

FCC Test Report

FCC ID : RYK-WPEA352ACNRB
Equipment : 802.11ac/b/g/n Mini PCIe Module
Brand Name : Sparklan
Model Name : WPEA-352ACNRB
WPEA-352ACNRBI
Applicant/
Manufacturer : SparkLAN Communications, Inc.
8F., No. 257, Sec. 2, Tiding Blvd., Neihu District,
Taipei City 11493, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Dec. 10, 2018, and testing was started from Jan. 02, 2019 and completed on Jan. 24, 2019. 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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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.3
FCC ID: RYK-WPEA352ACNRB

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: Jackson Tsai

Report Producer: Jenny Yang

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]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	3TX
5.25-5.35GHz	802.11a	20	3TX
5.47-5.725GHz	802.11a	20	3TX
5.725-5.85GHz	802.11a	20	3TX
5.15-5.25GHz	802.11ac VHT20	20	3TX
5.25-5.35GHz	802.11ac VHT20	20	3TX
5.47-5.725GHz	802.11ac VHT20	20	3TX
5.725-5.85GHz	802.11ac VHT20	20	3TX
5.15-5.25GHz	802.11ac VHT40	40	3TX
5.25-5.35GHz	802.11ac VHT40	40	3TX
5.47-5.725GHz	802.11ac VHT40	40	3TX
5.725-5.85GHz	802.11ac VHT40	40	3TX
5.15-5.25GHz	802.11ac VHT80	80	3TX
5.25-5.35GHz	802.11ac VHT80	80	3TX
5.47-5.725GHz	802.11ac VHT80	80	3TX
5.725-5.85GHz	802.11ac VHT80	80	3TX

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	Antenna Type	Connector
1	SparkLAN	AD-103AG	Dipole	I-Pex
2	SparkLAN	AD-301N	Dipole	I-Pex
3	SparkLAN	AD-302N	Dipole	I-Pex
4	SparkLAN	AD-303N	Dipole	I-Pex
5	SparkLAN	AD-305N	Dipole	I-Pex
6	SparkLAN	AD-300N	Dipole	I-Pex

Ant.	Gain (dBi)				
	2.4G	5G			
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
1	2.02	2.03			
2	4.4	5.2		5.8	
3	3.14	2.87			
4	3.14	3.45			
5	5	5.53			
6	3	5			

Note 1: EUT can match with above antennas for using. The higher gain (Ant. 2/5) was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (3TX/3RX)

Ant. 5 could transmit/receive simultaneously.

For 5 GHz function:

For IEEE 802.11a/n/ac mode (3TX/3RX)

U-NII-1/ U-NII-2A

Ant. 5 could transmit/receive simultaneously.

U-NII-2C/ U-NII-3

Ant. 2 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Host System		
EUT Function	☐ Outdoor	☐ Indoor	
	☐ Fixed P2P	☒ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
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) $\geq 1/T$
802.11a	0.998	0.009	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	0.997	0.013	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.997	0.013	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	0.998	0.009	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.1.5 Table for Multiple Listing

Model Name	Description
WPEA-352ACNRB	Differences between all models are for different marketing requirement.
WPEA-352ACNRBI	

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
- ♦ KDB 662911 D01 v02r01

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.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel	22.8°C / 56%	02/Jan/2019
RF Conducted	TH01-HY	Gary	23.3°C / 63%	15/Jan/2019
Radiated	03CH02-HY	Kevin	19°C / 59.4%	24/Jan/2019

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.3V

2.2 Test Channel Mode

Test Software Version	ART-GUI 2.3
-----------------------	-------------

Mode	Power Setting
802.11a_Nss1,(6Mbps)_3TX	-
5180MHz	8.5
5200MHz	8
5240MHz	7.5
5260MHz	14
5300MHz	14
5320MHz	14.5
5500MHz	13.5
5580MHz	15
5700MHz	15
5745MHz	31.5
5785MHz	31.5
5825MHz	31.5
802.11ac VHT20_Nss1,(MCS0)_3TX	-
5180MHz	8.5
5200MHz	8
5240MHz	8
5260MHz	14
5300MHz	14.5
5320MHz	14.5
5500MHz	14.5
5580MHz	15
5700MHz	15.5



Mode	Power Setting
5745MHz	31.5
5785MHz	31.5
5825MHz	31.5
802.11ac VHT40_Nss1,(MCS0)_3TX	-
5190MHz	11
5230MHz	11
5270MHz	19
5310MHz	14.5
5510MHz	14
5550MHz	19
5670MHz	19.5
5755MHz	29.5
5795MHz	31.5
802.11ac VHT80_Nss1,(MCS0)_3TX	-
5210MHz	11
5290MHz	12.5
5530MHz	14
5610MHz	19
5775MHz	22.5

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	Test fixture 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	Test fixture Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

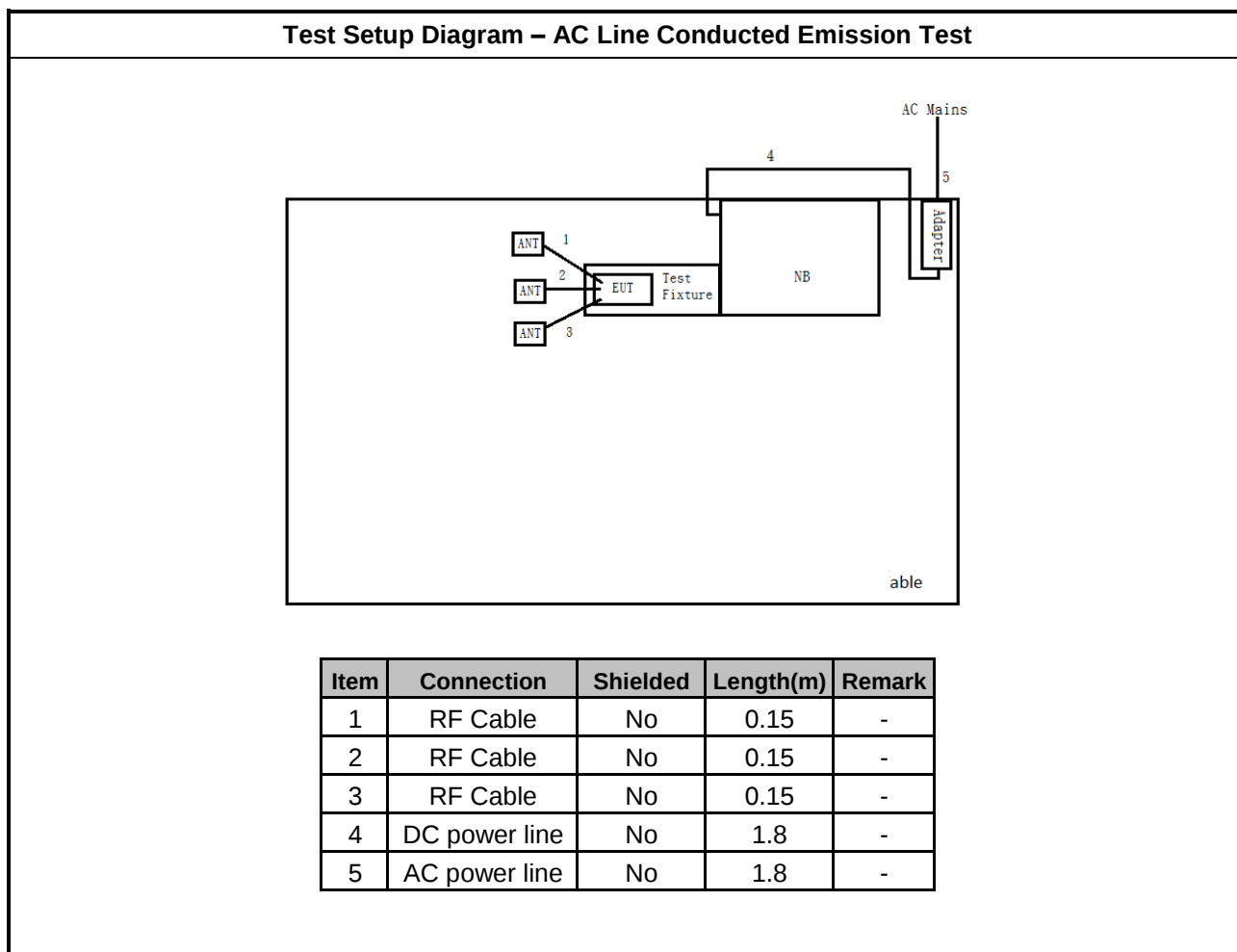
2.4 Support Equipment

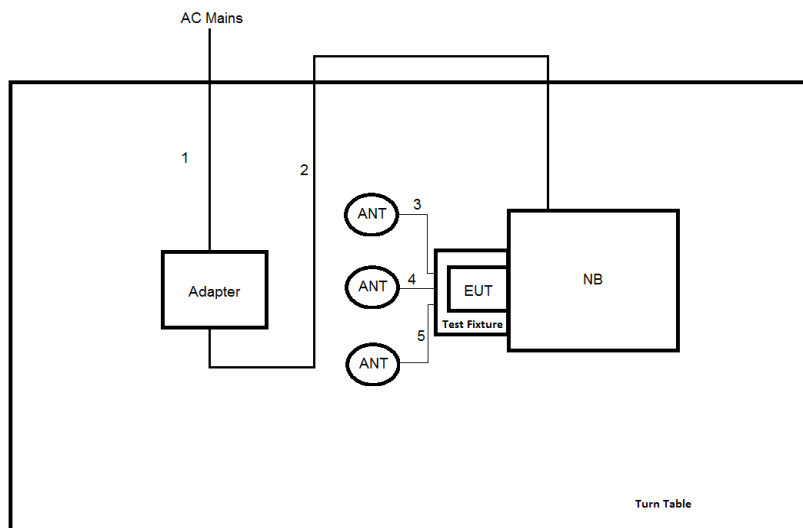
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	AA90PM111	DoC
3	Test fixture	-	-	-

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	Test fixture	-	-	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	-
2	Adapter	DELL	LA90PS0-00	-
3	Test Fixture	-	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	2.0	-
2	DC Power line	No	2.0	-
3	RF Cable	No	0.15	-
4	RF Cable	No	0.15	-
5	RF 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.

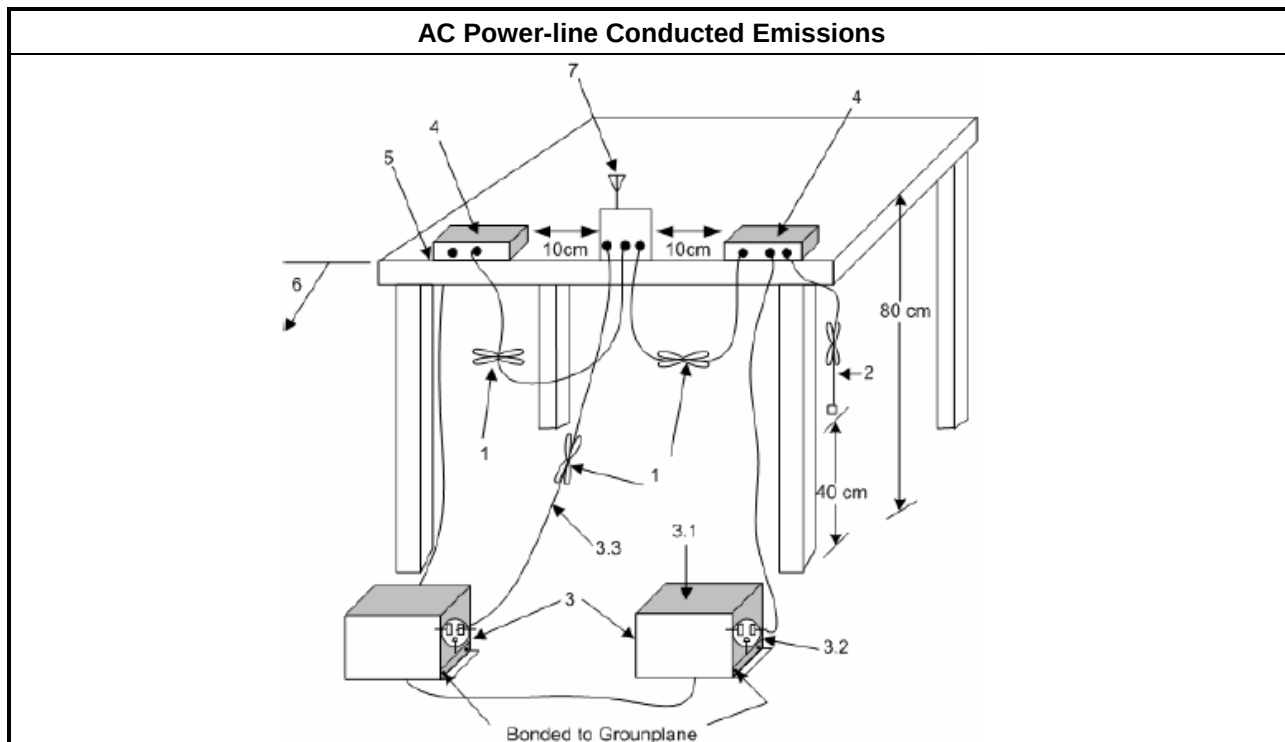
3.1.2 Measuring Instruments

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



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 $\geq$ 500kHz.

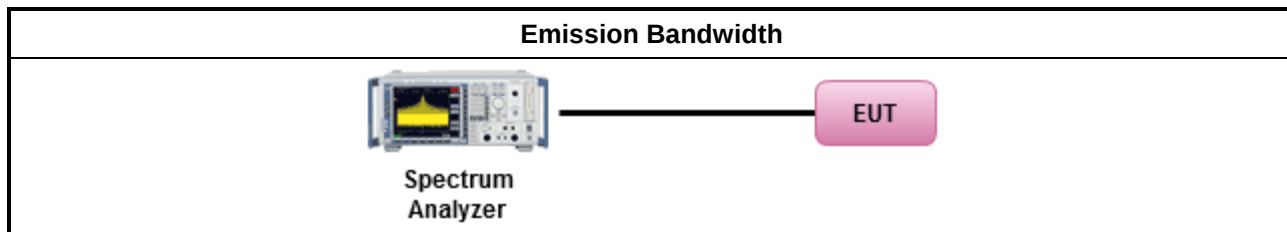
3.2.2 Measuring Instruments

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



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.	

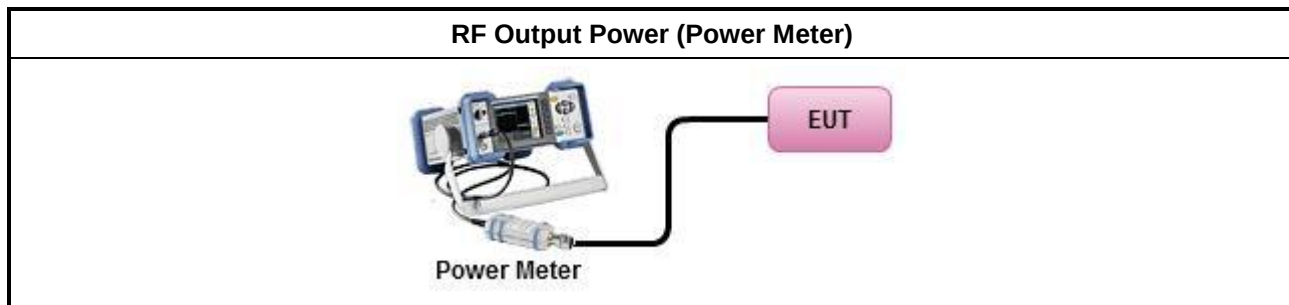
3.3.2 Measuring Instruments

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 $\geq 98\%$
☐	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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup



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 the 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.	

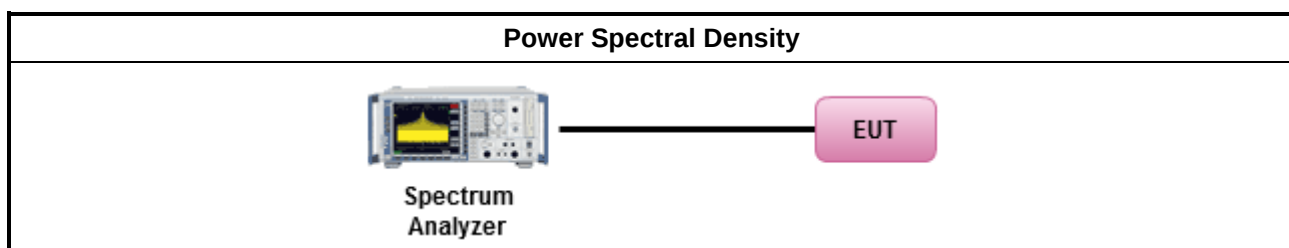
3.4.2 Measuring Instruments

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: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



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).	

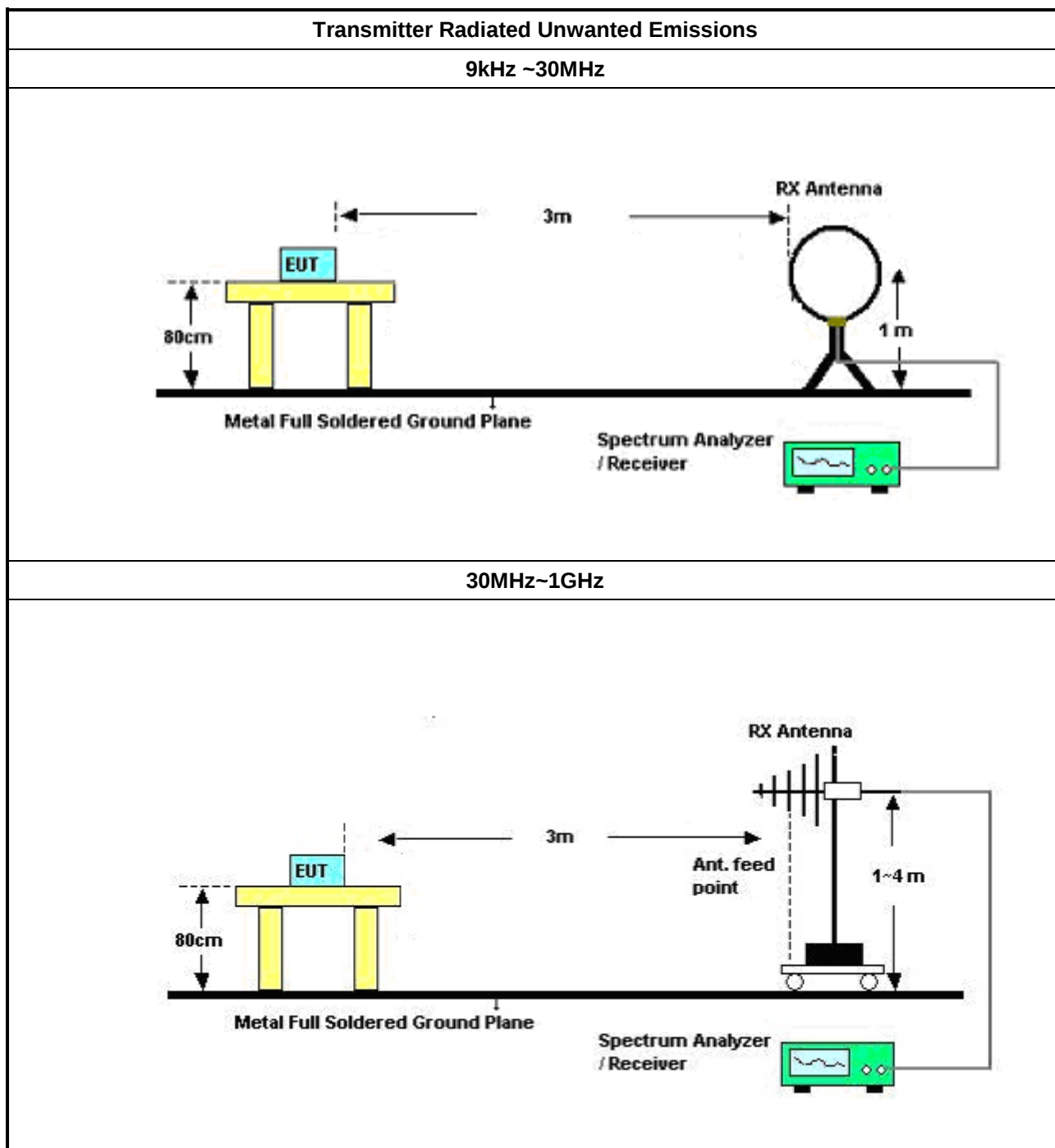
3.5.2 Measuring Instruments

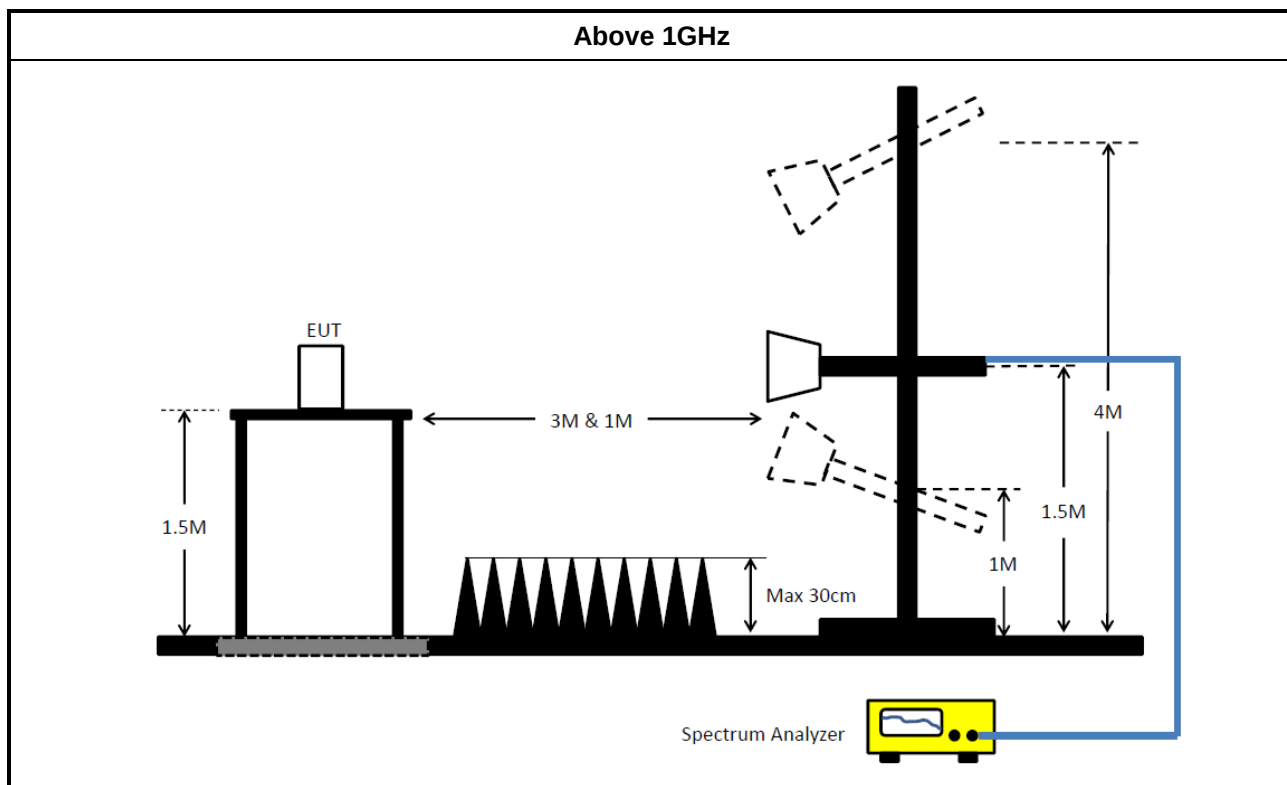
Refer a test equipment and calibration data table in this test report.

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 $\geq$ 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.	

3.5.4 Test Setup





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

3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Puls e Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	05/Feb/2018	04/Feb/2019
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	1 ~ 18GHz	17/Jan/2018	16/Jan/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30 ~ 1000MHz	17/Jan/2018	16/Jan/2019
CABLE 0.5m	HUBER	MY37963/4	RF Cable - 22	1 ~ 18GHz	17/Jan/2018	16/Jan/2019

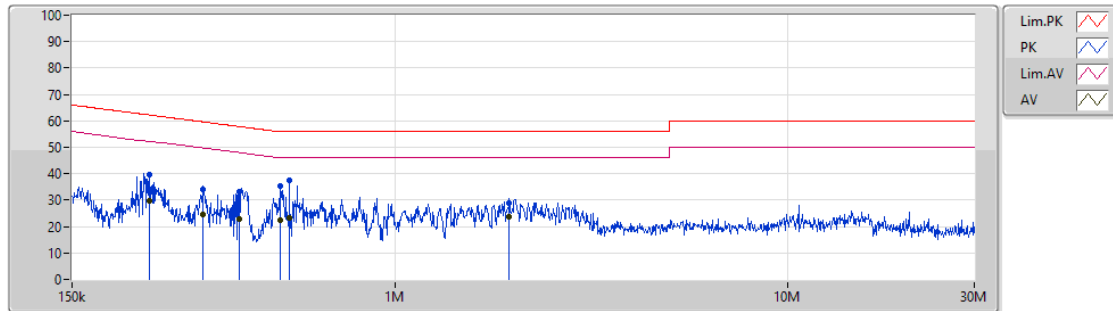
Instrument for Radiated Test

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	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	17/Jan/2019	16/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	17/Jan/2019	16/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Test fixture Mode		

02/01/2019

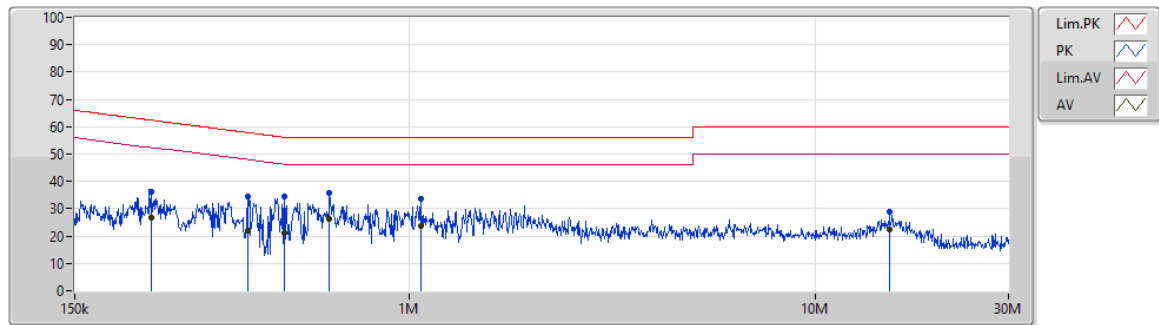


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	236.497k	39.62	62.21	-22.59	19.47	Neutral	-	20.15	9.59	0.01	9.87			
AV	236.497k	29.87	52.21	-22.34	19.47	Neutral	-	10.40	9.59	0.01	9.87			
QP	323.897k	34.08	59.61	-25.53	19.48	Neutral	-	14.60	9.59	0.01	9.88			
AV	323.897k	24.72	49.61	-24.89	19.48	Neutral	-	5.24	9.59	0.01	9.88			
QP	401.72k	33.20	57.82	-24.62	19.48	Neutral	-	13.72	9.59	0.01	9.88			
AV	401.72k	22.95	47.82	-24.87	19.48	Neutral	-	3.47	9.59	0.01	9.88			
QP	508.871k	35.30	56.00	-20.70	19.48	Neutral	-	15.82	9.59	0.01	9.88			
AV	508.871k	22.41	46.00	-23.59	19.48	Neutral	-	2.93	9.59	0.01	9.88			
QP	537.313k	37.48	56.00	-18.52	19.48	Neutral	"Worst"	18.00	9.59	0.01	9.88			
AV	537.313k	23.12	46.00	-22.88	19.48	Neutral	-	3.64	9.59	0.01	9.88			
QP	1.954M	28.95	56.00	-27.05	19.53	Neutral	-	9.42	9.61	0.03	9.89			
AV	1.954M	23.67	46.00	-22.33	19.53	Neutral	-	4.14	9.61	0.03	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Test fixture Mode		

02/01/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	231.113k	36.21	62.41	-26.20	19.48	Line	-	16.73	9.60	0.01	9.87			
AV	231.113k	26.91	52.41	-25.50	19.48	Line	-	7.43	9.60	0.01	9.87			
QP	401.651k	34.67	57.82	-23.15	19.48	Line	-	15.19	9.59	0.01	9.88			
AV	401.651k	21.93	47.82	-25.89	19.48	Line	-	2.45	9.59	0.01	9.88			
QP	492.118k	34.67	56.13	-21.46	19.48	Line	-	15.19	9.59	0.01	9.88			
AV	492.118k	21.15	46.13	-24.98	19.48	Line	-	1.67	9.59	0.01	9.88			
QP	633.635k	35.72	56.00	-20.28	19.48	Line	-	16.24	9.59	0.01	9.88			
AV	633.635k	26.21	46.00	-19.79	19.48	Line	"Worst"	6.73	9.59	0.01	9.88			
QP	1.072M	33.69	56.00	-22.31	19.50	Line	-	14.19	9.60	0.02	9.88			
AV	1.072M	23.84	46.00	-22.16	19.50	Line	-	4.34	9.60	0.02	9.88			
QP	15.283M	28.79	60.00	-31.21	19.64	Line	-	9.15	9.65	0.09	9.90			
AV	15.283M	22.27	50.00	-27.73	19.64	Line	-	2.63	9.65	0.09	9.90			

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)_3TX	22.975M	16.542M	16M5D1D	22.475M	16.517M
802.11ac VHT20_Nss1,(MCS0)_3TX	23.9M	17.741M	17M7D1D	22.9M	17.666M
802.11ac VHT40_Nss1,(MCS0)_3TX	45.95M	36.332M	36M3D1D	44.55M	36.232M
802.11ac VHT80_Nss1,(MCS0)_3TX	91M	75.862M	75M9D1D	88.8M	75.762M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	24.3M	16.592M	16M6D1D	22.575M	16.492M
802.11ac VHT20_Nss1,(MCS0)_3TX	25.375M	17.766M	17M8D1D	23.7M	17.691M
802.11ac VHT40_Nss1,(MCS0)_3TX	60.05M	36.432M	36M4D1D	45.4M	36.232M
802.11ac VHT80_Nss1,(MCS0)_3TX	90.2M	76.062M	76M1D1D	89.2M	75.862M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	24.45M	16.567M	16M6D1D	22.125M	16.492M
802.11ac VHT20_Nss1,(MCS0)_3TX	24.625M	17.716M	17M7D1D	23M	17.691M
802.11ac VHT40_Nss1,(MCS0)_3TX	58.55M	36.482M	36M5D1D	43.95M	36.282M
802.11ac VHT80_Nss1,(MCS0)_3TX	110.7M	76.062M	76M1D1D	85.9M	75.662M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	16.55M	33.183M	33M2D1D	16.3M	29.035M
802.11ac VHT20_Nss1,(MCS0)_3TX	17.775M	34.658M	34M7D1D	17.55M	30.26M
802.11ac VHT40_Nss1,(MCS0)_3TX	36.45M	67.816M	67M8D1D	36.3M	53.173M
802.11ac VHT80_Nss1,(MCS0)_3TX	75.6M	75.962M	76M0D1D	71.9M	75.762M

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

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

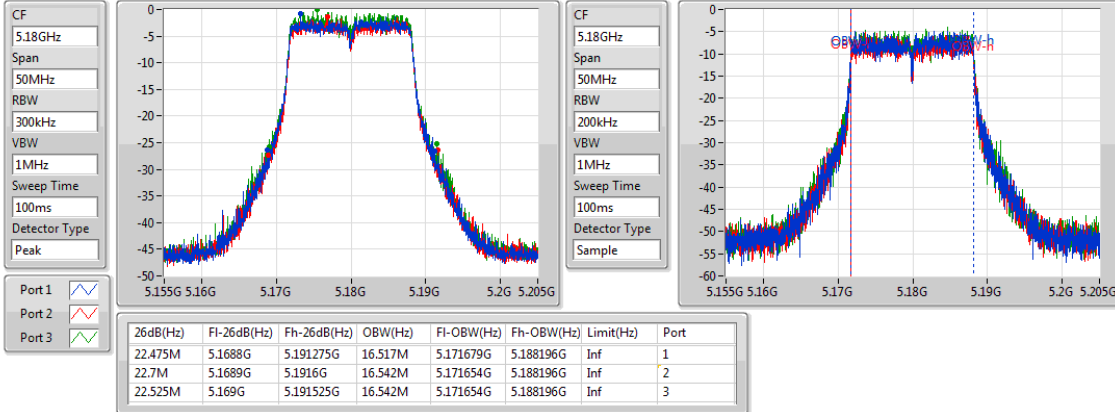
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.475M	16.517M	22.7M	16.542M	22.525M	16.542M
5200MHz	Pass	Inf	22.475M	16.517M	22.9M	16.517M	22.975M	16.542M
5240MHz	Pass	Inf	22.875M	16.517M	22.9M	16.517M	22.7M	16.542M
5260MHz	Pass	Inf	24.3M	16.567M	23.1M	16.517M	23.525M	16.542M
5300MHz	Pass	Inf	23.15M	16.592M	22.575M	16.517M	24M	16.517M
5320MHz	Pass	Inf	23.125M	16.542M	23M	16.567M	23.2M	16.492M
5500MHz	Pass	Inf	23.175M	16.517M	23.8M	16.492M	23.8M	16.517M
5580MHz	Pass	Inf	23.175M	16.567M	22.375M	16.517M	22.125M	16.542M
5700MHz	Pass	Inf	24.45M	16.542M	23.525M	16.492M	22.675M	16.517M
5745MHz	Pass	500k	16.55M	29.035M	16.35M	30.085M	16.325M	33.183M
5785MHz	Pass	500k	16.35M	29.885M	16.325M	30.435M	16.45M	32.984M
5825MHz	Pass	500k	16.3M	30.485M	16.55M	30.26M	16.375M	32.809M
802.11ac_VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.55M	17.666M	23.375M	17.716M	23.45M	17.716M
5200MHz	Pass	Inf	23.2M	17.741M	23.425M	17.691M	23.525M	17.716M
5240MHz	Pass	Inf	22.9M	17.741M	23.9M	17.716M	23.225M	17.716M
5260MHz	Pass	Inf	23.85M	17.741M	24.2M	17.716M	23.975M	17.691M
5300MHz	Pass	Inf	24.55M	17.766M	24.025M	17.716M	25.375M	17.716M
5320MHz	Pass	Inf	23.7M	17.766M	23.975M	17.741M	24.3M	17.691M
5500MHz	Pass	Inf	23.725M	17.716M	23.95M	17.716M	24.625M	17.691M
5580MHz	Pass	Inf	23.75M	17.716M	23.65M	17.716M	23M	17.691M
5700MHz	Pass	Inf	23.875M	17.716M	24.15M	17.691M	23.925M	17.691M
5745MHz	Pass	500k	17.575M	30.285M	17.6M	30.26M	17.625M	32.159M
5785MHz	Pass	500k	17.575M	30.76M	17.6M	31.809M	17.6M	34.658M
5825MHz	Pass	500k	17.55M	31.084M	17.775M	31.609M	17.725M	34.358M
802.11ac_VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	45.5M	36.332M	44.6M	36.232M	45.85M	36.232M
5230MHz	Pass	Inf	45.95M	36.282M	45.4M	36.282M	44.55M	36.282M
5270MHz	Pass	Inf	57M	36.382M	54.85M	36.432M	60.05M	36.432M
5310MHz	Pass	Inf	47.1M	36.282M	45.4M	36.332M	46.05M	36.232M
5510MHz	Pass	Inf	45.4M	36.282M	43.95M	36.282M	46.65M	36.332M
5550MHz	Pass	Inf	48.25M	36.282M	48.3M	36.282M	55.8M	36.382M
5670MHz	Pass	Inf	48.85M	36.332M	50.95M	36.282M	58.55M	36.482M
5755MHz	Pass	500k	36.3M	54.523M	36.3M	53.173M	36.3M	61.369M
5795MHz	Pass	500k	36.45M	60.92M	36.35M	62.219M	36.35M	67.816M
802.11ac_VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	88.8M	75.862M	91M	75.862M	90.5M	75.762M
5290MHz	Pass	Inf	90.2M	75.862M	89.2M	76.062M	89.2M	75.962M
5530MHz	Pass	Inf	86.5M	75.762M	88.9M	75.662M	85.9M	75.862M
5610MHz	Pass	Inf	97.8M	75.862M	94.2M	75.862M	110.7M	76.062M
5775MHz	Pass	500k	73.6M	75.962M	71.9M	75.762M	75.6M	75.962M

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

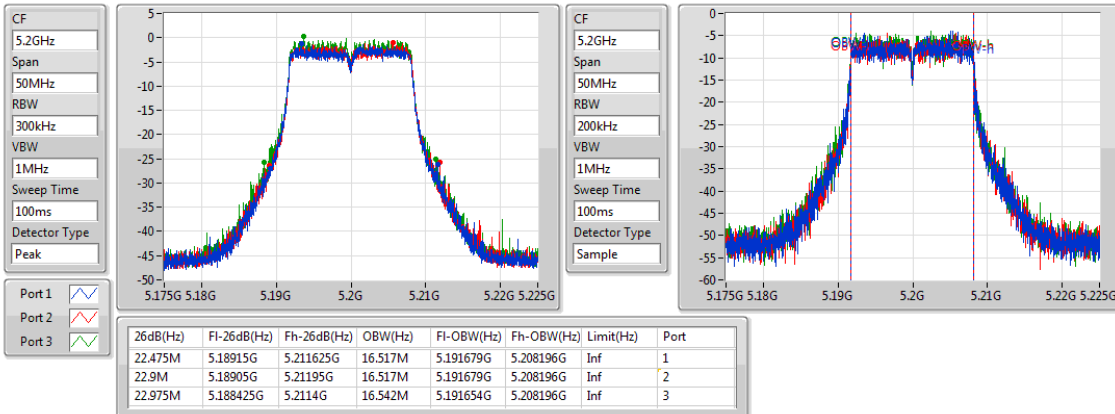
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_3TX
EBW
5180MHz

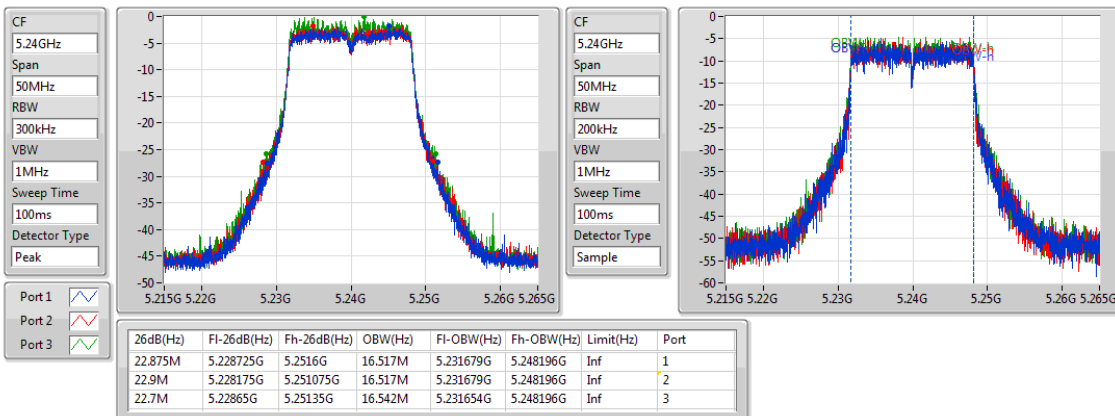
15/01/2019


802.11a_Nss1,(6Mbps)_3TX
EBW
5200MHz

15/01/2019

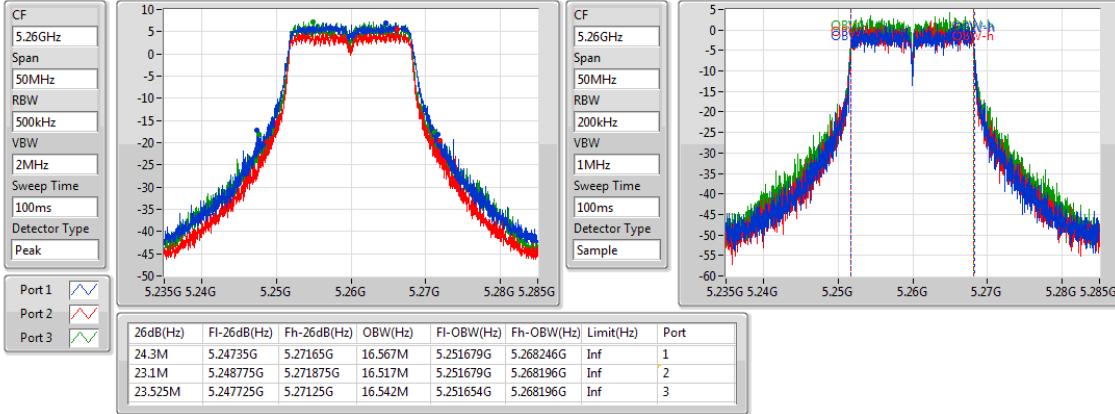

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EBW
5240MHz

15/01/2019

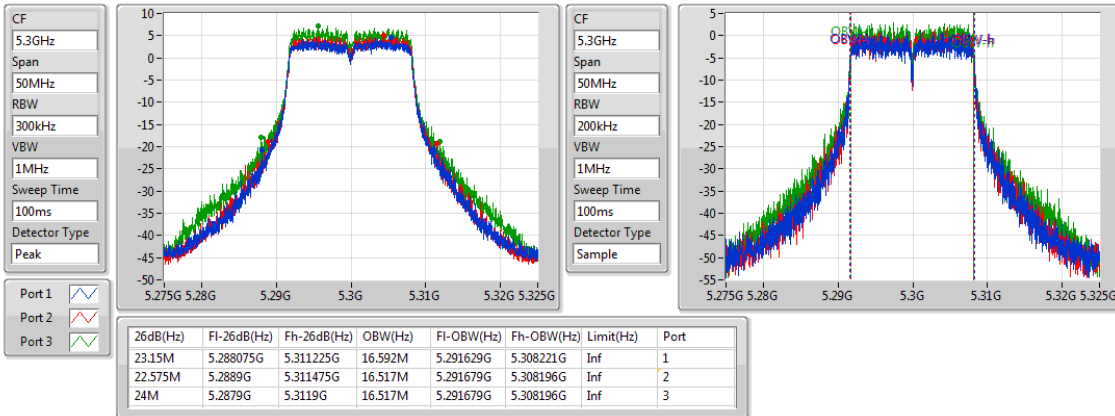


802.11a_Nss1,(6Mbps)_3TX
EBW
5260MHz

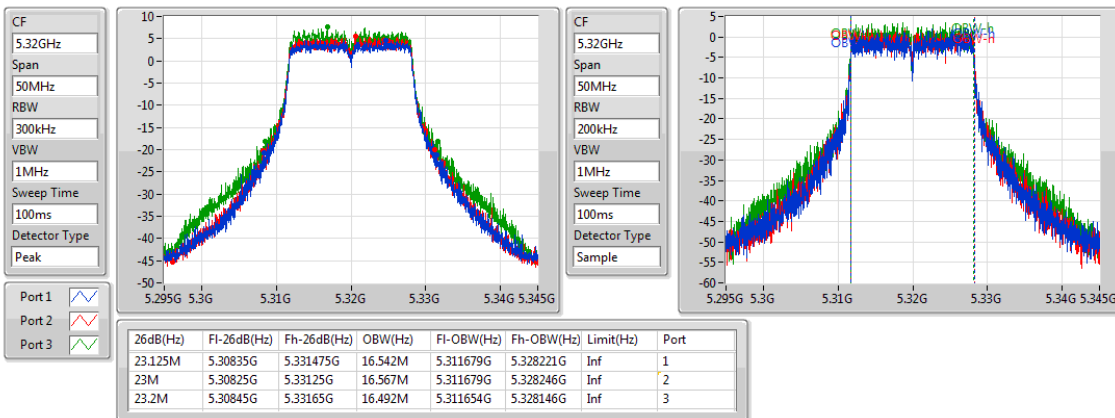
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802.11a_Nss1,(6Mbps)_3TX
EBW
5300MHz

15/01/2019

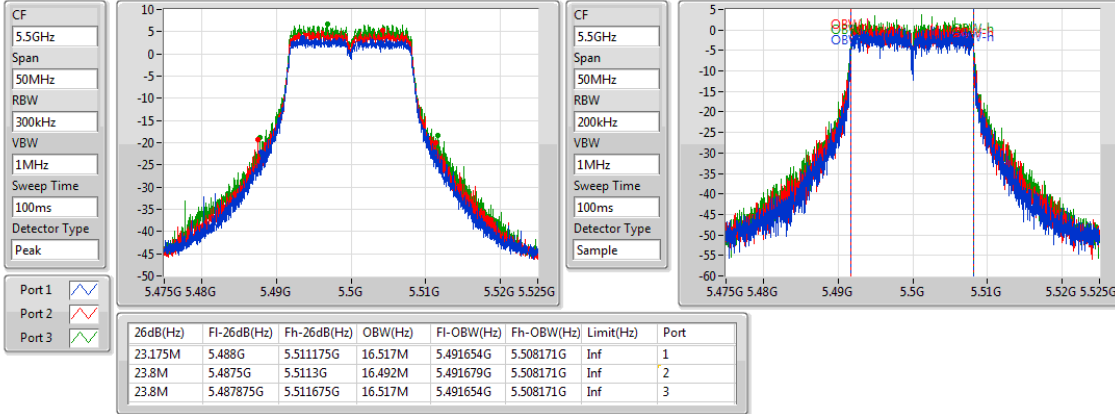

802.11a_Nss1,(6Mbps)_3TX
EBW
5320MHz

15/01/2019

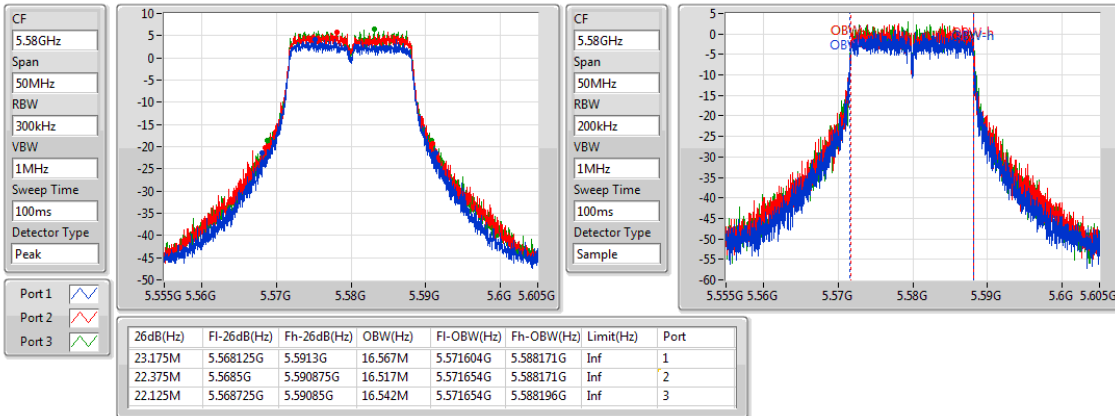


802.11a_Nss1,(6Mbps)_3TX
EBW
5500MHz

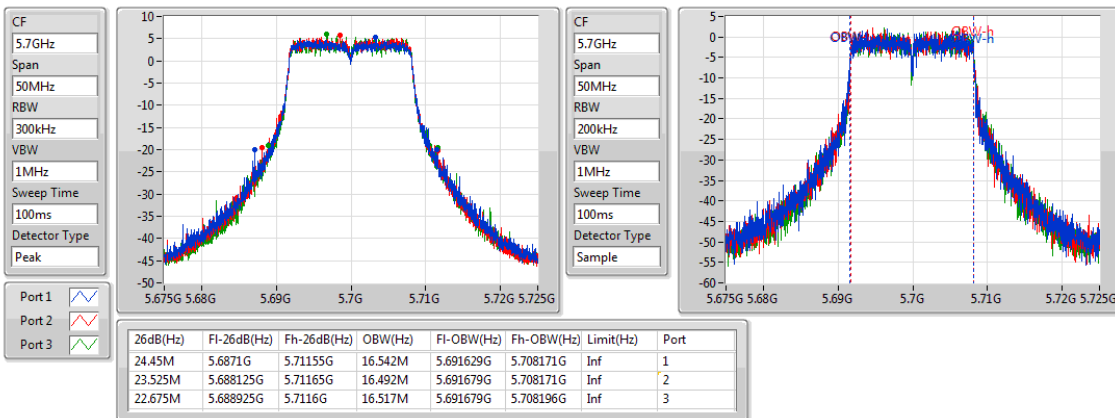
15/01/2019


802.11a_Nss1,(6Mbps)_3TX
EBW
5580MHz

15/01/2019

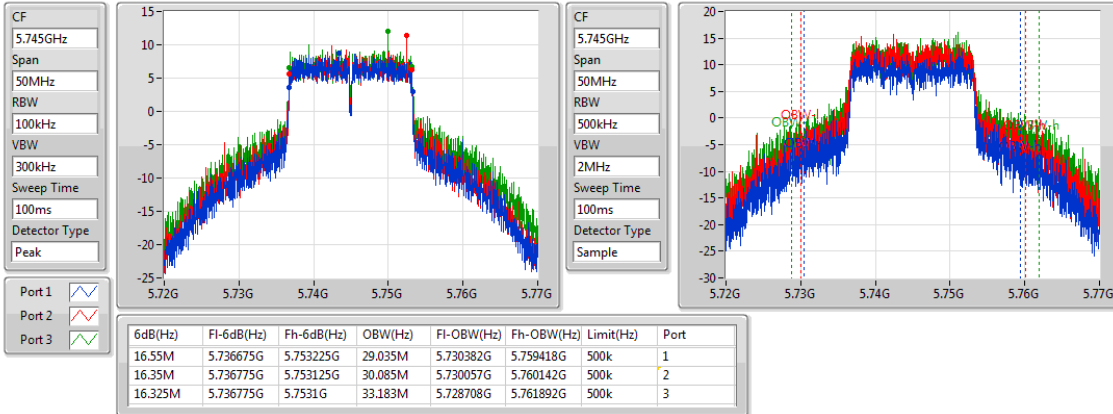

802.11a_Nss1,(6Mbps)_3TX
EBW
5700MHz

15/01/2019

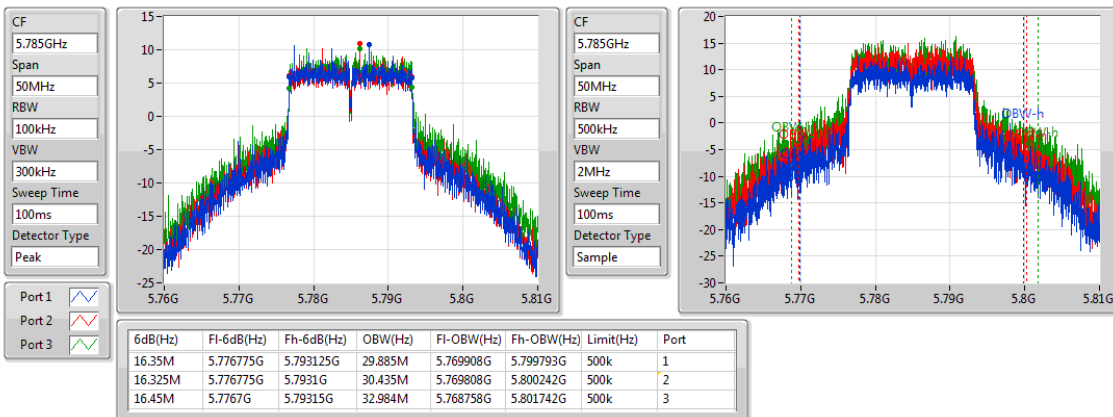


802.11a_Nss1,(6Mbps)_3TX
EBW
5745MHz

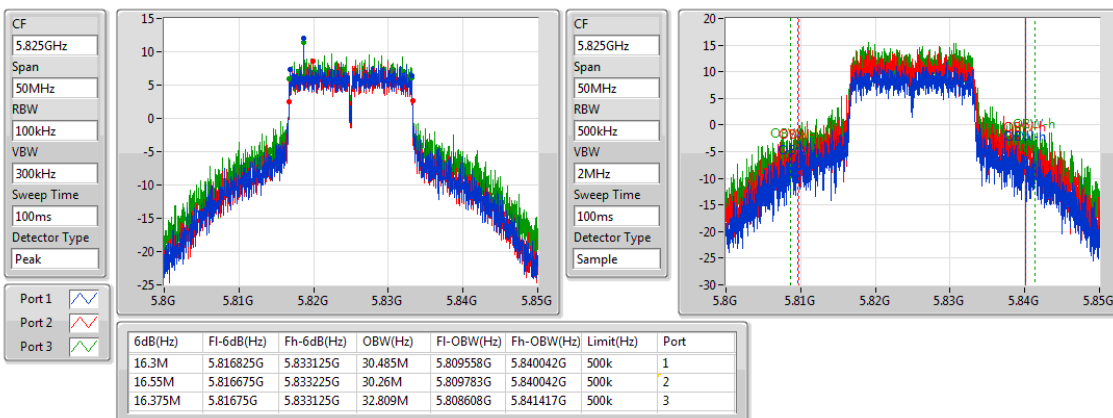
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802.11a_Nss1,(6Mbps)_3TX
EBW
5785MHz

15/01/2019

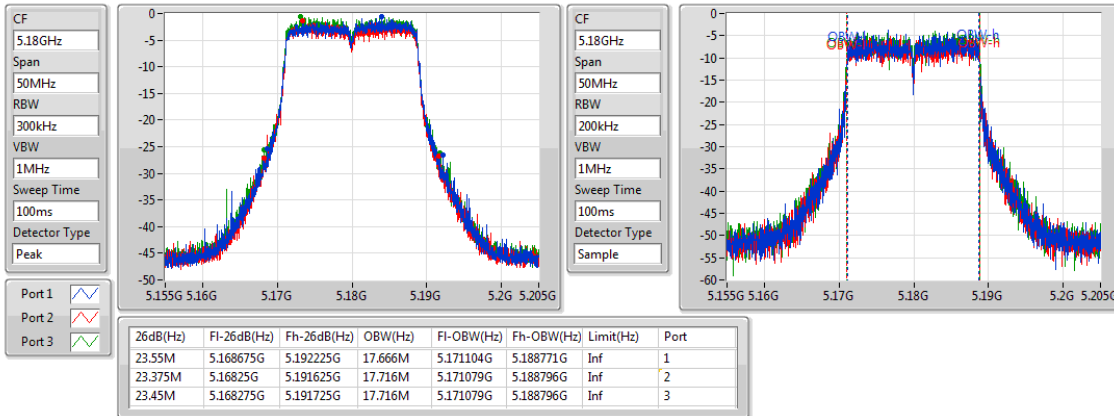

802.11a_Nss1,(6Mbps)_3TX
EBW
5825MHz

15/01/2019

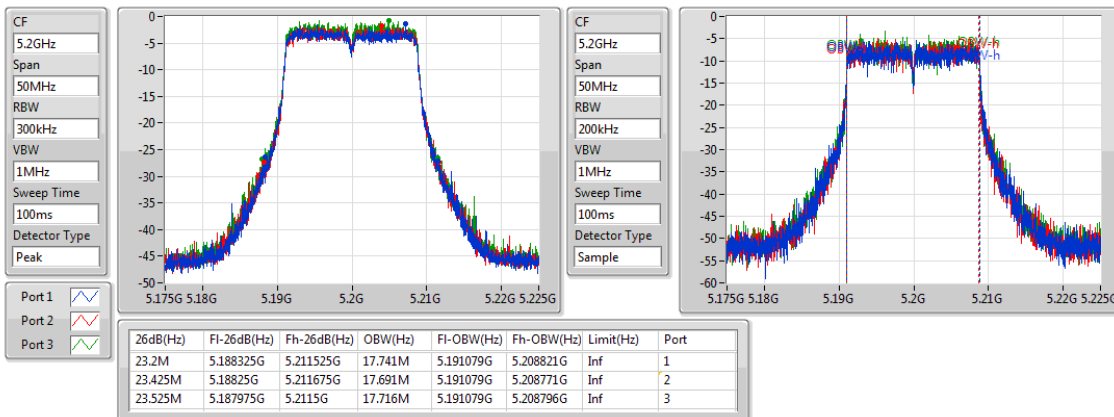


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5180MHz

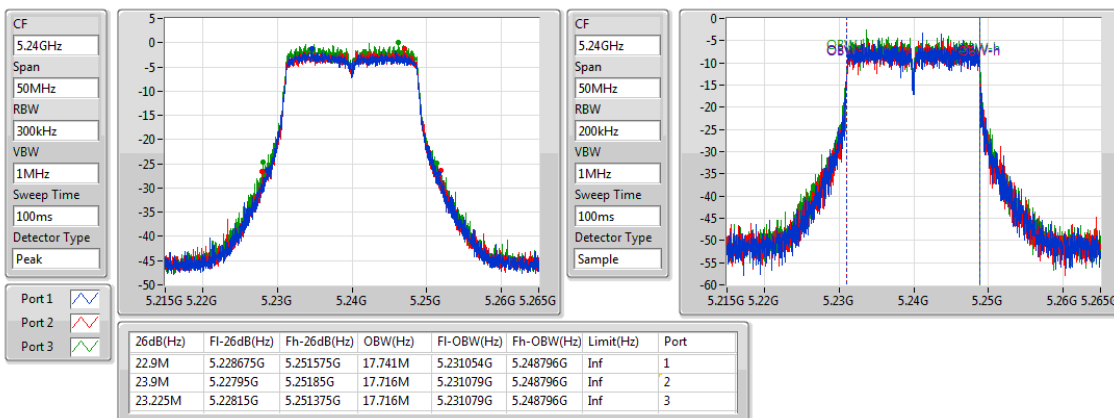
15/01/2019


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5200MHz

15/01/2019

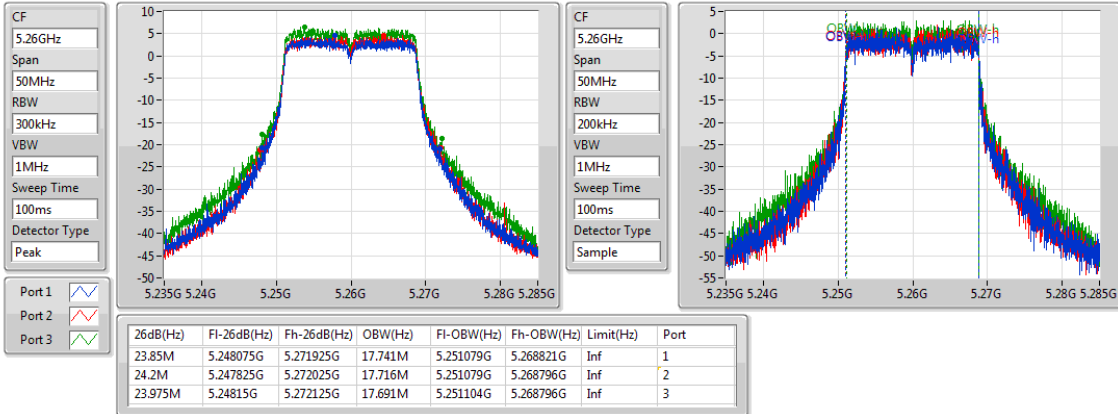

802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5240MHz

15/01/2019

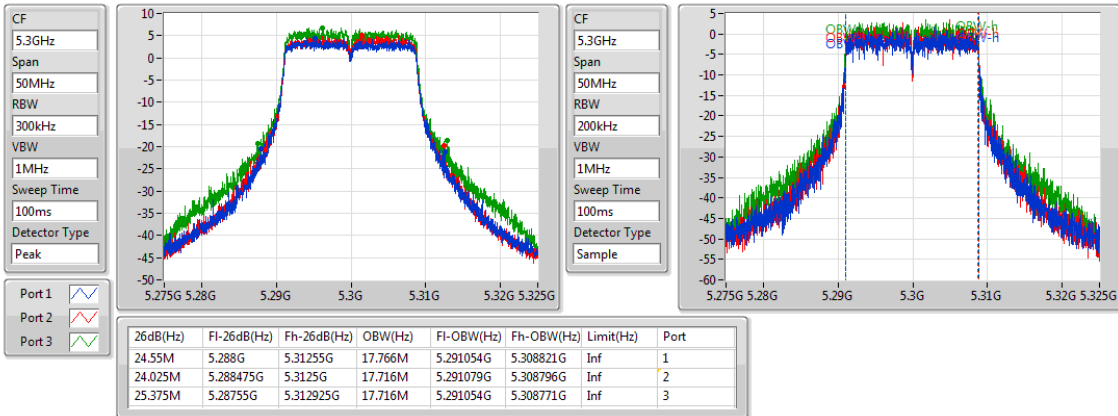


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5260MHz

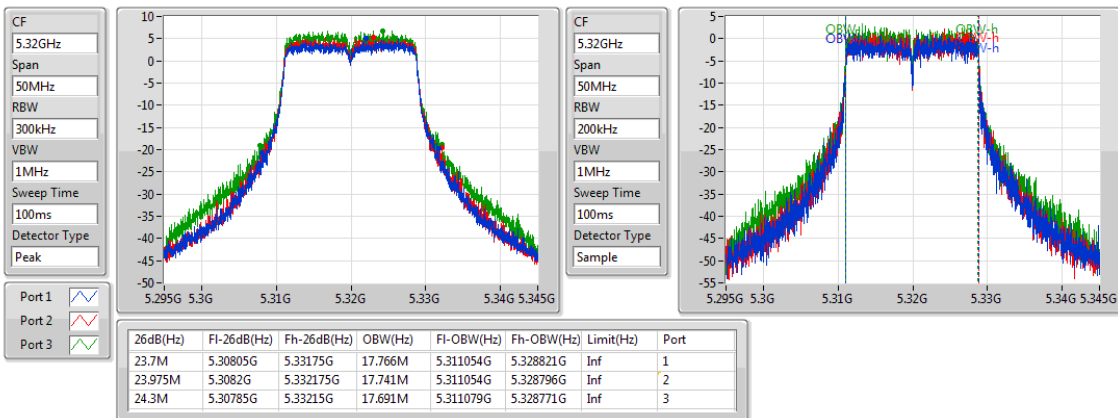
15/01/2019


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5300MHz

15/01/2019

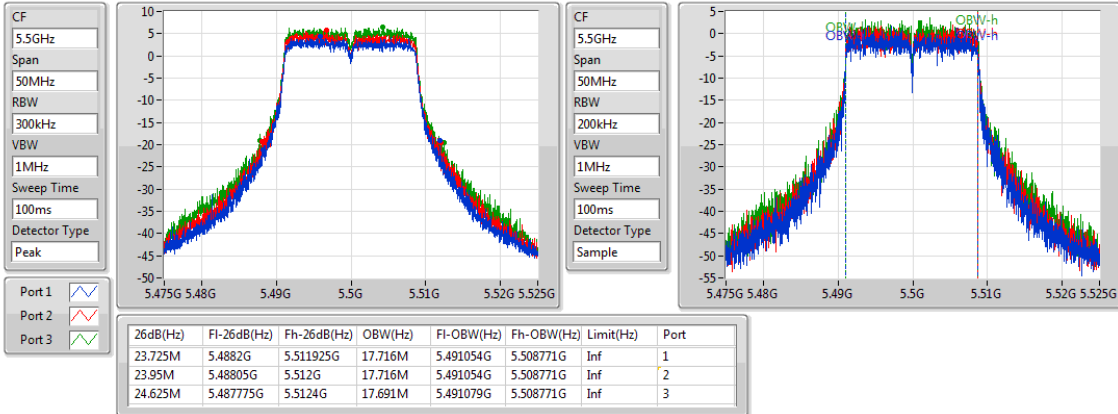

802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5320MHz

15/01/2019

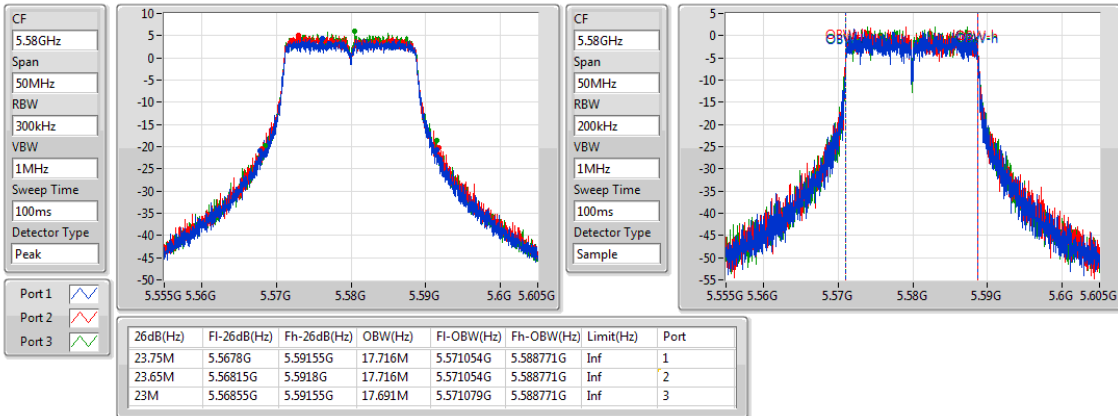


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5500MHz

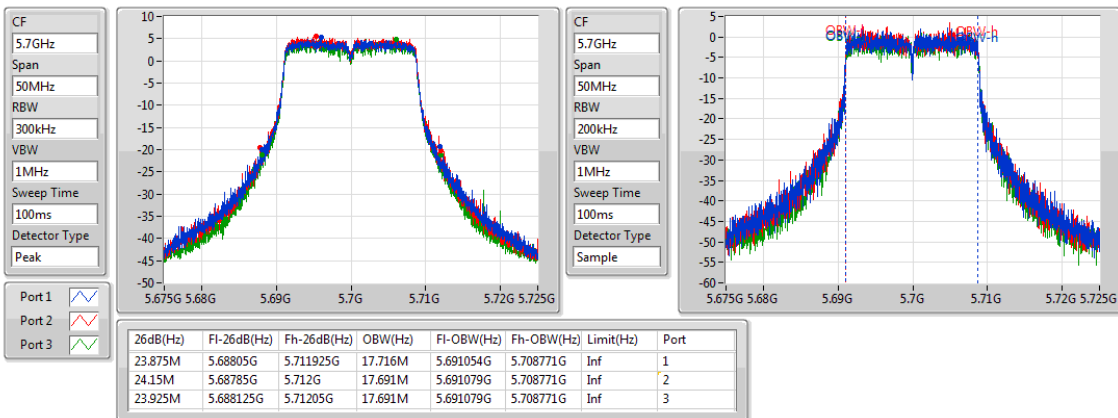
15/01/2019


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5580MHz

15/01/2019

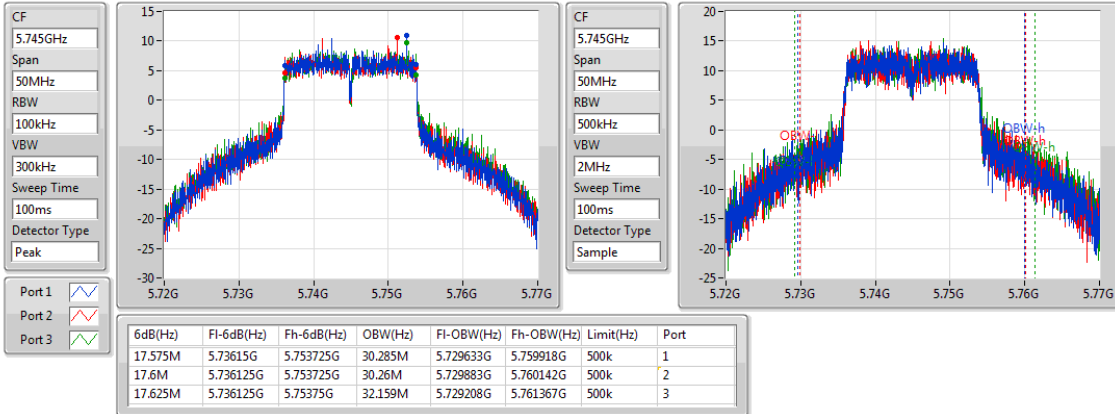

802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5700MHz

15/01/2019

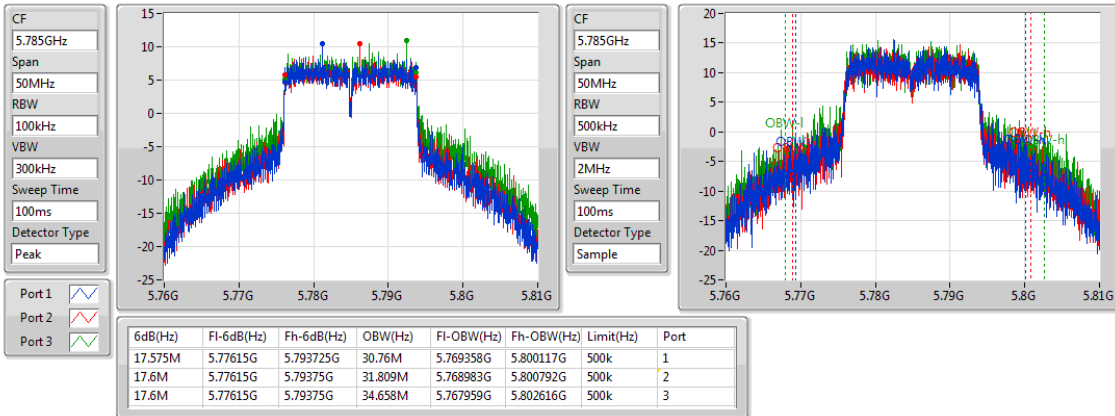


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5745MHz

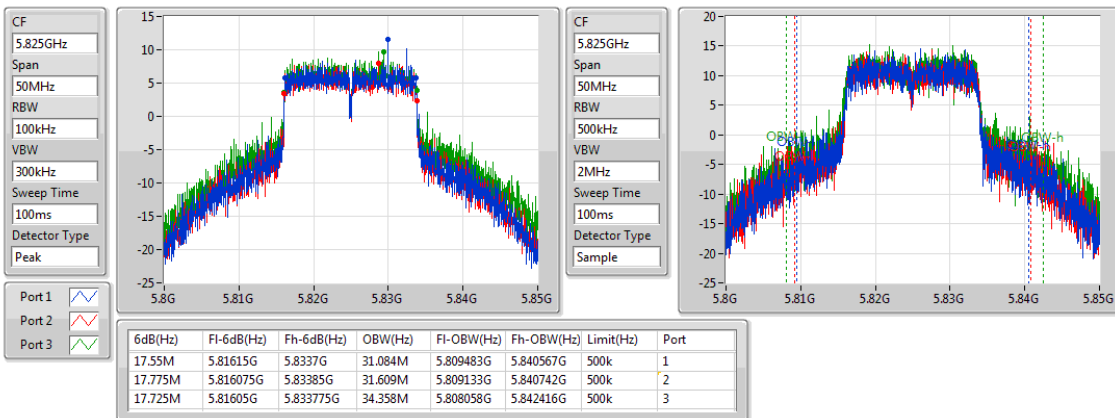
15/01/2019


802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5785MHz

15/01/2019

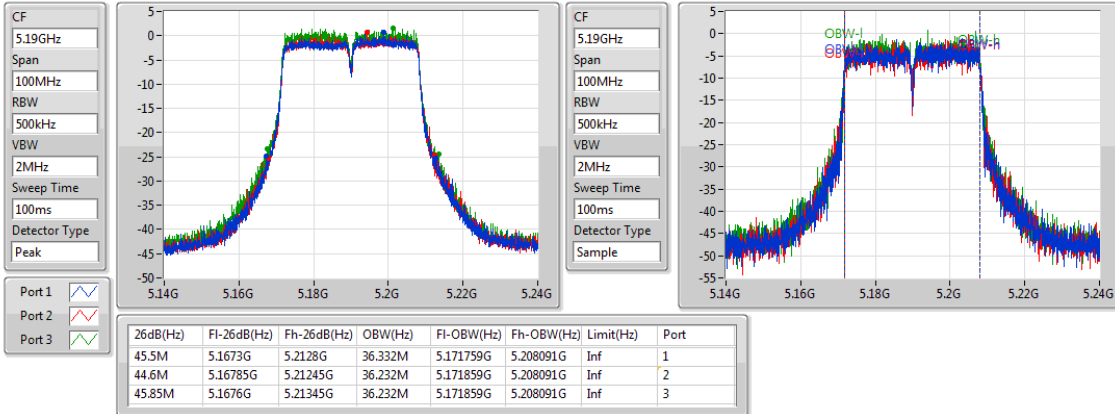

802.11ac VHT20_Nss1,(MCS0)_3TX
EBW
5825MHz

15/01/2019

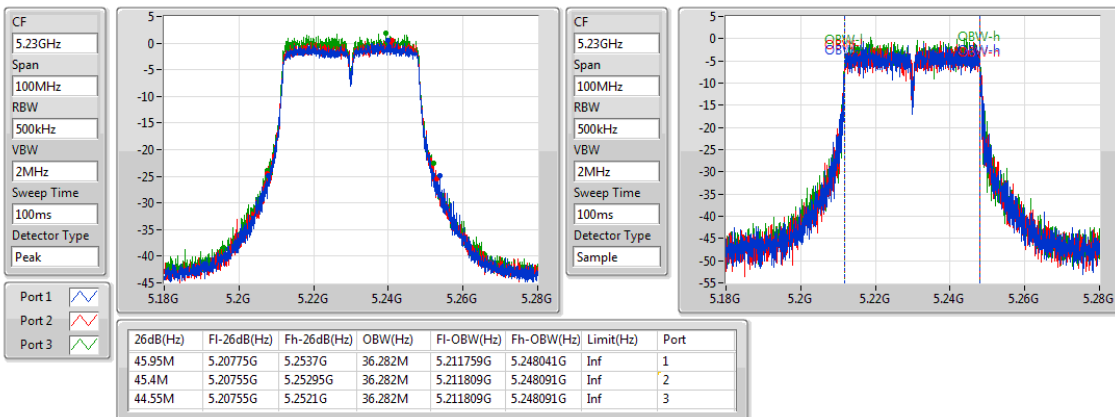


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5190MHz

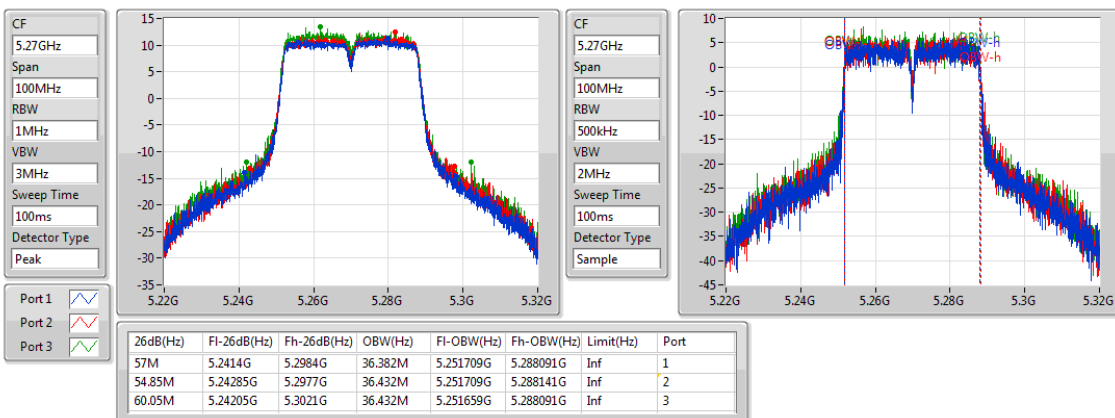
15/01/2019


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5230MHz

15/01/2019

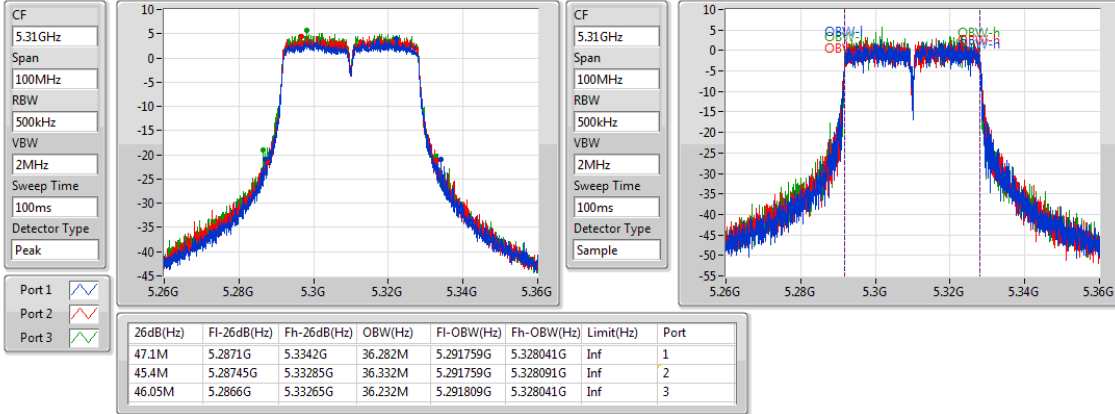

802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5270MHz

15/01/2019

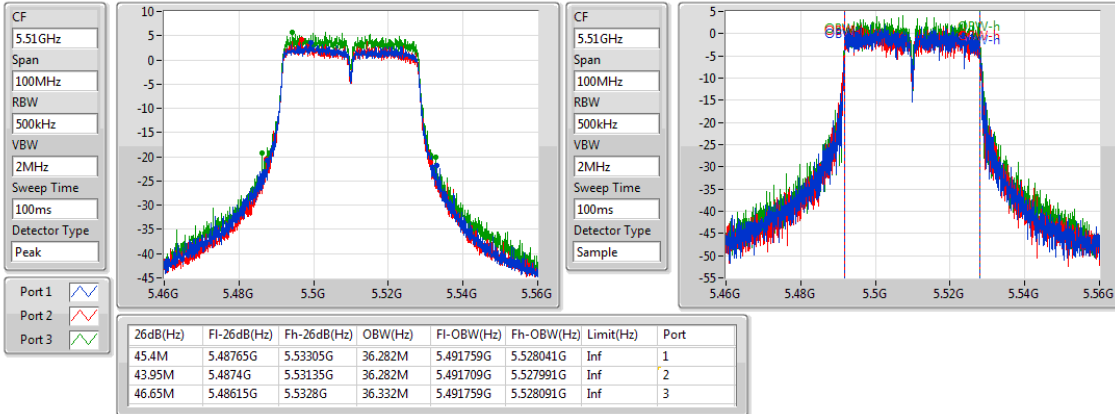


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5310MHz

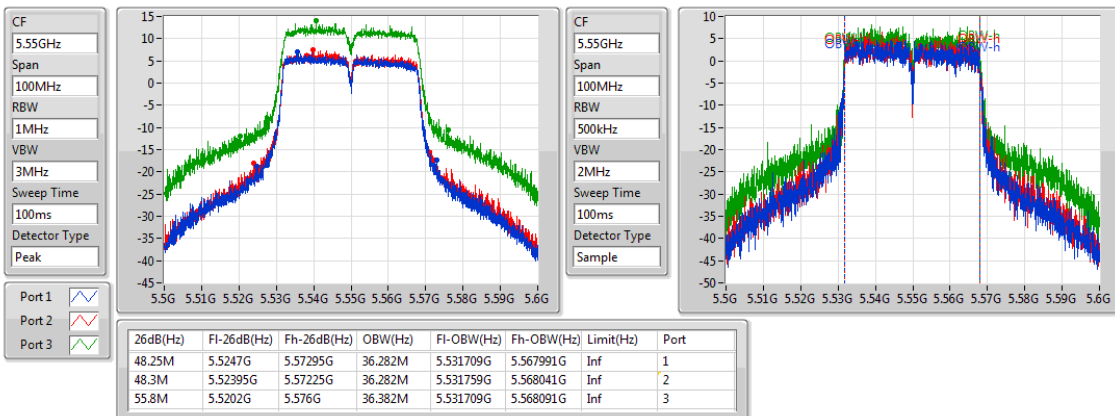
15/01/2019


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5510MHz

15/01/2019

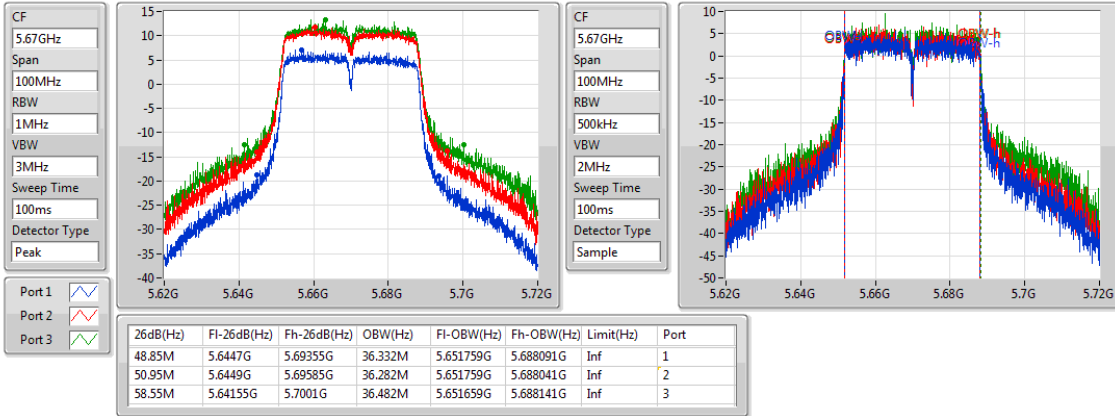

802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5550MHz

15/01/2019

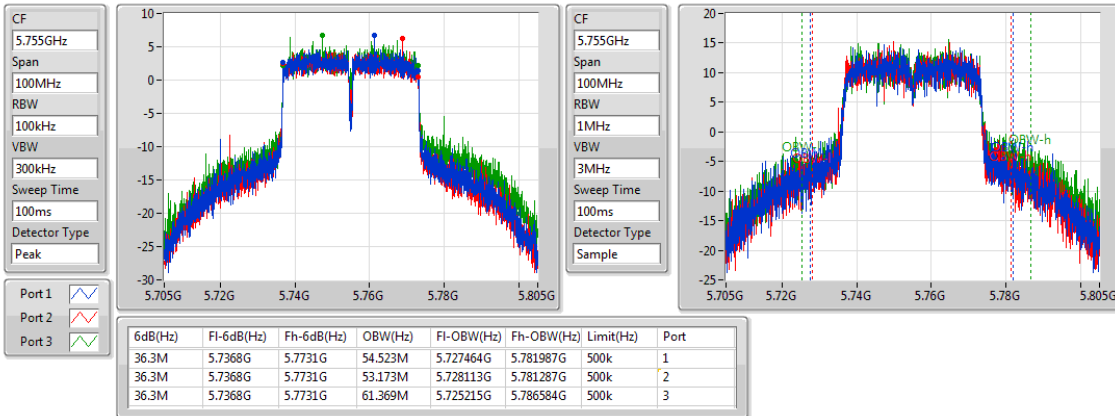


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5670MHz

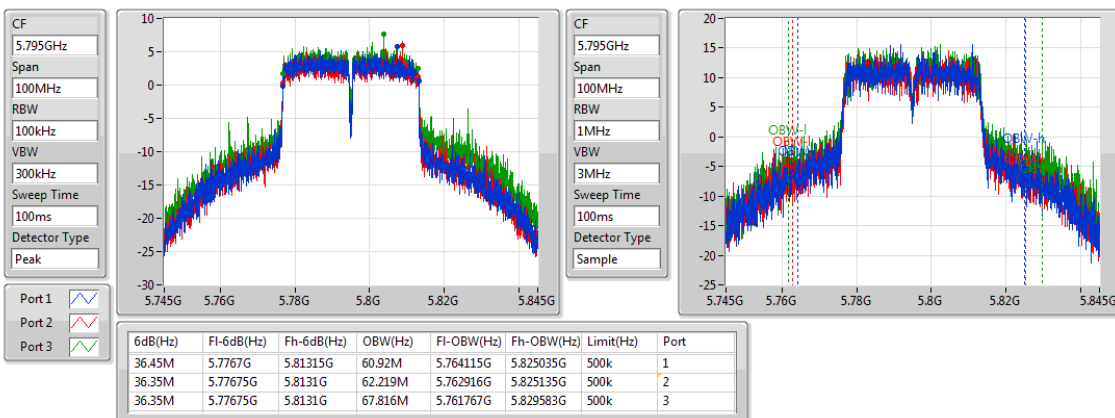
15/01/2019


802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5755MHz

15/01/2019

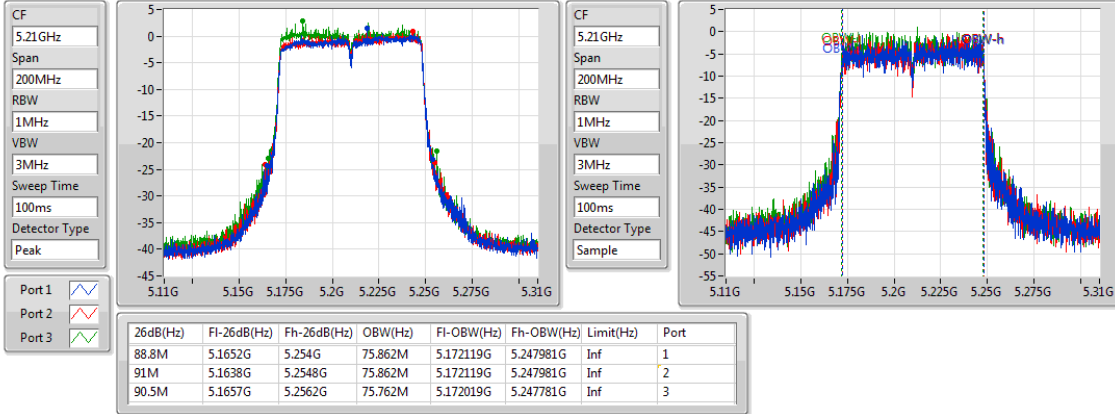

802.11ac VHT40_Nss1,(MCS0)_3TX
EBW
5795MHz

15/01/2019

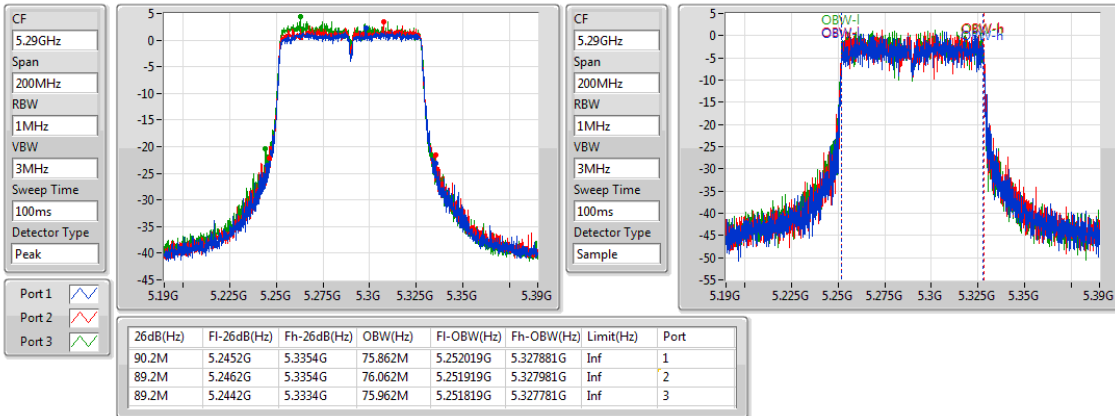


802.11ac VHT80_Nss1,(MCS0)_3TX
EBW
5210MHz

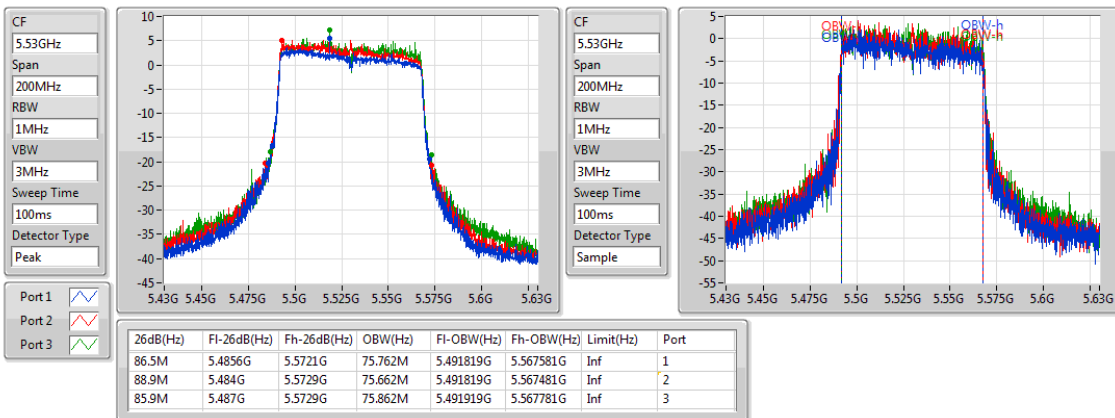
15/01/2019


802.11ac VHT80_Nss1,(MCS0)_3TX
EBW
5290MHz

15/01/2019

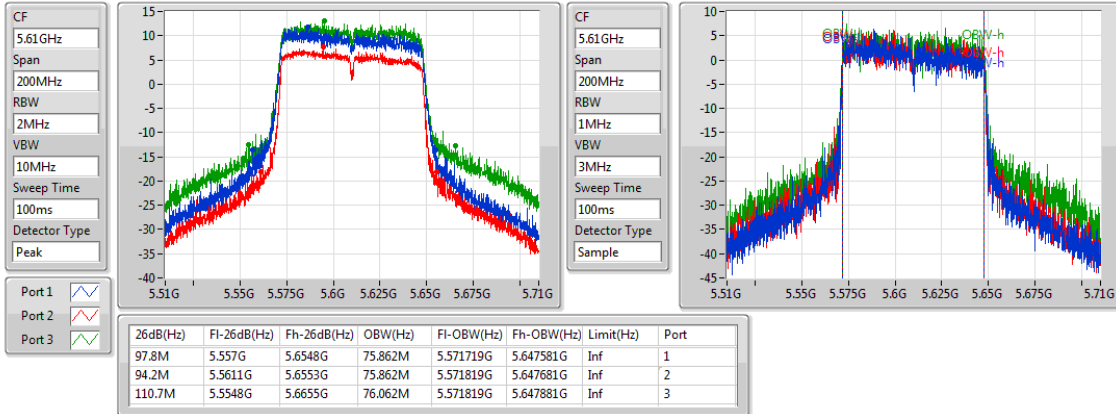

802.11ac VHT80_Nss1,(MCS0)_3TX
EBW
5530MHz

15/01/2019

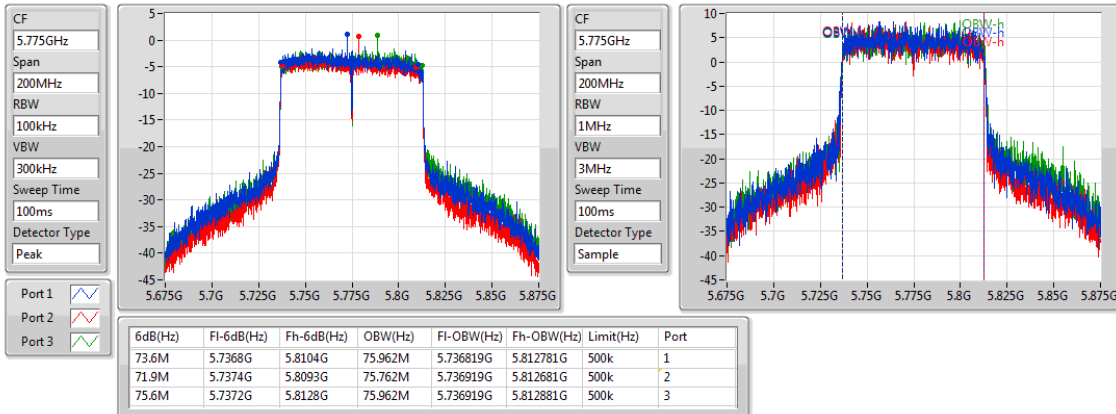


802.11ac VHT80_Nss1,(MCS0)_3TX
EBW
5610MHz

15/01/2019


802.11ac VHT80_Nss1,(MCS0)_3TX
EBW
5775MHz

15/01/2019



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	12.59	0.01816	18.12	0.06486
802.11ac VHT20_Nss1,(MCS0)_3TX	12.92	0.01959	18.45	0.06998
802.11ac VHT40_Nss1,(MCS0)_3TX	15.43	0.03491	20.96	0.12474
802.11ac VHT80_Nss1,(MCS0)_3TX	15.42	0.03483	20.95	0.12445
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	19.34	0.08590	24.87	0.30690
802.11ac VHT20_Nss1,(MCS0)_3TX	19.53	0.08974	25.06	0.32063
802.11ac VHT40_Nss1,(MCS0)_3TX	22.46	0.17620	27.99	0.62951
802.11ac VHT80_Nss1,(MCS0)_3TX	16.45	0.04416	21.98	0.15776
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	18.95	0.07852	24.75	0.29854
802.11ac VHT20_Nss1,(MCS0)_3TX	19.51	0.08933	25.31	0.33963
802.11ac VHT40_Nss1,(MCS0)_3TX	22.18	0.16520	27.98	0.62806
802.11ac VHT80_Nss1,(MCS0)_3TX	21.89	0.15453	27.69	0.58749
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	27.29	0.53580	33.09	2.03704
802.11ac VHT20_Nss1,(MCS0)_3TX	27.34	0.54200	33.14	2.06063
802.11ac VHT40_Nss1,(MCS0)_3TX	26.94	0.49431	32.74	1.87932
802.11ac VHT80_Nss1,(MCS0)_3TX	23.25	0.21135	29.05	0.80353

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.53	7.58	7.29	8.07	12.43	24.00	17.96	30.00
5200MHz	Pass	5.53	7.54	7.65	8.23	12.59	24.00	18.12	30.00
5240MHz	Pass	5.53	6.77	7.01	8.01	12.07	24.00	17.60	30.00
5260MHz	Pass	5.53	13.49	13.95	15.56	19.20	24.00	24.73	30.00
5300MHz	Pass	5.53	13.18	13.76	15.43	19.00	24.00	24.53	30.00
5320MHz	Pass	5.53	13.82	14.23	15.49	19.34	24.00	24.87	30.00
5500MHz	Pass	5.80	13.14	12.95	15.32	18.71	24.00	24.51	30.00
5580MHz	Pass	5.80	13.18	14.59	14.63	18.95	24.00	24.75	30.00
5700MHz	Pass	5.80	14.02	14.25	13.94	18.84	24.00	24.64	30.00
5745MHz	Pass	5.80	22.63	22.37	22.42	27.25	30.00	33.05	36.00
5785MHz	Pass	5.80	22.38	22.12	23.00	27.29	30.00	33.09	36.00
5825MHz	Pass	5.80	21.96	21.75	22.67	26.92	30.00	32.72	36.00
802.11ac_VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.53	8.17	7.61	8.61	12.92	24.00	18.45	30.00
5200MHz	Pass	5.53	7.44	7.59	8.32	12.57	24.00	18.10	30.00
5240MHz	Pass	5.53	7.36	7.61	8.56	12.65	24.00	18.18	30.00
5260MHz	Pass	5.53	13.48	13.58	15.57	19.09	24.00	24.62	30.00
5300MHz	Pass	5.53	13.81	14.29	15.90	19.53	24.00	25.06	30.00
5320MHz	Pass	5.53	13.83	14.32	15.67	19.45	24.00	24.98	30.00
5500MHz	Pass	5.80	13.61	14.62	15.72	19.51	24.00	25.31	30.00
5580MHz	Pass	5.80	12.98	14.49	14.65	18.87	24.00	24.67	30.00
5700MHz	Pass	5.80	14.40	14.69	13.96	19.13	24.00	24.93	30.00
5745MHz	Pass	5.80	22.73	22.45	22.53	27.34	30.00	33.14	36.00
5785MHz	Pass	5.80	22.41	22.01	22.61	27.12	30.00	32.92	36.00
5825MHz	Pass	5.80	22.09	21.62	22.72	26.94	30.00	32.74	36.00
802.11ac_VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.53	10.00	9.99	11.15	15.19	24.00	20.72	30.00
5230MHz	Pass	5.53	10.29	10.29	11.31	15.43	24.00	20.96	30.00
5270MHz	Pass	5.53	17.32	17.59	18.12	22.46	24.00	27.99	30.00
5310MHz	Pass	5.53	13.39	13.86	14.21	18.60	24.00	24.13	30.00
5510MHz	Pass	5.80	13.16	12.87	14.59	18.38	24.00	24.18	30.00
5550MHz	Pass	5.80	16.33	16.73	18.74	22.17	24.00	27.97	30.00
5670MHz	Pass	5.80	16.60	17.49	18.02	22.18	24.00	27.98	30.00
5755MHz	Pass	5.80	21.64	21.61	22.14	26.57	30.00	32.37	36.00
5795MHz	Pass	5.80	21.94	21.81	22.69	26.94	30.00	32.74	36.00
802.11ac_VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.53	10.27	10.36	11.26	15.42	24.00	20.95	30.00
5290MHz	Pass	5.53	11.25	11.70	12.06	16.45	24.00	21.98	30.00
5530MHz	Pass	5.80	12.23	13.44	13.66	17.93	24.00	23.73	30.00
5610MHz	Pass	5.80	16.66	16.80	17.80	21.89	24.00	27.69	30.00
5775MHz	Pass	5.80	18.80	17.82	18.74	23.25	30.00	29.05	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)_3TX	-0.36	9.94
802.11ac VHT20_Nss1,(MCS0)_3TX	-0.32	9.98
802.11ac VHT40_Nss1,(MCS0)_3TX	-0.95	9.35
802.11ac VHT80_Nss1,(MCS0)_3TX	-4.66	5.64
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	6.65	16.95
802.11ac VHT20_Nss1,(MCS0)_3TX	6.47	16.77
802.11ac VHT40_Nss1,(MCS0)_3TX	6.67	16.97
802.11ac VHT80_Nss1,(MCS0)_3TX	-2.91	7.39
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	6.38	16.95
802.11ac VHT20_Nss1,(MCS0)_3TX	6.30	16.87
802.11ac VHT40_Nss1,(MCS0)_3TX	6.29	16.86
802.11ac VHT80_Nss1,(MCS0)_3TX	2.24	12.81
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	12.88	23.45
802.11ac VHT20_Nss1,(MCS0)_3TX	12.73	23.30
802.11ac VHT40_Nss1,(MCS0)_3TX	9.20	19.77
802.11ac VHT80_Nss1,(MCS0)_3TX	2.56	13.13

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	10.30	-5.03	-5.07	-4.29	-0.49	6.70	9.81	17.00
5200MHz	Pass	10.30	-4.98	-5.10	-4.37	-0.36	6.70	9.94	17.00
5240MHz	Pass	10.30	-5.46	-5.50	-4.76	-0.70	6.70	9.60	17.00
5260MHz	Pass	10.30	1.36	1.46	3.36	6.53	6.70	16.83	17.00
5300MHz	Pass	10.30	0.78	1.29	3.03	6.34	6.70	16.64	17.00
5320MHz	Pass	10.30	1.57	1.87	3.42	6.65	6.70	16.95	17.00
5500MHz	Pass	10.57	0.57	0.77	2.81	5.97	6.43	16.54	17.00
5580MHz	Pass	10.57	0.82	2.31	2.45	6.38	6.43	16.95	17.00
5700MHz	Pass	10.57	1.48	1.73	1.28	5.95	6.43	16.52	17.00
5745MHz	Pass	10.57	8.67	8.30	8.44	12.88	25.43	23.45	36.00
5785MHz	Pass	10.57	8.51	8.12	8.37	12.77	25.43	23.34	36.00
5825MHz	Pass	10.57	7.85	7.62	8.34	12.46	25.43	23.03	36.00
802.11ac_VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	10.30	-4.65	-5.09	-4.45	-0.32	6.70	9.98	17.00
5200MHz	Pass	10.30	-5.59	-5.41	-4.54	-0.62	6.70	9.68	17.00
5240MHz	Pass	10.30	-5.14	-5.02	-4.25	-0.43	6.70	9.87	17.00
5260MHz	Pass	10.30	0.63	1.13	2.81	6.23	6.70	16.53	17.00
5300MHz	Pass	10.30	1.06	1.43	3.09	6.40	6.70	16.70	17.00
5320MHz	Pass	10.30	1.17	1.68	2.79	6.47	6.70	16.77	17.00
5500MHz	Pass	10.57	0.87	1.97	2.59	6.30	6.43	16.87	17.00
5580MHz	Pass	10.57	0.13	1.67	1.75	5.60	6.43	16.17	17.00
5700MHz	Pass	10.57	1.67	1.94	1.60	6.23	6.43	16.80	17.00
5745MHz	Pass	10.57	8.41	8.45	8.29	12.73	25.43	23.30	36.00
5785MHz	Pass	10.57	8.16	7.70	8.35	12.52	25.43	23.09	36.00
5825MHz	Pass	10.57	7.56	7.19	7.86	12.07	25.43	22.64	36.00
802.11ac_VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	10.30	-6.10	-6.20	-5.22	-1.29	6.70	9.01	17.00
5230MHz	Pass	10.30	-5.90	-5.68	-4.67	-0.95	6.70	9.35	17.00
5270MHz	Pass	10.30	1.73	2.25	2.86	6.67	6.70	16.97	17.00
5310MHz	Pass	10.30	-2.47	-1.84	-1.31	2.51	6.70	12.81	17.00
5510MHz	Pass	10.57	-2.73	-2.85	-1.23	2.36	6.43	12.93	17.00
5550MHz	Pass	10.57	0.92	1.20	3.09	6.29	6.43	16.86	17.00
5670MHz	Pass	10.57	0.98	2.08	2.21	6.21	6.43	16.78	17.00
5755MHz	Pass	10.57	4.25	4.17	4.81	8.77	25.43	19.34	36.00
5795MHz	Pass	10.57	4.62	4.29	5.14	9.20	25.43	19.77	36.00
802.11ac_VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	10.30	-9.29	-8.86	-8.44	-4.66	6.70	5.64	17.00
5290MHz	Pass	10.30	-7.89	-7.50	-6.72	-2.91	6.70	7.39	17.00
5530MHz	Pass	10.57	-5.76	-6.03	-5.04	-1.27	6.43	9.30	17.00
5610MHz	Pass	10.57	-2.51	-2.23	-1.75	2.24	6.43	12.81	17.00
5775MHz	Pass	10.57	-1.37	-2.31	-1.65	2.56	25.43	13.13	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

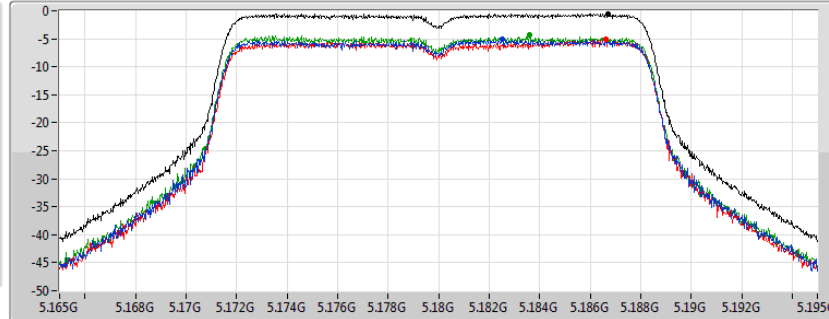
802.11a_Nss1,(6Mbps)_3TX

PSD

5180MHz

15/01/2019

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.49	-0.49	-5.03	-5.07	-4.29

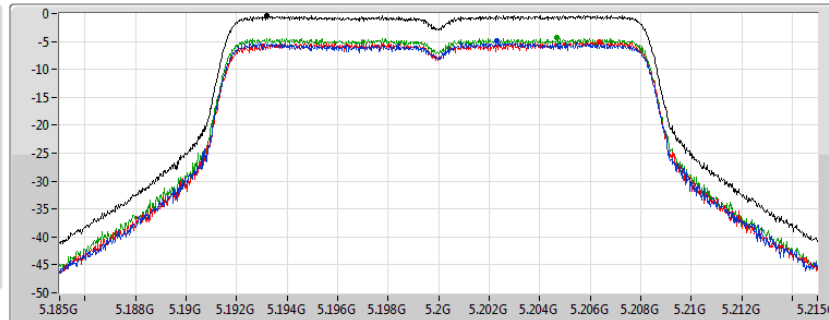
802.11a_Nss1,(6Mbps)_3TX

PSD

5200MHz

15/01/2019

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.36	-0.36	-4.98	-5.10	-4.37

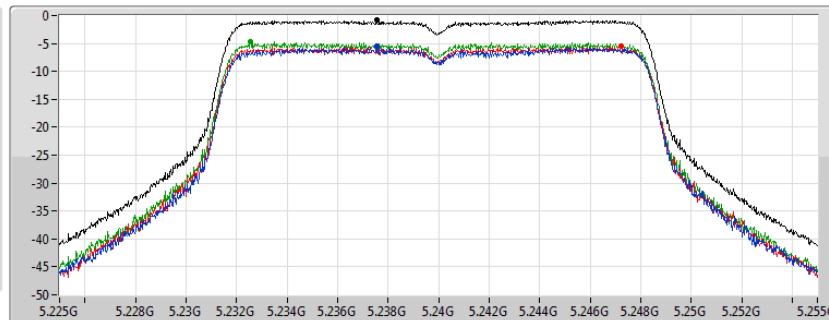
802.11a_Nss1,(6Mbps)_3TX

PSD

5240MHz

15/01/2019

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

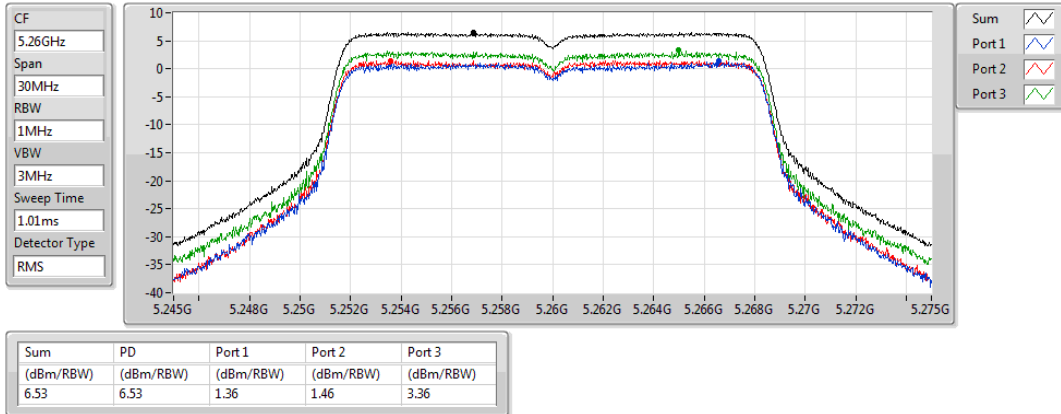
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.70	-0.70	-5.46	-5.50	-4.76

802.11a_Nss1,(6Mbps)_3TX

PSD

5260MHz

15/01/2019

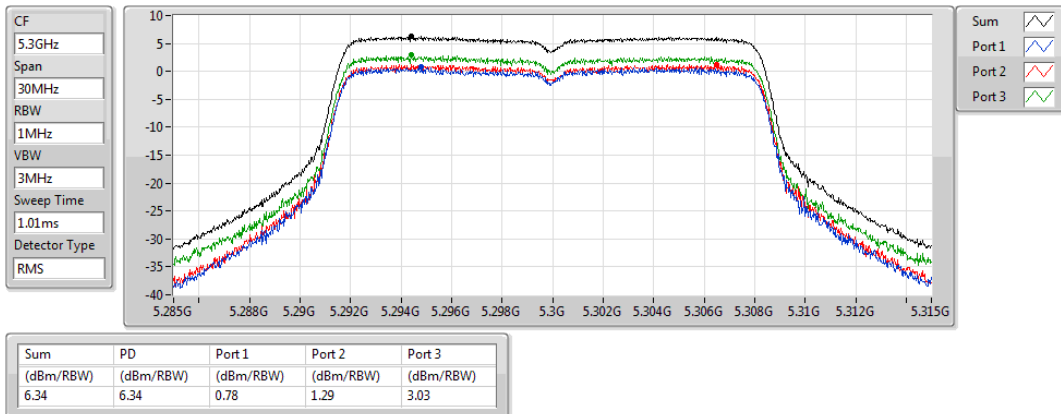


802.11a_Nss1,(6Mbps)_3TX

PSD

5300MHz

15/01/2019

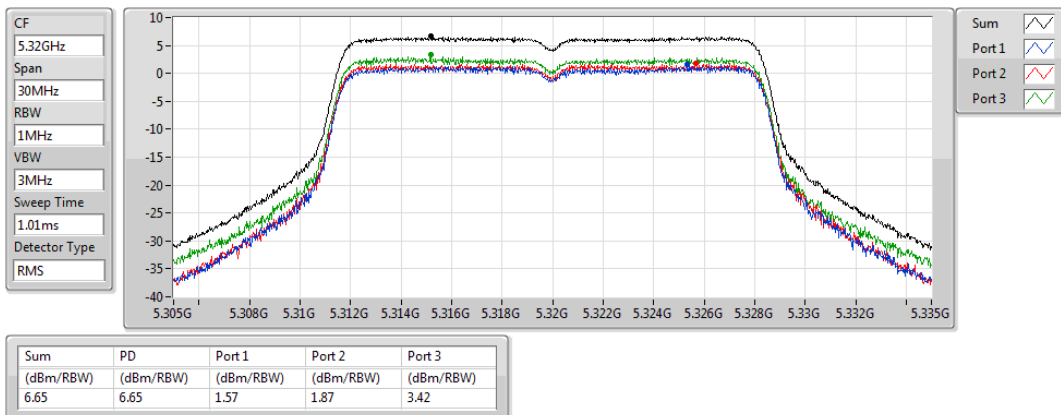


802.11a_Nss1,(6Mbps)_3TX

PSD

5320MHz

15/01/2019



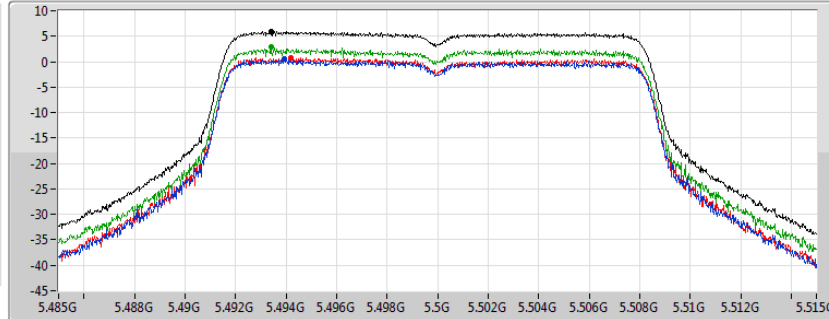
802.11a_Nss1,(6Mbps)_3TX

PSD

5500MHz

15/01/2019

CF
5.5GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
5.97	5.97	0.57	0.77	2.81

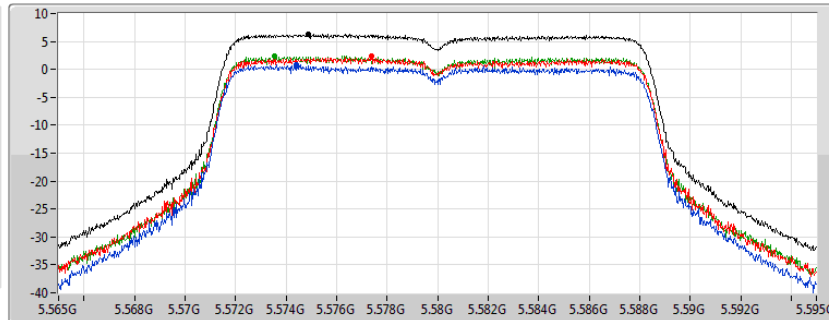
802.11a_Nss1,(6Mbps)_3TX

PSD

5580MHz

15/01/2019

CF
5.58GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
6.38	6.38	0.82	2.31	2.45

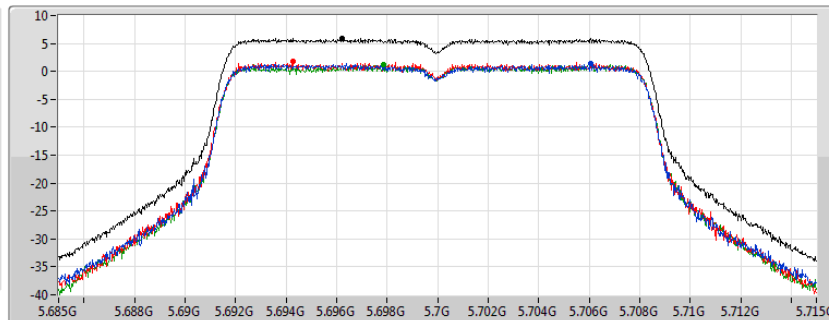
802.11a_Nss1,(6Mbps)_3TX

PSD

5700MHz

15/01/2019

CF
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

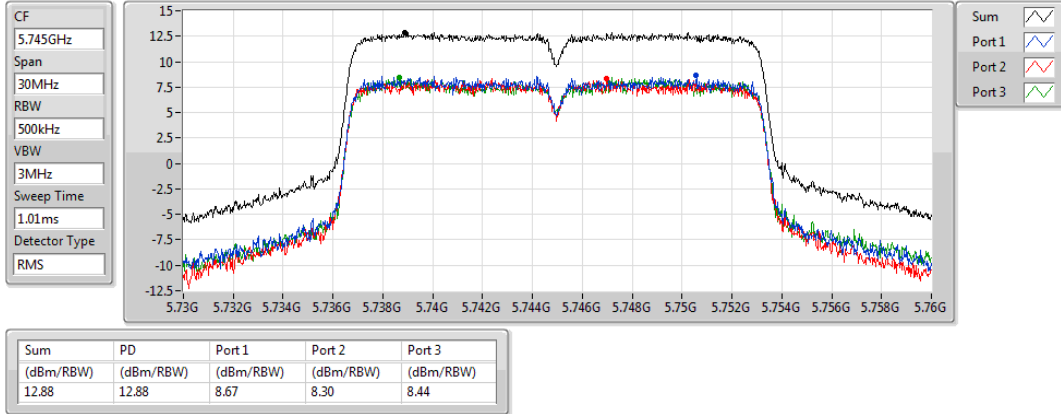
Sum	PD	Port 1	Port 2	Port 3
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
5.95	5.95	1.48	1.73	1.28

802.11a_Nss1,(6Mbps)_3TX

PSD

5745MHz

15/01/2019

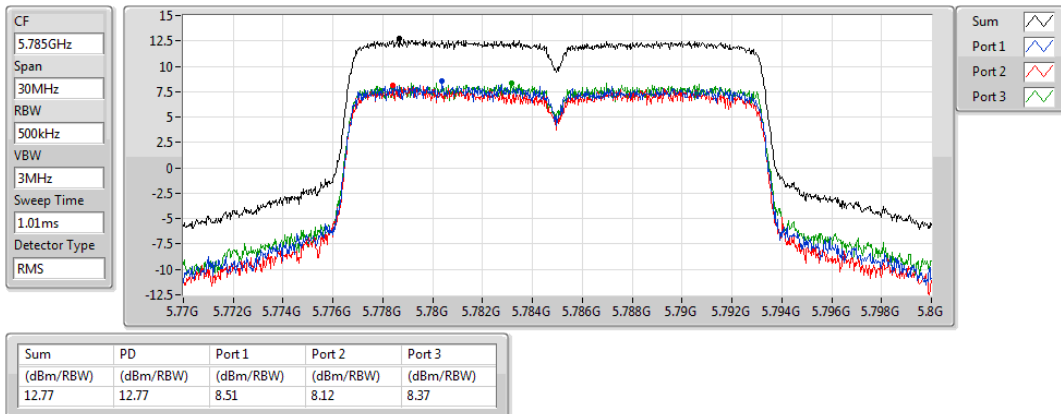


802.11a_Nss1,(6Mbps)_3TX

PSD

5785MHz

15/01/2019

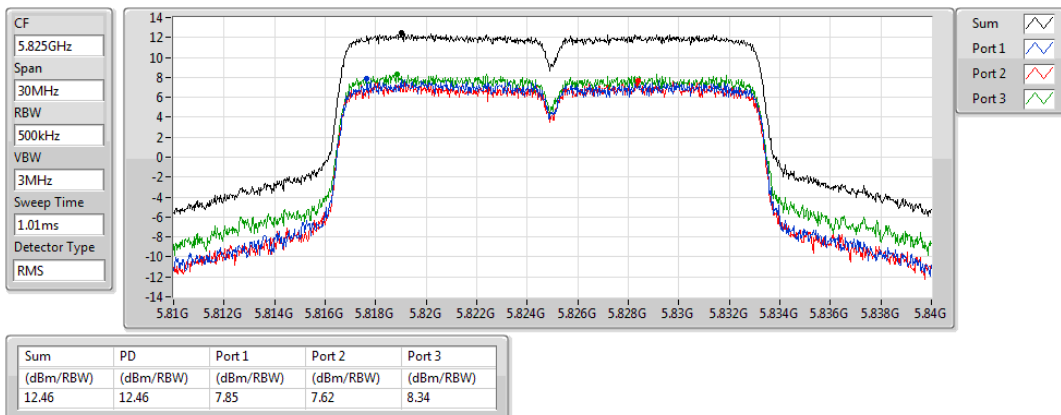


802.11a_Nss1,(6Mbps)_3TX

PSD

5825MHz

15/01/2019

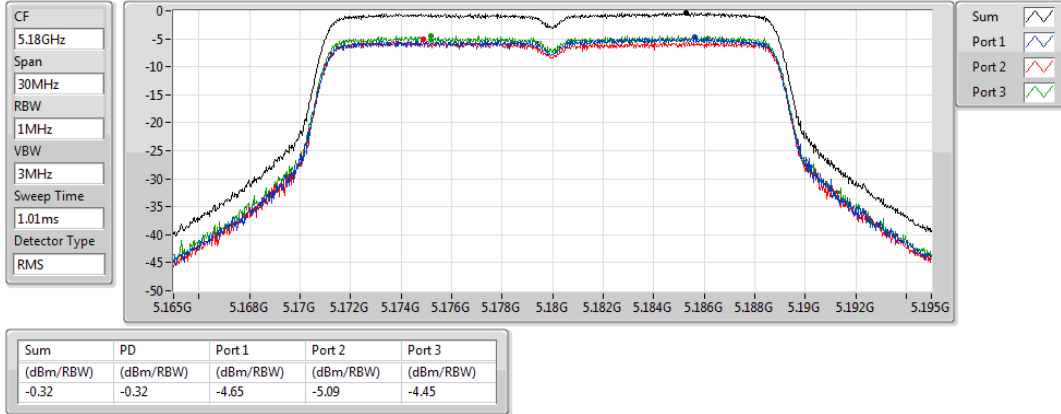


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5180MHz

15/01/2019

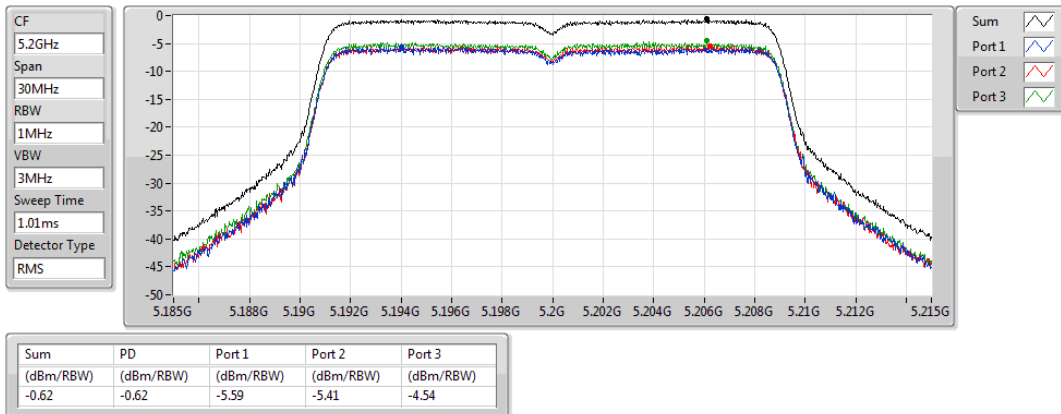


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5200MHz

15/01/2019

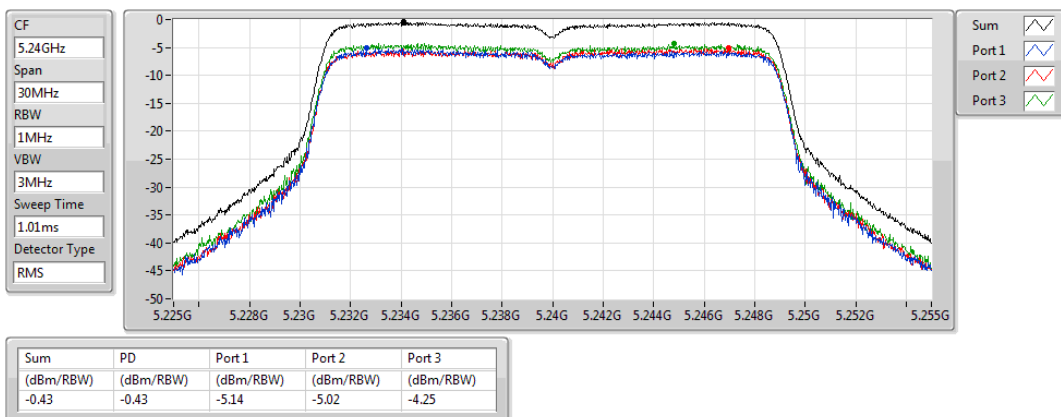


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5240MHz

15/01/2019

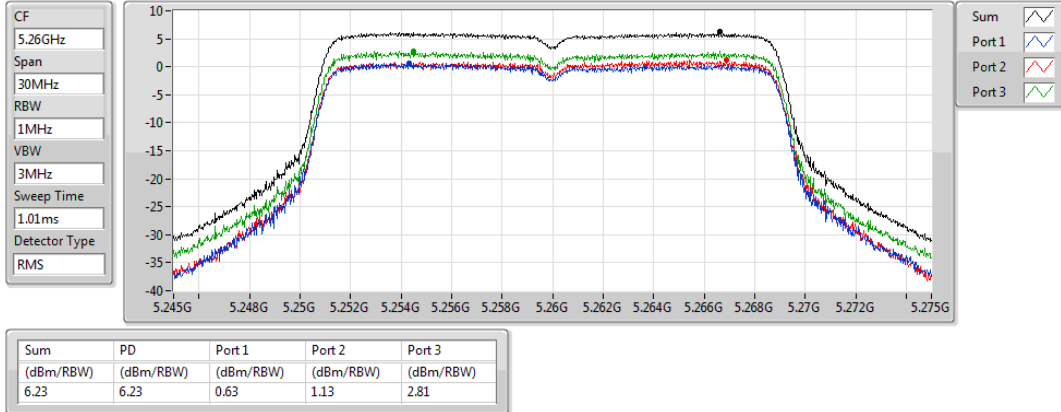


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5260MHz

15/01/2019

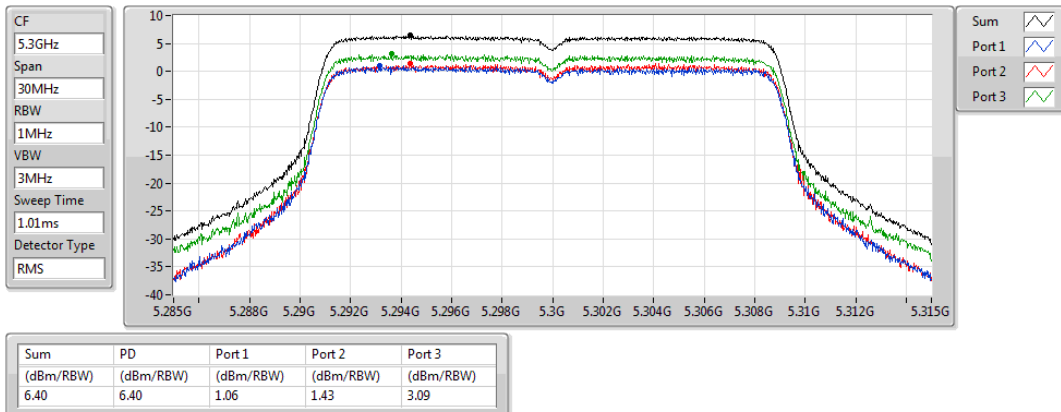


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5300MHz

15/01/2019

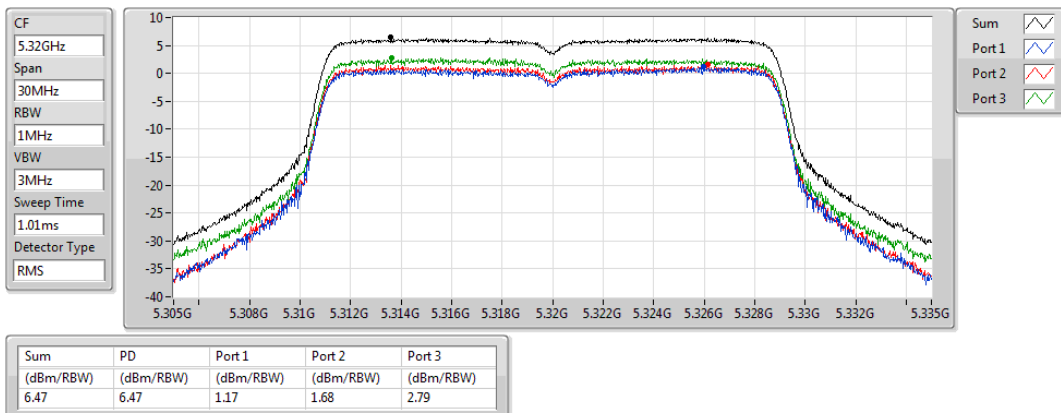


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5320MHz

15/01/2019

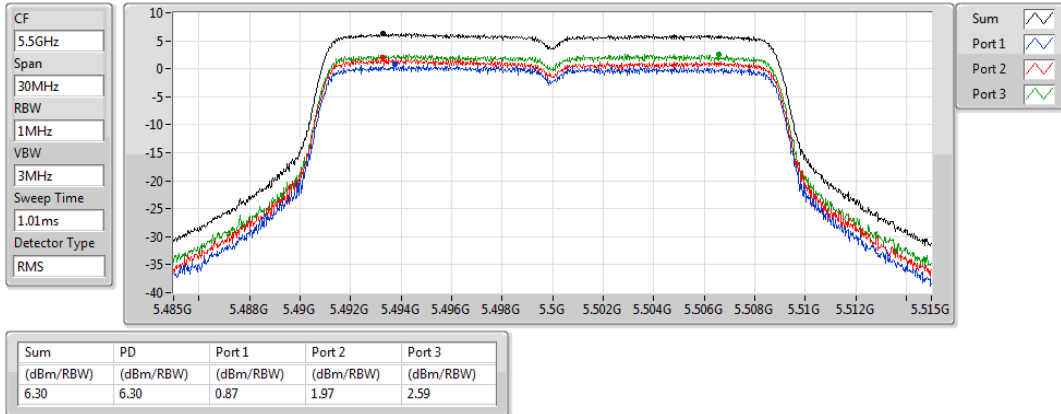


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5500MHz

15/01/2019

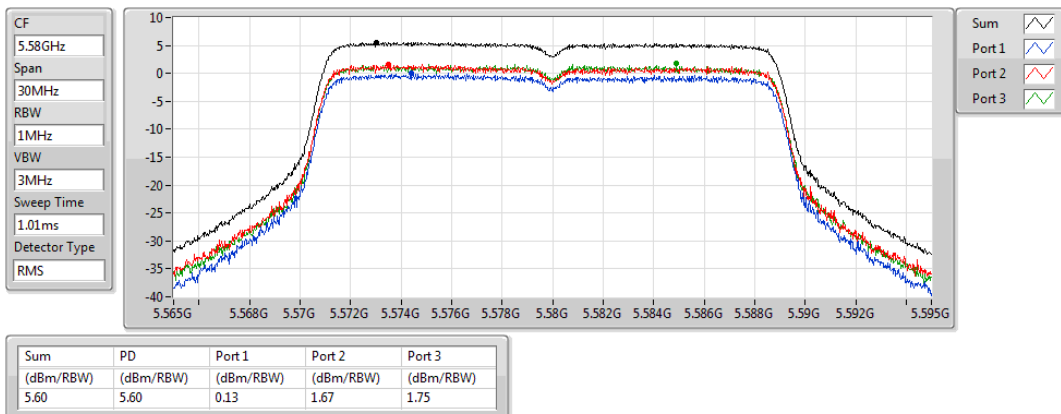


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5580MHz

15/01/2019

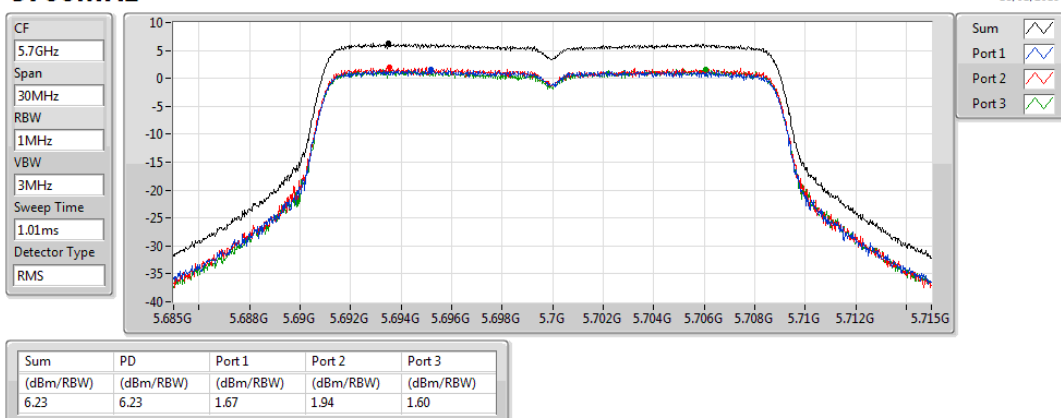


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5700MHz

15/01/2019

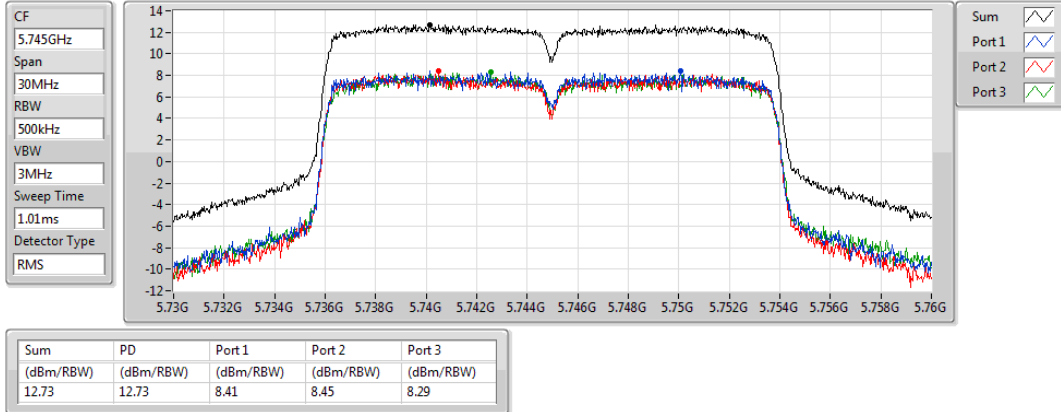


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5745MHz

15/01/2019

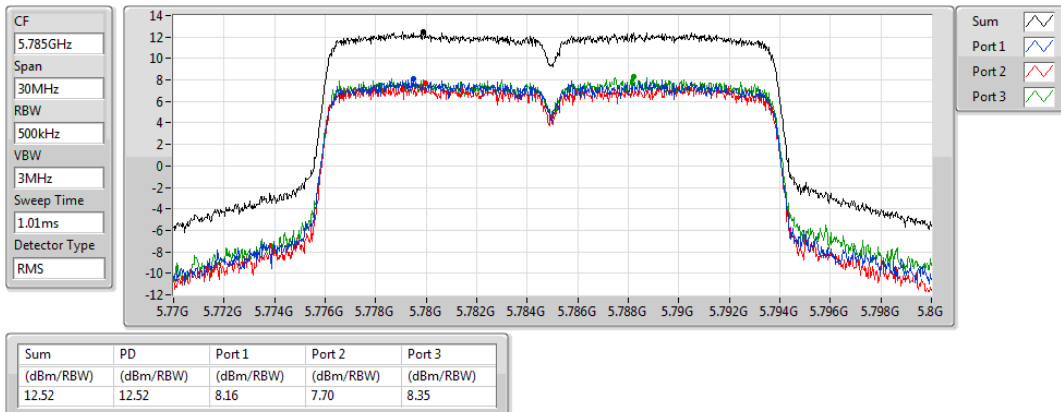


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5785MHz

15/01/2019

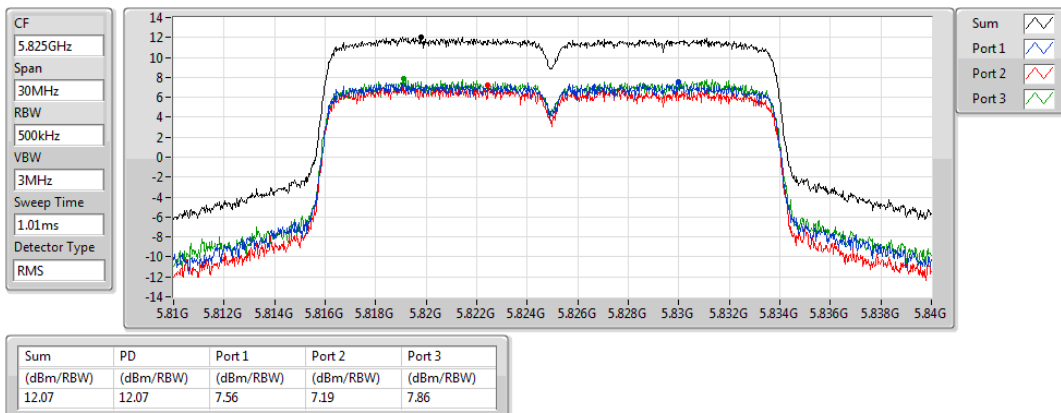


802.11ac VHT20_Nss1,(MCS0)_3TX

PSD

5825MHz

15/01/2019

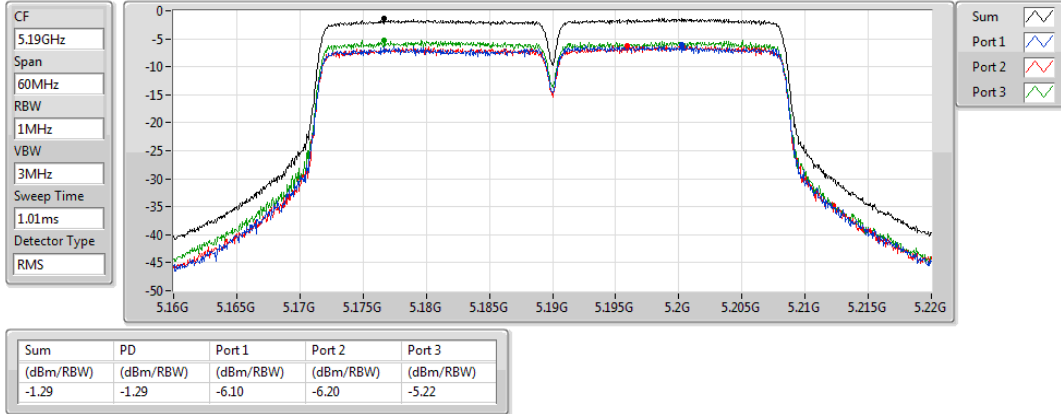


802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5190MHz

15/01/2019

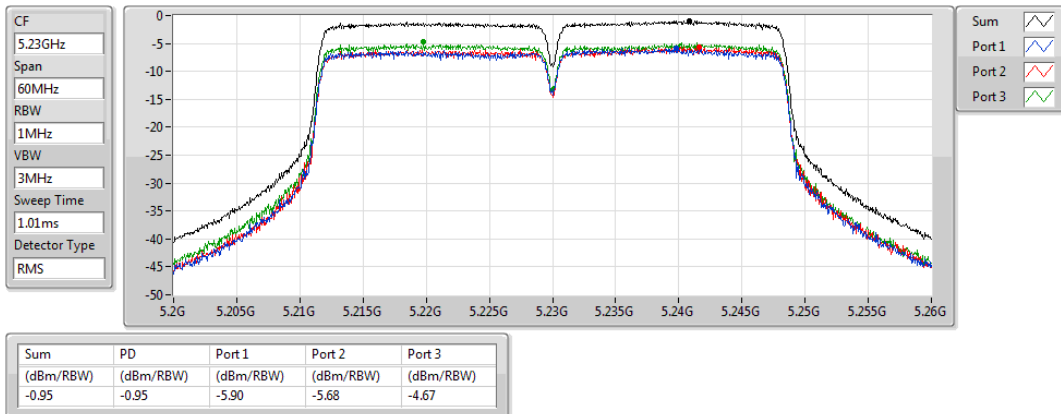


802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5230MHz

15/01/2019

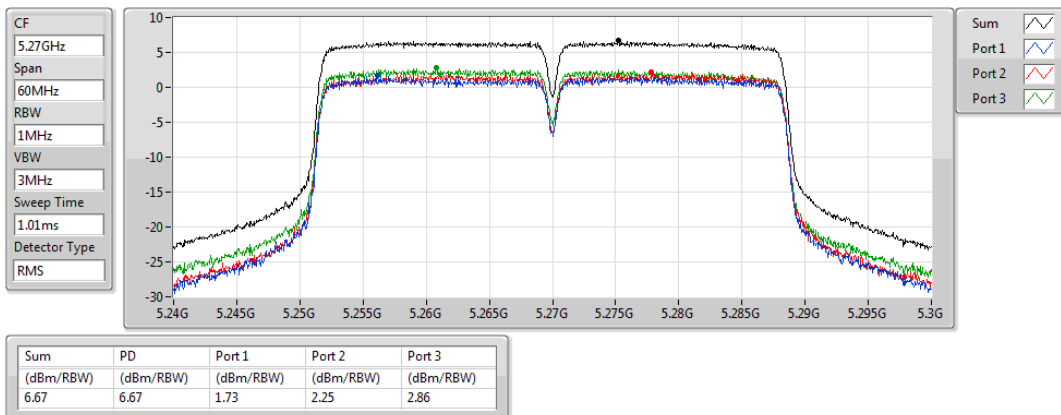


802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5270MHz

15/01/2019



802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5310MHz

15/01/2019

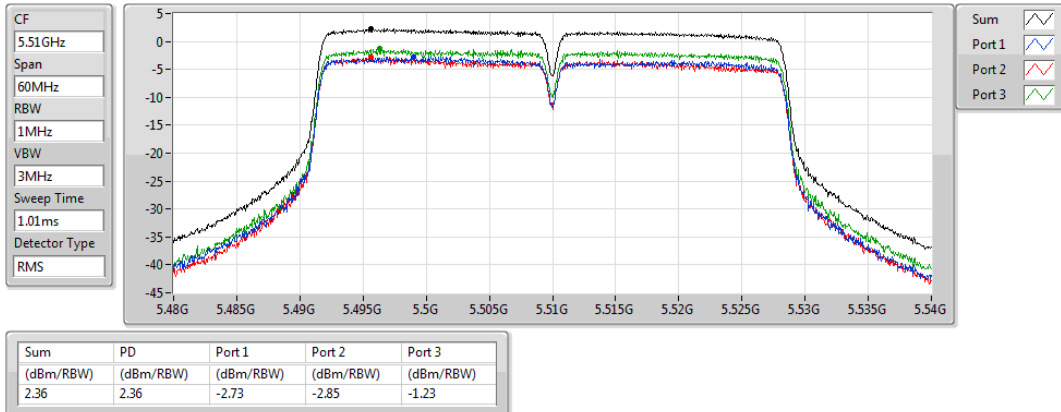


802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5510MHz

15/01/2019

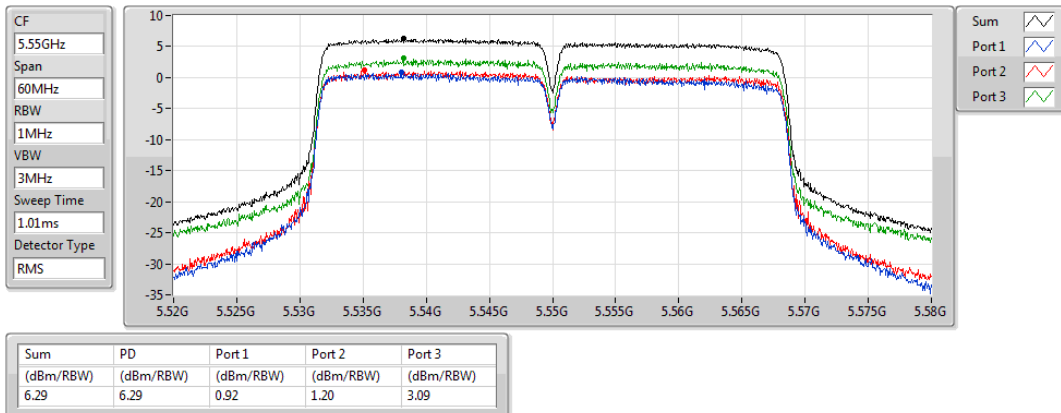


802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5550MHz

15/01/2019



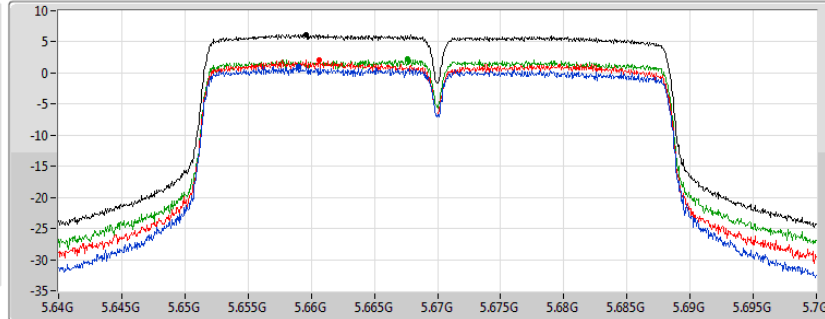
802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5670MHz

15/01/2019

CF
5.67GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.21	6.21	0.98	2.08	2.21

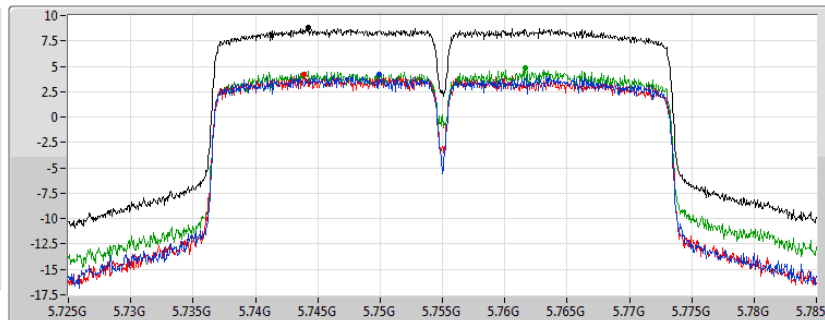
802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5755MHz

15/01/2019

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.77	8.77	4.25	4.17	4.81

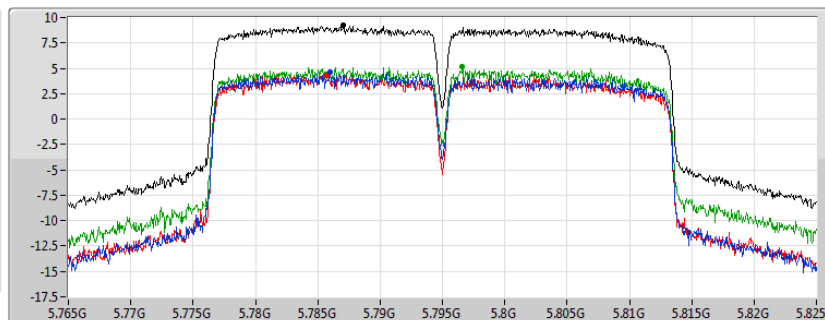
802.11ac VHT40_Nss1,(MCS0)_3TX

PSD

5795MHz

15/01/2019

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

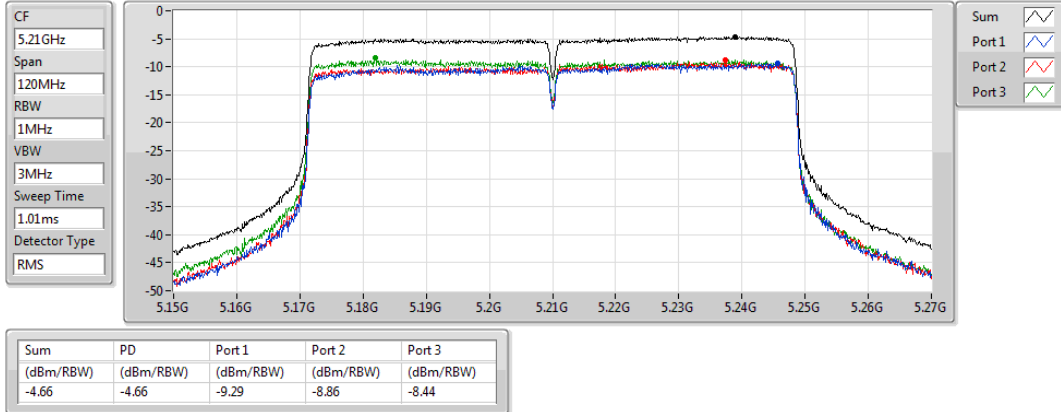
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.20	9.20	4.62	4.29	5.14

802.11ac VHT80_Nss1,(MCS0)_3TX

PSD

5210MHz

15/01/2019

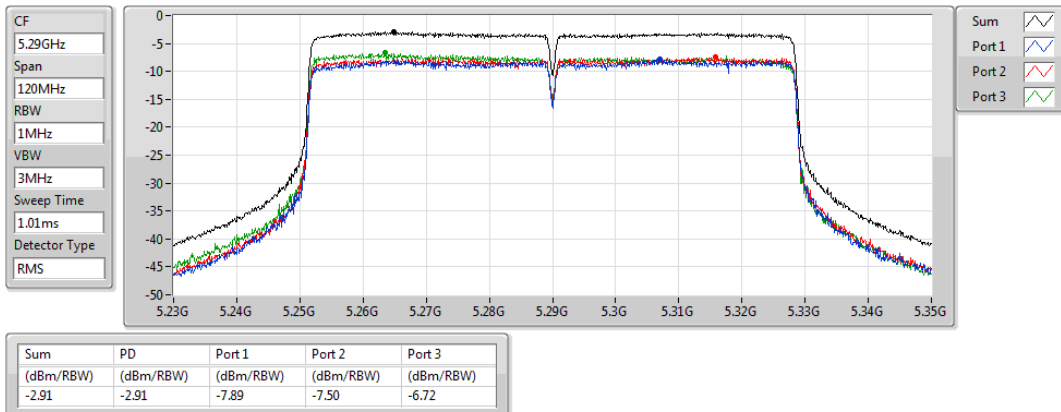


802.11ac VHT80_Nss1,(MCS0)_3TX

PSD

5290MHz

15/01/2019

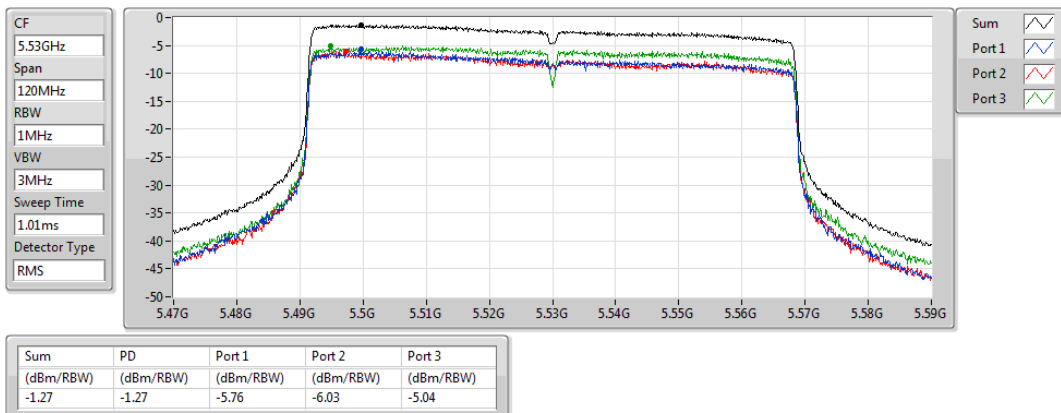


802.11ac VHT80_Nss1,(MCS0)_3TX

PSD

5530MHz

15/01/2019

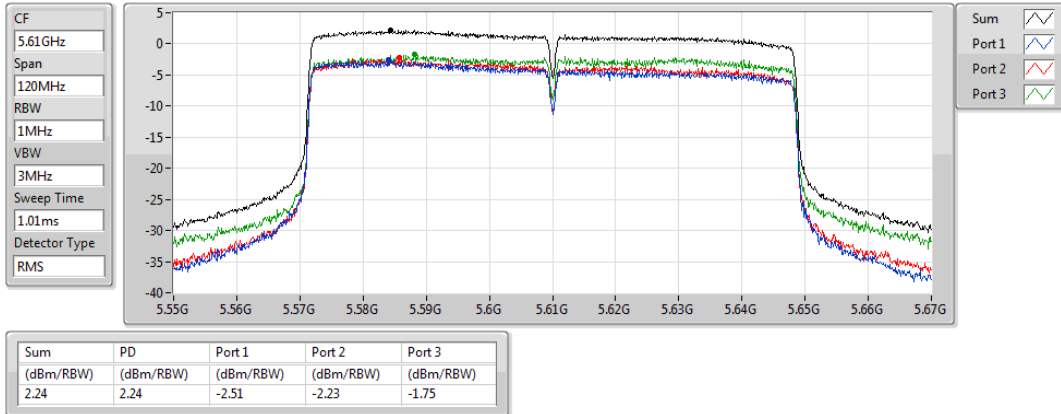


802.11ac VHT80_Nss1,(MCS0)_3TX

PSD

5610MHz

15/01/2019

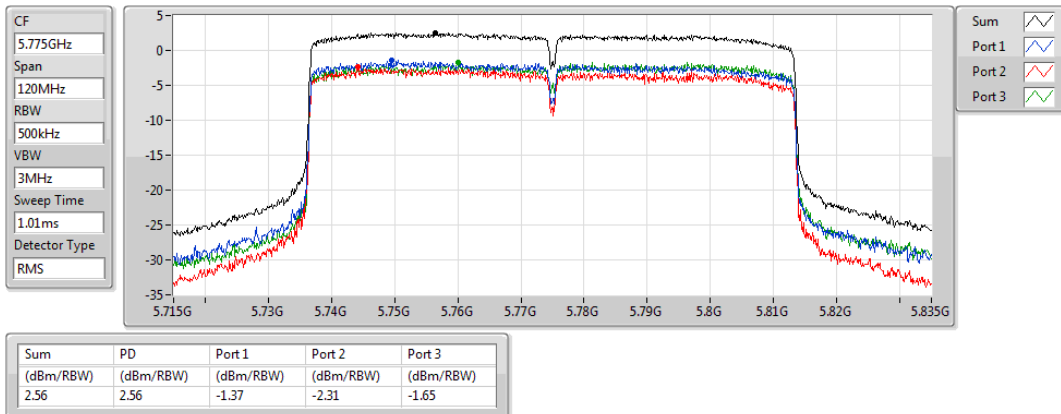


802.11ac VHT80_Nss1,(MCS0)_3TX

PSD

5775MHz

15/01/2019



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	QP	299.66M	42.15	46.00	-3.85	-5.86	3	Horizontal	206	1.00	-

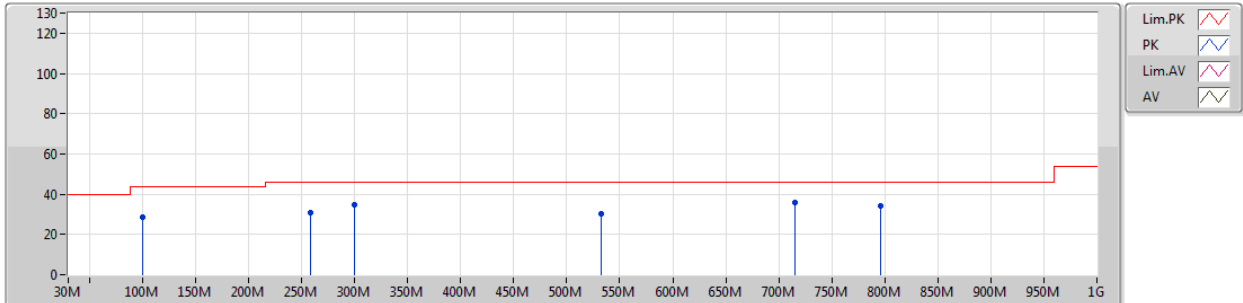
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	99.84M	28.49	43.50	-15.01	-10.24	3	Vertical	0	1.00	-
5775MHz	Pass	PK	258.92M	31.02	46.00	-14.98	-5.89	3	Vertical	0	1.00	-
5775MHz	Pass	PK	299.66M	34.85	46.00	-11.15	-5.86	3	Vertical	0	1.00	-
5775MHz	Pass	PK	532.46M	30.22	46.00	-15.78	-1.73	3	Vertical	0	1.00	-
5775MHz	Pass	PK	714.82M	35.59	46.00	-10.41	0.11	3	Vertical	0	1.00	-
5775MHz	Pass	PK	796.3M	34.36	46.00	-11.64	1.20	3	Vertical	0	1.00	-
5775MHz	Pass	PK	99.84M	33.89	43.50	-9.61	-10.24	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	210.42M	37.38	43.50	-6.12	-10.53	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	400.54M	28.40	46.00	-17.60	-3.78	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	534.4M	29.39	46.00	-16.61	-1.63	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	798.24M	38.07	46.00	-7.93	1.20	3	Horizontal	360	1.00	-
5775MHz	Pass	QP	299.66M	42.15	46.00	-3.85	-5.86	3	Horizontal	206	1.00	-

802.11ac VHT80_Nss1,(MCS0)_3TX

24/01/2019

5775MHz_TX

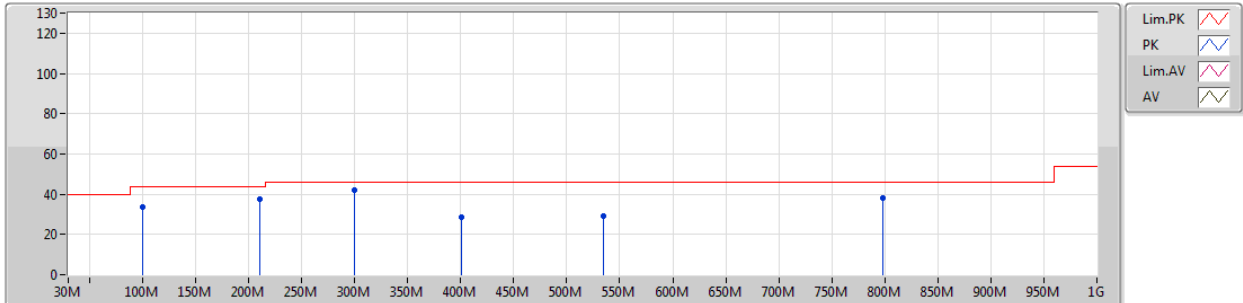


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	99.84M	28.49	43.50	-15.01	-10.24	3	Vertical	0	1.00	-
PK	258.92M	31.02	46.00	-14.98	-5.89	3	Vertical	0	1.00	-
PK	299.66M	34.85	46.00	-11.15	-5.86	3	Vertical	0	1.00	-
PK	532.46M	30.22	46.00	-15.78	-1.73	3	Vertical	0	1.00	-
PK	714.82M	35.59	46.00	-10.41	0.11	3	Vertical	0	1.00	-
PK	796.3M	34.36	46.00	-11.64	1.20	3	Vertical	0	1.00	-

802.11ac VHT80_Nss1,(MCS0)_3TX

24/01/2019

5775MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	99.84M	33.89	43.50	-9.61	-10.24	3	Horizontal	360	1.00	-
PK	210.42M	37.38	43.50	-6.12	-10.53	3	Horizontal	360	1.00	-
PK	400.54M	28.40	46.00	-17.60	-3.78	3	Horizontal	360	1.00	-
PK	534.4M	29.39	46.00	-16.61	-1.63	3	Horizontal	360	1.00	-
PK	798.24M	38.07	46.00	-7.93	1.20	3	Horizontal	360	1.00	-
QP	299.66M	42.15	46.00	-3.85	-5.86	3	Horizontal	206	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	AV	5.1472G	53.90	54.00	-0.10	2.74	3	Vertical	131	1.50	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	AV	5.1452G	53.62	54.00	-0.38	2.74	3	Vertical	247	1.97	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	AV	5.15G	53.80	54.00	-0.20	2.74	3	Vertical	94	1.60	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	AV	5.15G	53.74	54.00	-0.26	2.74	3	Vertical	229	1.82	-
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	AV	5.3512G	53.61	54.00	-0.39	2.97	3	Vertical	263	1.90	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	PK	5.3524G	73.88	74.00	-0.12	2.97	3	Vertical	221	1.86	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	AV	5.3508G	52.85	54.00	-1.15	2.97	3	Vertical	51	1.98	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	AV	5.35G	53.36	54.00	-0.64	2.97	3	Vertical	229	1.83	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	PK	5.4688G	67.79	68.20	-0.41	3.11	3	Vertical	261	1.91	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	PK	5.4698G	67.75	68.20	-0.45	3.11	3	Vertical	183	1.83	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	PK	5.4696G	68.12	68.20	-0.08	3.11	3	Vertical	237	1.70	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	PK	5.467G	68.05	68.20	-0.15	3.11	3	Vertical	228	1.91	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	AV	11.6481G	50.60	54.00	-3.40	13.43	3	Vertical	166	2.14	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	AV	11.64538G	49.13	54.00	-4.87	13.44	3	Vertical	154	2.58	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	PK	5.6566G	72.74	73.08	-0.34	3.45	3	Vertical	234	1.88	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	PK	5.6514G	68.58	69.24	-0.66	3.44	3	Vertical	228	1.72	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	53.55	54.00	-0.45	2.74	3	Vertical	69	1.85	-
5180MHz	Pass	AV	5.181G	106.57	Inf	-Inf	2.78	3	Vertical	69	1.85	-
5180MHz	Pass	PK	5.1498G	65.45	74.00	-8.55	2.74	3	Vertical	69	1.85	-
5180MHz	Pass	PK	5.1812G	116.58	Inf	-Inf	2.78	3	Vertical	69	1.85	-
5180MHz	Pass	AV	10.3555G	41.41	54.00	-12.59	12.63	3	Vertical	43	1.34	-
5180MHz	Pass	PK	10.35496G	54.89	74.00	-19.11	12.63	3	Vertical	43	1.34	-
5180MHz	Pass	AV	10.36438G	39.74	54.00	-14.26	12.64	3	Horizontal	209	2.95	-
5180MHz	Pass	PK	10.34962G	52.68	74.00	-21.32	12.61	3	Horizontal	209	2.95	-
5200MHz	Pass	AV	5.1472G	53.90	54.00	-0.10	2.74	3	Vertical	131	1.50	-
5200MHz	Pass	AV	5.2068G	108.93	Inf	-Inf	2.80	3	Vertical	131	1.50	-
5200MHz	Pass	PK	5.1468G	71.99	74.00	-2.01	2.74	3	Vertical	131	1.50	-
5200MHz	Pass	PK	5.2068G	119.08	Inf	-Inf	2.80	3	Vertical	131	1.50	-
5200MHz	Pass	AV	10.39964G	47.87	54.00	-6.13	12.73	3	Vertical	220	1.70	-
5200MHz	Pass	PK	10.39958G	62.15	74.00	-11.85	12.73	3	Vertical	220	1.70	-
5200MHz	Pass	AV	10.40216G	43.78	54.00	-10.22	12.73	3	Horizontal	134	1.42	-
5200MHz	Pass	PK	10.40312G	56.95	74.00	-17.05	12.73	3	Horizontal	134	1.42	-
5240MHz	Pass	AV	5.144G	49.11	54.00	-4.89	2.74	3	Vertical	243	1.79	-
5240MHz	Pass	AV	5.2448G	110.88	Inf	-Inf	2.85	3	Vertical	243	1.79	-
5240MHz	Pass	AV	5.35G	48.18	54.00	-5.82	2.97	3	Vertical	243	1.79	-
5240MHz	Pass	PK	5.1494G	65.23	74.00	-8.77	2.74	3	Vertical	243	1.79	-
5240MHz	Pass	PK	5.2346G	121.64	Inf	-Inf	2.83	3	Vertical	243	1.79	-
5240MHz	Pass	PK	5.3606G	62.66	74.00	-11.34	2.98	3	Vertical	243	1.79	-
5240MHz	Pass	AV	10.4795G	50.10	54.00	-3.90	12.90	3	Vertical	210	1.56	-
5240MHz	Pass	PK	10.4794G	63.18	74.00	-10.82	12.90	3	Vertical	210	1.56	-
5240MHz	Pass	AV	10.4829G	49.86	54.00	-4.14	12.91	3	Horizontal	279	1.00	-
5240MHz	Pass	PK	10.4829G	63.43	74.00	-10.57	12.91	3	Horizontal	279	1.00	-
5260MHz	Pass	AV	5.1472G	47.20	54.00	-6.80	2.74	3	Vertical	241	1.50	-
5260MHz	Pass	AV	5.2576G	109.58	Inf	-Inf	2.86	3	Vertical	241	1.50	-
5260MHz	Pass	AV	5.3578G	48.40	54.00	-5.60	2.97	3	Vertical	241	1.50	-
5260MHz	Pass	PK	5.1496G	61.10	74.00	-12.90	2.74	3	Vertical	241	1.50	-
5260MHz	Pass	PK	5.2678G	120.48	Inf	-Inf	2.88	3	Vertical	241	1.50	-
5260MHz	Pass	PK	5.3668G	63.25	74.00	-10.75	2.99	3	Vertical	241	1.50	-
5260MHz	Pass	AV	10.5193G	50.54	54.00	-3.46	12.98	3	Vertical	209	1.60	-
5260MHz	Pass	PK	10.5192G	64.93	74.00	-9.07	12.98	3	Vertical	209	1.60	-
5260MHz	Pass	AV	10.5227G	50.44	54.00	-3.56	12.98	3	Horizontal	278	1.00	-
5260MHz	Pass	PK	10.5223G	64.21	74.00	-9.79	12.98	3	Horizontal	278	1.00	-
5300MHz	Pass	AV	5.3012G	109.28	Inf	-Inf	2.91	3	Vertical	271	1.78	-
5300MHz	Pass	AV	5.3512G	53.53	54.00	-0.47	2.97	3	Vertical	271	1.78	-
5300MHz	Pass	PK	5.3008G	120.01	Inf	-Inf	2.91	3	Vertical	271	1.78	-
5300MHz	Pass	PK	5.3512G	69.56	74.00	-4.44	2.97	3	Vertical	271	1.78	-
5300MHz	Pass	AV	10.5981G	46.19	54.00	-7.81	13.15	3	Vertical	129	1.48	-
5300MHz	Pass	PK	10.6071G	59.39	74.00	-14.61	13.17	3	Vertical	129	1.48	-
5300MHz	Pass	AV	10.6021G	48.05	54.00	-5.95	13.16	3	Horizontal	276	1.01	-
5300MHz	Pass	PK	10.5931G	61.21	74.00	-12.79	13.14	3	Horizontal	276	1.01	-
5320MHz	Pass	AV	5.322G	108.47	Inf	-Inf	2.94	3	Vertical	263	1.90	-
5320MHz	Pass	AV	5.3512G	53.61	54.00	-0.39	2.97	3	Vertical	263	1.90	-
5320MHz	Pass	PK	5.3124G	117.94	Inf	-Inf	2.93	3	Vertical	263	1.90	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	PK	5.3512G	70.06	74.00	-3.94	2.97	3	Vertical	263	1.90	-
5320MHz	Pass	AV	10.6387G	40.46	54.00	-13.54	13.24	3	Vertical	127	1.49	-
5320MHz	Pass	PK	10.6613G	53.63	74.00	-20.37	13.29	3	Vertical	127	1.49	-
5320MHz	Pass	AV	10.6167G	39.83	54.00	-14.17	13.19	3	Horizontal	47	1.50	-
5320MHz	Pass	PK	10.6345G	53.55	74.00	-20.45	13.24	3	Horizontal	47	1.50	-
5500MHz	Pass	AV	5.458G	49.75	54.00	-4.25	3.09	3	Vertical	261	1.91	-
5500MHz	Pass	AV	5.4984G	107.07	Inf	-Inf	3.14	3	Vertical	261	1.91	-
5500MHz	Pass	PK	5.4688G	67.79	68.20	-0.41	3.11	3	Vertical	261	1.91	-
5500MHz	Pass	PK	5.498G	117.20	Inf	-Inf	3.14	3	Vertical	261	1.91	-
5500MHz	Pass	AV	11.0009G	41.40	54.00	-12.60	14.03	3	Vertical	23	1.70	-
5500MHz	Pass	PK	11.0016G	55.10	74.00	-18.90	14.03	3	Vertical	23	1.70	-
5500MHz	Pass	AV	10.9905G	41.27	54.00	-12.73	14.01	3	Horizontal	223	1.48	-
5500MHz	Pass	PK	11.0204G	54.39	74.00	-19.61	14.01	3	Horizontal	223	1.48	-
5580MHz	Pass	AV	5.4306G	47.67	54.00	-6.33	3.06	3	Vertical	0	1.94	-
5580MHz	Pass	AV	5.5788G	106.31	Inf	-Inf	3.30	3	Vertical	0	1.94	-
5580MHz	Pass	PK	5.4612G	60.23	68.20	-7.97	3.10	3	Vertical	0	1.94	-
5580MHz	Pass	PK	5.5782G	116.20	Inf	-Inf	3.29	3	Vertical	0	1.94	-
5580MHz	Pass	PK	5.73G	56.62	68.20	-11.58	3.59	3	Vertical	0	1.94	-
5580MHz	Pass	AV	11.16G	50.70	54.00	-3.30	13.89	3	Vertical	74	2.42	-
5580MHz	Pass	PK	11.1707G	64.20	74.00	-9.80	13.87	3	Vertical	74	2.42	-
5580MHz	Pass	AV	11.1592G	45.20	54.00	-8.80	13.89	3	Horizontal	237	1.00	-
5580MHz	Pass	PK	11.1591G	58.93	74.00	-15.07	13.89	3	Horizontal	237	1.00	-
5700MHz	Pass	AV	5.7052G	99.41	Inf	-Inf	3.55	3	Vertical	279	1.08	-
5700MHz	Pass	PK	5.7044G	109.64	Inf	-Inf	3.55	3	Vertical	279	1.08	-
5700MHz	Pass	PK	5.7252G	67.59	68.20	-0.61	3.59	3	Vertical	279	1.08	-
5700MHz	Pass	AV	11.3989G	40.55	54.00	-13.45	13.66	3	Vertical	119	1.98	-
5700MHz	Pass	PK	11.381G	53.53	74.00	-20.47	13.69	3	Vertical	119	1.98	-
5700MHz	Pass	AV	11.4044G	40.46	54.00	-13.54	13.65	3	Horizontal	251	1.38	-
5700MHz	Pass	PK	11.3846G	53.56	74.00	-20.44	13.68	3	Horizontal	251	1.38	-
5745MHz	Pass	AV	5.7462G	110.19	Inf	-Inf	3.62	3	Vertical	259	1.77	-
5745MHz	Pass	PK	5.4822G	62.48	68.20	-5.72	3.12	3	Vertical	259	1.77	-
5745MHz	Pass	PK	5.745G	120.60	Inf	-Inf	3.62	3	Vertical	259	1.77	-
5745MHz	Pass	PK	5.9706G	58.70	68.20	-9.50	4.07	3	Vertical	259	1.77	-
5745MHz	Pass	AV	11.4932G	47.66	54.00	-6.34	13.58	3	Vertical	253	2.72	-
5745MHz	Pass	PK	11.4928G	61.03	74.00	-12.97	13.58	3	Vertical	253	2.72	-
5745MHz	Pass	AV	11.4929G	43.87	54.00	-10.13	13.58	3	Horizontal	326	2.53	-
5745MHz	Pass	PK	11.4927G	55.83	74.00	-18.17	13.58	3	Horizontal	326	2.53	-
5785MHz	Pass	AV	5.7838G	109.08	Inf	-Inf	3.70	3	Vertical	253	1.75	-
5785MHz	Pass	PK	5.497G	60.43	68.20	-7.77	3.14	3	Vertical	253	1.75	-
5785MHz	Pass	PK	5.7838G	118.14	Inf	-Inf	3.70	3	Vertical	253	1.75	-
5785MHz	Pass	PK	5.9626G	56.61	68.20	-11.59	4.05	3	Vertical	253	1.75	-
5785MHz	Pass	AV	11.5726G	48.15	54.00	-5.85	13.51	3	Vertical	247	2.89	-
5785MHz	Pass	PK	11.5724G	61.86	74.00	-12.14	13.51	3	Vertical	247	2.89	-
5785MHz	Pass	AV	11.5744G	47.87	54.00	-6.13	13.51	3	Horizontal	299	2.16	-
5785MHz	Pass	PK	11.5653G	62.44	74.00	-11.56	13.51	3	Horizontal	299	2.16	-
5825MHz	Pass	AV	5.8202G	108.28	Inf	-Inf	3.77	3	Vertical	227	1.67	-
5825MHz	Pass	PK	5.5286G	59.31	68.20	-8.89	3.20	3	Vertical	227	1.67	-
5825MHz	Pass	PK	5.831G	118.26	Inf	-Inf	3.79	3	Vertical	227	1.67	-
5825MHz	Pass	PK	5.9762G	56.87	68.20	-11.33	4.08	3	Vertical	227	1.67	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	AV	11.6481G	50.60	54.00	-3.40	13.43	3	Vertical	166	2.14	-
5825MHz	Pass	PK	11.6485G	63.41	74.00	-10.59	13.43	3	Vertical	166	2.14	-
5825MHz	Pass	AV	11.6487G	47.03	54.00	-6.97	13.43	3	Horizontal	186	1.01	-
5825MHz	Pass	PK	11.6483G	61.01	74.00	-12.99	13.43	3	Horizontal	186	1.01	-
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	53.25	54.00	-0.75	2.74	3	Vertical	245	1.94	-
5180MHz	Pass	AV	5.1734G	105.52	Inf	-Inf	2.76	3	Vertical	245	1.94	-
5180MHz	Pass	PK	5.1496G	68.65	74.00	-5.35	2.74	3	Vertical	245	1.94	-
5180MHz	Pass	PK	5.1736G	115.90	Inf	-Inf	2.76	3	Vertical	245	1.94	-
5180MHz	Pass	AV	10.3608G	41.68	54.00	-12.32	12.64	3	Vertical	196	1.55	-
5180MHz	Pass	PK	10.3597G	54.39	74.00	-19.61	12.63	3	Vertical	196	1.55	-
5180MHz	Pass	AV	10.3598G	39.83	54.00	-14.17	12.63	3	Horizontal	359	2.47	-
5180MHz	Pass	PK	10.3396G	53.19	74.00	-20.81	12.60	3	Horizontal	359	2.47	-
5200MHz	Pass	AV	5.1452G	53.62	54.00	-0.38	2.74	3	Vertical	247	1.97	-
5200MHz	Pass	AV	5.194G	109.87	Inf	-Inf	2.80	3	Vertical	247	1.97	-
5200MHz	Pass	PK	5.1456G	71.60	74.00	-2.40	2.74	3	Vertical	247	1.97	-
5200MHz	Pass	PK	5.1948G	120.31	Inf	-Inf	2.80	3	Vertical	247	1.97	-
5200MHz	Pass	AV	10.3994G	48.65	54.00	-5.35	12.73	3	Vertical	196	1.50	-
5200MHz	Pass	PK	10.4004G	62.87	74.00	-11.13	12.73	3	Vertical	196	1.50	-
5200MHz	Pass	AV	10.4028G	43.21	54.00	-10.79	12.73	3	Horizontal	109	1.44	-
5200MHz	Pass	PK	10.403G	56.43	74.00	-17.57	12.73	3	Horizontal	109	1.44	-
5240MHz	Pass	AV	5.1476G	48.84	54.00	-5.16	2.74	3	Vertical	96	1.73	-
5240MHz	Pass	AV	5.2472G	109.25	Inf	-Inf	2.85	3	Vertical	96	1.73	-
5240MHz	Pass	AV	5.3504G	47.79	54.00	-6.21	2.97	3	Vertical	96	1.73	-
5240MHz	Pass	PK	5.15G	63.27	74.00	-10.73	2.74	3	Vertical	96	1.73	-
5240MHz	Pass	PK	5.2484G	119.35	Inf	-Inf	2.85	3	Vertical	96	1.73	-
5240MHz	Pass	PK	5.3624G	59.98	74.00	-14.02	2.98	3	Vertical	96	1.73	-
5240MHz	Pass	AV	10.48G	50.16	54.00	-3.84	12.90	3	Vertical	197	1.51	-
5240MHz	Pass	PK	10.4794G	62.58	74.00	-11.42	12.90	3	Vertical	197	1.51	-
5240MHz	Pass	AV	10.4854G	49.76	54.00	-4.24	12.91	3	Horizontal	262	1.00	-
5240MHz	Pass	PK	10.4844G	63.98	74.00	-10.02	12.91	3	Horizontal	262	1.00	-
5260MHz	Pass	AV	5.15G	47.25	54.00	-6.75	2.74	3	Vertical	246	1.72	-
5260MHz	Pass	AV	5.254G	110.66	Inf	-Inf	2.86	3	Vertical	246	1.72	-
5260MHz	Pass	AV	5.353G	50.18	54.00	-3.82	2.97	3	Vertical	246	1.72	-
5260MHz	Pass	PK	5.1436G	60.53	74.00	-13.47	2.74	3	Vertical	246	1.72	-
5260MHz	Pass	PK	5.2528G	122.06	Inf	-Inf	2.86	3	Vertical	246	1.72	-
5260MHz	Pass	PK	5.3512G	66.08	74.00	-7.92	2.97	3	Vertical	246	1.72	-
5260MHz	Pass	AV	10.5197G	48.44	54.00	-5.56	12.98	3	Vertical	159	1.52	-
5260MHz	Pass	PK	10.5191G	61.43	74.00	-12.57	12.98	3	Vertical	159	1.52	-
5260MHz	Pass	AV	10.5184G	44.12	54.00	-9.88	12.98	3	Horizontal	110	1.52	-
5260MHz	Pass	PK	10.5192G	57.04	74.00	-16.96	12.98	3	Horizontal	110	1.52	-
5300MHz	Pass	AV	5.2928G	108.55	Inf	-Inf	2.90	3	Vertical	221	1.86	-
5300MHz	Pass	AV	5.3504G	53.83	54.00	-0.17	2.97	3	Vertical	221	1.86	-
5300MHz	Pass	PK	5.2924G	119.47	Inf	-Inf	2.90	3	Vertical	221	1.86	-
5300MHz	Pass	PK	5.3524G	73.88	74.00	-0.12	2.97	3	Vertical	221	1.86	-
5300MHz	Pass	AV	10.5987G	46.87	54.00	-7.13	13.15	3	Vertical	161	1.47	-
5300MHz	Pass	PK	10.597G	60.65	74.00	-13.35	13.15	3	Vertical	161	1.47	-
5300MHz	Pass	AV	10.6028G	48.32	54.00	-5.68	13.16	3	Horizontal	261	1.01	-
5300MHz	Pass	PK	10.6047G	61.57	74.00	-12.43	13.17	3	Horizontal	261	1.01	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	AV	5.3154G	107.87	Inf	-Inf	2.93	3	Vertical	215	1.76	-
5320MHz	Pass	AV	5.3516G	53.60	54.00	-0.40	2.97	3	Vertical	215	1.76	-
5320MHz	Pass	PK	5.315G	117.73	Inf	-Inf	2.93	3	Vertical	215	1.76	-
5320MHz	Pass	PK	5.3524G	67.55	74.00	-6.45	2.97	3	Vertical	215	1.76	-
5320MHz	Pass	AV	10.6402G	41.42	54.00	-12.58	13.25	3	Vertical	160	1.57	-
5320MHz	Pass	PK	10.6363G	53.78	74.00	-20.22	13.24	3	Vertical	160	1.57	-
5320MHz	Pass	AV	10.6578G	40.36	54.00	-13.64	13.28	3	Horizontal	185	1.50	-
5320MHz	Pass	PK	10.6531G	53.44	74.00	-20.56	13.27	3	Horizontal	185	1.50	-
5500MHz	Pass	AV	5.4596G	49.88	54.00	-4.12	3.10	3	Vertical	183	1.83	-
5500MHz	Pass	AV	5.5076G	106.46	Inf	-Inf	3.16	3	Vertical	183	1.83	-
5500MHz	Pass	PK	5.4698G	67.75	68.20	-0.45	3.11	3	Vertical	183	1.83	-
5500MHz	Pass	PK	5.5062G	115.90	Inf	-Inf	3.15	3	Vertical	183	1.83	-
5500MHz	Pass	AV	10.98746G	41.02	54.00	-12.98	14.00	3	Vertical	49	1.67	-
5500MHz	Pass	PK	10.98608G	53.85	74.00	-20.15	14.00	3	Vertical	49	1.67	-
5500MHz	Pass	AV	10.99574G	40.97	54.00	-13.03	14.02	3	Horizontal	40	1.50	-
5500MHz	Pass	PK	10.9865G	54.46	74.00	-19.54	14.00	3	Horizontal	40	1.50	-
5580MHz	Pass	AV	5.433G	50.47	54.00	-3.53	3.06	3	Vertical	236	1.87	-
5580MHz	Pass	AV	5.586G	110.86	Inf	-Inf	3.31	3	Vertical	236	1.87	-
5580MHz	Pass	PK	5.4624G	62.32	68.20	-5.88	3.10	3	Vertical	236	1.87	-
5580MHz	Pass	PK	5.5848G	121.46	Inf	-Inf	3.31	3	Vertical	236	1.87	-
5580MHz	Pass	PK	5.7294G	58.92	68.20	-9.28	3.59	3	Vertical	236	1.87	-
5580MHz	Pass	AV	11.16G	50.46	54.00	-3.54	13.89	3	Vertical	49	2.43	-
5580MHz	Pass	PK	11.16078G	63.72	74.00	-10.28	13.88	3	Vertical	49	2.43	-
5580MHz	Pass	AV	11.15856G	42.65	54.00	-11.35	13.89	3	Horizontal	330	1.35	-
5580MHz	Pass	PK	11.15874G	55.50	74.00	-18.50	13.89	3	Horizontal	330	1.35	-
5700MHz	Pass	AV	5.692G	106.34	Inf	-Inf	3.52	3	Vertical	244	1.67	-
5700MHz	Pass	PK	5.692G	115.75	Inf	-Inf	3.52	3	Vertical	244	1.67	-
5700MHz	Pass	PK	5.7316G	67.73	68.20	-0.47	3.59	3	Vertical	244	1.67	-
5700MHz	Pass	AV	11.39952G	40.78	54.00	-13.22	13.66	3	Vertical	218	2.72	-
5700MHz	Pass	PK	11.40168G	54.40	74.00	-19.60	13.66	3	Vertical	218	2.72	-
5700MHz	Pass	AV	11.40348G	40.22	54.00	-13.78	13.66	3	Horizontal	263	1.15	-
5700MHz	Pass	PK	11.39106G	53.74	74.00	-20.26	13.66	3	Horizontal	263	1.15	-
5745MHz	Pass	AV	5.7402G	110.45	Inf	-Inf	3.62	3	Vertical	243	1.86	-
5745MHz	Pass	PK	5.4666G	62.34	68.20	-5.86	3.11	3	Vertical	243	1.86	-
5745MHz	Pass	PK	5.7402G	120.58	Inf	-Inf	3.62	3	Vertical	243	1.86	-
5745MHz	Pass	PK	5.9838G	57.85	68.20	-10.35	4.10	3	Vertical	243	1.86	-
5745MHz	Pass	AV	11.4915G	44.21	54.00	-9.79	13.58	3	Vertical	330	2.66	-
5745MHz	Pass	PK	11.4942G	58.34	74.00	-15.66	13.58	3	Vertical	330	2.66	-
5745MHz	Pass	AV	11.49594G	42.85	54.00	-11.15	13.58	3	Horizontal	336	2.99	-
5745MHz	Pass	PK	11.49762G	56.61	74.00	-17.39	13.57	3	Horizontal	336	2.99	-
5785MHz	Pass	AV	5.779G	109.36	Inf	-Inf	3.69	3	Vertical	240	1.74	-
5785MHz	Pass	PK	5.5162G	60.73	68.20	-7.47	3.17	3	Vertical	240	1.74	-
5785MHz	Pass	PK	5.779G	119.11	Inf	-Inf	3.69	3	Vertical	240	1.74	-
5785MHz	Pass	PK	5.9374G	58.56	68.20	-9.64	4.01	3	Vertical	240	1.74	-
5785MHz	Pass	AV	11.57666G	48.39	54.00	-5.61	13.50	3	Vertical	182	2.90	-
5785MHz	Pass	PK	11.57654G	62.19	74.00	-11.81	13.50	3	Vertical	182	2.90	-
5785MHz	Pass	AV	11.56652G	47.71	54.00	-6.29	13.51	3	Horizontal	171	1.00	-
5785MHz	Pass	PK	11.56652G	62.90	74.00	-11.10	13.51	3	Horizontal	171	1.00	-
5825MHz	Pass	AV	5.831G	108.55	Inf	-Inf	3.79	3	Vertical	234	1.83	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.5466G	59.75	68.20	-8.45	3.24	3	Vertical	234	1.83	-
5825MHz	Pass	PK	5.8322G	118.27	Inf	-Inf	3.80	3	Vertical	234	1.83	-
5825MHz	Pass	PK	5.9882G	57.19	68.20	-11.01	4.10	3	Vertical	234	1.83	-
5825MHz	Pass	AV	11.64538G	49.13	54.00	-4.87	13.44	3	Vertical	154	2.58	-
5825MHz	Pass	PK	11.64658G	63.32	74.00	-10.68	13.43	3	Vertical	154	2.58	-
5825MHz	Pass	AV	11.64736G	46.62	54.00	-7.38	13.43	3	Horizontal	173	2.16	-
5825MHz	Pass	PK	11.64688G	60.12	74.00	-13.88	13.43	3	Horizontal	173	2.16	-
802.11ac VHT40_Nss1(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	53.80	54.00	-0.20	2.74	3	Vertical	94	1.60	-
5190MHz	Pass	AV	5.1912G	97.94	Inf	-Inf	2.78	3	Vertical	94	1.60	-
5190MHz	Pass	PK	5.1496G	68.39	74.00	-5.61	2.74	3	Vertical	94	1.60	-
5190MHz	Pass	PK	5.192G	107.47	Inf	-Inf	2.79	3	Vertical	94	1.60	-
5190MHz	Pass	AV	10.39308G	39.87	54.00	-14.13	12.71	3	Vertical	1	1.81	-
5190MHz	Pass	PK	10.37952G	53.06	74.00	-20.94	12.67	3	Vertical	1	1.81	-
5190MHz	Pass	AV	10.39284G	39.85	54.00	-14.15	12.70	3	Horizontal	305	1.50	-
5190MHz	Pass	PK	10.38258G	53.16	74.00	-20.84	12.68	3	Horizontal	305	1.50	-
5230MHz	Pass	AV	5.15G	53.64	54.00	-0.36	2.74	3	Vertical	52	1.50	-
5230MHz	Pass	AV	5.2312G	105.33	Inf	-Inf	2.83	3	Vertical	52	1.50	-
5230MHz	Pass	PK	5.15G	67.57	74.00	-6.43	2.74	3	Vertical	52	1.50	-
5230MHz	Pass	PK	5.2312G	115.17	Inf	-Inf	2.83	3	Vertical	52	1.50	-
5230MHz	Pass	AV	10.45616G	43.61	54.00	-10.39	12.84	3	Vertical	184	1.63	-
5230MHz	Pass	PK	10.45862G	56.63	74.00	-17.37	12.84	3	Vertical	184	1.63	-
5230MHz	Pass	AV	10.4579G	40.78	54.00	-13.22	12.84	3	Horizontal	98	1.50	-
5230MHz	Pass	PK	10.45454G	53.87	74.00	-20.13	12.84	3	Horizontal	98	1.50	-
5270MHz	Pass	AV	5.2716G	105.67	Inf	-Inf	2.88	3	Vertical	95	1.77	-
5270MHz	Pass	AV	5.3504G	51.89	54.00	-2.11	2.97	3	Vertical	95	1.77	-
5270MHz	Pass	PK	5.272G	115.31	Inf	-Inf	2.88	3	Vertical	95	1.77	-
5270MHz	Pass	PK	5.3516G	65.10	74.00	-8.90	2.97	3	Vertical	95	1.77	-
5270MHz	Pass	AV	10.61022G	39.99	54.00	-14.01	13.18	3	Vertical	159	1.90	-
5270MHz	Pass	PK	10.608G	53.15	74.00	-20.85	13.18	3	Vertical	159	1.90	-
5270MHz	Pass	AV	10.60644G	39.95	54.00	-14.05	13.17	3	Horizontal	202	1.50	-
5270MHz	Pass	PK	10.61346G	53.57	74.00	-20.43	13.19	3	Horizontal	202	1.50	-
5310MHz	Pass	AV	5.312G	99.20	Inf	-Inf	2.93	3	Vertical	51	1.98	-
5310MHz	Pass	AV	5.3508G	52.85	54.00	-1.15	2.97	3	Vertical	51	1.98	-
5310MHz	Pass	PK	5.3136G	108.93	Inf	-Inf	2.93	3	Vertical	51	1.98	-
5310MHz	Pass	PK	5.3516G	67.12	74.00	-6.88	2.97	3	Vertical	51	1.98	-
5310MHz	Pass	AV	10.6068G	39.97	54.00	-14.03	13.17	3	Vertical	41	1.50	-
5310MHz	Pass	PK	10.61262G	53.24	74.00	-20.76	13.19	3	Vertical	41	1.50	-
5310MHz	Pass	AV	10.61514G	39.94	54.00	-14.06	13.19	3	Horizontal	67	1.50	-
5310MHz	Pass	PK	10.6332G	53.14	74.00	-20.86	13.24	3	Horizontal	67	1.50	-
5510MHz	Pass	AV	5.46G	46.30	54.00	-7.70	3.10	3	Vertical	237	1.70	-
5510MHz	Pass	AV	5.5116G	98.51	Inf	-Inf	3.17	3	Vertical	237	1.70	-
5510MHz	Pass	PK	5.4596G	59.26	74.00	-14.74	3.10	3	Vertical	237	1.70	-
5510MHz	Pass	PK	5.4696G	68.12	68.20	-0.08	3.11	3	Vertical	237	1.70	-
5510MHz	Pass	PK	5.5112G	107.91	Inf	-Inf	3.17	3	Vertical	237	1.70	-
5510MHz	Pass	AV	11.0239G	40.56	54.00	-13.44	14.01	3	Vertical	147	1.50	-
5510MHz	Pass	PK	11.02G	54.15	74.00	-19.85	14.01	3	Vertical	147	1.50	-
5510MHz	Pass	AV	11.03284G	39.87	54.00	-14.13	14.00	3	Horizontal	255	1.32	-
5510MHz	Pass	PK	11.01394G	54.69	74.00	-19.31	14.02	3	Horizontal	255	1.32	-



RSE TX above 1GHz Result

Appendix E.2

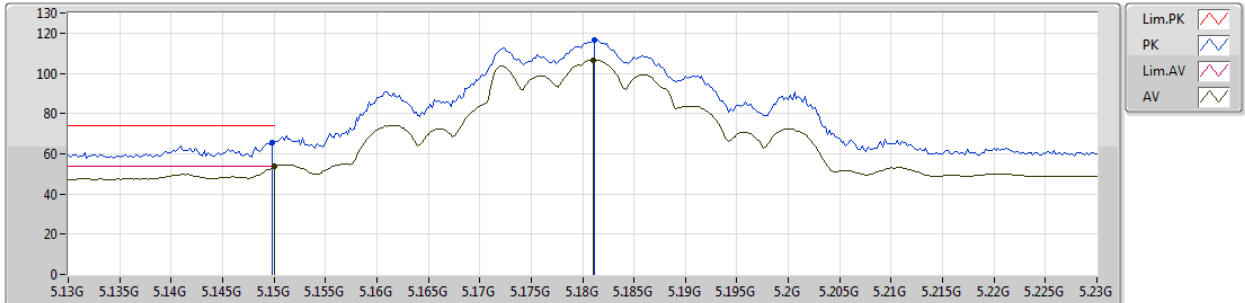
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5550MHz	Pass	AV	5.4504G	52.61	54.00	-1.39	3.09	3	Vertical	233	1.80	-
5550MHz	Pass	AV	5.548G	106.01	Inf	-Inf	3.24	3	Vertical	233	1.80	-
5550MHz	Pass	PK	5.4504G	64.65	74.00	-9.35	3.09	3	Vertical	233	1.80	-
5550MHz	Pass	PK	5.468G	67.74	68.20	-0.46	3.11	3	Vertical	233	1.80	-
5550MHz	Pass	PK	5.5468G	115.81	Inf	-Inf	3.24	3	Vertical	233	1.80	-
5550MHz	Pass	AV	11.08692G	42.01	54.00	-11.99	13.95	3	Vertical	314	1.65	-
5550MHz	Pass	PK	11.1108G	54.78	74.00	-19.22	13.92	3	Vertical	314	1.65	-
5550MHz	Pass	AV	11.10972G	41.08	54.00	-12.92	13.93	3	Horizontal	241	2.66	-
5550MHz	Pass	PK	11.11242G	54.57	74.00	-19.43	13.92	3	Horizontal	241	2.66	-
5670MHz	Pass	AV	5.6712G	104.47	Inf	-Inf	3.48	3	Vertical	230	1.76	-
5670MHz	Pass	PK	5.6718G	113.28	Inf	-Inf	3.48	3	Vertical	230	1.76	-
5670MHz	Pass	PK	5.73G	67.95	68.20	-0.25	3.59	3	Vertical	230	1.76	-
5670MHz	Pass	AV	11.34534G	40.32	54.00	-13.68	13.72	3	Vertical	287	1.50	-
5670MHz	Pass	PK	11.32542G	53.86	74.00	-20.14	13.73	3	Vertical	287	1.50	-
5670MHz	Pass	AV	11.35296G	40.27	54.00	-13.73	13.71	3	Horizontal	296	2.73	-
5670MHz	Pass	PK	11.35344G	53.96	74.00	-20.04	13.71	3	Horizontal	296	2.73	-
5755MHz	Pass	AV	5.7586G	107.57	Inf	-Inf	3.65	3	Vertical	234	1.88	-
5755MHz	Pass	PK	5.6566G	72.74	73.08	-0.34	3.45	3	Vertical	234	1.88	-
5755MHz	Pass	PK	5.7586G	117.80	Inf	-Inf	3.65	3	Vertical	234	1.88	-
5755MHz	Pass	PK	5.9386G	59.93	68.20	-8.27	4.01	3	Vertical	234	1.88	-
5755MHz	Pass	AV	11.5145G	46.13	54.00	-7.87	13.55	3	Vertical	139	2.98	-
5755MHz	Pass	PK	11.51414G	59.23	74.00	-14.77	13.55	3	Vertical	139	2.98	-
5755MHz	Pass	AV	11.51612G	42.13	54.00	-11.87	13.55	3	Horizontal	342	2.99	-
5755MHz	Pass	PK	11.5172G	54.36	74.00	-19.64	13.55	3	Horizontal	342	2.99	-
5795MHz	Pass	AV	5.7914G	106.85	Inf	-Inf	3.71	3	Vertical	229	1.87	-
5795MHz	Pass	PK	5.6462G	62.38	68.20	-5.82	3.43	3	Vertical	229	1.87	-
5795MHz	Pass	PK	5.7914G	116.92	Inf	-Inf	3.71	3	Vertical	229	1.87	-
5795MHz	Pass	PK	5.9342G	64.29	68.20	-3.91	4.00	3	Vertical	229	1.87	-
5795MHz	Pass	AV	11.58652G	47.71	54.00	-6.29	13.49	3	Vertical	147	2.87	-
5795MHz	Pass	PK	11.58646G	60.75	74.00	-13.25	13.49	3	Vertical	147	2.87	-
5795MHz	Pass	AV	11.58538G	46.32	54.00	-7.68	13.49	3	Horizontal	166	1.02	-
5795MHz	Pass	PK	11.58868G	60.63	74.00	-13.37	13.50	3	Horizontal	166	1.02	-
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.15G	53.74	54.00	-0.26	2.74	3	Vertical	229	1.82	-
5210MHz	Pass	AV	5.21G	95.22	Inf	-Inf	2.82	3	Vertical	229	1.82	-
5210MHz	Pass	AV	5.351G	44.32	54.00	-9.68	2.97	3	Vertical	229	1.82	-
5210MHz	Pass	PK	5.149G	66.33	74.00	-7.67	2.74	3	Vertical	229	1.82	-
5210MHz	Pass	PK	5.228G	103.92	Inf	-Inf	2.83	3	Vertical	229	1.82	-
5210MHz	Pass	PK	5.4G	57.25	74.00	-16.75	3.03	3	Vertical	229	1.82	-
5210MHz	Pass	AV	10.43002G	40.69	54.00	-13.31	12.79	3	Vertical	28	1.62	-
5210MHz	Pass	PK	10.4071G	53.83	74.00	-20.17	12.74	3	Vertical	28	1.62	-
5210MHz	Pass	AV	10.42636G	40.58	54.00	-13.42	12.78	3	Horizontal	332	2.10	-
5210MHz	Pass	PK	10.42738G	54.09	74.00	-19.91	12.78	3	Horizontal	332	2.10	-
5290MHz	Pass	AV	5.148G	43.08	54.00	-10.92	2.74	3	Vertical	229	1.83	-
5290MHz	Pass	AV	5.29G	95.97	Inf	-Inf	2.89	3	Vertical	229	1.83	-
5290MHz	Pass	AV	5.35G	53.36	54.00	-0.64	2.97	3	Vertical	229	1.83	-
5290MHz	Pass	PK	5.133G	55.51	74.00	-18.49	2.72	3	Vertical	229	1.83	-
5290MHz	Pass	PK	5.306G	103.28	Inf	-Inf	2.91	3	Vertical	229	1.83	-
5290MHz	Pass	PK	5.35G	66.46	74.00	-7.54	2.97	3	Vertical	229	1.83	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5290MHz	Pass	AV	10.58648G	40.73	54.00	-13.27	13.13	3	Vertical	288	2.30	-
5290MHz	Pass	PK	10.58708G	53.81	74.00	-20.19	13.13	3	Vertical	288	2.30	-
5290MHz	Pass	AV	10.57178G	40.80	54.00	-13.20	13.10	3	Horizontal	146	1.80	-
5290MHz	Pass	PK	10.56692G	54.31	74.00	-19.69	13.08	3	Horizontal	146	1.80	-
5530MHz	Pass	AV	5.447G	50.25	54.00	-3.75	3.08	3	Vertical	228	1.91	-
5530MHz	Pass	AV	5.505G	93.97	Inf	-Inf	3.15	3	Vertical	228	1.91	-
5530MHz	Pass	PK	5.467G	68.05	68.20	-0.15	3.11	3	Vertical	228	1.91	-
5530MHz	Pass	PK	5.504G	103.87	Inf	-Inf	3.15	3	Vertical	228	1.91	-
5530MHz	Pass	PK	5.742G	55.73	68.20	-12.47	3.62	3	Vertical	228	1.91	-
5530MHz	Pass	AV	11.05652G	41.53	54.00	-12.47	13.97	3	Vertical	56	1.00	-
5530MHz	Pass	PK	11.06918G	54.70	74.00	-19.30	13.96	3	Vertical	56	1.00	-
5530MHz	Pass	AV	11.05328G	41.63	54.00	-12.37	13.99	3	Horizontal	156	1.72	-
5530MHz	Pass	PK	11.045G	55.16	74.00	-18.84	14.00	3	Horizontal	156	1.72	-
5610MHz	Pass	AV	5.448G	51.75	54.00	-2.25	3.08	3	Vertical	233	1.80	-
5610MHz	Pass	AV	5.588G	100.54	Inf	-Inf	3.31	3	Vertical	233	1.80	-
5610MHz	Pass	PK	5.468G	65.93	68.20	-2.27	3.11	3	Vertical	233	1.80	-
5610MHz	Pass	PK	5.589G	110.32	Inf	-Inf	3.31	3	Vertical	233	1.80	-
5610MHz	Pass	PK	5.729G	66.60	68.20	-1.60	3.59	3	Vertical	233	1.80	-
5610MHz	Pass	AV	11.2146G	41.13	54.00	-12.87	13.83	3	Vertical	154	2.06	-
5610MHz	Pass	PK	11.21868G	54.48	74.00	-19.52	13.82	3	Vertical	154	2.06	-
5610MHz	Pass	AV	11.21094G	41.00	54.00	-13.00	13.83	3	Horizontal	54	1.50	-
5610MHz	Pass	PK	11.2323G	54.30	74.00	-19.70	13.81	3	Horizontal	54	1.50	-
5775MHz	Pass	AV	5.751G	100.53	Inf	-Inf	3.64	3	Vertical	228	1.72	-
5775MHz	Pass	PK	5.6514G	68.58	69.24	-0.66	3.44	3	Vertical	228	1.72	-
5775MHz	Pass	PK	5.7438G	109.94	Inf	-Inf	3.62	3	Vertical	228	1.72	-
5775MHz	Pass	PK	5.9358G	62.38	68.20	-5.82	4.01	3	Vertical	228	1.72	-
5775MHz	Pass	AV	11.54028G	40.51	54.00	-13.49	13.53	3	Vertical	52	2.82	-
5775MHz	Pass	PK	11.55402G	54.42	74.00	-19.58	13.52	3	Vertical	52	2.82	-
5775MHz	Pass	AV	11.56452G	40.55	54.00	-13.45	13.51	3	Horizontal	72	1.50	-
5775MHz	Pass	PK	11.53566G	53.77	74.00	-20.23	13.54	3	Horizontal	72	1.50	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5180MHz_TX

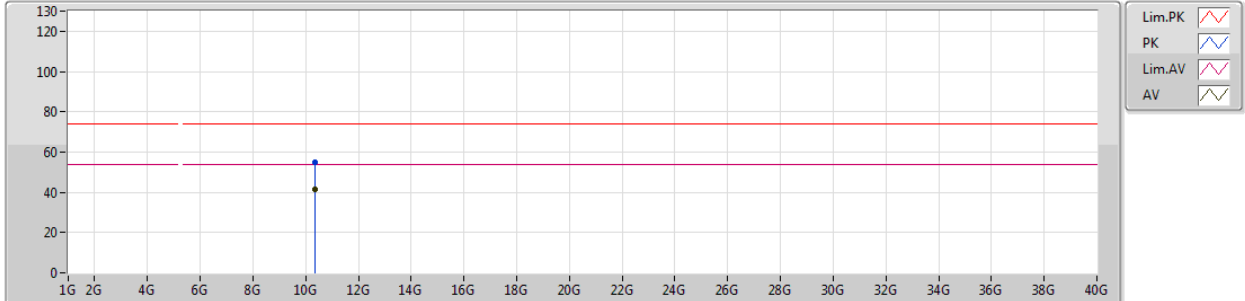


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.15G	53.55	54.00	-0.45	2.74	3	Vertical	69	1.85	-							
AV	5.181G	106.57	Inf	-Inf	2.78	3	Vertical	69	1.85	-							
PK	5.1498G	65.45	74.00	-8.55	2.74	3	Vertical	69	1.85	-							
PK	5.1812G	116.58	Inf	-Inf	2.78	3	Vertical	69	1.85	-							

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5180MHz_TX

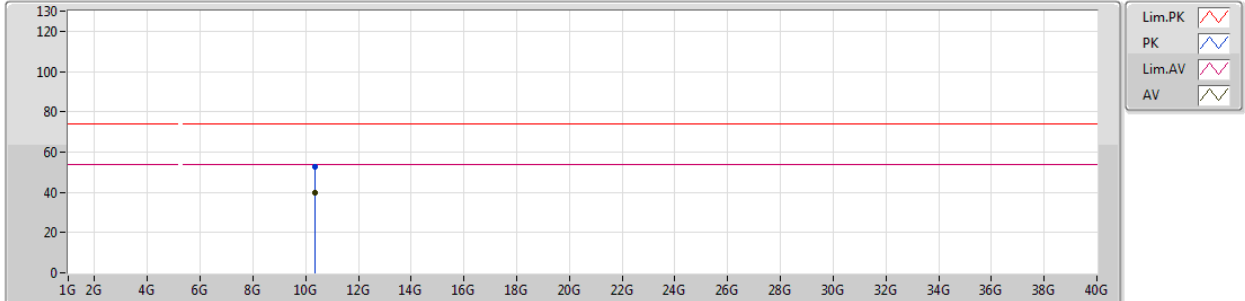


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.3555G	41.41	54.00	-12.59	12.63	3	Vertical	43	1.34	-								
PK	10.35496G	54.89	74.00	-19.11	12.63	3	Vertical	43	1.34	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5180MHz_TX

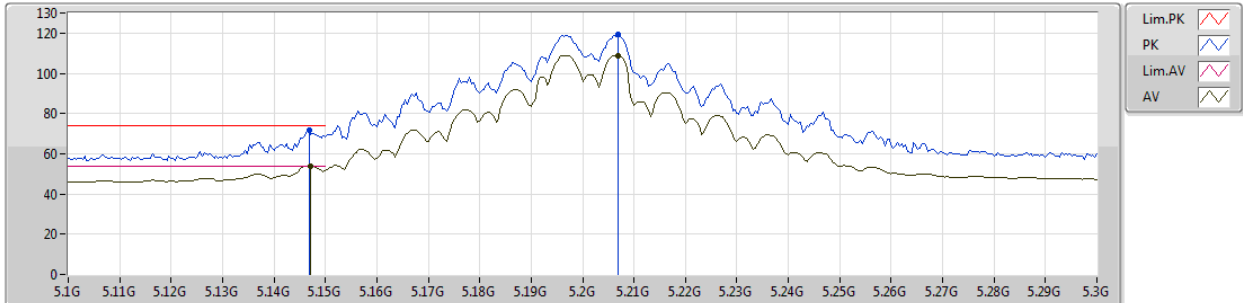


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.36438G	39.74	54.00	-14.26	12.64	3	Horizontal	209	2.95	-
PK	10.34962G	52.68	74.00	-21.32	12.61	3	Horizontal	209	2.95	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5200MHz_TX

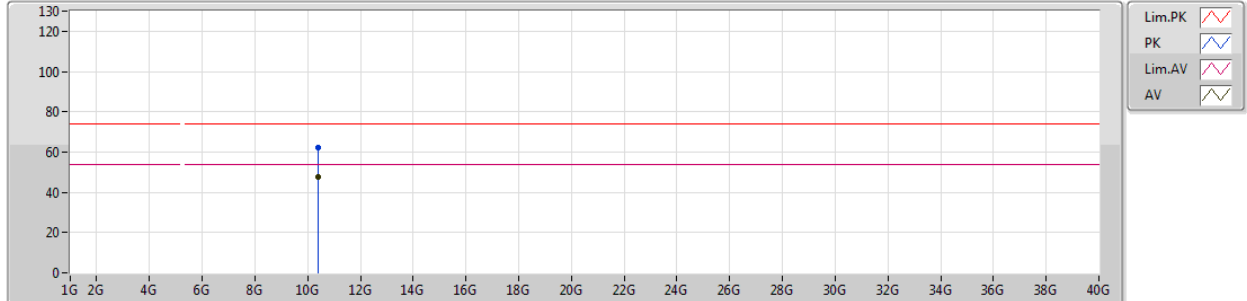


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1472G	53.90	54.00	-0.10	2.74	3	Vertical	131	1.50	-
AV	5.2068G	108.93	Inf	-Inf	2.80	3	Vertical	131	1.50	-
PK	5.1468G	71.99	74.00	-2.01	2.74	3	Vertical	131	1.50	-
PK	5.2068G	119.08	Inf	-Inf	2.80	3	Vertical	131	1.50	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5200MHz_TX

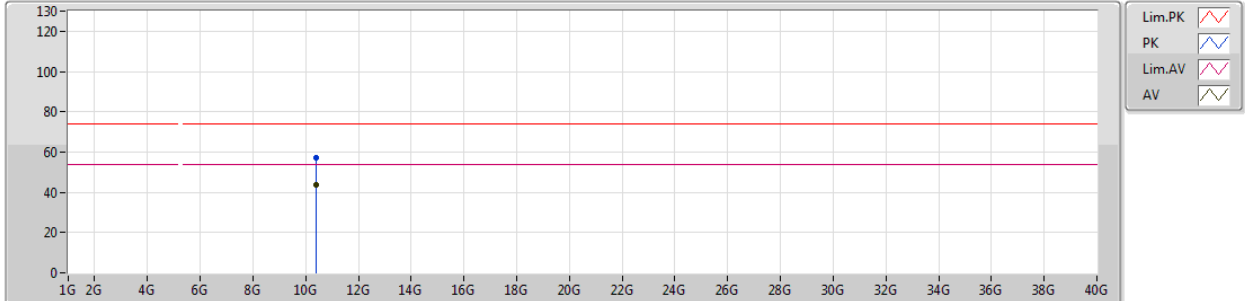


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.39964G	47.87	54.00	-6.13	12.73	3	Vertical	220	1.70	-
PK	10.39958G	62.15	74.00	-11.85	12.73	3	Vertical	220	1.70	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5200MHz_TX

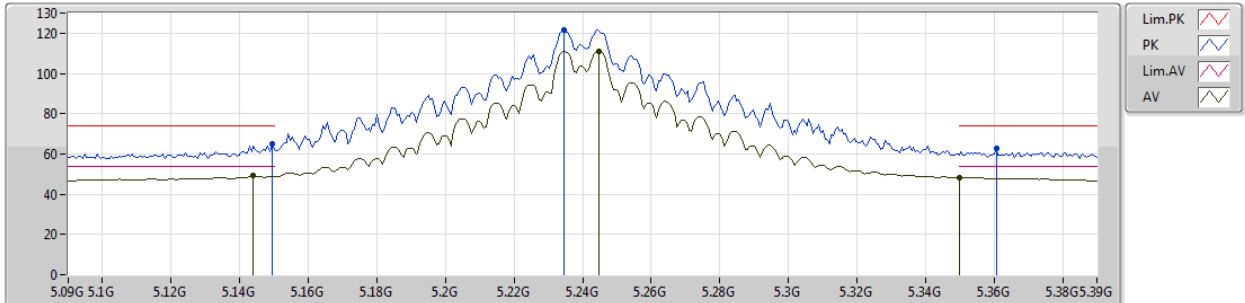


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.40216G	43.78	54.00	-10.22	12.73	3	Horizontal	134	1.42	-								
PK	10.40312G	56.95	74.00	-17.05	12.73	3	Horizontal	134	1.42	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5240MHz_TX

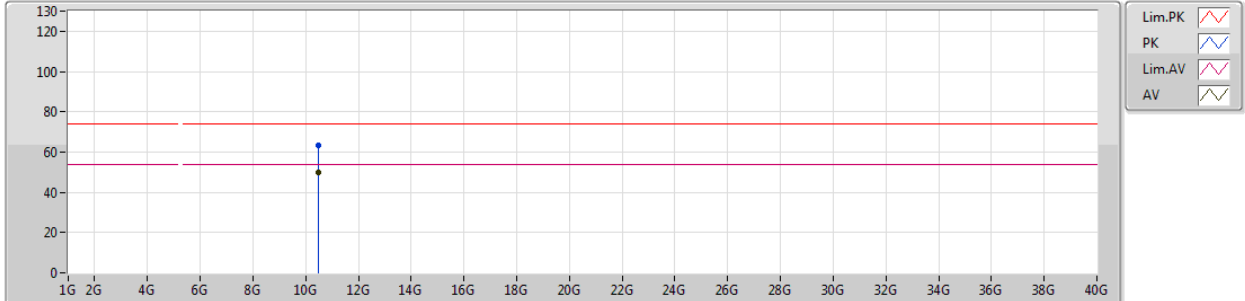


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.144G	49.11	54.00	-4.89	2.74	3	Vertical	243	1.79	-
AV	5.2448G	110.88	Inf	-Inf	2.85	3	Vertical	243	1.79	-
AV	5.35G	48.18	54.00	-5.82	2.97	3	Vertical	243	1.79	-
PK	5.1494G	65.23	74.00	-8.77	2.74	3	Vertical	243	1.79	-
PK	5.2346G	121.64	Inf	-Inf	2.83	3	Vertical	243	1.79	-
PK	5.3606G	62.66	74.00	-11.34	2.98	3	Vertical	243	1.79	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5240MHz_TX

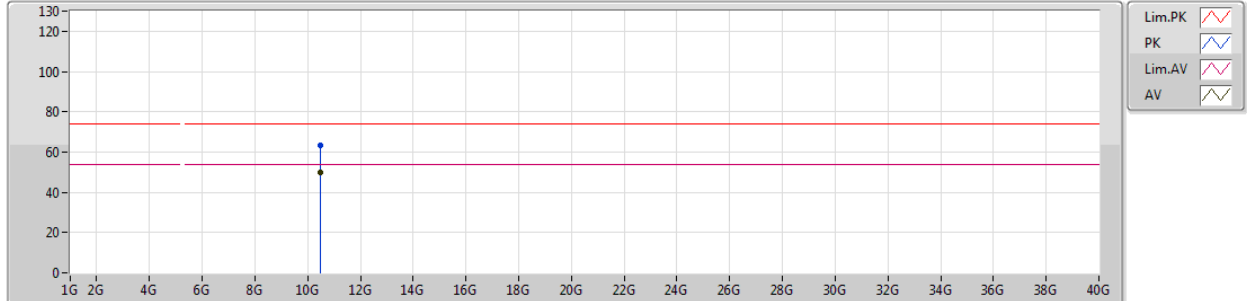


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.4795G	50.10	54.00	-3.90	12.90	3	Vertical	210	1.56	-								
PK	10.4794G	63.18	74.00	-10.82	12.90	3	Vertical	210	1.56	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5240MHz_TX

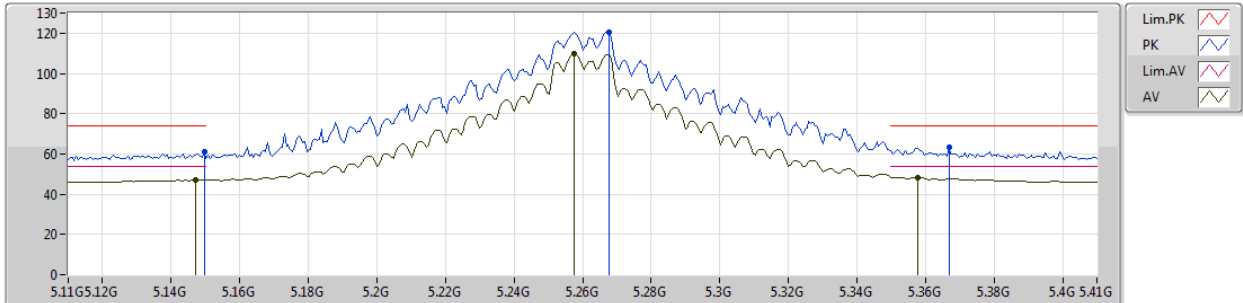


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.4829G	49.86	54.00	-4.14	12.91	3	Horizontal	279	1.00	-								
PK	10.4829G	63.43	74.00	-10.57	12.91	3	Horizontal	279	1.00	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5260MHz_TX

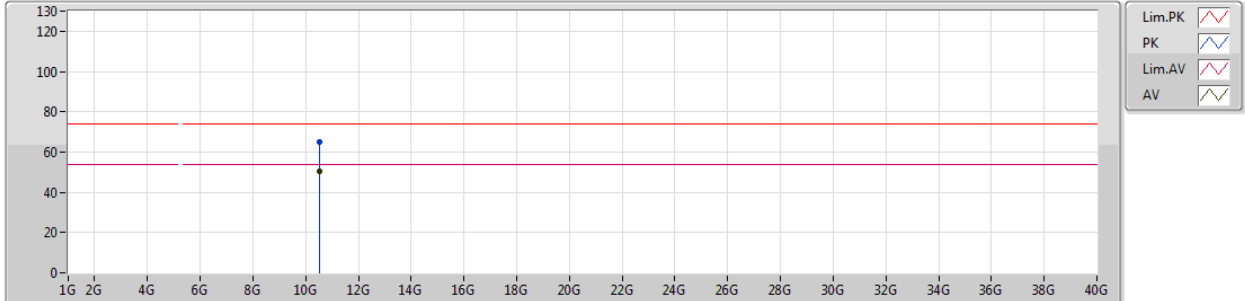


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1472G	47.20	54.00	-6.80	2.74	3	Vertical	241	1.50	-
AV	5.2576G	109.58	Inf	-Inf	2.86	3	Vertical	241	1.50	-
AV	5.3578G	48.40	54.00	-5.60	2.97	3	Vertical	241	1.50	-
PK	5.1496G	61.10	74.00	-12.90	2.74	3	Vertical	241	1.50	-
PK	5.2678G	120.48	Inf	-Inf	2.88	3	Vertical	241	1.50	-
PK	5.3668G	63.25	74.00	-10.75	2.99	3	Vertical	241	1.50	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5260MHz_TX

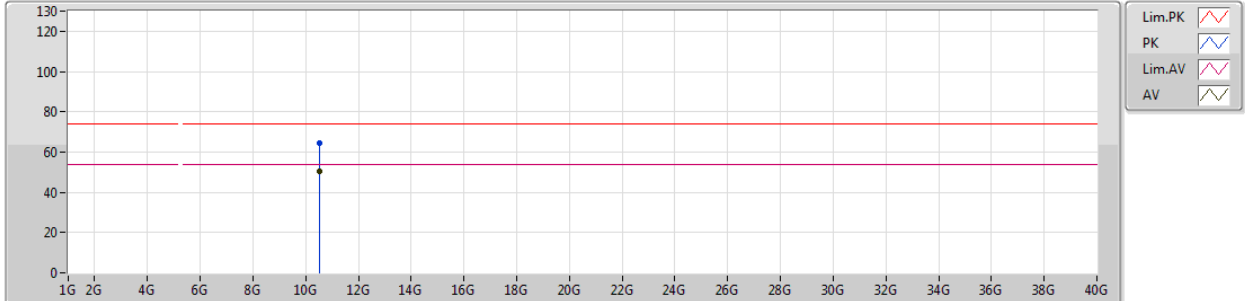


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.5193G	50.54	54.00	-3.46	12.98	3	Vertical	209	1.60	-								
PK	10.5192G	64.93	74.00	-9.07	12.98	3	Vertical	209	1.60	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5260MHz_TX

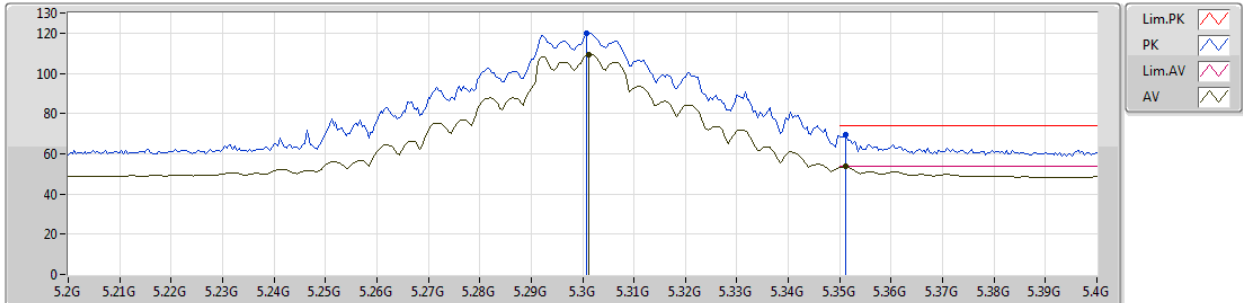


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.5227G	50.44	54.00	-3.56	12.98	3	Horizontal	278	1.00	-
PK	10.5223G	64.21	74.00	-9.79	12.98	3	Horizontal	278	1.00	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5300MHz_TX

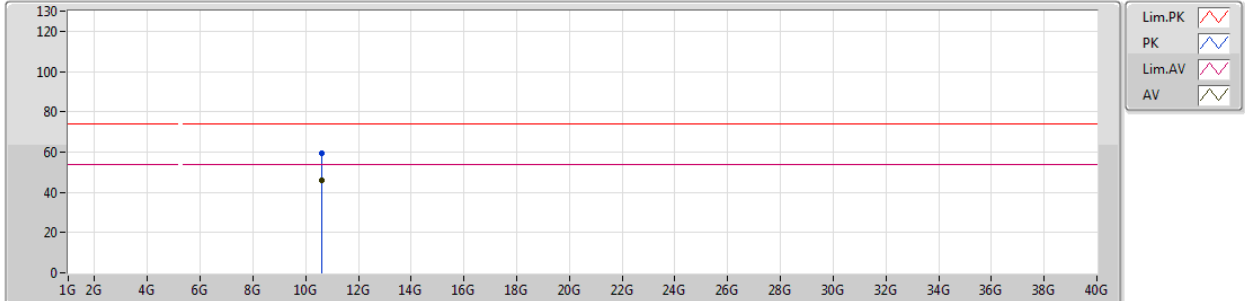


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3012G	109.28	Inf	-Inf	2.91	3	Vertical	271	1.78	-
AV	5.3512G	53.53	54.00	-0.47	2.97	3	Vertical	271	1.78	-
PK	5.3008G	120.01	Inf	-Inf	2.91	3	Vertical	271	1.78	-
PK	5.3512G	69.56	74.00	-4.44	2.97	3	Vertical	271	1.78	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5300MHz_TX

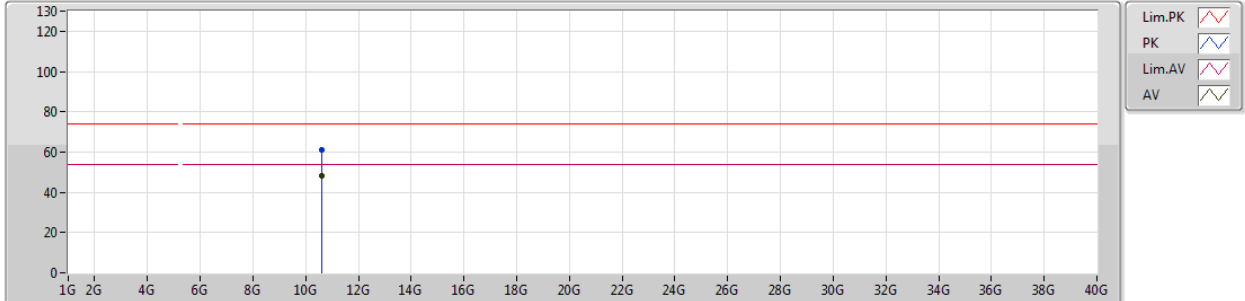


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.5981 G	46.19	54.00	-7.81	13.15	3	Vertical	129	1.48	-								
PK	10.6071 G	59.39	74.00	-14.61	13.17	3	Vertical	129	1.48	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5300MHz_TX

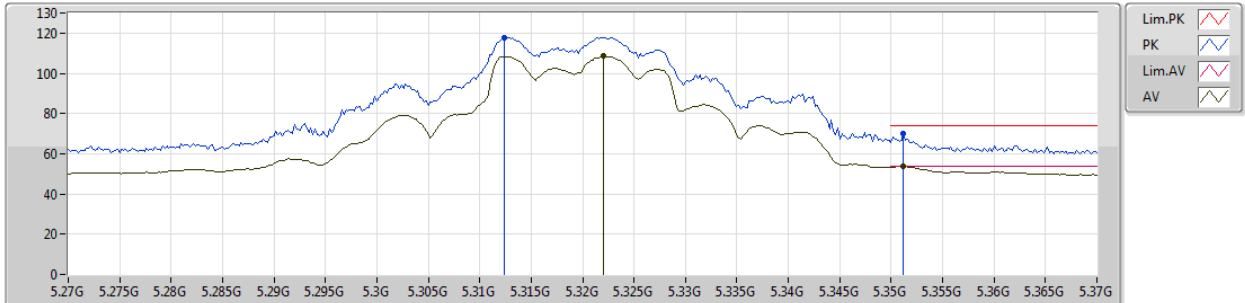


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6021 G	48.05	54.00	-5.95	13.16	3	Horizontal	276	1.01	-								
PK	10.5931 G	61.21	74.00	-12.79	13.14	3	Horizontal	276	1.01	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5320MHz_TX

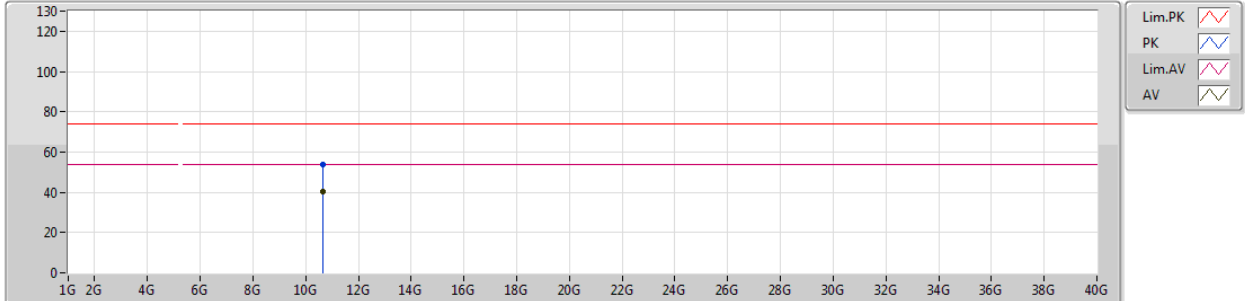


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.322G	108.47	Inf	-Inf	2.94	3	Vertical	263	1.90	-
AV	5.3512G	53.61	54.00	-0.39	2.97	3	Vertical	263	1.90	-
PK	5.3124G	117.94	Inf	-Inf	2.93	3	Vertical	263	1.90	-
PK	5.3512G	70.06	74.00	-3.94	2.97	3	Vertical	263	1.90	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5320MHz_TX

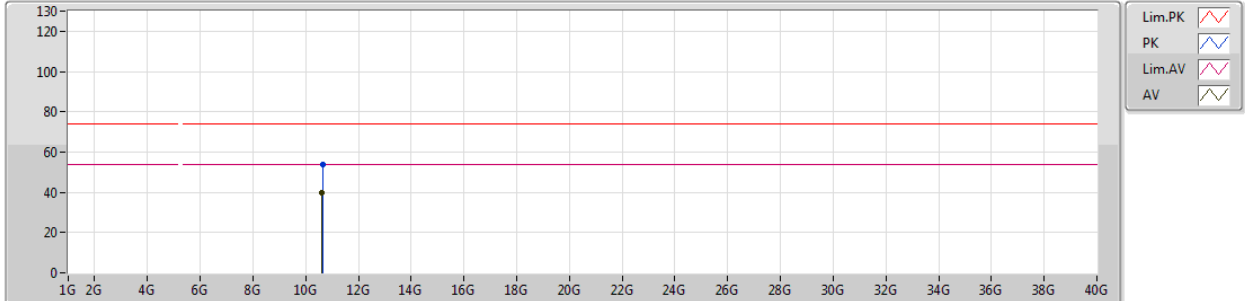


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6387G	40.46	54.00	-13.54	13.24	3	Vertical	127	1.49	-								
PK	10.6613G	53.63	74.00	-20.37	13.29	3	Vertical	127	1.49	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5320MHz_TX

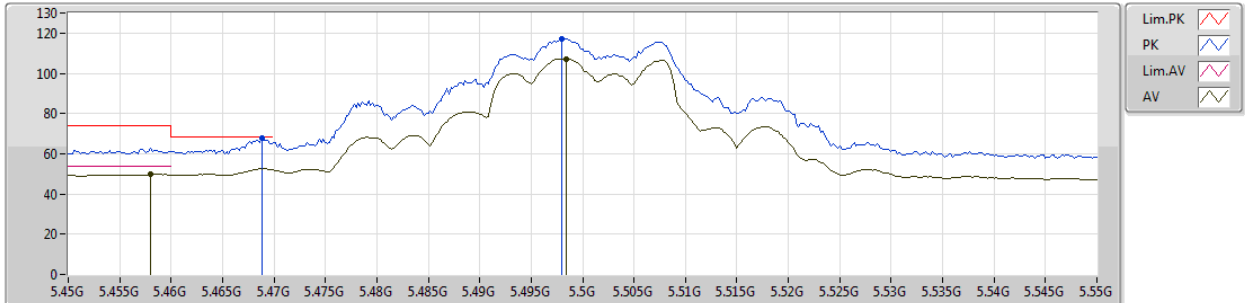


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6167G	39.83	54.00	-14.17	13.19	3	Horizontal	47	1.50	-								
PK	10.6345G	53.55	74.00	-20.45	13.24	3	Horizontal	47	1.50	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5500MHz_TX

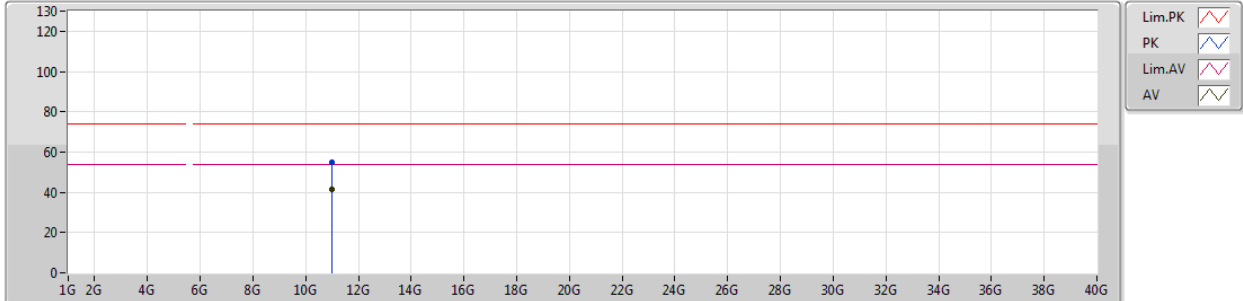


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.458G	49.75	54.00	-4.25	3.09	3	Vertical	261	1.91	-
AV	5.4984G	107.07	Inf	-Inf	3.14	3	Vertical	261	1.91	-
PK	5.4688G	67.79	68.20	-0.41	3.11	3	Vertical	261	1.91	-
PK	5.498G	117.20	Inf	-Inf	3.14	3	Vertical	261	1.91	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5500MHz_TX

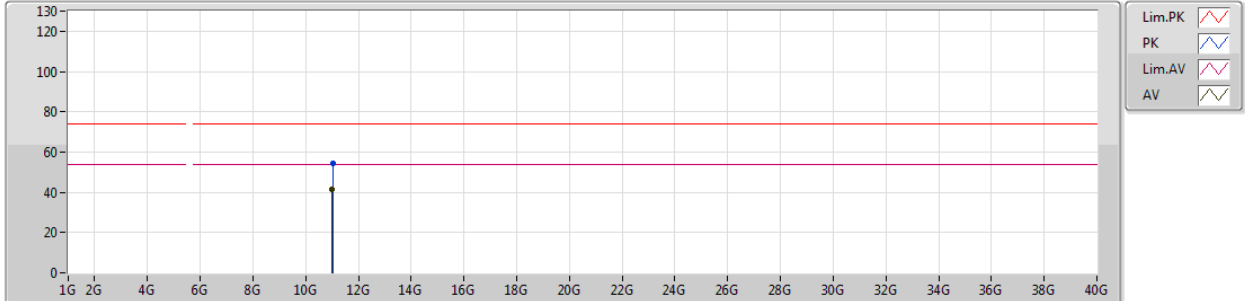


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.0009G	41.40	54.00	-12.60	14.03	3	Vertical	23	1.70	-								
PK	11.0016G	55.10	74.00	-18.90	14.03	3	Vertical	23	1.70	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5500MHz_TX

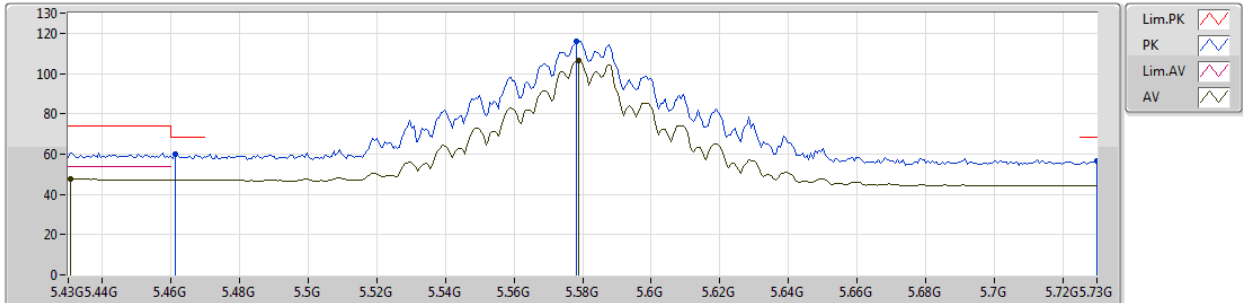


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.9905G	41.27	54.00	-12.73	14.01	3	Horizontal	223	1.48	-
PK	11.0204G	54.39	74.00	-19.61	14.01	3	Horizontal	223	1.48	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5580MHz_TX

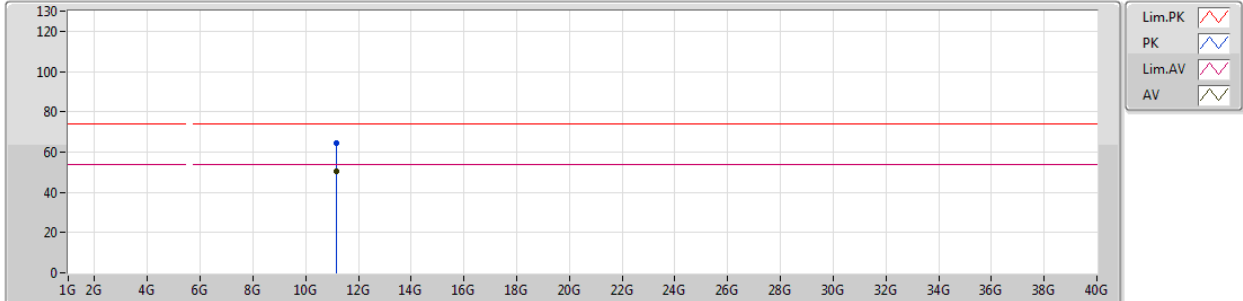


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4306G	47.67	54.00	-6.33	3.06	3	Vertical	0	1.94	-
AV	5.5788G	106.31	Inf	-Inf	3.30	3	Vertical	0	1.94	-
PK	5.4612G	60.23	68.20	-7.97	3.10	3	Vertical	0	1.94	-
PK	5.5782G	116.20	Inf	-Inf	3.29	3	Vertical	0	1.94	-
PK	5.73G	56.62	68.20	-11.58	3.59	3	Vertical	0	1.94	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5580MHz_TX

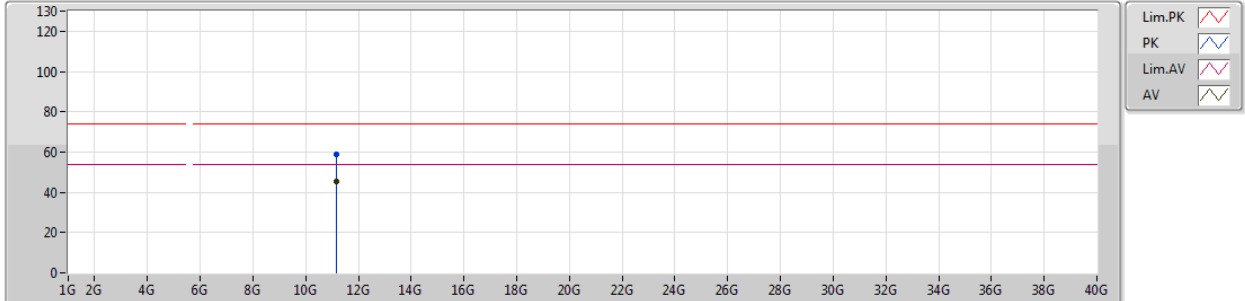


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.16G	50.70	54.00	-3.30	13.89	3	Vertical	74	2.42	-								
PK	11.1707G	64.20	74.00	-9.80	13.87	3	Vertical	74	2.42	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5580MHz_TX

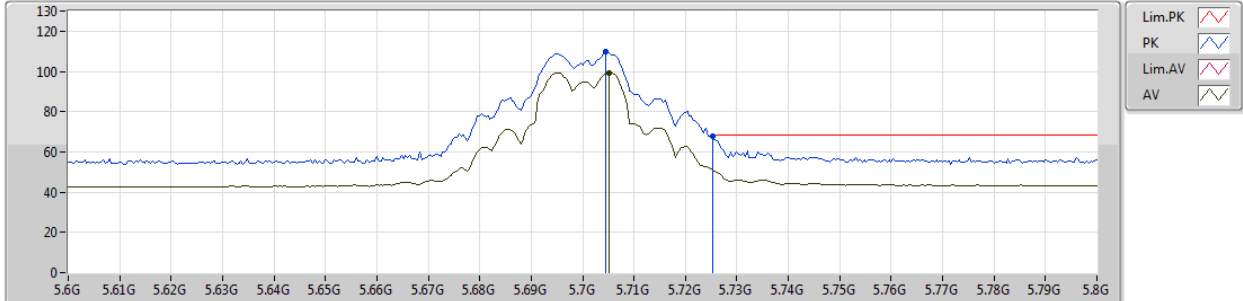


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.1592G	45.20	54.00	-8.80	13.89	3	Horizontal	237	1.00	-								
PK	11.1591G	58.93	74.00	-15.07	13.89	3	Horizontal	237	1.00	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5700MHz_TX

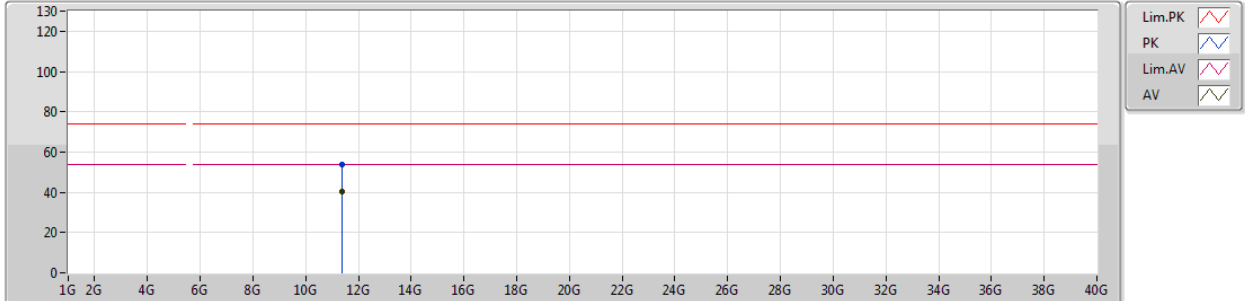


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.7052G	99.41	Inf	-Inf	3.55	3	Vertical	279	1.08	-							
PK	5.7044G	109.64	Inf	-Inf	3.55	3	Vertical	279	1.08	-							
PK	5.7252G	67.59	68.20	-0.61	3.59	3	Vertical	279	1.08	-							

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5700MHz_TX

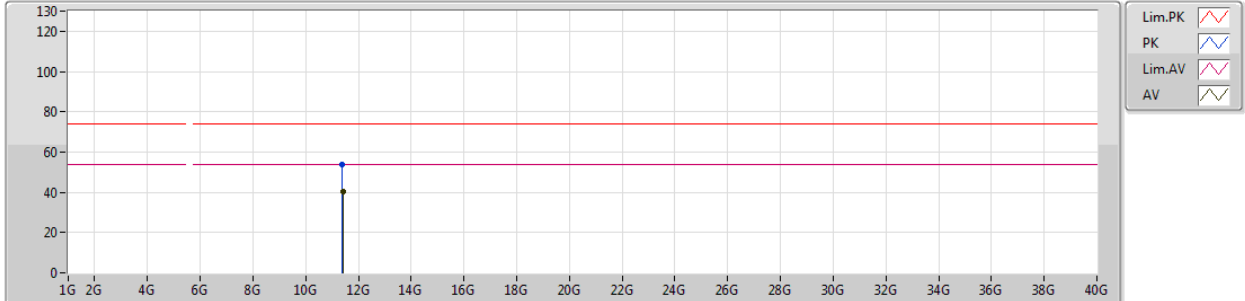


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.3989G	40.55	54.00	-13.45	13.66	3	Vertical	119	1.98	-
PK	11.381G	53.53	74.00	-20.47	13.69	3	Vertical	119	1.98	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5700MHz_TX

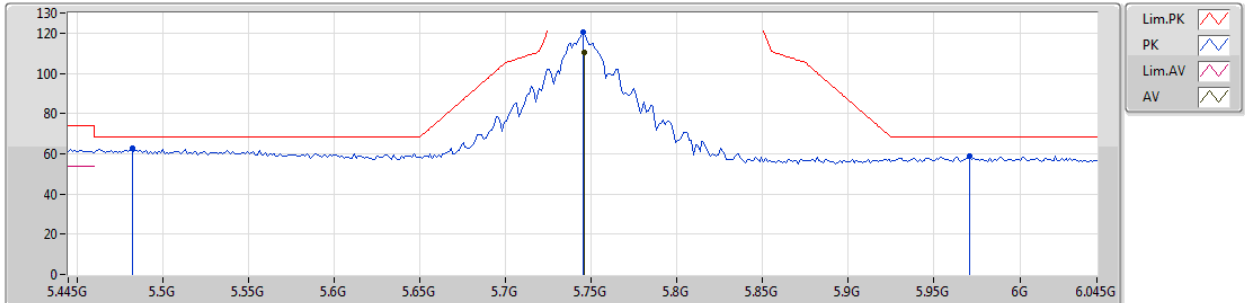


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.4044G	40.46	54.00	-13.54	13.65	3	Horizontal	251	1.38	-								
PK	11.3846G	53.56	74.00	-20.44	13.68	3	Horizontal	251	1.38	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5745MHz_TX

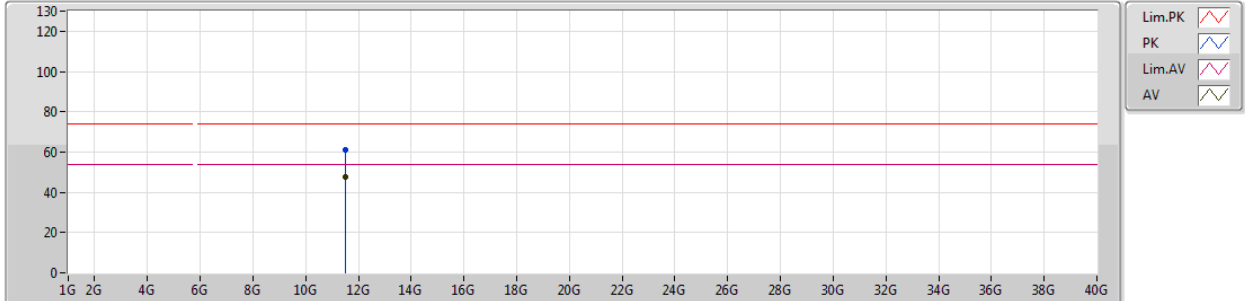


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7462G	110.19	Inf	-Inf	3.62	3	Vertical	259	1.77	-
PK	5.4822G	62.48	68.20	-5.72	3.12	3	Vertical	259	1.77	-
PK	5.745G	120.60	Inf	-Inf	3.62	3	Vertical	259	1.77	-
PK	5.9706G	58.70	68.20	-9.50	4.07	3	Vertical	259	1.77	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5745MHz_TX

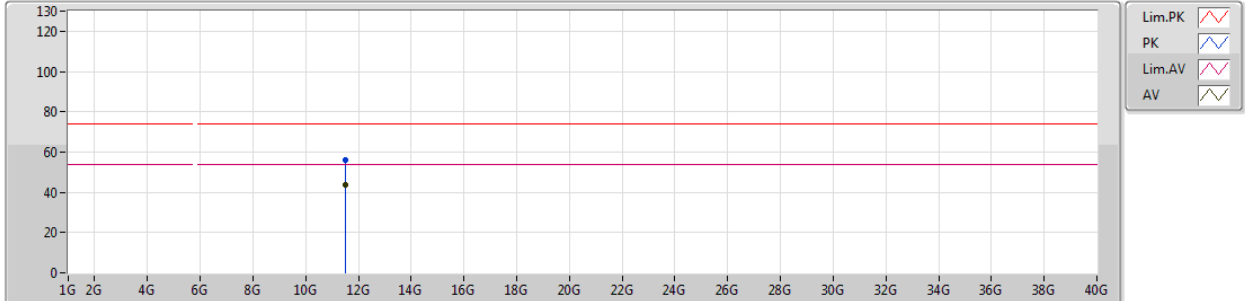


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.4932G	47.66	54.00	-6.34	13.58	3	Vertical	253	2.72	-								
PK	11.4928G	61.03	74.00	-12.97	13.58	3	Vertical	253	2.72	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5745MHz_TX

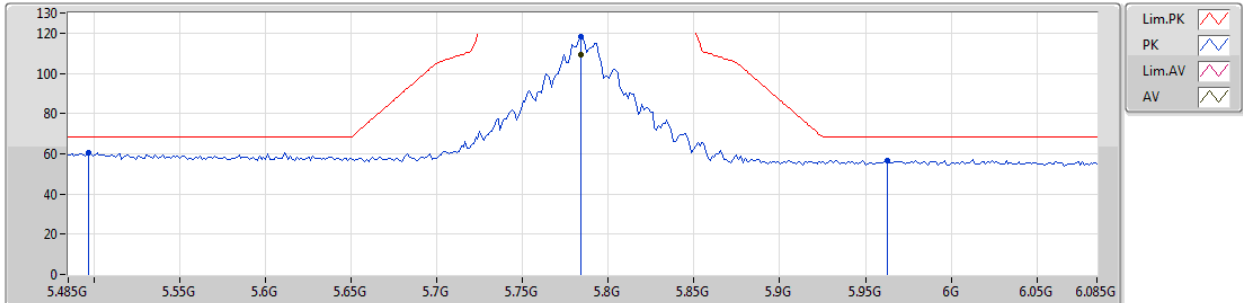


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.4929G	43.87	54.00	-10.13	13.58	3	Horizontal	326	2.53	-
PK	11.4927G	55.83	74.00	-18.17	13.58	3	Horizontal	326	2.53	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5785MHz_TX

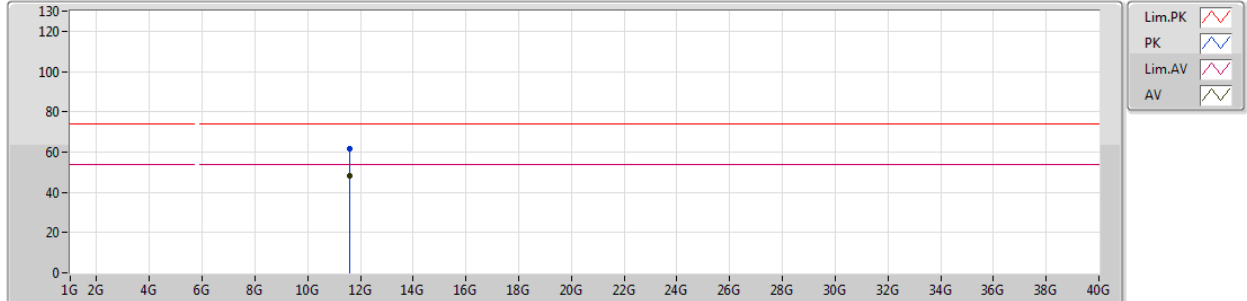


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7838G	109.08	Inf	-Inf	3.70	3	Vertical	253	1.75	-
PK	5.497G	60.43	68.20	-7.77	3.14	3	Vertical	253	1.75	-
PK	5.7838G	118.14	Inf	-Inf	3.70	3	Vertical	253	1.75	-
PK	5.9626G	56.61	68.20	-11.59	4.05	3	Vertical	253	1.75	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5785MHz_TX

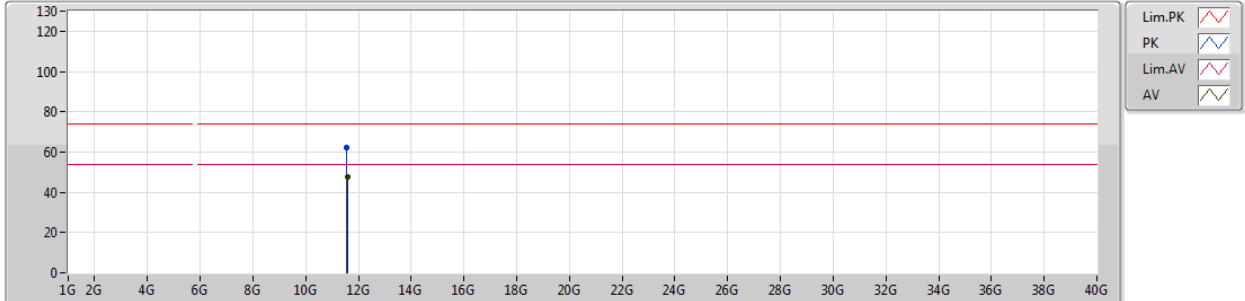


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5726G	48.15	54.00	-5.85	13.51	3	Vertical	247	2.89	-
PK	11.5724G	61.86	74.00	-12.14	13.51	3	Vertical	247	2.89	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5785MHz_TX

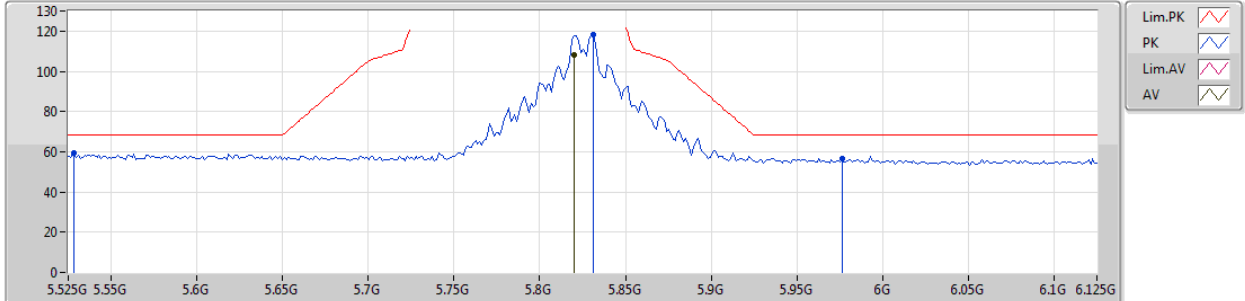


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5744G	47.87	54.00	-6.13	13.51	3	Horizontal	299	2.16	-
PK	11.5653G	62.44	74.00	-11.56	13.51	3	Horizontal	299	2.16	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5825MHz_TX

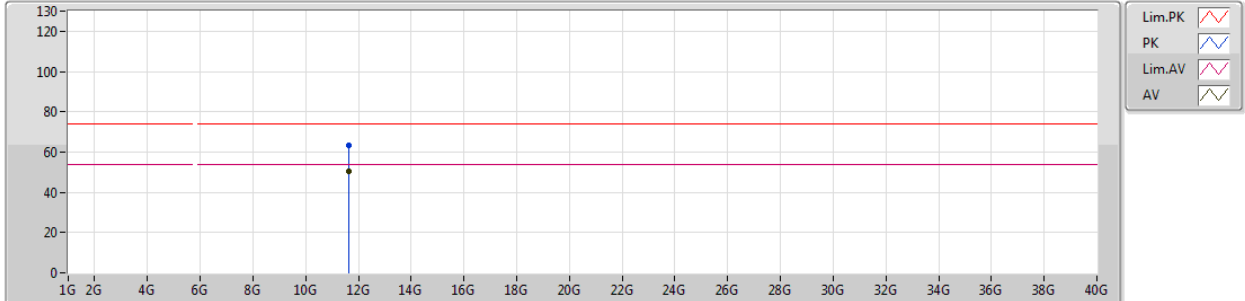


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8202G	108.28	Inf	-Inf	3.77	3	Vertical	227	1.67	-
PK	5.8286G	59.31	68.20	-8.89	3.20	3	Vertical	227	1.67	-
PK	5.831 G	118.26	Inf	-Inf	3.79	3	Vertical	227	1.67	-
PK	5.9762G	56.87	68.20	-11.33	4.08	3	Vertical	227	1.67	-

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5825MHz_TX

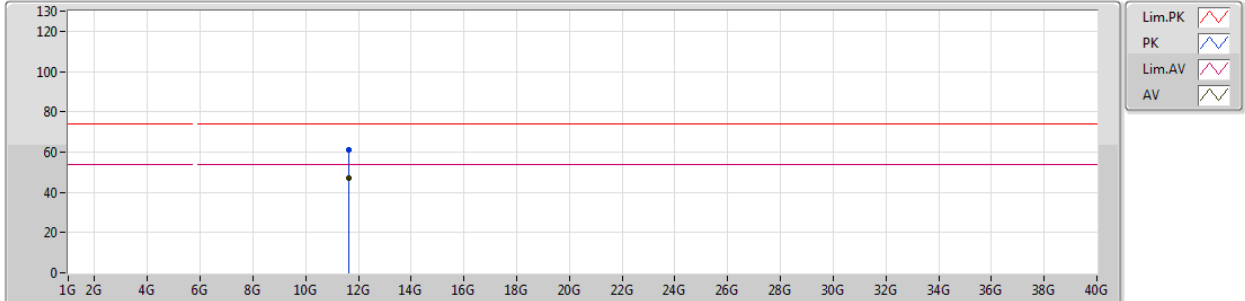


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.6481G	50.60	54.00	-3.40	13.43	3	Vertical	166	2.14	-								
PK	11.6485G	63.41	74.00	-10.59	13.43	3	Vertical	166	2.14	-								

802.11a_Nss1,(6Mbps)_3TX

11/01/2019

5825MHz_TX

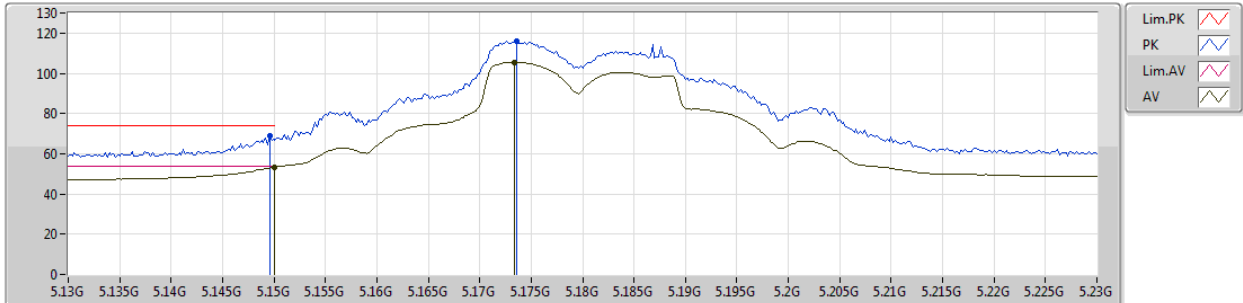


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.6487G	47.03	54.00	-6.97	13.43	3	Horizontal	186	1.01	-								
PK	11.6483G	61.01	74.00	-12.99	13.43	3	Horizontal	186	1.01	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5180MHz_TX

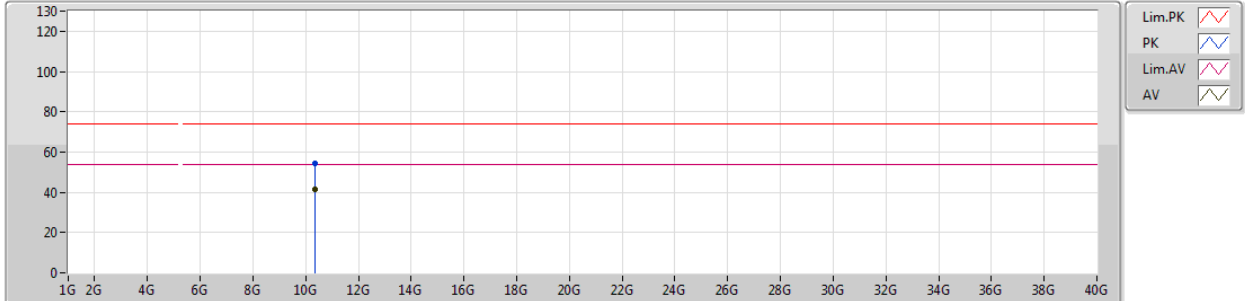


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	53.25	54.00	-0.75	2.74	3	Vertical	245	1.94	-
AV	5.1734G	105.52	Inf	-Inf	2.76	3	Vertical	245	1.94	-
PK	5.1496G	68.65	74.00	-5.35	2.74	3	Vertical	245	1.94	-
PK	5.1736G	115.90	Inf	-Inf	2.76	3	Vertical	245	1.94	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5180MHz_TX

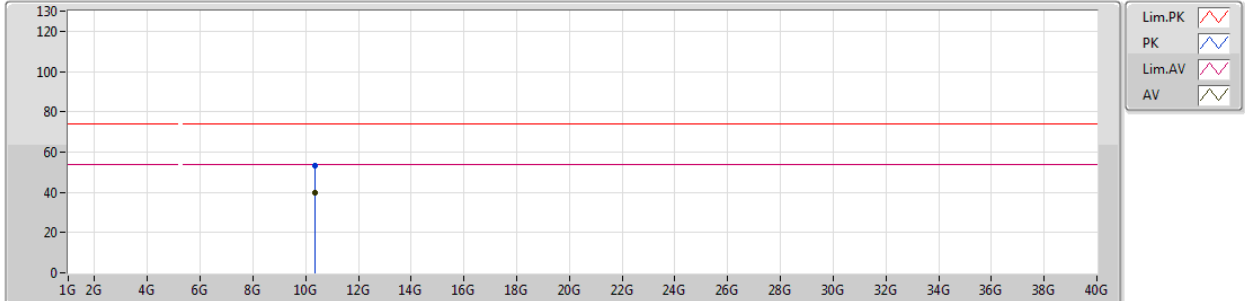


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.3608G	41.68	54.00	-12.32	12.64	3	Vertical	196	1.55	-								
PK	10.3597G	54.39	74.00	-19.61	12.63	3	Vertical	196	1.55	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5180MHz_TX

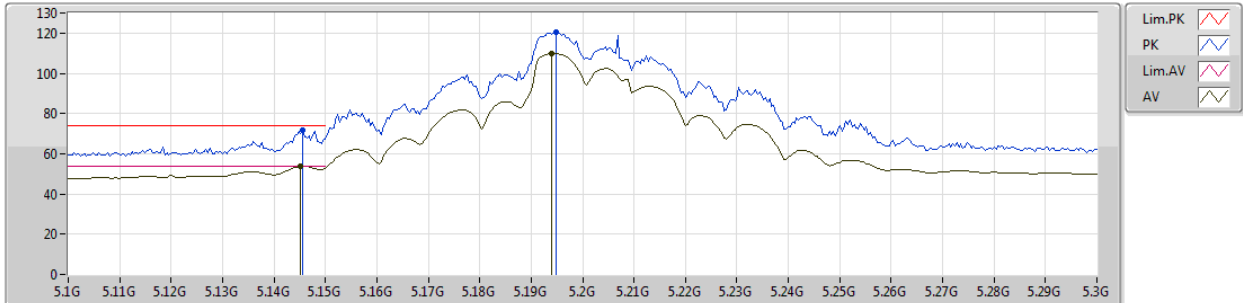


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.3598G	39.83	54.00	-14.17	12.63	3	Horizontal	359	2.47	-
PK	10.3396G	53.19	74.00	-20.81	12.60	3	Horizontal	359	2.47	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5200MHz_TX

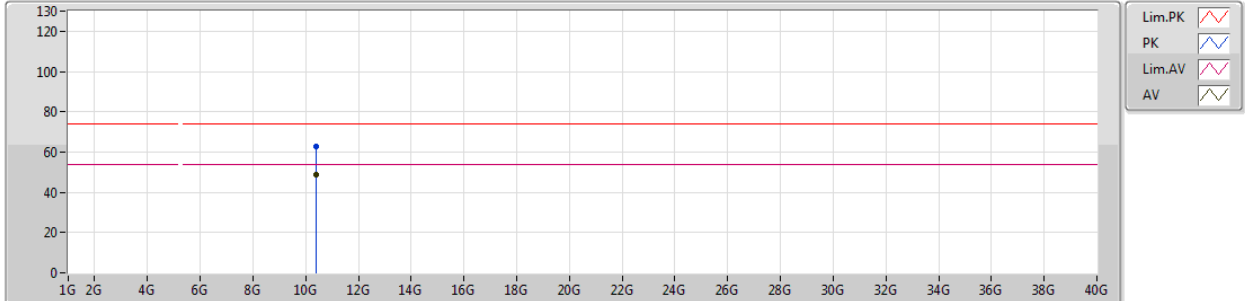


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1452G	53.62	54.00	-0.38	2.74	3	Vertical	247	1.97	-
AV	5.194G	109.87	Inf	-Inf	2.80	3	Vertical	247	1.97	-
PK	5.1456G	71.60	74.00	-2.40	2.74	3	Vertical	247	1.97	-
PK	5.1948G	120.31	Inf	-Inf	2.80	3	Vertical	247	1.97	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5200MHz_TX

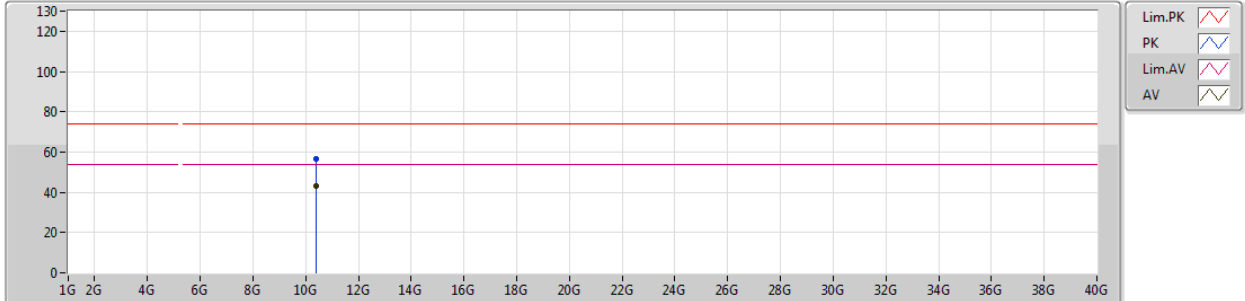


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.3994G	48.65	54.00	-5.35	12.73	3	Vertical	196	1.50	-								
PK	10.4004G	62.87	74.00	-11.13	12.73	3	Vertical	196	1.50	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5200MHz_TX

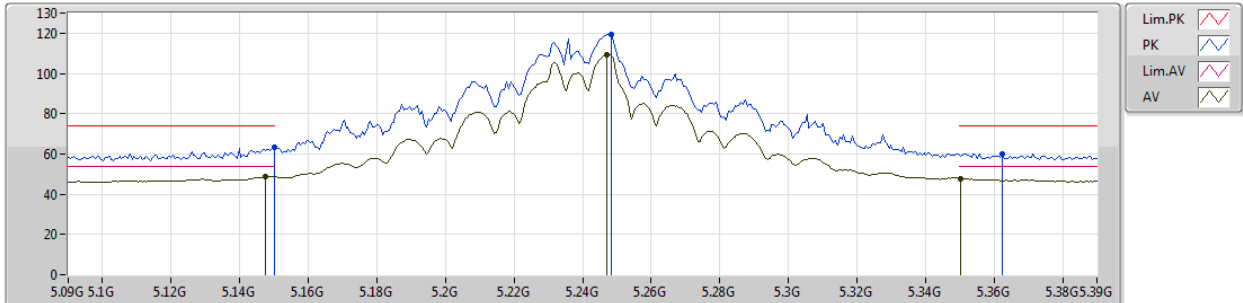


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4028G	43.21	54.00	-10.79	12.73	3	Horizontal	109	1.44	-
PK	10.403G	56.43	74.00	-17.57	12.73	3	Horizontal	109	1.44	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5240MHz_TX

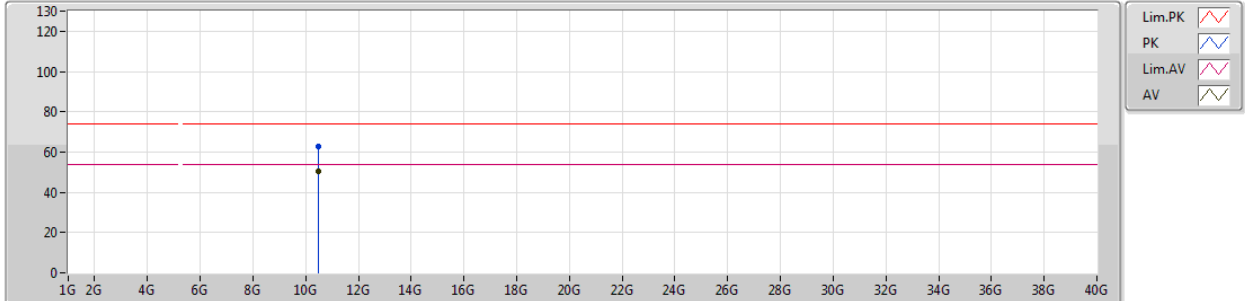


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1476G	48.84	54.00	-5.16	2.74	3	Vertical	96	1.73	-
AV	5.2472G	109.25	Inf	-Inf	2.85	3	Vertical	96	1.73	-
AV	5.3504G	47.79	54.00	-6.21	2.97	3	Vertical	96	1.73	-
PK	5.15G	63.27	74.00	-10.73	2.74	3	Vertical	96	1.73	-
PK	5.2484G	119.35	Inf	-Inf	2.85	3	Vertical	96	1.73	-
PK	5.3624G	59.98	74.00	-14.02	2.98	3	Vertical	96	1.73	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5240MHz_TX

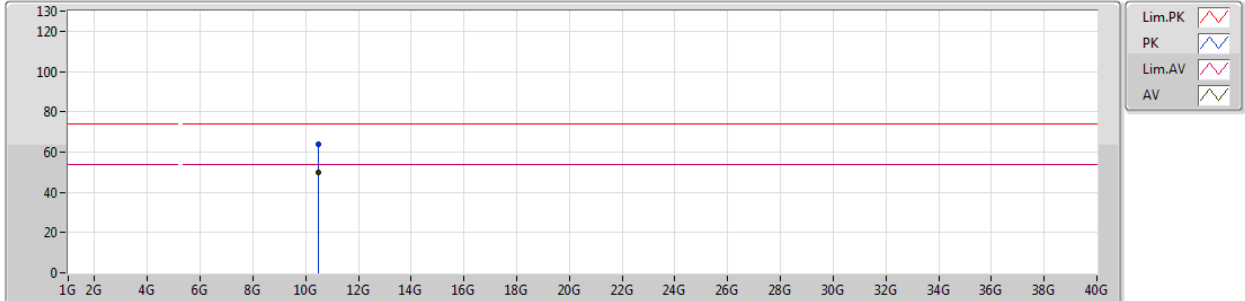


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.48G	50.16	54.00	-3.84	12.90	3	Vertical	197	1.51	-								
PK	10.4794G	62.58	74.00	-11.42	12.90	3	Vertical	197	1.51	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5240MHz_TX

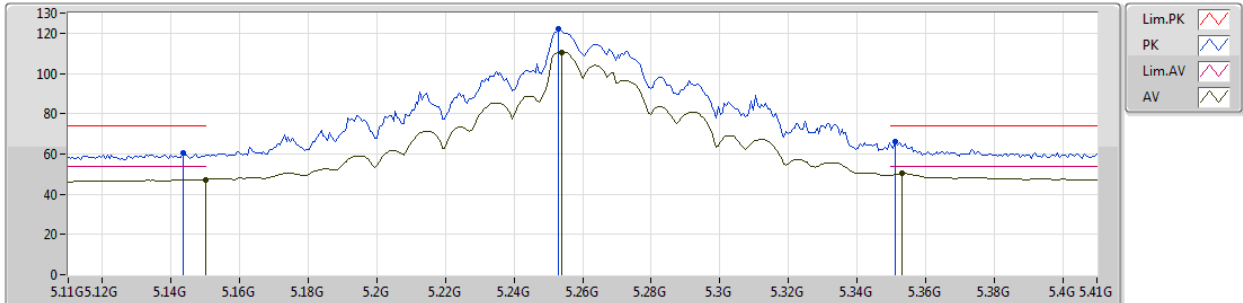


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4854G	49.76	54.00	-4.24	12.91	3	Horizontal	262	1.00	-
PK	10.4844G	63.98	74.00	-10.02	12.91	3	Horizontal	262	1.00	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5260MHz_TX

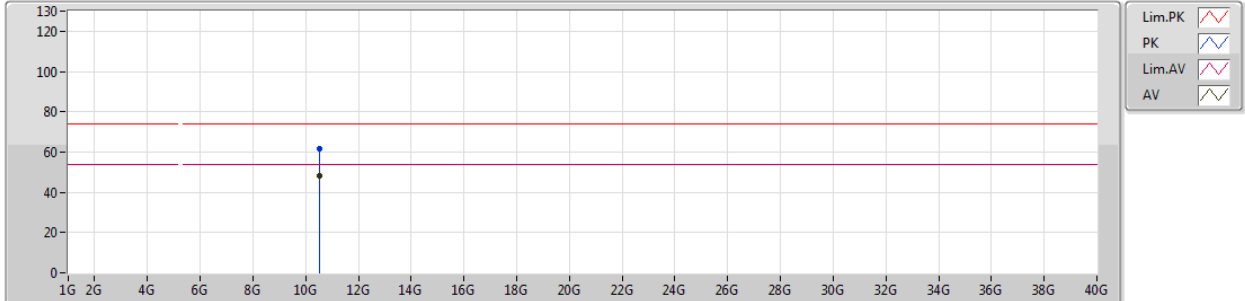


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	47.25	54.00	-6.75	2.74	3	Vertical	246	1.72	-
AV	5.254G	110.66	Inf	-Inf	2.86	3	Vertical	246	1.72	-
AV	5.353G	50.18	54.00	-3.82	2.97	3	Vertical	246	1.72	-
PK	5.1436G	60.53	74.00	-13.47	2.74	3	Vertical	246	1.72	-
PK	5.2528G	122.06	Inf	-Inf	2.86	3	Vertical	246	1.72	-
PK	5.3512G	66.08	74.00	-7.92	2.97	3	Vertical	246	1.72	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5260MHz_TX

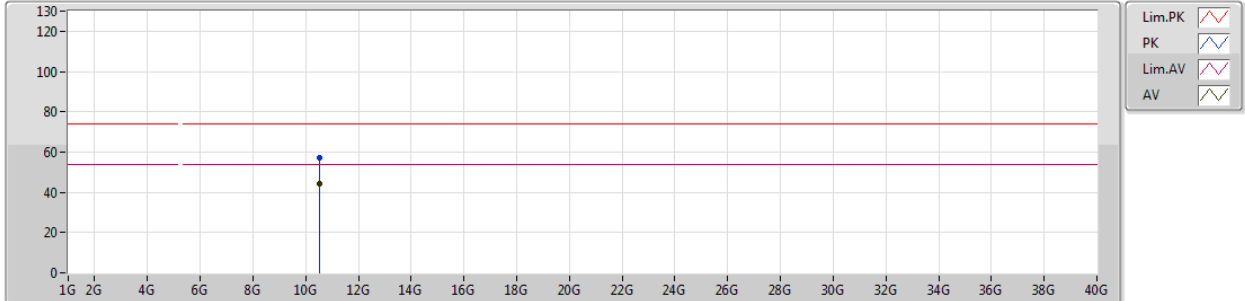


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
AV	10.5197G	48.44	54.00	-5.56	12.98	3	Vertical	159	1.52	-							
PK	10.5191G	61.43	74.00	-12.57	12.98	3	Vertical	159	1.52	-							

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5260MHz_TX

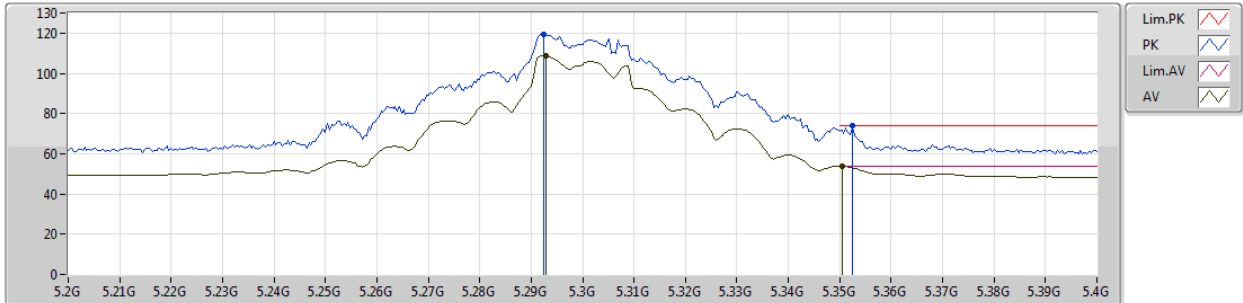


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.5184G	44.12	54.00	-9.88	12.98	3	Horizontal	110	1.52	-
PK	10.5192G	57.04	74.00	-16.96	12.98	3	Horizontal	110	1.52	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5300MHz_TX

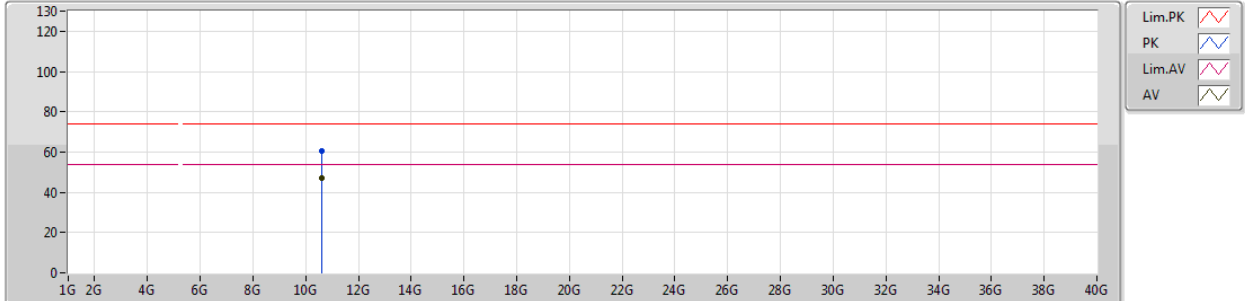


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.2928G	108.55	Inf	-Inf	2.90	3	Vertical	221	1.86	-
AV	5.3504G	53.83	54.00	-0.17	2.97	3	Vertical	221	1.86	-
PK	5.2924G	119.47	Inf	-Inf	2.90	3	Vertical	221	1.86	-
PK	5.3524G	73.88	74.00	-0.12	2.97	3	Vertical	221	1.86	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5300MHz_TX

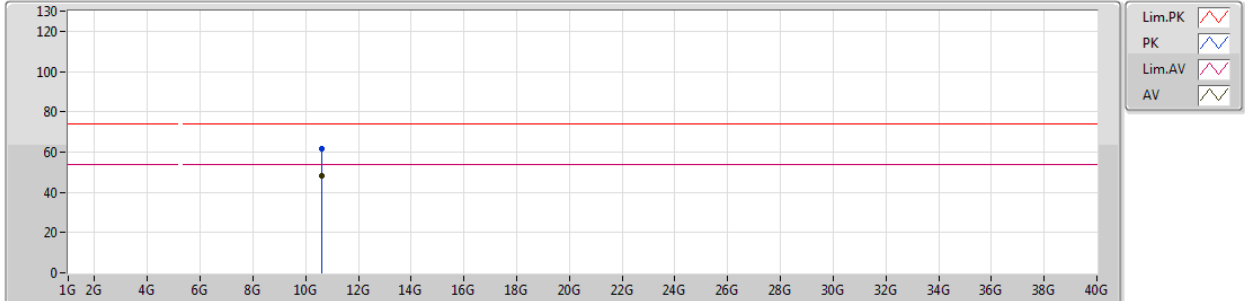


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.5987G	46.87	54.00	-7.13	13.15	3	Vertical	161	1.47	-								
PK	10.597G	60.65	74.00	-13.35	13.15	3	Vertical	161	1.47	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5300MHz_TX

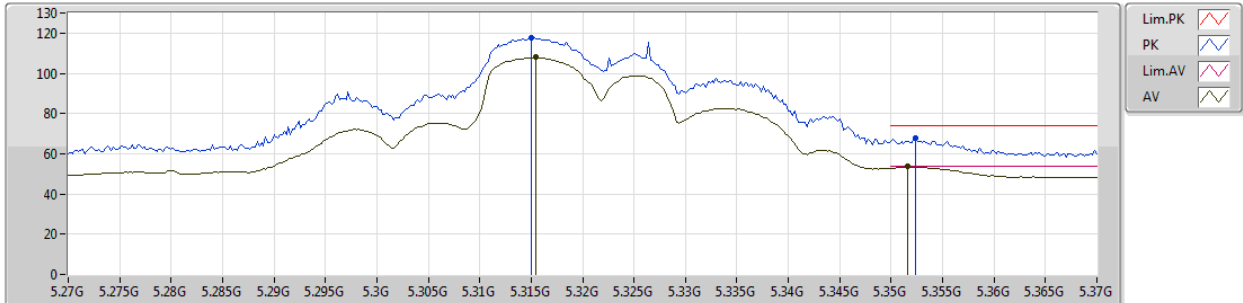


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6028G	48.32	54.00	-5.68	13.16	3	Horizontal	261	1.01	-								
PK	10.6047G	61.57	74.00	-12.43	13.17	3	Horizontal	261	1.01	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5320MHz_TX

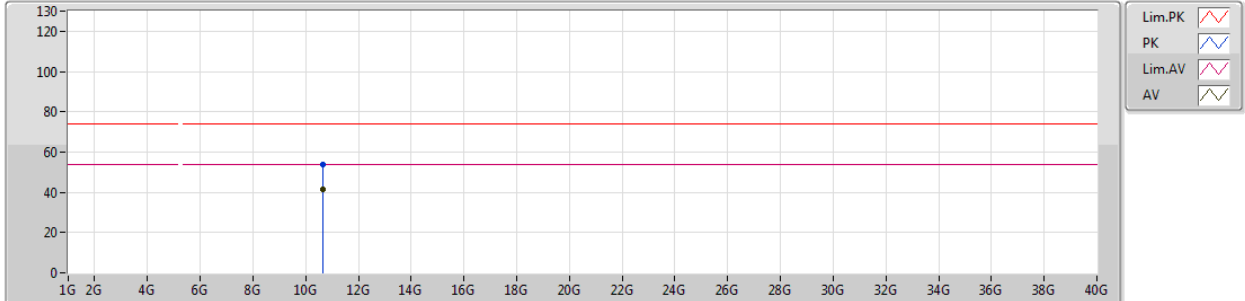


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3154G	107.87	Inf	-Inf	2.93	3	Vertical	215	1.76	-
AV	5.3516G	53.60	54.00	-0.40	2.97	3	Vertical	215	1.76	-
PK	5.315G	117.73	Inf	-Inf	2.93	3	Vertical	215	1.76	-
PK	5.3524G	67.55	74.00	-6.45	2.97	3	Vertical	215	1.76	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5320MHz_TX

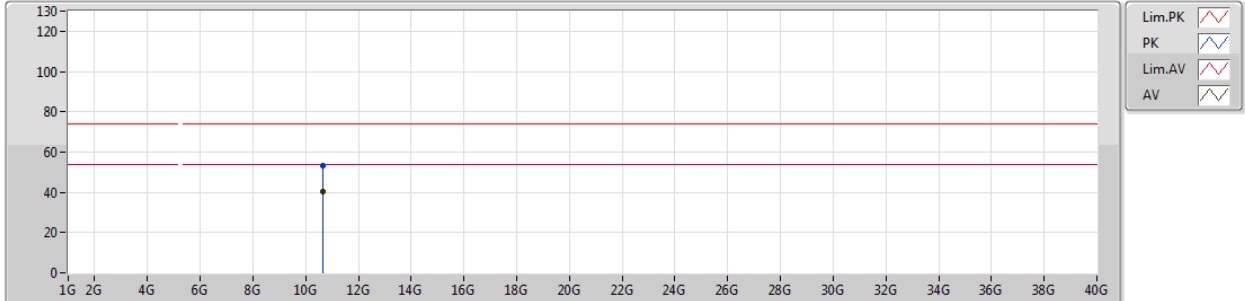


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.6402G	41.42	54.00	-12.58	13.25	3	Vertical	160	1.57	-
PK	10.6363G	53.78	74.00	-20.22	13.24	3	Vertical	160	1.57	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5320MHz_TX

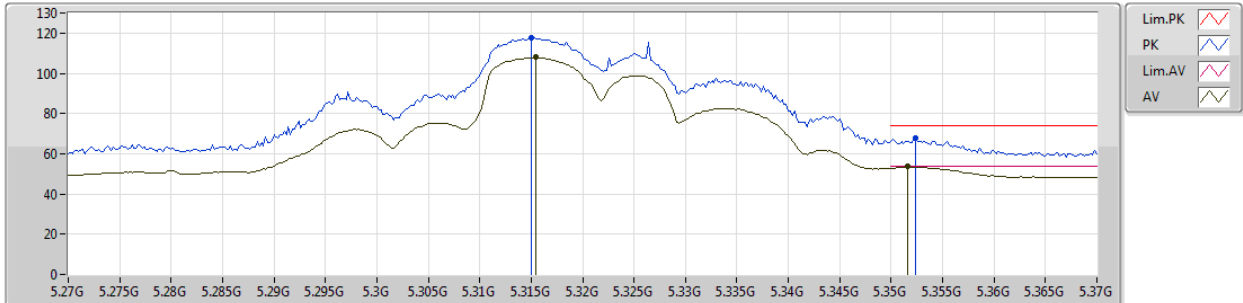


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.6578G	40.36	54.00	-13.64	13.28	3	Horizontal	185	1.50	-
PK	10.6531G	53.44	74.00	-20.56	13.27	3	Horizontal	185	1.50	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5320MHz_TX

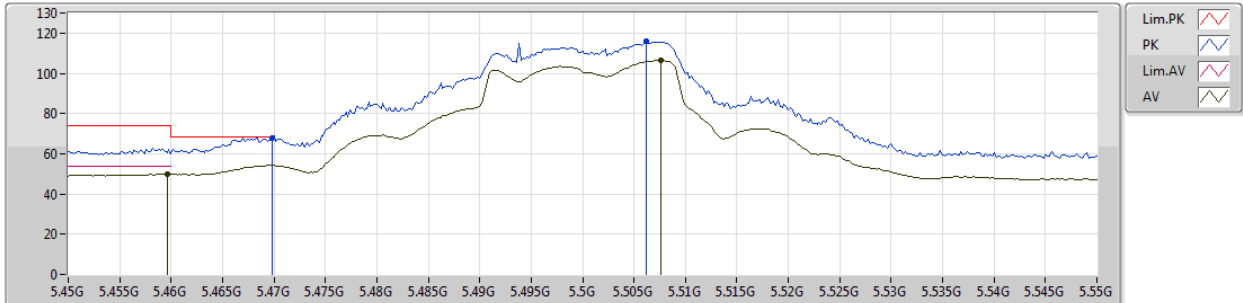


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3154G	107.87	Inf	-Inf	2.93	3	Vertical	215	1.76	-
AV	5.3516G	53.60	54.00	-0.40	2.97	3	Vertical	215	1.76	-
PK	5.315G	117.73	Inf	-Inf	2.93	3	Vertical	215	1.76	-
PK	5.3524G	67.55	74.00	-6.45	2.97	3	Vertical	215	1.76	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5500MHz_TX

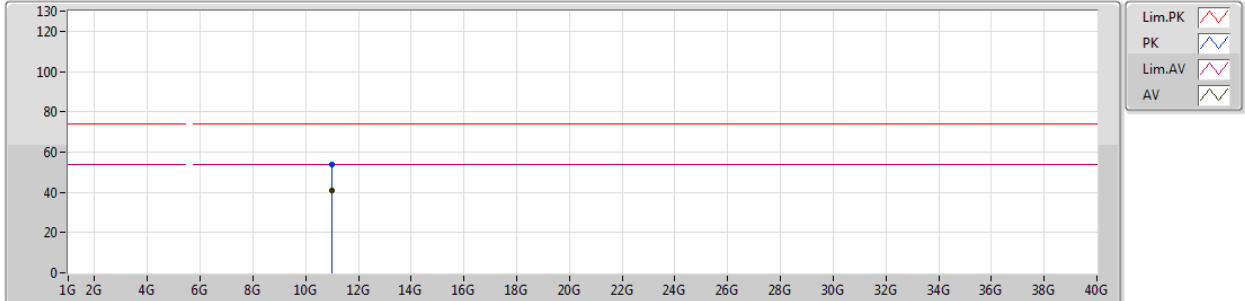


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.4596G	49.88	54.00	-4.12	3.10	3	Vertical	183	1.83	-								
AV	5.5076G	106.46	Inf	-Inf	3.16	3	Vertical	183	1.83	-								
PK	5.4698G	67.75	68.20	-0.45	3.11	3	Vertical	183	1.83	-								
PK	5.5062G	115.90	Inf	-Inf	3.15	3	Vertical	183	1.83	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5500MHz_TX

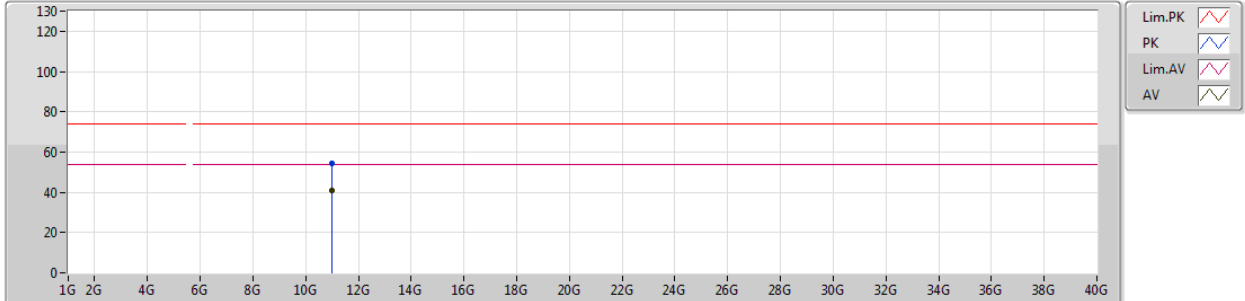


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.98746G	41.02	54.00	-12.98	14.00	3	Vertical	49	1.67	-								
PK	10.98608G	53.85	74.00	-20.15	14.00	3	Vertical	49	1.67	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5500MHz_TX

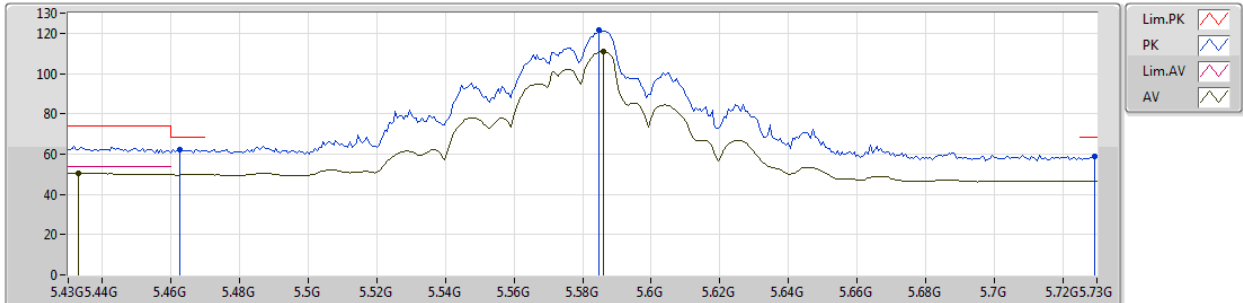


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.99574G	40.97	54.00	-13.03	14.02	3	Horizontal	40	1.50	-								
PK	10.9865G	54.46	74.00	-19.54	14.00	3	Horizontal	40	1.50	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5580MHz_TX

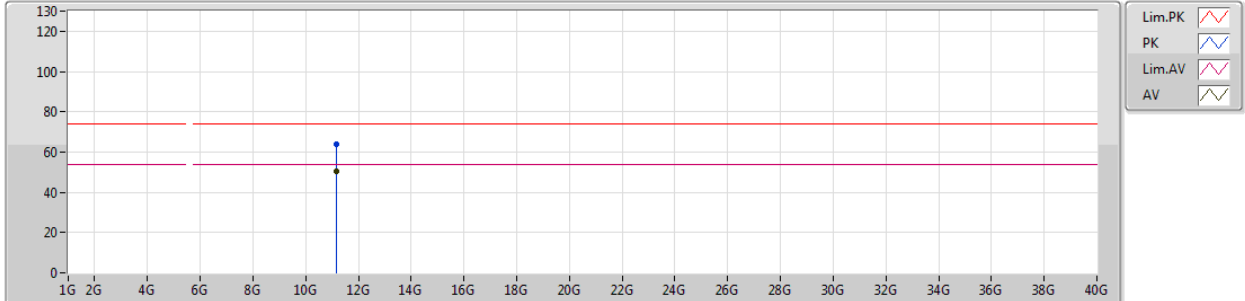


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.433G	50.47	54.00	-3.53	3.06	3	Vertical	236	1.87	-
AV	5.586G	110.86	Inf	-Inf	3.31	3	Vertical	236	1.87	-
PK	5.4624G	62.32	68.20	-5.88	3.10	3	Vertical	236	1.87	-
PK	5.5848G	121.46	Inf	-Inf	3.31	3	Vertical	236	1.87	-
PK	5.7294G	58.92	68.20	-9.28	3.59	3	Vertical	236	1.87	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5580MHz_TX

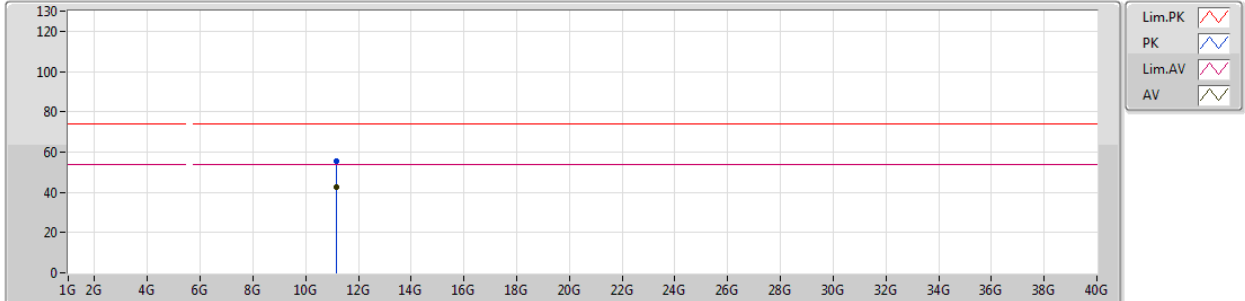


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.16G	50.46	54.00	-3.54	13.89	3	Vertical	49	2.43	-								
PK	11.16078G	63.72	74.00	-10.28	13.88	3	Vertical	49	2.43	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5580MHz_TX

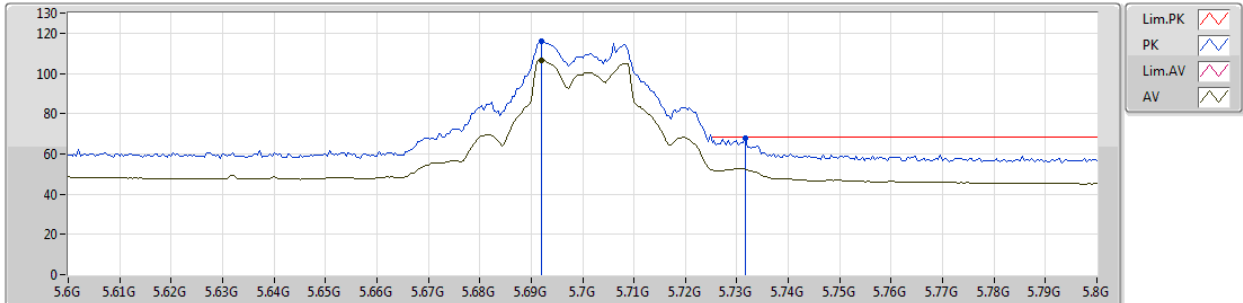


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.15856G	42.65	54.00	-11.35	13.89	3	Horizontal	330	1.35	-								
PK	11.15874G	55.50	74.00	-18.50	13.89	3	Horizontal	330	1.35	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5700MHz_TX

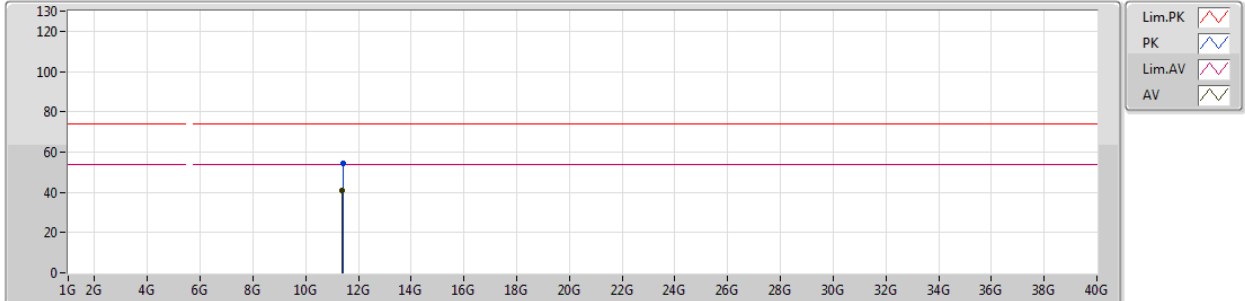


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.692G	106.34	Inf	-Inf	3.52	3	Vertical	244	1.67	-
PK	5.692G	115.75	Inf	-Inf	3.52	3	Vertical	244	1.67	-
PK	5.7316G	67.73	68.20	-0.47	3.59	3	Vertical	244	1.67	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5700MHz_TX

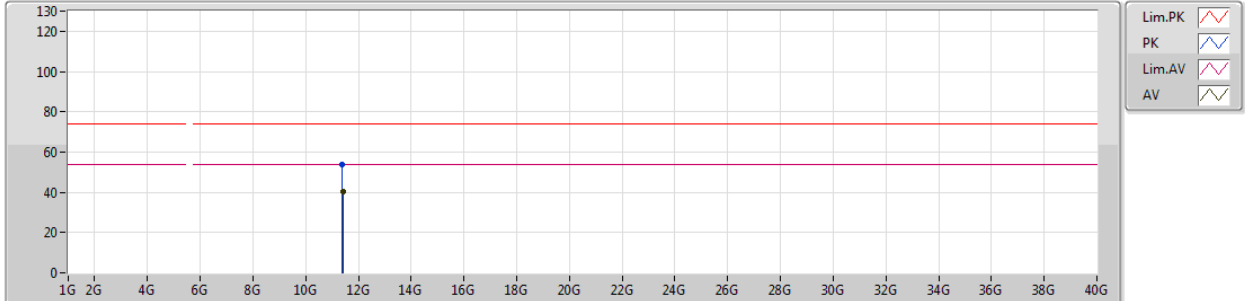


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.39952G	40.78	54.00	-13.22	13.66	3	Vertical	218	2.72	-								
PK	11.40168G	54.40	74.00	-19.60	13.66	3	Vertical	218	2.72	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5700MHz_TX

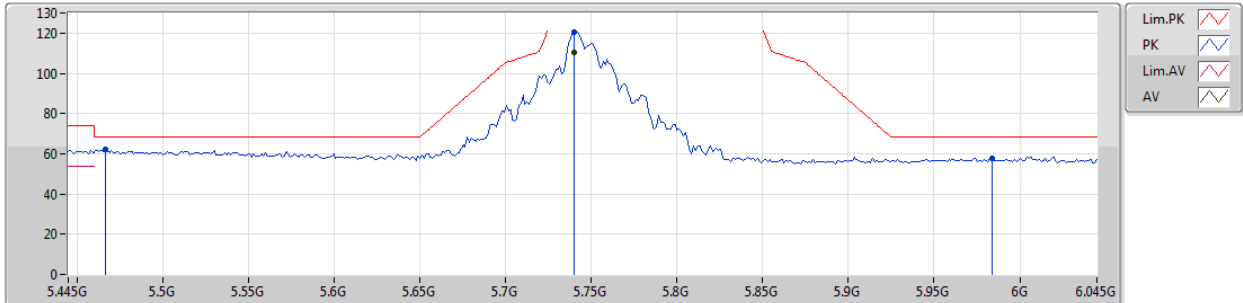


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.40348G	40.22	54.00	-13.78	13.66	3	Horizontal	263	1.15	-								
PK	11.39106G	53.74	74.00	-20.26	13.66	3	Horizontal	263	1.15	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5745MHz_TX

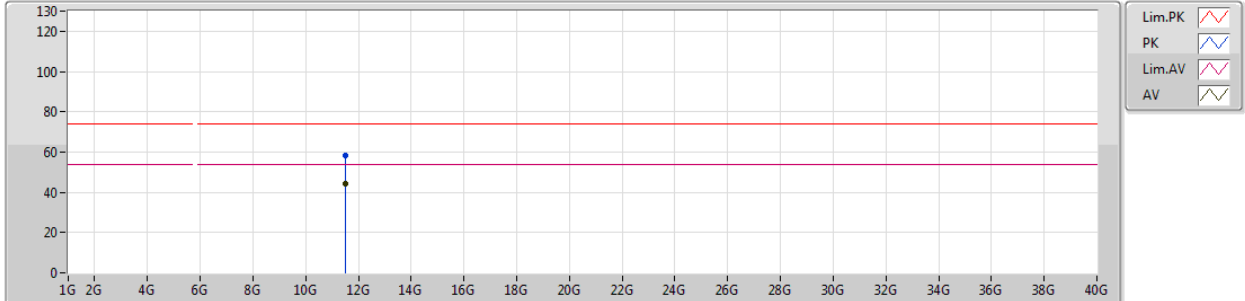


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.7402G	110.45	Inf	-Inf	3.62	3	Vertical	243	1.86	-							
PK	5.4666G	62.34	68.20	-5.86	3.11	3	Vertical	243	1.86	-							
PK	5.7402G	120.58	Inf	-Inf	3.62	3	Vertical	243	1.86	-							
PK	5.9838G	57.85	68.20	-10.35	4.10	3	Vertical	243	1.86	-							

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5745MHz_TX

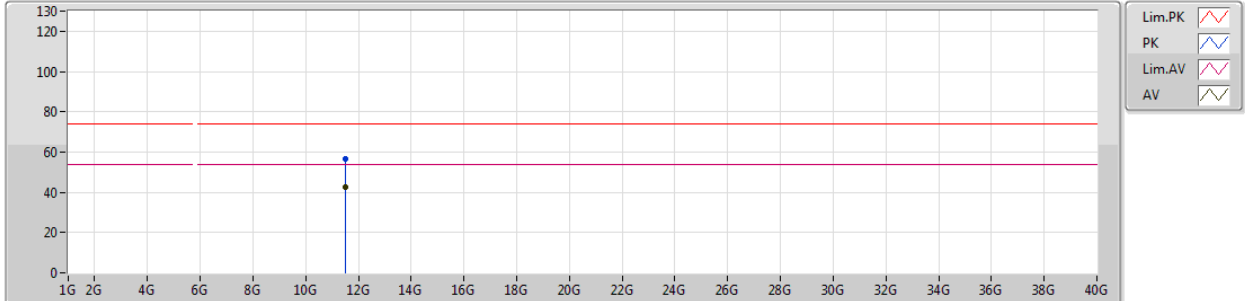


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.4915G	44.21	54.00	-9.79	13.58	3	Vertical	330	2.66	-								
PK	11.4942G	58.34	74.00	-15.66	13.58	3	Vertical	330	2.66	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5745MHz_TX

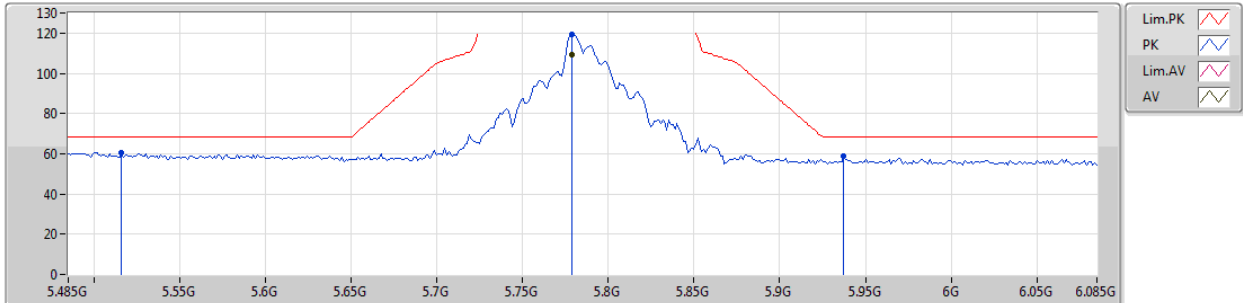


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.49594G	42.85	54.00	-11.15	13.58	3	Horizontal	336	2.99	-								
PK	11.49762G	56.61	74.00	-17.39	13.57	3	Horizontal	336	2.99	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5785MHz_TX

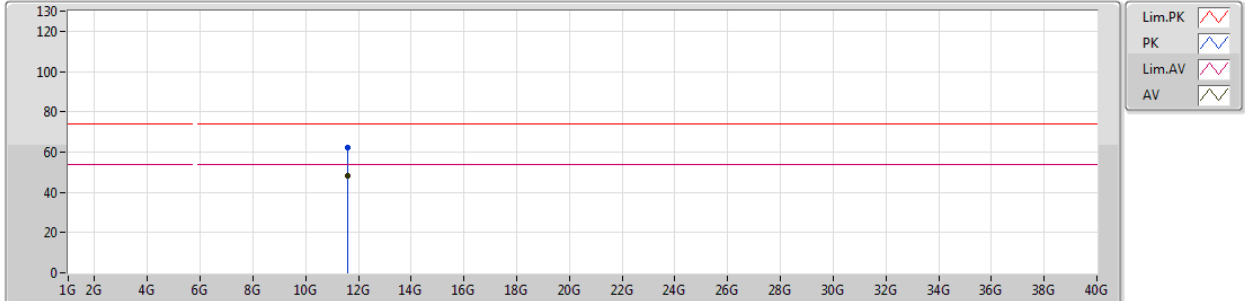


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.779G	109.36	Inf	-Inf	3.69	3	Vertical	240	1.74	-
PK	5.5162G	60.73	68.20	-7.47	3.17	3	Vertical	240	1.74	-
PK	5.779G	119.11	Inf	-Inf	3.69	3	Vertical	240	1.74	-
PK	5.9374G	58.56	68.20	-9.64	4.01	3	Vertical	240	1.74	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5785MHz_TX

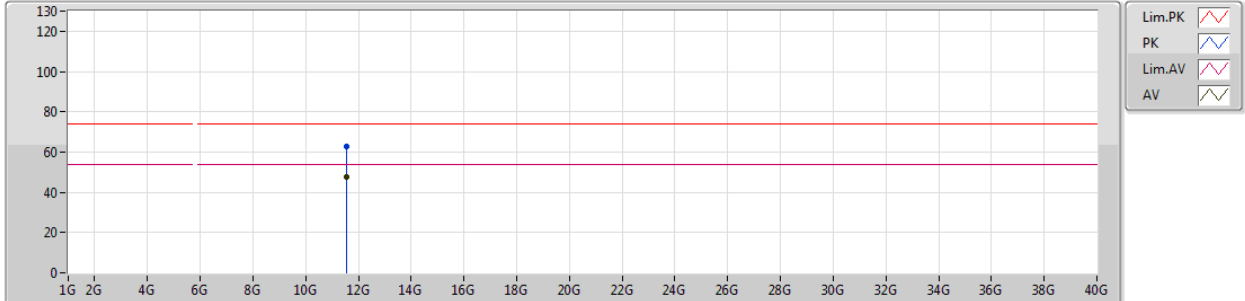


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.57666G	48.39	54.00	-5.61	13.50	3	Vertical	182	2.90	-								
PK	11.57654G	62.19	74.00	-11.81	13.50	3	Vertical	182	2.90	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5785MHz_TX

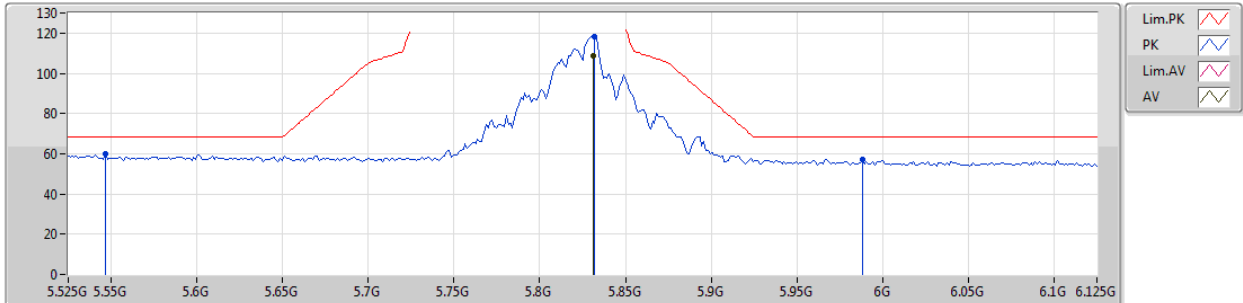


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.56652G	47.71	54.00	-6.29	13.51	3	Horizontal	171	1.00	-								
PK	11.56652G	62.90	74.00	-11.10	13.51	3	Horizontal	171	1.00	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5825MHz_TX

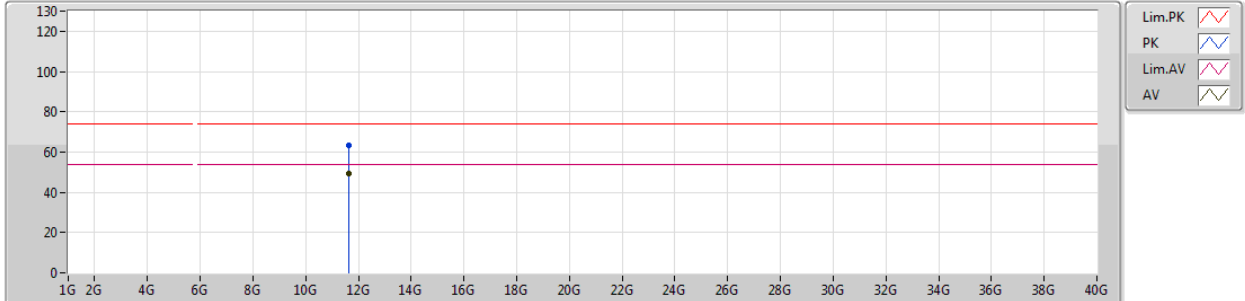


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.831G	108.55	Inf	-Inf	3.79	3	Vertical	234	1.83	-
PK	5.5466G	59.75	68.20	-8.45	3.24	3	Vertical	234	1.83	-
PK	5.8322G	118.27	Inf	-Inf	3.80	3	Vertical	234	1.83	-
PK	5.9882G	57.19	68.20	-11.01	4.10	3	Vertical	234	1.83	-

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5825MHz_TX

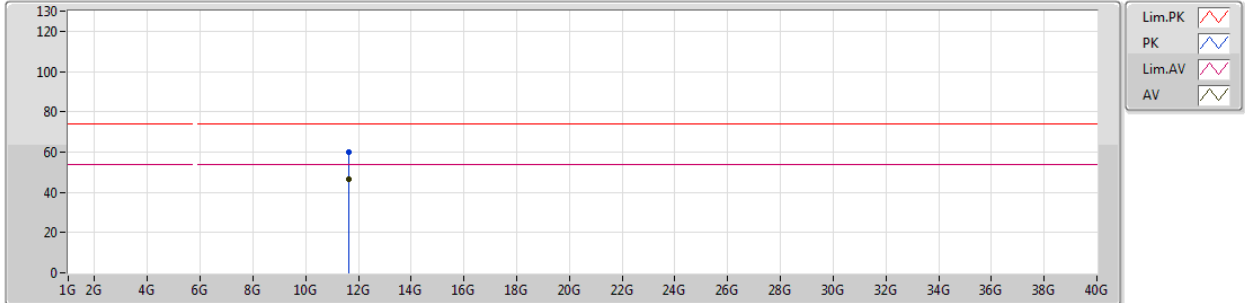


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.64538G	49.13	54.00	-4.87	13.44	3	Vertical	154	2.58	-								
PK	11.64658G	63.32	74.00	-10.68	13.43	3	Vertical	154	2.58	-								

802.11ac VHT20_Nss1,(MCS0)_3TX

11/01/2019

5825MHz_TX

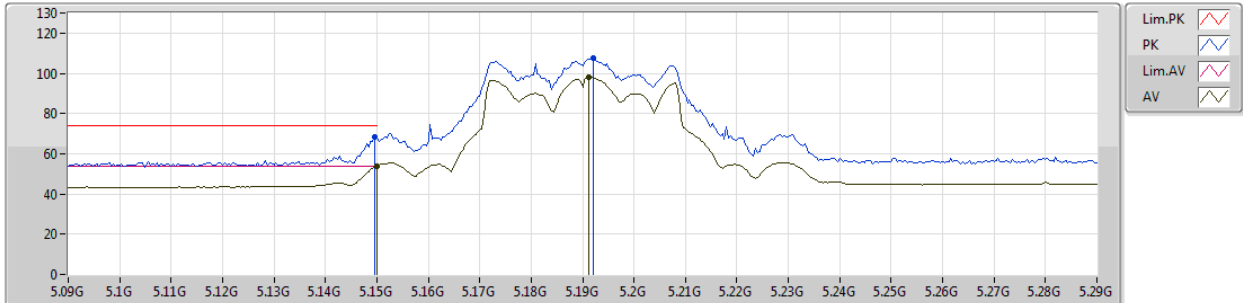


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.64736G	46.62	54.00	-7.38	13.43	3	Horizontal	173	2.16	-								
PK	11.64688G	60.12	74.00	-13.88	13.43	3	Horizontal	173	2.16	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5190MHz_TX

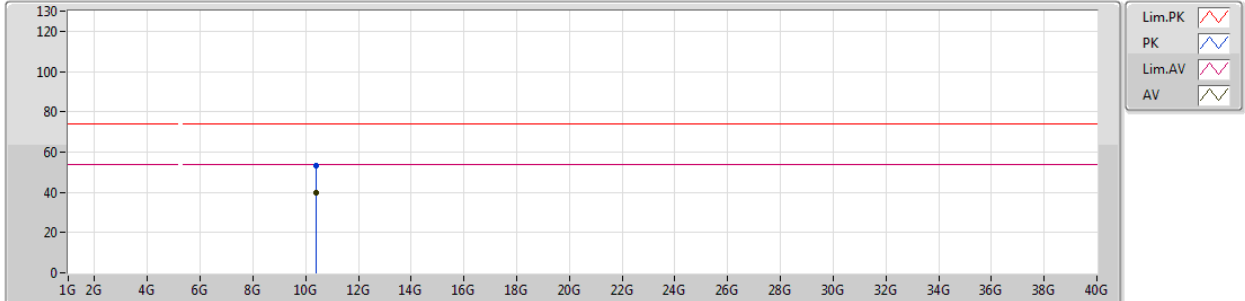


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	53.80	54.00	-0.20	2.74	3	Vertical	94	1.60	-
AV	5.1912G	97.94	Inf	-Inf	2.78	3	Vertical	94	1.60	-
PK	5.1496G	68.39	74.00	-5.61	2.74	3	Vertical	94	1.60	-
PK	5.192G	107.47	Inf	-Inf	2.79	3	Vertical	94	1.60	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5190MHz_TX

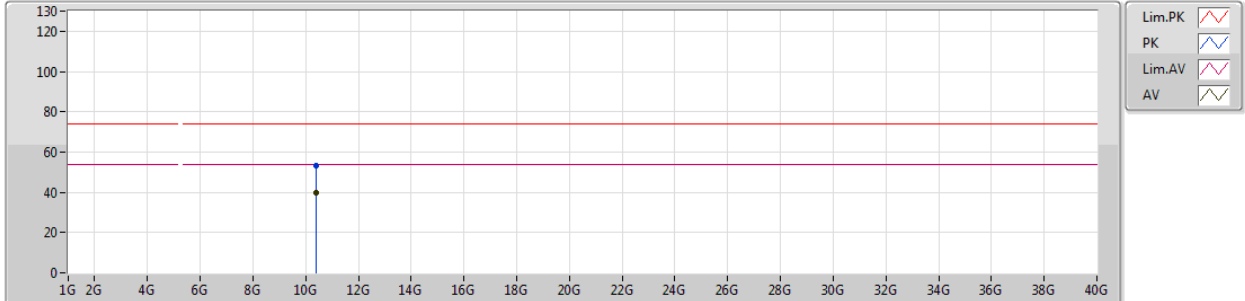


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	10.39308G	39.87	54.00	-14.13	12.71	3	Vertical	1	1.81	-								
PK	10.37952G	53.06	74.00	-20.94	12.67	3	Vertical	1	1.81	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5190MHz_TX

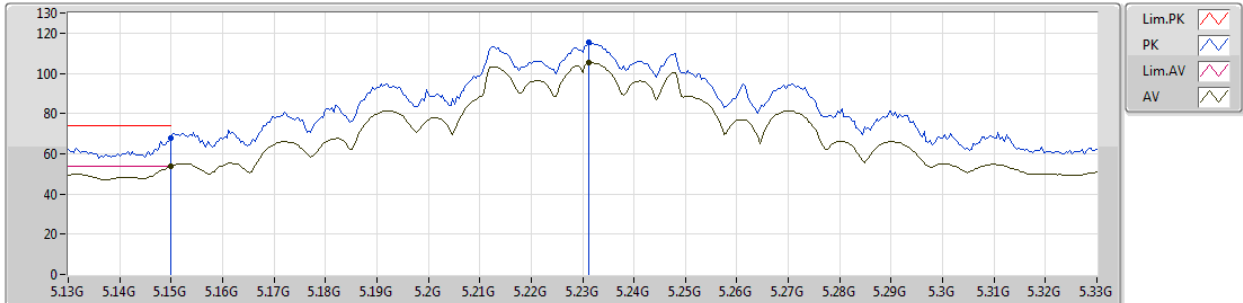


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.39284G	39.85	54.00	-14.15	12.70	3	Horizontal	305	1.50	-
PK	10.38258G	53.16	74.00	-20.84	12.68	3	Horizontal	305	1.50	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5230MHz_TX

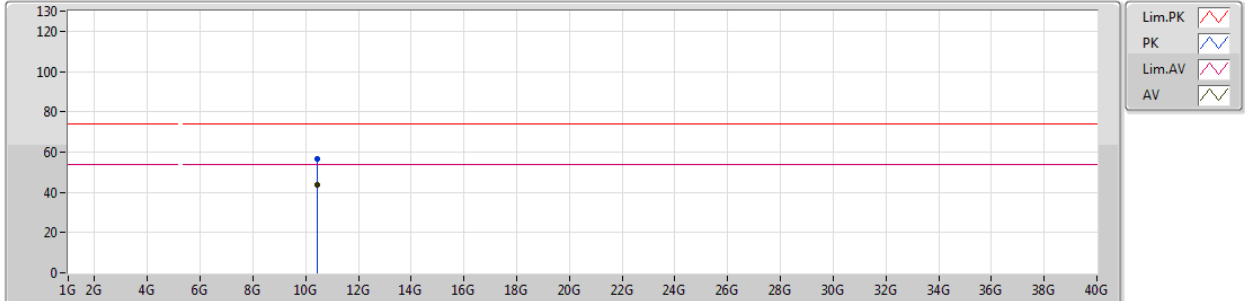


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.15G	53.64	54.00	-0.36	2.74	3	Vertical	52	1.50	-								
AV	5.2312G	105.33	Inf	-Inf	2.83	3	Vertical	52	1.50	-								
PK	5.15G	67.57	74.00	-6.43	2.74	3	Vertical	52	1.50	-								
PK	5.2312G	115.17	Inf	-Inf	2.83	3	Vertical	52	1.50	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5230MHz_TX

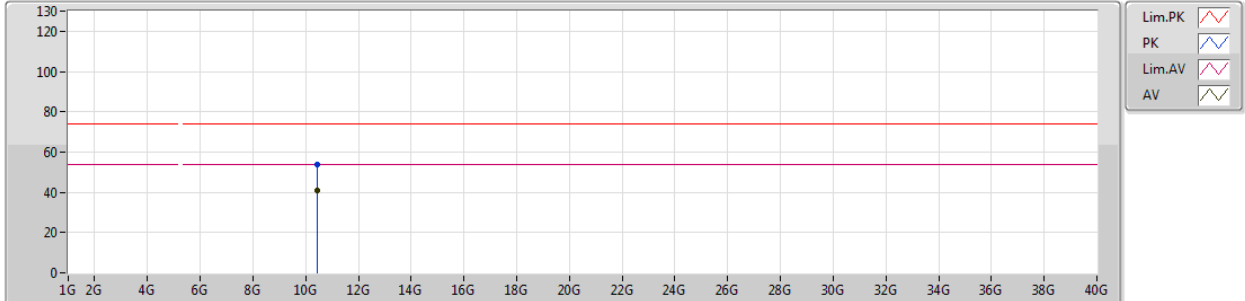


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.45616G	43.61	54.00	-10.39	12.84	3	Vertical	184	1.63	-
PK	10.45862G	56.63	74.00	-17.37	12.84	3	Vertical	184	1.63	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5230MHz_TX

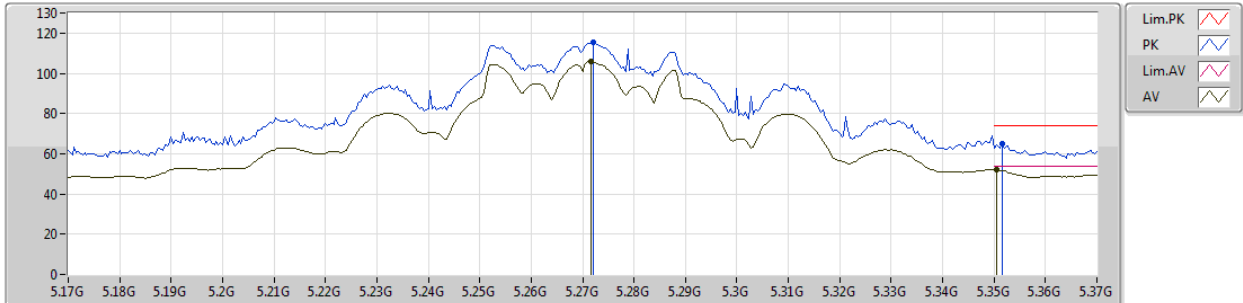


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4579G	40.78	54.00	-13.22	12.84	3	Horizontal	98	1.50	-
PK	10.45454G	53.87	74.00	-20.13	12.84	3	Horizontal	98	1.50	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5270MHz_TX

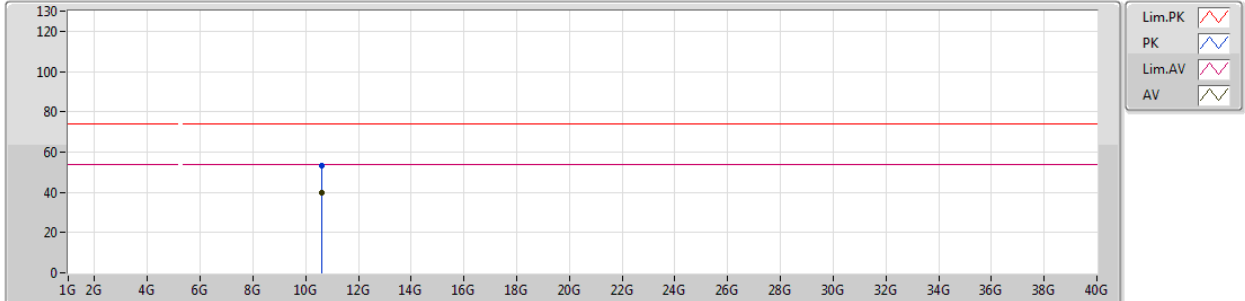


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.2716G	105.67	Inf	-Inf	2.88	3	Vertical	95	1.77	-
AV	5.3504G	51.89	54.00	-2.11	2.97	3	Vertical	95	1.77	-
PK	5.272G	115.31	Inf	-Inf	2.88	3	Vertical	95	1.77	-
PK	5.3516G	65.10	74.00	-8.90	2.97	3	Vertical	95	1.77	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5270MHz_TX

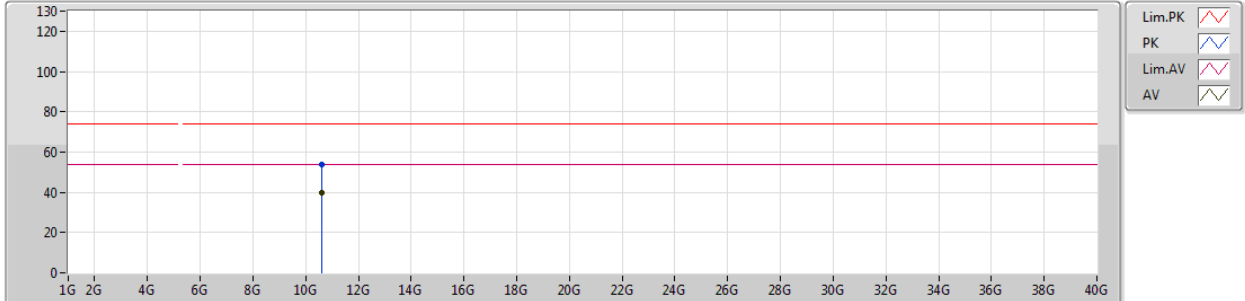


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
AV	10.61022G	39.99	54.00	-14.01	13.18	3	Vertical	159	1.90	-							
PK	10.608G	53.15	74.00	-20.85	13.18	3	Vertical	159	1.90	-							

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5270MHz_TX

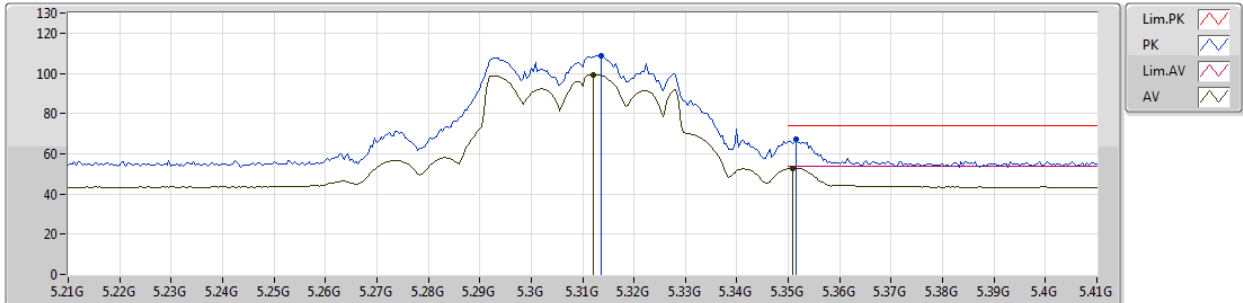


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.60644G	39.95	54.00	-14.05	13.17	3	Horizontal	202	1.50	-
PK	10.61346G	53.57	74.00	-20.43	13.19	3	Horizontal	202	1.50	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5310MHz_TX

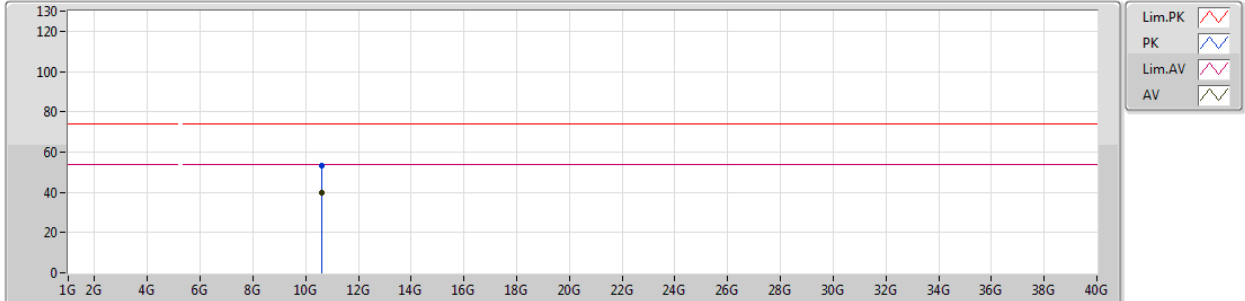


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.312G	99.20	Inf	-Inf	2.93	3	Vertical	51	1.98	-
AV	5.3508G	52.85	54.00	-1.15	2.97	3	Vertical	51	1.98	-
PK	5.3136G	108.93	Inf	-Inf	2.93	3	Vertical	51	1.98	-
PK	5.3516G	67.12	74.00	-6.88	2.97	3	Vertical	51	1.98	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5310MHz_TX

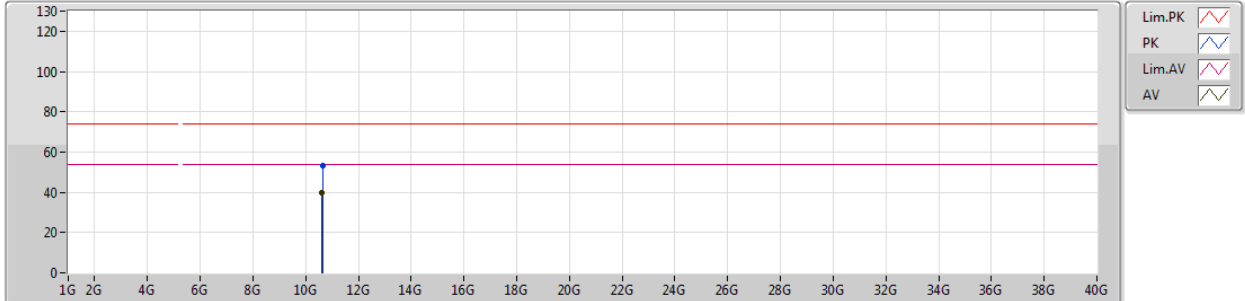


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6068G	39.97	54.00	-14.03	13.17	3	Vertical	41	1.50	-								
PK	10.61262G	53.24	74.00	-20.76	13.19	3	Vertical	41	1.50	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5310MHz_TX

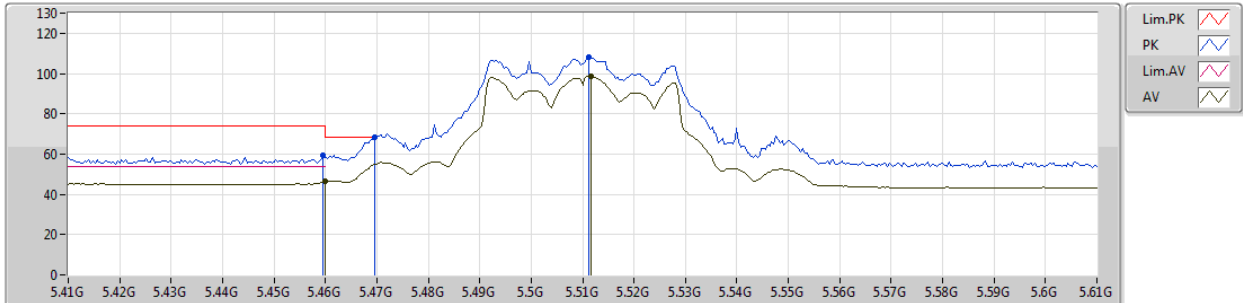


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.61514G	39.94	54.00	-14.06	13.19	3	Horizontal	67	1.50	-
PK	10.6332G	53.14	74.00	-20.86	13.24	3	Horizontal	67	1.50	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5510MHz_TX

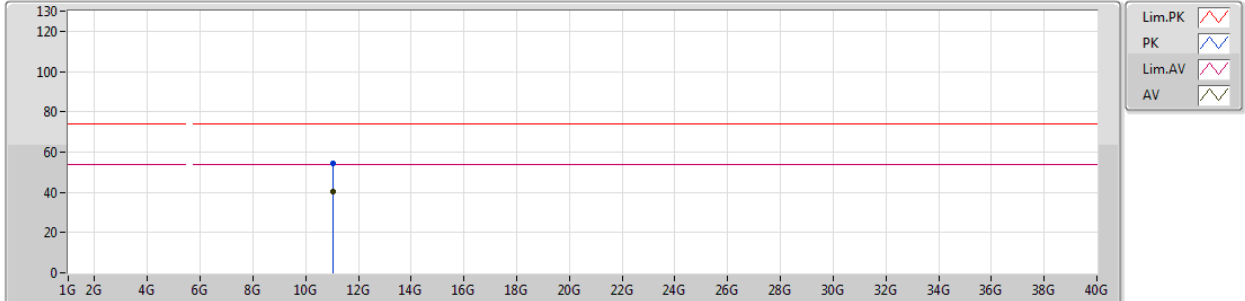


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.46G	46.30	54.00	-7.70	3.10	3	Vertical	237	1.70	-
AV	5.5116G	98.51	Inf	-Inf	3.17	3	Vertical	237	1.70	-
PK	5.4596G	59.26	74.00	-14.74	3.10	3	Vertical	237	1.70	-
PK	5.4696G	68.12	68.20	-0.08	3.11	3	Vertical	237	1.70	-
PK	5.5112G	107.91	Inf	-Inf	3.17	3	Vertical	237	1.70	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5510MHz_TX

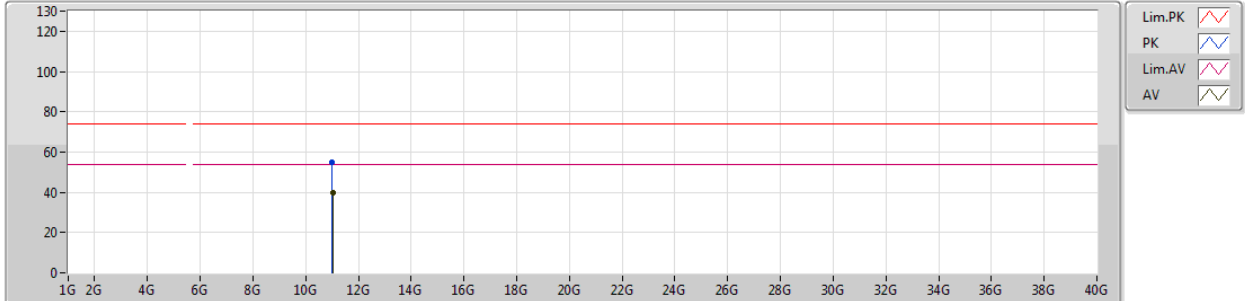


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.0239G	40.56	54.00	-13.44	14.01	3	Vertical	147	1.50	-
PK	11.02G	54.15	74.00	-19.85	14.01	3	Vertical	147	1.50	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5510MHz_TX

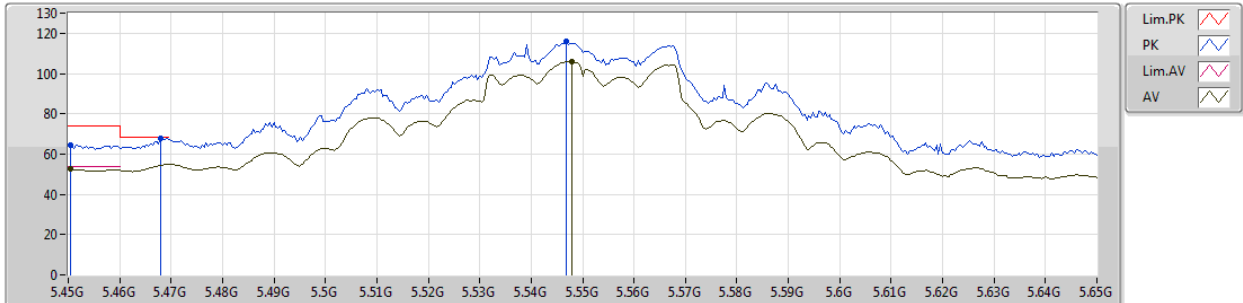


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.03284G	39.87	54.00	-14.13	14.00	3	Horizontal	255	1.32	-								
PK	11.01394G	54.69	74.00	-19.31	14.02	3	Horizontal	255	1.32	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5550MHz_TX

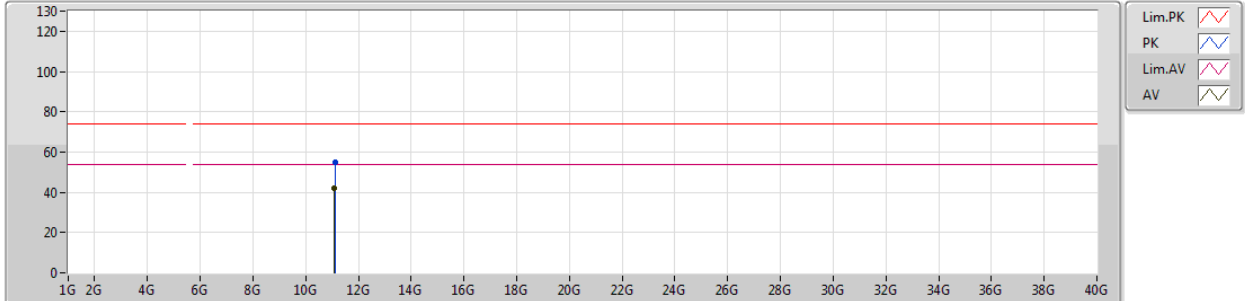


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4504G	52.61	54.00	-1.39	3.09	3	Vertical	233	1.80	-
AV	5.548G	106.01	Inf	-Inf	3.24	3	Vertical	233	1.80	-
PK	5.4504G	64.65	74.00	-9.35	3.09	3	Vertical	233	1.80	-
PK	5.468G	67.74	68.20	-0.46	3.11	3	Vertical	233	1.80	-
PK	5.5468G	115.81	Inf	-Inf	3.24	3	Vertical	233	1.80	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5550MHz_TX

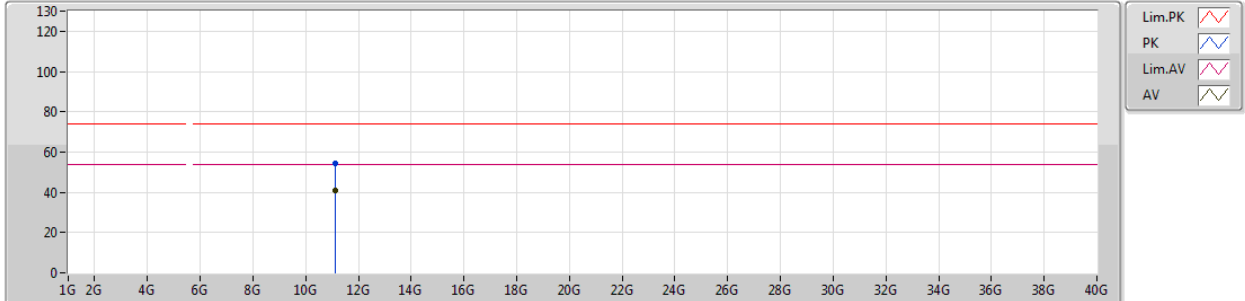


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.08692G	42.01	54.00	-11.99	13.95	3	Vertical	314	1.65	-
PK	11.1108G	54.78	74.00	-19.22	13.92	3	Vertical	314	1.65	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5550MHz_TX

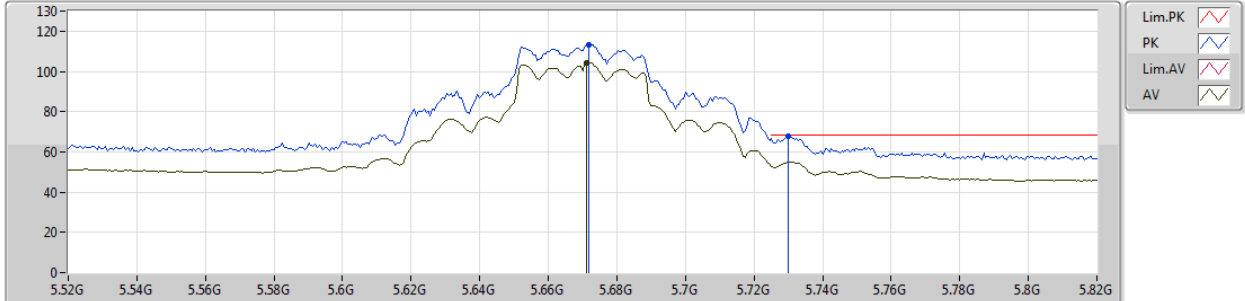


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.10972G	41.08	54.00	-12.92	13.93	3	Horizontal	241	2.66	-								
PK	11.11242G	54.57	74.00	-19.43	13.92	3	Horizontal	241	2.66	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5670MHz_TX

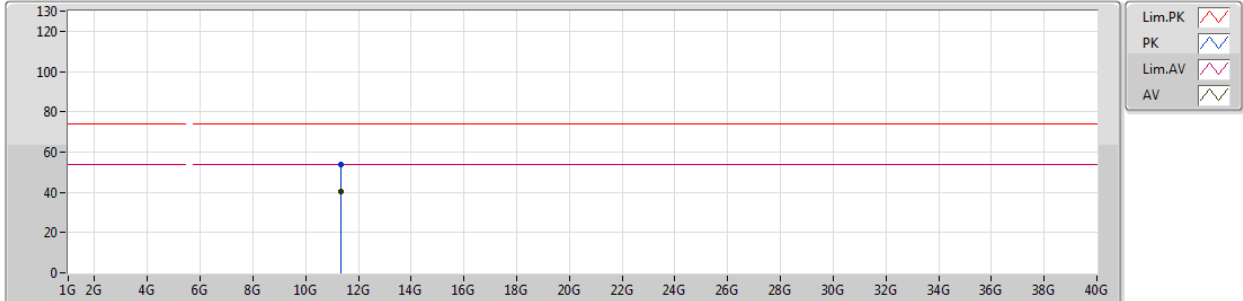


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.6712G	104.47	Inf	-Inf	3.48	3	Vertical	230	1.76	-								
PK	5.6718G	113.28	Inf	-Inf	3.48	3	Vertical	230	1.76	-								
PK	5.73G	67.95	68.20	-0.25	3.59	3	Vertical	230	1.76	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5670MHz_TX

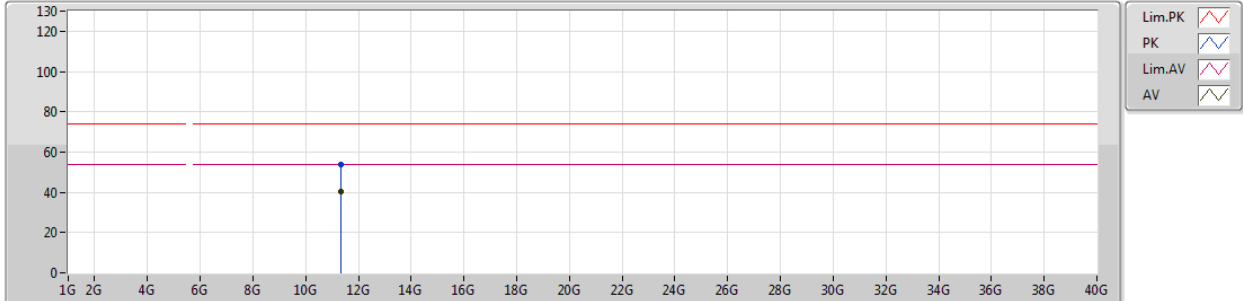


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.34534G	40.32	54.00	-13.68	13.72	3	Vertical	287	1.50	-								
PK	11.32542G	53.86	74.00	-20.14	13.73	3	Vertical	287	1.50	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5670MHz_TX

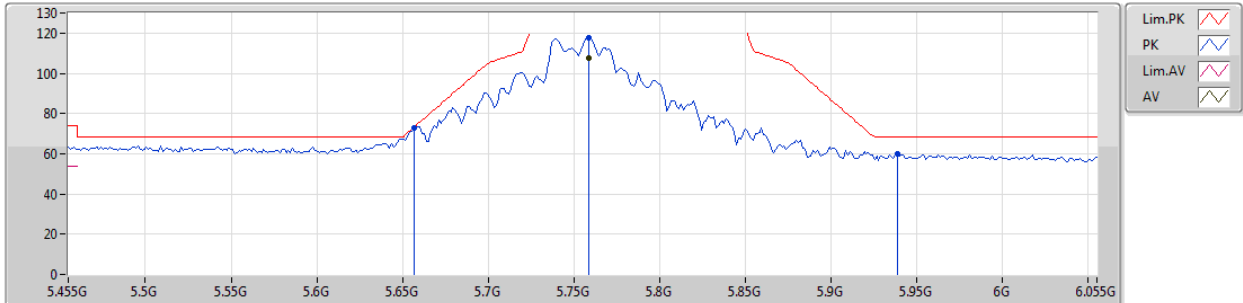


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.35296G	40.27	54.00	-13.73	13.71	3	Horizontal	296	2.73	-
PK	11.35344G	53.96	74.00	-20.04	13.71	3	Horizontal	296	2.73	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5755MHz_TX

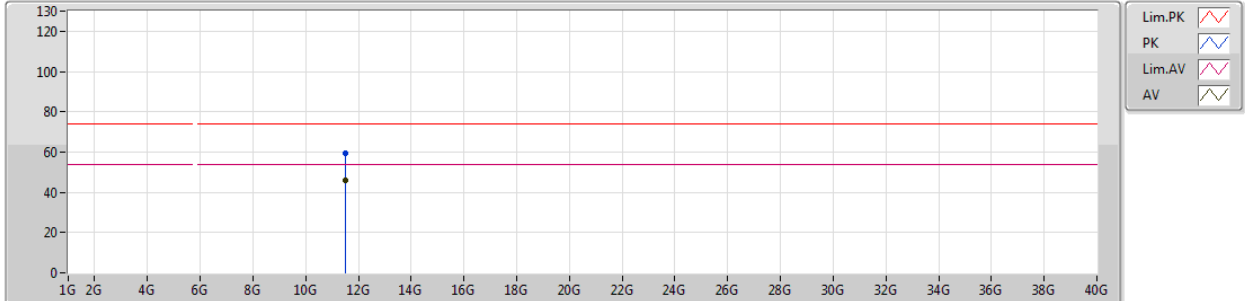


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.7586G	107.57	Inf	-Inf	3.65	3	Vertical	234	1.88	-							
PK	5.6566G	72.74	73.08	-0.34	3.45	3	Vertical	234	1.88	-							
PK	5.7586G	117.80	Inf	-Inf	3.65	3	Vertical	234	1.88	-							
PK	5.9386G	59.93	68.20	-8.27	4.01	3	Vertical	234	1.88	-							

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5755MHz_TX

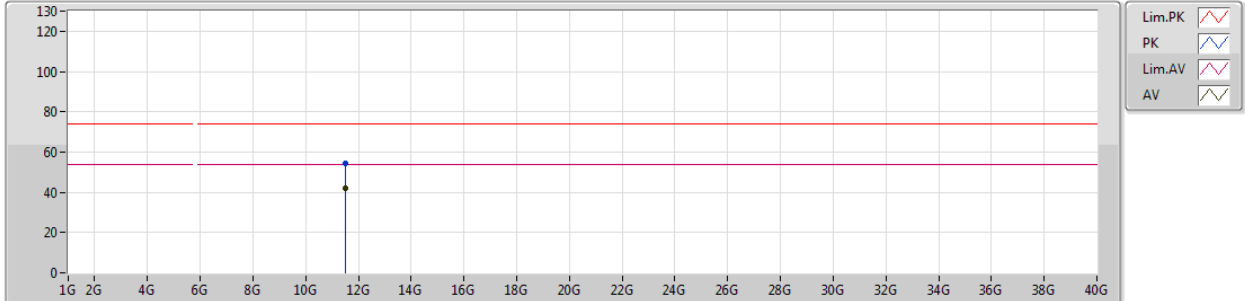


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.5145G	46.13	54.00	-7.87	13.55	3	Vertical	139	2.98	-								
PK	11.51414G	59.23	74.00	-14.77	13.55	3	Vertical	139	2.98	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5755MHz_TX

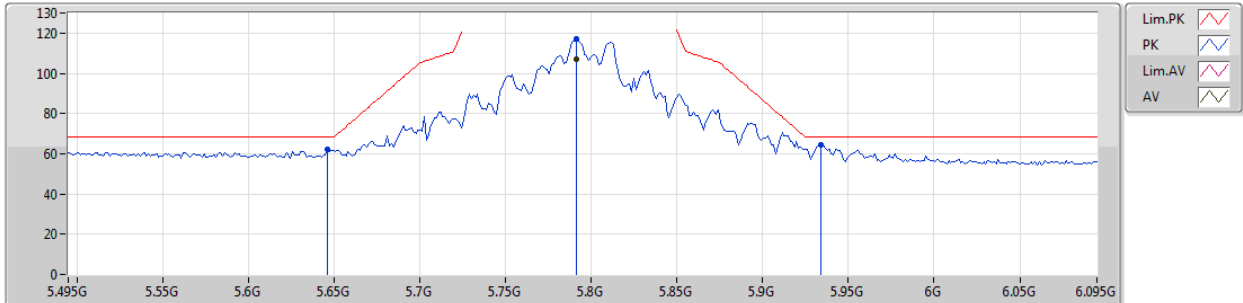


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.51612G	42.13	54.00	-11.87	13.55	3	Horizontal	342	2.99	-
PK	11.5172G	54.36	74.00	-19.64	13.55	3	Horizontal	342	2.99	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5795MHz_TX

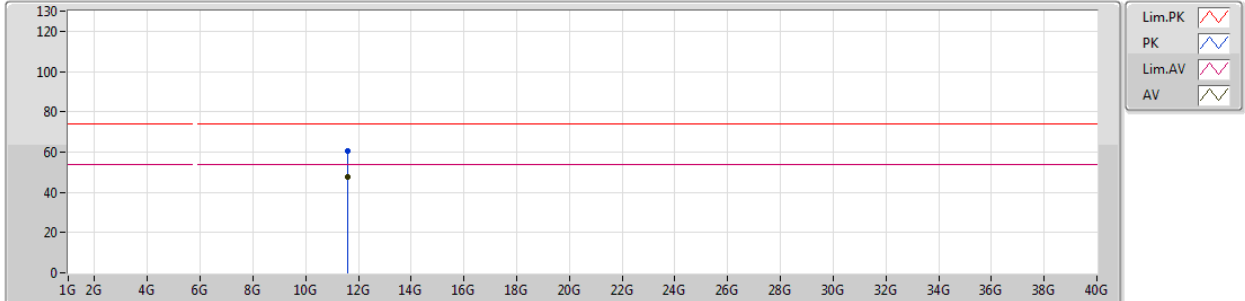


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7914G	106.85	Inf	-Inf	3.71	3	Vertical	229	1.87	-
PK	5.6462G	62.38	68.20	-5.82	3.43	3	Vertical	229	1.87	-
PK	5.7914G	116.92	Inf	-Inf	3.71	3	Vertical	229	1.87	-
PK	5.9342G	64.29	68.20	-3.91	4.00	3	Vertical	229	1.87	-

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5795MHz_TX

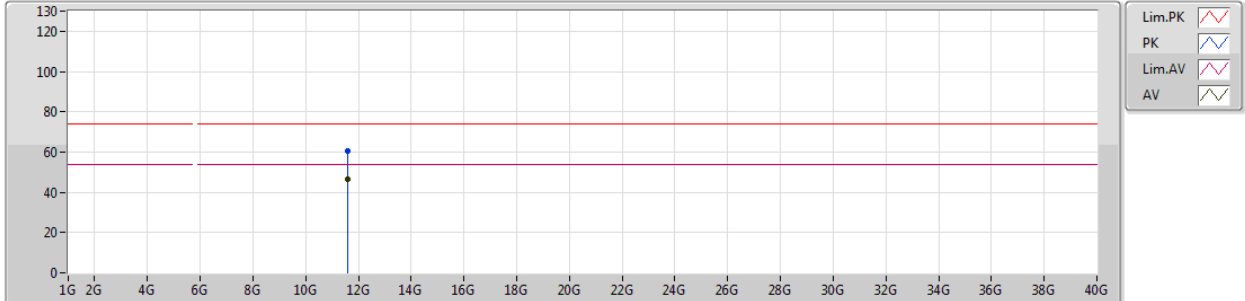


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.58652G	47.71	54.00	-6.29	13.49	3	Vertical	147	2.87	-								
PK	11.58646G	60.75	74.00	-13.25	13.49	3	Vertical	147	2.87	-								

802.11ac VHT40_Nss1,(MCS0)_3TX

11/01/2019

5795MHz_TX

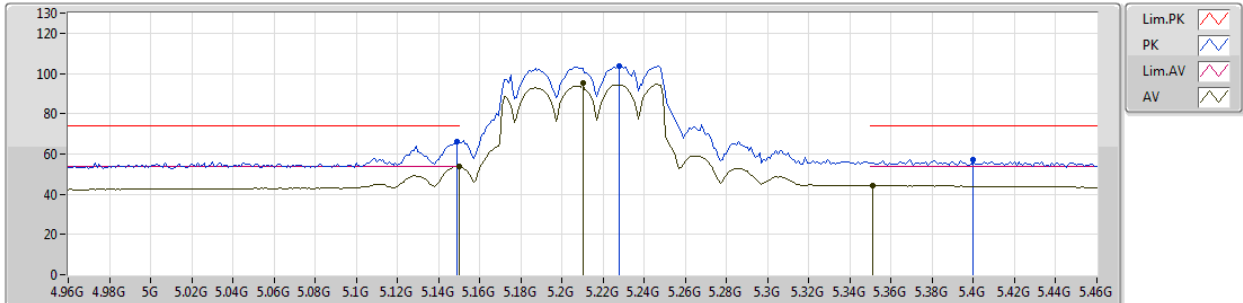


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.58538G	46.32	54.00	-7.68	13.49	3	Horizontal	166	1.02	-								
PK	11.58868G	60.63	74.00	-13.37	13.50	3	Horizontal	166	1.02	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5210MHz_TX

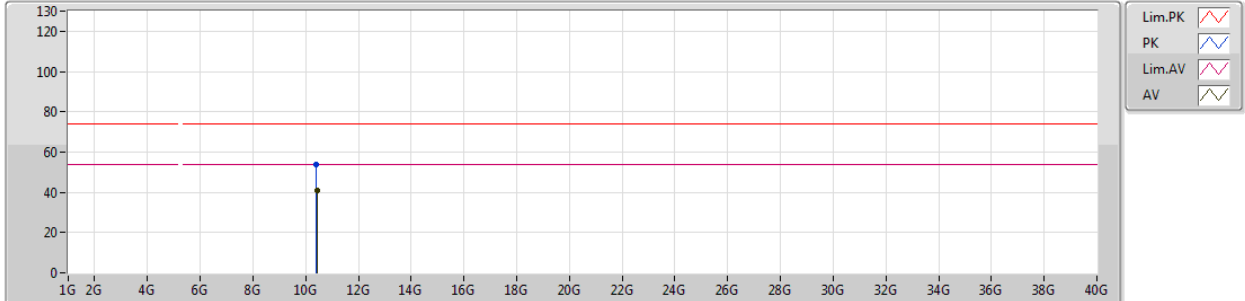


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	53.74	54.00	-0.26	2.74	3	Vertical	229	1.82	-
AV	5.21G	95.22	Inf	-Inf	2.82	3	Vertical	229	1.82	-
AV	5.351G	44.32	54.00	-9.68	2.97	3	Vertical	229	1.82	-
PK	5.149G	66.33	74.00	-7.67	2.74	3	Vertical	229	1.82	-
PK	5.228G	103.92	Inf	-Inf	2.83	3	Vertical	229	1.82	-
PK	5.4G	57.25	74.00	-16.75	3.03	3	Vertical	229	1.82	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5210MHz_TX

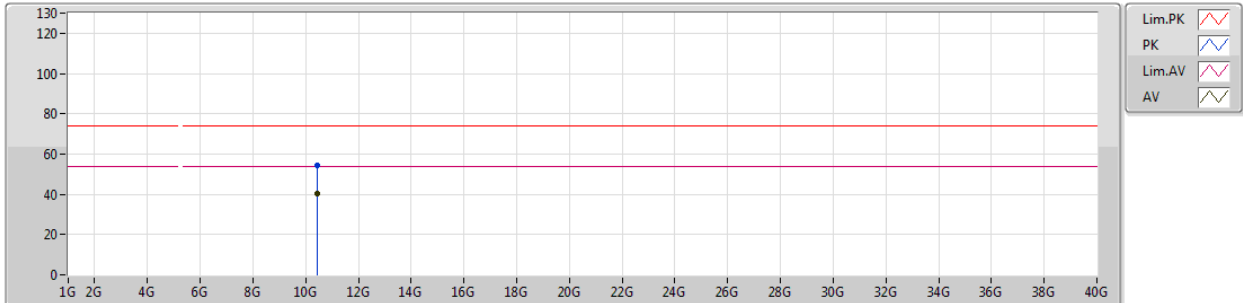


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.43002G	40.69	54.00	-13.31	12.79	3	Vertical	28	1.62	-								
PK	10.4071G	53.83	74.00	-20.17	12.74	3	Vertical	28	1.62	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5210MHz_TX

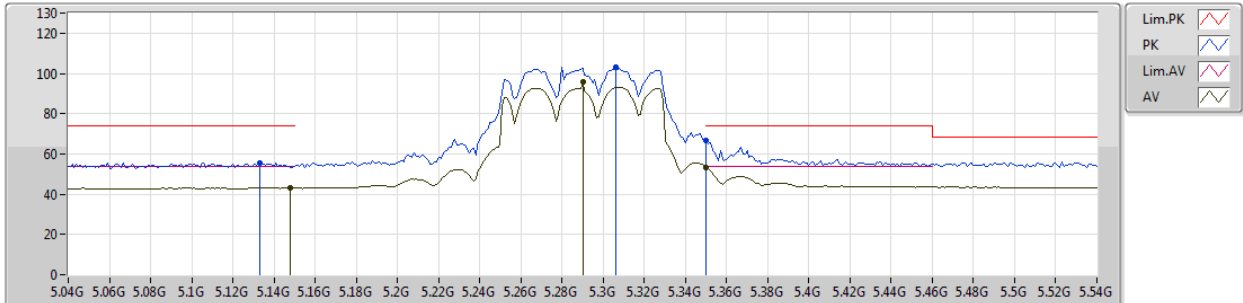


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.42636G	40.58	54.00	-13.42	12.78	3	Horizontal	332	2.10	-								
PK	10.42738G	54.09	74.00	-19.91	12.78	3	Horizontal	332	2.10	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5290MHz_TX

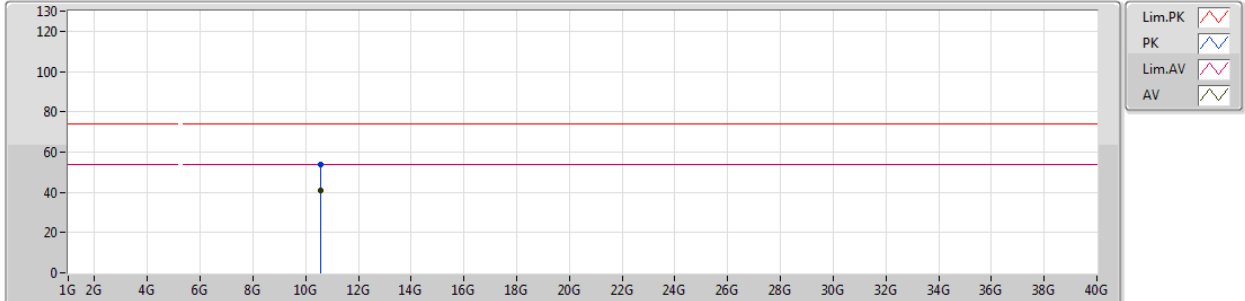


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.148G	43.08	54.00	-10.92	2.74	3	Vertical	229	1.83	-
AV	5.29G	95.97	Inf	-Inf	2.89	3	Vertical	229	1.83	-
AV	5.35G	53.36	54.00	-0.64	2.97	3	Vertical	229	1.83	-
PK	5.133G	55.51	74.00	-18.49	2.72	3	Vertical	229	1.83	-
PK	5.306G	103.28	Inf	-Inf	2.91	3	Vertical	229	1.83	-
PK	5.35G	66.46	74.00	-7.54	2.97	3	Vertical	229	1.83	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5290MHz_TX

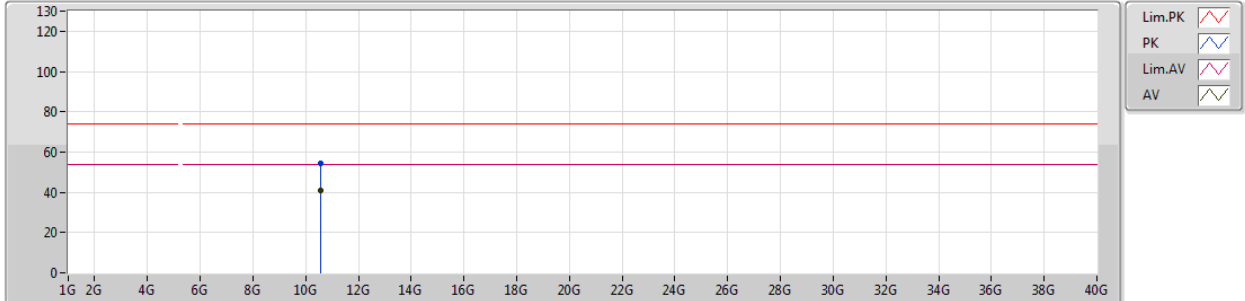


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.58648G	40.73	54.00	-13.27	13.13	3	Vertical	288	2.30	-
PK	10.58708G	53.81	74.00	-20.19	13.13	3	Vertical	288	2.30	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5290MHz_TX

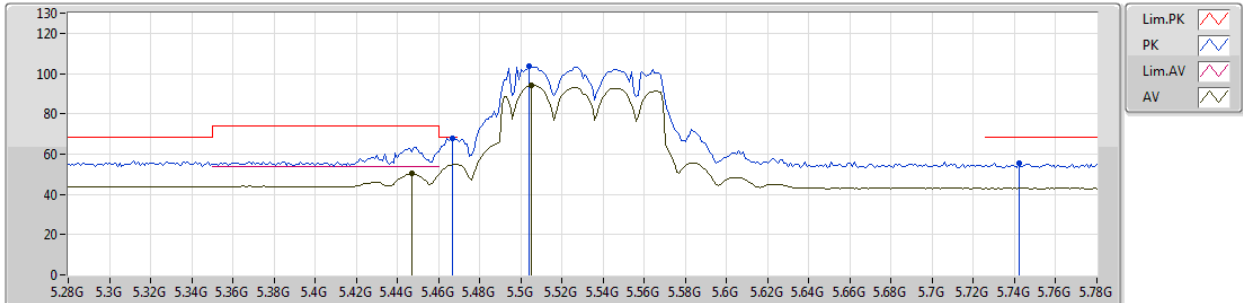


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	10.57178G	40.80	54.00	-13.20	13.10	3	Horizontal	146	1.80	-							
PK	10.56692G	54.31	74.00	-19.69	13.08	3	Horizontal	146	1.80	-							

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5530MHz_TX

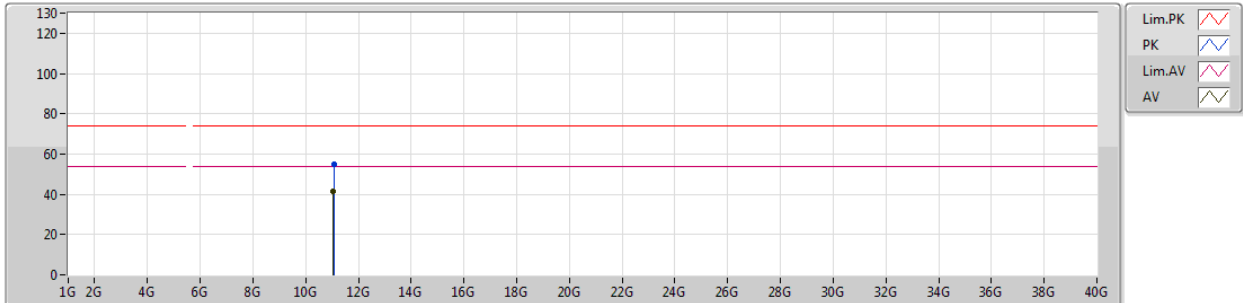


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.447G	50.25	54.00	-3.75	3.08	3	Vertical	228	1.91	-
AV	5.505G	93.97	Inf	-Inf	3.15	3	Vertical	228	1.91	-
PK	5.467G	68.05	68.20	-0.15	3.11	3	Vertical	228	1.91	-
PK	5.504G	103.87	Inf	-Inf	3.15	3	Vertical	228	1.91	-
PK	5.742G	55.73	68.20	-12.47	3.62	3	Vertical	228	1.91	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5530MHz_TX

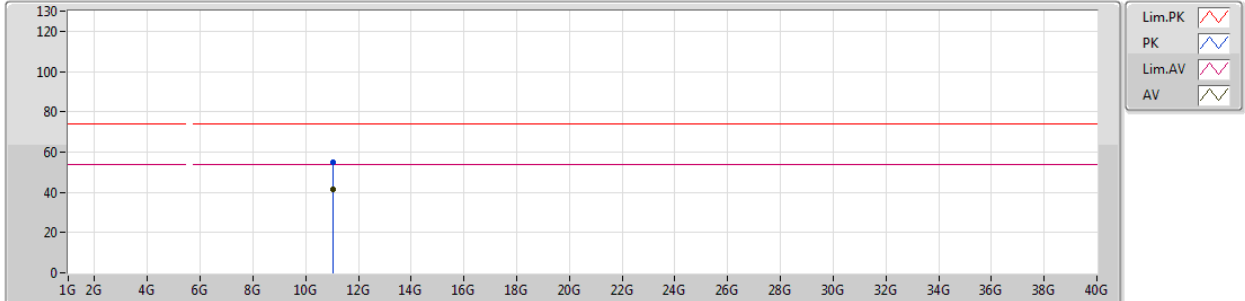


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.05652G	41.53	54.00	-12.47	13.97	3	Vertical	56	1.00	-								
PK	11.06918G	54.70	74.00	-19.30	13.96	3	Vertical	56	1.00	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5530MHz_TX

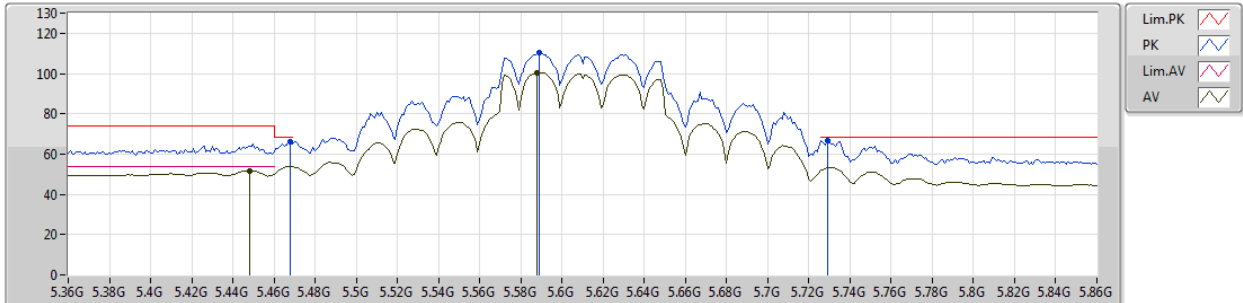


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.05328G	41.63	54.00	-12.37	13.99	3	Horizontal	156	1.72	-								
PK	11.045G	55.16	74.00	-18.84	14.00	3	Horizontal	156	1.72	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5610MHz_TX

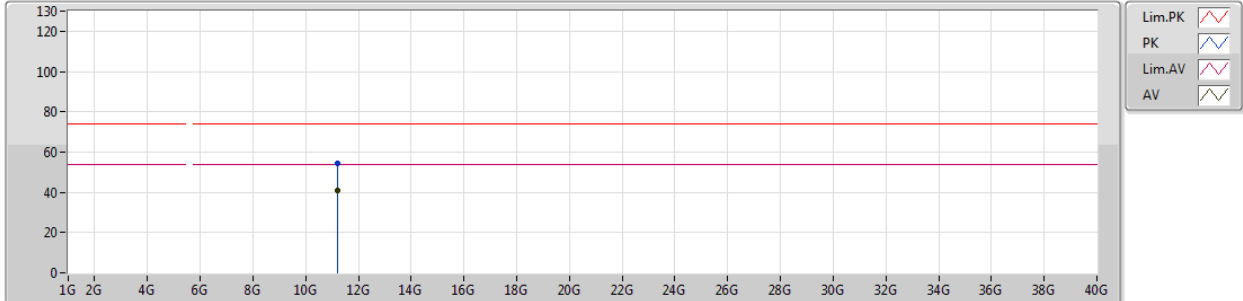


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.448G	51.75	54.00	-2.25	3.08	3	Vertical	233	1.80	-
AV	5.588G	100.54	Inf	-Inf	3.31	3	Vertical	233	1.80	-
PK	5.468G	65.93	68.20	-2.27	3.11	3	Vertical	233	1.80	-
PK	5.589G	110.32	Inf	-Inf	3.31	3	Vertical	233	1.80	-
PK	5.729G	66.60	68.20	-1.60	3.59	3	Vertical	233	1.80	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5610MHz_TX

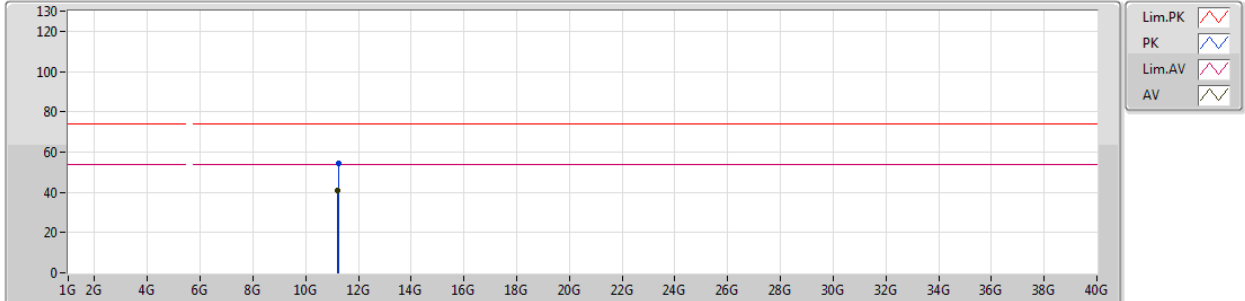


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.2146G	41.13	54.00	-12.87	13.83	3	Vertical	154	2.06	-								
PK	11.21868G	54.48	74.00	-19.52	13.82	3	Vertical	154	2.06	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5610MHz_TX

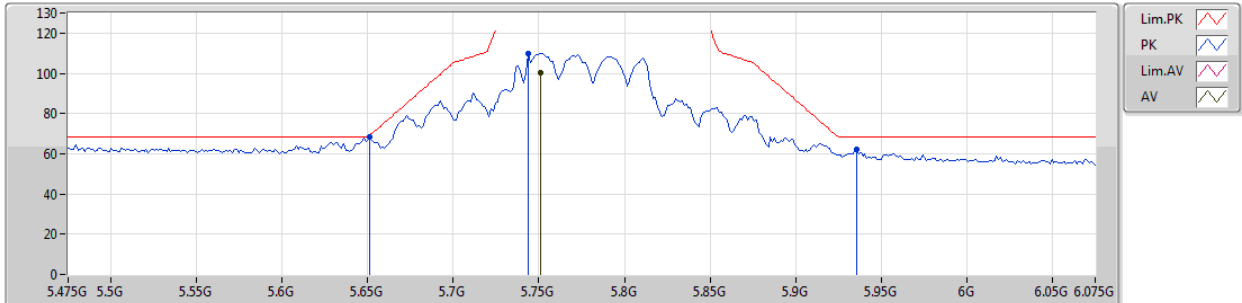


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.21094G	41.00	54.00	-13.00	13.83	3	Horizontal	54	1.50	-								
PK	11.2323G	54.30	74.00	-19.70	13.81	3	Horizontal	54	1.50	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5775MHz_TX

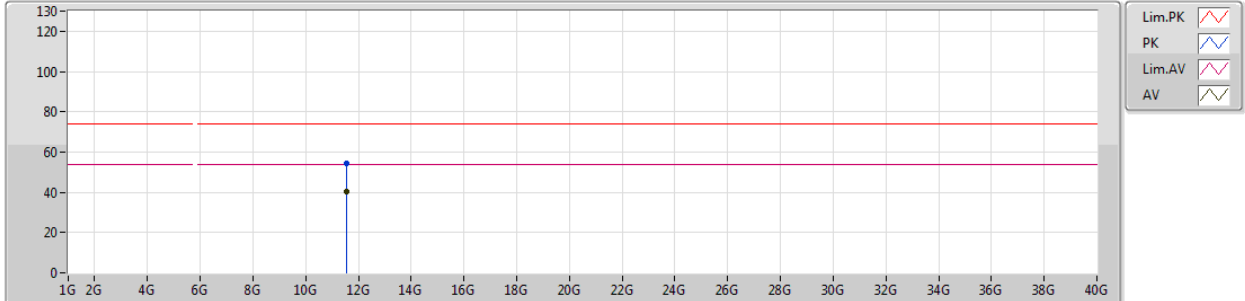


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.751G	100.53	Inf	-Inf	3.64	3	Vertical	228	1.72	-
PK	5.6514G	68.58	69.24	-0.66	3.44	3	Vertical	228	1.72	-
PK	5.7438G	109.94	Inf	-Inf	3.62	3	Vertical	228	1.72	-
PK	5.9358G	62.38	68.20	-5.82	4.01	3	Vertical	228	1.72	-

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5775MHz_TX

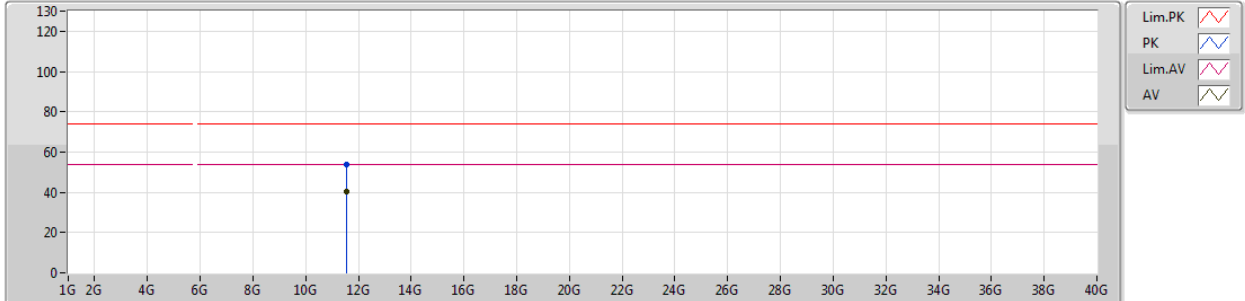


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.54028G	40.51	54.00	-13.49	13.53	3	Vertical	52	2.82	-								
PK	11.55402G	54.42	74.00	-19.58	13.52	3	Vertical	52	2.82	-								

802.11ac VHT80_Nss1,(MCS0)_3TX

12/01/2019

5775MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.56452G	40.55	54.00	-13.45	13.51	3	Horizontal	72	1.50	-								
PK	11.53566G	53.77	74.00	-20.23	13.54	3	Horizontal	72	1.50	-								