Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	HEDOAP100E
Equipment	:	802.11ac Wave 2 Dual-Band Enterprise Access Point
Brand Name	:	Edgecore
Model Name	:	OAP100e
Applicant	:	Accton Technology Corp No. 1, Creation Rd. III, Science-based Industrial Park Hsin Chu 30077, Taiwan R.O.C.
Manufacturer (1)	:	Accton Technology Corp No. 1, Creation Rd. III, Science-based Industrial Park Hsin Chu 30077, Taiwan R.O.C.
Manufacturer (2)	:	Accton Technology Corporation Zhunan Factory 1F & 4F & 5F , No. 1, Keyi St., Zhunan Township, Miaoli County 350, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Feb. 15, 2022, and testing was started from Feb. 15, 2022 and completed on Apr. 07, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR972347-06AB	01	Initial issue of report	May 10, 2022

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	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Jessie Wei

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	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	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Blue tooth	GPS					
1	1	-	-	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	Note 1
2	2	-	-	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	
3		1	-	-	ACCTON	OAP 100-1018-EC	Dipole Antenna	I-PEX	
4		2	-	-	ACCTON	OAP 100-1018-EC	Dipole Antenna	I-PEX	
5	-	-	1	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	
6	-	-	-	1	Master Wave	OAP 100-1018-EC	Chip Antenna	I-PEX	

Note 1

Ant.	Gain (dBi)			
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	GPS
1	5.4	-	-	-
2	5.66	-	-	-
3	-	8.213	-	-
4	-	8.213	-	-
5	-	-	4.5	-
6	-	-	-	3.76

Note 2: The above information was declared by manufacturer.

<For 2.4GHz Band>

For IEEE 802.11b/g/n mode (2TX/2RX)

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz Band>

For IEEE 802.11a/n/ac mode (2TX/2RX)

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

Port 1 and Port 2 could transmit/receive simultaneously.

<Bluetooth>

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

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

gj,k =(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}] => 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / N_{ANT}]

Where ;

2.4G G1 = 5.4 ; G2 = 5.66

5G G1 = 8.213 ; G2 = 8.213

2.4G DG = 8.54 dBi

5 GHz U-NII-1 DG = 11.223 dBi

5 GHz U-NII-3 DG = 11.223 dBi

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.96	0.18	2.065m	1k
802.11ac VHT20	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.968	0.14	2.44m	1k
802.11ac VHT80	0.939	0.27	1.15m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE or DC 24V			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QDART-Connectivity1.0-00048、QRCT V3.0.264.0、DOS(V6.1.7601)			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Lucas Huang	22.8~23.4 / 62~64	Feb. 21, 2022~ Mar. 23, 2022
Radiated below 1GHz	03CH04-CB	Ken Yeh	24.5~25.6 / 56~59	Feb. 15, 2022~ Apr. 07, 2022
Radiated above 1GHz	03CH03-CB	Ken Yeh	23.5~24.6 / 55~59	
AC Conduction	CO01-CB	Joe Chu	21~22 / 51~52	Feb. 18, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17
5200MHz	17
5240MHz	16.5
5745MHz	26
5785MHz	26.5
5825MHz	26.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	16.5
5200MHz	16.5
5240MHz	16
5745MHz	26
5785MHz	26
5825MHz	26.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	15
5230MHz	16
5755MHz	25
5795MHz	25.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	14
5775MHz	21.5

Note: Evaluated VHT20/VHT40/VHT80 mode only, due to similar modulation. The power setting of HT20/HT40/ mode are the same or lower than VHT20/VHT40/VHT80.

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	PoE Mode
2	DC 24V Mode
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	CTX
1	EUT in Z axis + PoE – 2.4GHz
2	EUT in Z axis + DC 24V – 2.4GHz
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~4 will follow this same test mode.	
3	EUT in X axis + PoE – 5GHz
4	EUT in Y axis + PoE – Bluetooth
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis. So the measurement will follow this same test configuration.	
1	EUT in X axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA972347-06 for Co-location RF Exposure Evaluation.	

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

Support Unit	Brand	Model Number
PoE	CISCO	MA-INJ-5

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	
No.	**Equipment Name**
1	Wall-mounted rack*1
2	DC Terminal plug*1
3	Cable glands*2
4	Console cable (RJ-45 to DB-9)*1

2.5 Support Equipment

For AC Conduction:

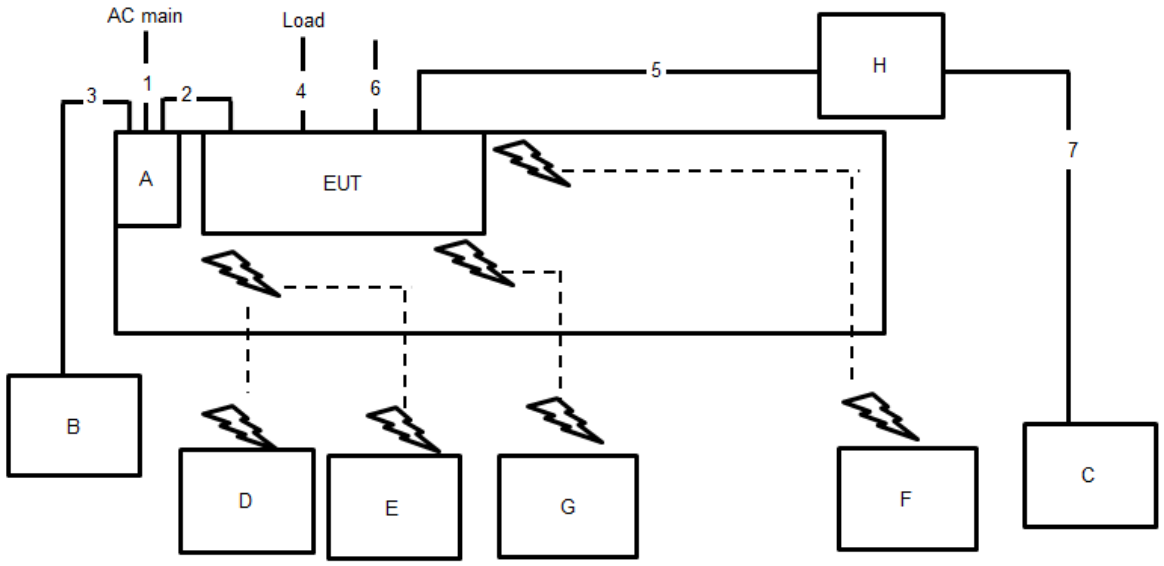
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	CISCO	MA-INJ-5	N/A
B	PoE NB	DELL	E6430	N/A
C	LAN NB	DELL	E6430	N/A
D	2.4G NB	DELL	E6430	N/A
E	5G NB	DELL	E6430	N/A
F	Smart phone	Samsung	Galaxy J2	N/A
G	GPS Simulator	WELNAVIGATE	GS-100	N/A
H	Device	Edgecore	OAP-100	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE	CISCO	MA-INJ-5	N/A

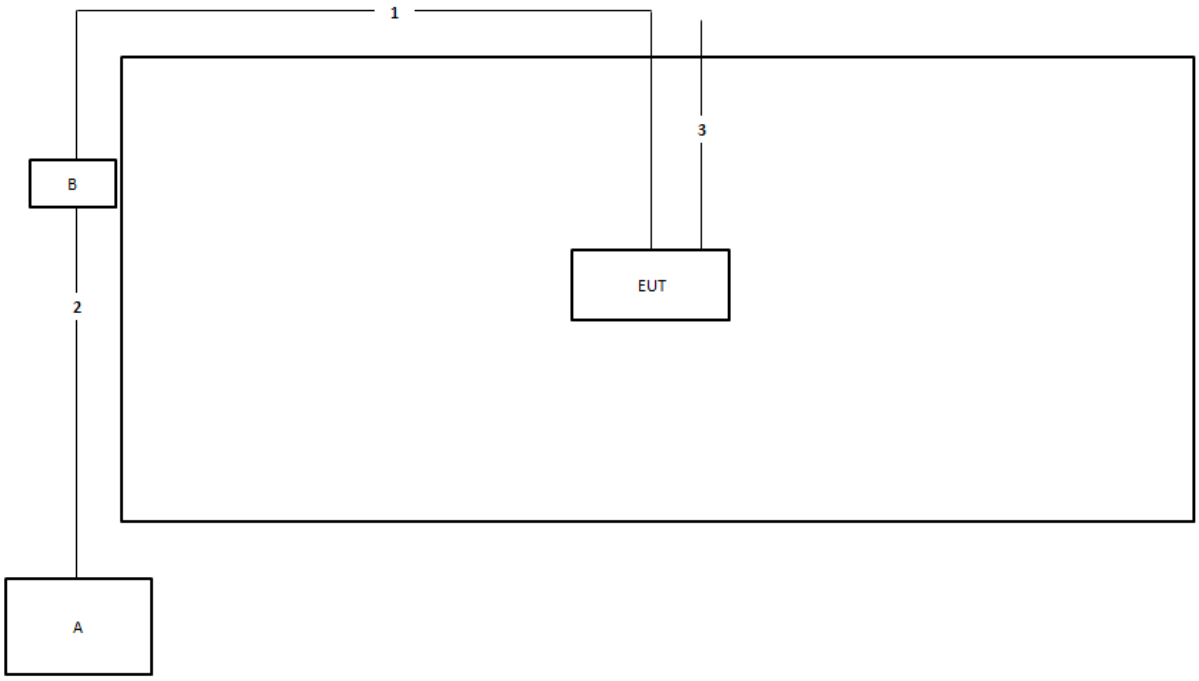
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



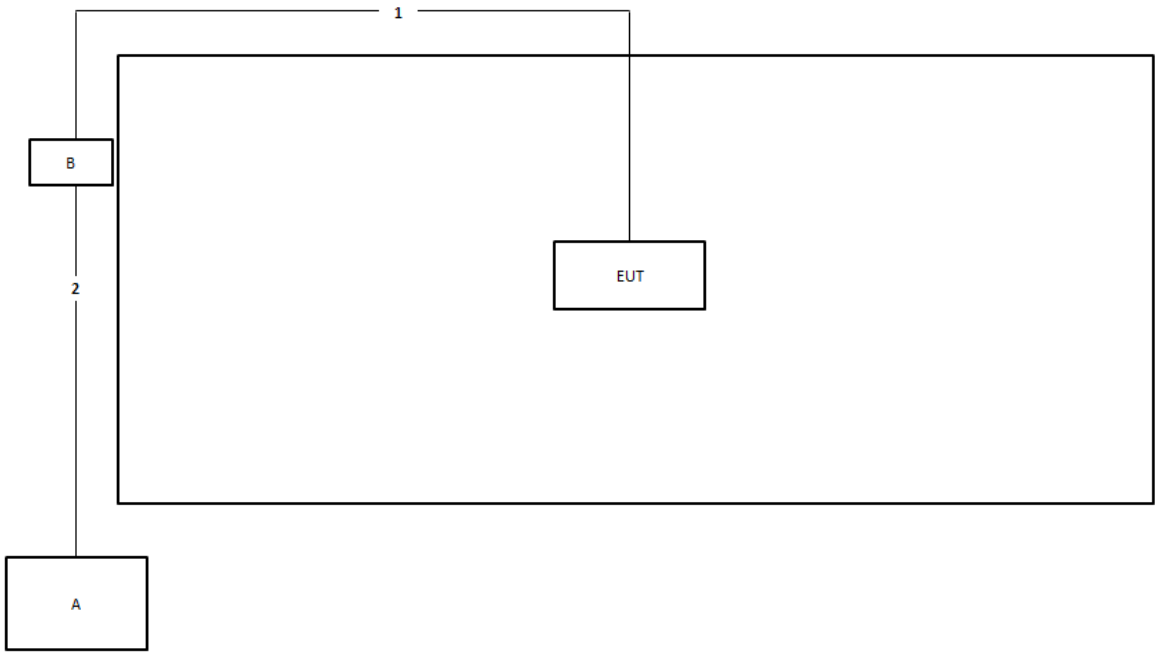
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	3m
3	RJ-45 cable	No	10m
4	Console cable	No	1.8m
5	RJ-45 cable	No	10m
6	Ground cable	No	1.8m
7	RJ-45 cable	No	1m
1	Power cable	No	1.8m

Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

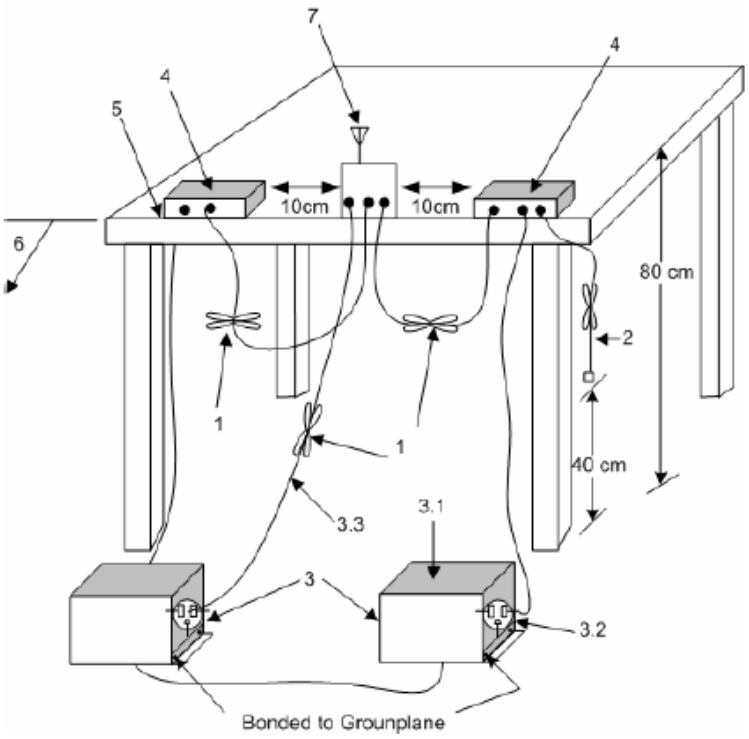
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

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.
☐	For the 5.85-5.895 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

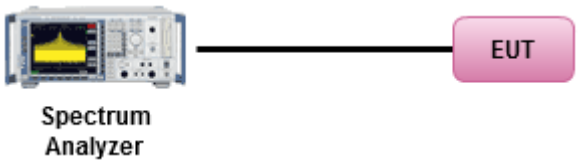
Refer a test equipment and calibration data table in this test report.

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.
Maximum EIRP Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the

	lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

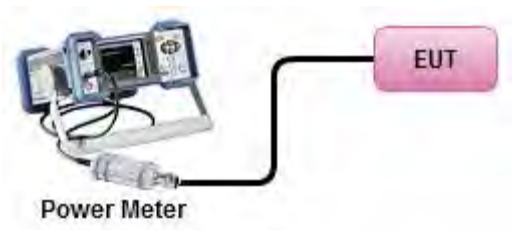
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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.
EIRP Power Spectral Density Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
	▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for 0° ≤ 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.

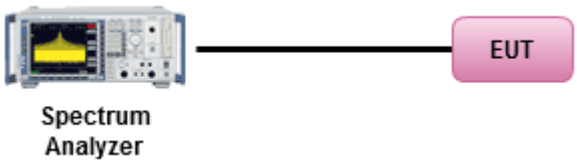
3.4.3 Test Procedures

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])	

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

3.4.4 Test Setup

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

3.5.2 Measuring Instruments

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

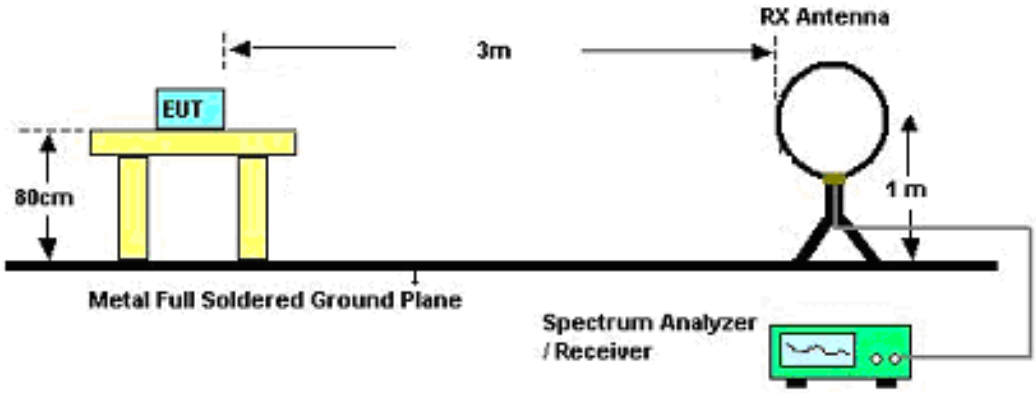
3.5.3 Test Procedures

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

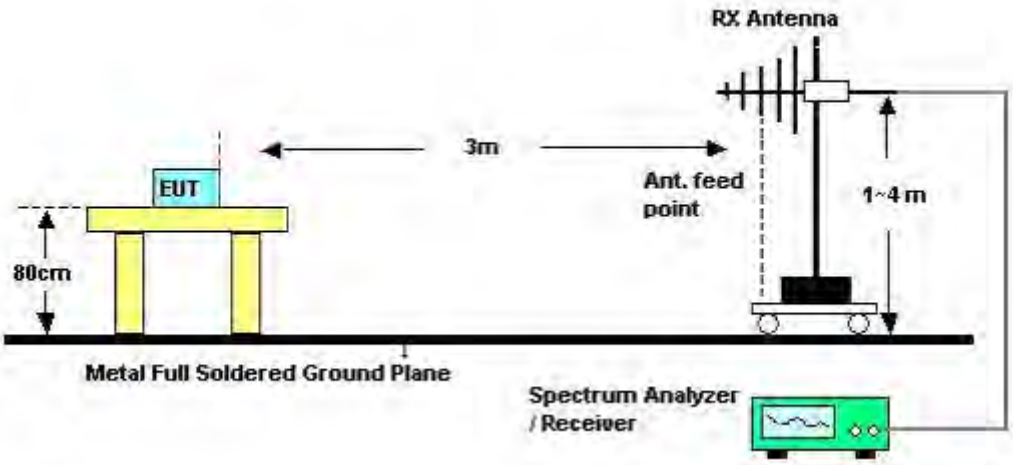
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

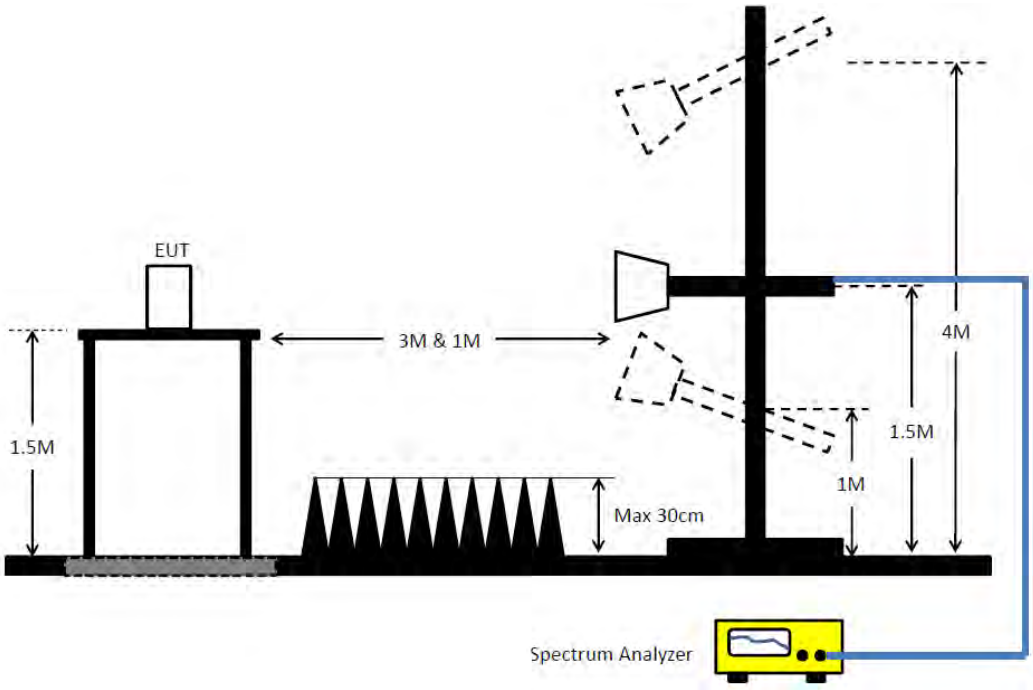
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 08, 2021	Aug. 07, 2022	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 09, 2021	Oct. 08, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Dec. 16, 2021	Dec. 15, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Horn Antenna	ETS・Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

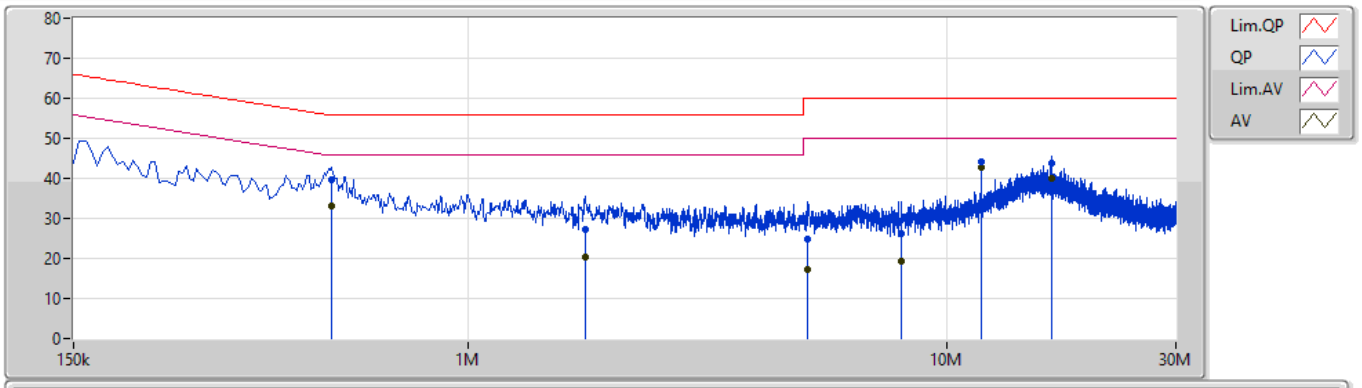
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	11.76M	42.68	50.00	-7.32	Line

Mode 1

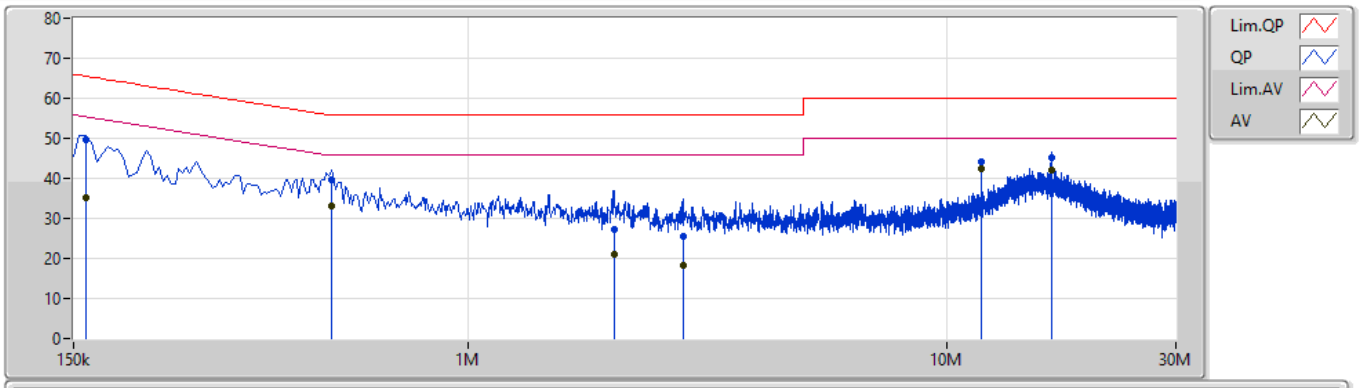
18/02/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	519k	39.60	56.00	-16.40	9.98	Line	-	29.62	0.05	0.04	9.89
AV	519k	33.02	46.00	-12.98	9.98	Line	-	23.04	0.05	0.04	9.89
QP	1.757M	27.15	56.00	-28.85	10.03	Line	-	17.12	0.08	0.06	9.89
AV	1.757M	20.50	46.00	-25.50	10.03	Line	-	10.47	0.08	0.06	9.89
QP	5.105M	24.80	60.00	-35.20	10.18	Line	-	14.62	0.15	0.13	9.90
AV	5.105M	17.14	50.00	-32.86	10.18	Line	-	6.96	0.15	0.13	9.90
QP	7.998M	26.17	60.00	-33.83	10.26	Line	-	15.91	0.20	0.15	9.91
AV	7.998M	19.27	50.00	-30.73	10.26	Line	-	9.01	0.20	0.15	9.91
QP	11.76M	44.23	60.00	-15.77	10.32	Line	-	33.91	0.24	0.16	9.92
AV	11.76M	42.68	50.00	-7.32	10.32	Line	"Worst"	32.36	0.24	0.16	9.92
QP	16.467M	43.70	60.00	-16.30	10.43	Line	-	33.27	0.29	0.19	9.95
AV	16.467M	40.07	50.00	-9.93	10.43	Line	-	29.64	0.29	0.19	9.95

Mode 1

18/02/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	49.58	65.52	-15.94	9.96	Neutral	-	39.62	0.03	0.04	9.89
AV	159k	35.06	55.52	-20.46	9.96	Neutral	-	25.10	0.03	0.04	9.89
QP	519k	39.52	56.00	-16.48	9.97	Neutral	-	29.55	0.04	0.04	9.89
AV	519k	33.16	46.00	-12.84	9.97	Neutral	-	23.19	0.04	0.04	9.89
QP	2.013M	27.31	56.00	-28.69	10.03	Neutral	-	17.28	0.07	0.07	9.89
AV	2.013M	21.12	46.00	-24.88	10.03	Neutral	-	11.09	0.07	0.07	9.89
QP	2.805M	25.60	56.00	-30.40	10.06	Neutral	-	15.54	0.08	0.09	9.89
AV	2.805M	18.29	46.00	-27.71	10.06	Neutral	-	8.23	0.08	0.09	9.89
QP	11.76M	44.09	60.00	-15.91	10.30	Neutral	-	33.79	0.22	0.16	9.92
AV	11.76M	42.51	50.00	-7.49	10.30	Neutral	"Worst"	32.21	0.22	0.16	9.92
QP	16.463M	45.14	60.00	-14.86	10.40	Neutral	-	34.74	0.26	0.19	9.95
AV	16.463M	42.08	50.00	-7.92	10.40	Neutral	-	31.68	0.26	0.19	9.95

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.38M	16.462M	16M5D1D	19.08M	16.432M
802.11ac VHT20_Nss1,(MCS0)_2TX	20.25M	17.631M	17M6D1D	20.19M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	39.6M	36.042M	36M0D1D	39.36M	35.982M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.4M	76.042M	76M0D1D	83.28M	75.922M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	18.951M	19M0D1D	16.29M	17.001M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.58M	18.891M	18M9D1D	17.52M	18.111M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.28M	37.841M	37M8D1D	34.98M	37.121M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.96M	76.042M	76M0D1D	75.96M	76.042M

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

Result

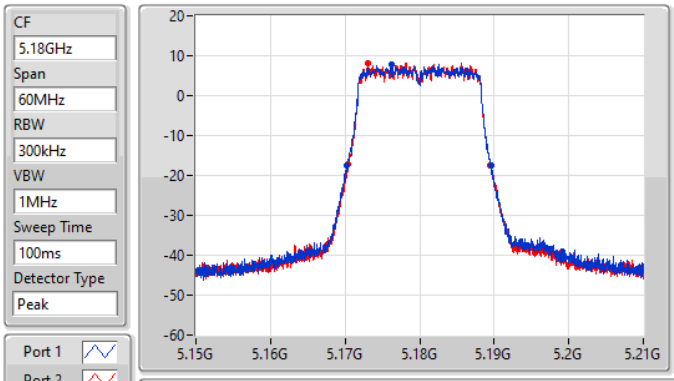
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.32M	16.462M	19.08M	16.432M
5200MHz	Pass	Inf	19.32M	16.462M	19.08M	16.432M
5240MHz	Pass	Inf	19.38M	16.432M	19.11M	16.432M
5745MHz	Pass	500k	16.32M	18.951M	16.32M	17.751M
5785MHz	Pass	500k	16.32M	17.751M	16.29M	17.001M
5825MHz	Pass	500k	16.29M	18.531M	16.32M	17.241M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.25M	17.601M	20.25M	17.601M
5200MHz	Pass	Inf	20.25M	17.631M	20.19M	17.631M
5240MHz	Pass	Inf	20.19M	17.631M	20.19M	17.631M
5745MHz	Pass	500k	17.55M	18.891M	17.58M	18.621M
5785MHz	Pass	500k	17.58M	18.471M	17.58M	18.111M
5825MHz	Pass	500k	17.55M	18.861M	17.52M	18.261M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.42M	36.042M	39.54M	36.042M
5230MHz	Pass	Inf	39.6M	36.042M	39.36M	35.982M
5755MHz	Pass	500k	35.28M	37.241M	34.98M	37.121M
5795MHz	Pass	500k	35.16M	37.841M	35.04M	37.361M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.4M	76.042M	83.28M	75.922M
5775MHz	Pass	500k	75.96M	76.042M	75.96M	76.042M

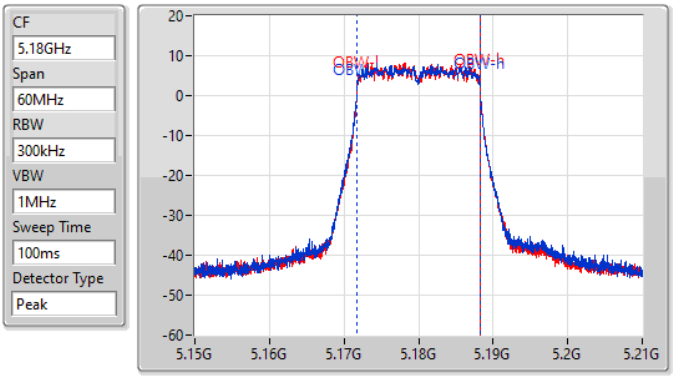
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX EBW

5180MHz

23/03/2022



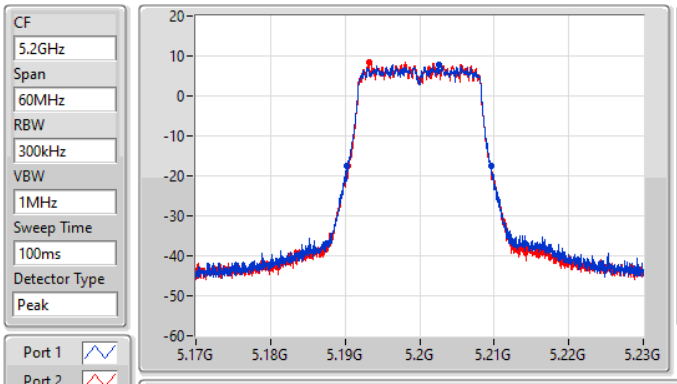


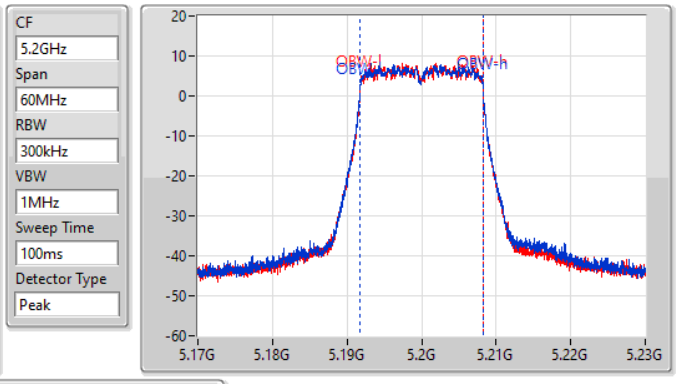
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.32M	5.17025G	5.18957G	16.462M	5.1717540G	5.188216G	Inf	1
19.08M	5.17043G	5.18951G	16.432M	5.1717840G	5.188216G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5200MHz

23/03/2022





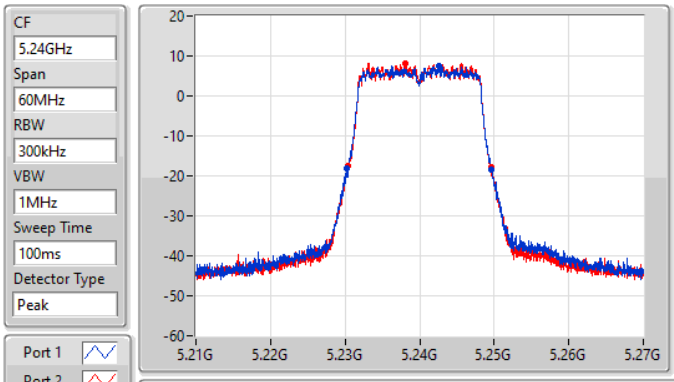
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.32M	5.19028G	5.2096G	16.462M	5.1917540G	5.208216G	Inf	1
19.08M	5.19046G	5.20954G	16.432M	5.1917840G	5.208216G	Inf	2

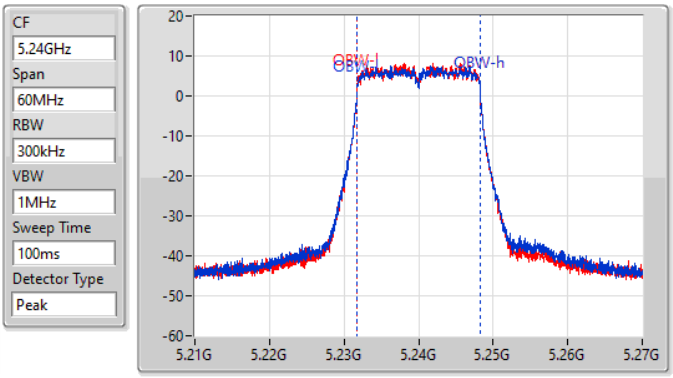
802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

23/03/2022





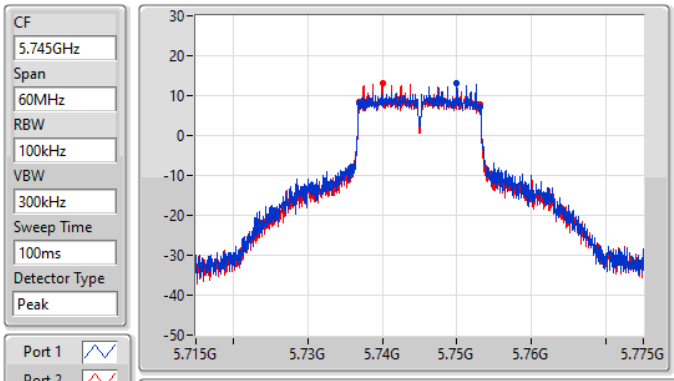
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.38M	5.23025G	5.24963G	16.432M	5.231784G	5.248216G	Inf	1
19.11M	5.23046G	5.24957G	16.432M	5.231784G	5.248216G	Inf	2

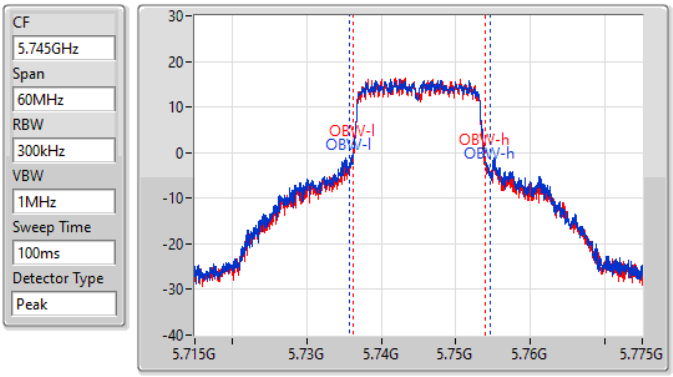
802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

23/03/2022



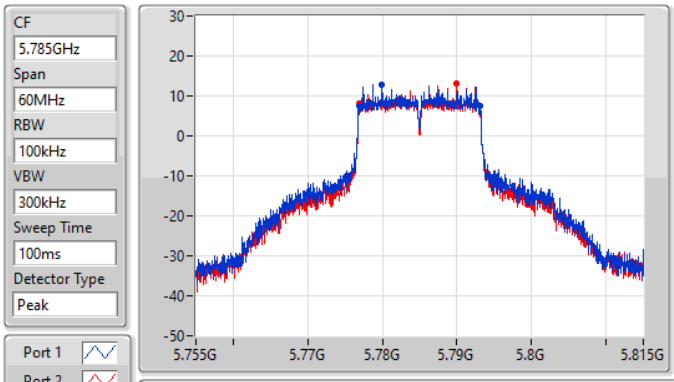


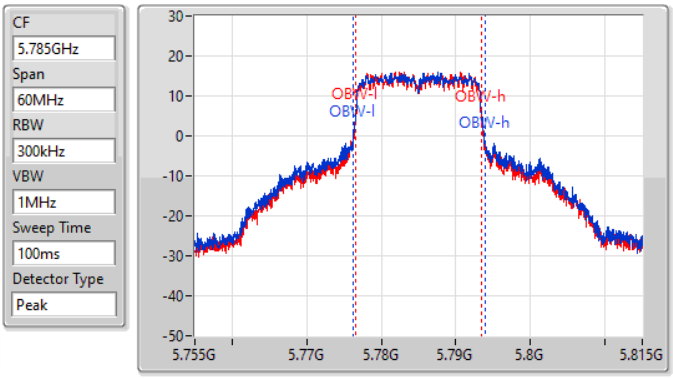
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.73684G	5.75316G	18.951M	5.735645G	5.754595G	500k	1
16.32M	5.73684G	5.75316G	17.751M	5.736184G	5.753936G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5785MHz

23/03/2022



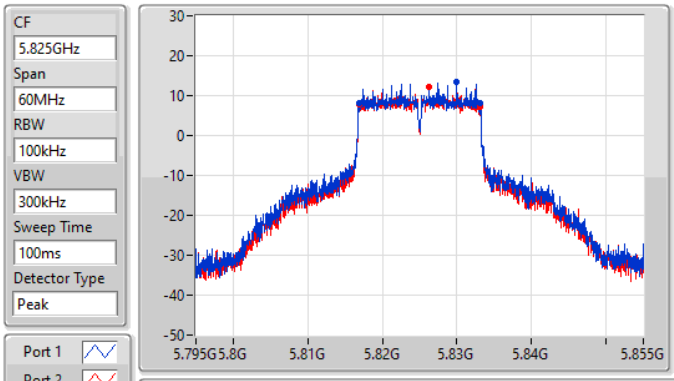


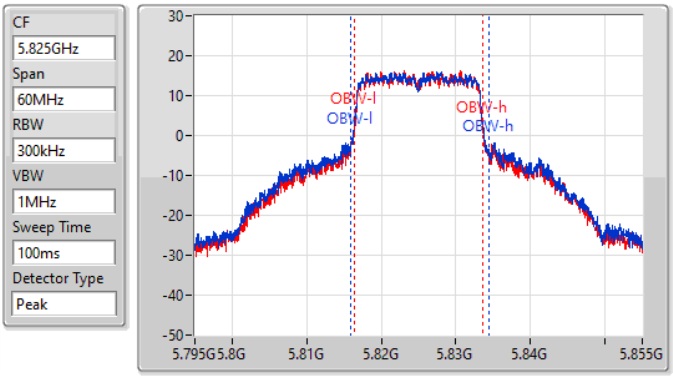
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77684G	5.79316G	17.751M	5.776214G	5.793966G	500k	1
16.29M	5.77684G	5.79313G	17.001M	5.776514G	5.793516G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5825MHz

23/03/2022



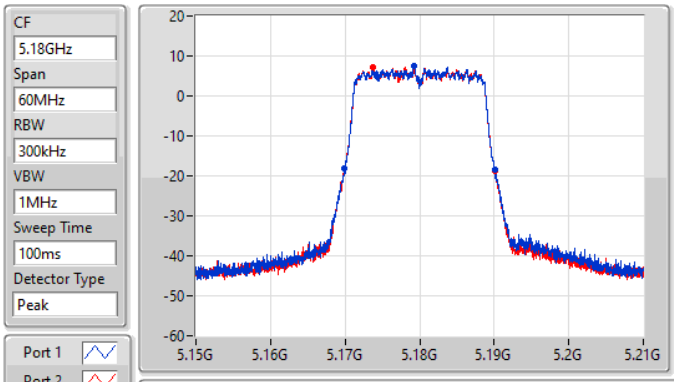


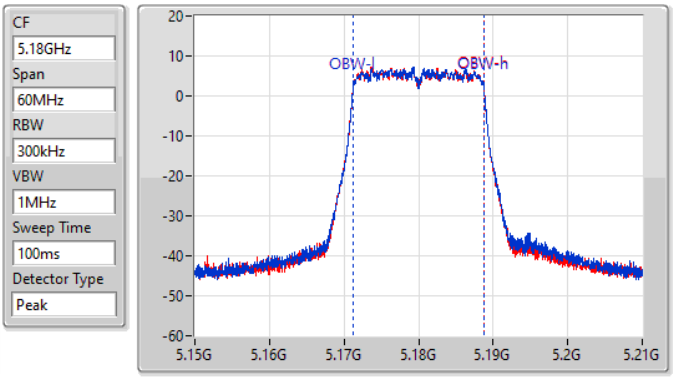
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.81684G	5.83313G	18.531M	5.815885G	5.834415G	500k	1
16.32M	5.81684G	5.83316G	17.241M	5.816424G	5.833666G	500k	2

ac20_Nss1,(MCS0)_2TX EBW

5180MHz

23/03/2022



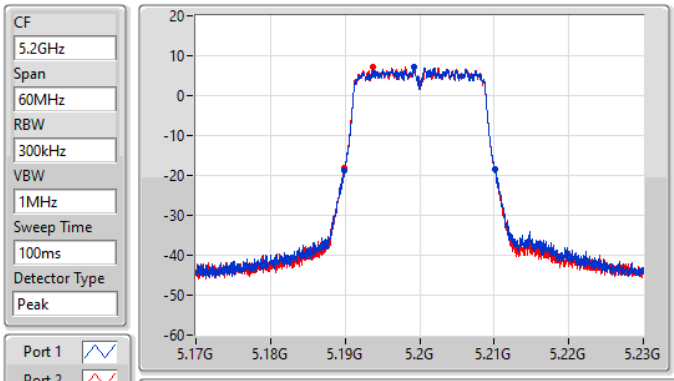


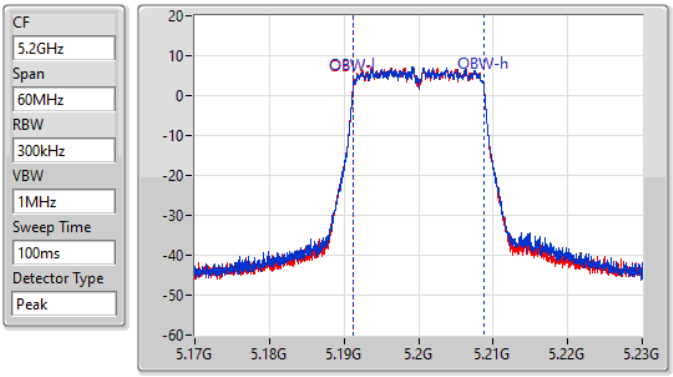
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.25M	5.16986G	5.19011G	17.601M	5.171184G	5.188786G	Inf	1
20.25M	5.16989G	5.19014G	17.601M	5.171184G	5.188786G	Inf	2

ac20_Nss1,(MCS0)_2TX EBW

5200MHz

23/03/2022



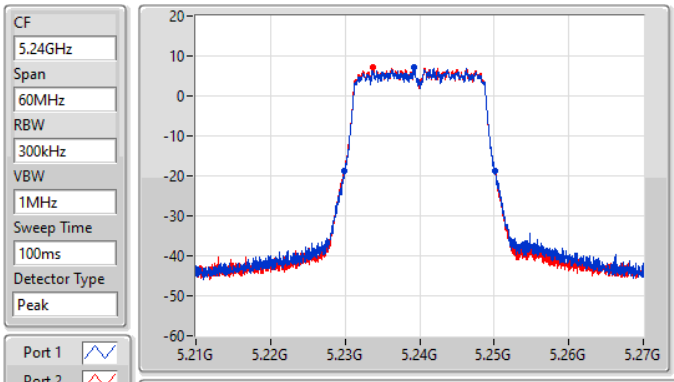


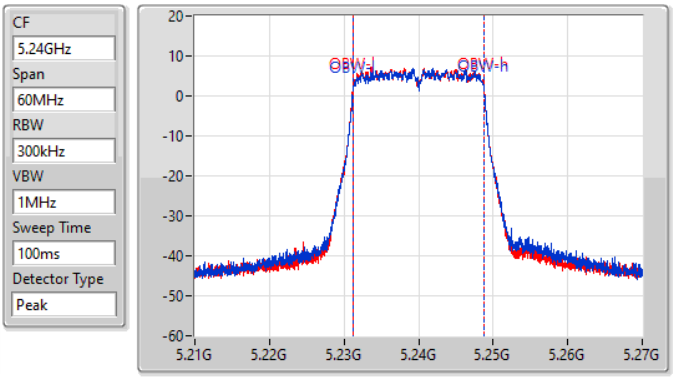
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.25M	5.18992G	5.21017G	17.631M	5.191184G	5.208816G	Inf	1
20.19M	5.18992G	5.21011G	17.631M	5.191184G	5.208816G	Inf	2

ac20_Nss1,(MCS0)_2TX EBW

5240MHz

23/03/2022



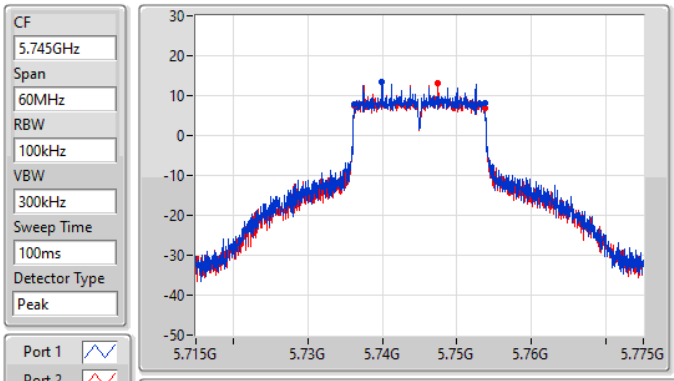


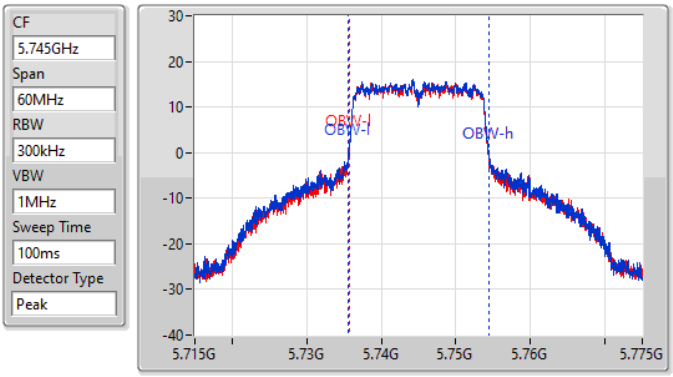
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.19M	5.22995G	5.25014G	17.631M	5.231184G	5.248816G	Inf	1
20.19M	5.22989G	5.25008G	17.631M	5.231184G	5.248816G	Inf	2

ac20_Nss1,(MCS0)_2TX EBW

5745MHz

23/03/2022



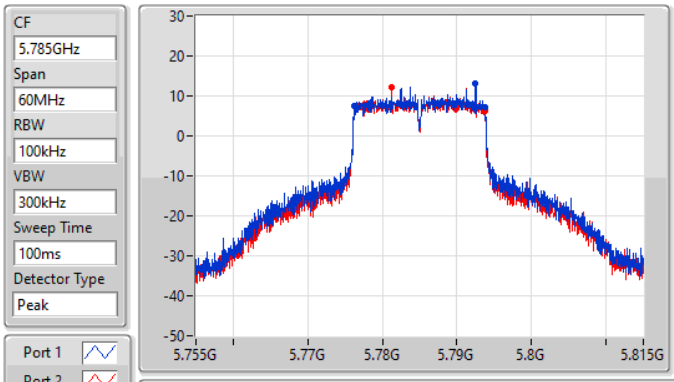


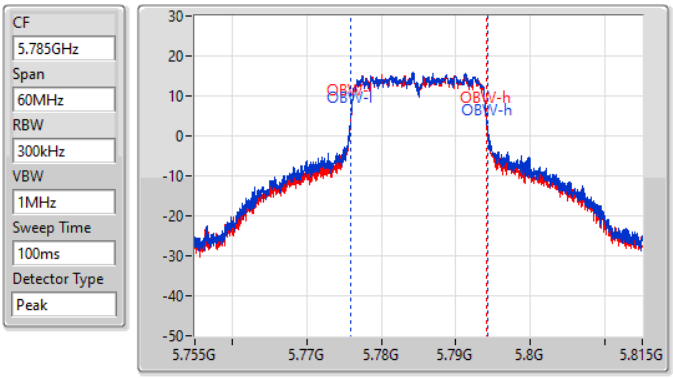
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73621G	5.75376G	18.891M	5.735585G	5.754475G	500k	1
17.58M	5.73621G	5.75379G	18.621M	5.735765G	5.754385G	500k	2

ac20_Nss1,(MCS0)_2TX EBW

5785MHz

23/03/2022



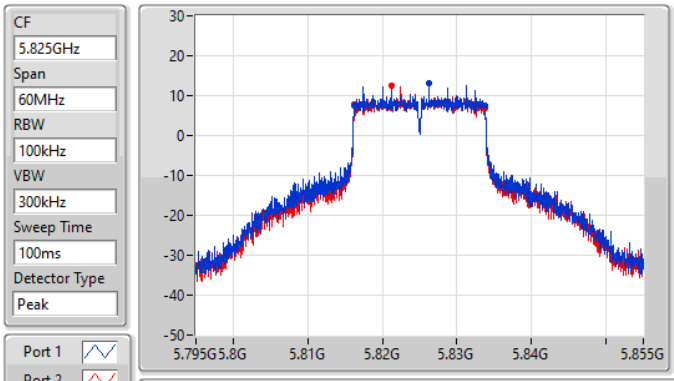


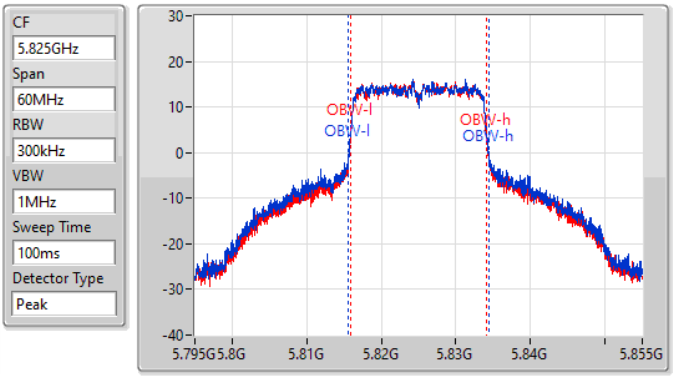
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77621G	5.79379G	18.471M	5.775825G	5.794295G	500k	1
17.58M	5.77621G	5.79379G	18.111M	5.775975G	5.794085G	500k	2

ac20_Nss1,(MCS0)_2TX EBW

5825MHz

23/03/2022



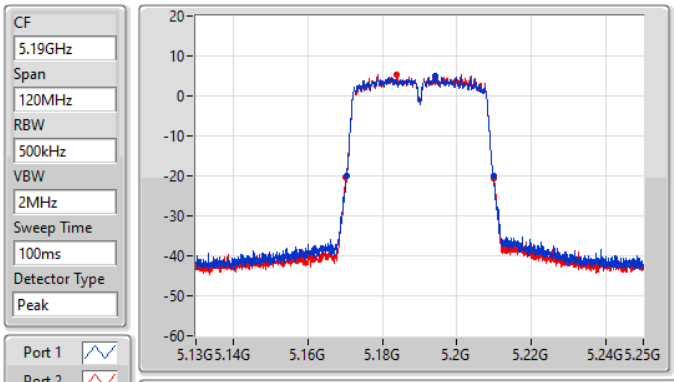


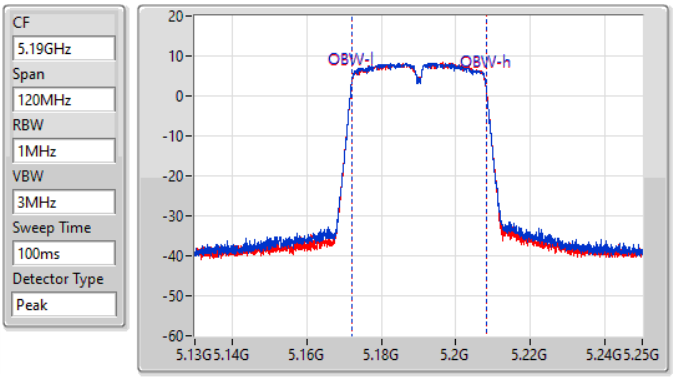
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81621G	5.83376G	18.861M	5.815615G	5.834475G	500k	1
17.52M	5.81624G	5.83376G	18.261M	5.815915G	5.834175G	500k	2

ac40_Nss1,(MCS0)_2TX EBW

5190MHz

23/03/2022



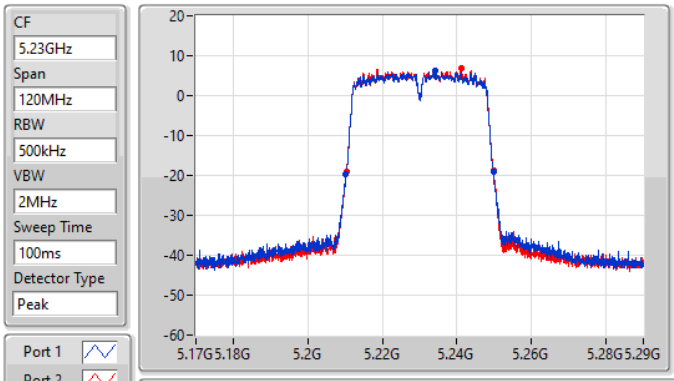


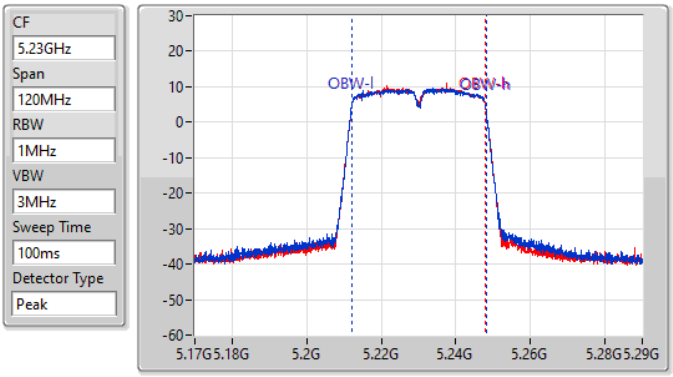
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.42M	5.17032G	5.20974G	36.042M	5.172009G	5.208051G	Inf	1
39.54M	5.17026G	5.2098G	36.042M	5.172009G	5.208051G	Inf	2

ac40_Nss1,(MCS0)_2TX EBW

5230MHz

23/03/2022



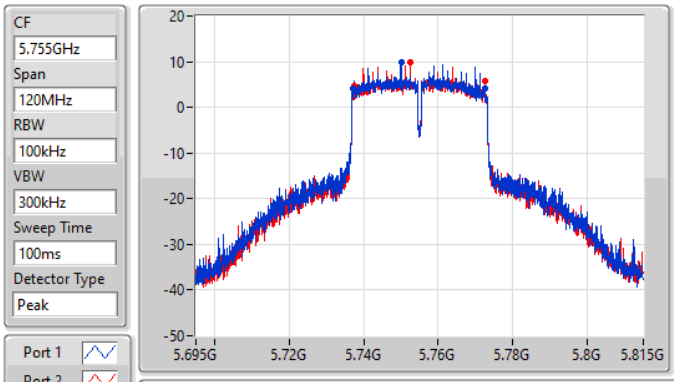


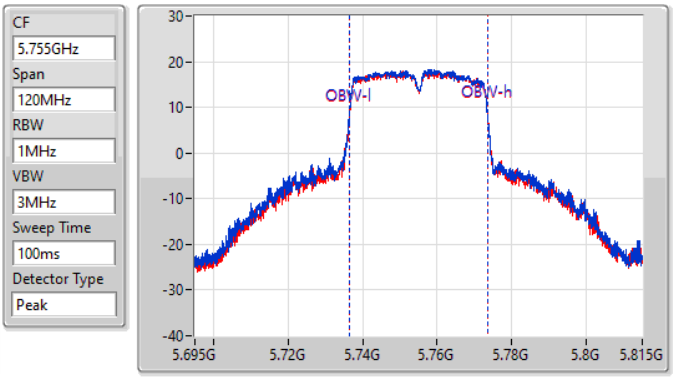
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.6M	5.2102G	5.2498G	36.042M	5.212009G	5.248051G	Inf	1
39.36M	5.21044G	5.2498G	35.982M	5.212009G	5.247991G	Inf	2

ac40_Nss1,(MCS0)_2TX EBW

5755MHz

23/03/2022



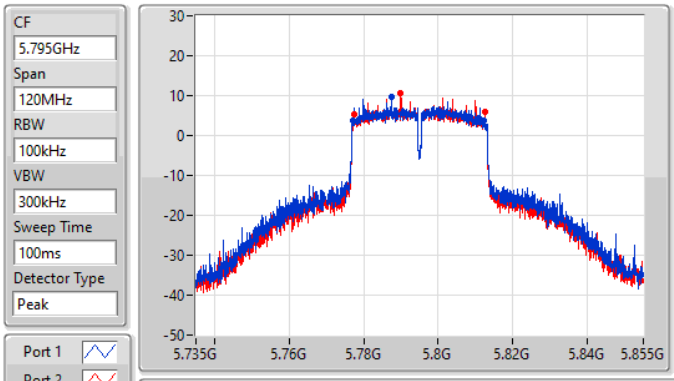


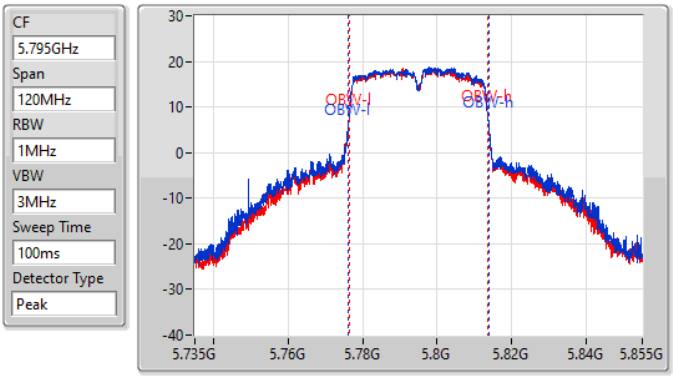
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.28M	5.73724G	5.77252G	37.241M	5.736289G	5.773531G	500k	1
34.98M	5.73748G	5.77246G	37.121M	5.736409G	5.773531G	500k	2

ac40_Nss1,(MCS0)_2TX EBW

5795MHz

23/03/2022



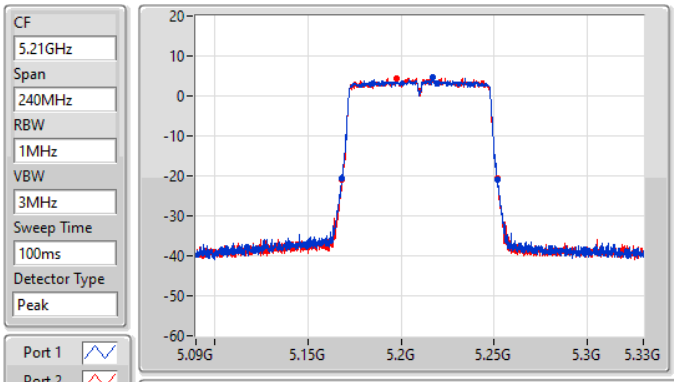


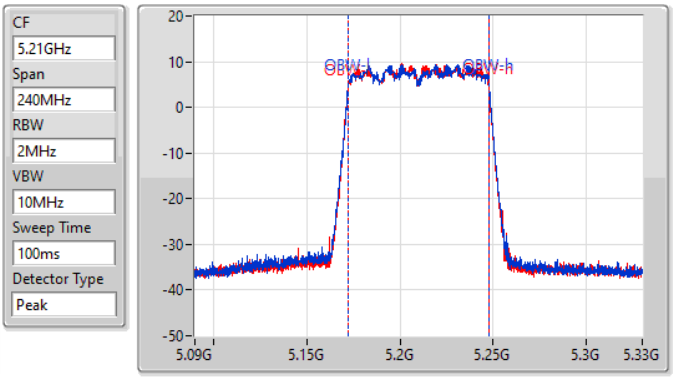
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.16M	5.77712G	5.81228G	37.841M	5.77599G	5.813831G	500k	1
35.04M	5.77742G	5.81246G	37.361M	5.776289G	5.813651G	500k	2

ac80_Nss1,(MCS0)_2TX EBW

5210MHz

23/03/2022



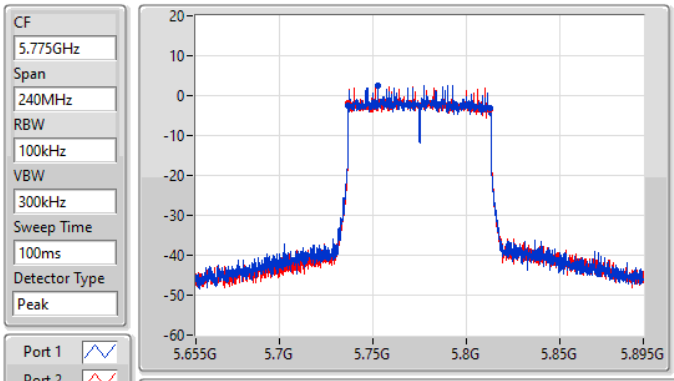


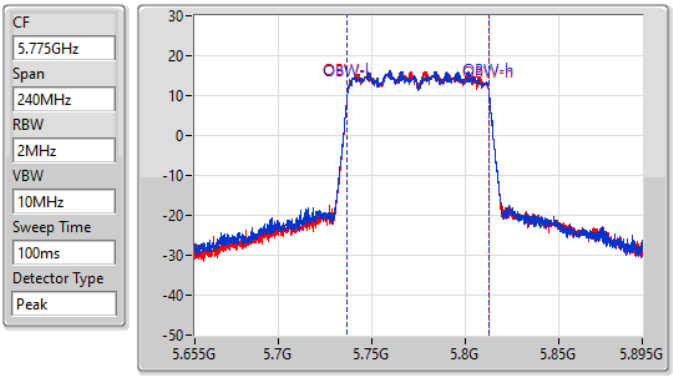
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.4M	5.16824G	5.25164G	76.042M	5.171979G	5.248021G	Inf	1
83.28M	5.16836G	5.25164G	75.922M	5.171979G	5.247901G	Inf	2

ac80_Nss1,(MCS0)_2TX EBW

5775MHz

23/03/2022





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.96M	5.73684G	5.8128G	76.042M	5.736859G	5.812901G	500k	1
75.96M	5.73684G	5.8128G	76.042M	5.736859G	5.812901G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	19.24	0.08395
802.11ac VHT20_Nss1,(MCS0)_2TX	18.90	0.07762
802.11ac VHT40_Nss1,(MCS0)_2TX	18.78	0.07551
802.11ac VHT80_Nss1,(MCS0)_2TX	16.56	0.04529
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.69	0.58749
802.11ac VHT20_Nss1,(MCS0)_2TX	27.44	0.55463
802.11ac VHT40_Nss1,(MCS0)_2TX	27.41	0.55081
802.11ac VHT80_Nss1,(MCS0)_2TX	22.95	0.19724

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.213	16.31	16.15	19.24	27.79
5200MHz	Pass	8.213	16.21	16.24	19.24	27.79
5240MHz	Pass	8.213	16.05	16.16	19.12	27.79
5745MHz	Pass	8.213	24.60	24.29	27.46	27.79
5785MHz	Pass	8.213	24.86	24.50	27.69	27.79
5825MHz	Pass	8.213	24.50	24.22	27.37	27.79
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.213	15.88	15.83	18.87	27.79
5200MHz	Pass	8.213	15.87	15.90	18.90	27.79
5240MHz	Pass	8.213	15.61	15.97	18.80	27.79
5745MHz	Pass	8.213	24.65	24.20	27.44	27.79
5785MHz	Pass	8.213	24.51	24.19	27.36	27.79
5825MHz	Pass	8.213	24.53	24.26	27.41	27.79
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.213	14.48	14.49	17.50	27.79
5230MHz	Pass	8.213	15.72	15.82	18.78	27.79
5755MHz	Pass	8.213	24.17	23.89	27.04	27.79
5795MHz	Pass	8.213	24.60	24.19	27.41	27.79
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.213	13.62	13.47	16.56	27.79
5775MHz	Pass	8.213	19.91	19.96	22.95	27.79

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

Mode	Result	Gain-Elevation 30° (dBi)	Total Power (dBm)	EIRP-Elevation 30° (dBm)	EIRP Limit- Elevation 30° (dBm)
802.11a_Nss1,(6Mbps)_2TX_5180MHz	Pass	1.72	19.24	20.96	21.00
802.11a_Nss1,(6Mbps)_2TX_5200MHz	Pass	1.72	19.24	20.96	21.00
802.11a_Nss1,(6Mbps)_2TX_5240MHz	Pass	1.72	19.12	20.84	21.00
802.11ac VHT20_Nss1,(MCS0)_2TX_5180MHz	Pass	1.72	18.87	20.59	21.00
802.11ac VHT20_Nss1,(MCS0)_2TX_5200MHz	Pass	1.72	18.90	20.62	21.00
802.11ac VHT20_Nss1,(MCS0)_2TX_5240MHz	Pass	1.72	18.80	20.52	21.00
802.11ac VHT40_Nss1,(MCS0)_2TX_5190MHz	Pass	1.72	17.50	19.22	21.00
802.11ac VHT40_Nss1,(MCS0)_2TX_5230MHz	Pass	1.72	18.78	20.50	21.00
802.11ac VHT80_Nss1,(MCS0)_2TX_5210MHz	Pass	1.72	16.56	18.28	21.00

SPORTON International Inc.
No.8, Lane 724, Bo-ai Rd., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.
Tel: 886-3-656-9065 / Fax: 886-3-656-9085 / www.sporton.com.tw

Elevation angle above 30 degree Max Gain(dBi)

Freq. (MHz)	5250.00	1-72
Elevation angle(Degree)	Gain(dBi)	Elevation Angle Define
180.00	5.32	Ref. (dB)
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178.00	5.32	
177.00	5.32	
176.00	5.32	
175.00	5.32	
174.00	5.32	
173.00	5.32	
172.00	5.32	
171.00	5.32	
170.00	5.32	
169.00	5.32	
168.00	5.32	
167.00	5.32	
166.00	5.32	
165.00	5.32	
164.00	5.32	
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158.00	5.32	
157.00	5.32	
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154.00	5.32	
153.00	5.32	
152.00	5.32	
151.00	5.32	
150.00	5.32	
149.00	5.32	
148.00	5.32	
147.00	5.32	
146.00	5.32	
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144.00	5.32	
143.00	5.32	
142.00	5.32	
141.00	5.32	
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137.00	5.32	
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6.00	5.32	
5.00	5.32	
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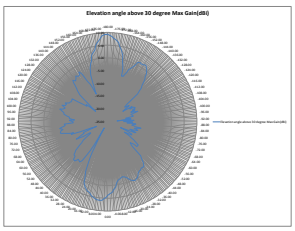
186.00	5.32	
185.00	5.32	
184.00	5.32	
183.00	5.32	
182.00	5.32	
181.00	5.32	
180.00	5.32	

Above 30 Degree

30 Degree

Above 30 Degree

30 Degree



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	6.48
802.11ac VHT20_Nss1,(MCS0)_2TX	5.71
802.11ac VHT40_Nss1,(MCS0)_2TX	2.83
802.11ac VHT80_Nss1,(MCS0)_2TX	-2.78
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.28
802.11ac VHT20_Nss1,(MCS0)_2TX	12.84
802.11ac VHT40_Nss1,(MCS0)_2TX	10.01
802.11ac VHT80_Nss1,(MCS0)_2TX	2.56

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

Result

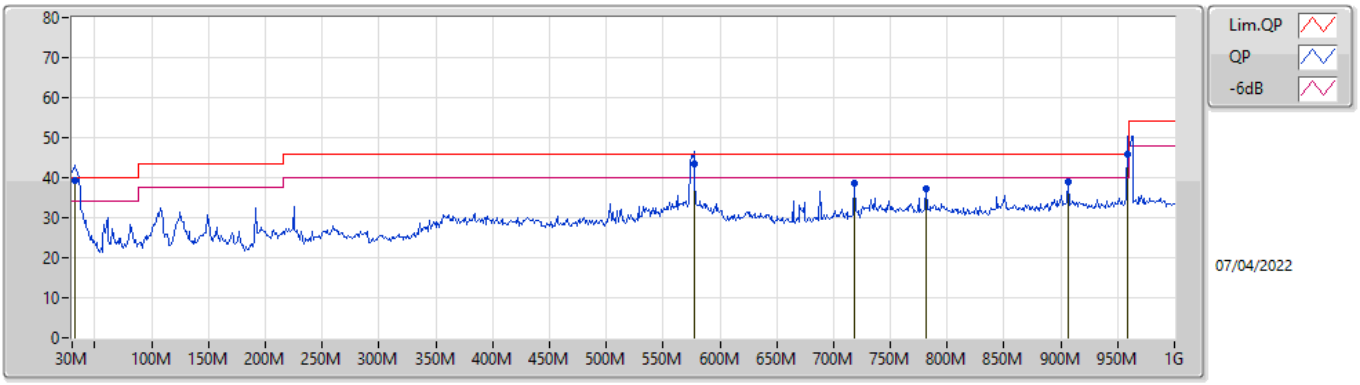
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	11.223	3.49	3.41	6.43	11.78
5200MHz	Pass	11.223	3.51	3.59	6.48	11.78
5240MHz	Pass	11.223	3.20	3.60	6.29	11.78
5745MHz	Pass	11.223	10.32	10.03	13.13	24.78
5785MHz	Pass	11.223	10.57	10.16	13.28	24.78
5825MHz	Pass	11.223	10.30	9.86	13.06	24.78
ac20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	11.223	2.82	2.68	5.71	11.78
5200MHz	Pass	11.223	2.76	2.72	5.68	11.78
5240MHz	Pass	11.223	2.59	2.66	5.54	11.78
5745MHz	Pass	11.223	10.11	9.72	12.84	24.78
5785MHz	Pass	11.223	9.91	9.61	12.65	24.78
5825MHz	Pass	11.223	9.77	9.68	12.67	24.78
ac40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	11.223	-1.32	-1.42	1.56	11.78
5230MHz	Pass	11.223	-0.23	-0.04	2.83	11.78
5755MHz	Pass	11.223	6.92	6.54	9.60	24.78
5795MHz	Pass	11.223	7.24	6.90	10.01	24.78
ac80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	11.223	-5.63	-5.61	-2.78	11.78
5775MHz	Pass	11.223	-0.31	-0.47	2.56	24.78

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;

Summary

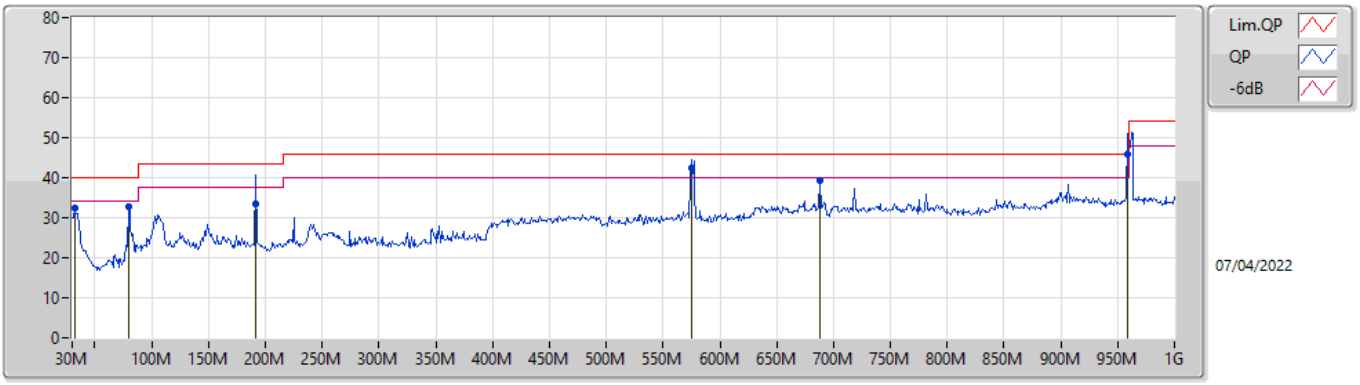
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	958.29M	45.95	46.00	-0.05	Horizontal

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	31.94M	39.25	40.00	-0.75	-8.04	3	Vertical	354	1.00	-	47.29	22.59	1.54	32.17
QP	577.08M	43.46	46.00	-2.54	-5.05	3	Vertical	131	1.00	-	48.51	24.76	3.10	32.91
PK	718.7M	38.79	46.00	-7.21	-4.19	3	Vertical	147	1.25	-	42.98	25.69	3.44	33.32
PK	781.75M	37.12	46.00	-8.88	-4.20	3	Vertical	250	1.25	-	41.32	25.75	3.56	33.51
PK	906.88M	39.10	46.00	-6.90	-2.15	3	Vertical	3	2.00	-	41.25	26.95	3.90	33.00
QP	958.29M	45.73	46.00	-0.27	-1.39	3	Vertical	234	1.00	"Worst"	47.12	27.01	3.90	32.30

Mode 3



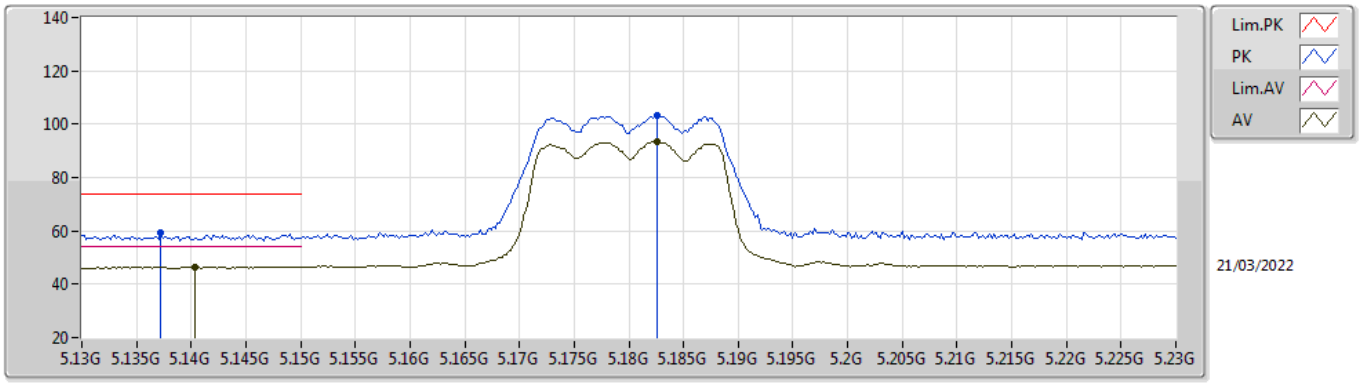
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	32.52	40.00	-7.48	-8.04	3	Horizontal	254	2.00	-	40.56	22.59	1.54	32.17
PK	79.47M	32.67	40.00	-7.33	-17.57	3	Horizontal	131	1.50	-	50.24	12.75	1.80	32.12
QP	191.99M	33.59	43.50	-9.91	-14.94	3	Horizontal	90	1.25	-	48.53	15.08	2.06	32.08
QP	575.14M	42.55	46.00	-3.45	-5.07	3	Horizontal	173	1.25	-	47.62	24.74	3.10	32.91
PK	687.66M	39.21	46.00	-6.79	-4.68	3	Horizontal	191	1.00	-	43.89	25.25	3.38	33.31
QP	958.29M	45.95	46.00	-0.05	-1.39	3	Horizontal	115	1.25	"Worst"	47.34	27.01	3.90	32.30

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.1496G	53.93	54.00	-0.07	3	Horizontal	-0	2.24	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

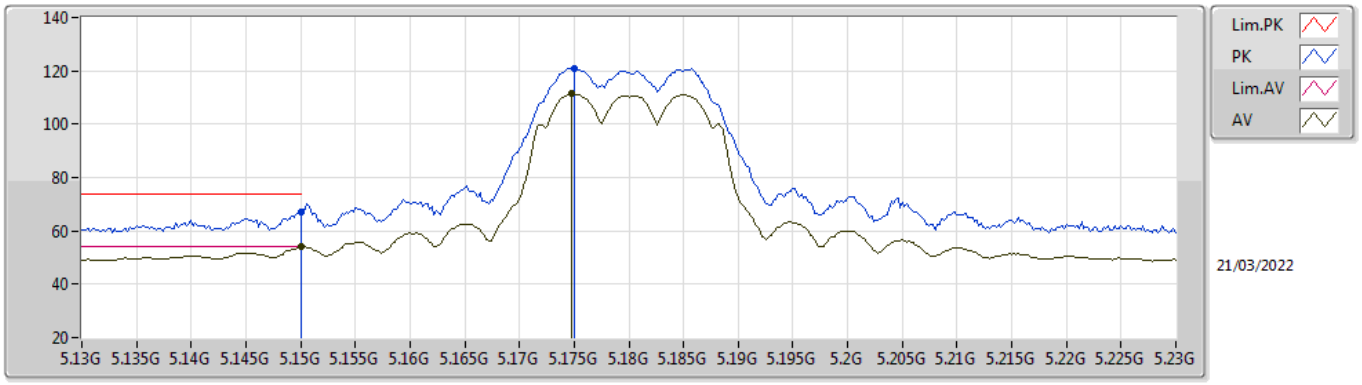


EUT X_2TX
Setting 20
03-C-E-2-10

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	5.1372G	59.07	74.00	-14.93	53.27	3	Vertical	245	1.12	-	33.97	7.17	35.34
AV	5.1404G	46.54	54.00	-7.46	40.73	3	Vertical	245	1.12	-	33.98	7.17	35.34
PK	5.1826G	103.52	Inf	-Inf	97.54	3	Vertical	245	1.12	-	34.13	7.19	35.34
AV	5.1826G	93.64	Inf	-Inf	87.66	3	Vertical	245	1.12	-	34.13	7.19	35.34

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

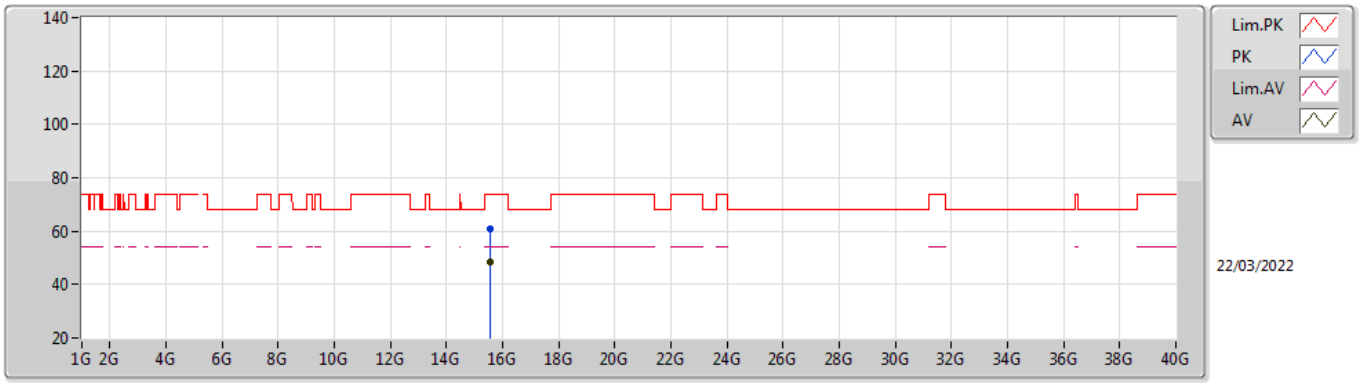


EUT X_2TX
Setting 20
03-C-E-2-10

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	67.26	74.00	-6.74	61.43	3	Horizontal	1	2.38	-	34.00	7.17	35.34
AV	5.15G	53.89	54.00	-0.11	48.06	3	Horizontal	1	2.38	-	34.00	7.17	35.34
PK	5.175G	121.09	Inf	-Inf	115.14	3	Horizontal	1	2.38	-	34.10	7.19	35.34
AV	5.1748G	111.30	Inf	-Inf	105.35	3	Horizontal	1	2.38	-	34.10	7.19	35.34

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

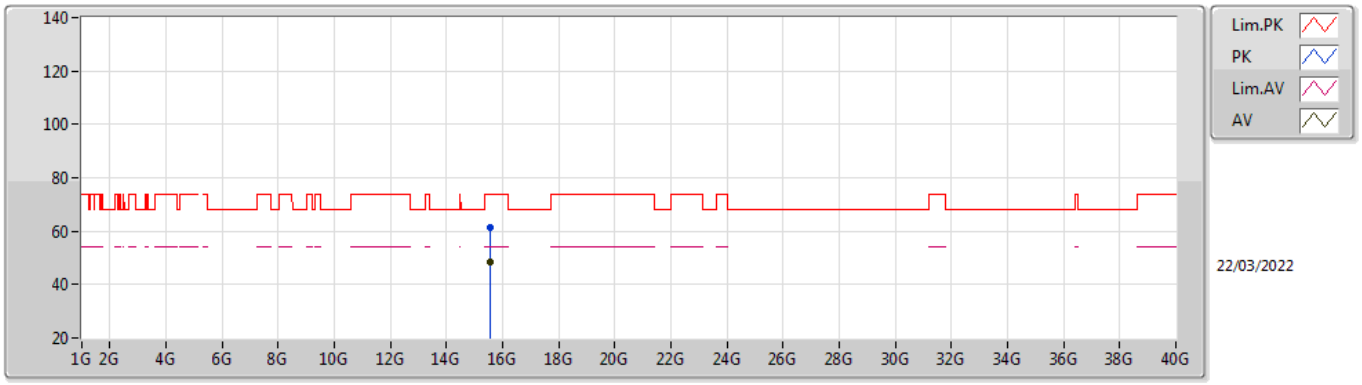


EUT X_2TX
Setting 20
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.53298G	61.02	74.00	-12.98	44.78	3	Vertical	85	1.57	-	38.47	13.17	35.40
AV	15.54762G	48.25	54.00	-5.75	32.12	3	Vertical	85	1.57	-	38.37	13.17	35.41

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

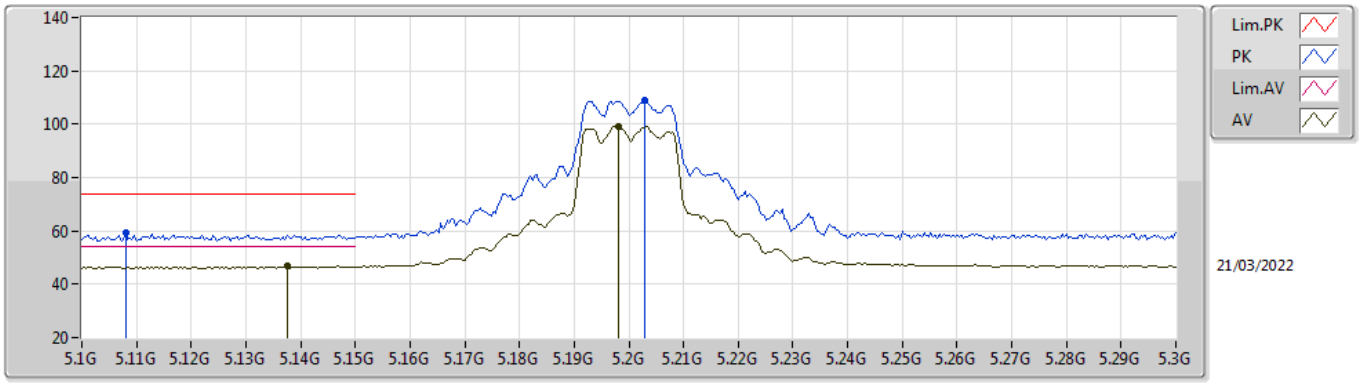


EUT X_2TX
Setting 20
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.54294G	61.20	74.00	-12.80	45.04	3	Horizontal	279	1.59	-	38.40	13.17	35.41
AV	15.5358G	48.30	54.00	-5.70	32.08	3	Horizontal	279	1.59	-	38.45	13.17	35.40

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

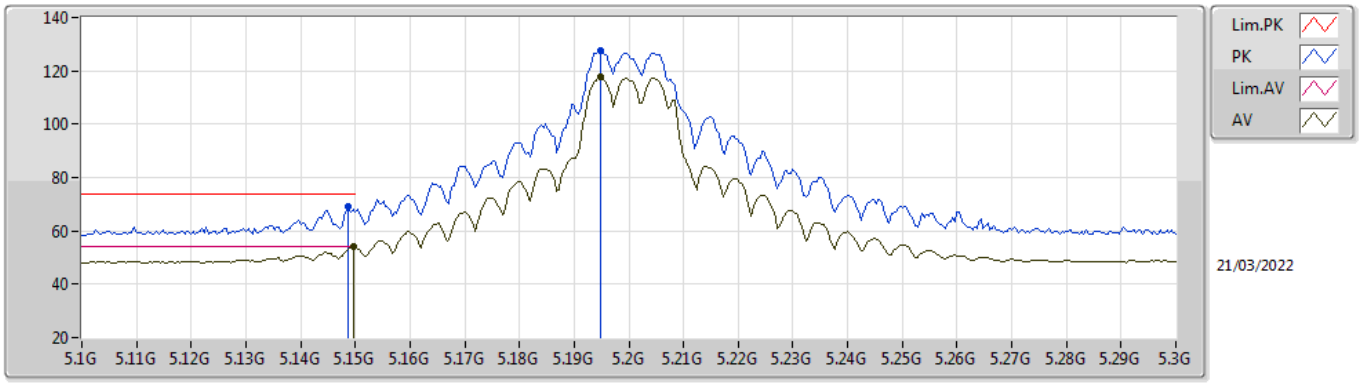


EUT X_2TX
Setting 26.5
03-C-E-2-10

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	5.108G	59.28	74.00	-14.72	53.54	3	Vertical	245	1.02	-	33.92	7.15	35.33
AV	5.1376G	46.71	54.00	-7.29	40.90	3	Vertical	245	1.02	-	33.98	7.17	35.34
PK	5.2028G	108.98	Inf	-Inf	102.91	3	Vertical	245	1.02	-	34.21	7.20	35.34
AV	5.198G	99.29	Inf	-Inf	93.24	3	Vertical	245	1.02	-	34.19	7.20	35.34

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

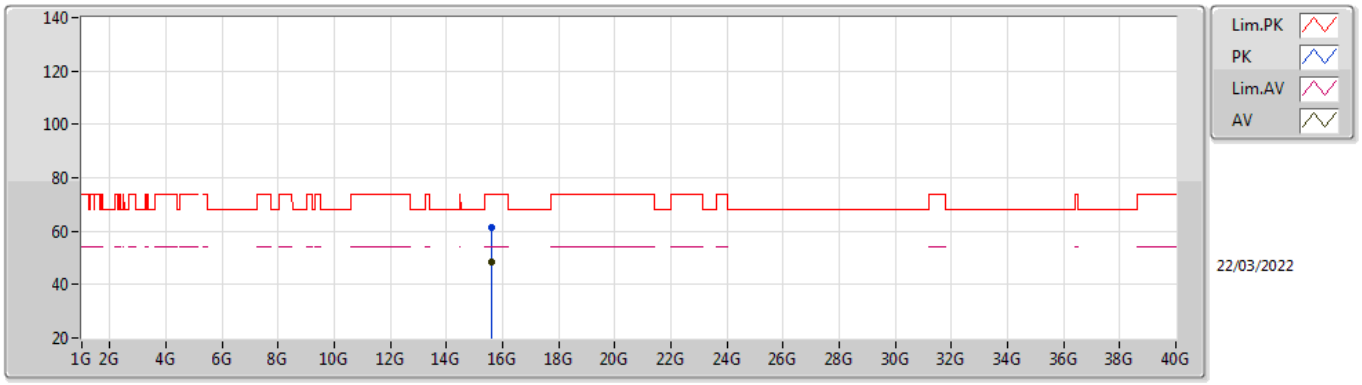


EUT X_2TX
Setting 26.5
03-C-E-2-10

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	5.1488G	69.26	74.00	-4.74	63.43	3	Horizontal	-0	2.24	-	34.00	7.17	35.34
AV	5.1496G	53.93	54.00	-0.07	48.10	3	Horizontal	-0	2.24	-	34.00	7.17	35.34
PK	5.1948G	127.42	Inf	-Inf	121.38	3	Horizontal	-0	2.24	-	34.18	7.20	35.34
AV	5.1948G	117.53	Inf	-Inf	111.49	3	Horizontal	-0	2.24	-	34.18	7.20	35.34

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

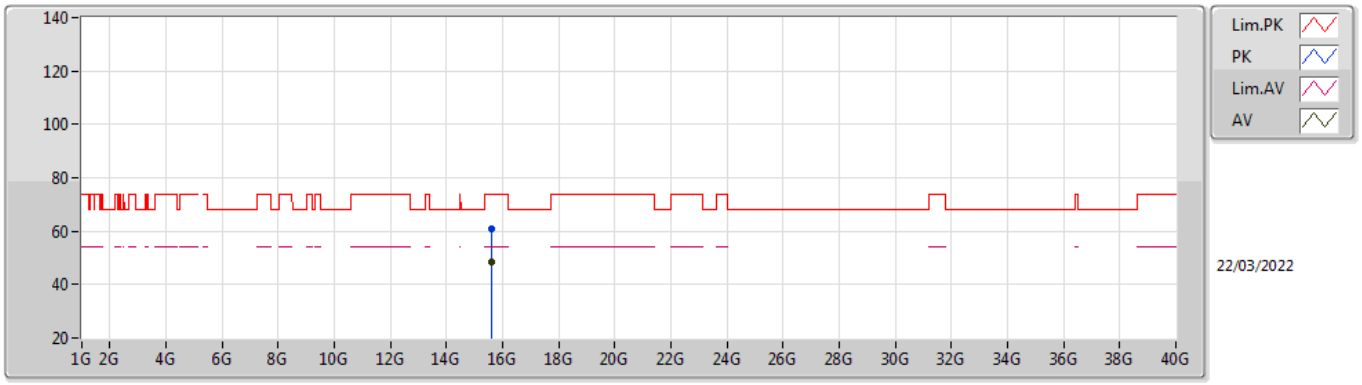


EUT X_2TX
Setting 26.5
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.60288G	61.57	74.00	-12.43	45.84	3	Vertical	253	1.68	-	37.99	13.20	35.46
AV	15.60666G	48.40	54.00	-5.60	32.69	3	Vertical	253	1.68	-	37.97	13.20	35.46

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

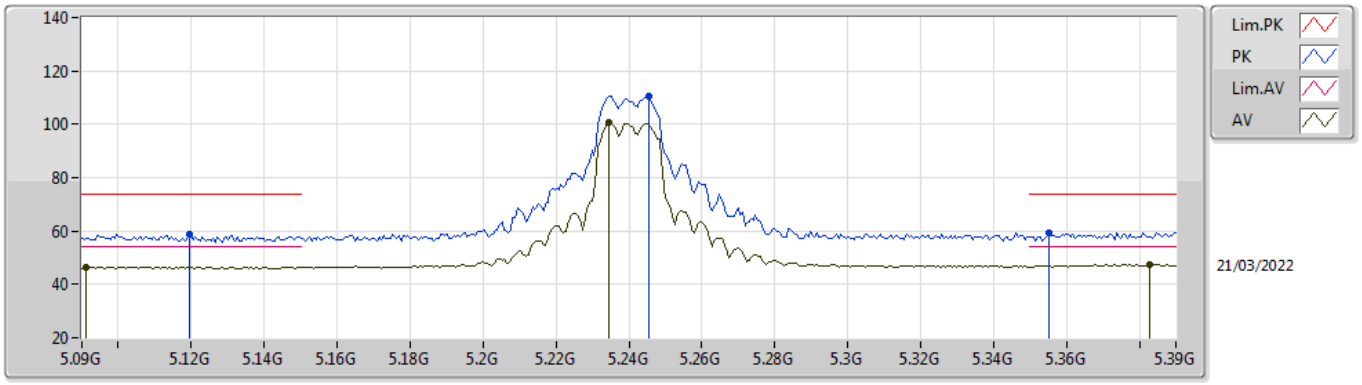


EUT X_2TX
Setting 26.5
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.59112G	60.78	74.00	-13.22	44.97	3	Horizontal	280	1.99	-	38.06	13.20	35.45
AV	15.59934G	48.43	54.00	-5.57	32.68	3	Horizontal	280	1.99	-	38.00	13.20	35.45

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

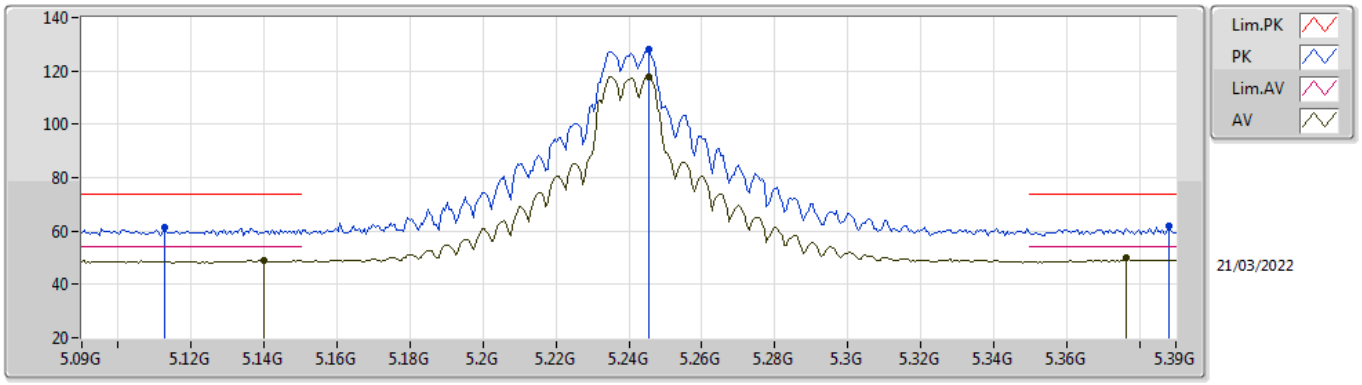


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.1194G	59.02	74.00	-14.98	53.25	3	Vertical	260	2.24	-	33.94	7.16	35.33
AV	5.0912G	46.41	54.00	-7.59	40.71	3	Vertical	260	2.24	-	33.88	7.15	35.33
PK	5.2454G	110.65	Inf	-Inf	104.41	3	Vertical	260	2.24	-	34.38	7.20	35.34
AV	5.2346G	100.90	Inf	-Inf	94.70	3	Vertical	260	2.24	-	34.34	7.20	35.34
PK	5.3552G	59.54	74.00	-14.46	53.17	3	Vertical	260	2.24	-	34.51	7.20	35.34
AV	5.3828G	47.35	54.00	-6.65	40.93	3	Vertical	260	2.24	-	34.57	7.20	35.35

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

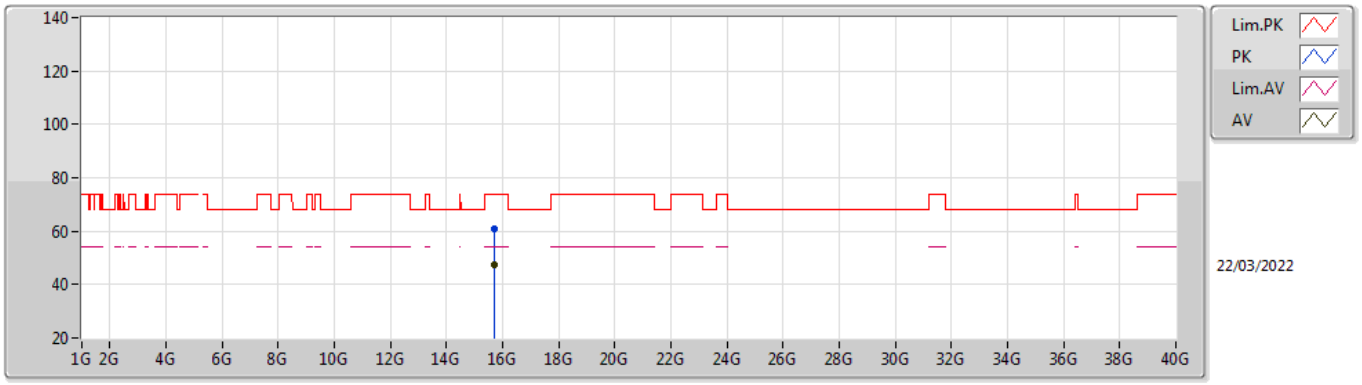


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.1128G	61.51	74.00	-12.49	55.75	3	Horizontal	-0	2.31	-	33.93	7.16	35.33
AV	5.1398G	48.97	54.00	-5.03	43.16	3	Horizontal	-0	2.31	-	33.98	7.17	35.34
PK	5.2454G	127.88	Inf	-Inf	121.64	3	Horizontal	-0	2.31	-	34.38	7.20	35.34
AV	5.2454G	117.97	Inf	-Inf	111.73	3	Horizontal	-0	2.31	-	34.38	7.20	35.34
PK	5.3882G	61.74	74.00	-12.26	55.31	3	Horizontal	-0	2.31	-	34.58	7.20	35.35
AV	5.3762G	50.01	54.00	-3.99	43.61	3	Horizontal	-0	2.31	-	34.55	7.20	35.35

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

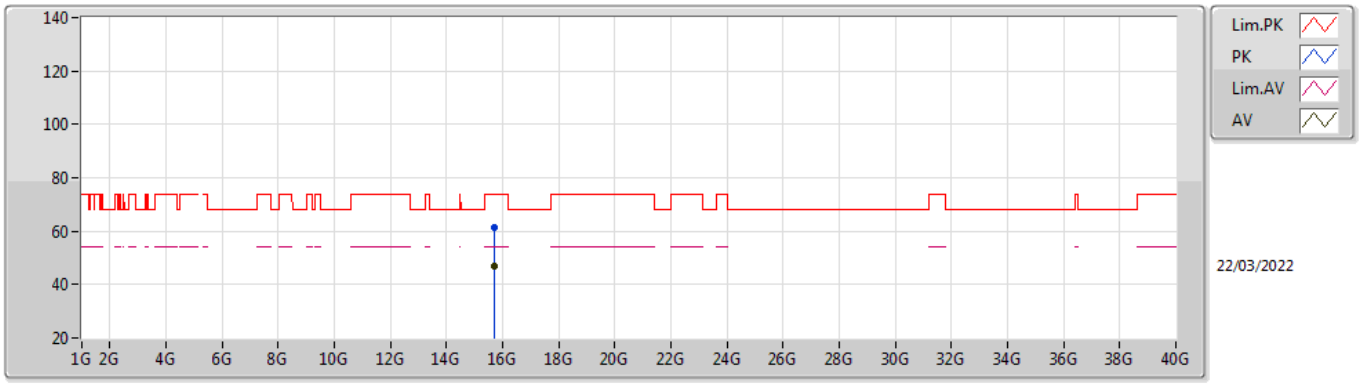


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.72564G	60.91	74.00	-13.09	45.61	3	Vertical	45	1.58	-	37.60	13.26	35.56
AV	15.72246G	47.16	54.00	-6.84	31.87	3	Vertical	45	1.58	-	37.59	13.26	35.56

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

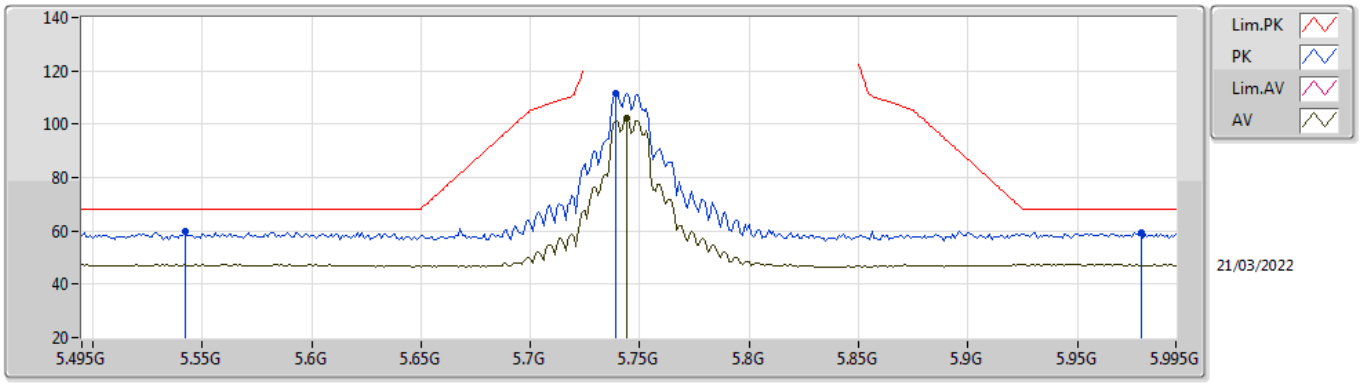


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.72564G	61.14	74.00	-12.86	45.84	3	Horizontal	125	1.62	-	37.60	13.26	35.56
AV	15.71952G	47.09	54.00	-6.91	31.80	3	Horizontal	125	1.62	-	37.58	13.26	35.55

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

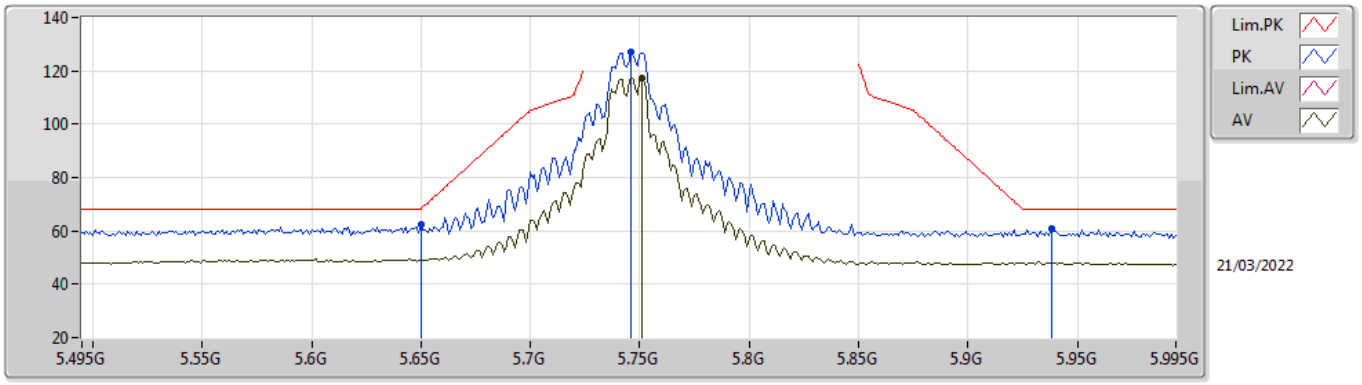


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.542G	59.63	68.20	-8.57	53.06	3	Vertical	248	1.18	-	34.60	7.34	35.37
PK	5.739G	111.46	Inf	-Inf	105.31	3	Vertical	248	1.18	-	34.22	7.40	35.47
AV	5.744G	102.04	Inf	-Inf	95.90	3	Vertical	248	1.18	-	34.21	7.40	35.47
PK	5.979G	59.45	68.20	-8.75	52.66	3	Vertical	248	1.18	-	34.80	7.58	35.59

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

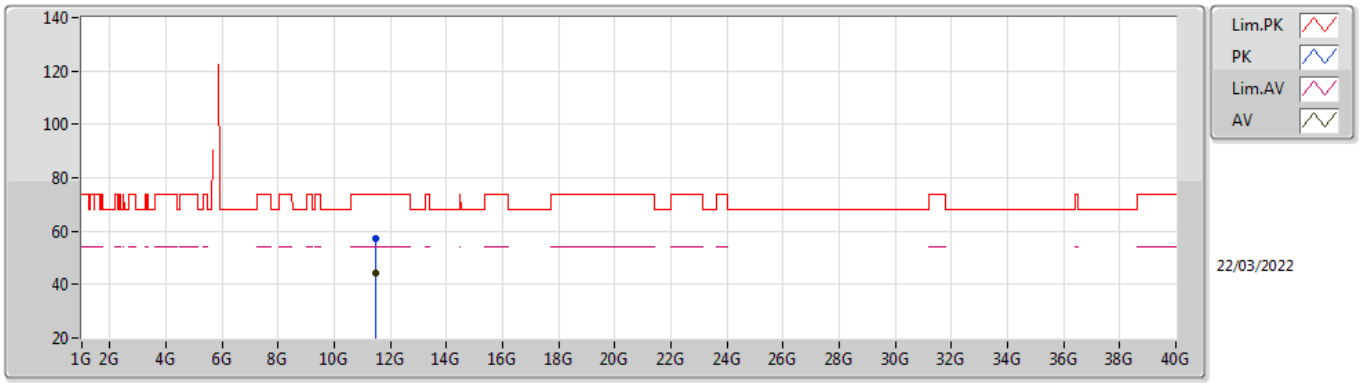


EUT X_2TX
Setting 27
03-C-E-2-10

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	62.35	68.20	-5.85	55.88	3	Horizontal	2	2.23	-	34.50	7.40	35.43
PK	5.746G	126.85	Inf	-Inf	120.71	3	Horizontal	2	2.23	-	34.21	7.40	35.47
AV	5.751G	117.08	Inf	-Inf	110.96	3	Horizontal	2	2.23	-	34.20	7.40	35.48
PK	5.938G	60.75	68.20	-7.45	54.03	3	Horizontal	2	2.23	-	34.75	7.54	35.57

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

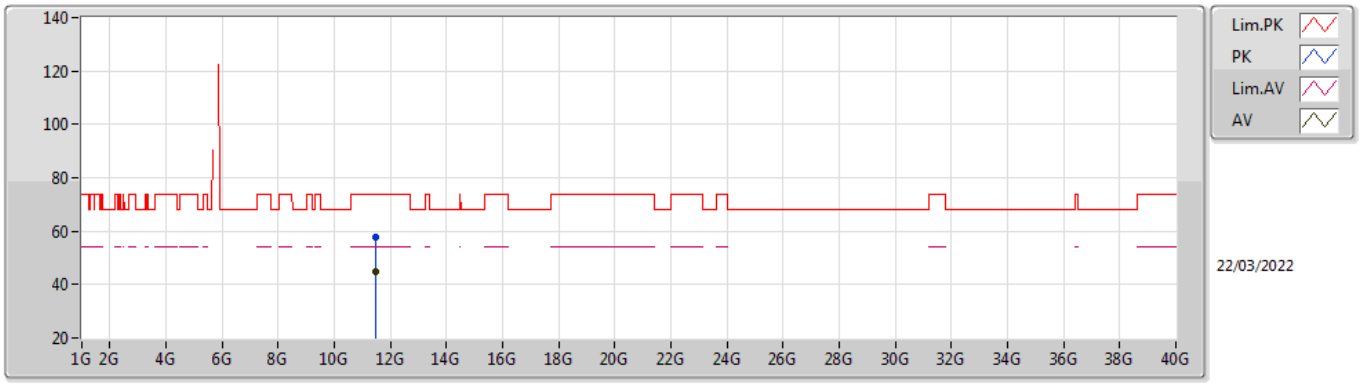


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4876G	57.08	74.00	-16.92	42.97	3	Vertical	32	2.39	-	38.98	10.72	35.59
AV	11.48832G	44.55	54.00	-9.45	30.44	3	Vertical	32	2.39	-	38.98	10.72	35.59

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

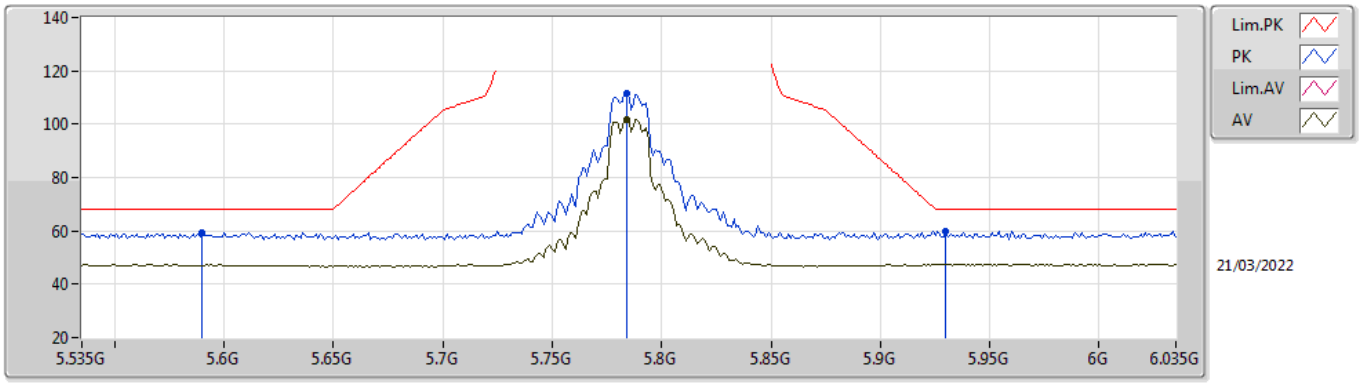


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.49498G	57.58	74.00	-16.42	43.46	3	Horizontal	-0	1.79	-	38.99	10.72	35.59
AV	11.48802G	44.81	54.00	-9.19	30.70	3	Horizontal	-0	1.79	-	38.98	10.72	35.59

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

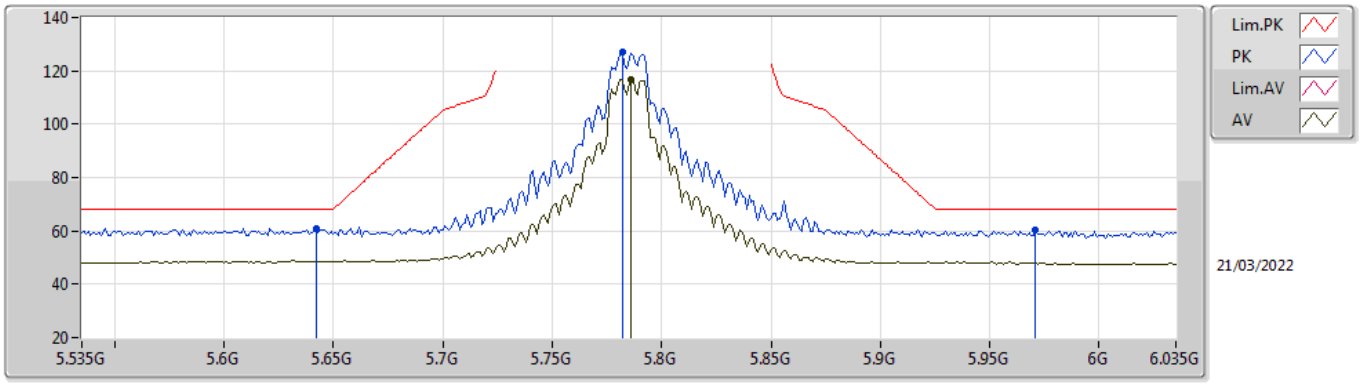


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.59G	59.42	68.20	-8.78	52.83	3	Vertical	248	1.02	-	34.60	7.39	35.40
PK	5.784G	111.61	Inf	-Inf	105.50	3	Vertical	248	1.02	-	34.20	7.40	35.49
AV	5.784G	101.87	Inf	-Inf	95.76	3	Vertical	248	1.02	-	34.20	7.40	35.49
PK	5.93G	59.73	68.20	-8.47	53.04	3	Vertical	248	1.02	-	34.72	7.53	35.56

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

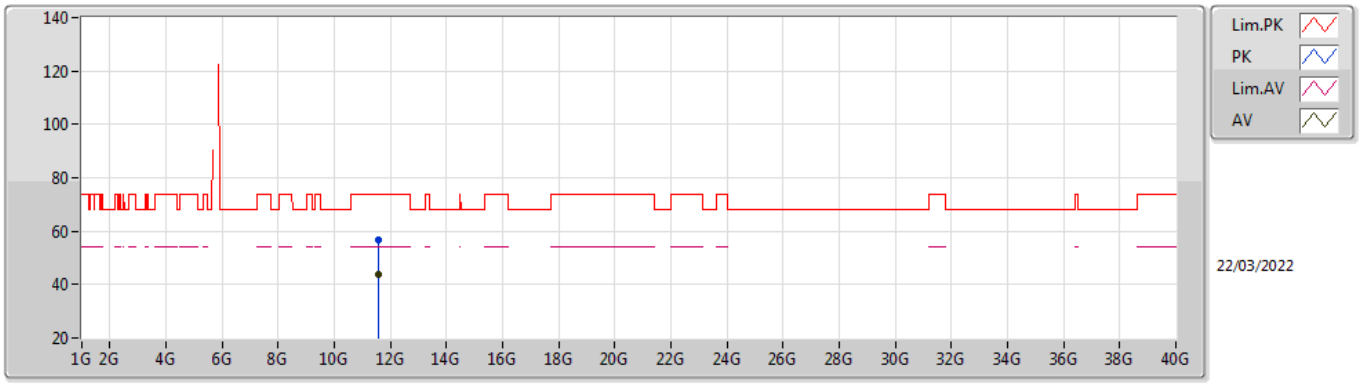


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.642G	60.80	68.20	-7.40	54.30	3	Horizontal	3	2.19	-	34.52	7.40	35.42
PK	5.782G	126.85	Inf	-Inf	120.74	3	Horizontal	3	2.19	-	34.20	7.40	35.49
AV	5.786G	116.86	Inf	-Inf	110.75	3	Horizontal	3	2.19	-	34.20	7.40	35.49
PK	5.971G	60.16	68.20	-8.04	53.38	3	Horizontal	3	2.19	-	34.80	7.57	35.59

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

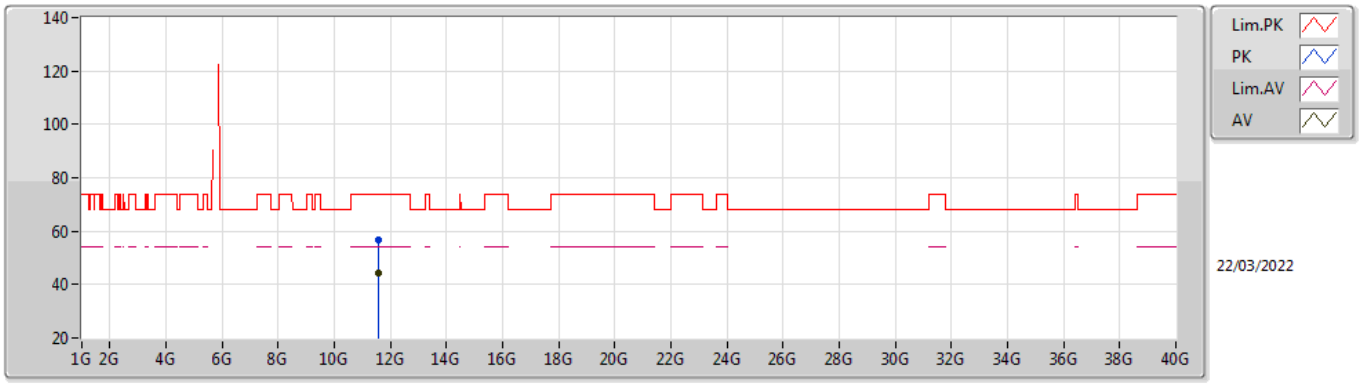


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5673G	56.51	74.00	-17.49	42.09	3	Vertical	274	1.07	-	39.27	10.74	35.59
AV	11.56844G	43.75	54.00	-10.25	29.32	3	Vertical	274	1.07	-	39.27	10.74	35.58

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

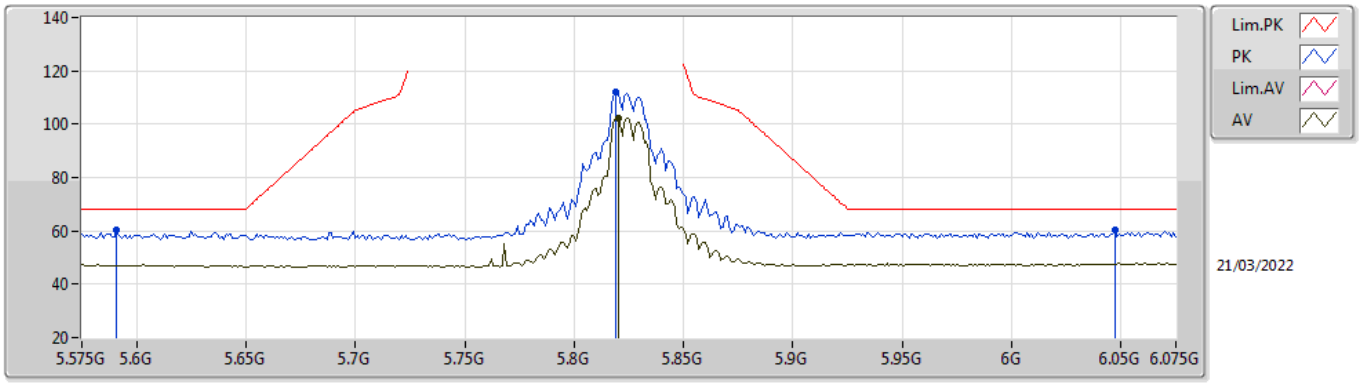


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.58068G	56.59	74.00	-17.41	42.11	3	Horizontal	2	1.80	-	39.32	10.74	35.58
AV	11.56826G	44.07	54.00	-9.93	29.64	3	Horizontal	2	1.80	-	39.27	10.74	35.58

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

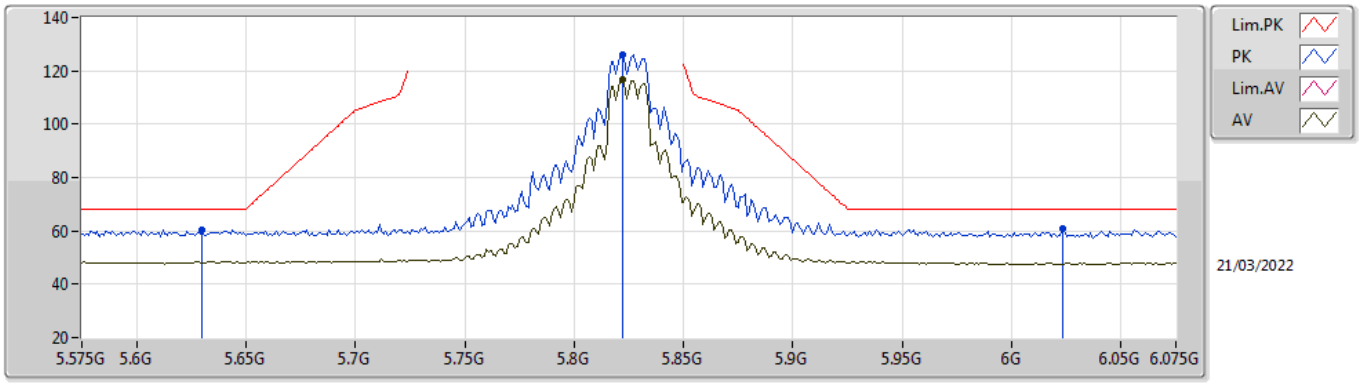


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.591G	60.34	68.20	-7.86	53.75	3	Vertical	249	1.10	-	34.60	7.39	35.40
PK	5.819G	112.22	Inf	-Inf	106.07	3	Vertical	249	1.10	-	34.24	7.42	35.51
AV	5.82G	102.22	Inf	-Inf	96.07	3	Vertical	249	1.10	-	34.24	7.42	35.51
PK	6.047G	60.27	68.20	-7.93	53.34	3	Vertical	249	1.10	-	34.89	7.62	35.58

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

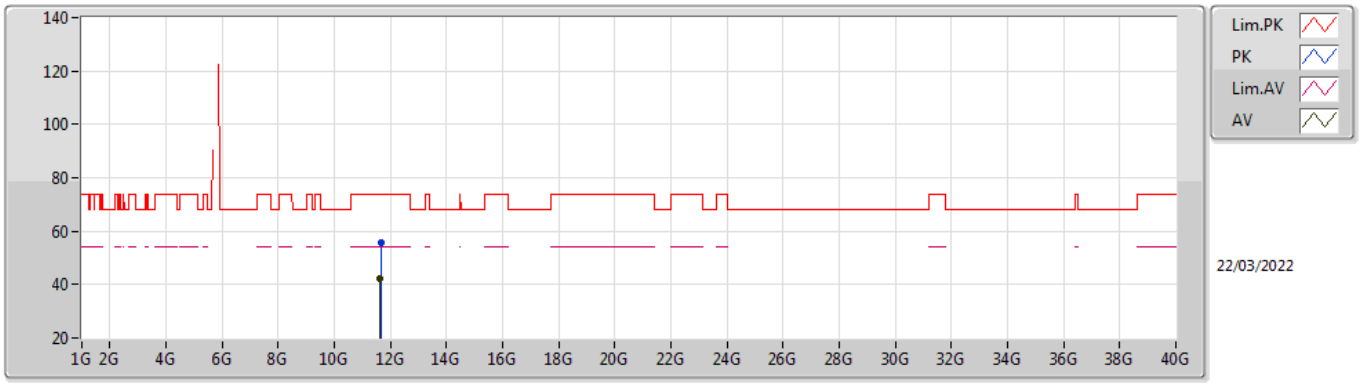


EUT X_2TX
Setting 27
03-C-E-2-10

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	60.49	68.20	-7.71	53.96	3	Horizontal	-0	2.25	-	34.54	7.40	35.41
PK	5.822G	126.17	Inf	-Inf	120.02	3	Horizontal	-0	2.25	-	34.24	7.42	35.51
AV	5.822G	116.52	Inf	-Inf	110.37	3	Horizontal	-0	2.25	-	34.24	7.42	35.51
PK	6.023G	60.89	68.20	-7.31	54.02	3	Horizontal	-0	2.25	-	34.85	7.61	35.59

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

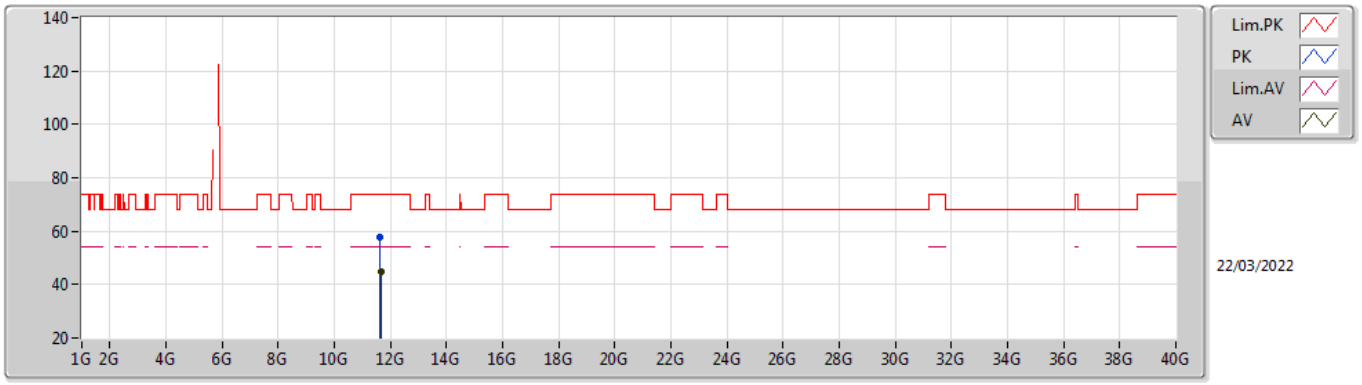


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6545G	55.73	74.00	-18.27	41.15	3	Vertical	174	1.80	-	39.40	10.75	35.57
AV	11.644G	42.45	54.00	-11.55	27.87	3	Vertical	174	1.80	-	39.40	10.75	35.57

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

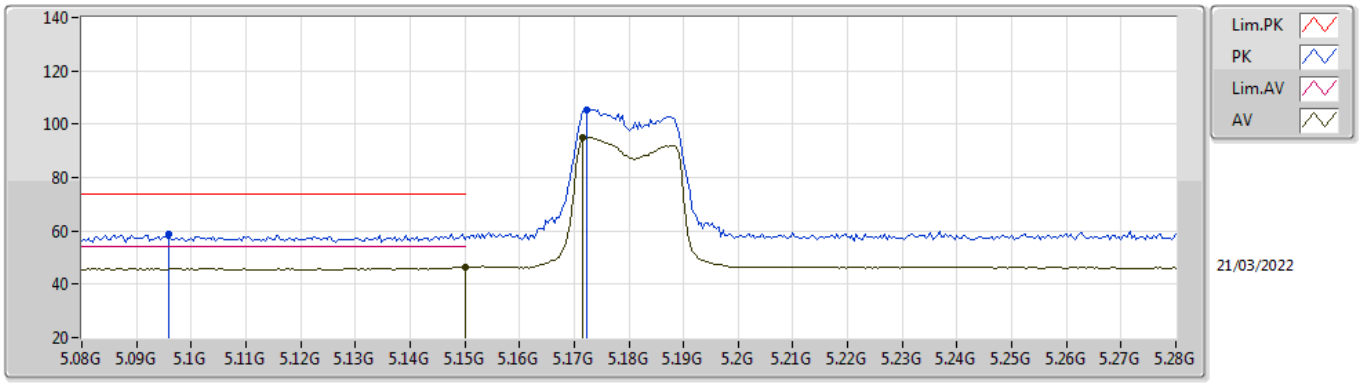


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64262G	57.57	74.00	-16.43	42.99	3	Horizontal	3	1.68	-	39.40	10.75	35.57
AV	11.64814G	44.73	54.00	-9.27	30.15	3	Horizontal	3	1.68	-	39.40	10.75	35.57

ac20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

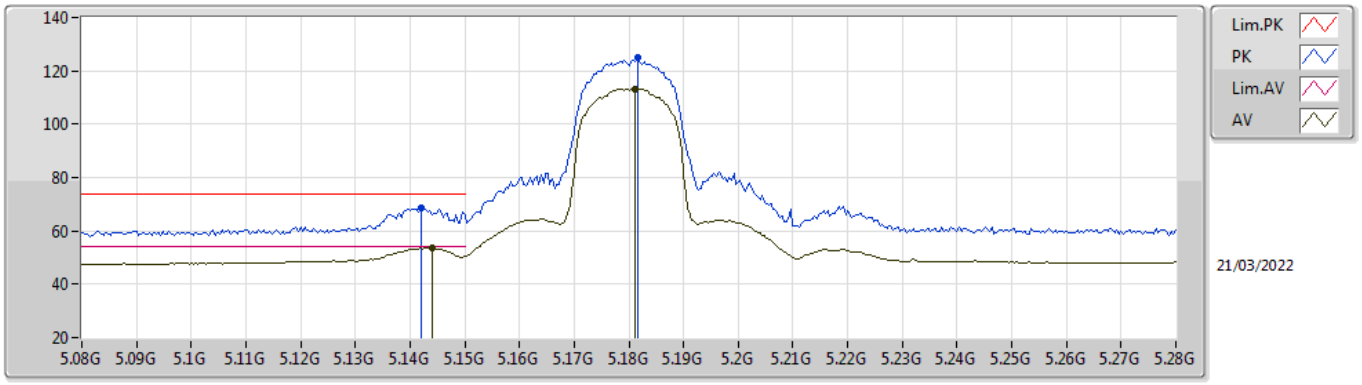


EUT X_2TX
Setting 23
03-C-E-2-10

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	5.096G	58.98	74.00	-15.02	53.27	3	Vertical	242	2.76	-	33.89	7.15	35.33
AV	5.15G	46.43	54.00	-7.57	40.60	3	Vertical	242	2.76	-	34.00	7.17	35.34
PK	5.1724G	105.53	Inf	-Inf	99.59	3	Vertical	242	2.76	-	34.09	7.19	35.34
AV	5.1716G	94.85	Inf	-Inf	88.91	3	Vertical	242	2.76	-	34.09	7.19	35.34

ac20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

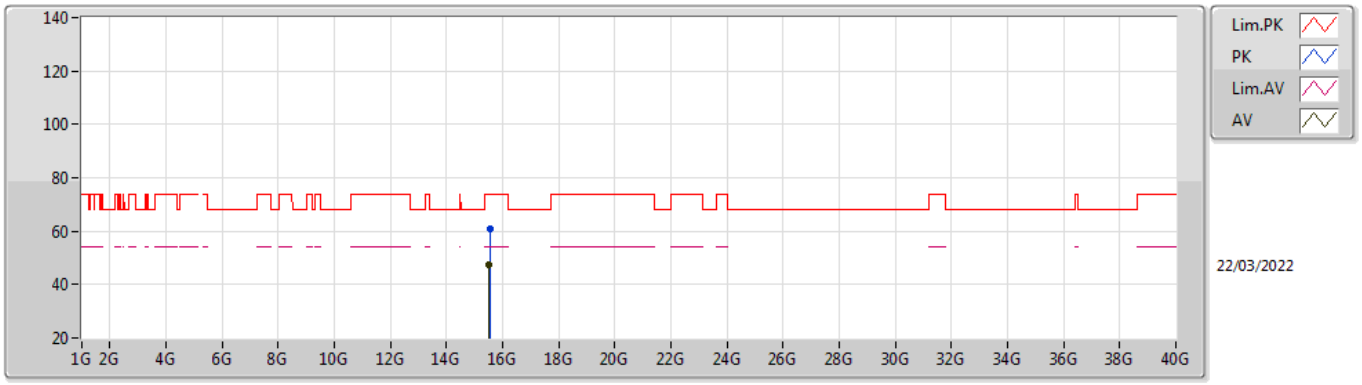


EUT X_2TX
Setting 23
03-C-E-2-10

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	5.142G	68.78	74.00	-5.22	62.97	3	Horizontal	356	2.37	-	33.98	7.17	35.34
AV	5.144G	53.53	54.00	-0.47	47.71	3	Horizontal	356	2.37	-	33.99	7.17	35.34
PK	5.1816G	125.11	Inf	-Inf	119.13	3	Horizontal	356	2.37	-	34.13	7.19	35.34
AV	5.1812G	113.34	Inf	-Inf	107.37	3	Horizontal	356	2.37	-	34.12	7.19	35.34

ac20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

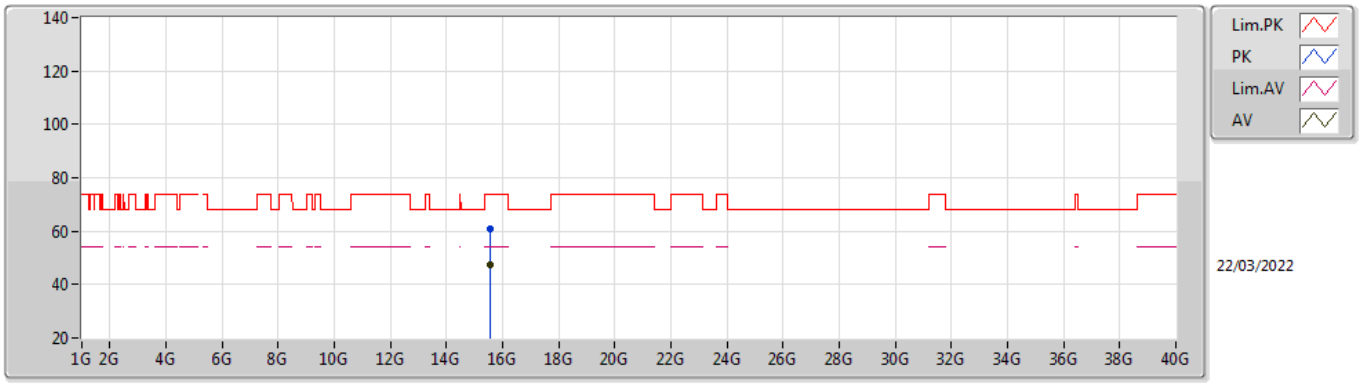


EUT X_2TX
Setting 23
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.53532G	60.94	74.00	-13.06	44.72	3	Vertical	241	2.38	-	38.45	13.17	35.40
AV	15.52866G	47.55	54.00	-6.45	31.28	3	Vertical	241	2.38	-	38.50	13.16	35.39

ac20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

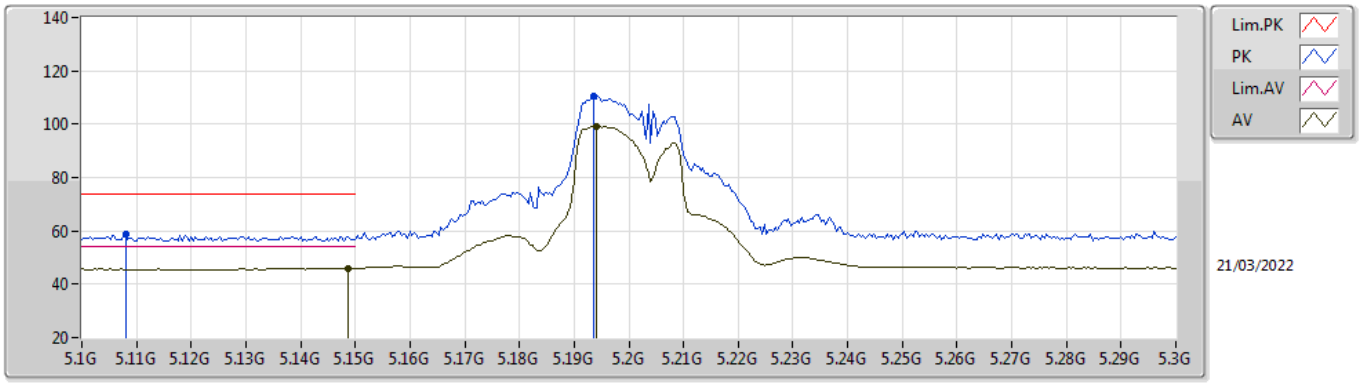


EUT X_2TX
Setting 23
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.53544G	60.82	74.00	-13.18	44.60	3	Horizontal	60	1.67	-	38.45	13.17	35.40
AV	15.53856G	47.54	54.00	-6.46	31.34	3	Horizontal	60	1.67	-	38.43	13.17	35.40

ac20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

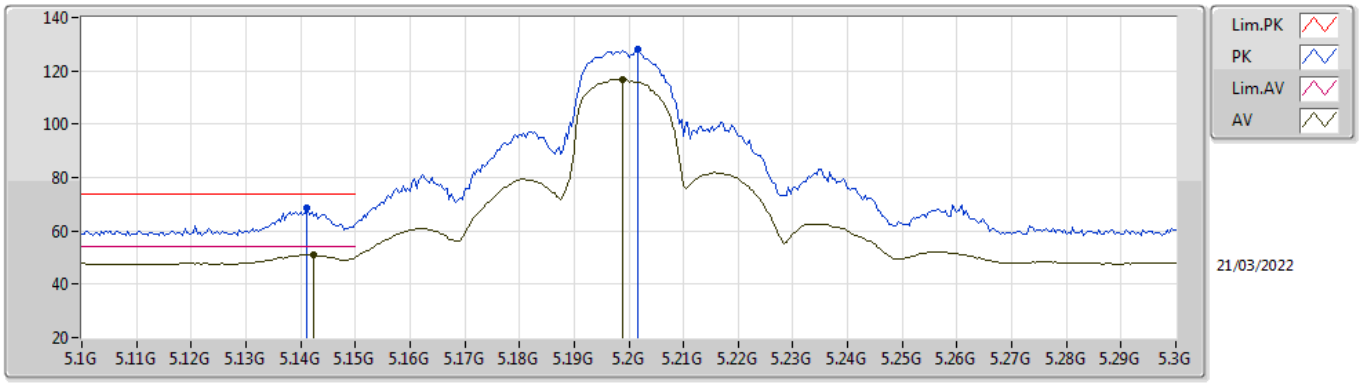


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.108G	58.85	74.00	-15.15	53.11	3	Vertical	273	2.48	-	33.92	7.15	35.33
AV	5.1488G	45.90	54.00	-8.10	40.07	3	Vertical	273	2.48	-	34.00	7.17	35.34
PK	5.1936G	110.40	Inf	-Inf	104.37	3	Vertical	273	2.48	-	34.17	7.20	35.34
AV	5.194G	99.17	Inf	-Inf	93.13	3	Vertical	273	2.48	-	34.18	7.20	35.34

ac20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

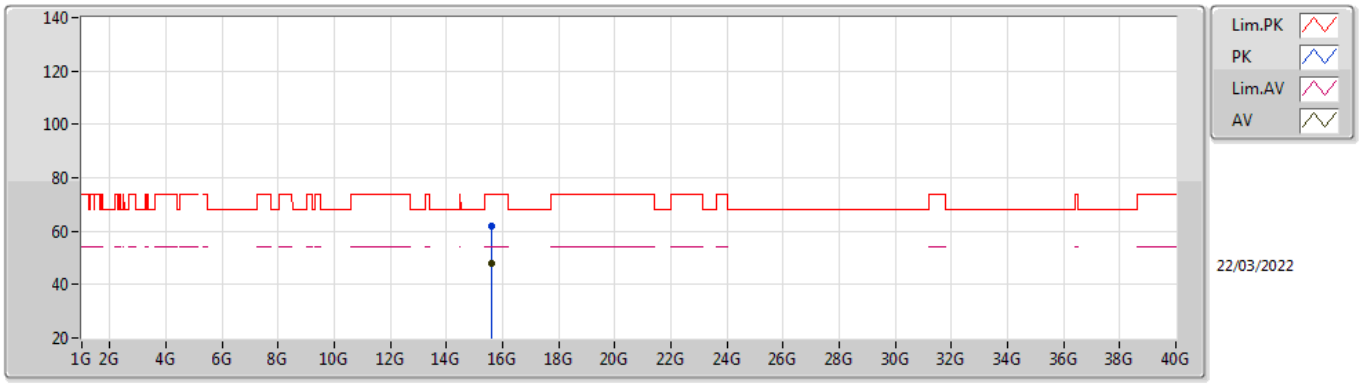


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.1412G	68.83	74.00	-5.17	63.02	3	Horizontal	359	2.24	-	33.98	7.17	35.34
AV	5.1424G	51.09	54.00	-2.91	45.28	3	Horizontal	359	2.24	-	33.98	7.17	35.34
PK	5.2016G	128.04	Inf	-Inf	121.97	3	Horizontal	359	2.24	-	34.21	7.20	35.34
AV	5.1988G	116.83	Inf	-Inf	110.77	3	Horizontal	359	2.24	-	34.20	7.20	35.34

ac20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

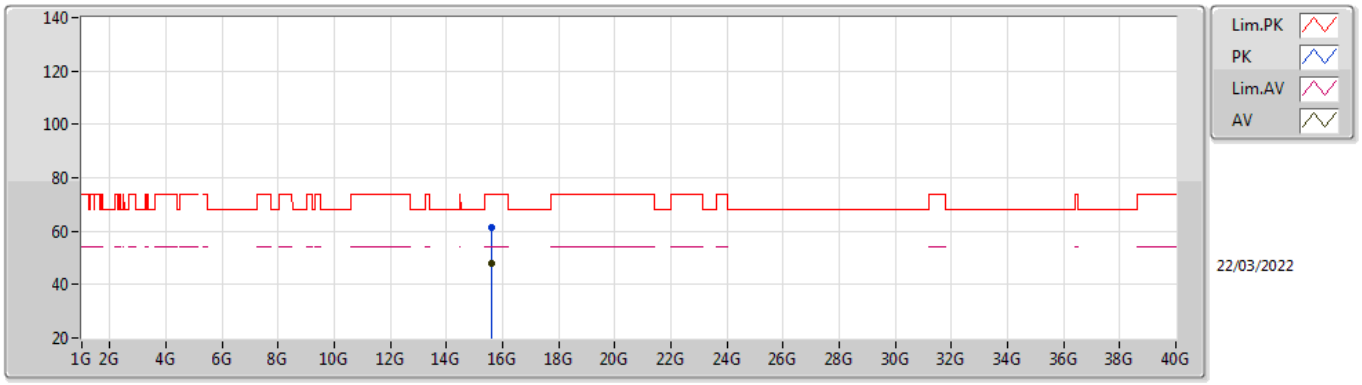


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5952G	62.10	74.00	-11.90	46.32	3	Vertical	175	1.30	-	38.03	13.20	35.45
AV	15.59568G	47.70	54.00	-6.30	31.92	3	Vertical	175	1.30	-	38.03	13.20	35.45

ac20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

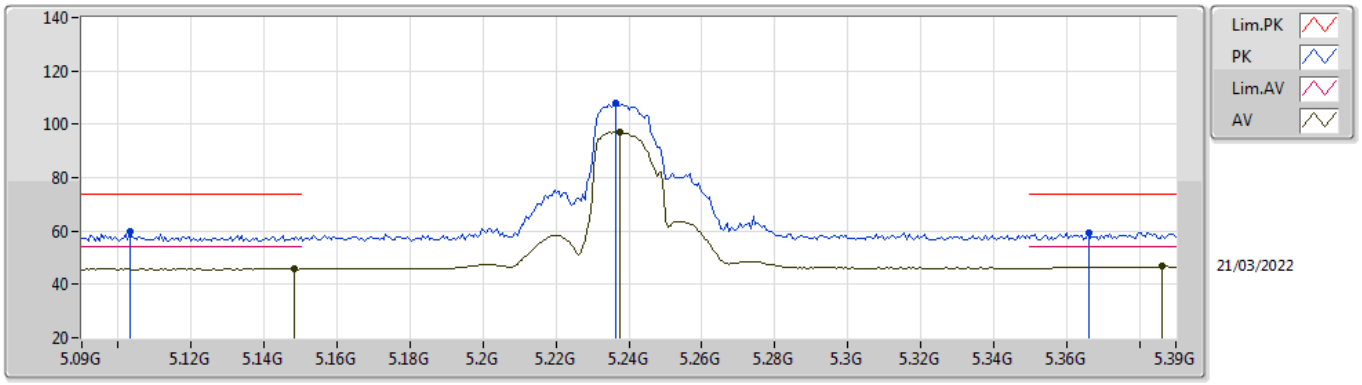


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.6129G	61.50	74.00	-12.50	45.81	3	Horizontal	-0	1.80	-	37.94	13.21	35.46
AV	15.60024G	47.69	54.00	-6.31	31.94	3	Horizontal	-0	1.80	-	38.00	13.20	35.45

ac20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

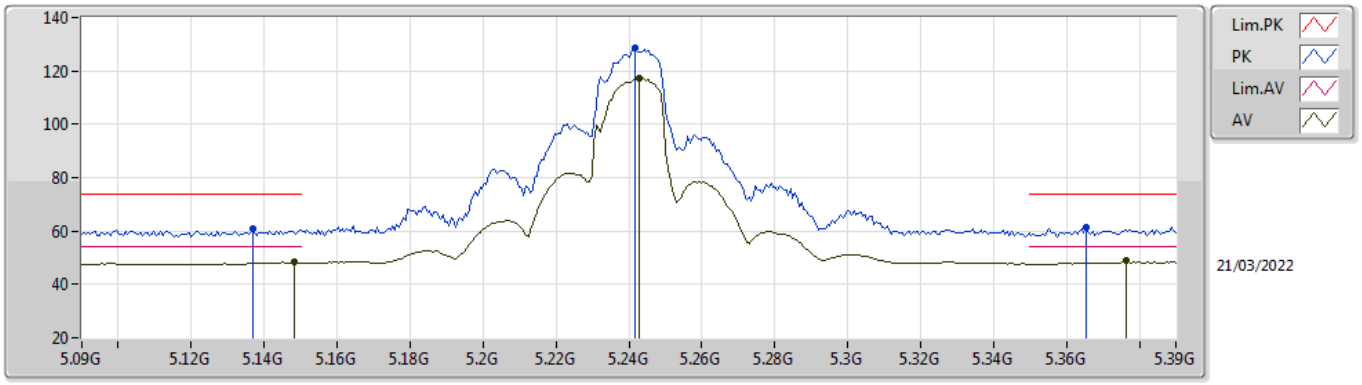


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.1032G	59.58	74.00	-14.42	53.85	3	Vertical	284	1.75	-	33.91	7.15	35.33
AV	5.1482G	45.79	54.00	-8.21	39.96	3	Vertical	284	1.75	-	34.00	7.17	35.34
PK	5.2364G	107.80	Inf	-Inf	101.59	3	Vertical	284	1.75	-	34.35	7.20	35.34
AV	5.2376G	97.22	Inf	-Inf	91.01	3	Vertical	284	1.75	-	34.35	7.20	35.34
PK	5.366G	59.48	74.00	-14.52	53.09	3	Vertical	284	1.75	-	34.53	7.20	35.34
AV	5.3864G	46.69	54.00	-7.31	40.27	3	Vertical	284	1.75	-	34.57	7.20	35.35

ac20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

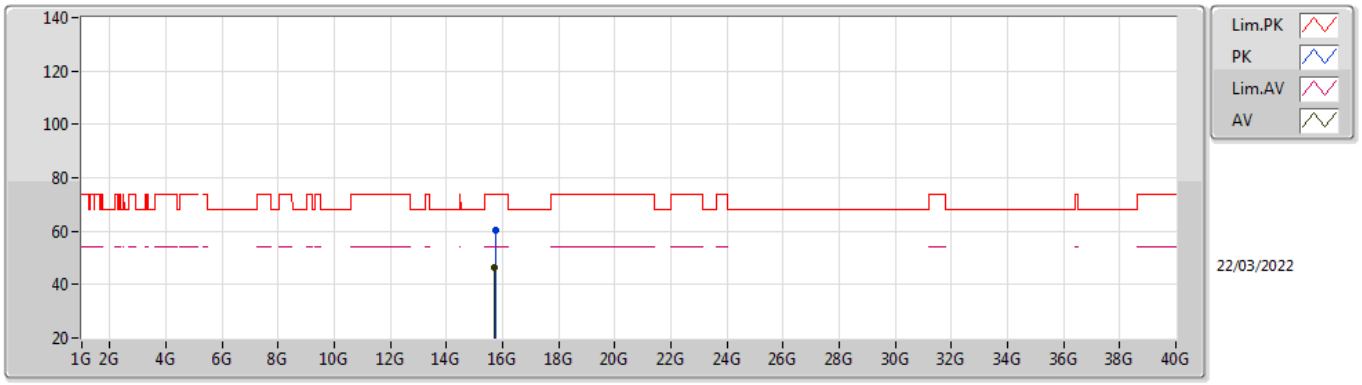


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.1368G	60.74	74.00	-13.26	54.94	3	Horizontal	3	2.46	-	33.97	7.17	35.34
AV	5.1482G	48.26	54.00	-5.74	42.43	3	Horizontal	3	2.46	-	34.00	7.17	35.34
PK	5.2418G	128.79	Inf	-Inf	122.56	3	Horizontal	3	2.46	-	34.37	7.20	35.34
AV	5.243G	117.24	Inf	-Inf	111.01	3	Horizontal	3	2.46	-	34.37	7.20	35.34
PK	5.3654G	61.36	74.00	-12.64	54.97	3	Horizontal	3	2.46	-	34.53	7.20	35.34
AV	5.3762G	48.81	54.00	-5.19	42.41	3	Horizontal	3	2.46	-	34.55	7.20	35.35

ac20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

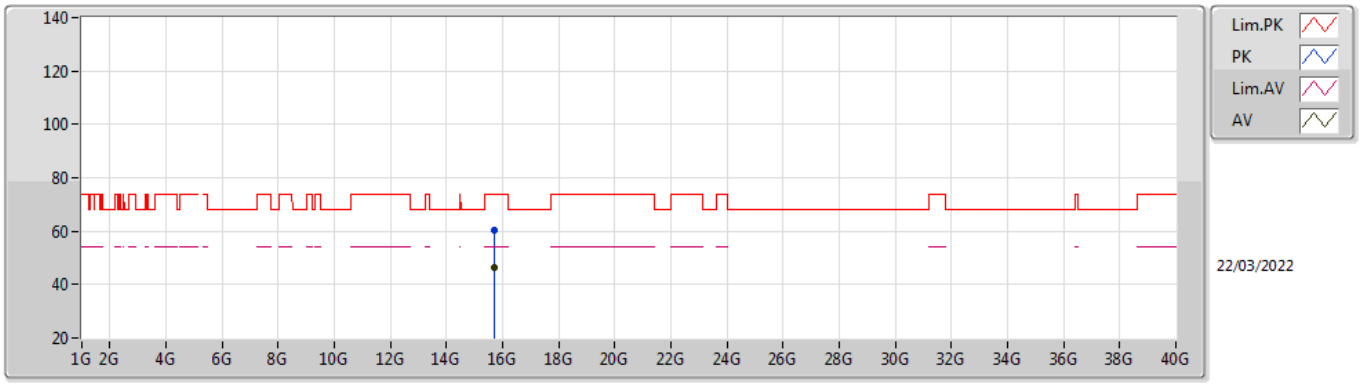


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.73404G	60.41	74.00	-13.59	45.07	3	Vertical	47	1.80	-	37.64	13.27	35.57
AV	15.7284G	46.58	54.00	-7.42	31.27	3	Vertical	47	1.80	-	37.61	13.26	35.56

ac20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

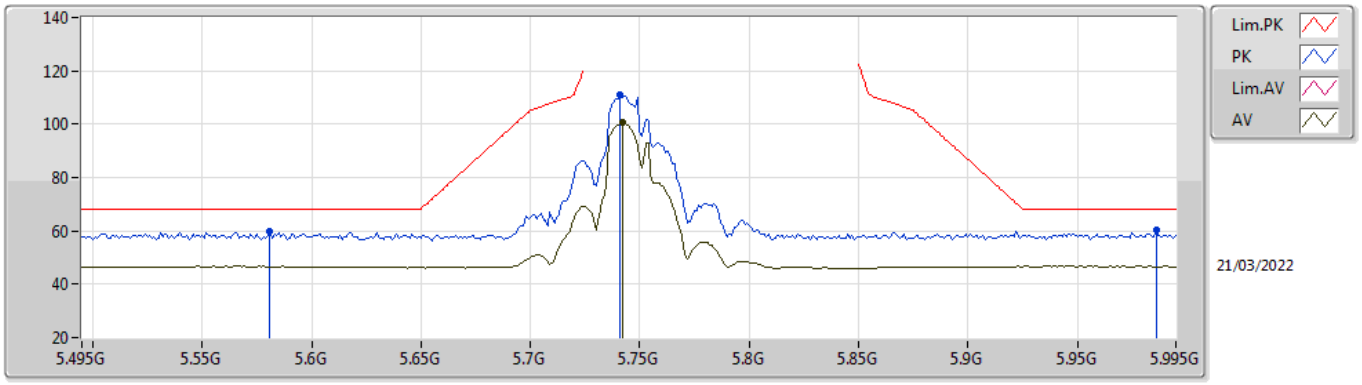


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.71382G	60.20	74.00	-13.80	44.93	3	Horizontal	307	1.80	-	37.56	13.26	35.55
AV	15.7224G	46.39	54.00	-7.61	31.10	3	Horizontal	307	1.80	-	37.59	13.26	35.56

ac20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

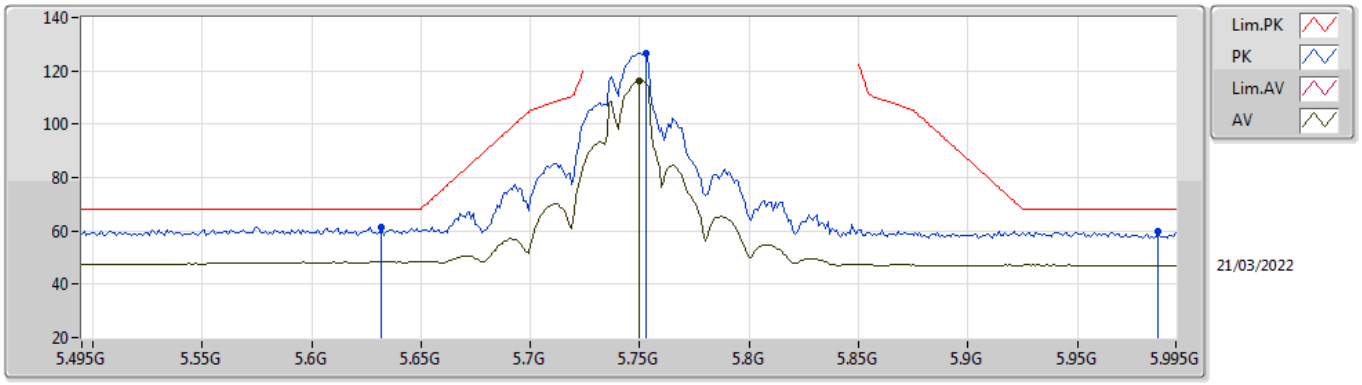


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.581G	59.62	68.20	-8.58	53.03	3	Vertical	248	1.20	-	34.60	7.38	35.39
PK	5.741G	111.10	Inf	-Inf	104.95	3	Vertical	248	1.20	-	34.22	7.40	35.47
AV	5.742G	100.51	Inf	-Inf	94.36	3	Vertical	248	1.20	-	34.22	7.40	35.47
PK	5.986G	60.25	68.20	-7.95	53.45	3	Vertical	248	1.20	-	34.80	7.59	35.59

ac20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

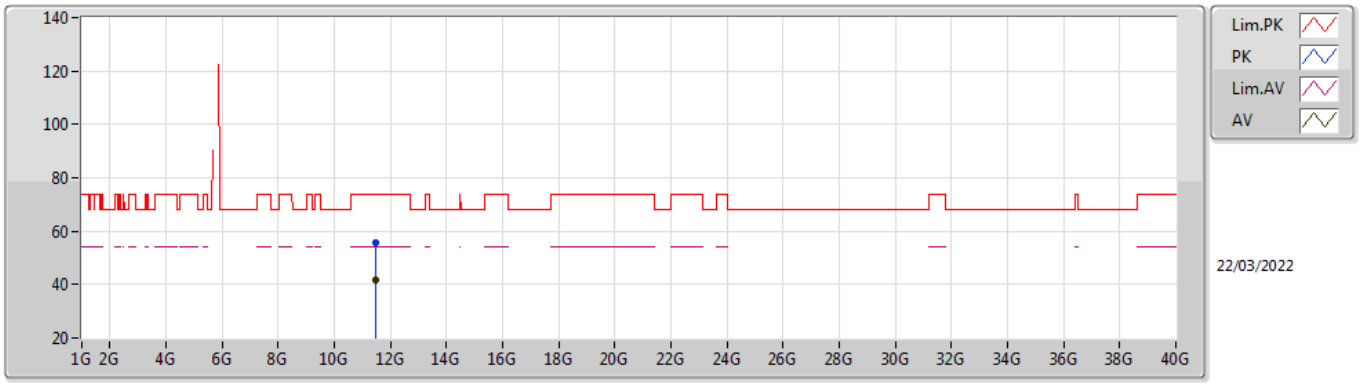


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.632G	61.31	68.20	-6.89	54.79	3	Horizontal	-0	2.30	-	34.54	7.40	35.42
PK	5.753G	126.74	Inf	-Inf	120.62	3	Horizontal	-0	2.30	-	34.20	7.40	35.48
AV	5.75G	116.23	Inf	-Inf	110.11	3	Horizontal	-0	2.30	-	34.20	7.40	35.48
PK	5.987G	59.87	68.20	-8.33	53.07	3	Horizontal	-0	2.30	-	34.80	7.59	35.59

ac20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

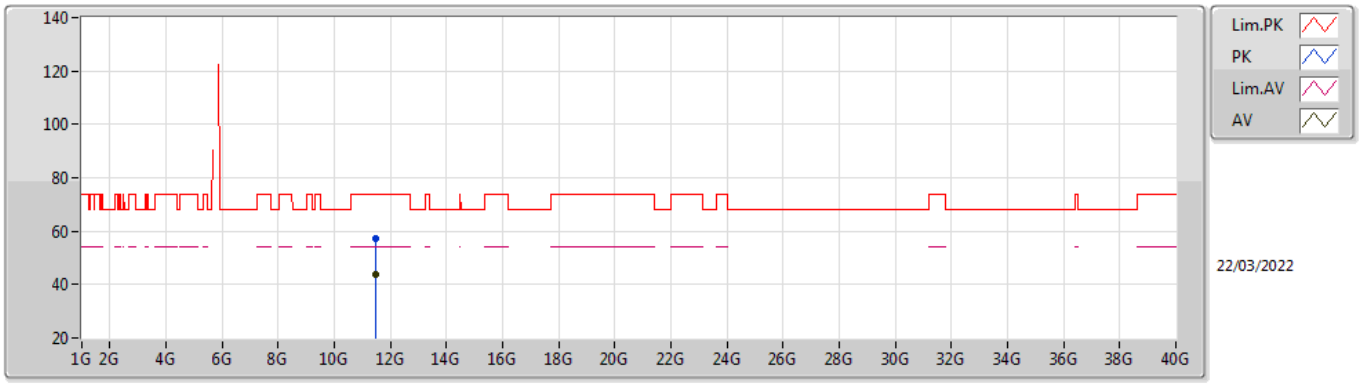


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.48106G	55.76	74.00	-18.24	41.66	3	Vertical	206	1.80	-	38.96	10.72	35.58
AV	11.48532G	41.91	54.00	-12.09	27.80	3	Vertical	206	1.80	-	38.97	10.72	35.58

ac20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

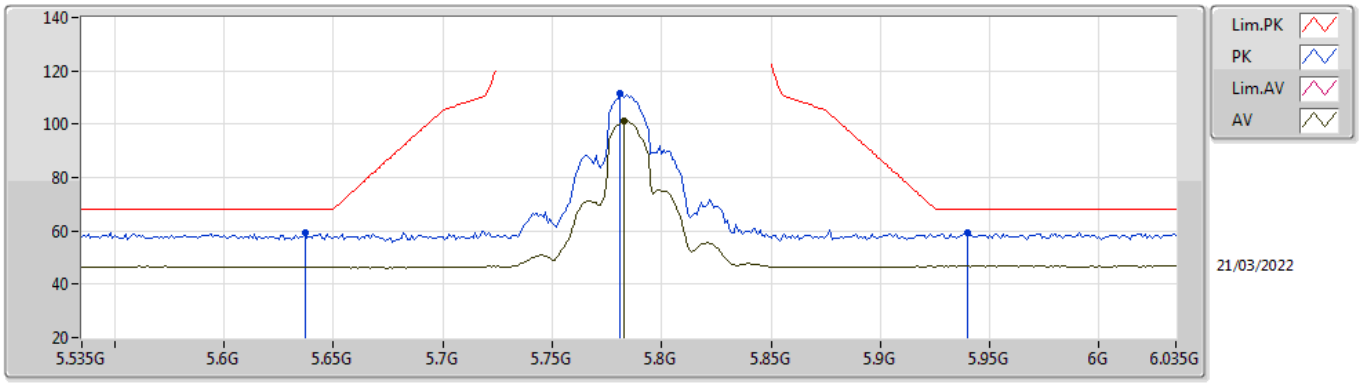


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4864G	57.26	74.00	-16.74	43.15	3	Horizontal	-0	1.80	-	38.97	10.72	35.58
AV	11.48466G	43.60	54.00	-10.40	29.49	3	Horizontal	-0	1.80	-	38.97	10.72	35.58

ac20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

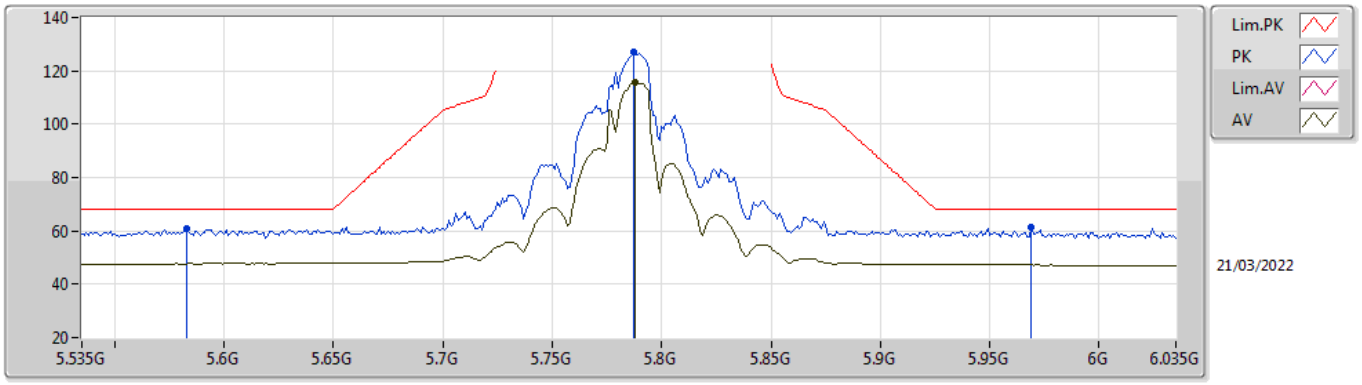


EUT X_2TX
Setting 27
03-C-E-2-10

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	59.37	68.20	-8.83	52.86	3	Vertical	246	2.55	-	34.53	7.40	35.42
PK	5.781G	111.50	Inf	-Inf	105.39	3	Vertical	246	2.55	-	34.20	7.40	35.49
AV	5.783G	101.23	Inf	-Inf	95.12	3	Vertical	246	2.55	-	34.20	7.40	35.49
PK	5.94G	59.35	68.20	-8.85	52.62	3	Vertical	246	2.55	-	34.76	7.54	35.57

ac20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

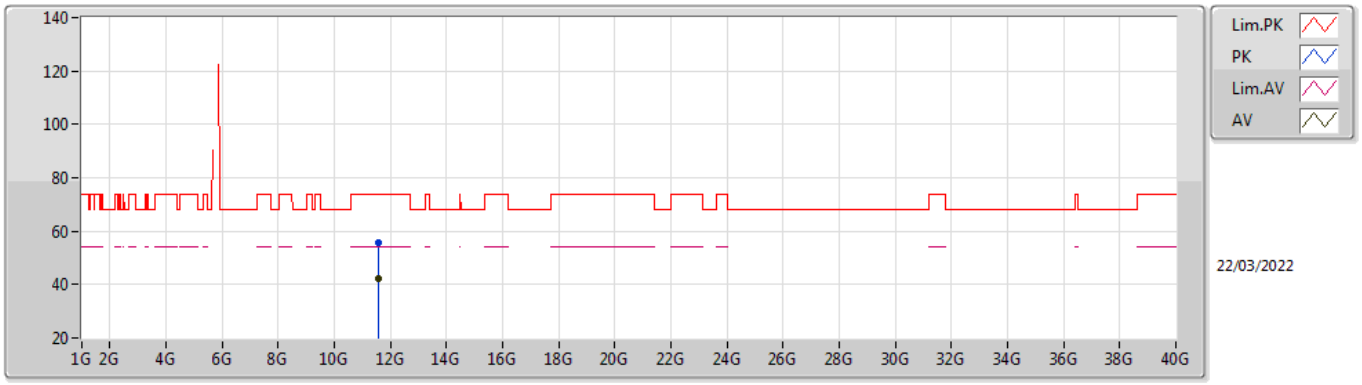


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.583G	60.91	68.20	-7.29	54.32	3	Horizontal	4	2.14	-	34.60	7.38	35.39
PK	5.787G	126.99	Inf	-Inf	120.88	3	Horizontal	4	2.14	-	34.20	7.40	35.49
AV	5.788G	115.81	Inf	-Inf	109.70	3	Horizontal	4	2.14	-	34.20	7.40	35.49
PK	5.969G	61.50	68.20	-6.70	54.71	3	Horizontal	4	2.14	-	34.80	7.57	35.58

ac20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

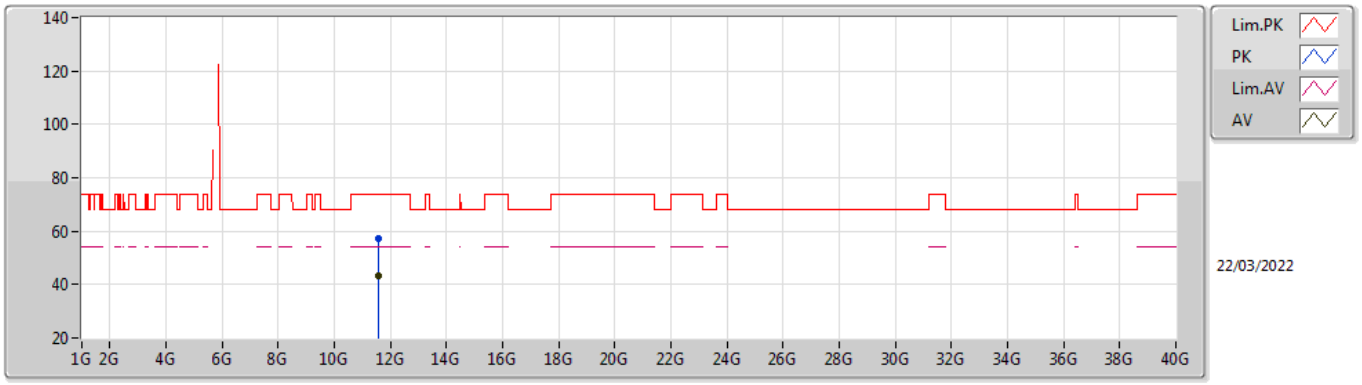


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.57546G	55.76	74.00	-18.24	41.30	3	Vertical	119	2.09	-	39.30	10.74	35.58
AV	11.56994G	42.22	54.00	-11.78	27.78	3	Vertical	119	2.09	-	39.28	10.74	35.58

ac20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

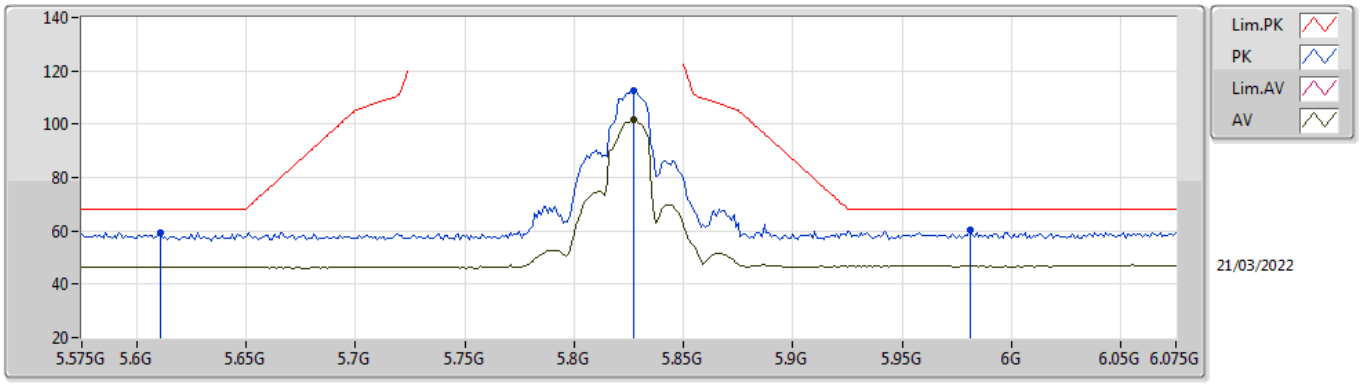


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.56802G	57.38	74.00	-16.62	42.96	3	Horizontal	2	1.78	-	39.27	10.74	35.59
AV	11.56664G	43.38	54.00	-10.62	28.97	3	Horizontal	2	1.78	-	39.27	10.73	35.59

ac20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

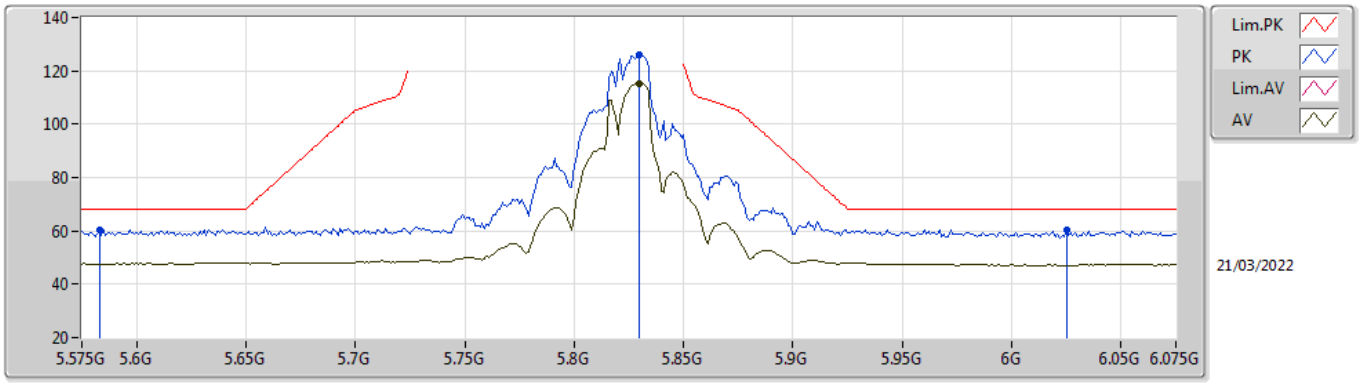


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.611G	59.55	68.20	-8.65	52.98	3	Vertical	243	2.45	-	34.58	7.40	35.41
PK	5.827G	112.80	Inf	-Inf	106.63	3	Vertical	243	2.45	-	34.25	7.43	35.51
AV	5.827G	101.81	Inf	-Inf	95.64	3	Vertical	243	2.45	-	34.25	7.43	35.51
PK	5.981G	60.18	68.20	-8.02	53.39	3	Vertical	243	2.45	-	34.80	7.58	35.59

ac20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

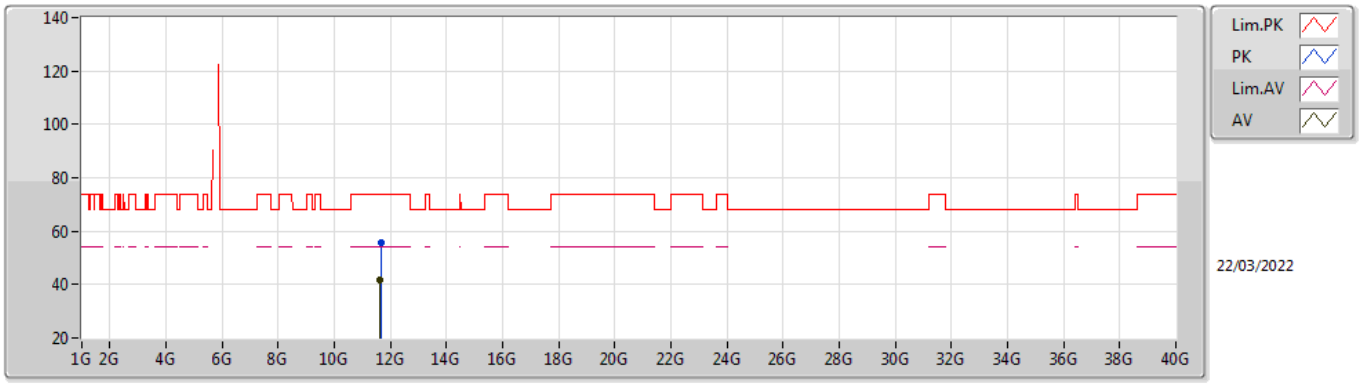


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.583G	60.60	68.20	-7.60	54.01	3	Horizontal	2	2.19	-	34.60	7.38	35.39
PK	5.83G	126.26	Inf	-Inf	120.09	3	Horizontal	2	2.19	-	34.26	7.43	35.52
AV	5.83G	115.31	Inf	-Inf	109.14	3	Horizontal	2	2.19	-	34.26	7.43	35.52
PK	6.025G	60.42	68.20	-7.78	53.55	3	Horizontal	2	2.19	-	34.85	7.61	35.59

ac20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

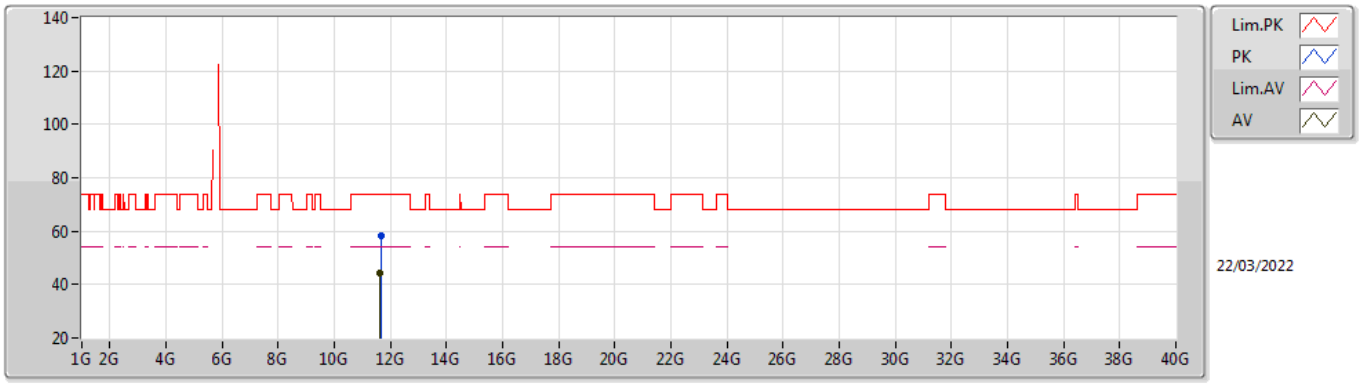


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.65936G	55.91	74.00	-18.09	41.32	3	Vertical	233	1.80	-	39.40	10.75	35.56
AV	11.63986G	41.87	54.00	-12.13	27.29	3	Vertical	233	1.80	-	39.40	10.75	35.57

ac20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

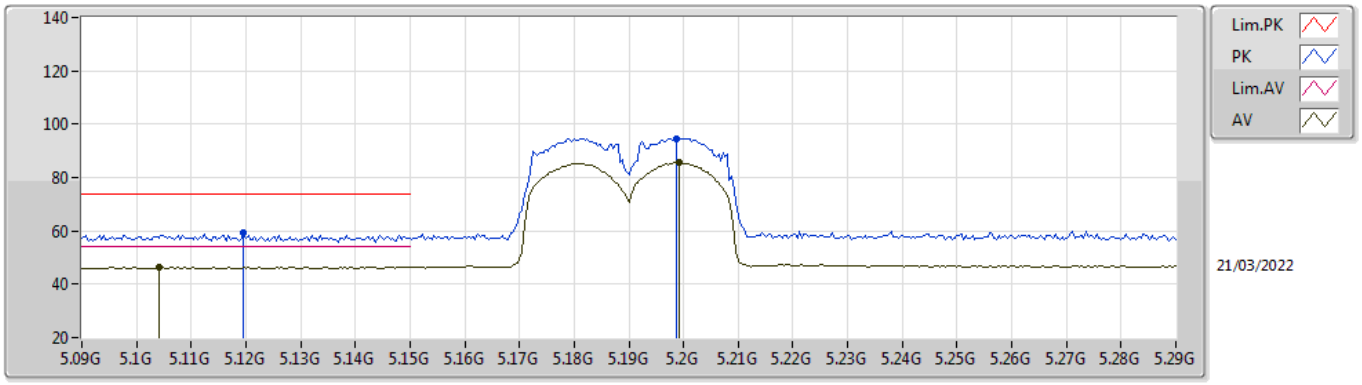


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64766G	58.32	74.00	-15.68	43.74	3	Horizontal	3	1.74	-	39.40	10.75	35.57
AV	11.647G	44.09	54.00	-9.91	29.51	3	Horizontal	3	1.74	-	39.40	10.75	35.57

ac40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

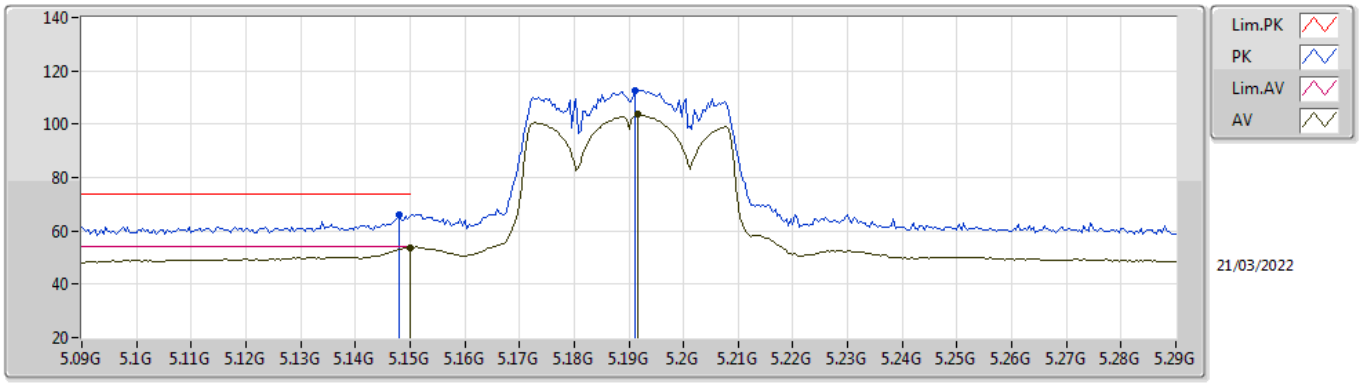


EUT X_2TX
Setting 15
03-C-E-2-10

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	5.1196G	59.18	74.00	-14.82	53.41	3	Vertical	242	1.14	-	33.94	7.16	35.33
AV	5.104G	46.39	54.00	-7.61	40.66	3	Vertical	242	1.14	-	33.91	7.15	35.33
PK	5.1988G	94.65	Inf	-Inf	88.59	3	Vertical	242	1.14	-	34.20	7.20	35.34
AV	5.1992G	85.64	Inf	-Inf	79.58	3	Vertical	242	1.14	-	34.20	7.20	35.34

ac40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

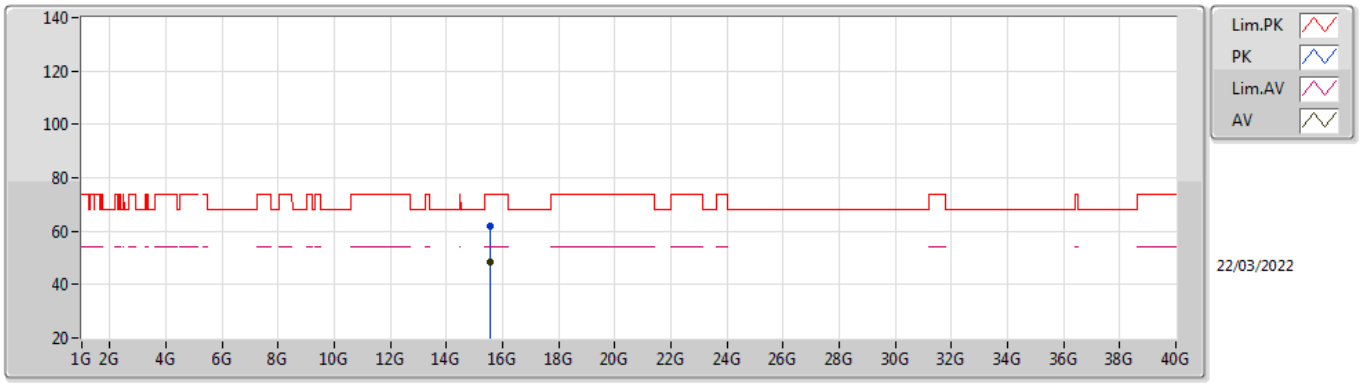


EUT X_2TX
Setting 15
03-C-E-2-10

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	5.148G	66.17	74.00	-7.83	60.34	3	Horizontal	-0	2.43	-	34.00	7.17	35.34
AV	5.15G	53.67	54.00	-0.33	47.84	3	Horizontal	-0	2.43	-	34.00	7.17	35.34
PK	5.1912G	112.71	Inf	-Inf	106.69	3	Horizontal	-0	2.43	-	34.16	7.20	35.34
AV	5.1916G	103.64	Inf	-Inf	97.61	3	Horizontal	-0	2.43	-	34.17	7.20	35.34

ac40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

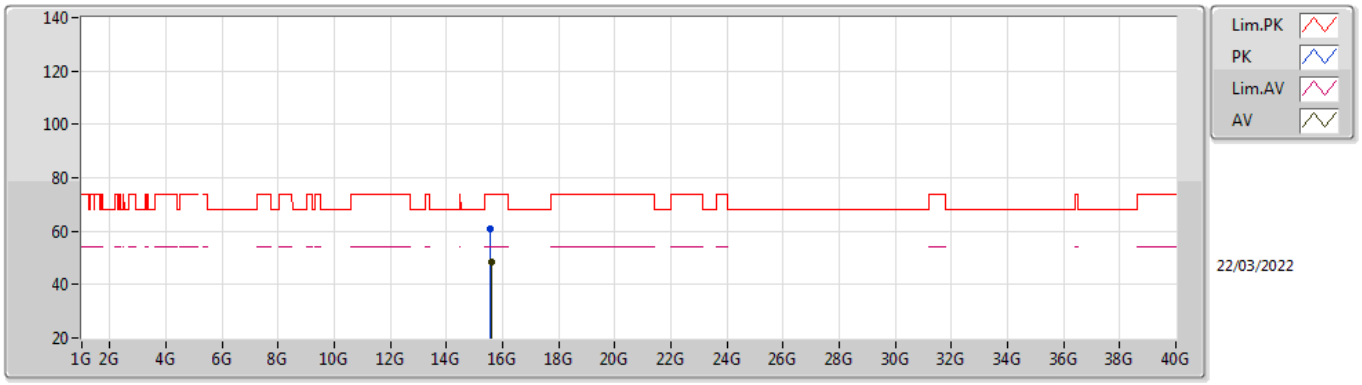


EUT X_2TX
Setting 15
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.57954G	62.13	74.00	-11.87	46.24	3	Vertical	324	2.00	-	38.14	13.19	35.44
AV	15.5742G	48.20	54.00	-5.80	32.26	3	Vertical	324	2.00	-	38.18	13.19	35.43

ac40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

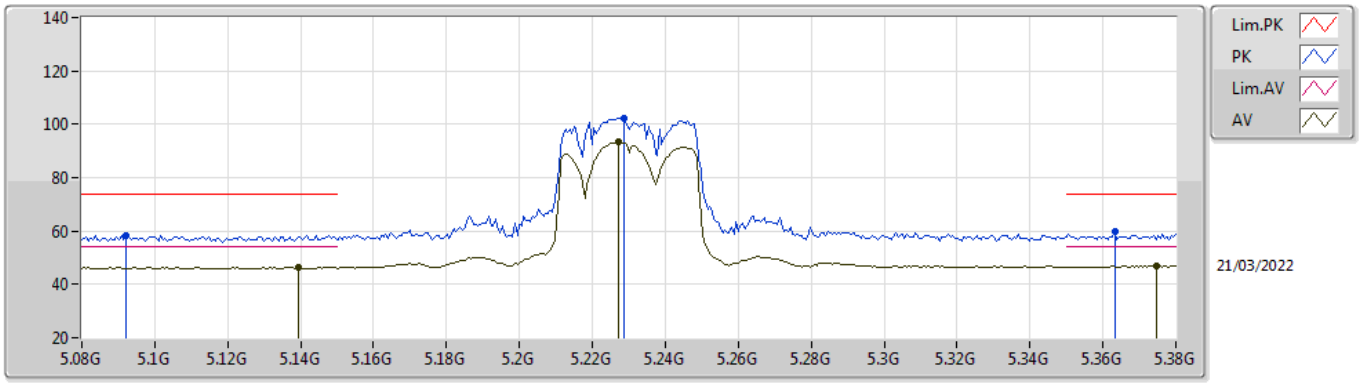


EUT X_2TX
Setting 15
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.57048G	60.75	74.00	-13.25	44.78	3	Horizontal	114	2.14	-	38.21	13.19	35.43
AV	15.58218G	48.20	54.00	-5.80	32.33	3	Horizontal	114	2.14	-	38.12	13.19	35.44

ac40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

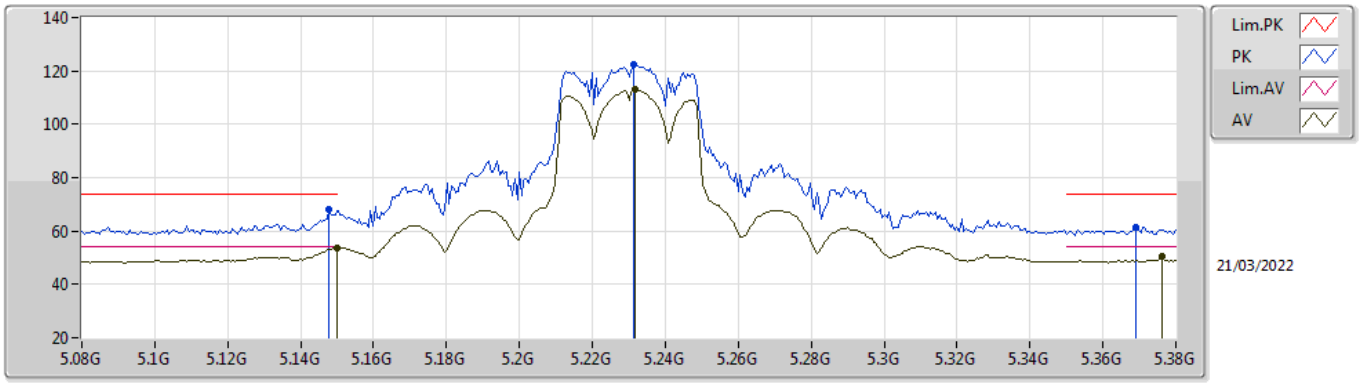


EUT X_2TX
Setting 24
03-C-E-2-10

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	5.092G	58.53	74.00	-15.47	52.83	3	Vertical	284	1.92	-	33.88	7.15	35.33
AV	5.1394G	46.53	54.00	-7.47	40.72	3	Vertical	284	1.92	-	33.98	7.17	35.34
PK	5.2288G	102.19	Inf	-Inf	96.01	3	Vertical	284	1.92	-	34.32	7.20	35.34
AV	5.227G	93.23	Inf	-Inf	87.06	3	Vertical	284	1.92	-	34.31	7.20	35.34
PK	5.3632G	60.02	74.00	-13.98	53.63	3	Vertical	284	1.92	-	34.53	7.20	35.34
AV	5.3746G	47.09	54.00	-6.91	40.68	3	Vertical	284	1.92	-	34.55	7.20	35.34

ac40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

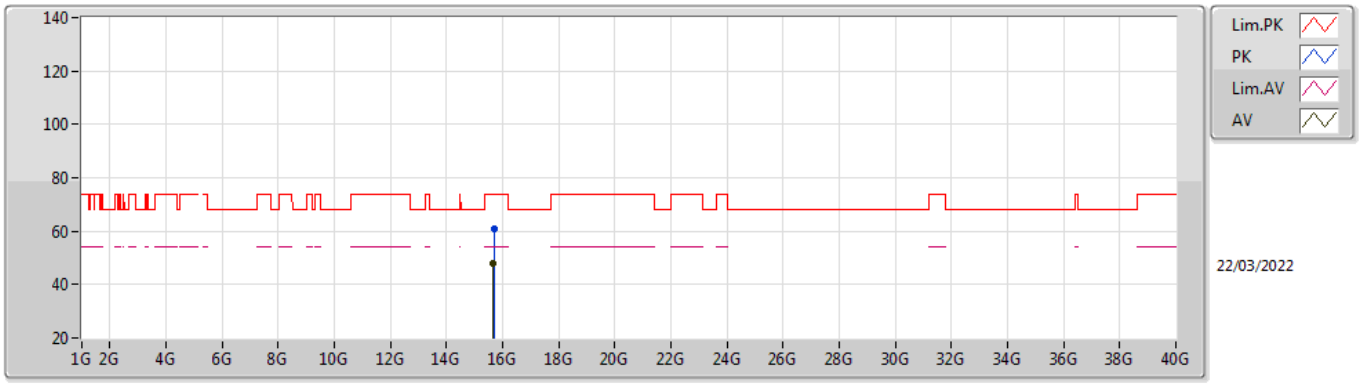


EUT X_2TX
Setting 24
03-C-E-2-10

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	68.16	74.00	-5.84	62.33	3	Horizontal	-0	2.33	-	34.00	7.17	35.34
AV	5.15G	53.73	54.00	-0.27	47.90	3	Horizontal	-0	2.33	-	34.00	7.17	35.34
PK	5.2312G	122.25	Inf	-Inf	116.07	3	Horizontal	-0	2.33	-	34.32	7.20	35.34
AV	5.2318G	113.13	Inf	-Inf	106.94	3	Horizontal	-0	2.33	-	34.33	7.20	35.34
PK	5.3692G	61.50	74.00	-12.50	55.10	3	Horizontal	-0	2.33	-	34.54	7.20	35.34
AV	5.3764G	50.28	54.00	-3.72	43.88	3	Horizontal	-0	2.33	-	34.55	7.20	35.35

ac40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

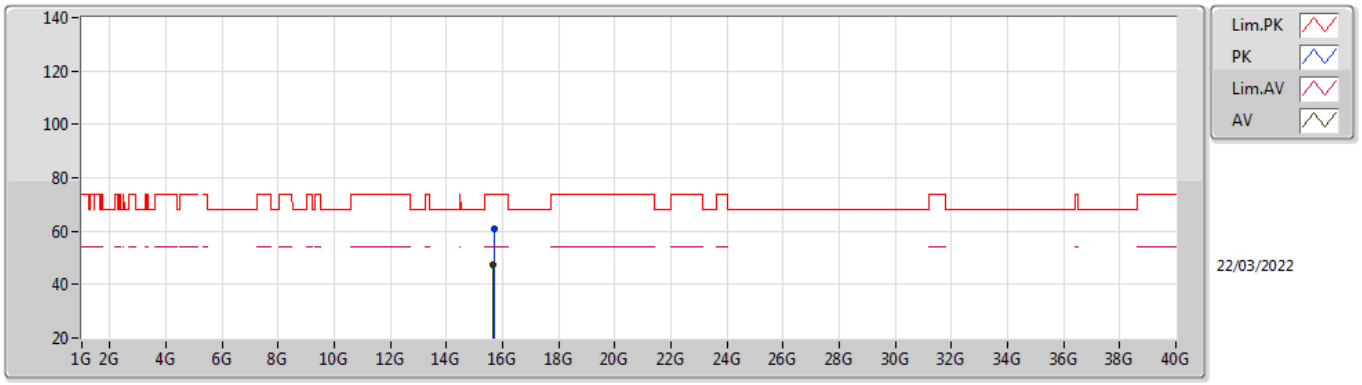


EUT X_2TX
Setting 24
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.6885G	60.86	74.00	-13.14	45.59	3	Vertical	234	1.80	-	37.56	13.24	35.53
AV	15.67806G	47.78	54.00	-6.22	32.45	3	Vertical	234	1.80	-	37.61	13.24	35.52

ac40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

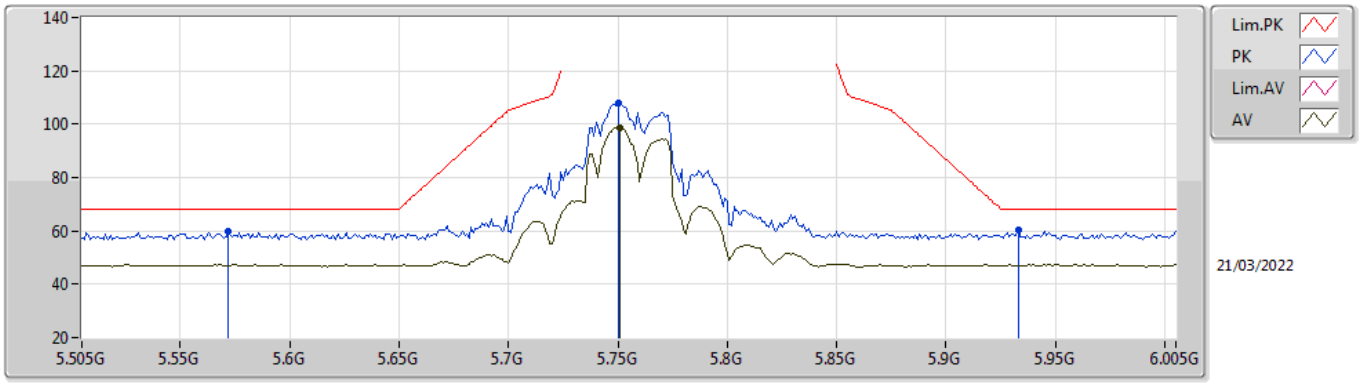


EUT X_2TX
Setting 24
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.70014G	60.67	74.00	-13.33	45.46	3	Horizontal	340	1.88	-	37.50	13.25	35.54
AV	15.67716G	47.51	54.00	-6.49	32.18	3	Horizontal	340	1.88	-	37.61	13.24	35.52

ac40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

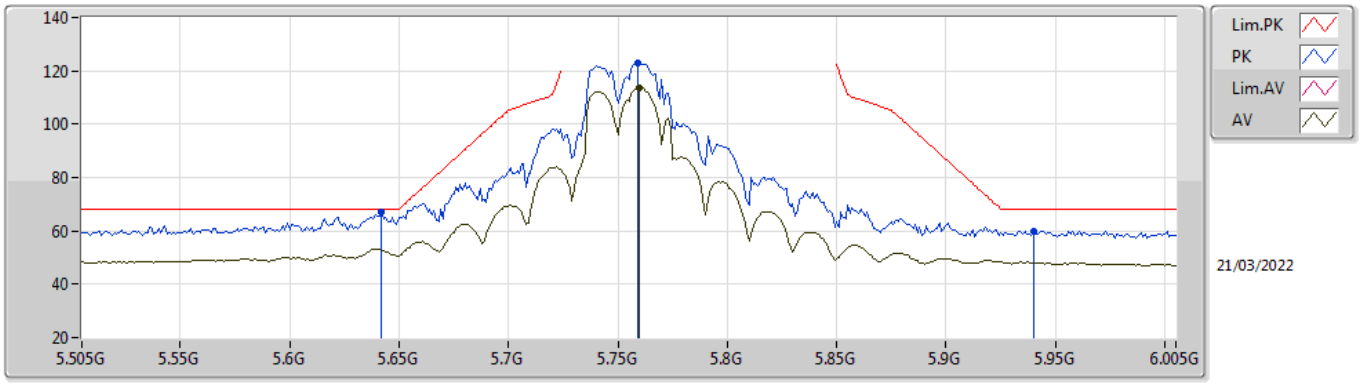


EUT X_2TX
Setting 25
03-C-E-2-10

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	5.572G	59.88	68.20	-8.32	53.30	3	Vertical	247	1.19	-	34.60	7.37	35.39
PK	5.75G	108.05	Inf	-Inf	101.93	3	Vertical	247	1.19	-	34.20	7.40	35.48
AV	5.751G	98.50	Inf	-Inf	92.38	3	Vertical	247	1.19	-	34.20	7.40	35.48
PK	5.933G	60.48	68.20	-7.72	53.79	3	Vertical	247	1.19	-	34.73	7.53	35.57

ac40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

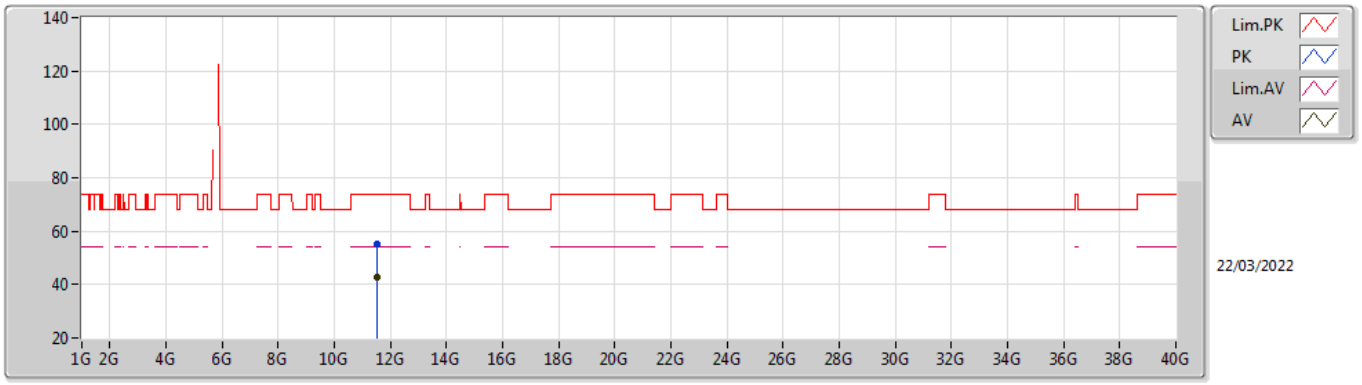


EUT X_2TX
Setting 25
03-C-E-2-10

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	5.642G	67.06	68.20	-1.14	60.56	3	Horizontal	3	2.26	-	34.52	7.40	35.42
PK	5.759G	122.95	Inf	-Inf	116.83	3	Horizontal	3	2.26	-	34.20	7.40	35.48
AV	5.76G	113.63	Inf	-Inf	107.51	3	Horizontal	3	2.26	-	34.20	7.40	35.48
PK	5.94G	59.95	68.20	-8.25	53.22	3	Horizontal	3	2.26	-	34.76	7.54	35.57

ac40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

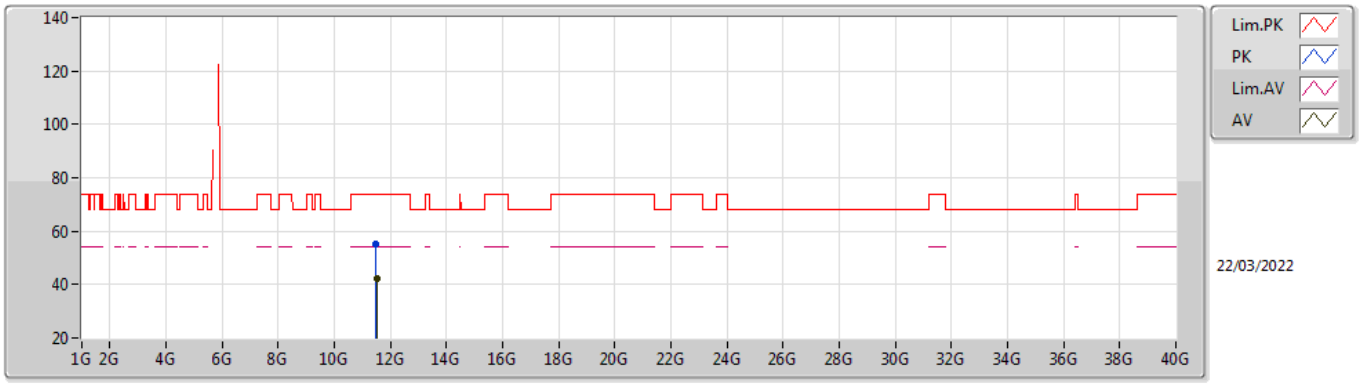


EUT X_2TX
Setting 25
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.51558G	55.32	74.00	-18.68	41.13	3	Vertical	49	2.99	-	39.06	10.73	35.60
AV	11.52356G	42.59	54.00	-11.41	28.36	3	Vertical	49	2.99	-	39.09	10.73	35.59

ac40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

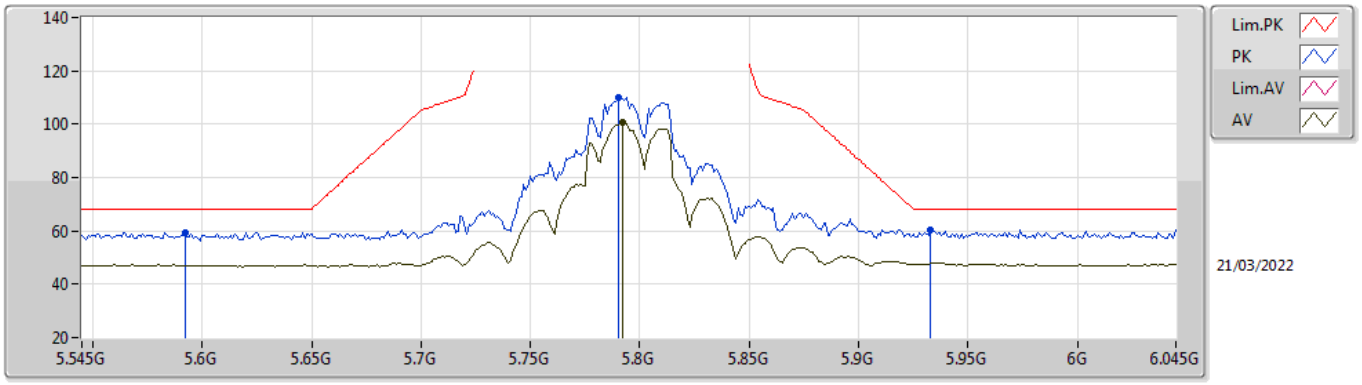


EUT X_2TX
Setting 25
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.49872G	55.17	74.00	-18.83	41.05	3	Horizontal	288	2.81	-	39.00	10.72	35.60
AV	11.52458G	42.49	54.00	-11.51	28.25	3	Horizontal	288	2.81	-	39.10	10.73	35.59

ac40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

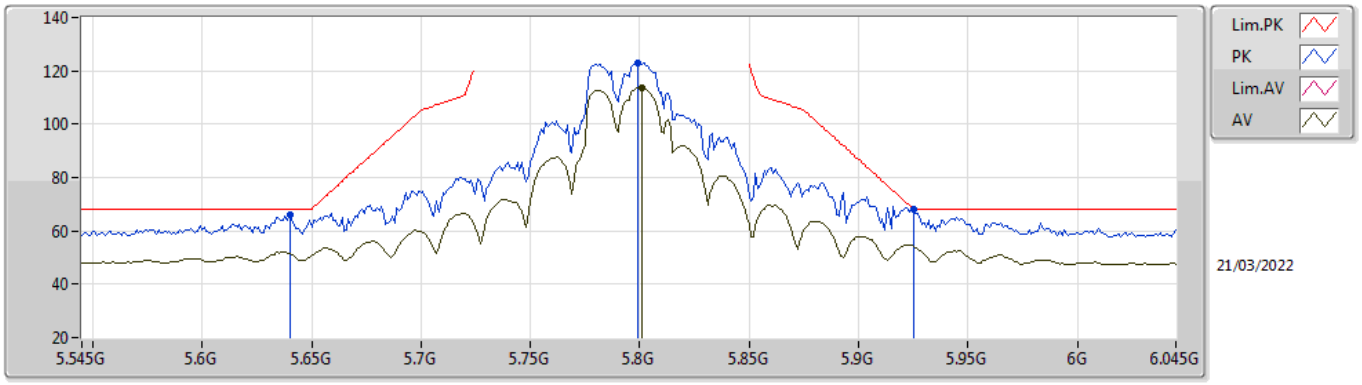


EUT X_2TX
Setting 27
03-C-E-2-10

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	5.592G	59.44	68.20	-8.76	52.85	3	Vertical	250	2.68	-	34.60	7.39	35.40
PK	5.79G	109.89	Inf	-Inf	103.79	3	Vertical	250	2.68	-	34.20	7.40	35.50
AV	5.792G	100.45	Inf	-Inf	94.35	3	Vertical	250	2.68	-	34.20	7.40	35.50
PK	5.933G	60.30	68.20	-7.90	53.61	3	Vertical	250	2.68	-	34.73	7.53	35.57

ac40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

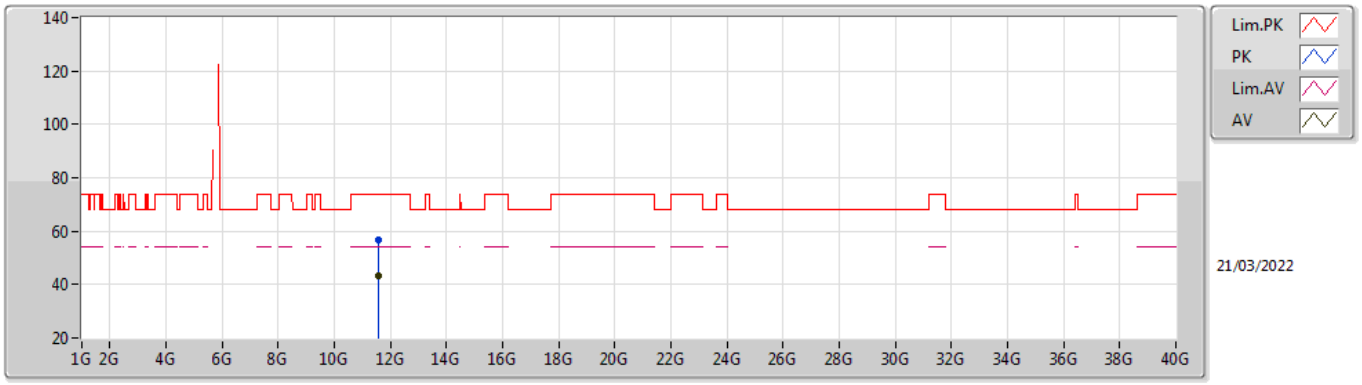


EUT X_2TX
Setting 27
03-C-E-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.64G	66.03	68.20	-2.17	59.53	3	Horizontal	3	2.21	-	34.52	7.40	35.42
PK	5.799G	122.83	Inf	-Inf	116.73	3	Horizontal	3	2.21	-	34.20	7.40	35.50
AV	5.801G	113.65	Inf	-Inf	107.55	3	Horizontal	3	2.21	-	34.20	7.40	35.50
PK	5.925G	68.07	68.20	-0.13	61.40	3	Horizontal	3	2.21	-	34.70	7.53	35.56

ac40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

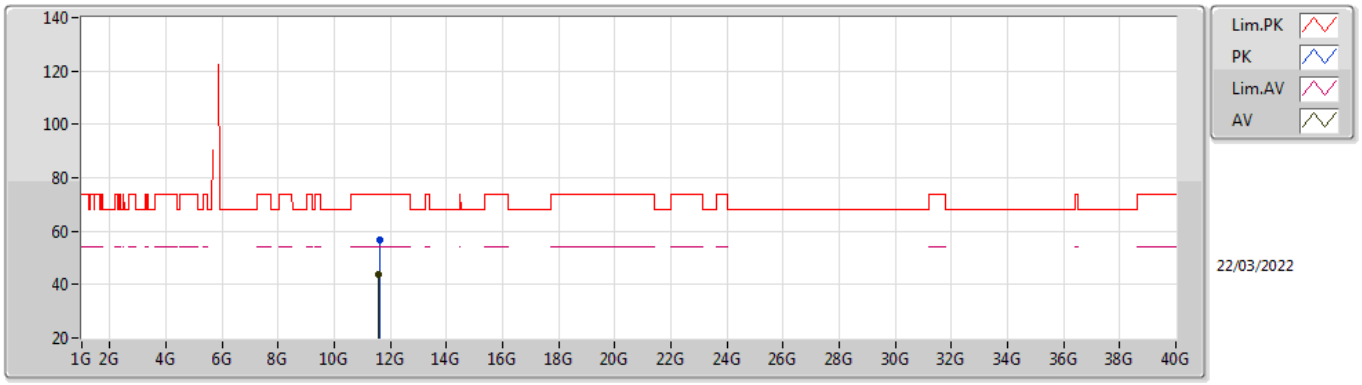


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5762G	56.82	74.00	-17.18	42.36	3	Vertical	189	2.24	-	39.30	10.74	35.58
AV	11.58232G	43.13	54.00	-10.87	28.64	3	Vertical	189	2.24	-	39.33	10.74	35.58

ac40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

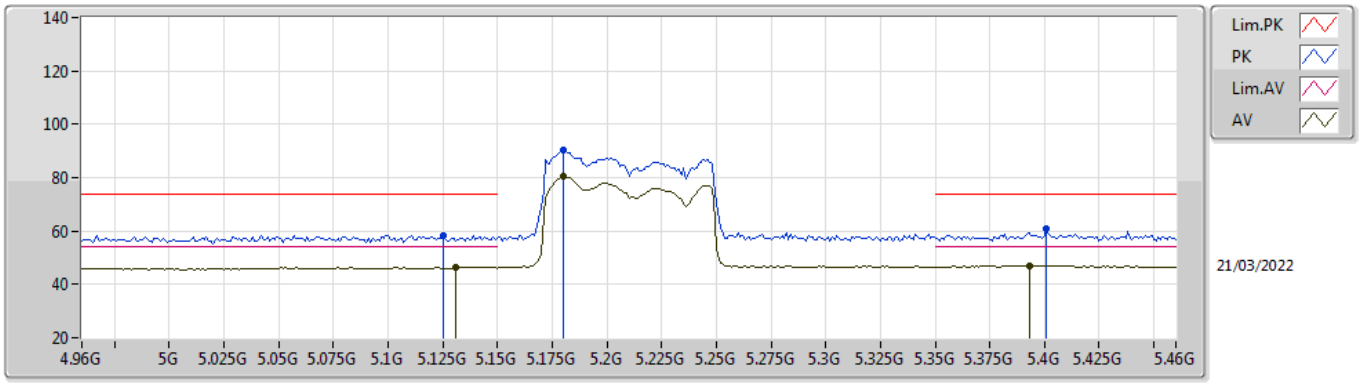


EUT X_2TX
Setting 27
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.60266G	56.89	74.00	-17.11	42.33	3	Horizontal	0	1.80	-	39.40	10.74	35.58
AV	11.58622G	43.70	54.00	-10.30	29.20	3	Horizontal	0	1.80	-	39.34	10.74	35.58

ac80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

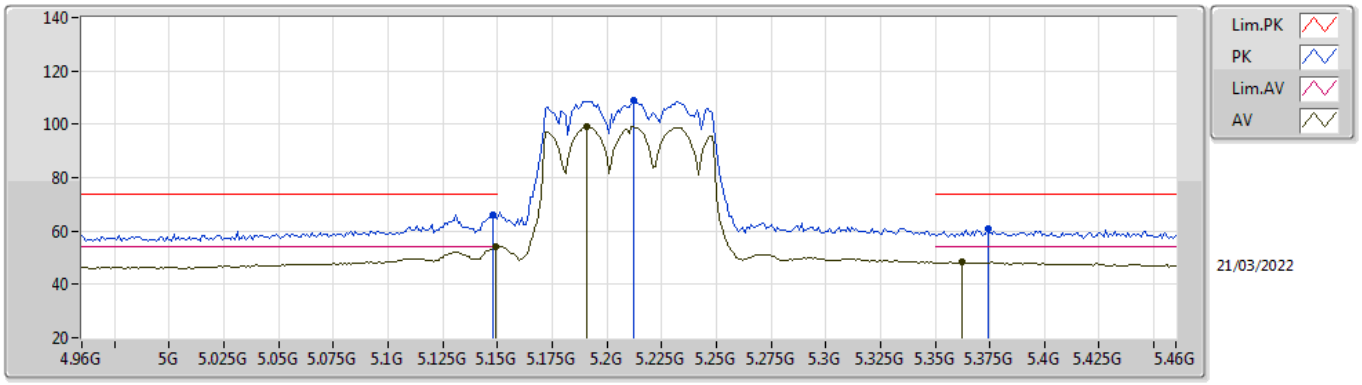


EUT X_2TX
Setting 14
03-C-E-2-10

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	5.125G	58.40	74.00	-15.60	52.63	3	Vertical	242	2.78	-	33.95	7.16	35.34
AV	5.131G	46.41	54.00	-7.59	40.62	3	Vertical	242	2.78	-	33.96	7.17	35.34
PK	5.18G	90.16	Inf	-Inf	84.19	3	Vertical	242	2.78	-	34.12	7.19	35.34
AV	5.18G	80.48	Inf	-Inf	74.51	3	Vertical	242	2.78	-	34.12	7.19	35.34
PK	5.401G	60.62	74.00	-13.38	54.17	3	Vertical	242	2.78	-	34.60	7.20	35.35
AV	5.393G	47.12	54.00	-6.88	40.68	3	Vertical	242	2.78	-	34.59	7.20	35.35

ac80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

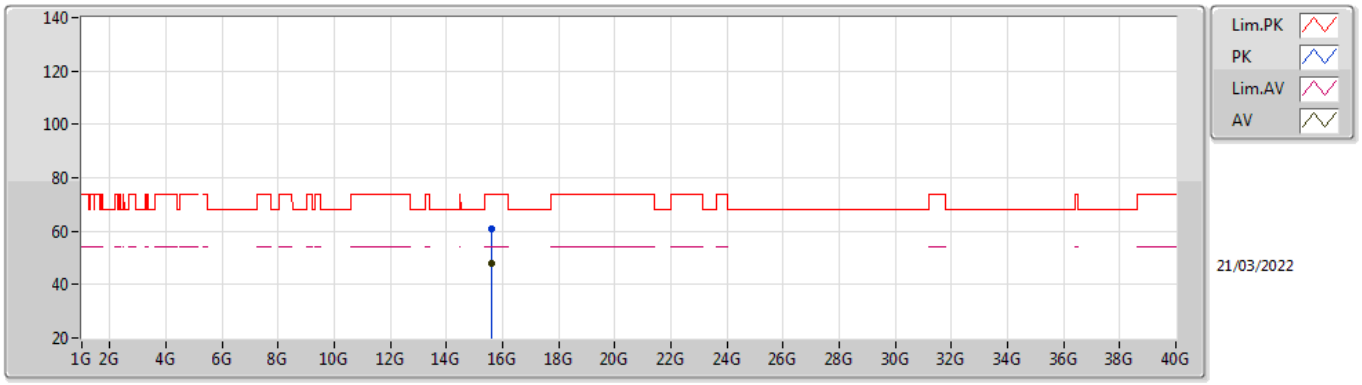


EUT X_2TX
Setting 14
03-C-E-2-10

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	5.148G	65.89	74.00	-8.11	60.06	3	Horizontal	0	2.45	-	34.00	7.17	35.34
AV	5.149G	53.90	54.00	-0.10	48.07	3	Horizontal	0	2.45	-	34.00	7.17	35.34
PK	5.212G	108.87	Inf	-Inf	102.76	3	Horizontal	0	2.45	-	34.25	7.20	35.34
AV	5.191G	99.16	Inf	-Inf	93.14	3	Horizontal	0	2.45	-	34.16	7.20	35.34
PK	5.374G	60.84	74.00	-13.16	54.43	3	Horizontal	0	2.45	-	34.55	7.20	35.34
AV	5.362G	48.24	54.00	-5.76	41.86	3	Horizontal	0	2.45	-	34.52	7.20	35.34

ac80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

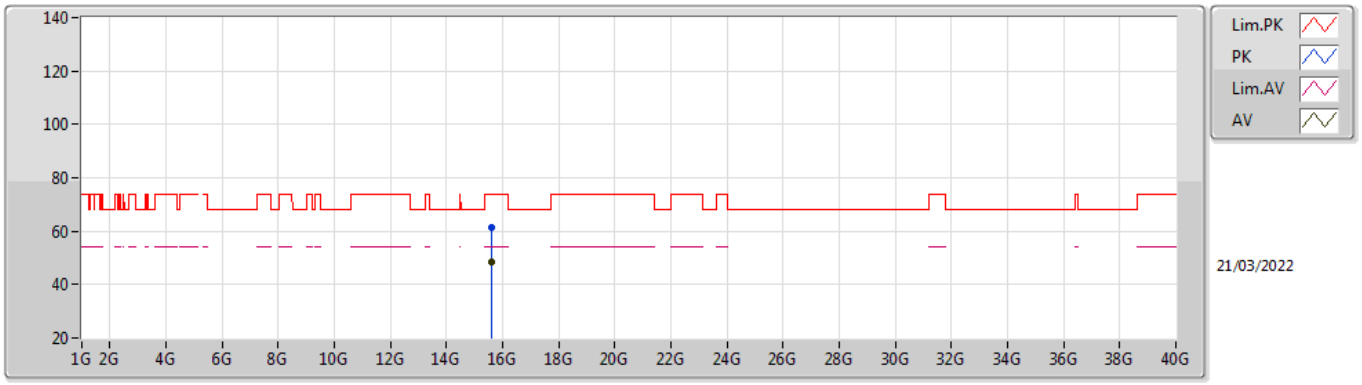


EUT X_2TX
Setting 14
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.62064G	60.82	74.00	-13.18	45.18	3	Vertical	70	1.14	-	37.90	13.21	35.47
AV	15.61722G	48.18	54.00	-5.82	32.53	3	Vertical	70	1.14	-	37.91	13.21	35.47

ac80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

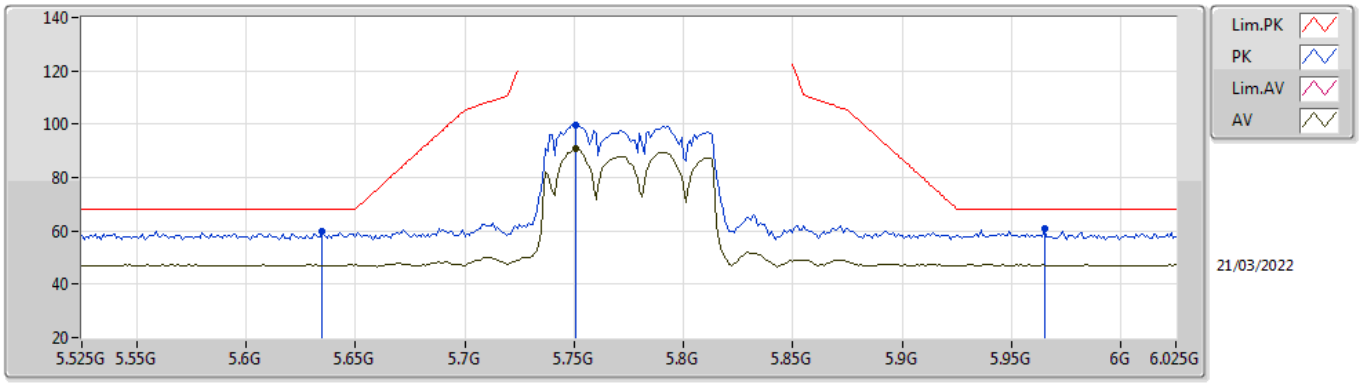


EUT X_2TX
Setting 14
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.61818G	61.30	74.00	-12.70	45.65	3	Horizontal	26	1.01	-	37.91	13.21	35.47
AV	15.6213G	48.39	54.00	-5.61	32.76	3	Horizontal	26	1.01	-	37.89	13.21	35.47

ac80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

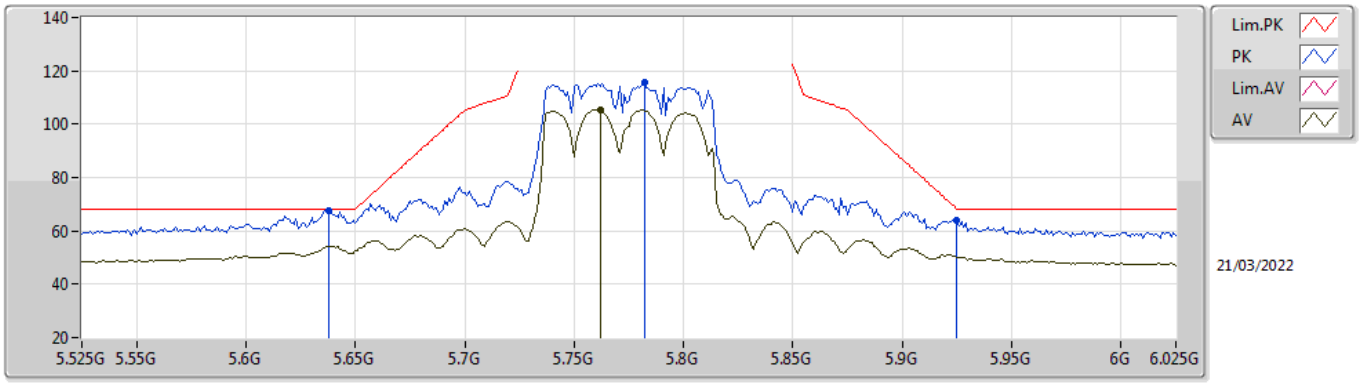


EUT X_2TX
Setting 21.5
03-C-E-2-10

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	5.635G	59.97	68.20	-8.23	53.46	3	Vertical	246	1.19	-	34.53	7.40	35.42
PK	5.751G	99.86	Inf	-Inf	93.74	3	Vertical	246	1.19	-	34.20	7.40	35.48
AV	5.751G	90.62	Inf	-Inf	84.50	3	Vertical	246	1.19	-	34.20	7.40	35.48
PK	5.965G	60.66	68.20	-7.54	53.88	3	Vertical	246	1.19	-	34.80	7.56	35.58

ac80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

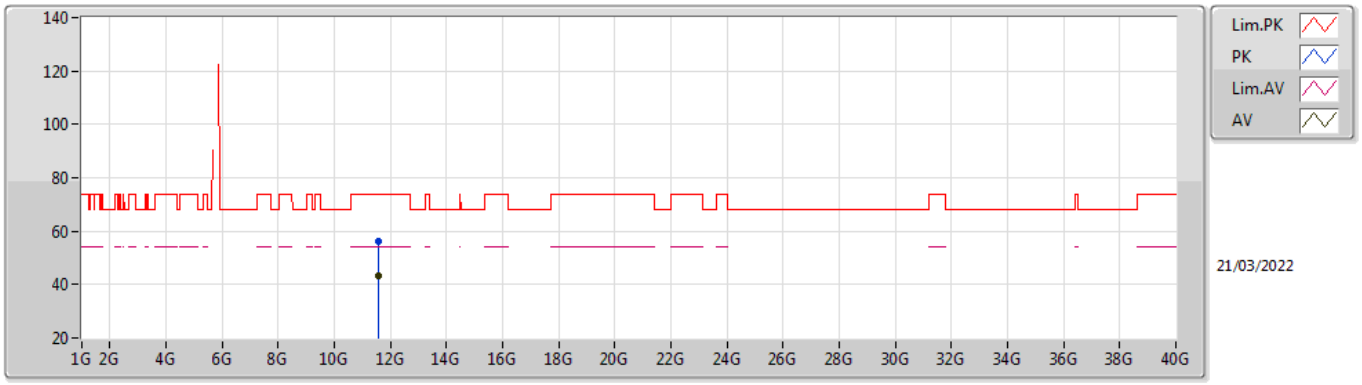


EUT X_2TX
Setting 21.5
03-C-E-2-10

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	67.83	68.20	-0.37	61.33	3	Horizontal	0	2.29	-	34.52	7.40	35.42
PK	5.782G	115.49	Inf	-Inf	109.38	3	Horizontal	0	2.29	-	34.20	7.40	35.49
AV	5.762G	105.55	Inf	-Inf	99.43	3	Horizontal	0	2.29	-	34.20	7.40	35.48
PK	5.925G	64.20	68.20	-4.00	57.53	3	Horizontal	0	2.29	-	34.70	7.53	35.56

ac80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

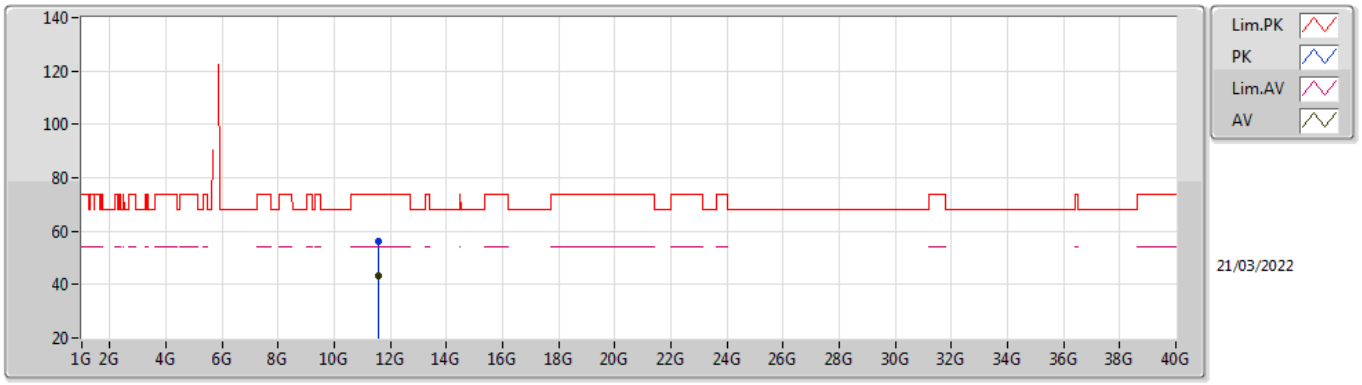


EUT X_2TX
Setting 21.5
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.55018G	56.27	74.00	-17.73	41.93	3	Vertical	228	1.80	-	39.20	10.73	35.59
AV	11.56344G	43.21	54.00	-10.79	28.82	3	Vertical	228	1.80	-	39.25	10.73	35.59

ac80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom



EUT X_2TX
Setting 21.5
03-C-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.55288G	56.23	74.00	-17.77	41.88	3	Horizontal	4	1.80	-	39.21	10.73	35.59
AV	11.56212G	43.48	54.00	-10.52	29.09	3	Horizontal	4	1.80	-	39.25	10.73	35.59