Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	RIWZAT600B
Equipment	:	ATSC 3.0 STB
Brand Name	:	ZINWELL
Model Name	:	ZAT-600B
Applicant	:	ZINWELL CORPORATION No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Manufacturer	:	ZINWELL CORPORATION No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Jul. 27, 2023, and testing was started from Aug. 16, 2023 and completed on Aug. 22, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR372002AB	01	Initial issue of report	Sep. 05, 2023
FR372002AB	02	Changing the brand name of antenna to “INPAQ” from “PSA” in section 1.1.2.	Sep. 15, 2023

Summary of Test Result

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

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/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: Cathy Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.15-5.25GHz	802.11n HT20	20	1TX
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.15-5.25GHz	802.11n HT40	40	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11a	20	1TX
5.725-5.85GHz	802.11n HT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11n HT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 and VHT80 use a combination of OFDM-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)		
						2.4GHz	5GHz UNII 1	5GHz UNII 3
1	1	INPAQ	ZAT-600B	PCB Antenna	I-PEX	4.02	5.33	3.73

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

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

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

<For 5GHz Band UNII 1, UNII 3>

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

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss 1	0.961	0.17	2.064m	1k
802.11ac VHT20_Nss 1	0.927	0.33	1.933m	1k
802.11ac VHT40_Nss 1	0.907	0.42	952.5u	3k
802.11ac VHT80_Nss 1	0.821	0.86	460.313u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☒	Client
	☒	Point-to-multipoint	☐	Point-to-point
Channel Puncturing Function	☐	Supported	☒	Unsupported
Test Software Version	platfrom-tools_r34.0.3			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Eason Chen	24.2~25.1 / 62~71	Aug. 22, 2023
Radiated Below 1GHz	03CH01-CB	Chris Li	20~21 / 55-58	Aug. 16, 2023
Radiated Above 1GHz	03CH02-CB	Black Lu	22.6~23.2 / 59~63	Aug. 17, 2023~ Aug. 21, 2023
AC Conduction	CO01-CB	Gray Lee	23~24 / 53~54	Aug. 21, 2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 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	2.2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	62
5200MHz	63
5240MHz	63
5745MHz	63
5785MHz	63
5825MHz	63
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	63
5200MHz	63
5240MHz	63
5745MHz	63
5785MHz	63
5825MHz	63
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	49
5230MHz	63
5755MHz	63
5795MHz	63
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	48
5775MHz	63

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with WLAN 2.4GHz + Coaxial port-Video + USB port-load + Adapter
2	EUT with WLAN 5GHz + Coaxial port-Video + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT with WLAN 2.4GHz + Coaxial port-load + USB port-Video + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
	After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis with WLAN 2.4GHz + Coaxial port-Video + USB port-load + Adapter
2	EUT in Z axis with WLAN 5GHz + Coaxial port-Video + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis with WLAN 2.4GHz + Coaxial port-load + USB port-Video + Adapter
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT in Z axis

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	APD	WB-18Q12FU1	INPUT: 100-240V~,50-60Hz,0.6AMax OUTPUT: 12V, 1.5A
Other			
Remote controller*1			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	Remote controller	GSD	RCR69X34B034C	N/A
C	LCD Monitor	PHILIPS	288E2A/96	N/A
D	LAN NB	DELL	T3400	N/A
E	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
F	Terminal system	ZINWELL	ZMA-9303	N/A
G	DVD Player	Ploneer	DV-600AV-S	N/A

For Radiated (below 1GHz):

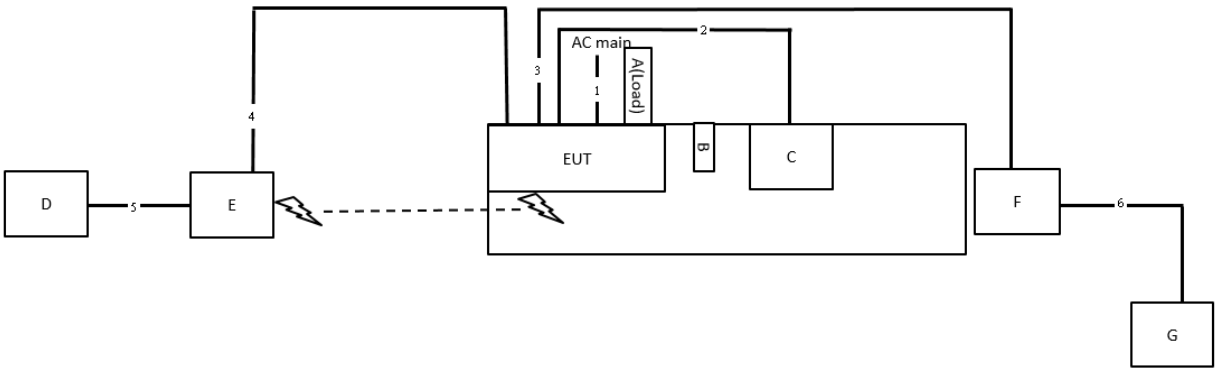
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	WLAN AP	NETGEAR	N600	N/A
B	LAN NB	DELL	E4300	N/A
C	LCD Monitor	PHILIPS	288E2A/96	N/A
D	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
E	WLAN 2.4G NB	DELL	E4300	N/A
F	Terminal System	ZINWELL	ZMA-9303	N/A
G	Blu-ray Disc Player	Panasonic	DP-UB320GTK	N/A
H	Flash disk3.0	Transcend	JetFlash-700	N/A
I	Remote controller	GSD	RCR69X34B034C	N/A

For Radiated (above 1GHz) and RF Conducted:

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

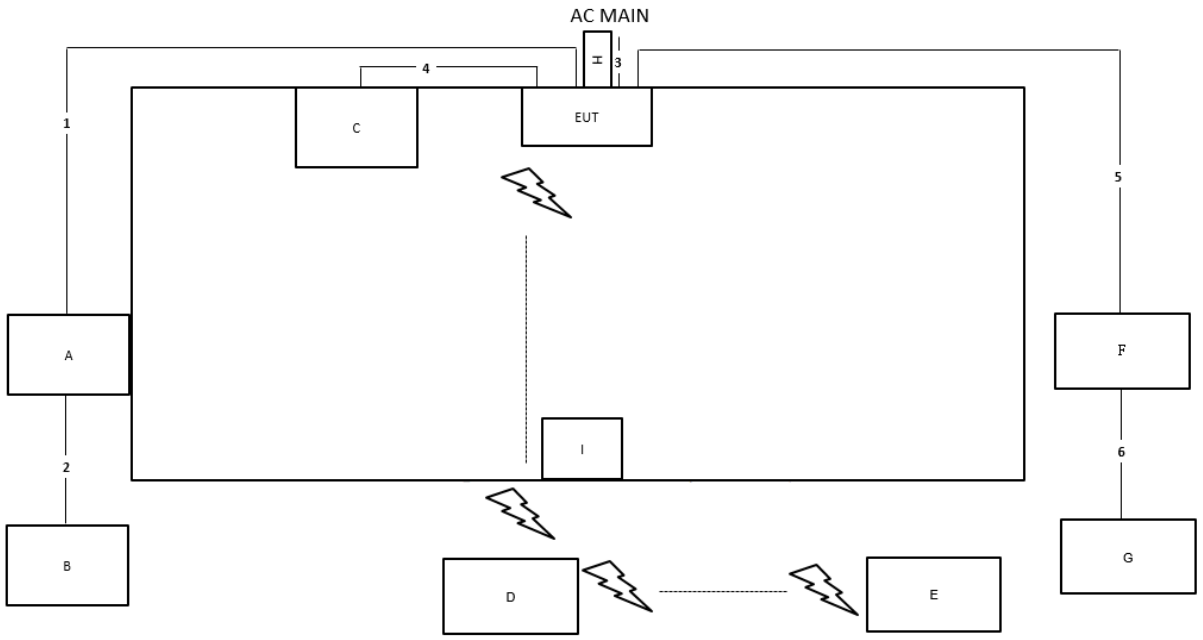
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



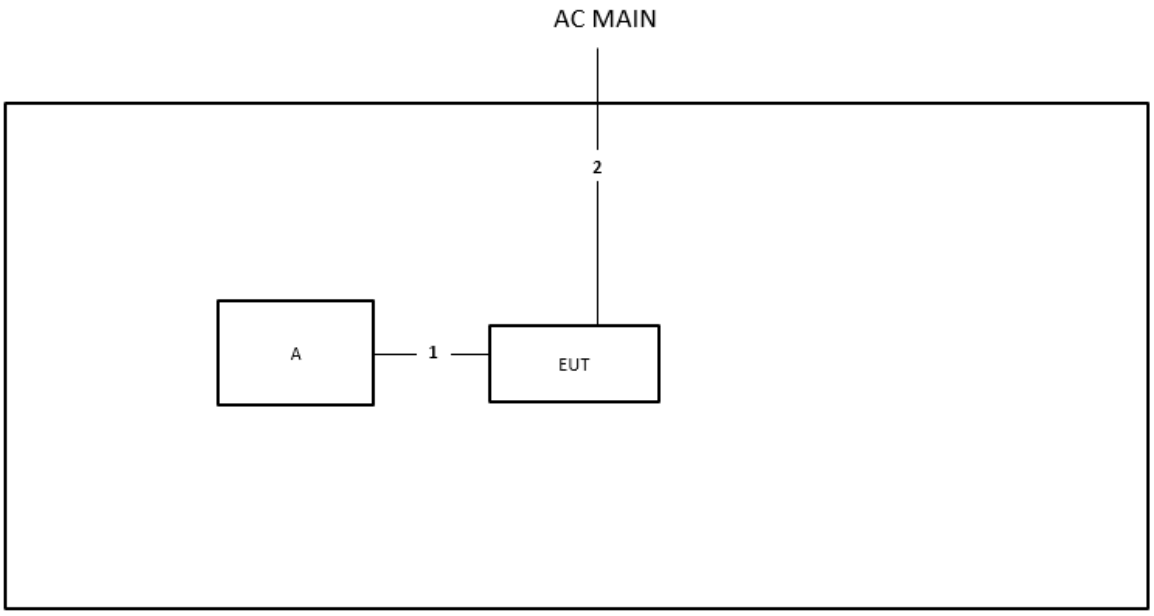
Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	HDMI cable	Yes	1.5m
3	Coaxial cable	Yes	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	3m
6	HDMI cable	Yes	1.5m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.6m
4	HDMI cable	Yes	1.5m
5	Coaxial cable	Yes	10m
6	HDMI cable	Yes	1.5m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	Power cable	No	1.6m

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

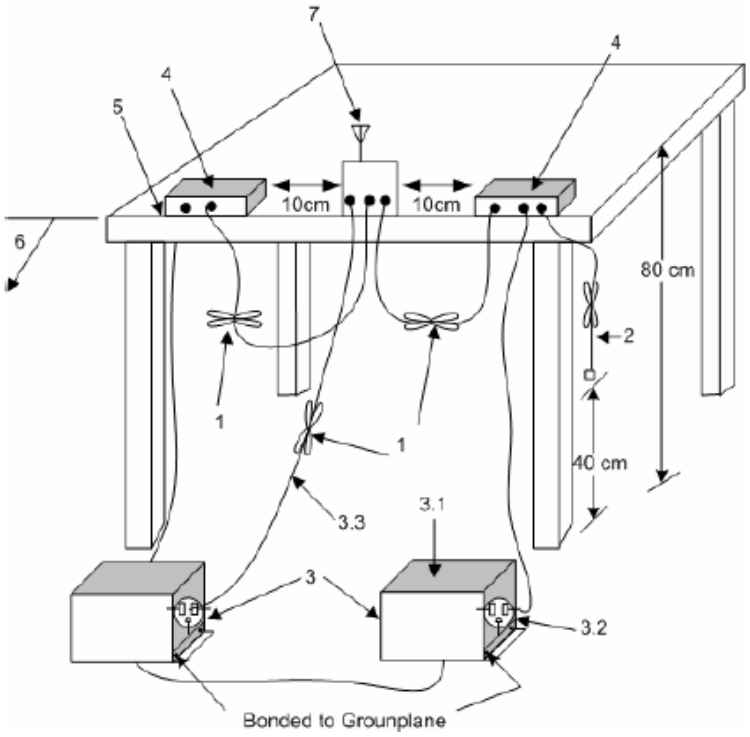
Refer a test equipment and calibration data table in this test report.

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

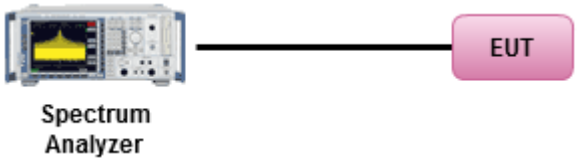
3.2.2 Measuring Instruments

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 Output Power

3.3.1 Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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 Power Spectral Density

3.4.1 Limit

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

3.4.2 Measuring Instruments

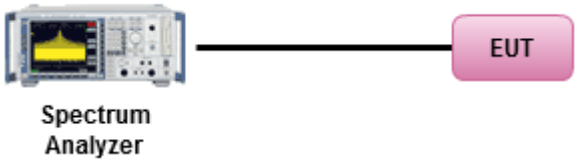
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

Test Method	
	▪ 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 Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of

linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Measuring Instruments

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

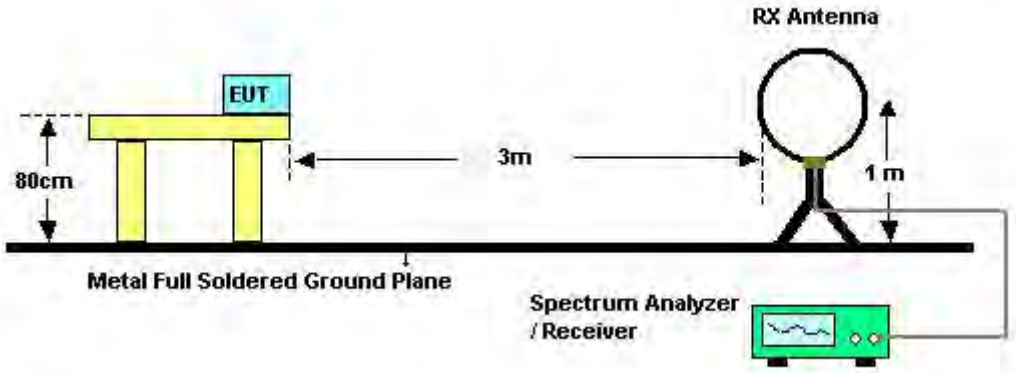
3.5.3 Test Procedures

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

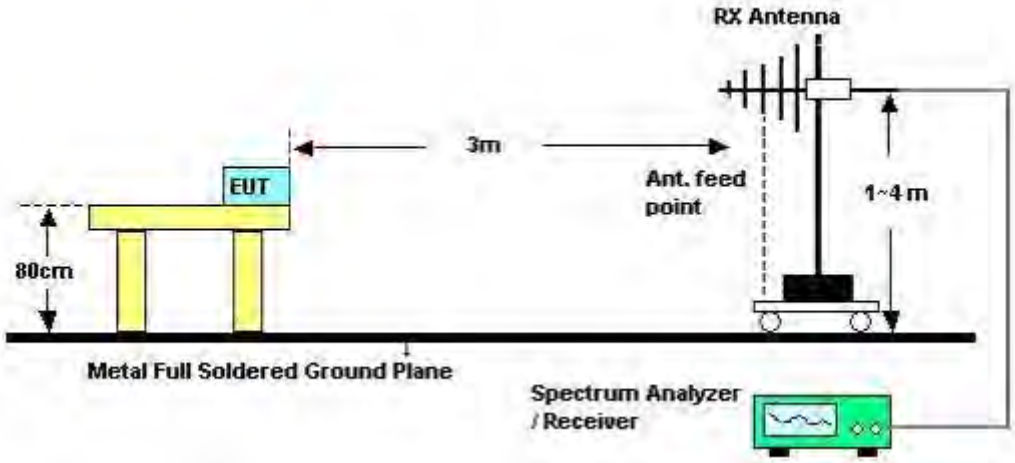
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

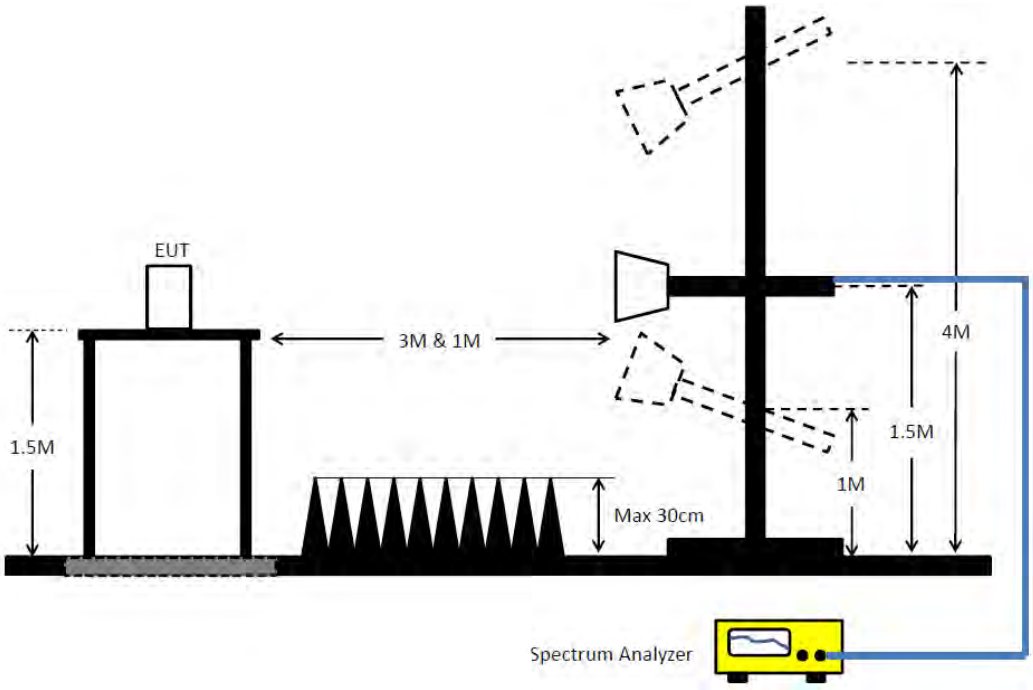
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 23, 2023	Jun. 22, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Dec. 05, 2022	Dec. 04, 2023	Radiation (03CH02-CB)

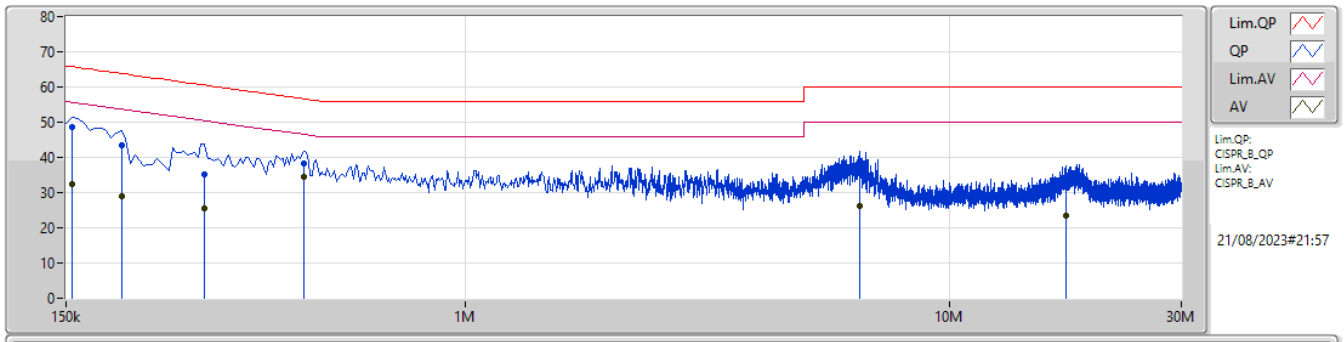
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

Summary

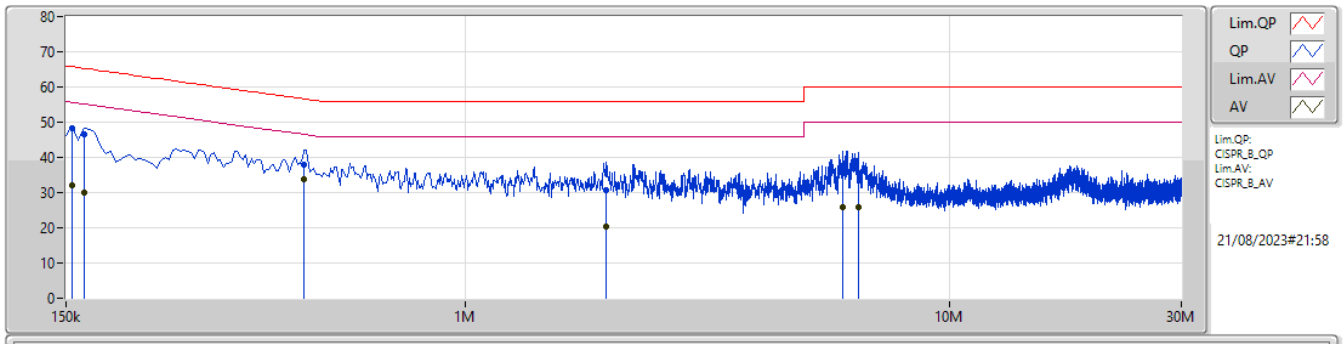
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	465k	34.34	46.61	-12.27	Line

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	48.66	65.75	-17.09	10.00	Line	-	38.66	0.09	0.04	9.87
AV	154.5k	32.25	55.75	-23.50	10.00	Line	-	22.25	0.09	0.04	9.87
QP	195k	43.41	63.82	-20.41	9.98	Line	-	33.43	0.08	0.04	9.86
AV	195k	28.94	53.82	-24.88	9.98	Line	-	18.96	0.08	0.04	9.86
QP	289.5k	35.11	60.53	-25.42	10.02	Line	-	25.09	0.09	0.05	9.88
AV	289.5k	25.55	50.53	-24.98	10.02	Line	-	15.53	0.09	0.05	9.88
QP	465k	38.14	56.61	-18.47	10.05	Line	-	28.09	0.09	0.06	9.90
AV	465k	34.34	46.61	-12.27	10.05	Line	"Worst"	24.29	0.09	0.06	9.90
QP	6.495M	35.97	60.00	-24.03	10.27	Line	-	25.70	0.21	0.13	9.93
AV	6.495M	26.30	50.00	-23.70	10.27	Line	-	16.03	0.21	0.13	9.93
QP	17.304M	31.56	60.00	-28.44	10.47	Line	-	21.09	0.29	0.19	9.99
AV	17.304M	23.52	50.00	-26.48	10.47	Line	-	13.05	0.29	0.19	9.99

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	48.28	65.75	-17.47	9.98	Neutral	-	38.30	0.07	0.04	9.87
AV	154.5k	32.12	55.75	-23.63	9.98	Neutral	-	22.14	0.07	0.04	9.87
QP	163.5k	46.53	65.27	-18.74	9.98	Neutral	-	36.55	0.07	0.04	9.87
AV	163.5k	29.90	55.27	-25.37	9.98	Neutral	-	19.92	0.07	0.04	9.87
QP	465k	37.89	56.61	-18.72	10.03	Neutral	-	27.86	0.07	0.06	9.90
AV	465k	33.72	46.61	-12.89	10.03	Neutral	"Worst"	23.69	0.07	0.06	9.90
QP	1.955M	30.76	56.00	-25.24	10.09	Neutral	-	20.67	0.10	0.09	9.90
AV	1.955M	20.19	46.00	-25.81	10.09	Neutral	-	10.10	0.10	0.09	9.90
QP	6.005M	35.68	60.00	-24.32	10.22	Neutral	-	25.46	0.17	0.13	9.92
AV	6.005M	25.86	50.00	-24.14	10.22	Neutral	-	15.64	0.17	0.13	9.92
QP	6.464M	35.51	60.00	-24.49	10.24	Neutral	-	25.27	0.18	0.13	9.93
AV	6.464M	25.82	50.00	-24.18	10.24	Neutral	-	15.58	0.18	0.13	9.93

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	37.565M	18.6M	18M6D1D	32.505M	17.576M
802.11ac VHT20_Nss1,(MCS0)_1TX	39.6M	19.873M	19M9D1D	38.06M	18.989M
802.11ac VHT40_Nss1,(MCS0)_1TX	78.76M	37.73M	37M7D1D	42.46M	36.418M
802.11ac VHT80_Nss1,(MCS0)_1TX	83.16M	75.581M	75M6D1D	83.16M	75.581M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.555M	27.339M	27M3D1D	16.445M	22.593M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.71M	29.023M	29M0D1D	16.665M	23.82M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.52M	50.151M	50M2D1D	36.3M	47.743M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.24M	101.515M	102MD1D	75.24M	101.515M

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

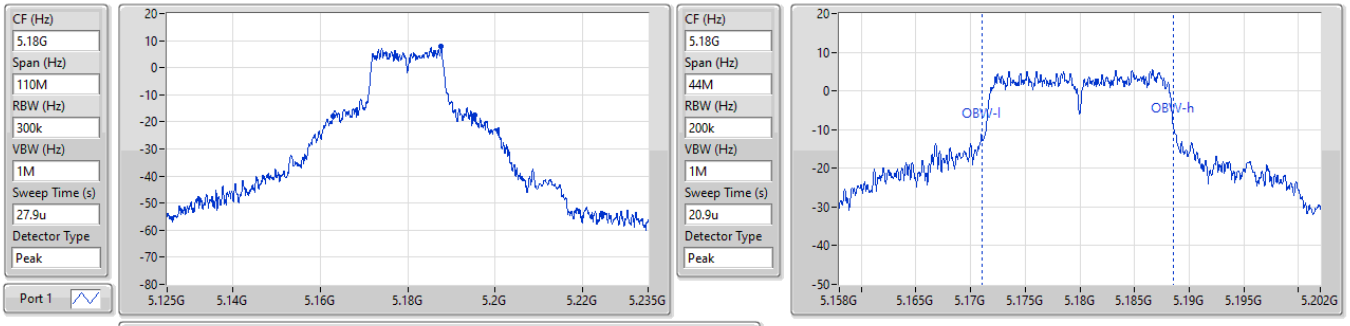
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	32.505M	17.576M
5200MHz	Pass	Inf	37.18M	18.338M
5240MHz	Pass	Inf	37.565M	18.6M
5745MHz	Pass	500k	16.5M	22.593M
5785MHz	Pass	500k	16.555M	25.058M
5825MHz	Pass	500k	16.445M	27.339M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	38.06M	19.873M
5200MHz	Pass	Inf	39.6M	19.604M
5240MHz	Pass	Inf	38.555M	18.989M
5745MHz	Pass	500k	17.71M	23.82M
5785MHz	Pass	500k	17.655M	25.714M
5825MHz	Pass	500k	16.665M	29.023M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	42.46M	36.418M
5230MHz	Pass	Inf	78.76M	37.73M
5755MHz	Pass	500k	36.52M	47.743M
5795MHz	Pass	500k	36.3M	50.151M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	83.16M	75.581M
5775MHz	Pass	500k	75.24M	101.515M

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

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5180MHz

22/08/2023

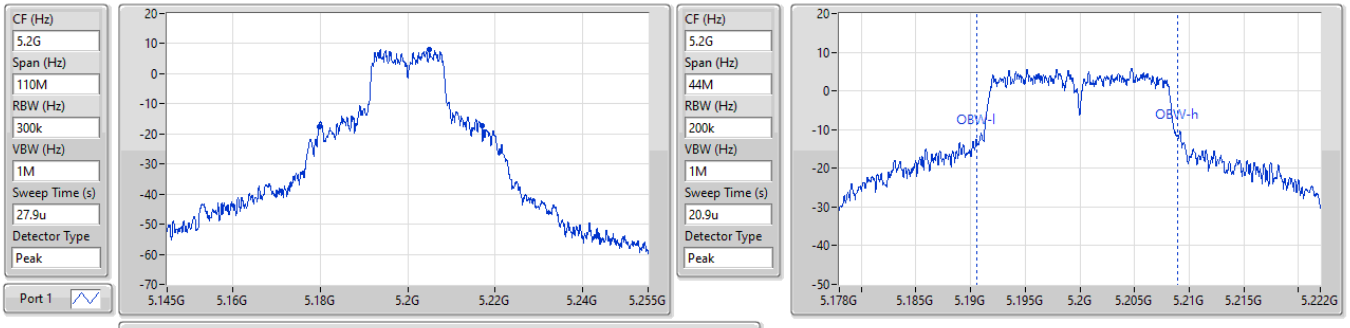


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.505M	5.16295G	5.195455G	17.576M	5.171015G	5.188591G	Inf	1

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5200MHz

22/08/2023

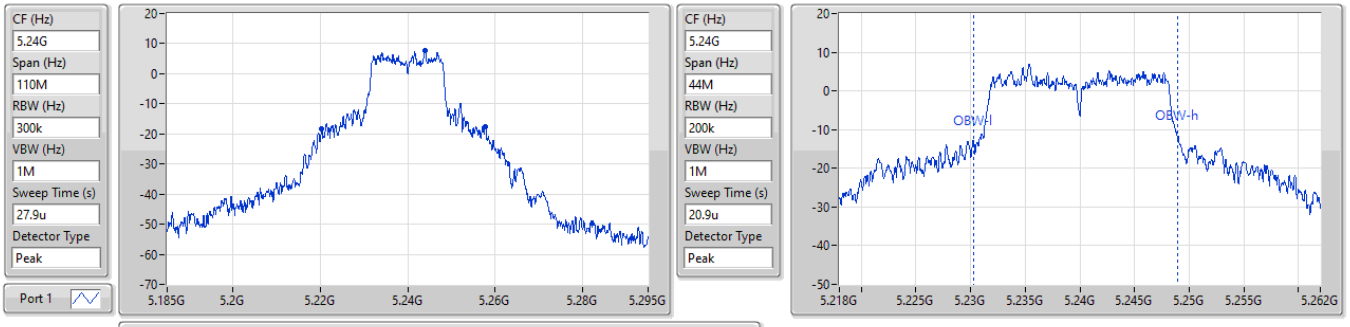


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.18M	5.17976G	5.21694G	18.338M	5.190596G	5.208934G	Inf	1

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5240MHz

22/08/2023

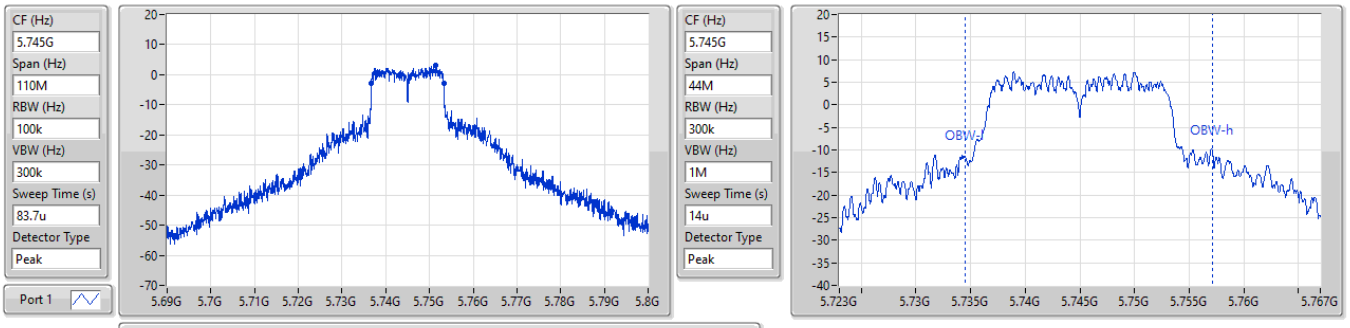


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.565M	5.22031G	5.257875G	18.6M	5.230304G	5.248904G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5745MHz

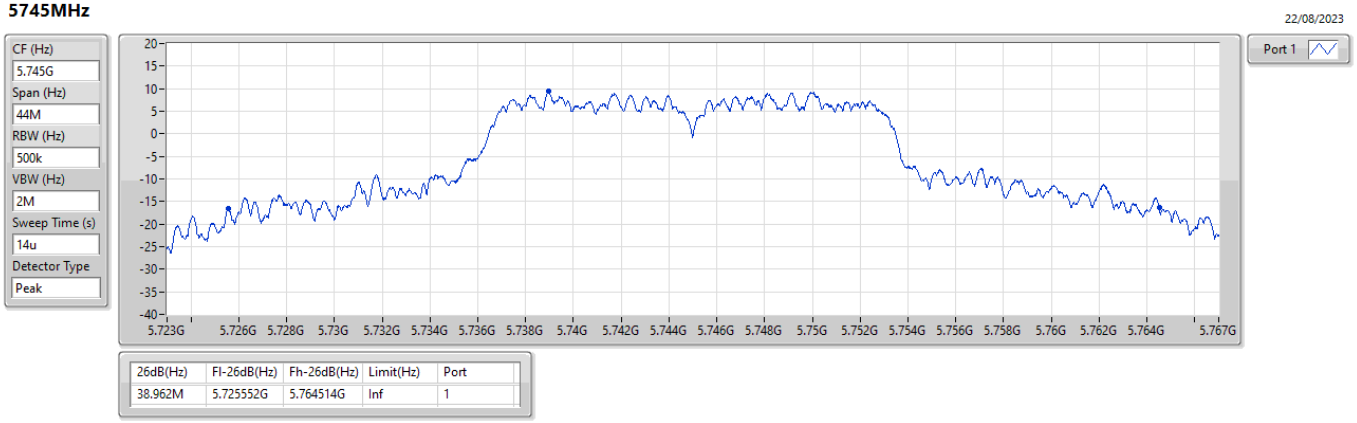
22/08/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	5.73675G	5.75325G	22.593M	5.734521G	5.757113G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

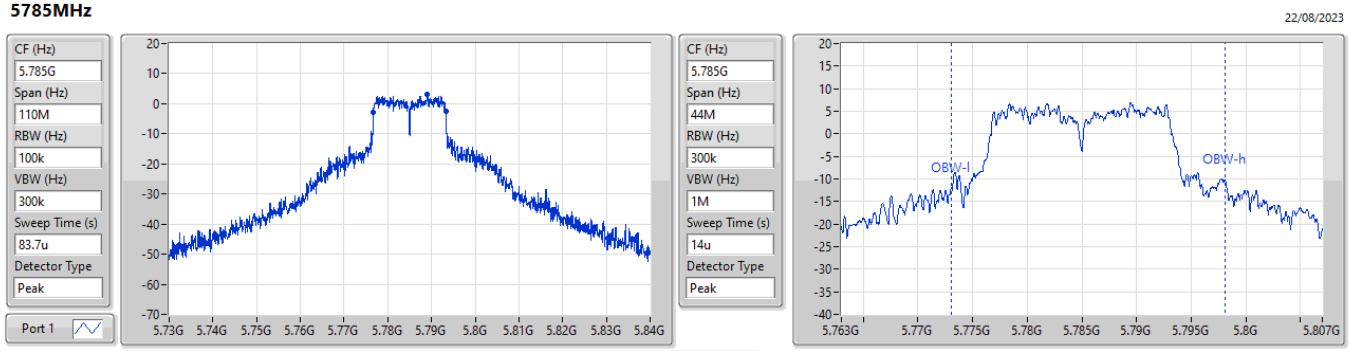
5745MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
38.962M	5.725552G	5.764514G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

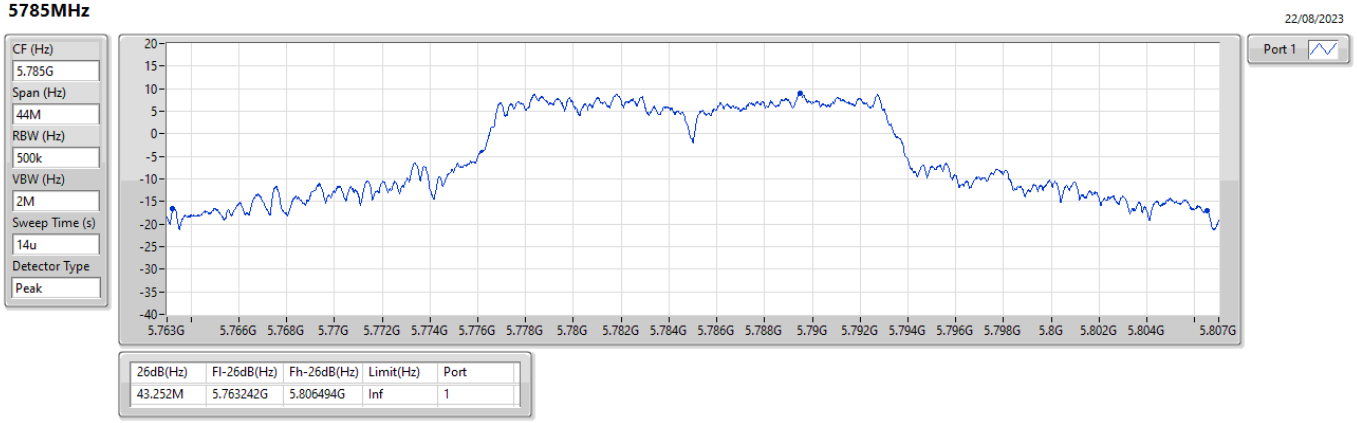
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.555M	5.776695G	5.79325G	25.058M	5.773036G	5.798094G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

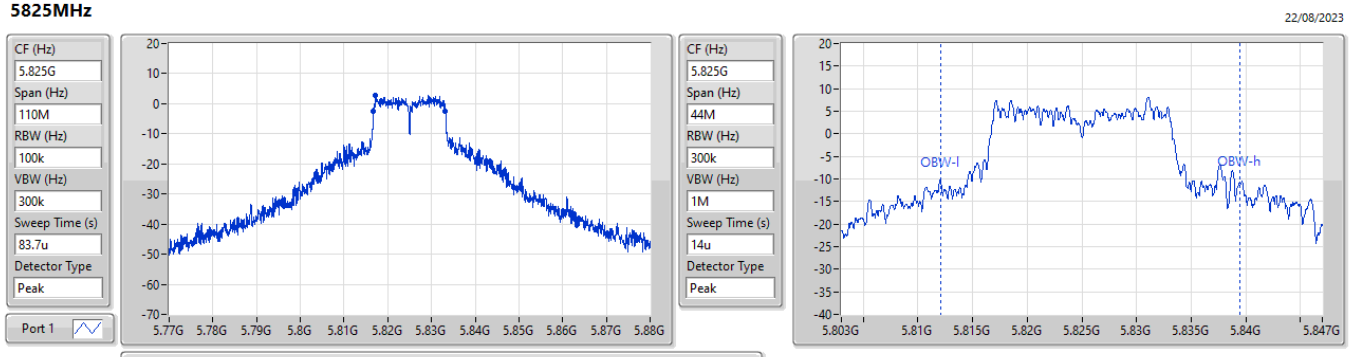
5785MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.252M	5.763242G	5.806494G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

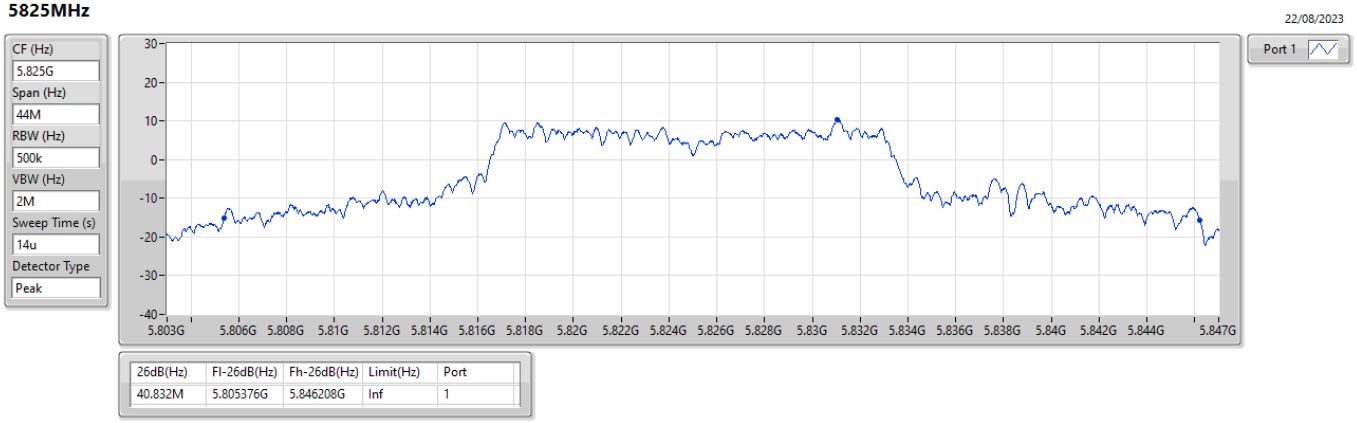
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.445M	5.81675G	5.833195G	27.339M	5.812127G	5.839466G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

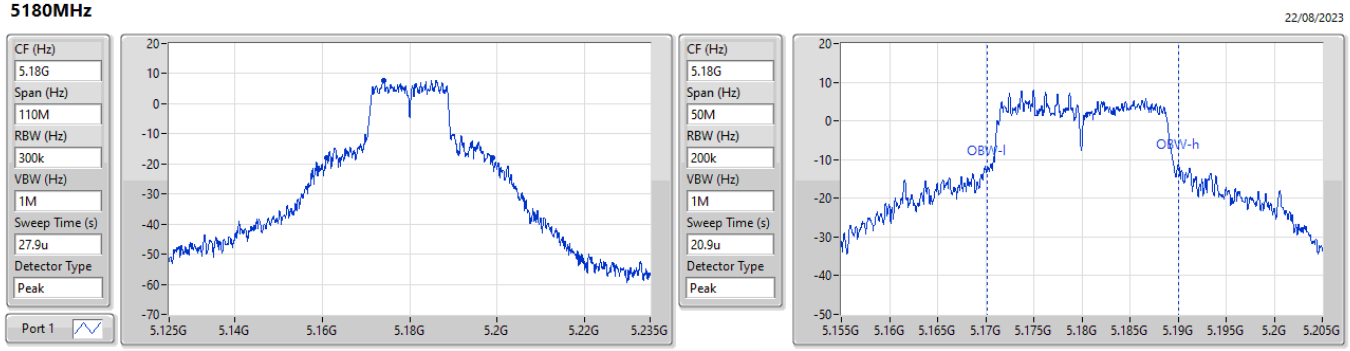
5825MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
40.832M	5.805376G	5.846208G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5180MHz

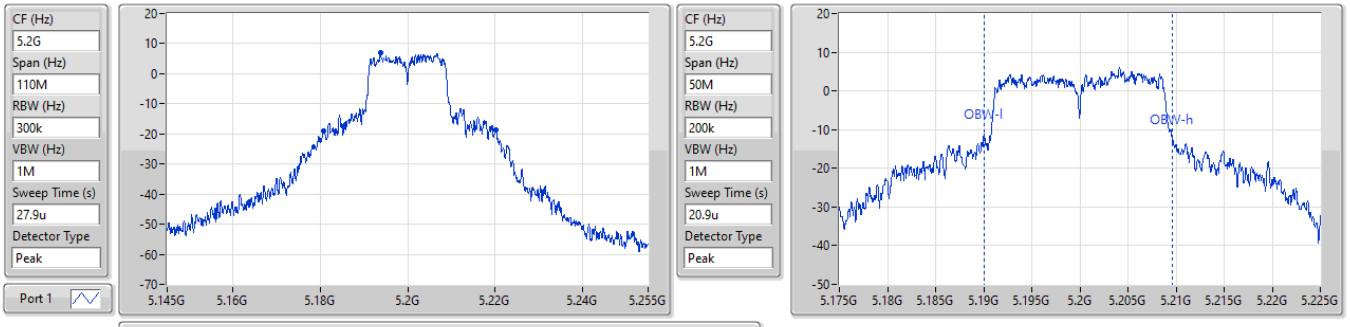


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.06M	5.160915G	5.198975G	19.873M	5.170195G	5.190068G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5200MHz

22/08/2023

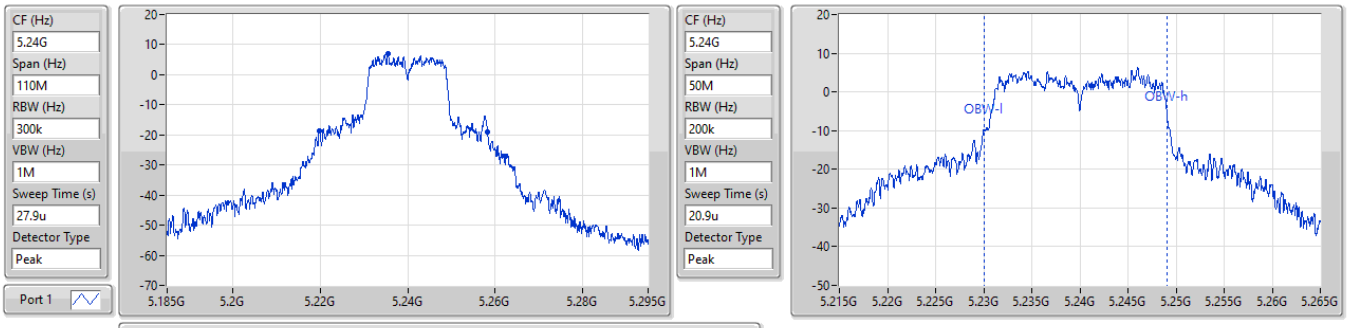


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.6M	5.180695G	5.220295G	19.604M	5.190003G	5.209607G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5240MHz

22/08/2023

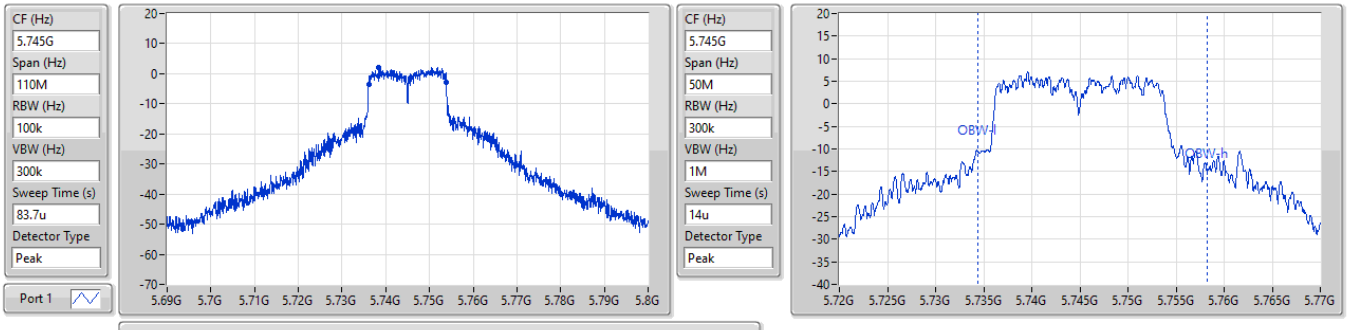


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.555M	5.219705G	5.25826G	18.989M	5.230083G	5.249072G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5745MHz

22/08/2023

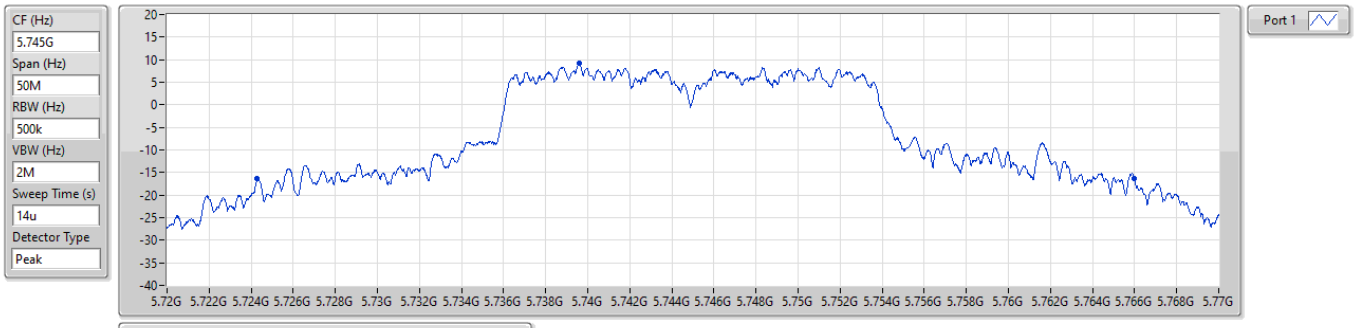


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.71M	5.73609G	5.7538G	23.82M	5.734397G	5.758218G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5745MHz

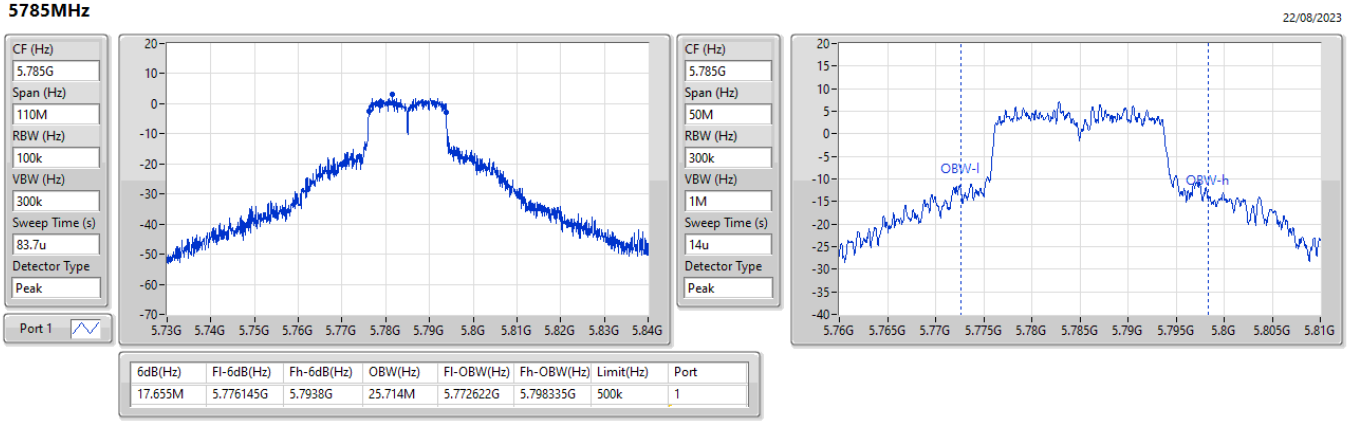
22/08/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
41.725M	5.724275G	5.766G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

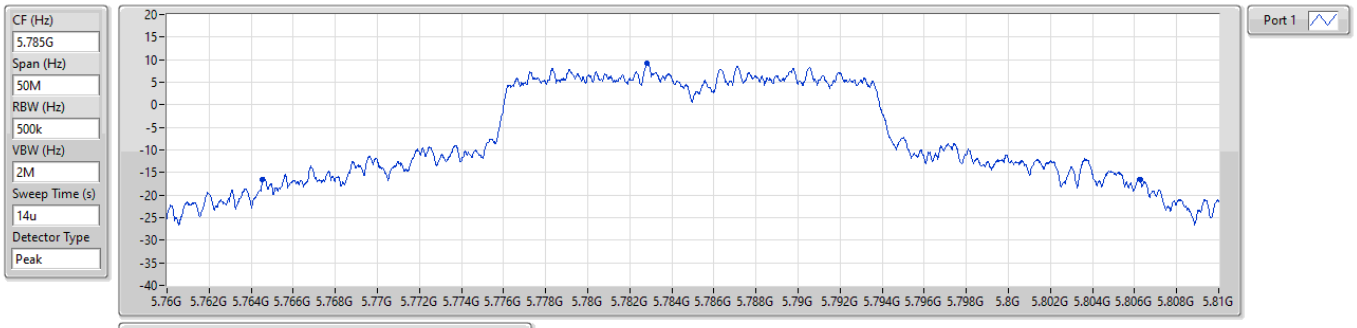
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.655M	5.776145G	5.7938G	25.714M	5.772622G	5.798335G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5785MHz

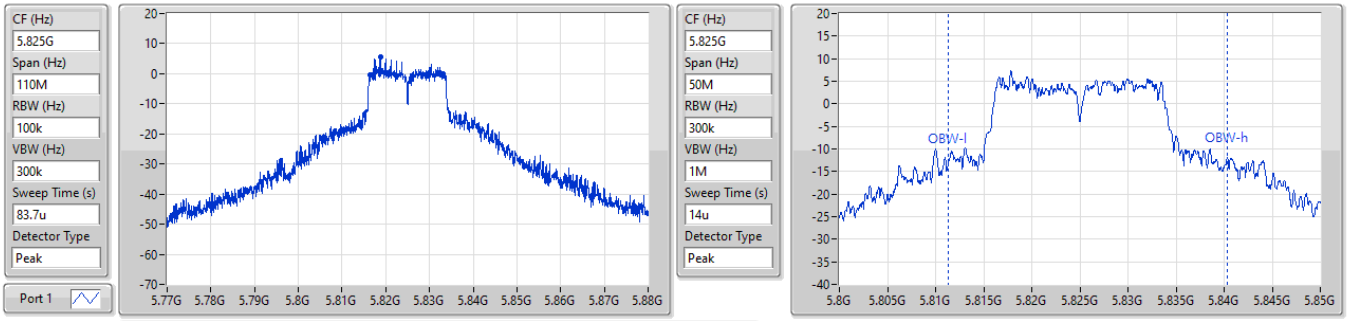


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
41.75M	5.764525G	5.806275G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5825MHz

22/08/2023

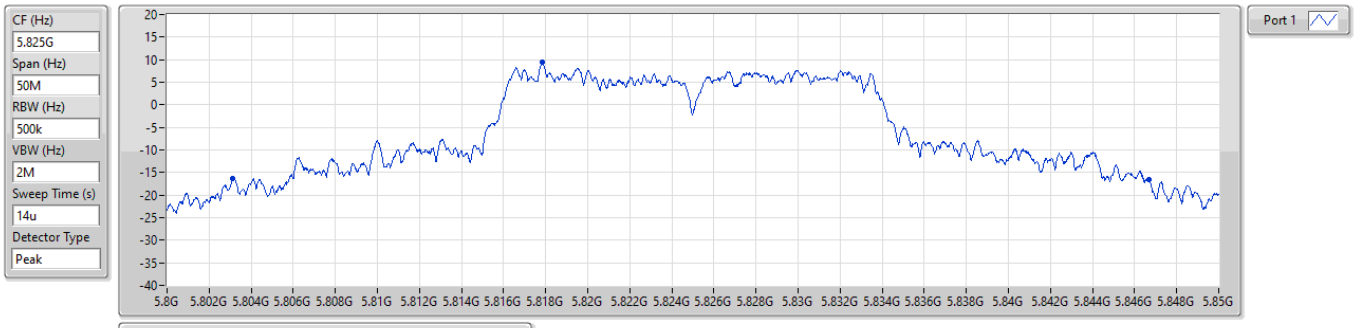


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.665M	5.816475G	5.83314G	29.023M	5.811346G	5.840369G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5825MHz

22/08/2023

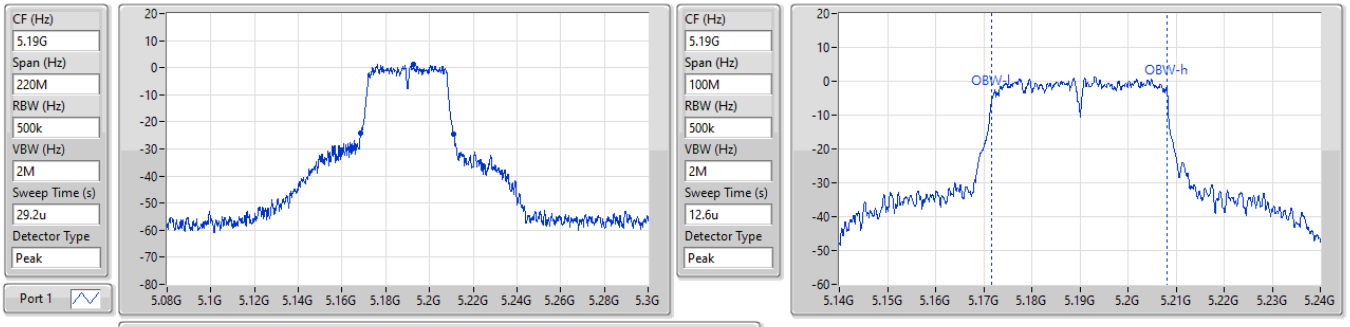


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.575M	5.803125G	5.8467G	Inf	1

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5190MHz

22/08/2023

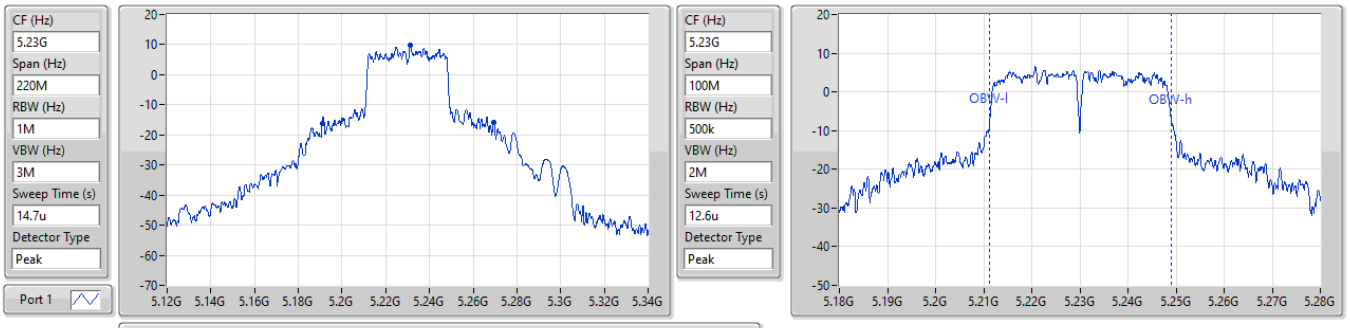


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.46M	5.16866G	5.21112G	36.418M	5.17171G	5.208128G	Inf	1

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5230MHz

22/08/2023

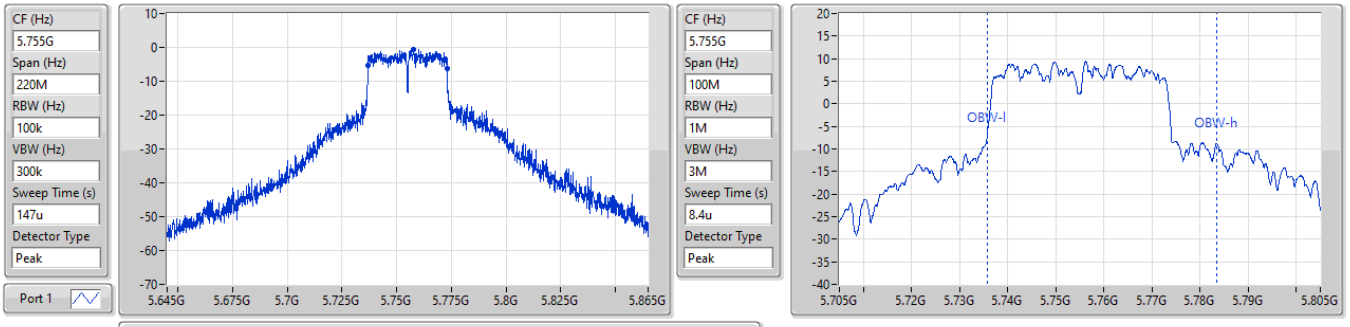


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
78.76M	5.19084G	5.2696G	37.73M	5.21131G	5.24904G	Inf	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5755MHz

22/08/2023

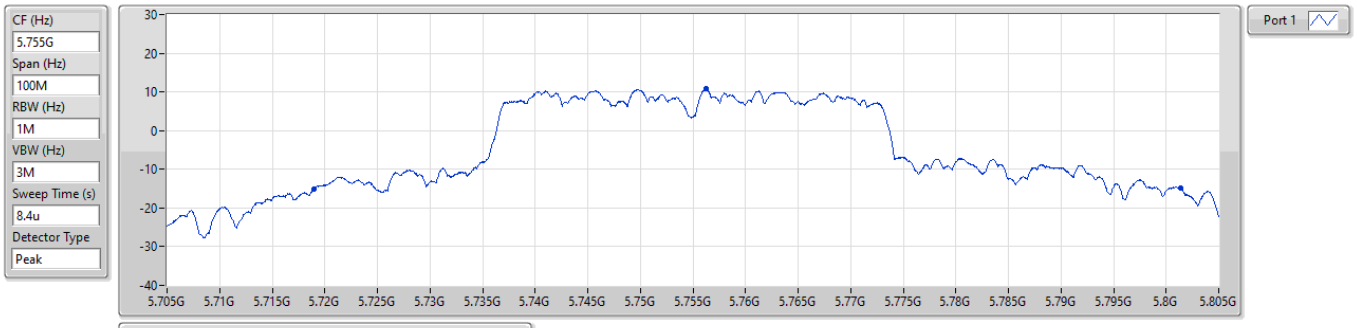


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.52M	5.73674G	5.77326G	47.743M	5.735717G	5.78346G	500k	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5755MHz

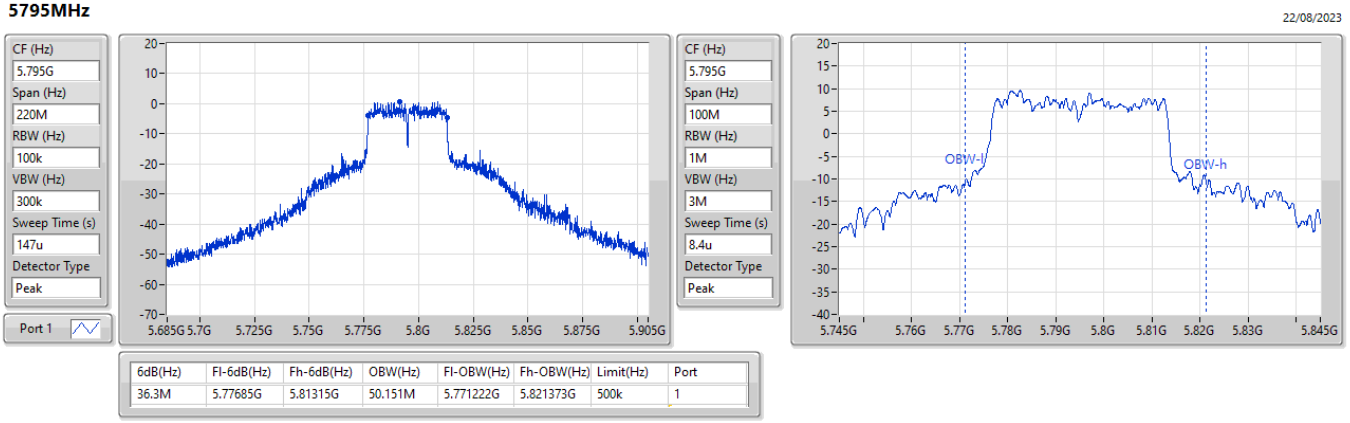
22/08/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
82.45M	5.71895G	5.8014G	Inf	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

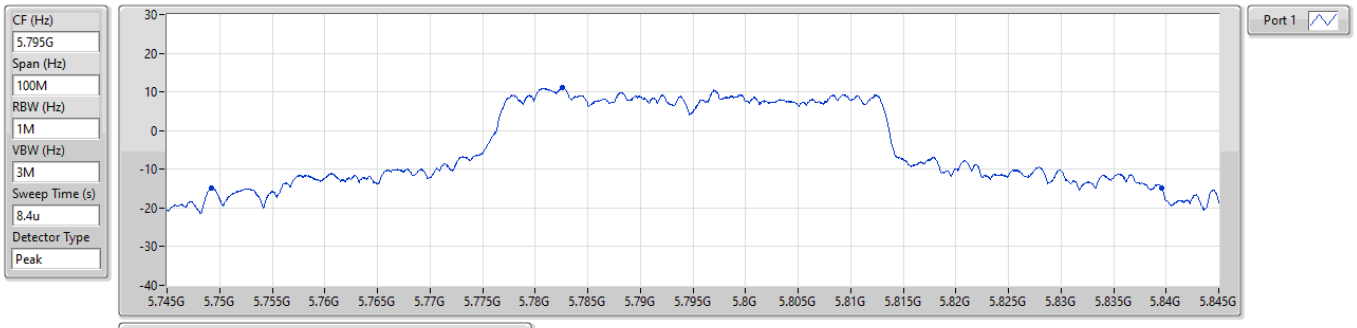
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77685G	5.81315G	50.151M	5.771222G	5.821373G	500k	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5795MHz

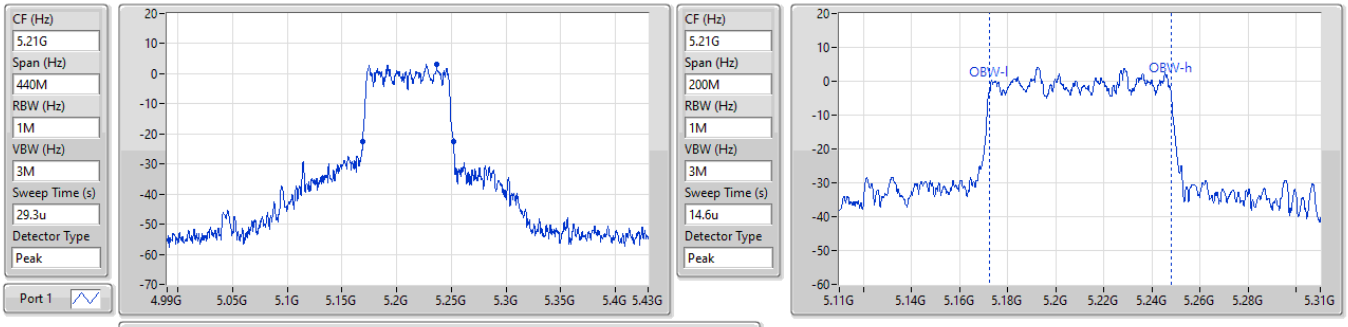


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
90.4M	5.7492G	5.8396G	Inf	1

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

5210MHz

22/08/2023

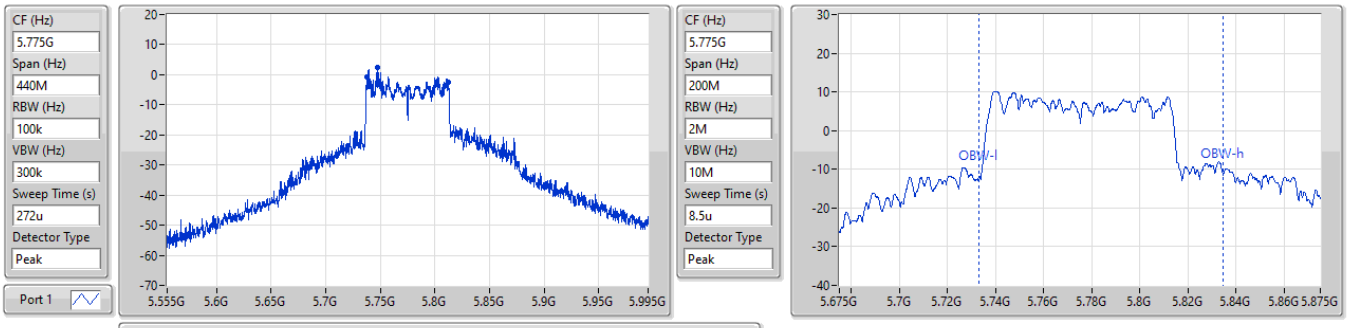


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.16M	5.16886G	5.25202G	75.581M	5.172225G	5.247806G	Inf	1

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

5775MHz

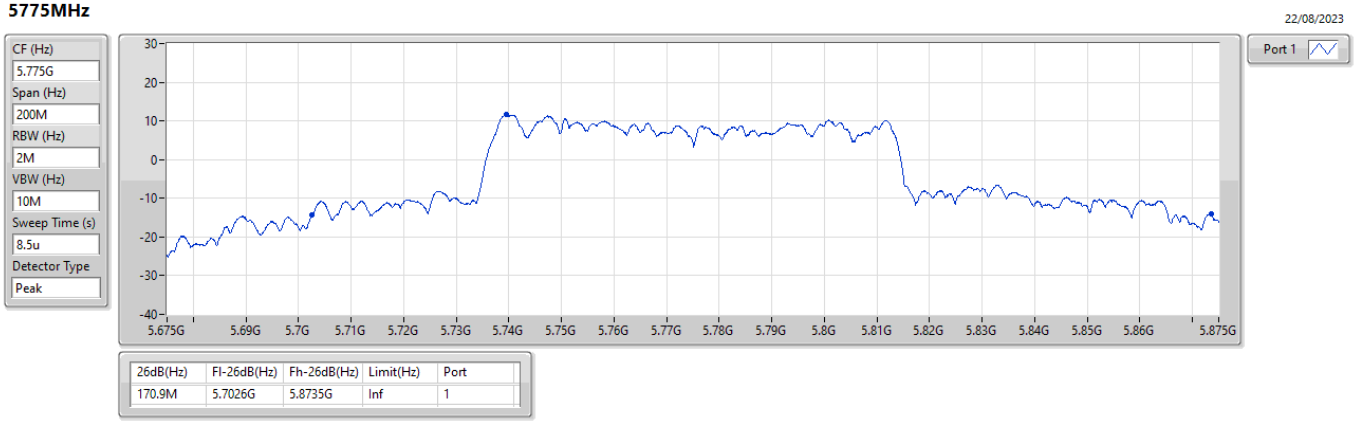
22/08/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.24M	5.73738G	5.81262G	101.515M	5.733203G	5.834718G	500k	1

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

5775MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
170.9M	5.7026G	5.8735G	Inf	1

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.99	0.06295
802.11ac VHT20_Nss1,(MCS0)_1TX	18.25	0.06683
802.11ac VHT40_Nss1,(MCS0)_1TX	17.79	0.06012
802.11ac VHT80_Nss1,(MCS0)_1TX	13.63	0.02307
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	18.02	0.06339
802.11ac VHT20_Nss1,(MCS0)_1TX	17.74	0.05943
802.11ac VHT40_Nss1,(MCS0)_1TX	17.72	0.05916
802.11ac VHT80_Nss1,(MCS0)_1TX	18.03	0.06353

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	5.33	17.73	17.73	23.98
5200MHz	Pass	5.33	17.99	17.99	23.98
5240MHz	Pass	5.33	17.96	17.96	23.98
5745MHz	Pass	3.73	17.85	17.85	30.00
5785MHz	Pass	3.73	18.02	18.02	30.00
5825MHz	Pass	3.73	17.87	17.87	30.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	5.33	18.25	18.25	23.98
5200MHz	Pass	5.33	17.96	17.96	23.98
5240MHz	Pass	5.33	17.79	17.79	23.98
5745MHz	Pass	3.73	17.58	17.58	30.00
5785MHz	Pass	3.73	17.74	17.74	30.00
5825MHz	Pass	3.73	17.68	17.68	30.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	5.33	12.61	12.61	23.98
5230MHz	Pass	5.33	17.79	17.79	23.98
5755MHz	Pass	3.73	17.65	17.65	30.00
5795MHz	Pass	3.73	17.72	17.72	30.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	5.33	13.63	13.63	23.98
5775MHz	Pass	3.73	18.03	18.03	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_1TX	4.93
802.11ac VHT20_Nss1,(MCS0)_1TX	5.29
802.11ac VHT40_Nss1,(MCS0)_1TX	1.88
802.11ac VHT80_Nss1,(MCS0)_1TX	-4.28
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	3.27
802.11ac VHT20_Nss1,(MCS0)_1TX	3.15
802.11ac VHT40_Nss1,(MCS0)_1TX	0.10
802.11ac VHT80_Nss1,(MCS0)_1TX	-1.42

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

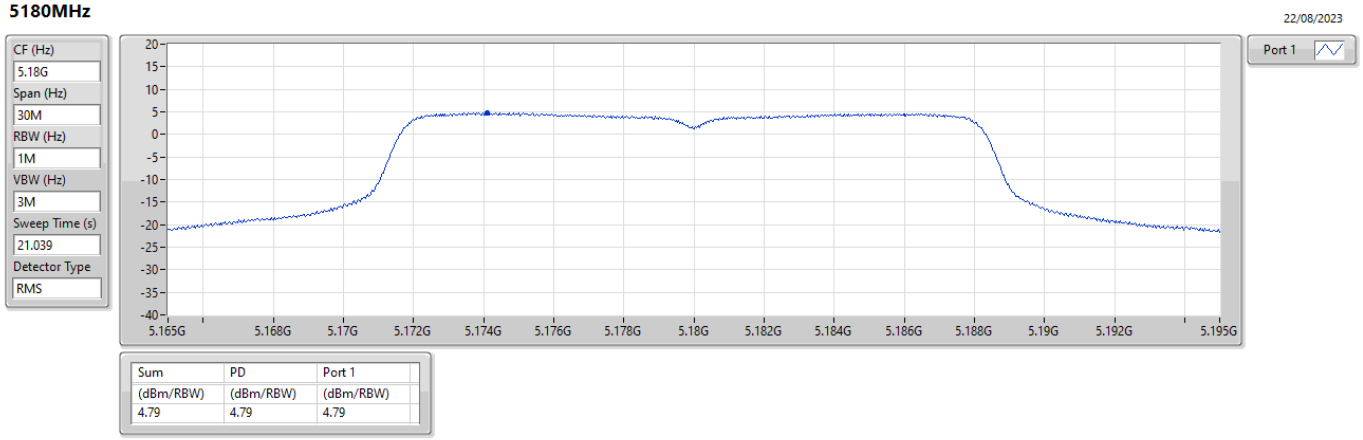
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	5.33	4.79	4.79	11.00
5200MHz	Pass	5.33	4.85	4.85	11.00
5240MHz	Pass	5.33	4.93	4.93	11.00
5745MHz	Pass	3.73	3.13	3.13	30.00
5785MHz	Pass	3.73	3.21	3.21	30.00
5825MHz	Pass	3.73	3.27	3.27	30.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	5.33	5.29	5.29	11.00
5200MHz	Pass	5.33	4.74	4.74	11.00
5240MHz	Pass	5.33	4.75	4.75	11.00
5745MHz	Pass	3.73	2.88	2.88	30.00
5785MHz	Pass	3.73	2.99	2.99	30.00
5825MHz	Pass	3.73	3.15	3.15	30.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	5.33	-2.86	-2.86	11.00
5230MHz	Pass	5.33	1.88	1.88	11.00
5755MHz	Pass	3.73	-0.07	-0.07	30.00
5795MHz	Pass	3.73	0.10	0.10	30.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	5.33	-4.28	-4.28	11.00
5775MHz	Pass	3.73	-1.42	-1.42	30.00

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;

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

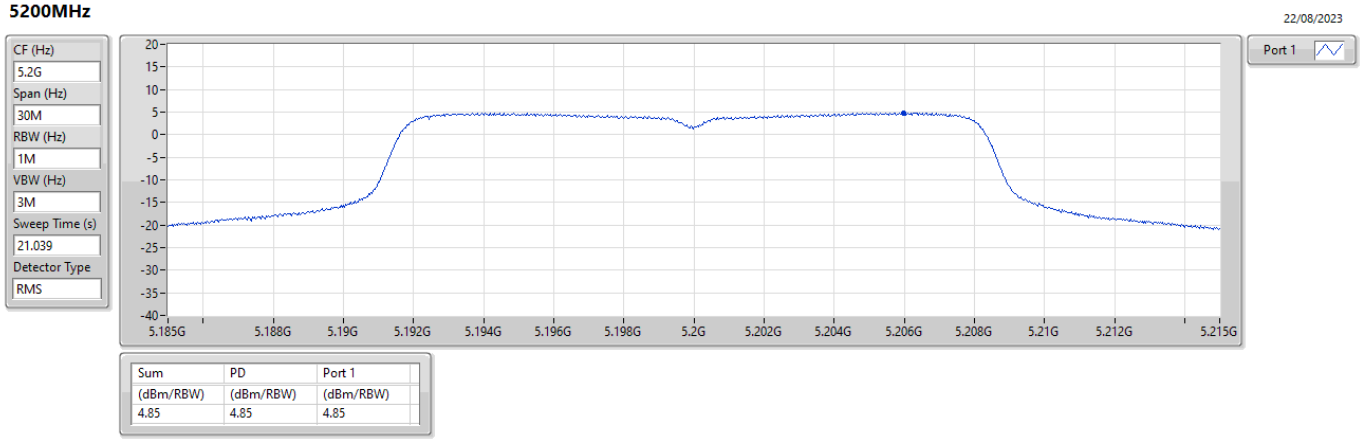
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.79	4.79	4.79

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

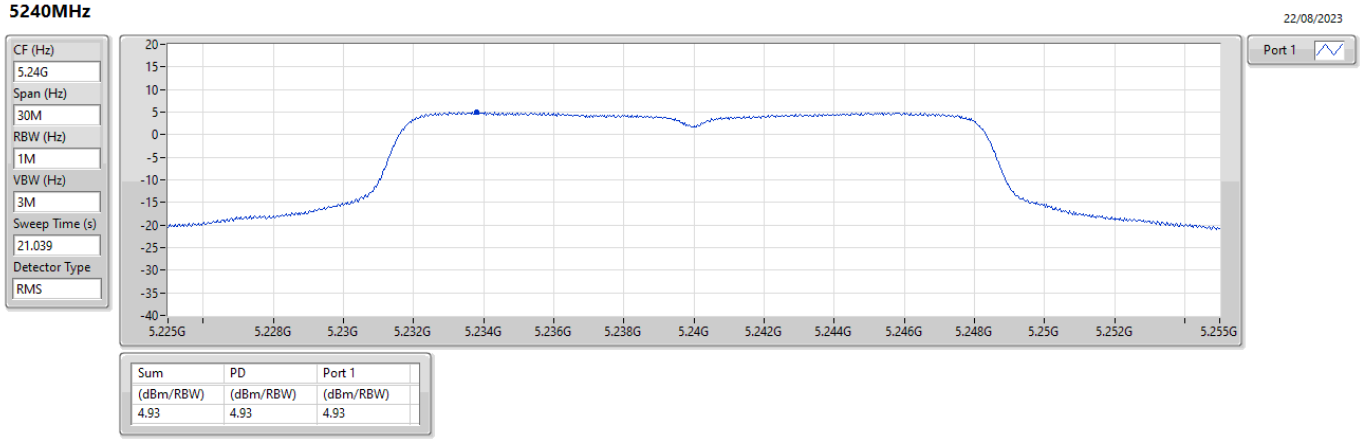
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.85	4.85	4.85

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

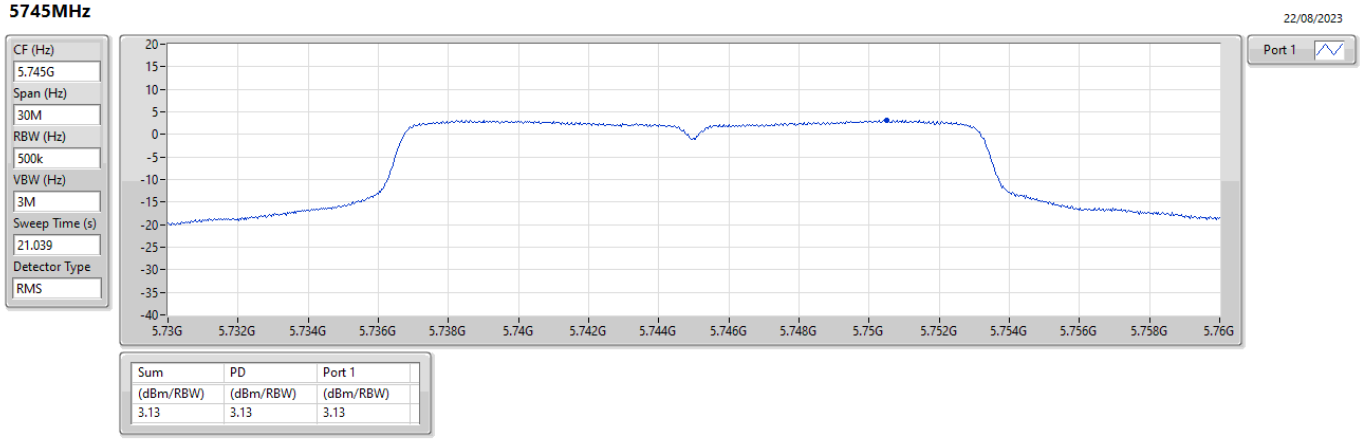
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.93	4.93	4.93

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

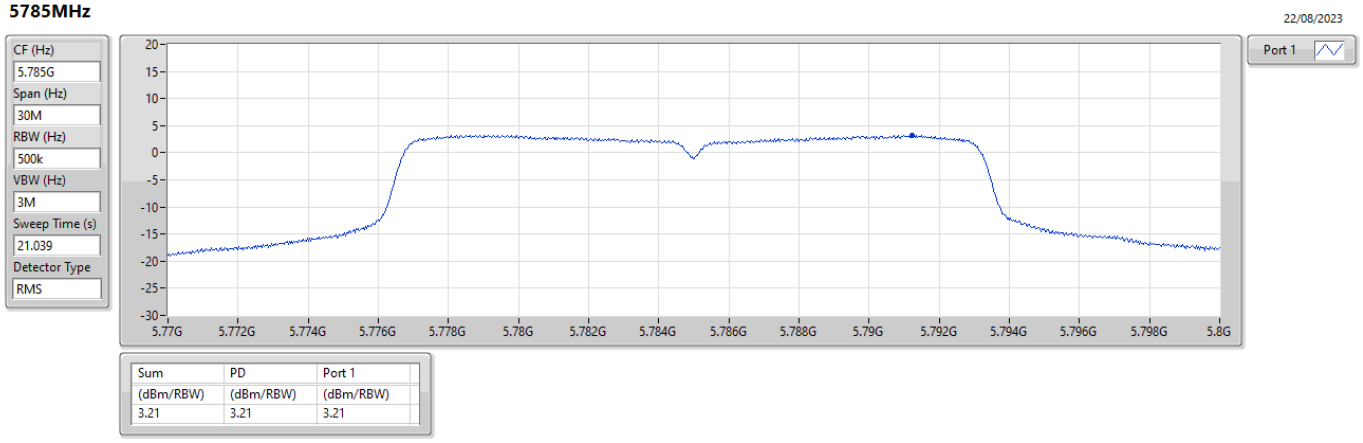
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.13	3.13	3.13

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

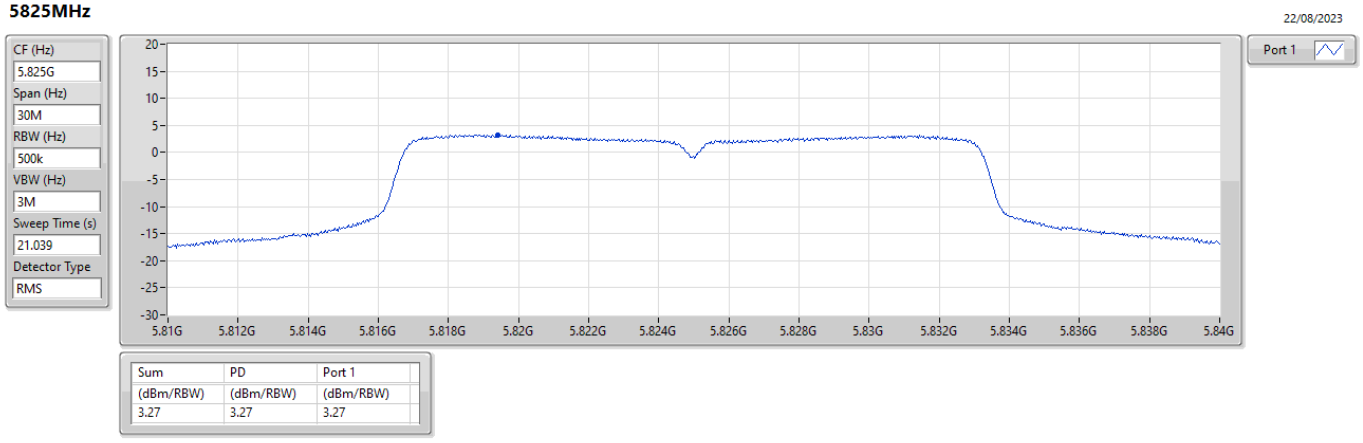
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.21	3.21	3.21

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

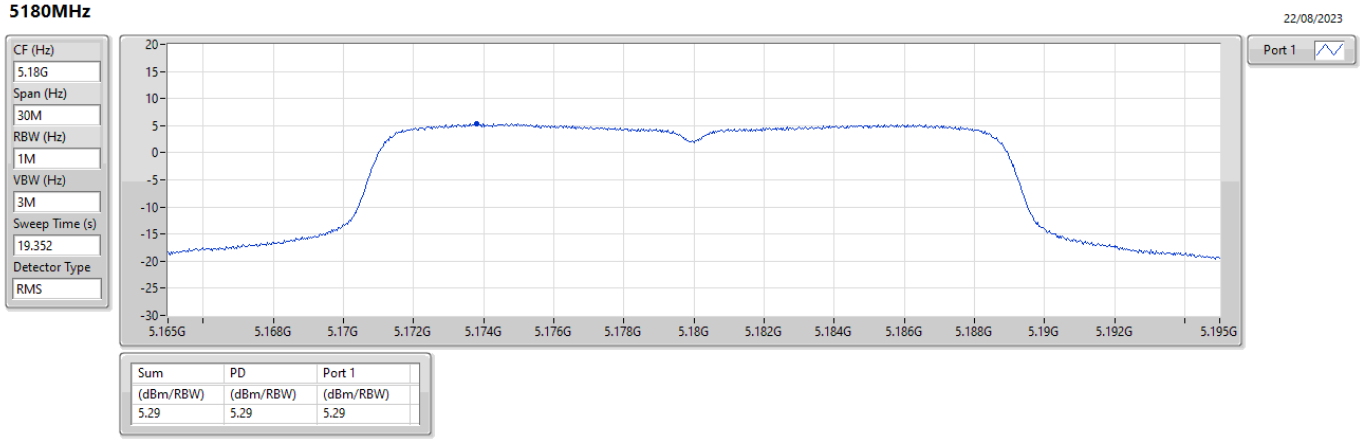
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.27	3.27	3.27

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

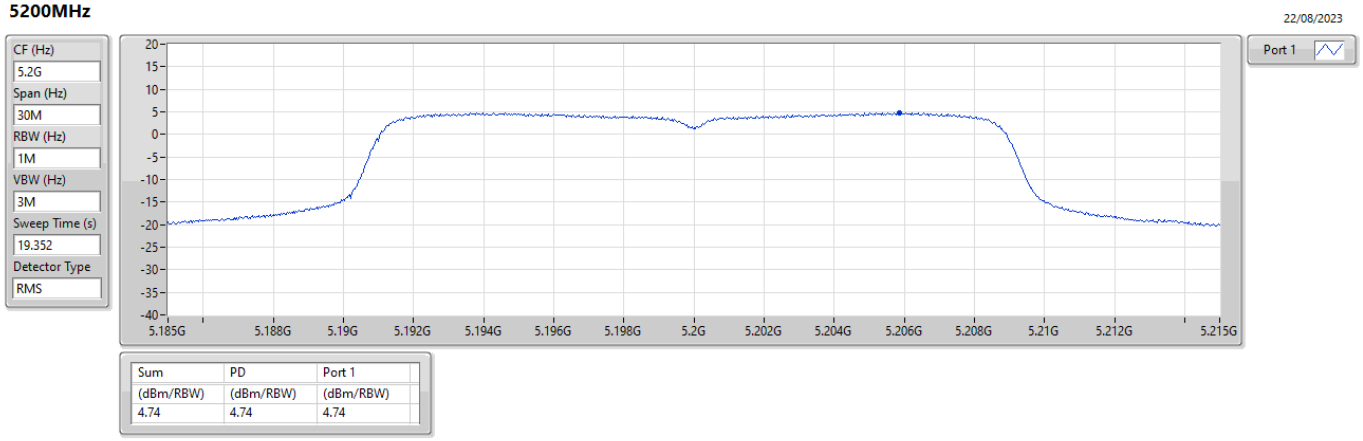
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.29	5.29	5.29

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

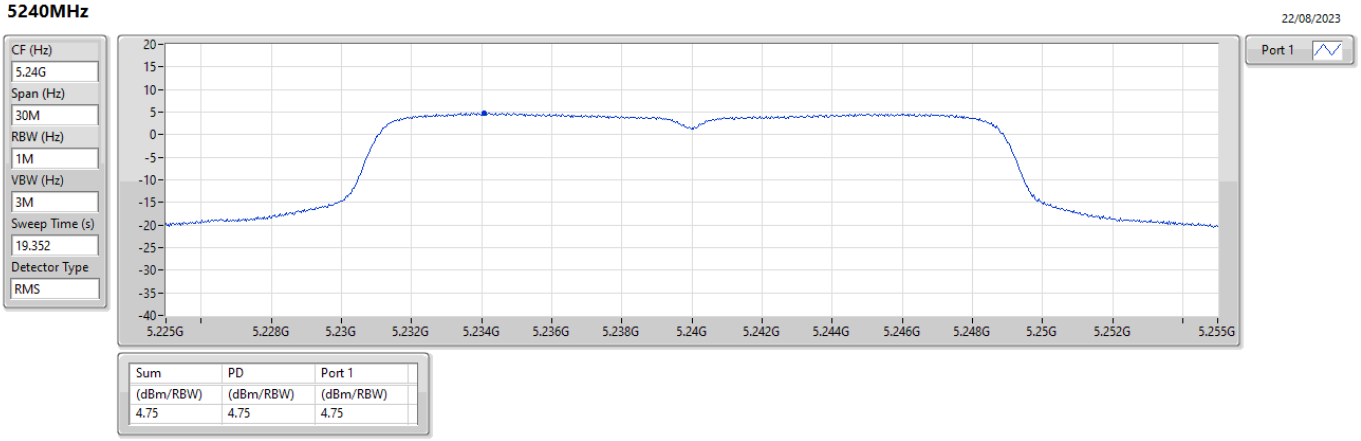
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.74	4.74	4.74

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

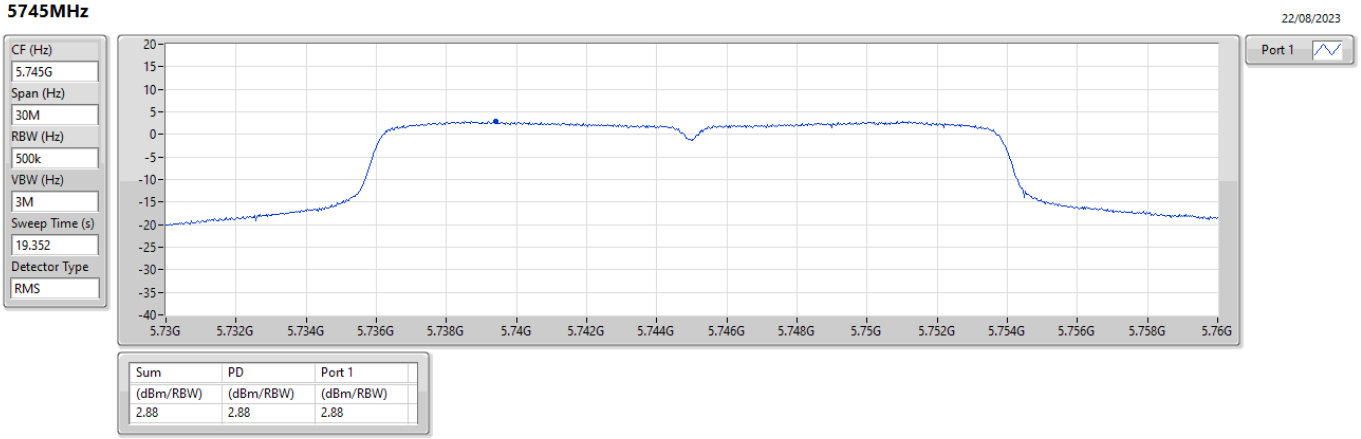
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.75	4.75	4.75

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

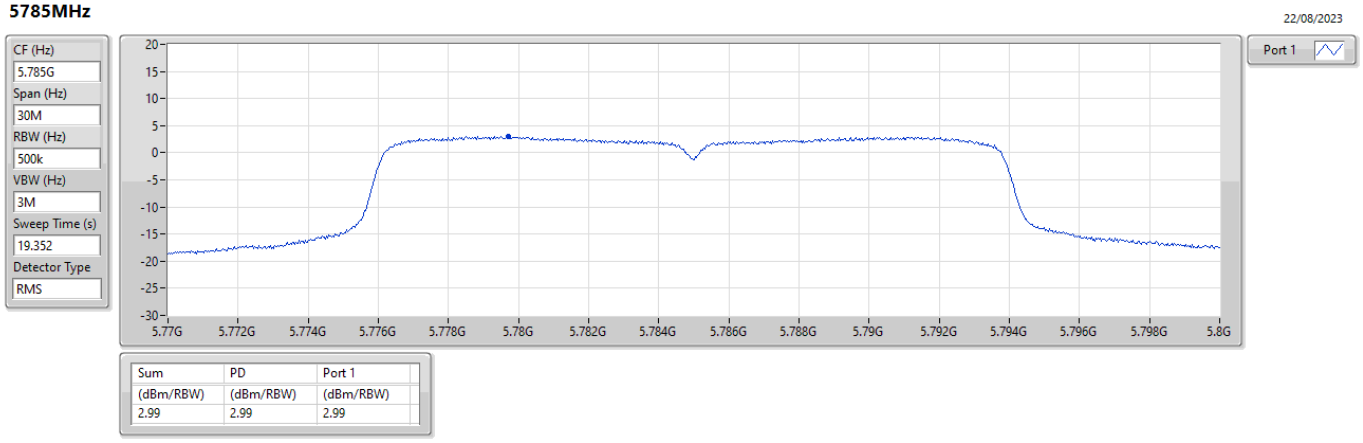
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.88	2.88	2.88

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

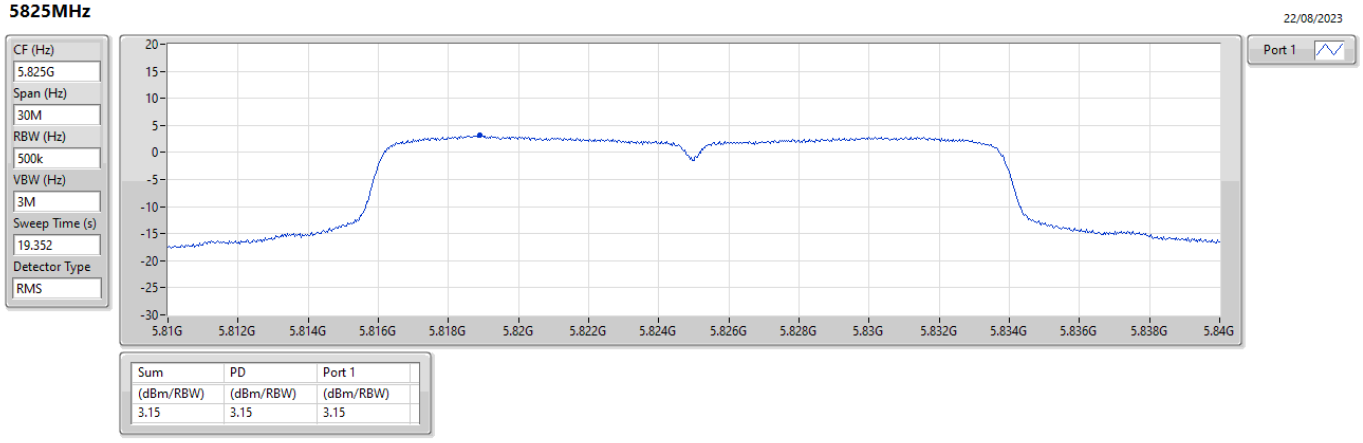
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.99	2.99	2.99

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

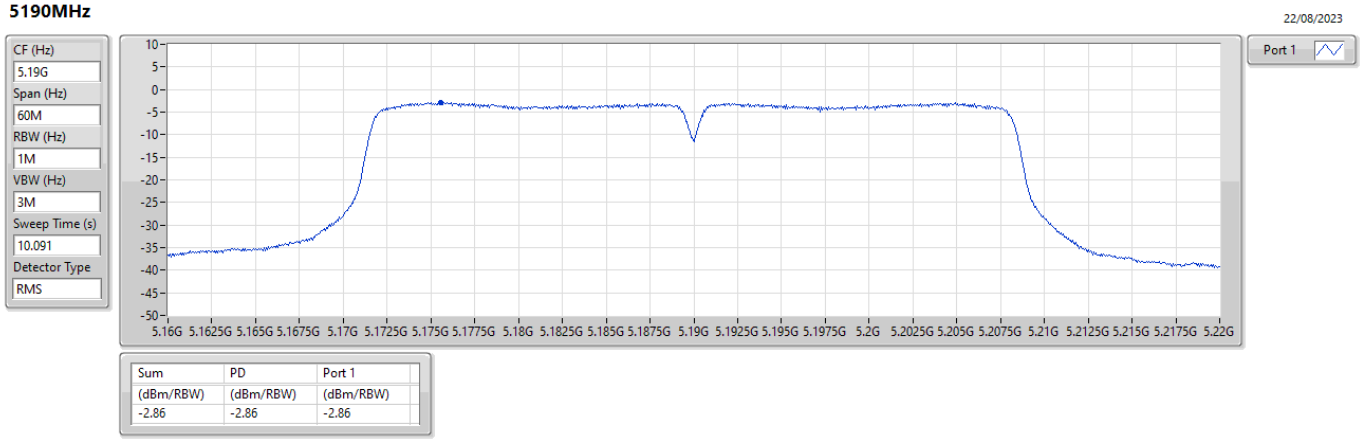
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.15	3.15	3.15

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

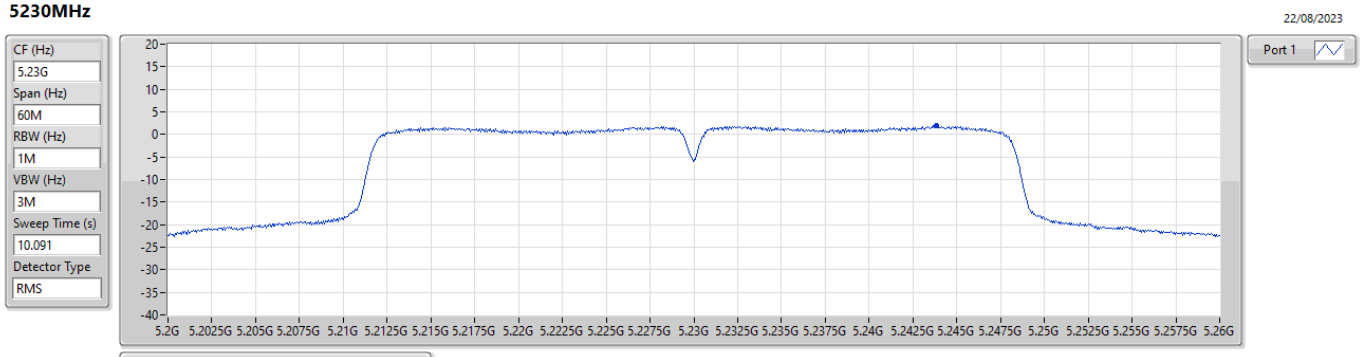
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.86	-2.86	-2.86

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

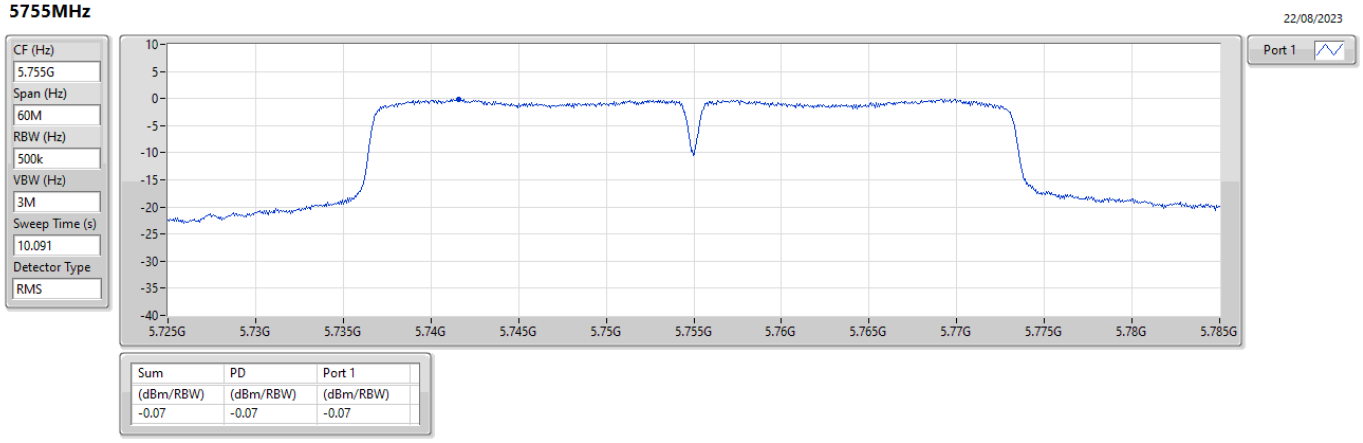
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.88	1.88	1.88

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

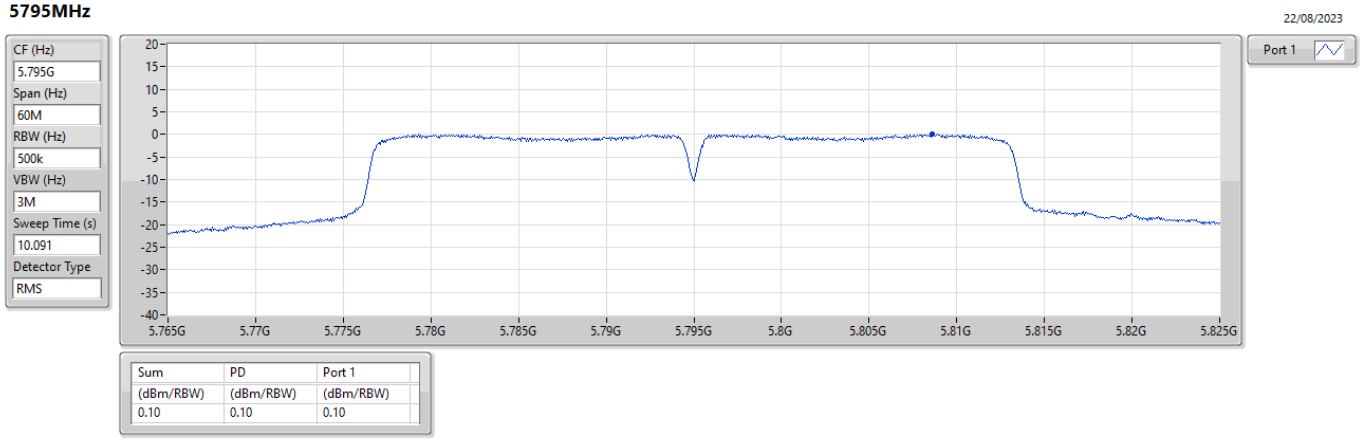
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.07	-0.07	-0.07

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

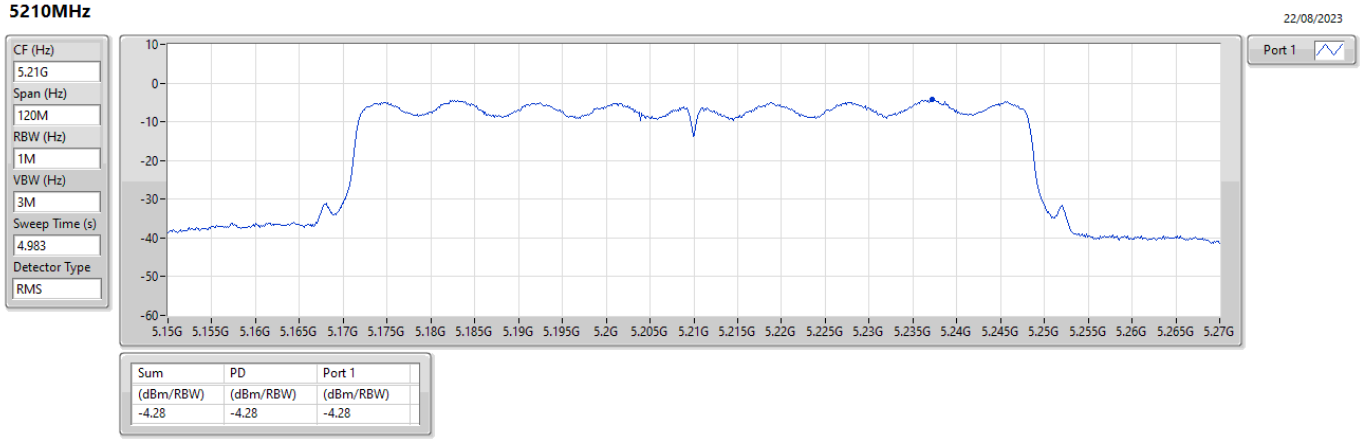
5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.10	0.10	0.10

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

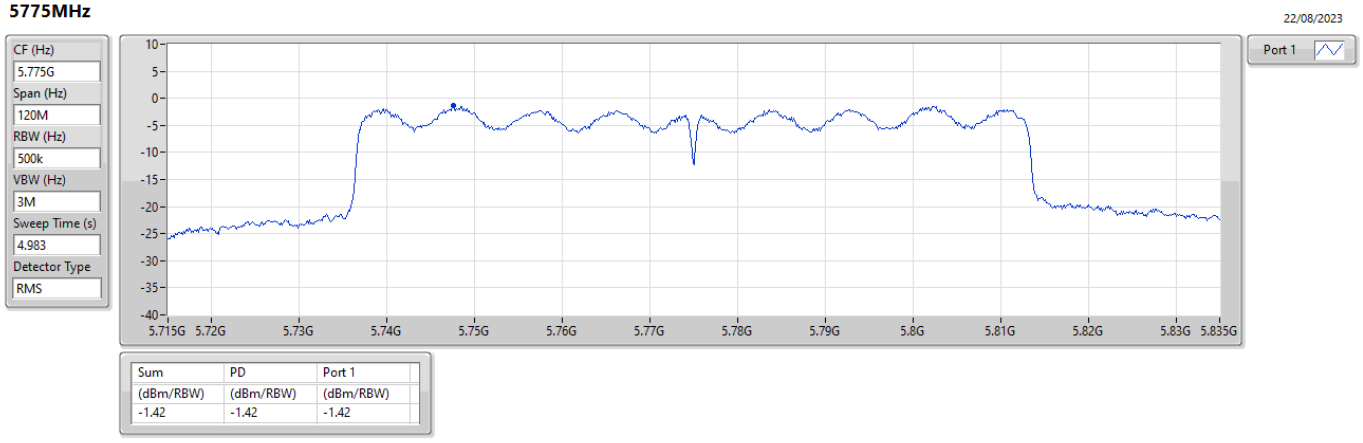
5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.28	-4.28	-4.28

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5775MHz

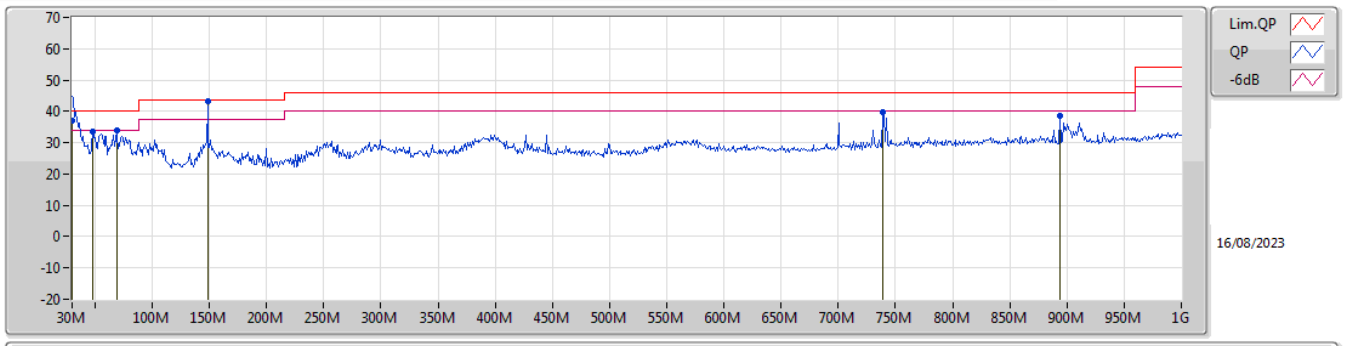


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.42	-1.42	-1.42

Summary

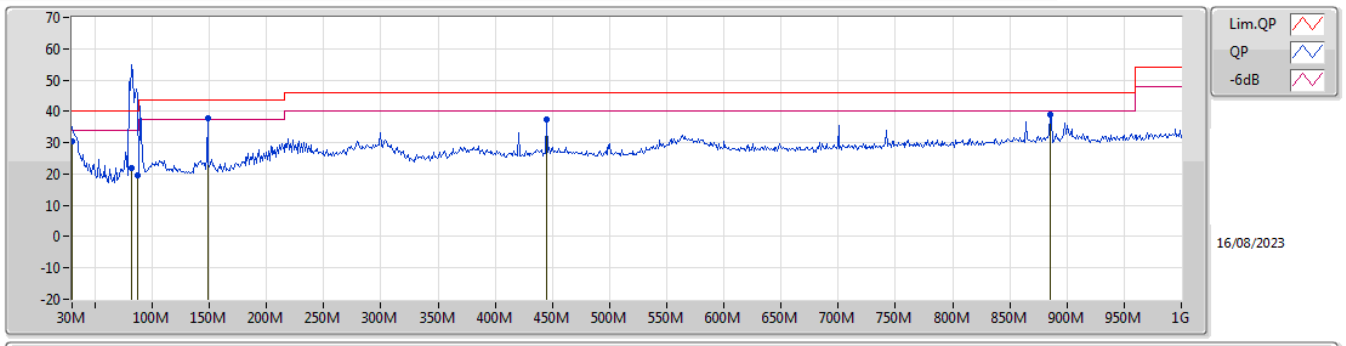
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	148.34M	43.10	43.50	-0.40	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	30M	36.92	40.00	-3.08	-19.74	3	Vertical	305	1.00	-	56.66	24.08	0.50	44.32
PK	48.43M	33.53	40.00	-6.47	-30.06	3	Vertical	111	1.25	-	63.59	13.88	0.63	44.57
PK	68.8M	33.94	40.00	-6.06	-32.44	3	Vertical	35	2.00	-	66.38	11.44	0.74	44.62
QP	148.34M	43.10	43.50	-0.40	-27.90	3	Vertical	236	1.25	"Worst"	71.00	15.62	1.05	44.57
PK	739.07M	39.82	46.00	-6.18	-16.83	3	Vertical	88	1.00	-	56.65	24.56	2.23	43.62
PK	894.27M	38.54	46.00	-7.46	-15.36	3	Vertical	196	3.00	-	53.90	25.61	2.47	43.44

Mode 3



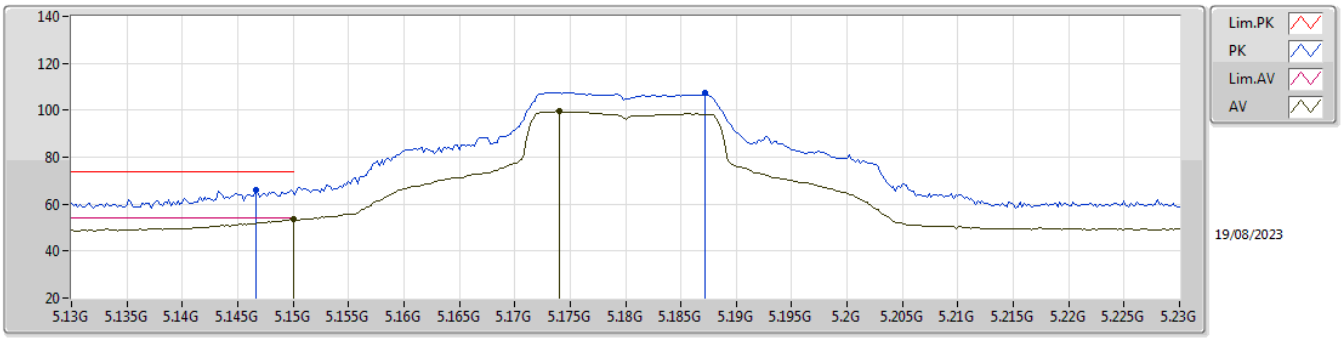
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	30M	30.56	40.00	-9.44	-19.74	3	Horizontal	236	1.25	-	50.30	24.08	0.50	44.32
QP	82.38M	21.89	40.00	-18.11	-31.27	3	Horizontal	181	1.50	-	53.16	12.53	0.79	44.59
QP	87.23M	19.69	40.00	-20.31	-30.41	3	Horizontal	2	1.50	-	50.10	13.38	0.81	44.60
QP	148.34M	37.87	43.50	-5.63	-27.90	3	Horizontal	228	2.00	"Worst"	65.77	15.62	1.05	44.57
PK	445.16M	37.43	46.00	-8.57	-20.48	3	Horizontal	60	1.00	-	57.91	21.77	1.79	44.04
PK	885.54M	38.79	46.00	-7.21	-15.17	3	Horizontal	122	1.25	-	53.96	25.83	2.46	43.46

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_1TX	Pass	PK	5.94G	68.00	68.20	-0.20	3	Vertical	113	2.46	-

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

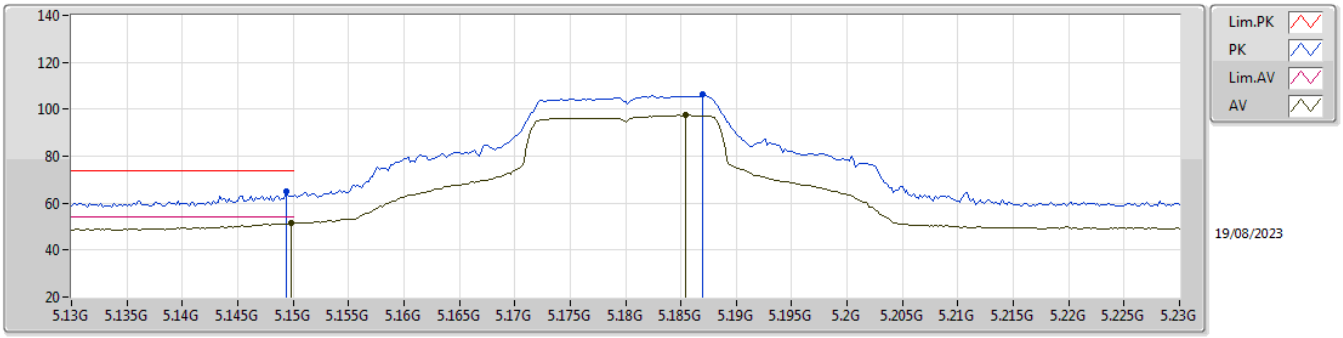


EUT Z_1TX
Setting 62
02-H-R-5-10

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	5.1466G	65.96	74.00	-8.04	57.28	3	Vertical	119	2.76	-	33.59	5.77	30.68
AV	5.15G	53.46	54.00	-0.54	44.76	3	Vertical	119	2.76	-	33.60	5.78	30.68
PK	5.1872G	107.67	Inf	-Inf	98.84	3	Vertical	119	2.76	-	33.75	5.79	30.71
AV	5.174G	99.55	Inf	-Inf	90.76	3	Vertical	119	2.76	-	33.70	5.79	30.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

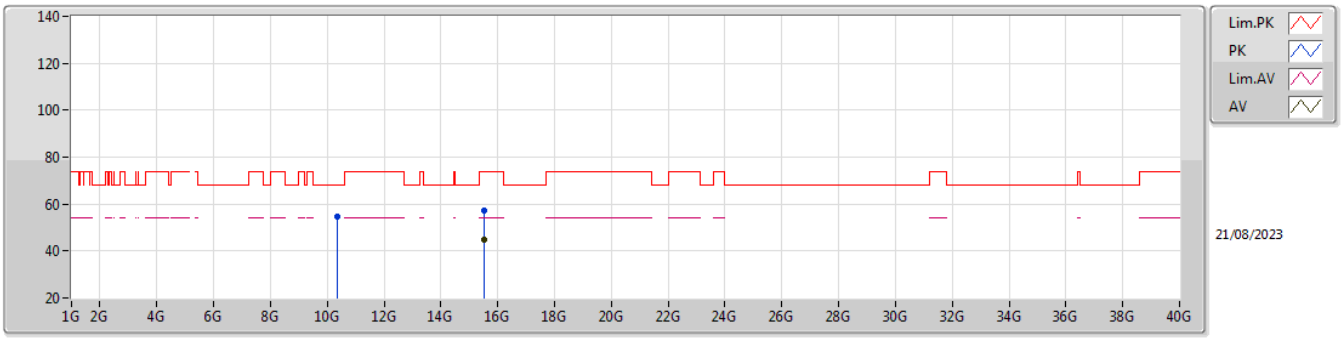


EUT Z_1TX
Setting 62
02-H-R-5-10

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	5.1494G	64.87	74.00	-9.13	56.18	3	Horizontal	269	1.04	-	33.60	5.77	30.68
AV	5.1498G	51.51	54.00	-2.49	42.82	3	Horizontal	269	1.04	-	33.60	5.77	30.68
PK	5.187G	106.59	Inf	-Inf	97.76	3	Horizontal	269	1.04	-	33.75	5.79	30.71
AV	5.1854G	97.43	Inf	-Inf	88.61	3	Horizontal	269	1.04	-	33.74	5.79	30.71

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

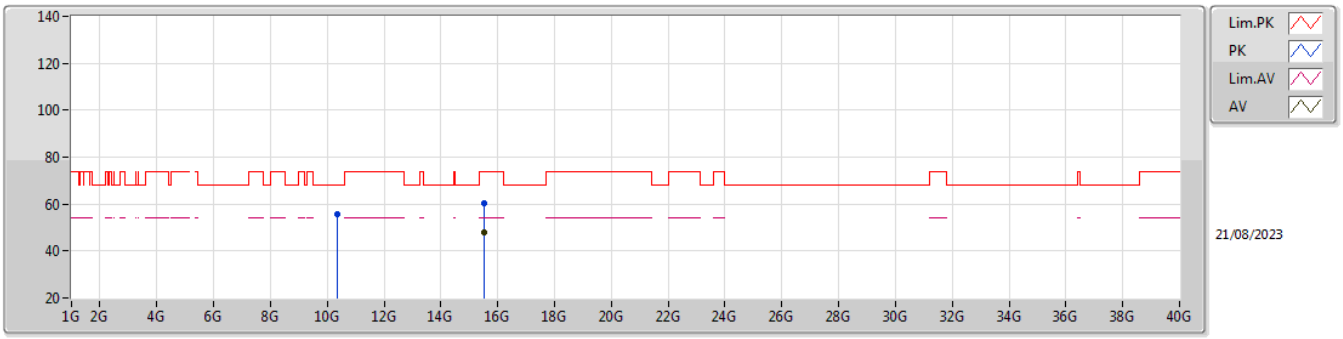


EUT Z_1TX
Setting 62
02-H-B-5

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	10.3632G	54.70	68.20	-13.50	39.58	3	Vertical	176	2.54	-	38.47	8.43	31.78
PK	15.53968G	56.99	74.00	-17.01	40.78	3	Vertical	214	1.11	-	37.84	10.32	31.95
AV	15.54152G	44.74	54.00	-9.26	28.54	3	Vertical	214	1.11	-	37.83	10.32	31.95

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

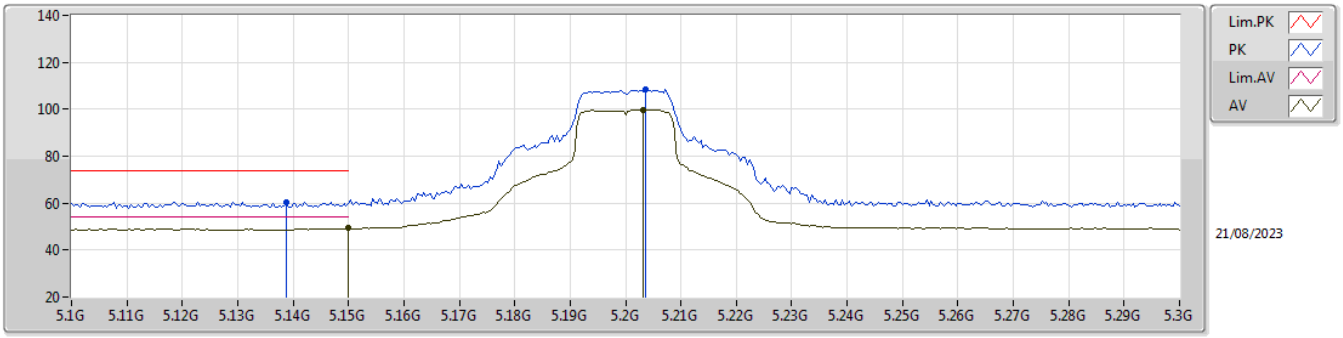


EUT Z_1TX
Setting 62
02-H-B-5

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	10.35824G	55.89	68.20	-12.31	40.76	3	Horizontal	114	1.03	-	38.48	8.43	31.78
PK	15.54424G	60.48	74.00	-13.52	44.29	3	Horizontal	310	1.80	-	37.82	10.32	31.95
AV	15.53784G	48.07	54.00	-5.93	31.85	3	Horizontal	310	1.80	-	37.85	10.32	31.95

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

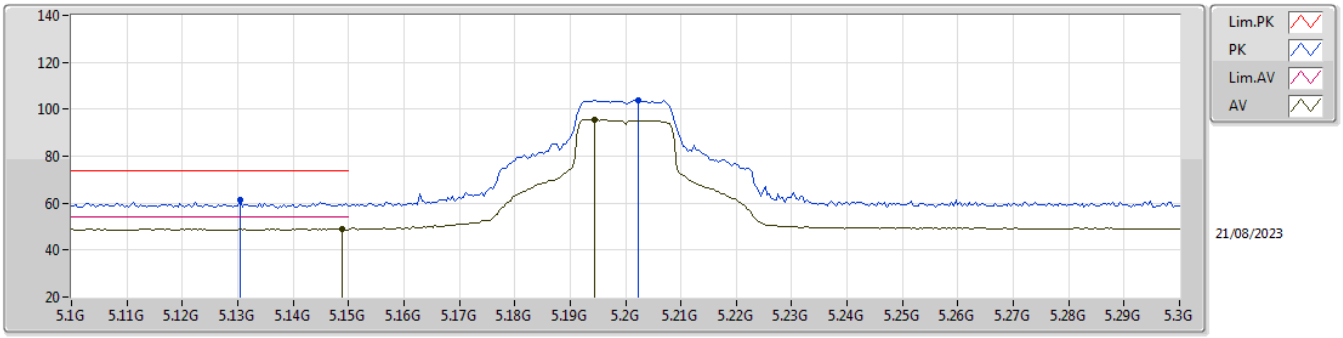


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.1388G	60.49	74.00	-13.51	51.81	3	Vertical	112	2.73	-	33.58	5.77	30.67
AV	5.15G	49.23	54.00	-4.77	40.53	3	Vertical	112	2.73	-	33.60	5.78	30.68
PK	5.2036G	108.24	Inf	-Inf	99.36	3	Vertical	112	2.73	-	33.80	5.80	30.72
AV	5.2032G	99.83	Inf	-Inf	90.95	3	Vertical	112	2.73	-	33.80	5.80	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

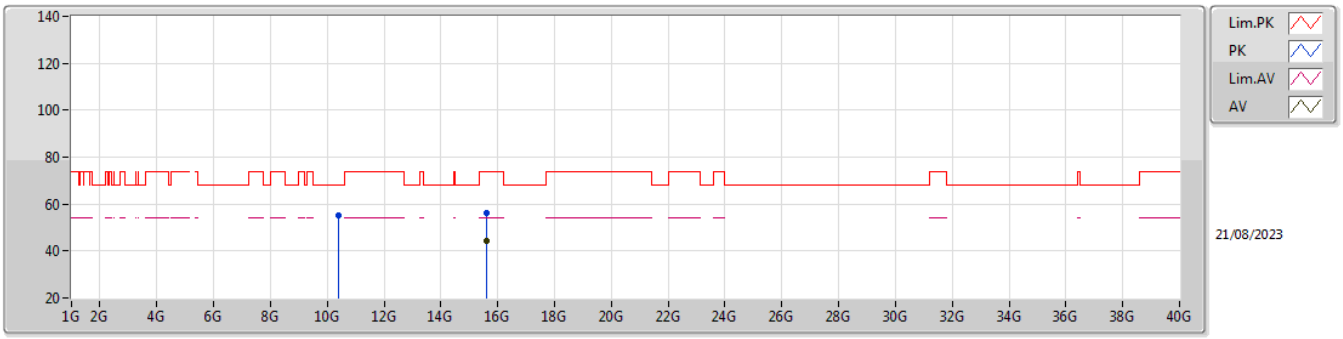


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.1304G	61.21	74.00	-12.79	52.54	3	Horizontal	97	1.02	-	33.56	5.77	30.66
AV	5.1488G	49.00	54.00	-5.00	40.31	3	Horizontal	97	1.02	-	33.60	5.77	30.68
PK	5.2024G	103.74	Inf	-Inf	94.86	3	Horizontal	97	1.02	-	33.80	5.80	30.72
AV	5.1944G	95.60	Inf	-Inf	86.74	3	Horizontal	97	1.02	-	33.78	5.80	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

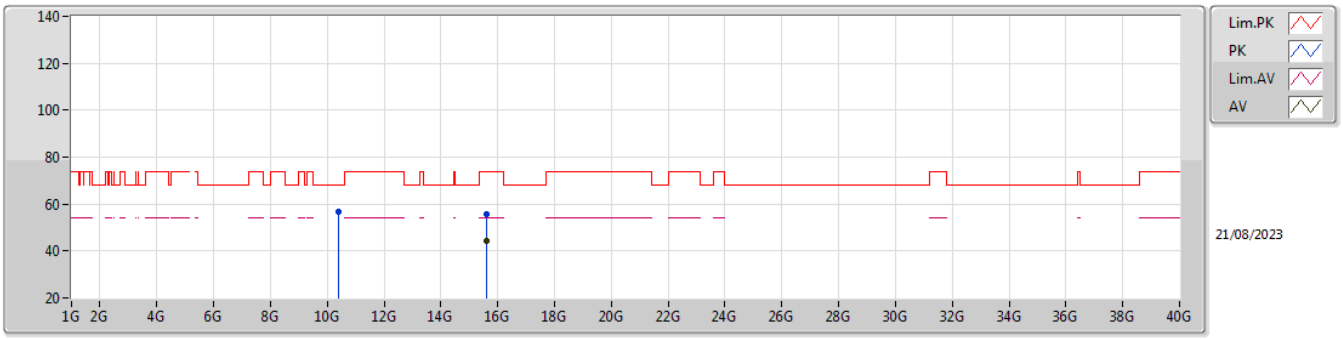


EUT Z_1TX
Setting 63
02-H-B-5

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	10.40112G	55.01	68.20	-13.19	39.96	3	Vertical	62	1.80	-	38.40	8.44	31.79
PK	15.60264G	55.98	74.00	-18.02	39.90	3	Vertical	252	2.00	-	37.70	10.34	31.96
AV	15.59664G	44.23	54.00	-9.77	28.14	3	Vertical	252	2.00	-	37.71	10.34	31.96

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

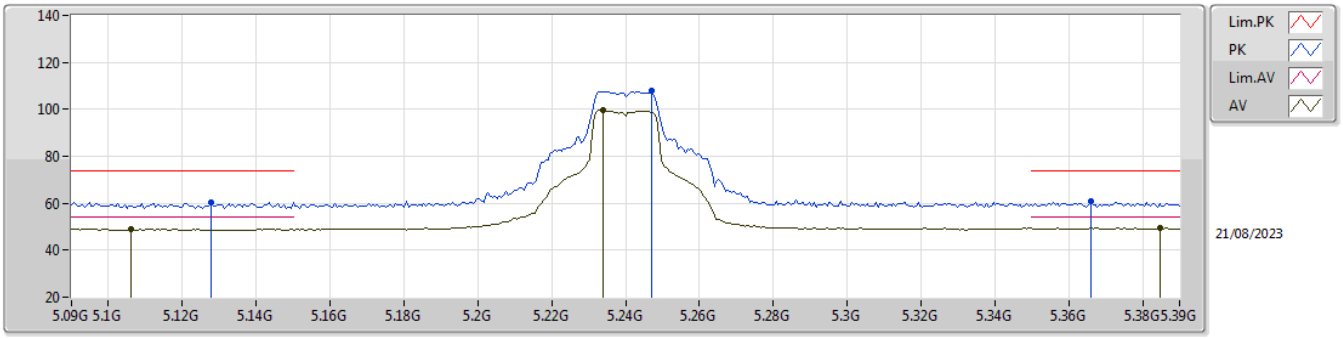


EUT Z_1TX
Setting 63
02-H-B-5

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	10.40192G	56.51	68.20	-11.69	41.46	3	Horizontal	257	1.10	-	38.40	8.44	31.79
PK	15.60488G	55.51	74.00	-18.49	39.43	3	Horizontal	109	1.82	-	37.70	10.34	31.96
AV	15.60752G	44.12	54.00	-9.88	28.04	3	Horizontal	109	1.82	-	37.70	10.34	31.96

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

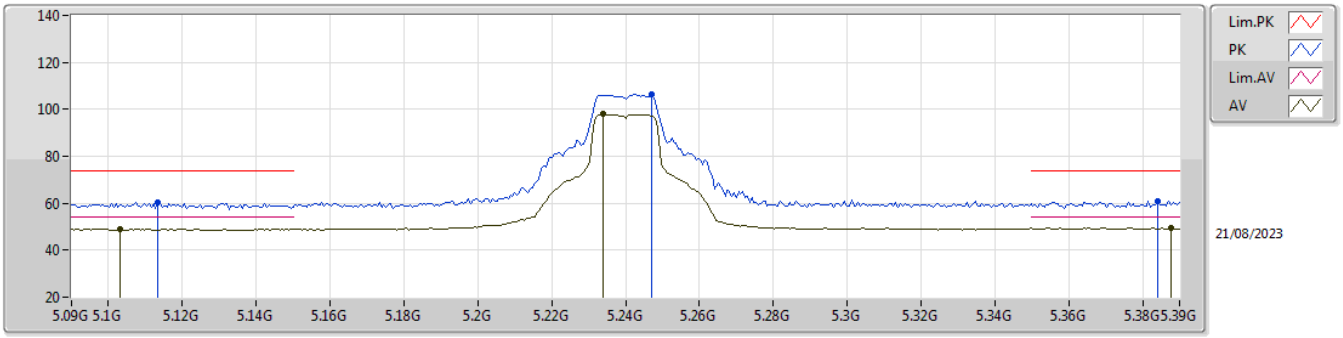


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.1278G	60.48	74.00	-13.52	51.82	3	Vertical	54	2.33	-	33.56	5.76	30.66
AV	5.1062G	49.04	54.00	-4.96	40.42	3	Vertical	54	2.33	-	33.51	5.75	30.64
PK	5.2472G	107.89	Inf	-Inf	99.03	3	Vertical	54	2.33	-	33.80	5.82	30.76
AV	5.234G	99.70	Inf	-Inf	90.83	3	Vertical	54	2.33	-	33.80	5.82	30.75
PK	5.366G	60.73	74.00	-13.27	51.70	3	Vertical	54	2.33	-	34.00	5.88	30.85
AV	5.3846G	49.39	54.00	-4.61	40.37	3	Vertical	54	2.33	-	34.00	5.89	30.87

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

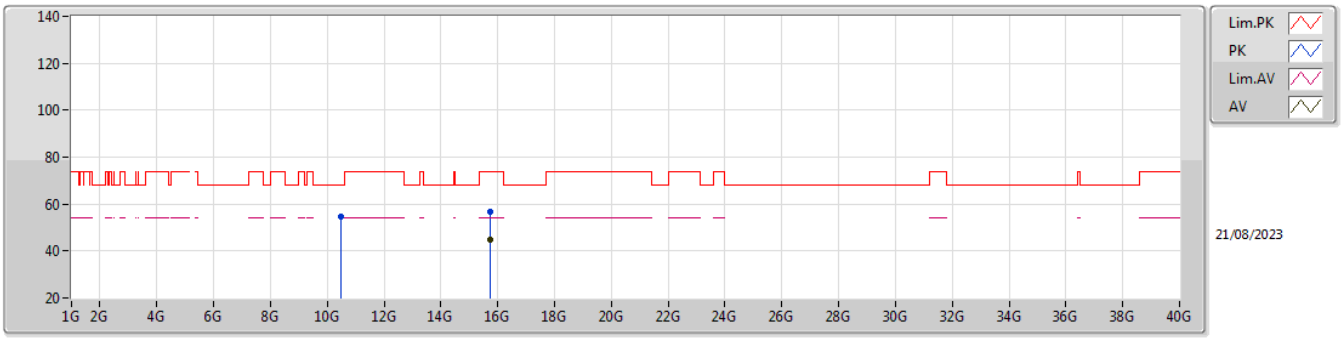


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.1134G	60.17	74.00	-13.83	51.53	3	Horizontal	268	1.13	-	33.53	5.76	30.65
AV	5.1032G	49.08	54.00	-4.92	40.46	3	Horizontal	268	1.13	-	33.51	5.75	30.64
PK	5.2472G	106.37	Inf	-Inf	97.51	3	Horizontal	268	1.13	-	33.80	5.82	30.76
AV	5.234G	98.09	Inf	-Inf	89.22	3	Horizontal	268	1.13	-	33.80	5.82	30.75
PK	5.384G	60.79	74.00	-13.21	51.77	3	Horizontal	268	1.13	-	34.00	5.89	30.87
AV	5.3876G	49.40	54.00	-4.60	40.38	3	Horizontal	268	1.13	-	34.00	5.89	30.87

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

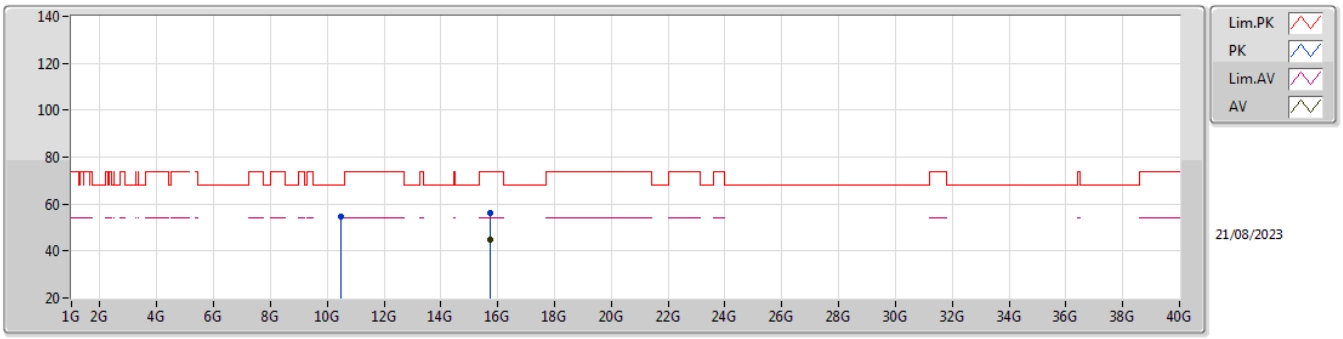


EUT Z_1TX
Setting 63
02-H-B-5

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	10.499G	54.56	68.20	-13.64	39.50	3	Vertical	265	2.96	-	38.40	8.47	31.81
PK	15.7426G	56.66	74.00	-17.34	40.60	3	Vertical	183	1.21	-	37.63	10.40	31.97
AV	15.7438G	44.61	54.00	-9.39	28.56	3	Vertical	183	1.21	-	37.62	10.40	31.97

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

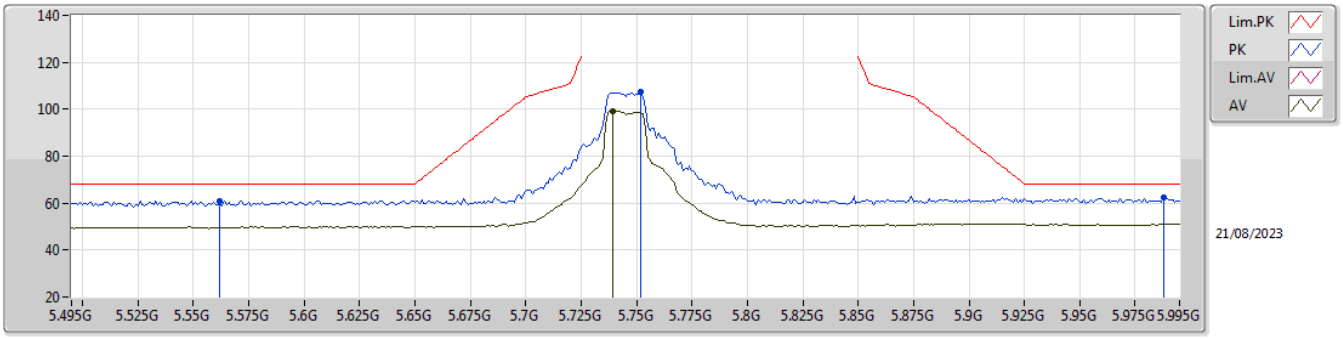


EUT Z_1TX
Setting 63
02-H-B-5

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	10.491G	54.78	68.20	-13.42	39.72	3	Horizontal	80	1.56	-	38.40	8.47	31.81
PK	15.7365G	56.28	74.00	-17.72	40.21	3	Horizontal	350	2.64	-	37.65	10.39	31.97
AV	15.7425G	44.70	54.00	-9.30	28.64	3	Horizontal	350	2.64	-	37.63	10.40	31.97

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

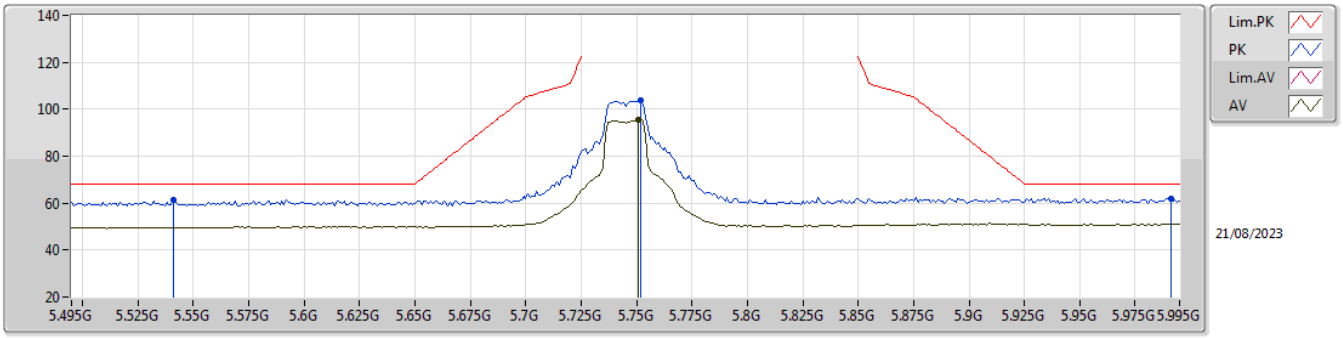


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.562G	61.12	68.20	-7.08	51.97	3	Vertical	117	2.80	-	34.08	6.06	30.99
PK	5.752G	107.41	Inf	-Inf	98.39	3	Vertical	117	2.80	-	34.00	6.10	31.08
AV	5.739G	99.25	Inf	-Inf	90.22	3	Vertical	117	2.80	-	34.00	6.10	31.07
PK	5.988G	62.20	68.20	-6.00	52.79	3	Vertical	117	2.80	-	34.30	6.29	31.18

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

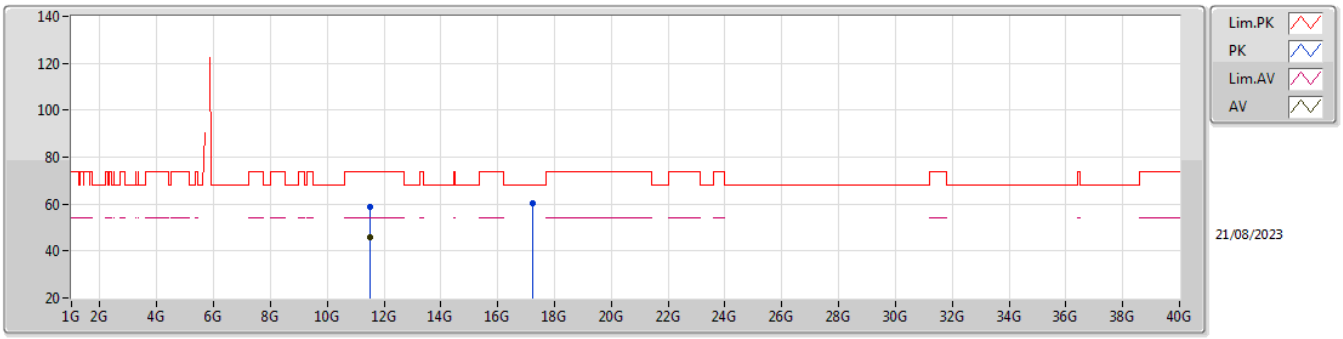


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.541G	61.24	68.20	-6.96	52.08	3	Horizontal	91	2.76	-	34.10	6.04	30.98
PK	5.752G	103.91	Inf	-Inf	94.89	3	Horizontal	91	2.76	-	34.00	6.10	31.08
AV	5.751G	95.36	Inf	-Inf	86.34	3	Horizontal	91	2.76	-	34.00	6.10	31.08
PK	5.991G	62.15	68.20	-6.05	52.75	3	Horizontal	91	2.76	-	34.30	6.29	31.19

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

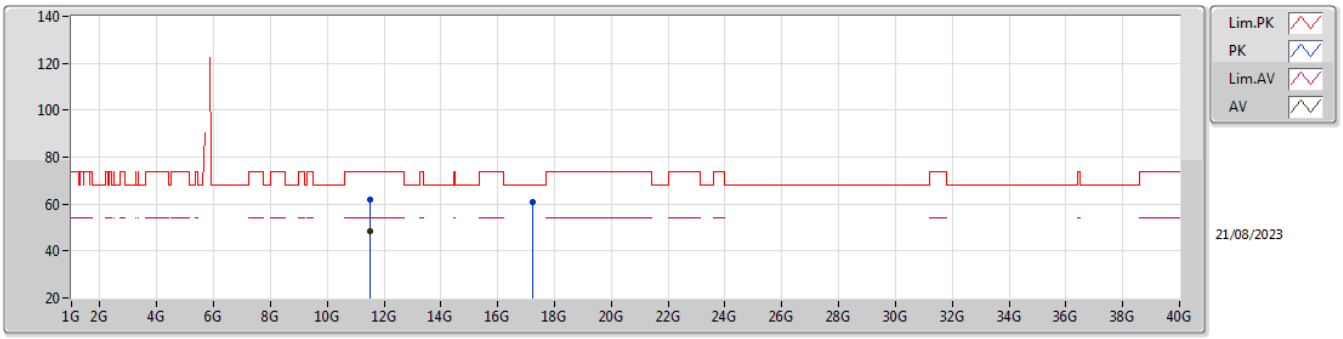


EUT Z_1TX
Setting 63
02-H-B-5

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	11.51205G	58.83	74.00	-15.17	43.19	3	Vertical	221	2.73	-	38.95	8.83	32.14
AV	11.50981G	45.61	54.00	-8.39	29.98	3	Vertical	221	2.73	-	38.94	8.83	32.14
PK	17.22396G	60.50	68.20	-7.70	39.90	3	Vertical	163	2.31	-	41.95	10.93	32.28

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

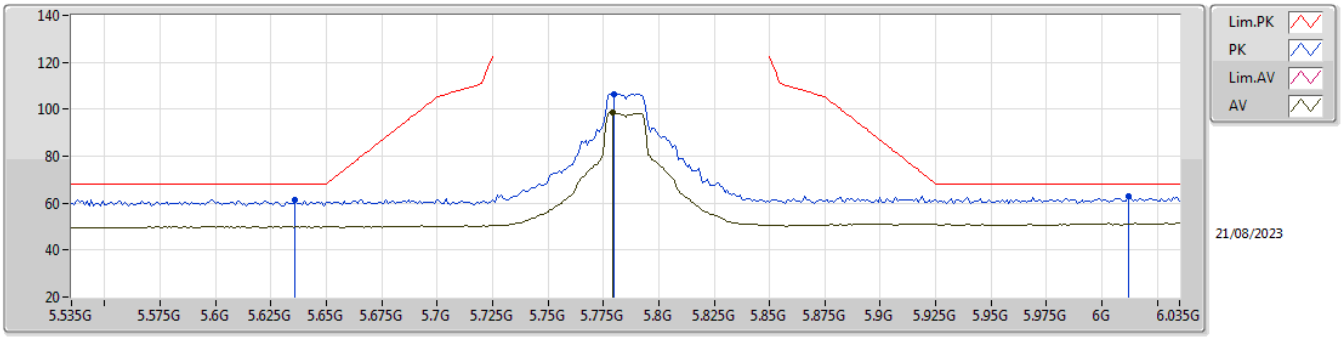


EUT Z_1TX
Setting 63
02-H-B-5

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	11.5122G	61.70	74.00	-12.30	46.06	3	Horizontal	263	1.12	-	38.95	8.83	32.14
AV	11.5102G	48.59	54.00	-5.41	32.96	3	Horizontal	263	1.12	-	38.94	8.83	32.14
PK	17.22452G	60.63	68.20	-7.57	40.03	3	Horizontal	69	2.07	-	41.95	10.93	32.28

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

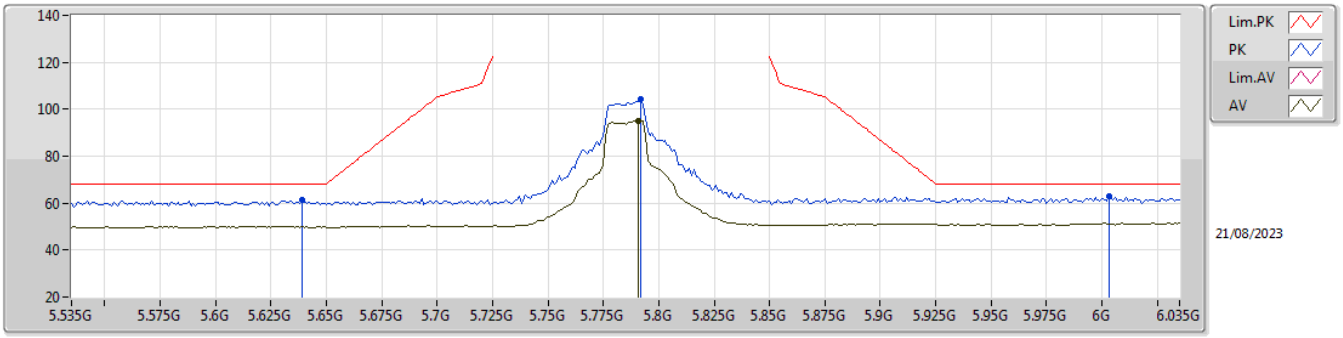


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.636G	61.56	68.20	-6.64	52.55	3	Vertical	110	2.53	-	33.93	6.10	31.02
PK	5.78G	106.63	Inf	-Inf	97.62	3	Vertical	110	2.53	-	34.00	6.10	31.09
AV	5.779G	98.63	Inf	-Inf	89.62	3	Vertical	110	2.53	-	34.00	6.10	31.09
PK	6.012G	62.68	68.20	-5.52	53.22	3	Vertical	110	2.53	-	34.35	6.30	31.19

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

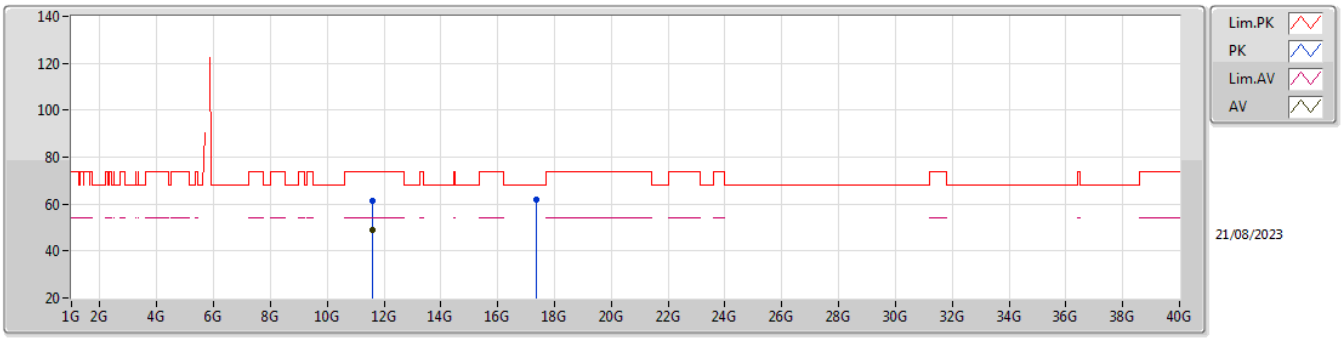


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.639G	61.23	68.20	-6.97	52.23	3	Horizontal	92	2.71	-	33.92	6.10	31.02
PK	5.792G	104.23	Inf	-Inf	95.22	3	Horizontal	92	2.71	-	34.00	6.10	31.09
AV	5.791G	95.19	Inf	-Inf	86.18	3	Horizontal	92	2.71	-	34.00	6.10	31.09
PK	6.003G	62.74	68.20	-5.46	53.32	3	Horizontal	92	2.71	-	34.31	6.30	31.19

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

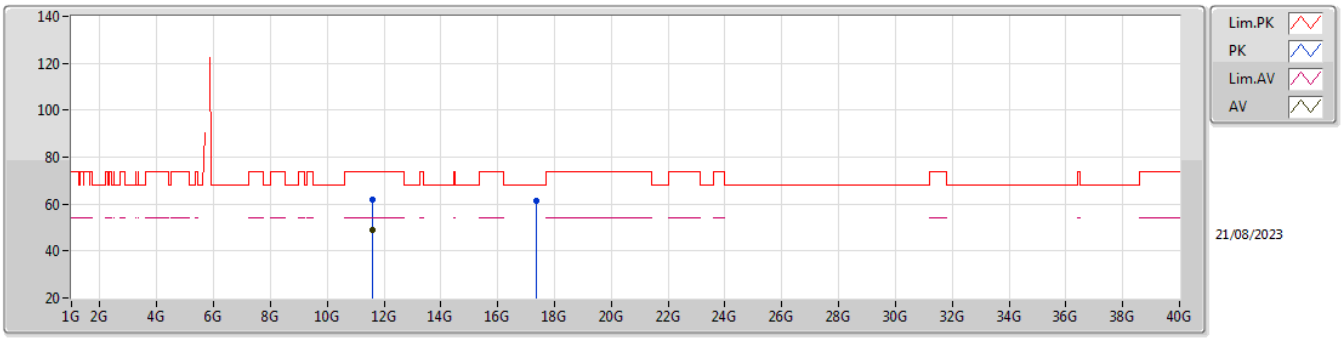


EUT Z_1TX
Setting 63
02-H-B-5

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	11.59228G	61.56	74.00	-12.44	45.43	3	Vertical	245	1.11	-	39.27	8.86	32.00
AV	11.5898G	49.06	54.00	-4.94	32.94	3	Vertical	245	1.11	-	39.26	8.86	32.00
PK	17.3394G	61.77	68.20	-6.43	40.47	3	Vertical	309	2.52	-	42.69	10.97	32.36

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

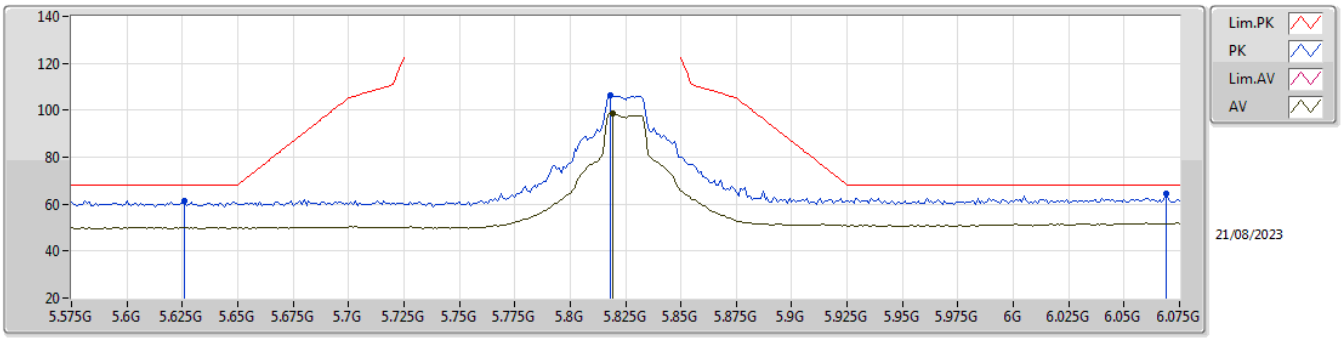


EUT Z_1TX
Setting 63
02-H-B-5

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	11.59221G	62.12	74.00	-11.88	45.99	3	Horizontal	254	1.25	-	39.27	8.86	32.00
AV	11.59021G	49.22	54.00	-4.78	33.10	3	Horizontal	254	1.25	-	39.26	8.86	32.00
PK	17.36492G	61.52	68.20	-6.68	40.03	3	Horizontal	242	1.79	-	42.89	10.98	32.38

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

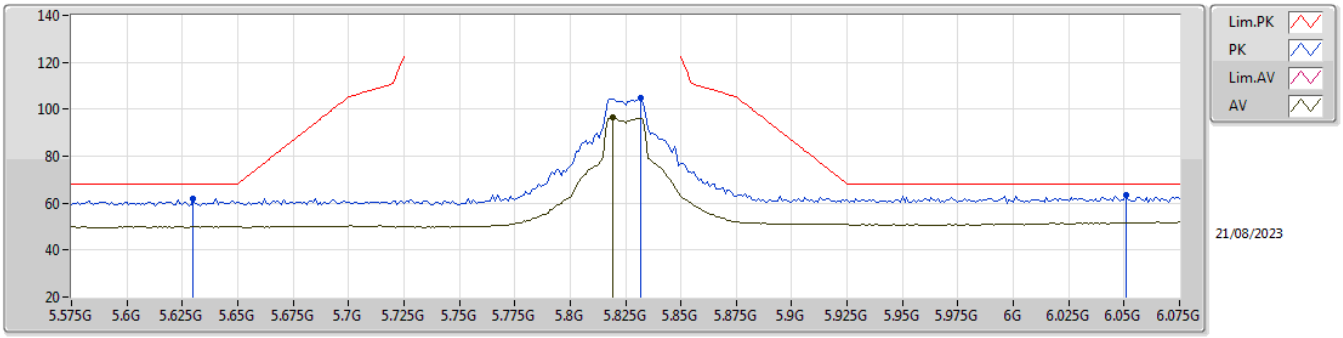


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.626G	61.39	68.20	-6.81	52.36	3	Vertical	157	1.01	-	33.95	6.10	31.02
PK	5.818G	106.52	Inf	-Inf	97.52	3	Vertical	157	1.01	-	34.00	6.11	31.11
AV	5.819G	98.41	Inf	-Inf	89.41	3	Vertical	157	1.01	-	34.00	6.11	31.11
PK	6.069G	64.71	68.20	-3.49	55.12	3	Vertical	157	1.01	-	34.50	6.30	31.21

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

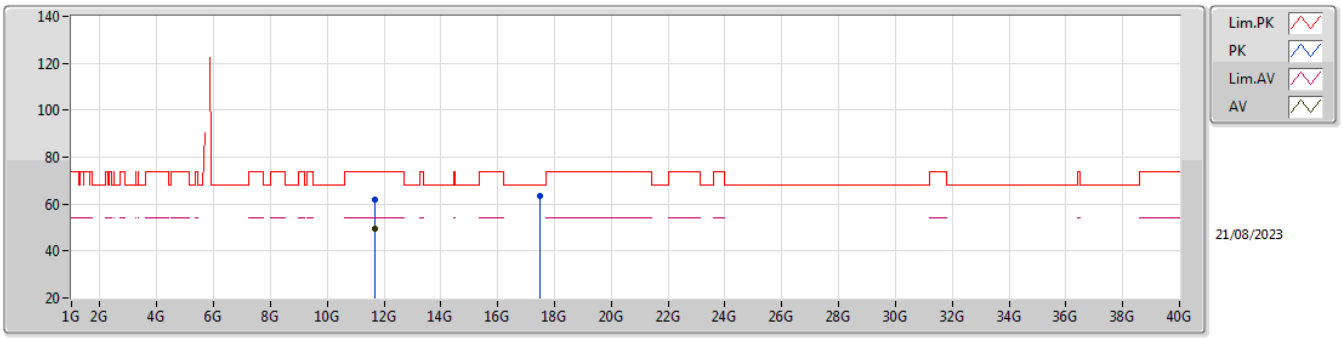


EUT Z_1TX
Setting 63
02-H-R-5-10

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	5.63G	62.00	68.20	-6.20	52.98	3	Horizontal	97	1.06	-	33.94	6.10	31.02
PK	5.832G	104.85	Inf	-Inf	95.84	3	Horizontal	97	1.06	-	34.00	6.12	31.11
AV	5.819G	96.41	Inf	-Inf	87.41	3	Horizontal	97	1.06	-	34.00	6.11	31.11
PK	6.051G	63.43	68.20	-4.77	53.84	3	Horizontal	97	1.06	-	34.50	6.30	31.21

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

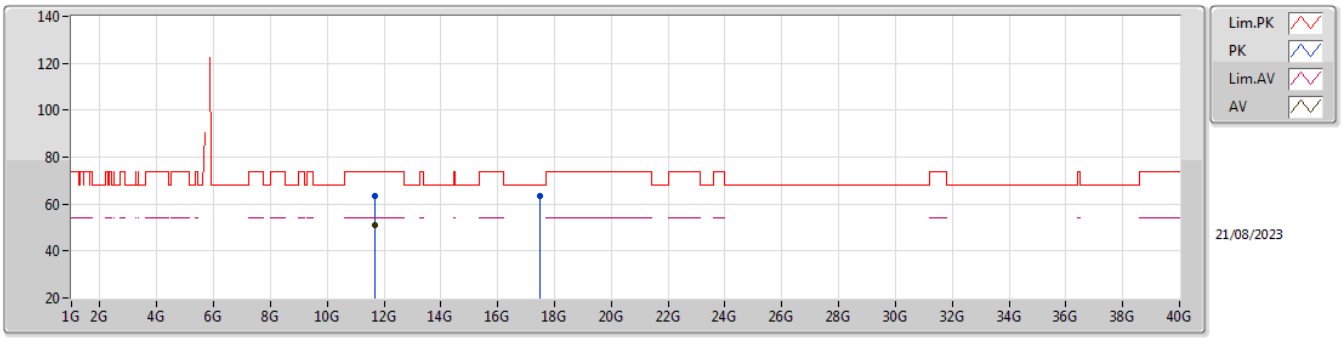


EUT Z_1TX
Setting 63
02-H-B-5

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	11.67206G	62.13	74.00	-11.87	45.76	3	Vertical	42	2.73	-	39.34	8.89	31.86
AV	11.66996G	49.56	54.00	-4.44	33.20	3	Vertical	42	2.73	-	39.34	8.88	31.86
PK	17.49148G	63.21	68.20	-4.99	40.82	3	Vertical	50	2.78	-	43.83	11.02	32.46

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

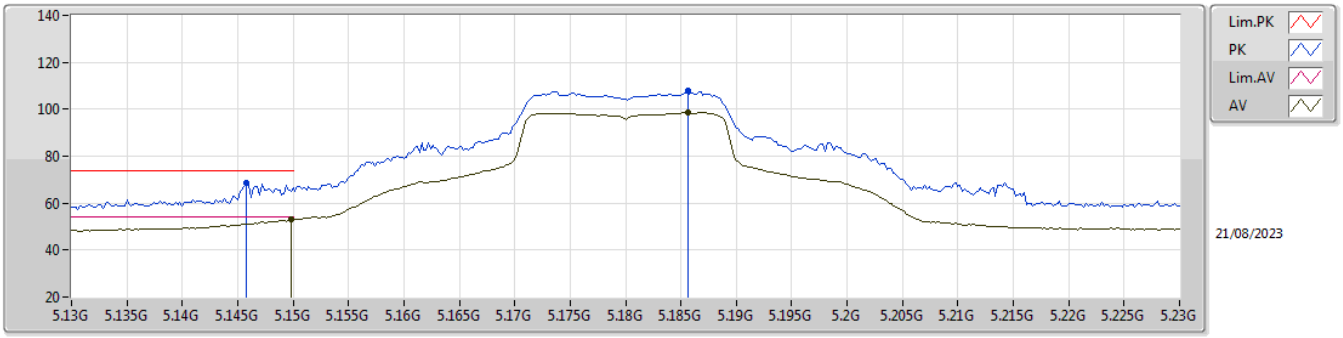


EUT Z_1TX
Setting 63
02-H-B-5

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	11.672G	63.59	74.00	-10.41	47.22	3	Horizontal	114	1.09	-	39.34	8.89	31.86
AV	11.67014G	51.19	54.00	-2.81	34.83	3	Horizontal	114	1.09	-	39.34	8.88	31.86
PK	17.48064G	63.55	68.20	-4.65	41.24	3	Horizontal	46	1.97	-	43.75	11.02	32.46

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

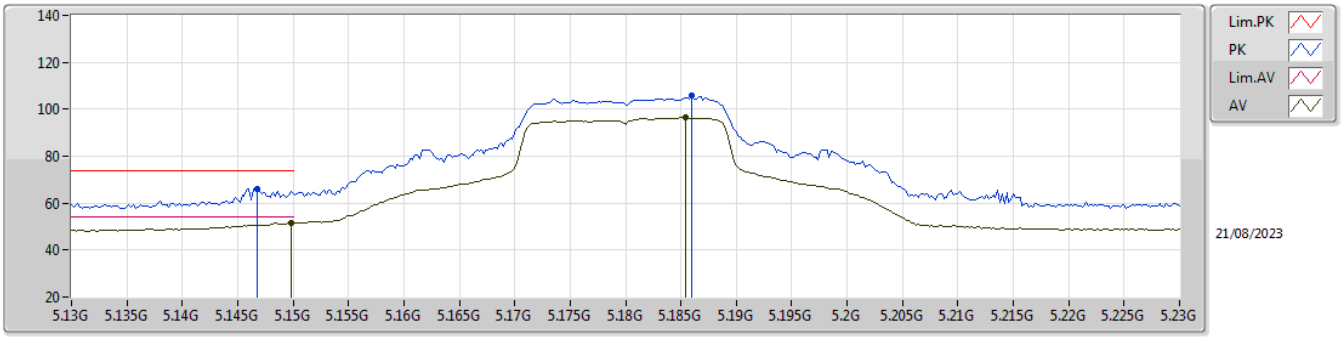


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.1458G	68.69	74.00	-5.31	60.01	3	Vertical	99	2.74	-	33.59	5.77	30.68
AV	5.1498G	52.94	54.00	-1.06	44.25	3	Vertical	99	2.74	-	33.60	5.77	30.68
PK	5.1856G	107.94	Inf	-Inf	99.12	3	Vertical	99	2.74	-	33.74	5.79	30.71
AV	5.1856G	98.45	Inf	-Inf	89.63	3	Vertical	99	2.74	-	33.74	5.79	30.71

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

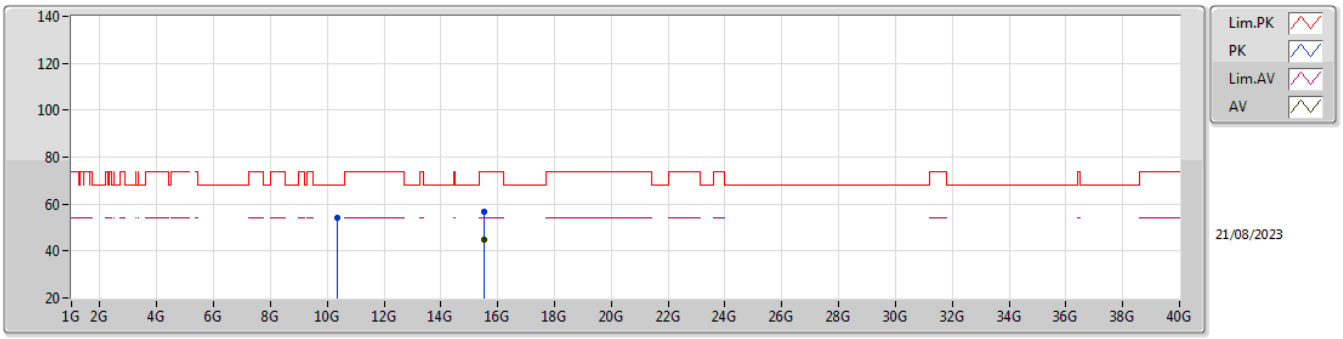


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.1468G	66.05	74.00	-7.95	57.37	3	Horizontal	264	1.05	-	33.59	5.77	30.68
AV	5.1498G	51.46	54.00	-2.54	42.77	3	Horizontal	264	1.05	-	33.60	5.77	30.68
PK	5.186G	105.73	Inf	-Inf	96.91	3	Horizontal	264	1.05	-	33.74	5.79	30.71
AV	5.1854G	96.40	Inf	-Inf	87.58	3	Horizontal	264	1.05	-	33.74	5.79	30.71

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

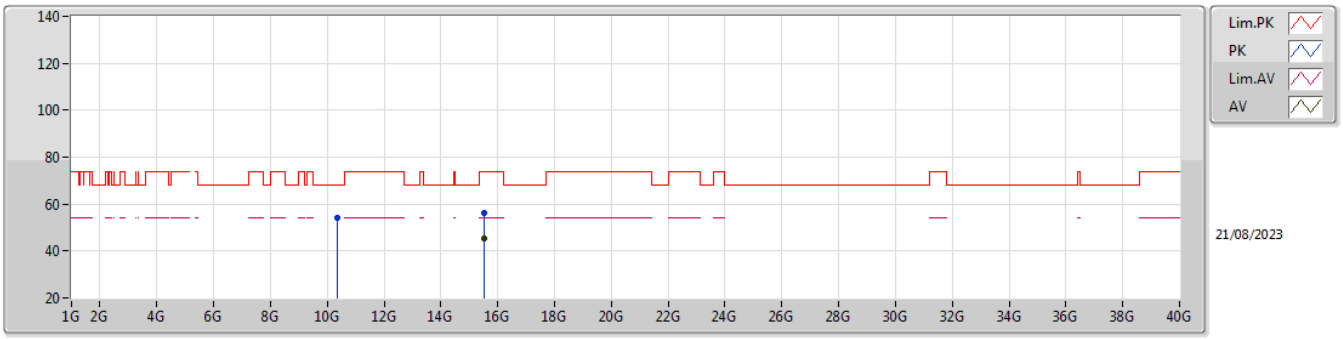


EUT Z_1TX
Setting 63
02-H-B-5

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	10.3477G	54.04	68.20	-14.16	38.90	3	Vertical	321	2.13	-	38.50	8.42	31.78
PK	15.52746G	56.66	74.00	-17.34	40.41	3	Vertical	60	1.79	-	37.89	10.31	31.95
AV	15.52524G	44.99	54.00	-9.01	28.73	3	Vertical	60	1.79	-	37.90	10.31	31.95

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

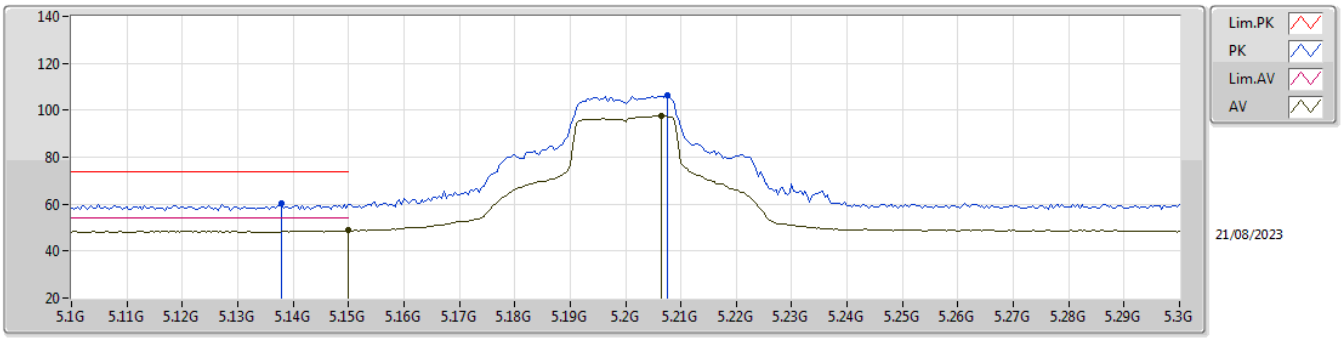


EUT Z_1TX
Setting 63
02-H-B-5

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	10.36684G	54.21	68.20	-13.99	39.09	3	Horizontal	170	1.80	-	38.47	8.43	31.78
PK	15.52788G	56.31	74.00	-17.69	40.06	3	Horizontal	126	2.41	-	37.89	10.31	31.95
AV	15.525G	45.15	54.00	-8.85	28.89	3	Horizontal	126	2.41	-	37.90	10.31	31.95

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

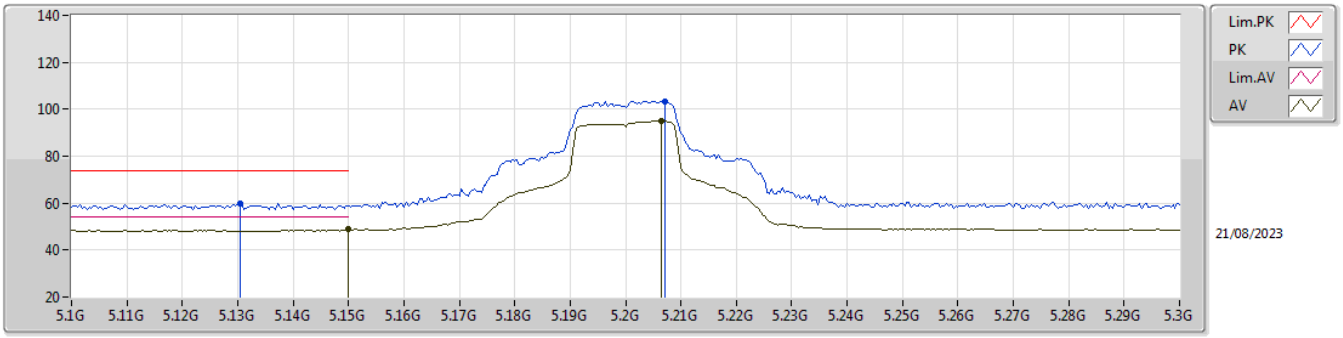


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.138G	60.25	74.00	-13.75	51.57	3	Vertical	171	1.89	-	33.58	5.77	30.67
AV	5.15G	48.72	54.00	-5.28	40.02	3	Vertical	171	1.89	-	33.60	5.78	30.68
PK	5.2076G	106.37	Inf	-Inf	97.50	3	Vertical	171	1.89	-	33.80	5.80	30.73
AV	5.2064G	97.77	Inf	-Inf	88.90	3	Vertical	171	1.89	-	33.80	5.80	30.73

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

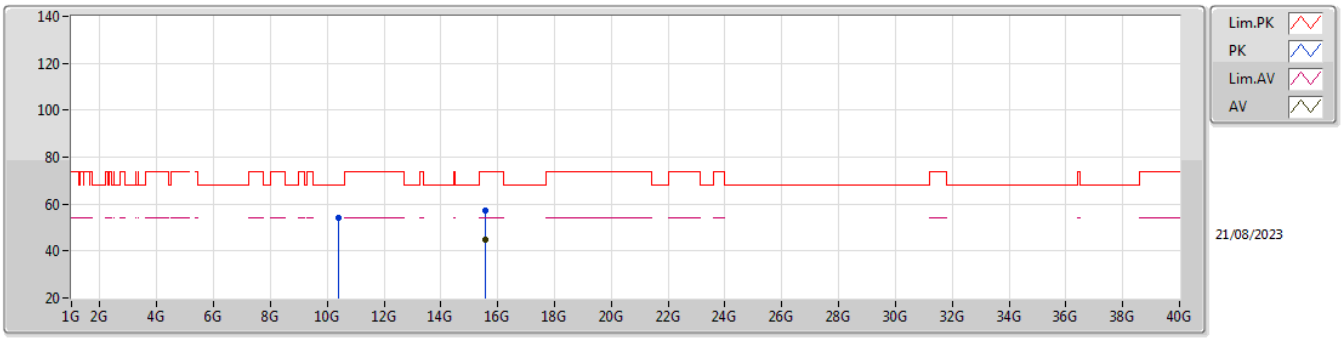


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.1304G	59.97	74.00	-14.03	51.30	3	Horizontal	270	1.40	-	33.56	5.77	30.66
AV	5.15G	48.72	54.00	-5.28	40.02	3	Horizontal	270	1.40	-	33.60	5.78	30.68
PK	5.2072G	103.46	Inf	-Inf	94.59	3	Horizontal	270	1.40	-	33.80	5.80	30.73
AV	5.2064G	95.17	Inf	-Inf	86.30	3	Horizontal	270	1.40	-	33.80	5.80	30.73

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

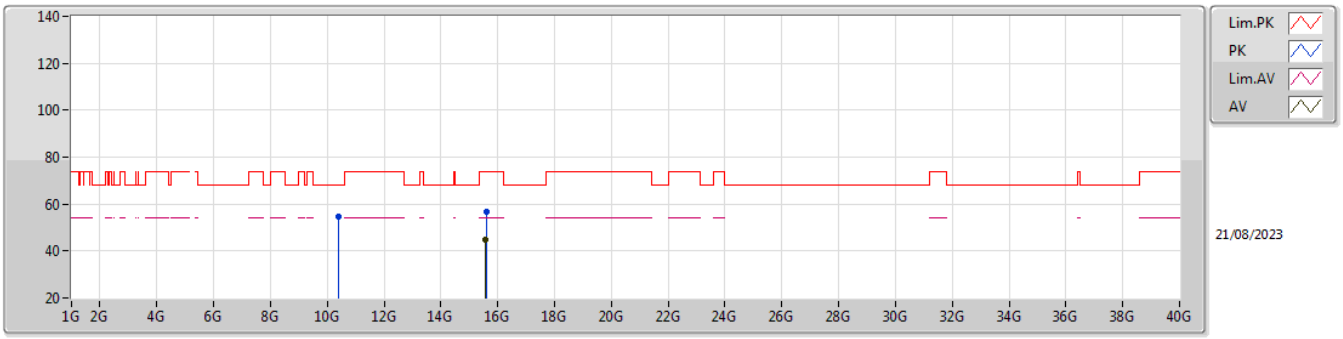


EUT Z_1TX
Setting 63
02-H-B-5

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	10.40744G	53.91	68.20	-14.29	38.86	3	Vertical	133	2.56	-	38.40	8.44	31.79
PK	15.58584G	57.50	74.00	-16.50	41.40	3	Vertical	323	1.01	-	37.73	10.33	31.96
AV	15.58512G	44.98	54.00	-9.02	28.88	3	Vertical	323	1.01	-	37.73	10.33	31.96

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

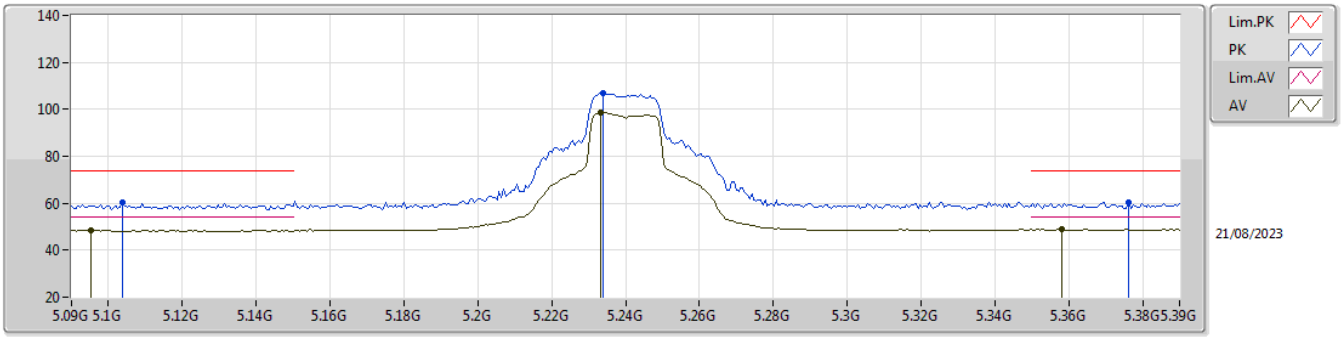


EUT Z_1TX
Setting 63
02-H-B-5

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	10.4138G	54.50	68.20	-13.70	39.45	3	Horizontal	189	1.80	-	38.40	8.44	31.79
PK	15.60378G	56.71	74.00	-17.29	40.63	3	Horizontal	310	1.80	-	37.70	10.34	31.96
AV	15.5853G	45.06	54.00	-8.94	28.96	3	Horizontal	310	1.80	-	37.73	10.33	31.96

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

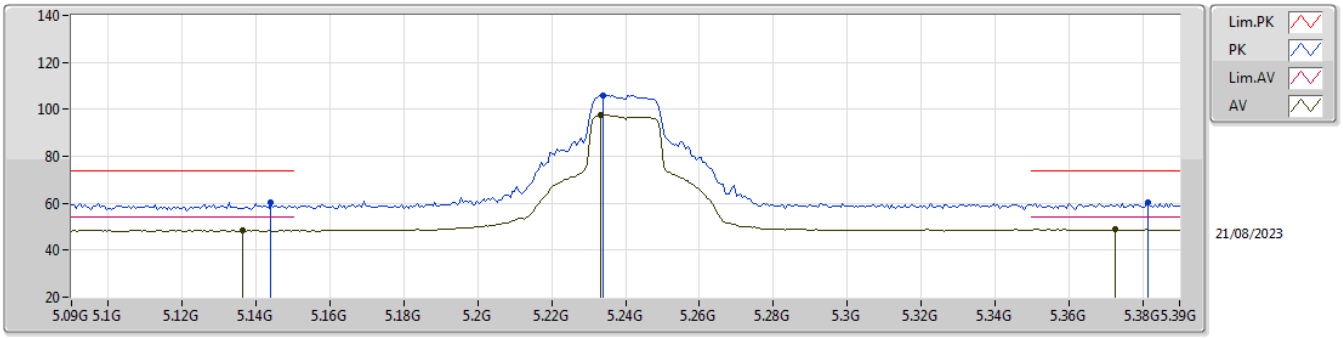


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.1038G	60.42	74.00	-13.58	51.80	3	Vertical	165	2.17	-	33.51	5.75	30.64
AV	5.0954G	48.48	54.00	-5.52	39.87	3	Vertical	165	2.17	-	33.50	5.75	30.64
PK	5.234G	107.06	Inf	-Inf	98.19	3	Vertical	165	2.17	-	33.80	5.82	30.75
AV	5.2334G	98.63	Inf	-Inf	89.76	3	Vertical	165	2.17	-	33.80	5.82	30.75
PK	5.3762G	60.38	74.00	-13.62	51.35	3	Vertical	165	2.17	-	34.00	5.89	30.86
AV	5.3582G	49.00	54.00	-5.00	39.97	3	Vertical	165	2.17	-	34.00	5.88	30.85

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

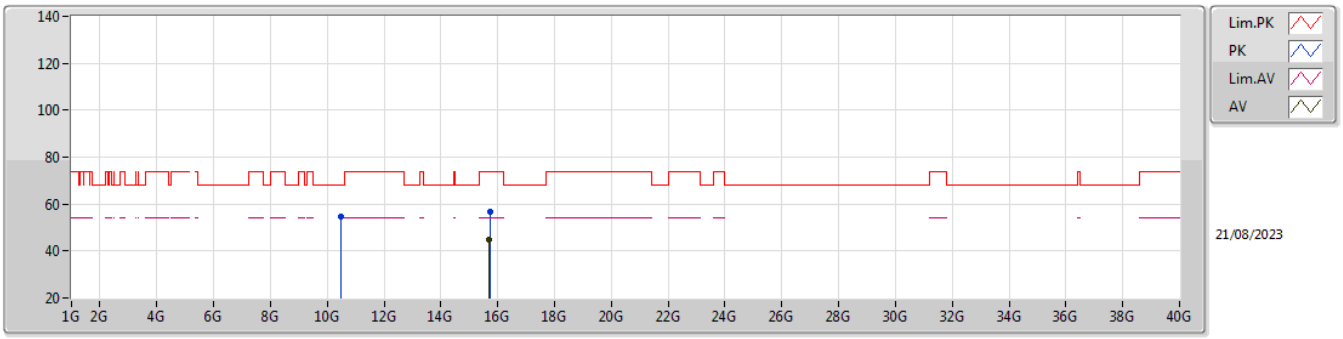


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.144G	60.25	74.00	-13.75	51.57	3	Horizontal	265	1.04	-	33.59	5.77	30.68
AV	5.1362G	48.58	54.00	-5.42	39.91	3	Horizontal	265	1.04	-	33.57	5.77	30.67
PK	5.234G	105.93	Inf	-Inf	97.06	3	Horizontal	265	1.04	-	33.80	5.82	30.75
AV	5.2334G	97.70	Inf	-Inf	88.83	3	Horizontal	265	1.04	-	33.80	5.82	30.75
PK	5.3816G	60.39	74.00	-13.61	51.37	3	Horizontal	265	1.04	-	34.00	5.89	30.87
AV	5.3726G	49.06	54.00	-4.94	40.03	3	Horizontal	265	1.04	-	34.00	5.89	30.86

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

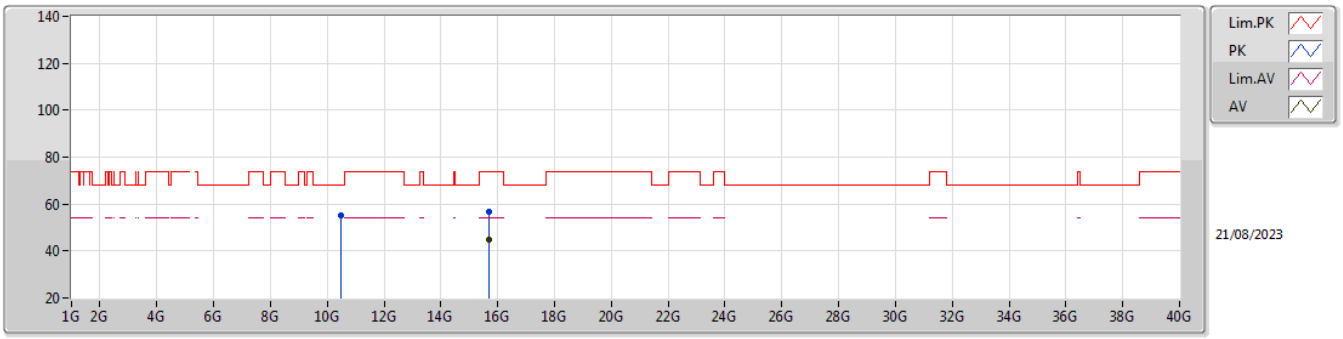


EUT Z_1TX
Setting 63
02-H-B-5

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	10.47106G	54.79	68.20	-13.41	39.73	3	Vertical	19	1.33	-	38.40	8.46	31.80
PK	15.73266G	56.79	74.00	-17.21	40.70	3	Vertical	181	2.48	-	37.67	10.39	31.97
AV	15.70572G	45.07	54.00	-8.93	28.88	3	Vertical	181	2.48	-	37.78	10.38	31.97

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

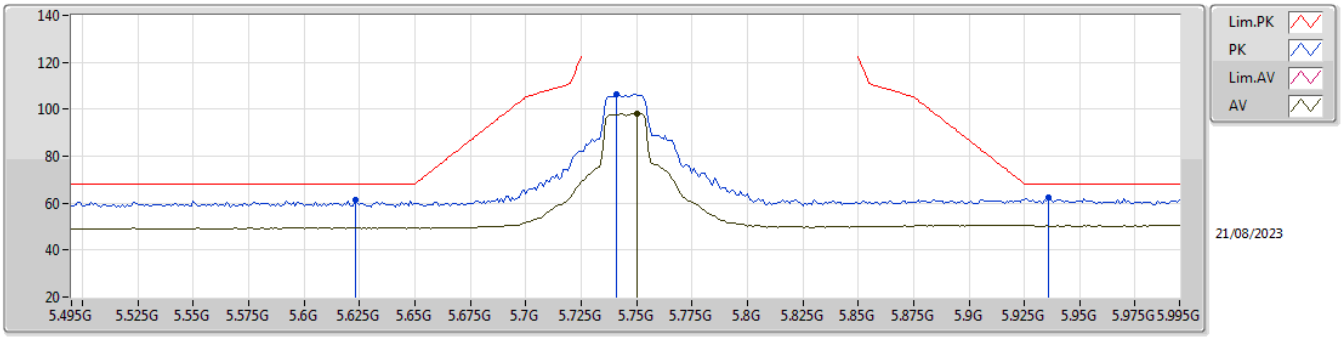


EUT Z_1TX
Setting 63
02-H-B-5

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	10.48324G	55.03	68.20	-13.17	39.97	3	Horizontal	250	1.80	-	38.40	8.47	31.81
PK	15.70692G	56.63	74.00	-17.37	40.45	3	Horizontal	243	1.78	-	37.77	10.38	31.97
AV	15.7062G	44.81	54.00	-9.19	28.62	3	Horizontal	243	1.78	-	37.78	10.38	31.97

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

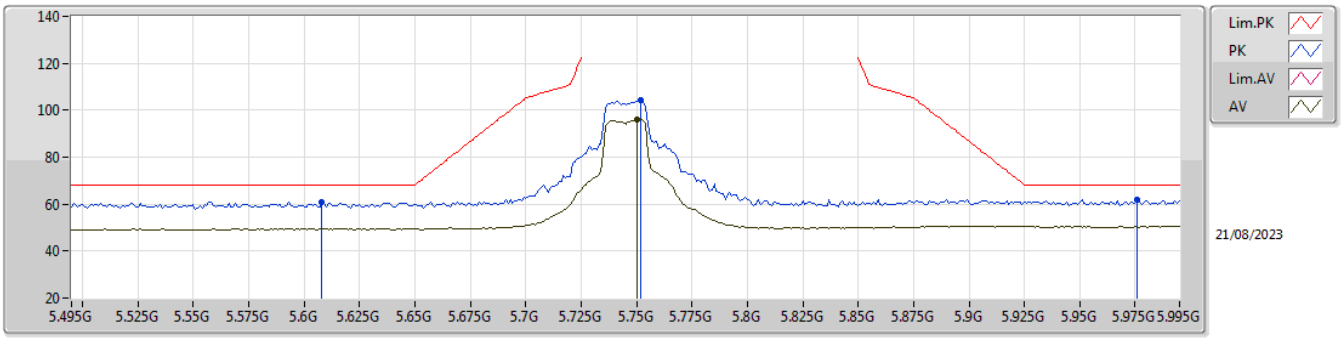


EUT Z_1TX
Setting 63
02-H-P-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.623G	61.45	68.20	-6.75	52.42	3	Vertical	113	2.46	-	33.95	6.10	31.02
PK	5.741G	106.51	Inf	-Inf	97.48	3	Vertical	113	2.46	-	34.00	6.10	31.07
AV	5.75G	98.16	Inf	-Inf	89.14	3	Vertical	113	2.46	-	34.00	6.10	31.08
PK	5.936G	62.27	68.20	-5.93	52.93	3	Vertical	113	2.46	-	34.27	6.23	31.16

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

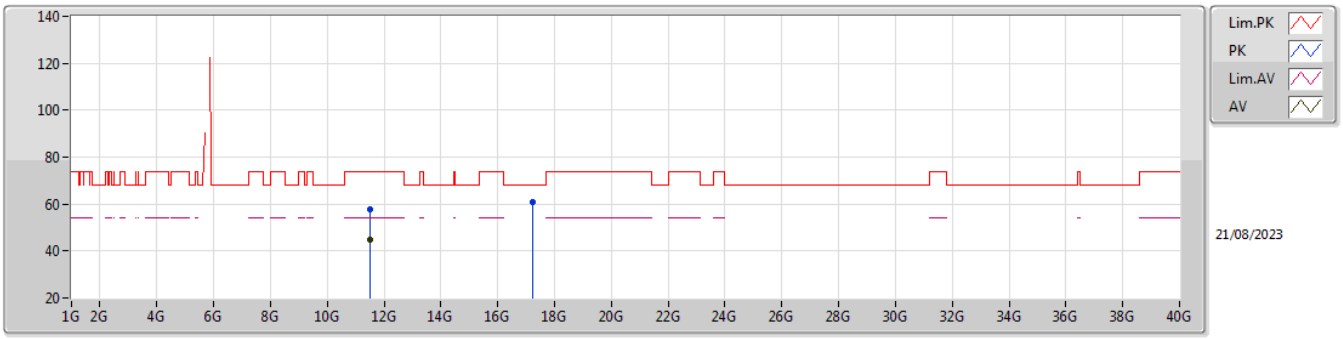


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.608G	60.91	68.20	-7.29	51.84	3	Horizontal	91	1.20	-	33.98	6.10	31.01
PK	5.752G	104.50	Inf	-Inf	95.48	3	Horizontal	91	1.20	-	34.00	6.10	31.08
AV	5.75G	96.01	Inf	-Inf	86.99	3	Horizontal	91	1.20	-	34.00	6.10	31.08
PK	5.976G	61.81	68.20	-6.39	52.42	3	Horizontal	91	1.20	-	34.30	6.27	31.18

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

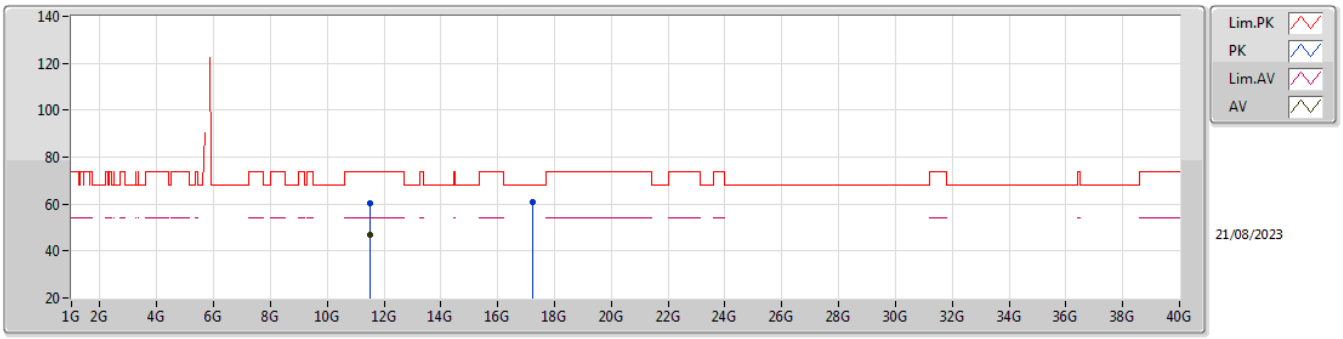


EUT Z_1TX
Setting 63
02-H-B-5

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	11.49295G	57.56	74.00	-16.44	42.01	3	Vertical	218	2.40	-	38.89	8.82	32.16
AV	11.48895G	45.06	54.00	-8.94	29.52	3	Vertical	218	2.40	-	38.88	8.82	32.16
PK	17.24934G	60.82	68.20	-7.38	40.18	3	Vertical	172	1.87	-	42.00	10.94	32.30

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

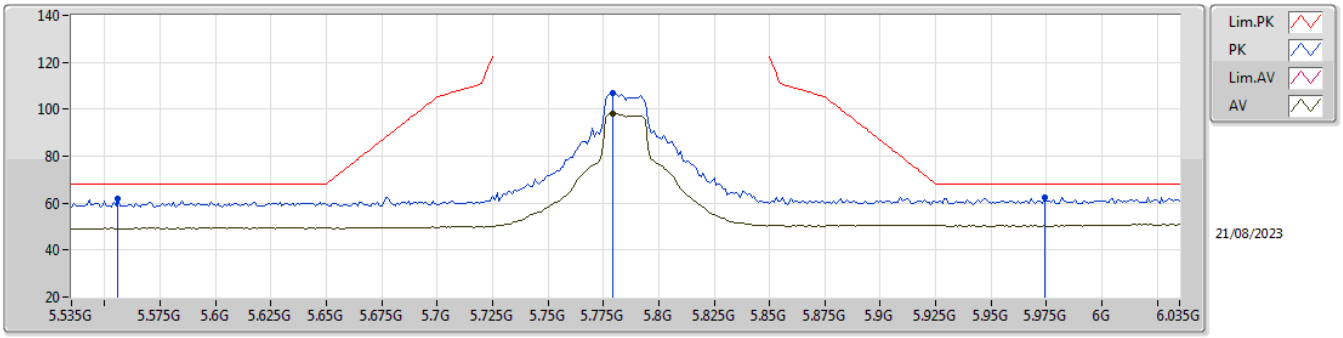


EUT Z_1TX
Setting 63
02-H-B-5

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	11.49088G	60.09	74.00	-13.91	44.55	3	Horizontal	257	1.24	-	38.88	8.82	32.16
AV	11.49048G	46.89	54.00	-7.11	31.35	3	Horizontal	257	1.24	-	38.88	8.82	32.16
PK	17.23236G	60.68	68.20	-7.52	40.08	3	Horizontal	107	2.58	-	41.96	10.93	32.29

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

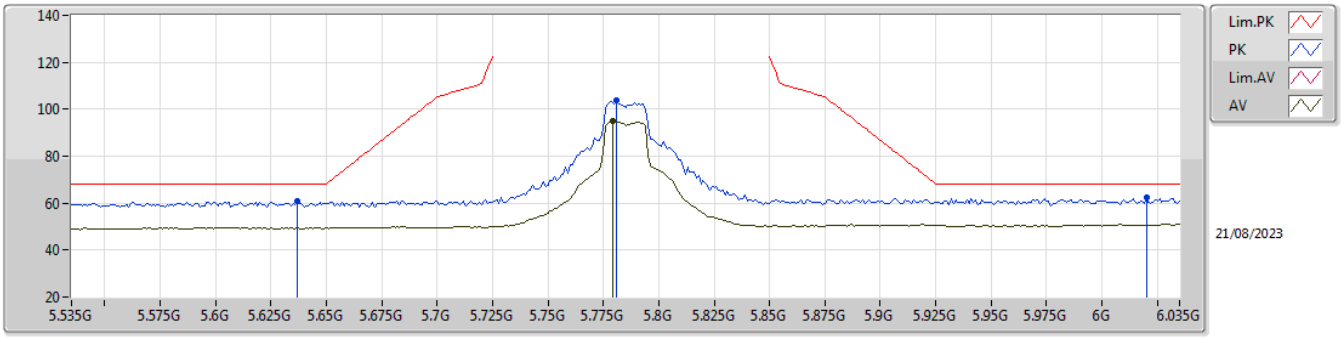


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.556G	61.76	68.20	-6.44	52.60	3	Vertical	113	2.68	-	34.09	6.06	30.99
PK	5.779G	107.00	Inf	-Inf	97.99	3	Vertical	113	2.68	-	34.00	6.10	31.09
AV	5.779G	98.32	Inf	-Inf	89.31	3	Vertical	113	2.68	-	34.00	6.10	31.09
PK	5.974G	62.58	68.20	-5.62	53.19	3	Vertical	113	2.68	-	34.30	6.27	31.18

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

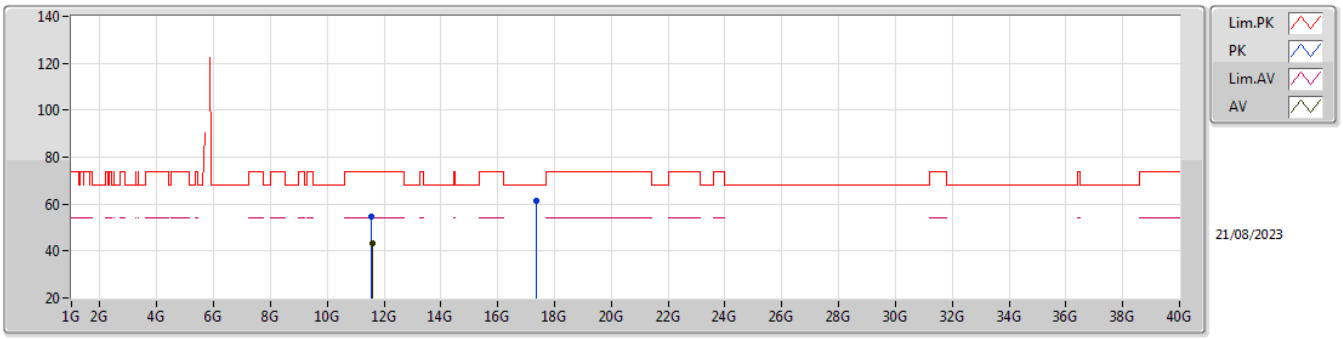


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.637G	61.01	68.20	-7.19	52.00	3	Horizontal	90	1.16	-	33.93	6.10	31.02
PK	5.781G	104.00	Inf	-Inf	94.99	3	Horizontal	90	1.16	-	34.00	6.10	31.09
AV	5.779G	94.82	Inf	-Inf	85.81	3	Horizontal	90	1.16	-	34.00	6.10	31.09
PK	6.02G	62.60	68.20	-5.60	53.12	3	Horizontal	90	1.16	-	34.38	6.30	31.20

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

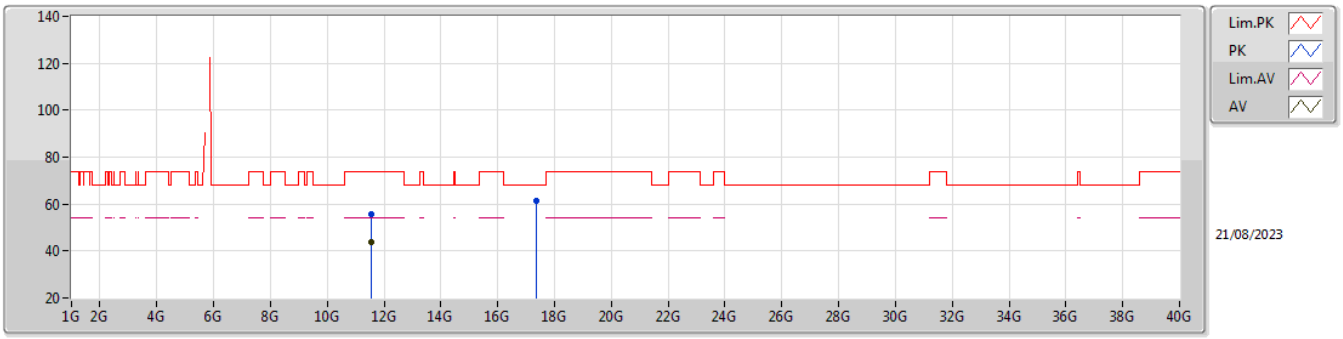


EUT Z_1TX
Setting 63
02-H-B-5

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	11.56922G	54.52	74.00	-19.48	38.53	3	Vertical	298	2.75	-	39.18	8.85	32.04
AV	11.58188G	43.04	54.00	-10.96	26.98	3	Vertical	298	2.75	-	39.23	8.85	32.02
PK	17.34936G	61.32	68.20	-6.88	39.93	3	Vertical	328	2.94	-	42.79	10.97	32.37

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

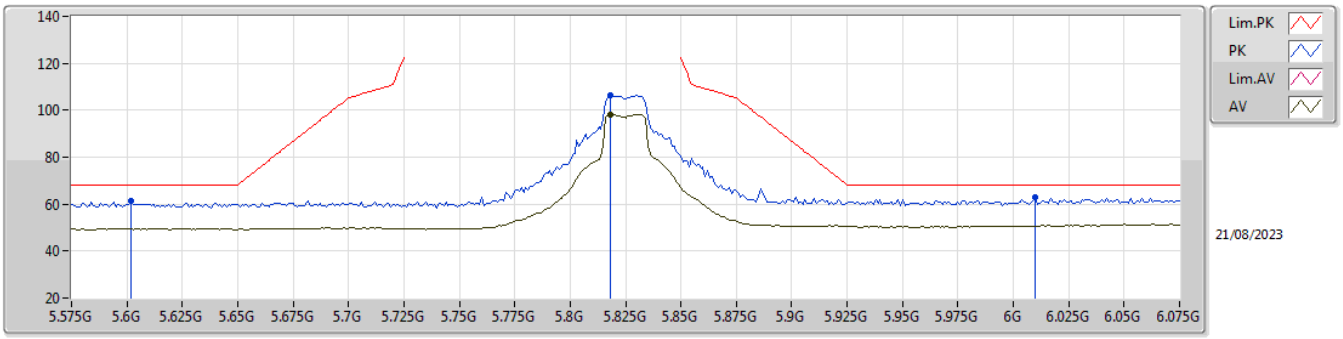


EUT Z_1TX
Setting 63
02-H-B-5

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	11.55896G	55.62	74.00	-18.38	39.69	3	Horizontal	134	1.09	-	39.14	8.85	32.06
AV	11.56982G	44.01	54.00	-9.99	28.02	3	Horizontal	134	1.09	-	39.18	8.85	32.04
PK	17.34294G	61.23	68.20	-6.97	39.89	3	Horizontal	319	2.13	-	42.73	10.97	32.36

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

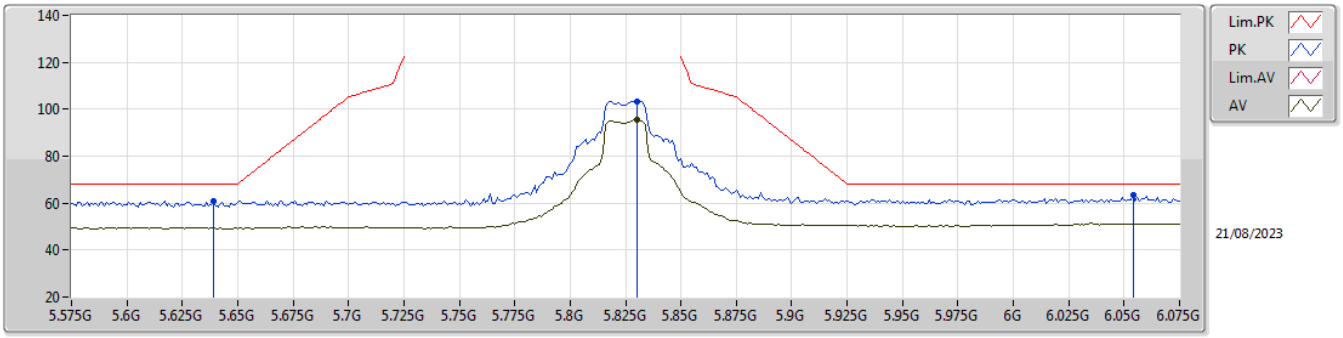


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.602G	61.13	68.20	-7.07	52.04	3	Vertical	115	2.87	-	34.00	6.10	31.01
PK	5.818G	106.46	Inf	-Inf	97.46	3	Vertical	115	2.87	-	34.00	6.11	31.11
AV	5.818G	98.27	Inf	-Inf	89.27	3	Vertical	115	2.87	-	34.00	6.11	31.11
PK	6.01G	62.68	68.20	-5.52	53.23	3	Vertical	115	2.87	-	34.34	6.30	31.19

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

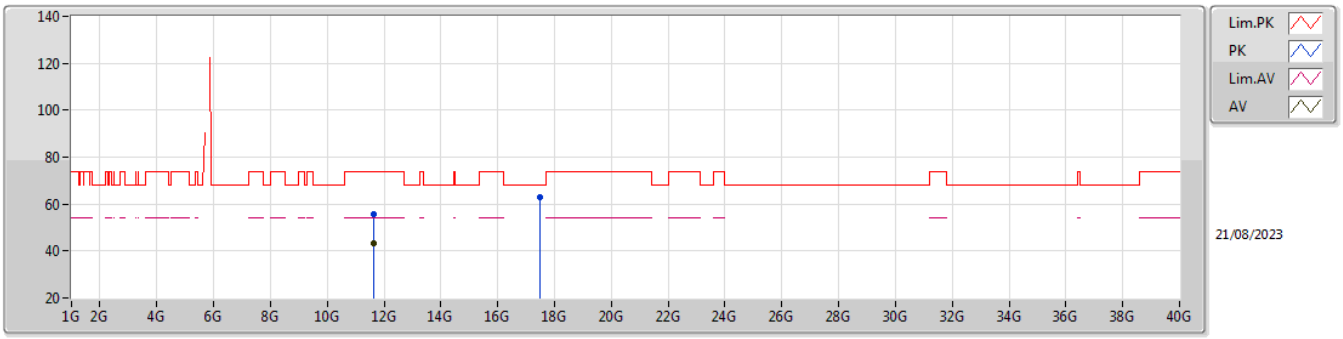


EUT Z_1TX
Setting 63
02-H-P-5-10

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	5.639G	61.01	68.20	-7.19	52.01	3	Horizontal	100	1.15	-	33.92	6.10	31.02
PK	5.83G	103.36	Inf	-Inf	94.35	3	Horizontal	100	1.15	-	34.00	6.12	31.11
AV	5.83G	95.51	Inf	-Inf	86.50	3	Horizontal	100	1.15	-	34.00	6.12	31.11
PK	6.054G	63.47	68.20	-4.73	53.88	3	Horizontal	100	1.15	-	34.50	6.30	31.21

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

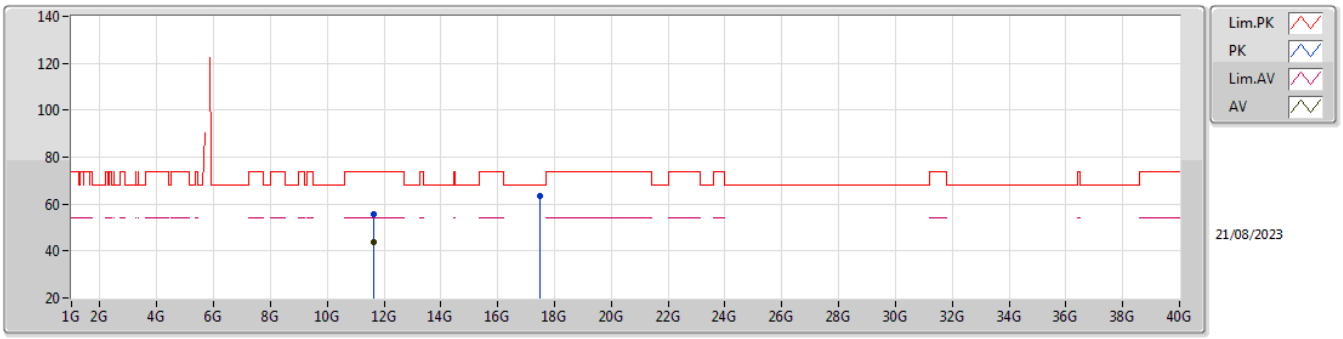


EUT Z_1TX
Setting 63
02-H-B-5

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	11.65264G	55.45	74.00	-18.55	39.15	3	Vertical	77	2.19	-	39.31	8.88	31.89
AV	11.64088G	43.26	54.00	-10.74	27.00	3	Vertical	77	2.19	-	39.30	8.87	31.91
PK	17.48232G	62.76	68.20	-5.44	40.44	3	Vertical	107	2.27	-	43.76	11.02	32.46

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

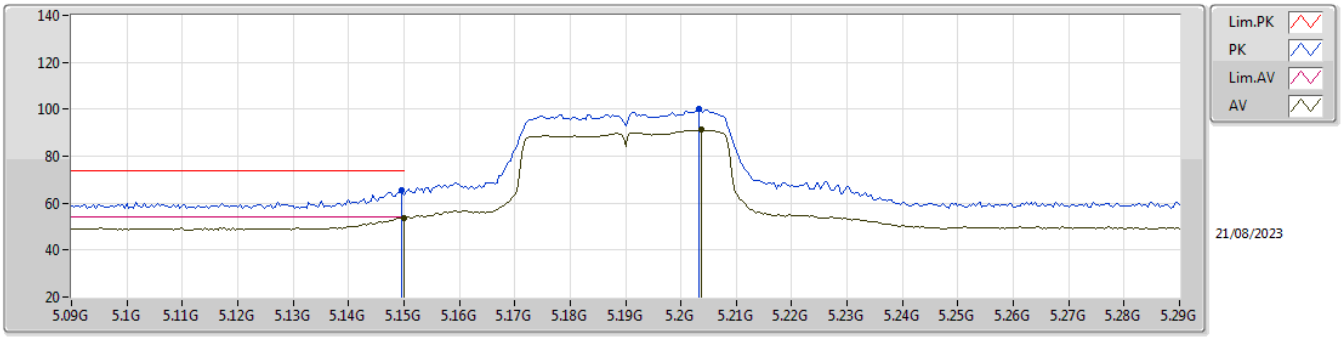


EUT Z_1TX
Setting 63
02-H-B-5

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	11.63758G	55.84	74.00	-18.16	39.59	3	Horizontal	272	2.76	-	39.30	8.87	31.92
AV	11.63752G	43.72	54.00	-10.28	27.47	3	Horizontal	272	2.76	-	39.30	8.87	31.92
PK	17.48568G	63.34	68.20	-4.86	40.99	3	Horizontal	314	2.92	-	43.79	11.02	32.46

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

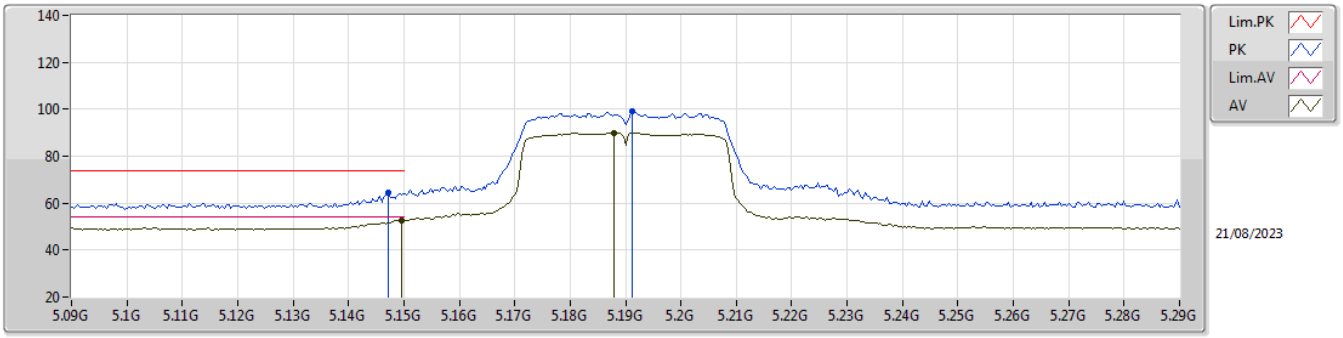


EUT Z_1TX
Setting 49
02-H-B-5-10

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	5.1496G	65.34	74.00	-8.66	56.65	3	Vertical	174	2.20	-	33.60	5.77	30.68
AV	5.15G	53.67	54.00	-0.33	44.97	3	Vertical	174	2.20	-	33.60	5.78	30.68
PK	5.2032G	99.98	Inf	-Inf	91.10	3	Vertical	174	2.20	-	33.80	5.80	30.72
AV	5.2036G	91.14	Inf	-Inf	82.26	3	Vertical	174	2.20	-	33.80	5.80	30.72

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

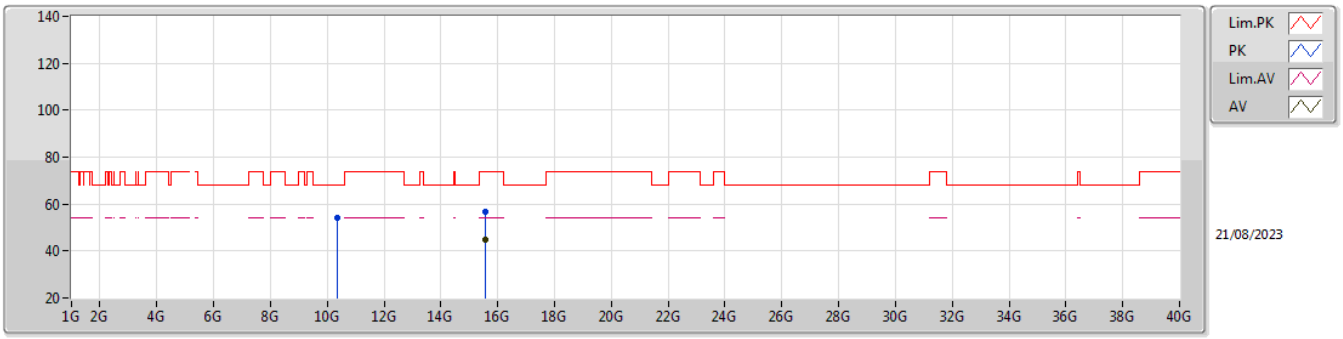


EUT Z_1TX
Setting 49
02-H-B-5-10

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	5.1472G	64.60	74.00	-9.40	55.92	3	Horizontal	266	1.05	-	33.59	5.77	30.68
AV	5.1496G	52.56	54.00	-1.44	43.87	3	Horizontal	266	1.05	-	33.60	5.77	30.68
PK	5.1912G	99.03	Inf	-Inf	90.18	3	Horizontal	266	1.05	-	33.76	5.80	30.71
AV	5.188G	90.07	Inf	-Inf	81.24	3	Horizontal	266	1.05	-	33.75	5.79	30.71

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

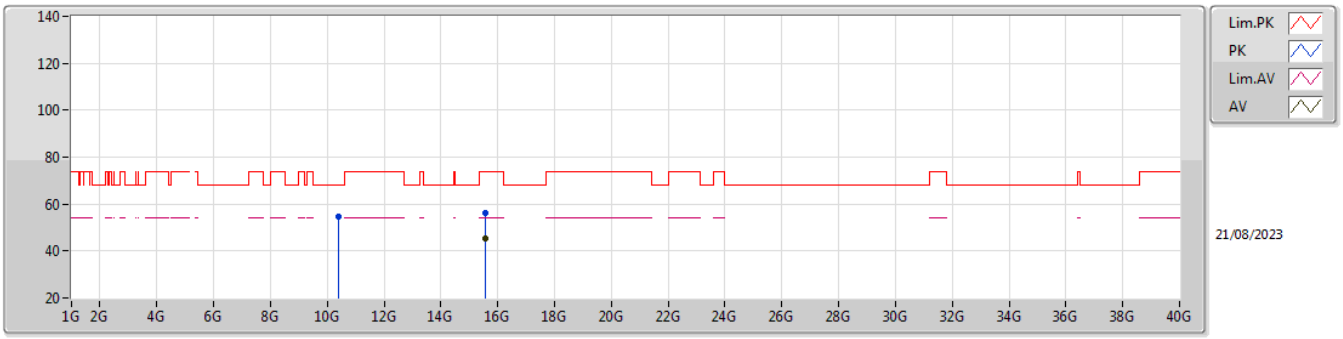


EUT Z_1TX
Setting 49
02-H-B-5

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	10.36824G	54.04	68.20	-14.16	38.93	3	Vertical	129	1.26	-	38.46	8.43	31.78
PK	15.57006G	56.56	74.00	-17.44	40.43	3	Vertical	42	1.65	-	37.76	10.33	31.96
AV	15.56004G	44.97	54.00	-9.03	28.82	3	Vertical	42	1.65	-	37.78	10.32	31.95

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

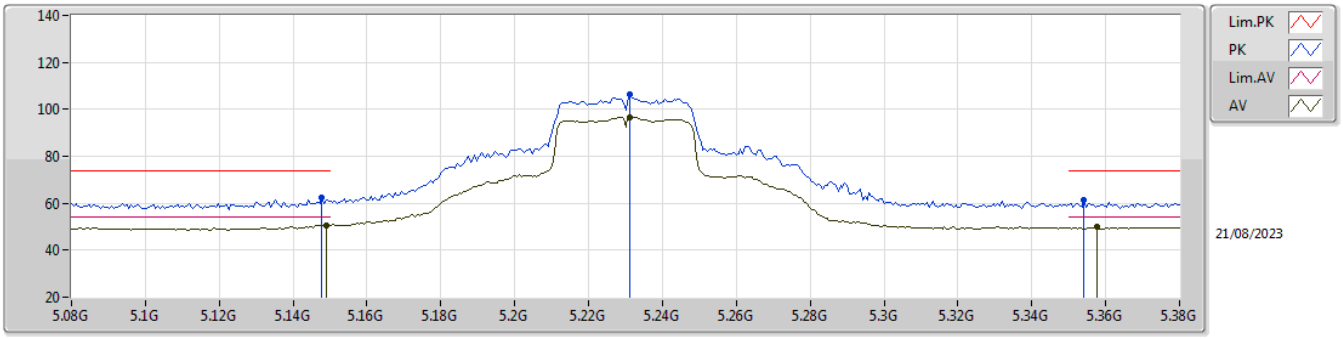


EUT Z_1TX
Setting 49
02-H-B-5

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	10.3866G	54.71	68.20	-13.49	39.63	3	Horizontal	241	1.43	-	38.43	8.44	31.79
PK	15.55512G	55.97	74.00	-18.03	39.81	3	Horizontal	191	2.46	-	37.79	10.32	31.95
AV	15.56016G	45.29	54.00	-8.71	29.14	3	Horizontal	191	2.46	-	37.78	10.32	31.95

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

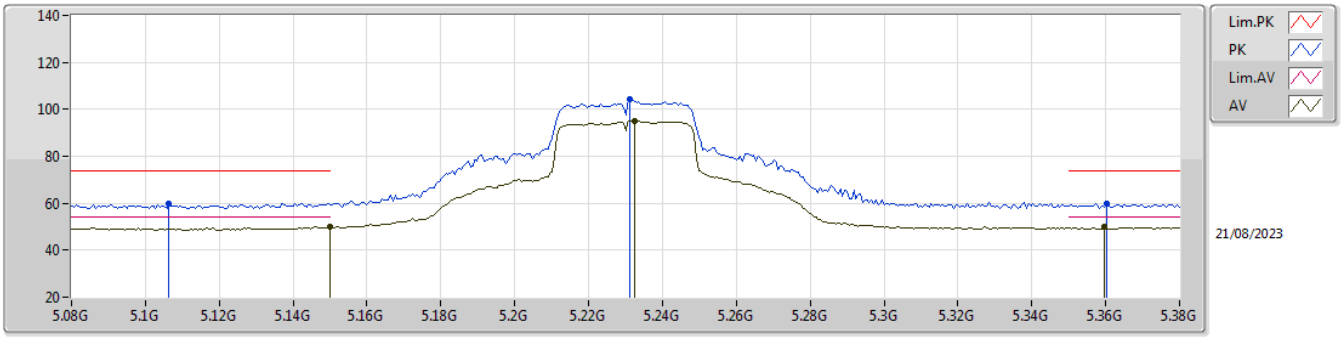


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.1478G	62.35	74.00	-11.65	53.66	3	Vertical	146	2.54	-	33.60	5.77	30.68
AV	5.149G	50.69	54.00	-3.31	42.00	3	Vertical	146	2.54	-	33.60	5.77	30.68
PK	5.2312G	106.22	Inf	-Inf	97.34	3	Vertical	146	2.54	-	33.80	5.82	30.74
AV	5.2312G	96.72	Inf	-Inf	87.84	3	Vertical	146	2.54	-	33.80	5.82	30.74
PK	5.3542G	61.29	74.00	-12.71	52.25	3	Vertical	146	2.54	-	34.00	5.88	30.84
AV	5.3578G	49.97	54.00	-4.03	40.94	3	Vertical	146	2.54	-	34.00	5.88	30.85

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

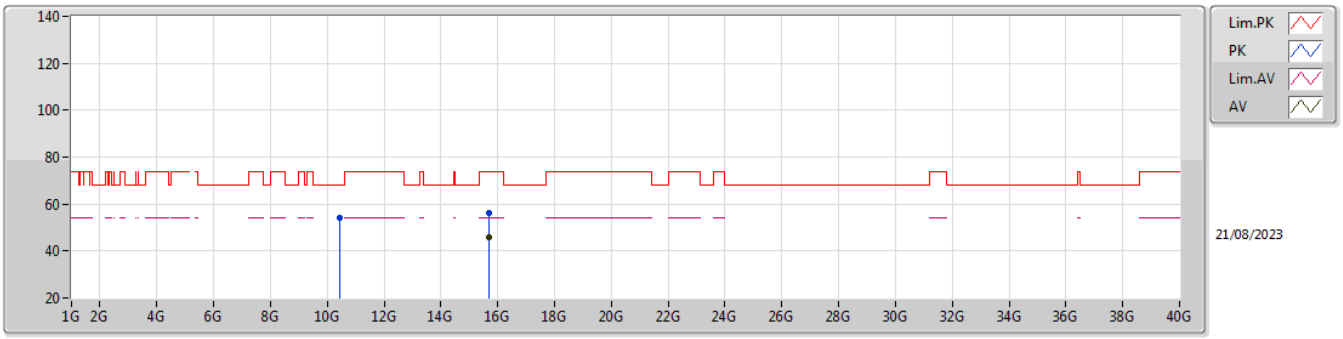


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.1064G	59.93	74.00	-14.07	51.32	3	Horizontal	265	1.04	-	33.51	5.75	30.65
AV	5.15G	50.20	54.00	-3.80	41.51	3	Horizontal	265	1.04	-	33.60	5.77	30.68
PK	5.2312G	104.42	Inf	-Inf	95.54	3	Horizontal	265	1.04	-	33.80	5.82	30.74
AV	5.2324G	95.18	Inf	-Inf	86.31	3	Horizontal	265	1.04	-	33.80	5.82	30.75
PK	5.3602G	60.03	74.00	-13.97	51.00	3	Horizontal	265	1.04	-	34.00	5.88	30.85
AV	5.3596G	49.80	54.00	-4.20	40.77	3	Horizontal	265	1.04	-	34.00	5.88	30.85

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

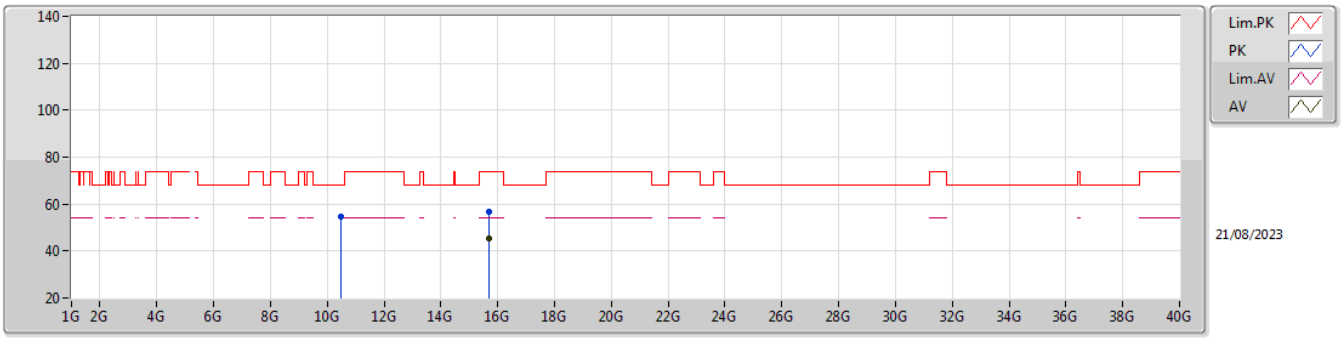


EUT Z_1TX
Setting 63
02-H-B-5

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	10.46G	54.37	68.20	-13.83	39.31	3	Vertical	327	2.75	-	38.40	8.46	31.80
PK	15.70236G	56.21	74.00	-17.79	40.01	3	Vertical	10	1.11	-	37.79	10.38	31.97
AV	15.6885G	45.67	54.00	-8.33	29.48	3	Vertical	10	1.11	-	37.78	10.38	31.97

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

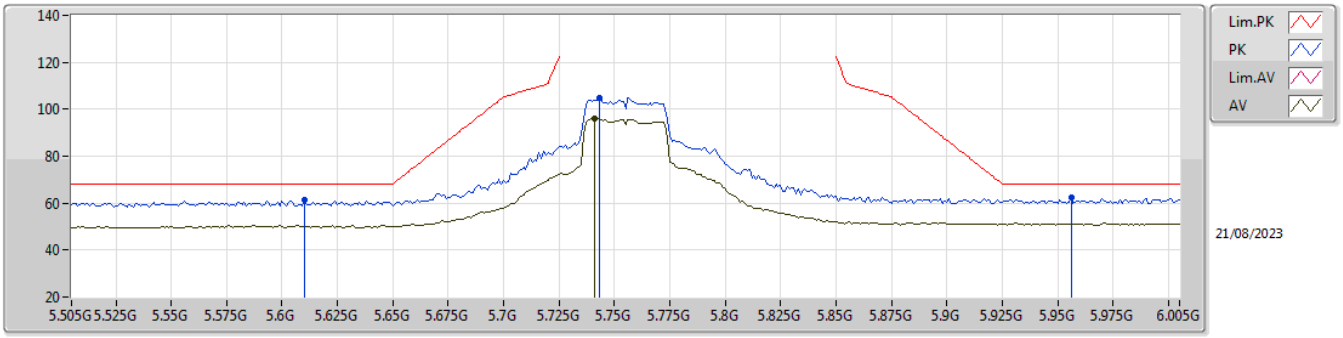


EUT Z_1TX
Setting 63
02-H-B-5

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	10.46876G	54.45	68.20	-13.75	39.39	3	Horizontal	201	2.78	-	38.40	8.46	31.80
PK	15.69072G	56.50	74.00	-17.50	40.31	3	Horizontal	108	2.13	-	37.78	10.38	31.97
AV	15.68736G	45.50	54.00	-8.50	29.32	3	Horizontal	108	2.13	-	37.77	10.37	31.96

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

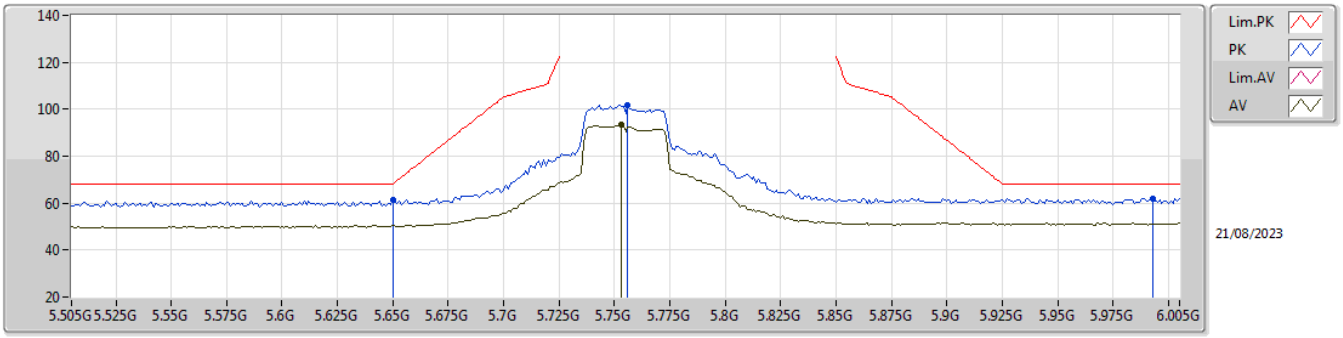


EUT Z_1TX
Setting 63
02-H-B-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.61G	61.15	68.20	-7.05	52.08	3	Vertical	113	2.59	-	33.98	6.10	31.01
PK	5.743G	104.86	Inf	-Inf	95.83	3	Vertical	113	2.59	-	34.00	6.10	31.07
AV	5.741G	96.09	Inf	-Inf	87.06	3	Vertical	113	2.59	-	34.00	6.10	31.07
PK	5.956G	62.48	68.20	-5.72	53.10	3	Vertical	113	2.59	-	34.30	6.25	31.17

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

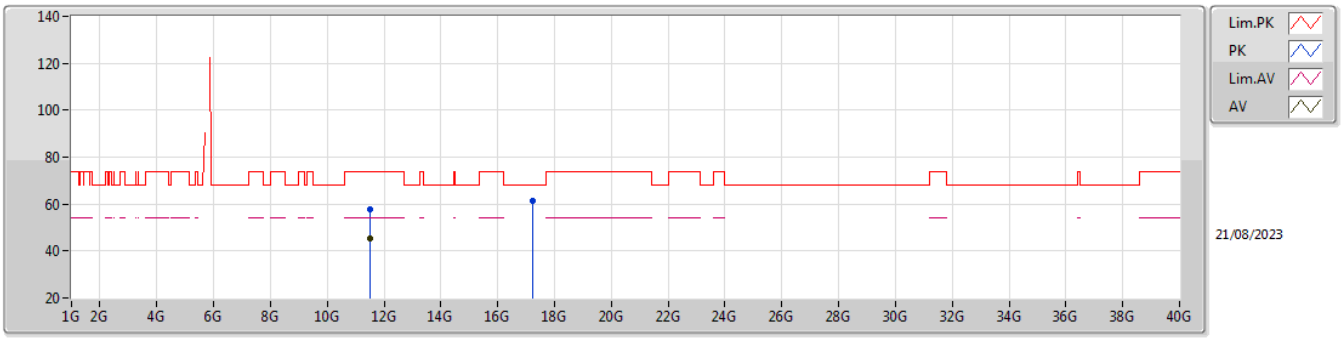


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.65G	61.63	68.20	-6.57	52.66	3	Horizontal	90	1.21	-	33.90	6.10	31.03
PK	5.756G	101.72	Inf	-Inf	92.70	3	Horizontal	90	1.21	-	34.00	6.10	31.08
AV	5.753G	93.44	Inf	-Inf	84.42	3	Horizontal	90	1.21	-	34.00	6.10	31.08
PK	5.993G	62.09	68.20	-6.11	52.69	3	Horizontal	90	1.21	-	34.30	6.29	31.19

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

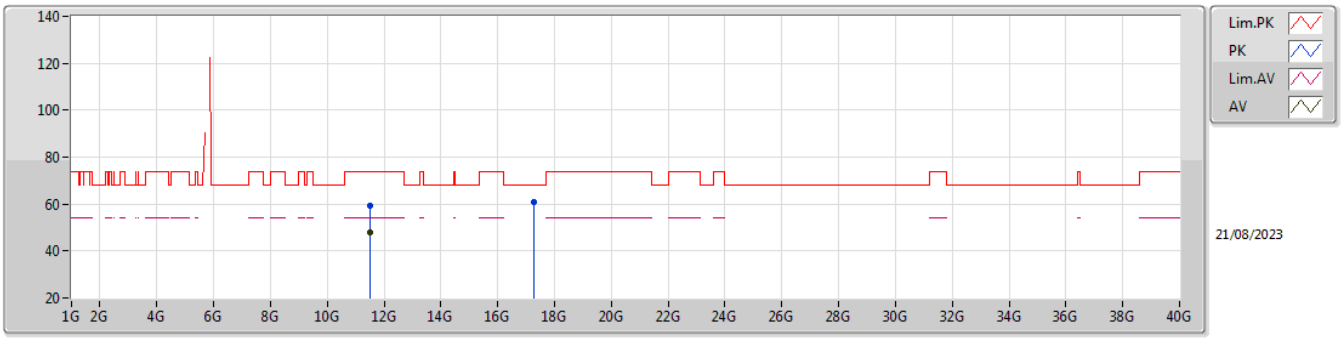


EUT Z_1TX
Setting 63
02-H-B-5

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	11.50838G	57.64	74.00	-16.36	42.03	3	Vertical	218	2.40	-	38.93	8.83	32.15
AV	11.51018G	45.48	54.00	-8.52	29.85	3	Vertical	218	2.40	-	38.94	8.83	32.14
PK	17.25126G	61.28	68.20	-6.92	40.63	3	Vertical	259	2.31	-	42.01	10.94	32.30

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

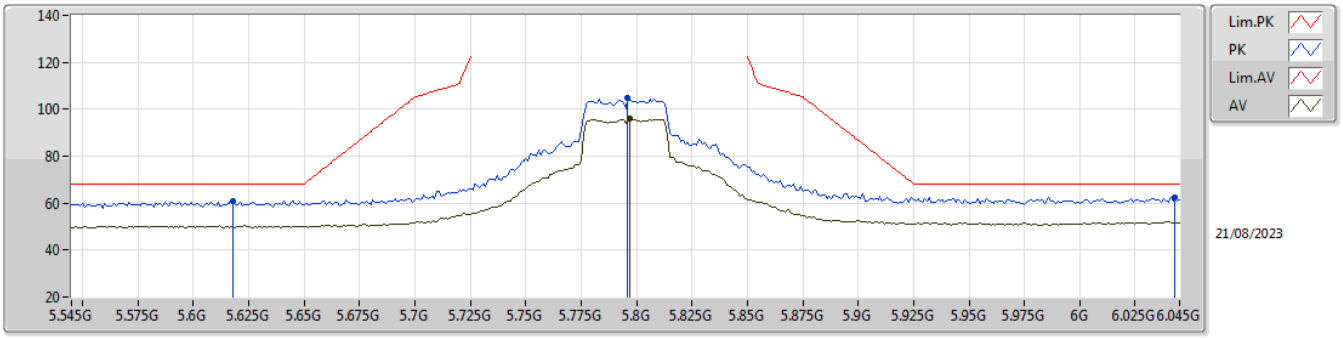


EUT Z_1TX
Setting 63
02-H-B-5

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	11.52104G	59.51	74.00	-14.49	43.82	3	Horizontal	249	1.09	-	38.98	8.83	32.12
AV	11.50994G	47.89	54.00	-6.11	32.26	3	Horizontal	249	1.09	-	38.94	8.83	32.14
PK	17.25732G	60.92	68.20	-7.28	40.24	3	Horizontal	137	1.01	-	42.04	10.94	32.30

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

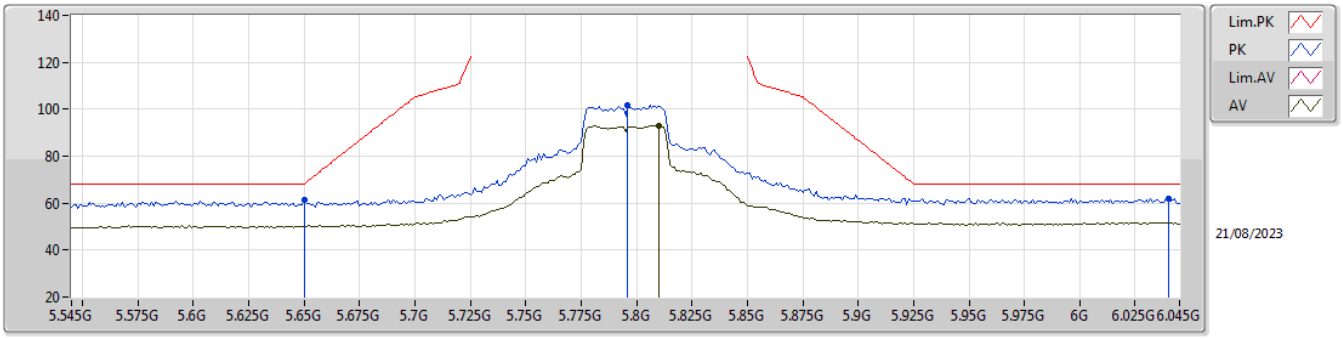


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.618G	61.02	68.20	-7.18	51.97	3	Vertical	115	2.65	-	33.96	6.10	31.01
PK	5.796G	104.91	Inf	-Inf	95.91	3	Vertical	115	2.65	-	34.00	6.10	31.10
AV	5.797G	95.81	Inf	-Inf	86.81	3	Vertical	115	2.65	-	34.00	6.10	31.10
PK	6.043G	62.52	68.20	-5.68	52.95	3	Vertical	115	2.65	-	34.47	6.30	31.20

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

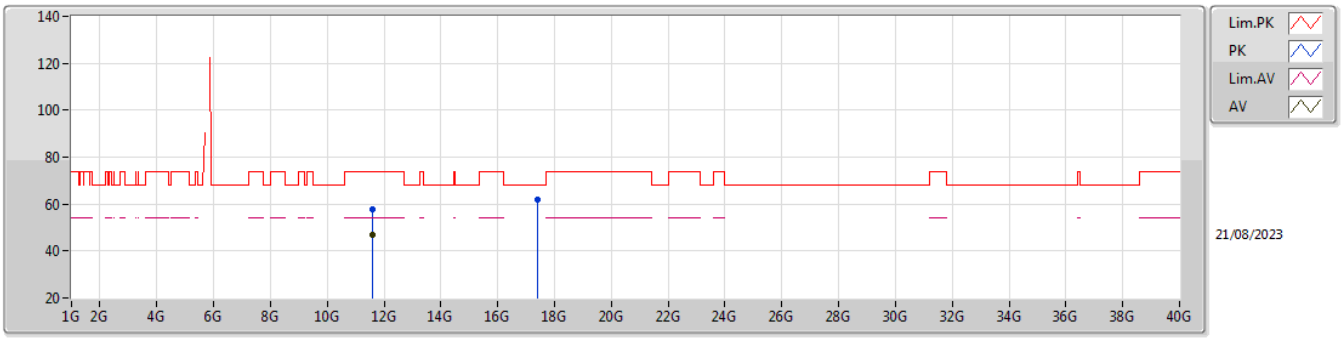


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.65G	61.52	68.20	-6.68	52.55	3	Horizontal	91	1.17	-	33.90	6.10	31.03
PK	5.796G	101.82	Inf	-Inf	92.82	3	Horizontal	91	1.17	-	34.00	6.10	31.10
AV	5.81G	92.90	Inf	-Inf	83.90	3	Horizontal	91	1.17	-	34.00	6.10	31.10
PK	6.04G	62.10	68.20	-6.10	52.54	3	Horizontal	91	1.17	-	34.46	6.30	31.20

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

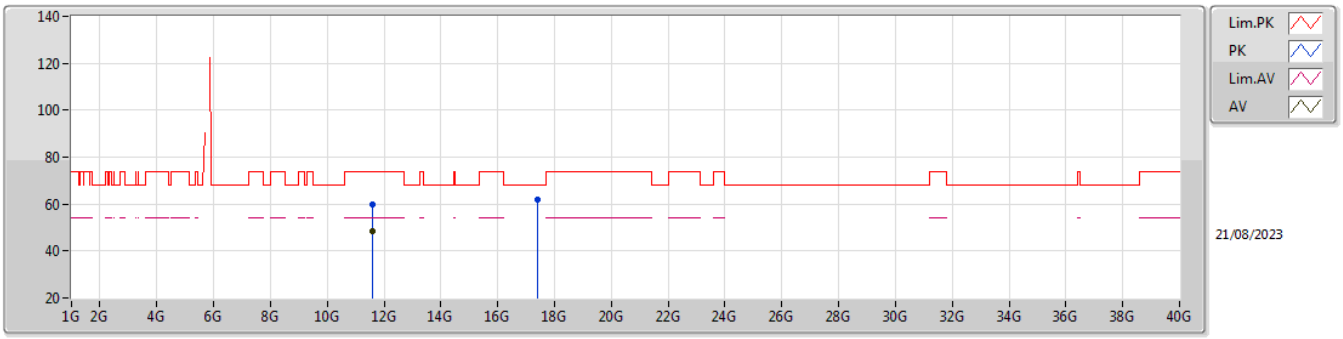


EUT Z_1TX
Setting 63
02-H-B-5

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	11.59846G	57.83	74.00	-16.17	41.67	3	Vertical	41	2.70	-	39.29	8.86	31.99
AV	11.59054G	46.64	54.00	-7.36	30.52	3	Vertical	41	2.70	-	39.26	8.86	32.00
PK	17.38764G	61.80	68.20	-6.40	40.17	3	Vertical	150	2.31	-	43.03	10.99	32.39

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

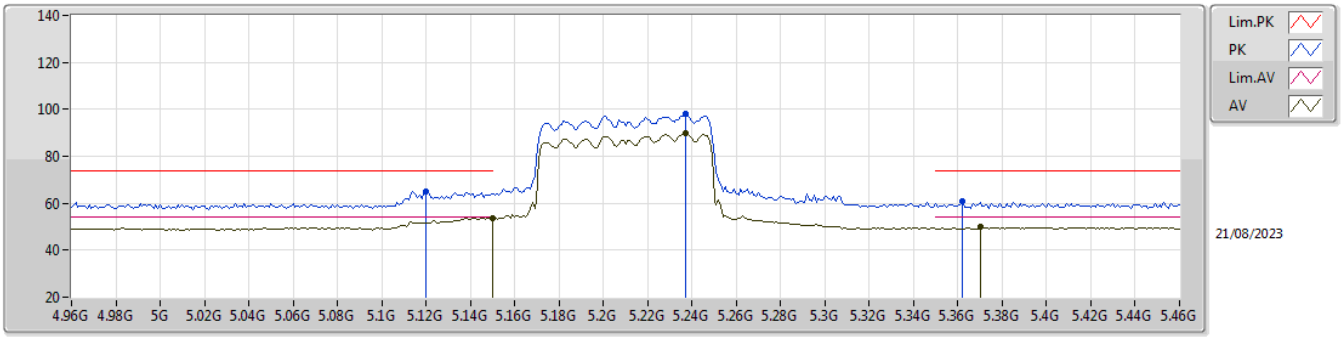


EUT Z_1TX
Setting 63
02-H-B-5

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	11.58814G	59.74	74.00	-14.26	43.63	3	Horizontal	259	1.35	-	39.25	8.86	32.00
AV	11.59138G	48.35	54.00	-5.65	32.22	3	Horizontal	259	1.35	-	39.27	8.86	32.00
PK	17.39754G	61.93	68.20	-6.27	40.25	3	Horizontal	279	2.99	-	43.09	10.99	32.40

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

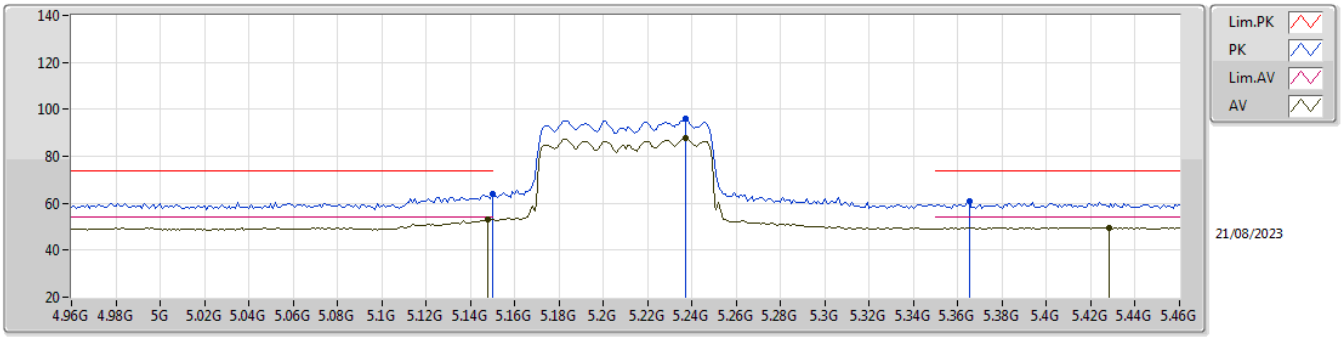


EUT Z_1TX
Setting 48
02-H-B-5-10

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	5.12G	65.05	74.00	-8.95	56.41	3	Vertical	100	3.00	-	33.54	5.76	30.66
AV	5.15G	53.67	54.00	-0.33	44.97	3	Vertical	100	3.00	-	33.60	5.78	30.68
PK	5.237G	97.90	Inf	-Inf	89.03	3	Vertical	100	3.00	-	33.80	5.82	30.75
AV	5.237G	89.74	Inf	-Inf	80.87	3	Vertical	100	3.00	-	33.80	5.82	30.75
PK	5.362G	60.70	74.00	-13.30	51.67	3	Vertical	100	3.00	-	34.00	5.88	30.85
AV	5.37G	50.02	54.00	-3.98	40.99	3	Vertical	100	3.00	-	34.00	5.89	30.86

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

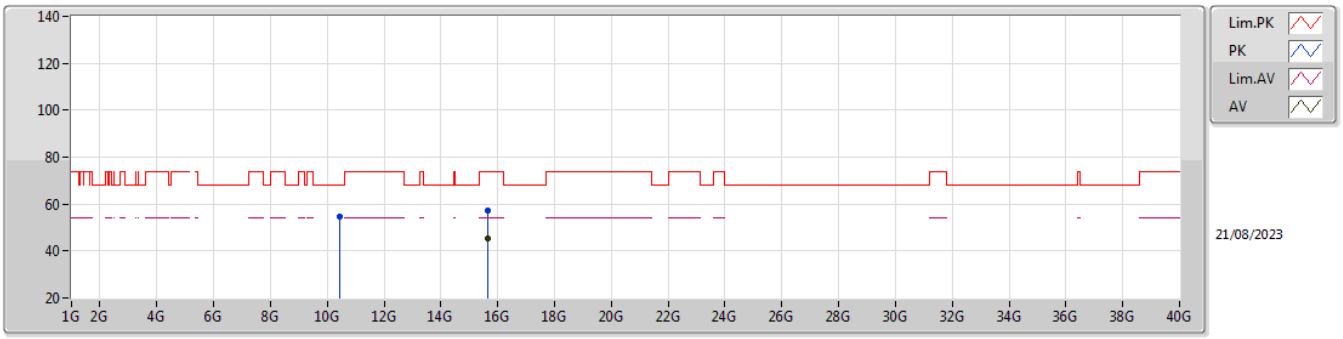


EUT Z_1TX
Setting 48
02-H-B-5-10

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	5.15G	63.73	74.00	-10.27	55.03	3	Horizontal	266	1.04	-	33.60	5.78	30.68
AV	5.148G	53.18	54.00	-0.82	44.49	3	Horizontal	266	1.04	-	33.60	5.77	30.68
PK	5.237G	95.88	Inf	-Inf	87.01	3	Horizontal	266	1.04	-	33.80	5.82	30.75
AV	5.237G	87.66	Inf	-Inf	78.79	3	Horizontal	266	1.04	-	33.80	5.82	30.75
PK	5.365G	60.77	74.00	-13.23	51.74	3	Horizontal	266	1.04	-	34.00	5.88	30.85
AV	5.428G	49.71	54.00	-4.29	40.62	3	Horizontal	266	1.04	-	34.06	5.93	30.90

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

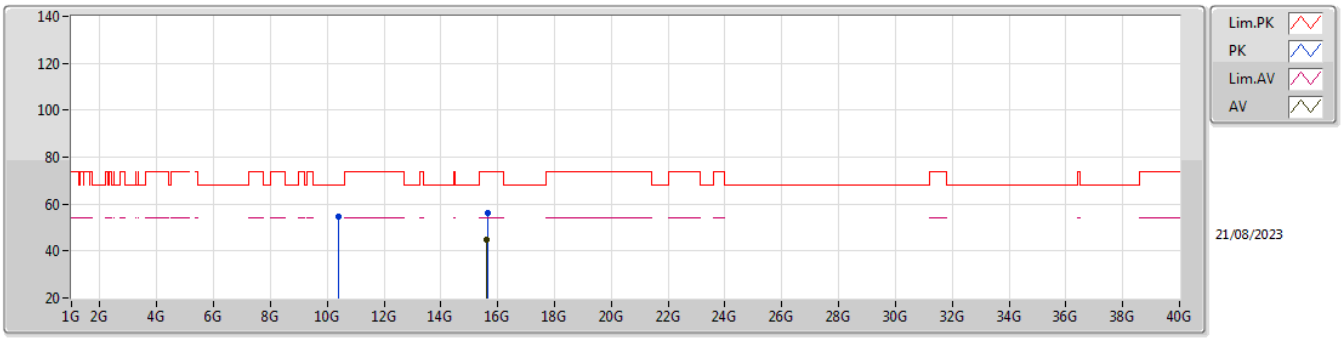


EUT Z_1TX
Setting 48
02-H-B-5

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	10.43158G	54.78	68.20	-13.42	39.73	3	Vertical	169	2.60	-	38.40	8.45	31.80
PK	15.6357G	57.20	74.00	-16.80	41.11	3	Vertical	300	1.71	-	37.70	10.35	31.96
AV	15.63768G	45.23	54.00	-8.77	29.13	3	Vertical	300	1.71	-	37.70	10.36	31.96

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

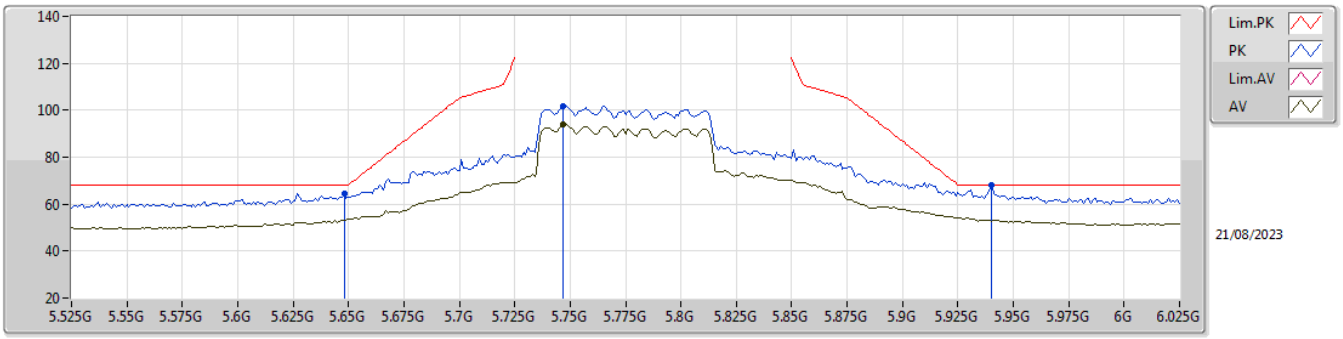


EUT Z_1TX
Setting 48
02-H-B-5

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	10.4176G	54.84	68.20	-13.36	39.78	3	Horizontal	135	1.74	-	38.40	8.45	31.79
PK	15.64398G	55.98	74.00	-18.02	39.88	3	Horizontal	27	2.40	-	37.70	10.36	31.96
AV	15.624G	45.06	54.00	-8.94	28.97	3	Horizontal	27	2.40	-	37.70	10.35	31.96

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

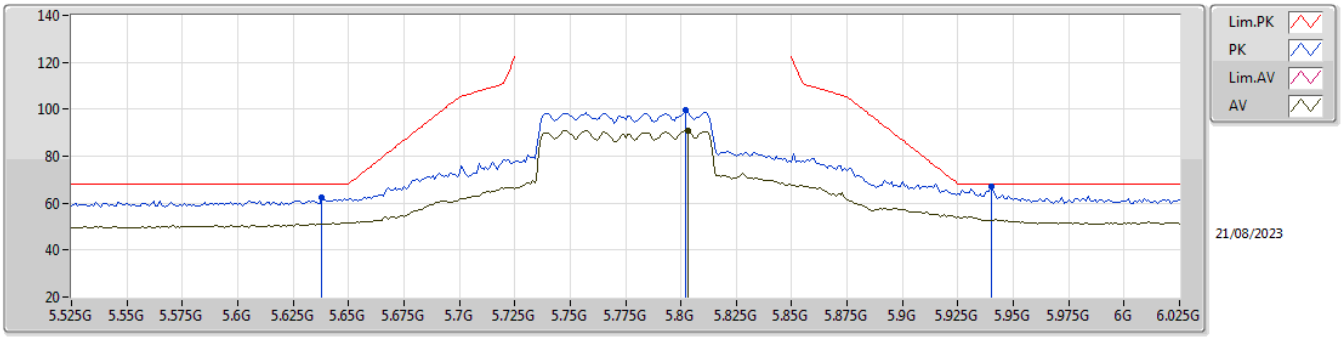


EUT Z_1TX
Setting 63
02-H-B-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	64.74	68.20	-3.46	55.77	3	Vertical	113	2.46	-	33.90	6.10	31.03
PK	5.747G	101.69	Inf	-Inf	92.66	3	Vertical	113	2.46	-	34.00	6.10	31.07
AV	5.747G	94.03	Inf	-Inf	85.00	3	Vertical	113	2.46	-	34.00	6.10	31.07
PK	5.94G	68.00	68.20	-0.20	58.64	3	Vertical	113	2.46	-	34.28	6.24	31.16

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

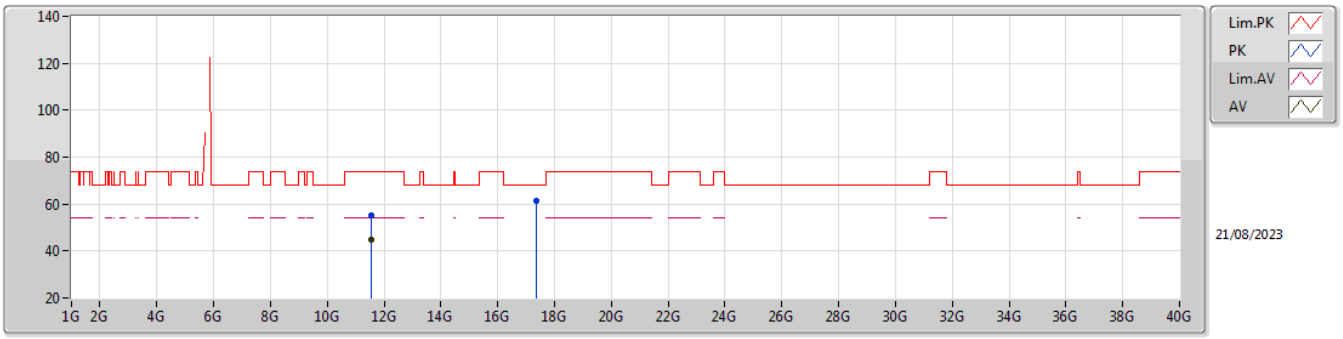


EUT Z_1TX
Setting 63
02-H-B-5-10

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	5.638G	62.24	68.20	-5.96	53.24	3	Horizontal	91	1.16	-	33.92	6.10	31.02
PK	5.802G	99.48	Inf	-Inf	90.49	3	Horizontal	91	1.16	-	34.00	6.09	31.10
AV	5.803G	90.90	Inf	-Inf	81.91	3	Horizontal	91	1.16	-	34.00	6.09	31.10
PK	5.94G	67.11	68.20	-1.09	57.75	3	Horizontal	91	1.16	-	34.28	6.24	31.16

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

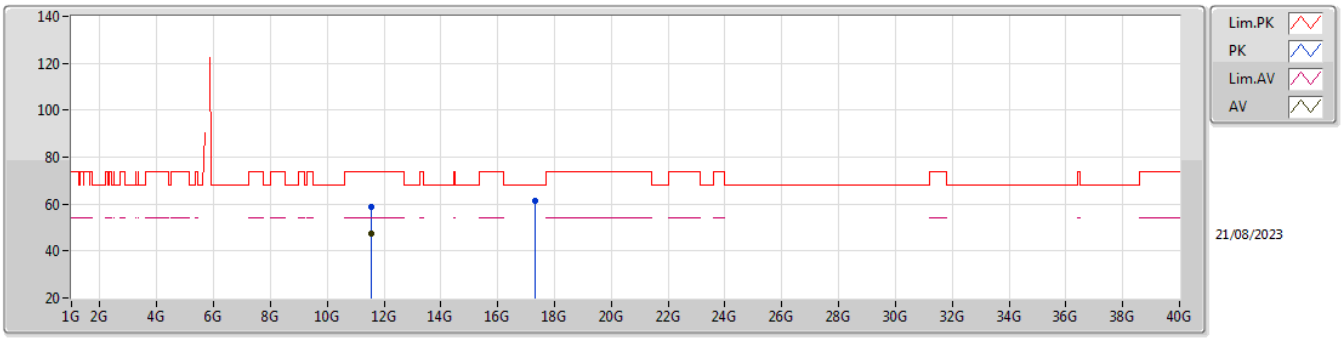


EUT Z_1TX
Setting 63
02-H-B-5

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	11.54016G	55.27	74.00	-18.73	39.46	3	Vertical	51	2.98	-	39.06	8.84	32.09
AV	11.54094G	44.77	54.00	-9.23	28.96	3	Vertical	51	2.98	-	39.06	8.84	32.09
PK	17.33982G	61.32	68.20	-6.88	40.01	3	Vertical	341	2.10	-	42.70	10.97	32.36

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX



EUT Z_1TX
Setting 63
02-H-B-5

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	11.55948G	58.67	74.00	-15.33	42.74	3	Horizontal	248	1.09	-	39.14	8.85	32.06
AV	11.5593G	47.35	54.00	-6.65	31.42	3	Horizontal	248	1.09	-	39.14	8.85	32.06
PK	17.33688G	61.33	68.20	-6.87	40.05	3	Horizontal	204	2.74	-	42.67	10.97	32.36