Testing Laboratory
3787

RADIO TEST REPORT

FCC ID	:	N89-75W311AV1
Equipment	:	BE5000 Wireless Dual Band Wall Mount Access Point
Brand Name	:	SonicFi
Model Name	:	RAP750W-311A
Applicant	:	CyberTAN Technology Inc. No. 99, Park Avenue III Science-based Industrial Park Hsinchu Taiwan 308
Manufacturer	:	CyberTAN Technology Inc. No. 99, Park Avenue III Science-based Industrial Park Hsinchu Taiwan 308
Standard	:	47 CFR FCC Part 15.407

The product was received on Aug. 19, 2024, and testing was started from Aug. 20, 2024 and completed on Oct. 31, 2024. 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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History of this test report

Report No.	Version	Description	Issued Date
FR471503AD	01	Initial issue of report	Dec. 20, 2024

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 EIRP Output Power	PASS	-
3.4	15.407(a)	EIRP 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/manufacturer 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: Muse Chan

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5895	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5845-5885	169-177 [3]
5725-5895	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5835-5875	167-175 [2]
5725-5895	ac (VHT80), ax (HEW80), be (EHT80)	5855	171 [1]
5725-5895	ac (VHT160), ax (HEW160), be (EHT160)	5815	163 [1]

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11a	20	2TX
5.725-5.895GHz	802.11n HT20	20	2TX
5.725-5.895GHz	802.11n HT20-BF	20	2TX
5.725-5.895GHz	802.11ac VHT20	20	2TX
5.725-5.895GHz	802.11ac VHT20-BF	20	2TX
5.725-5.895GHz	802.11ax HEW20	20	2TX
5.725-5.895GHz	802.11ax HEW20-BF	20	2TX
5.725-5.895GHz	802.11be EHT20	20	2TX
5.725-5.895GHz	802.11be EHT20-BF	20	2TX
5.725-5.895GHz	802.11n HT40	40	2TX
5.725-5.895GHz	802.11n HT40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT40	40	2TX
5.725-5.895GHz	802.11ac VHT40-BF	40	2TX
5.725-5.895GHz	802.11ax HEW40	40	2TX
5.725-5.895GHz	802.11ax HEW40-BF	40	2TX
5.725-5.895GHz	802.11be EHT40	40	2TX
5.725-5.895GHz	802.11be EHT40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT80	80	2TX
5.725-5.895GHz	802.11ac VHT80-BF	80	2TX
5.725-5.895GHz	802.11ax HEW80	80	2TX
5.725-5.895GHz	802.11ax HEW80-BF	80	2TX
5.725-5.895GHz	802.11be EHT80	80	2TX

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11be EHT80-BF	80	2TX
5.725-5.895GHz	802.11ac VHT160	160	2TX
5.725-5.895GHz	802.11ac VHT160-BF	160	2TX
5.725-5.895GHz	802.11ax HEW160	160	2TX
5.725-5.895GHz	802.11ax HEW160-BF	160	2TX
5.725-5.895GHz	802.11be EHT160	160	2TX
5.725-5.895GHz	802.11be EHT160-BF	160	2TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80 and EHT160 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	Antenna Type	Connector	Gain (dBi)
	BT	2.4GHz	5GHz					
1	-	1	1	GALTRONICS	02102140-08076-1	PCB Antenna	I-PEX	Note 1
2	-	2	2	GALTRONICS	02102140-08076-2	PCB Antenna	I-PEX	
3	1	-	-	GALTRONICS	02102073-08076	PCB Antenna	I-PEX	

Note 1:

Ant.	Gain (dBi)						
	Bluetooth	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	5GHz UNII 4
1	-	2.69	2.75	2.39	2.65	3.33	3.33
2	-	2.03	2.91	3.22	3.19	2.85	2.85
3	1.78	-	-	-	-	-	-

Note 2: The above information was declared by manufacturer.
Note 3: BT represents Bluetooth.

Note 4: Directional gain information

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

Ex.

Directional Gain (NSS1) formula : $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$

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

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

Where ;

2.4G G1= 2.69 dBi ;G2= 2.03 dBi ;

5G UNII-1 G1 = 2.75 dBi; G2 = 2.91 dBi;

5G UNII-2A G1 = 2.39 dBi; G2 = 3.22 dBi;

5G UNII-2C G1 = 2.65 dBi; G2 = 3.19 dBi;

5G UNII-3 G1 = 3.33 dBi; G2 = 2.85 dBi;

5G UNII-4 G1 = 3.33 dBi; G2 = 2.85 dBi;

2.4G DG = 5.38 dBi

5G UNII-1 DG = 5.84 dBi

5G UNII-2A DG = 5.83 dBi

5G UNII-2C DG = 5.93 dB

5G UNII-3 DG = 6.10 dBi

5G UNII-4 DG = 6.10 dBi

Note 5: **For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax/be (2TX/2RX):

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

Port 1~2 could transmit/receive simultaneously.

For 5GHz function:

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

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

Port 1~2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss 1,(6D)	0.993	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20-BF_Nss 1,(M0)	0.954	0.2	3.763m	300
802.11be EHT40-BF_Nss 1,(M0)	0.959	0.18	3.713m	300
802.11be EHT80-BF_Nss 1,(M0)	0.958	0.19	3.9m	300
802.11be EHT160-BF_Nss 1,(M0)	0.96	0.18	3.988m	300

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz and n/ac/ax/be in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Device Type	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client		
Channel Puncturing Function	☐	Supported Static Puncturing		
	☐	Supported Dynamic Puncturing		
	☒	Unsupported		
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For Non-beamforming mode: QRCT V4.1 For Beamforming mode: DOS V6.1.7601			

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
- FCC KDB 291074 D02 v01

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	TH03-CB	Owen Hsu	22.3~24.1 / 60~63	Aug. 27, 2024~ Oct. 31, 2024
Radiated (below 1G)	03CH03-CB	Jackson Pong	22.2-22.6 / 59-61	Aug. 20, 2024~ Oct. 30, 2024
	03CH05-CB		21.6-22.7 / 56-59	
Radiated (above 1G)	03CH01-CB		22.1-23.1 / 60-62	
	03CH02-CB		22-23 / 61-63	
	03CH03-CB		22.2-22.6 / 59-61	
Radiated (co-location emission)	03CH03-CB		22.2-22.6 / 59-61	
AC Conduction	CO01-CB	Ryan Huang	23~24 / 55~56	Aug. 22, 2024

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)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11a_Nss1,(6Mbps)_2TX
5845MHz
5865MHz
5885MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5845MHz
5865MHz
5885MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5835MHz
5875MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5855MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
5815MHz

Note:
- EHT20 / EHT40 / EHT80 / EHT160 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW160 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW160 is the same or lower than EHT20 / EHT40 / EHT80 / EHT160.
- The EUT supports non-beamforming and beamforming modes. After evaluating, the beamforming mode was selected to test.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + PoE 1

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + PoE 2_WLAN 2.4GHz
2	EUT in Y axis + PoE 2_WLAN 5GHz
3	EUT in Y axis + PoE 2_Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis_WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA471503 for Co-location RF Exposure Evaluation.	

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

Support Unit	Brand	Model
PoE 1	DELTA	ADH-65AR N
PoE 2	DELTA	ADH-90AR B

2.3 EUT Operation during Test

For CTX Mode:
non-beamforming mode:
The EUT was programmed to be in continuously transmitting mode.

beamforming mode:
For Conducted Mode:
The EUT was programmed to be in continuously transmitting mode.
For Radiated Mode:
During the test, the following programs under WIN 7 were executed.
The program was executed as follows:
1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS V6.1.7601.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Device and transmit duty cycle no less than 98%.

For Normal Link:
During the test, the EUT operation to normal function.

2.4 Accessories

Wall-mounted rack*1

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE 1	DELTA	ADH-65AR N	N/A
B	PoE PC	DELL	OPTIPLEX 3010	N/A
C	LAN PC	DELL	OPTIPLEX 3010	N/A
D	Device	SonicFi	RAP750W-311A	N89-75W311AV1
E	Device PC	DELL	OPTIPLEX 3010	N/A
F	Smart Phone	Samsung	Galaxy J2	N/A
G	2.4G NB	DELL	E6430	N/A
H	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz) and Radiated (above 1GHz) <Non-beamforming mode>:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E6230	N/A
B	PoE 2	DELTA	ADH-90AR B	N/A

For Radiated (above 1GHz) <Beamforming mode>:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E6230	N/A
B	PoE 2	DELTA	ADH-90AR B	N/A
C	Device	SonicFi	RAP750W-311A	N89-75W311AV1
D	Notebook	DELL	E6230	N/A

For RF Conducted:
<Non-beamforming mode>

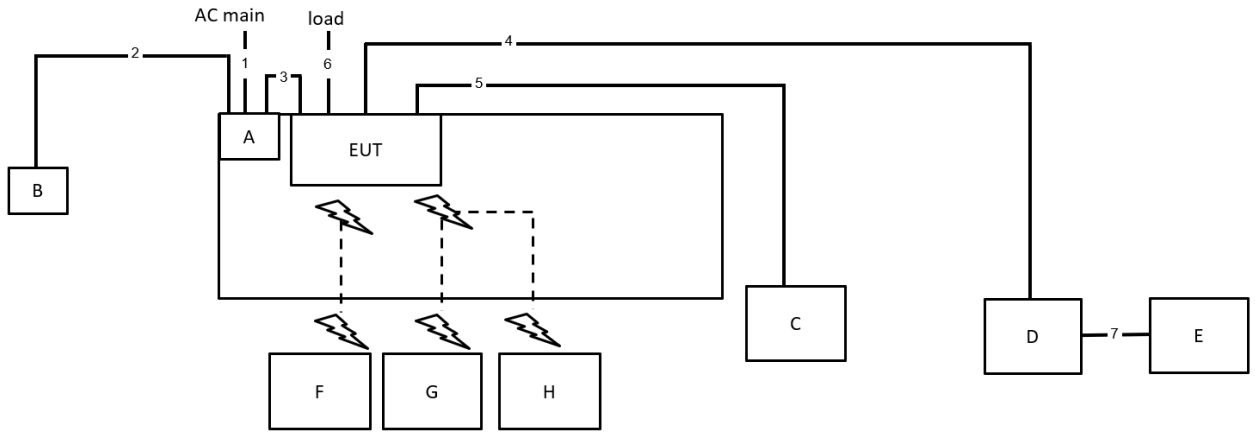
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

<Beamforming mode>:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Device	SonicFi	RAP750W-311A	N89-75W311AV1
C	Notebook	DELL	E4300	N/A

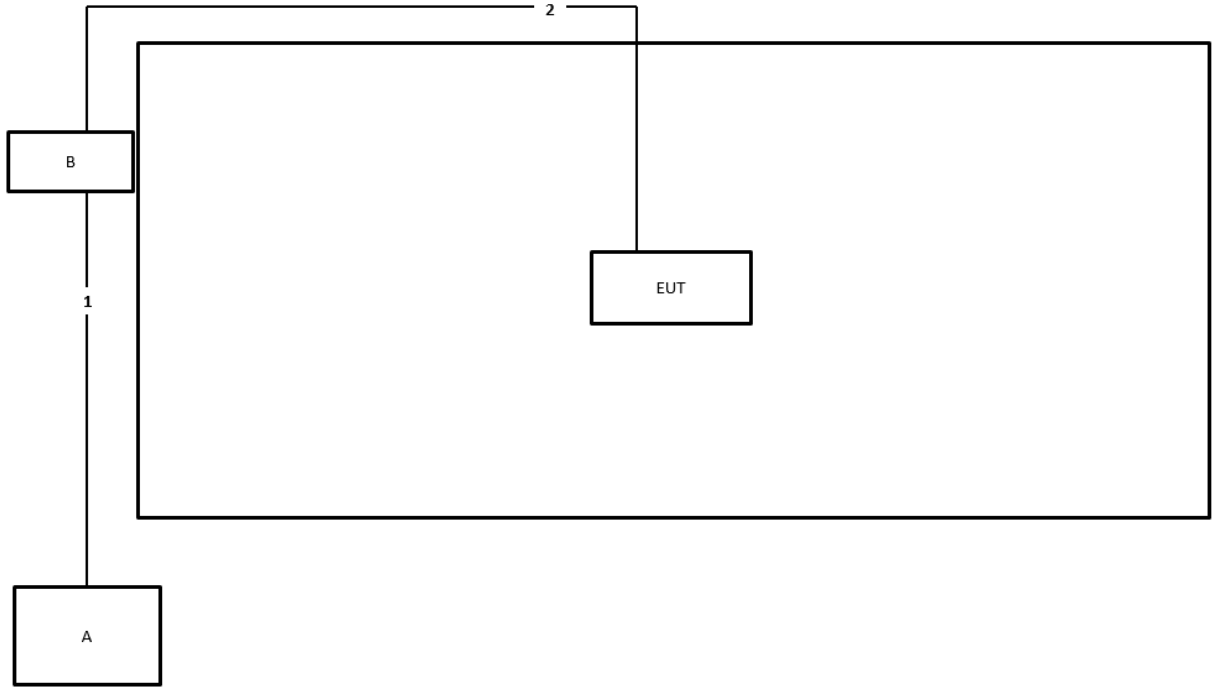
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



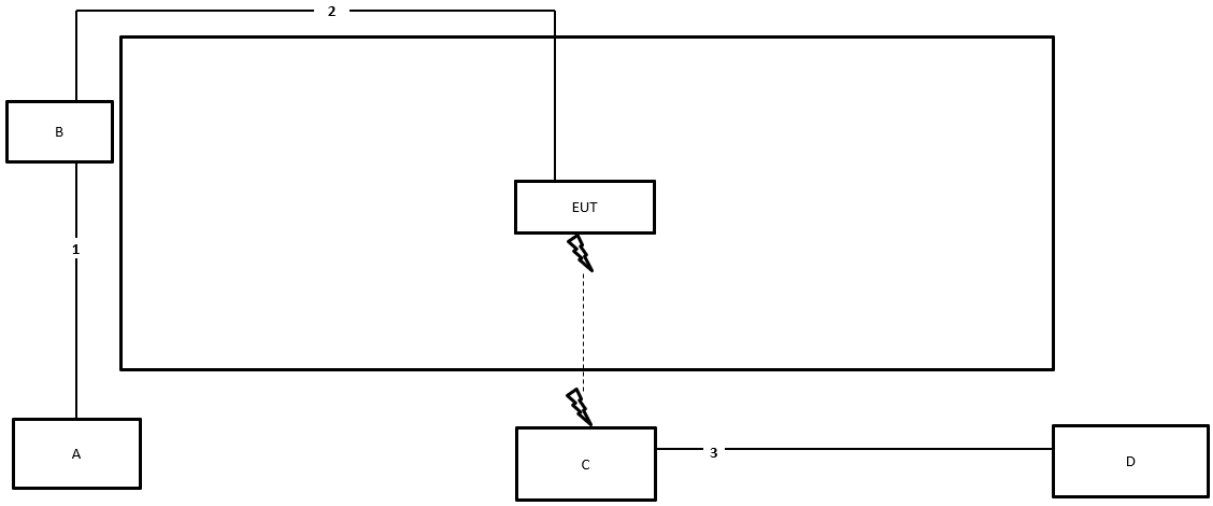
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	10m
6	RJ-45 cable	No	1.5m
7	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz and > 1GHz <Non-beamforming mode>



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

Test Setup Diagram - Radiated Test > 1GHz <Beamforming mode>



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

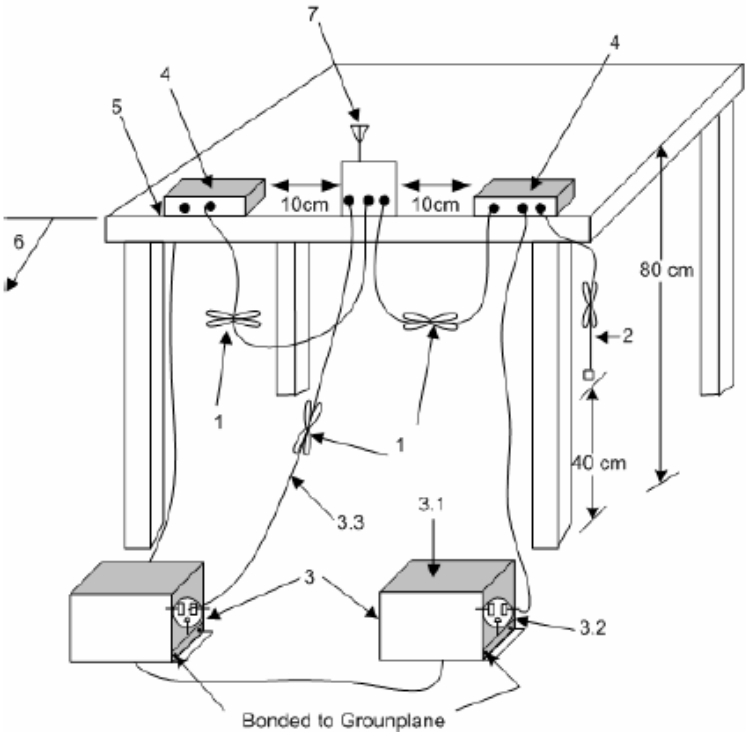
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit
UNII Devices
☒ For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices
☐ For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.

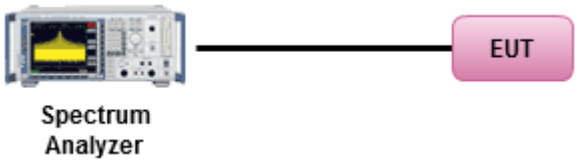
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ 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

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum EIRP Output Power

3.3.1 Limit

Maximum EIRP Output Power Limit	
UNII Devices	
☒ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm
LE-LAN Devices	
☐ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Indoor client device < 30 dBm
	▪ Fixed outdoor AP device < 36 dBm
	▪ Fixed outdoor client device < 30 dBm

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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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

Conducted Measurement (Power Meter)


3.3.5 Test Result of Maximum EIRP Output Power

Refer as Appendix C

3.4 EIRP Power Spectral Density

3.4.1 Limit

EIRP Power Spectral Density Limit	
UNII Devices	
☒ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz
LE-LAN Devices	
☐ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20 dBm/MHz
	▪ Indoor client device < 14 dBm/MHz
	▪ Fixed outdoor AP device < 23 dBm/MHz
	▪ Fixed outdoor client device < 17 dBm/MHz

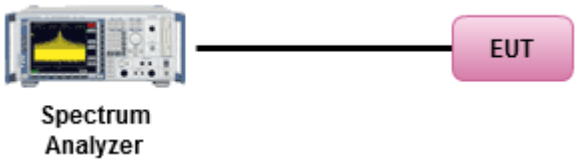
3.4.2 Measuring Instruments

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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (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”
	▪ 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

Conducted Measurement


3.4.5 Test Result of EIRP 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**
☒ UNII Devices 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
☐ LE-LAN Devices 5.85 - 5.895 GHz	(i) Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge. (ii) Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz. (iii) Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.
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.

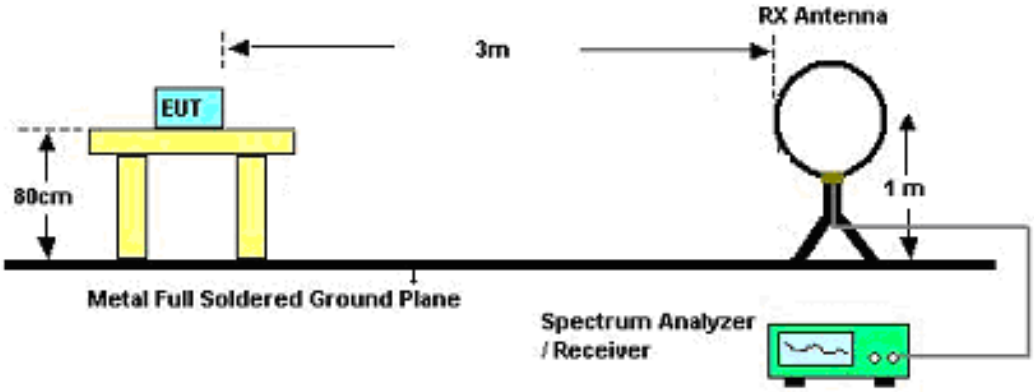
3.5.3 Test Procedures

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 ≥ 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 ≥ 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.		

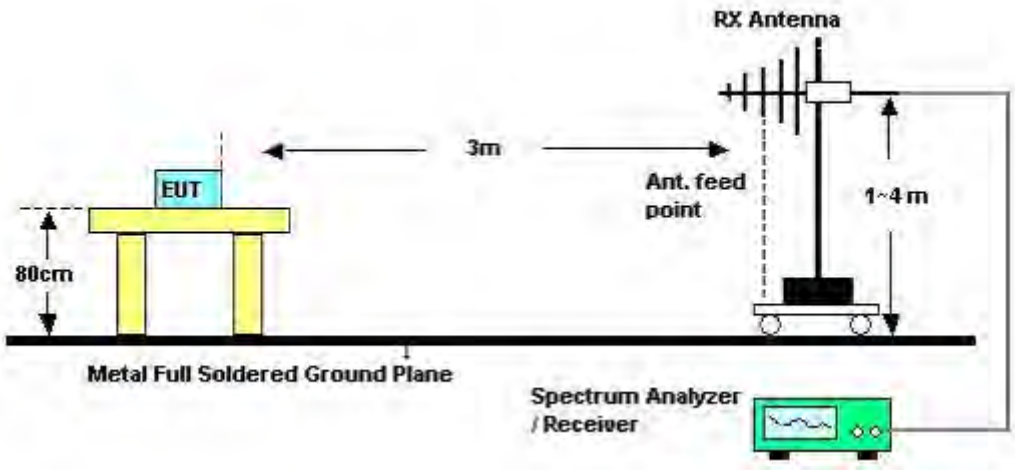
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

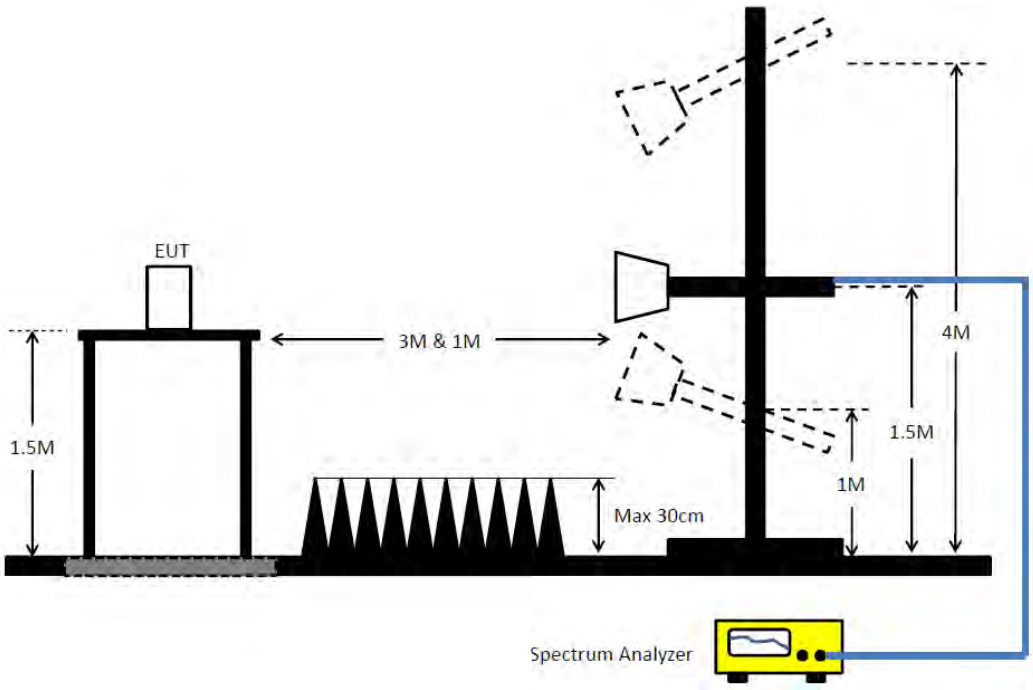
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenator	Schaffner & EMCI	CBL6112B& N-6-06	2888&AT-N0605	30MHz ~ 1GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS·Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2024	Jan. 23, 2025	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH03-CB)
Amplifier	SGH	SGH301	20240606-1	30MHz ~ 1GHz	Jun. 04, 2024	Jun. 03, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Feb. 29, 2024	Feb. 28, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-1524 7_DTS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 01, 2024	Jul. 31, 2025	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-15247_DTS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 09, 2024	Jul. 08, 2025	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Aug. 14, 2024	Aug. 13, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 22, 2023	Dec. 21, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

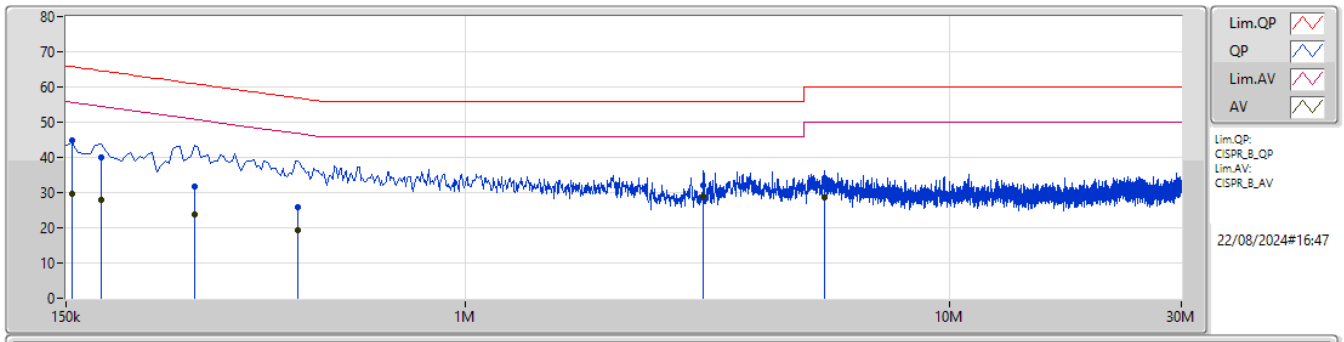
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

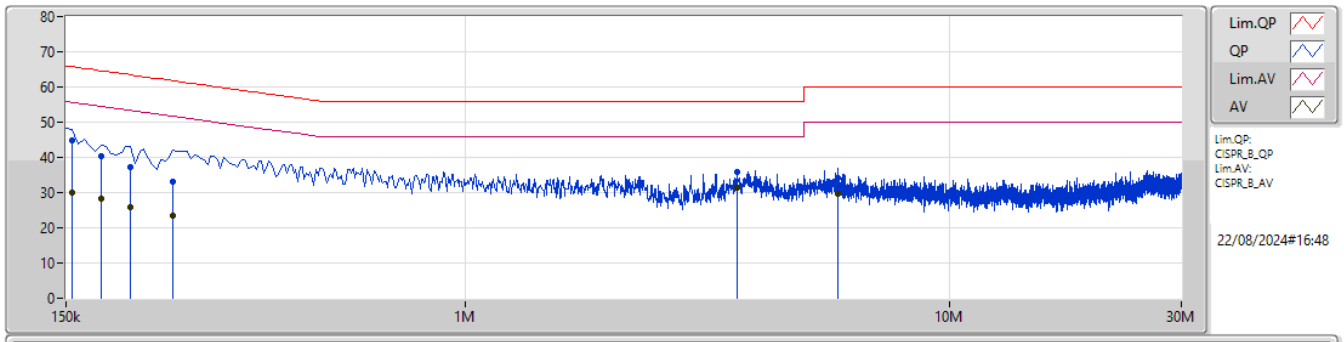
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	3.633M	31.44	46.00	-14.56	Neutral

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	44.70	65.75	-21.05	9.92	Line	-	34.78	0.04	0.02	9.86
AV	154.5k	29.62	55.75	-26.13	9.92	Line	-	19.70	0.04	0.02	9.86
QP	177k	40.13	64.62	-24.49	9.92	Line	-	30.21	0.04	0.02	9.86
AV	177k	28.05	54.62	-26.57	9.92	Line	-	18.13	0.04	0.02	9.86
QP	276k	31.58	60.93	-29.35	9.93	Line	-	21.65	0.04	0.02	9.87
AV	276k	23.93	50.93	-27.00	9.93	Line	-	14.00	0.04	0.02	9.87
QP	451.5k	25.93	56.84	-30.91	9.96	Line	-	15.97	0.05	0.02	9.89
AV	451.5k	19.14	46.84	-27.70	9.96	Line	-	9.18	0.05	0.02	9.89
QP	3.102M	32.09	56.00	-23.91	10.13	Line	-	21.96	0.12	0.11	9.90
AV	3.102M	29.13	46.00	-16.87	10.13	Line	"Worst"	19.00	0.12	0.11	9.90
QP	5.505M	33.98	60.00	-26.02	10.20	Line	-	23.78	0.16	0.14	9.90
AV	5.505M	28.77	50.00	-21.23	10.20	Line	-	18.57	0.16	0.14	9.90

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	44.95	65.75	-20.80	9.94	Neutral	-	35.01	0.06	0.02	9.86
AV	154.5k	29.98	55.75	-25.77	9.94	Neutral	-	20.04	0.06	0.02	9.86
QP	177k	40.39	64.62	-24.23	9.94	Neutral	-	30.45	0.06	0.02	9.86
AV	177k	28.22	54.62	-26.40	9.94	Neutral	-	18.28	0.06	0.02	9.86
QP	204k	37.15	63.44	-26.29	9.93	Neutral	-	27.22	0.06	0.02	9.85
AV	204k	25.78	53.44	-27.66	9.93	Neutral	-	15.85	0.06	0.02	9.85
QP	249k	33.18	61.79	-28.61	9.94	Neutral	-	23.24	0.06	0.02	9.86
AV	249k	23.59	51.79	-28.20	9.94	Neutral	-	13.65	0.06	0.02	9.86
QP	3.633M	35.87	56.00	-20.13	10.16	Neutral	-	25.71	0.13	0.13	9.90
AV	3.633M	31.44	46.00	-14.56	10.16	Neutral	"Worst"	21.28	0.13	0.13	9.90
QP	5.874M	34.00	60.00	-26.00	10.22	Neutral	-	23.78	0.18	0.14	9.90
AV	5.874M	29.67	50.00	-20.33	10.22	Neutral	-	19.45	0.18	0.14	9.90

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.445M	21.571M	21M6D1D	16.28M	16.844M
802.11be EHT20-BF_Nss1,(MCS0)_2TX	19.085M	22.339M	22M3D1D	18.975M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	38.28M	55.322M	55M3D1D	36.74M	38.781M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	77.44M	78.161M	78M2D1D	67.98M	77.961M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	157.96M	156.522M	157MD1D	157.08M	156.122M

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

Result

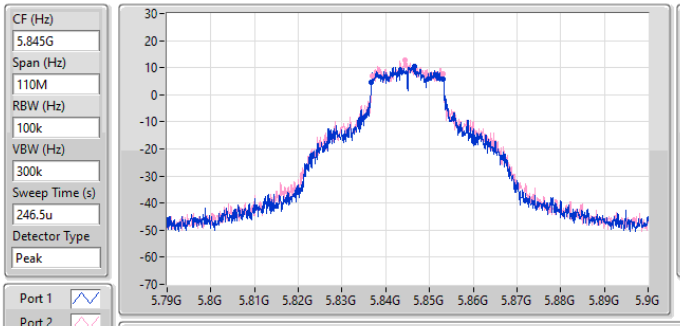
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5845MHz	Pass	500k	16.445M	20.538M	16.28M	21.571M
5865MHz	Pass	500k	16.39M	17.041M	16.28M	16.866M
5885MHz	Pass	500k	16.445M	16.844M	16.39M	17.239M
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5845MHz	Pass	500k	19.085M	21.239M	18.975M	22.339M
5865MHz	Pass	500k	19.03M	19.015M	19.085M	19.065M
5885MHz	Pass	500k	19.03M	19.04M	19.03M	19.09M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5835MHz	Pass	500k	38.06M	48.076M	38.06M	55.322M
5875MHz	Pass	500k	38.28M	38.781M	36.74M	39.03M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5855MHz	Pass	500k	67.98M	77.961M	77.44M	78.161M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5815MHz	Pass	500k	157.08M	156.122M	157.96M	156.522M

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

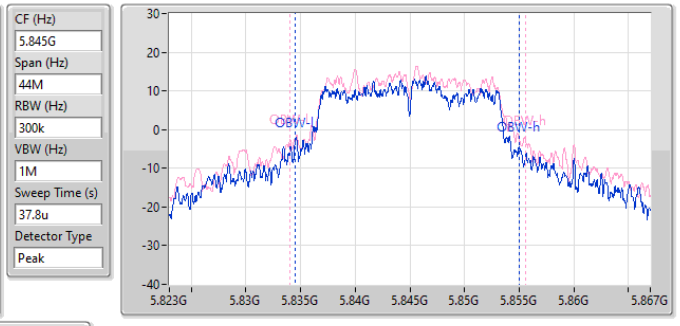
5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5845MHz

27/08/2024



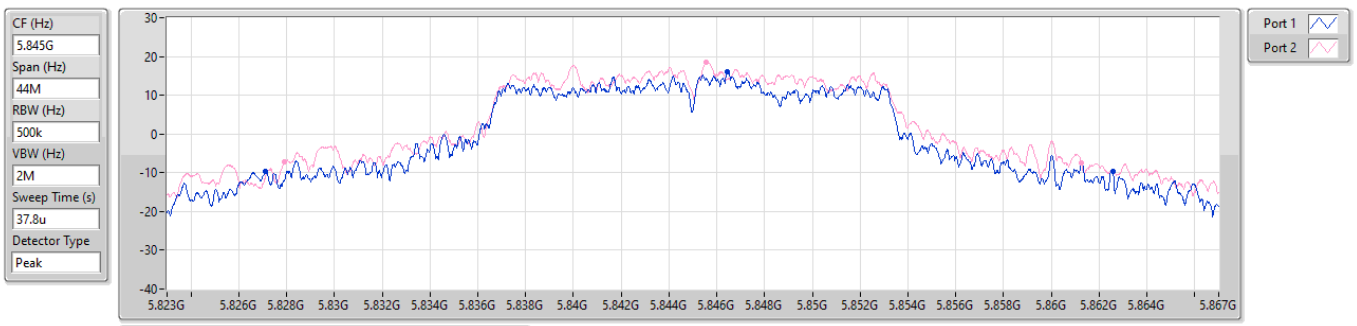
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.445M	5.83675G	5.853195G	20.538M	5.834467G	5.855005G	500k	1
16.28M	5.83686G	5.85314G	21.571M	5.834027G	5.855599G	500k	2



5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5845MHz

27/08/2024

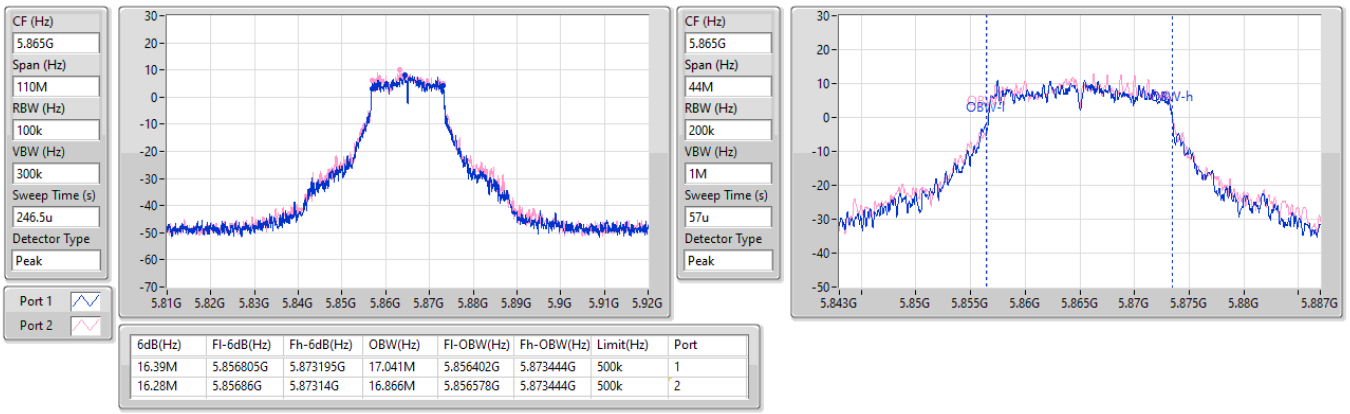


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
35.464M	5.827092G	5.862556G	Inf	1
33.352M	5.827906G	5.861258G	Inf	2

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5865MHz

27/08/2024

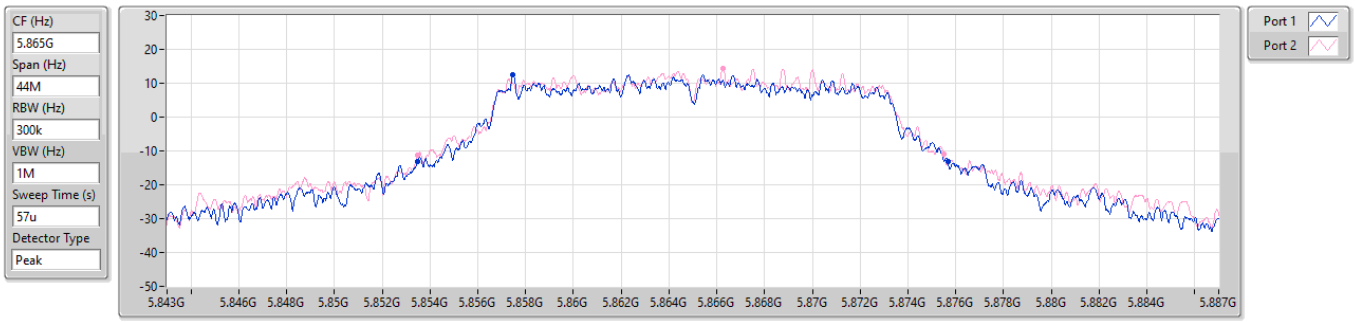


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.39M	5.856805G	5.873195G	17.041M	5.856402G	5.873444G	500k	1
16.28M	5.85686G	5.87314G	16.866M	5.856578G	5.873444G	500k	2

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5865MHz

27/08/2024

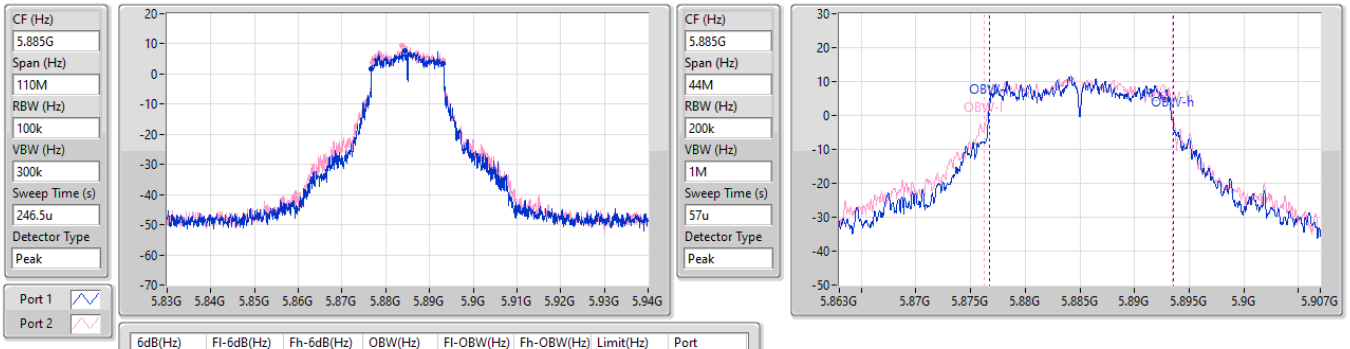


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.198M	5.853472G	5.87567G	Inf	1
22M	5.853494G	5.875494G	Inf	2

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5885MHz

27/08/2024

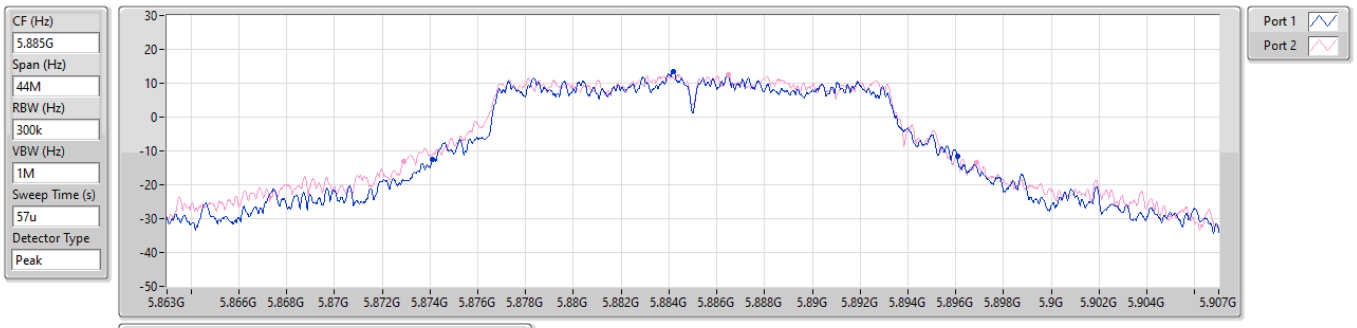


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.445M	5.87675G	5.893195G	16.844M	5.876688G	5.893532G	500k	1
16.39M	5.876805G	5.893195G	17.239M	5.87627G	5.89351G	500k	2

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5885MHz

27/08/2024

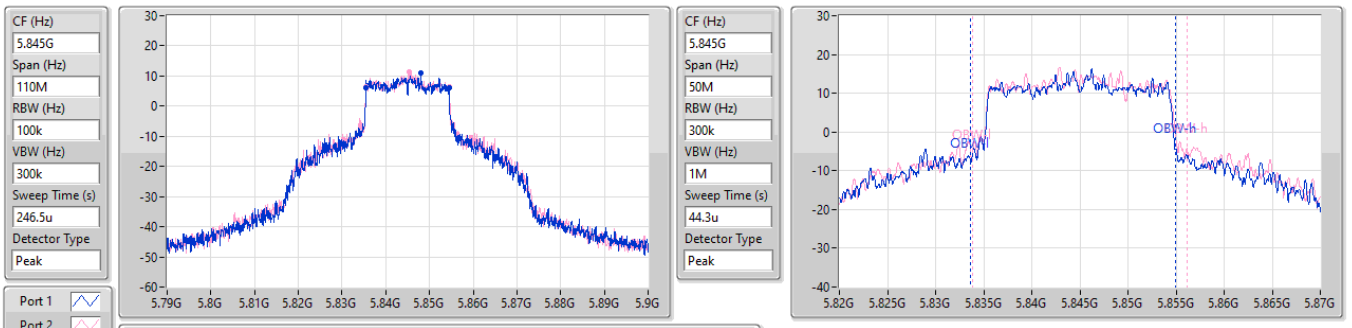


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.956M	5.87411G	5.896066G	Inf	1
23.958M	5.872922G	5.89688G	Inf	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5845MHz

27/08/2024

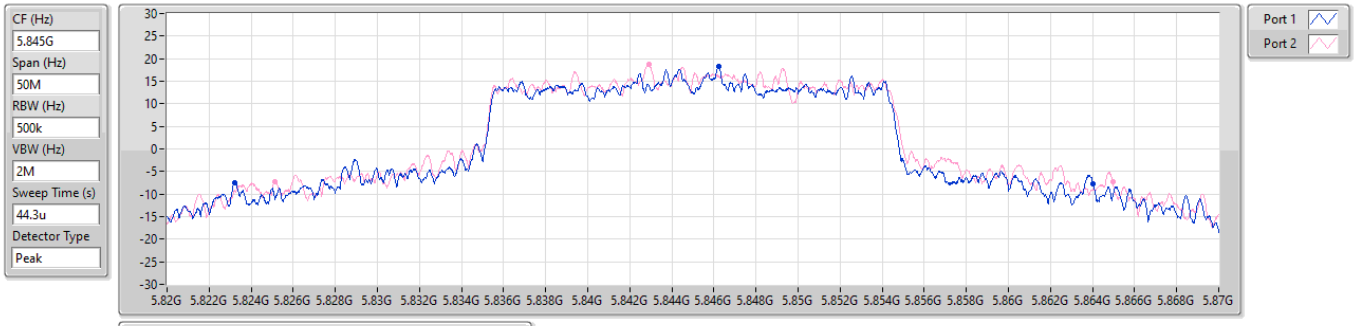


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.085M	5.83543G	5.854515G	21.239M	5.833681G	5.85492G	500k	1
18.975M	5.835485G	5.85446G	22.339M	5.833806G	5.856144G	500k	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5845MHz

27/08/2024

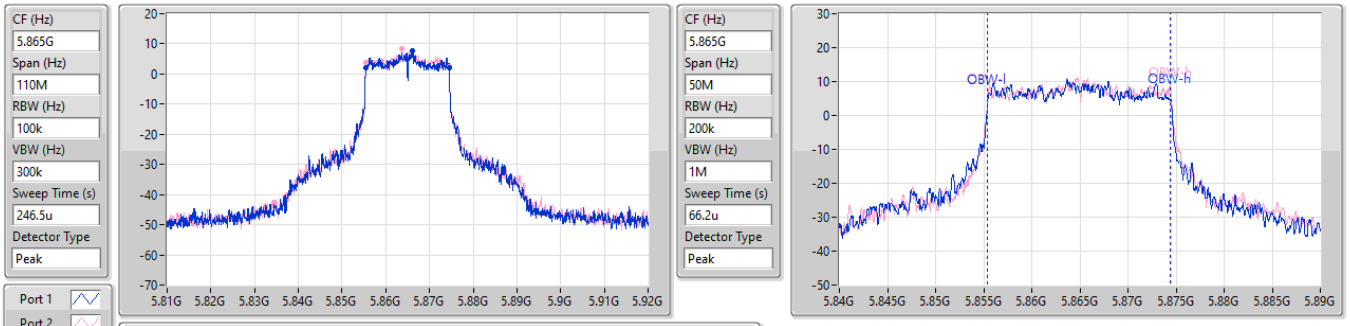


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
40.825M	5.8232G	5.864025G	Inf	1
39.825M	5.825125G	5.86495G	Inf	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5865MHz

27/08/2024

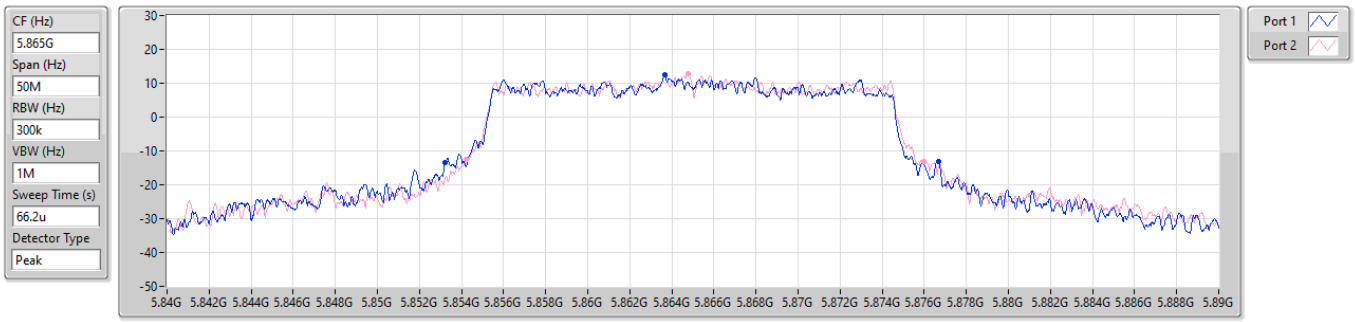


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.03M	5.855485G	5.874515G	19.015M	5.85543G	5.874445G	500k	1
19.085M	5.85543G	5.874515G	19.065M	5.85543G	5.874495G	500k	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5865MHz

27/08/2024

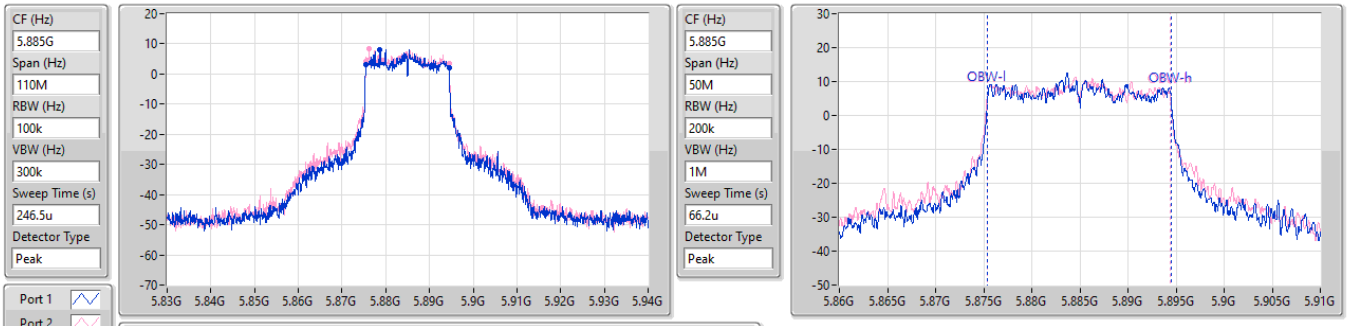


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
23.475M	5.853225G	5.8767G	Inf	1
21.8M	5.8542G	5.876G	Inf	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5885MHz

27/08/2024

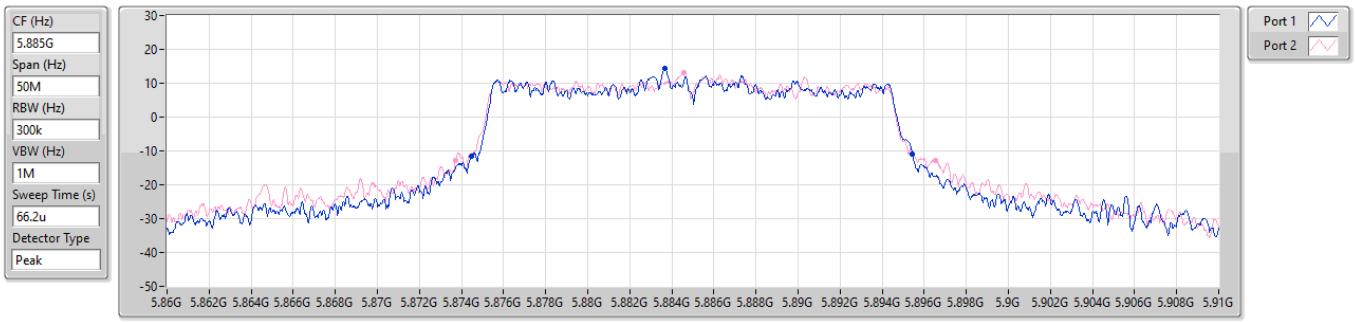


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.03M	5.87543G	5.89446G	19.04M	5.87543G	5.89447G	500k	1
19.03M	5.87543G	5.89446G	19.09M	5.875355G	5.894445G	500k	2

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **EBW**

5885MHz

27/08/2024

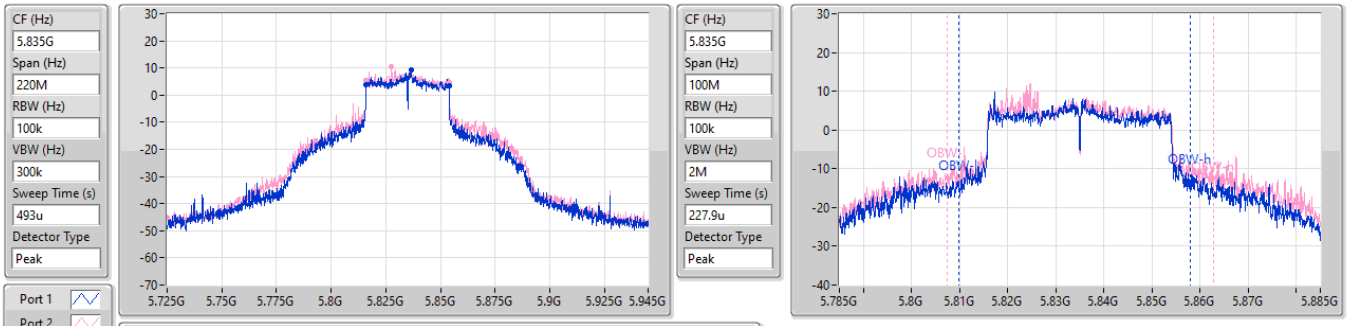


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21M	5.87445G	5.89545G	Inf	1
22.825M	5.873725G	5.89655G	Inf	2

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **EBW**

5835MHz

27/08/2024

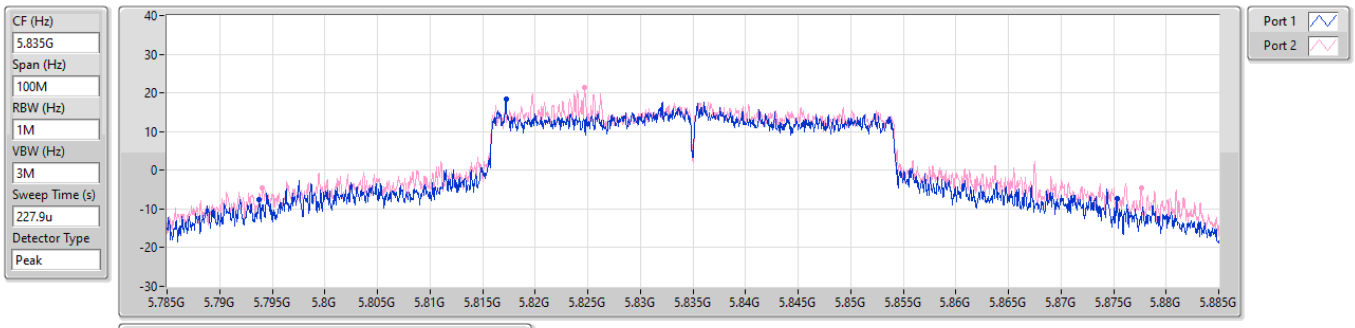


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.06M	5.81586G	5.85392G	48.076M	5.809813G	5.857889G	500k	1
38.06M	5.81597G	5.85403G	55.322M	5.807414G	5.862736G	500k	2

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **EBW**

5835MHz

27/08/2024

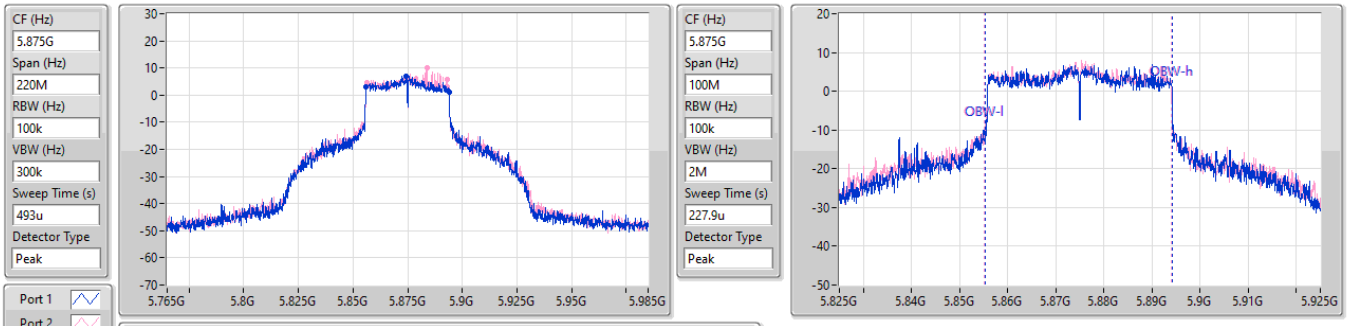


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
81.6M	5.79375G	5.87535G	Inf	1
83.6M	5.79405G	5.87765G	Inf	2

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **EBW**

5875MHz

27/08/2024

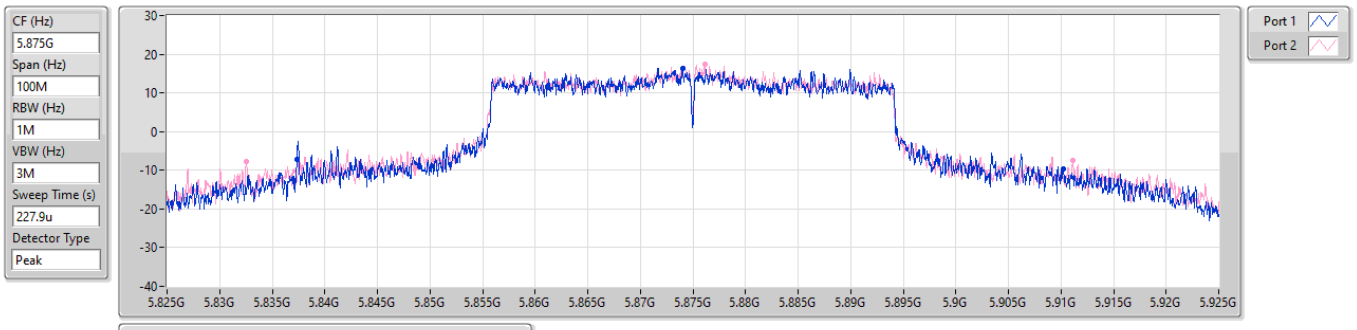


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.28M	5.85586G	5.89414G	38.781M	5.85536G	5.89414G	500k	1
36.74M	5.85619G	5.89293G	39.03M	5.85501G	5.89404G	500k	2

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **EBW**

5875MHz

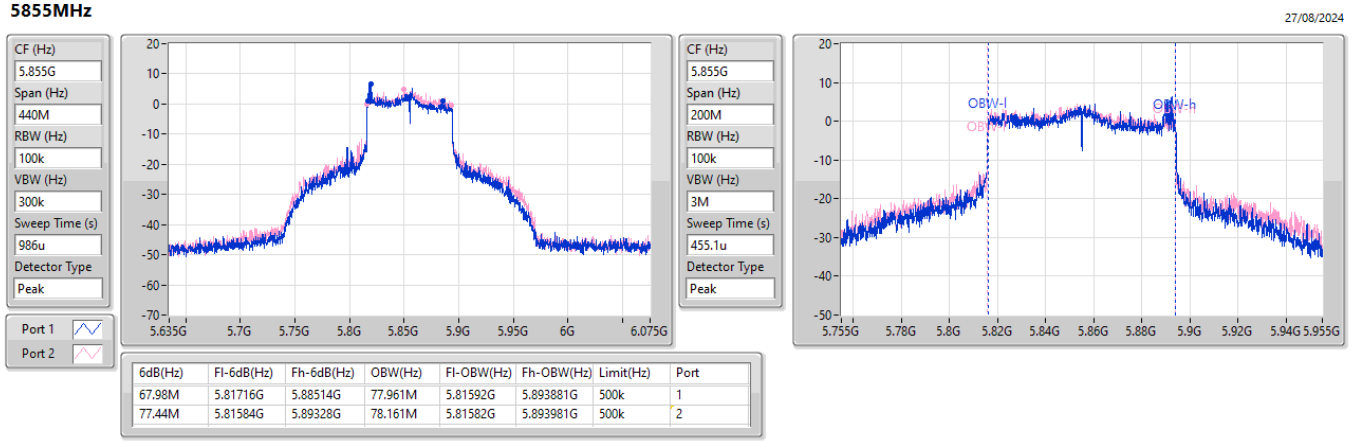
27/08/2024



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
72.85M	5.83735G	5.9102G	Inf	1
78.6M	5.8325G	5.9111G	Inf	2

5.725-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX **EBW**

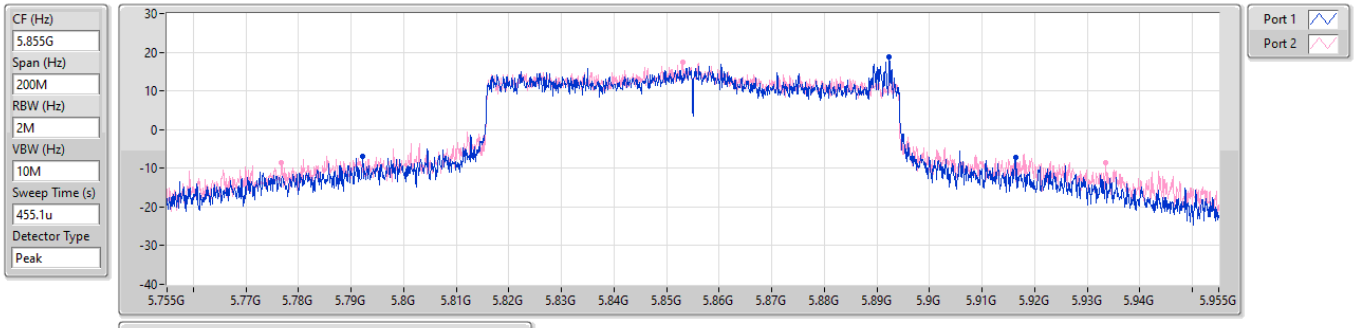
5855MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
67.98M	5.81716G	5.88514G	77.961M	5.81592G	5.893881G	500k	1
77.44M	5.81584G	5.89328G	78.161M	5.81582G	5.893981G	500k	2

5.725-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX **EBW**

5855MHz

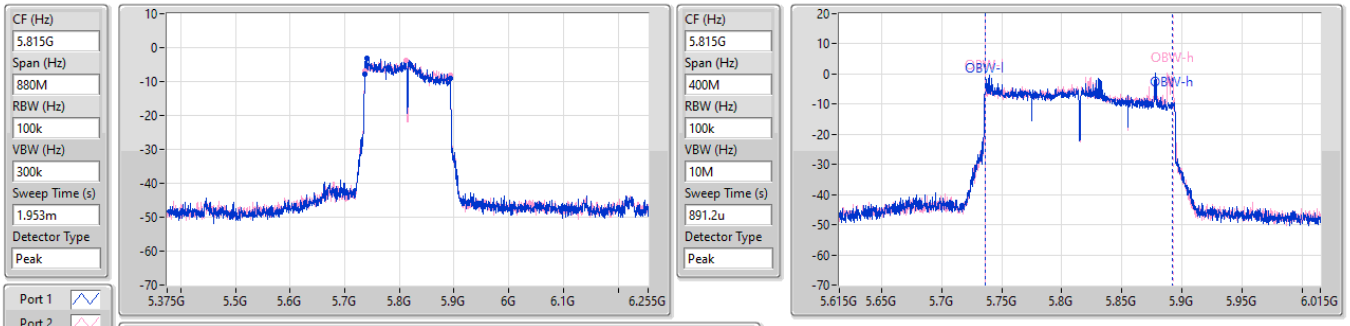


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
124.2M	5.7922G	5.9164G	Inf	1
156.6M	5.7768G	5.9334G	Inf	2

5.725-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX **EBW**

5815MHz

27/08/2024

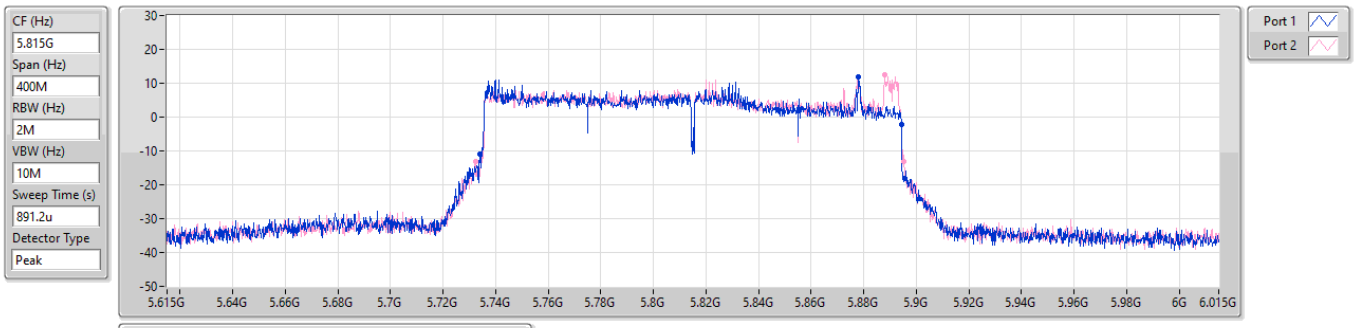


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
157.08M	5.7358G	5.89288G	156.122M	5.736239G	5.892361G	500k	1
157.96M	5.7358G	5.89376G	156.522M	5.736439G	5.892961G	500k	2

5.725-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX **EBW**

5815MHz

27/08/2024



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
160.4M	5.7338G	5.8942G	Inf	1
163M	5.7322G	5.8952G	Inf	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.60	0.57544	30.93	1.23880
802.11be EHT20-BF_Nss1,(MCS0)_2TX	27.84	0.60814	33.94	2.47742
802.11be EHT40-BF_Nss1,(MCS0)_2TX	28.02	0.63387	34.12	2.58226
802.11be EHT80-BF_Nss1,(MCS0)_2TX	26.96	0.49659	33.06	2.02302
802.11be EHT160-BF_Nss1,(MCS0)_2TX	22.06	0.16069	28.16	0.65464

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	3.33	24.27	24.89	27.60	30.93	36.00
5865MHz	Pass	3.33	21.85	22.53	25.21	28.54	36.00
5885MHz	Pass	3.33	21.80	22.76	25.32	28.65	36.00
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.10	24.61	25.04	27.84	33.94	36.00
5865MHz	Pass	6.10	21.75	22.23	25.01	31.11	36.00
5885MHz	Pass	6.10	21.59	21.60	24.61	30.71	36.00
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5835MHz	Pass	6.10	24.60	25.38	28.02	34.12	36.00
5875MHz	Pass	6.10	24.04	24.36	27.21	33.31	36.00
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5855MHz	Pass	6.10	23.62	24.26	26.96	33.06	36.00
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5815MHz	Pass	6.10	18.99	19.11	22.06	28.16	36.00

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	13.86	19.96
802.11be EHT20-BF_Nss1,(MCS0)_2TX	13.10	19.20
802.11be EHT40-BF_Nss1,(MCS0)_2TX	12.22	18.32
802.11be EHT80-BF_Nss1,(MCS0)_2TX	9.11	15.21
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-2.80	3.30

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

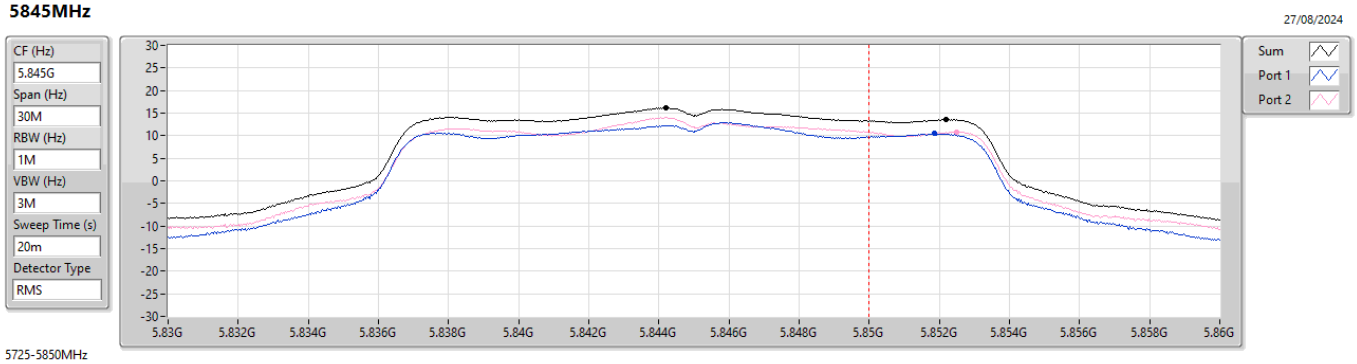
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.10	10.47	10.89	13.56	19.66	20.00
5865MHz	Pass	6.10	10.12	11.56	13.77	19.87	20.00
5885MHz	Pass	6.10	10.07	11.69	13.86	19.96	20.00
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.10	9.75	10.51	13.10	19.20	20.00
5865MHz	Pass	6.10	9.42	10.01	12.72	18.82	20.00
5885MHz	Pass	6.10	9.40	10.34	12.87	18.97	20.00
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5835MHz	Pass	6.10	6.64	7.72	10.15	16.25	20.00
5875MHz	Pass	6.10	8.84	9.63	12.22	18.32	20.00
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5855MHz	Pass	6.10	5.77	6.42	9.11	15.21	20.00
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5815MHz	Pass	6.10	-5.81	-5.52	-2.80	3.30	20.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

5845MHz



5725-5850MHz

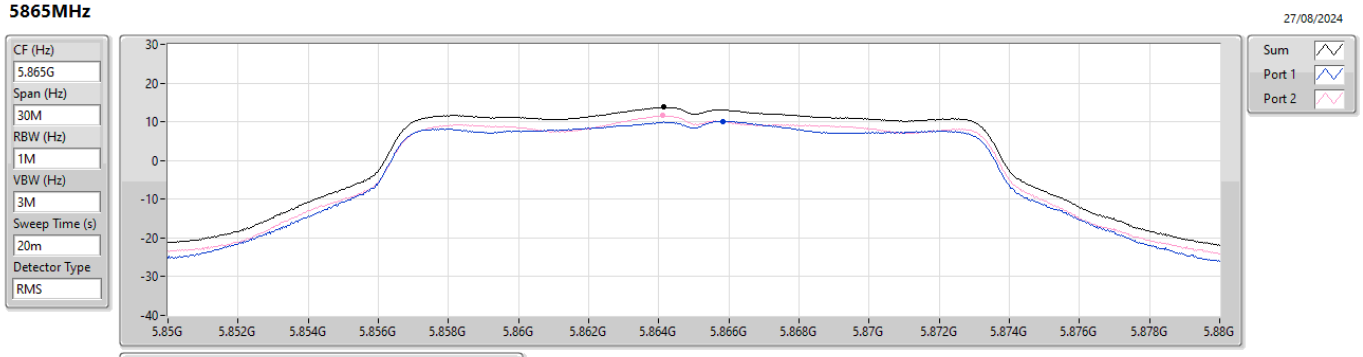
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
16.24	13.23	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.56	13.56	10.47	10.89

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

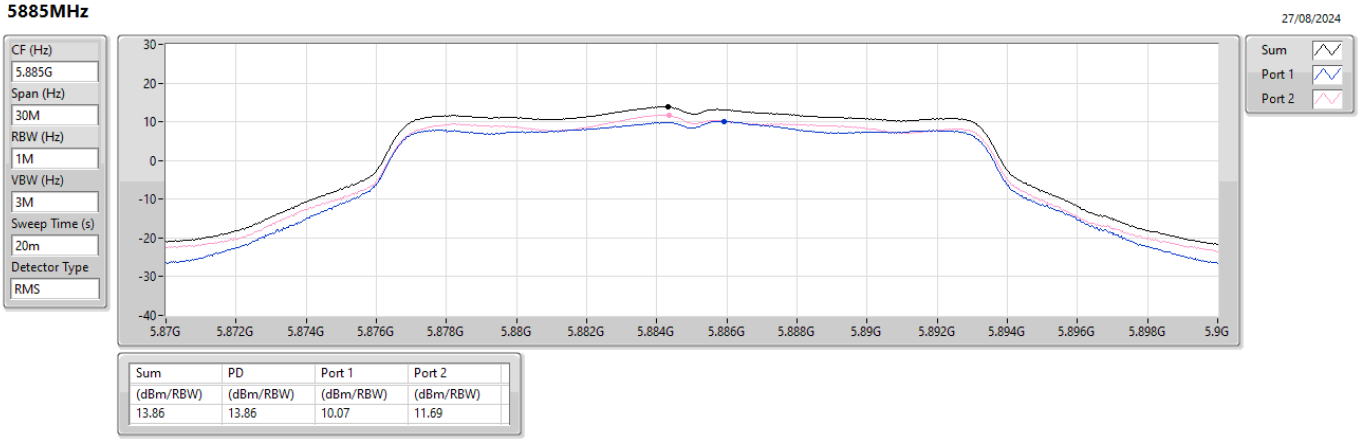
5865MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.77	13.77	10.12	11.56

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

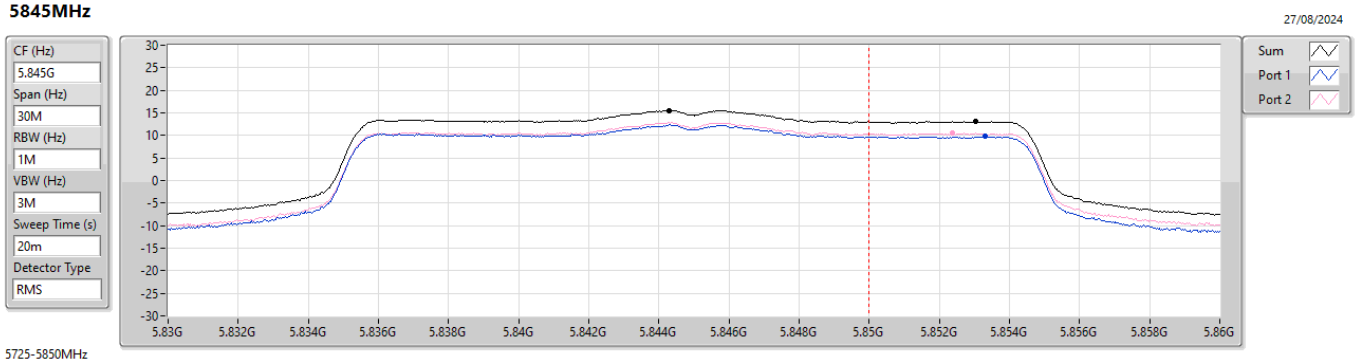
5885MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.86	13.86	10.07	11.69

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **PSD**

5845MHz



5725-5850MHz

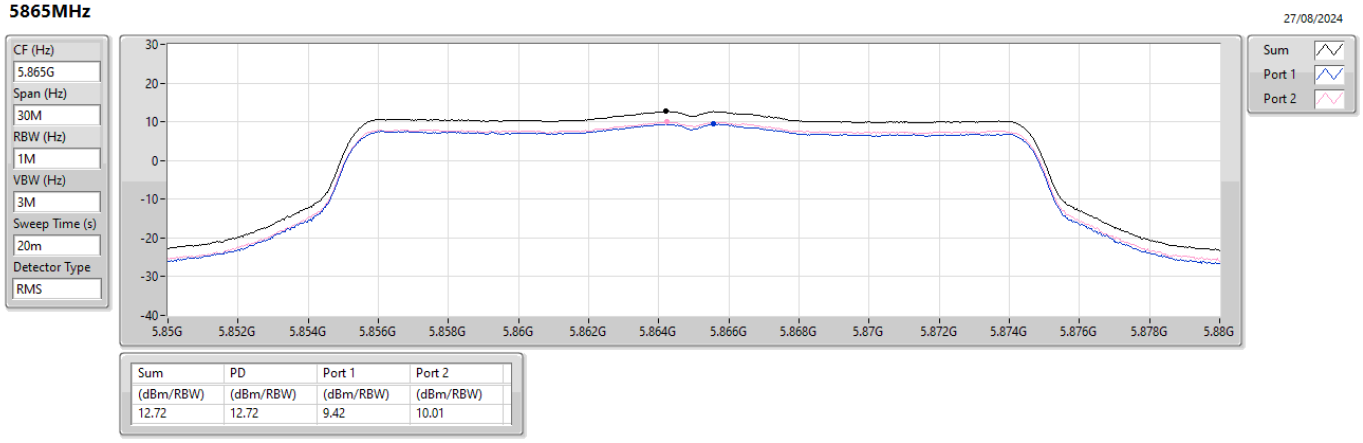
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
15.58	12.57	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.10	13.10	9.75	10.51

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **PSD**

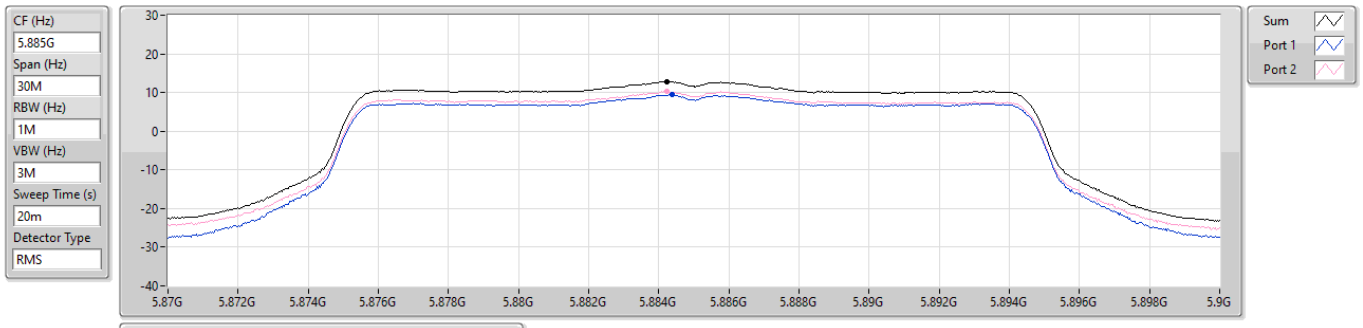
5865MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.72	12.72	9.42	10.01

5.725-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX **PSD**

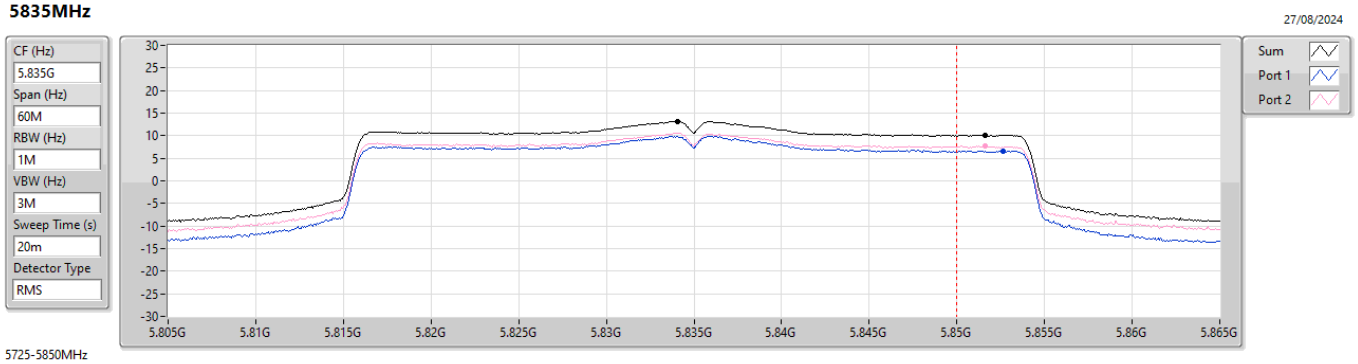
5885MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.87	12.87	9.40	10.34

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **PSD**

5835MHz



5725-5850MHz

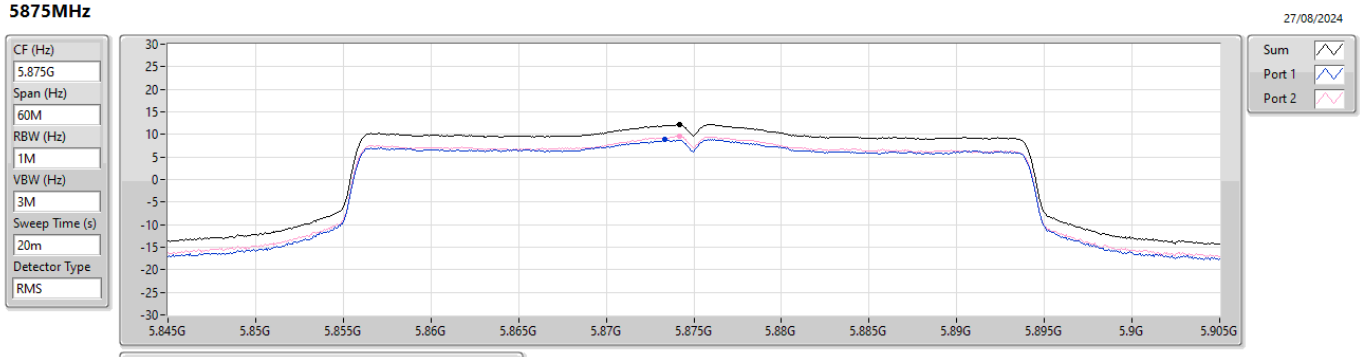
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
13.17	10.16	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.15	10.15	6.64	7.72

5.725-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX **PSD**

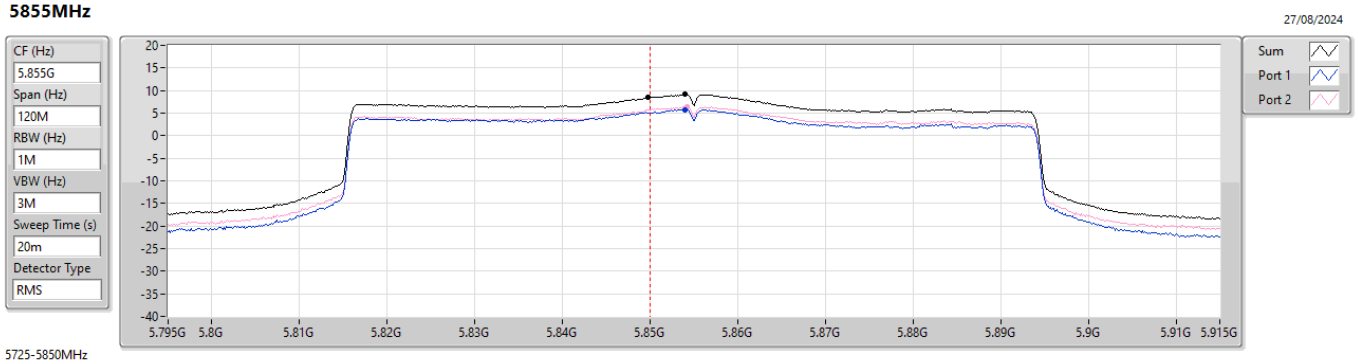
5875MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.22	12.22	8.84	9.63

5.725-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX **PSD**

5855MHz



5725-5850MHz

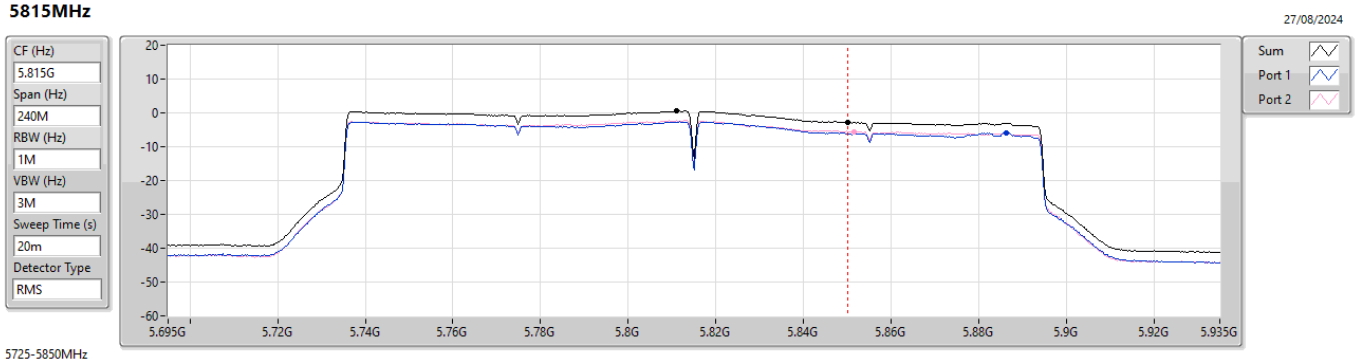
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
8.43	5.42	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.11	9.11	5.77	6.42

5.725-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX **PSD**

5815MHz



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
0.50	-2.51	500k	-3.01

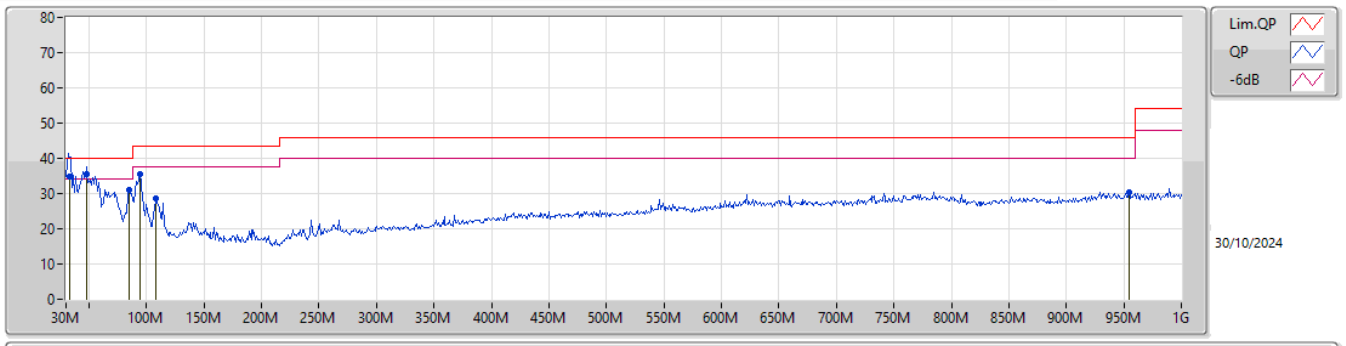
5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.80	-2.80	-5.81	-5.52

Summary

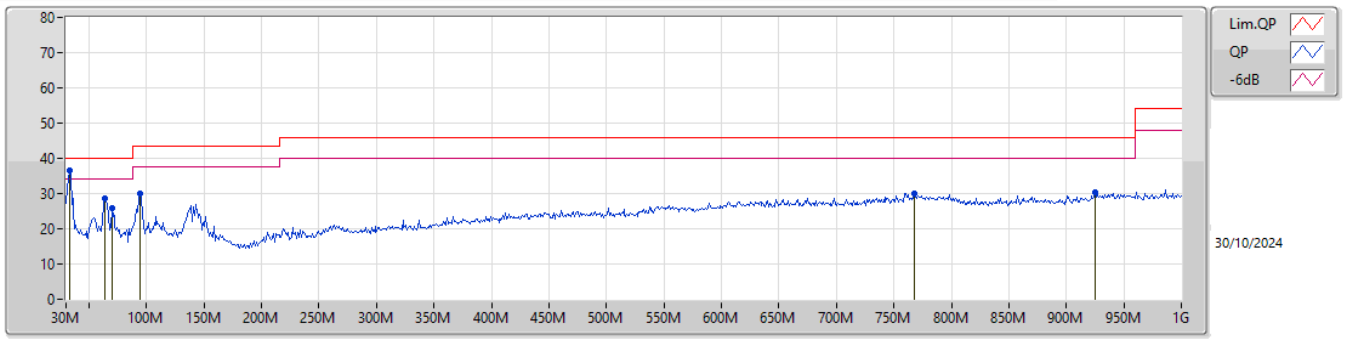
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	32.91M	36.57	40.00	-3.43	Horizontal

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
QP	32.91M	34.90	40.00	-5.10	-9.17	3	Vertical	210	1.00	-	44.07	22.68	0.56	32.41
PK	48.43M	35.42	40.00	-4.58	-16.94	3	Vertical	1	1.00	"Worst"	52.36	14.74	0.66	32.34
PK	85.29M	31.04	40.00	-8.96	-17.60	3	Vertical	138	1.50	-	48.64	13.80	0.98	32.38
PK	94.02M	35.60	43.50	-7.90	-15.89	3	Vertical	283	1.25	-	51.49	15.49	1.00	32.38
PK	108.57M	28.63	43.50	-14.87	-13.85	3	Vertical	168	1.25	-	42.48	17.46	1.02	32.33
PK	954.41M	30.27	46.00	-15.73	-0.72	3	Vertical	186	2.00	-	30.99	26.63	3.08	30.43

Mode 1



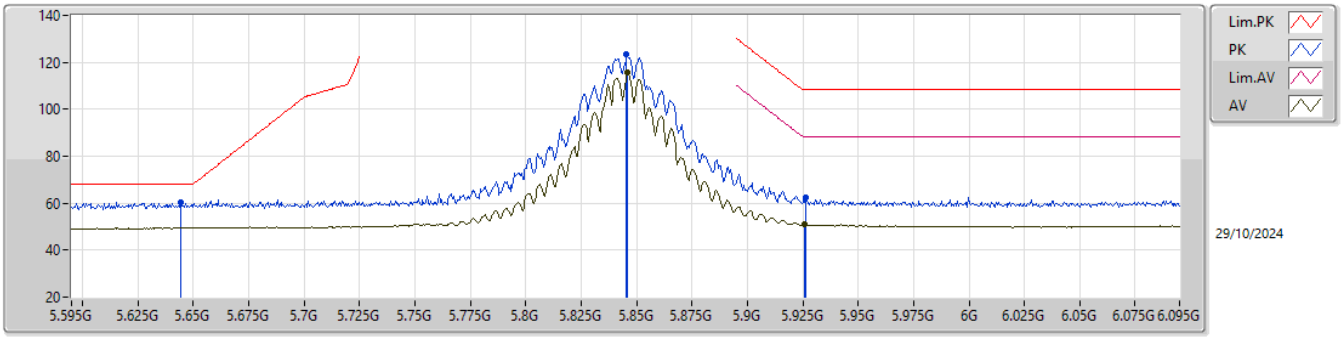
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
PK	32.91M	36.57	40.00	-3.43	-9.17	3	Horizontal	241	1.25	"Worst"	45.74	22.68	0.56	32.41
PK	63.95M	28.71	40.00	-11.29	-19.37	3	Horizontal	360	1.00	-	48.08	12.16	0.75	32.28
PK	69.77M	25.76	40.00	-14.24	-19.24	3	Horizontal	17	2.00	-	45.00	12.18	0.87	32.29
PK	94.02M	29.97	43.50	-13.53	-15.89	3	Horizontal	204	2.00	-	45.86	15.49	1.00	32.38
PK	768.17M	30.11	46.00	-15.89	-2.99	3	Horizontal	140	1.50	-	33.10	25.70	2.75	31.44
PK	925.31M	30.33	46.00	-15.67	-1.45	3	Horizontal	6	2.00	-	31.78	26.48	3.06	30.99

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.85-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11be EHT160-BF_Nss1,(MCS0)_2TX	Pass	PK	5.648G	66.19	68.20	-2.01	3	Vertical	173	1.80	-

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

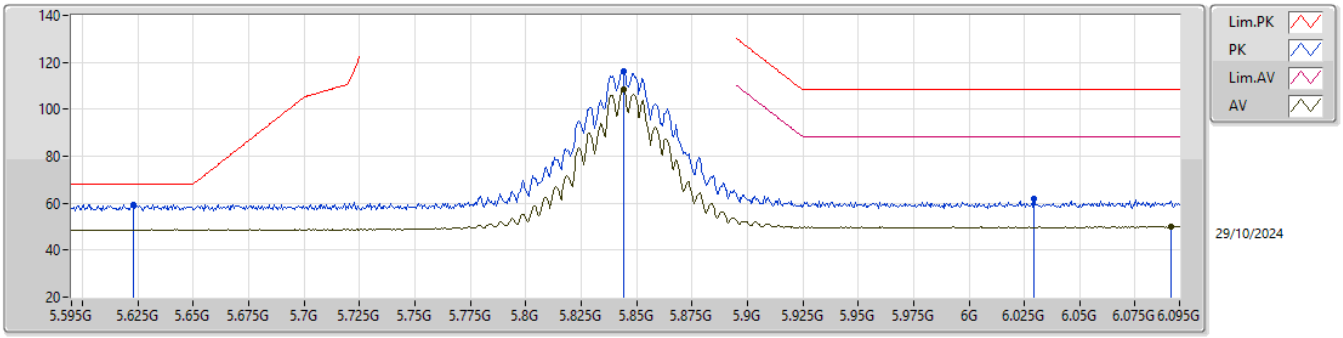


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6445G	60.58	68.20	-7.62	53.91	3	Vertical	164	1.63	-	34.21	7.69	35.23
PK	5.8455G	123.66	Inf	-Inf	116.57	3	Vertical	164	1.63	-	34.29	8.01	35.21
RMS	5.846G	115.72	Inf	-Inf	108.63	3	Vertical	164	1.63	-	34.29	8.01	35.21
PK	5.9265G	62.52	108.20	-45.68	55.08	3	Vertical	164	1.63	-	34.55	8.09	35.20
RMS	5.926G	51.00	88.20	-37.20	43.56	3	Vertical	164	1.63	-	34.55	8.09	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

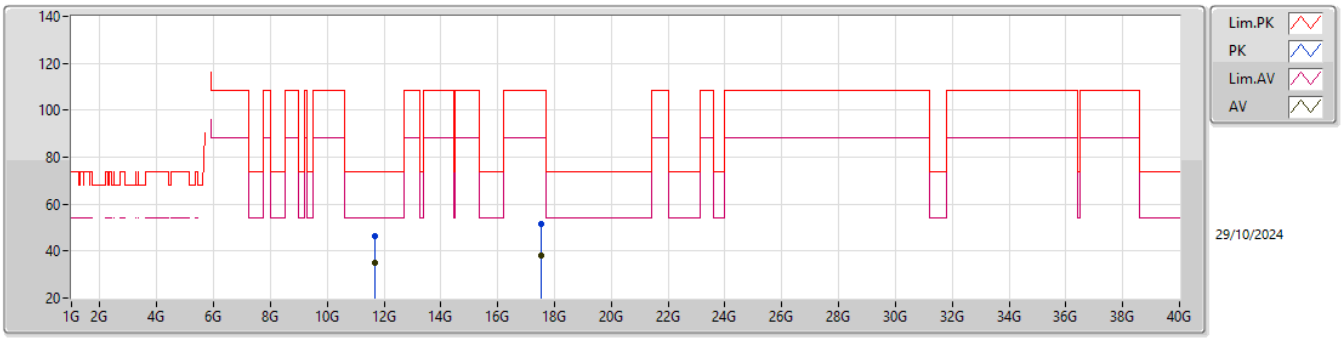


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.623G	59.47	68.20	-8.73	52.80	3	Horizontal	161	2.26	-	34.25	7.65	35.23
PK	5.844G	116.28	Inf	-Inf	109.19	3	Horizontal	161	2.26	-	34.29	8.01	35.21
RMS	5.844G	108.68	Inf	-Inf	101.59	3	Horizontal	161	2.26	-	34.29	8.01	35.21
PK	6.0295G	61.90	108.20	-46.30	54.28	3	Horizontal	161	2.26	-	34.60	8.21	35.19
RMS	6.091G	50.24	88.20	-37.96	42.28	3	Horizontal	161	2.26	-	34.85	8.31	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

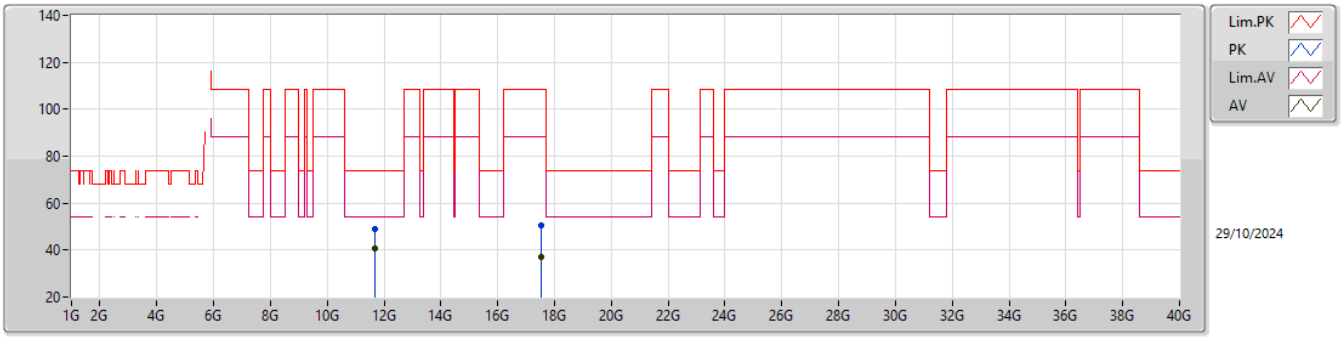


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.68862G	46.58	74.00	-27.42	61.48	3	Vertical	314	1.58	-	39.35	11.70	65.95
AV	11.69G	34.94	54.00	-19.06	49.82	3	Vertical	314	1.58	-	39.36	11.70	65.94
PK	17.53959G	51.55	108.20	-56.65	57.81	3	Vertical	245	2.36	-	42.90	14.02	63.18
RMS	17.53802G	38.13	88.20	-50.07	44.42	3	Vertical	245	2.36	-	42.88	14.02	63.19

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

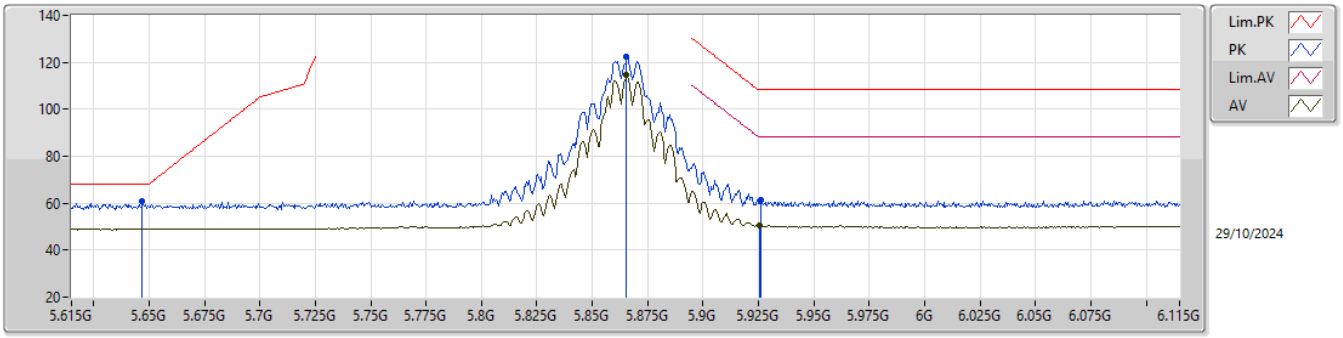


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.68994G	48.75	74.00	-25.25	63.63	3	Horizontal	20	1.80	-	39.36	11.70	65.94
AV	11.69G	40.90	54.00	-13.10	55.78	3	Horizontal	20	1.80	-	39.36	11.70	65.94
PK	17.53389G	50.56	108.20	-57.64	56.89	3	Horizontal	229	1.94	-	42.84	14.02	63.19
RMS	17.53835G	37.14	88.20	-51.06	43.42	3	Horizontal	229	1.94	-	42.88	14.02	63.18

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

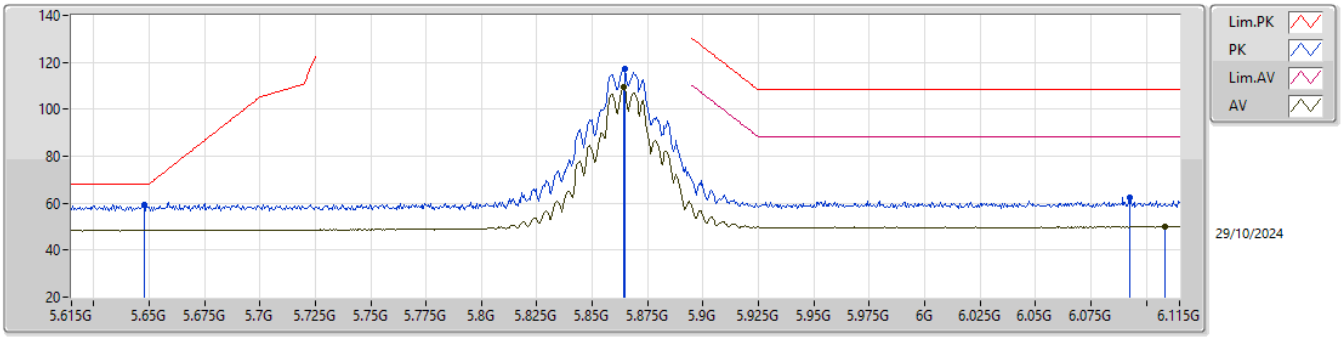


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.647G	60.63	68.20	-7.57	53.96	3	Vertical	169	1.54	-	34.21	7.69	35.23
PK	5.8655G	122.32	Inf	-Inf	115.13	3	Vertical	169	1.54	-	34.36	8.03	35.20
RMS	5.8655G	114.53	Inf	-Inf	107.34	3	Vertical	169	1.54	-	34.36	8.03	35.20
PK	5.926G	61.34	108.20	-46.86	53.90	3	Vertical	169	1.54	-	34.55	8.09	35.20
RMS	5.9255G	50.73	88.20	-37.47	43.29	3	Vertical	169	1.54	-	34.55	8.09	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

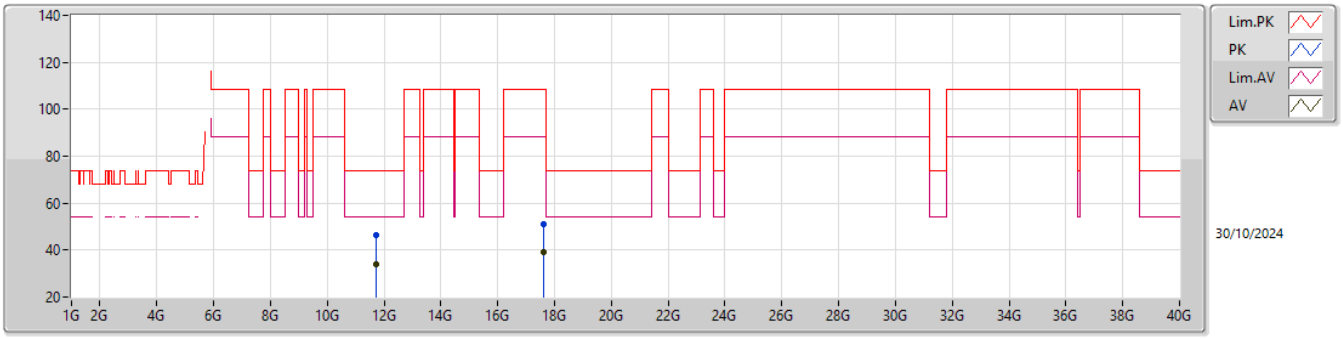


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	59.54	68.20	-8.66	52.88	3	Horizontal	200	2.20	-	34.20	7.69	35.23
PK	5.8645G	117.13	Inf	-Inf	109.94	3	Horizontal	200	2.20	-	34.36	8.03	35.20
RMS	5.864G	109.47	Inf	-Inf	102.28	3	Horizontal	200	2.20	-	34.36	8.03	35.20
PK	6.0925G	62.42	108.20	-45.78	54.45	3	Horizontal	200	2.20	-	34.86	8.31	35.20
RMS	6.1085G	50.12	88.20	-38.08	42.09	3	Horizontal	200	2.20	-	34.90	8.33	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

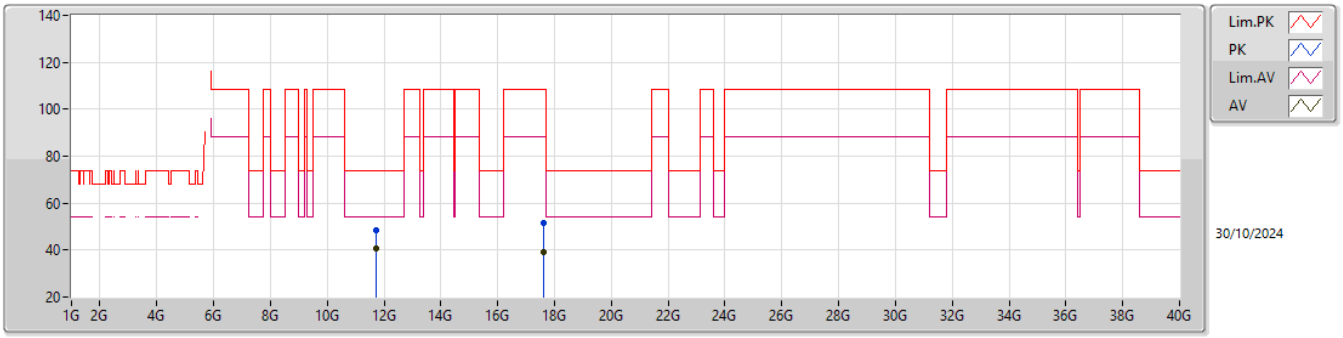


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.73879G	46.26	74.00	-27.74	60.97	3	Vertical	306	1.75	-	39.48	11.72	65.91
AV	11.73G	34.07	54.00	-19.93	48.81	3	Vertical	306	1.75	-	39.46	11.72	65.92
PK	17.59822G	51.12	108.20	-57.08	56.66	3	Vertical	127	2.31	-	43.48	14.05	63.07
RMS	17.5972G	39.25	88.20	-48.95	44.80	3	Vertical	127	2.31	-	43.47	14.05	63.07

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

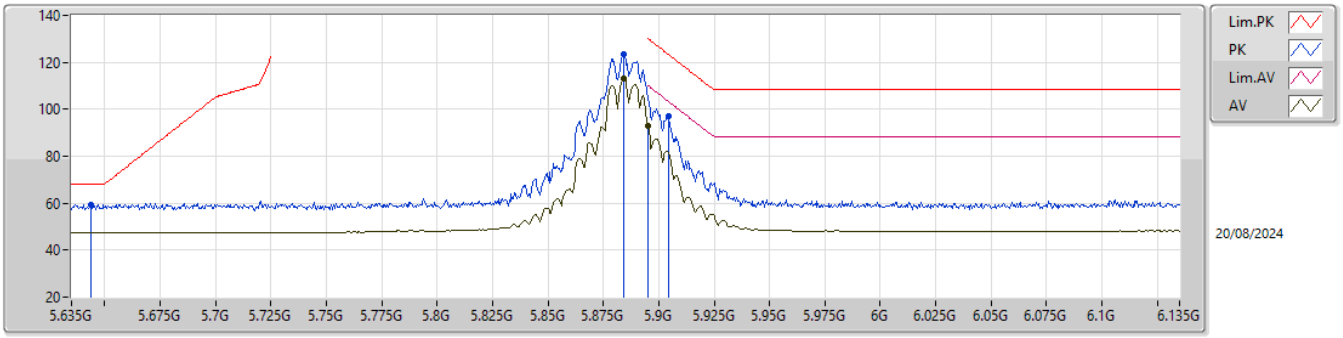


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.73027G	48.53	74.00	-25.47	63.27	3	Horizontal	16	1.94	-	39.46	11.72	65.92
AV	11.73G	40.79	54.00	-13.21	55.53	3	Horizontal	16	1.94	-	39.46	11.72	65.92
PK	17.59765G	51.61	108.20	-56.59	57.15	3	Horizontal	74	1.72	-	43.48	14.05	63.07
RMS	17.59728G	39.24	88.20	-48.96	44.79	3	Horizontal	74	1.72	-	43.47	14.05	63.07

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

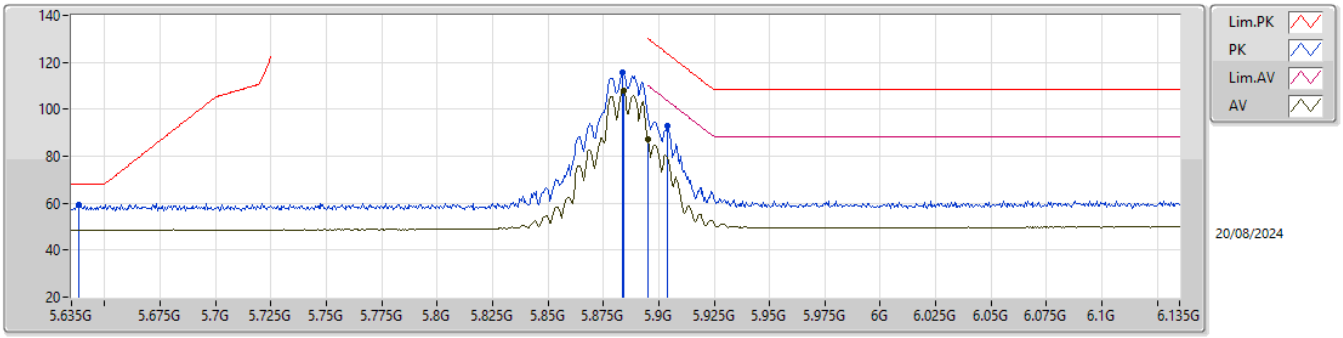


EUT Y_2TX
Setting 25
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.644G	59.38	68.20	-8.82	52.94	3	Vertical	0	1.24	-	34.21	7.46	35.23
PK	5.884G	123.40	Inf	-Inf	116.56	3	Vertical	0	1.24	-	34.44	7.60	35.20
RMS	5.884G	113.12	Inf	-Inf	106.28	3	Vertical	0	1.24	-	34.44	7.60	35.20
PK	5.9045G	97.27	123.23	-25.96	90.35	3	Vertical	0	1.24	-	34.51	7.61	35.20
RMS	5.895G	93.08	110.20	-17.12	86.19	3	Vertical	0	1.24	-	34.48	7.61	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

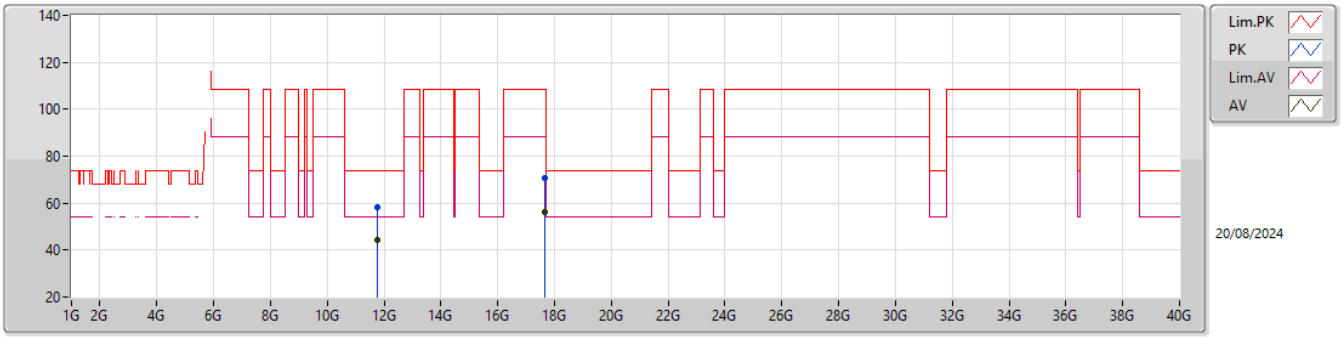


EUT Y_2TX
Setting 25
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6385G	59.15	68.20	-9.05	52.48	3	Horizontal	162	2.26	-	34.22	7.68	35.23
PK	5.8835G	115.65	Inf	-Inf	108.37	3	Horizontal	162	2.26	-	34.43	8.05	35.20
RMS	5.884G	108.05	Inf	-Inf	100.76	3	Horizontal	162	2.26	-	34.44	8.05	35.20
PK	5.904G	93.08	123.60	-30.52	85.70	3	Horizontal	162	2.26	-	34.51	8.07	35.20
RMS	5.895G	87.35	110.20	-22.85	80.01	3	Horizontal	162	2.26	-	34.48	8.06	35.20

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

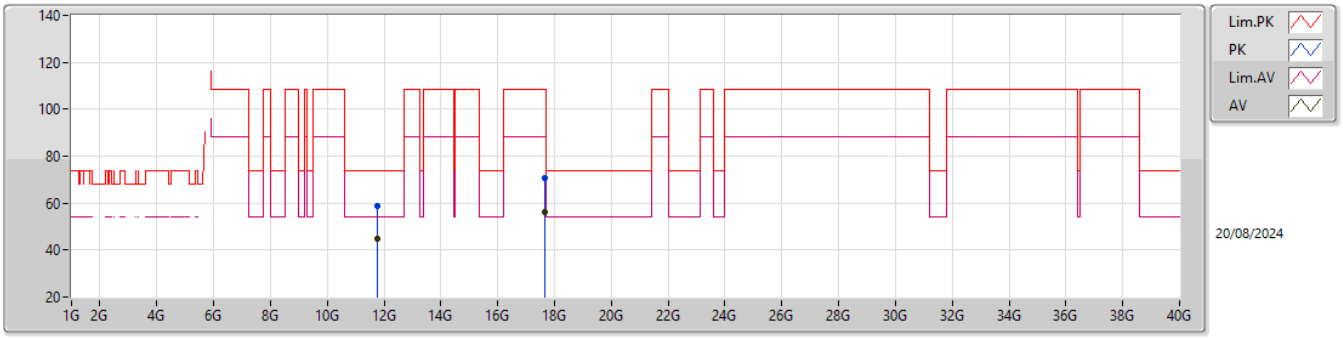


EUT Y_2TX
Setting 25
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.77084G	58.22	74.00	-15.78	41.97	3	Vertical	360	1.80	-	39.46	11.39	34.60
AV	11.77432G	44.14	54.00	-9.86	27.90	3	Vertical	360	1.80	-	39.45	11.39	34.60
PK	17.65026G	70.83	108.20	-37.37	46.99	3	Vertical	232	1.85	-	43.80	13.76	33.72
RMS	17.66535G	56.33	88.20	-31.87	32.38	3	Vertical	232	1.85	-	43.89	13.77	33.71

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

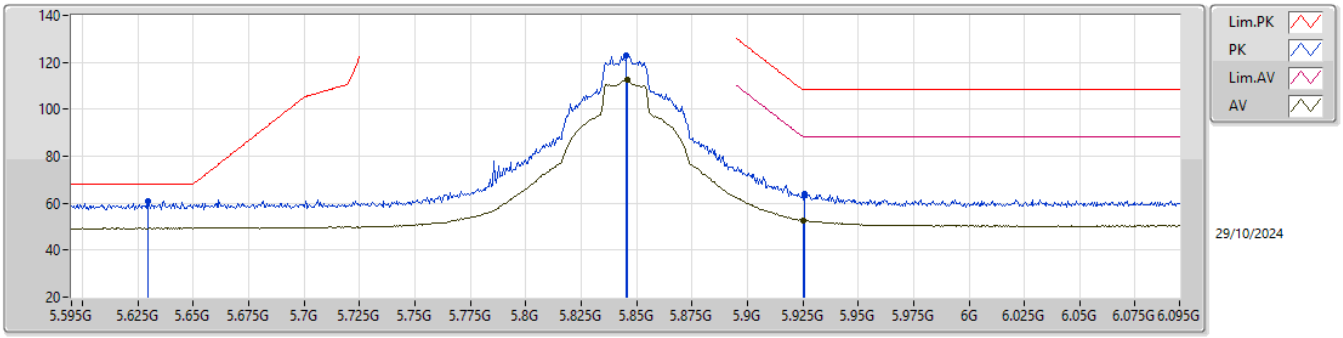


EUT Y_2TX
Setting 25
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.77909G	58.67	74.00	-15.33	42.44	3	Horizontal	53	1.80	-	39.44	11.40	34.61
AV	11.76988G	44.85	54.00	-9.15	28.60	3	Horizontal	53	1.80	-	39.46	11.39	34.60
PK	17.66724G	70.78	108.20	-37.42	46.82	3	Horizontal	243	1.25	-	43.90	13.77	33.71
RMS	17.66868G	56.32	88.20	-31.88	32.35	3	Horizontal	243	1.25	-	43.91	13.77	33.71

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

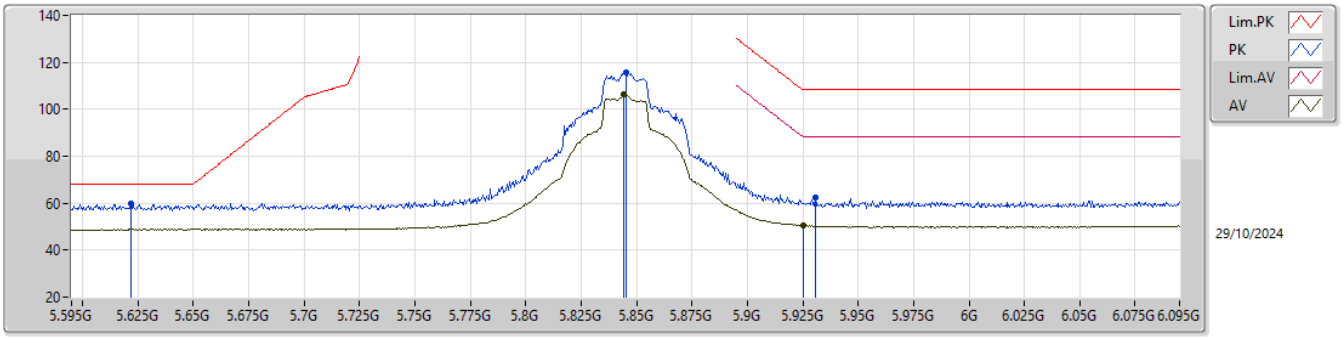


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6295G	60.92	68.20	-7.28	54.25	3	Vertical	21	1.80	-	34.24	7.66	35.23
PK	5.8455G	122.79	Inf	-Inf	115.70	3	Vertical	21	1.80	-	34.29	8.01	35.21
RMS	5.846G	112.36	Inf	-Inf	105.27	3	Vertical	21	1.80	-	34.29	8.01	35.21
PK	5.926G	63.80	108.20	-44.40	56.36	3	Vertical	21	1.80	-	34.55	8.09	35.20
RMS	5.9255G	52.62	88.20	-35.58	45.18	3	Vertical	21	1.80	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

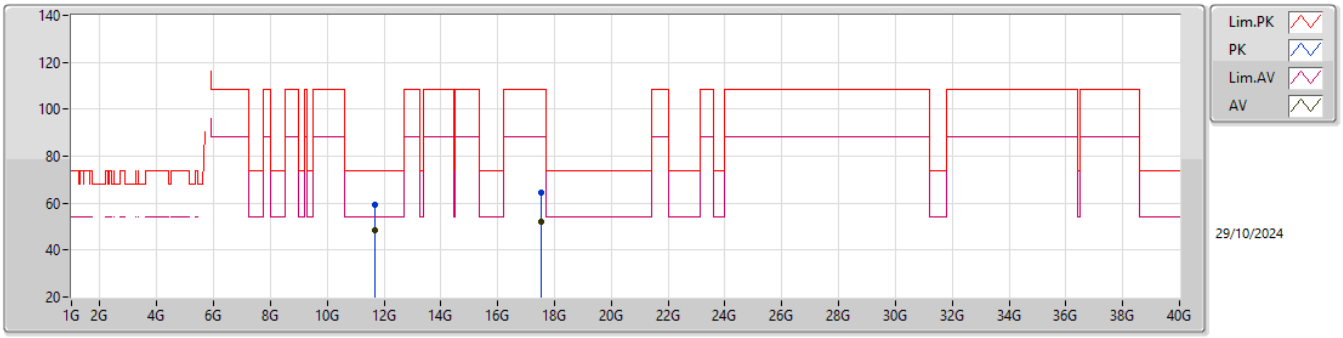


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.622G	59.57	68.20	-8.63	52.89	3	Horizontal	198	2.16	-	34.26	7.65	35.23
PK	5.845G	115.71	Inf	-Inf	108.62	3	Horizontal	198	2.16	-	34.29	8.01	35.21
RMS	5.844G	106.14	Inf	-Inf	99.05	3	Horizontal	198	2.16	-	34.29	8.01	35.21
PK	5.9305G	62.43	108.20	-45.77	54.97	3	Horizontal	198	2.16	-	34.56	8.10	35.20
RMS	5.9255G	50.48	88.20	-37.72	43.04	3	Horizontal	198	2.16	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

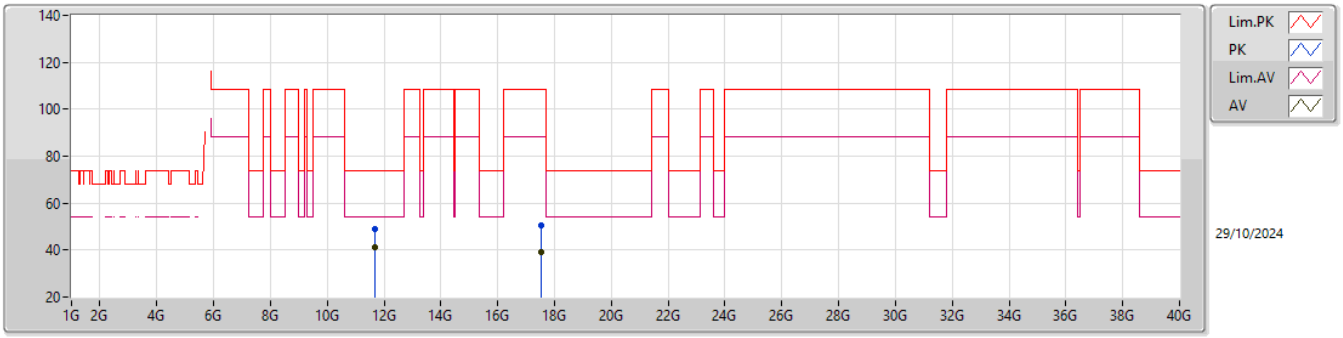


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.68997G	59.32	74.00	-14.68	74.20	3	Vertical	313	1.56	-	39.36	11.70	65.94
AV	11.69009G	48.27	54.00	-5.73	63.15	3	Vertical	313	1.56	-	39.36	11.70	65.94
PK	17.53922G	64.25	108.20	-43.95	70.52	3	Vertical	347	1.47	-	42.89	14.02	63.18
RMS	17.53583G	52.19	88.20	-36.01	58.50	3	Vertical	347	1.47	-	42.86	14.02	63.19

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

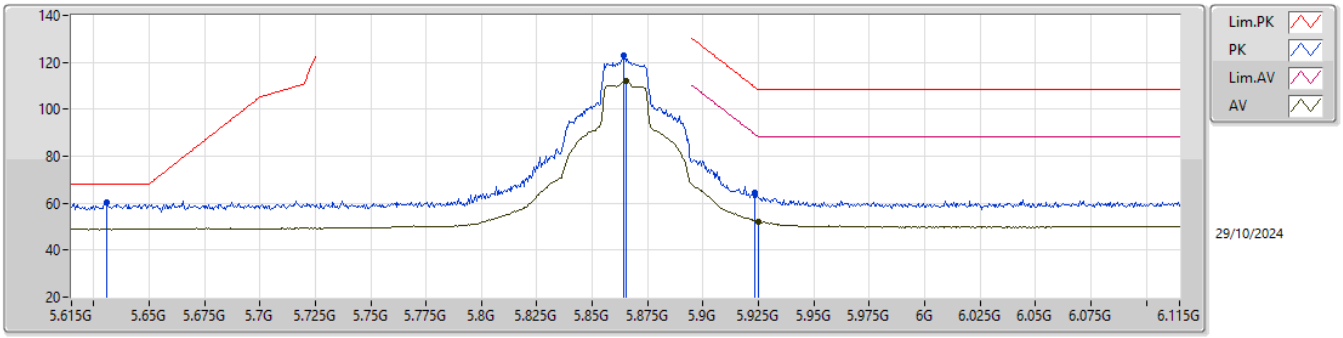


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.69045G	49.04	74.00	-24.96	63.92	3	Horizontal	17	1.96	-	39.36	11.70	65.94
AV	11.69003G	41.31	54.00	-12.69	56.19	3	Horizontal	17	1.96	-	39.36	11.70	65.94
PK	17.53575G	50.64	108.20	-57.56	56.95	3	Horizontal	87	1.18	-	42.86	14.02	63.19
RMS	17.53875G	39.14	88.20	-49.06	45.41	3	Horizontal	87	1.18	-	42.89	14.02	63.18

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

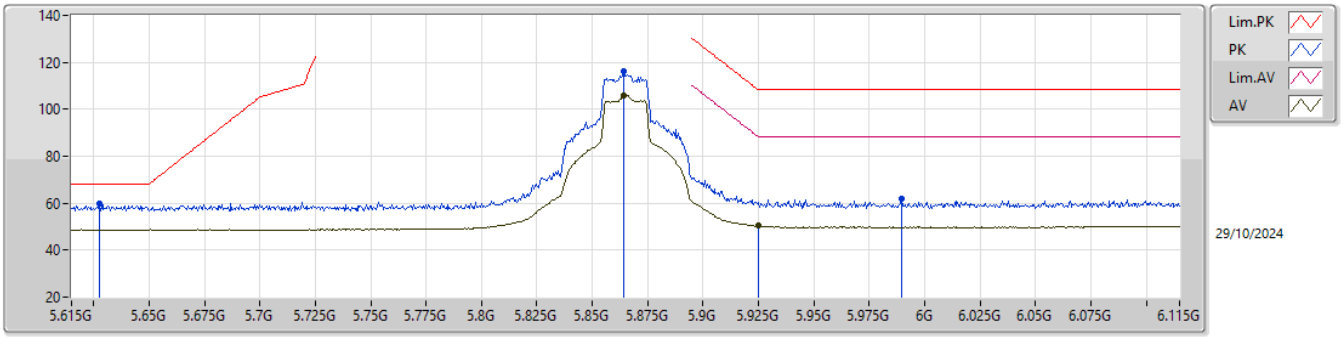


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.631G	60.20	68.20	-8.00	53.53	3	Vertical	0	1.42	-	34.24	7.66	35.23
PK	5.864G	122.99	Inf	-Inf	115.80	3	Vertical	0	1.42	-	34.36	8.03	35.20
RMS	5.8655G	112.14	Inf	-Inf	104.95	3	Vertical	0	1.42	-	34.36	8.03	35.20
PK	5.9235G	64.42	109.30	-44.88	56.98	3	Vertical	0	1.42	-	34.55	8.09	35.20
RMS	5.925G	52.20	88.20	-36.00	44.76	3	Vertical	0	1.42	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

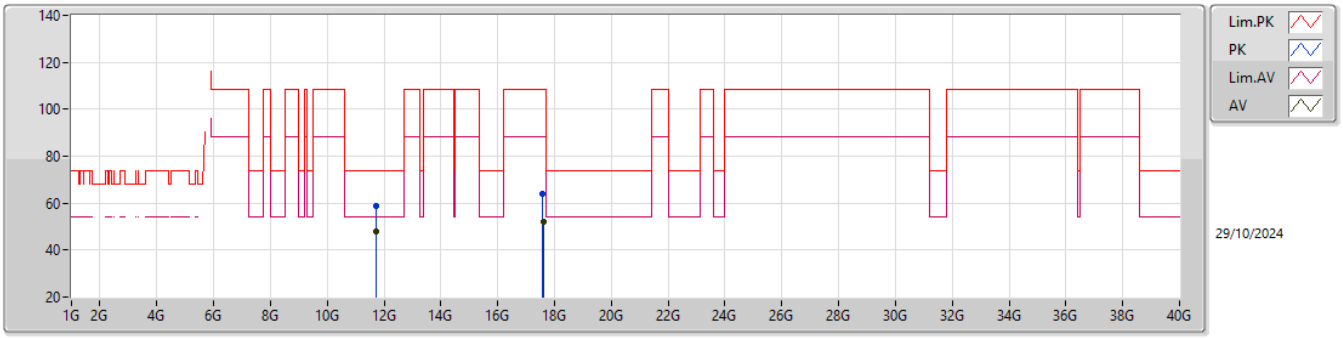


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6275G	59.62	68.20	-8.58	52.95	3	Horizontal	203	2.20	-	34.24	7.66	35.23
PK	5.864G	116.37	Inf	-Inf	109.18	3	Horizontal	203	2.20	-	34.36	8.03	35.20
RMS	5.864G	105.95	Inf	-Inf	98.76	3	Horizontal	203	2.20	-	34.36	8.03	35.20
RMS	5.925G	50.40	88.20	-37.80	42.96	3	Horizontal	203	2.20	-	34.55	8.09	35.20
PK	5.9895G	61.84	108.20	-46.36	54.27	3	Horizontal	203	2.20	-	34.60	8.16	35.19

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

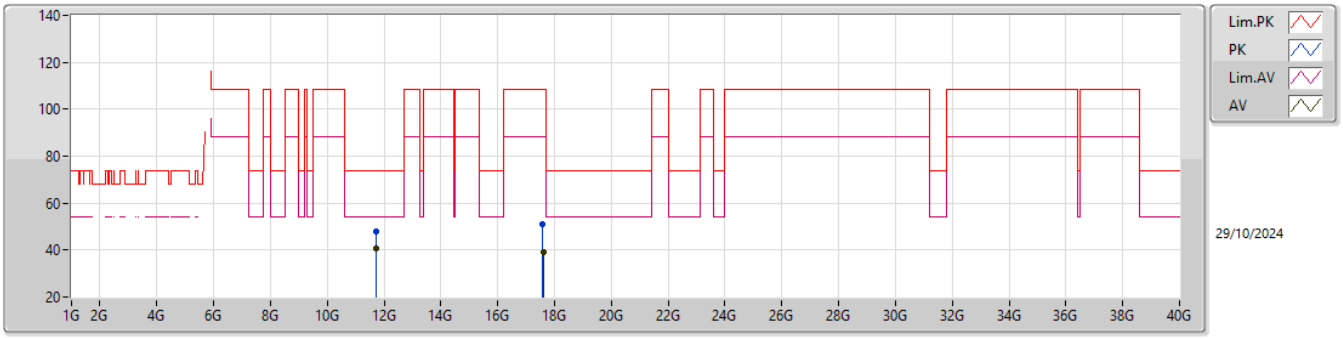


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.71767G	59.03	74.00	-14.97	73.80	3	Vertical	308	1.59	-	39.44	11.72	65.93
AV	11.73009G	47.86	54.00	-6.14	62.60	3	Vertical	308	1.59	-	39.46	11.72	65.92
PK	17.59057G	64.22	108.20	-43.98	69.84	3	Vertical	252	1.12	-	43.41	14.05	63.08
AV	17.59942G	52.24	88.20	-35.96	57.77	3	Vertical	252	1.12	-	43.49	14.05	63.07

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

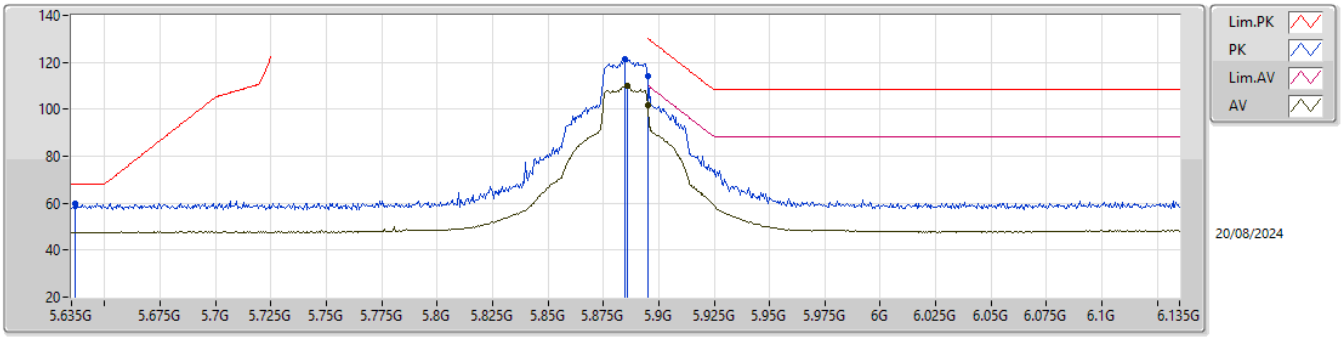


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.73009G	47.96	74.00	-26.04	62.70	3	Horizontal	19	1.68	-	39.46	11.72	65.92
AV	11.73003G	40.88	54.00	-13.12	55.62	3	Horizontal	19	1.68	-	39.46	11.72	65.92
PK	17.59278G	51.05	108.20	-57.15	56.65	3	Horizontal	209	1.42	-	43.43	14.05	63.08
AV	17.59902G	39.12	88.20	-49.08	44.65	3	Horizontal	209	1.42	-	43.49	14.05	63.07

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

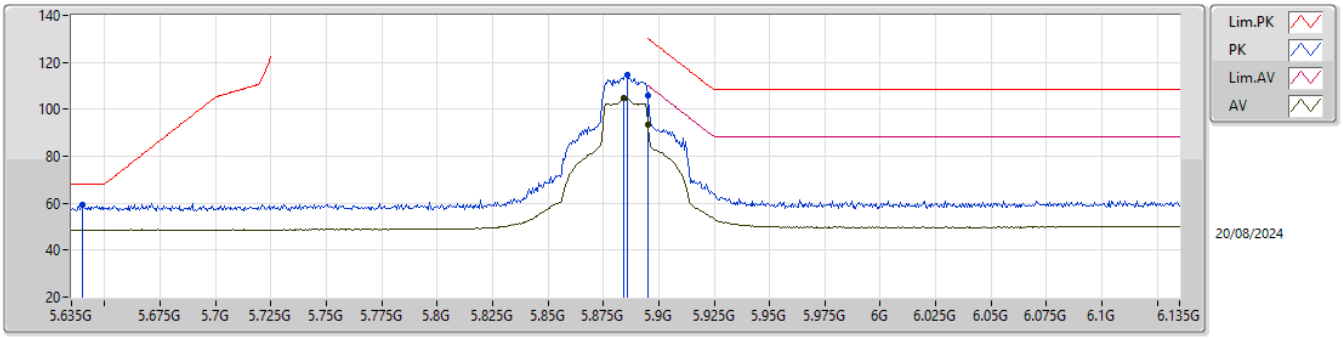


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6365G	60.03	68.20	-8.17	53.57	3	Vertical	355	1.80	-	34.23	7.46	35.23
PK	5.8845G	121.17	Inf	-Inf	114.33	3	Vertical	355	1.80	-	34.44	7.60	35.20
RMS	5.886G	110.05	Inf	-Inf	103.21	3	Vertical	355	1.80	-	34.44	7.60	35.20
PK	5.895G	113.91	130.20	-16.29	107.02	3	Vertical	355	1.80	-	34.48	7.61	35.20
RMS	5.895G	101.87	110.20	-8.33	94.98	3	Vertical	355	1.80	-	34.48	7.61	35.20

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

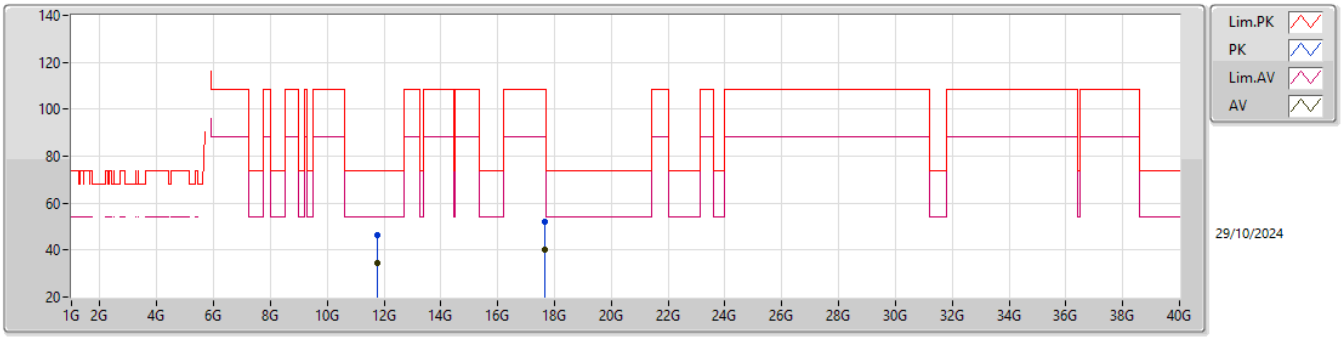


EUT Y_2TX
Setting 29
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.64G	59.12	68.20	-9.08	52.45	3	Horizontal	166	2.08	-	34.22	7.68	35.23
PK	5.886G	114.71	Inf	-Inf	107.42	3	Horizontal	166	2.08	-	34.44	8.05	35.20
RMS	5.884G	104.72	Inf	-Inf	97.43	3	Horizontal	166	2.08	-	34.44	8.05	35.20
PK	5.895G	105.76	130.20	-24.44	98.42	3	Horizontal	166	2.08	-	34.48	8.06	35.20
RMS	5.895G	93.51	110.20	-16.69	86.17	3	Horizontal	166	2.08	-	34.48	8.06	35.20

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

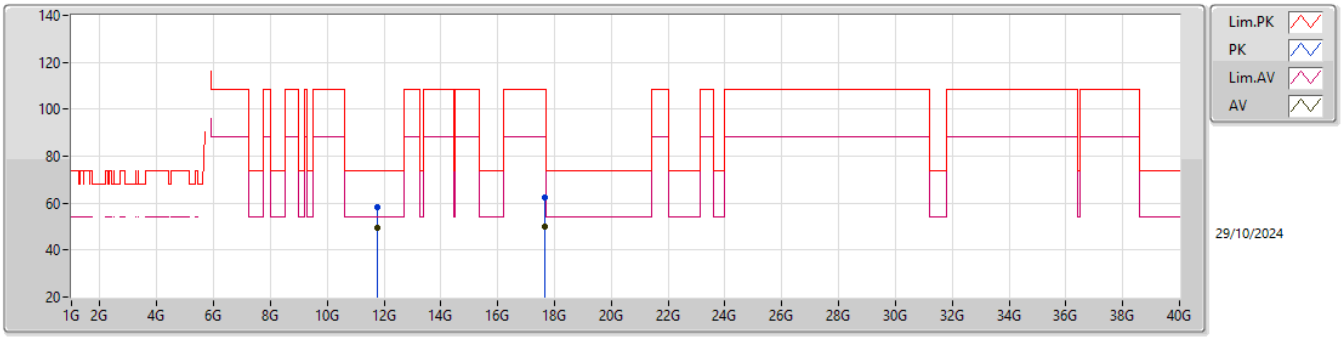


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76646G	46.31	74.00	-27.69	60.99	3	Vertical	308	1.79	-	39.47	11.74	65.89
AV	11.77G	34.37	54.00	-19.63	49.06	3	Vertical	308	1.79	-	39.46	11.74	65.89
PK	17.65734G	51.96	108.20	-56.24	56.99	3	Vertical	240	1.27	-	43.84	14.08	62.95
RMS	17.65699G	40.00	88.20	-48.20	45.03	3	Vertical	240	1.27	-	43.84	14.08	62.95

5.85-5.895GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

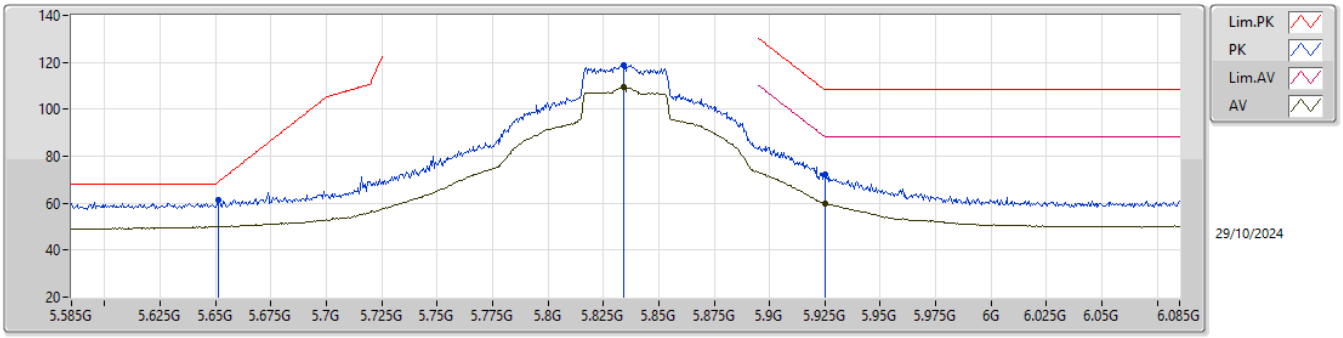


EUT Y_2TX
Setting 29
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76982G	58.52	74.00	-15.48	73.21	3	Horizontal	17	2.00	-	39.46	11.74	65.89
AV	11.77003G	49.47	54.00	-4.53	64.16	3	Horizontal	17	2.00	-	39.46	11.74	65.89
PK	17.6586G	62.19	108.20	-46.01	67.21	3	Horizontal	353	2.20	-	43.85	14.08	62.95
RMS	17.65683G	49.99	88.20	-38.21	55.02	3	Horizontal	353	2.20	-	43.84	14.08	62.95

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

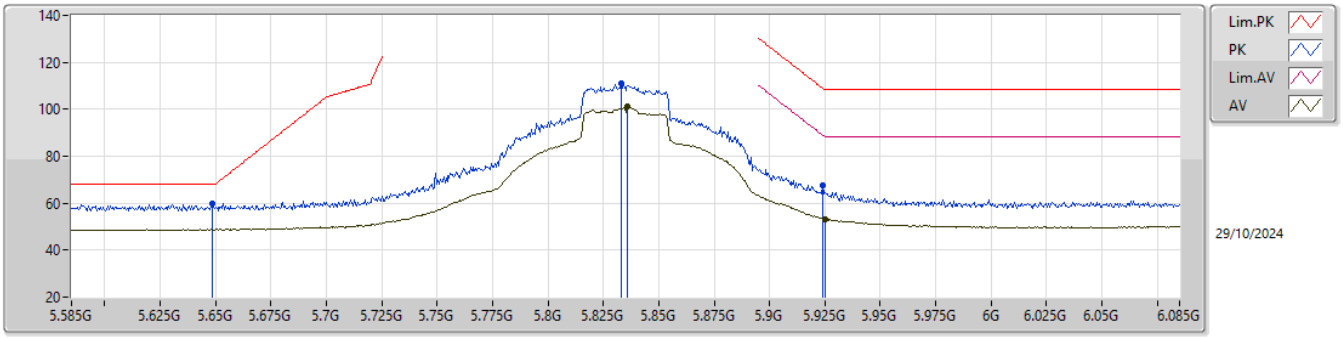


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.651G	61.33	68.94	-7.61	54.65	3	Vertical	360	1.42	-	34.20	7.70	35.22
PK	5.834G	118.64	Inf	-Inf	111.58	3	Vertical	360	1.42	-	34.27	8.00	35.21
RMS	5.834G	109.55	Inf	-Inf	102.49	3	Vertical	360	1.42	-	34.27	8.00	35.21
PK	5.925G	72.49	108.20	-35.71	65.05	3	Vertical	360	1.42	-	34.55	8.09	35.20
RMS	5.925G	59.92	88.20	-28.28	52.48	3	Vertical	360	1.42	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

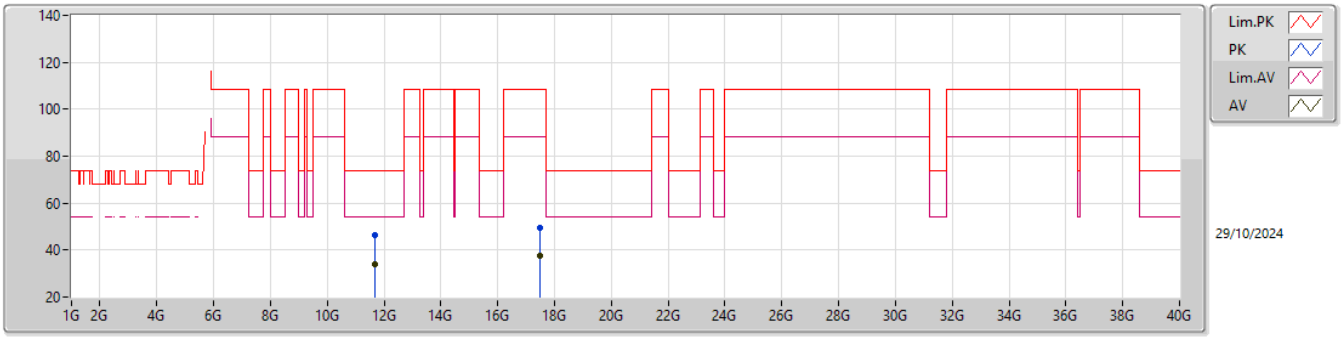


EUT Y_2TX
Setting 30
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6485G	59.95	68.20	-8.25	53.29	3	Horizontal	121	2.26	-	34.20	7.69	35.23
PK	5.833G	110.98	Inf	-Inf	103.93	3	Horizontal	121	2.26	-	34.27	7.99	35.21
RMS	5.836G	101.05	Inf	-Inf	93.99	3	Horizontal	121	2.26	-	34.27	8.00	35.21
PK	5.924G	67.76	108.93	-41.17	60.32	3	Horizontal	121	2.26	-	34.55	8.09	35.20
RMS	5.925G	53.34	88.20	-34.86	45.90	3	Horizontal	121	2.26	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

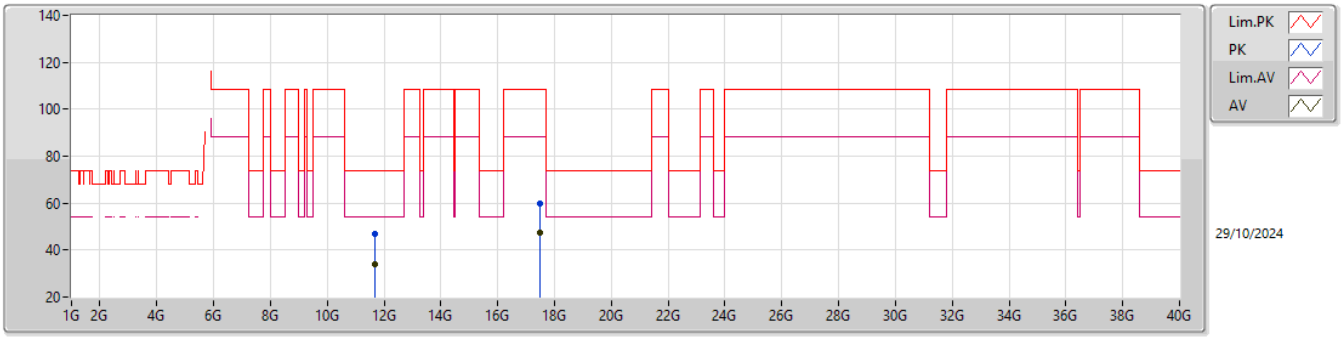


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.67579G	46.36	74.00	-27.64	61.31	3	Vertical	213	1.80	-	39.30	11.70	65.95
AV	11.65968G	33.99	54.00	-20.01	49.02	3	Vertical	213	1.80	-	39.24	11.69	65.96
PK	17.50558G	49.68	108.20	-58.52	56.36	3	Vertical	269	1.16	-	42.56	14.01	63.25
RMS	17.508G	37.35	88.20	-50.85	44.00	3	Vertical	269	1.16	-	42.58	14.01	63.24

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

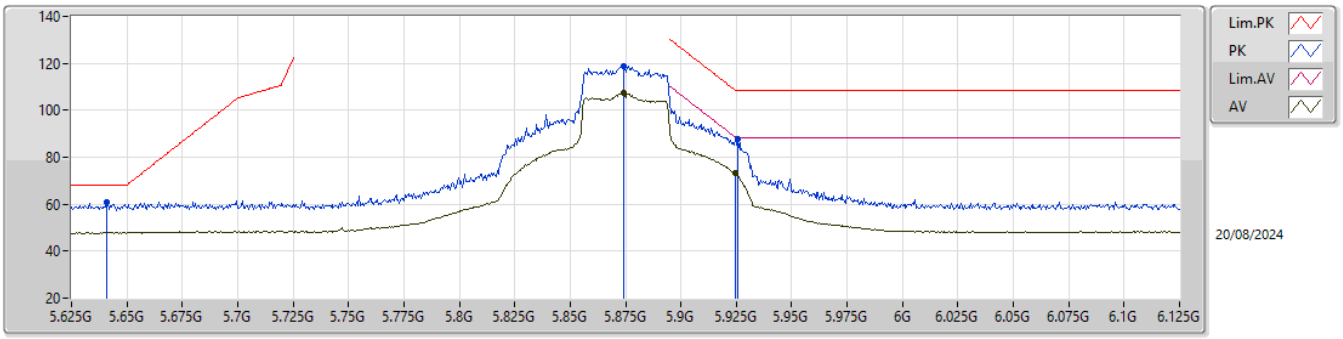


EUT Y_2TX
Setting 30
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.66754G	46.99	74.00	-27.01	61.98	3	Horizontal	338	1.80	-	39.27	11.70	65.96
AV	11.6616G	34.03	54.00	-19.97	49.05	3	Horizontal	338	1.80	-	39.25	11.69	65.96
PK	17.50267G	59.61	108.20	-48.59	66.32	3	Horizontal	227	1.64	-	42.53	14.01	63.25
RMS	17.50709G	47.37	88.20	-40.83	54.04	3	Horizontal	227	1.64	-	42.57	14.01	63.25

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

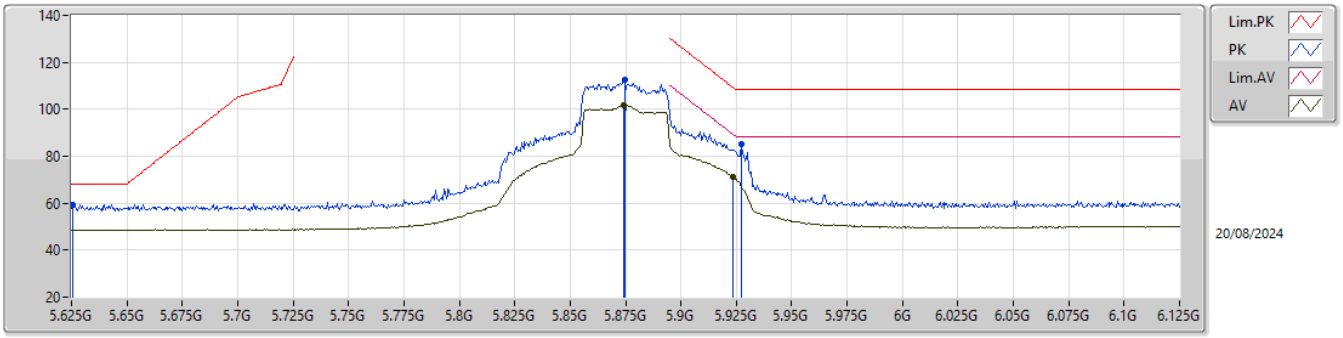


EUT Y_2TX
Setting 28
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.641G	60.79	68.20	-7.41	54.34	3	Vertical	360	2.49	-	34.22	7.46	35.23
PK	5.874G	118.88	Inf	-Inf	112.09	3	Vertical	360	2.49	-	34.40	7.59	35.20
RMS	5.874G	107.53	Inf	-Inf	100.74	3	Vertical	360	2.49	-	34.40	7.59	35.20
PK	5.9255G	88.00	108.20	-20.20	81.02	3	Vertical	360	2.49	-	34.55	7.63	35.20
RMS	5.9245G	73.23	88.57	-15.34	66.25	3	Vertical	360	2.49	-	34.55	7.63	35.20

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

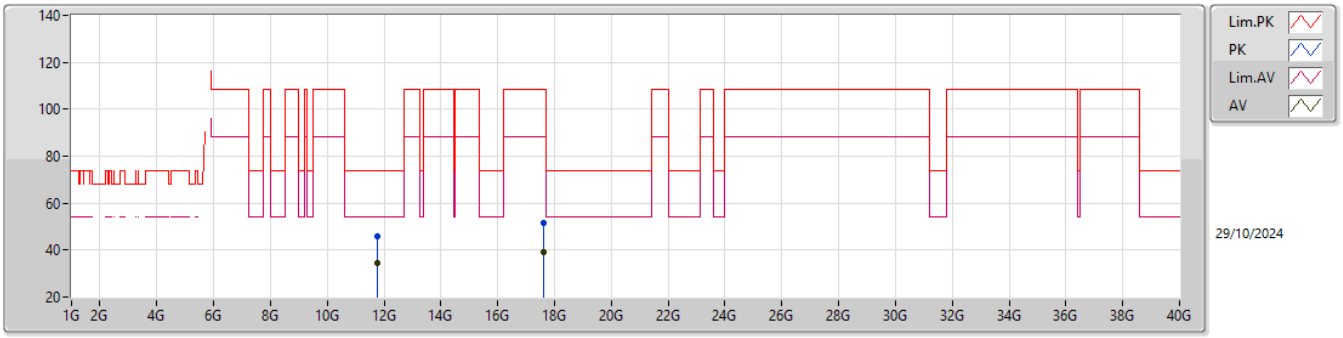


EUT Y_2TX
Setting 28
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6255G	59.21	68.20	-8.99	52.54	3	Horizontal	200	1.80	-	34.25	7.65	35.23
PK	5.8745G	112.42	Inf	-Inf	105.18	3	Horizontal	200	1.80	-	34.40	8.04	35.20
RMS	5.874G	101.70	Inf	-Inf	94.46	3	Horizontal	200	1.80	-	34.40	8.04	35.20
PK	5.9275G	85.27	108.20	-22.93	77.83	3	Horizontal	200	1.80	-	34.55	8.09	35.20
RMS	5.9235G	71.33	89.30	-17.97	63.89	3	Horizontal	200	1.80	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

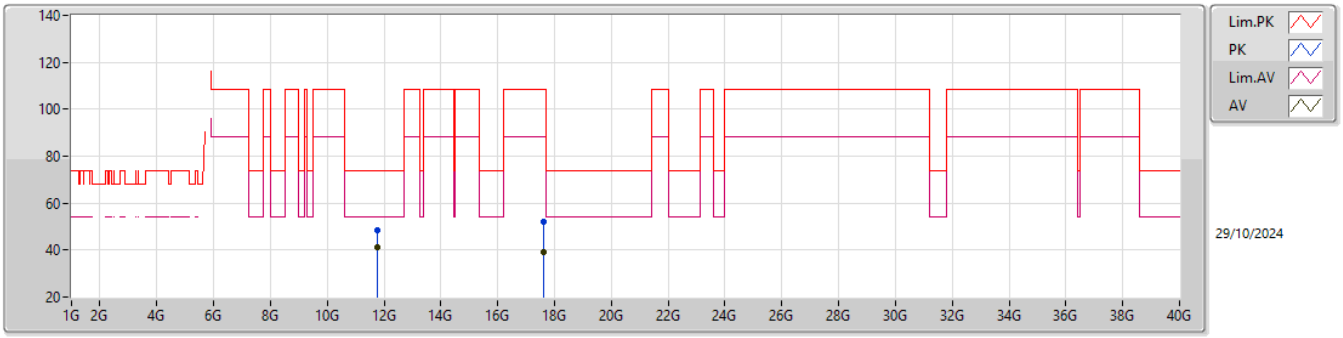


EUT Y_2TX
Setting 28
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76437G	45.85	74.00	-28.15	60.55	3	Vertical	313	1.61	-	39.47	11.73	65.90
AV	11.75G	34.73	54.00	-19.27	49.41	3	Vertical	313	1.61	-	39.50	11.73	65.91
PK	17.62659G	51.31	108.20	-56.89	56.59	3	Vertical	340	1.46	-	43.66	14.07	63.01
RMS	17.62857G	39.28	88.20	-48.92	44.55	3	Vertical	340	1.46	-	43.67	14.07	63.01

5.85-5.895GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

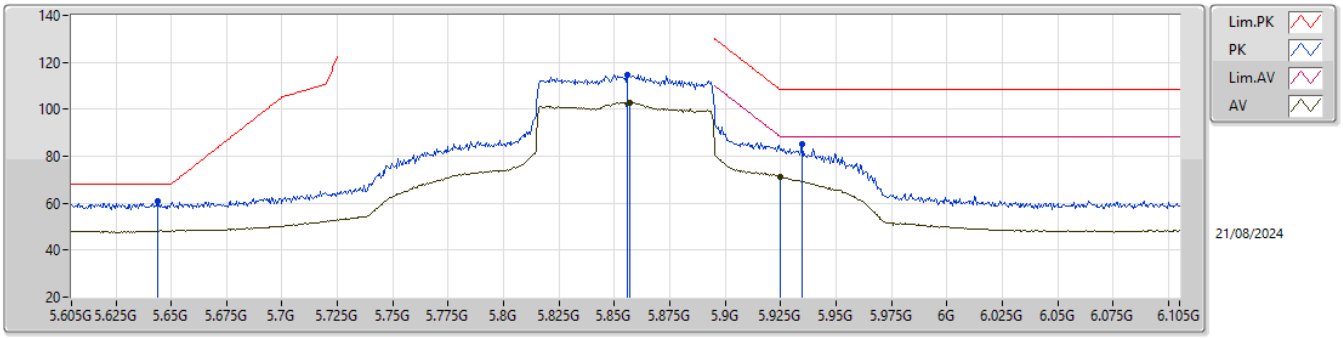


EUT Y_2TX
Setting 28
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.75006G	48.39	74.00	-25.61	63.06	3	Horizontal	17	1.99	-	39.50	11.73	65.90
AV	11.75G	41.24	54.00	-12.76	55.92	3	Horizontal	17	1.99	-	39.50	11.73	65.91
PK	17.62425G	52.28	108.20	-55.92	57.58	3	Horizontal	211	1.91	-	43.65	14.07	63.02
RMS	17.62992G	39.25	88.20	-48.95	44.51	3	Horizontal	211	1.91	-	43.68	14.07	63.01

5.85-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

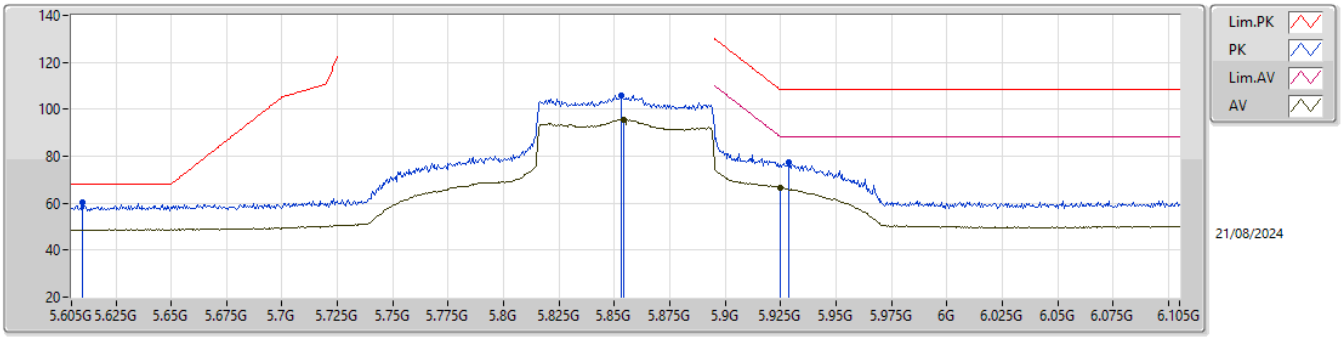


EUT Y_2TX
Setting 27
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.644G	60.71	68.20	-7.49	54.27	3	Vertical	0	2.57	-	34.21	7.46	35.23
PK	5.856G	114.56	Inf	-Inf	107.87	3	Vertical	0	2.57	-	34.32	7.57	35.20
RMS	5.857G	103.00	Inf	-Inf	96.29	3	Vertical	0	2.57	-	34.33	7.58	35.20
PK	5.9345G	85.19	108.20	-23.01	78.18	3	Vertical	0	2.57	-	34.57	7.64	35.20
RMS	5.925G	71.39	88.20	-16.81	64.41	3	Vertical	0	2.57	-	34.55	7.63	35.20

5.85-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

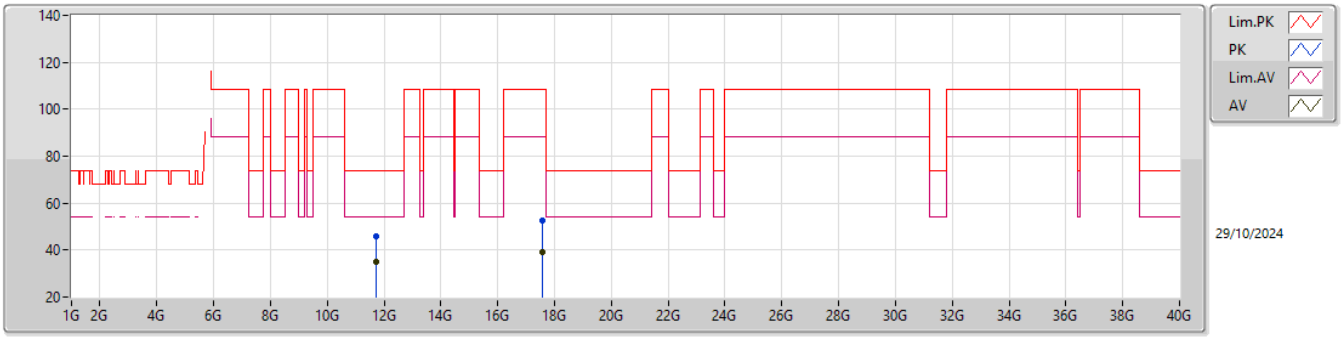


EUT Y_2TX
Setting 27
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.61G	60.30	68.20	-7.90	53.62	3	Horizontal	116	1.80	-	34.28	7.63	35.23
PK	5.853G	105.95	Inf	-Inf	98.82	3	Horizontal	116	1.80	-	34.31	8.02	35.20
RMS	5.854G	95.73	Inf	-Inf	88.59	3	Horizontal	116	1.80	-	34.32	8.02	35.20
PK	5.9285G	77.37	108.20	-30.83	69.92	3	Horizontal	116	1.80	-	34.56	8.09	35.20
RMS	5.925G	66.68	88.20	-21.52	59.24	3	Horizontal	116	1.80	-	34.55	8.09	35.20

5.85-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

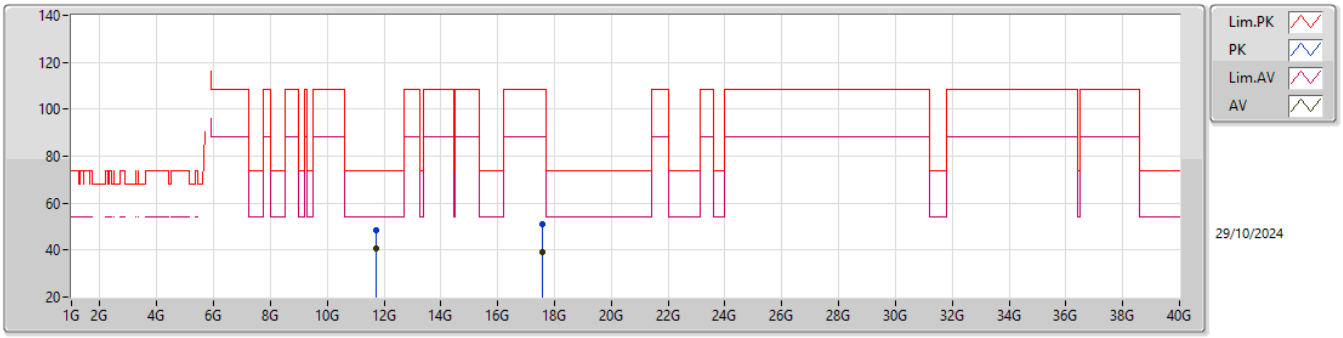


EUT Y_2TX
Setting 27
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.71588G	46.01	74.00	-27.99	60.80	3	Vertical	308	1.59	-	39.43	11.71	65.93
AV	11.71003G	34.83	54.00	-19.17	49.63	3	Vertical	308	1.59	-	39.42	11.71	65.93
PK	17.56146G	52.71	108.20	-55.49	58.70	3	Vertical	7	2.55	-	43.11	14.04	63.14
RMS	17.57706G	38.90	88.20	-49.30	44.70	3	Vertical	7	2.55	-	43.27	14.04	63.11

5.85-5.895GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

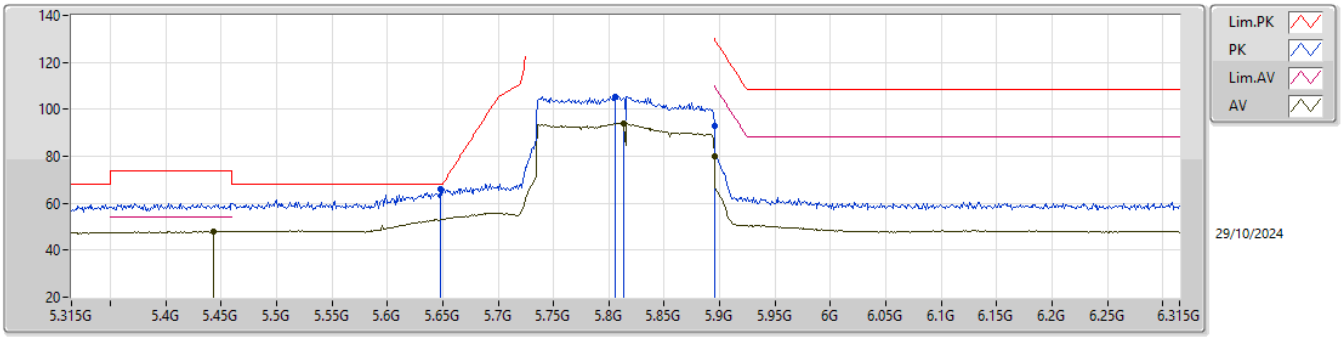


EUT Y_2TX
Setting 27
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.70979G	48.24	74.00	-25.76	63.04	3	Horizontal	20	1.80	-	39.42	11.71	65.93
AV	11.70991G	40.70	54.00	-13.30	55.50	3	Horizontal	20	1.80	-	39.42	11.71	65.93
PK	17.57985G	51.22	108.20	-56.98	56.98	3	Horizontal	186	2.80	-	43.30	14.04	63.10
RMS	17.57835G	39.18	88.20	-49.02	44.97	3	Horizontal	186	2.80	-	43.28	14.04	63.11

5.85-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

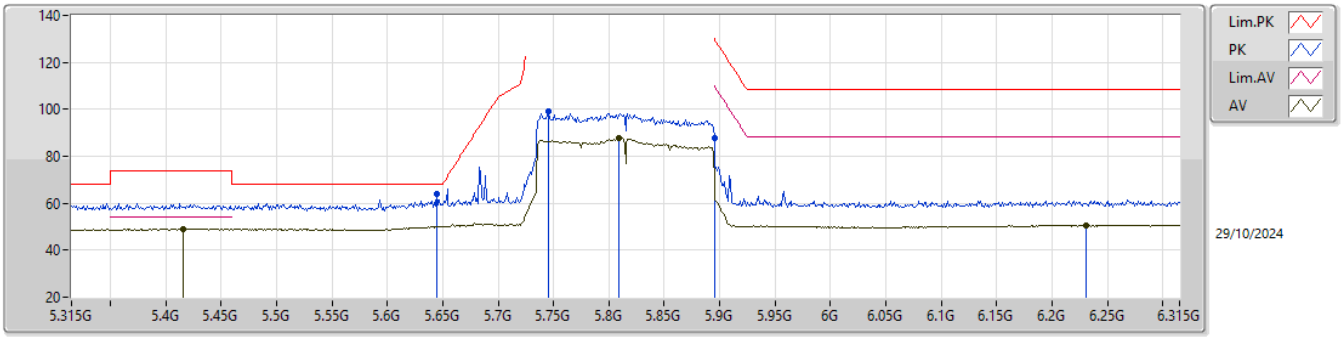


EUT Y_2TX
Setting 22
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	66.19	68.20	-2.01	59.76	3	Vertical	173	1.80	-	34.20	7.46	35.23
AV	5.443G	48.05	54.00	-5.95	41.57	3	Vertical	173	1.80	-	34.50	7.23	35.25
PK	5.806G	105.46	Inf	-Inf	98.93	3	Vertical	173	1.80	-	34.21	7.53	35.21
RMS	5.813G	94.12	Inf	-Inf	87.56	3	Vertical	173	1.80	-	34.23	7.54	35.21
PK	5.895G	93.13	130.20	-37.07	86.24	3	Vertical	173	1.80	-	34.48	7.61	35.20
RMS	5.895G	80.06	110.20	-30.14	73.17	3	Vertical	173	1.80	-	34.48	7.61	35.20

5.85-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

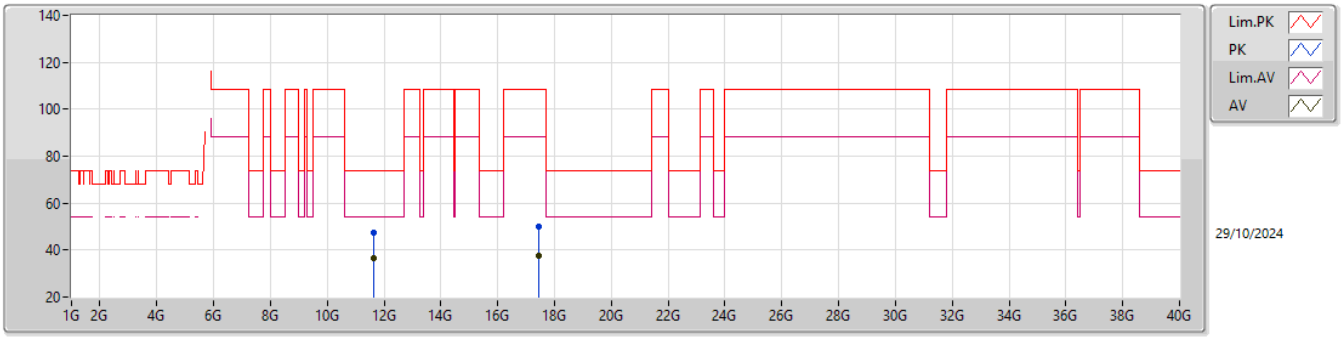


EUT Y_2TX
Setting 22
03-V-V-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.645G	63.93	68.20	-4.27	57.26	3	Horizontal	159	1.68	-	34.21	7.69	35.23
AV	5.416G	49.09	54.00	-4.91	42.01	3	Horizontal	159	1.68	-	34.50	7.84	35.26
PK	5.745G	99.07	Inf	-Inf	92.24	3	Horizontal	159	1.68	-	34.19	7.86	35.22
RMS	5.809G	87.64	Inf	-Inf	80.66	3	Horizontal	159	1.68	-	34.22	7.97	35.21
PK	5.895G	87.75	130.20	-42.45	80.41	3	Horizontal	159	1.68	-	34.48	8.06	35.20
RMS	6.231G	50.64	88.20	-37.56	42.38	3	Horizontal	159	1.68	-	34.94	8.52	35.20

5.85-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

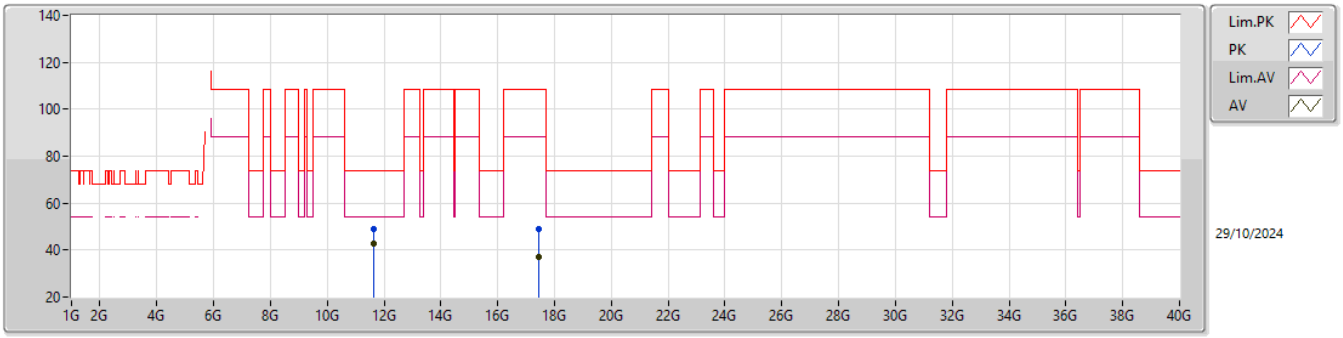


EUT Y_2TX
Setting 22
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64485G	47.52	74.00	-26.48	61.66	3	Vertical	308	1.59	-	39.20	11.69	65.03
AV	11.62982G	36.38	54.00	-17.62	50.52	3	Vertical	308	1.59	-	39.20	11.68	65.02
PK	17.44323G	49.79	108.20	-58.41	56.17	3	Vertical	268	1.54	-	42.05	13.98	62.41
RMS	17.44937G	37.74	88.20	-50.46	44.08	3	Vertical	268	1.54	-	42.09	13.98	62.41

5.85-5.895GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

5815MHz_TX



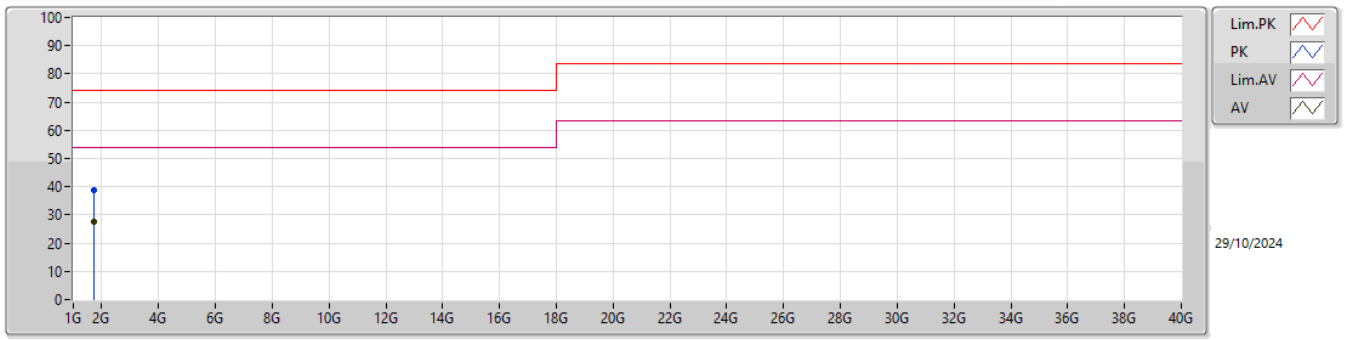
EUT Y_2TX
Setting 22
03-V-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.63006G	49.11	74.00	-24.89	64.21	3	Horizontal	18	2.03	-	39.20	11.68	65.98
AV	11.62997G	42.93	54.00	-11.07	58.03	3	Horizontal	18	2.03	-	39.20	11.68	65.98
PK	17.44319G	48.84	108.20	-59.36	56.04	3	Horizontal	223	1.52	-	42.05	13.98	63.23
RMS	17.44457G	36.93	88.20	-51.27	44.12	3	Horizontal	223	1.52	-	42.06	13.98	63.23

Summary

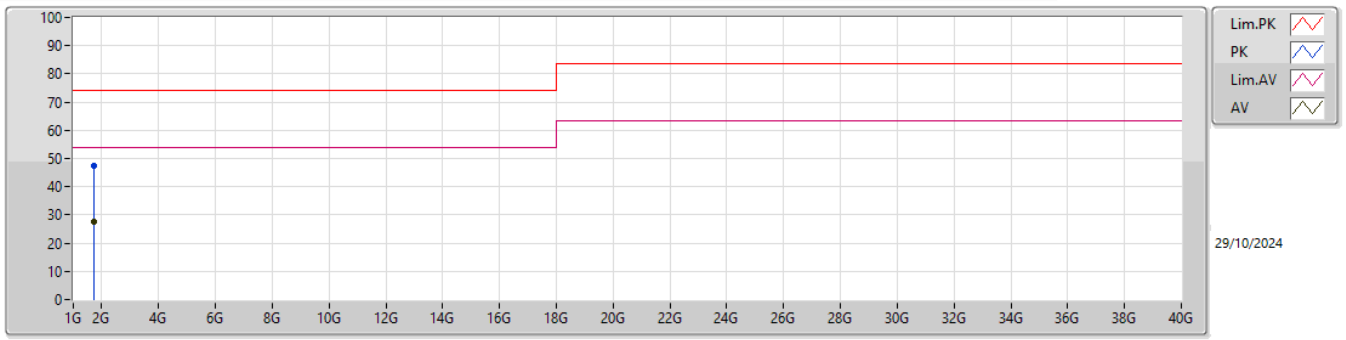
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.74709G	27.70	54.00	-26.30	Horizontal

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
PK	1.74122G	38.99	74.00	-35.01	-3.64	3	Vertical	114	1.80	-	42.63	26.49	4.78	34.91
AV	1.74659G	27.57	54.00	-26.43	-3.68	3	Vertical	114	1.80	"Worst"	31.25	26.43	4.80	34.91

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)	(dB/m)	(dB)	(dB)
PK	1.74062G	47.24	74.00	-26.76	-3.64	3	Horizontal	0	1.78	-	50.88	26.49	4.78	34.91
AV	1.74709G	27.70	54.00	-26.30	-3.68	3	Horizontal	0	1.78	"Worst"	31.38	26.43	4.80	34.91