FCC Test Report

FCC ID	:	**BKMAE-STI6200**
Equipment	:	**WLAN/BT Module**
Brand Name	:	**EPSON**
Model Name	:	**STI6200-D101**
Applicant	:	**SEIKO EPSON CORPORATION 3-3-5 Owa Suwa-shi Nagano-ken 392-8502 Japan**
Manufacturer	:	**SEIKO EPSON CORPORATION 6925 Tazawa, Toyoshina Azumino-shi, Nagano 399-8285 Japan**
Standard	:	**47 CFR FCC Part 15.407**

The product was received on Jun. 30, 2020, and testing was started from Jul. 06, 2020 and completed on Jul. 15, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR070125AN	01	Initial issue of report	Jul. 21, 2020
FR070125AN	02	Revised typo (This report is the latest version replacing for the report issued on Jul. 21, 2020.)	Jul. 24, 2020

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 Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Sam Tsai

Report Producer: Ann Hou

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
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	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.	Brand	Model Name	Antenna Type	Connector
1	HONGBO	290-40488	PIFA	I-PEX
2	HONGBO	290-40488	PIFA	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	2	2.34	5.29	-
2	1	2.74	4.50	2.74

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b mode (1TX/2RX)

Only Ant. 2 (port 1) could transmit.

Ant. 1 (port 2) and Ant. 2 (port 1) could receive simultaneously.

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

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 2 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
EUT Function	☐	Outdoor AP	☐	Indoor AP
	☐	Fixed P2P AP	☒	Indoor Client
Beamforming Function	☐	With beamforming	☒	Without beamforming

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.99	0.04	2.065m	10
802.11ac VHT20_Nss1,(MCS0)_2TX	0.979	0.09	993.125u	3k
802.11ac VHT40_Nss1,(MCS0)_2TX	0.961	0.17	500.625u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.925	0.34	256.875u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied 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
- KDB 789033 D02 v02r01

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

- KDB 662911 D01 v02r01
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	23.5~24.1°C / 53~58%	15/Jul/2020
RF Conducted	TH06-HY	Raven	22.4~23.3°C / 54~60%	08/Jul/2020
Radiated	03CH02-HY	Daniel	21.2~27.3°C / 54~61%	06/Jul/2020~ 08/Jul/2020

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software	Dos

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	54
5200MHz	60
5240MHz	67
5745MHz	80
5785MHz	80
5825MHz	80
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	52
5200MHz	54
5240MHz	62
5745MHz	80
5785MHz	80
5825MHz	80
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	58
5230MHz	70
5755MHz	75
5795MHz	80
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	56
5775MHz	68

2.3 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
Operating Mode	CTX
1	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak 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	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	**Z Plane**

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
Refer to Sporton Test Report No.: FA070125 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.4 Accessories

Accessories				
DB1 Antenna	Brand Name	HONGBO	Model Name	290-40488
DB2 Antenna	Brand Name	HONGBO	Model Name	290-40488

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

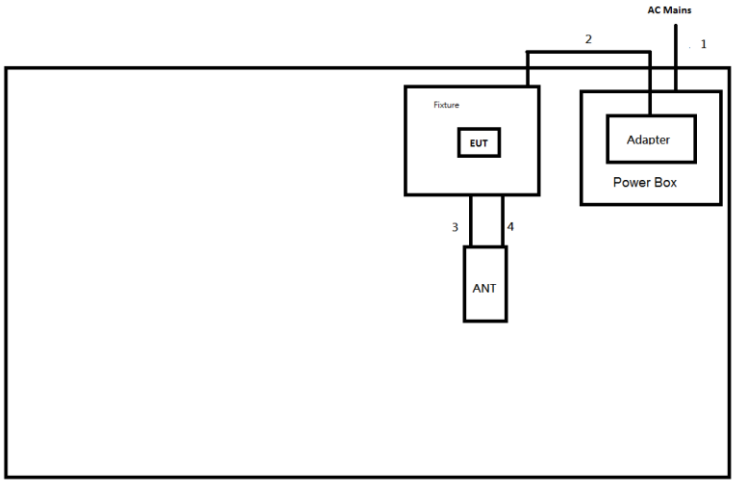
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter	APD	WB-18D12FU	-	Customer Provide
2	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for Notebook	DELL	HA65NM130	-	-
3	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide
4	Adapter	APD	WB-18D12FU	-	Customer Provide

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter	APD	WB-18D12FU	-	Customer Provide
2	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide

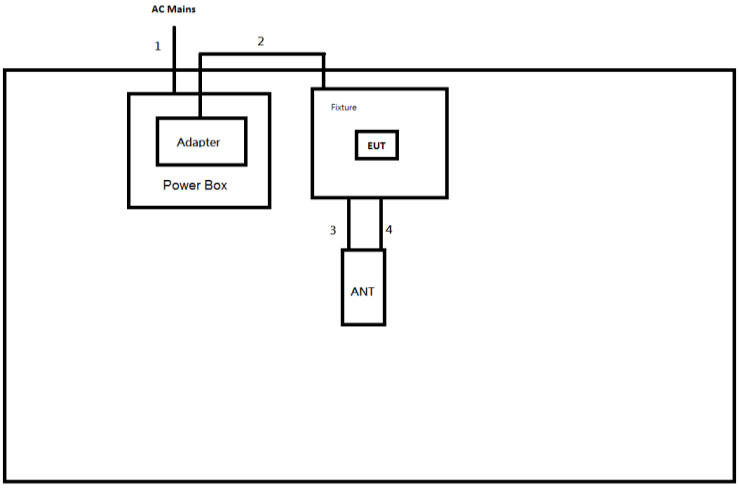
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	Antenna Cable	No	0.15
4	Antenna Cable	No	0.15

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	Antenna Cable	No	0.15
4	Antenna Cable	No	0.15

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

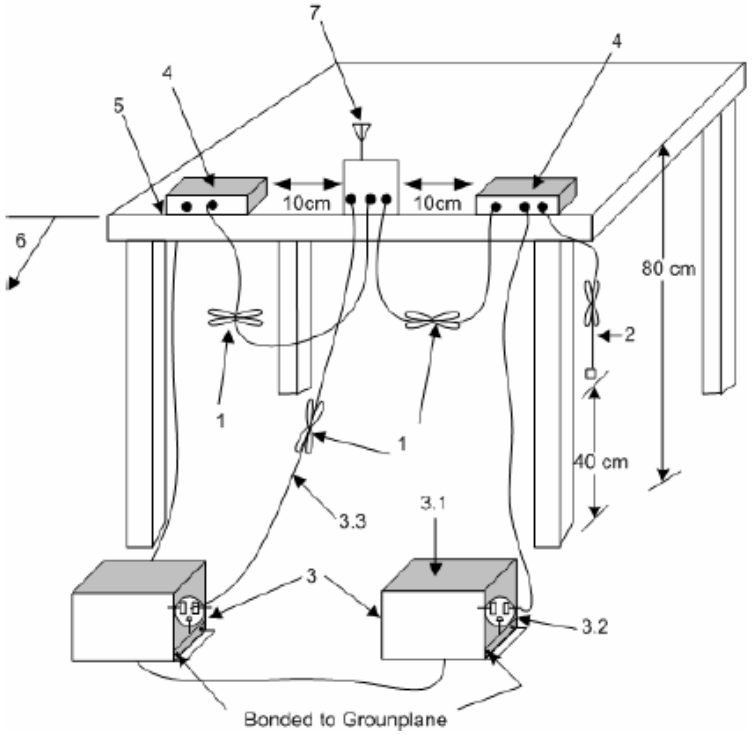
Refer a test equipment and calibration data table in this test report.

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 50Ωloads. 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 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, N/A
☐ For the 5.47-5.725 GHz band, N/A
☒ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

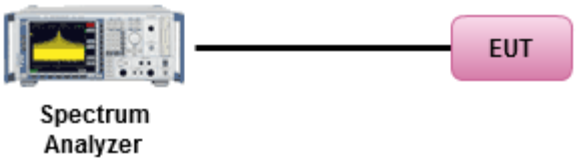
3.2.2 Measuring Instruments

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 KDB 789033, clause C for EBW and clause D for OBW measurement.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
	☐ Refer as IC RSS-Gen, clause 6.7 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 Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted 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.
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

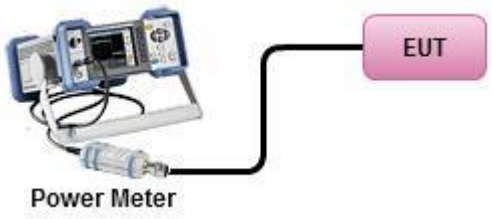
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ Refer as KDB 789033, 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 KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as 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]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density 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.
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.	

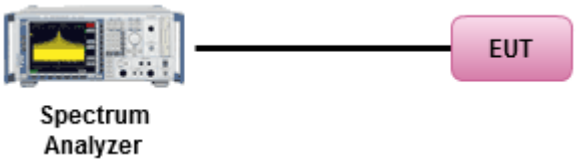
3.4.2 Measuring Instruments

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 KDB 789033, 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%	
	☒ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	Duty cycle < 98%	
	☒ Refer as KDB 789033, 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:	
		▪ Measure and sum the spectra across the outputs. Refer as 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.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated 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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
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).	

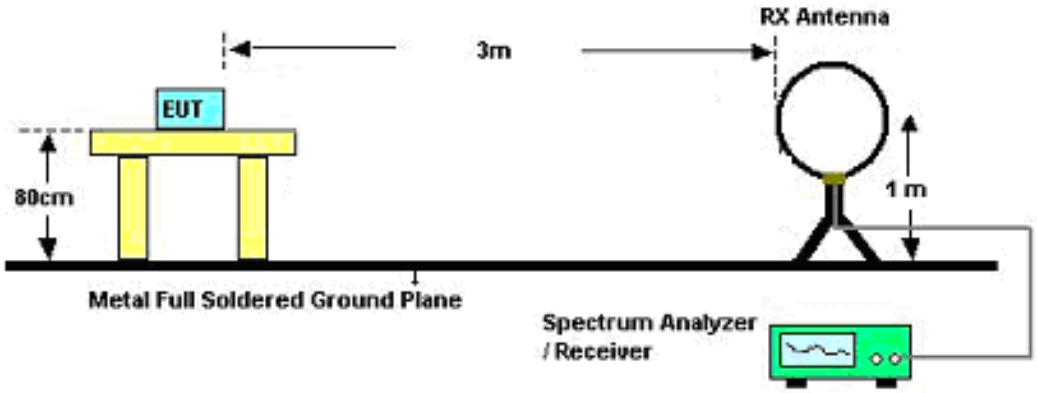
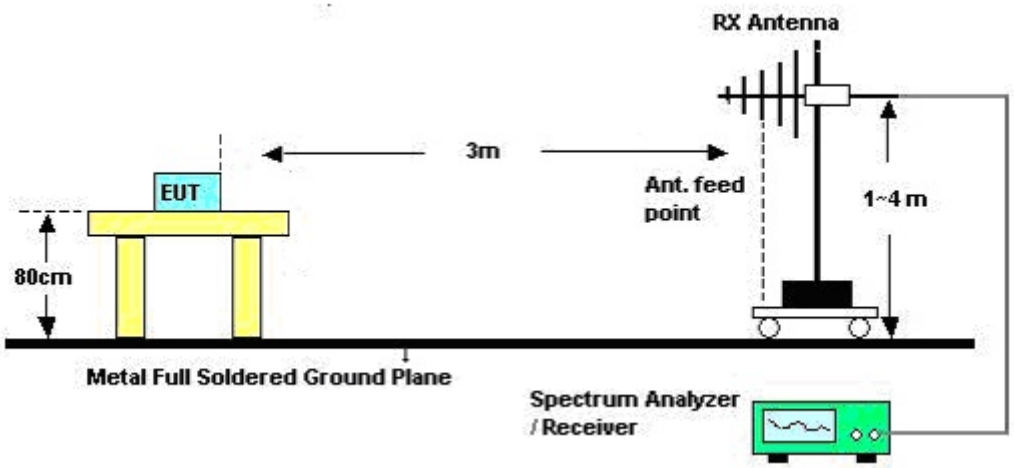
3.5.2 Measuring Instruments

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

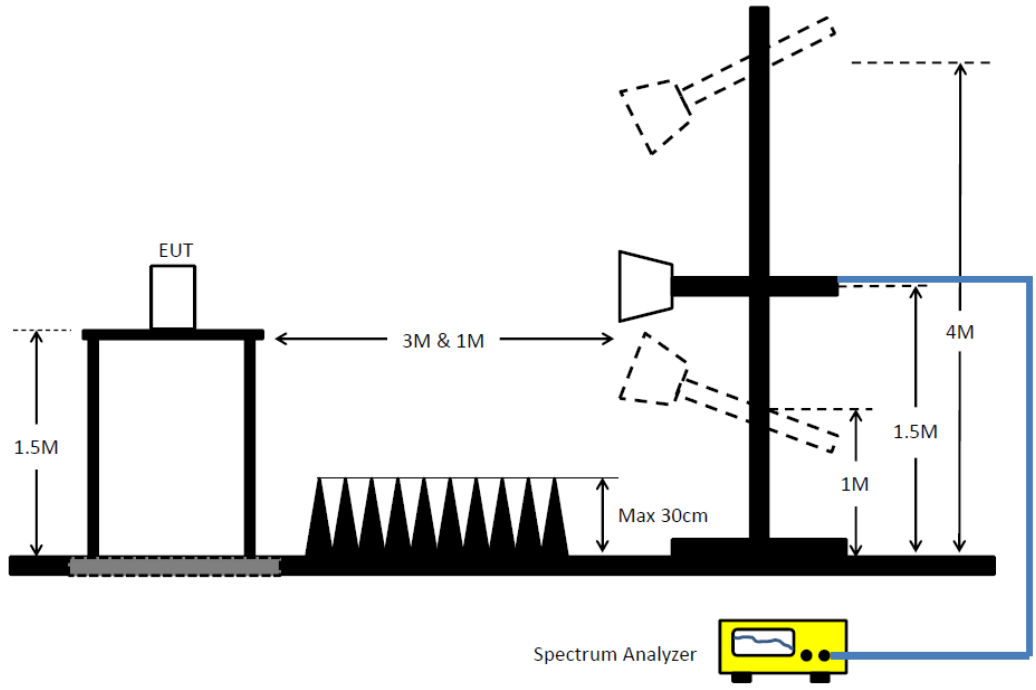
3.5.3 Test Procedures

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 KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒ Refer as KDB 789033, clause G)5) (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.
▪ Use the following spectrum analyzer settings:
▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	9kHz ~ 30MHz	17/Feb/2020	16/Feb/2021
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020
Software	Sporton	SENSE-EMI	V5.10.7.3	-	NCR	NCR

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	29/Aug/2019	28/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	29/Aug/2019	28/Aug/2020
Signal Analyzer	R&S	FSP40	100593	1GHz~26.5GHz	27/Feb/2020	26/Feb/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	16/Oct/2019	15/Oct/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Feb/2020	27/Feb/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

Summary

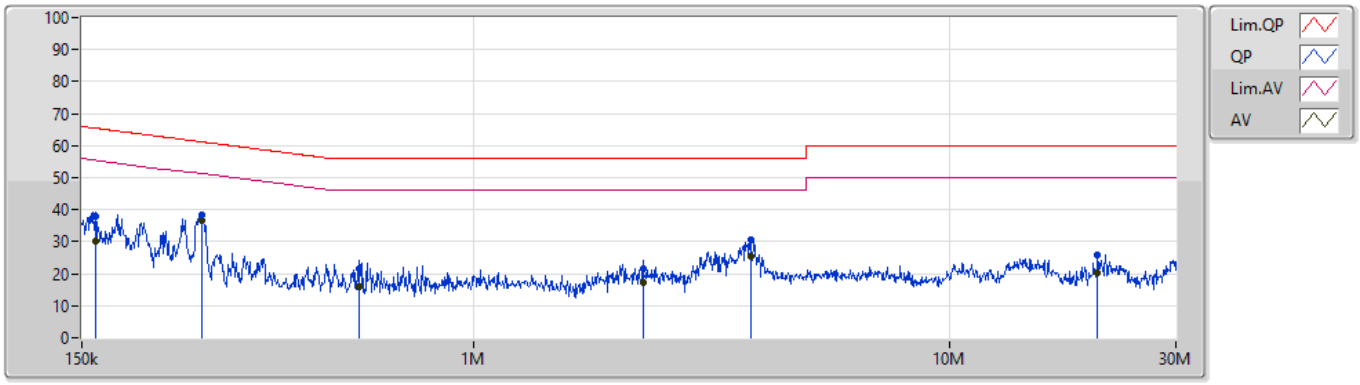
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	266.53k	37.00	51.22	-14.22	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	160.533k	37.81	65.43	-27.62	Line	-
Mode 1	Pass	AV	160.533k	30.32	55.43	-25.11	Line	-
Mode 1	Pass	QP	267.596k	38.16	61.20	-23.04	Line	-
Mode 1	Pass	AV	267.596k	36.56	51.20	-14.64	Line	"Worst"
Mode 1	Pass	QP	575.907k	21.48	56.00	-34.52	Line	-
Mode 1	Pass	AV	575.907k	16.14	46.00	-29.86	Line	-
Mode 1	Pass	QP	2.274M	21.50	56.00	-34.50	Line	-
Mode 1	Pass	AV	2.274M	17.28	46.00	-28.72	Line	-
Mode 1	Pass	QP	3.821M	30.57	56.00	-25.43	Line	-
Mode 1	Pass	AV	3.821M	25.39	46.00	-20.61	Line	-
Mode 1	Pass	QP	20.513M	26.01	60.00	-33.99	Line	-
Mode 1	Pass	AV	20.513M	20.44	50.00	-29.56	Line	-
Mode 1	Pass	QP	151.807k	39.31	65.90	-26.59	Neutral	-
Mode 1	Pass	AV	151.807k	30.44	55.90	-25.46	Neutral	-
Mode 1	Pass	QP	266.53k	38.70	61.22	-22.52	Neutral	-
Mode 1	Pass	AV	266.53k	37.00	51.22	-14.22	Neutral	"Worst"
Mode 1	Pass	QP	512.95k	24.30	56.00	-31.70	Neutral	-
Mode 1	Pass	AV	512.95k	20.95	46.00	-25.05	Neutral	-
Mode 1	Pass	QP	2.074M	24.45	56.00	-31.55	Neutral	-
Mode 1	Pass	AV	2.074M	19.80	46.00	-26.20	Neutral	-
Mode 1	Pass	QP	3.805M	26.60	56.00	-29.40	Neutral	-
Mode 1	Pass	AV	3.805M	22.44	46.00	-23.56	Neutral	-
Mode 1	Pass	QP	22.756M	23.51	60.00	-36.49	Neutral	-
Mode 1	Pass	AV	22.756M	19.03	50.00	-30.97	Neutral	-

Conducted Emissions at Powerline_Mode 1

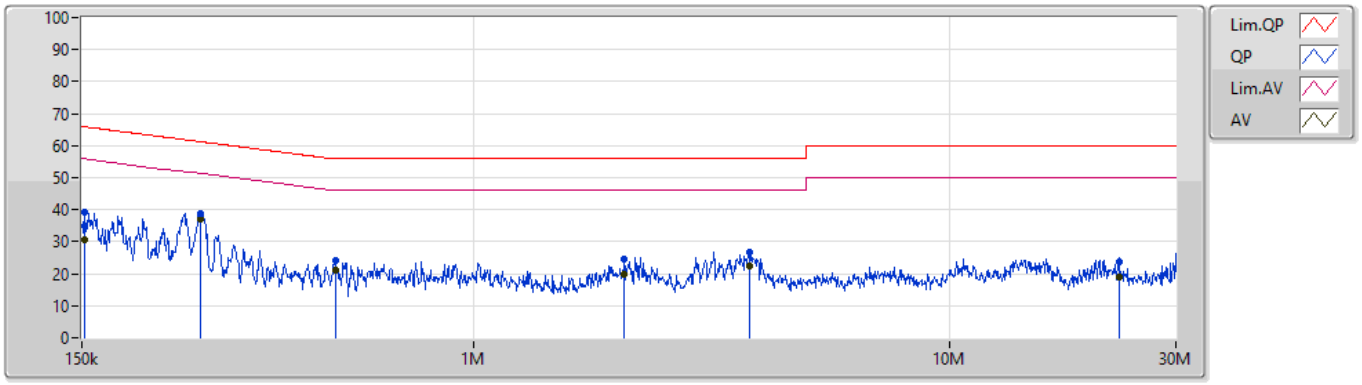
15/07/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	160.533k	37.81	65.43	-27.62	19.64	Line	-	18.17	9.66	0.11	9.87
AV	160.533k	30.32	55.43	-25.11	19.64	Line	-	10.68	9.66	0.11	9.87
QP	267.596k	38.16	61.20	-23.04	19.64	Line	-	18.52	9.65	0.12	9.87
AV	267.596k	36.56	51.20	-14.64	19.64	Line	"Worst"	16.92	9.65	0.12	9.87
QP	575.907k	21.48	56.00	-34.52	19.63	Line	-	1.85	9.64	0.12	9.87
AV	575.907k	16.14	46.00	-29.86	19.63	Line	-	-3.49	9.64	0.12	9.87
QP	2.274M	21.50	56.00	-34.50	19.67	Line	-	1.83	9.65	0.15	9.87
AV	2.274M	17.28	46.00	-28.72	19.67	Line	-	-2.39	9.65	0.15	9.87
QP	3.821M	30.57	56.00	-25.43	19.72	Line	-	10.85	9.66	0.18	9.88
AV	3.821M	25.39	46.00	-20.61	19.72	Line	-	5.67	9.66	0.18	9.88
QP	20.513M	26.01	60.00	-33.99	19.89	Line	-	6.12	9.63	0.37	9.89
AV	20.513M	20.44	50.00	-29.56	19.89	Line	-	0.55	9.63	0.37	9.89

Conducted Emissions at Powerline_Mode 1

15/07/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.807k	39.31	65.90	-26.59	19.63	Neutral	-	19.68	9.65	0.11	9.87
AV	151.807k	30.44	55.90	-25.46	19.63	Neutral	-	10.81	9.65	0.11	9.87
QP	266.53k	38.70	61.22	-22.52	19.63	Neutral	-	19.07	9.64	0.12	9.87
AV	266.53k	37.00	51.22	-14.22	19.63	Neutral	"Worst"	17.37	9.64	0.12	9.87
QP	512.95k	24.30	56.00	-31.70	19.62	Neutral	-	4.68	9.63	0.12	9.87
AV	512.95k	20.95	46.00	-25.05	19.62	Neutral	-	1.33	9.63	0.12	9.87
QP	2.074M	24.45	56.00	-31.55	19.66	Neutral	-	4.79	9.65	0.14	9.87
AV	2.074M	19.80	46.00	-26.20	19.66	Neutral	-	0.14	9.65	0.14	9.87
QP	3.805M	26.60	56.00	-29.40	19.72	Neutral	-	6.88	9.66	0.18	9.88
AV	3.805M	22.44	46.00	-23.56	19.72	Neutral	-	2.72	9.66	0.18	9.88
QP	22.756M	23.51	60.00	-36.49	19.97	Neutral	-	3.54	9.70	0.39	9.88
AV	22.756M	19.03	50.00	-30.97	19.97	Neutral	-	-0.94	9.70	0.39	9.88

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	24.93M	16.648M	16M6D1D	21.54M	16.528M
802.11ac VHT20_Nss1,(MCS0)_2TX	23.73M	17.679M	17M7D1D	21.24M	17.607M
802.11ac VHT40_Nss1,(MCS0)_2TX	61.14M	36.318M	36M3D1D	39.84M	36.078M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.2M	75.706M	75M7D1D	81.72M	75.418M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.29M	25.475M	25M5D1D	15.06M	19.622M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.52M	25.931M	25M9D1D	16.29M	17.703M
802.11ac VHT40_Nss1,(MCS0)_2TX	36M	52.534M	52M5D1D	35.46M	36.462M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.48M	75.802M	75M8D1D	75.12M	75.706M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum99% 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

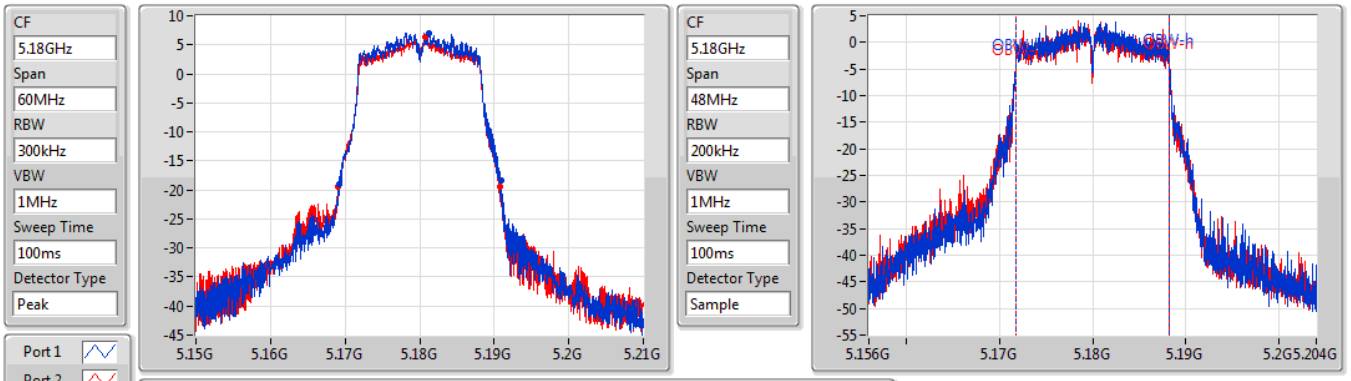
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.75M	16.528M	21.69M	16.552M
5200MHz	Pass	Inf	23.4M	16.552M	21.54M	16.552M
5240MHz	Pass	Inf	24.48M	16.648M	24.93M	16.648M
5745MHz	Pass	500k	15.06M	25.475M	16.29M	20.678M
5785MHz	Pass	500k	15.72M	24.9M	16.29M	19.622M
5825MHz	Pass	500k	16.23M	25.451M	16.29M	20.078M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.24M	17.607M	21.66M	17.655M
5200MHz	Pass	Inf	21.33M	17.655M	21.66M	17.655M
5240MHz	Pass	Inf	22.86M	17.679M	23.73M	17.679M
5745MHz	Pass	500k	16.56M	24.972M	16.29M	20.03M
5785MHz	Pass	500k	16.95M	25.931M	16.53M	20.006M
5825MHz	Pass	500k	17.52M	17.703M	17.52M	17.727M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.84M	36.078M	39.96M	36.078M
5230MHz	Pass	Inf	53.04M	36.318M	61.14M	36.318M
5755MHz	Pass	500k	36M	38.285M	35.46M	36.462M
5795MHz	Pass	500k	35.7M	52.534M	35.7M	42.075M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	75.706M	82.2M	75.418M
5775MHz	Pass	500k	75.48M	75.802M	75.12M	75.706M

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

08/07/2020

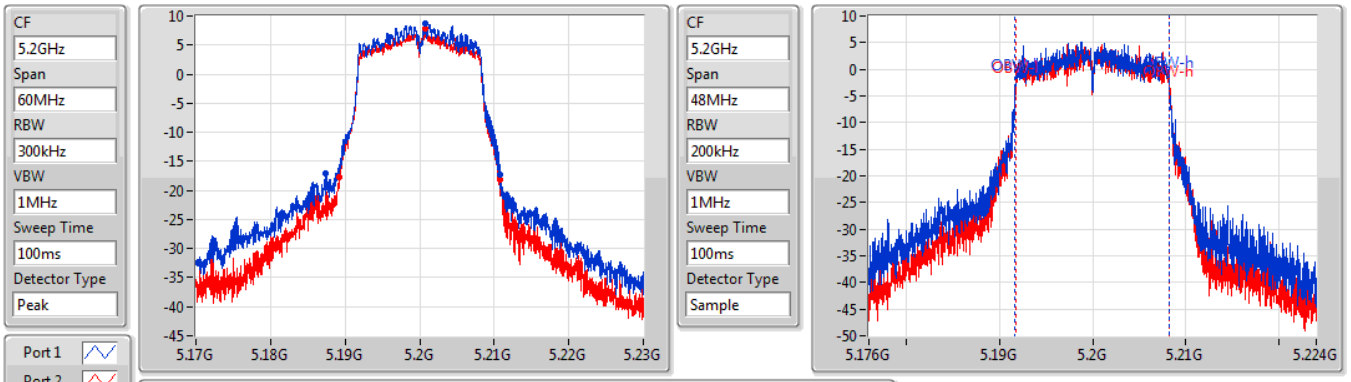


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.16914G	5.19089G	16.528M	5.171724G	5.188252G	Inf	1
21.69M	5.16908G	5.19077G	16.552M	5.171724G	5.188276G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5200MHz

08/07/2020

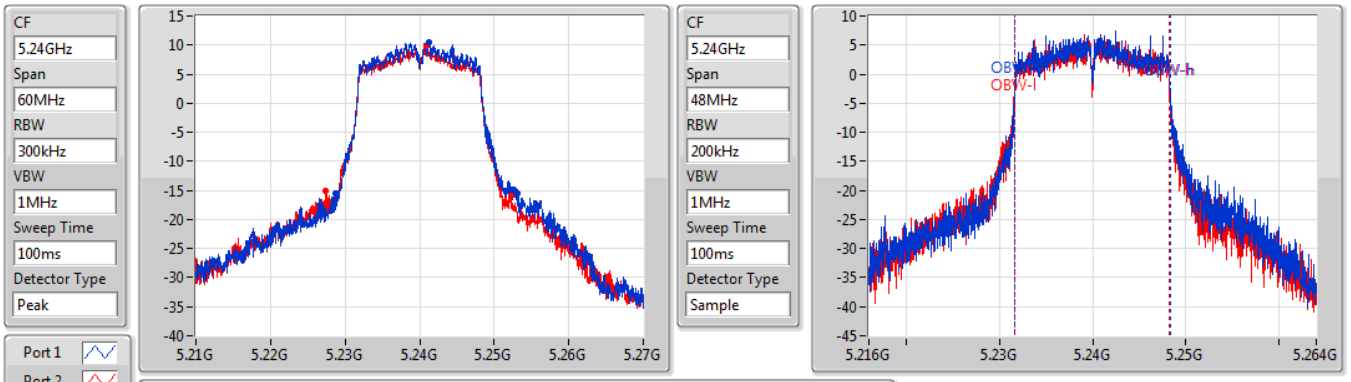


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.4M	5.18746G	5.21086G	16.552M	5.1917G	5.208252G	Inf	1
21.54M	5.18926G	5.2108G	16.552M	5.191724G	5.208276G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5240MHz

08/07/2020

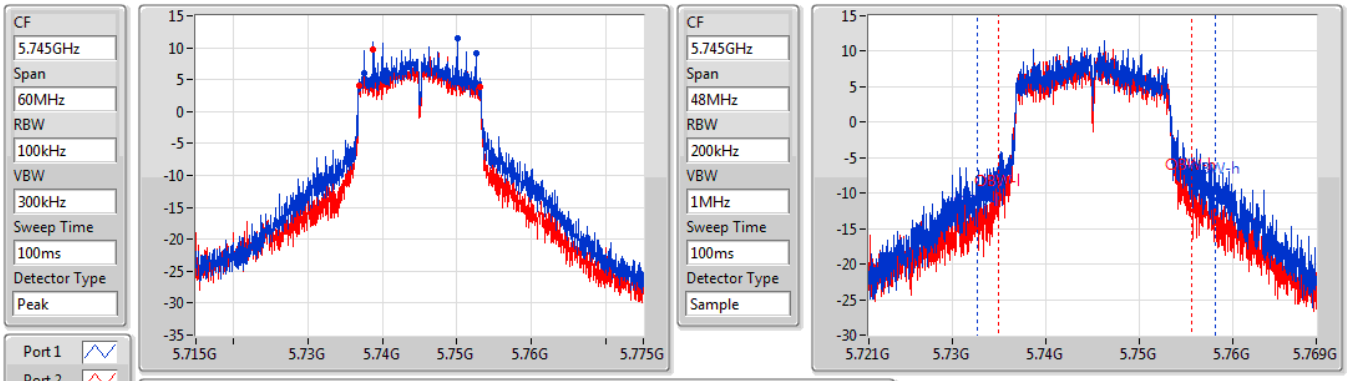


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.48M	5.22872G	5.2532G	16.648M	5.2317G	5.248348G	Inf	1
24.93M	5.2274G	5.25233G	16.648M	5.231628G	5.248276G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5745MHz

08/07/2020

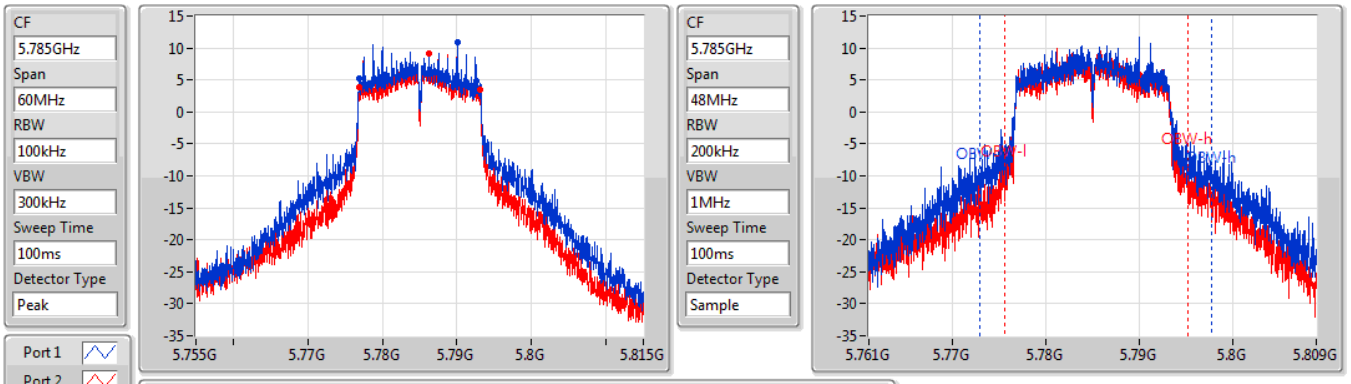


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.06M	5.7375G	5.75256G	25.475M	5.732646G	5.758121G	500k	1
16.29M	5.73687G	5.75316G	20.678M	5.734901G	5.755579G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5785MHz

08/07/2020

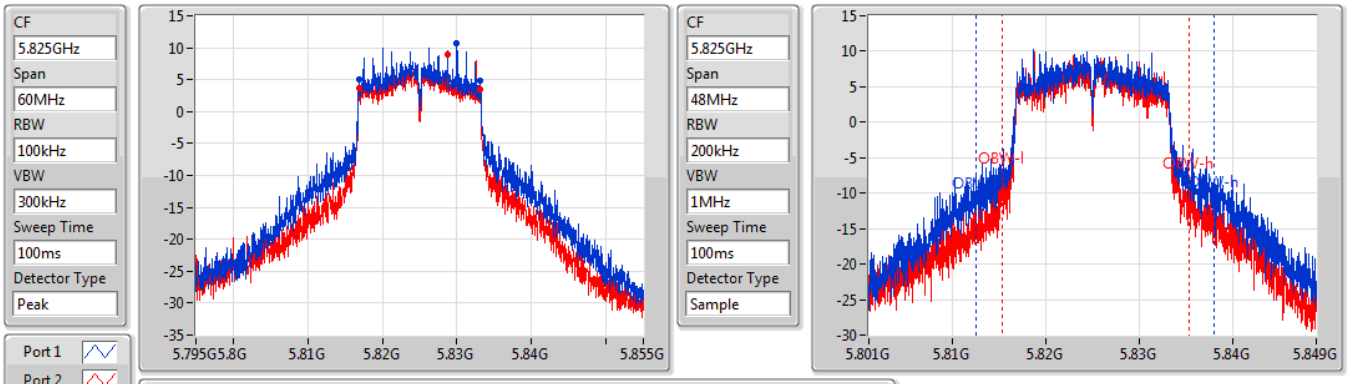


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.72M	5.77687G	5.79259G	24.9M	5.772862G	5.797762G	500k	1
16.29M	5.77687G	5.79316G	19.622M	5.775549G	5.795171G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5825MHz

08/07/2020

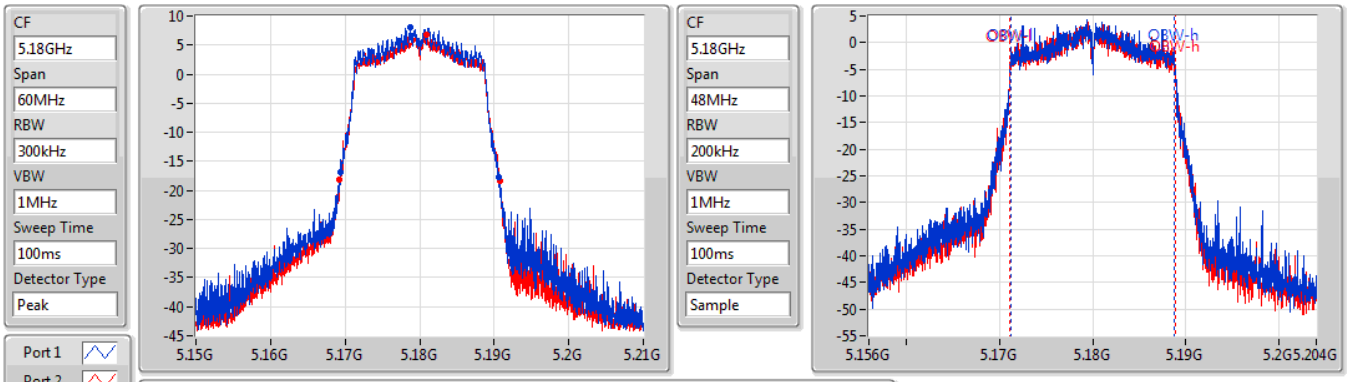


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.23M	5.8169G	5.83313G	25.451M	5.812526G	5.837978G	500k	1
16.29M	5.81687G	5.83316G	20.078M	5.815261G	5.835339G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5180MHz

08/07/2020

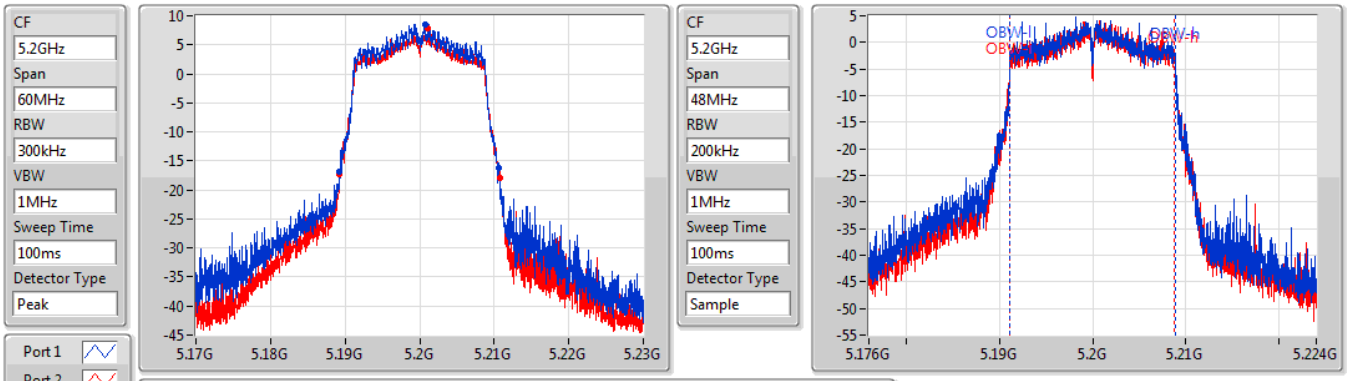


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.24M	5.16935G	5.19059G	17.607M	5.171196G	5.188804G	Inf	1
21.66M	5.16914G	5.1908G	17.655M	5.171172G	5.188828G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5200MHz

08/07/2020

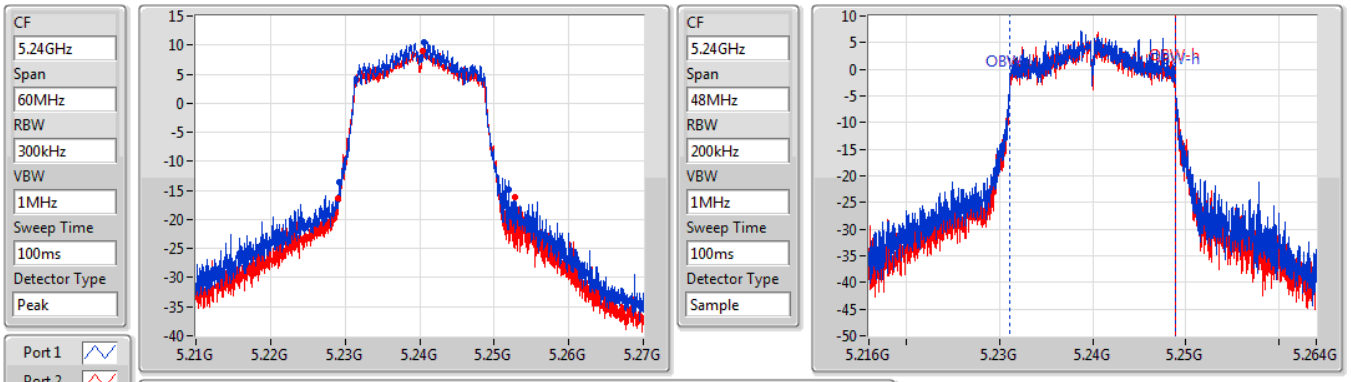


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.33M	5.18929G	5.21062G	17.655M	5.191172G	5.208828G	Inf	1
21.66M	5.18917G	5.21083G	17.655M	5.191148G	5.208804G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5240MHz

08/07/2020

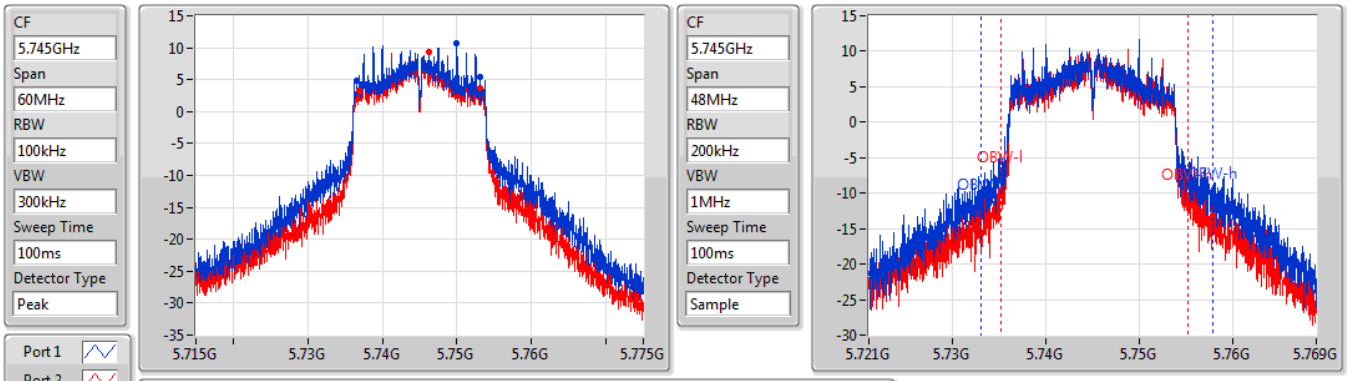


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.86M	5.22914G	5.252G	17.679M	5.231148G	5.248828G	Inf	1
23.73M	5.22908G	5.25281G	17.679M	5.231148G	5.248828G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

08/07/2020

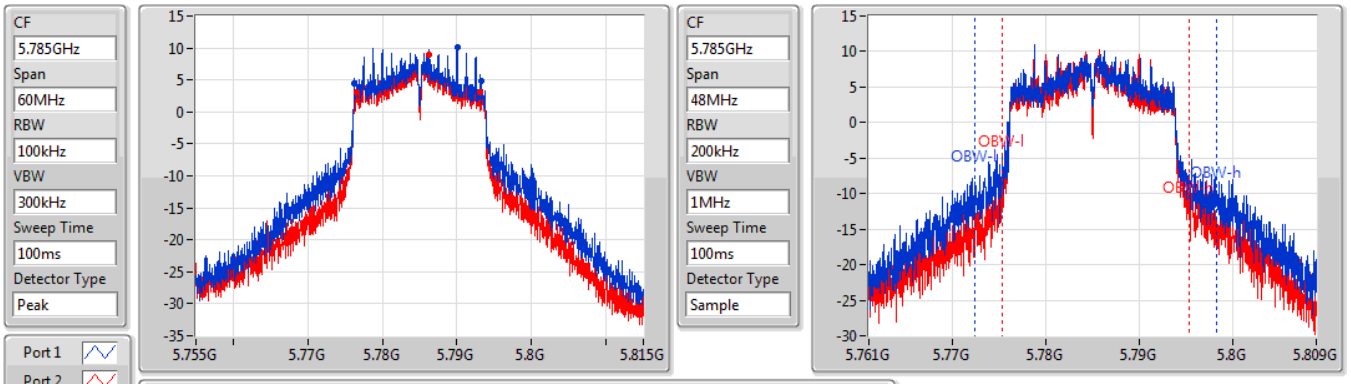


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.56M	5.7366G	5.75316G	24.972M	5.732982G	5.757954G	500k	1
16.29M	5.73687G	5.75316G	20.03M	5.735237G	5.755267G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

08/07/2020

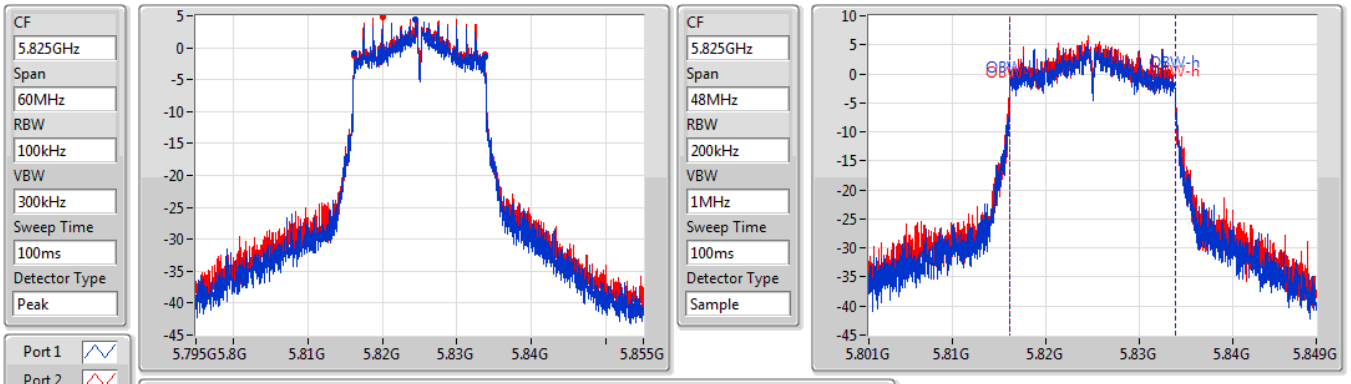


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.95M	5.77624G	5.79319G	25.931M	5.772358G	5.798289G	500k	1
16.53M	5.77657G	5.7931G	20.006M	5.775357G	5.795363G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

08/07/2020

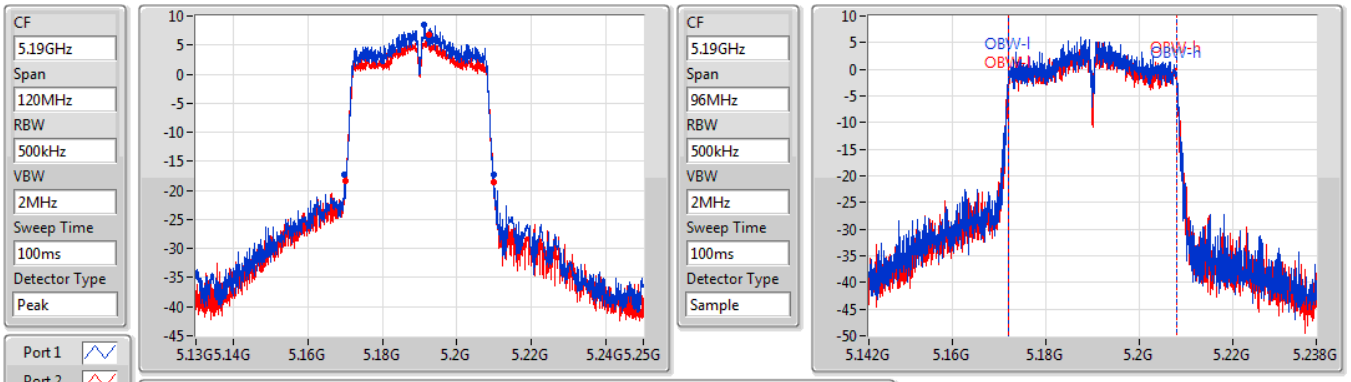


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.52M	5.81624G	5.83376G	17.703M	5.816148G	5.833852G	500k	1
17.52M	5.81624G	5.83376G	17.727M	5.816124G	5.833852G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5190MHz

08/07/2020

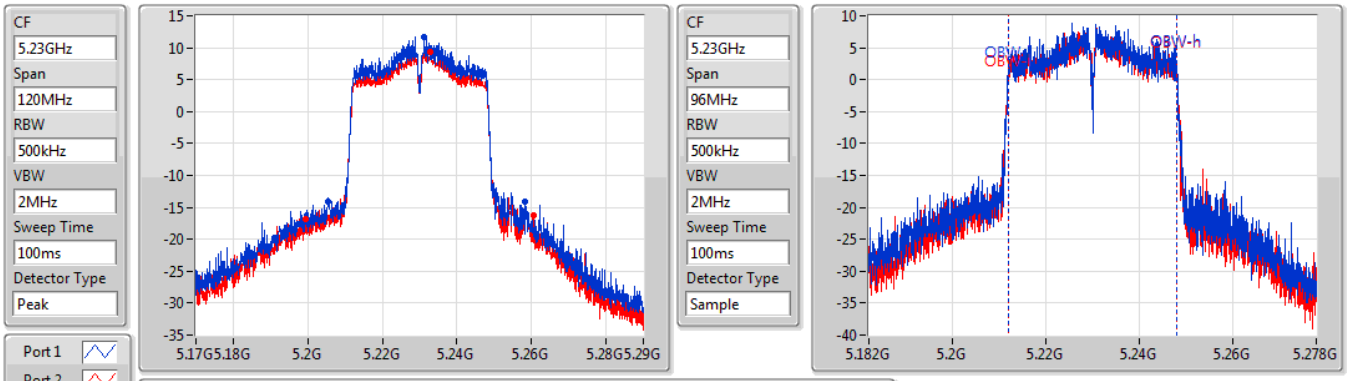


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.84M	5.1699G	5.20974G	36.078M	5.171961G	5.208039G	Inf	1
39.96M	5.16996G	5.20992G	36.078M	5.171913G	5.207991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5230MHz

08/07/2020

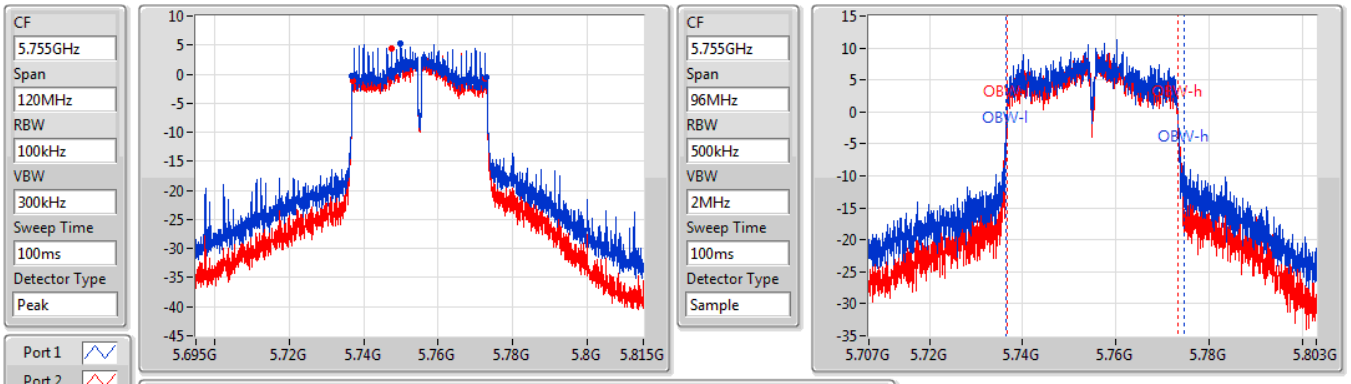


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
53.04M	5.20534G	5.25838G	36.318M	5.211817G	5.248135G	Inf	1
61.14M	5.19934G	5.26048G	36.318M	5.211817G	5.248135G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

08/07/2020

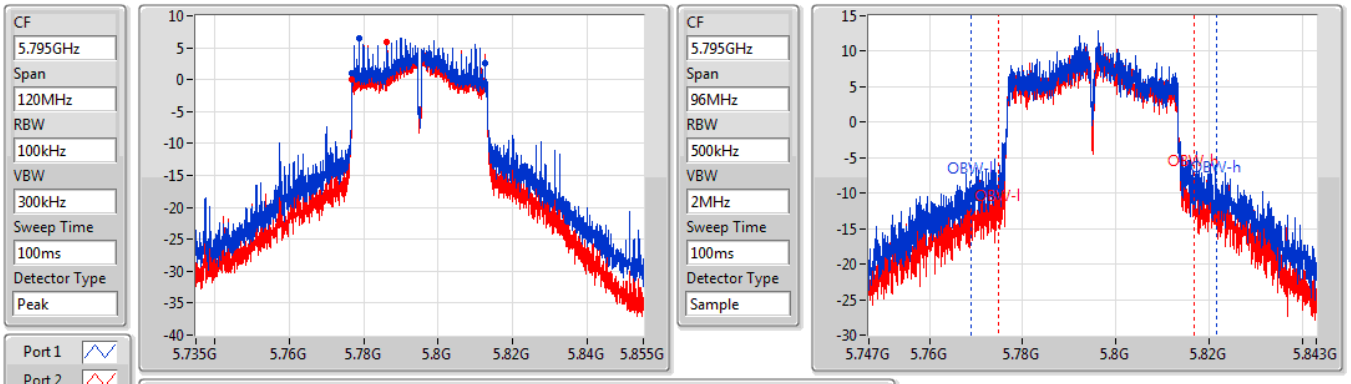


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36M	5.73688G	5.77288G	38.285M	5.736289G	5.774574G	500k	1
35.46M	5.73712G	5.77258G	36.462M	5.736769G	5.773231G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5795MHz

08/07/2020

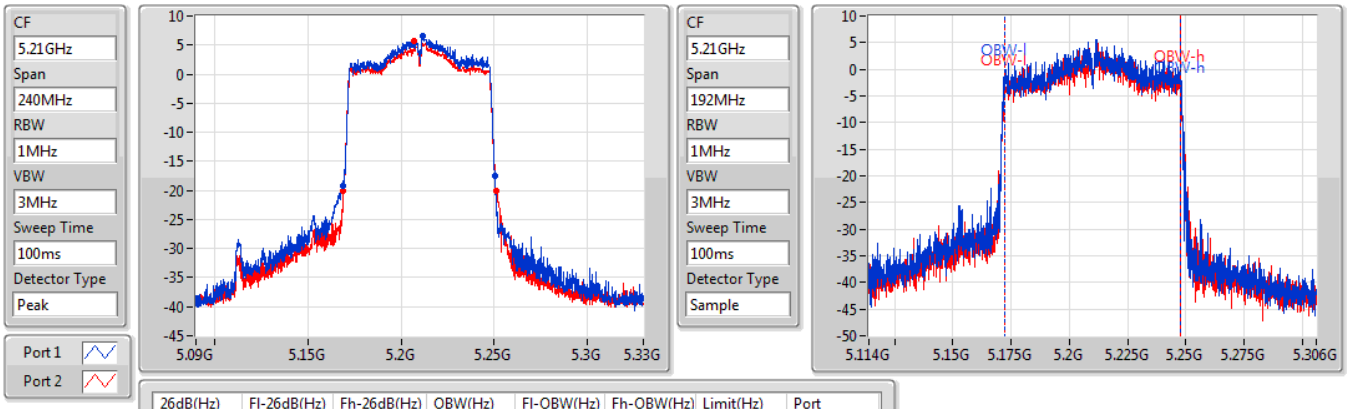


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.7M	5.77688G	5.81258G	52.534M	5.768949G	5.821483G	500k	1
35.7M	5.77688G	5.81258G	42.075M	5.774802G	5.816877G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5210MHz

08/07/2020

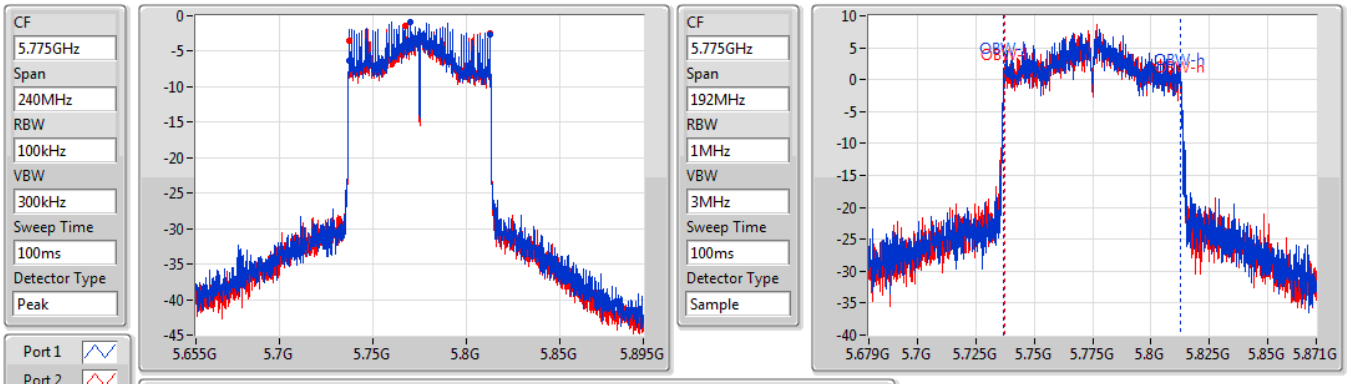


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.72M	5.16872G	5.25044G	75.706M	5.172099G	5.247805G	Inf	1
82.2M	5.16896G	5.25116G	75.418M	5.172291G	5.247709G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz

08/07/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.48M	5.73708G	5.81256G	75.802M	5.737003G	5.812805G	500k	1
75.12M	5.73744G	5.81256G	75.706M	5.737099G	5.812805G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.69	0.11722	25.98	0.39628
802.11ac VHT20_Nss1,(MCS0)_2TX	19.47	0.08851	24.76	0.29923
802.11ac VHT40_Nss1,(MCS0)_2TX	20.21	0.10495	25.50	0.35481
802.11ac VHT80_Nss1,(MCS0)_2TX	15.59	0.03622	20.88	0.12246
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.33	0.21528	28.62	0.72778
802.11ac VHT20_Nss1,(MCS0)_2TX	23.25	0.21135	28.54	0.71450
802.11ac VHT40_Nss1,(MCS0)_2TX	22.84	0.19231	28.13	0.65013
802.11ac VHT80_Nss1,(MCS0)_2TX	18.93	0.07816	24.22	0.26424

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.29	14.67	14.20	17.45	23.98	22.74	30.00
5200MHz	Pass	5.29	16.28	15.58	18.95	23.98	24.24	30.00
5240MHz	Pass	5.29	17.92	17.43	20.69	23.98	25.98	30.00
5745MHz	Pass	5.29	20.72	19.88	23.33	30.00	28.62	36.00
5785MHz	Pass	5.29	20.41	19.68	23.07	30.00	28.36	36.00
5825MHz	Pass	5.29	20.42	19.58	23.03	30.00	28.32	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.29	14.38	13.82	17.12	23.98	22.41	30.00
5200MHz	Pass	5.29	14.65	14.13	17.41	23.98	22.70	30.00
5240MHz	Pass	5.29	16.65	16.26	19.47	23.98	24.76	30.00
5745MHz	Pass	5.29	20.58	19.88	23.25	30.00	28.54	36.00
5785MHz	Pass	5.29	20.37	19.63	23.03	30.00	28.32	36.00
5825MHz	Pass	5.29	15.61	16.10	18.87	30.00	24.16	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.29	14.33	13.82	17.09	23.98	22.38	30.00
5230MHz	Pass	5.29	17.36	17.03	20.21	23.98	25.50	30.00
5755MHz	Pass	5.29	18.93	18.19	21.59	30.00	26.88	36.00
5795MHz	Pass	5.29	20.14	19.50	22.84	30.00	28.13	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.29	12.79	12.35	15.59	23.98	20.88	30.00
5775MHz	Pass	5.29	16.05	15.78	18.93	30.00	24.22	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.99	16.90
802.11ac VHT20_Nss1,(MCS0)_2TX	8.57	16.48
802.11ac VHT40_Nss1,(MCS0)_2TX	6.42	14.33
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.11	6.80
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.80	18.71
802.11ac VHT20_Nss1,(MCS0)_2TX	10.91	18.82
802.11ac VHT40_Nss1,(MCS0)_2TX	7.37	15.28
802.11ac VHT80_Nss1,(MCS0)_2TX	0.51	8.42

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

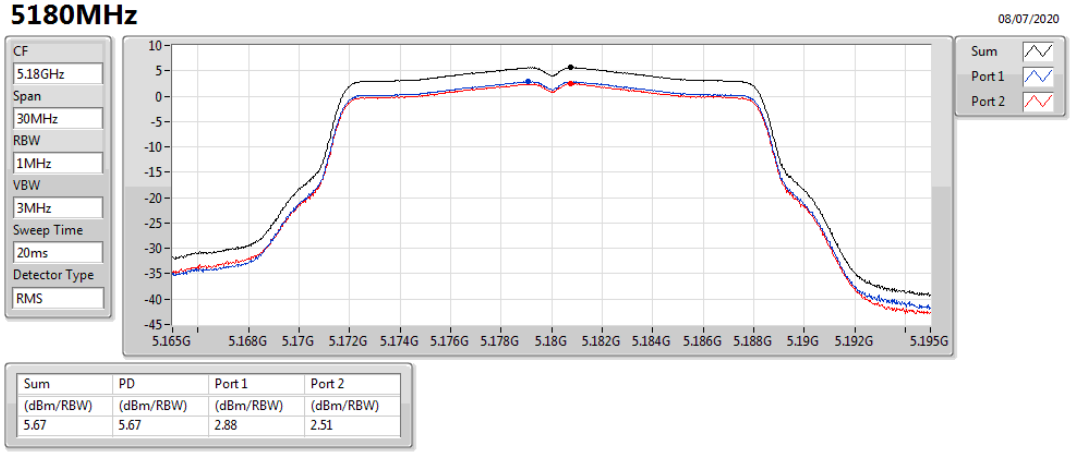
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.91	2.88	2.51	5.67	9.09	13.58	17.00
5200MHz	Pass	7.91	4.53	3.76	7.13	9.09	15.04	17.00
5240MHz	Pass	7.91	6.25	5.76	8.99	9.09	16.90	17.00
5745MHz	Pass	7.91	8.38	7.33	10.80	28.09	18.71	36.00
5785MHz	Pass	7.91	7.74	6.70	10.25	28.09	18.16	36.00
5825MHz	Pass	7.91	7.63	6.54	10.10	28.09	18.01	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.91	3.38	2.98	6.15	9.09	14.06	17.00
5200MHz	Pass	7.91	3.78	3.19	6.45	9.09	14.36	17.00
5240MHz	Pass	7.91	5.77	5.39	8.57	9.09	16.48	17.00
5745MHz	Pass	7.91	8.20	7.64	10.91	28.09	18.82	36.00
5785MHz	Pass	7.91	7.85	7.27	10.56	28.09	18.47	36.00
5825MHz	Pass	7.91	3.21	3.75	6.41	28.09	14.32	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.91	0.58	-0.02	3.18	9.09	11.09	17.00
5230MHz	Pass	7.91	3.59	3.43	6.42	9.09	14.33	17.00
5755MHz	Pass	7.91	3.66	3.04	6.37	28.09	14.28	36.00
5795MHz	Pass	7.91	4.72	4.07	7.37	28.09	15.28	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.91	-3.90	-4.35	-1.11	9.09	6.80	17.00
5775MHz	Pass	7.91	-2.37	-2.63	0.51	28.09	8.42	36.00

DG = Directional Gain; **RBW** = 500 kHz 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;

802.11a_Nss1,(6Mbps)_2TX PSD

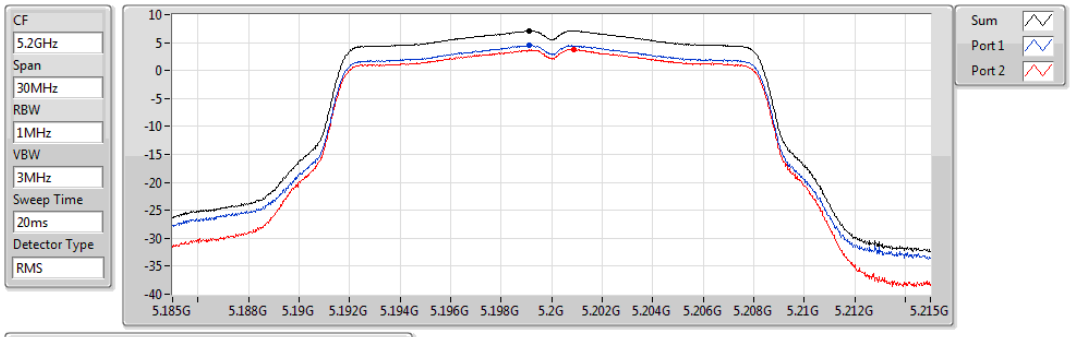
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.67	5.67	2.88	2.51

802.11a_Nss1,(6Mbps)_2TX PSD

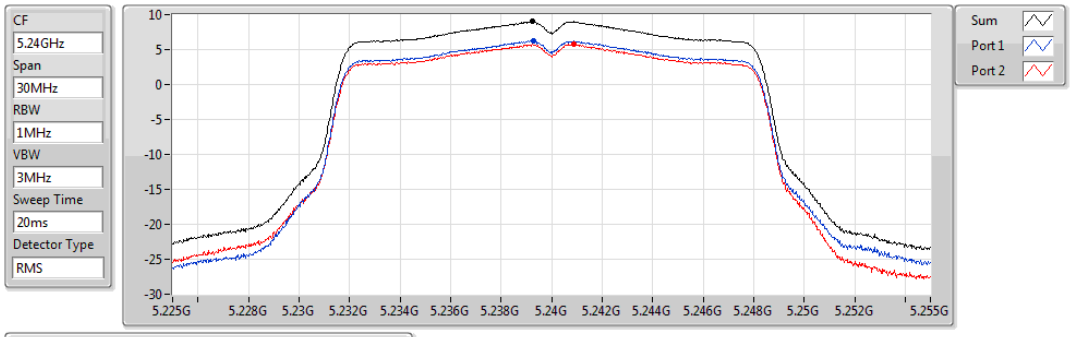
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.13	7.13	4.53	3.76

802.11a_Nss1,(6Mbps)_2TX PSD

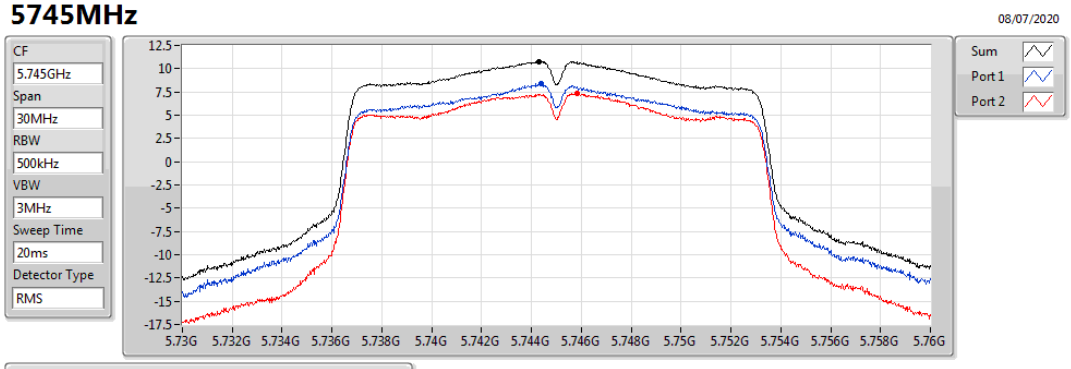
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.99	8.99	6.25	5.76

802.11a_Nss1,(6Mbps)_2TX PSD

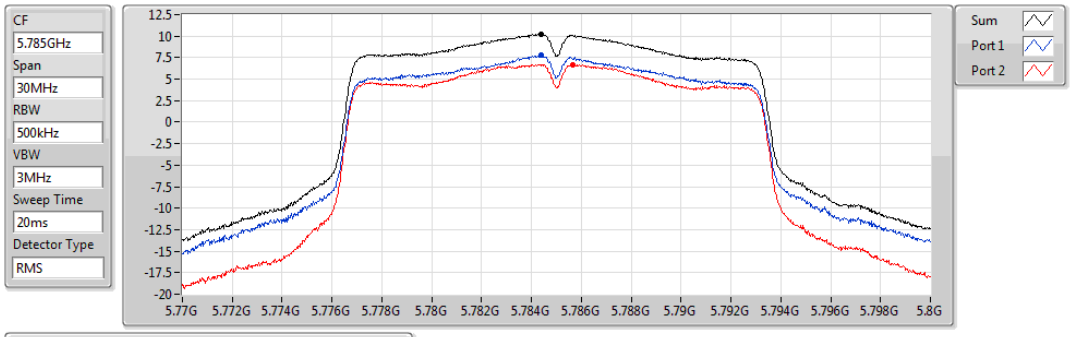
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.80	10.80	8.38	7.33

802.11a_Nss1,(6Mbps)_2TX PSD

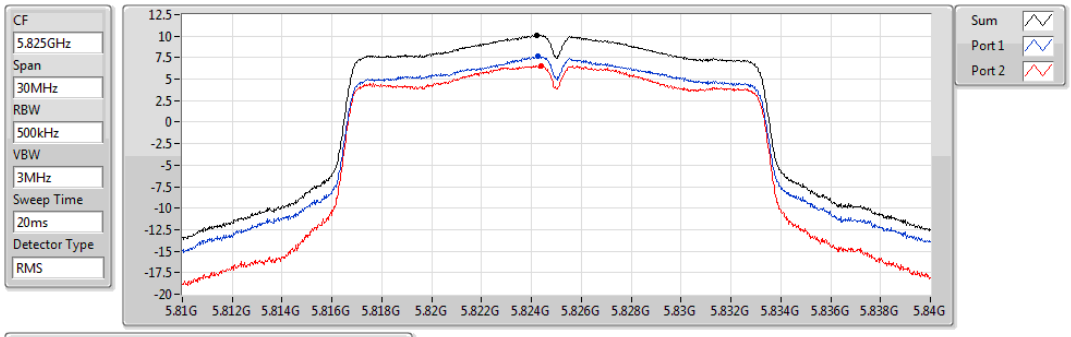
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.25	10.25	7.74	6.70

802.11a_Nss1,(6Mbps)_2TX PSD

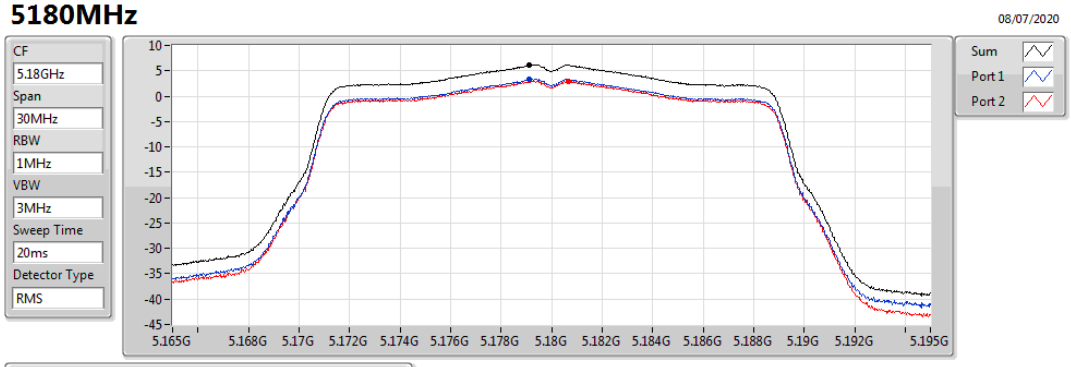
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.10	10.10	7.63	6.54

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

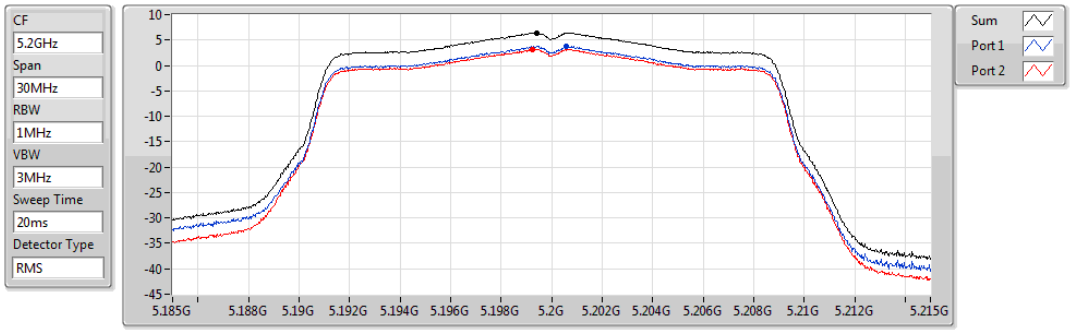
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.15	6.15	3.38	2.98

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

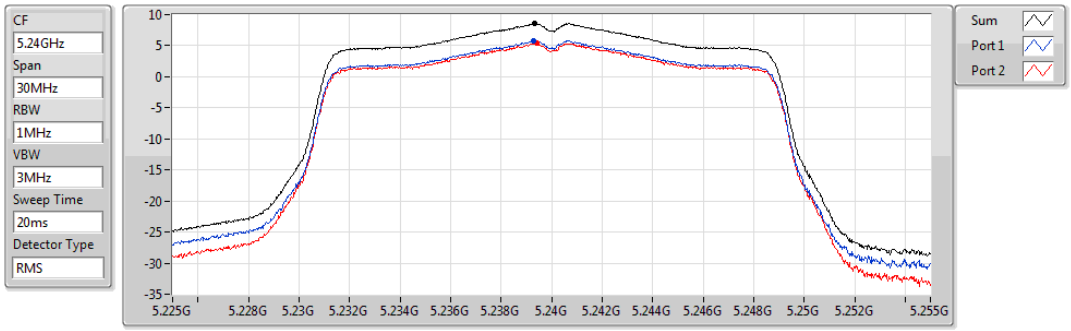
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.45	6.45	3.78	3.19

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

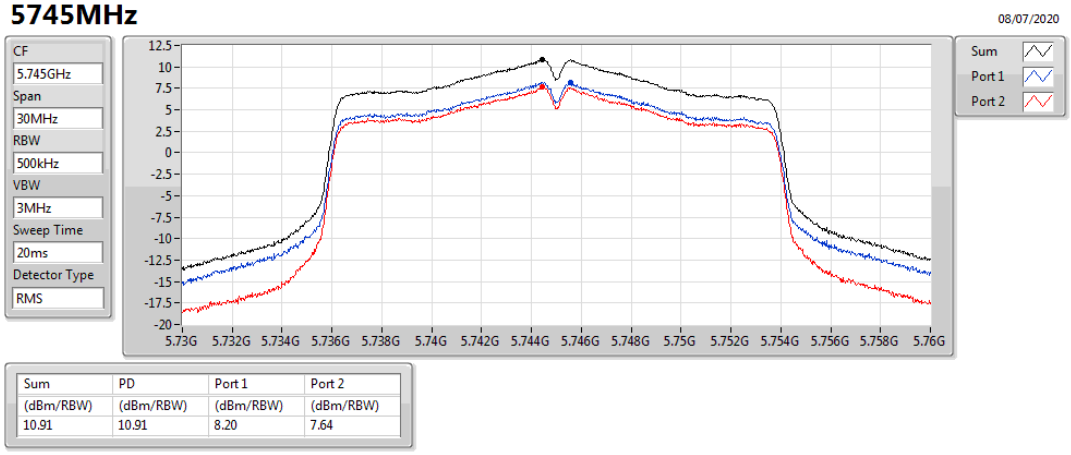
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.57	8.57	5.77	5.39

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

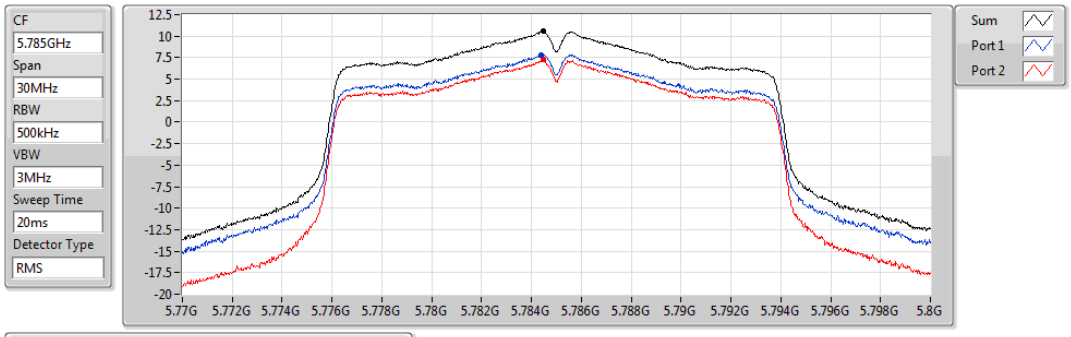
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.91	10.91	8.20	7.64

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

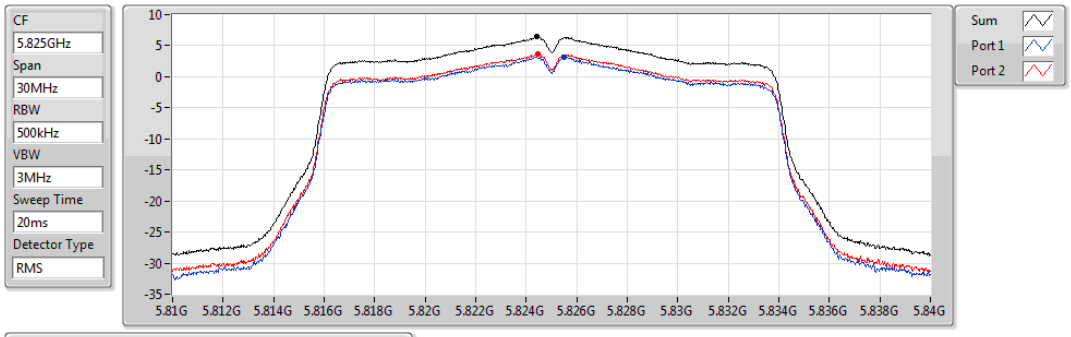
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.56	10.56	7.85	7.27

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

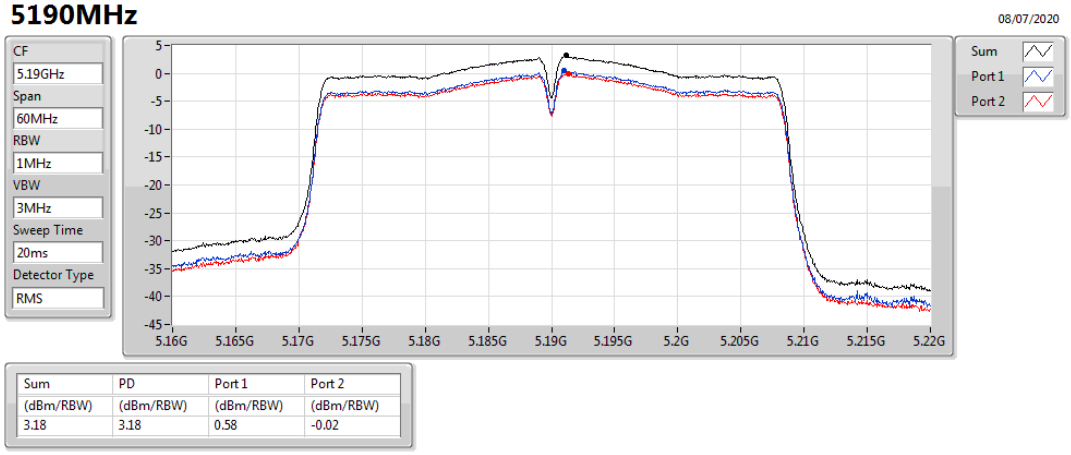
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.41	6.41	3.21	3.75

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

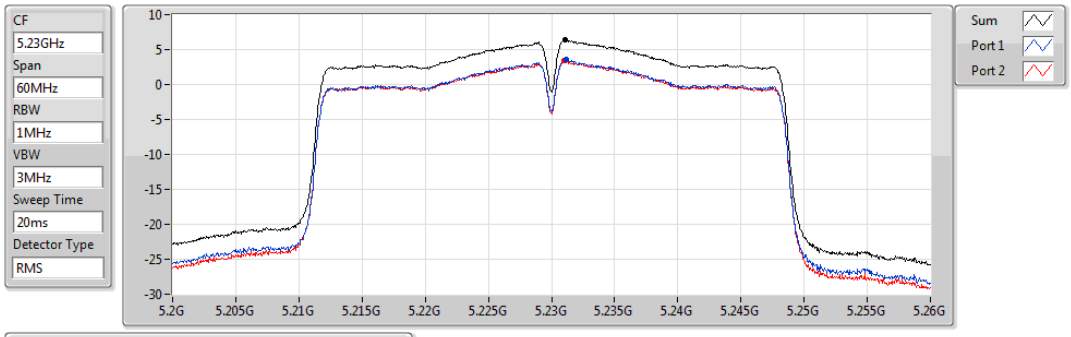
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18	0.58	-0.02

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

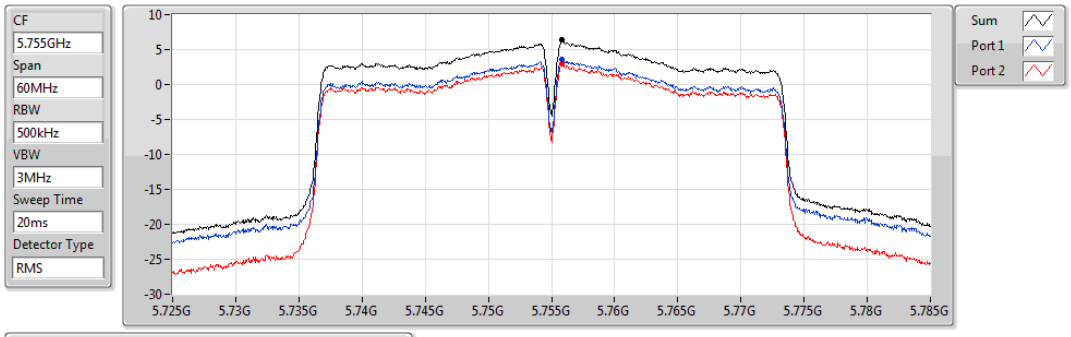
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.42	6.42	3.59	3.43

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

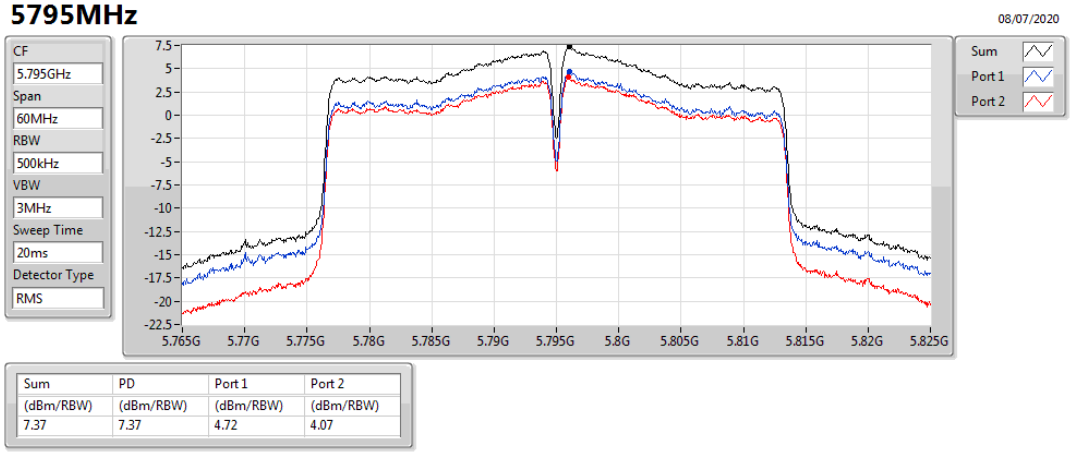
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.37	6.37	3.66	3.04

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

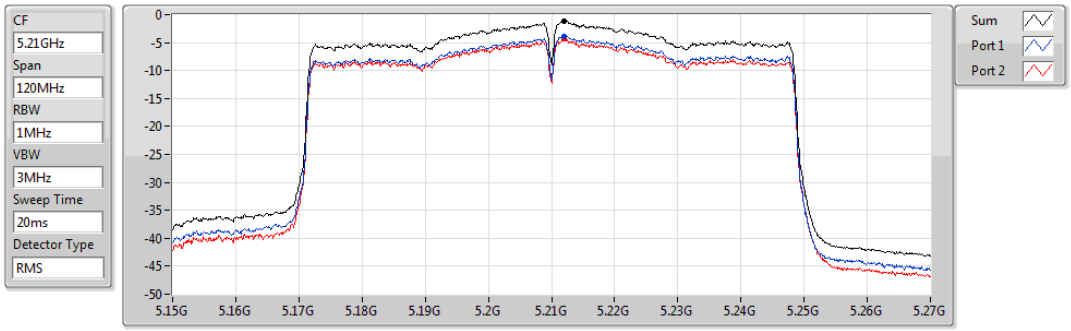
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.37	7.37	4.72	4.07

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

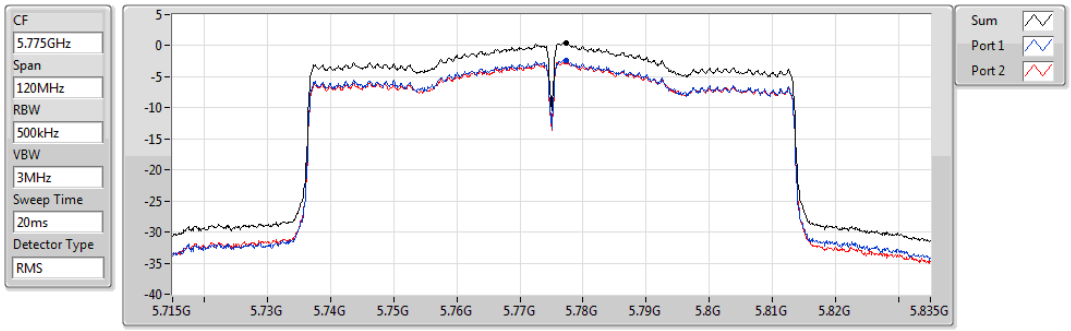
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.11	-1.11	-3.90	-4.35

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.51	0.51	-2.37	-2.63

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	30M	34.19	40.00	-5.81	3	Vertical	360	1.00	-

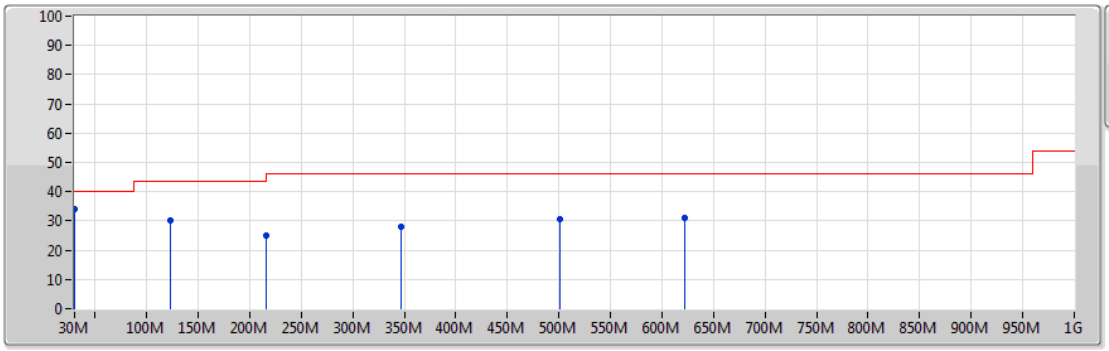
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	34.19	40.00	-5.81	3	Vertical	360	1.00	-
5775MHz	Pass	PK	123.12M	30.27	43.50	-13.23	3	Vertical	360	1.00	-
5775MHz	Pass	PK	216.24M	24.83	46.00	-21.17	3	Vertical	360	1.00	-
5775MHz	Pass	PK	346.22M	28.01	46.00	-17.99	3	Vertical	360	1.00	-
5775MHz	Pass	PK	501.42M	30.41	46.00	-15.59	3	Vertical	360	1.00	-
5775MHz	Pass	PK	621.7M	31.16	46.00	-14.84	3	Vertical	360	1.00	-
5775MHz	Pass	PK	30M	29.31	40.00	-10.69	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	127M	28.32	43.50	-15.18	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	175.5M	32.29	43.50	-11.21	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	317.12M	36.93	46.00	-9.07	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	452.92M	33.01	46.00	-12.99	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	635.28M	32.91	46.00	-13.09	3	Horizontal	0	1.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

08/07/2020

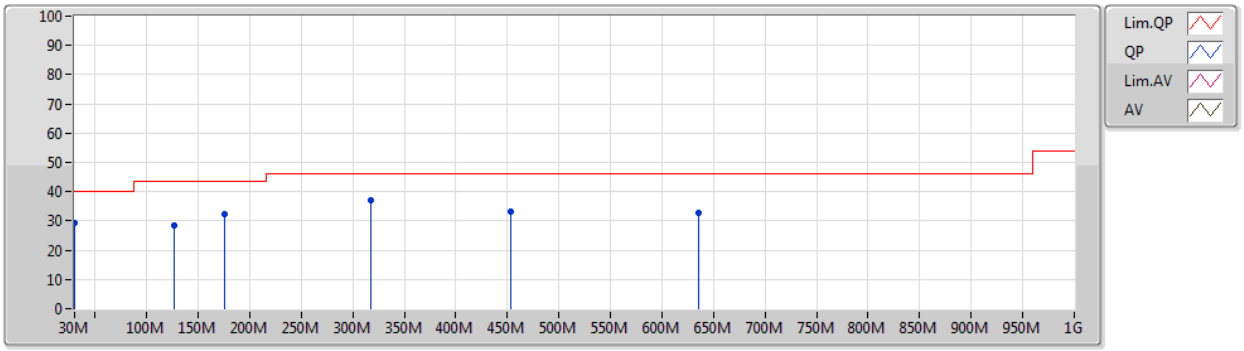


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	34.19	40.00	-5.81	-2.92	3	Vertical	360	1.00	-	37.11	23.48	0.81	27.21
PK	123.12M	30.27	43.50	-13.23	-8.89	3	Vertical	360	1.00	-	39.16	17.16	1.65	27.70
PK	216.24M	24.83	46.00	-21.17	-10.82	3	Vertical	360	1.00	-	35.65	14.17	2.22	27.21
PK	346.22M	28.01	46.00	-17.99	-5.09	3	Vertical	360	1.00	-	33.10	19.36	2.85	27.30
PK	501.42M	30.41	46.00	-15.59	-2.06	3	Vertical	360	1.00	-	32.47	22.70	3.52	28.28
PK	621.7M	31.16	46.00	-14.84	-0.19	3	Vertical	360	1.00	-	31.35	24.17	3.94	28.30

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

08/07/2020



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	30M	29.31	40.00	-10.69	-2.92	3	Horizontal	0	1.00	-	32.23	23.48	0.81	27.21
PK	127M	28.32	43.50	-15.18	-8.91	3	Horizontal	0	1.00	-	37.23	17.10	1.67	27.68
PK	175.5M	32.29	43.50	-11.21	-10.96	3	Horizontal	0	1.00	-	43.25	14.52	1.98	27.46
PK	317.12M	36.93	46.00	-9.07	-5.68	3	Horizontal	0	1.00	-	42.61	18.73	2.73	27.14
PK	452.92M	33.01	46.00	-12.99	-2.85	3	Horizontal	0	1.00	-	35.86	21.94	3.29	28.08
PK	635.28M	32.91	46.00	-13.09	-0.09	3	Horizontal	0	1.00	-	33.00	24.23	3.97	28.29

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	PK	10.39886G	66.91	68.20	-1.29	3	Vertical	186	1.49	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	10.39732G	67.00	68.20	-1.20	3	Vertical	199	1.57	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.1488G	52.43	54.00	-1.57	3	Vertical	95	3.00	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.149G	52.71	54.00	-1.29	3	Vertical	89	2.83	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.631G	60.66	68.20	-7.54	3	Vertical	85	2.21	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	5.9738G	60.46	68.20	-7.74	3	Vertical	84	3.00	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.6482G	66.96	68.20	-1.24	3	Vertical	79	2.77	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.6514G	67.74	69.24	-1.50	3	Vertical	84	2.50	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1498G	47.55	54.00	-6.45	3	Vertical	64	1.04	-
5180MHz	Pass	AV	5.1784G	98.00	Inf	-Inf	3	Vertical	64	1.04	-
5180MHz	Pass	PK	5.149G	68.28	74.00	-5.72	3	Vertical	64	1.04	-
5180MHz	Pass	PK	5.1782G	108.75	Inf	-Inf	3	Vertical	64	1.04	-
5180MHz	Pass	AV	5.1486G	45.79	54.00	-8.21	3	Horizontal	152	1.86	-
5180MHz	Pass	AV	5.1814G	93.14	Inf	-Inf	3	Horizontal	152	1.86	-
5180MHz	Pass	PK	5.149G	61.78	74.00	-12.22	3	Horizontal	152	1.86	-
5180MHz	Pass	PK	5.1812G	102.93	Inf	-Inf	3	Horizontal	152	1.86	-
5180MHz	Pass	PK	10.35868G	66.75	68.20	-1.45	3	Vertical	199	1.70	-
5180MHz	Pass	PK	10.36054G	61.31	68.20	-6.89	3	Horizontal	34	1.83	-
5200MHz	Pass	AV	5.1492G	49.63	54.00	-4.37	3	Vertical	285	3.00	-
5200MHz	Pass	AV	5.1992G	101.04	Inf	-Inf	3	Vertical	285	3.00	-
5200MHz	Pass	PK	5.1496G	68.08	74.00	-5.92	3	Vertical	285	3.00	-
5200MHz	Pass	PK	5.1996G	110.76	Inf	-Inf	3	Vertical	285	3.00	-
5200MHz	Pass	AV	5.1496G	46.32	54.00	-7.68	3	Horizontal	151	1.54	-
5200MHz	Pass	AV	5.2016G	93.57	Inf	-Inf	3	Horizontal	151	1.54	-
5200MHz	Pass	PK	5.15G	59.97	74.00	-14.03	3	Horizontal	151	1.54	-
5200MHz	Pass	PK	5.202G	103.42	Inf	-Inf	3	Horizontal	151	1.54	-
5200MHz	Pass	PK	10.39886G	66.91	68.20	-1.29	3	Vertical	186	1.49	-
5200MHz	Pass	PK	10.40258G	62.23	68.20	-5.97	3	Horizontal	35	1.83	-
5240MHz	Pass	AV	5.15G	48.47	54.00	-5.53	3	Vertical	96	2.09	-
5240MHz	Pass	AV	5.2388G	106.11	Inf	-Inf	3	Vertical	96	2.09	-
5240MHz	Pass	AV	5.3894G	46.58	54.00	-7.42	3	Vertical	96	2.09	-
5240MHz	Pass	PK	5.15G	61.42	74.00	-12.58	3	Vertical	96	2.09	-
5240MHz	Pass	PK	5.2388G	115.98	Inf	-Inf	3	Vertical	96	2.09	-
5240MHz	Pass	PK	5.3546G	60.98	74.00	-13.02	3	Vertical	96	2.09	-
5240MHz	Pass	AV	5.15G	46.41	54.00	-7.59	3	Horizontal	151	1.71	-
5240MHz	Pass	AV	5.2412G	98.43	Inf	-Inf	3	Horizontal	151	1.71	-
5240MHz	Pass	AV	5.35G	44.98	54.00	-9.02	3	Horizontal	151	1.71	-
5240MHz	Pass	PK	5.1488G	59.22	74.00	-14.78	3	Horizontal	151	1.71	-
5240MHz	Pass	PK	5.2418G	108.36	Inf	-Inf	3	Horizontal	151	1.71	-
5240MHz	Pass	PK	5.3642G	57.26	74.00	-16.74	3	Horizontal	151	1.71	-
5240MHz	Pass	PK	10.47628G	64.81	68.20	-3.39	3	Vertical	199	1.64	-
5240MHz	Pass	PK	10.4758G	60.28	68.20	-7.92	3	Horizontal	33	1.13	-
5745MHz	Pass	AV	5.4462G	44.68	54.00	-9.32	3	Vertical	85	2.21	-
5745MHz	Pass	AV	5.7438G	106.41	Inf	-Inf	3	Vertical	85	2.21	-
5745MHz	Pass	PK	5.631G	60.66	68.20	-7.54	3	Vertical	85	2.21	-
5745MHz	Pass	PK	5.7438G	116.48	Inf	-Inf	3	Vertical	85	2.21	-
5745MHz	Pass	PK	5.991G	58.61	68.20	-9.59	3	Vertical	85	2.21	-
5745MHz	Pass	AV	5.4582G	44.57	54.00	-9.43	3	Horizontal	329	1.00	-
5745MHz	Pass	AV	5.745G	97.08	Inf	-Inf	3	Horizontal	329	1.00	-
5745MHz	Pass	PK	5.6118G	57.49	68.20	-10.71	3	Horizontal	329	1.00	-
5745MHz	Pass	PK	5.7438G	106.39	Inf	-Inf	3	Horizontal	329	1.00	-
5745MHz	Pass	PK	5.9394G	58.56	68.20	-9.64	3	Horizontal	329	1.00	-
5745MHz	Pass	AV	11.4894G	43.84	54.00	-10.16	3	Vertical	157	1.49	-
5745MHz	Pass	PK	11.48706G	57.25	74.00	-16.75	3	Vertical	157	1.49	-
5745MHz	Pass	AV	11.49882G	43.21	54.00	-10.79	3	Horizontal	333	1.47	-

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	11.47902G	56.96	74.00	-17.04	3	Horizontal	333	1.47	-
5785MHz	Pass	AV	5.785G	106.39	Inf	-Inf	3	Vertical	281	3.00	-
5785MHz	Pass	PK	5.6302G	59.18	68.20	-9.02	3	Vertical	281	3.00	-
5785MHz	Pass	PK	5.785G	116.04	Inf	-Inf	3	Vertical	281	3.00	-
5785MHz	Pass	PK	5.9338G	60.25	68.20	-7.95	3	Vertical	281	3.00	-
5785MHz	Pass	AV	5.7862G	96.73	Inf	-Inf	3	Horizontal	136	1.00	-
5785MHz	Pass	PK	5.5234G	58.69	68.20	-9.51	3	Horizontal	136	1.00	-
5785MHz	Pass	PK	5.7862G	106.42	Inf	-Inf	3	Horizontal	136	1.00	-
5785MHz	Pass	PK	6.007G	58.70	68.20	-9.50	3	Horizontal	136	1.00	-
5785MHz	Pass	AV	11.57024G	43.64	54.00	-10.36	3	Vertical	162	1.74	-
5785MHz	Pass	PK	11.57108G	57.50	74.00	-16.50	3	Vertical	162	1.74	-
5785MHz	Pass	AV	11.57068G	42.70	54.00	-11.30	3	Horizontal	52	1.50	-
5785MHz	Pass	PK	11.57006G	56.77	74.00	-17.23	3	Horizontal	52	1.50	-
5825MHz	Pass	AV	5.8238G	106.49	Inf	-Inf	3	Vertical	285	2.27	-
5825MHz	Pass	PK	5.567G	58.17	68.20	-10.03	3	Vertical	285	2.27	-
5825MHz	Pass	PK	5.8238G	116.24	Inf	-Inf	3	Vertical	285	2.27	-
5825MHz	Pass	PK	6.0638G	59.49	68.20	-8.71	3	Vertical	285	2.27	-
5825MHz	Pass	AV	5.8238G	98.67	Inf	-Inf	3	Horizontal	325	3.00	-
5825MHz	Pass	PK	5.6426G	58.93	68.20	-9.27	3	Horizontal	325	3.00	-
5825MHz	Pass	PK	5.8238G	108.97	Inf	-Inf	3	Horizontal	325	3.00	-
5825MHz	Pass	PK	6.095G	58.33	68.20	-9.87	3	Horizontal	325	3.00	-
5825MHz	Pass	AV	11.64993G	42.99	54.00	-11.01	3	Vertical	148	1.49	-
5825MHz	Pass	PK	11.64962G	57.00	74.00	-17.00	3	Vertical	148	1.49	-
5825MHz	Pass	AV	11.64919G	42.39	54.00	-11.61	3	Horizontal	89	1.47	-
5825MHz	Pass	PK	11.64794G	56.19	74.00	-17.81	3	Horizontal	89	1.47	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1494G	48.02	54.00	-5.98	3	Vertical	95	2.87	-
5180MHz	Pass	AV	5.1806G	98.86	Inf	-Inf	3	Vertical	95	2.87	-
5180MHz	Pass	PK	5.1486G	68.93	74.00	-5.07	3	Vertical	95	2.87	-
5180MHz	Pass	PK	5.1784G	110.10	Inf	-Inf	3	Vertical	95	2.87	-
5180MHz	Pass	AV	5.1494G	45.95	54.00	-8.05	3	Horizontal	153	1.98	-
5180MHz	Pass	AV	5.1806G	91.94	Inf	-Inf	3	Horizontal	153	1.98	-
5180MHz	Pass	PK	5.1492G	61.94	74.00	-12.06	3	Horizontal	153	1.98	-
5180MHz	Pass	PK	5.1796G	102.78	Inf	-Inf	3	Horizontal	153	1.98	-
5180MHz	Pass	PK	10.35984G	66.80	68.20	-1.40	3	Vertical	200	1.65	-
5180MHz	Pass	PK	10.36212G	59.83	68.20	-8.37	3	Horizontal	40	1.82	-
5200MHz	Pass	AV	5.15G	46.86	54.00	-7.14	3	Vertical	285	2.95	-
5200MHz	Pass	AV	5.2008G	97.96	Inf	-Inf	3	Vertical	285	2.95	-
5200MHz	Pass	PK	5.1496G	62.08	74.00	-11.92	3	Vertical	285	2.95	-
5200MHz	Pass	PK	5.2012G	109.44	Inf	-Inf	3	Vertical	285	2.95	-
5200MHz	Pass	AV	5.15G	45.88	54.00	-8.12	3	Horizontal	152	1.75	-
5200MHz	Pass	AV	5.2008G	92.84	Inf	-Inf	3	Horizontal	152	1.75	-
5200MHz	Pass	PK	5.148G	59.16	74.00	-14.84	3	Horizontal	152	1.75	-
5200MHz	Pass	PK	5.1992G	103.44	Inf	-Inf	3	Horizontal	152	1.75	-
5200MHz	Pass	PK	10.39732G	67.00	68.20	-1.20	3	Vertical	199	1.57	-
5200MHz	Pass	PK	10.39676G	60.55	68.20	-7.65	3	Horizontal	50	1.96	-
5240MHz	Pass	AV	5.1494G	45.79	54.00	-8.21	3	Vertical	97	3.00	-
5240MHz	Pass	AV	5.2394G	99.94	Inf	-Inf	3	Vertical	97	3.00	-
5240MHz	Pass	AV	5.3894G	46.14	54.00	-7.86	3	Vertical	97	3.00	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5240MHz	Pass	PK	5.1152G	58.37	74.00	-15.63	3	Vertical	97	3.00	-
5240MHz	Pass	PK	5.2394G	111.72	Inf	-Inf	3	Vertical	97	3.00	-
5240MHz	Pass	PK	5.3606G	58.04	74.00	-15.96	3	Vertical	97	3.00	-
5240MHz	Pass	AV	5.1446G	45.51	54.00	-8.49	3	Horizontal	153	1.96	-
5240MHz	Pass	AV	5.2406G	94.94	Inf	-Inf	3	Horizontal	153	1.96	-
5240MHz	Pass	AV	5.3504G	44.83	54.00	-9.17	3	Horizontal	153	1.96	-
5240MHz	Pass	PK	5.1398G	58.29	74.00	-15.71	3	Horizontal	153	1.96	-
5240MHz	Pass	PK	5.2418G	105.95	Inf	-Inf	3	Horizontal	153	1.96	-
5240MHz	Pass	PK	5.3594G	57.64	74.00	-16.36	3	Horizontal	153	1.96	-
5240MHz	Pass	PK	10.47868G	66.81	68.20	-1.39	3	Vertical	200	1.65	-
5240MHz	Pass	PK	10.47848G	63.36	68.20	-4.84	3	Horizontal	69	1.88	-
5745MHz	Pass	AV	5.7438G	104.37	Inf	-Inf	3	Vertical	285	2.52	-
5745MHz	Pass	PK	5.6466G	60.11	68.20	-8.09	3	Vertical	285	2.52	-
5745MHz	Pass	PK	5.7438G	115.83	Inf	-Inf	3	Vertical	285	2.52	-
5745MHz	Pass	PK	5.9934G	58.94	68.20	-9.26	3	Vertical	285	2.52	-
5745MHz	Pass	AV	5.7474G	94.44	Inf	-Inf	3	Horizontal	136	0.99	-
5745MHz	Pass	PK	5.6082G	58.98	68.20	-9.22	3	Horizontal	136	0.99	-
5745MHz	Pass	PK	5.7438G	106.36	Inf	-Inf	3	Horizontal	136	0.99	-
5745MHz	Pass	PK	5.949G	58.99	68.20	-9.21	3	Horizontal	136	0.99	-
5745MHz	Pass	AV	11.48996G	44.26	54.00	-9.74	3	Vertical	158	1.63	-
5745MHz	Pass	PK	11.49016G	58.53	74.00	-15.47	3	Vertical	158	1.63	-
5745MHz	Pass	AV	11.4898G	43.56	54.00	-10.44	3	Horizontal	227	1.49	-
5745MHz	Pass	PK	11.483G	56.99	74.00	-17.01	3	Horizontal	227	1.49	-
5785MHz	Pass	AV	5.785G	106.11	Inf	-Inf	3	Vertical	107	3.00	-
5785MHz	Pass	PK	5.6362G	59.57	68.20	-8.63	3	Vertical	107	3.00	-
5785MHz	Pass	PK	5.785G	117.45	Inf	-Inf	3	Vertical	107	3.00	-
5785MHz	Pass	PK	5.9326G	60.25	68.20	-7.95	3	Vertical	107	3.00	-
5785MHz	Pass	AV	5.785G	97.24	Inf	-Inf	3	Horizontal	126	2.24	-
5785MHz	Pass	PK	5.5174G	58.63	68.20	-9.57	3	Horizontal	126	2.24	-
5785MHz	Pass	PK	5.7838G	108.96	Inf	-Inf	3	Horizontal	126	2.24	-
5785MHz	Pass	PK	5.9662G	59.27	68.20	-8.93	3	Horizontal	126	2.24	-
5785MHz	Pass	AV	11.56844G	43.79	54.00	-10.21	3	Vertical	154	1.00	-
5785MHz	Pass	PK	11.57632G	57.61	74.00	-16.39	3	Vertical	154	1.00	-
5785MHz	Pass	AV	11.56G	43.41	54.00	-10.59	3	Horizontal	212	1.48	-
5785MHz	Pass	PK	11.5628G	56.96	74.00	-17.04	3	Horizontal	212	1.48	-
5825MHz	Pass	AV	5.8226G	105.25	Inf	-Inf	3	Vertical	84	3.00	-
5825MHz	Pass	PK	5.5874G	58.41	68.20	-9.79	3	Vertical	84	3.00	-
5825MHz	Pass	PK	5.8238G	116.65	Inf	-Inf	3	Vertical	84	3.00	-
5825MHz	Pass	PK	5.9738G	60.46	68.20	-7.74	3	Vertical	84	3.00	-
5825MHz	Pass	AV	5.8238G	97.40	Inf	-Inf	3	Horizontal	326	3.00	-
5825MHz	Pass	PK	5.5538G	58.02	68.20	-10.18	3	Horizontal	326	3.00	-
5825MHz	Pass	PK	5.8262G	108.18	Inf	-Inf	3	Horizontal	326	3.00	-
5825MHz	Pass	PK	6.119G	59.57	68.20	-8.63	3	Horizontal	326	3.00	-
5825MHz	Pass	AV	11.64476G	43.13	54.00	-10.87	3	Vertical	360	2.83	-
5825MHz	Pass	PK	11.64944G	56.79	74.00	-17.21	3	Vertical	360	2.83	-
5825MHz	Pass	AV	11.6472G	42.98	54.00	-11.02	3	Horizontal	76	1.49	-
5825MHz	Pass	PK	11.64504G	59.16	74.00	-14.84	3	Horizontal	76	1.49	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	52.35	54.00	-1.65	3	Vertical	96	2.85	-

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

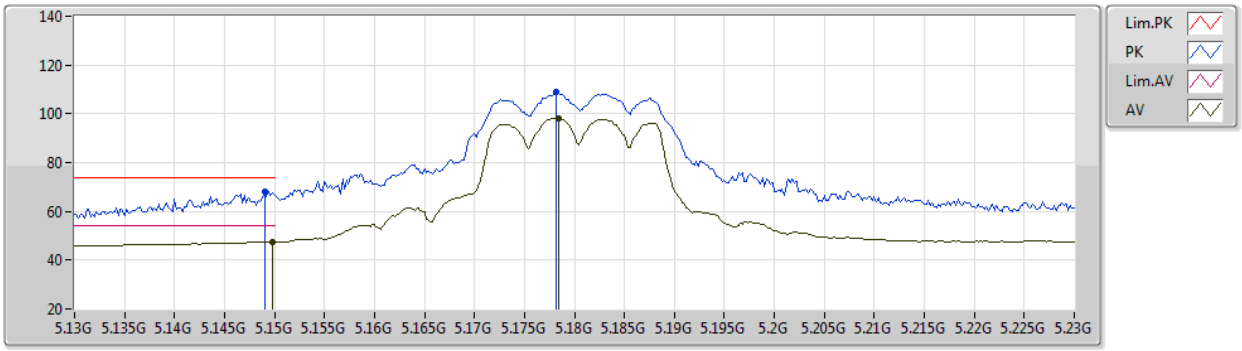
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	AV	5.1912G	96.76	Inf	-Inf	3	Vertical	96	2.85	-
5190MHz	Pass	PK	5.1464G	66.98	74.00	-7.02	3	Vertical	96	2.85	-
5190MHz	Pass	PK	5.1928G	107.19	Inf	-Inf	3	Vertical	96	2.85	-
5190MHz	Pass	AV	5.15G	50.28	54.00	-3.72	3	Horizontal	156	2.14	-
5190MHz	Pass	AV	5.1912G	90.99	Inf	-Inf	3	Horizontal	156	2.14	-
5190MHz	Pass	PK	5.15G	63.24	74.00	-10.76	3	Horizontal	156	2.14	-
5190MHz	Pass	PK	5.1916G	100.88	Inf	-Inf	3	Horizontal	156	2.14	-
5190MHz	Pass	PK	10.38048G	63.25	68.20	-4.95	3	Vertical	189	1.79	-
5190MHz	Pass	PK	10.3732G	58.89	68.20	-9.31	3	Horizontal	36	1.92	-
5230MHz	Pass	AV	5.1488G	52.43	54.00	-1.57	3	Vertical	95	3.00	-
5230MHz	Pass	AV	5.2336G	100.34	Inf	-Inf	3	Vertical	95	3.00	-
5230MHz	Pass	PK	5.1476G	66.43	74.00	-7.57	3	Vertical	95	3.00	-
5230MHz	Pass	PK	5.2272G	111.32	Inf	-Inf	3	Vertical	95	3.00	-
5230MHz	Pass	AV	5.15G	51.04	54.00	-2.96	3	Horizontal	152	1.82	-
5230MHz	Pass	AV	5.2316G	93.96	Inf	-Inf	3	Horizontal	152	1.82	-
5230MHz	Pass	PK	5.15G	65.06	74.00	-8.94	3	Horizontal	152	1.82	-
5230MHz	Pass	PK	5.2272G	103.79	Inf	-Inf	3	Horizontal	152	1.82	-
5230MHz	Pass	PK	10.45672G	64.22	68.20	-3.98	3	Vertical	199	1.54	-
5230MHz	Pass	PK	10.46128G	60.34	68.20	-7.86	3	Horizontal	36	1.88	-
5755MHz	Pass	AV	5.7562G	101.05	Inf	-Inf	3	Vertical	79	2.77	-
5755MHz	Pass	PK	5.6482G	66.96	68.20	-1.24	3	Vertical	79	2.77	-
5755MHz	Pass	PK	5.761G	111.40	Inf	-Inf	3	Vertical	79	2.77	-
5755MHz	Pass	PK	5.9266G	59.26	68.20	-8.94	3	Vertical	79	2.77	-
5755MHz	Pass	AV	5.7562G	93.45	Inf	-Inf	3	Horizontal	157	1.94	-
5755MHz	Pass	PK	5.6446G	60.79	68.20	-7.41	3	Horizontal	157	1.94	-
5755MHz	Pass	PK	5.7538G	103.03	Inf	-Inf	3	Horizontal	157	1.94	-
5755MHz	Pass	PK	6.0166G	58.65	68.20	-9.55	3	Horizontal	157	1.94	-
5755MHz	Pass	AV	11.5212G	44.74	54.00	-9.26	3	Vertical	0	1.18	-
5755MHz	Pass	PK	11.50352G	57.91	74.00	-16.09	3	Vertical	0	1.18	-
5755MHz	Pass	AV	11.502G	44.74	54.00	-9.26	3	Horizontal	280	1.50	-
5755MHz	Pass	PK	11.5184G	57.12	74.00	-16.88	3	Horizontal	280	1.50	-
5795MHz	Pass	AV	5.7986G	102.60	Inf	-Inf	3	Vertical	271	2.57	-
5795MHz	Pass	PK	5.651G	65.23	68.94	-3.71	3	Vertical	271	2.57	-
5795MHz	Pass	PK	5.7998G	113.03	Inf	-Inf	3	Vertical	271	2.57	-
5795MHz	Pass	PK	5.9282G	61.27	68.20	-6.93	3	Vertical	271	2.57	-
5795MHz	Pass	AV	5.7962G	94.13	Inf	-Inf	3	Horizontal	137	2.15	-
5795MHz	Pass	PK	5.6342G	59.22	68.20	-8.98	3	Horizontal	137	2.15	-
5795MHz	Pass	PK	5.7938G	105.20	Inf	-Inf	3	Horizontal	137	2.15	-
5795MHz	Pass	PK	6.0674G	59.34	68.20	-8.86	3	Horizontal	137	2.15	-
5795MHz	Pass	AV	11.57632G	44.48	54.00	-9.52	3	Vertical	126	1.49	-
5795MHz	Pass	PK	11.59344G	57.02	74.00	-16.98	3	Vertical	126	1.49	-
5795MHz	Pass	AV	11.57336G	44.41	54.00	-9.59	3	Horizontal	9	1.48	-
5795MHz	Pass	PK	11.59944G	56.87	74.00	-17.13	3	Horizontal	9	1.48	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149G	52.71	54.00	-1.29	3	Vertical	89	2.83	-
5210MHz	Pass	AV	5.211G	93.74	Inf	-Inf	3	Vertical	89	2.83	-
5210MHz	Pass	AV	5.365G	49.10	54.00	-4.90	3	Vertical	89	2.83	-
5210MHz	Pass	PK	5.112G	66.02	74.00	-7.98	3	Vertical	89	2.83	-
5210MHz	Pass	PK	5.213G	103.21	Inf	-Inf	3	Vertical	89	2.83	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5210MHz	Pass	PK	5.355G	60.64	74.00	-13.36	3	Vertical	89	2.83	-
5210MHz	Pass	AV	5.149G	50.46	54.00	-3.54	3	Horizontal	150	1.62	-
5210MHz	Pass	AV	5.213G	86.20	Inf	-Inf	3	Horizontal	150	1.62	-
5210MHz	Pass	AV	5.356G	47.56	54.00	-6.44	3	Horizontal	150	1.62	-
5210MHz	Pass	PK	5.112G	60.81	74.00	-13.19	3	Horizontal	150	1.62	-
5210MHz	Pass	PK	5.203G	95.37	Inf	-Inf	3	Horizontal	150	1.62	-
5210MHz	Pass	PK	5.35G	58.19	74.00	-15.81	3	Horizontal	150	1.62	-
5210MHz	Pass	PK	10.41952G	59.49	68.20	-8.71	3	Vertical	197	1.47	-
5210MHz	Pass	PK	10.4242G	57.12	68.20	-11.08	3	Horizontal	42	1.74	-
5775MHz	Pass	AV	5.7762G	96.17	Inf	-Inf	3	Vertical	84	2.50	-
5775MHz	Pass	PK	5.6514G	67.74	69.24	-1.50	3	Vertical	84	2.50	-
5775MHz	Pass	PK	5.7822G	104.88	Inf	-Inf	3	Vertical	84	2.50	-
5775MHz	Pass	PK	5.9298G	61.71	68.20	-6.49	3	Vertical	84	2.50	-
5775MHz	Pass	AV	5.7762G	88.36	Inf	-Inf	3	Horizontal	123	2.17	-
5775MHz	Pass	PK	5.6466G	61.08	68.20	-7.12	3	Horizontal	123	2.17	-
5775MHz	Pass	PK	5.7762G	97.88	Inf	-Inf	3	Horizontal	123	2.17	-
5775MHz	Pass	PK	6.003G	58.41	68.20	-9.79	3	Horizontal	123	2.17	-
5775MHz	Pass	AV	11.54244G	45.81	54.00	-8.19	3	Vertical	221	1.48	-
5775MHz	Pass	PK	11.54652G	56.35	74.00	-17.65	3	Vertical	221	1.48	-
5775MHz	Pass	AV	11.54156G	45.67	54.00	-8.33	3	Horizontal	8	1.49	-
5775MHz	Pass	PK	11.54584G	56.57	74.00	-17.43	3	Horizontal	8	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/07/2020

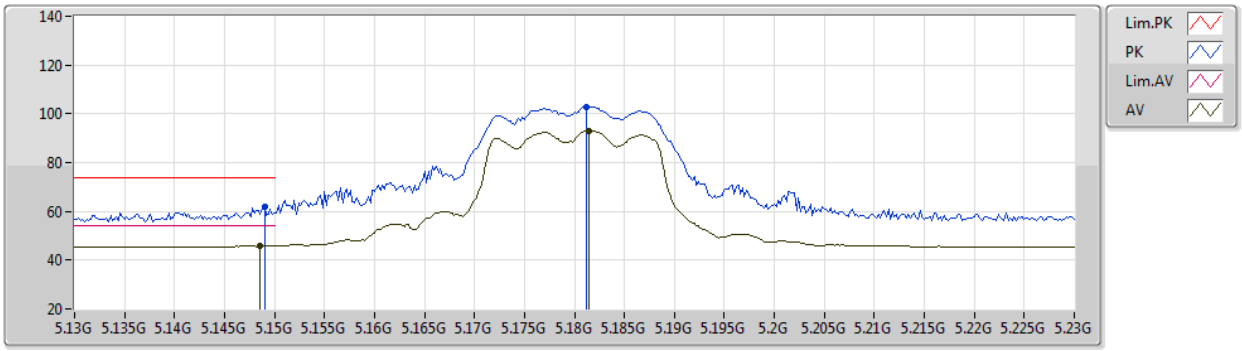


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1498G	47.55	54.00	-6.45	6.39	3	Vertical	64	1.04	-	41.16	31.70	8.52	33.83
AV	5.1784G	98.00	Inf	-Inf	6.30	3	Vertical	64	1.04	-	91.70	31.59	8.55	33.84
PK	5.149G	68.28	74.00	-5.72	6.39	3	Vertical	64	1.04	-	61.89	31.70	8.52	33.83
PK	5.1782G	108.75	Inf	-Inf	6.30	3	Vertical	64	1.04	-	102.45	31.59	8.55	33.84

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/07/2020

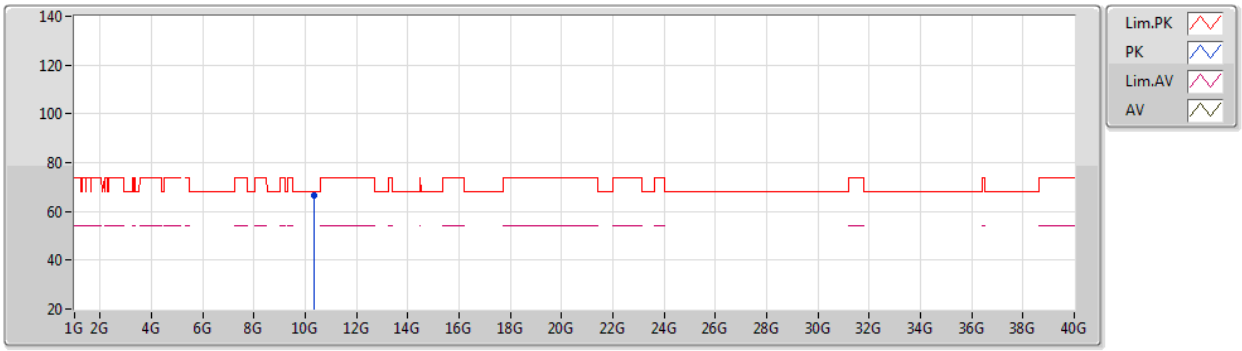


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1486G	45.79	54.00	-8.21	6.39	3	Horizontal	152	1.86	-	39.40	31.70	8.52	33.83
AV	5.1814G	93.14	Inf	-Inf	6.28	3	Horizontal	152	1.86	-	86.86	31.57	8.55	33.84
PK	5.149G	61.78	74.00	-12.22	6.39	3	Horizontal	152	1.86	-	55.39	31.70	8.52	33.83
PK	5.1812G	102.93	Inf	-Inf	6.29	3	Horizontal	152	1.86	-	96.64	31.58	8.55	33.84

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/07/2020

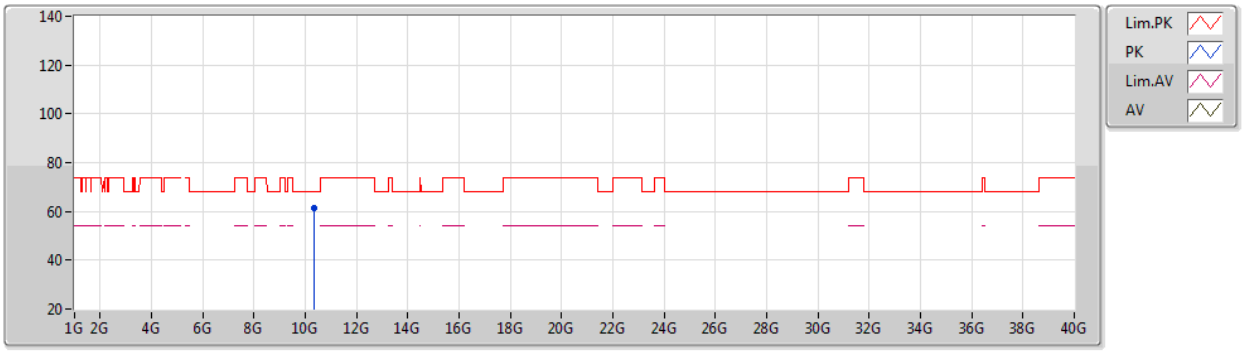


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.35868G	66.75	68.20	-1.45	17.26	3	Vertical	199	1.70	-	49.49	39.38	12.18	34.30

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/07/2020

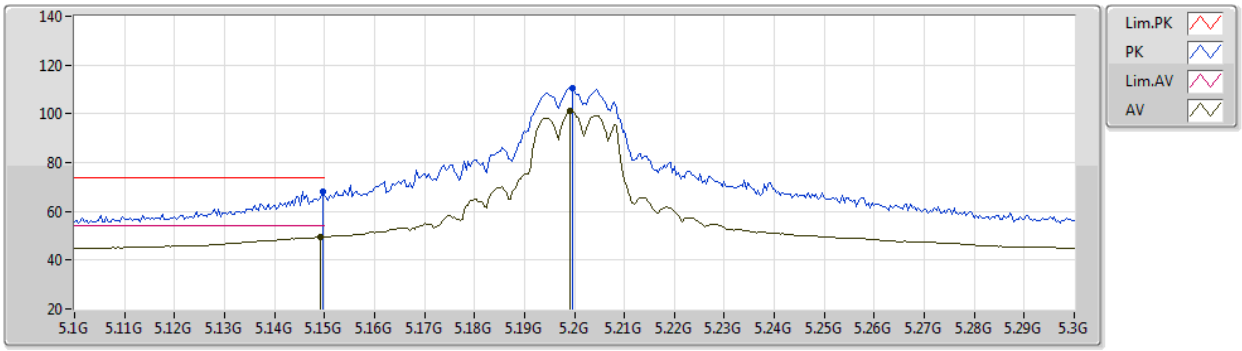


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.36054G	61.31	68.20	-6.89	17.26	3	Horizontal	34	1.83	-	44.05	39.38	12.18	34.30

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/07/2020

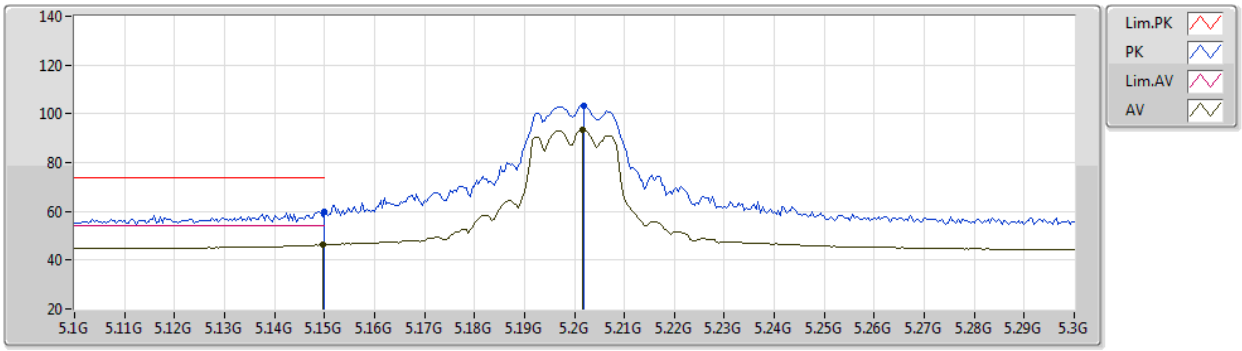


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1492G	49.63	54.00	-4.37	6.39	3	Vertical	285	3.00	-	43.24	31.70	8.52	33.83
AV	5.1992G	101.04	Inf	-Inf	6.22	3	Vertical	285	3.00	-	94.82	31.50	8.57	33.85
PK	5.1496G	68.08	74.00	-5.92	6.39	3	Vertical	285	3.00	-	61.69	31.70	8.52	33.83
PK	5.1996G	110.76	Inf	-Inf	6.22	3	Vertical	285	3.00	-	104.54	31.50	8.57	33.85

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/07/2020

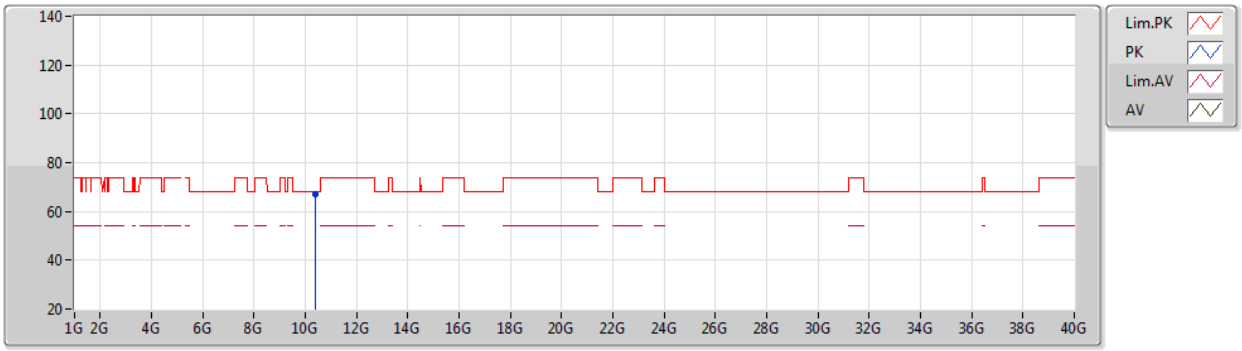


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1496G	46.32	54.00	-7.68	6.39	3	Horizontal	151	1.54	-	39.93	31.70	8.52	33.83
AV	5.2016G	93.57	Inf	-Inf	6.21	3	Horizontal	151	1.54	-	87.36	31.49	8.57	33.85
PK	5.15G	59.97	74.00	-14.03	6.39	3	Horizontal	151	1.54	-	53.58	31.70	8.52	33.83
PK	5.202G	103.42	Inf	-Inf	6.21	3	Horizontal	151	1.54	-	97.21	31.49	8.57	33.85

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/07/2020

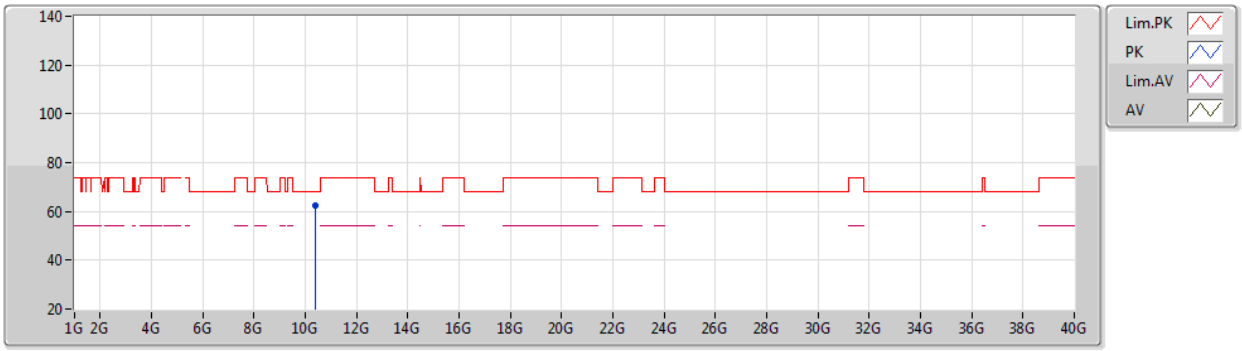


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.39886G	66.91	68.20	-1.29	17.43	3	Vertical	186	1.49	-	49.48	39.50	12.20	34.27

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/07/2020

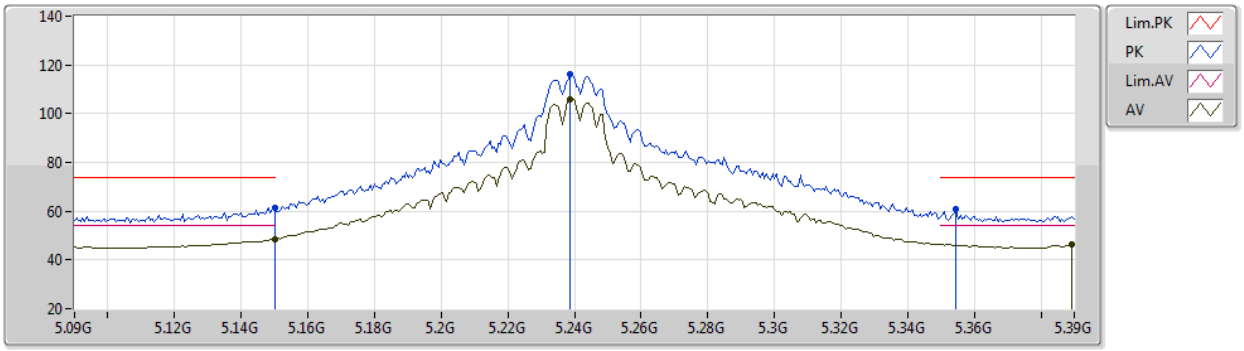


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.40258G	62.23	68.20	-5.97	17.44	3	Horizontal	35	1.83	-	44.79	39.51	12.20	34.27

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/07/2020

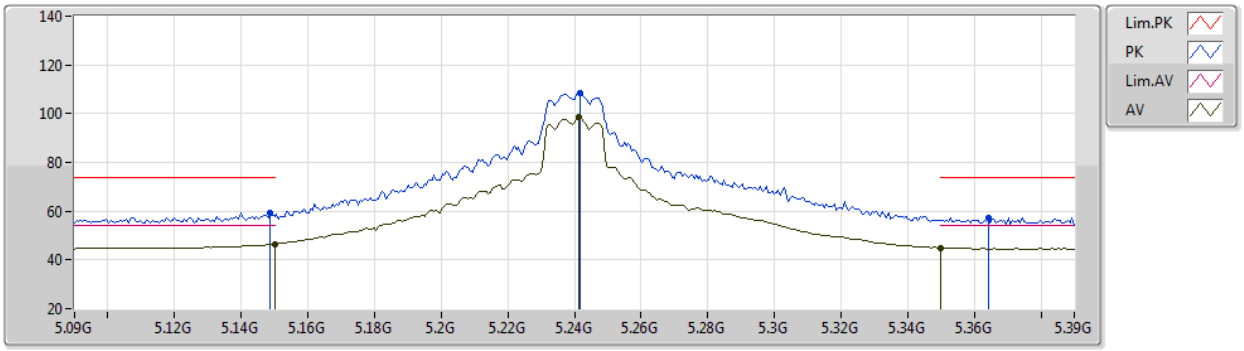


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	48.47	54.00	-5.53	6.39	3	Vertical	96	2.09	-	42.08	31.70	8.52	33.83
AV	5.2388G	106.11	Inf	-Inf	5.99	3	Vertical	96	2.09	-	100.12	31.27	8.58	33.86
AV	5.3894G	46.58	54.00	-7.42	5.95	3	Vertical	96	2.09	-	40.63	31.24	8.61	33.90
PK	5.15G	61.42	74.00	-12.58	6.39	3	Vertical	96	2.09	-	55.03	31.70	8.52	33.83
PK	5.2388G	115.98	Inf	-Inf	5.99	3	Vertical	96	2.09	-	109.99	31.27	8.58	33.86
PK	5.3546G	60.98	74.00	-13.02	5.74	3	Vertical	96	2.09	-	55.24	31.03	8.60	33.89

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/07/2020

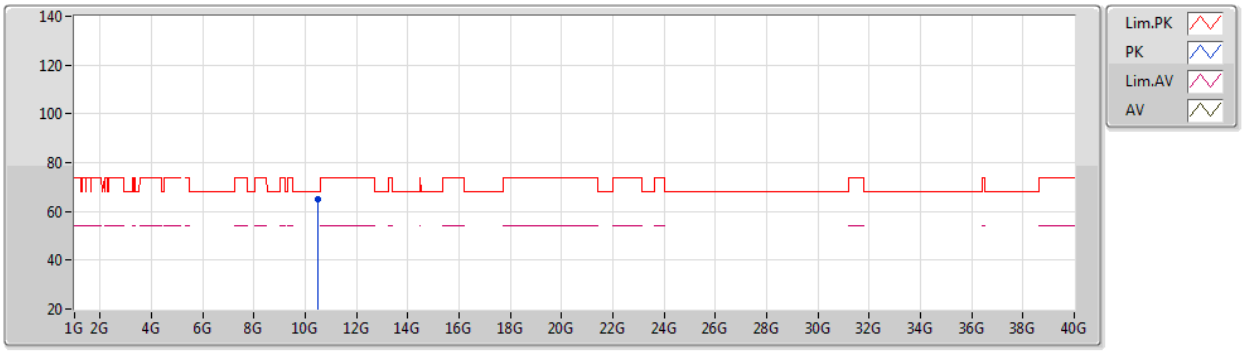


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	46.41	54.00	-7.59	6.39	3	Horizontal	151	1.71	-	40.02	31.70	8.52	33.83
AV	5.2412G	98.43	Inf	-Inf	5.97	3	Horizontal	151	1.71	-	92.46	31.25	8.58	33.86
AV	5.35G	44.98	54.00	-9.02	5.71	3	Horizontal	151	1.71	-	39.27	31.00	8.60	33.89
PK	5.1488G	59.22	74.00	-14.78	6.39	3	Horizontal	151	1.71	-	52.83	31.70	8.52	33.83
PK	5.2418G	108.36	Inf	-Inf	5.97	3	Horizontal	151	1.71	-	102.39	31.25	8.58	33.86
PK	5.3642G	57.26	74.00	-16.74	5.80	3	Horizontal	151	1.71	-	51.46	31.09	8.60	33.89

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/07/2020

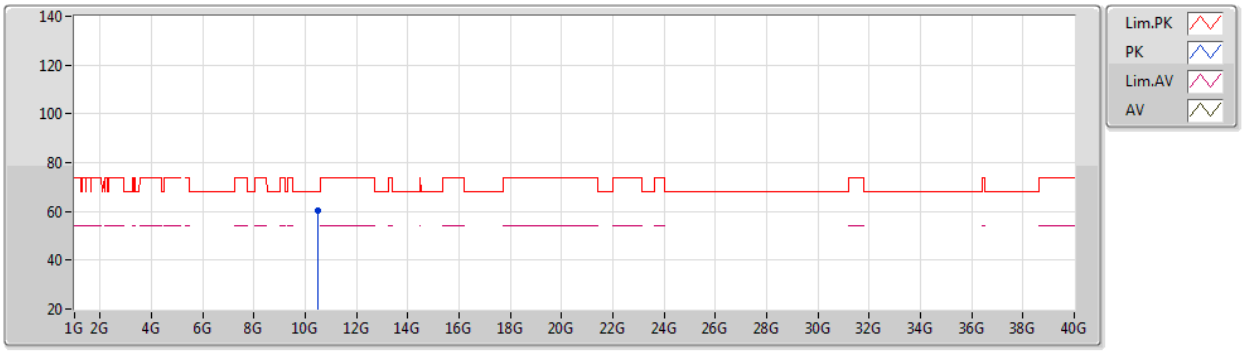


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.47628G	64.81	68.20	-3.39	17.67	3	Vertical	199	1.64	-	47.14	39.65	12.24	34.22

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/07/2020

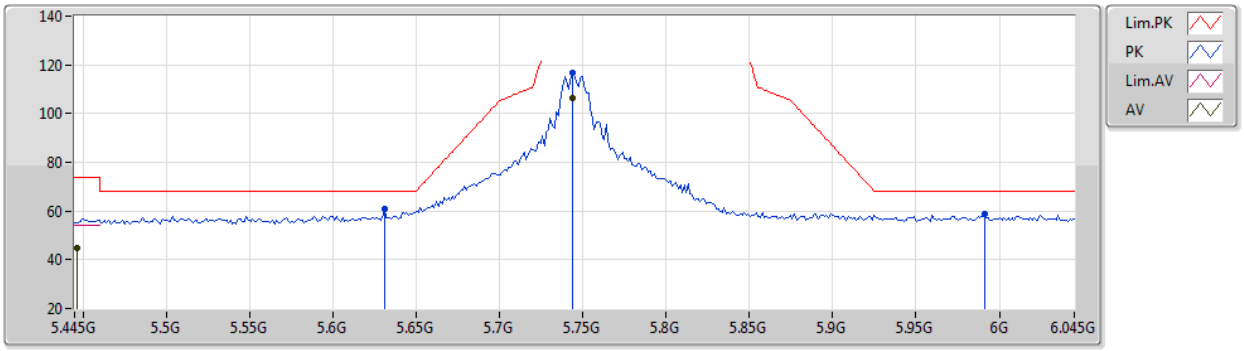


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.4758G	60.28	68.20	-7.92	17.67	3	Horizontal	33	1.13	-	42.61	39.65	12.24	34.22

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

07/07/2020

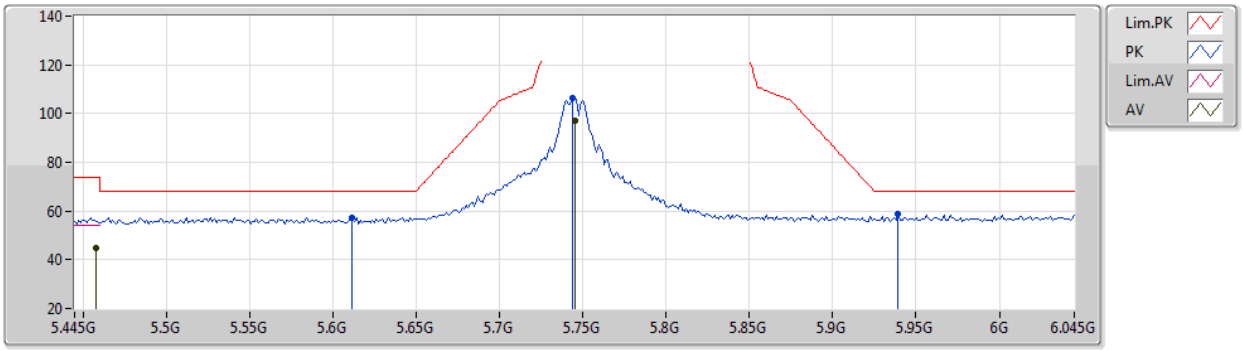


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.4462G	44.68	54.00	-9.32	6.35	3	Vertical	85	2.21	-	38.33	31.58	8.68	33.91
AV	5.7438G	106.41	Inf	-Inf	7.05	3	Vertical	85	2.21	-	99.36	31.98	9.03	33.96
PK	5.631G	60.66	68.20	-7.54	6.65	3	Vertical	85	2.21	-	54.01	31.66	8.93	33.94
PK	5.7438G	116.48	Inf	-Inf	7.05	3	Vertical	85	2.21	-	109.43	31.98	9.03	33.96
PK	5.991G	58.61	68.20	-9.59	7.55	3	Vertical	85	2.21	-	51.06	32.38	9.17	34.00

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

07/07/2020

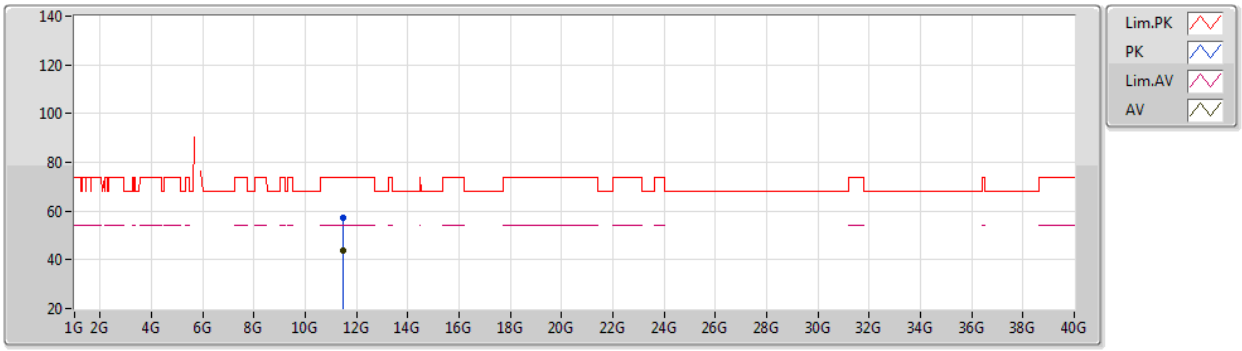


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.4582G	44.57	54.00	-9.43	6.40	3	Horizontal	329	1.00	-	38.17	31.62	8.69	33.91
AV	5.745G	97.08	Inf	-Inf	7.05	3	Horizontal	329	1.00	-	90.03	31.98	9.03	33.96
PK	5.6118G	57.49	68.20	-10.71	6.59	3	Horizontal	329	1.00	-	50.90	31.62	8.91	33.94
PK	5.7438G	106.39	Inf	-Inf	7.05	3	Horizontal	329	1.00	-	99.34	31.98	9.03	33.96
PK	5.9394G	58.56	68.20	-9.64	7.45	3	Horizontal	329	1.00	-	51.11	32.30	9.14	33.99

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

07/07/2020

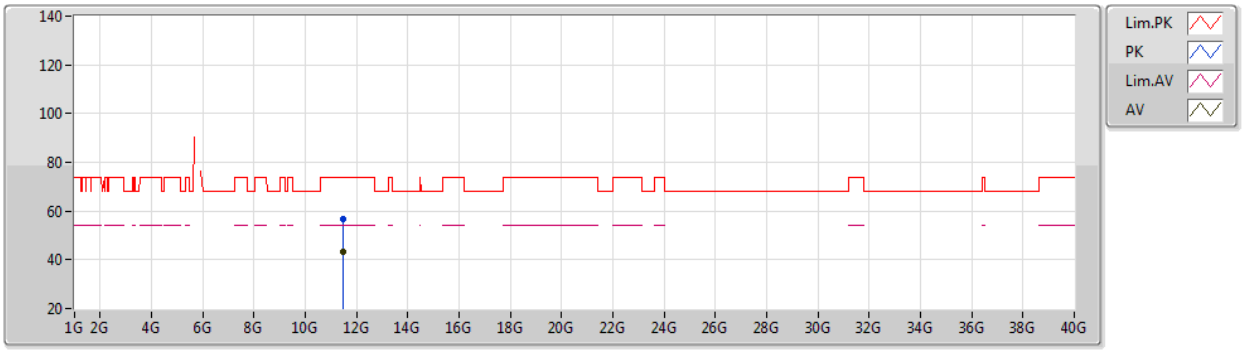


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4894G	43.84	54.00	-10.16	18.80	3	Vertical	157	1.49	-	25.04	39.98	12.75	33.93
PK	11.48706G	57.25	74.00	-16.75	18.79	3	Vertical	157	1.49	-	38.46	39.97	12.75	33.93

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

07/07/2020

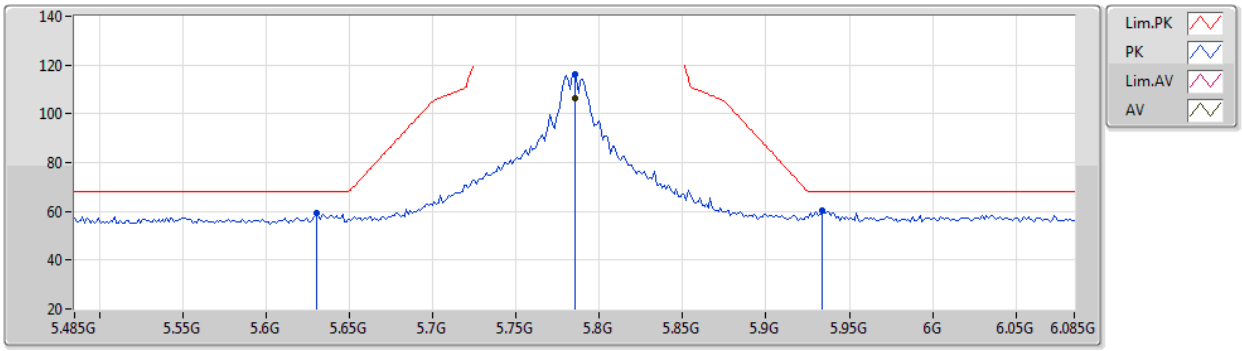


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49882G	43.21	54.00	-10.79	18.83	3	Horizontal	333	1.47	-	24.38	40.00	12.76	33.93
PK	11.47902G	56.96	74.00	-17.04	18.78	3	Horizontal	333	1.47	-	38.18	39.96	12.75	33.93

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

07/07/2020

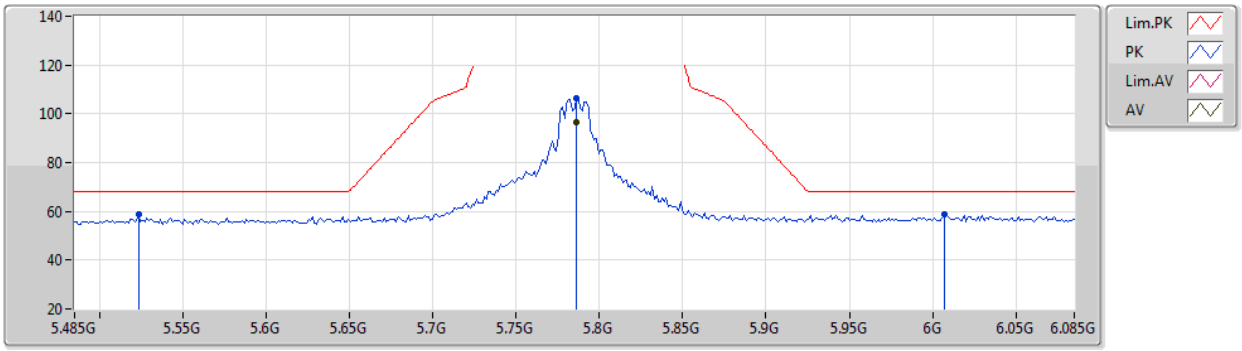


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.785G	106.39	Inf	-Inf	7.10	3	Vertical	281	3.00	-	99.29	32.00	9.07	33.97
PK	5.6302G	59.18	68.20	-9.02	6.65	3	Vertical	281	3.00	-	52.53	31.66	8.93	33.94
PK	5.785G	116.04	Inf	-Inf	7.10	3	Vertical	281	3.00	-	108.94	32.00	9.07	33.97
PK	5.9338G	60.25	68.20	-7.95	7.45	3	Vertical	281	3.00	-	52.80	32.30	9.14	33.99

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

07/07/2020

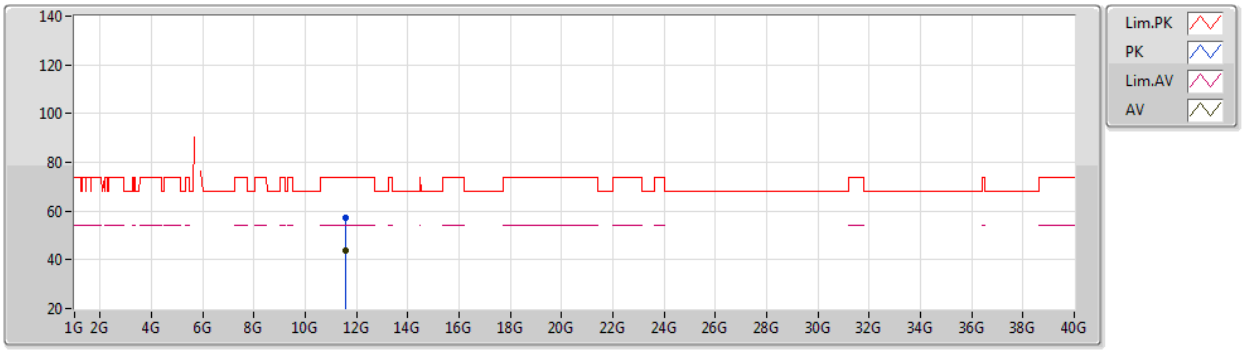


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7862G	96.73	Inf	-Inf	7.10	3	Horizontal	136	1.00	-	89.63	32.00	9.07	33.97
PK	5.5234G	58.69	68.20	-9.51	6.52	3	Horizontal	136	1.00	-	52.17	31.65	8.79	33.92
PK	5.7862G	106.42	Inf	-Inf	7.10	3	Horizontal	136	1.00	-	99.32	32.00	9.07	33.97
PK	6.007G	58.70	68.20	-9.50	7.57	3	Horizontal	136	1.00	-	51.13	32.39	9.18	34.00

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

07/07/2020

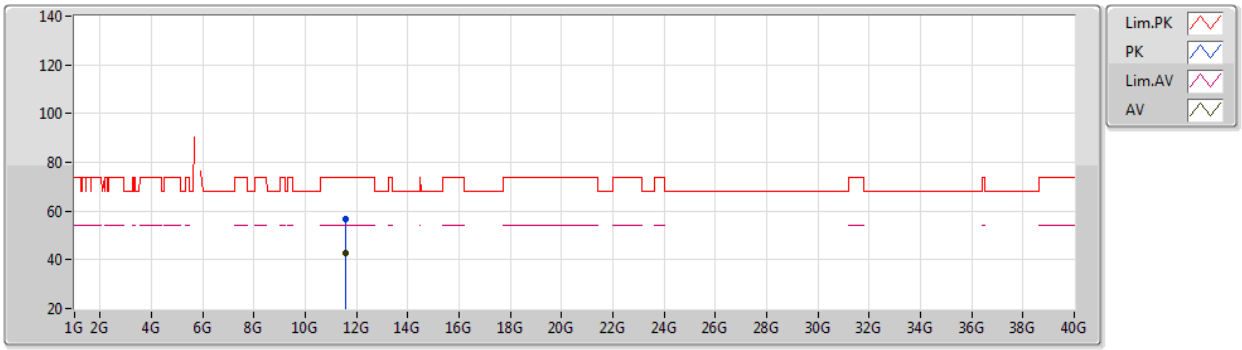


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57024G	43.64	54.00	-10.36	18.78	3	Vertical	162	1.74	-	24.86	39.93	12.79	33.94
PK	11.57108G	57.50	74.00	-16.50	18.78	3	Vertical	162	1.74	-	38.72	39.93	12.79	33.94

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

07/07/2020

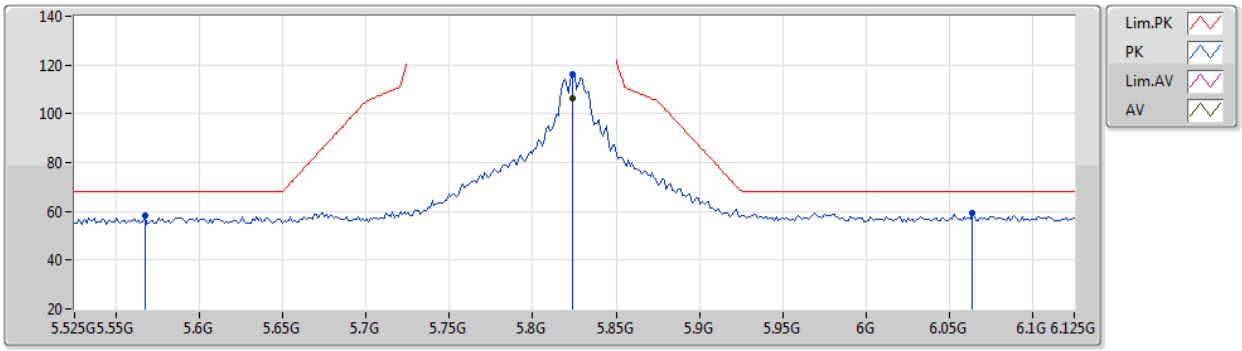


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57068G	42.70	54.00	-11.30	18.78	3	Horizontal	52	1.50	-	23.92	39.93	12.79	33.94
PK	11.57006G	56.77	74.00	-17.23	18.78	3	Horizontal	52	1.50	-	37.99	39.93	12.79	33.94

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

07/07/2020

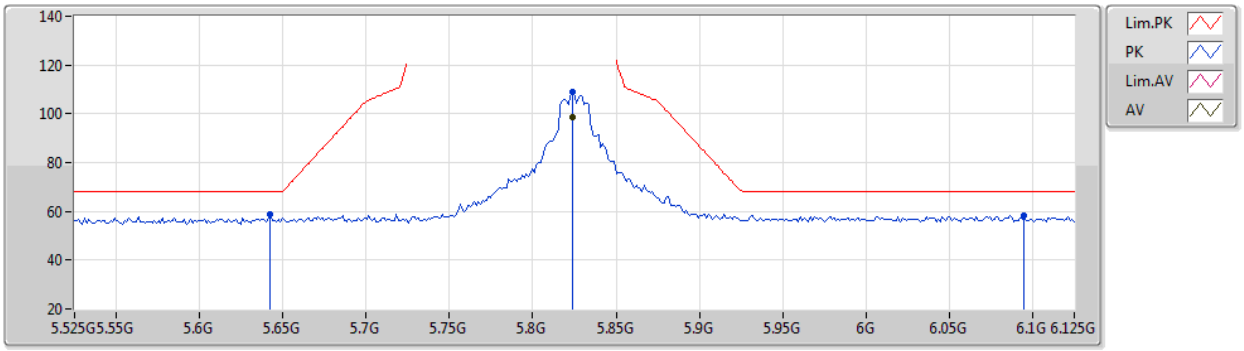


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8238G	106.49	Inf	-Inf	7.22	3	Vertical	285	2.27	-	99.27	32.10	9.09	33.97
PK	5.567G	58.17	68.20	-10.03	6.52	3	Vertical	285	2.27	-	51.65	31.60	8.85	33.93
PK	5.8238G	116.24	Inf	-Inf	7.22	3	Vertical	285	2.27	-	109.02	32.10	9.09	33.97
PK	6.0638G	59.49	68.20	-8.71	7.55	3	Vertical	285	2.27	-	51.94	32.33	9.22	34.00

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

07/07/2020

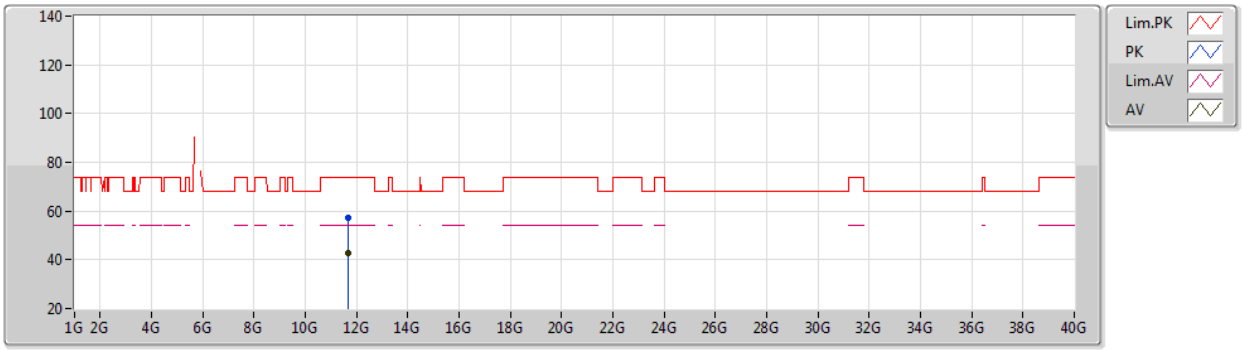


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8238G	98.67	Inf	-Inf	7.22	3	Horizontal	325	3.00	-	91.45	32.10	9.09	33.97
PK	5.6426G	58.93	68.20	-9.27	6.69	3	Horizontal	325	3.00	-	52.24	31.69	8.94	33.94
PK	5.8238G	108.97	Inf	-Inf	7.22	3	Horizontal	325	3.00	-	101.75	32.10	9.09	33.97
PK	6.095G	58.33	68.20	-9.87	7.64	3	Horizontal	325	3.00	-	50.69	32.39	9.25	34.00

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

07/07/2020

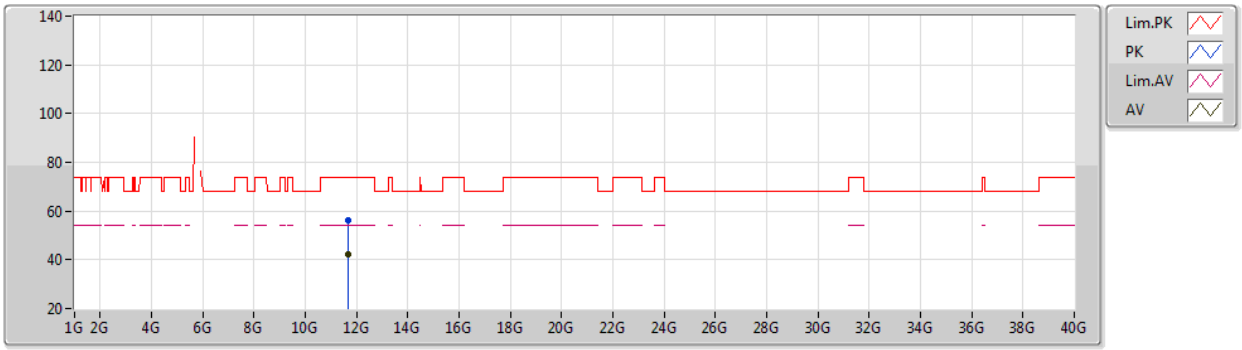


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64993G	42.99	54.00	-11.01	18.43	3	Vertical	148	1.49	-	24.56	39.55	12.83	33.95
PK	11.64962G	57.00	74.00	-17.00	18.43	3	Vertical	148	1.49	-	38.57	39.55	12.83	33.95

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

07/07/2020

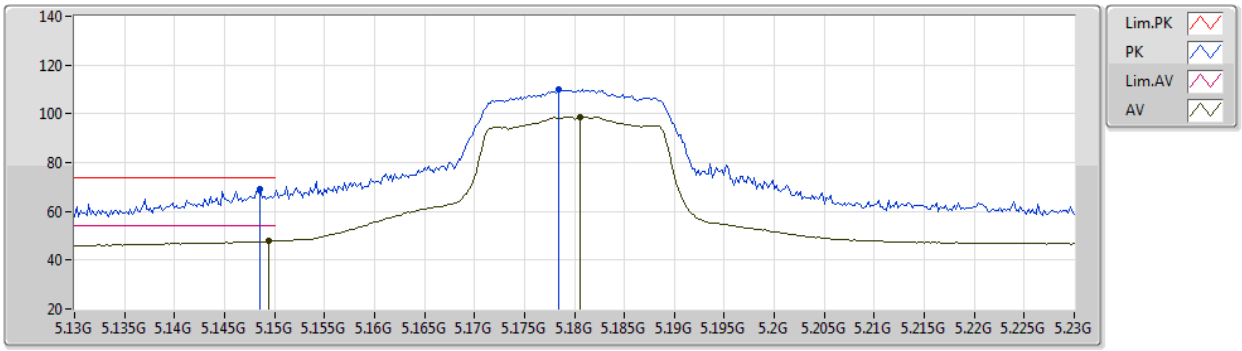


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64919G	42.39	54.00	-11.61	18.44	3	Horizontal	89	1.47	-	23.95	39.56	12.83	33.95
PK	11.64794G	56.19	74.00	-17.81	18.44	3	Horizontal	89	1.47	-	37.75	39.56	12.83	33.95

802.11ac VHT20_Nss1,(MCS0)_2TX

07/07/2020

5180MHz_TX

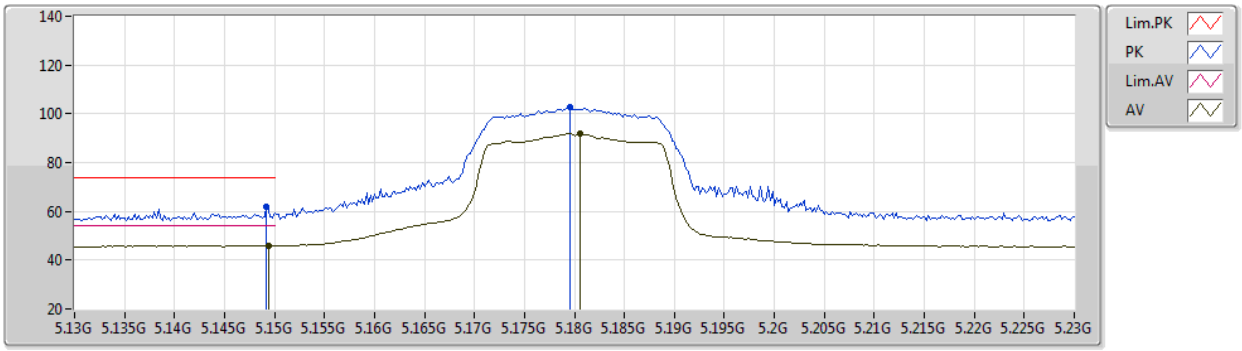


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1494G	48.02	54.00	-5.98	6.39	3	Vertical	95	2.87	-	41.63	31.70	8.52	33.83
AV	5.1806G	98.86	Inf	-Inf	6.29	3	Vertical	95	2.87	-	92.57	31.58	8.55	33.84
PK	5.1486G	68.93	74.00	-5.07	6.39	3	Vertical	95	2.87	-	62.54	31.70	8.52	33.83
PK	5.1784G	110.10	Inf	-Inf	6.30	3	Vertical	95	2.87	-	103.80	31.59	8.55	33.84

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/07/2020

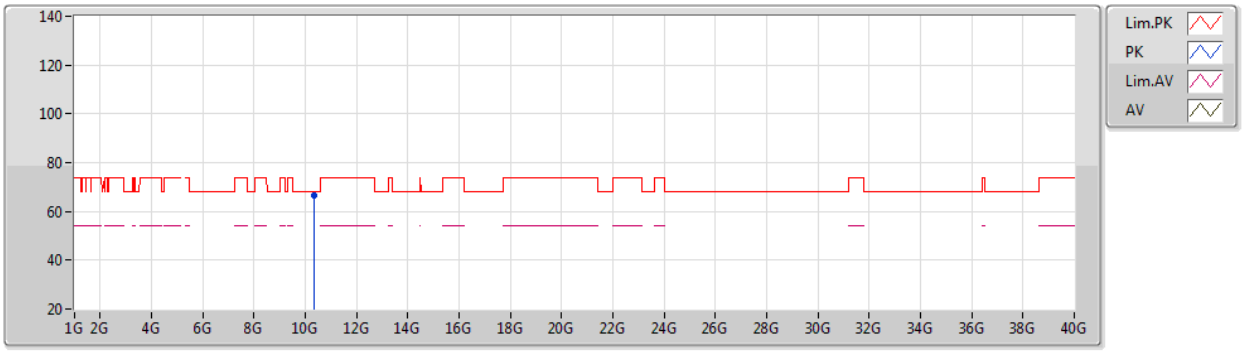


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1494G	45.95	54.00	-8.05	6.39	3	Horizontal	153	1.98	-	39.56	31.70	8.52	33.83
AV	5.1806G	91.94	Inf	-Inf	6.29	3	Horizontal	153	1.98	-	85.65	31.58	8.55	33.84
PK	5.1492G	61.94	74.00	-12.06	6.39	3	Horizontal	153	1.98	-	55.55	31.70	8.52	33.83
PK	5.1796G	102.78	Inf	-Inf	6.29	3	Horizontal	153	1.98	-	96.49	31.58	8.55	33.84

802.11ac VHT20_Nss1,(MCS0)_2TX

07/07/2020

5180MHz_TX

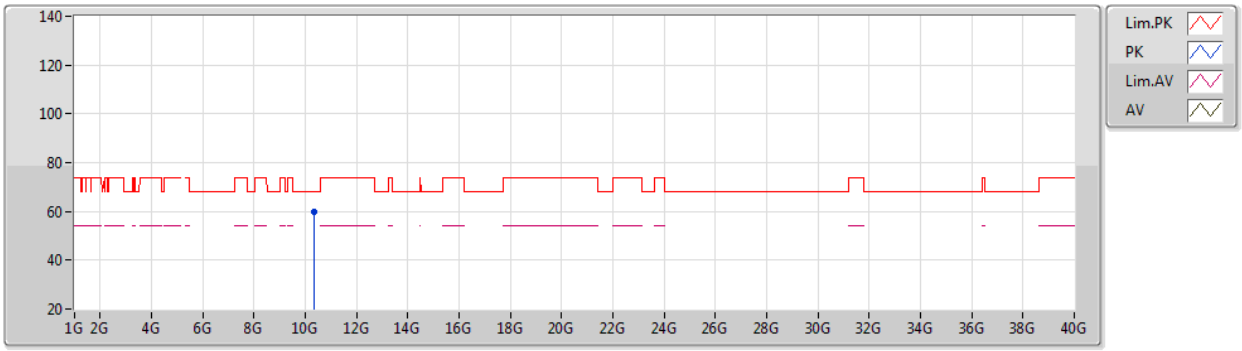


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.35984G	66.80	68.20	-1.40	17.26	3	Vertical	200	1.65	-	49.54	39.38	12.18	34.30

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/07/2020

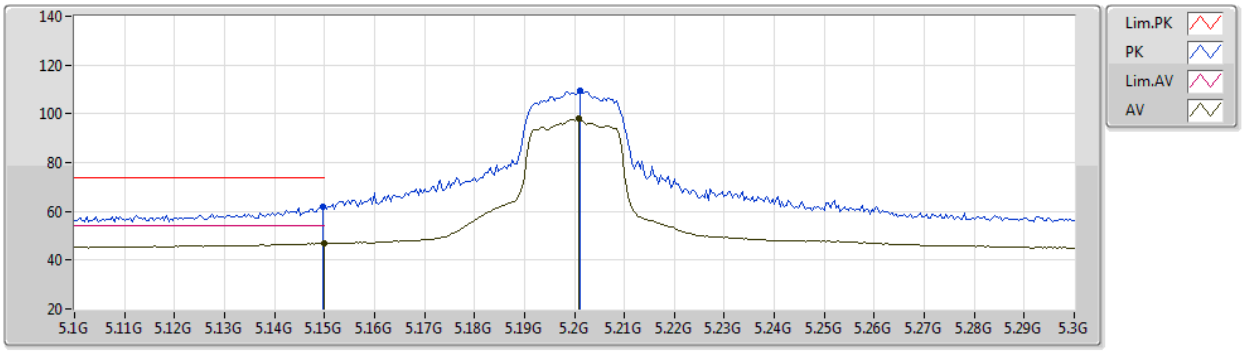


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.36212G	59.83	68.20	-8.37	17.27	3	Horizontal	40	1.82	-	42.56	39.39	12.18	34.30

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/07/2020

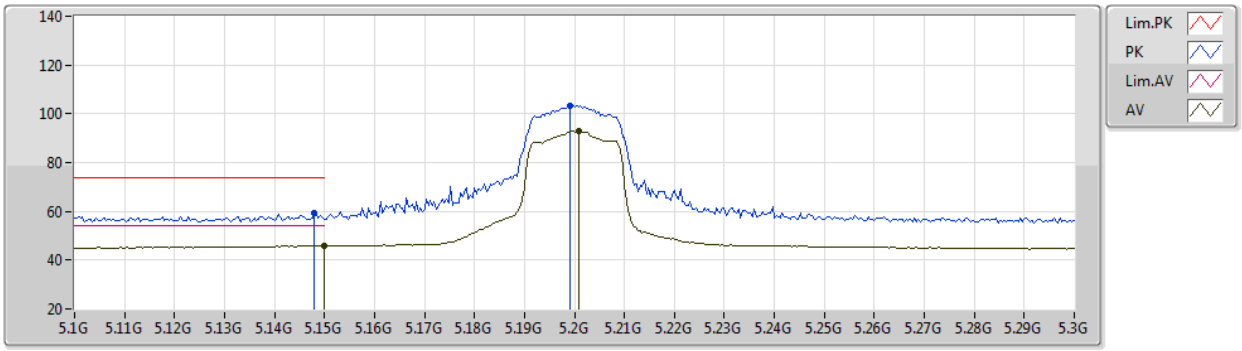


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	46.86	54.00	-7.14	6.39	3	Vertical	285	2.95	-	40.47	31.70	8.52	33.83
AV	5.2008G	97.96	Inf	-Inf	6.22	3	Vertical	285	2.95	-	91.74	31.50	8.57	33.85
PK	5.1496G	62.08	74.00	-11.92	6.39	3	Vertical	285	2.95	-	55.69	31.70	8.52	33.83
PK	5.2012G	109.44	Inf	-Inf	6.21	3	Vertical	285	2.95	-	103.23	31.49	8.57	33.85

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/07/2020

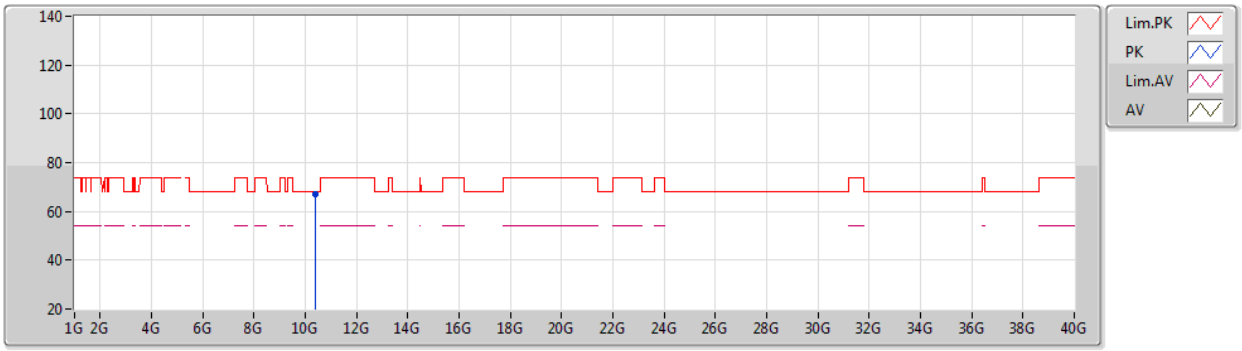


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	45.88	54.00	-8.12	6.39	3	Horizontal	152	1.75	-	39.49	31.70	8.52	33.83
AV	5.2008G	92.84	Inf	-Inf	6.22	3	Horizontal	152	1.75	-	86.62	31.50	8.57	33.85
PK	5.148G	59.16	74.00	-14.84	6.39	3	Horizontal	152	1.75	-	52.77	31.70	8.52	33.83
PK	5.1992G	103.44	Inf	-Inf	6.22	3	Horizontal	152	1.75	-	97.22	31.50	8.57	33.85

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/07/2020

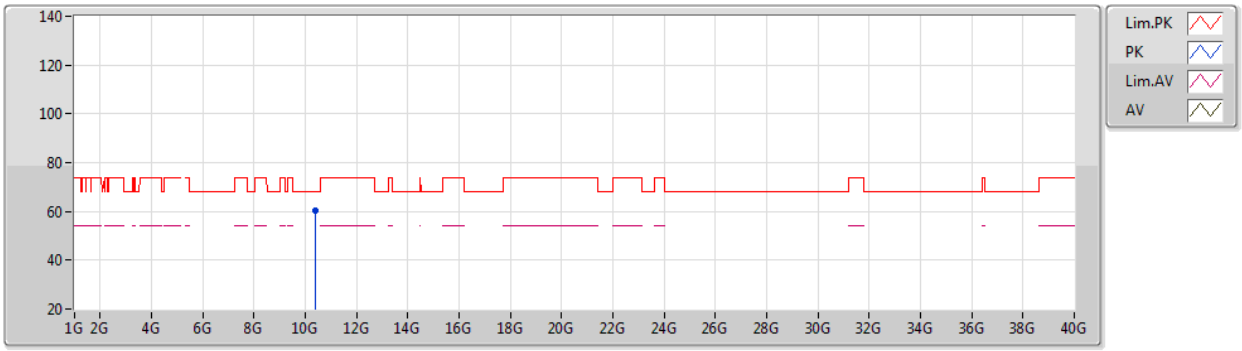


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.39732G	67.00	68.20	-1.20	17.42	3	Vertical	199	1.57	-	49.58	39.49	12.20	34.27

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/07/2020

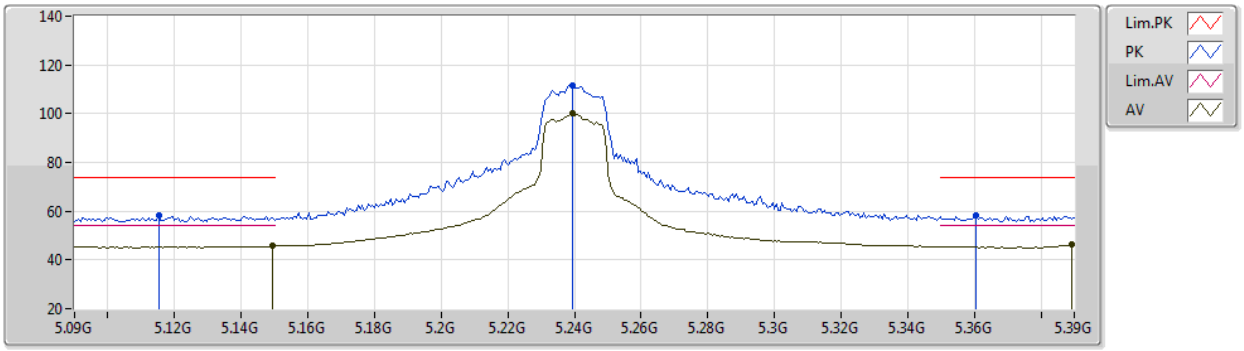


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.39676G	60.55	68.20	-7.65	17.42	3	Horizontal	50	1.96	-	43.13	39.49	12.20	34.27

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/07/2020

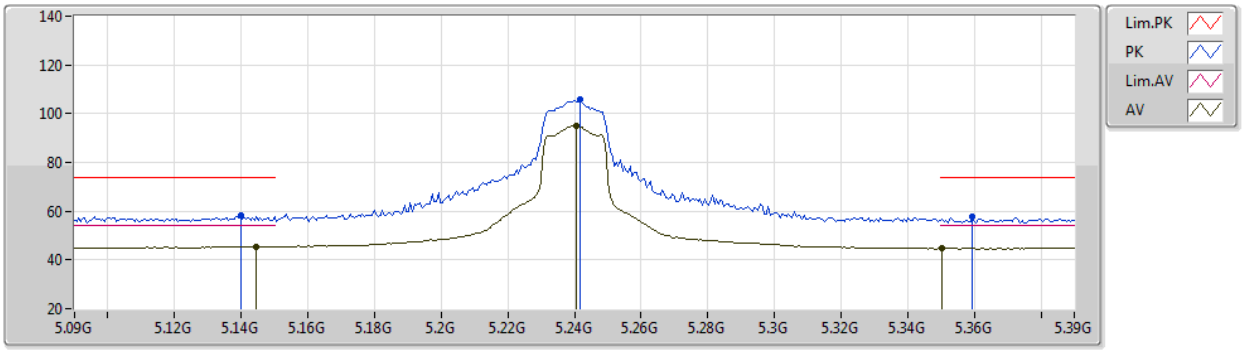


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1494G	45.79	54.00	-8.21	6.39	3	Vertical	97	3.00	-	39.40	31.70	8.52	33.83
AV	5.2394G	99.94	Inf	-Inf	5.98	3	Vertical	97	3.00	-	93.96	31.26	8.58	33.86
AV	5.3894G	46.14	54.00	-7.86	5.95	3	Vertical	97	3.00	-	40.19	31.24	8.61	33.90
PK	5.1152G	58.37	74.00	-15.63	6.37	3	Vertical	97	3.00	-	52.00	31.70	8.49	33.82
PK	5.2394G	111.72	Inf	-Inf	5.98	3	Vertical	97	3.00	-	105.74	31.26	8.58	33.86
PK	5.3606G	58.04	74.00	-15.96	5.77	3	Vertical	97	3.00	-	52.27	31.06	8.60	33.89

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/07/2020

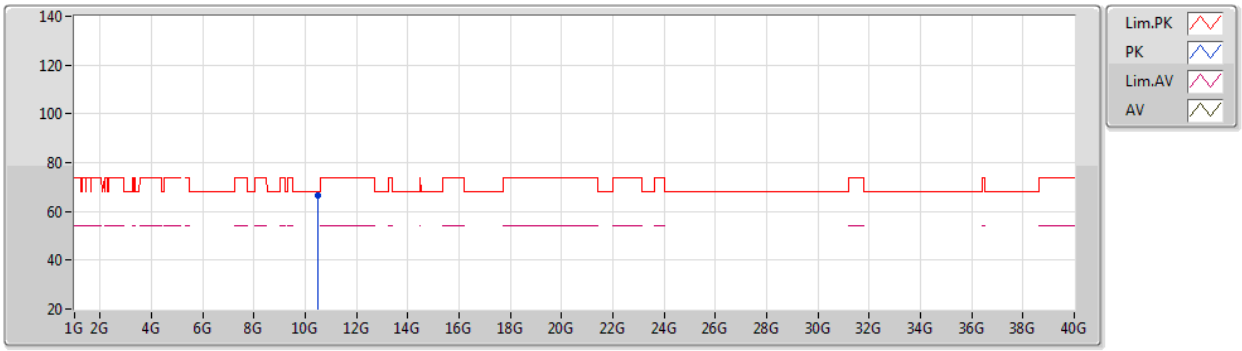


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1446G	45.51	54.00	-8.49	6.39	3	Horizontal	153	1.96	-	39.12	31.70	8.52	33.83
AV	5.2406G	94.94	Inf	-Inf	5.98	3	Horizontal	153	1.96	-	88.96	31.26	8.58	33.86
AV	5.3504G	44.83	54.00	-9.17	5.71	3	Horizontal	153	1.96	-	39.12	31.00	8.60	33.89
PK	5.1398G	58.29	74.00	-15.71	6.38	3	Horizontal	153	1.96	-	51.91	31.70	8.51	33.83
PK	5.2418G	105.95	Inf	-Inf	5.97	3	Horizontal	153	1.96	-	99.98	31.25	8.58	33.86
PK	5.3594G	57.64	74.00	-16.36	5.77	3	Horizontal	153	1.96	-	51.87	31.06	8.60	33.89

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/07/2020

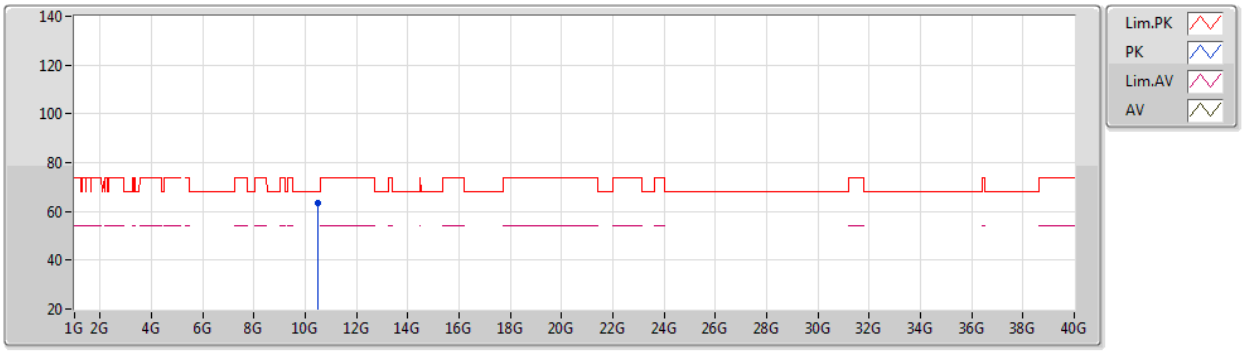


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.47868G	66.81	68.20	-1.39	17.69	3	Vertical	200	1.65	-	49.12	39.66	12.24	34.21

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/07/2020

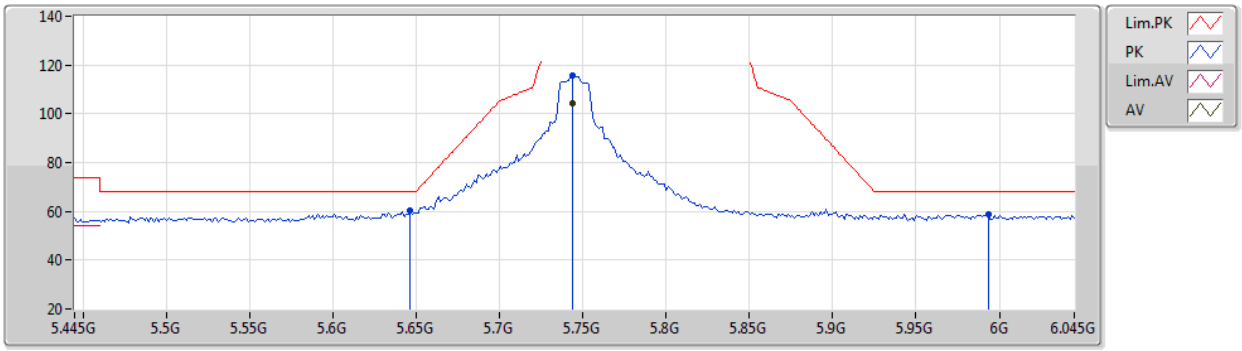


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.47848G	63.36	68.20	-4.84	17.68	3	Horizontal	69	1.88	-	45.68	39.66	12.24	34.22

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

07/07/2020

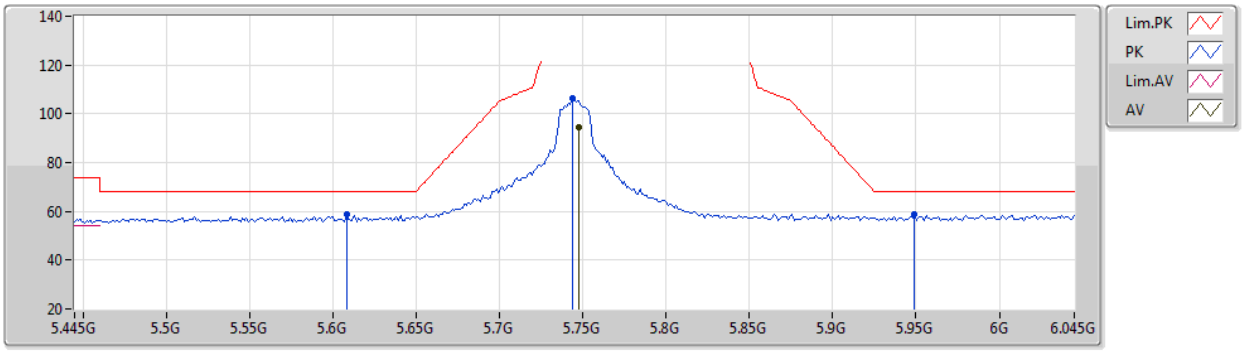


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7438G	104.37	Inf	-Inf	7.05	3	Vertical	285	2.52	-	97.32	31.98	9.03	33.96
PK	5.6466G	60.11	68.20	-8.09	6.69	3	Vertical	285	2.52	-	53.42	31.69	8.94	33.94
PK	5.7438G	115.83	Inf	-Inf	7.05	3	Vertical	285	2.52	-	108.78	31.98	9.03	33.96
PK	5.9934G	58.94	68.20	-9.26	7.56	3	Vertical	285	2.52	-	51.38	32.39	9.17	34.00

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

07/07/2020

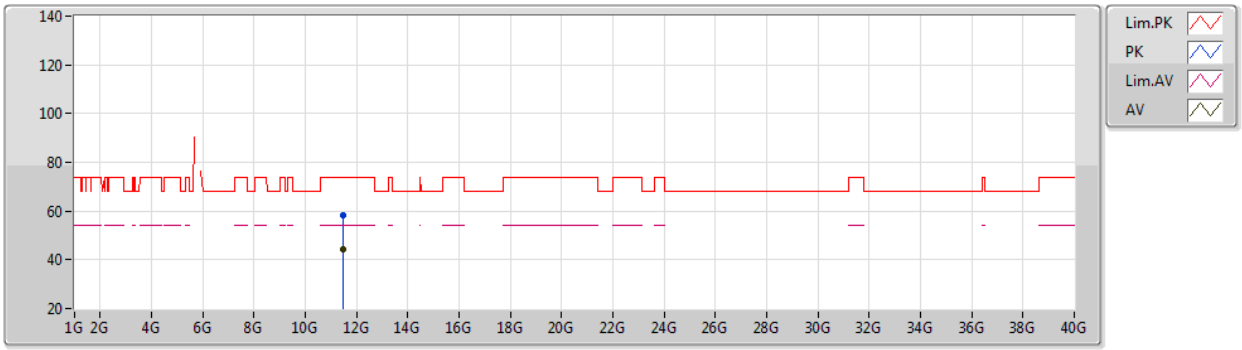


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7474G	94.44	Inf	-Inf	7.06	3	Horizontal	136	0.99	-	87.38	31.99	9.03	33.96
PK	5.6082G	58.98	68.20	-9.22	6.59	3	Horizontal	136	0.99	-	52.39	31.62	8.91	33.94
PK	5.7438G	106.36	Inf	-Inf	7.05	3	Horizontal	136	0.99	-	99.31	31.98	9.03	33.96
PK	5.949G	58.99	68.20	-9.21	7.46	3	Horizontal	136	0.99	-	51.53	32.30	9.15	33.99

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

07/07/2020

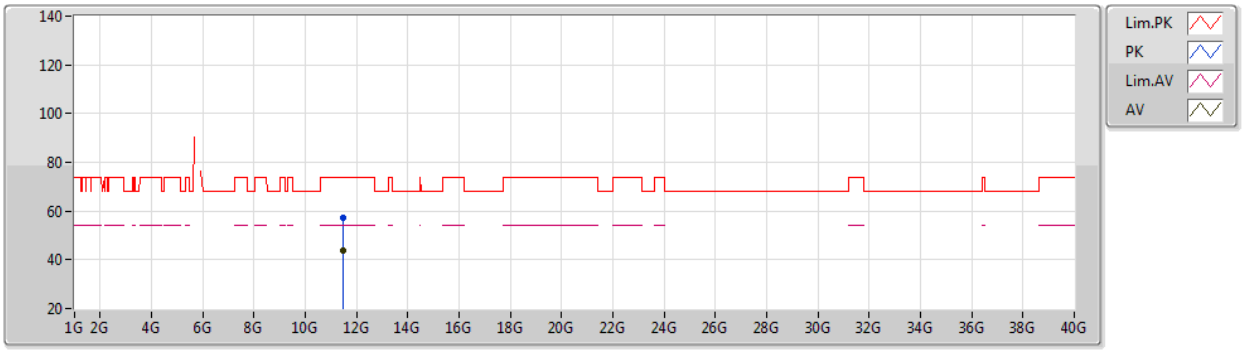


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.48996G	44.26	54.00	-9.74	18.80	3	Vertical	158	1.63	-	25.46	39.98	12.75	33.93
PK	11.49016G	58.53	74.00	-15.47	18.80	3	Vertical	158	1.63	-	39.73	39.98	12.75	33.93

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

07/07/2020

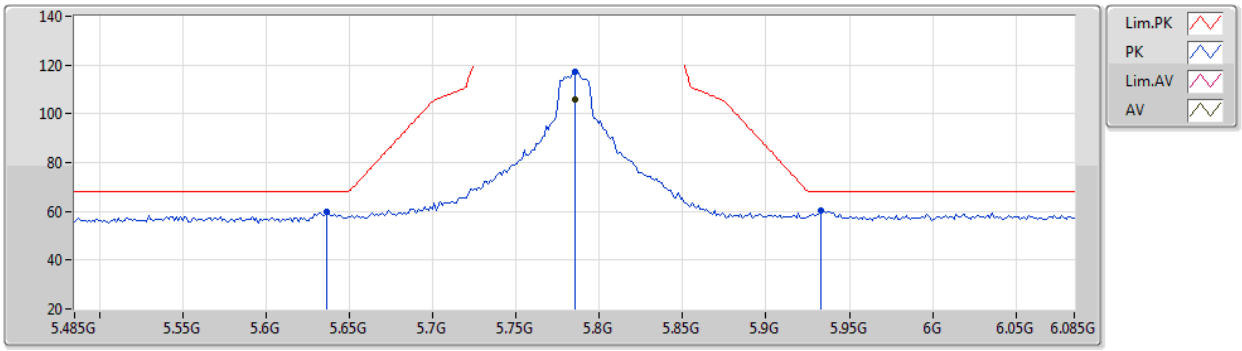


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4898G	43.56	54.00	-10.44	18.80	3	Horizontal	227	1.49	-	24.76	39.98	12.75	33.93
PK	11.483G	56.99	74.00	-17.01	18.79	3	Horizontal	227	1.49	-	38.20	39.97	12.75	33.93

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

07/07/2020

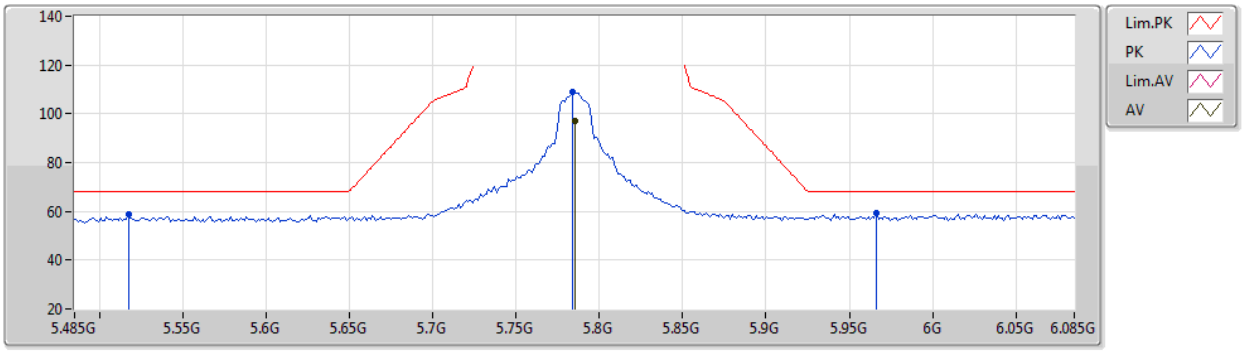


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.785G	106.11	Inf	-Inf	7.10	3	Vertical	107	3.00	-	99.01	32.00	9.07	33.97
PK	5.6362G	59.57	68.20	-8.63	6.66	3	Vertical	107	3.00	-	52.91	31.67	8.93	33.94
PK	5.785G	117.45	Inf	-Inf	7.10	3	Vertical	107	3.00	-	110.35	32.00	9.07	33.97
PK	5.9326G	60.25	68.20	-7.95	7.45	3	Vertical	107	3.00	-	52.80	32.30	9.14	33.99

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

07/07/2020

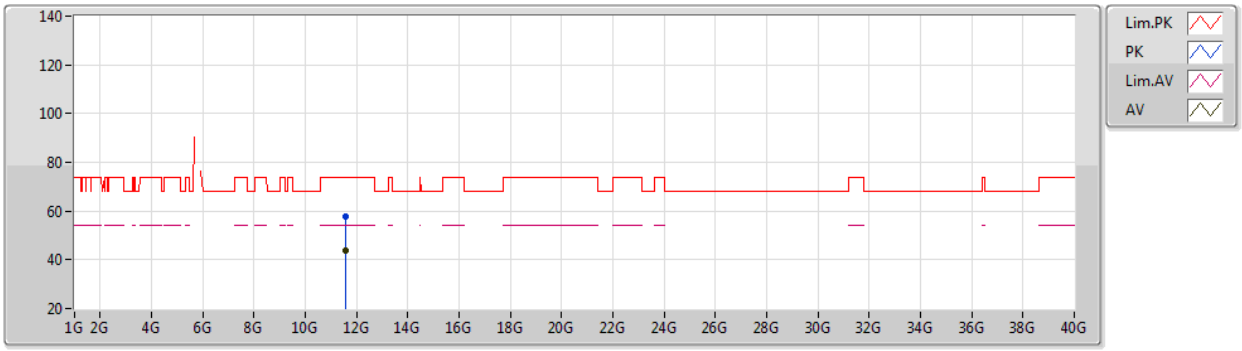


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.785G	97.24	Inf	-Inf	7.10	3	Horizontal	126	2.24	-	90.14	32.00	9.07	33.97
PK	5.5174G	58.63	68.20	-9.57	6.53	3	Horizontal	126	2.24	-	52.10	31.67	8.78	33.92
PK	5.7838G	108.96	Inf	-Inf	7.10	3	Horizontal	126	2.24	-	101.86	32.00	9.07	33.97
PK	5.9662G	59.27	68.20	-8.93	7.49	3	Horizontal	126	2.24	-	51.78	32.33	9.15	33.99

802.11ac VHT20_Nss1,(MCS0)_2TX

07/07/2020

5785MHz_TX

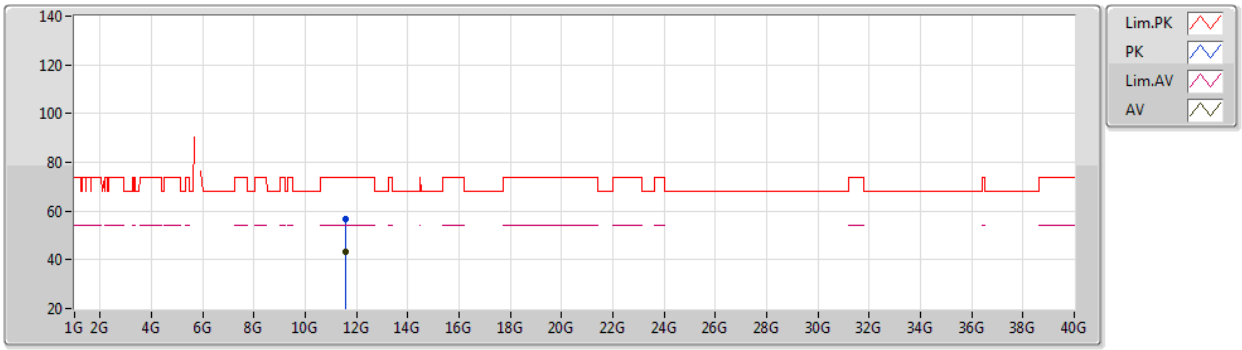


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56844G	43.79	54.00	-10.21	18.78	3	Vertical	154	1.00	-	25.01	39.93	12.79	33.94
PK	11.57632G	57.61	74.00	-16.39	18.78	3	Vertical	154	1.00	-	38.83	39.92	12.80	33.94

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

07/07/2020

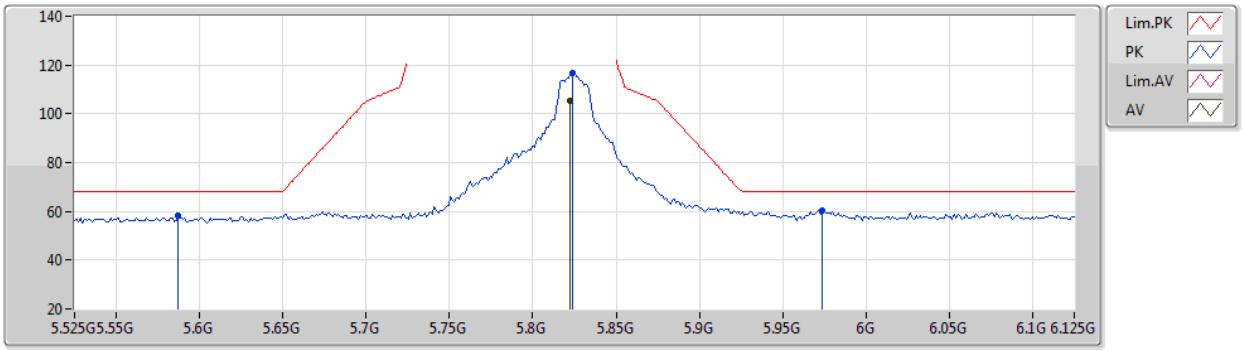


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56G	43.41	54.00	-10.59	18.79	3	Horizontal	212	1.48	-	24.62	39.94	12.79	33.94
PK	11.5628G	56.96	74.00	-17.04	18.79	3	Horizontal	212	1.48	-	38.17	39.94	12.79	33.94

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

07/07/2020

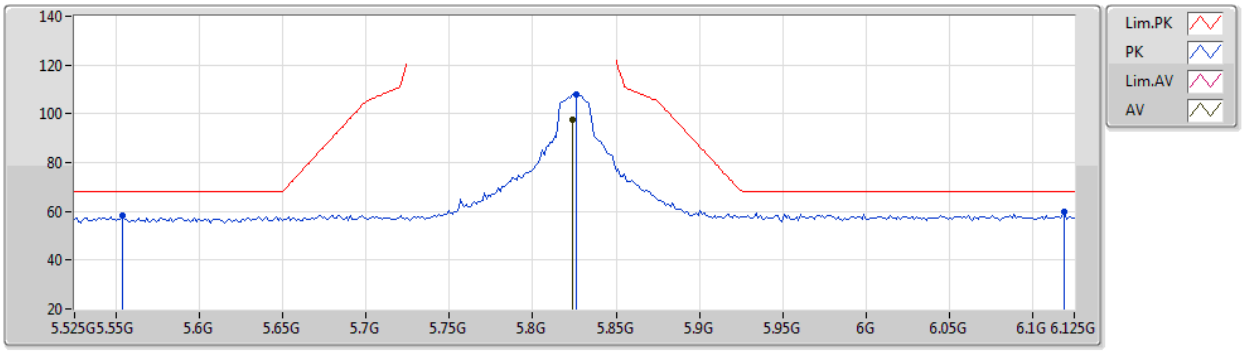


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8226G	105.25	Inf	-Inf	7.21	3	Vertical	84	3.00	-	98.04	32.09	9.09	33.97
PK	5.5874G	58.41	68.20	-9.79	6.54	3	Vertical	84	3.00	-	51.87	31.60	8.88	33.94
PK	5.8238G	116.65	Inf	-Inf	7.22	3	Vertical	84	3.00	-	109.43	32.10	9.09	33.97
PK	5.9738G	60.46	68.20	-7.74	7.52	3	Vertical	84	3.00	-	52.94	32.35	9.16	33.99

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

07/07/2020

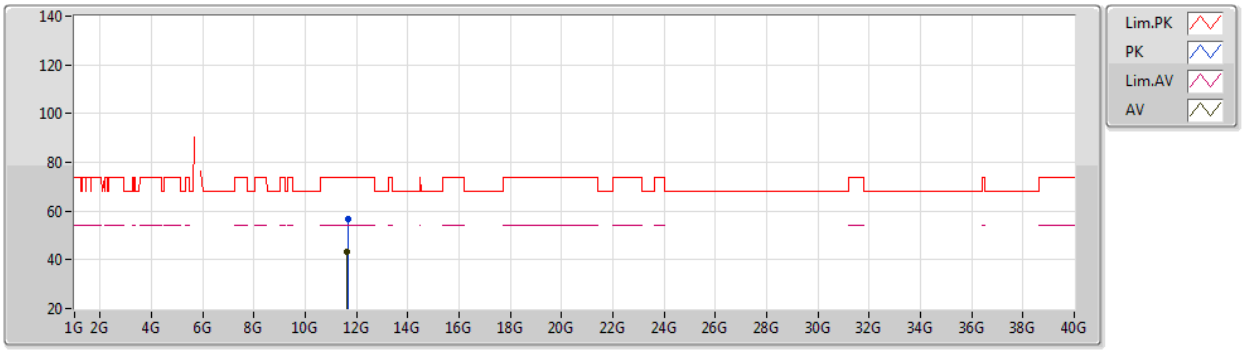


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8238G	97.40	Inf	-Inf	7.22	3	Horizontal	326	3.00	-	90.18	32.10	9.09	33.97
PK	5.5538G	58.02	68.20	-10.18	6.50	3	Horizontal	326	3.00	-	51.52	31.60	8.83	33.93
PK	5.8262G	108.18	Inf	-Inf	7.22	3	Horizontal	326	3.00	-	100.96	32.10	9.09	33.97
PK	6.119G	59.57	68.20	-8.63	7.71	3	Horizontal	326	3.00	-	51.86	32.44	9.27	34.00

802.11ac VHT20_Nss1,(MCS0)_2TX

07/07/2020

5825MHz_TX

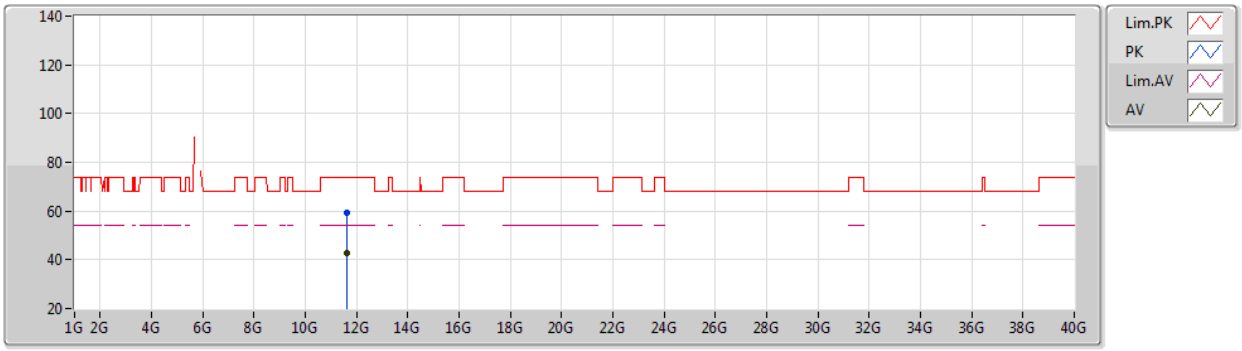


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64476G	43.13	54.00	-10.87	18.47	3	Vertical	360	2.83	-	24.66	39.59	12.83	33.95
PK	11.64944G	56.79	74.00	-17.21	18.43	3	Vertical	360	2.83	-	38.36	39.55	12.83	33.95

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

07/07/2020

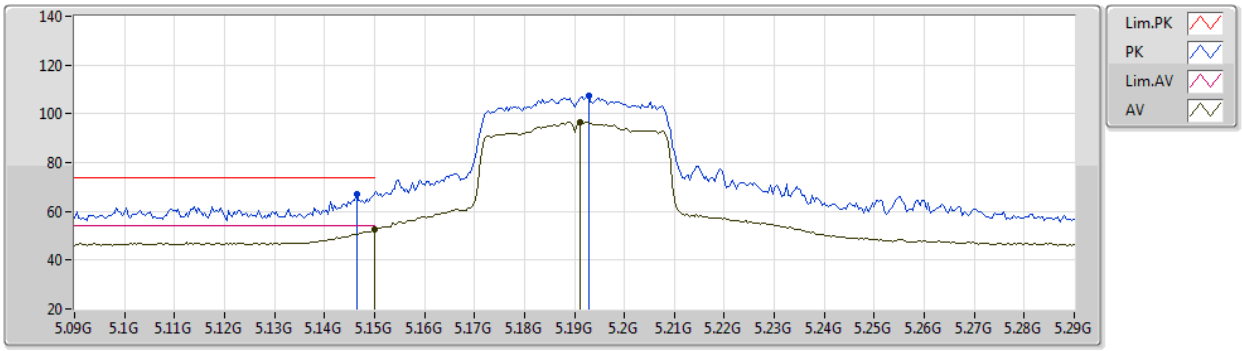


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6472G	42.98	54.00	-11.02	18.45	3	Horizontal	76	1.49	-	24.53	39.57	12.83	33.95
PK	11.64504G	59.16	74.00	-14.84	18.46	3	Horizontal	76	1.49	-	40.70	39.58	12.83	33.95

802.11ac VHT40_Nss1,(MCS0)_2TX

07/07/2020

5190MHz_TX

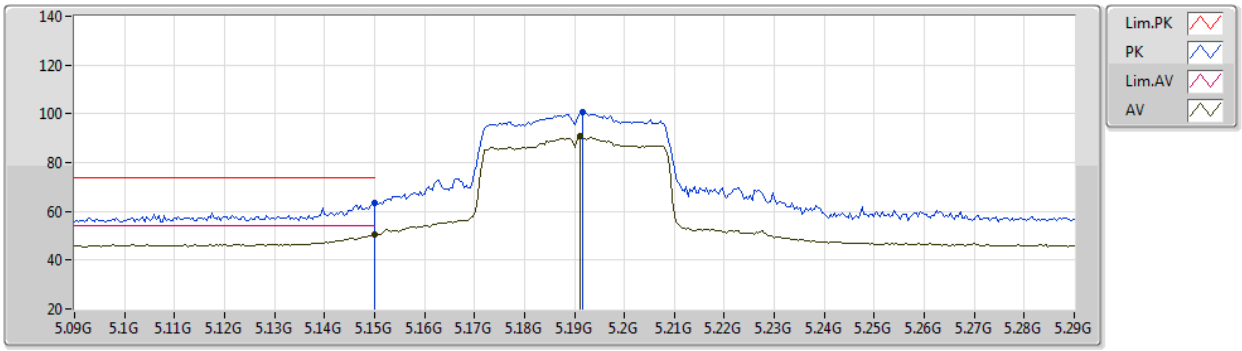


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	52.35	54.00	-1.65	6.39	3	Vertical	96	2.85	-	45.96	31.70	8.52	33.83
AV	5.1912G	96.76	Inf	-Inf	6.25	3	Vertical	96	2.85	-	90.51	31.54	8.56	33.85
PK	5.1464G	66.98	74.00	-7.02	6.39	3	Vertical	96	2.85	-	60.59	31.70	8.52	33.83
PK	5.1928G	107.19	Inf	-Inf	6.24	3	Vertical	96	2.85	-	100.95	31.53	8.56	33.85

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/07/2020

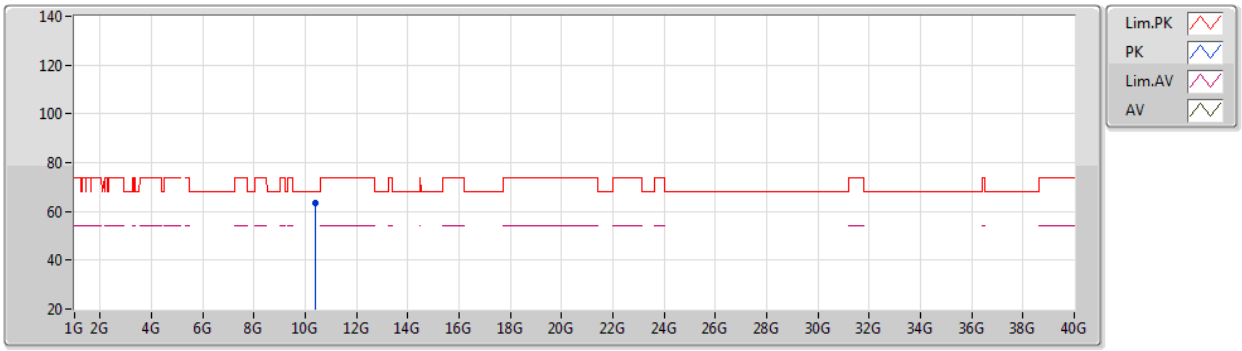


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	50.28	54.00	-3.72	6.39	3	Horizontal	156	2.14	-	43.89	31.70	8.52	33.83
AV	5.1912G	90.99	Inf	-Inf	6.25	3	Horizontal	156	2.14	-	84.74	31.54	8.56	33.85
PK	5.15G	63.24	74.00	-10.76	6.39	3	Horizontal	156	2.14	-	56.85	31.70	8.52	33.83
PK	5.1916G	100.88	Inf	-Inf	6.24	3	Horizontal	156	2.14	-	94.64	31.53	8.56	33.85

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/07/2020

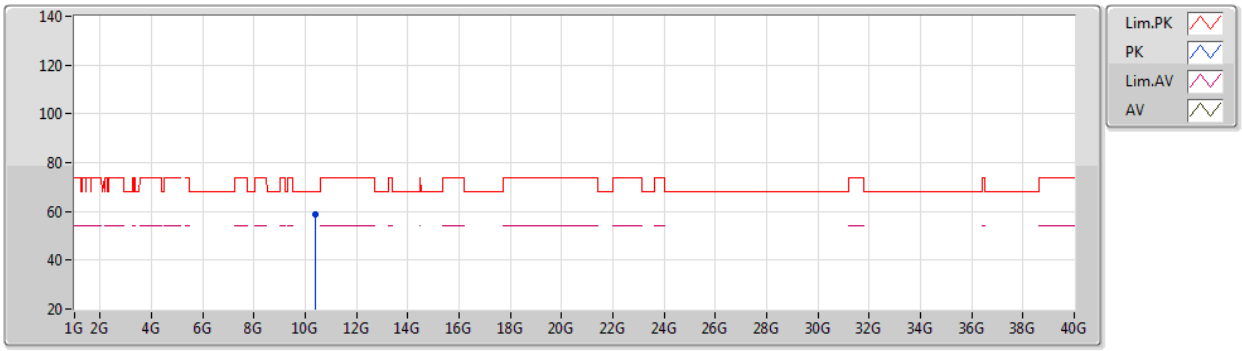


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.38048G	63.25	68.20	-4.95	17.35	3	Vertical	189	1.79	-	45.90	39.44	12.19	34.28

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/07/2020

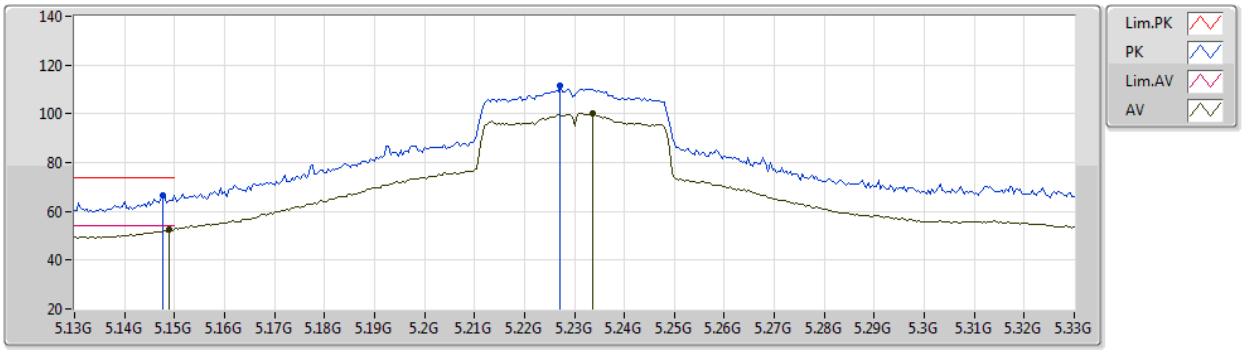


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.3732G	58.89	68.20	-9.31	17.32	3	Horizontal	36	1.92	-	41.57	39.42	12.19	34.29

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/07/2020

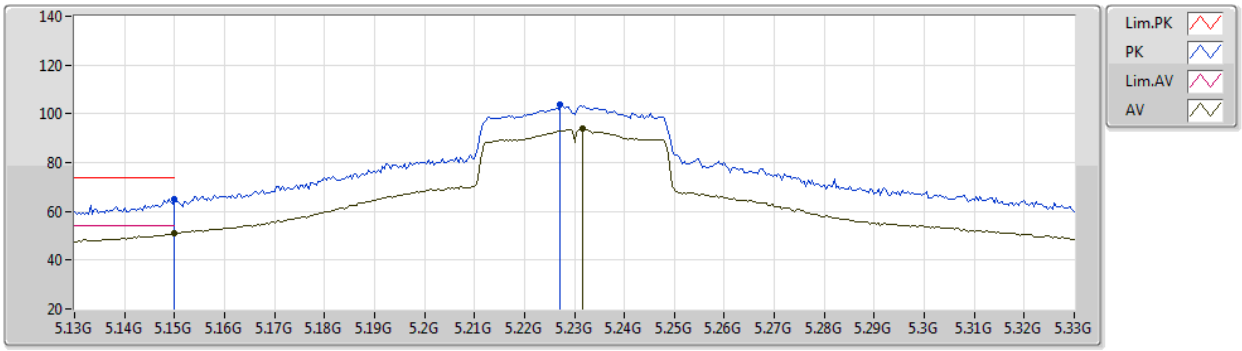


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1488G	52.43	54.00	-1.57	6.39	3	Vertical	95	3.00	-	46.04	31.70	8.52	33.83
AV	5.2336G	100.34	Inf	-Inf	6.02	3	Vertical	95	3.00	-	94.32	31.30	8.58	33.86
PK	5.1476G	66.43	74.00	-7.57	6.39	3	Vertical	95	3.00	-	60.04	31.70	8.52	33.83
PK	5.2272G	111.32	Inf	-Inf	6.06	3	Vertical	95	3.00	-	105.26	31.34	8.58	33.86

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/07/2020

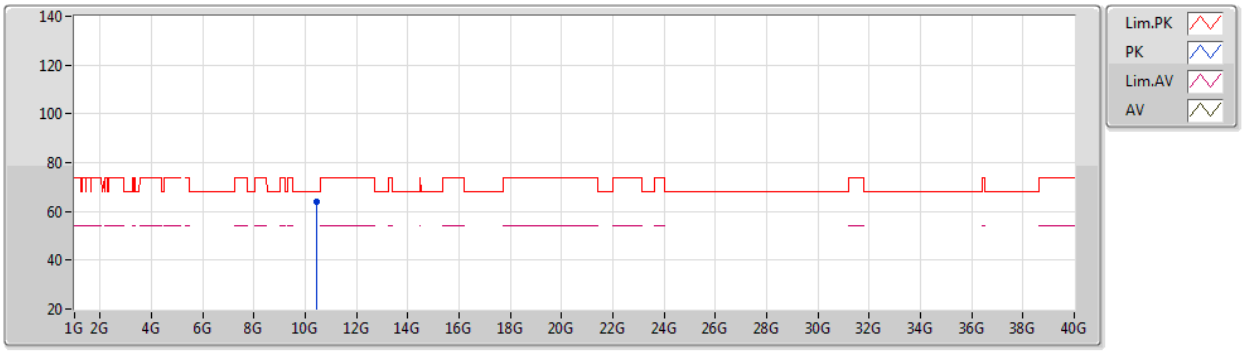


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	51.04	54.00	-2.96	6.39	3	Horizontal	152	1.82	-	44.65	31.70	8.52	33.83
AV	5.2316G	93.96	Inf	-Inf	6.03	3	Horizontal	152	1.82	-	87.93	31.31	8.58	33.86
PK	5.15G	65.06	74.00	-8.94	6.39	3	Horizontal	152	1.82	-	58.67	31.70	8.52	33.83
PK	5.2272G	103.79	Inf	-Inf	6.06	3	Horizontal	152	1.82	-	97.73	31.34	8.58	33.86

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/07/2020

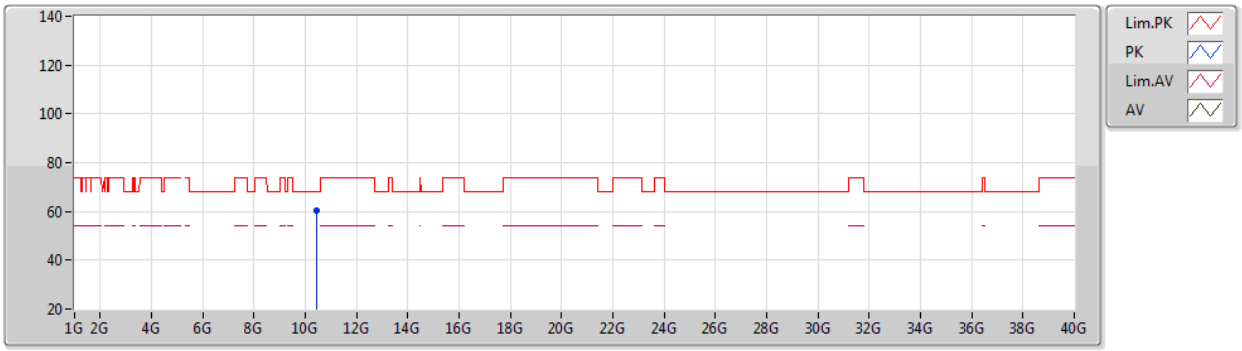


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.45672G	64.22	68.20	-3.98	17.61	3	Vertical	199	1.54	-	46.61	39.61	12.23	34.23

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/07/2020

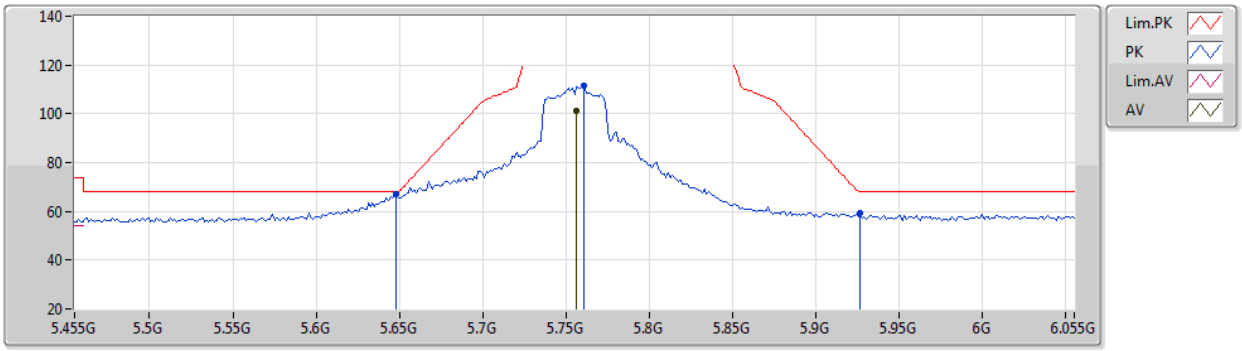


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.46128G	60.34	68.20	-7.86	17.62	3	Horizontal	36	1.88	-	42.72	39.62	12.23	34.23

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

07/07/2020

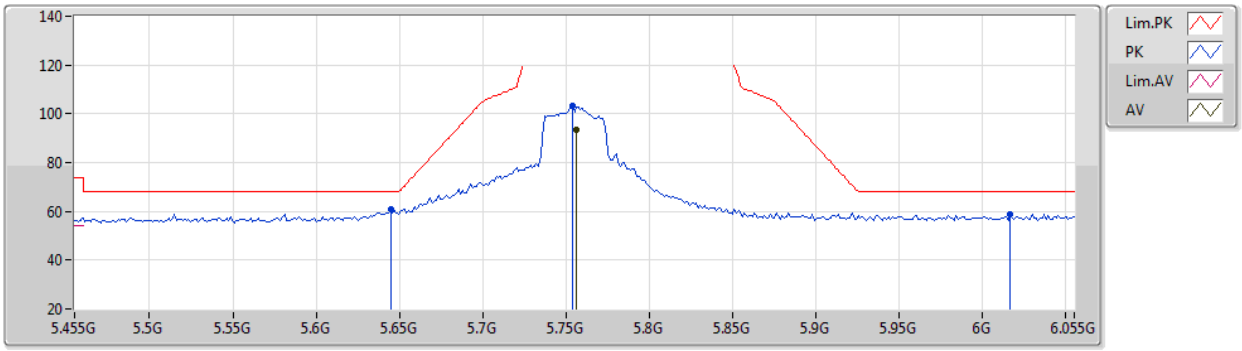


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7562G	101.05	Inf	-Inf	7.08	3	Vertical	79	2.77	-	93.97	32.00	9.04	33.96
PK	5.6482G	66.96	68.20	-1.24	6.70	3	Vertical	79	2.77	-	60.26	31.70	8.94	33.94
PK	5.761G	111.40	Inf	-Inf	7.08	3	Vertical	79	2.77	-	104.32	32.00	9.04	33.96
PK	5.9266G	59.26	68.20	-8.94	7.45	3	Vertical	79	2.77	-	51.81	32.30	9.14	33.99

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

07/07/2020

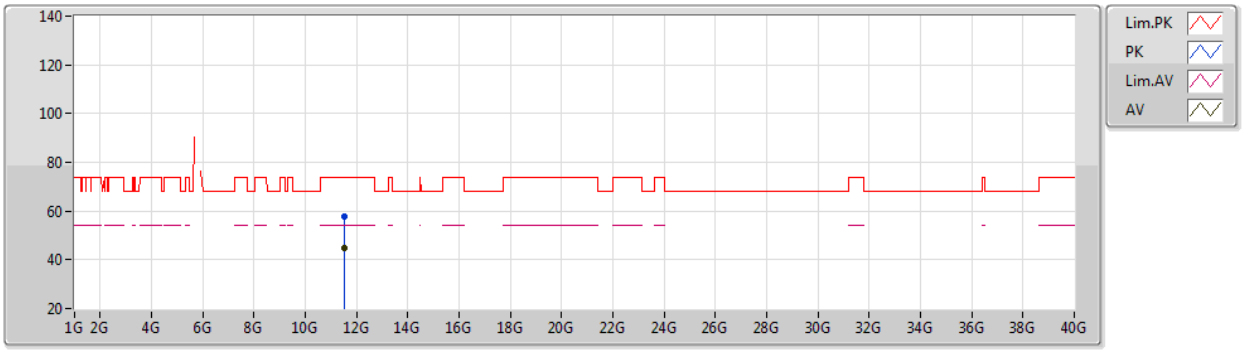


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7562G	93.45	Inf	-Inf	7.08	3	Horizontal	157	1.94	-	86.37	32.00	9.04	33.96
PK	5.6446G	60.79	68.20	-7.41	6.69	3	Horizontal	157	1.94	-	54.10	31.69	8.94	33.94
PK	5.7538G	103.03	Inf	-Inf	7.08	3	Horizontal	157	1.94	-	95.95	32.00	9.04	33.96
PK	6.0166G	58.65	68.20	-9.55	7.55	3	Horizontal	157	1.94	-	51.10	32.37	9.18	34.00

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

07/07/2020

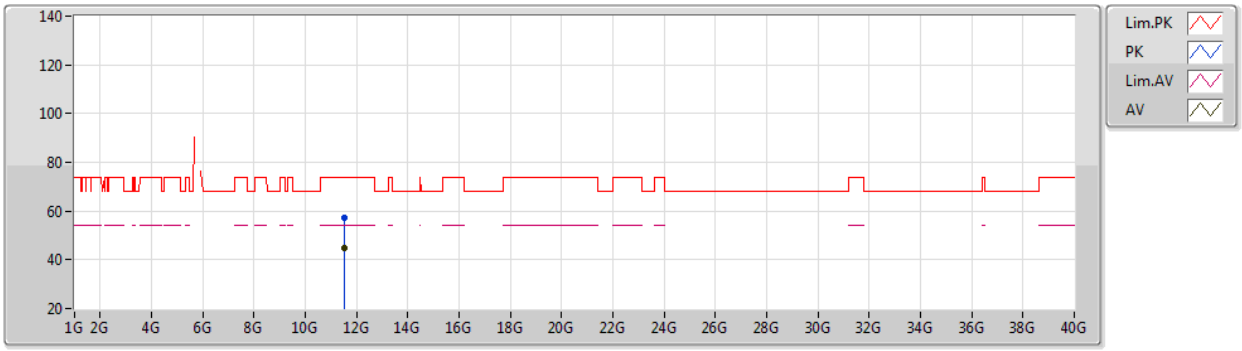


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5212G	44.74	54.00	-9.26	18.82	3	Vertical	0	1.18	-	25.92	39.98	12.77	33.93
PK	11.50352G	57.91	74.00	-16.09	18.83	3	Vertical	0	1.18	-	39.08	40.00	12.76	33.93

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

07/07/2020

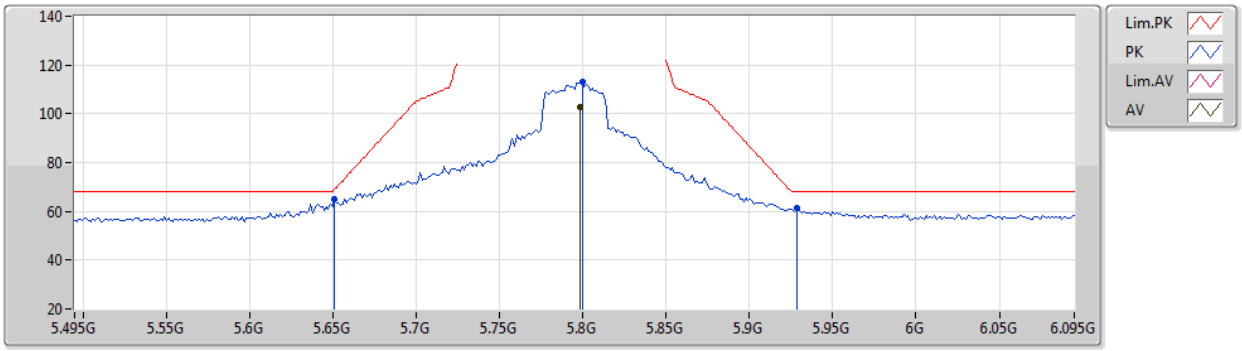


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.502G	44.74	54.00	-9.26	18.83	3	Horizontal	280	1.50	-	25.91	40.00	12.76	33.93
PK	11.5184G	57.12	74.00	-16.88	18.82	3	Horizontal	280	1.50	-	38.30	39.98	12.77	33.93

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

07/07/2020

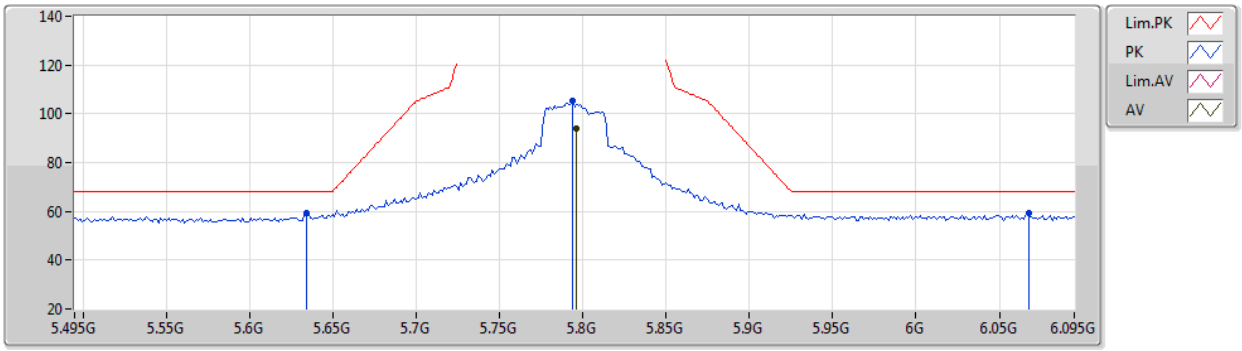


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7986G	102.60	Inf	-Inf	7.11	3	Vertical	271	2.57	-	95.49	32.00	9.08	33.97
PK	5.651G	65.23	68.94	-3.71	6.70	3	Vertical	271	2.57	-	58.53	31.70	8.95	33.95
PK	5.7998G	113.03	Inf	-Inf	7.11	3	Vertical	271	2.57	-	105.92	32.00	9.08	33.97
PK	5.9282G	61.27	68.20	-6.93	7.45	3	Vertical	271	2.57	-	53.82	32.30	9.14	33.99

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

07/07/2020

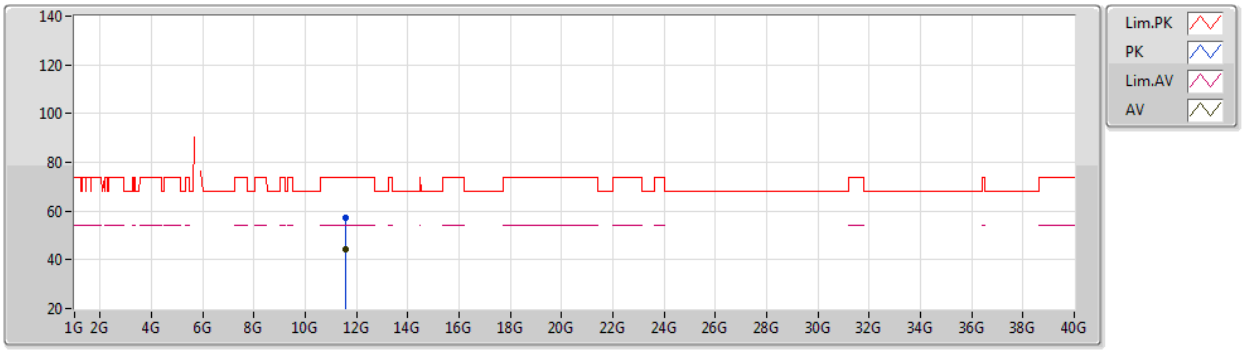


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7962G	94.13	Inf	-Inf	7.11	3	Horizontal	137	2.15	-	87.02	32.00	9.08	33.97
PK	5.6342G	59.22	68.20	-8.98	6.66	3	Horizontal	137	2.15	-	52.56	31.67	8.93	33.94
PK	5.7938G	105.20	Inf	-Inf	7.10	3	Horizontal	137	2.15	-	98.10	32.00	9.07	33.97
PK	6.0674G	59.34	68.20	-8.86	7.55	3	Horizontal	137	2.15	-	51.79	32.33	9.22	34.00

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

07/07/2020

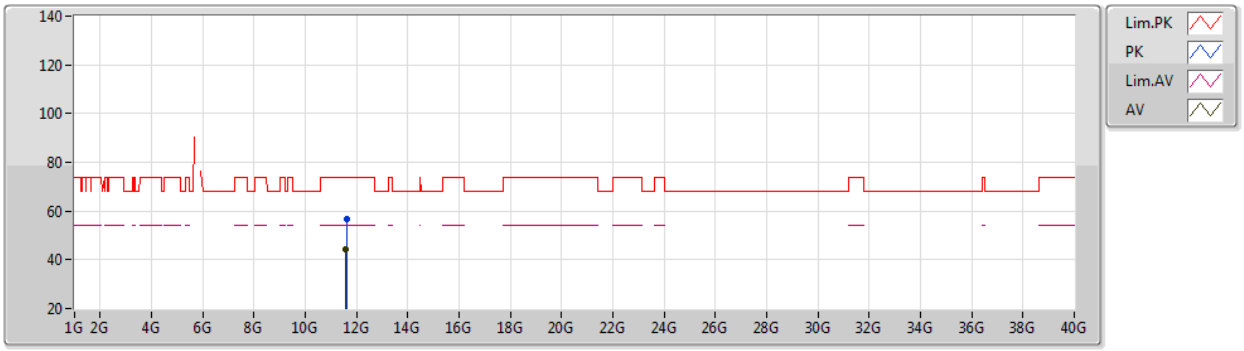


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57632G	44.48	54.00	-9.52	18.78	3	Vertical	126	1.49	-	25.70	39.92	12.80	33.94
PK	11.59344G	57.02	74.00	-16.98	18.77	3	Vertical	126	1.49	-	38.25	39.91	12.80	33.94

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

07/07/2020

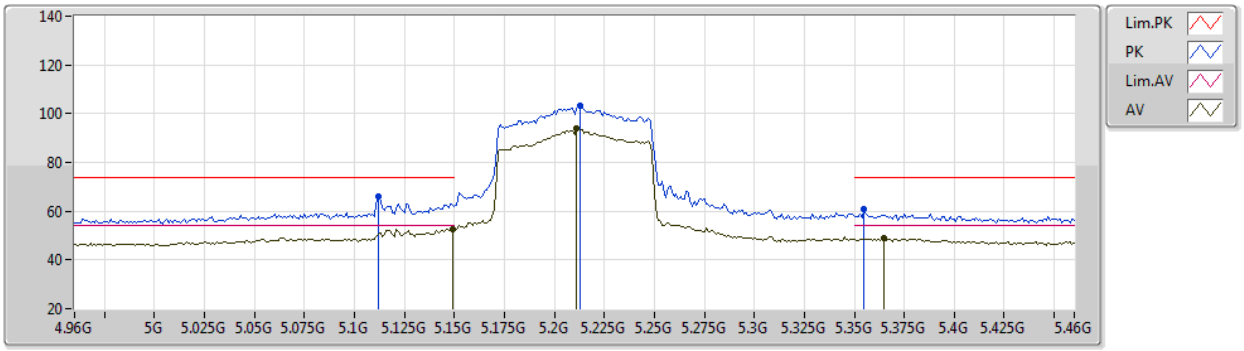


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57336G	44.41	54.00	-9.59	18.78	3	Horizontal	9	1.48	-	25.63	39.93	12.79	33.94
PK	11.59944G	56.87	74.00	-17.13	18.76	3	Horizontal	9	1.48	-	38.11	39.90	12.81	33.95

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/07/2020

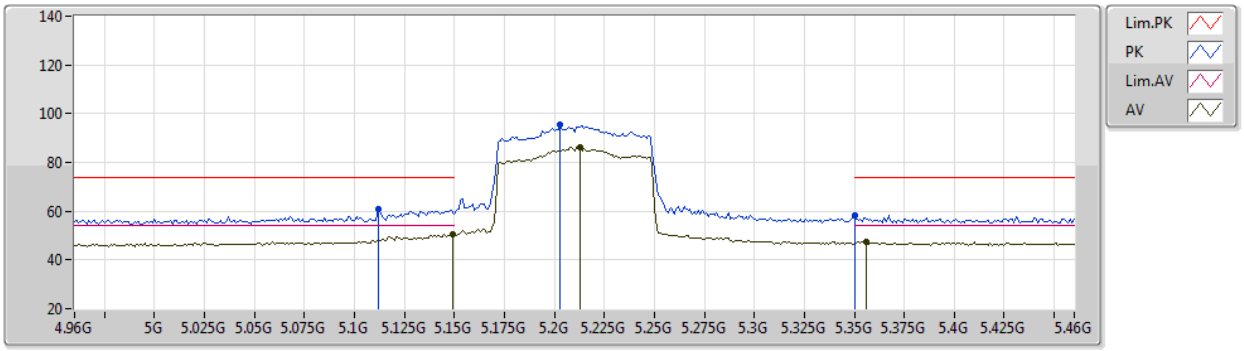


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149G	52.71	54.00	-1.29	6.39	3	Vertical	89	2.83	-	46.32	31.70	8.52	33.83
AV	5.211G	93.74	Inf	-Inf	6.15	3	Vertical	89	2.83	-	87.59	31.43	8.57	33.85
AV	5.365G	49.10	54.00	-4.90	5.80	3	Vertical	89	2.83	-	43.30	31.09	8.60	33.89
PK	5.112G	66.02	74.00	-7.98	6.37	3	Vertical	89	2.83	-	59.65	31.70	8.49	33.82
PK	5.213G	103.21	Inf	-Inf	6.14	3	Vertical	89	2.83	-	97.07	31.42	8.57	33.85
PK	5.355G	60.64	74.00	-13.36	5.74	3	Vertical	89	2.83	-	54.90	31.03	8.60	33.89

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/07/2020

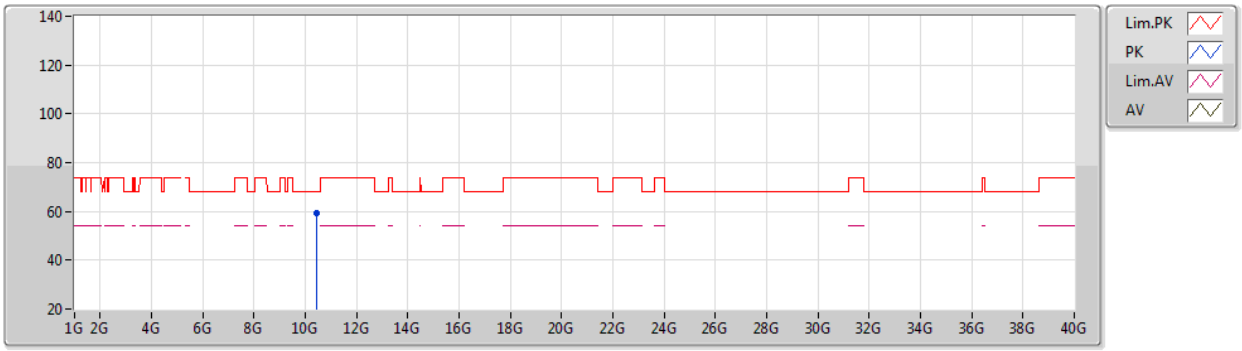


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149G	50.46	54.00	-3.54	6.39	3	Horizontal	150	1.62	-	44.07	31.70	8.52	33.83
AV	5.213G	86.20	Inf	-Inf	6.14	3	Horizontal	150	1.62	-	80.06	31.42	8.57	33.85
AV	5.356G	47.56	54.00	-6.44	5.75	3	Horizontal	150	1.62	-	41.81	31.04	8.60	33.89
PK	5.112G	60.81	74.00	-13.19	6.37	3	Horizontal	150	1.62	-	54.44	31.70	8.49	33.82
PK	5.203G	95.37	Inf	-Inf	6.20	3	Horizontal	150	1.62	-	89.17	31.48	8.57	33.85
PK	5.35G	58.19	74.00	-15.81	5.72	3	Horizontal	150	1.62	-	52.47	31.00	8.60	33.88

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/07/2020

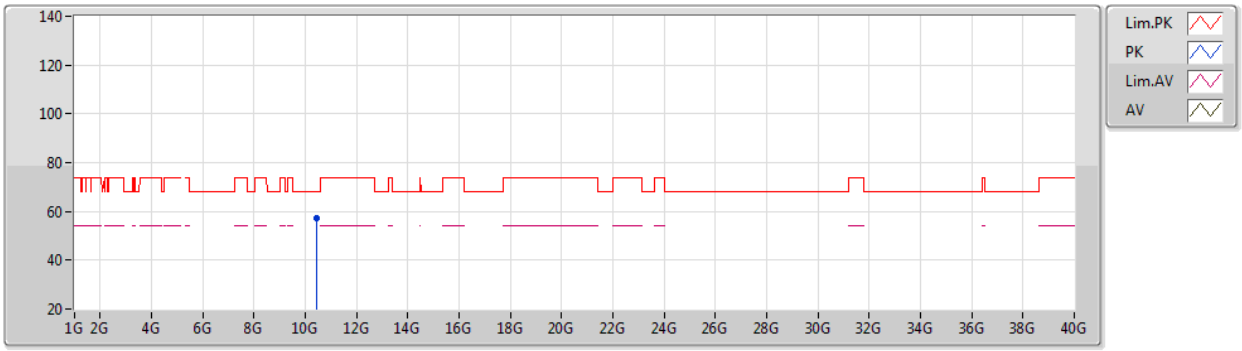


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.41952G	59.49	68.20	-8.71	17.49	3	Vertical	197	1.47	-	42.00	39.54	12.21	34.26

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/07/2020

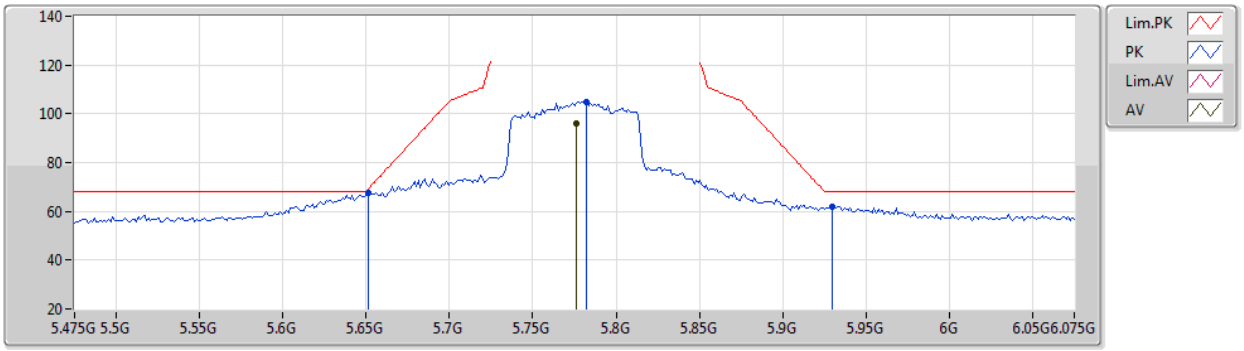


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.4242G	57.12	68.20	-11.08	17.51	3	Horizontal	42	1.74	-	39.61	39.55	12.21	34.25

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

07/07/2020

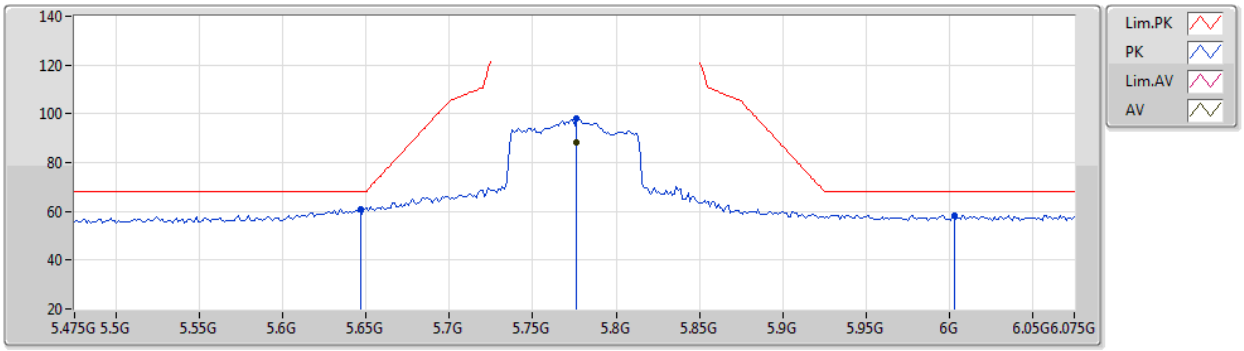


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7762G	96.17	Inf	-Inf	7.09	3	Vertical	84	2.50	-	89.08	32.00	9.06	33.97
PK	5.6514G	67.74	69.24	-1.50	6.70	3	Vertical	84	2.50	-	61.04	31.70	8.95	33.95
PK	5.7822G	104.88	Inf	-Inf	7.09	3	Vertical	84	2.50	-	97.79	32.00	9.06	33.97
PK	5.9298G	61.71	68.20	-6.49	7.45	3	Vertical	84	2.50	-	54.26	32.30	9.14	33.99

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

07/07/2020

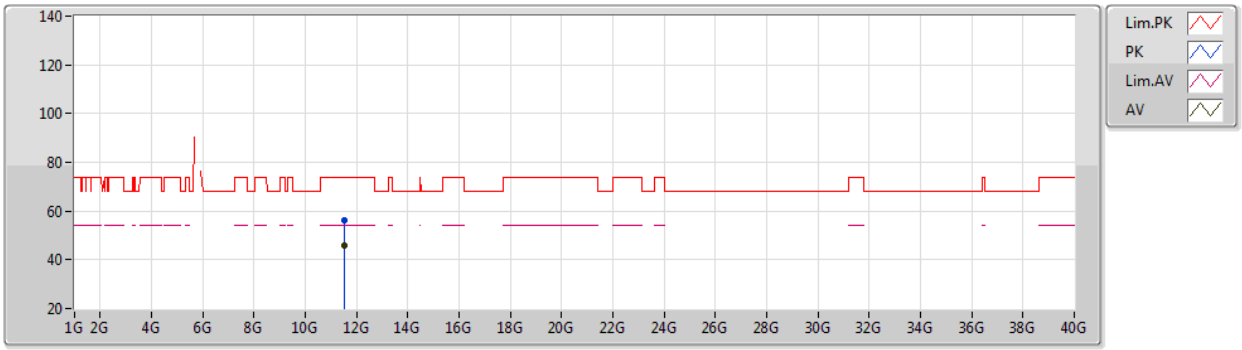


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7762G	88.36	Inf	-Inf	7.09	3	Horizontal	123	2.17	-	81.27	32.00	9.06	33.97
PK	5.6466G	61.08	68.20	-7.12	6.69	3	Horizontal	123	2.17	-	54.39	31.69	8.94	33.94
PK	5.7762G	97.88	Inf	-Inf	7.09	3	Horizontal	123	2.17	-	90.79	32.00	9.06	33.97
PK	6.003G	58.41	68.20	-9.79	7.56	3	Horizontal	123	2.17	-	50.85	32.39	9.17	34.00

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

07/07/2020

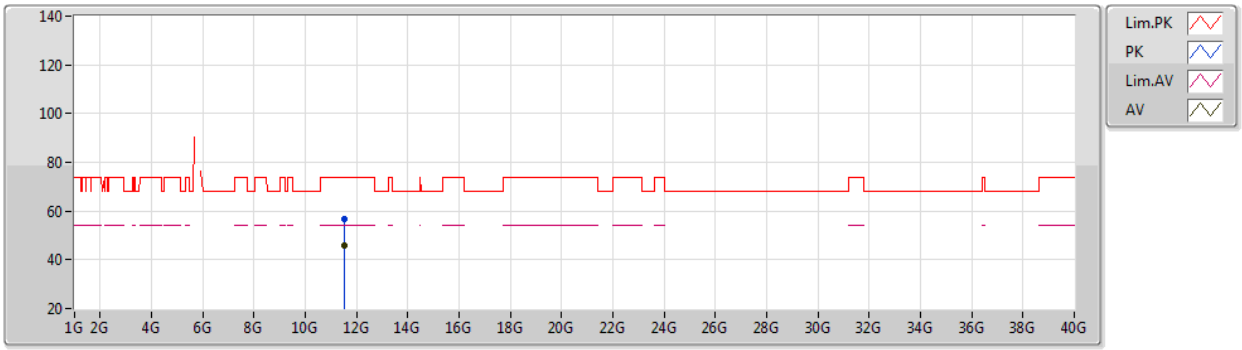


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.54244G	45.81	54.00	-8.19	18.80	3	Vertical	221	1.48	-	27.01	39.96	12.78	33.94
PK	11.54652G	56.35	74.00	-17.65	18.79	3	Vertical	221	1.48	-	37.56	39.95	12.78	33.94

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

07/07/2020



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)
AV	11.54156G	45.67	54.00	-8.33	18.80	3	Horizontal	8	1.49	-	26.87	39.96	12.78	33.94
PK	11.54584G	56.57	74.00	-17.43	18.79	3	Horizontal	8	1.49	-	37.78	39.95	12.78	33.94

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	1.92G	43.74	54.00	-10.26	-0.05	Horizontal
Mode 2	Pass	PK	6.424G	46.60	68.20	-21.60	9.05	Vertical

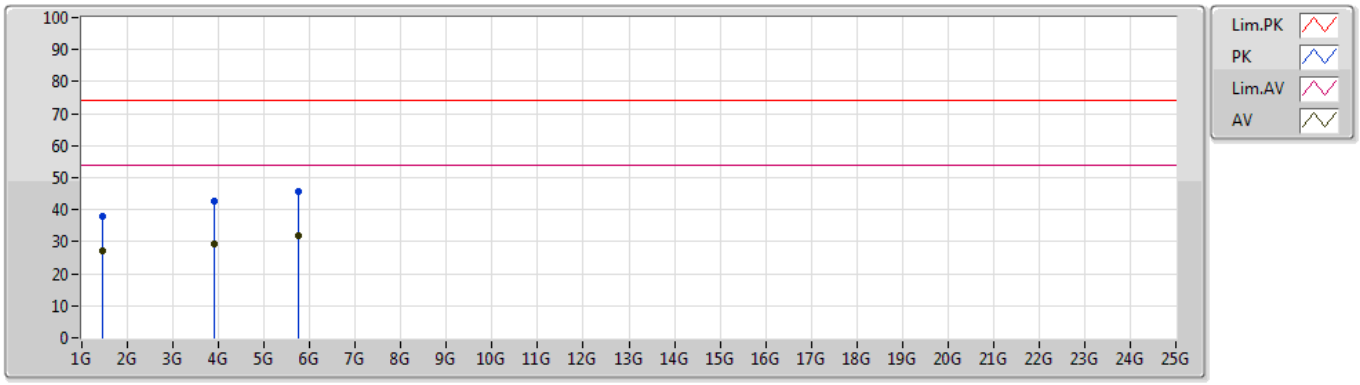
Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition	Comments	Raw (dBuV)	AF (dB)
Mode 1	Pass	AV	1.427G	29.78	54.00	-24.22	Vertical	-	31.40	25.89
Mode 1	Pass	AV	2.268G	30.99	54.00	-23.01	Vertical	-	28.16	28.03
Mode 1	Pass	AV	4.7G	32.89	54.00	-21.11	Vertical	"Worst"	24.40	30.90
Mode 1	Pass	PK	1.427G	38.47	74.00	-35.53	Vertical	-	40.09	25.89
Mode 1	Pass	PK	2.268G	42.67	74.00	-31.33	Vertical	-	39.84	28.03
Mode 1	Pass	PK	4.7G	45.44	74.00	-28.56	Vertical	-	36.95	30.90
Mode 1	Pass	AV	1.92G	43.74	54.00	-10.26	Horizontal	"Worst"	43.79	25.82
Mode 1	Pass	AV	2.556G	41.35	54.00	-12.65	Horizontal	-	38.62	27.42
Mode 1	Pass	AV	4.98G	33.47	54.00	-20.53	Horizontal	-	24.41	31.20
Mode 1	Pass	PK	1.92G	45.76	74.00	-28.24	Horizontal	-	45.81	25.82
Mode 1	Pass	PK	2.556G	50.11	74.00	-23.89	Horizontal	-	47.38	27.42
Mode 1	Pass	PK	4.98G	46.76	74.00	-27.24	Horizontal	-	37.70	31.20
Mode 2	Pass	AV	1.72G	23.92	68.20	-44.28	Vertical	-	27.95	24.98
Mode 2	Pass	AV	2.476G	27.31	68.20	-40.89	Vertical	-	28.21	27.40
Mode 2	Pass	AV	6.424G	42.37	68.20	-25.83	Vertical	-	33.32	33.60
Mode 2	Pass	PK	1.72G	40.24	68.20	-27.96	Vertical	-	44.27	24.98
Mode 2	Pass	PK	2.476G	40.35	68.20	-27.85	Vertical	-	41.25	27.40
Mode 2	Pass	PK	6.424G	46.60	68.20	-21.60	Vertical	"Worst"	37.55	33.60
Mode 2	Pass	AV	1.192G	27.51	54.00	-26.49	Horizontal	-	32.36	25.38
Mode 2	Pass	AV	3.208G	28.12	68.20	-40.08	Horizontal	-	26.61	28.87
Mode 2	Pass	AV	6.376G	33.17	68.20	-35.03	Horizontal	-	24.38	33.36
Mode 2	Pass	PK	1.192G	38.84	74.00	-35.16	Horizontal	-	43.69	25.38
Mode 2	Pass	PK	3.208G	41.34	68.20	-26.86	Horizontal	-	39.83	28.87
Mode 2	Pass	PK	6.376G	46.41	68.20	-21.79	Horizontal	"Worst"	37.62	33.36

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

Mode 1

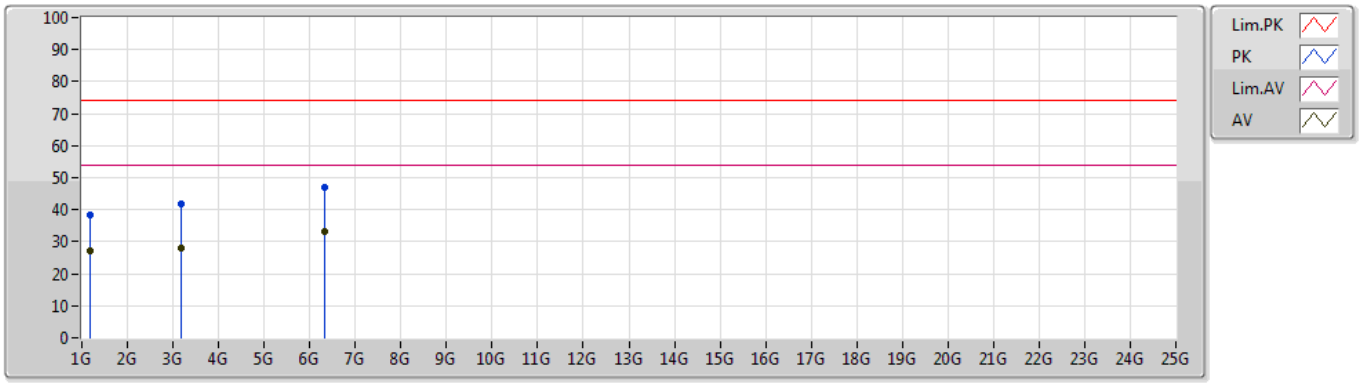
16/07/2020



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)
AV	1.456G	27.08	54.00	-26.92	-3.73	3	Vertical	360	1.50	-	30.81	25.75	4.78	34.26
AV	3.904G	29.38	54.00	-24.62	3.11	3	Vertical	360	1.50	-	26.27	29.60	7.52	34.01
AV	5.74G	32.09	54.00	-21.91	7.03	3	Vertical	360	1.50	"Worst"	25.06	31.96	9.03	33.96
PK	1.456G	38.03	74.00	-35.97	-3.73	3	Vertical	360	1.50	-	41.76	25.75	4.78	34.26
PK	3.904G	42.57	74.00	-31.43	3.11	3	Vertical	360	1.50	-	39.46	29.60	7.52	34.01
PK	5.74G	45.56	74.00	-28.44	7.03	3	Vertical	360	1.50	-	38.53	31.96	9.03	33.96

Mode 1

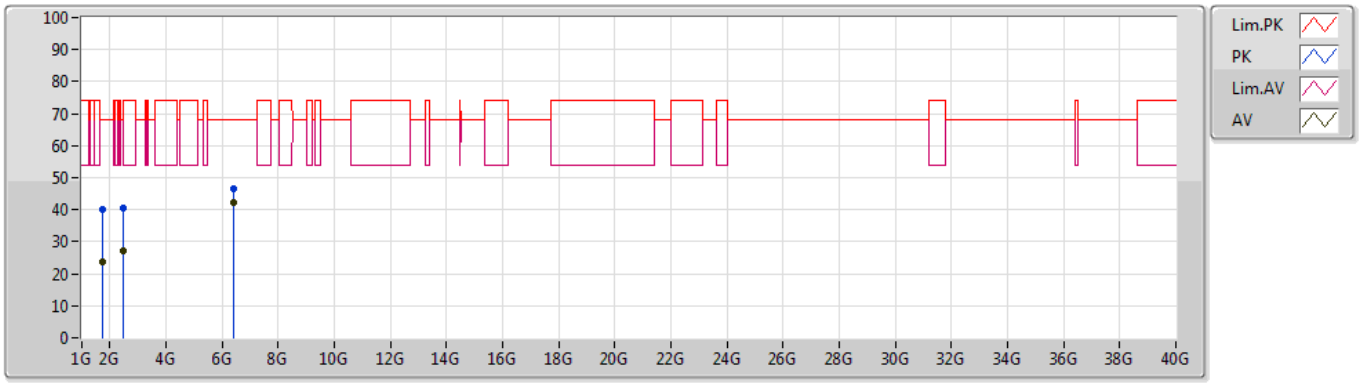
16/07/2020



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)
AV	1.192G	27.03	54.00	-26.97	-4.85	3	Horizontal	0	1.50	-	31.88	25.38	4.35	34.58
AV	3.172G	27.83	54.00	-26.17	1.50	3	Horizontal	0	1.50	-	26.33	28.90	6.75	34.15
AV	6.328G	33.13	54.00	-20.87	8.56	3	Horizontal	0	1.50	"Worst"	24.57	33.16	9.41	34.01
PK	1.192G	38.24	74.00	-35.76	-4.85	3	Horizontal	0	1.50	-	43.09	25.38	4.35	34.58
PK	3.172G	41.77	74.00	-32.23	1.50	3	Horizontal	0	1.50	-	40.27	28.90	6.75	34.15
PK	6.328G	46.86	74.00	-27.14	8.56	3	Horizontal	0	1.50	-	38.30	33.16	9.41	34.01

Mode 2

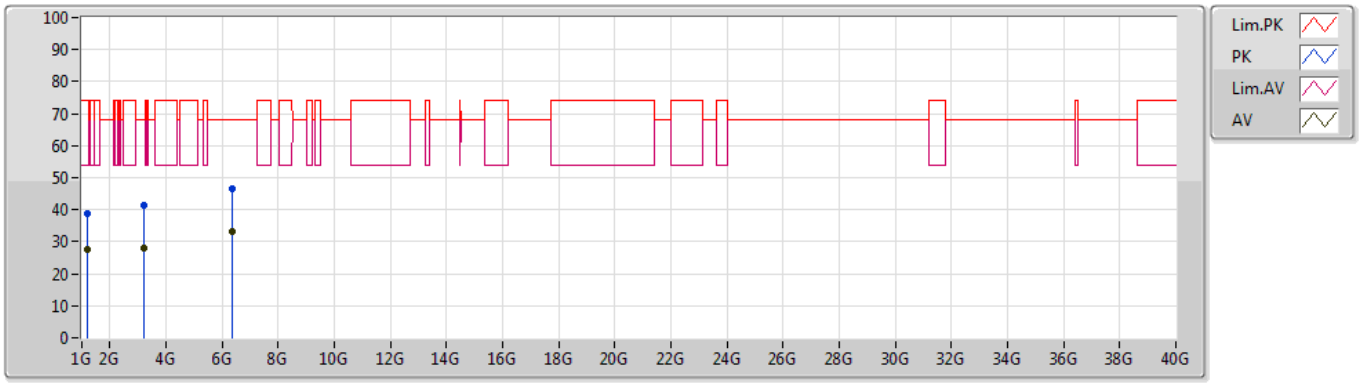
16/07/2020



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)
AV	1.72G	23.92	68.20	-44.28	-4.03	3	Vertical	360	1.50	-	27.95	24.98	5.18	34.19
AV	2.476G	27.31	68.20	-40.89	-0.90	3	Vertical	360	1.50	-	28.21	27.40	6.05	34.35
AV	6.424G	42.37	68.20	-25.83	9.05	3	Vertical	360	1.50	-	33.32	33.60	9.46	34.01
PK	1.72G	40.24	68.20	-27.96	-4.03	3	Vertical	360	1.50	-	44.27	24.98	5.18	34.19
PK	2.476G	40.35	68.20	-27.85	-0.90	3	Vertical	360	1.50	-	41.25	27.40	6.05	34.35
PK	6.424G	46.60	68.20	-21.60	9.05	3	Vertical	360	1.50	"Worst"	37.55	33.60	9.46	34.01

Mode 2

16/07/2020



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)
AV	1.192G	27.51	54.00	-26.49	-4.85	3	Horizontal	0	1.50	-	32.36	25.38	4.35	34.58
AV	3.208G	28.12	68.20	-40.08	1.51	3	Horizontal	0	1.50	-	26.61	28.87	6.79	34.15
AV	6.376G	33.17	68.20	-35.03	8.79	3	Horizontal	0	1.50	-	24.38	33.36	9.44	34.01
PK	1.192G	38.84	74.00	-35.16	-4.85	3	Horizontal	0	1.50	-	43.69	25.38	4.35	34.58
PK	3.208G	41.34	68.20	-26.86	1.51	3	Horizontal	0	1.50	-	39.83	28.87	6.79	34.15
PK	6.376G	46.41	68.20	-21.79	8.79	3	Horizontal	0	1.50	"Worst"	37.62	33.36	9.44	34.01