Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	TLZ-XM666
Equipment	:	IEEE 802.11 a/b/g/n/ac/ax Wireless LAN 1T1R and BLE/802.15.4 Solution Family 12 x 12 LGA Module
Brand Name	:	AzureWave
Model Name	:	AW-XM646G-SUR,AW-XM646G-USB,AW-XM646F-SUR, AW-XM646F-USB,AW-XM646C-SUR,AW-XM646C-USB, AW-XM646B-SUR,AW-XM646B-USB
Applicant	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard	:	47 CFR FCC Part 15.407

The product was received on Feb. 21, 2025, and testing was started from Mar. 21, 2025 and completed on Jun. 09, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
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History of this test report

Report No.	Version	Description	Issued Date
FR521124-01AE	01	Initial issue of report	Jun. 13, 2025

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	Data Referencing
3.2	15.407(a)	Emission Bandwidth	PASS	Data Referencing
3.3	15.407(a)	Maximum EIRP Output Power	PASS	Data Referencing
3.4	15.407(a)	EIRP Power Spectral Density	PASS	Data Referencing
3.5	15.407(b)	Unwanted Emissions	PASS	Data Referencing

Data Referencing Statement:
This report references test data from the parent device (Original Sporton Report No.: FR521124AE, FCC ID: TLZ-XM646).
The variant device (FCC ID: TLZ-XM666) is electrically identical to the parent device for the portions of the circuitry corresponding to the data referencing.
The differences compared to the parent device are as follows:
Increase in maximum output power rating for Bluetooth and thread via software change. The variant has the same components (no depopulation)
The details of spot-check testing are at the discretion of the applicant's engineering judgment. Accordingly, only the following items were spot-checked on the worst-case channel identified in the original report, and all results are included in this report:
1. Maximum EIRP Output Power
2. EIRP Power Spectral Density
3. Unwanted Emissions
The applicant takes full responsibility that the test data as referenced in FCC ID: TLZ-XM646 represents compliance with the new FCC ID: TLZ-XM666.

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: Vicky Huang

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)	5845-5885	169-177 [3]

Band	Mode	BWch	Nant
5.725-5.895GHz	802.11a	20	1TX
5.725-5.895GHz	802.11n HT20	20	1TX
5.725-5.895GHz	802.11ac VHT20	20	1TX
5.725-5.895GHz	802.11ax HEW20	20	1TX

Note:
- 11a, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						WLAN 2.4GHz, Bluetooth and Thread	WLAN 5GHz
1	1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA Antenna	I-PEX	3.5	5

Note 1: The above information was declared by manufacturer.

Note 2: **For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax (1TX/1RX):

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

For 5GHz function:

For IEEE 802.11a/n/ac/ax (1TX/1RX):

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

For Bluetooth/Thread function (1TX/1RX):

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

1.1.3 Test Mode of Partial RU

Mode	Partial RU		
802.11ax HEW20	26	52	106

1.1.4 Mode Test Duty Cycle

For Full RU:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.996	0.02	5.753m	10Hz (DC>=0.98)
802.11ax HEW20_Nss 1,(M0)	0.994	0.03	7.369m	10Hz (DC>=0.98)

For Partial RU:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11ax HEW20_Nss 1,(M0),RU26	0.957	0.19	1.362m	1k
802.11ax HEW20_Nss 1,(M0),RU52	0.957	0.19	1.362m	1k
802.11ax HEW20_Nss 1,(M0),RU106	0.956	0.2	1.359m	1k

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

1.1.5 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Device Type	☐	Indoor Access Point	☐	Subordinate
	☒	Indoor Client		
Channel Puncturing Function	☐	Supported Static Puncturing		
	☐	Supported Dynamic Puncturing (Reduce BW)		
	☒	Unsupported		
Support RU	☒	Full RU	☒	Partial RU
Test Software Version	labtool 2.0.0.22			

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

The difference for each model is shown as below:

EUT	Model Name	WLAN 2.4G	WLAN 5G	Bluetooth	802.15.4	Interface
1	AW-XM646G-SUR	V	V	V	V	SUR
2	AW-XM646G-USB	V	V	V	V	USB
-	AW-XM646F-SUR	V	V	V	X	SUR
-	AW-XM646F-USB	V	V	V	X	USB
-	AW-XM646C-SUR	V	X	V	V	SUR
-	AW-XM646C-USB	V	X	V	V	USB
-	AW-XM646B-SUR	V	X	V	X	SUR
-	AW-XM646B-USB	V	X	V	X	USB
Description						
In addition to the differences mentioned above, there are differences in marketing strategy.						

Note 1: From the above EUT, EUT 1 and 2 were selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

- FCC KDB 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	TH01-CB	Mason Chen	21.2~22.6 / 58~61	Mar. 24, 2025~ Mar. 29, 2025
Radiated below 1GHz	03CH06-CB	Eason Chen	21.9~23.1 / 60~62	Mar. 21, 2025~ Mar. 29, 2025
Radiated above 1GHz	03CH02-CB	Eason Chen	21.5~23.3 / 58~61	Mar. 21, 2025~ Mar. 29, 2025
Radiated Co-Location	03CH03-CB	Eason Chen	21.6~23.1 / 58~62	May 13, 2025~ May 20, 2025
AC Conduction	CO02-CB	Joe Chu	23~24 / 50~51	Apr. 07, 2025
Spot Check	TH03-CB	Jay Lo	21.2~22.6 / 58~61	May 15, 2025~ Jun. 06, 2025
	03CH04-CB	Eason Chen	21.4~22.6 / 57~61	May 13, 2025~ Jun. 09, 2025

Note:
The tested sample for Radiated Emission Co-location and Spot Check tests was received on May 06, 2025.

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 Date: After May 27, 2025

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%

Test Date: Before May 28, 2025

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For Full RU:

Mode
802.11a_Nss1,(6Mbps)_1TX
5845MHz
5865MHz
5885MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
5845MHz
5865MHz
5885MHz

For Partial RU:

Mode
802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX
5865MHz
802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX
5865MHz
802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX
5865MHz
802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX
5885MHz
802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX
5885MHz
802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX
5885MHz

Note:
- HEW20 covers HT20/VHT20 due to similar modulation. The power setting for HT20/VHT20 is the same or lower than HEW20.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
	The EUT was performed at EUT 1 and EUT 2, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 + WLAN 5GHz

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum EIRP Output Power
Test Condition	Conducted measurement at transmit chains
The EUT was performed at EUT 1 and EUT 2 for Radiated emission above 1GHz test, and the worst case was found as EUT 2. Thus, the measurement will follow this same test configuration.	
1	EUT 2

The Worst Case Mode for Following Conformance Tests	
Tests Item	EIRP Power Spectral Density
Test Condition	Conducted measurement at transmit chains
The EUT was performed at EUT 1 and EUT 2 for Radiated emission above 1GHz test, and the worst case was found as EUT 2. Thus, the measurement will follow this same test configuration.	
1	EUT 2 - Full RU
2	EUT 2 - Partial RU

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
	1. The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found as X axis. Thus, the measurement will follow this same test configuration. 2. The EUT was performed at EUT 1 and EUT 2, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 in Z axis + WLAN 5GHz
Operating Mode > 1GHz	CTX
	1. The EUT was performed at X axis, Y axis and Z axis position the worst case was found as below. Thus, the measurement will follow this same test configuration. 2. The EUT 1 and EUT 2 performed the testing, and the worst case was found in EUT 2. Thus, the measurement will follow this same test configuration
1	EUT 2 in Z axis - Full RU
2	EUT 2 in Z axis - Partial RU

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at EUT 1 and EUT 2 for Radiated emission above 1GHz test, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 + Bluetooth + WLAN 2.4GHz
2	EUT 1 + Bluetooth + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
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	Bluetooth + WLAN 2.4GHz
2	Bluetooth + WLAN 5GHz
Refer to Sporton Test Report No.: FA521124-01 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For Normal Link:

During the test, the EUT operation to normal function.

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	EUT Fixture	Azurewave	2460-i4	N/A
B	WLAN/Bluetooth Fixture	Azurewave	2460-i6	N/A
C	NB	DELL	E6430	N/A
D	Earphone	e-Power	GT02	N/A
E	Mouse	Acer	MOBVUO	N/A

For Radiated(other), Radiated (Spot check) and RF Conducted:

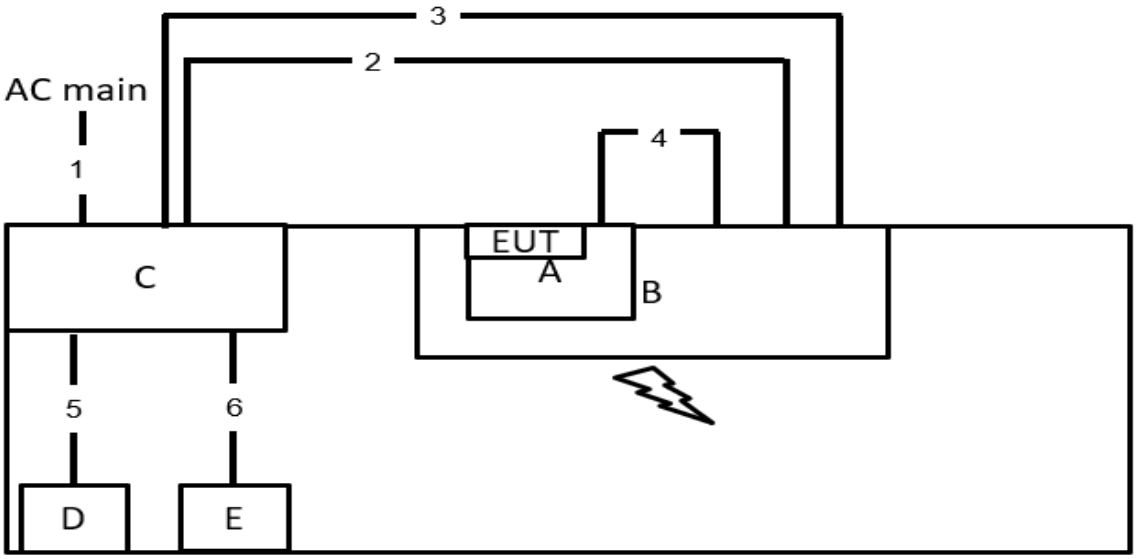
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	WLAN/Bluetooth Fixture	AzureWave	2460-i6	N/A
C	EUT Fixture	Azurewave	2460-i4	N/A

For RF Conducted (Spot check):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	WLAN/Bluetooth Fixture	AzureWave	2460-i6	N/A
D	EUT Fixture	Azurewave	2460-i4	N/A

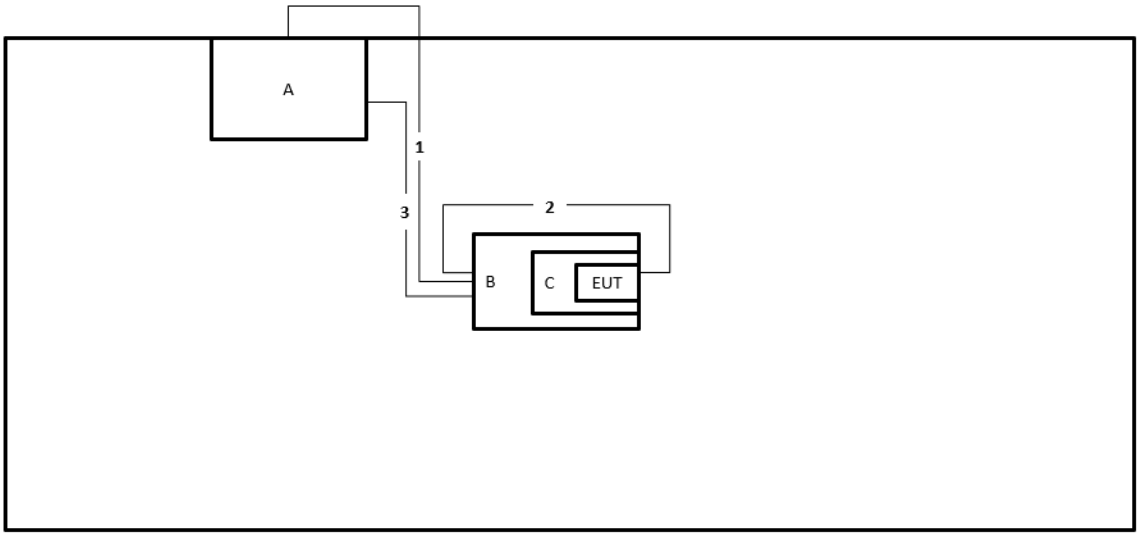
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



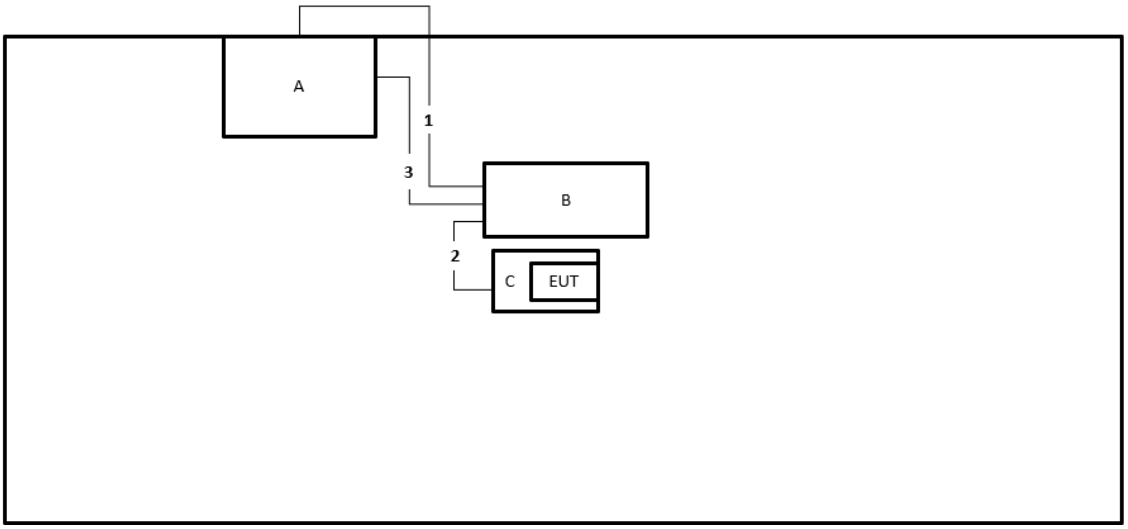
Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	Type C USB cable	Yes	1m
3	RJ-45 cable	No	1.5m
4	Type C TO Type C USB cable	Yes	1m
5	Audio cable	No	1.2m
6	USB cable	Yes	1.2m

Test Setup Diagram - Radiated < 1GHz Test



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	Type C USB cable	Yes	1m
3	Type C USB cable	Yes	1m

Test Setup Diagram - Radiated > 1GHz Test



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	Type C USB cable	Yes	1m
3	Type C USB cable	Yes	1m

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

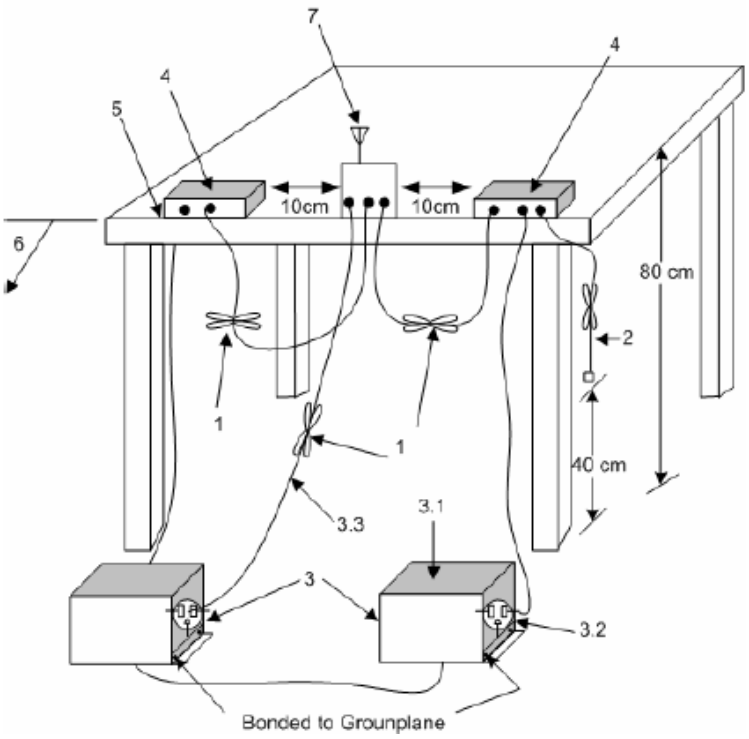
Refer a test equipment and calibration data table in this test report.

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

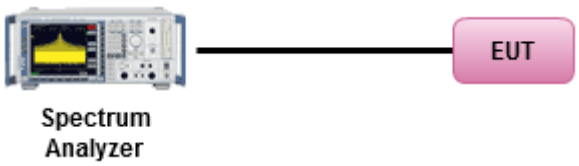
Refer a test equipment and calibration data table in this test report.

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

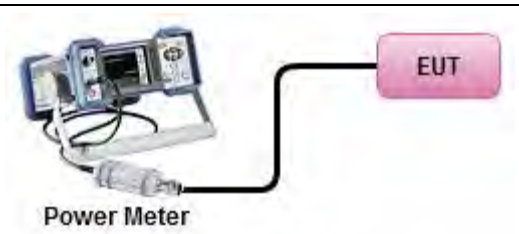
3.3.2 Measuring Instruments

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 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

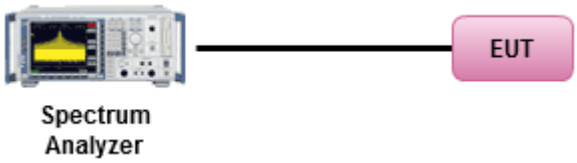
Refer a test equipment and calibration data table in this test report.

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.

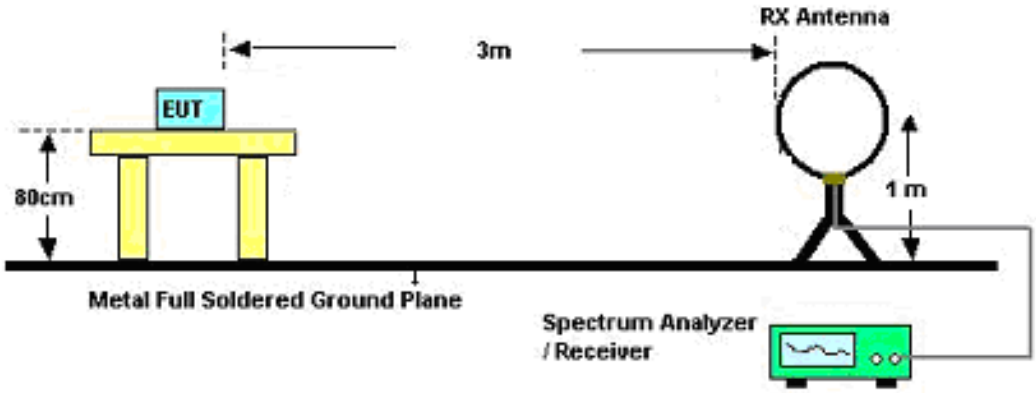
3.5.3 Test Procedures

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.		

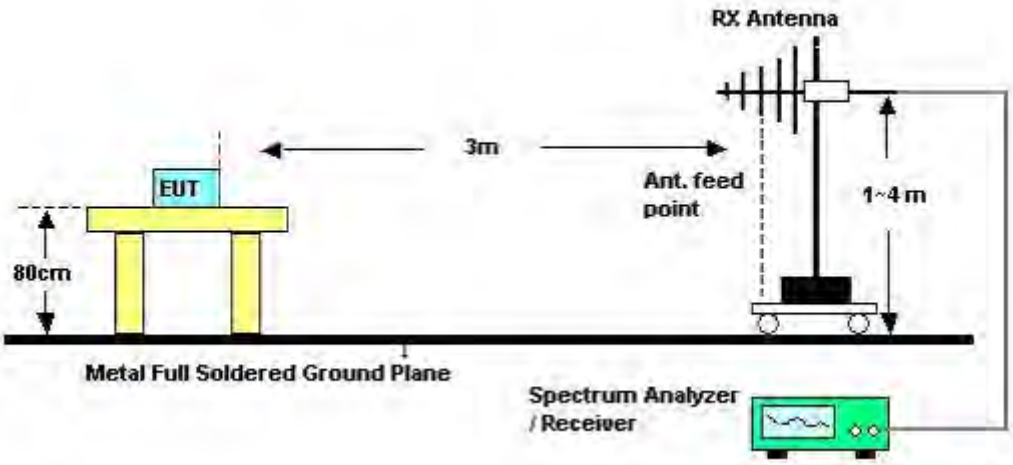
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

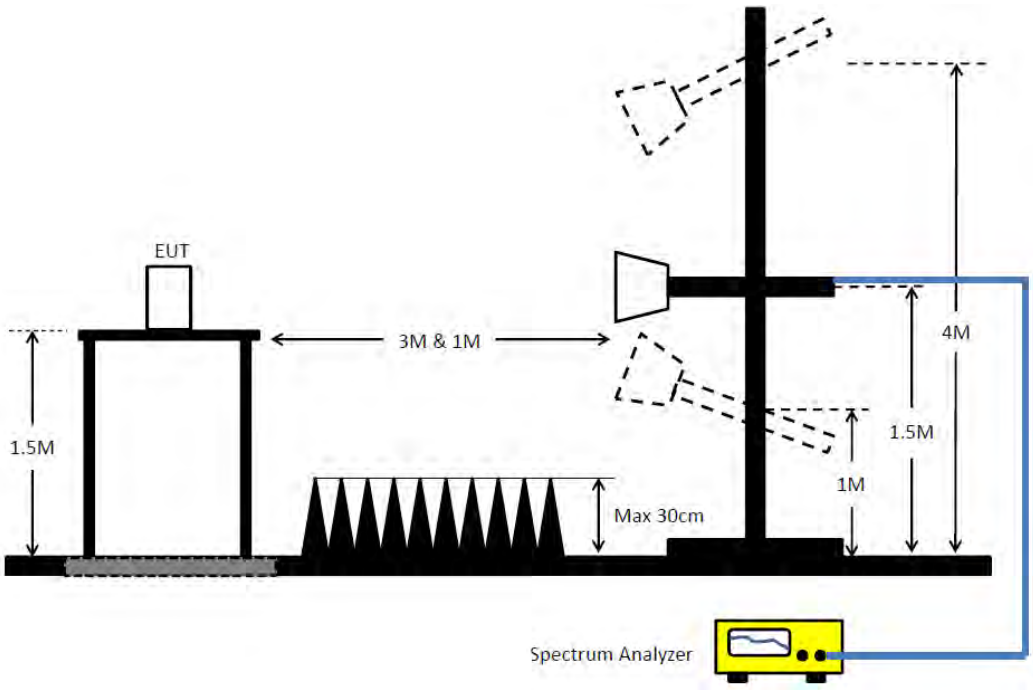
9kHz ~30MHz



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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 02, 2024	Aug. 01, 2025	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 02, 2024	Nov. 01, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+68	30MHz~1GHz	Oct. 24, 2024	Oct. 23, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 23, 2025	Mar. 22, 2026	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	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 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. 25, 2024	Nov. 24, 2025	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz-7.115G Hz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS·Lindgren	3115	6821	750MHz~18GHz	Feb. 20, 2025	Feb. 19, 2026	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 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. 25, 2024	Nov. 24, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2024	Dec. 19, 2025	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 24, 2025	Mar. 23, 2026	Radiation (03CH04-CB
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH04-CB)

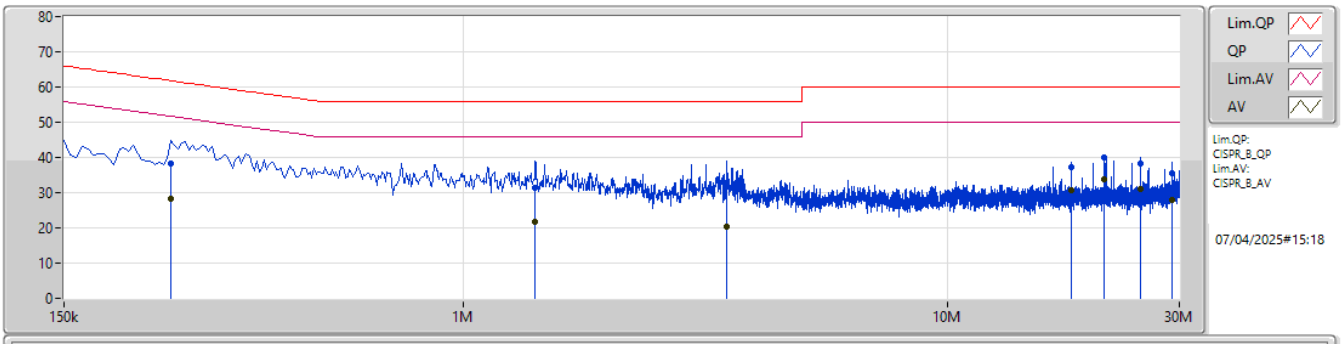
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2024	May 26, 2025	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Mar. 01, 2024	Feb. 28, 2025	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	MY45100745	50MHz~18GHz	Jul. 12, 2024	Jul. 11, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	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. 06, 2024	Sep. 05, 2025	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. 01, 2024	Sep. 30, 2025	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. 01, 2024	Sep. 30, 2025	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	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

Summary

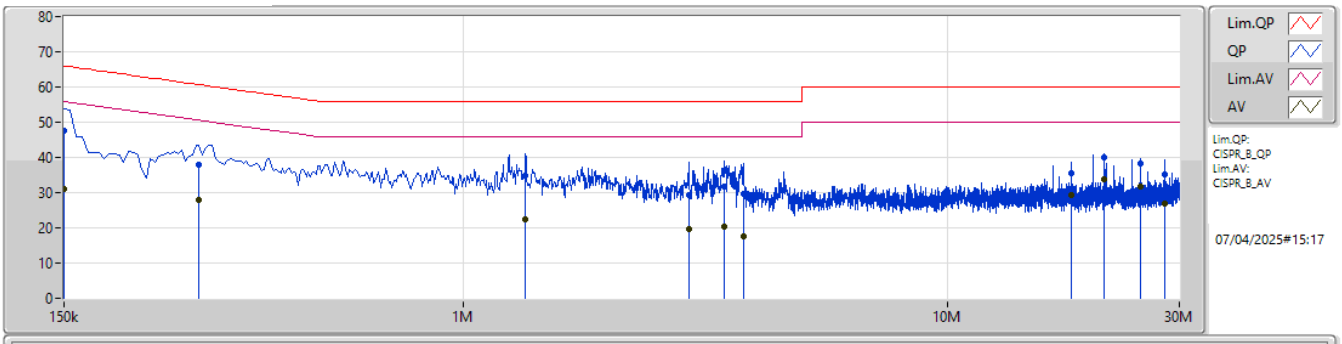
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	20.949M	33.85	50.00	-16.15	Neutral

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	249k	38.11	61.79	-23.68	10.15	Line	-	27.96	0.05	0.08	10.02
AV	249k	28.18	51.79	-23.61	10.15	Line	-	18.03	0.05	0.08	10.02
QP	1.406M	31.23	56.00	-24.77	10.21	Line	-	21.02	0.08	0.11	10.02
AV	1.406M	21.83	46.00	-24.17	10.21	Line	-	11.62	0.08	0.11	10.02
QP	3.489M	32.03	56.00	-23.97	10.31	Line	-	21.72	0.11	0.15	10.05
AV	3.489M	20.40	46.00	-25.60	10.31	Line	-	10.09	0.11	0.15	10.05
QP	17.957M	37.13	60.00	-22.87	10.68	Line	-	26.45	0.37	0.29	10.02
AV	17.957M	30.66	50.00	-19.34	10.68	Line	-	19.98	0.37	0.29	10.02
QP	20.949M	39.95	60.00	-20.05	10.75	Line	-	29.20	0.41	0.33	10.01
AV	20.949M	33.68	50.00	-16.32	10.75	Line	"Worst"	22.93	0.41	0.33	10.01
QP	24.941M	38.29	60.00	-21.71	10.84	Line	-	27.45	0.50	0.31	10.03
AV	24.941M	31.06	50.00	-18.94	10.84	Line	-	20.22	0.50	0.31	10.03
QP	28.932M	35.57	60.00	-24.43	11.00	Line	-	24.57	0.58	0.33	10.09
AV	28.932M	27.88	50.00	-22.12	11.00	Line	-	16.88	0.58	0.33	10.09

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	47.72	66.00	-18.28	10.15	Neutral	-	37.57	0.05	0.08	10.02
AV	150k	31.06	56.00	-24.94	10.15	Neutral	-	20.91	0.05	0.08	10.02
QP	285k	37.97	60.67	-22.70	10.17	Neutral	-	27.80	0.05	0.09	10.03
AV	285k	27.97	50.67	-22.70	10.17	Neutral	-	17.80	0.05	0.09	10.03
QP	1.343M	34.67	56.00	-21.33	10.20	Neutral	-	24.47	0.07	0.11	10.02
AV	1.343M	22.31	46.00	-23.69	10.20	Neutral	-	12.11	0.07	0.11	10.02
QP	2.918M	29.43	56.00	-26.57	10.29	Neutral	-	19.14	0.10	0.15	10.04
AV	2.918M	19.81	46.00	-26.19	10.29	Neutral	-	9.52	0.10	0.15	10.04
QP	3.449M	31.83	56.00	-24.17	10.30	Neutral	-	21.53	0.10	0.15	10.05
AV	3.449M	20.48	46.00	-25.52	10.30	Neutral	-	10.18	0.10	0.15	10.05
QP	3.777M	29.49	56.00	-26.51	10.32	Neutral	-	19.17	0.11	0.15	10.06
AV	3.777M	17.68	46.00	-28.32	10.32	Neutral	-	7.36	0.11	0.15	10.06
QP	17.957M	35.64	60.00	-24.36	10.56	Neutral	-	25.08	0.25	0.29	10.02
AV	17.957M	29.20	50.00	-20.80	10.56	Neutral	-	18.64	0.25	0.29	10.02
QP	20.949M	40.03	60.00	-19.97	10.61	Neutral	-	29.42	0.27	0.33	10.01
AV	20.949M	33.85	50.00	-16.15	10.61	Neutral	"Worst"	23.24	0.27	0.33	10.01
QP	24.941M	38.36	60.00	-21.64	10.64	Neutral	-	27.72	0.30	0.31	10.03
AV	24.941M	31.77	50.00	-18.23	10.64	Neutral	-	21.13	0.30	0.31	10.03
QP	27.938M	35.21	60.00	-24.79	10.71	Neutral	-	24.50	0.32	0.32	10.07
AV	27.938M	26.73	50.00	-23.27	10.71	Neutral	-	16.02	0.32	0.32	10.07

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)_1TX	16.445M	16.706M	16M7D1D	16.335M	16.525M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.865M	18.895M	18M9D1D	17.655M	18.764M

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

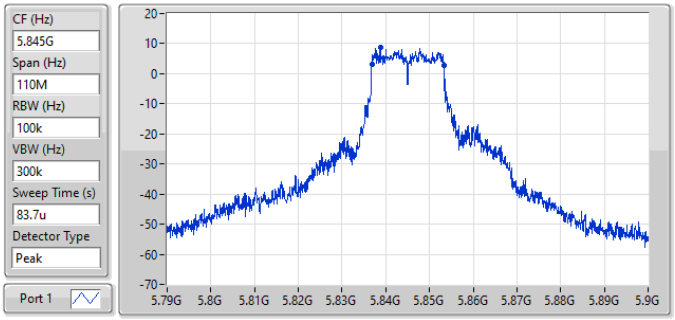
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5845MHz	Pass	500k	16.445M	16.706M
5865MHz	Pass	500k	16.335M	16.585M
5885MHz	Pass	500k	16.445M	16.525M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5845MHz	Pass	500k	17.655M	18.893M
5865MHz	Pass	500k	18.865M	18.895M
5885MHz	Pass	500k	17.875M	18.764M

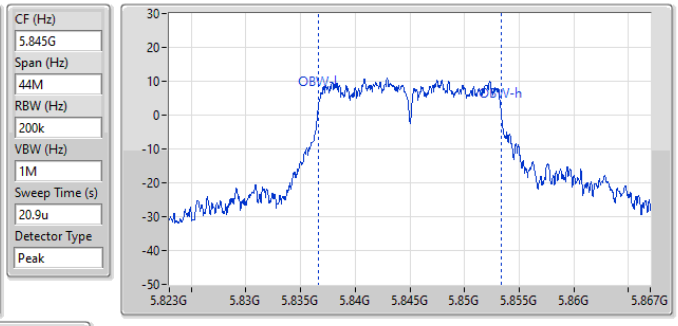
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5845MHz

28/03/2025



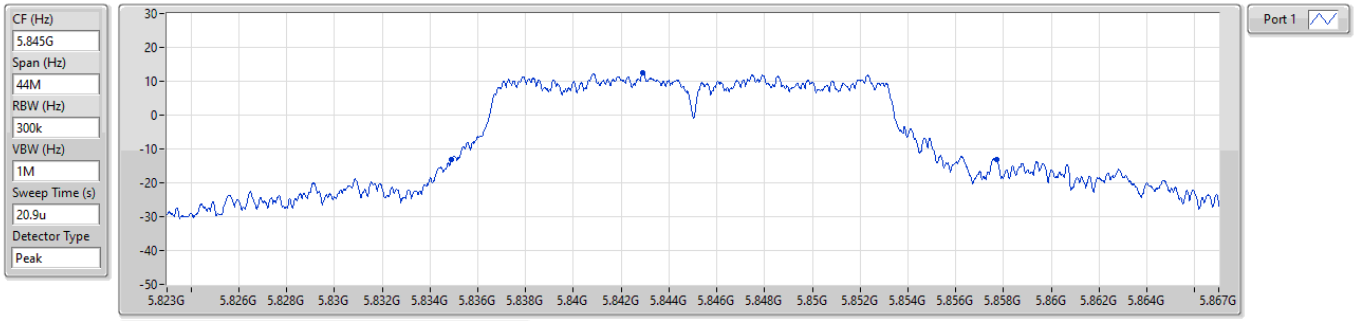


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.445M	5.836805G	5.85325G	16.706M	5.83667G	5.853376G	500k	1

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5845MHz

28/03/2025

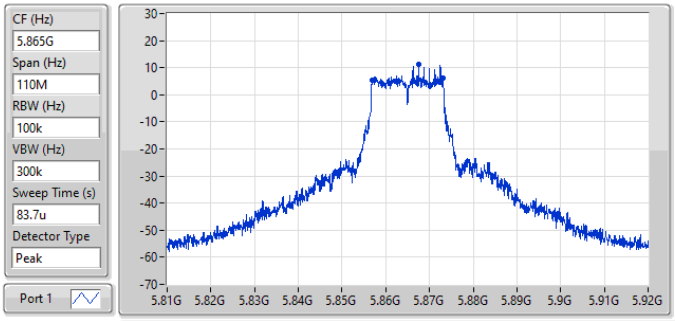


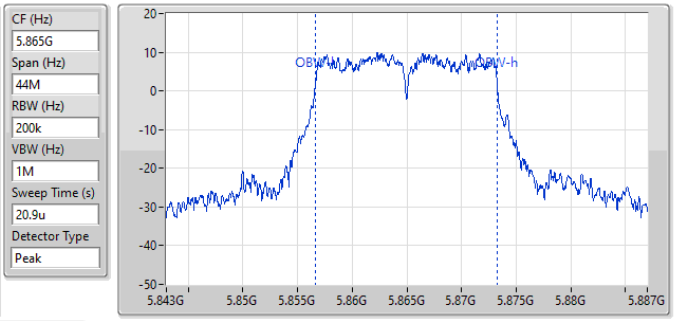
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.792M	5.834902G	5.857694G	Inf	1

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5865MHz

28/03/2025



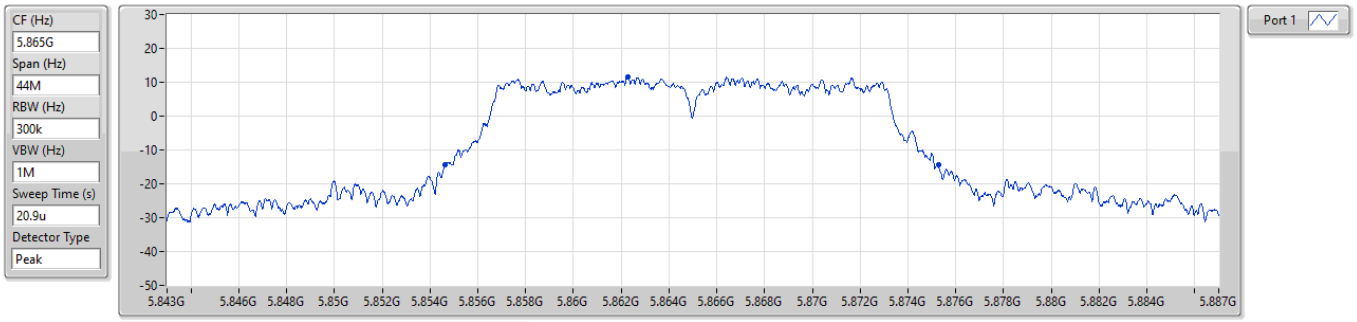


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.335M	5.856805G	5.87314G	16.585M	5.856655G	5.87324G	500k	1

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5865MHz

28/03/2025

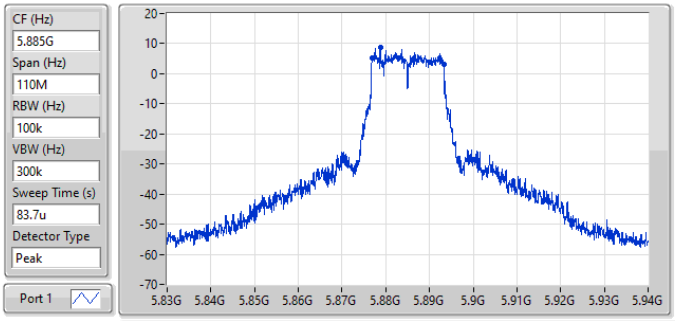


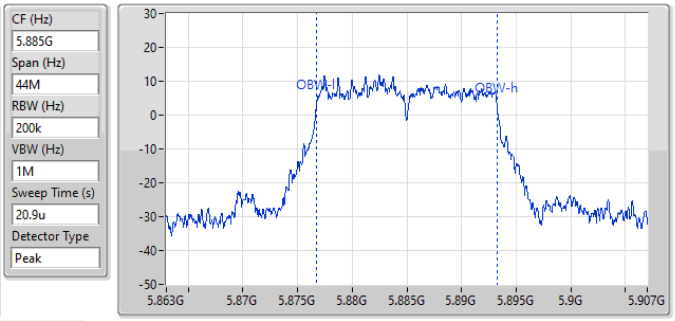
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.636M	5.854638G	5.875274G	Inf	1

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5885MHz

28/03/2025



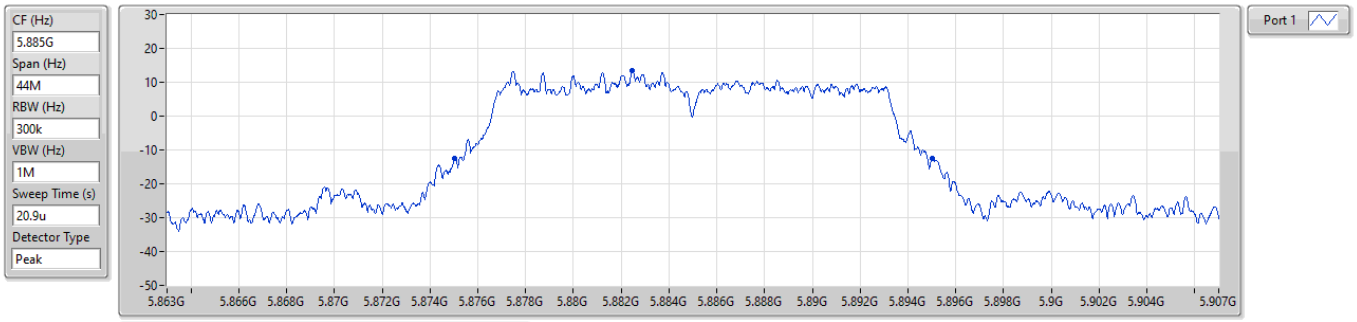


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.445M	5.876805G	5.89325G	16.525M	5.876736G	5.893261G	500k	1

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5885MHz

28/03/2025

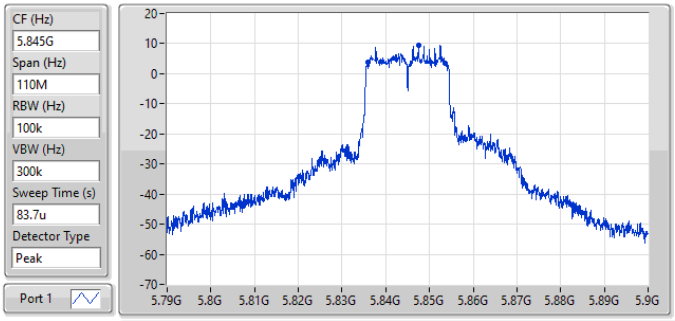


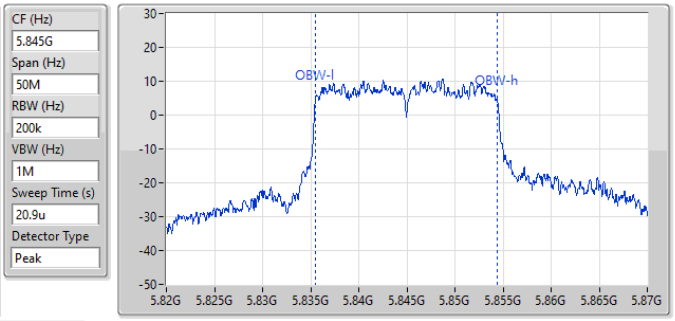
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.02M	5.875012G	5.895032G	Inf	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5845MHz

28/03/2025



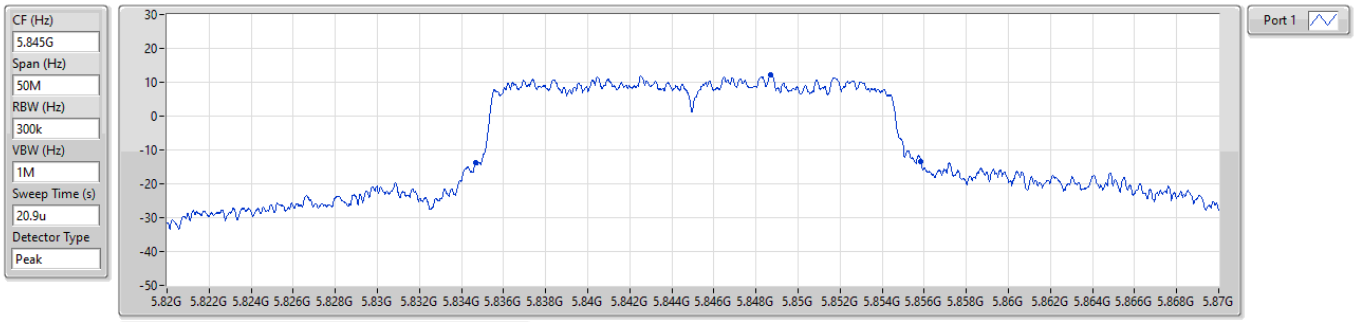


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.655M	5.836035G	5.85369G	18.893M	5.835541G	5.854434G	500k	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5845MHz

28/03/2025

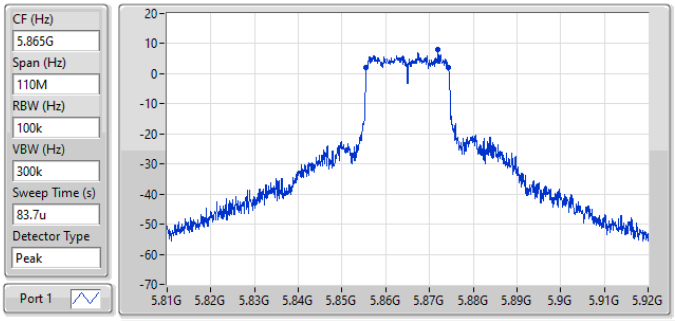


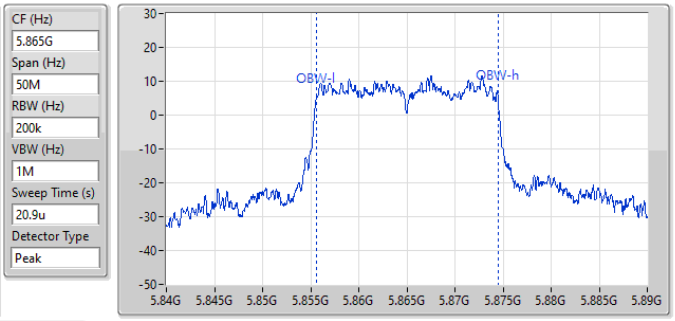
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.2M	5.83465G	5.85585G	Inf	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5865MHz

28/03/2025



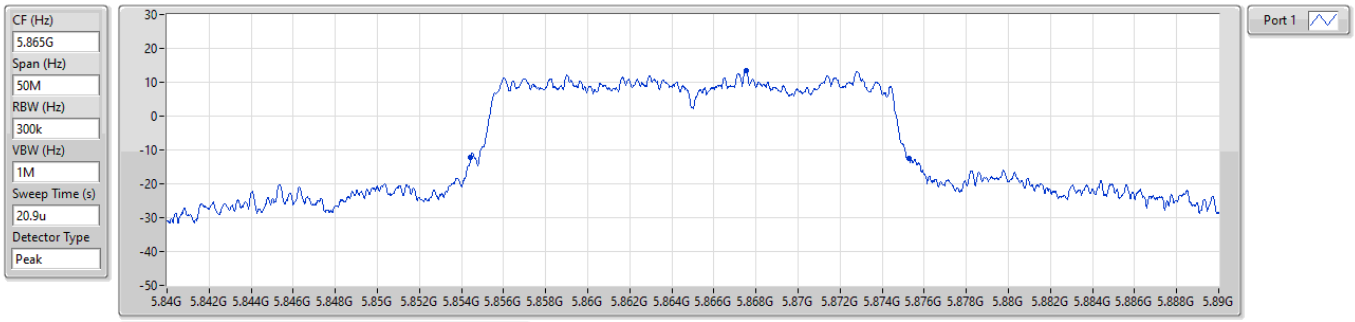


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.865M	5.85554G	5.874405G	18.895M	5.855565G	5.874459G	500k	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5865MHz

28/03/2025

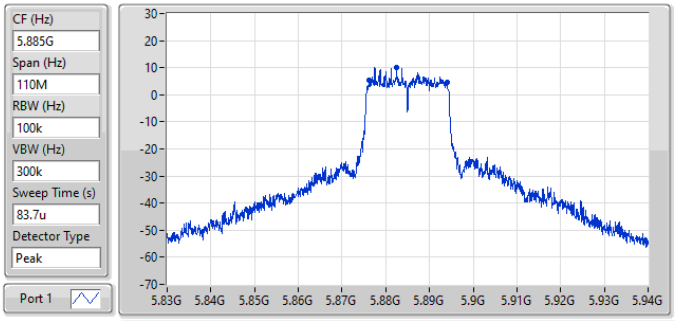


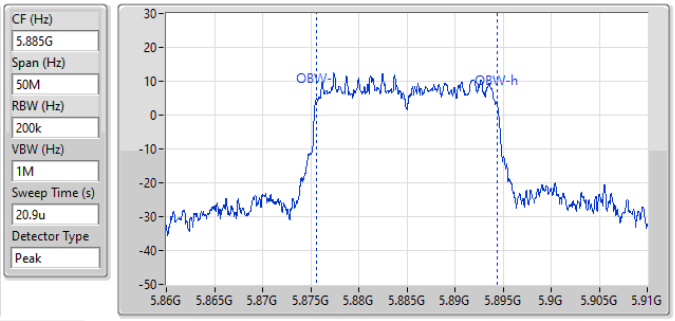
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.85M	5.854425G	5.875275G	Inf	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5885MHz

28/03/2025



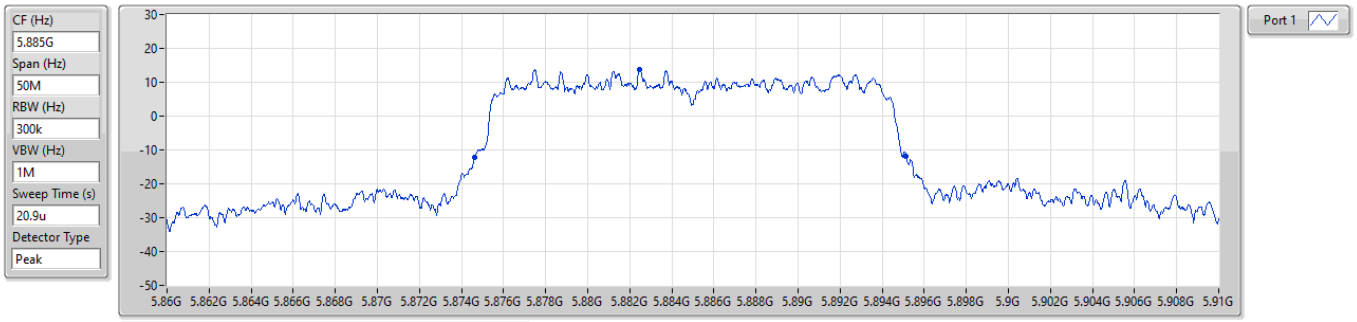


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.875M	5.876255G	5.89413G	18.764M	5.875578G	5.894342G	500k	1

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5885MHz

28/03/2025



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.525M	5.874625G	5.89515G	Inf	1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	22.35	0.17179	27.35	0.54325
802.11ax HEW20_Nss1,(MCS0)_1TX	22.23	0.16711	27.23	0.52845

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5845MHz	Pass	5.00	22.35	22.35	Inf	27.35	30.00
5865MHz	Pass	5.00	21.74	21.74	Inf	26.74	30.00
5885MHz	Pass	5.00	21.64	21.64	Inf	26.64	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5845MHz	Pass	5.00	22.18	22.18	Inf	27.18	30.00
5865MHz	Pass	5.00	22.23	22.23	Inf	27.23	30.00
5885MHz	Pass	5.00	22.09	22.09	Inf	27.09	30.00

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

Test Mode: Mode 1
Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	8.87	13.87
802.11ax HEW20_Nss1,(MCS0)_1TX	8.81	13.81

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

Result

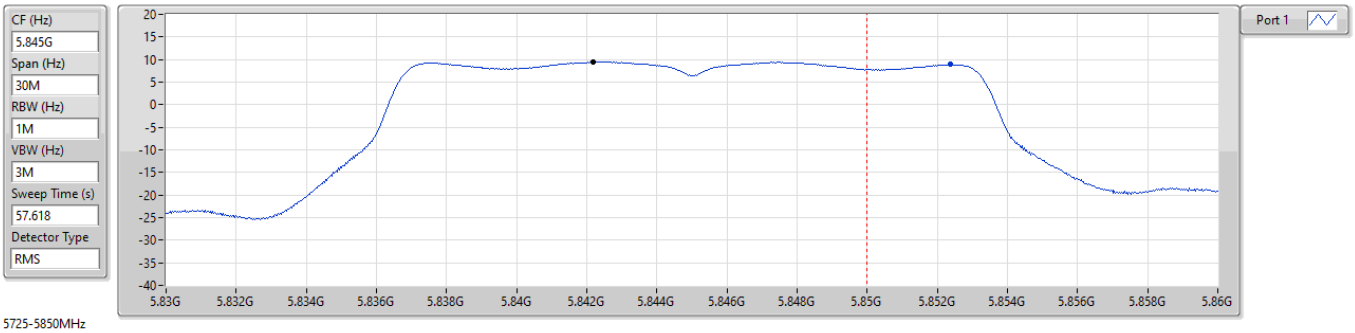
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5845MHz	Pass	5.00	8.87	8.87	Inf	13.87	14.00
5865MHz	Pass	5.00	8.86	8.86	Inf	13.86	14.00
5885MHz	Pass	5.00	8.68	8.68	Inf	13.68	14.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5845MHz	Pass	5.00	8.37	8.37	Inf	13.37	14.00
5865MHz	Pass	5.00	8.81	8.81	Inf	13.81	14.00
5885MHz	Pass	5.00	8.75	8.75	Inf	13.75	14.00

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)_1TX **PSD**

5845MHz

28/03/2025



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
9.51	6.50	500k	-3.01

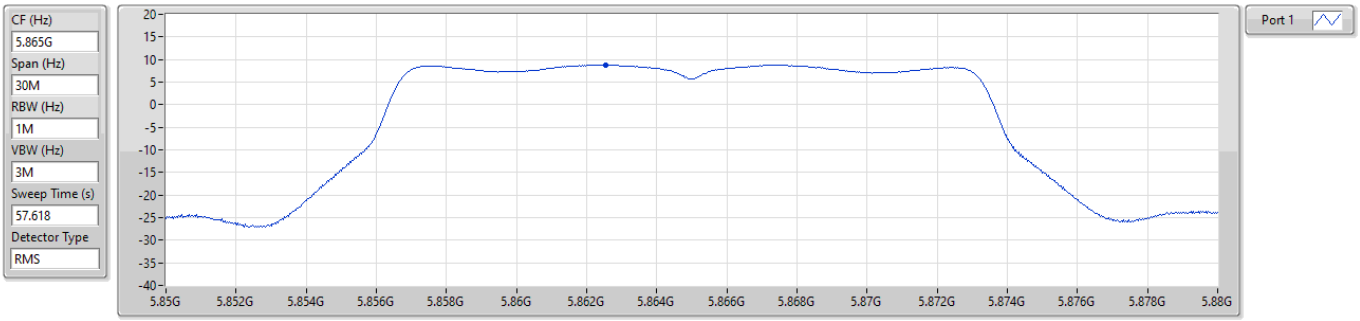
5850~5895MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.87	8.87	8.87

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5865MHz

28/03/2025

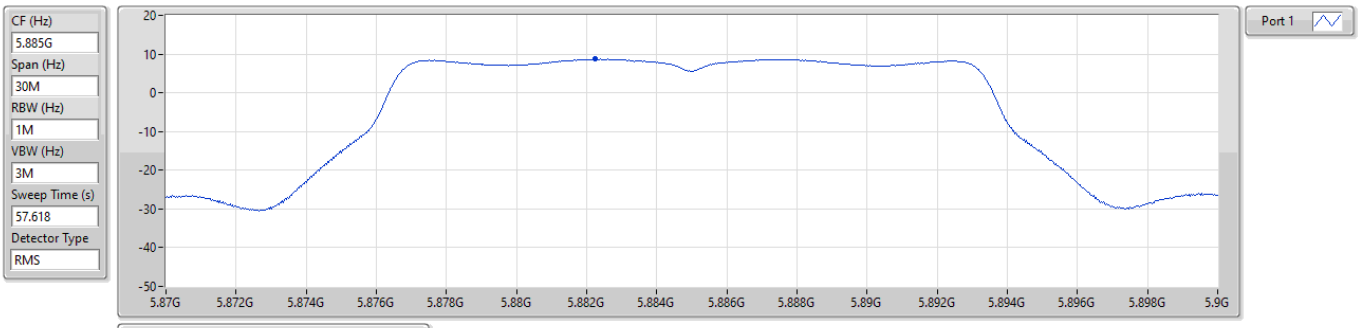


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.86	8.86	8.86

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5885MHz

28/03/2025

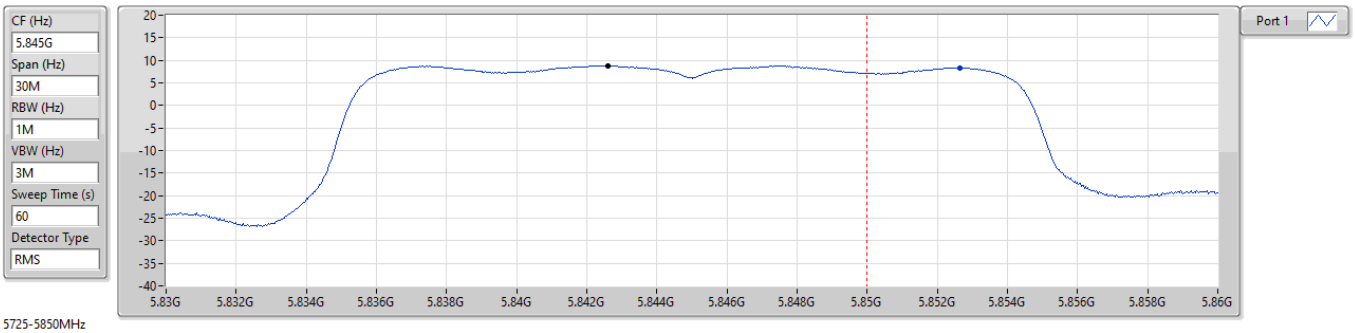


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.68	8.68	8.68

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

5845MHz

28/03/2025



5725-5850MHz

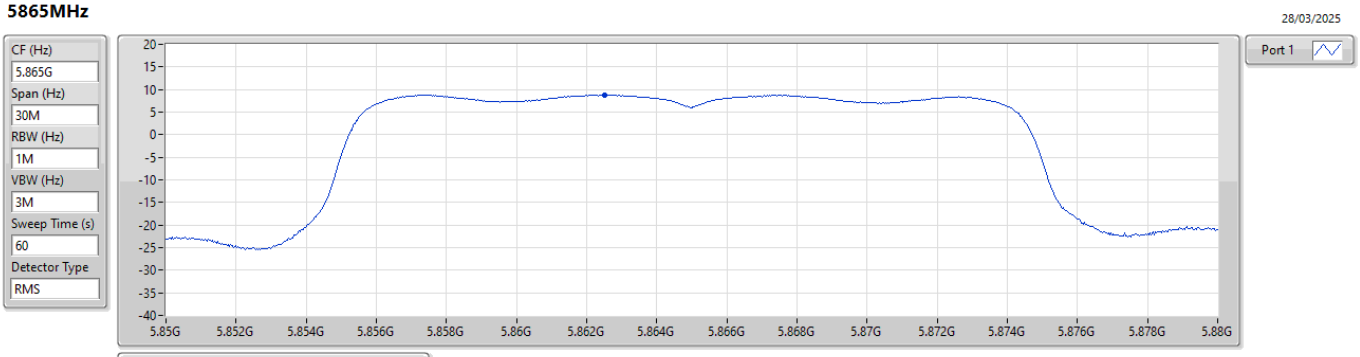
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
8.82	5.81	500k	-3.01

5850~5895MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.37	8.37	8.37

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

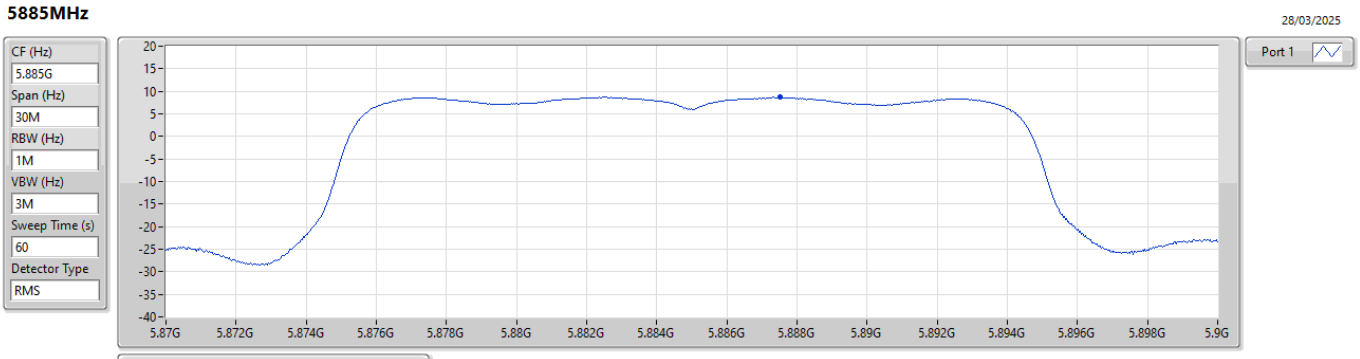
5865MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.81	8.81	8.81

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

5885MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.75	8.75	8.75

Test Mode: Mode 2
Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.895GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	8.72	13.72

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

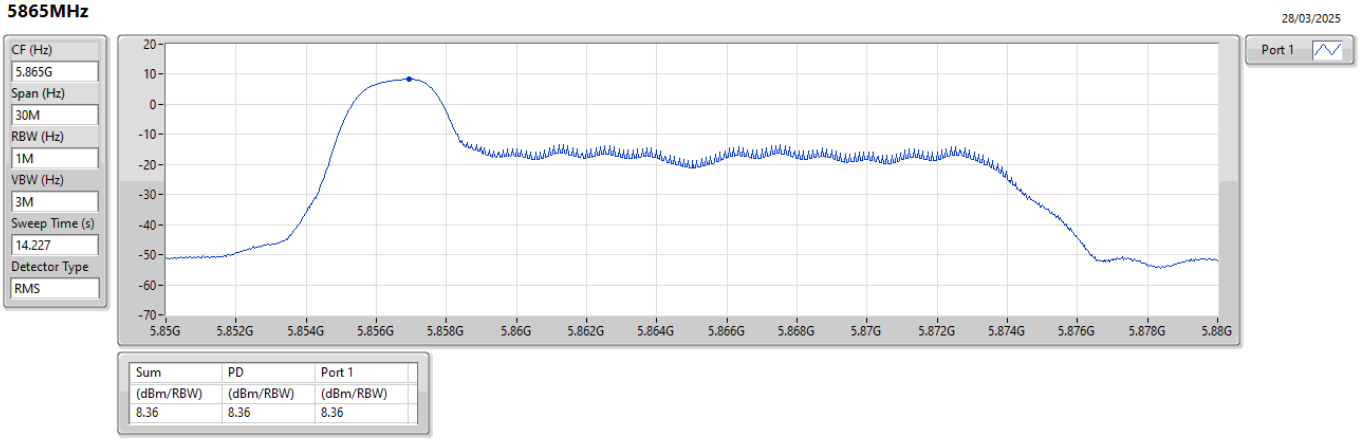
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX	-	-	-	-	-	-
5865MHz	Pass	5.00	8.36	8.36	13.36	14.00
802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX	-	-	-	-	-	-
5865MHz	Pass	5.00	8.59	8.59	13.59	14.00
802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX	-	-	-	-	-	-
5865MHz	Pass	5.00	8.55	8.55	13.55	14.00
802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX	-	-	-	-	-	-
5885MHz	Pass	5.00	8.45	8.45	13.45	14.00
802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX	-	-	-	-	-	-
5885MHz	Pass	5.00	8.21	8.21	13.21	14.00
802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX	-	-	-	-	-	-
5885MHz	Pass	5.00	8.72	8.72	13.72	14.00

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.

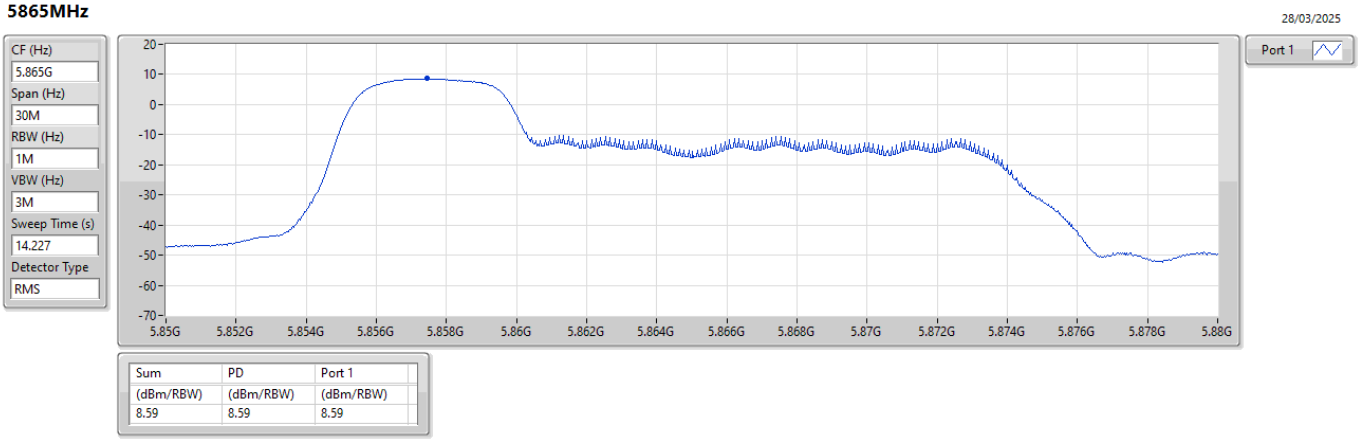
5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX **PSD**

5865MHz



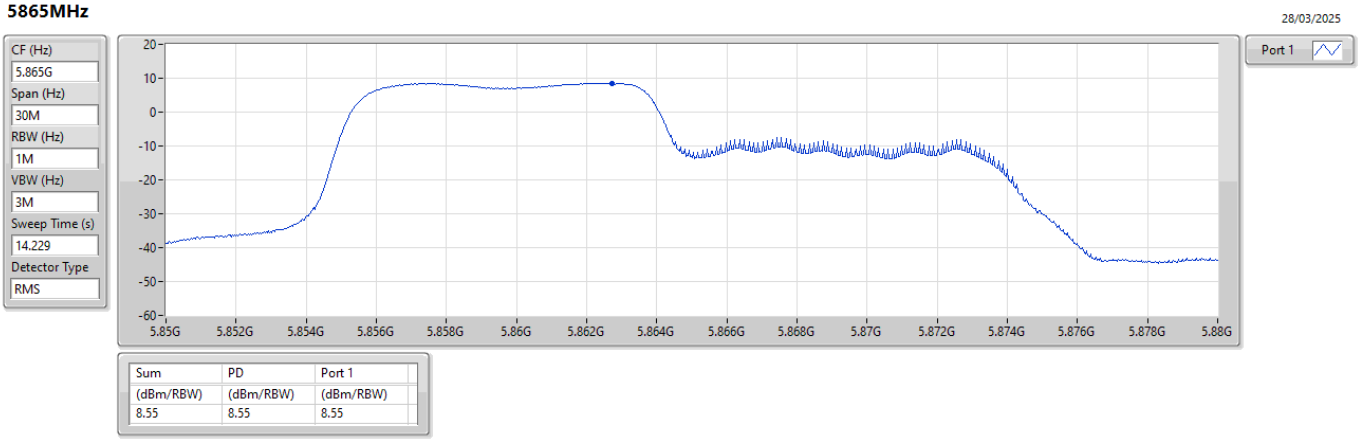
5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX **PSD**

5865MHz



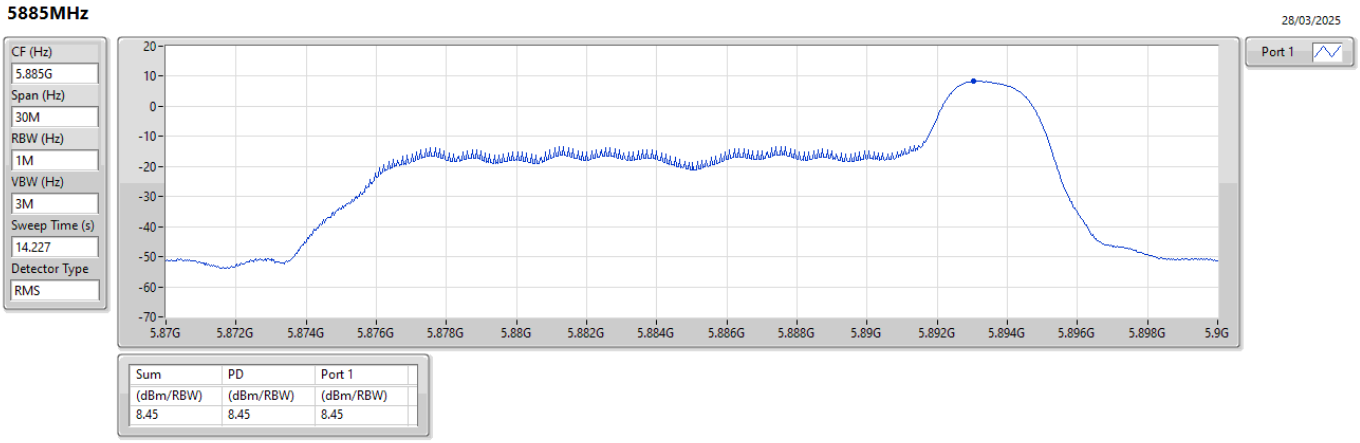
5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX **PSD**

5865MHz



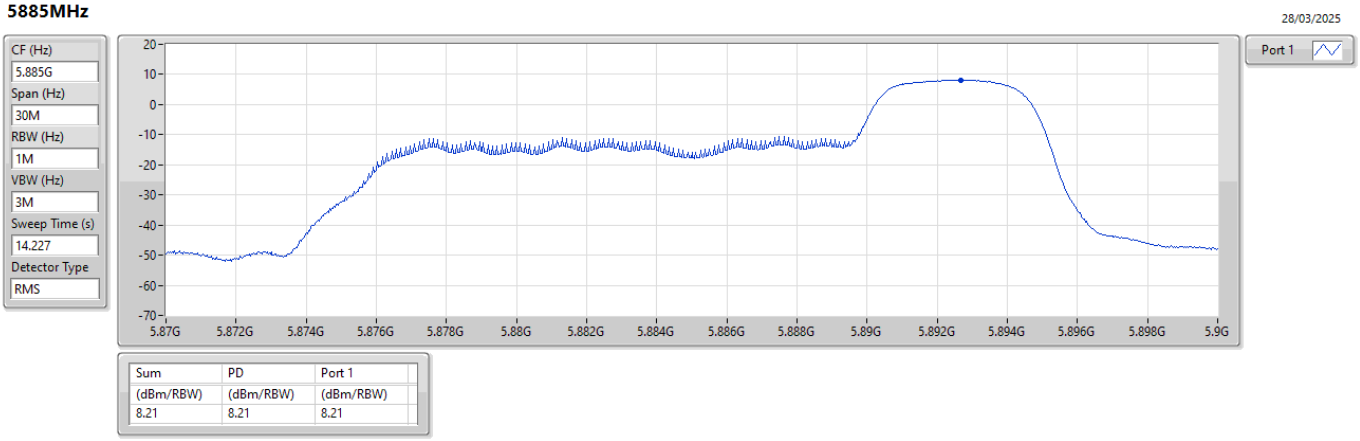
5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX **PSD**

5885MHz



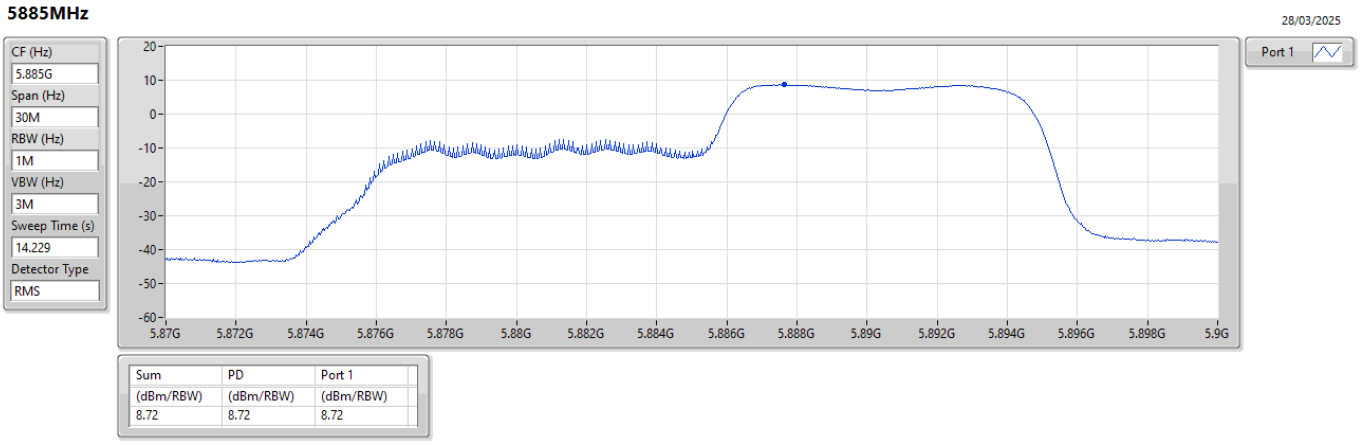
5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX **PSD**

5885MHz



5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX **PSD**

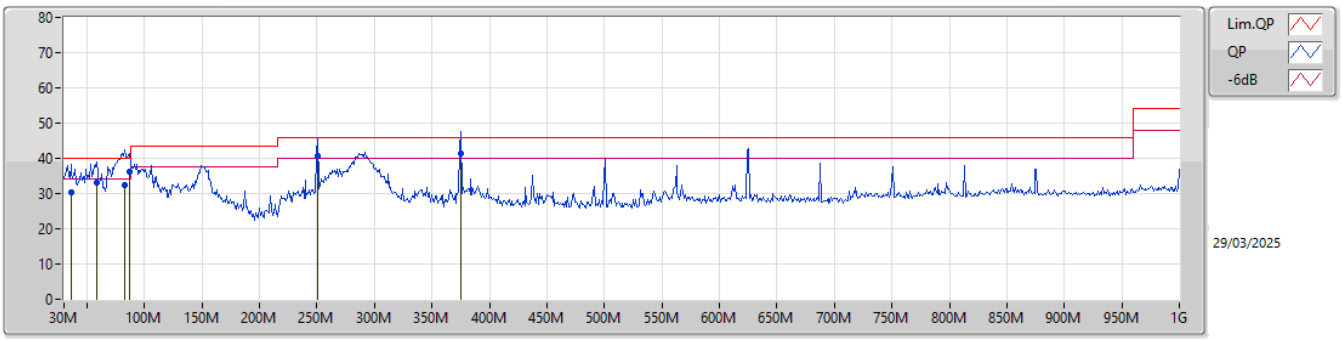
5885MHz



Summary

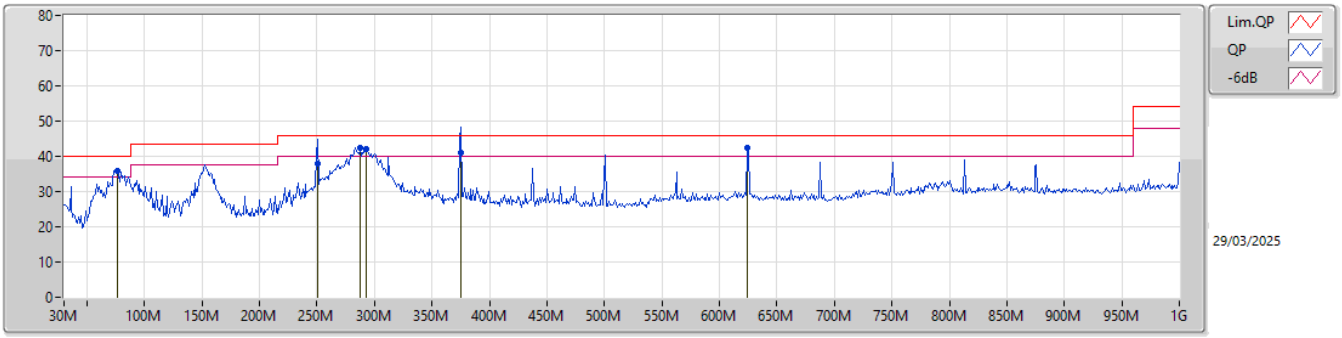
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	624.61M	42.58	46.00	-3.42	Horizontal

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	35.82M	30.27	40.00	-9.73	-10.60	3	Vertical	239	3.00	-	40.87	21.12	0.57	32.29
QP	58.13M	32.97	40.00	-7.03	-19.28	3	Vertical	267	1.00	-	52.25	12.32	0.74	32.34
QP	82.38M	32.51	40.00	-7.49	-18.28	3	Vertical	196	1.50	-	50.79	13.17	0.94	32.39
QP	87.23M	36.25	40.00	-3.75	-17.13	3	Vertical	125	1.50	"Worst"	53.38	14.20	0.97	32.30
QP	250.19M	40.71	46.00	-5.29	-12.26	3	Vertical	136	2.00	-	52.97	18.32	1.56	32.14
QP	375.32M	41.44	46.00	-4.56	-9.18	3	Vertical	99	1.50	-	50.62	20.78	1.93	31.89

Mode 1



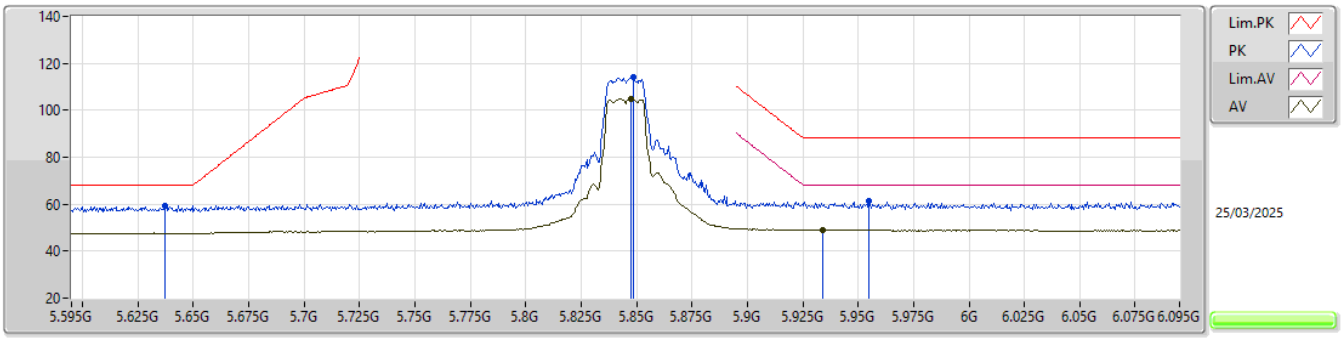
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
PK	76.56M	35.91	40.00	-4.09	-19.01	3	Horizontal	136	2.00	-	54.92	12.57	0.89	32.47
QP	250.19M	37.82	46.00	-8.18	-12.26	3	Horizontal	338	1.50	-	50.08	18.32	1.56	32.14
PK	288.02M	42.53	46.00	-3.47	-11.65	3	Horizontal	273	1.25	-	54.18	18.81	1.65	32.11
PK	292.87M	42.21	46.00	-3.79	-11.54	3	Horizontal	219	1.00	-	53.75	18.91	1.66	32.11
QP	375.32M	41.15	46.00	-4.85	-9.18	3	Horizontal	207	1.00	-	50.33	20.78	1.93	31.89
PK	624.61M	42.58	46.00	-3.42	-4.31	3	Horizontal	74	1.50	"Worst"	46.89	24.95	2.50	31.76

Test Mode: Mode 1
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	RMS	5.89555G	85.97	89.80	-3.83	3	Vertical	79	2.72	BP 1MHz

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

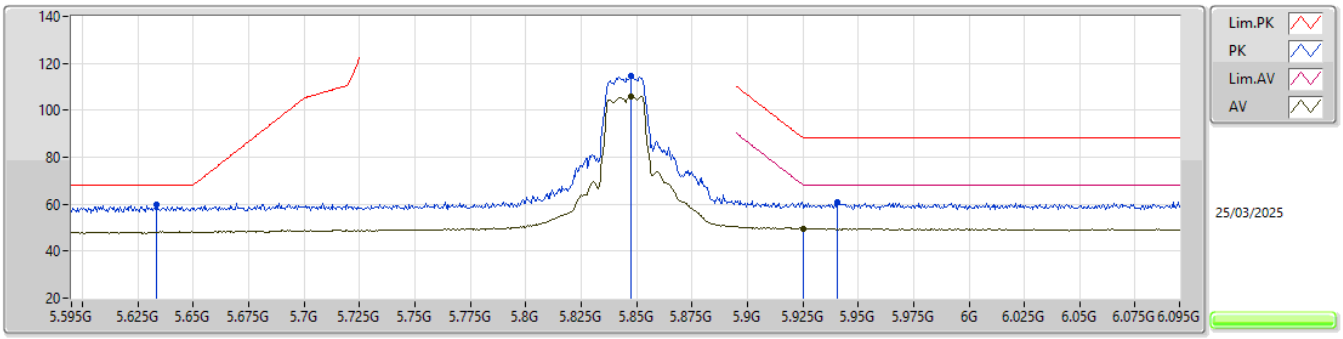


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.637G	59.48	68.20	-8.72	48.53	3	Vertical	98	2.77	-	34.00	7.65	30.70
PK	5.8485G	114.04	Inf	-Inf	102.86	3	Vertical	98	2.77	-	34.00	7.83	30.65
RMS	5.8475G	105.00	Inf	-Inf	93.81	3	Vertical	98	2.77	-	34.01	7.83	30.65
PK	5.955G	61.40	88.20	-26.80	49.91	3	Vertical	98	2.77	-	34.21	7.90	30.62
RMS	5.934G	49.16	68.20	-19.04	37.70	3	Vertical	98	2.77	-	34.20	7.89	30.63

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

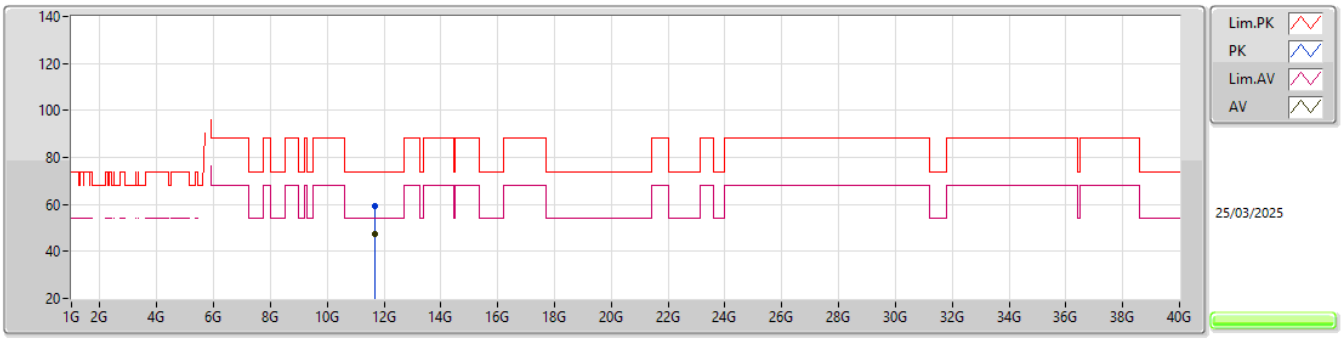


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6335G	60.01	68.20	-8.19	49.06	3	Horizontal	197	2.68	-	34.00	7.65	30.70
PK	5.8475G	114.49	Inf	-Inf	103.30	3	Horizontal	197	2.68	-	34.01	7.83	30.65
RMS	5.8475G	105.81	Inf	-Inf	94.62	3	Horizontal	197	2.68	-	34.01	7.83	30.65
PK	5.9405G	60.86	88.20	-27.34	49.39	3	Horizontal	197	2.68	-	34.20	7.89	30.62
RMS	5.9255G	49.72	68.20	-18.48	38.27	3	Horizontal	197	2.68	-	34.20	7.88	30.63

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

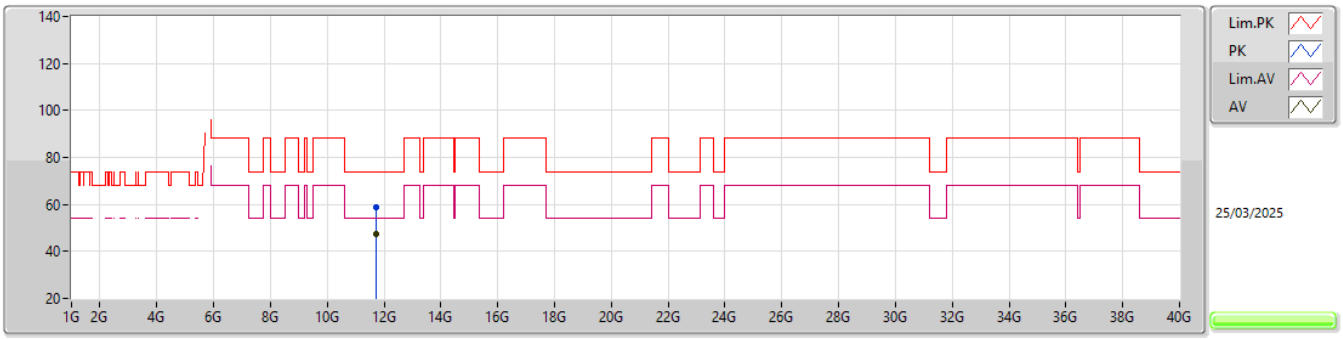


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6828G	59.44	74.00	-14.56	38.99	3	Vertical	163	1.67	-	39.43	11.88	30.86
AV	11.69726G	47.52	54.00	-6.48	27.02	3	Vertical	163	1.67	-	39.49	11.89	30.88

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

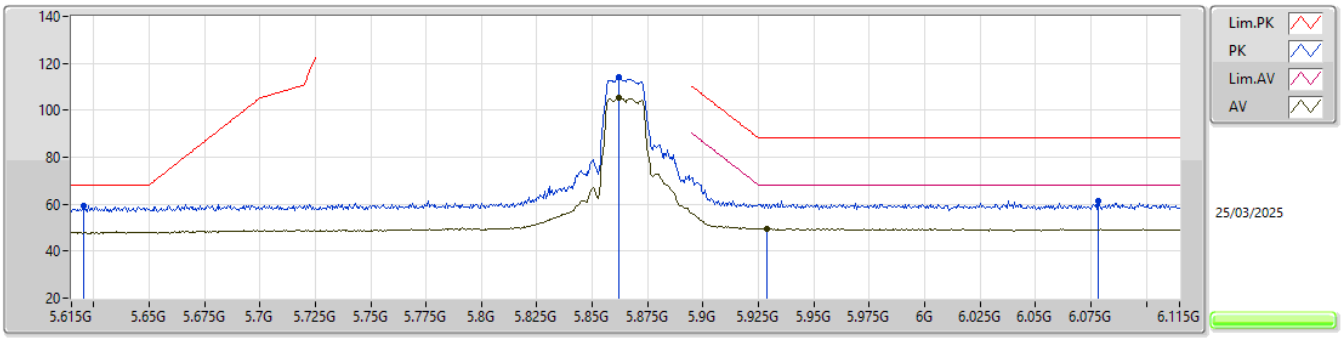


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.70206G	58.81	74.00	-15.19	38.30	3	Horizontal	360	1.63	-	39.50	11.89	30.88
AV	11.7044G	47.47	54.00	-6.53	26.95	3	Horizontal	360	1.63	-	39.51	11.89	30.88

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5865MHz_TX

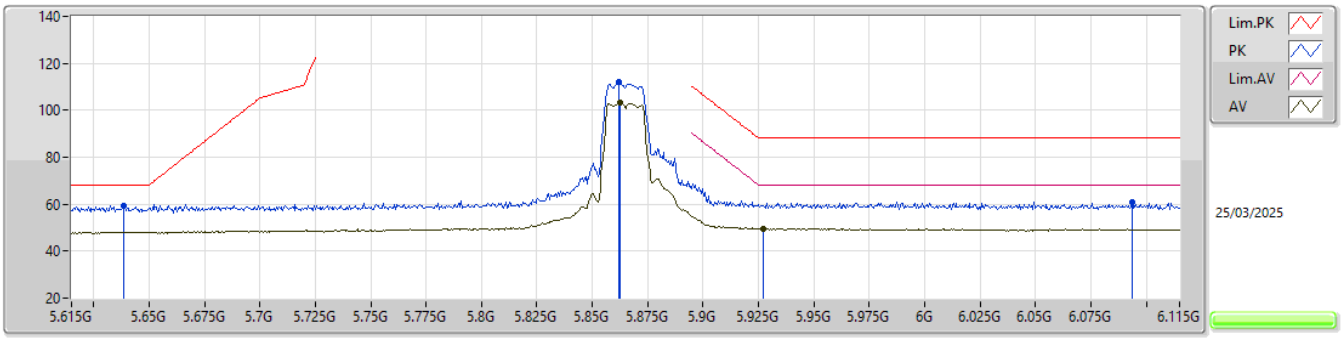


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6205G	59.17	68.20	-9.03	48.23	3	Vertical	99	2.76	-	34.00	7.64	30.70
PK	5.862G	114.29	Inf	-Inf	103.04	3	Vertical	99	2.76	-	34.05	7.84	30.64
RMS	5.862G	105.46	Inf	-Inf	94.21	3	Vertical	99	2.76	-	34.05	7.84	30.64
RMS	5.929G	49.69	68.20	-18.51	38.24	3	Vertical	99	2.76	-	34.20	7.88	30.63
PK	6.0785G	61.63	88.20	-26.57	49.86	3	Vertical	99	2.76	-	34.41	8.05	30.69

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5865MHz_TX

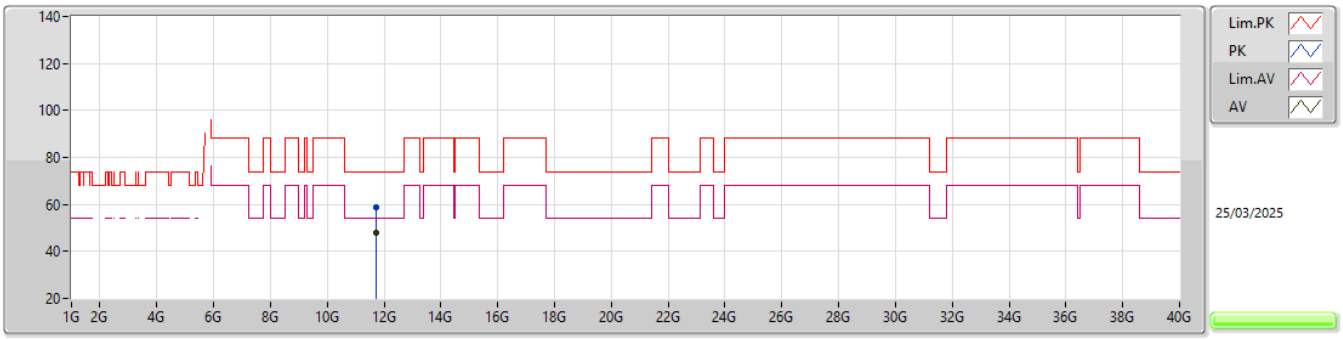


EUT Z_1TX
Setting 23
02-R-E-2-6

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	59.29	68.20	-8.91	48.34	3	Horizontal	343	2.69	-	34.00	7.65	30.70
PK	5.862G	112.10	Inf	-Inf	100.85	3	Horizontal	343	2.69	-	34.05	7.84	30.64
RMS	5.8625G	103.23	Inf	-Inf	91.98	3	Horizontal	343	2.69	-	34.05	7.84	30.64
RMS	5.927G	49.71	68.20	-18.49	38.26	3	Horizontal	343	2.69	-	34.20	7.88	30.63
PK	6.0935G	60.92	88.20	-27.28	49.09	3	Horizontal	343	2.69	-	34.47	8.07	30.71

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5865MHz_TX

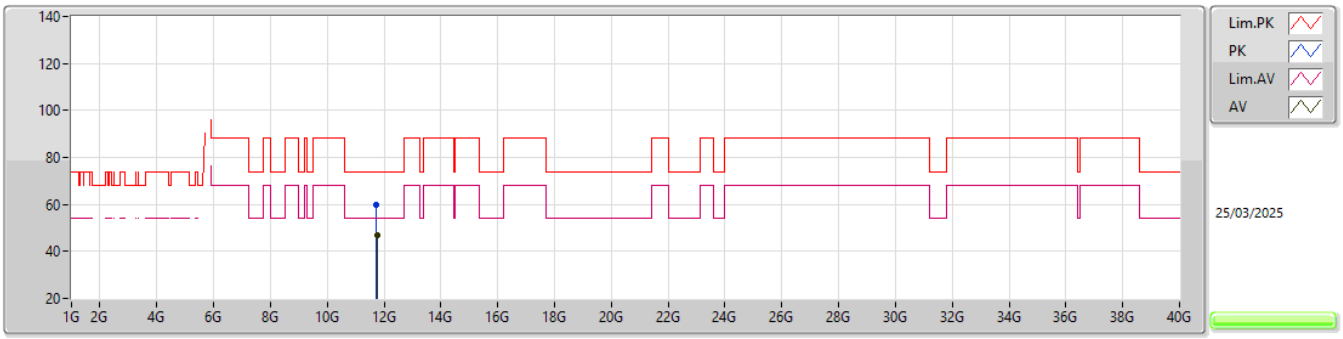


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.73081G	59.04	74.00	-14.96	38.47	3	Vertical	227	1.77	-	39.56	11.91	30.90
AV	11.74242G	47.76	54.00	-6.24	27.17	3	Vertical	227	1.77	-	39.58	11.92	30.91

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5865MHz_TX

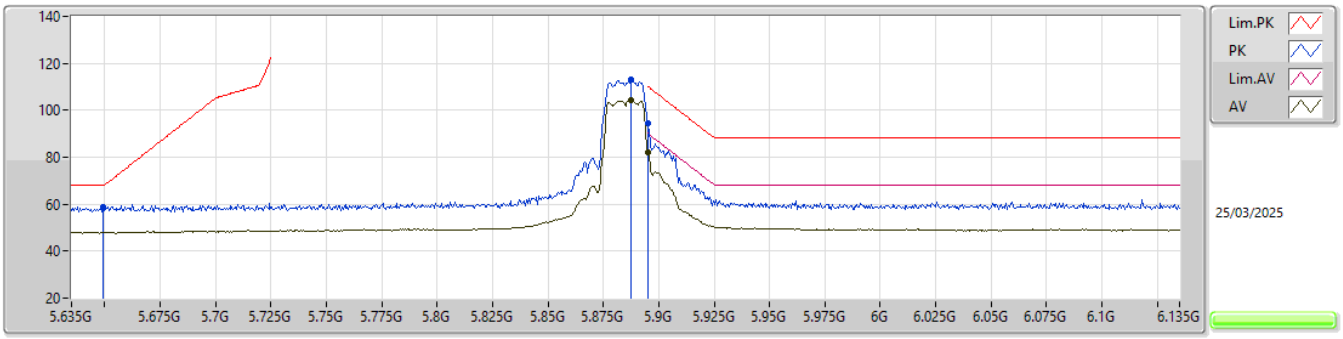


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.73123G	59.94	74.00	-14.06	39.37	3	Horizontal	132	2.29	-	39.56	11.91	30.90
AV	11.7441G	46.75	54.00	-7.25	26.16	3	Horizontal	132	2.29	-	39.59	11.92	30.92

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5885MHz_TX

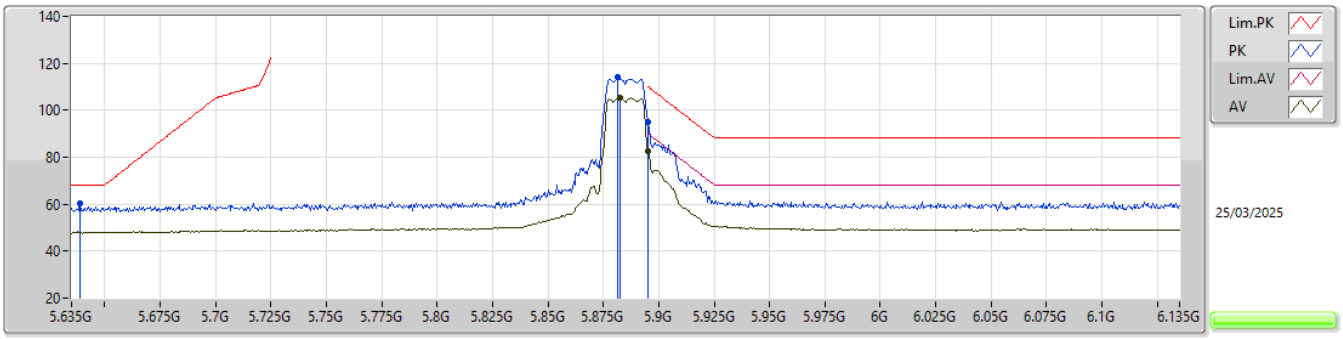


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6495G	58.98	68.20	-9.22	48.01	3	Vertical	79	2.73	-	34.00	7.66	30.69
PK	5.8875G	113.12	Inf	-Inf	101.75	3	Vertical	79	2.73	-	34.15	7.86	30.64
RMS	5.8875G	104.20	Inf	-Inf	92.83	3	Vertical	79	2.73	-	34.15	7.86	30.64
PK	5.895G	94.40	110.20	-15.80	83.00	3	Vertical	79	2.73	-	34.18	7.86	30.64
RMS	5.895G	82.08	90.20	-8.12	70.68	3	Vertical	79	2.73	-	34.18	7.86	30.64

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5885MHz_TX

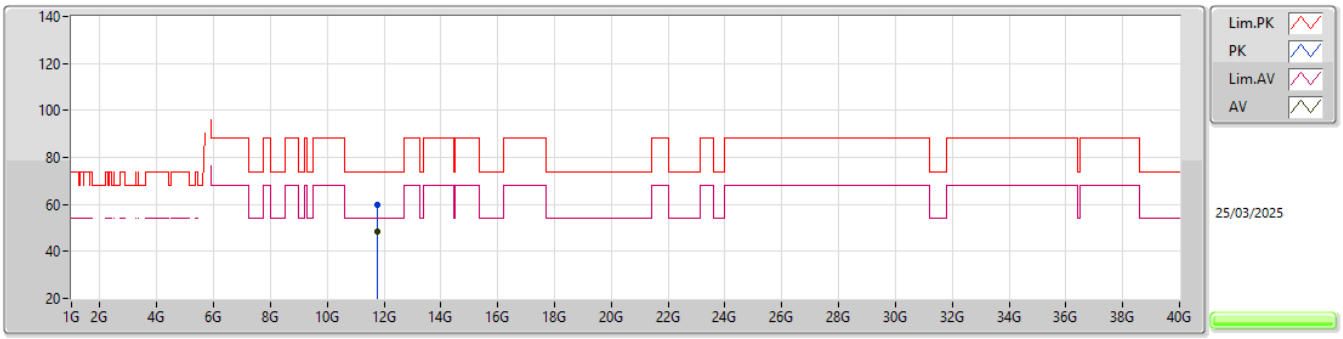


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.639G	60.23	68.20	-7.97	49.27	3	Horizontal	166	2.90	-	34.00	7.66	30.70
PK	5.8815G	113.92	Inf	-Inf	102.58	3	Horizontal	166	2.90	-	34.13	7.85	30.64
RMS	5.8825G	105.14	Inf	-Inf	93.80	3	Horizontal	166	2.90	-	34.13	7.85	30.64
PK	5.895G	94.80	110.20	-15.40	83.40	3	Horizontal	166	2.90	-	34.18	7.86	30.64
RMS	5.895G	82.47	90.20	-7.73	71.07	3	Horizontal	166	2.90	-	34.18	7.86	30.64

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5885MHz_TX

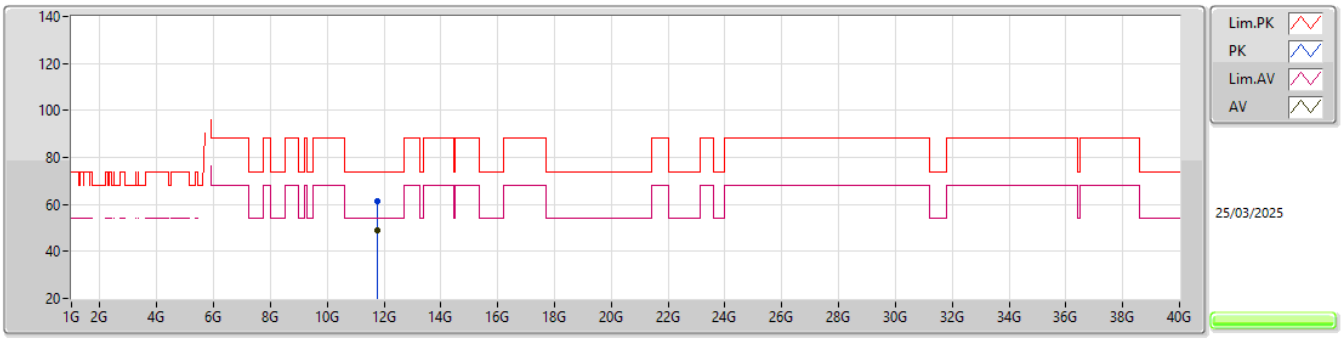


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76508G	59.70	74.00	-14.30	39.10	3	Vertical	258	1.08	-	39.60	11.93	30.93
AV	11.77297G	48.60	54.00	-5.40	28.00	3	Vertical	258	1.08	-	39.60	11.94	30.94

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5885MHz_TX

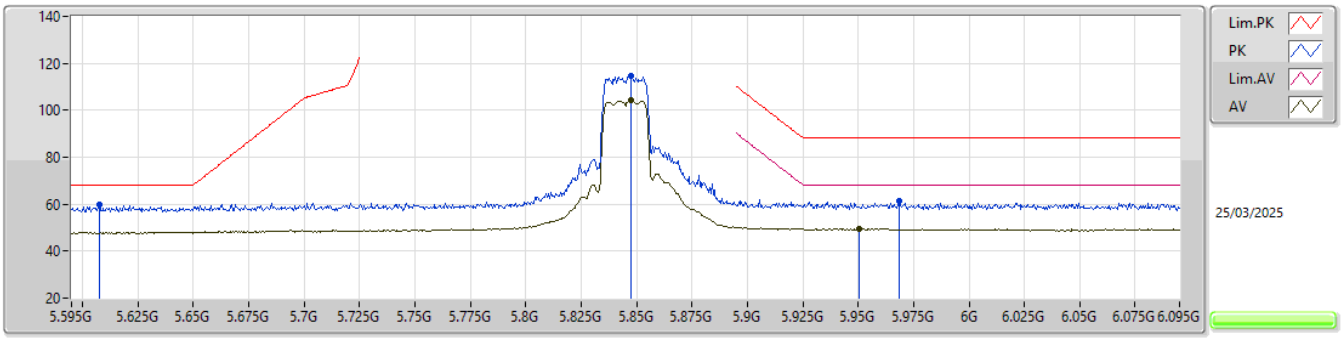


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76304G	61.39	74.00	-12.61	40.79	3	Horizontal	23	2.18	-	39.60	11.93	30.93
AV	11.77099G	48.87	54.00	-5.13	28.28	3	Horizontal	23	2.18	-	39.60	11.93	30.94

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5845MHz_TX

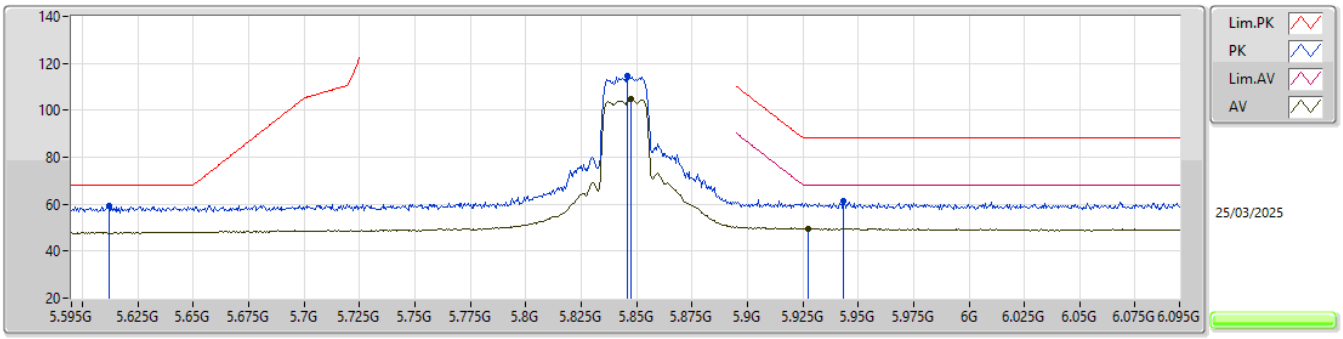


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6075G	59.83	68.20	-8.37	48.90	3	Vertical	98	2.77	-	34.00	7.63	30.70
PK	5.8475G	114.42	Inf	-Inf	103.23	3	Vertical	98	2.77	-	34.01	7.83	30.65
RMS	5.8475G	104.11	Inf	-Inf	92.92	3	Vertical	98	2.77	-	34.01	7.83	30.65
PK	5.9685G	61.50	88.20	-26.70	49.97	3	Vertical	98	2.77	-	34.24	7.91	30.62
RMS	5.9505G	49.54	68.20	-18.66	38.06	3	Vertical	98	2.77	-	34.20	7.90	30.62

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5845MHz_TX

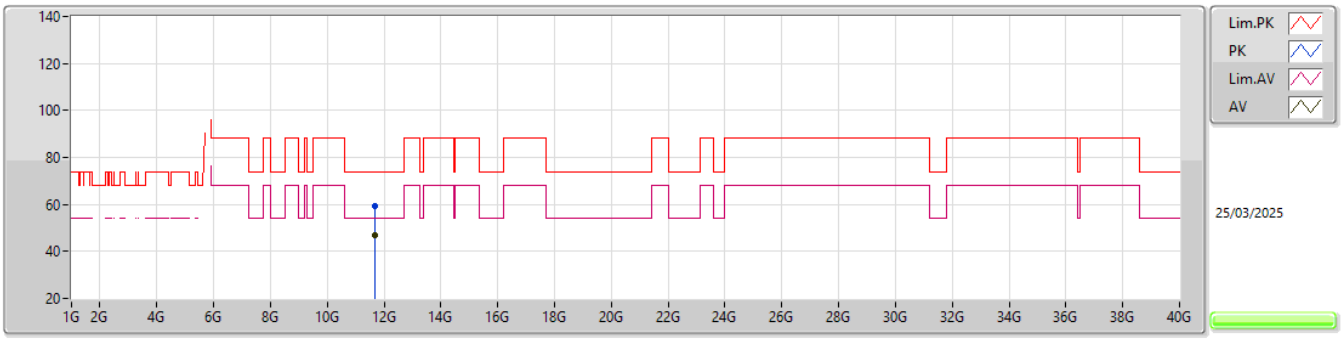


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.612G	59.11	68.20	-9.09	48.18	3	Horizontal	195	2.69	-	34.00	7.63	30.70
PK	5.846G	114.52	Inf	-Inf	103.33	3	Horizontal	195	2.69	-	34.01	7.83	30.65
RMS	5.8475G	104.59	Inf	-Inf	93.40	3	Horizontal	195	2.69	-	34.01	7.83	30.65
PK	5.9435G	61.59	88.20	-26.61	50.12	3	Horizontal	195	2.69	-	34.20	7.89	30.62
RMS	5.9275G	49.70	68.20	-18.50	38.25	3	Horizontal	195	2.69	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5845MHz_TX

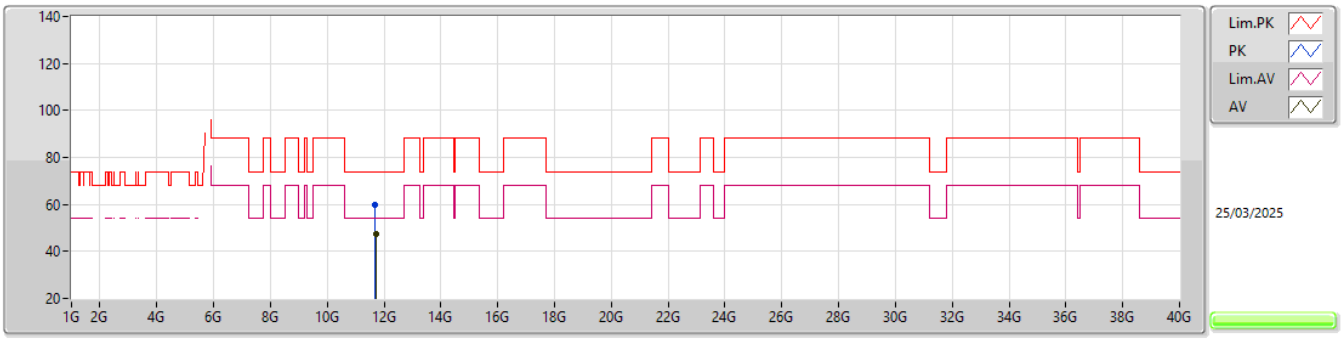


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.68445G	59.26	74.00	-14.74	38.80	3	Vertical	323	1.29	-	39.44	11.88	30.86
AV	11.69765G	46.69	54.00	-7.31	26.19	3	Vertical	323	1.29	-	39.49	11.89	30.88

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5845MHz_TX

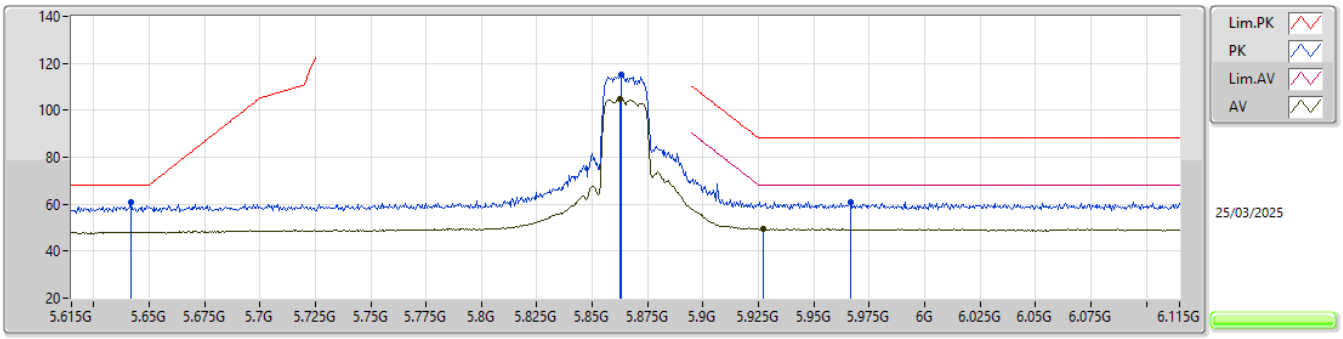


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6951G	59.59	74.00	-14.41	39.09	3	Horizontal	169	2.63	-	39.48	11.89	30.87
AV	11.70236G	47.46	54.00	-6.54	26.95	3	Horizontal	169	2.63	-	39.50	11.89	30.88

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5865MHz_TX

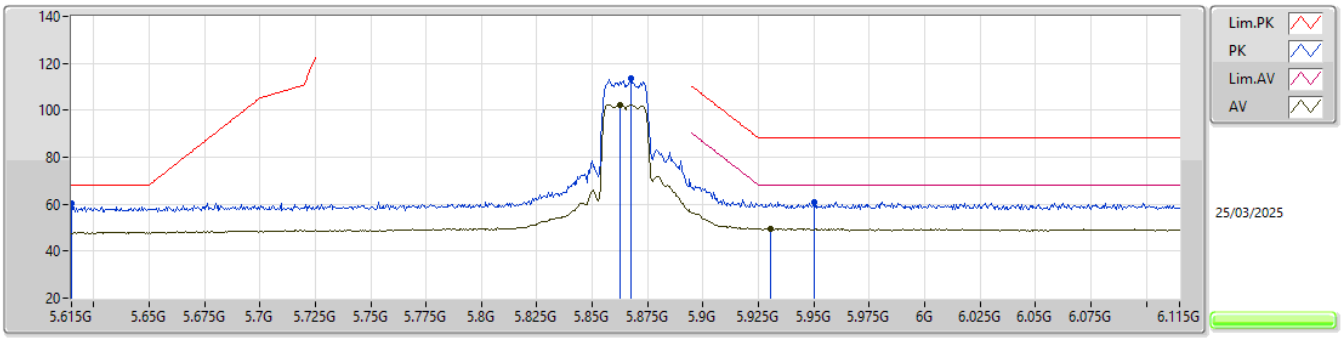


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.642G	60.88	68.20	-7.32	49.92	3	Vertical	96	2.77	-	34.00	7.66	30.70
PK	5.863G	115.27	Inf	-Inf	104.02	3	Vertical	96	2.77	-	34.05	7.84	30.64
RMS	5.8625G	104.72	Inf	-Inf	93.47	3	Vertical	96	2.77	-	34.05	7.84	30.64
PK	5.9665G	60.82	88.20	-27.38	49.30	3	Vertical	96	2.77	-	34.23	7.91	30.62
RMS	5.927G	49.71	68.20	-18.49	38.26	3	Vertical	96	2.77	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5865MHz_TX

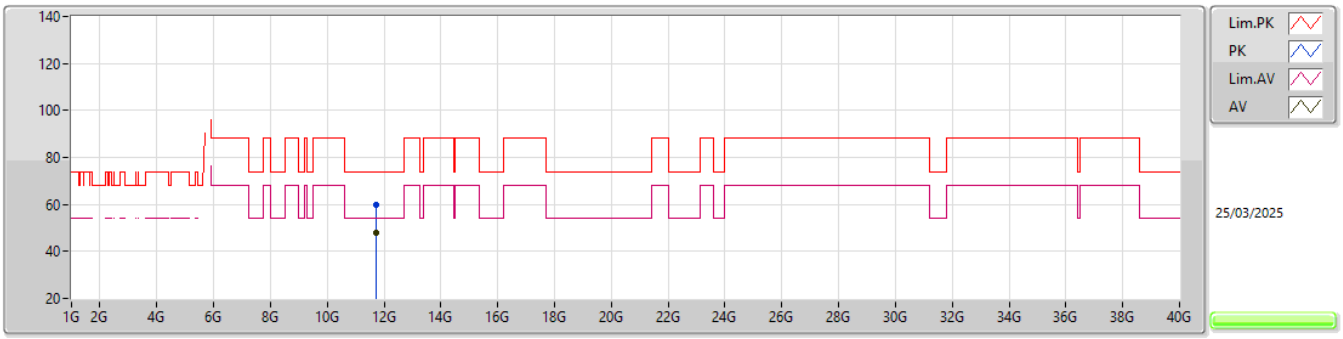


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.615G	60.46	68.20	-7.74	49.53	3	Horizontal	351	2.69	-	34.00	7.63	30.70
PK	5.8675G	113.87	Inf	-Inf	102.60	3	Horizontal	351	2.69	-	34.07	7.84	30.64
RMS	5.8625G	102.49	Inf	-Inf	91.24	3	Horizontal	351	2.69	-	34.05	7.84	30.64
PK	5.95G	61.12	88.20	-27.08	49.64	3	Horizontal	351	2.69	-	34.20	7.90	30.62
RMS	5.9305G	49.68	68.20	-18.52	38.23	3	Horizontal	351	2.69	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5865MHz_TX

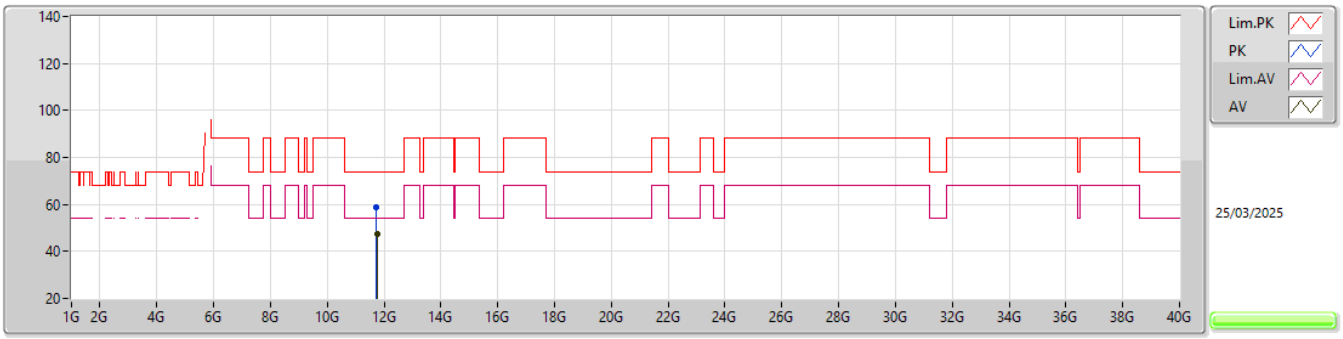


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7246G	59.61	74.00	-14.39	39.05	3	Vertical	283	2.67	-	39.55	11.91	30.90
AV	11.73945G	47.74	54.00	-6.26	27.16	3	Vertical	283	2.67	-	39.58	11.91	30.91

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5865MHz_TX

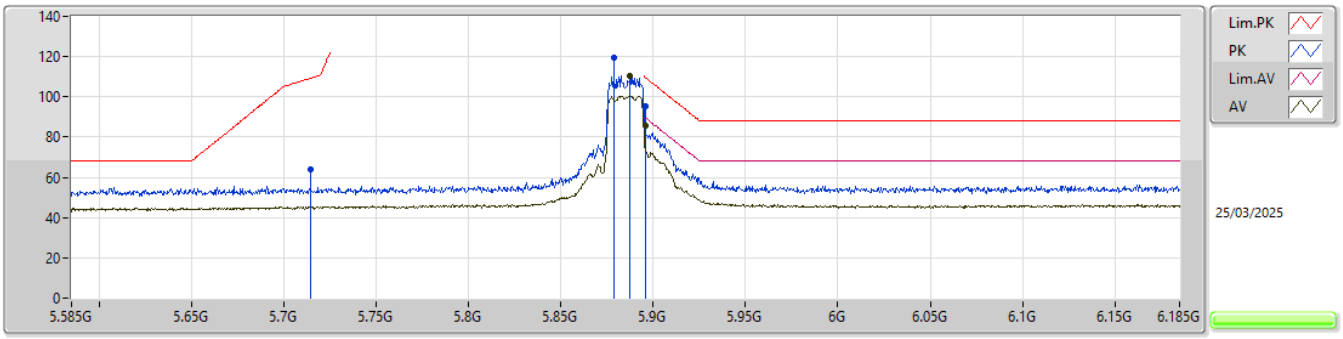


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7294G	58.93	74.00	-15.07	38.36	3	Horizontal	126	2.77	-	39.56	11.91	30.90
AV	11.7435G	47.61	54.00	-6.39	27.01	3	Horizontal	126	2.77	-	39.59	11.92	30.91

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5885MHz_TX

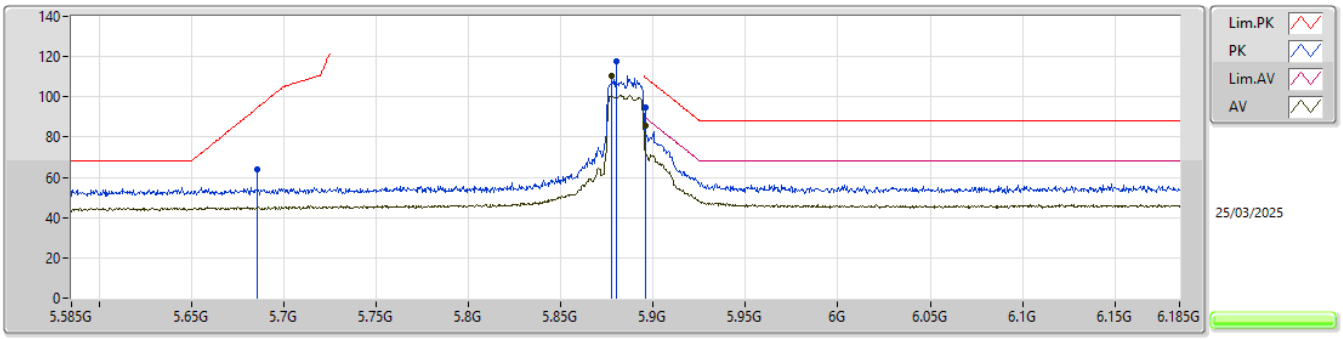


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.7145G	63.87	109.26	-45.39	52.83	3	Vertical	79	2.72	BP 1MHz	34.00	7.72	30.68
PK	5.8786G	119.29	Inf	-Inf	107.97	3	Vertical	79	2.72	BP 1MHz	34.11	7.85	30.64
RMS	5.8876G	110.24	Inf	-Inf	98.87	3	Vertical	79	2.72	BP 1MHz	34.15	7.86	30.64
PK	5.89555G	95.38	109.80	-14.42	83.98	3	Vertical	79	2.72	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	85.97	89.80	-3.83	74.57	3	Vertical	79	2.72	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5885MHz_TX

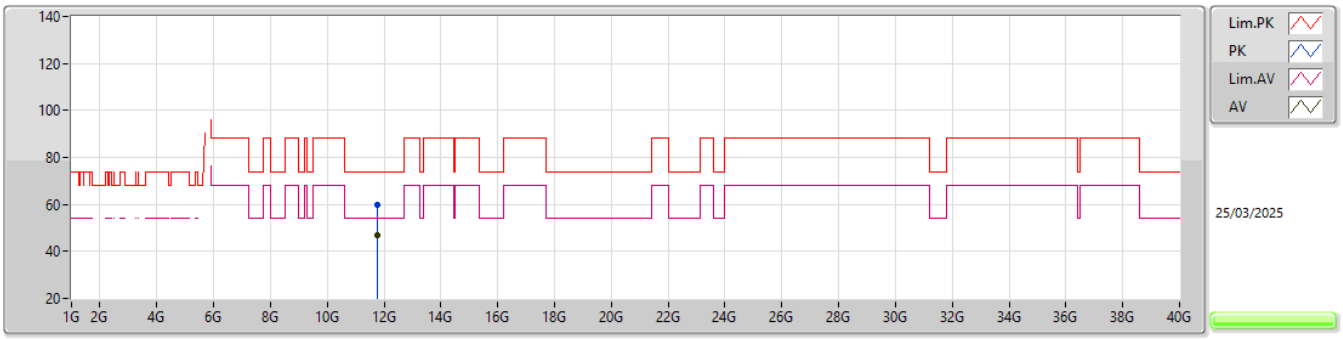


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6855G	63.91	94.47	-30.56	52.90	3	Horizontal	166	2.78	BP 1MHz	34.00	7.70	30.69
PK	5.87975G	117.80	Inf	-Inf	106.47	3	Horizontal	166	2.78	BP 1MHz	34.12	7.85	30.64
RMS	5.8772G	110.47	Inf	-Inf	99.15	3	Horizontal	166	2.78	BP 1MHz	34.11	7.85	30.64
PK	5.89555G	94.46	109.80	-15.34	83.06	3	Horizontal	166	2.78	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	85.53	89.80	-4.27	74.13	3	Horizontal	166	2.78	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5885MHz_TX

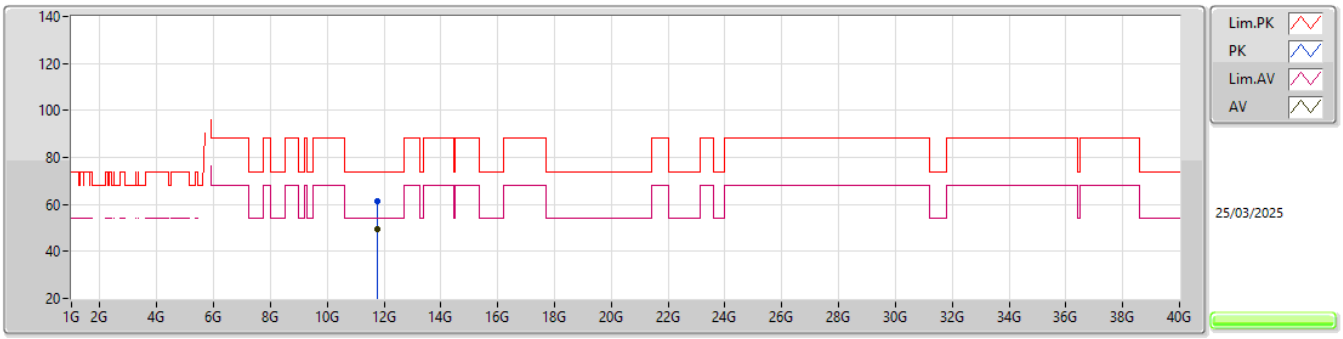


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.77009G	59.63	74.00	-14.37	39.04	3	Vertical	168	1.80	-	39.60	11.93	30.94
AV	11.77126G	47.04	54.00	-6.96	26.45	3	Vertical	168	1.80	-	39.60	11.93	30.94

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5885MHz_TX



EUT Z_1TX
Setting 23
02-R-E-2

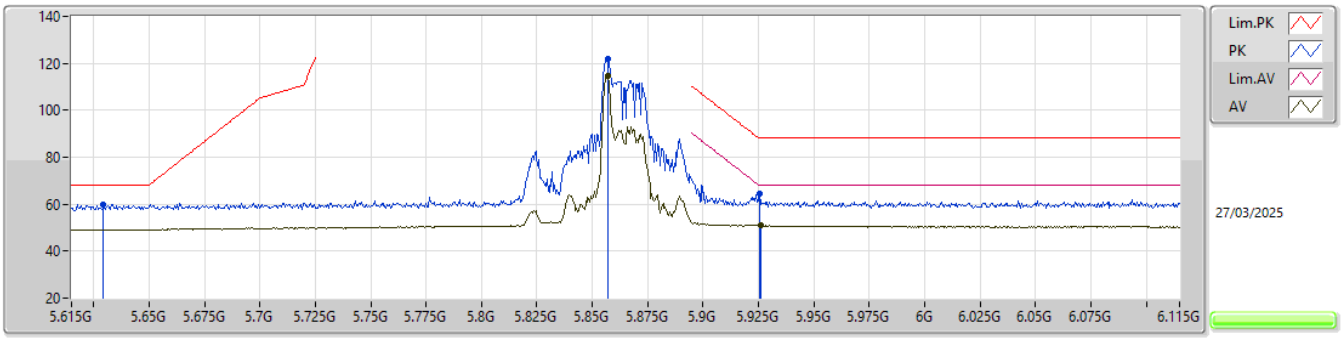
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.76793G	61.62	74.00	-12.38	41.03	3	Horizontal	156	2.22	-	39.60	11.93	30.94
AV	11.76949G	49.68	54.00	-4.32	29.09	3	Horizontal	156	2.22	-	39.60	11.93	30.94

Test Mode: Mode 2
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	11.7868G	52.79	54.00	-1.21	3	Vertical	272	2.30	-

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX

5865MHz_TX

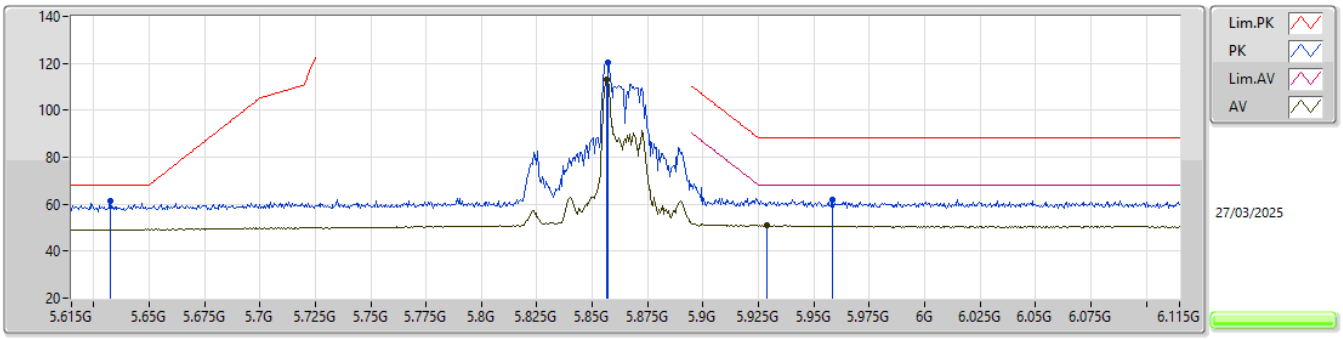


EUT Z_1TX
Setting 23
02-R-E-3-6

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	59.97	68.20	-8.23	49.02	3	Vertical	106	2.74	-	34.00	7.65	30.70
PK	5.857G	122.13	Inf	-Inf	110.90	3	Vertical	106	2.74	-	34.03	7.84	30.64
RMS	5.857G	114.43	Inf	-Inf	103.20	3	Vertical	106	2.74	-	34.03	7.84	30.64
PK	5.9255G	64.48	88.20	-23.72	53.03	3	Vertical	106	2.74	-	34.20	7.88	30.63
RMS	5.926G	50.96	68.20	-17.24	39.51	3	Vertical	106	2.74	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX

5865MHz_TX

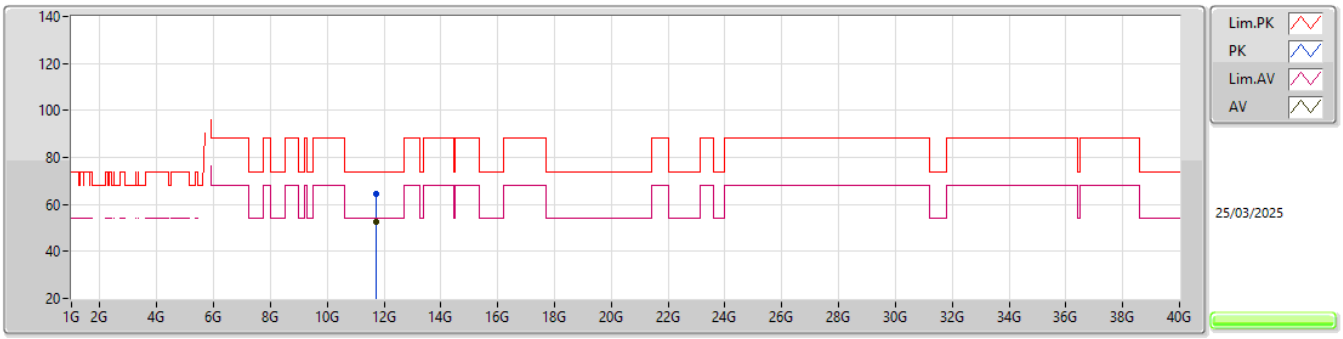


EUT Z_1TX
Setting 23
02-R-E-3-6

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	5.6325G	61.51	68.20	-6.69	50.56	3	Horizontal	1	2.68	-	34.00	7.65	30.70
PK	5.857G	120.21	Inf	-Inf	108.98	3	Horizontal	1	2.68	-	34.03	7.84	30.64
RMS	5.8565G	112.96	Inf	-Inf	101.73	3	Horizontal	1	2.68	-	34.03	7.84	30.64
PK	5.9585G	62.06	88.20	-26.14	50.56	3	Horizontal	1	2.68	-	34.22	7.90	30.62
RMS	5.929G	50.97	68.20	-17.23	39.52	3	Horizontal	1	2.68	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX

5865MHz_TX

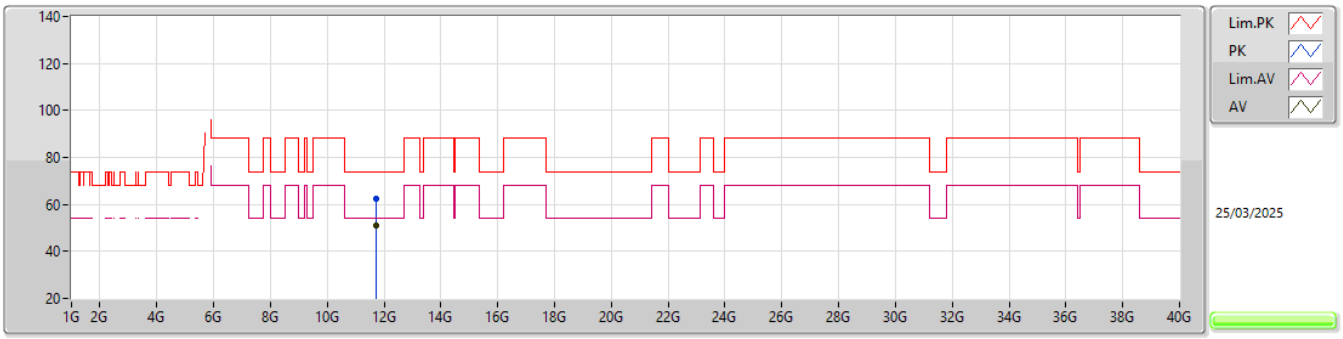


EUT Z_1TX
Setting 13
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7139G	64.27	74.00	-9.73	43.73	3	Vertical	90	1.02	-	39.53	11.90	30.89
AV	11.7132G	52.61	54.00	-1.39	32.07	3	Vertical	90	1.02	-	39.53	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU0_1TX

5865MHz_TX

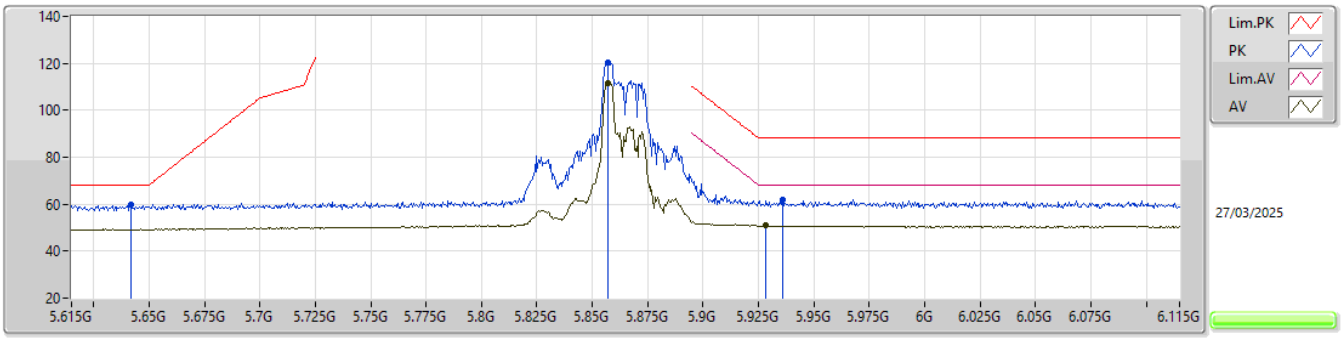


EUT Z_1TX
Setting 13
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7141G	62.61	74.00	-11.39	42.07	3	Horizontal	345	1.80	-	39.53	11.90	30.89
AV	11.7133G	51.21	54.00	-2.79	30.67	3	Horizontal	345	1.80	-	39.53	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX

5865MHz_TX

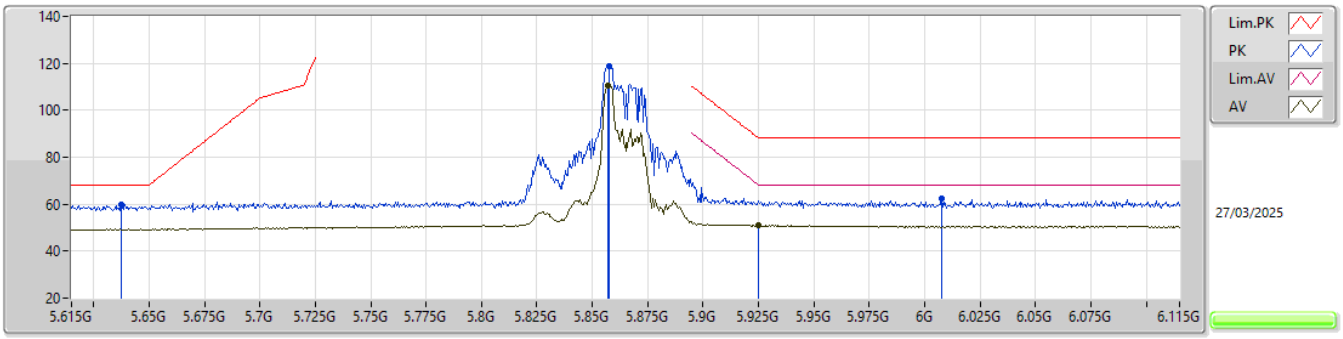


EUT Z_1TX
Setting 23
02-R-E-3-6

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	5.642G	59.58	68.20	-8.62	48.62	3	Vertical	107	2.74	-	34.00	7.66	30.70
PK	5.857G	120.26	Inf	-Inf	109.03	3	Vertical	107	2.74	-	34.03	7.84	30.64
RMS	5.857G	111.62	Inf	-Inf	100.39	3	Vertical	107	2.74	-	34.03	7.84	30.64
PK	5.936G	62.02	88.20	-26.18	50.56	3	Vertical	107	2.74	-	34.20	7.89	30.63
RMS	5.928G	50.83	68.20	-17.37	39.38	3	Vertical	107	2.74	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX

5865MHz_TX

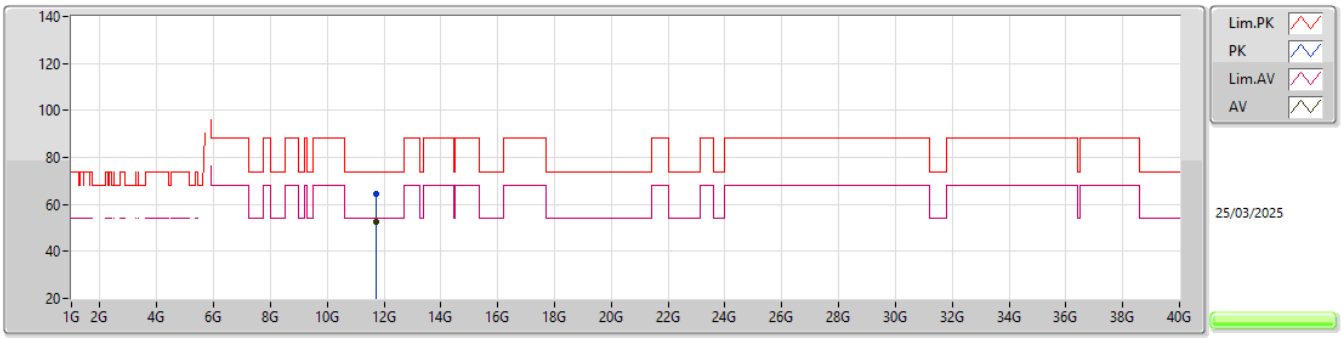


EUT Z_1TX
Setting 23
02-R-E-3-6

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	5.6375G	59.75	68.20	-8.45	48.80	3	Horizontal	2	2.68	-	34.00	7.65	30.70
PK	5.8575G	118.75	Inf	-Inf	107.52	3	Horizontal	2	2.68	-	34.03	7.84	30.64
RMS	5.857G	110.42	Inf	-Inf	99.19	3	Horizontal	2	2.68	-	34.03	7.84	30.64
RMS	5.925G	50.86	68.20	-17.34	39.41	3	Horizontal	2	2.68	-	34.20	7.88	30.63
PK	6.0075G	62.17	88.20	-26.03	50.55	3	Horizontal	2	2.68	-	34.30	7.94	30.62

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX

5865MHz_TX

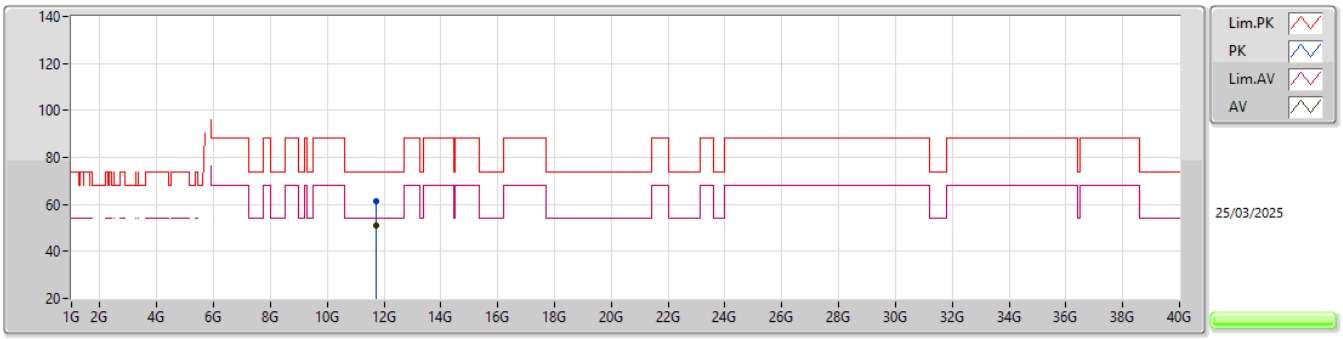


EUT Z_1TX
Setting 14
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7146G	64.33	74.00	-9.67	43.79	3	Vertical	47	2.78	-	39.53	11.90	30.89
AV	11.7154G	52.56	54.00	-1.44	32.02	3	Vertical	47	2.78	-	39.53	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU37_1TX

5865MHz_TX

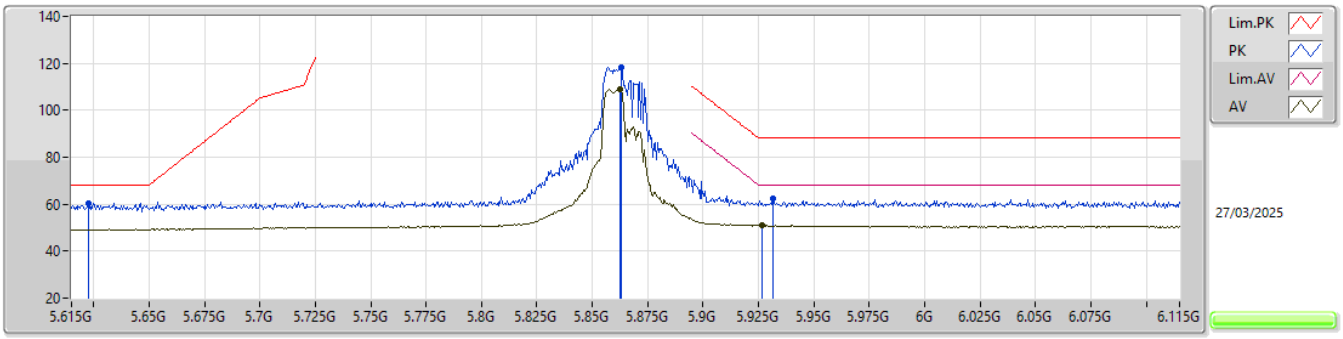


EUT Z_1TX
Setting 14
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.714G	61.34	74.00	-12.66	40.80	3	Horizontal	344	1.80	-	39.53	11.90	30.89
AV	11.7152G	50.80	54.00	-3.20	30.26	3	Horizontal	344	1.80	-	39.53	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX

5865MHz_TX

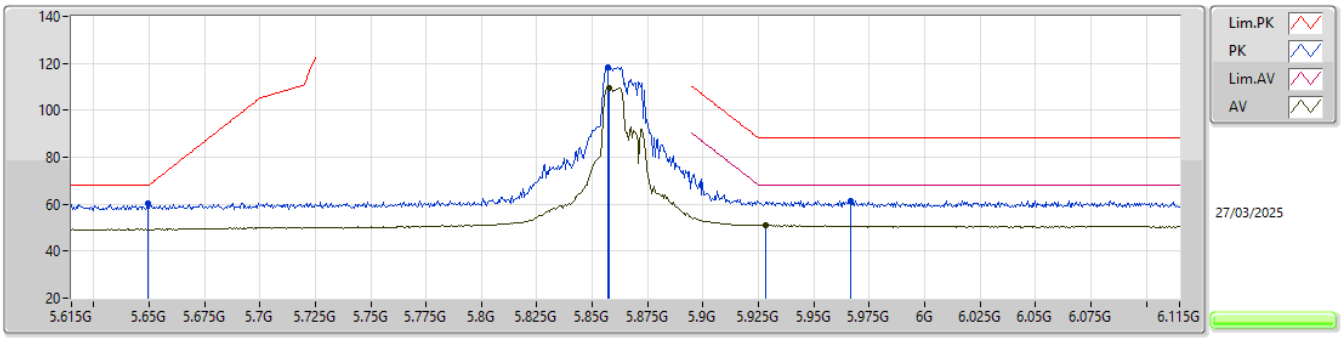


EUT Z_1TX
Setting 23
02-R-E-3-6

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	5.6225G	60.50	68.20	-7.70	49.56	3	Vertical	106	2.74	-	34.00	7.64	30.70
PK	5.863G	118.30	Inf	-Inf	107.05	3	Vertical	106	2.74	-	34.05	7.84	30.64
RMS	5.8625G	109.11	Inf	-Inf	97.86	3	Vertical	106	2.74	-	34.05	7.84	30.64
PK	5.9315G	62.25	88.20	-25.95	50.79	3	Vertical	106	2.74	-	34.20	7.89	30.63
RMS	5.9265G	50.95	68.20	-17.25	39.50	3	Vertical	106	2.74	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX

5865MHz_TX

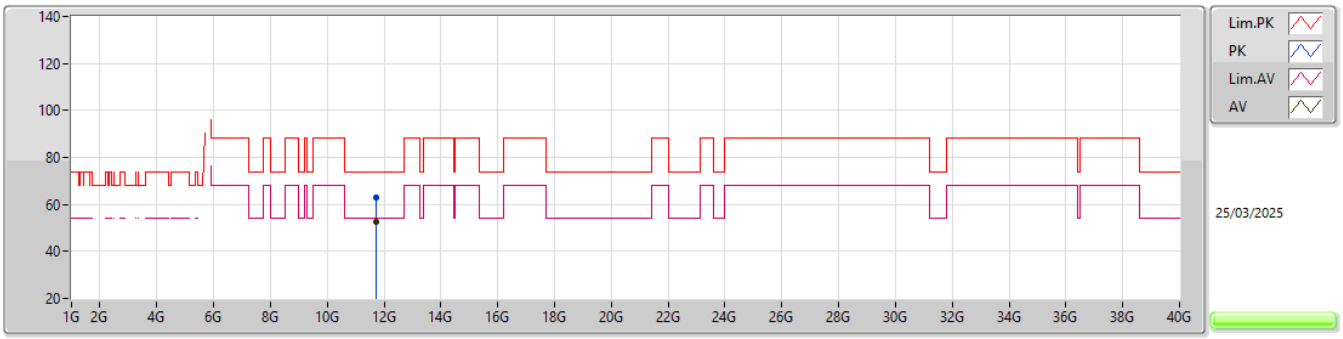


EUT Z_1TX
Setting 23
02-R-E-3-6

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	5.6495G	60.57	68.20	-7.63	49.60	3	Horizontal	222	2.67	-	34.00	7.66	30.69
PK	5.857G	118.44	Inf	-Inf	107.21	3	Horizontal	222	2.67	-	34.03	7.84	30.64
RMS	5.8575G	109.45	Inf	-Inf	98.22	3	Horizontal	222	2.67	-	34.03	7.84	30.64
PK	5.9665G	61.63	88.20	-26.57	50.11	3	Horizontal	222	2.67	-	34.23	7.91	30.62
RMS	5.928G	51.12	68.20	-17.08	39.67	3	Horizontal	222	2.67	-	34.20	7.88	30.63

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX

5865MHz_TX

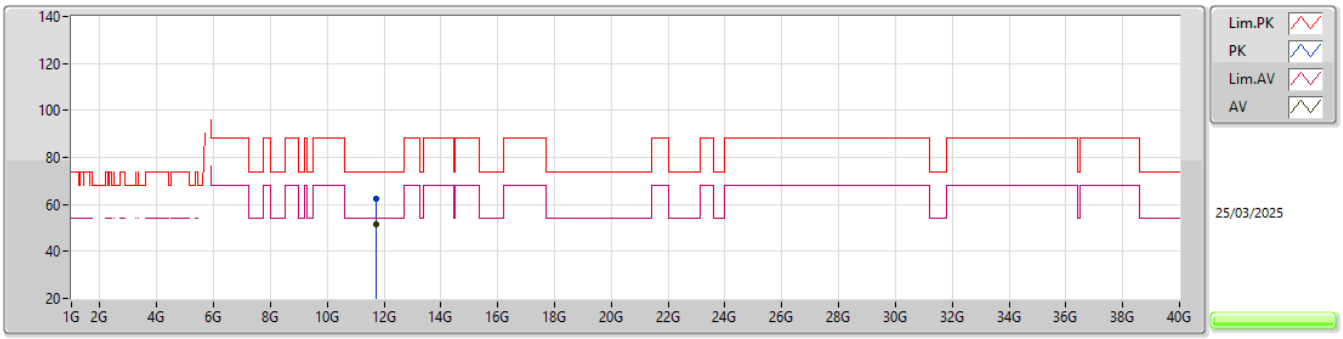


EUT Z_1TX
Setting 17
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.719G	62.99	74.00	-11.01	42.44	3	Vertical	48	2.65	-	39.54	11.90	30.89
AV	11.7198G	52.69	54.00	-1.31	32.14	3	Vertical	48	2.65	-	39.54	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU53_1TX

5865MHz_TX

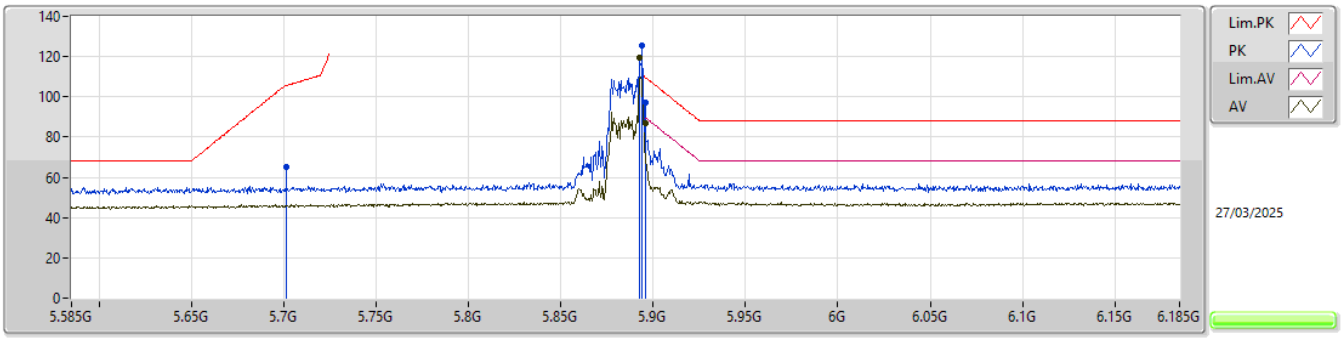


EUT Z_1TX
Setting 17
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7194G	62.64	74.00	-11.36	42.09	3	Horizontal	11	2.33	-	39.54	11.90	30.89
AV	11.7194G	51.81	54.00	-2.19	31.26	3	Horizontal	11	2.33	-	39.54	11.90	30.89

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX

5885MHz_TX

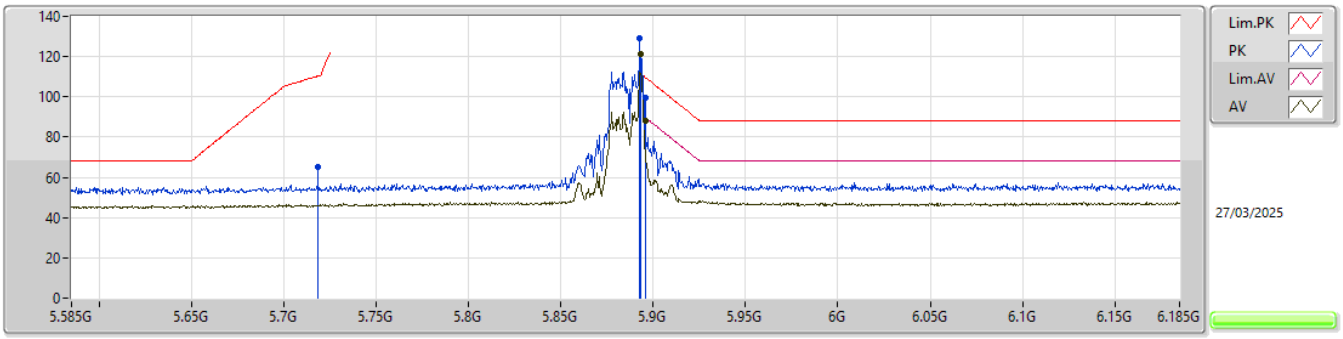


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.7015G	65.06	105.62	-40.56	54.03	3	Vertical	284	2.72	BP 1MHz	34.00	7.71	30.68
PK	5.8936G	125.62	Inf	-Inf	114.23	3	Vertical	284	2.72	BP 1MHz	34.17	7.86	30.64
RMS	5.89275G	119.19	Inf	-Inf	107.80	3	Vertical	284	2.72	BP 1MHz	34.17	7.86	30.64
PK	5.89555G	97.20	109.80	-12.60	85.80	3	Vertical	284	2.72	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	86.94	89.80	-2.86	75.54	3	Vertical	284	2.72	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX

5885MHz_TX

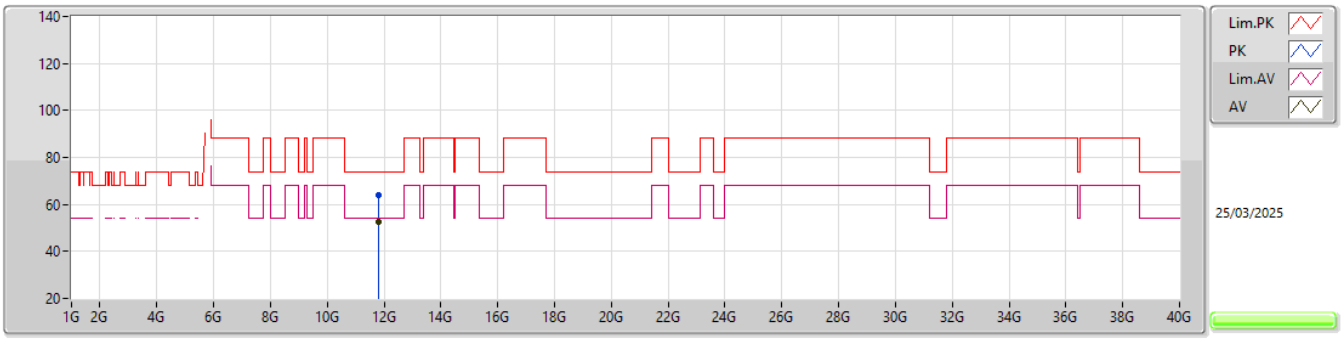


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.7185G	64.94	110.38	-45.44	53.89	3	Horizontal	193	2.89	BP 1MHz	34.00	7.73	30.68
PK	5.89275G	129.35	Inf	-Inf	117.96	3	Horizontal	193	2.89	BP 1MHz	34.17	7.86	30.64
RMS	5.8929G	121.42	Inf	-Inf	110.03	3	Horizontal	193	2.89	BP 1MHz	34.17	7.86	30.64
PK	5.89555G	99.48	109.80	-10.32	88.08	3	Horizontal	193	2.89	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	88.35	89.80	-1.45	76.95	3	Horizontal	193	2.89	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX

5885MHz_TX

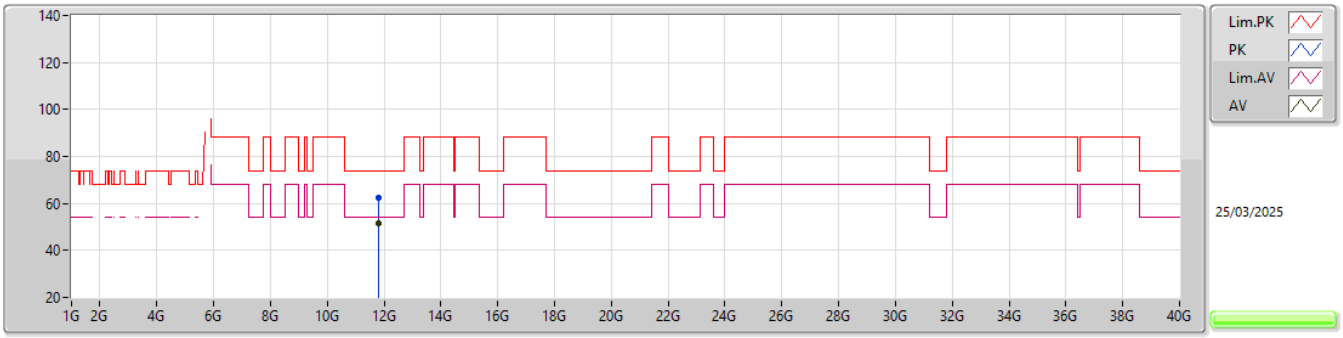


EUT Z_1TX
Setting 14
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7869G	64.19	74.00	-9.81	43.60	3	Vertical	272	2.30	-	39.60	11.94	30.95
AV	11.7868G	52.79	54.00	-1.21	32.20	3	Vertical	272	2.30	-	39.60	11.94	30.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU26,#RU8_1TX

5885MHz_TX

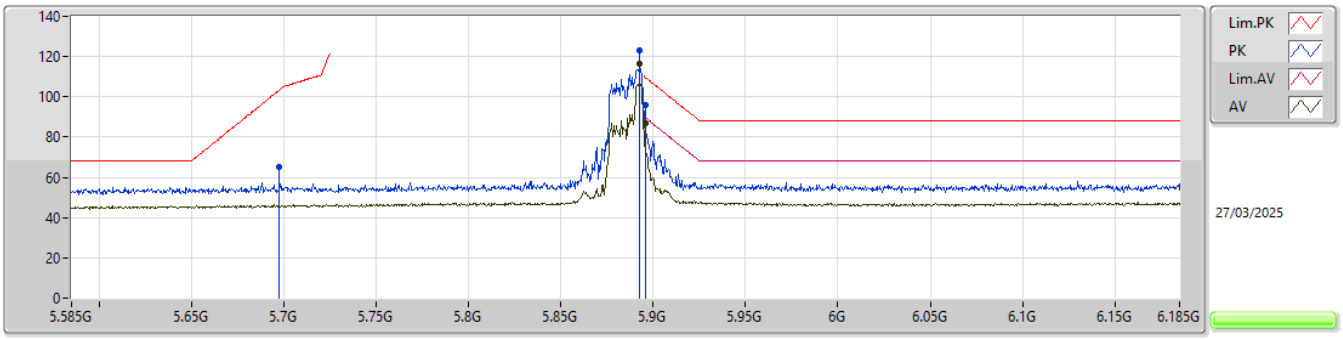


EUT Z_1TX
Setting 14
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7864G	62.62	74.00	-11.38	42.03	3	Horizontal	344	1.88	-	39.60	11.94	30.95
AV	11.7867G	51.45	54.00	-2.55	30.86	3	Horizontal	344	1.88	-	39.60	11.94	30.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX

5885MHz_TX

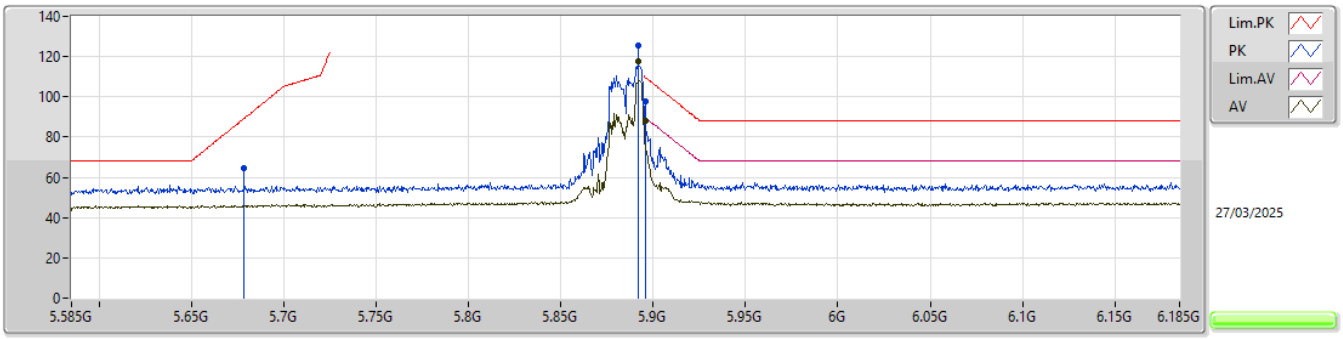


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.6975G	65.43	103.35	-37.92	54.40	3	Vertical	284	2.71	BP 1MHz	34.00	7.71	30.68
PK	5.8926G	123.27	Inf	-Inf	111.88	3	Vertical	284	2.71	BP 1MHz	34.17	7.86	30.64
RMS	5.8926G	116.17	Inf	-Inf	104.78	3	Vertical	284	2.71	BP 1MHz	34.17	7.86	30.64
PK	5.89555G	95.97	109.80	-13.83	84.57	3	Vertical	284	2.71	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	86.66	89.80	-3.14	75.26	3	Vertical	284	2.71	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX

5885MHz_TX

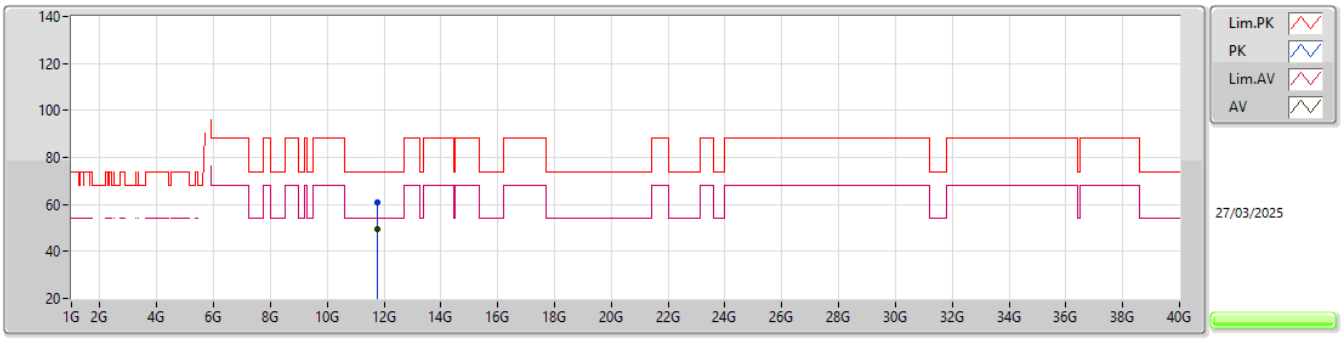


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.6785G	64.77	89.29	-24.52	53.77	3	Horizontal	162	2.65	BP 1MHz	34.00	7.69	30.69
PK	5.8916G	125.31	Inf	-Inf	113.92	3	Horizontal	162	2.65	BP 1MHz	34.17	7.86	30.64
AV	5.89205G	117.68	Inf	-Inf	106.29	3	Horizontal	162	2.65	BP 1MHz	34.17	7.86	30.64
PK	5.89555G	97.72	109.80	-12.08	86.32	3	Horizontal	162	2.65	BP 1MHz	34.18	7.86	30.64
AV	5.89555G	88.25	89.80	-1.55	76.85	3	Horizontal	162	2.65	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX

5885MHz_TX

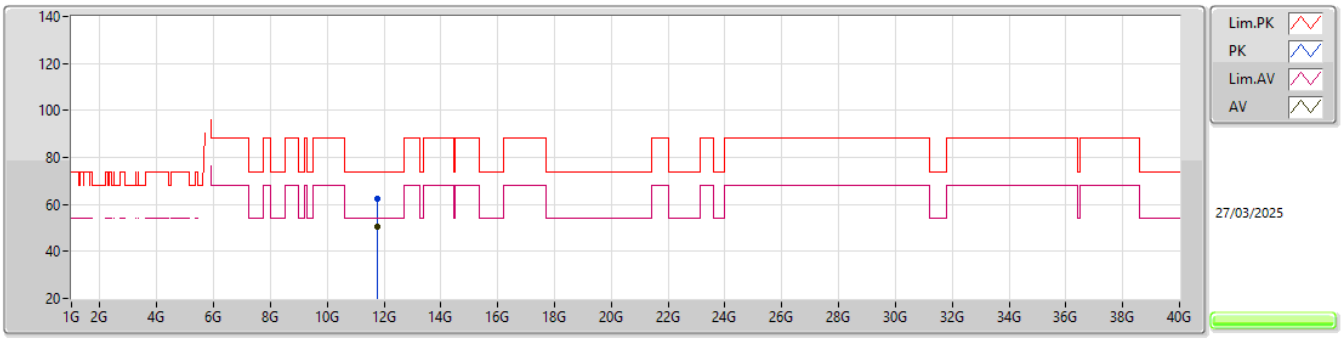


EUT Z_1TX
Setting 14
02-R-E-3

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	11.77601G	60.86	74.00	-13.14	40.26	3	Vertical	273	2.30	-	39.60	11.94	30.94
AV	11.78507G	49.72	54.00	-4.28	29.13	3	Vertical	273	2.30	-	39.60	11.94	30.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU52,#RU40_1TX

5885MHz_TX

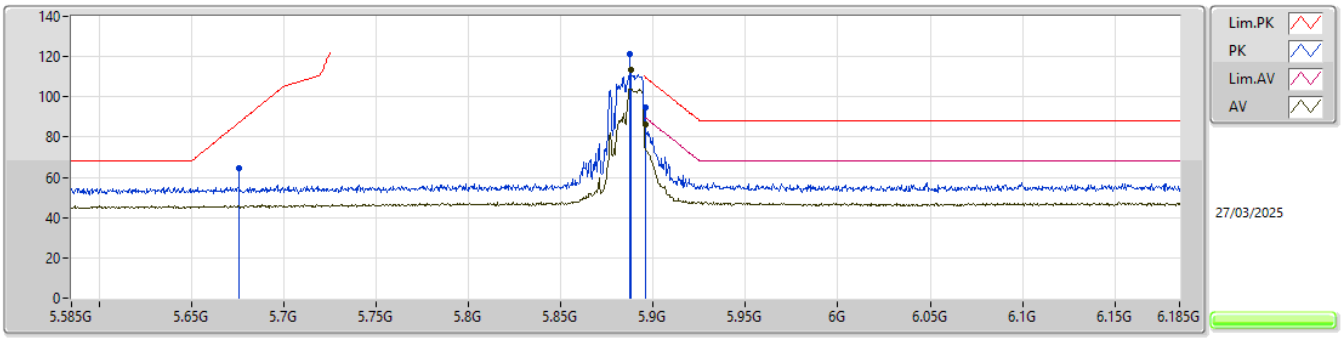


EUT Z_1TX
Setting 14
02-R-E-3

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	11.78362G	62.37	74.00	-11.63	41.78	3	Horizontal	345	1.89	-	39.60	11.94	30.95
AV	11.78506G	50.76	54.00	-3.24	30.17	3	Horizontal	345	1.89	-	39.60	11.94	30.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX

5885MHz_TX

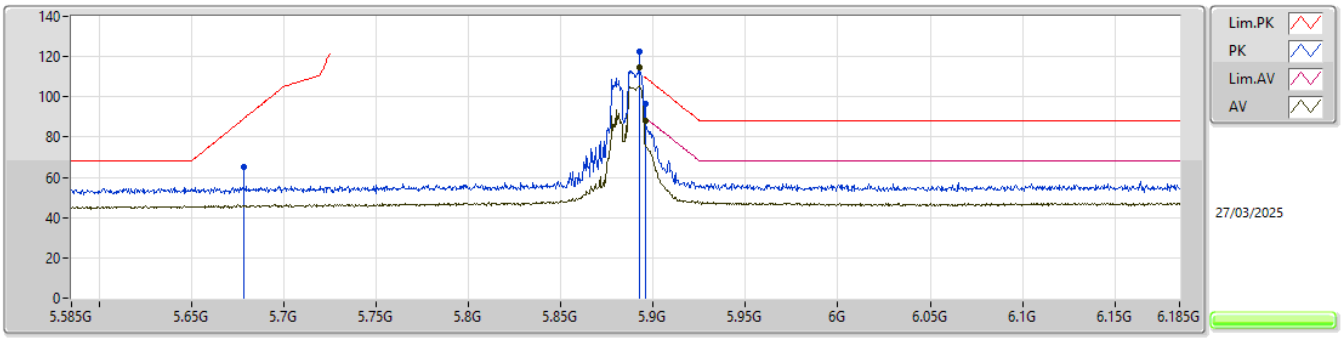


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.6755G	64.67	87.07	-22.40	53.67	3	Vertical	284	2.71	BP 1MHz	34.00	7.69	30.69
PK	5.8872G	121.08	Inf	-Inf	109.71	3	Vertical	284	2.71	BP 1MHz	34.15	7.86	30.64
RMS	5.88775G	113.50	Inf	-Inf	102.13	3	Vertical	284	2.71	BP 1MHz	34.15	7.86	30.64
PK	5.89555G	94.73	109.80	-15.07	83.33	3	Vertical	284	2.71	BP 1MHz	34.18	7.86	30.64
RMS	5.89555G	86.16	89.80	-3.64	74.76	3	Vertical	284	2.71	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX

5885MHz_TX

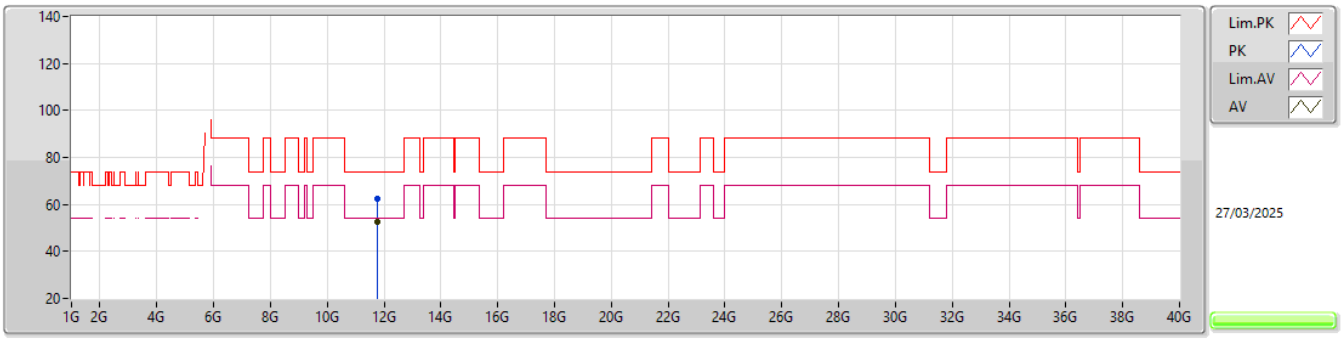


EUT Z_1TX
Setting 18
02-R-E-3-6

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	5.6785G	65.13	89.29	-24.16	54.13	3	Horizontal	162	2.64	BP 1MHz	34.00	7.69	30.69
PK	5.8926G	122.37	Inf	-Inf	110.98	3	Horizontal	162	2.64	BP 1MHz	34.17	7.86	30.64
RMS	5.8926G	114.89	Inf	-Inf	103.50	3	Horizontal	162	2.64	BP 1MHz	34.17	7.86	30.64
PK	5.89585G	96.82	109.58	-12.76	85.41	3	Horizontal	162	2.64	BP 1MHz	34.18	7.86	30.63
RMS	5.89555G	88.01	89.80	-1.79	76.61	3	Horizontal	162	2.64	BP 1MHz	34.18	7.86	30.64

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX

5885MHz_TX

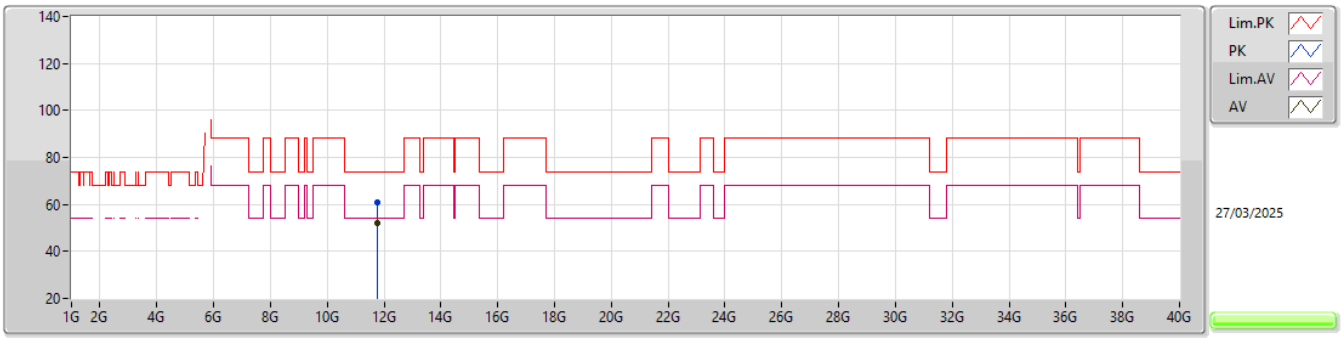


EUT Z_1TX
Setting 18
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.7835G	62.59	74.00	-11.41	42.00	3	Vertical	273	2.12	-	39.60	11.94	30.95
AV	11.78G	52.63	54.00	-1.37	32.04	3	Vertical	273	2.12	-	39.60	11.94	30.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0),RU106,#RU54_1TX

5885MHz_TX



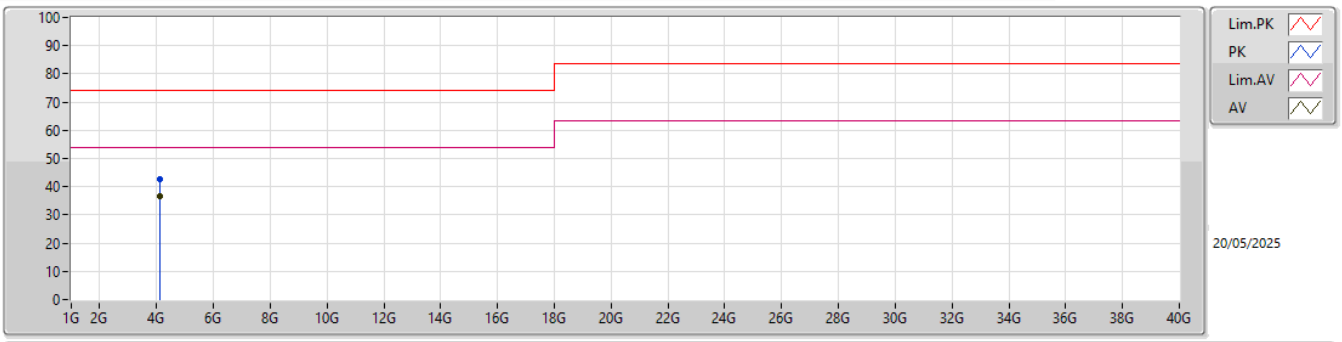
EUT Z_1TX
Setting 18
02-R-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.781G	60.88	74.00	-13.12	40.29	3	Horizontal	332	1.89	-	39.60	11.94	30.95
AV	11.781G	51.82	54.00	-2.18	31.23	3	Horizontal	332	1.89	-	39.60	11.94	30.95

Summary

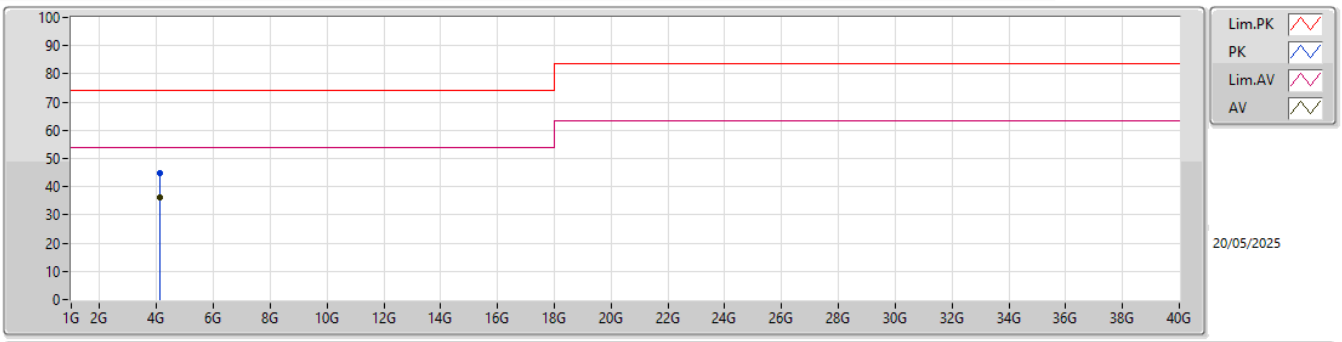
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	AV	4.1044G	36.50	54.00	-17.50	Vertical

Mode 2



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	4.1044G	42.73	74.00	-31.27	4.33	3	Vertical	37	1.00	-	38.40	32.66	6.88	35.21
AV	4.1044G	36.50	54.00	-17.50	4.33	3	Vertical	37	1.00	"Worst"	32.17	32.66	6.88	35.21

Mode 2



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	4.1044G	44.88	74.00	-29.12	4.33	3	Horizontal	68	1.00	-	40.55	32.66	6.88	35.21
AV	4.1044G	36.40	54.00	-17.60	4.33	3	Horizontal	68	1.00	"Worst"	32.07	32.66	6.88	35.21

For WLAN 5GHz: 47 CFR FCC Part 15, Subpart E (Section 15.407) - UNII 4

Test Items	Mode (MHz)	Reference Worst-Case (R_{dB})	Variant Test (V_{dB})	dB Difference (d_{dB})	Spot-Check Parameters	Pass Criterion (d_{dB}< d_{dBmax}(M_{dB})
Maximum EIRP Output Power	802.11a_Nss1,(6Mbps)_1TX 5845MHz	27.35	26.73	-0.62	CdB=30dBm MdB=|CdB-RdB|=2.65 ddBmax(MdB)=3.13	Pass
EIRP Power Spectral Density	802.11a_Nss1,(6Mbps)_1TX 5845MHz	13.87	13.70	-0.17	CdB=14dBm M-dB=|CdB-RdB|=0.13 ddBmax(MdB)=3.01	Pass
Unwanted Emissions Band-edge	802.11a_Nss1,(6Mbps)_1TX 5845MHz	61.40	61.56	0.16	CdB=54 dBuV/m MdB=|CdB-RdB|= 6.8 ddBmax(MdB)= 3.34	Pass
Unwanted Emissions Harmonic	802.11a_Nss1,(6Mbps)_1TX 5845MHz	47.52	49.82	2.3	CdB=54 dBuV/m MdB=|CdB-RdB|= 6.53 ddBmax(MdB)= 3.33	Pass

Compared Test Result

Maximum EIRP Output Power

Parent Device						
Mode	**Result**	**DG (dBi)**	**Port 1 (dBm)**	**Total Power (dBm)**	**EIRP (dBm)**	**EIRP Limit (dBm)**
802.11a_Nss1,(6Mbps)_1TX 5845MHz	Pass	5.00	22.35	22.35	27.35	30.00

Variant Device						
Mode	**Result**	**DG (dBi)**	**Port 1 (dBm)**	**Total Power (dBm)**	**EIRP (dBm)**	**EIRP Limit (dBm)**
802.11a_Nss1,(6Mbps)_1TX 5845MHz	Pass	5.00	21.73	21.73	26.73	30.00

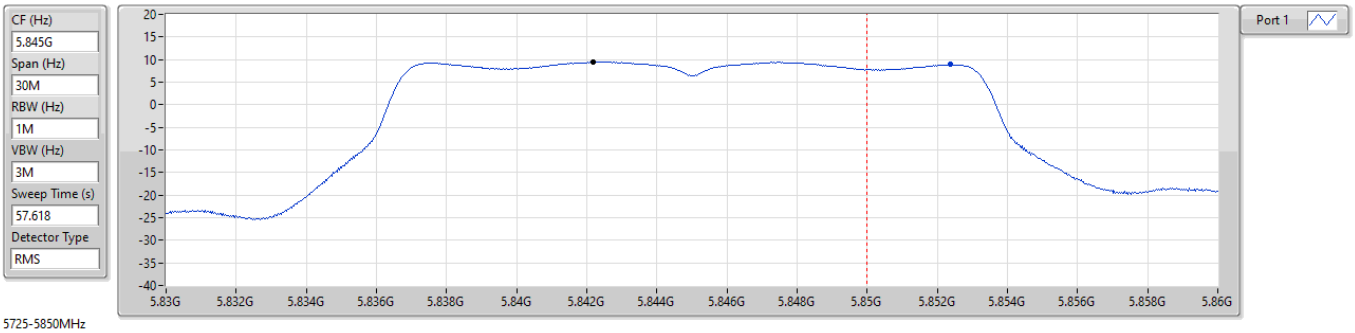
EIRP Power Spectral Density

Parent Device						
Mode	**Result**	**DG (dBi)**	**Port 1 (dBm/RBW)**	**PD (dBm/RBW)**	**EIRP PD (dBm/RBW)**	**EIRP PD Limit (dBm/RBW)**
802.11a_Nss1,(6Mbps)_1TX 5845MHz	Pass	5.00	8.87	8.87	13.87	14.00

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5845MHz

28/03/2025



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
9.51	6.50	500k	-3.01

5850~5895MHz

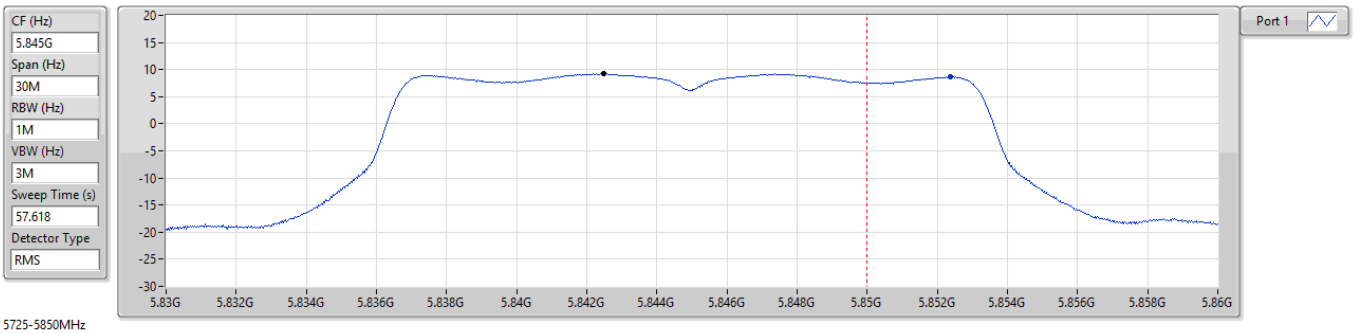
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.87	8.87	8.87

Variant Device						
Mode	**Result**	**DG (dBi)**	**Port 1 (dBm/RBW)**	**PD (dBm/RBW)**	**EIRP PD (dBm/RBW)**	**EIRP PD Limit (dBm/RBW)**
802.11a_Nss1,(6Mbps)_1TX 5845MHz	Pass	5.00	8.70	8.70	13.70	14.00

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5845MHz

06/06/2025



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
9.21	6.20	500k	-3.01

5850~5895MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.70	8.70	8.70

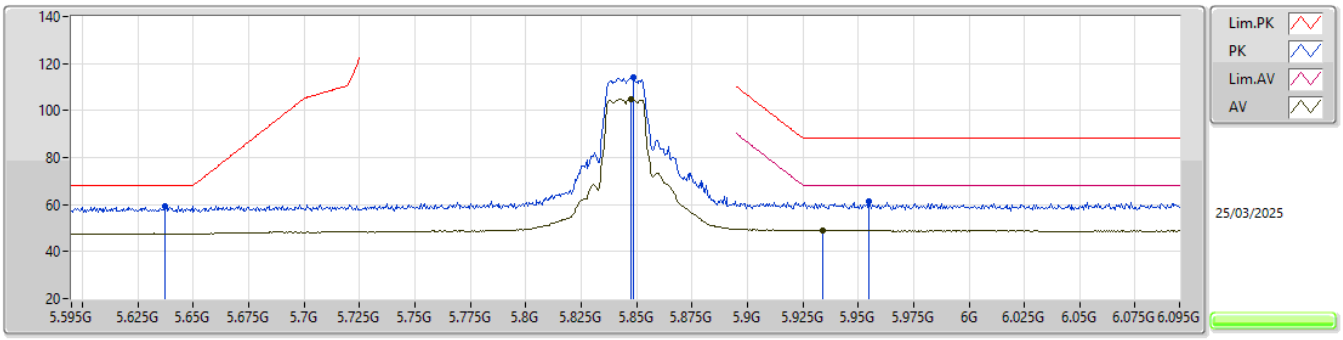
Unwanted Emissions / Band-edge

802.11a_Nss1,(6Mbps)_1TX_5845MHz

Parent Device

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

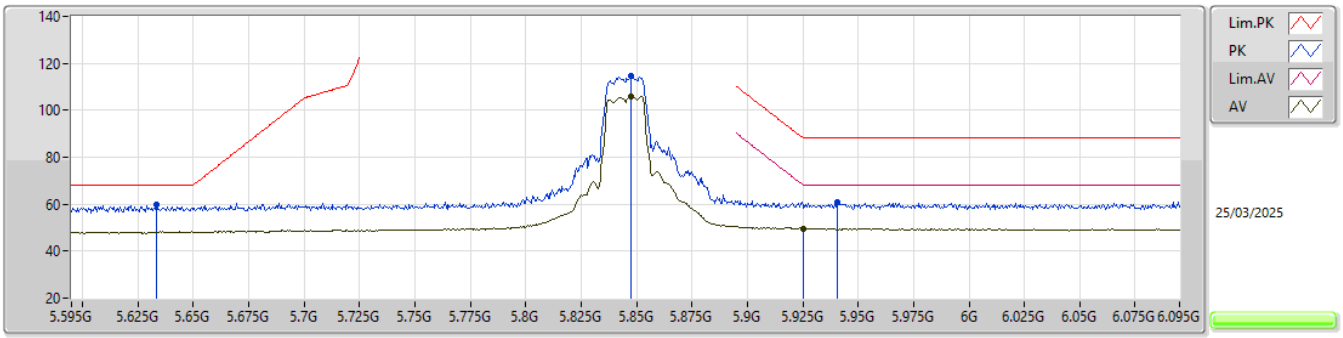


EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.637G	59.48	68.20	-8.72	48.53	3	Vertical	98	2.77	-	34.00	7.65	30.70
PK	5.8485G	114.04	Inf	-Inf	102.86	3	Vertical	98	2.77	-	34.00	7.83	30.65
RMS	5.8475G	105.00	Inf	-Inf	93.81	3	Vertical	98	2.77	-	34.01	7.83	30.65
PK	5.955G	61.40	88.20	-26.80	49.91	3	Vertical	98	2.77	-	34.21	7.90	30.62
RMS	5.934G	49.16	68.20	-19.04	37.70	3	Vertical	98	2.77	-	34.20	7.89	30.63

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX



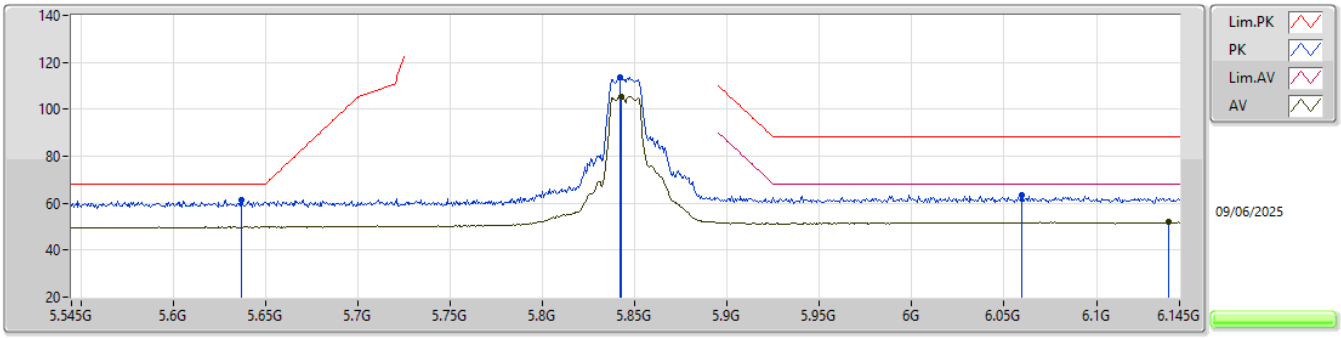
EUT Z_1TX
Setting 23
02-R-E-2-6

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	5.6335G	60.01	68.20	-8.19	49.06	3	Horizontal	197	2.68	-	34.00	7.65	30.70
PK	5.8475G	114.49	Inf	-Inf	103.30	3	Horizontal	197	2.68	-	34.01	7.83	30.65
RMS	5.8475G	105.81	Inf	-Inf	94.62	3	Horizontal	197	2.68	-	34.01	7.83	30.65
PK	5.9405G	60.86	88.20	-27.34	49.39	3	Horizontal	197	2.68	-	34.20	7.89	30.62
RMS	5.9255G	49.72	68.20	-18.48	38.27	3	Horizontal	197	2.68	-	34.20	7.88	30.63

Variant Device

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

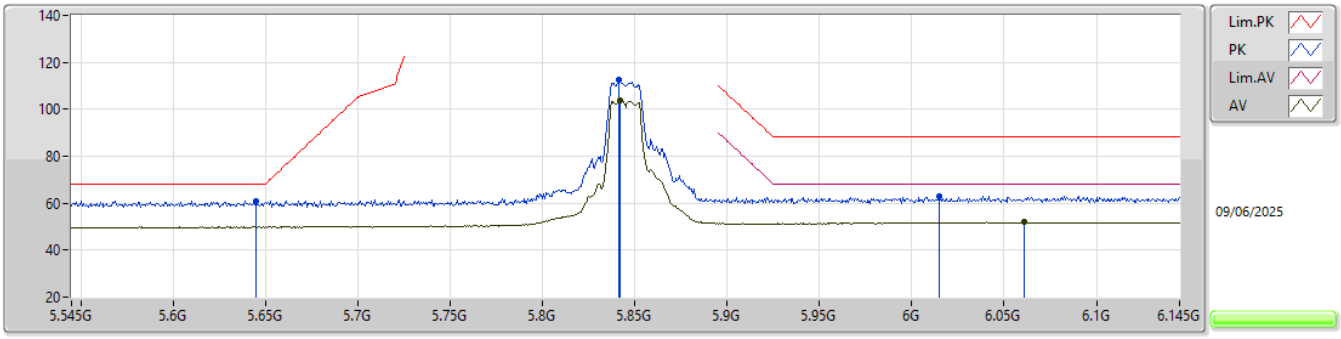


EUT Z_1TX
Setting 23
01-U-V-1-10

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	5.6368G	61.56	68.20	-6.64	52.89	3	Vertical	120	1.01	-	33.97	7.15	32.45
PK	5.842G	113.83	Inf	-Inf	104.45	3	Vertical	120	1.01	-	34.45	7.38	32.45
RMS	5.8426G	105.49	Inf	-Inf	96.10	3	Vertical	120	1.01	-	34.46	7.38	32.45
PK	6.0598G	63.36	88.20	-24.84	52.86	3	Vertical	120	1.01	-	35.40	7.53	32.43
RMS	6.139G	51.93	68.20	-16.27	41.47	3	Vertical	120	1.01	-	35.32	7.56	32.42

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX



EUT Z_1TX
Setting 23
01-U-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	5.6452G	60.87	68.20	-7.33	52.17	3	Horizontal	107	1.00	-	33.99	7.16	32.45
PK	5.8414G	112.77	Inf	-Inf	103.39	3	Horizontal	107	1.00	-	34.45	7.38	32.45
RMS	5.842G	103.73	Inf	-Inf	94.35	3	Horizontal	107	1.00	-	34.45	7.38	32.45
PK	6.0148G	63.15	88.20	-25.05	52.75	3	Horizontal	107	1.00	-	35.33	7.51	32.44
RMS	6.061G	51.83	68.20	-16.37	41.33	3	Horizontal	107	1.00	-	35.40	7.53	32.43

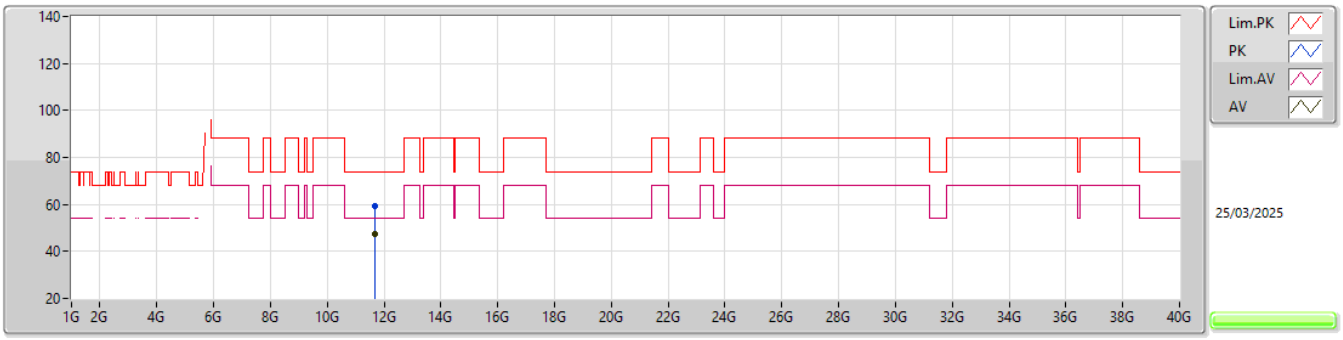
Unwanted Emissions / Harmonic

802.11a_Nss1,(6Mbps)_1TX_5845MHz

Parent Device

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

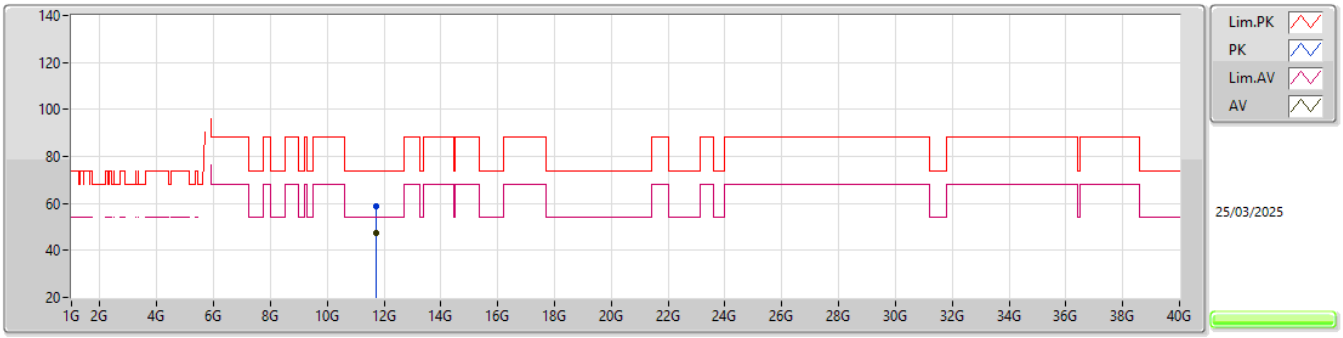


EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.6828G	59.44	74.00	-14.56	38.99	3	Vertical	163	1.67	-	39.43	11.88	30.86
AV	11.69726G	47.52	54.00	-6.48	27.02	3	Vertical	163	1.67	-	39.49	11.89	30.88

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX



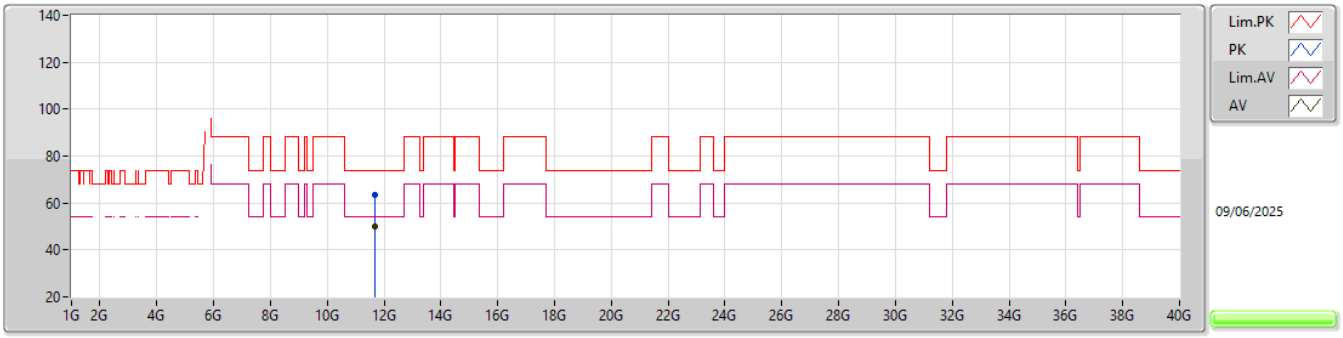
EUT Z_1TX
Setting 23
02-R-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.70206G	58.81	74.00	-15.19	38.30	3	Horizontal	360	1.63	-	39.50	11.89	30.88
AV	11.7044G	47.47	54.00	-6.53	26.95	3	Horizontal	360	1.63	-	39.51	11.89	30.88

Variant Device

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX

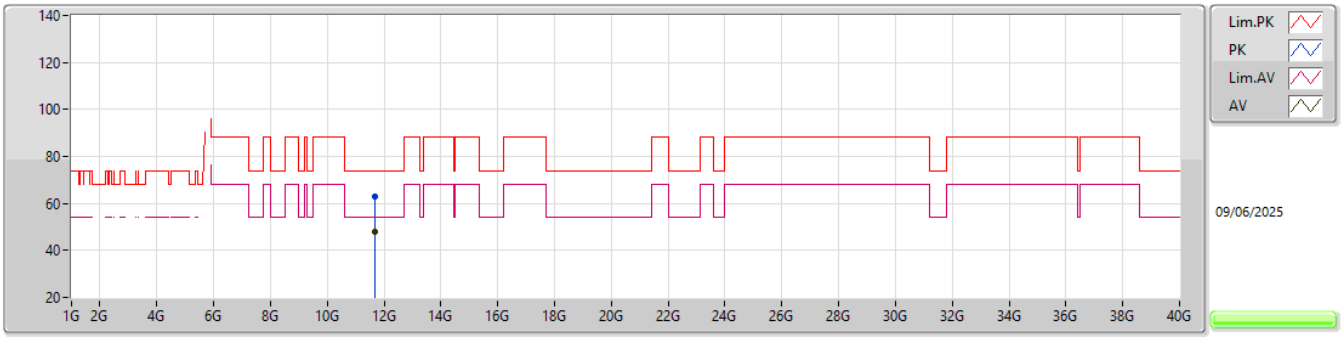


EUT Z_1TX
Setting 23
01-U-V-1

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	11.69015G	63.70	74.00	-10.30	45.42	3	Vertical	77	2.18	-	38.90	12.04	32.66
AV	11.68997G	49.82	54.00	-4.18	31.54	3	Vertical	77	2.18	-	38.90	12.04	32.66

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_1TX

5845MHz_TX



EUT Z_1TX
Setting 23
01-U-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	62.70	74.00	-11.30	44.42	3	Horizontal	27	2.15	-	38.90	12.04	32.66
AV	11.68952G	48.15	54.00	-5.85	29.87	3	Horizontal	27	2.15	-	38.90	12.04	32.66