

FCC Test Report

Equipment : WiFi 5G Module
Brand Name : UBIQUITI
Model No. : 4x4-5GH3,4x4-5GH4
FCC ID : SWX-M445GH
Standard : 47 CFR FCC Part 15.407
Operating Band : 5470 MHz – 5650 MHz
5725 MHz – 5850 MHz
Applicant : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Manufacturer : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Function : ☒ Outdoor; ☒ Indoor; ☐ Fixed P2P
☒ Client
TPC Function : TPC

This report was evaluated for permissive change. The product sample received on Jan. 11, 2018 and completely tested on Jan. 26, 2018. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Phoenix Chen / Assistant Manager



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Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.3	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied



Revision History

Report No.	Version	Description	Issued Date
FR661623-25AN	Rev. 01	Initial issue of report	Feb. 14, 2018
FR661623-25AN	Rev. 02	Revised table	Feb. 21, 2018
FR661623-25AN	Rev. 03	Revised table	Feb. 22, 2018
FR661623-25AN	Rev. 04	The 80+80MHz mode was evaluated	Mar. 14, 2018

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5470-5650	a, n (HT20), ac (VHT20)	5500-5640	100-128 [8]
5725-5850		5745-5825	149-165 [5]
5470-5650	n (HT40), ac (VHT40)	5510-5630	102-126 [4]
5725-5850		5755-5795	151-159 [2]
5470-5650	ac (VHT80)	5530-5610	106-122 [2]
5725-5850		5775	155 [1]

Beamforming

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT80+80-BF	80	4TX

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 Table for 80+80 MHz Mode

Type	Channel No.	Frequency
14	106+122	5530+5610 MHz

1.1.3 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	-	-	Internal Antenna	I-PEX	10 15
2	2	-	-	Internal Antenna	I-PEX	10 15
3	3	-	-	Internal Antenna	I-PEX	10 15
4	4	-	-	Internal Antenna	I-PEX	10 15

Note: 1: 802.11an/ac used four antennas are for signal transmitting and receiving.(4T4R Spatial Multiplexing MIMO configuration)

1.1.4 EUT Information

Operational Condition			
EUT Power Type	From Host System		
RF Chip	QCA9984		
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.:		UBIQUITI / UWB-XG, UWB-XG-BK
☐	Other:		

1.1.5 Mode Test Duty Cycle

Beamforming

< Antenna Gain 10dBi>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.923	0.348	1.759m	1k
802.11ac VHT40-BF	0.894	0.487	1.694m	1k
802.11ac VHT80-BF	0.921	0.357	1.949m	1k
802.11ac VHT80+80-BF	0.925	0.339	1.95m	1k

< Antenna Gain 15dBi>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.917	0.376	1.759m	1k
802.11ac VHT40-BF	0.917	0.376	1.694m	1k
802.11ac VHT80-BF	0.924	0.343	1.95m	1k
802.11ac VHT80+80-BF	0.841	0.752	1.95m	1k

1.1.6 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
4x4-5GH3	for UNII-2C
4x4-5GH4	for UNII-3

1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR661623-21

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Enable indoor AP mode and outdoor AP mode operation. 2. Enable 5GHz transmit beamforming operation in Band3+4 by software. 3. Off Band 5650 MHz ~ 5725 MHz by software.	All

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
RF Conducted	TH01-HY	Barry	22.8°C / 65%	12/Jan/2018
Radiated	03CH09-HY	Eric	25.8°C / 55%	26/Jan/2018
AC Conduction	CO04-HY	Thor	24.5°C / 53%	25/Jan/2018

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)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 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%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V
Freq. Stability	Abbreviation	Remark
-10°C	-	-
0°C	-	-
10°C	-	-
20°C	-	-
30°C	-	-
40°C	-	-
50°C	-	-
60°C	-	-
70°C	-	-
102V	-	-
120V	-	-
138V	-	-

2.2 Test Channel Mode

Beamforming

Test Software Version	DoS
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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	PoE Mode (5G TXBF)

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

Note : The applicant set the same power for all of the non-BF mode (indoor/outdoor/client), so all modes of non-BF (indoor/outdoor/client) were the same, so test result of the non-BF indoor and non-BF outdoor were covered by non-BF client.

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	PoE Mode (5G TXBF)		
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 – RF Conducted(Beamforming)				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DOC
2	Adapter for NB	DELL	HA65NM130	DOC
3	Notebook	DELL	E5410	DOC
4	Adapter for NB	DELL	HA65NM130	DOC
5	PoE for Fixture	UBIQUITI	GP-C500-120G	N/A
6	PoE for Client	UBIQUITI	GP-C500-120G	N/A
7	AC Source	GW	APS-9102	N/A
8	Test Fixture	N/A	N/A	N/A
9	Client	N/A	N/A	N/A
10	Notebook	DELL	E5410	DOC
11	Adapter for NB	DELL	HA65NM130	DOC

Note: Support equipment No.8 and 9 was provided by customer.

Support Equipment – Radiated Emission(Beamforming)				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Test Fixture	N/A	N/A	N/A
2	Client (Remote Workstation)	UBNT	4x4-5GH_C2PC	N/A
3	Notebook for EUT (Remote Workstation)	DELL	E4300	N/A
4	Notebook for Client (Remote Workstation)	DELL	E4300	N/A
5	PoE for Fixture (Remote Workstation)	UBIQUITI	GP-C500-120G	N/A
6	PoE for Client (Remote Workstation)	UBIQUITI	GP-C500-120G	N/A

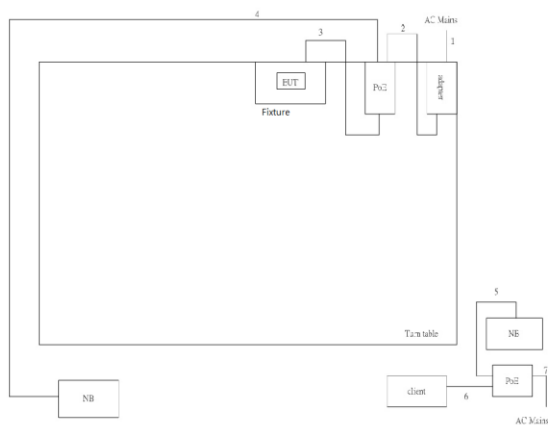
Note: Support equipment No.1 and 2 was provided by customer.

Support Equipment – AC Conduction(Beamforming)				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE for EUT	UBIQUITI	GP-C500-120G	N/A
2	Test Fixture(	N/A	N/A	N/A
3	Client (Remote Workstation)	UBNT	4x4-5GH_C2PC	N/A
4	Notebook for Client (Remote Workstation)	DELL	E4300	N/A
5	PoE for Client (Remote Workstation)	UBIQUITI	GP-C500-120G	N/A
6	Notebook for EUT (Remote Workstation)	DELL	E4300	N/A
7	PoE For Fixture	UBIQUITI	GP-C500-120G	N/A
8	Adapter for PoE	D-Link	DSA-0421S-50	N/A

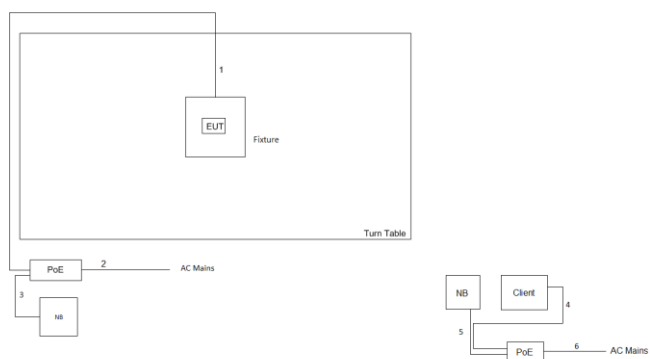
Note: Support equipment No.2 and 3 was provided by customer.

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Beamforming)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Line	No	1	-
2	DC Power Line	No	1.5	-
3	LAN Cable	No	1	-
4	LAN Cable	No	10	-
5	LAN Cable	No	1	-
6	LAN Cable	No	1	-
7	AC Power Line	No	1.5	-

Test Setup Diagram - Radiated Test (Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	RJ-45 Cable	No	10	-
2	AC power line	No	1	-
3	RJ-45Cable	No	1	-
4	RJ-45 Cable	No	1	-
5	RJ-45Cable	No	1	-
6	AC power line	No	1.8	-

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.

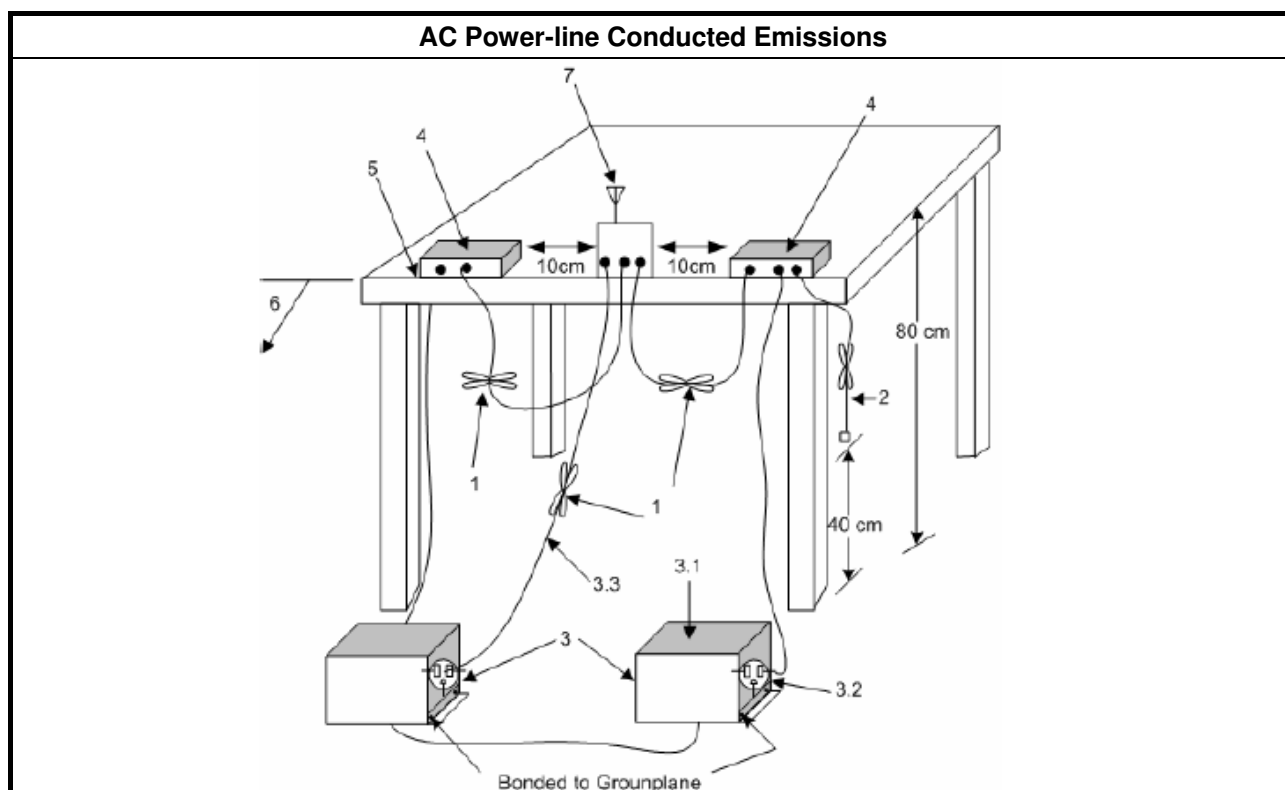
3.1.2 Measuring Instruments

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, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

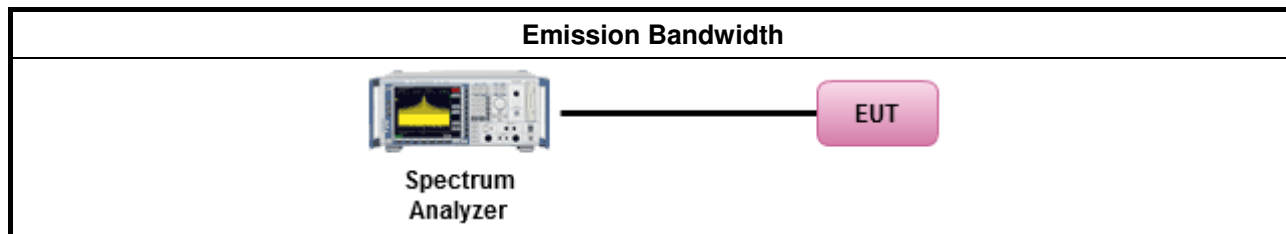
3.2.2 Measuring Instruments

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 6.6 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.	

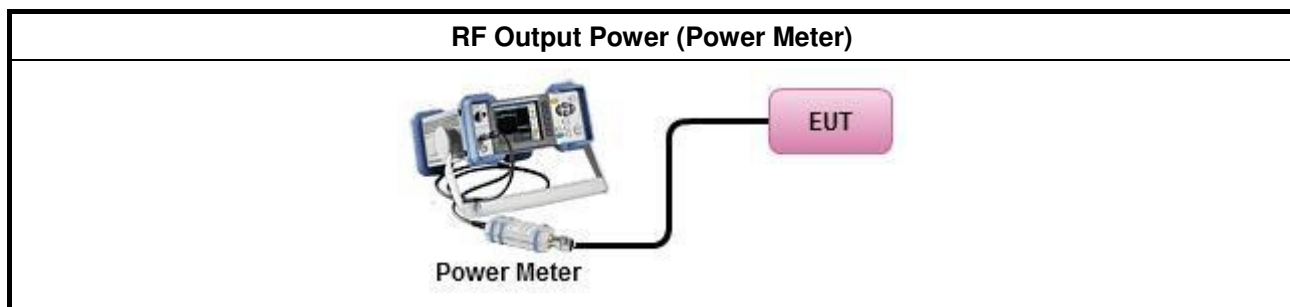
3.3.2 Measuring Instruments

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 he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.

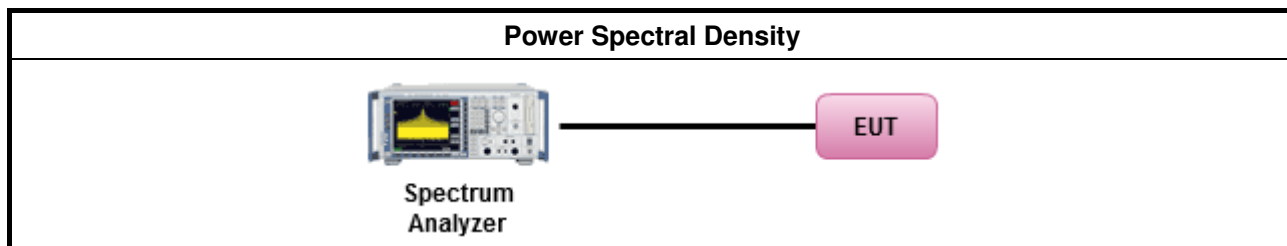
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (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).

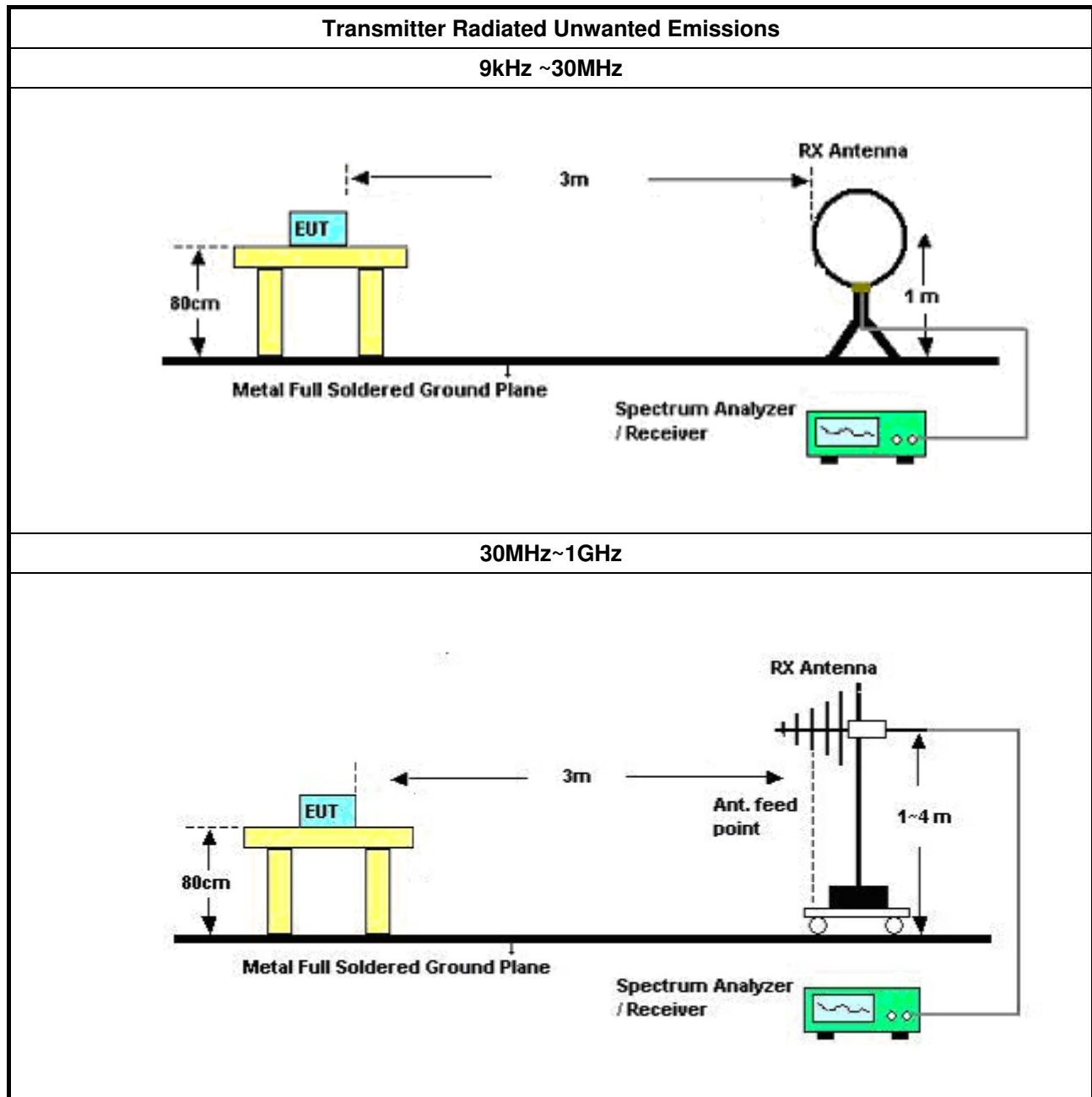
3.5.2 Measuring Instruments

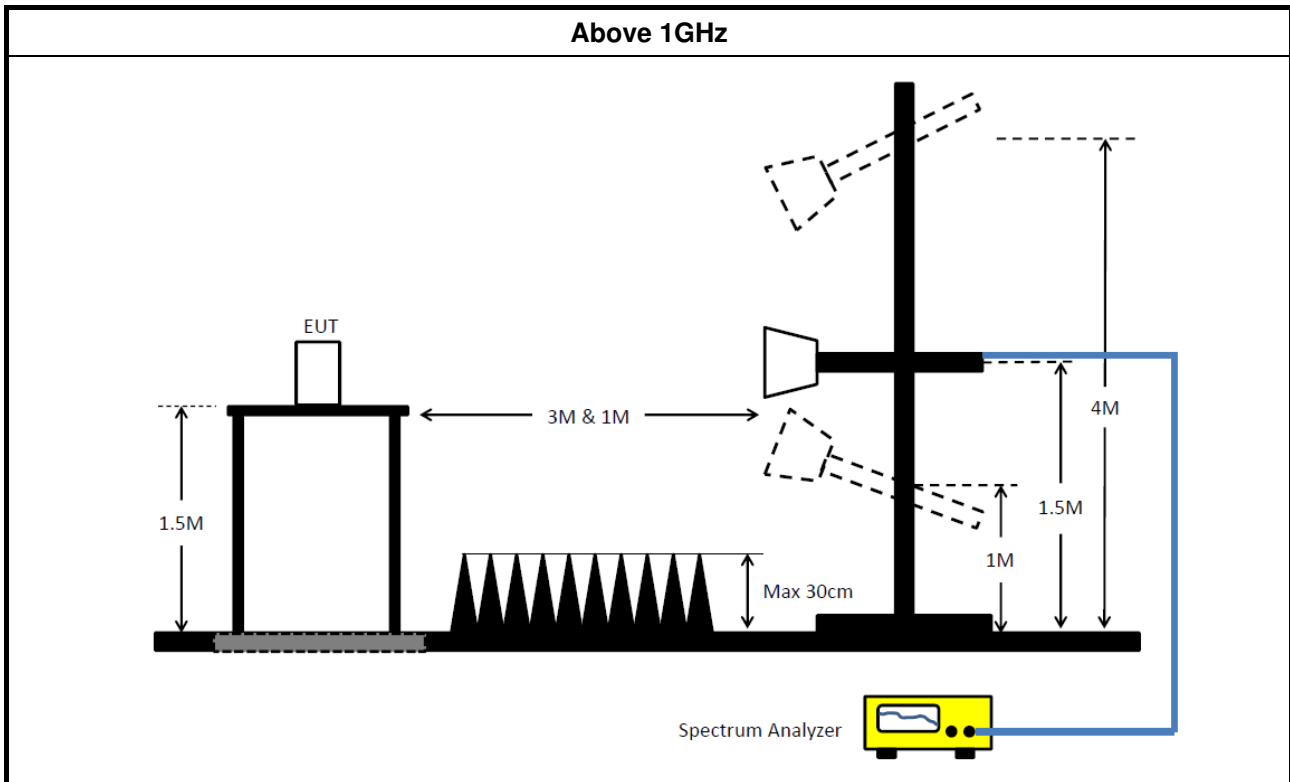
Refer a test equipment and calibration data table in this test report.

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

4 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	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

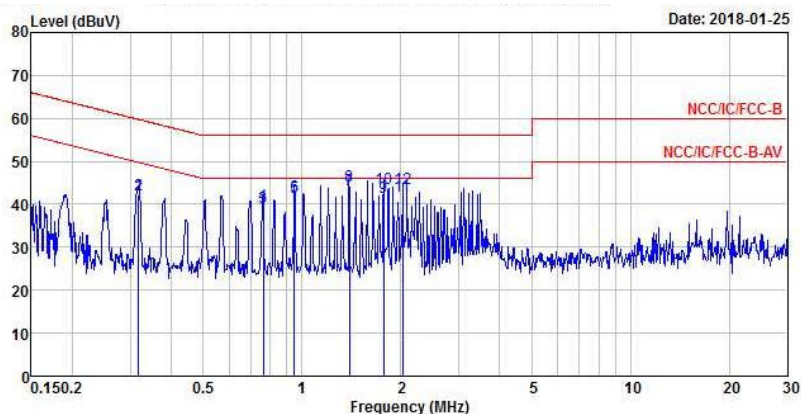
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	25/Apr/2017	24/Apr/2018
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2017	20/Jun/2018
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	25/Apr/2017	24/Apr/2018
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	25/Apr/2017	24/Apr/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	20/Jul/2017	19/Jul/2018
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	09/Sep/2017	08/Sep/2018
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	28/Apr/2017	27/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	02/Feb/2017	01/Feb/2018
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	02/Feb/2017	01/Feb/2018
Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101515	9kHz~40GHz	08/Dec/2017	07/Dec/2018
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY677/3	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY678/3	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode (5G TXBF)		

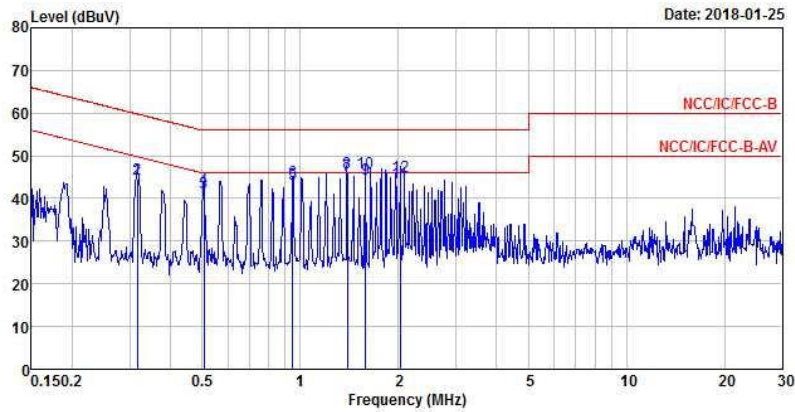


	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.3183	42.21	-7.54	49.75	32.53	9.61	0.07	Average
2	0.3183	42.34	-17.41	59.75	32.66	9.61	0.07	QP
3	0.7630	39.41	-6.59	46.00	29.76	9.62	0.03	Average
4	0.7630	39.71	-16.29	56.00	30.06	9.62	0.03	QP
5	0.9481	41.55	-4.45	46.00	31.92	9.62	0.01	Average
6	0.9481	41.95	-14.05	56.00	32.32	9.62	0.01	QP
7 MAX	1.3934	43.30	-2.70	46.00	33.68	9.62	0.00	Average
8	1.3934	44.18	-11.82	56.00	34.56	9.62	0.00	QP
9	1.7716	41.68	-4.32	46.00	32.05	9.63	0.00	Average
10	1.7716	43.77	-12.23	56.00	34.14	9.63	0.00	QP
11	2.0263	41.89	-4.11	46.00	32.26	9.63	0.00	Average
12	2.0263	43.60	-12.40	56.00	33.97	9.63	0.00	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE Mode (5G TXBF)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.3166	44.70	-5.10	49.80	35.02	9.61	0.07	Average
2	0.3166	44.54	-15.26	59.80	34.86	9.61	0.07	QP
3	0.5074	41.27	-4.73	46.00	31.59	9.61	0.07	Average
4	0.5074	42.27	-13.73	56.00	32.59	9.61	0.07	QP
5	0.9481	43.49	-2.51	46.00	33.87	9.61	0.01	Average
6	0.9481	44.13	-11.87	56.00	34.51	9.61	0.01	QP
7 MAX	1.3922	45.39	-0.61	46.00	35.78	9.61	0.00	Average
8	1.3922	46.04	-9.96	56.00	36.43	9.61	0.00	QP
9	1.5829	44.72	-1.28	46.00	35.10	9.62	0.00	Average
10	1.5829	46.06	-9.94	56.00	36.44	9.62	0.00	QP
11	2.0250	43.81	-2.19	46.00	34.19	9.62	0.00	Average
12	2.0250	45.14	-10.86	56.00	35.52	9.62	0.00	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



EBW Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix B.1

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21M	17.666M	17M7D1D	20.475M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	39.9M	36.132M	36M1D1D	38.6M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	83.2M	76.262M	76M3D1D	80.8M	75.662M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	151.5M	153.523M	154MD1D	80.85M	75.862M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.525M	17.641M	17M6D1D	16.825M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	34.9M	36.082M	36M1D1D	31.35M	35.832M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.5M	75.862M	75M9D1D	69.3M	75.562M

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;



EBW Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix B.1

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)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	Inf	20.925M	17.616M	21M	17.616M	20.475M	17.641M	20.475M	17.616M
5540MHz_TnomVnom	Pass	Inf	20.85M	17.641M	20.6M	17.616M	20.65M	17.666M	20.475M	17.591M
5580MHz_TnomVnom	Pass	Inf	20.525M	17.616M	20.775M	17.616M	20.9M	17.641M	20.725M	17.641M
5640MHz_TnomVnom	Pass	Inf	20.925M	17.641M	20.7M	17.591M	20.725M	17.641M	20.675M	17.641M
5745MHz_TnomVnom	Pass	500k	17.275M	17.616M	17.4M	17.591M	17.5M	17.616M	17.25M	17.591M
5785MHz_TnomVnom	Pass	500k	17.25M	17.641M	17.525M	17.641M	17.375M	17.616M	17.525M	17.616M
5825MHz_TnomVnom	Pass	500k	16.85M	17.641M	17.275M	17.591M	17.325M	17.641M	16.825M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	Inf	39.7M	36.032M	39.05M	35.982M	39.15M	36.132M	38.6M	36.132M
5550MHz_TnomVnom	Pass	Inf	39M	36.032M	39.9M	36.032M	38.95M	36.082M	39.55M	35.932M
5630MHz_TnomVnom	Pass	Inf	39.55M	35.982M	38.7M	35.982M	39.7M	35.982M	39.45M	36.032M
5755MHz_TnomVnom	Pass	500k	32.55M	35.932M	31.35M	36.082M	32.6M	35.982M	34.9M	35.832M
5795MHz_TnomVnom	Pass	500k	33.8M	35.982M	33.85M	35.982M	31.35M	35.882M	33.8M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	Inf	81.1M	75.662M	81.2M	75.762M	83.2M	76.262M	81.6M	76.062M
5610MHz_TnomVnom	Pass	Inf	80.8M	75.762M	82.5M	75.762M	82.8M	75.762M	82.5M	75.762M
5775MHz_TnomVnom	Pass	500k	69.3M	75.662M	75.1M	75.562M	75.1M	75.862M	75.5M	75.762M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	Inf	80.85M	75.862M	82.05M	75.862M	144.45M	153.523M	151.5M	140.93M

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

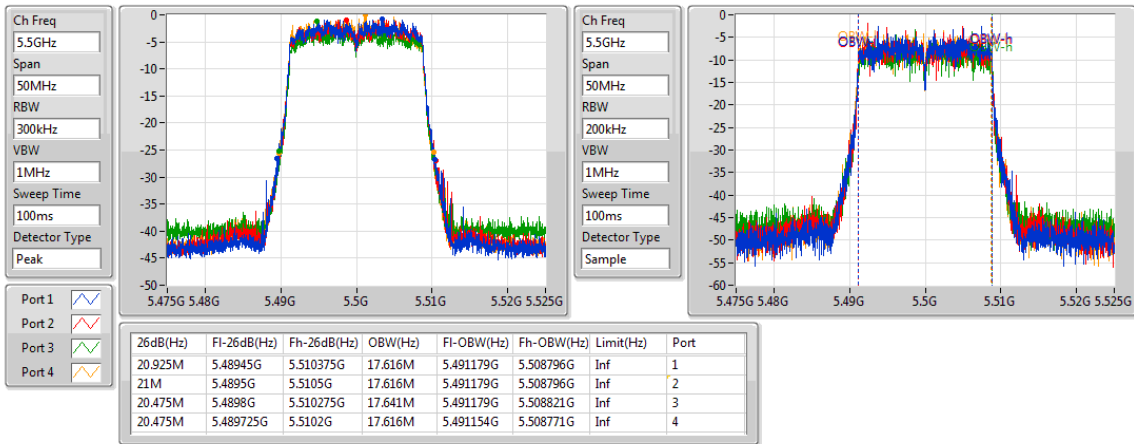
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

11/01/2018

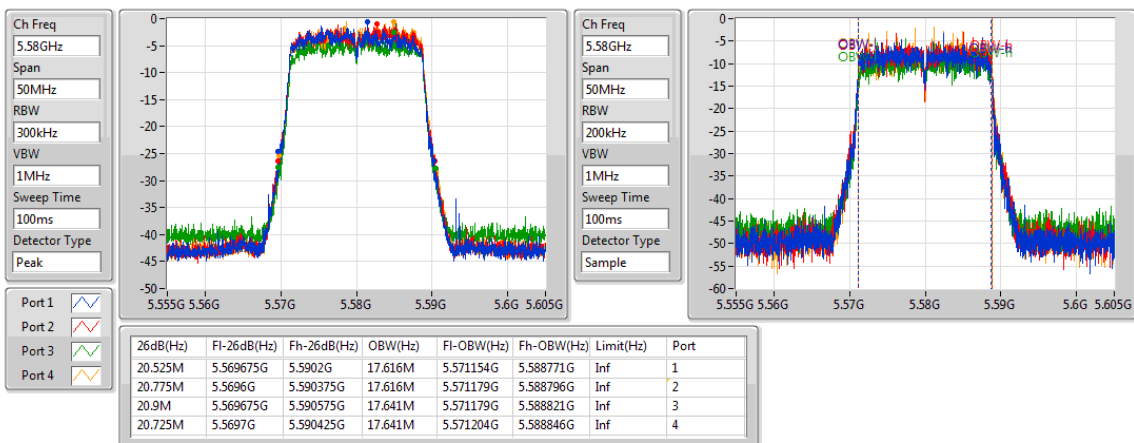


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

11/01/2018

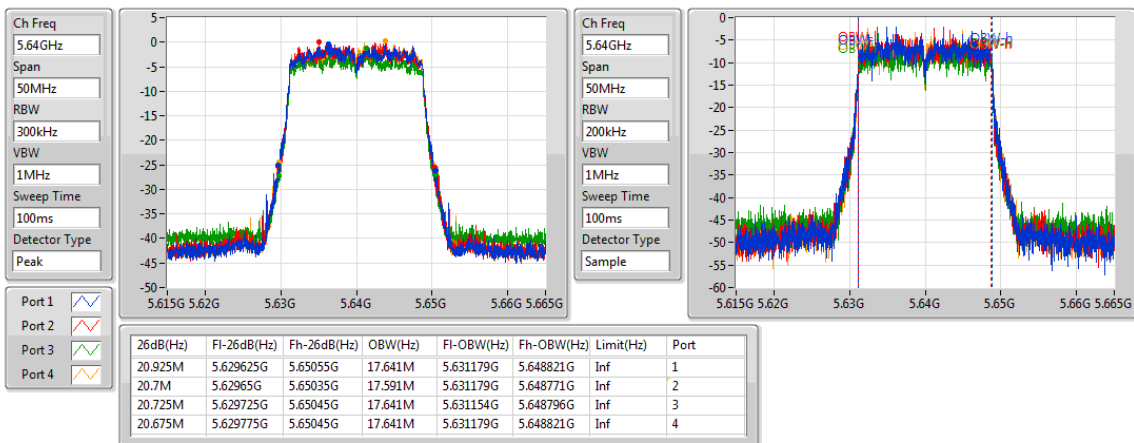


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5640MHz

11/01/2018

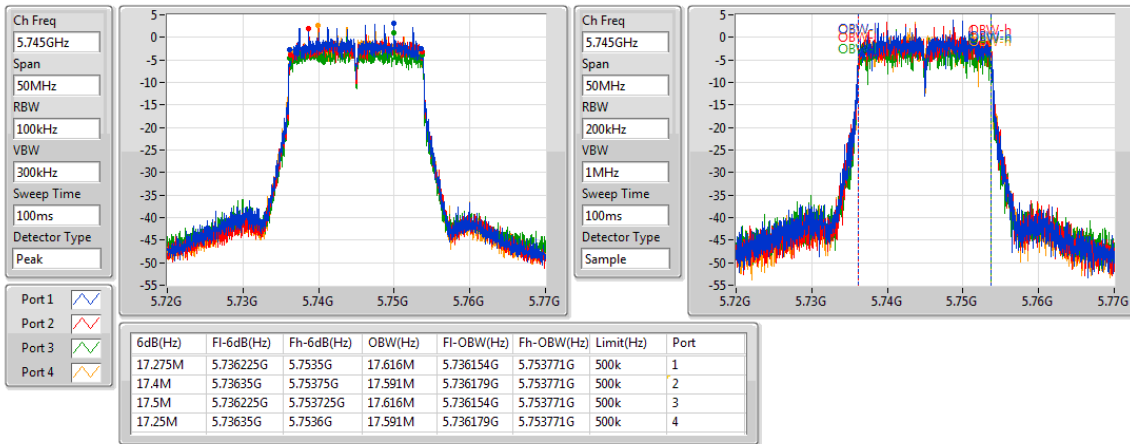


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

11/01/2018

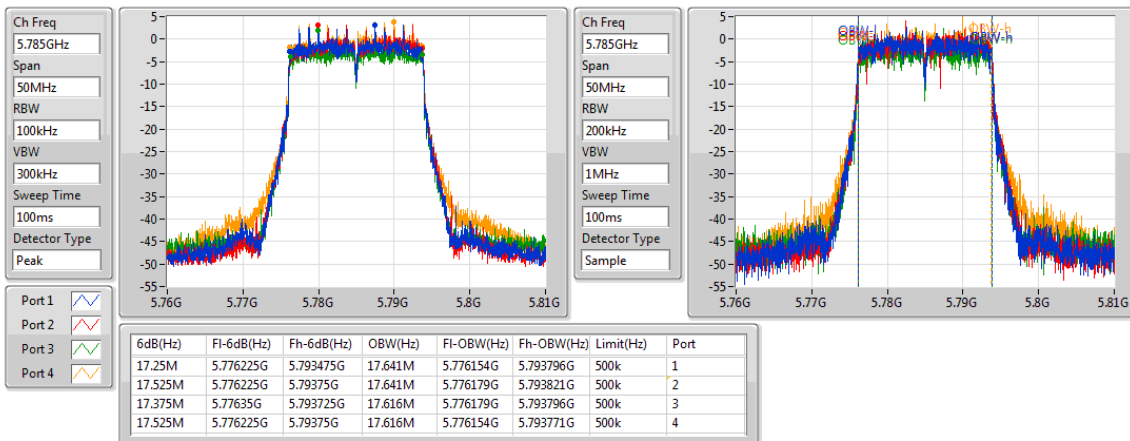


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

11/01/2018

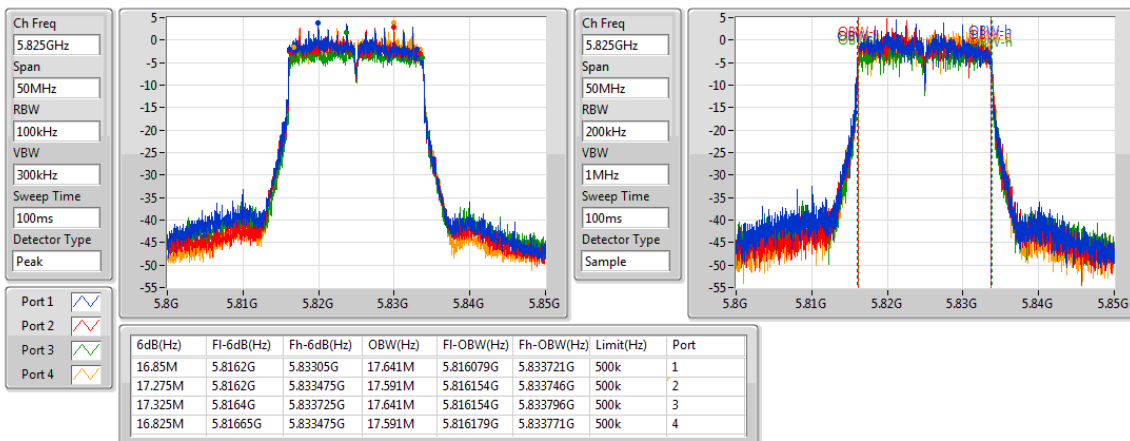


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

11/01/2018

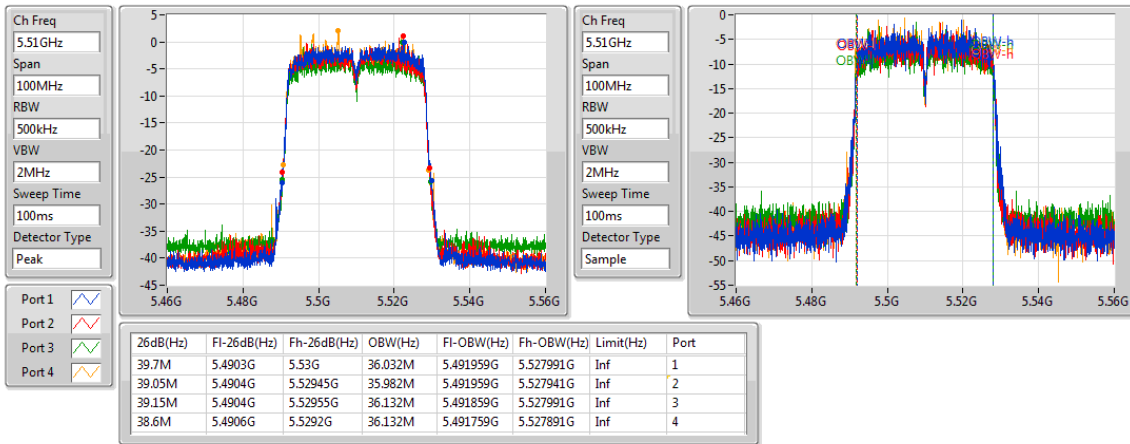


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

11/01/2018

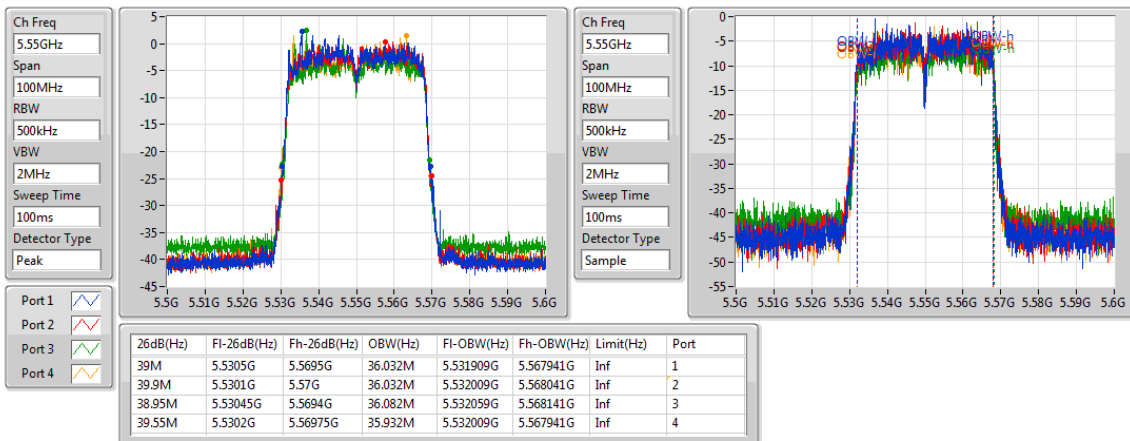


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

11/01/2018

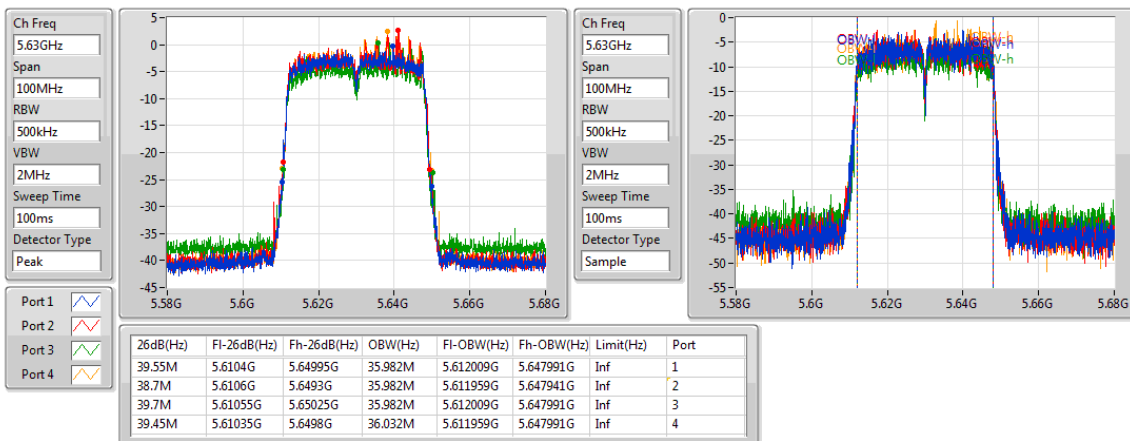


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5630MHz

11/01/2018

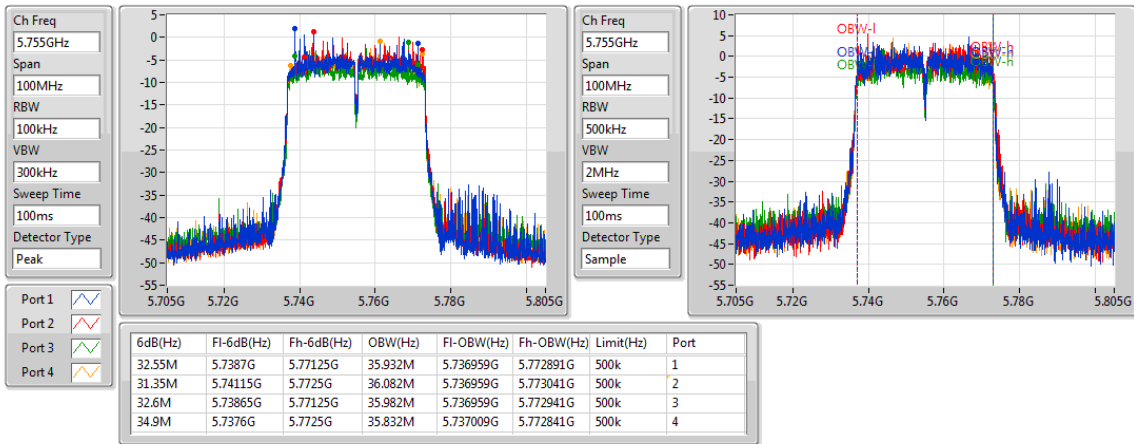


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

11/01/2018

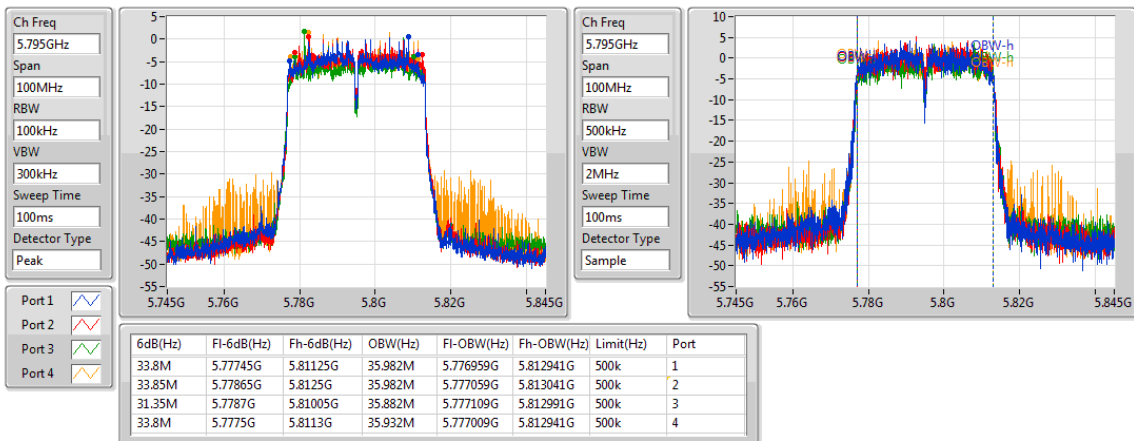


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

11/01/2018

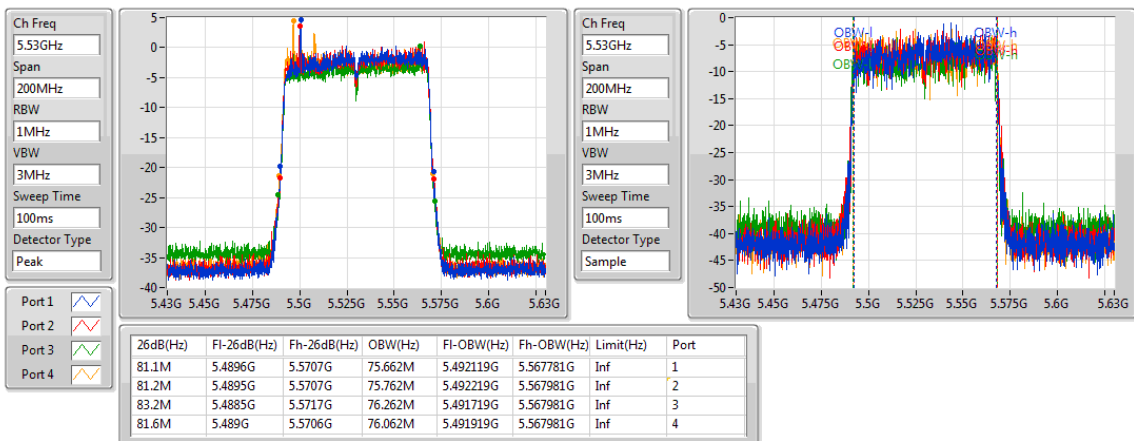


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

11/01/2018





**EBW Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave**

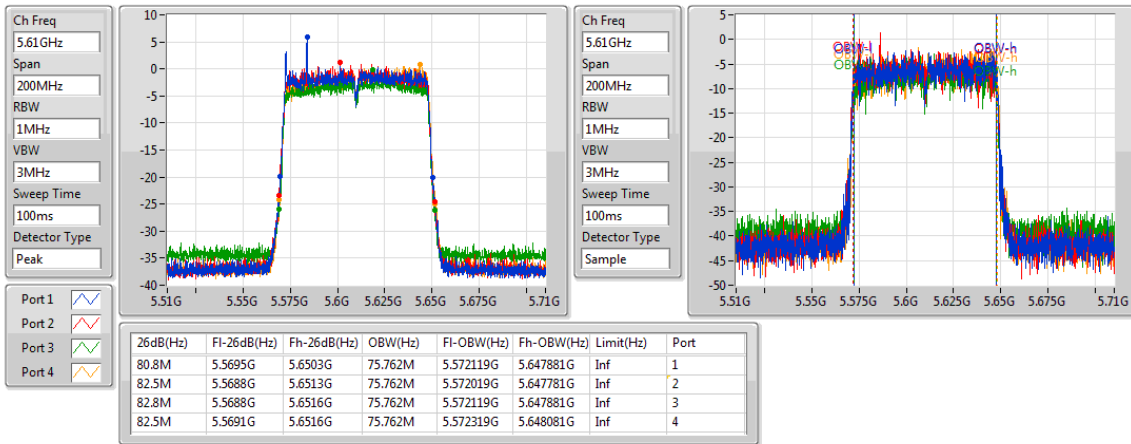
Appendix B.1

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

11/01/2018

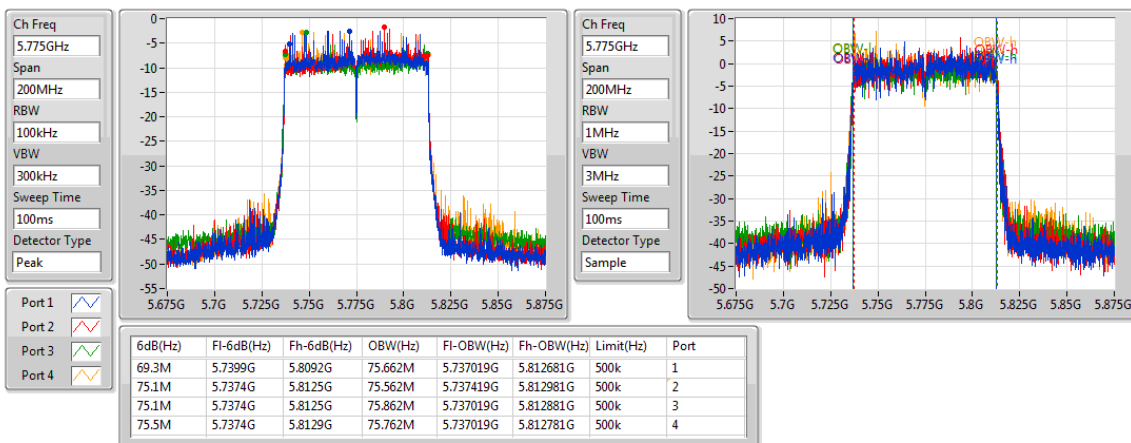


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

11/01/2018

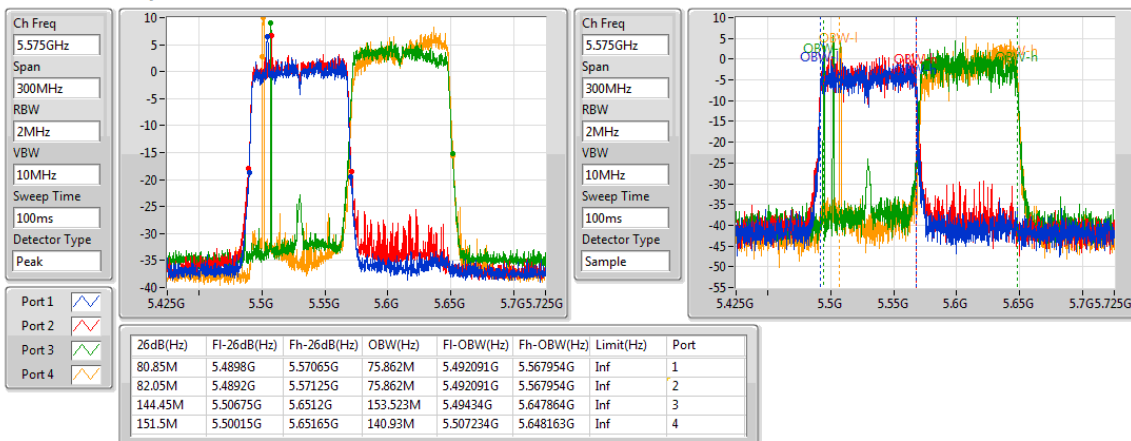


802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX

EBW

#5530MHz,#5610MHz

11/01/2018





EBW Result(Antenna Gain 15 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix B.2

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.025M	17.641M	17M6D1D	20.525M	17.566M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.15M	36.182M	36M2D1D	38.6M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	83.3M	76.062M	76M1D1D	80.6M	75.762M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	153.3M	146.177M	146MD1D	81M	76.012M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.5M	17.666M	17M7D1D	16.55M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	35.15M	36.132M	36M1D1D	31.35M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	74.2M	76.362M	76M4D1D	73.8M	75.662M

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)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	Inf	20.525M	17.641M	20.8M	17.616M	20.825M	17.616M	21M	17.566M
5540MHz_TnomVnom	Pass	Inf	20.575M	17.641M	20.7M	17.641M	21.025M	17.616M	20.9M	17.591M
5580MHz_TnomVnom	Pass	Inf	20.975M	17.641M	20.825M	17.616M	20.875M	17.641M	20.6M	17.616M
5640MHz_TnomVnom	Pass	Inf	21M	17.616M	20.85M	17.616M	20.875M	17.641M	20.825M	17.641M
5745MHz_TnomVnom	Pass	500k	17.15M	17.666M	17.4M	17.641M	17.25M	17.641M	16.7M	17.591M
5785MHz_TnomVnom	Pass	500k	16.625M	17.616M	17.375M	17.641M	17.075M	17.616M	16.55M	17.616M
5825MHz_TnomVnom	Pass	500k	17.275M	17.641M	17.05M	17.591M	17.5M	17.641M	16.975M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	Inf	39.25M	36.132M	39.85M	36.082M	39.65M	35.932M	39.6M	35.982M
5550MHz_TnomVnom	Pass	Inf	39.25M	36.082M	39.25M	36.032M	39.2M	36.182M	40.15M	36.082M
5630MHz_TnomVnom	Pass	Inf	39.5M	36.032M	39.6M	36.082M	39.45M	36.032M	38.6M	36.032M
5755MHz_TnomVnom	Pass	500k	33.8M	36.132M	32.75M	36.082M	35.15M	36.032M	32.55M	35.982M
5795MHz_TnomVnom	Pass	500k	33.4M	35.982M	33.85M	36.082M	31.35M	35.982M	32.55M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	Inf	80.7M	75.962M	81.1M	76.062M	83.3M	76.062M	80.9M	75.862M
5610MHz_TnomVnom	Pass	Inf	83.2M	75.862M	80.6M	75.762M	80.8M	75.862M	81M	75.962M
5775MHz_TnomVnom	Pass	500k	73.8M	75.662M	74.1M	76.362M	74.2M	75.662M	74.1M	75.962M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	Inf	81M	76.012M	81.45M	76.012M	153.3M	146.177M	147.15M	81.259M

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

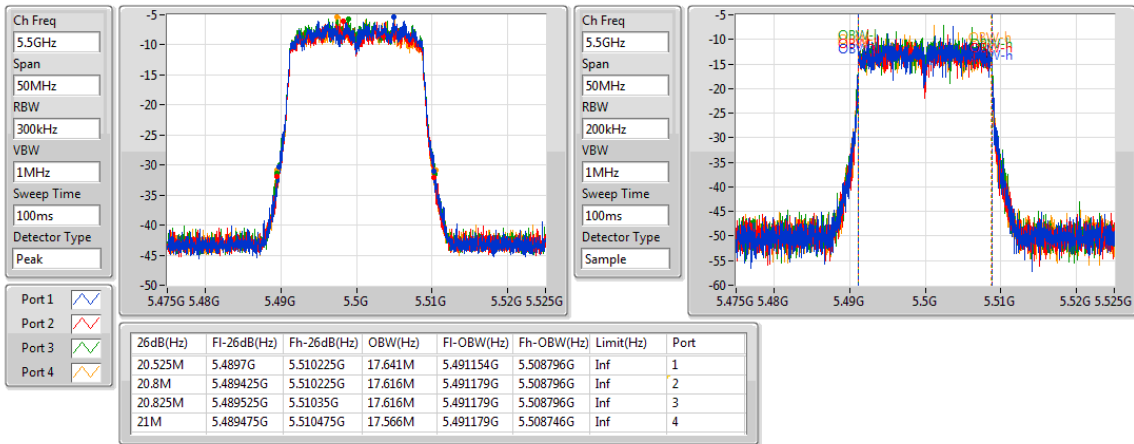
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

12/01/2018

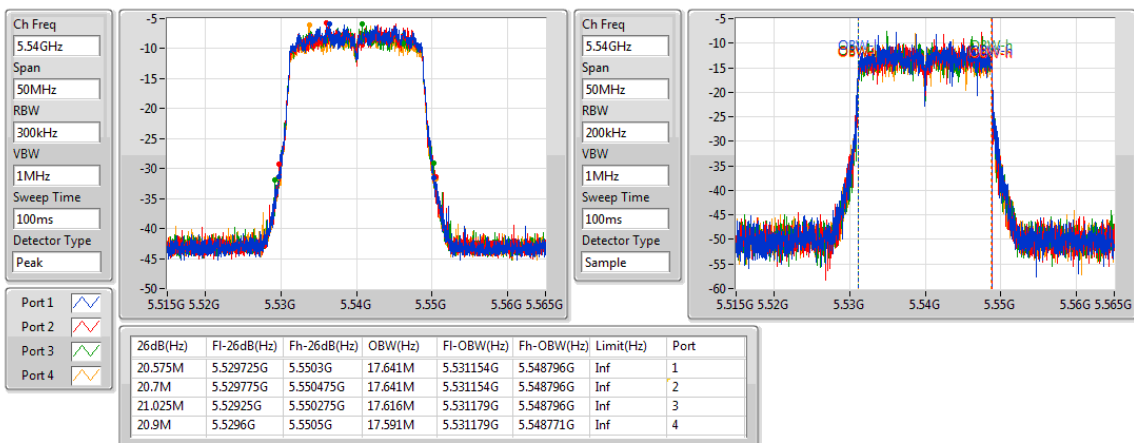


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5540MHz

12/01/2018

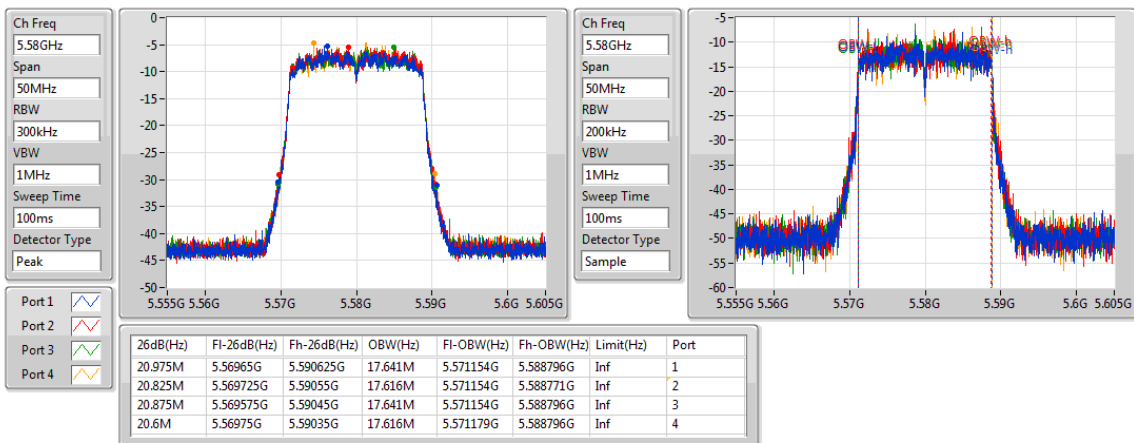


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

12/01/2018

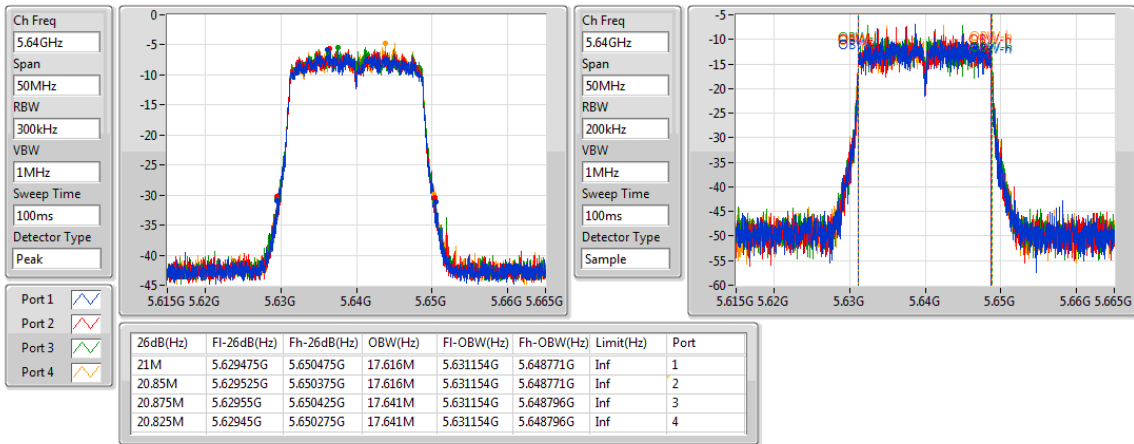


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5640MHz

12/01/2018

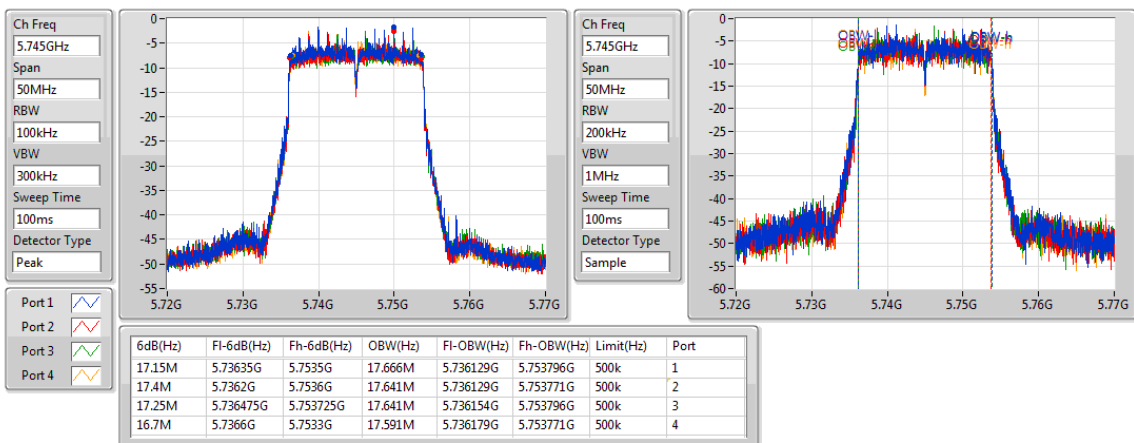


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

12/01/2018

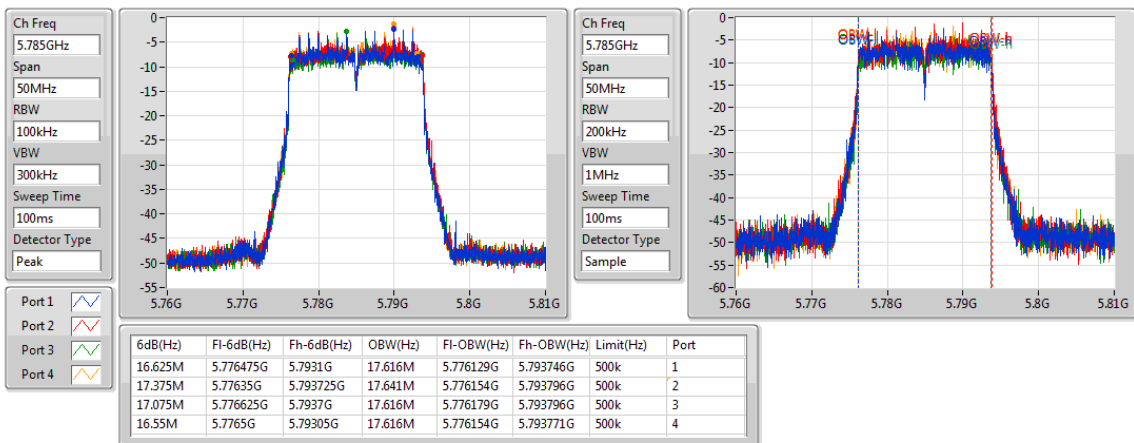


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

12/01/2018

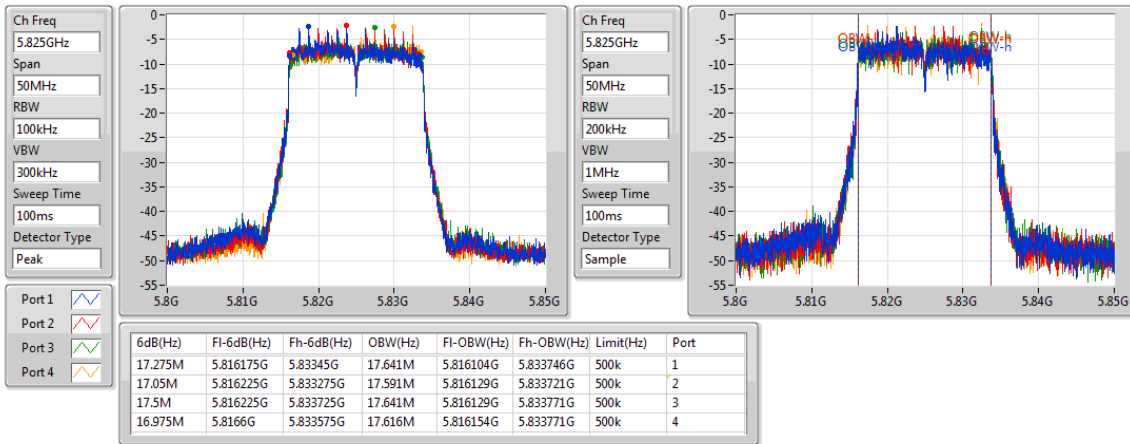


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

12/01/2018

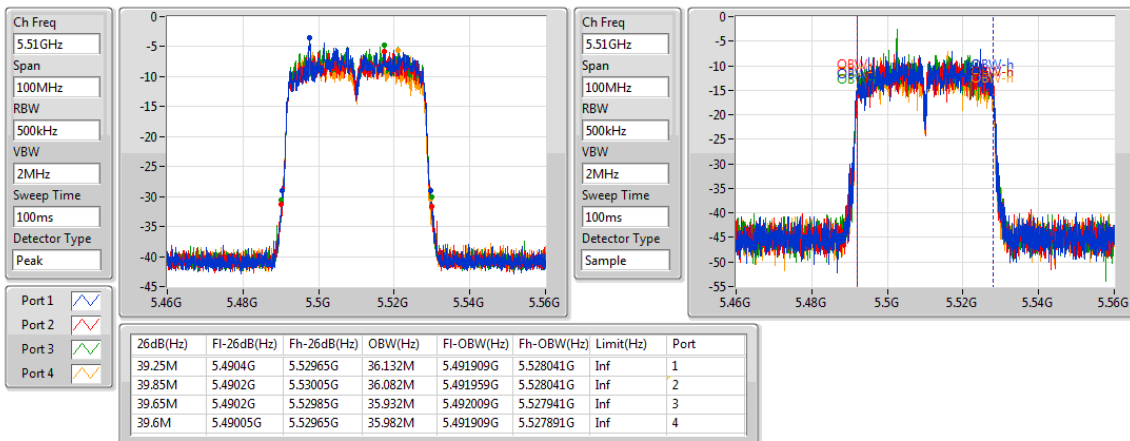


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

12/01/2018

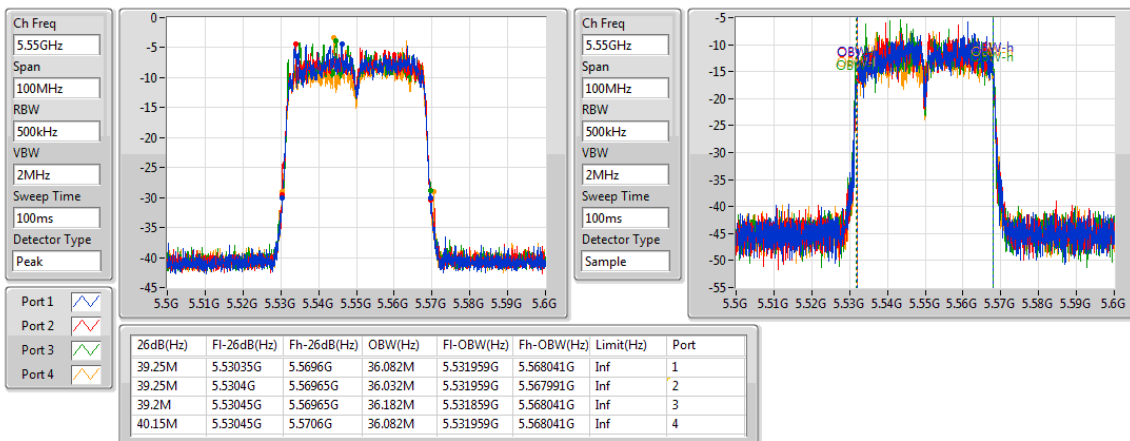


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

12/01/2018

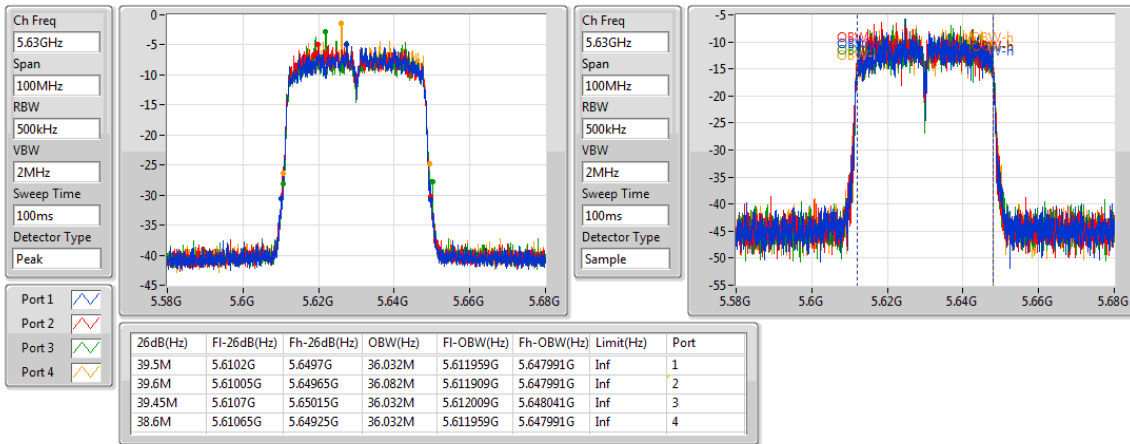


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5630MHz

12/01/2018

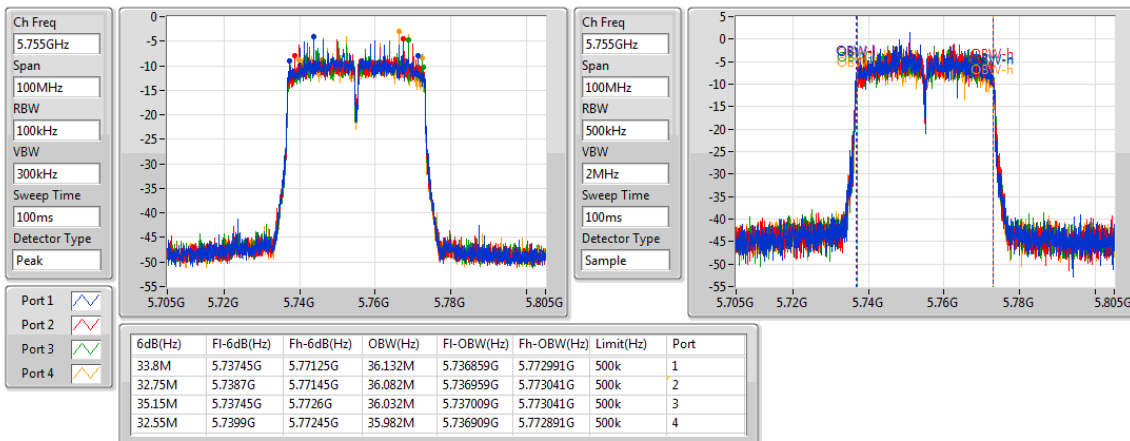


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

12/01/2018

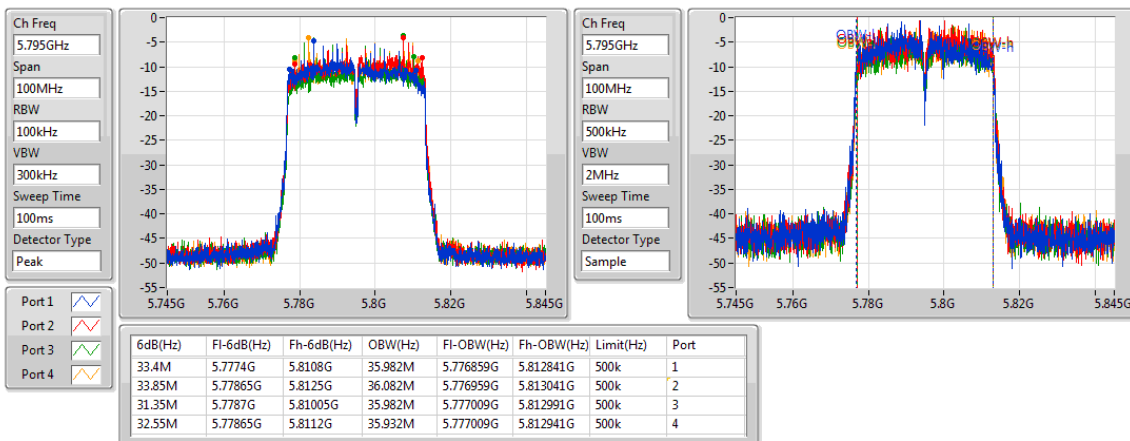


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

12/01/2018

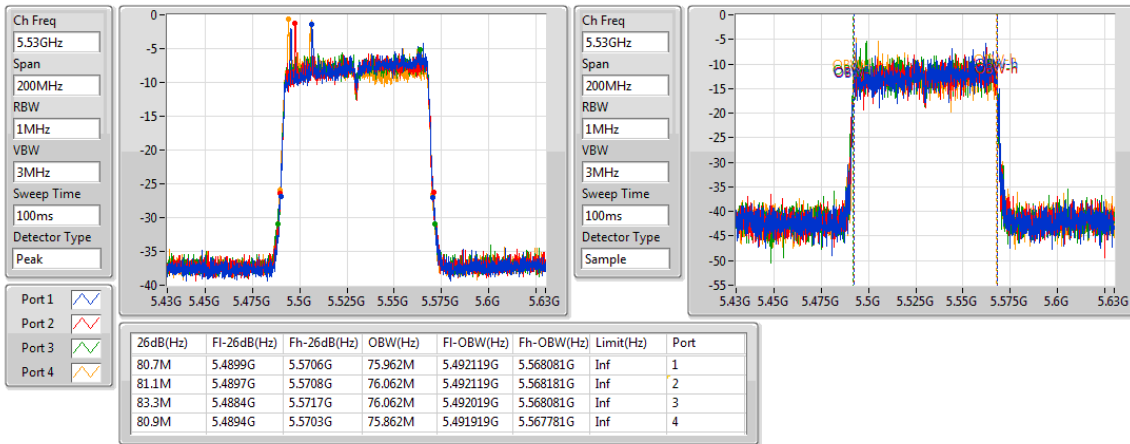


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

12/01/2018

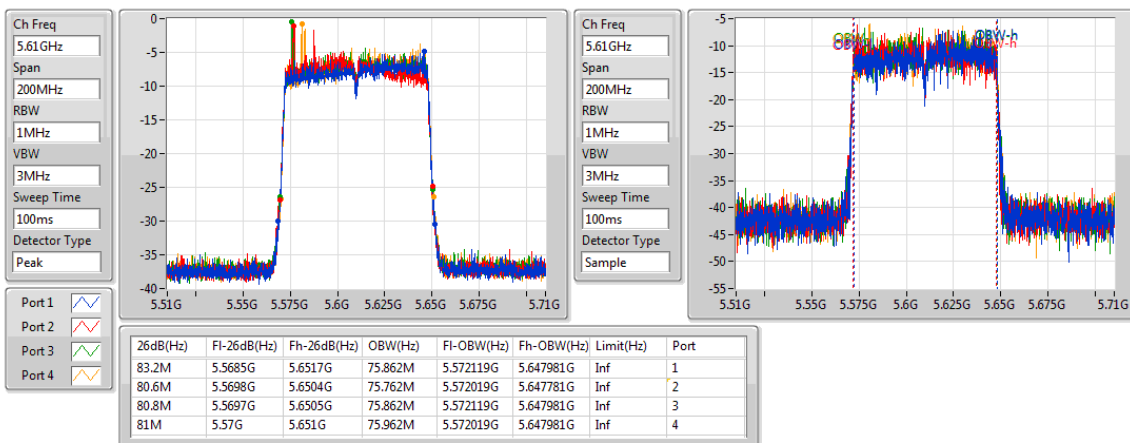


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

12/01/2018

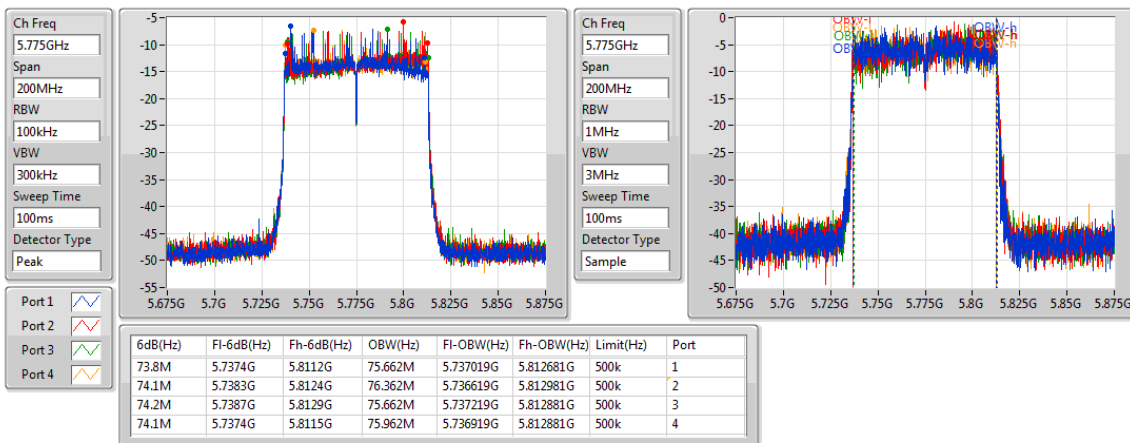


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

12/01/2018

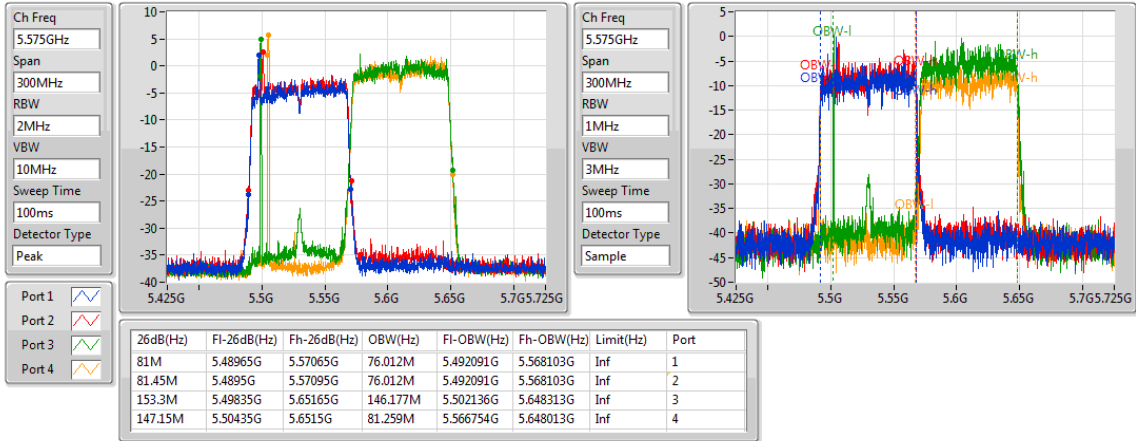


802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX

EBW

#5530MHz,#5610MHz

12/01/2018





Power Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	13.89	0.02449	29.91	0.97949
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	13.90	0.02455	29.92	0.98175
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	13.94	0.02477	29.96	0.99083
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	16.67	0.04645	29.68	0.92897
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.97	0.09931	35.99	3.97192
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	19.91	0.09795	35.93	3.91742
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	19.76	0.09462	35.78	3.78443



**Power Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave**

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	16.02	8.28	8.09	6.68	8.22	13.89	13.98	29.91	30.00
5580MHz_TnomVnom	Pass	16.02	7.36	7.83	5.96	7.72	13.30	13.98	29.32	30.00
5640MHz_TnomVnom	Pass	16.02	8.26	8.25	6.74	7.79	13.82	13.98	29.84	30.00
5745MHz_TnomVnom	Pass	16.02	13.88	13.70	12.24	13.81	19.48	19.98	35.50	36.00
5785MHz_TnomVnom	Pass	16.02	14.15	14.10	11.24	14.69	19.75	19.98	35.77	36.00
5825MHz_TnomVnom	Pass	16.02	14.51	14.11	12.68	14.27	19.97	19.98	35.99	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	16.02	8.31	7.44	6.48	7.78	13.57	13.98	29.59	30.00
5550MHz_TnomVnom	Pass	16.02	8.26	8.60	6.94	7.54	13.90	13.98	29.92	30.00
5630MHz_TnomVnom	Pass	16.02	7.15	7.50	6.18	7.71	13.19	13.98	29.21	30.00
5755MHz_TnomVnom	Pass	16.02	12.93	13.90	11.75	13.21	19.04	19.98	35.06	36.00
5795MHz_TnomVnom	Pass	16.02	13.98	14.33	12.89	14.20	19.91	19.98	35.93	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	16.02	7.77	7.83	6.72	7.81	13.58	13.98	29.60	30.00
5610MHz_TnomVnom	Pass	16.02	8.33	8.43	6.77	7.96	13.94	13.98	29.96	30.00
5775MHz_TnomVnom	Pass	16.02	13.96	13.98	12.97	13.98	19.76	19.98	35.78	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	13.01	10.49	11.30	9.39	11.17	16.67	16.99	29.68	30.00

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



Power Result(Antenna Gain 15 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.41	0.00693	29.43	0.87700
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	8.86	0.00769	29.88	0.97275
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	8.56	0.00718	29.58	0.90782
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	11.59	0.01442	29.60	0.91201
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	14.67	0.02931	35.69	3.70681
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	14.59	0.02877	35.61	3.63915
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	14.91	0.03097	35.93	3.91742



**Power Result(Antenna Gain 15 dBi)
Beamforming Indoor/Outdoor/Slave**

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	21.02	2.56	2.35	2.03	2.61	8.41	8.98	29.43	30.00
5580MHz_TnomVnom	Pass	21.02	1.52	2.44	3.11	2.31	8.40	8.98	29.42	30.00
5640MHz_TnomVnom	Pass	21.02	2.17	2.90	2.14	2.07	8.35	8.98	29.37	30.00
5745MHz_TnomVnom	Pass	21.02	8.62	8.70	8.48	8.80	14.67	14.98	35.69	36.00
5785MHz_TnomVnom	Pass	21.02	8.01	8.72	7.74	8.65	14.32	14.98	35.34	36.00
5825MHz_TnomVnom	Pass	21.02	8.34	8.66	8.29	8.32	14.43	14.98	35.45	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	21.02	2.44	2.28	2.48	1.95	8.31	8.98	29.33	30.00
5550MHz_TnomVnom	Pass	21.02	2.31	2.74	2.55	1.56	8.33	8.98	29.35	30.00
5630MHz_TnomVnom	Pass	21.02	2.51	3.02	2.43	3.33	8.86	8.98	29.88	30.00
5755MHz_TnomVnom	Pass	21.02	8.53	8.79	8.73	8.21	14.59	14.98	35.61	36.00
5795MHz_TnomVnom	Pass	21.02	8.23	8.93	7.26	8.20	14.22	14.98	35.24	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	21.02	2.33	2.09	2.36	1.86	8.19	8.98	29.21	30.00
5610MHz_TnomVnom	Pass	21.02	2.31	2.67	2.31	2.84	8.56	8.98	29.58	30.00
5775MHz_TnomVnom	Pass	21.02	8.69	9.03	8.87	8.96	14.91	14.98	35.93	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	18.01	4.28	6.33	5.90	5.49	11.59	11.99	29.60	30.00

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



PSD Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix D.1

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	0.73	16.75
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-2.22	13.80
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-5.32	10.70
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-5.86	7.15
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	5.11	21.13
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	2.27	18.29
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-1.39	14.63

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



PSD Result(Antenna Gain 10 dBi)
Beamforming Indoor/Outdoor/Slave

Appendix D.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	16.02	-5.15	-4.85	-6.04	-4.76	0.28	0.98	16.30	17.00
5540MHz_TnomVnom	Pass	16.02	-5.29	-4.67	-6.67	-4.98	0.14	0.98	16.16	17.00
5580MHz_TnomVnom	Pass	16.02	-5.46	-5.48	-7.14	-4.93	-0.26	0.98	15.76	17.00
5640MHz_TnomVnom	Pass	16.02	-4.06	-4.39	-6.32	-4.54	0.73	0.98	16.75	36.00
5745MHz_TnomVnom	Pass	16.02	-0.54	-1.07	-2.38	-0.43	4.23	19.98	20.25	36.00
5785MHz_TnomVnom	Pass	16.02	-0.68	0.12	-1.71	0.56	5.11	19.98	21.13	36.00
5825MHz_TnomVnom	Pass	16.02	0.18	-0.05	-1.87	0.29	5.04	19.98	21.06	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	16.02	-7.68	-8.37	-9.68	-8.12	-2.63	0.98	13.39	17.00
5550MHz_TnomVnom	Pass	16.02	-7.10	-6.75	-8.17	-7.42	-2.22	0.98	13.80	17.00
5630MHz_TnomVnom	Pass	16.02	-8.24	-8.15	-9.91	-7.91	-2.79	0.98	13.23	17.00
5755MHz_TnomVnom	Pass	16.02	-4.07	-3.50	-5.58	-3.28	1.17	19.98	17.19	36.00
5795MHz_TnomVnom	Pass	16.02	-2.82	-2.27	-3.84	-2.45	2.27	19.98	18.29	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	16.02	-11.28	-11.44	-12.84	-11.22	-6.11	0.98	9.91	17.00
5610MHz_TnomVnom	Pass	16.02	-10.72	-9.97	-12.48	-10.65	-5.32	0.98	10.70	17.00
5775MHz_TnomVnom	Pass	16.02	-6.95	-6.38	-7.86	-6.68	-1.39	19.98	14.63	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	13.01	-9.01	-8.17	-9.36	-7.33	-5.86	3.99	7.15	17.00

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

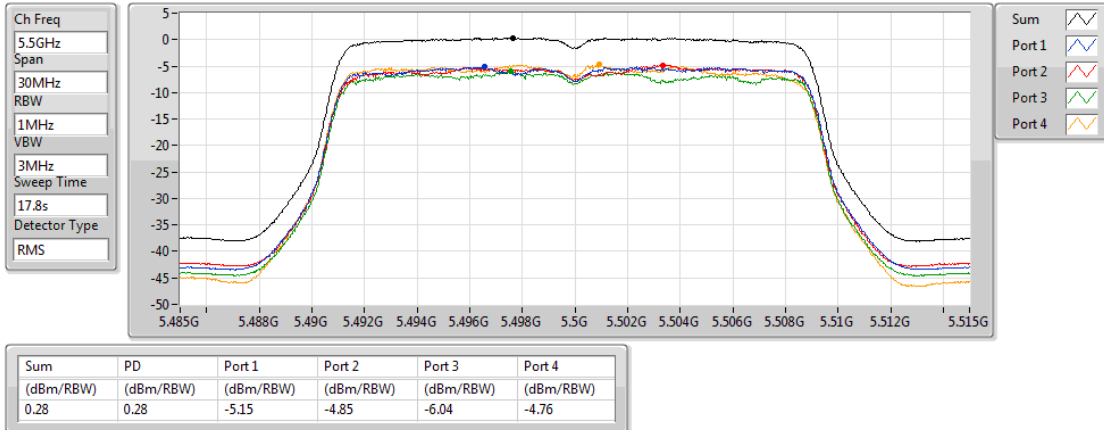
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

11/01/2018

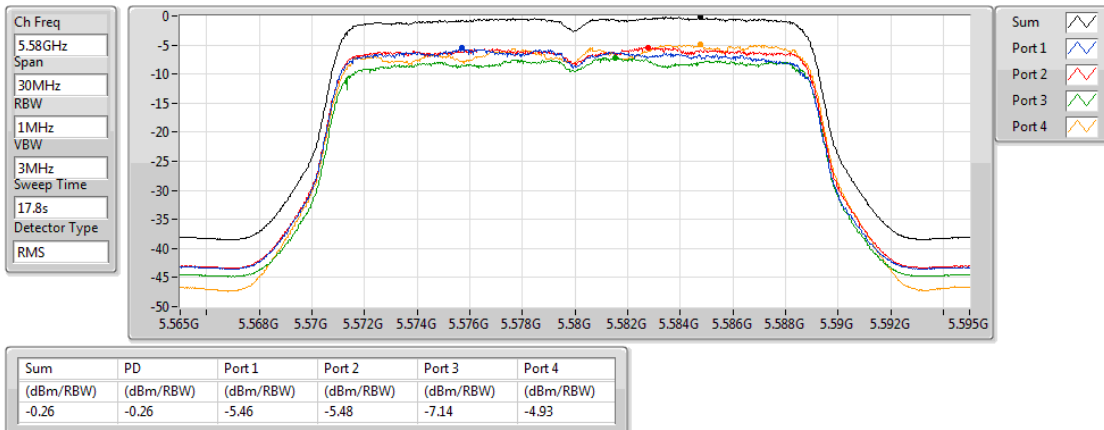


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

11/01/2018

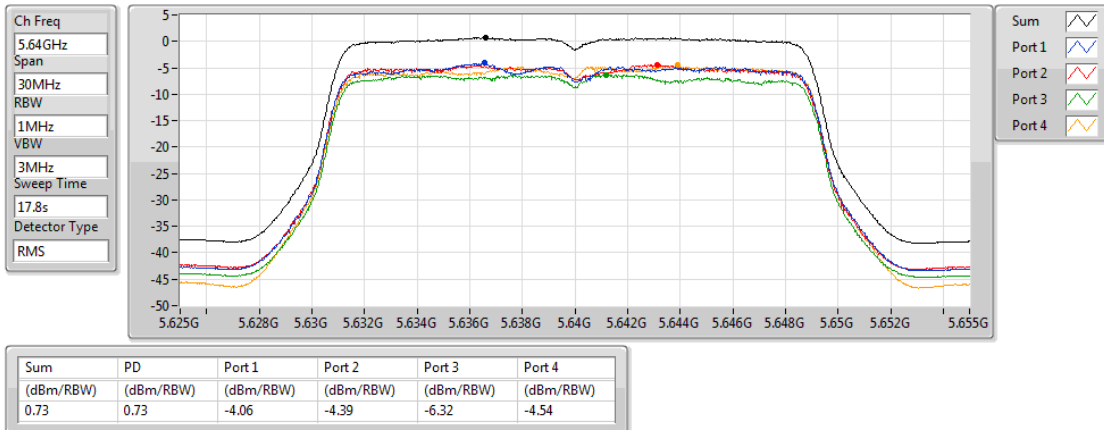


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5640MHz

11/01/2018

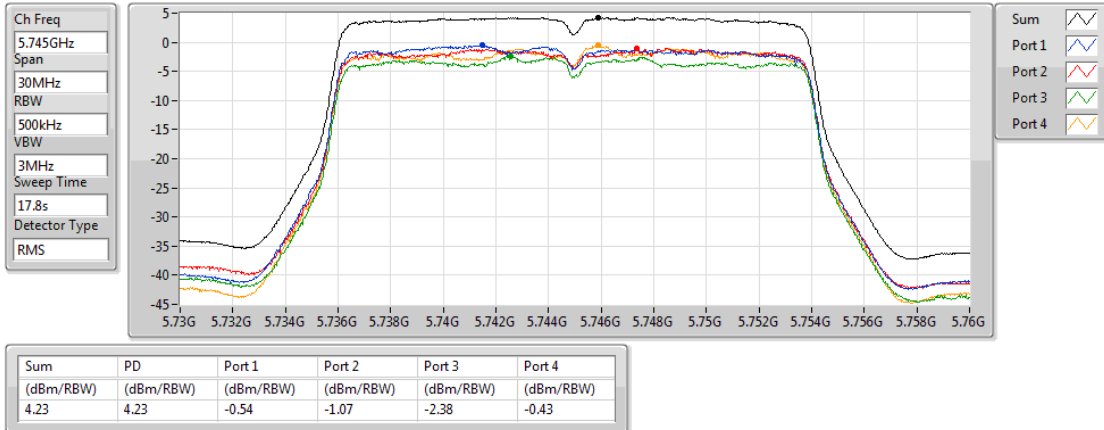


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5745MHz

11/01/2018

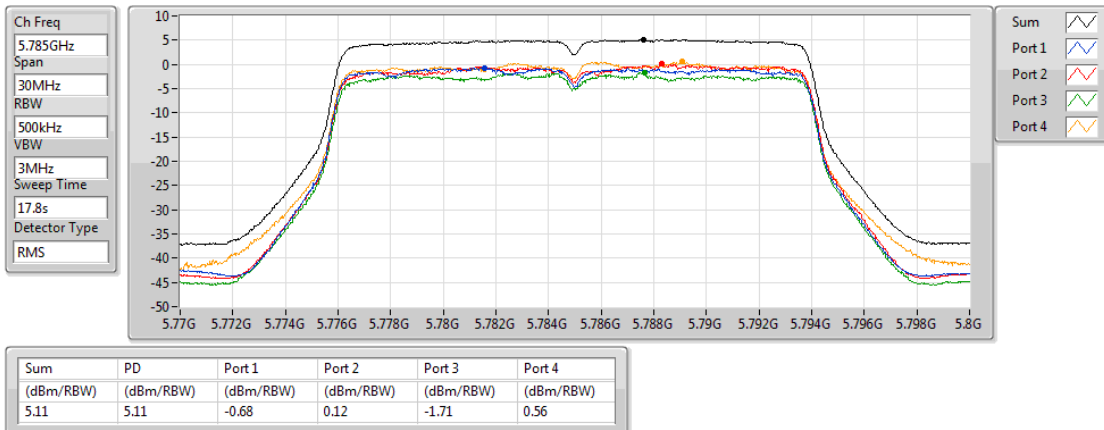


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

11/01/2018

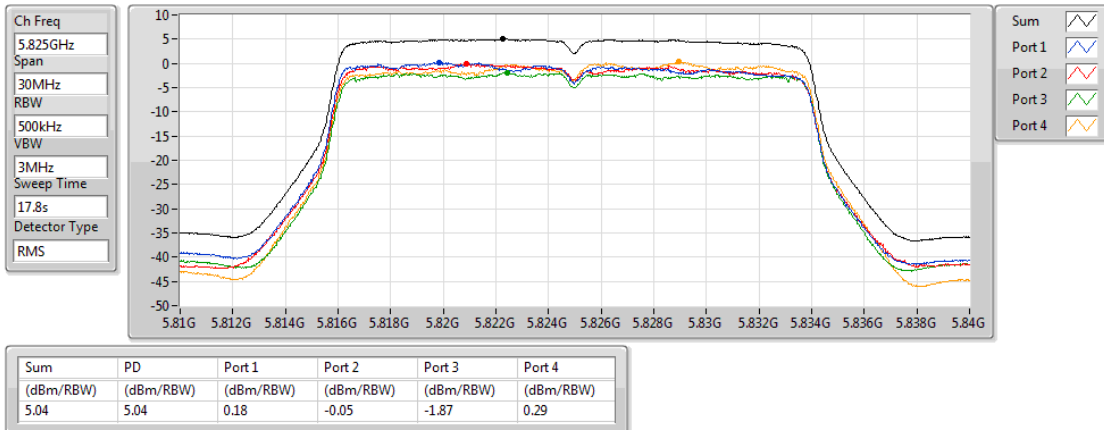


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

11/01/2018

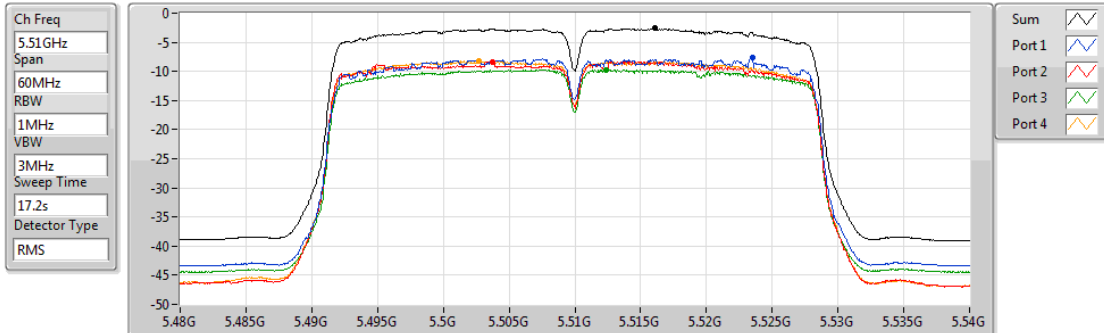


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

11/01/2018



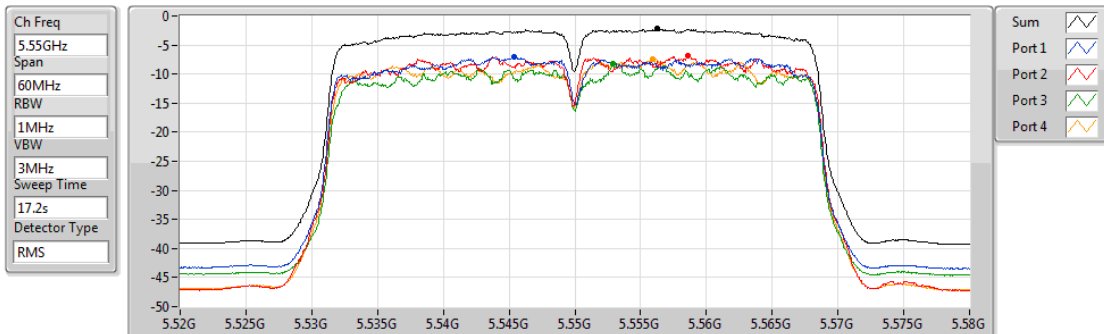
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-2.63	-2.63	-7.68	-8.37	-9.68	-8.12

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

11/01/2018



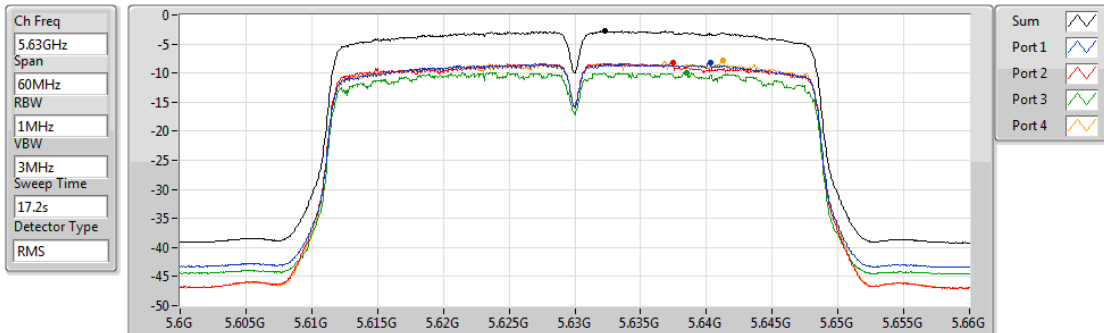
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-2.22	-2.22	-7.10	-6.75	-8.17	-7.42

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5630MHz

11/01/2018



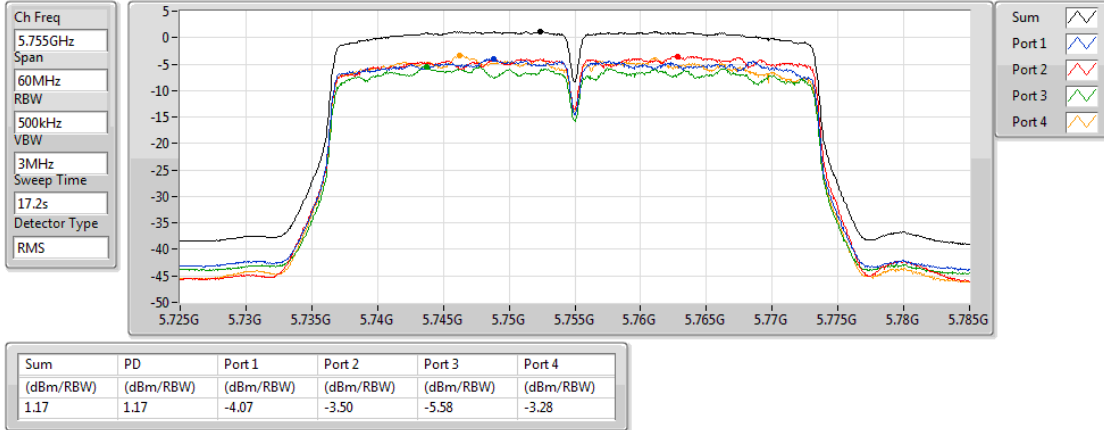
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-2.79	-2.79	-8.24	-8.15	-9.91	-7.91

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5755MHz

11/01/2018

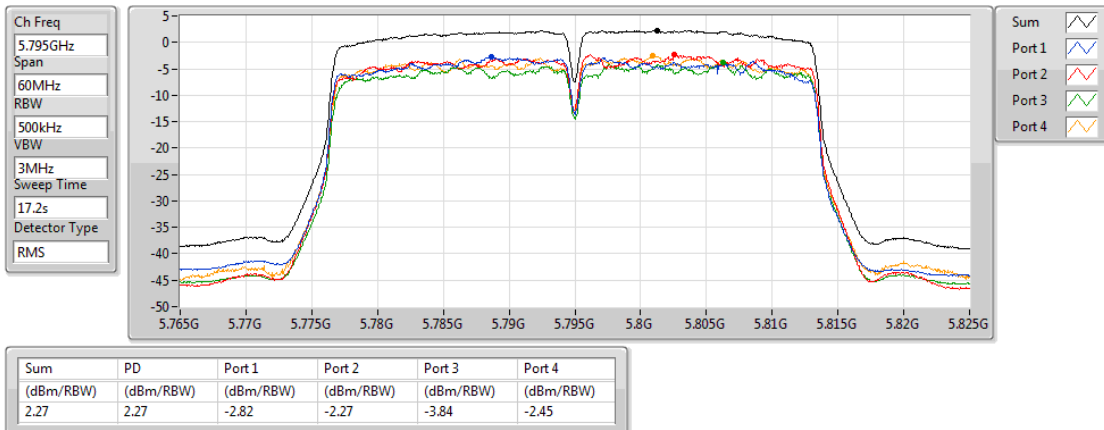


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

11/01/2018

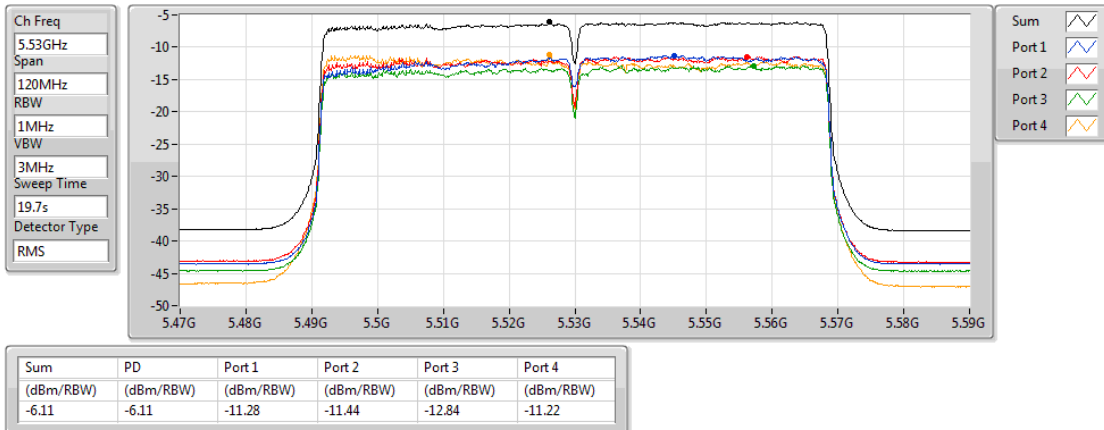


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

11/01/2018

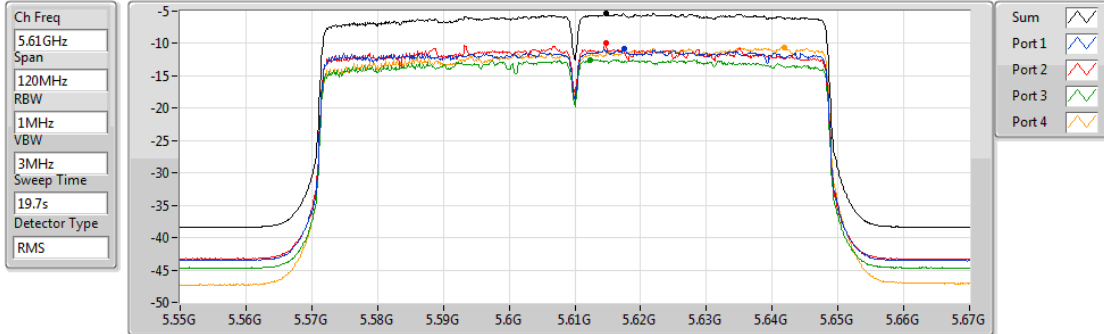


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

11/01/2018



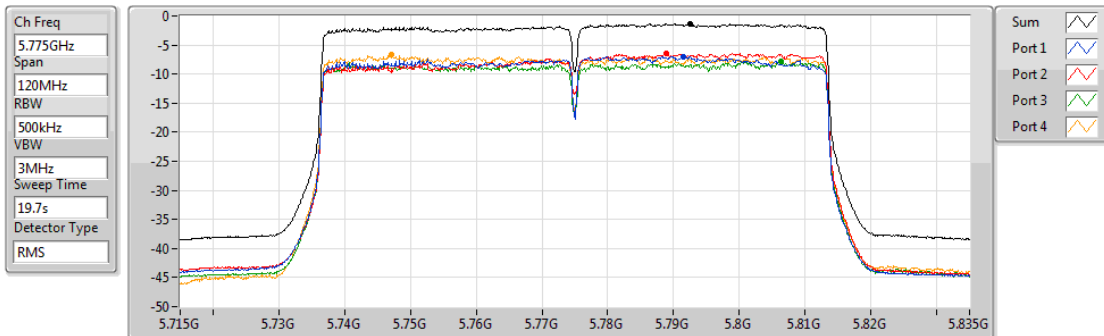
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.32	-5.32	-10.72	-9.97	-12.48	-10.65

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

11/01/2018



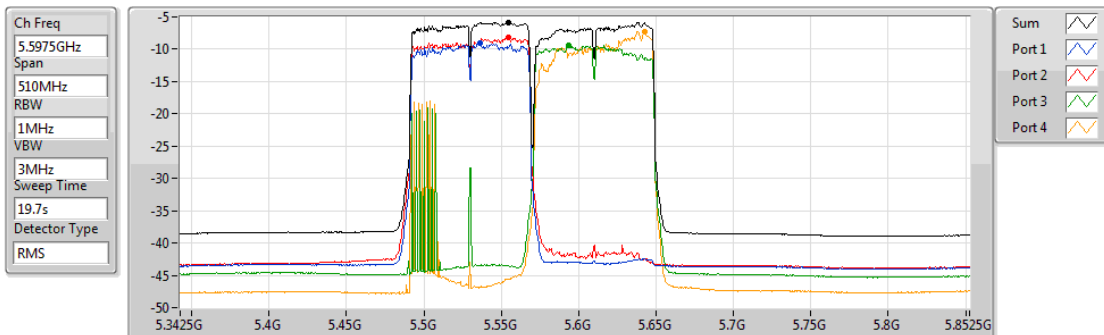
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.39	-1.39	-6.95	-6.38	-7.86	-6.68

802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX

PSD

#5530MHz,#5610MHz

11/01/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.86	-5.86	-9.01	-8.17	-9.36	-7.33



PSD Result(Antenna Gain 15 dBi)
Beamforming_Indoor/Outdoor/Slave

Appendix D.2

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-4.17	16.85
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-7.13	13.89
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-10.73	10.29
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-10.33	7.68
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-0.14	20.88
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-3.17	17.85
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-6.31	14.71

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



PSD Result(Antenna Gain 15 dBi)
Beamforming_Indoor/Outdoor/Slave

Appendix D.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz_TnomVnom	Pass	21.02	-10.23	-10.35	-9.92	-10.22	-4.62	-4.02	16.40	17.00
5580MHz_TnomVnom	Pass	21.02	-9.85	-9.60	-9.52	-9.70	-4.17	-4.02	16.85	17.00
5640MHz_TnomVnom	Pass	21.02	-9.88	-9.84	-9.66	-9.72	-4.34	-4.02	16.68	17.00
5745MHz_TnomVnom	Pass	21.02	-5.59	-5.83	-5.79	-5.50	-0.14	14.98	20.88	36.00
5785MHz_TnomVnom	Pass	21.02	-6.51	-5.89	-6.58	-5.74	-0.57	14.98	20.45	36.00
5825MHz_TnomVnom	Pass	21.02	-5.92	-5.53	-6.12	-5.75	-0.42	14.98	20.60	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz_TnomVnom	Pass	21.02	-12.72	-13.14	-12.67	-13.61	-7.87	-4.02	13.15	17.00
5550MHz_TnomVnom	Pass	21.02	-12.66	-12.61	-12.69	-13.54	-7.67	-4.02	13.35	17.00
5630MHz_TnomVnom	Pass	21.02	-12.91	-12.58	-13.21	-12.11	-7.32	-4.02	13.70	17.00
5755MHz_TnomVnom	Pass	21.02	-8.35	-8.38	-8.16	-8.47	-3.17	14.98	17.85	36.00
5795MHz_TnomVnom	Pass	21.02	-8.58	-8.09	-9.72	-8.88	-3.49	14.98	17.53	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz_TnomVnom	Pass	21.02	-16.51	-16.75	-16.93	-16.81	-11.40	-4.02	9.62	17.00
5610MHz_TnomVnom	Pass	21.02	-16.83	-16.53	-16.20	-16.20	-10.73	-4.02	10.29	17.00
5775MHz_TnomVnom	Pass	21.02	-12.19	-11.24	-11.63	-11.89	-6.31	14.98	14.71	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	18.01	-13.46	-12.90	-13.06	-12.83	-10.33	-1.01	7.68	17.00

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

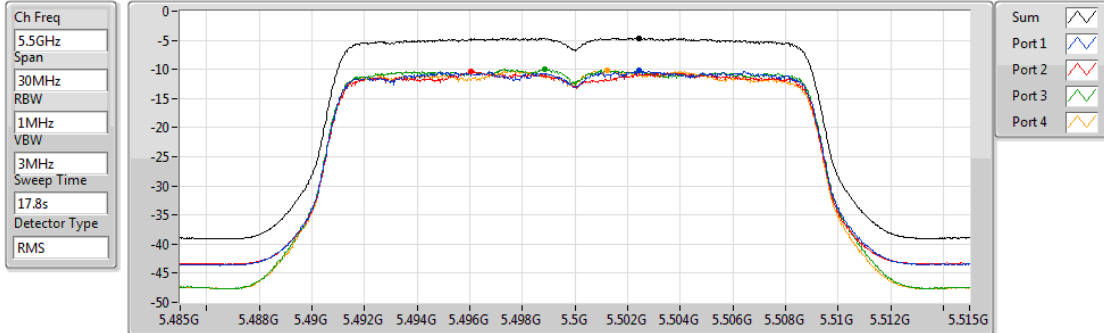
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

12/01/2018



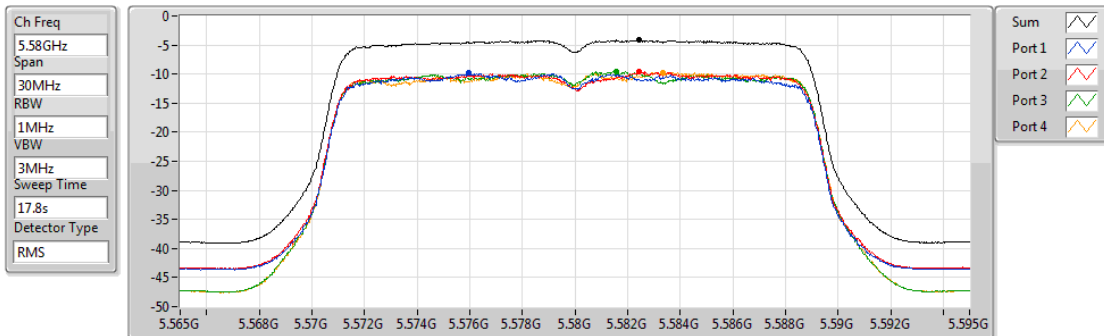
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.62	-4.62	-10.23	-10.35	-9.92	-10.22

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

12/01/2018



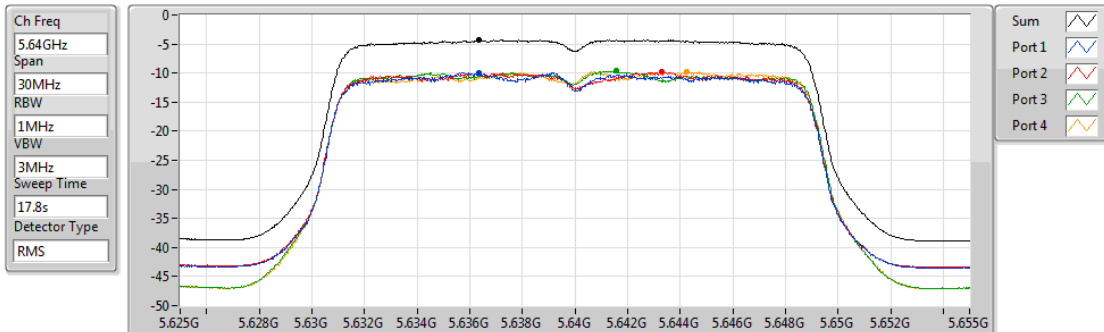
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.17	-4.17	-9.85	-9.60	-9.52	-9.70

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5640MHz

12/01/2018



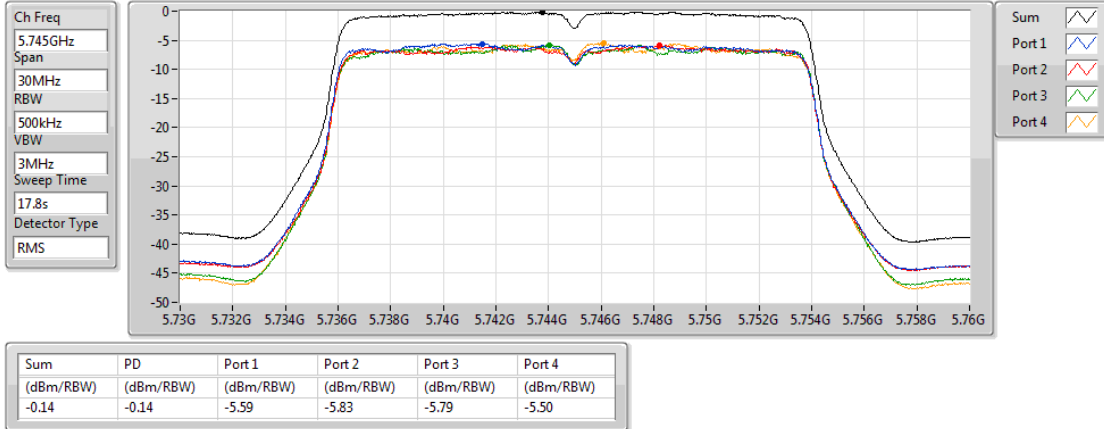
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.34	-4.34	-9.88	-9.84	-9.66	-9.72

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5745MHz

12/01/2018

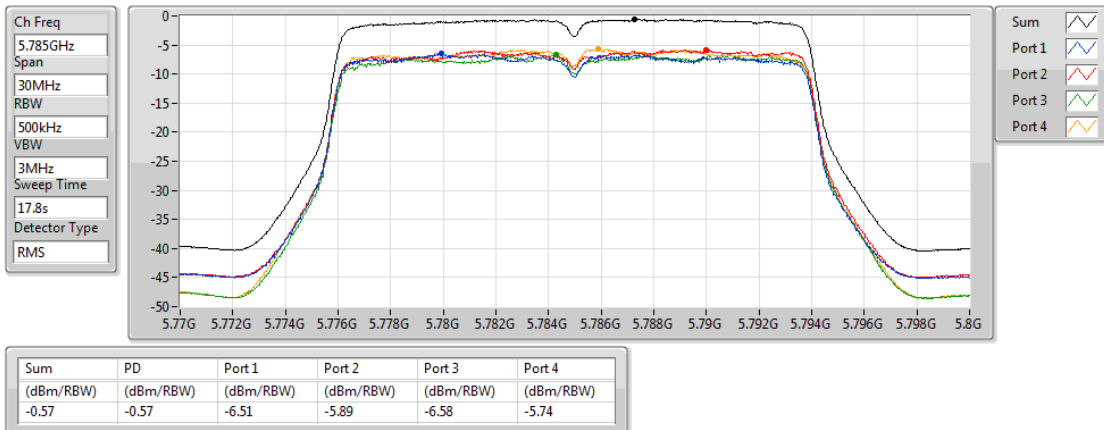


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

12/01/2018

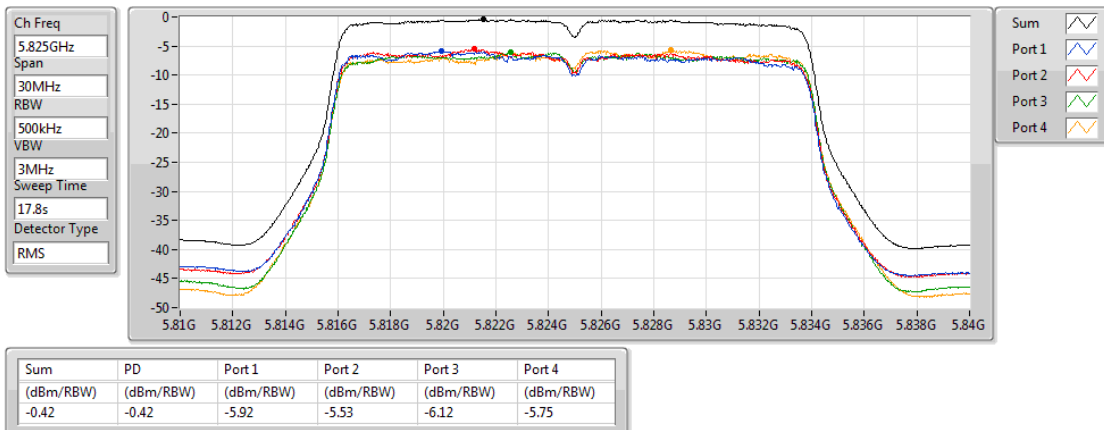


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

12/01/2018

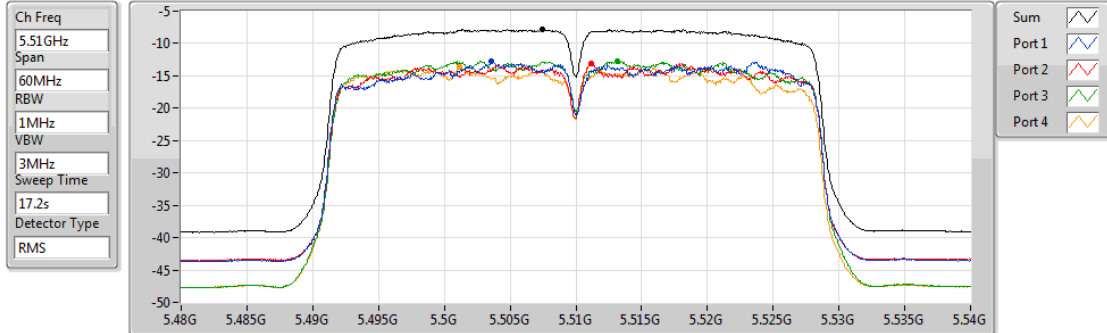


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

12/01/2018



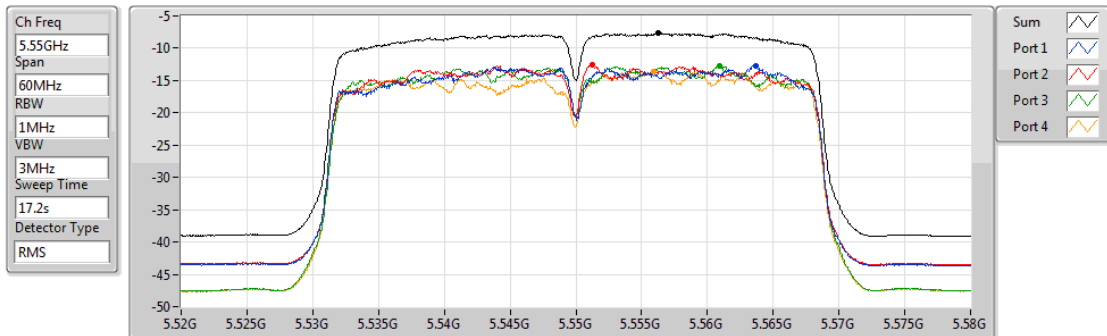
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-7.87	-7.87	-12.72	-13.14	-12.67	-13.61

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

12/01/2018



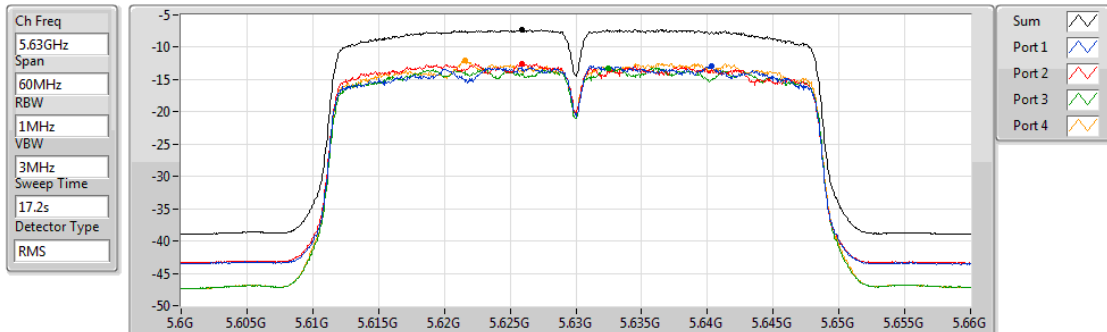
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-7.67	-7.67	-12.66	-12.61	-12.69	-13.54

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5630MHz

12/01/2018



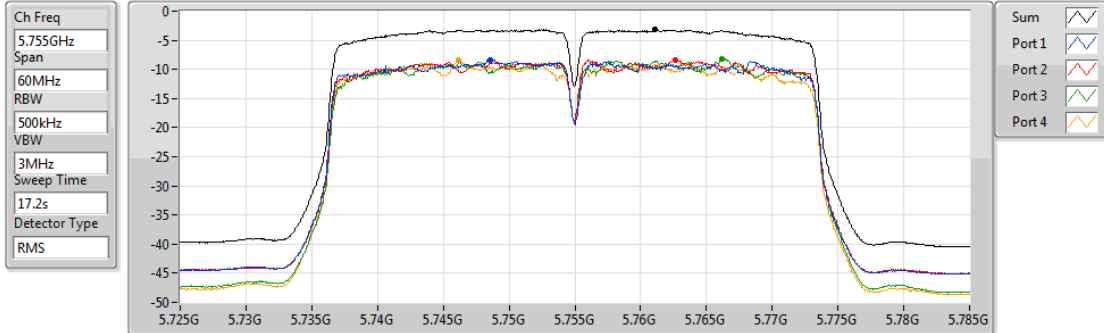
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-7.32	-7.32	-12.91	-12.58	-13.21	-12.11

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5755MHz

12/01/2018



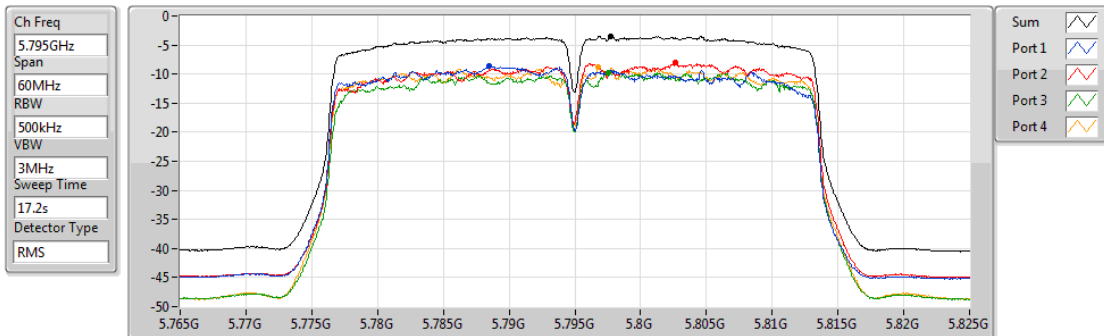
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.17	-3.17	-8.35	-8.38	-8.16	-8.47

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

12/01/2018



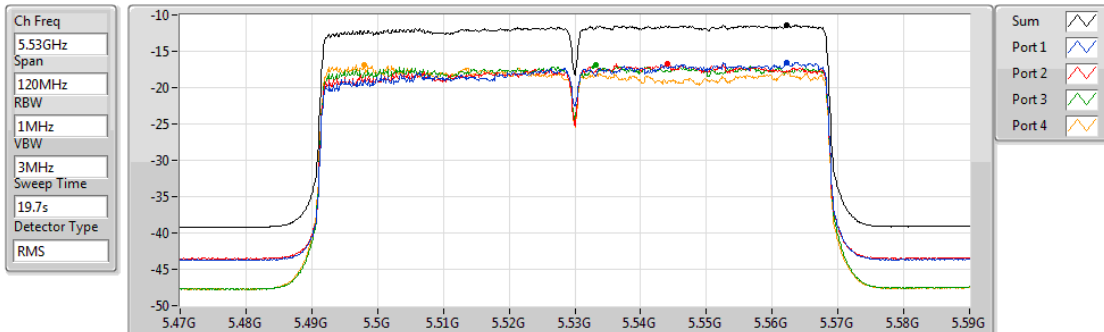
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.49	-3.49	-8.58	-8.09	-9.72	-8.88

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

12/01/2018



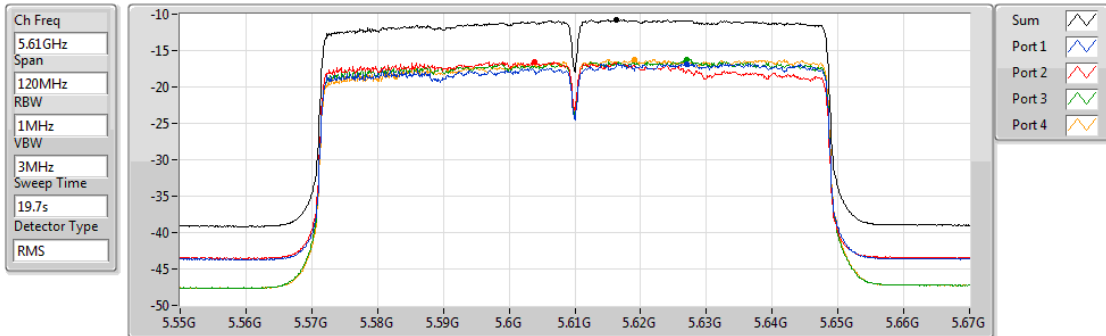
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-11.40	-11.40	-16.51	-16.75	-16.93	-16.81

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

12/01/2018



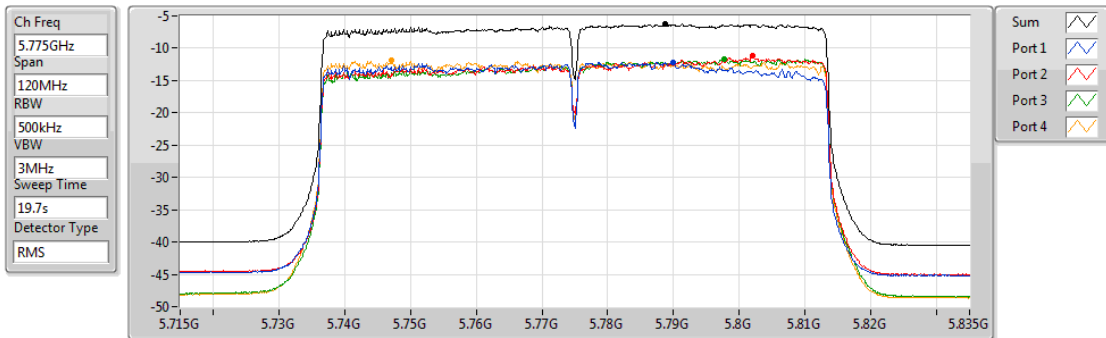
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.73	-10.73	-16.83	-16.53	-16.20	-16.20

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

12/01/2018



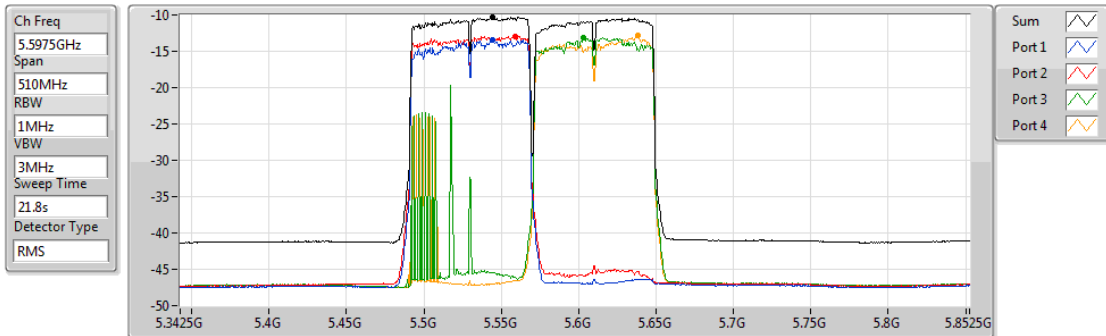
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.31	-6.31	-12.19	-11.24	-11.63	-11.89

802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX

PSD

#5530MHz,#5610MHz

12/01/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.33	-10.33	-13.46	-12.90	-13.06	-12.83



RSE TX below 1GHz Result(Antenna Gain 10 dBi) Beamforming

Appendix E.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	Pass	QP	37.76M	39.11	40.00	-0.89	-16.56	3	Vertical	53	2.48	-



RSE TX below 1GHz Result(Antenna Gain 10 dBi) Beamforming

Appendix E.1

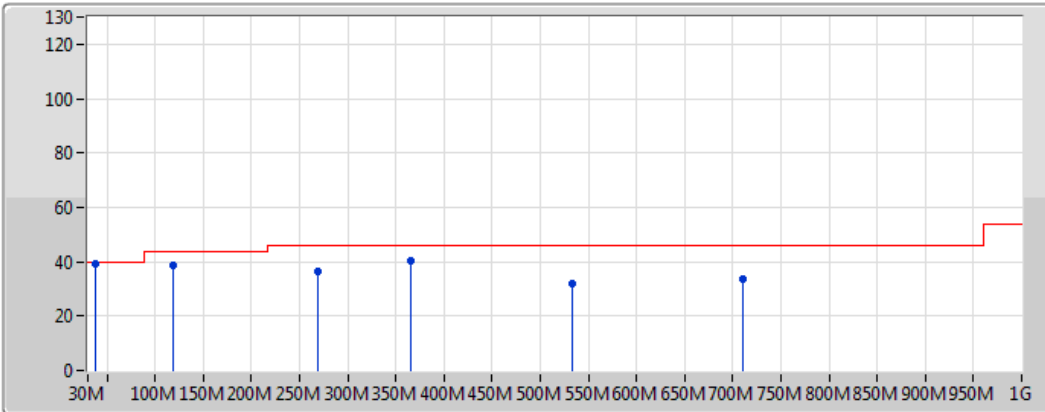
Result

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+80_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
#5530#5610MHz	Pass	PK	61.04M	30.72	40.00	-9.28	-24.81	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	125.06M	34.19	43.50	-9.31	-18.11	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	258.92M	41.75	46.00	-4.25	-14.45	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	472.32M	39.75	46.00	-6.25	-10.36	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	559.62M	36.68	46.00	-9.32	-7.85	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	823.46M	42.07	46.00	-3.93	-4.89	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	119.24M	38.45	43.50	-5.05	-18.26	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	268.62M	36.22	46.00	-9.78	-14.84	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	365.62M	40.47	46.00	-5.53	-13.38	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	710.94M	33.59	46.00	-12.41	-6.95	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	QP	37.76M	39.11	40.00	-0.89	-16.56	3	Vertical	53	2.48	-
#5530#5610MHz	Pass	QP	532.46M	31.80	46.00	-14.20	-9.67	3	Vertical	1	1.95	-

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_PoE

26/01/2018



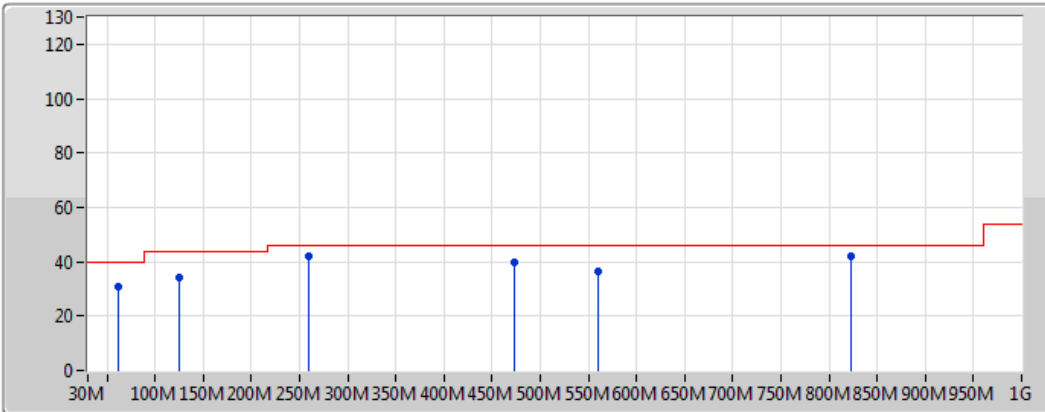
Lim.PK 
PK 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	119.24M	38.45	43.50	-5.05	-18.26	3	Vertical	0	1.00	-	56.71	16.69	1.77	36.72
PK	268.62M	36.22	46.00	-9.78	-14.84	3	Vertical	0	1.00	-	51.06	18.86	2.72	36.42
PK	365.62M	40.47	46.00	-5.53	-13.38	3	Vertical	0	1.00	-	53.85	20.00	3.17	36.55
PK	710.94M	33.59	46.00	-12.41	-6.95	3	Vertical	0	1.00	-	40.54	26.04	4.37	37.36
QP	37.76M	39.11	40.00	-0.89	-16.56	3	Vertical	53	2.48	-	55.67	19.67	1.03	37.26
QP	532.46M	31.80	46.00	-14.20	-9.67	3	Vertical	1	1.95	-	41.47	23.32	4.01	37.01

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_PoE

26/01/2018



Lim.PK 
PK 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	61.04M	30.72	40.00	-9.28	-24.81	3	Horizontal	360	1.00	-	55.53	10.99	1.27	37.07
PK	125.06M	34.19	43.50	-9.31	-18.11	3	Horizontal	360	1.00	-	52.30	16.76	1.83	36.69
PK	258.92M	41.75	46.00	-4.25	-14.45	3	Horizontal	360	1.00	-	56.20	19.34	2.63	36.42
PK	472.32M	39.75	46.00	-6.25	-10.36	3	Horizontal	360	1.00	-	50.11	22.76	3.71	36.84
PK	559.62M	36.68	46.00	-9.32	-7.85	3	Horizontal	360	1.00	-	44.53	25.17	4.06	37.08
PK	823.46M	42.07	46.00	-3.93	-4.89	3	Horizontal	360	1.00	-	46.96	27.58	5.02	37.49



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

Appendix E.2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	11.15832G	52.56	54.00	-1.44	13.81	3	Vertical	41	2.50	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	AV	5.4588G	53.57	54.00	-0.43	5.21	3	Vertical	359	1.50	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	PK	5.468G	65.99	68.20	-2.21	2.91	3	Vertical	351	1.60	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	Pass	PK	5.464G	67.93	68.20	-0.27	2.91	3	Vertical	357	1.50	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	PK	5.9294G	56.94	68.20	-11.26	3.81	3	Vertical	35	1.66	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	PK	5.6126G	57.43	68.20	-10.77	3.16	3	Horizontal	356	1.50	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	PK	5.5098G	57.32	68.20	-10.88	2.95	3	Horizontal	13	1.50	-



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

Appendix E.2

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 VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	AV	5.46G	48.19	54.00	-5.81	5.21	3	Horizontal	124	1.67	-
5500MHz	Pass	AV	5.5044G	101.02	Inf	-Inf	5.27	3	Horizontal	124	1.67	-
5500MHz	Pass	PK	5.4554G	55.60	74.00	-18.40	5.20	3	Horizontal	124	1.67	-
5500MHz	Pass	PK	5.4676G	59.50	68.20	-8.70	5.22	3	Horizontal	124	1.67	-
5500MHz	Pass	PK	5.5046G	107.33	Inf	-Inf	5.27	3	Horizontal	124	1.67	-
5500MHz	Pass	AV	5.4594G	47.95	54.00	-6.05	5.21	3	Vertical	39	1.29	-
5500MHz	Pass	AV	5.5076G	97.50	Inf	-Inf	5.28	3	Vertical	39	1.29	-
5500MHz	Pass	PK	5.4598G	56.12	74.00	-17.88	5.21	3	Vertical	39	1.29	-
5500MHz	Pass	PK	5.467G	57.07	68.20	-11.13	5.22	3	Vertical	39	1.29	-
5500MHz	Pass	PK	5.4952G	103.61	Inf	-Inf	5.25	3	Vertical	39	1.29	-
5500MHz	Pass	AV	10.99988G	51.34	54.00	-2.66	14.03	3	Horizontal	30	2.65	-
5500MHz	Pass	PK	11.00132G	64.94	74.00	-9.06	14.03	3	Horizontal	30	2.65	-
5500MHz	Pass	AV	10.99196G	51.80	54.00	-2.20	14.01	3	Vertical	24	3.02	-
5500MHz	Pass	PK	10.99598G	65.82	74.00	-8.18	14.02	3	Vertical	24	3.02	-
5540MHz	Pass	AV	5.459G	46.56	54.00	-7.44	5.21	3	Horizontal	96	2.25	-
5540MHz	Pass	AV	5.5388G	97.51	Inf	-Inf	5.36	3	Horizontal	96	2.25	-
5540MHz	Pass	PK	5.447G	55.57	74.00	-18.43	5.19	3	Horizontal	96	2.25	-
5540MHz	Pass	PK	5.4698G	55.23	68.20	-12.97	5.22	3	Horizontal	96	2.25	-
5540MHz	Pass	PK	5.5454G	104.08	Inf	-Inf	5.37	3	Horizontal	96	2.25	-
5540MHz	Pass	AV	5.4476G	48.64	54.00	-5.36	5.19	3	Vertical	123	1.37	-
5540MHz	Pass	AV	5.5316G	104.06	Inf	-Inf	5.34	3	Vertical	123	1.37	-
5540MHz	Pass	PK	5.4458G	58.00	74.00	-16.00	5.19	3	Vertical	123	1.37	-
5540MHz	Pass	PK	5.4668G	57.16	68.20	-11.04	5.22	3	Vertical	123	1.37	-
5540MHz	Pass	PK	5.5322G	108.03	Inf	-Inf	5.34	3	Vertical	123	1.37	-
5540MHz	Pass	AV	11.07952G	52.40	54.00	-1.60	13.92	3	Horizontal	48	1.50	-
5540MHz	Pass	PK	11.07344G	67.14	74.00	-6.86	13.93	3	Horizontal	48	1.50	-
5540MHz	Pass	AV	11.08808G	51.74	54.00	-2.26	13.91	3	Vertical	336	3.18	-
5540MHz	Pass	PK	11.08976G	65.00	74.00	-9.00	13.91	3	Vertical	336	3.18	-
5580MHz	Pass	AV	5.4504G	47.13	54.00	-6.87	5.20	3	Horizontal	1	1.55	-
5580MHz	Pass	AV	5.5854G	99.26	Inf	-Inf	5.47	3	Horizontal	1	1.55	-
5580MHz	Pass	PK	5.4396G	56.87	74.00	-17.13	5.18	3	Horizontal	1	1.55	-
5580MHz	Pass	PK	5.4642G	56.72	68.20	-11.48	5.21	3	Horizontal	1	1.55	-
5580MHz	Pass	PK	5.5836G	109.04	Inf	-Inf	5.47	3	Horizontal	1	1.55	-
5580MHz	Pass	PK	5.7258G	57.23	68.20	-10.97	5.83	3	Horizontal	1	1.55	-
5580MHz	Pass	AV	5.451G	47.17	54.00	-6.83	5.20	3	Vertical	348	1.61	-
5580MHz	Pass	AV	5.5722G	99.67	Inf	-Inf	5.44	3	Vertical	348	1.61	-
5580MHz	Pass	PK	5.4588G	57.68	74.00	-16.32	5.21	3	Vertical	348	1.61	-
5580MHz	Pass	PK	5.469G	57.59	68.20	-10.61	5.22	3	Vertical	348	1.61	-
5580MHz	Pass	PK	5.574G	108.19	Inf	-Inf	5.45	3	Vertical	348	1.61	-
5580MHz	Pass	PK	5.7258G	58.60	68.20	-9.60	5.83	3	Vertical	348	1.61	-
5580MHz	Pass	AV	11.15696G	51.82	54.00	-2.18	13.82	3	Horizontal	27	2.41	-
5580MHz	Pass	PK	11.15704G	65.92	74.00	-8.08	13.82	3	Horizontal	27	2.41	-
5580MHz	Pass	AV	11.15832G	52.56	54.00	-1.44	13.81	3	Vertical	41	2.50	-
5580MHz	Pass	PK	11.15512G	66.23	74.00	-7.77	13.82	3	Vertical	41	2.50	-
5640MHz	Pass	AV	5.6444G	99.46	Inf	-Inf	5.63	3	Horizontal	152	1.66	-
5640MHz	Pass	PK	5.644G	109.07	Inf	-Inf	5.62	3	Horizontal	152	1.66	-



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

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
5640MHz	Pass	PK	5.7336G	58.01	68.20	-10.19	5.85	3	Horizontal	152	1.66	-
5640MHz	Pass	AV	5.6344G	99.17	Inf	-Inf	5.60	3	Vertical	83	1.28	-
5640MHz	Pass	PK	5.6348G	108.12	Inf	-Inf	5.60	3	Vertical	83	1.28	-
5640MHz	Pass	PK	5.736G	57.77	68.20	-10.43	5.86	3	Vertical	83	1.28	-
5640MHz	Pass	AV	11.2804G	48.51	54.00	-5.49	13.65	3	Horizontal	33	1.52	-
5640MHz	Pass	PK	11.27952G	61.01	74.00	-12.99	13.65	3	Horizontal	33	1.52	-
5640MHz	Pass	AV	11.28048G	52.22	54.00	-1.78	13.65	3	Vertical	29	2.83	-
5640MHz	Pass	PK	11.28608G	65.88	74.00	-8.12	13.64	3	Vertical	29	2.83	-
5745MHz	Pass	AV	5.7378G	105.93	Inf	-Inf	3.41	3	Horizontal	14	1.56	-
5745MHz	Pass	PK	5.6226G	55.79	68.20	-12.41	3.18	3	Horizontal	14	1.56	-
5745MHz	Pass	PK	5.7378G	113.81	Inf	-Inf	3.41	3	Horizontal	14	1.56	-
5745MHz	Pass	PK	5.9562G	55.15	68.20	-13.05	3.86	3	Horizontal	14	1.56	-
5745MHz	Pass	AV	5.7498G	105.03	Inf	-Inf	3.44	3	Vertical	38	1.50	-
5745MHz	Pass	PK	5.6226G	55.92	68.20	-12.28	3.18	3	Vertical	38	1.50	-
5745MHz	Pass	PK	5.7426G	116.27	Inf	-Inf	3.42	3	Vertical	38	1.50	-
5745MHz	Pass	PK	5.9634G	55.86	68.20	-12.34	3.88	3	Vertical	38	1.50	-
5745MHz	Pass	AV	11.48776G	41.34	54.00	-12.66	13.37	3	Horizontal	0	1.00	-
5745MHz	Pass	PK	11.4804G	55.06	74.00	-18.94	13.38	3	Horizontal	0	1.00	-
5745MHz	Pass	AV	11.47064G	41.46	54.00	-12.54	13.39	3	Vertical	77	1.50	-
5745MHz	Pass	PK	11.47896G	54.83	74.00	-19.17	13.38	3	Vertical	77	1.50	-
5785MHz	Pass	AV	5.7826G	104.89	Inf	-Inf	3.51	3	Horizontal	9	1.56	-
5785MHz	Pass	PK	5.6074G	56.78	68.20	-11.42	3.14	3	Horizontal	9	1.56	-
5785MHz	Pass	PK	5.7826G	114.25	Inf	-Inf	3.51	3	Horizontal	9	1.56	-
5785MHz	Pass	PK	5.9398G	55.32	68.20	-12.88	3.83	3	Horizontal	9	1.56	-
5785MHz	Pass	AV	5.7886G	104.65	Inf	-Inf	3.52	3	Vertical	34	1.61	-
5785MHz	Pass	PK	5.533G	56.39	68.20	-11.81	3.00	3	Vertical	34	1.61	-
5785MHz	Pass	PK	5.7922G	115.60	Inf	-Inf	3.53	3	Vertical	34	1.61	-
5785MHz	Pass	PK	5.9458G	55.88	68.20	-12.32	3.84	3	Vertical	34	1.61	-
5785MHz	Pass	AV	11.57216G	40.93	54.00	-13.07	13.25	3	Horizontal	8	1.59	-
5785MHz	Pass	PK	11.57G	54.54	74.00	-19.46	13.25	3	Horizontal	8	1.59	-
5785MHz	Pass	AV	11.56888G	40.92	54.00	-13.08	13.26	3	Vertical	12	2.34	-
5785MHz	Pass	PK	11.56632G	54.21	74.00	-19.79	13.26	3	Vertical	12	2.34	-
5825MHz	Pass	AV	5.8178G	102.09	Inf	-Inf	3.59	3	Horizontal	358	1.75	-
5825MHz	Pass	PK	5.5526G	56.17	68.20	-12.03	3.04	3	Horizontal	358	1.75	-
5825MHz	Pass	PK	5.8178G	111.10	Inf	-Inf	3.59	3	Horizontal	358	1.75	-
5825MHz	Pass	PK	5.9666G	55.73	68.20	-12.47	3.88	3	Horizontal	358	1.75	-
5825MHz	Pass	AV	5.8178G	104.47	Inf	-Inf	3.59	3	Vertical	35	1.66	-
5825MHz	Pass	PK	5.5658G	56.74	68.20	-11.46	3.06	3	Vertical	35	1.66	-
5825MHz	Pass	PK	5.8202G	114.48	Inf	-Inf	3.59	3	Vertical	35	1.66	-
5825MHz	Pass	PK	5.9294G	56.94	68.20	-11.26	3.81	3	Vertical	35	1.66	-
5825MHz	Pass	AV	11.65328G	40.57	54.00	-13.43	13.14	3	Horizontal	354	1.50	-
5825MHz	Pass	PK	11.64208G	54.29	74.00	-19.71	13.16	3	Horizontal	354	1.50	-
5825MHz	Pass	AV	11.64936G	40.69	54.00	-13.31	13.15	3	Vertical	355	2.48	-
5825MHz	Pass	PK	11.64616G	55.51	74.00	-18.49	13.15	3	Vertical	355	2.48	-
802.11ac VHT40_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	AV	5.4552G	51.79	54.00	-2.21	5.20	3	Horizontal	3	1.50	-
5510MHz	Pass	AV	5.4944G	94.57	Inf	-Inf	5.25	3	Horizontal	3	1.50	-
5510MHz	Pass	PK	5.4552G	64.50	74.00	-9.50	5.20	3	Horizontal	3	1.50	-



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

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
5510MHz	Pass	PK	5.4664G	65.04	68.20	-3.16	5.22	3	Horizontal	3	1.50	-
5510MHz	Pass	PK	5.4936G	102.73	Inf	-Inf	5.25	3	Horizontal	3	1.50	-
5510MHz	Pass	AV	5.4588G	53.57	54.00	-0.43	5.21	3	Vertical	359	1.50	-
5510MHz	Pass	AV	5.4968G	93.13	Inf	-Inf	5.26	3	Vertical	359	1.50	-
5510MHz	Pass	PK	5.4572G	68.02	74.00	-5.98	5.20	3	Vertical	359	1.50	-
5510MHz	Pass	PK	5.4656G	66.24	68.20	-1.96	5.22	3	Vertical	359	1.50	-
5510MHz	Pass	PK	5.4976G	102.28	Inf	-Inf	5.26	3	Vertical	359	1.50	-
5510MHz	Pass	AV	11.0067G	48.33	54.00	-5.67	14.02	3	Horizontal	326	1.57	-
5510MHz	Pass	PK	11.0257G	60.79	74.00	-13.21	14.00	3	Horizontal	326	1.57	-
5510MHz	Pass	AV	11.03008G	45.84	54.00	-8.16	13.99	3	Vertical	25	1.50	-
5510MHz	Pass	PK	11.0212G	59.17	74.00	-14.83	14.00	3	Vertical	25	1.50	-
5550MHz	Pass	AV	5.4544G	49.76	54.00	-4.24	5.20	3	Horizontal	3	1.50	-
5550MHz	Pass	AV	5.5332G	97.59	Inf	-Inf	5.34	3	Horizontal	3	1.50	-
5550MHz	Pass	PK	5.4544G	62.11	74.00	-11.89	5.20	3	Horizontal	3	1.50	-
5550MHz	Pass	PK	5.464G	62.12	68.20	-6.08	5.21	3	Horizontal	3	1.50	-
5550MHz	Pass	PK	5.5524G	103.61	Inf	-Inf	5.39	3	Horizontal	3	1.50	-
5550MHz	Pass	AV	5.46G	50.01	54.00	-3.99	5.21	3	Vertical	335	1.50	-
5550MHz	Pass	AV	5.5364G	96.85	Inf	-Inf	5.35	3	Vertical	335	1.50	-
5550MHz	Pass	PK	5.456G	63.58	74.00	-10.42	5.20	3	Vertical	335	1.50	-
5550MHz	Pass	PK	5.4648G	64.80	68.20	-3.40	5.21	3	Vertical	335	1.50	-
5550MHz	Pass	PK	5.5364G	104.77	Inf	-Inf	5.35	3	Vertical	335	1.50	-
5550MHz	Pass	AV	11.08128G	51.50	54.00	-2.50	13.92	3	Horizontal	30	2.54	-
5550MHz	Pass	PK	11.0896G	65.23	74.00	-8.77	13.91	3	Horizontal	30	2.54	-
5550MHz	Pass	AV	11.08344G	49.50	54.00	-4.50	13.92	3	Vertical	37	3.00	-
5550MHz	Pass	PK	11.09592G	61.95	74.00	-12.05	13.90	3	Vertical	37	3.00	-
5590MHz	Pass	AV	5.4484G	43.65	54.00	-10.35	2.90	3	Horizontal	358	1.52	-
5590MHz	Pass	AV	5.5942G	103.86	Inf	-Inf	3.12	3	Horizontal	358	1.52	-
5590MHz	Pass	PK	5.4526G	56.79	74.00	-17.21	2.91	3	Horizontal	358	1.52	-
5590MHz	Pass	PK	5.464G	57.59	68.20	-10.61	2.91	3	Horizontal	358	1.52	-
5590MHz	Pass	PK	5.5942G	113.41	Inf	-Inf	3.12	3	Horizontal	358	1.52	-
5590MHz	Pass	PK	5.7274G	64.08	68.20	-4.12	3.39	3	Horizontal	358	1.52	-
5590MHz	Pass	AV	5.4562G	44.05	54.00	-9.95	2.91	3	Vertical	19	1.54	-
5590MHz	Pass	AV	5.5954G	103.20	Inf	-Inf	3.12	3	Vertical	19	1.54	-
5590MHz	Pass	PK	5.443G	57.17	74.00	-16.83	2.90	3	Vertical	19	1.54	-
5590MHz	Pass	PK	5.4676G	55.82	68.20	-12.38	2.91	3	Vertical	19	1.54	-
5590MHz	Pass	PK	5.5954G	114.26	Inf	-Inf	3.12	3	Vertical	19	1.54	-
5590MHz	Pass	PK	5.7352G	56.48	68.20	-11.72	3.41	3	Vertical	19	1.54	-
5590MHz	Pass	AV	11.1612G	47.57	54.00	-6.43	13.69	3	Horizontal	327	1.49	-
5590MHz	Pass	PK	11.17576G	62.41	74.00	-11.59	13.67	3	Horizontal	327	1.49	-
5590MHz	Pass	AV	11.16384G	51.66	54.00	-2.34	13.69	3	Vertical	58	1.36	-
5590MHz	Pass	PK	11.16232G	64.77	74.00	-9.23	13.69	3	Vertical	58	1.36	-
5630MHz	Pass	AV	5.615G	102.44	Inf	-Inf	3.16	3	Horizontal	14	1.49	-
5630MHz	Pass	PK	5.6138G	115.60	Inf	-Inf	3.16	3	Horizontal	14	1.49	-
5630MHz	Pass	PK	5.771G	57.05	68.20	-11.15	3.49	3	Horizontal	14	1.49	-
5630MHz	Pass	AV	5.6366G	102.23	Inf	-Inf	3.20	3	Vertical	22	1.49	-
5630MHz	Pass	PK	5.6324G	113.97	Inf	-Inf	3.19	3	Vertical	22	1.49	-
5630MHz	Pass	PK	5.7638G	56.23	68.20	-11.97	3.47	3	Vertical	22	1.49	-
5630MHz	Pass	AV	11.24184G	49.17	54.00	-4.83	13.70	3	Horizontal	37	1.99	-



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

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
5630MHz	Pass	PK	11.2408G	61.45	74.00	-12.55	13.70	3	Horizontal	37	1.99	-
5630MHz	Pass	AV	11.24136G	48.83	54.00	-5.17	13.70	3	Vertical	30	2.90	-
5630MHz	Pass	PK	11.26288G	62.06	74.00	-11.94	13.67	3	Vertical	30	2.90	-
5755MHz	Pass	AV	5.7382G	103.61	Inf	-Inf	3.41	3	Horizontal	15	1.29	-
5755MHz	Pass	PK	5.641G	56.96	68.20	-11.24	3.21	3	Horizontal	15	1.29	-
5755MHz	Pass	PK	5.7394G	113.95	Inf	-Inf	3.42	3	Horizontal	15	1.29	-
5755MHz	Pass	PK	5.9338G	55.97	68.20	-12.23	3.82	3	Horizontal	15	1.29	-
5755MHz	Pass	AV	5.7634G	103.27	Inf	-Inf	3.47	3	Vertical	3	1.71	-
5755MHz	Pass	PK	5.6038G	56.12	68.20	-12.08	3.14	3	Vertical	3	1.71	-
5755MHz	Pass	PK	5.7634G	114.35	Inf	-Inf	3.47	3	Vertical	3	1.71	-
5755MHz	Pass	PK	5.9842G	56.32	68.20	-11.88	3.92	3	Vertical	3	1.71	-
5755MHz	Pass	AV	11.4964G	41.65	54.00	-12.35	13.35	3	Horizontal	315	2.90	-
5755MHz	Pass	PK	11.502G	54.63	74.00	-19.37	13.35	3	Horizontal	315	2.90	-
5755MHz	Pass	AV	11.49344G	43.10	54.00	-10.90	13.36	3	Vertical	42	1.01	-
5755MHz	Pass	PK	11.51624G	55.22	74.00	-18.78	13.33	3	Vertical	42	1.01	-
5795MHz	Pass	AV	5.807G	101.92	Inf	-Inf	3.56	3	Horizontal	356	1.50	-
5795MHz	Pass	PK	5.6126G	57.43	68.20	-10.77	3.16	3	Horizontal	356	1.50	-
5795MHz	Pass	PK	5.8058G	112.76	Inf	-Inf	3.56	3	Horizontal	356	1.50	-
5795MHz	Pass	PK	5.9678G	55.69	68.20	-12.51	3.89	3	Horizontal	356	1.50	-
5795MHz	Pass	AV	5.8022G	102.42	Inf	-Inf	3.55	3	Vertical	34	1.66	-
5795MHz	Pass	PK	5.6426G	56.60	68.20	-11.60	3.22	3	Vertical	34	1.66	-
5795MHz	Pass	PK	5.8046G	113.91	Inf	-Inf	3.56	3	Vertical	34	1.66	-
5795MHz	Pass	PK	5.9594G	56.41	68.20	-11.79	3.87	3	Vertical	34	1.66	-
5795MHz	Pass	AV	11.58536G	41.08	54.00	-12.92	13.23	3	Horizontal	273	2.16	-
5795MHz	Pass	PK	11.5912G	54.10	74.00	-19.90	13.23	3	Horizontal	273	2.16	-
5795MHz	Pass	AV	11.57576G	41.18	54.00	-12.82	13.25	3	Vertical	329	2.23	-
5795MHz	Pass	PK	11.59944G	55.67	74.00	-18.33	13.21	3	Vertical	329	2.23	-
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	AV	5.437G	47.10	54.00	-6.90	2.90	3	Horizontal	339	1.46	-
5530MHz	Pass	AV	5.503G	92.50	Inf	-Inf	2.94	3	Horizontal	339	1.46	-
5530MHz	Pass	PK	5.456G	62.96	74.00	-11.04	2.91	3	Horizontal	339	1.46	-
5530MHz	Pass	PK	5.467G	63.97	68.20	-4.23	2.91	3	Horizontal	339	1.46	-
5530MHz	Pass	PK	5.501G	103.24	Inf	-Inf	2.93	3	Horizontal	339	1.46	-
5530MHz	Pass	PK	5.736G	56.62	68.20	-11.58	3.41	3	Horizontal	339	1.46	-
5530MHz	Pass	AV	5.46G	50.71	54.00	-3.29	2.91	3	Vertical	351	1.60	-
5530MHz	Pass	AV	5.547G	93.69	Inf	-Inf	3.02	3	Vertical	351	1.60	-
5530MHz	Pass	PK	5.447G	66.52	74.00	-7.48	2.90	3	Vertical	351	1.60	-
5530MHz	Pass	PK	5.468G	65.99	68.20	-2.21	2.91	3	Vertical	351	1.60	-
5530MHz	Pass	PK	5.5G	108.88	Inf	-Inf	2.93	3	Vertical	351	1.60	-
5530MHz	Pass	PK	5.747G	58.33	68.20	-9.87	3.43	3	Vertical	351	1.60	-
5530MHz	Pass	AV	11.05488G	44.75	54.00	-9.25	13.96	3	Horizontal	30	1.50	-
5530MHz	Pass	PK	11.07464G	58.69	74.00	-15.31	13.93	3	Horizontal	30	1.50	-
5530MHz	Pass	AV	11.05424G	45.72	54.00	-8.28	13.96	3	Vertical	28	2.83	-
5530MHz	Pass	PK	11.0624G	58.84	74.00	-15.16	13.95	3	Vertical	28	2.83	-
5610MHz	Pass	AV	5.46G	49.58	54.00	-4.42	2.91	3	Horizontal	29	1.52	-
5610MHz	Pass	AV	5.599G	100.52	Inf	-Inf	3.13	3	Horizontal	29	1.52	-
5610MHz	Pass	PK	5.456G	61.79	74.00	-12.21	2.91	3	Horizontal	29	1.52	-
5610MHz	Pass	PK	5.468G	62.77	68.20	-5.43	2.91	3	Horizontal	29	1.52	-



RSE TX above 1GHz Result(Antenna Gain 10 dBi) Beamforming

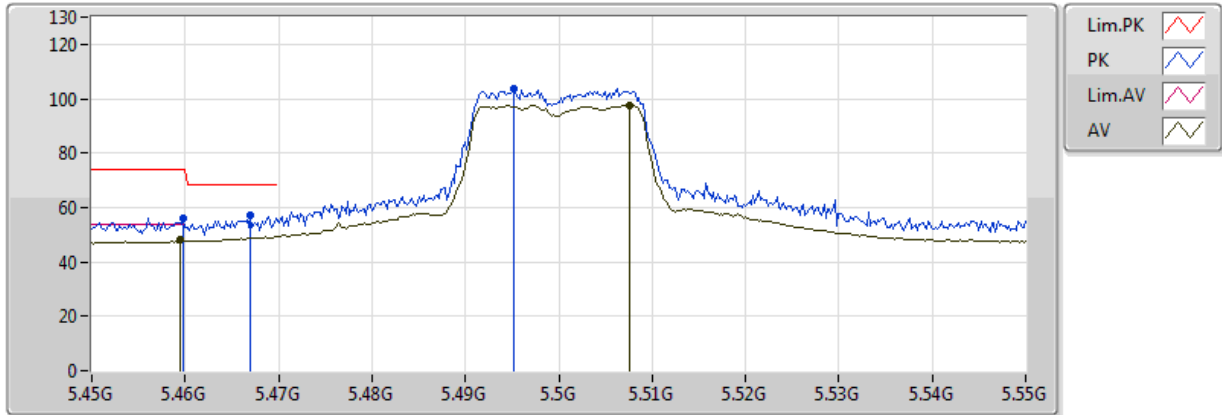
Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5610MHz	Pass	PK	5.598G	109.87	Inf	-Inf	3.13	3	Horizontal	29	1.52	-
5610MHz	Pass	PK	5.787G	55.26	68.20	-12.94	3.52	3	Horizontal	29	1.52	-
5610MHz	Pass	AV	5.46G	48.46	54.00	-5.54	2.91	3	Vertical	19	1.50	-
5610MHz	Pass	AV	5.628G	98.26	Inf	-Inf	3.19	3	Vertical	19	1.50	-
5610MHz	Pass	PK	5.455G	63.10	74.00	-10.90	2.91	3	Vertical	19	1.50	-
5610MHz	Pass	PK	5.465G	61.98	68.20	-6.22	2.91	3	Vertical	19	1.50	-
5610MHz	Pass	PK	5.603G	110.48	Inf	-Inf	3.14	3	Vertical	19	1.50	-
5610MHz	Pass	PK	5.77G	56.46	68.20	-11.74	3.48	3	Vertical	19	1.50	-
5610MHz	Pass	AV	11.20024G	47.54	54.00	-6.46	13.76	3	Horizontal	329	1.94	-
5610MHz	Pass	PK	11.20032G	60.92	74.00	-13.08	13.76	3	Horizontal	329	1.94	-
5610MHz	Pass	AV	11.20368G	47.68	54.00	-6.32	13.75	3	Vertical	345	2.51	-
5610MHz	Pass	PK	11.2044G	58.97	74.00	-15.03	13.75	3	Vertical	345	2.51	-
5775MHz	Pass	AV	5.7678G	98.87	Inf	-Inf	3.48	3	Horizontal	13	1.50	-
5775MHz	Pass	PK	5.5098G	57.32	68.20	-10.88	2.95	3	Horizontal	13	1.50	-
5775MHz	Pass	PK	5.7402G	109.38	Inf	-Inf	3.42	3	Horizontal	13	1.50	-
5775MHz	Pass	PK	5.9586G	56.20	68.20	-12.00	3.87	3	Horizontal	13	1.50	-
5775MHz	Pass	AV	5.799G	97.61	Inf	-Inf	3.55	3	Vertical	31	1.70	-
5775MHz	Pass	PK	5.5446G	56.58	68.20	-11.62	3.02	3	Vertical	31	1.70	-
5775MHz	Pass	PK	5.7438G	111.99	Inf	-Inf	3.43	3	Vertical	31	1.70	-
5775MHz	Pass	PK	5.9442G	55.97	68.20	-12.23	3.84	3	Vertical	31	1.70	-
5775MHz	Pass	AV	11.53688G	41.48	54.00	-12.52	13.30	3	Horizontal	300	1.50	-
5775MHz	Pass	PK	11.54576G	55.36	74.00	-18.64	13.29	3	Horizontal	300	1.50	-
5775MHz	Pass	AV	11.5364G	41.57	54.00	-12.43	13.30	3	Vertical	153	1.50	-
5775MHz	Pass	PK	11.5552G	54.54	74.00	-19.46	13.27	3	Vertical	153	1.50	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
#5530#5610MHz	Pass	AV	5.453G	46.15	54.00	-7.85	2.91	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	AV	5.494G	96.10	Inf	-Inf	2.93	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	PK	5.452G	66.89	74.00	-7.11	2.91	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	PK	5.467G	63.62	68.20	-4.58	2.91	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	PK	5.6G	100.53	Inf	-Inf	3.13	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	PK	5.796G	55.75	68.20	-12.45	3.54	3	Horizontal	29	1.52	-
#5530#5610MHz	Pass	AV	5.455G	47.44	54.00	-6.56	2.91	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	AV	5.586G	88.94	Inf	-Inf	3.10	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	PK	5.455G	68.84	74.00	-5.16	2.91	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	PK	5.464G	67.93	68.20	-0.27	2.91	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	PK	5.516G	100.48	Inf	-Inf	2.96	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	PK	5.797G	55.83	68.20	-12.37	3.54	3	Vertical	357	1.50	-
#5530#5610MHz	Pass	AV	11.06738G	41.91	54.00	-12.09	13.94	3	Horizontal	111	1.78	-
#5530#5610MHz	Pass	PK	11.05682G	55.33	74.00	-18.67	13.95	3	Horizontal	111	1.78	-
#5530#5610MHz	Pass	AV	11.05064G	42.24	54.00	-11.76	13.85	3	Vertical	195	2.27	-
#5530#5610MHz	Pass	PK	11.05308G	55.98	74.00	-18.02	13.82	3	Vertical	195	2.27	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

09/01/2018

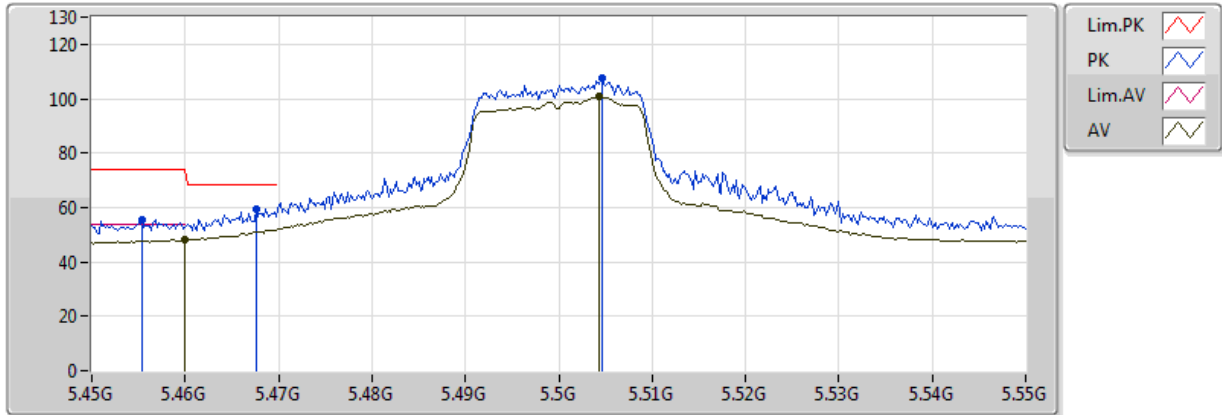


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4594G	47.95	54.00	-6.05	5.21	3	Vertical	39	1.29	-	42.74	31.87	8.51	35.17
AV	5.5076G	97.50	Inf	-Inf	5.28	3	Vertical	39	1.29	-	92.22	31.91	8.54	35.17
PK	5.4598G	56.12	74.00	-17.88	5.21	3	Vertical	39	1.29	-	50.91	31.87	8.51	35.17
PK	5.467G	57.07	68.20	-11.13	5.22	3	Vertical	39	1.29	-	51.86	31.87	8.52	35.17
PK	5.4952G	103.61	Inf	-Inf	5.25	3	Vertical	39	1.29	-	98.36	31.90	8.53	35.17

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

09/01/2018

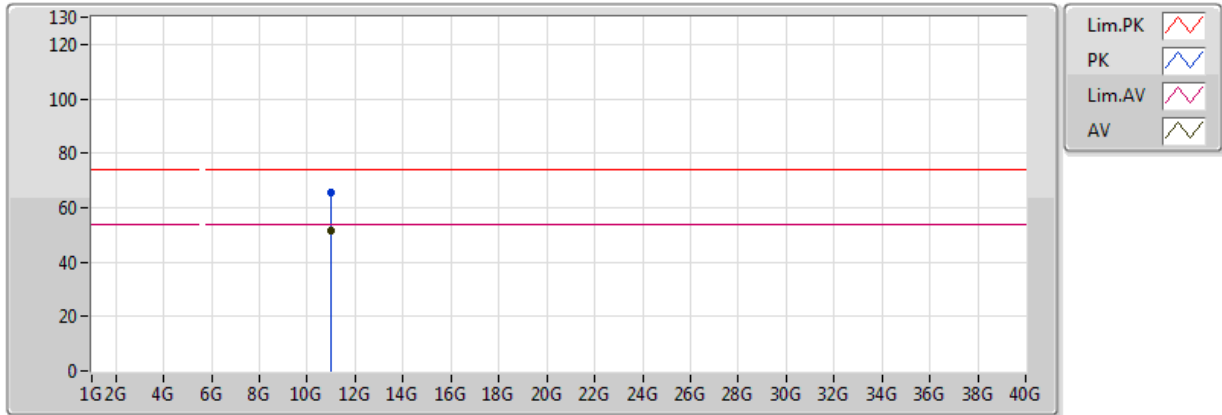


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	48.19	54.00	-5.81	5.21	3	Horizontal	124	1.67	-	42.98	31.87	8.51	35.17
AV	5.5044G	101.02	Inf	-Inf	5.27	3	Horizontal	124	1.67	-	95.75	31.91	8.54	35.17
PK	5.4554G	55.60	74.00	-18.40	5.20	3	Horizontal	124	1.67	-	50.40	31.86	8.51	35.17
PK	5.4676G	59.50	68.20	-8.70	5.22	3	Horizontal	124	1.67	-	54.29	31.87	8.52	35.17
PK	5.5046G	107.33	Inf	-Inf	5.27	3	Horizontal	124	1.67	-	102.06	31.91	8.54	35.17

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

09/01/2018

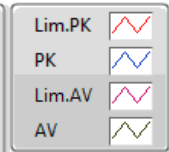
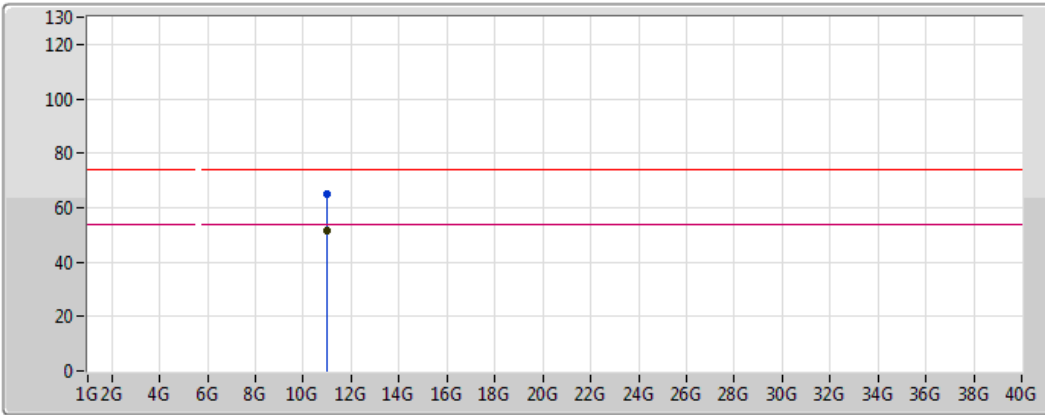


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.99196G	51.80	54.00	-2.20	14.01	3	Vertical	24	3.02	-	37.79	40.39	8.22	34.60
PK	10.99598G	65.82	74.00	-8.18	14.02	3	Vertical	24	3.02	-	51.80	40.39	8.22	34.59

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

09/01/2018

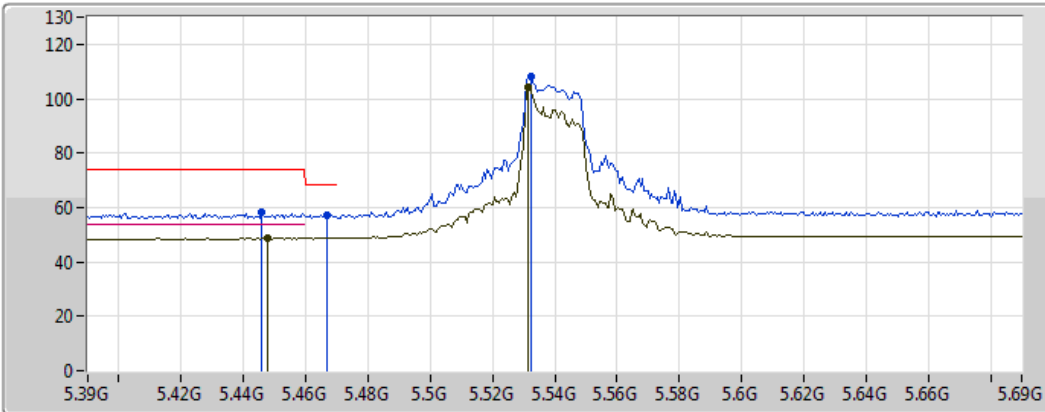


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.99988G	51.34	54.00	-2.66	14.03	3	Horizontal	30	2.65	-	37.31	40.40	8.22	34.59
PK	11.00132G	64.94	74.00	-9.06	14.03	3	Horizontal	30	2.65	-	50.91	40.40	8.22	34.59

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

10/01/2018

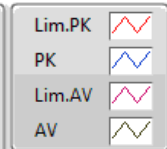
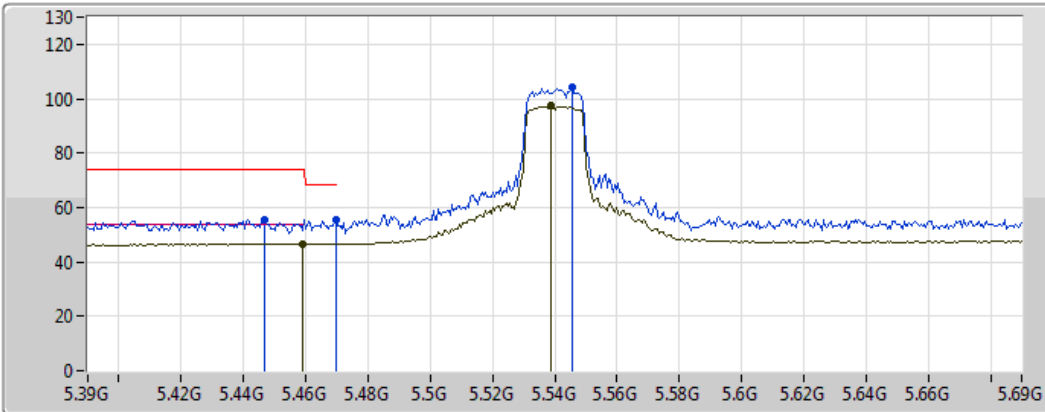


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4476G	48.64	54.00	-5.36	5.19	3	Vertical	123	1.37	-	43.45	31.86	8.51	35.18
AV	5.5316G	104.06	Inf	-Inf	5.34	3	Vertical	123	1.37	-	98.72	31.94	8.57	35.17
PK	5.4458G	58.00	74.00	-16.00	5.19	3	Vertical	123	1.37	-	52.81	31.86	8.51	35.18
PK	5.4668G	57.16	68.20	-11.04	5.22	3	Vertical	123	1.37	-	51.94	31.87	8.52	35.17
PK	5.5322G	108.03	Inf	-Inf	5.34	3	Vertical	123	1.37	-	102.69	31.94	8.58	35.17

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

10/01/2018

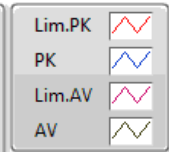
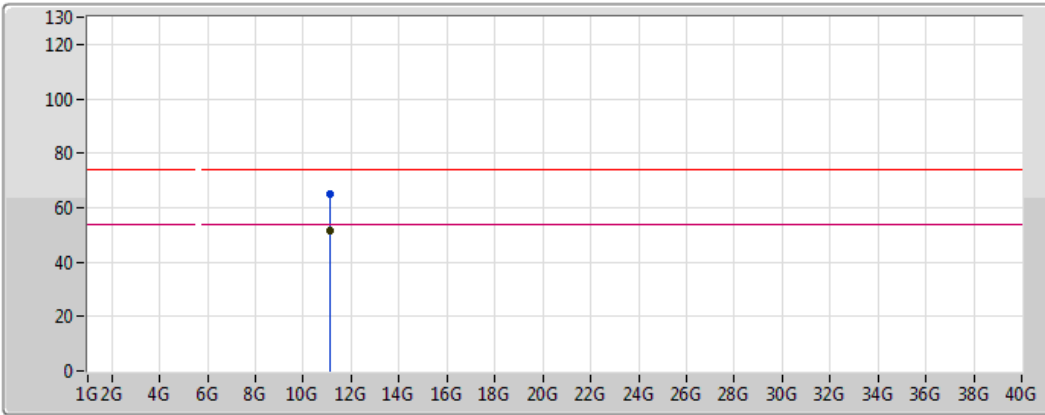


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459G	46.56	54.00	-7.44	5.21	3	Horizontal	96	2.25	-	41.36	31.87	8.51	35.17
AV	5.5388G	97.51	Inf	-Inf	5.36	3	Horizontal	96	2.25	-	92.15	31.95	8.58	35.17
PK	5.447G	55.57	74.00	-18.43	5.19	3	Horizontal	96	2.25	-	50.38	31.86	8.51	35.18
PK	5.4698G	55.23	68.20	-12.97	5.22	3	Horizontal	96	2.25	-	50.01	31.88	8.52	35.17
PK	5.5454G	104.08	Inf	-Inf	5.37	3	Horizontal	96	2.25	-	98.70	31.95	8.59	35.17

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

10/01/2018

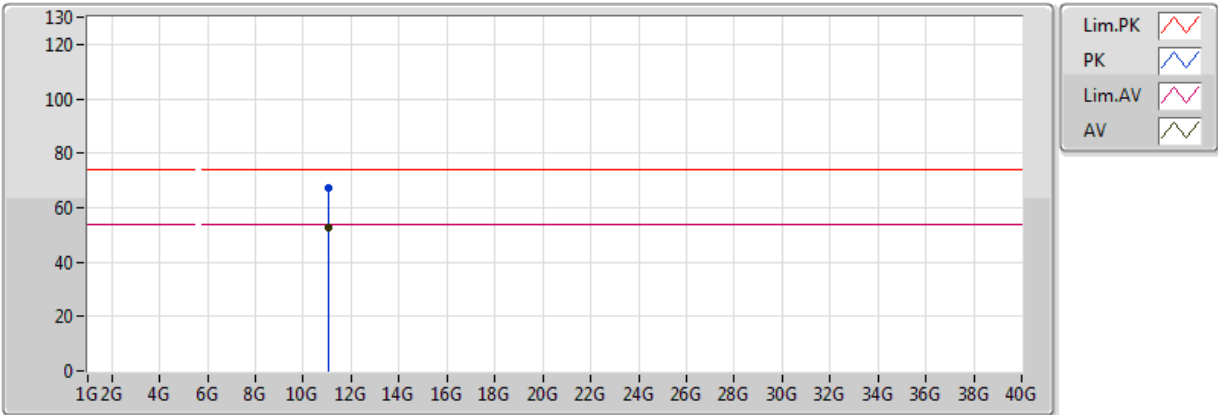


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.08808G	51.74	54.00	-2.26	13.91	3	Vertical	336	3.18	-	37.83	40.28	8.24	34.61
PK	11.08976G	65.00	74.00	-9.00	13.91	3	Vertical	336	3.18	-	51.09	40.27	8.24	34.61

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

10/01/2018

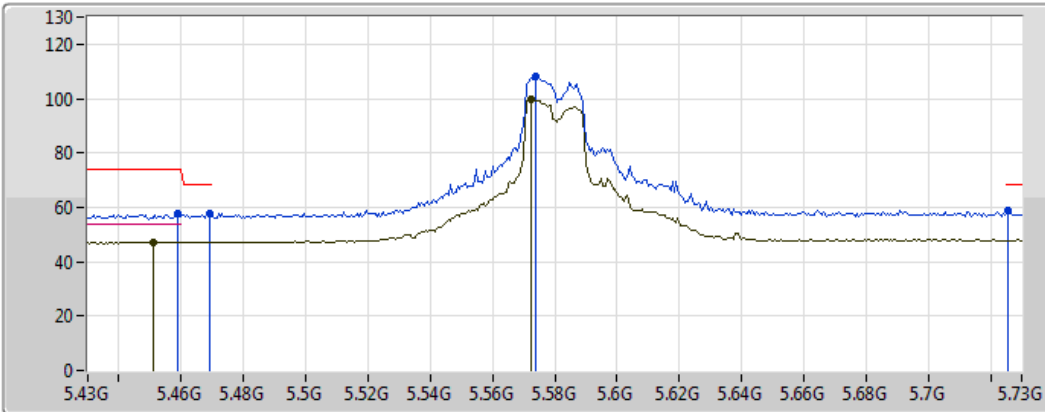


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.07952G	52.40	54.00	-1.60	13.92	3	Horizontal	48	1.50	-	38.48	40.29	8.24	34.61
PK	11.07344G	67.14	74.00	-6.86	13.93	3	Horizontal	48	1.50	-	53.21	40.30	8.24	34.61

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

09/01/2018

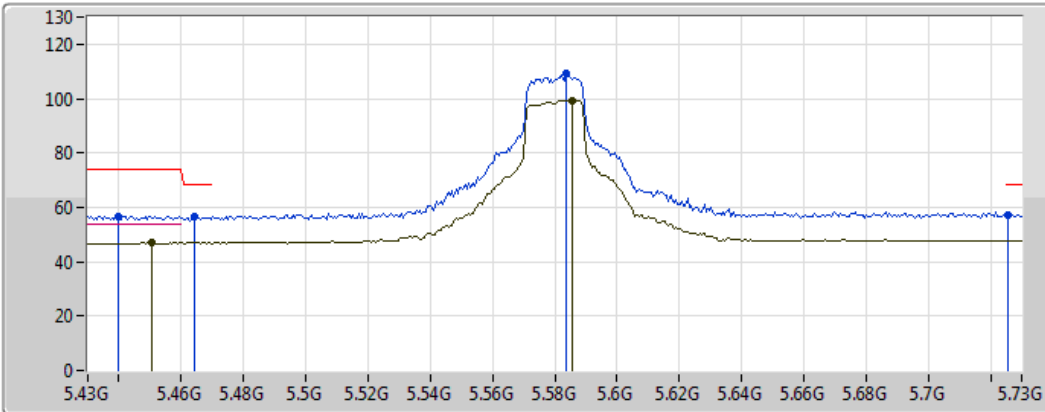


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.451G	47.17	54.00	-6.83	5.20	3	Vertical	348	1.61	-	41.97	31.86	8.51	35.17
AV	5.5722G	99.67	Inf	-Inf	5.44	3	Vertical	348	1.61	-	94.23	31.99	8.63	35.18
PK	5.4588G	57.68	74.00	-16.32	5.21	3	Vertical	348	1.61	-	52.47	31.87	8.51	35.17
PK	5.469G	57.59	68.20	-10.61	5.22	3	Vertical	348	1.61	-	52.37	31.88	8.52	35.17
PK	5.574G	108.19	Inf	-Inf	5.45	3	Vertical	348	1.61	-	102.75	31.99	8.63	35.18
PK	5.7258G	58.60	68.20	-9.60	5.83	3	Vertical	348	1.61	-	52.76	32.17	8.85	35.18

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

09/01/2018

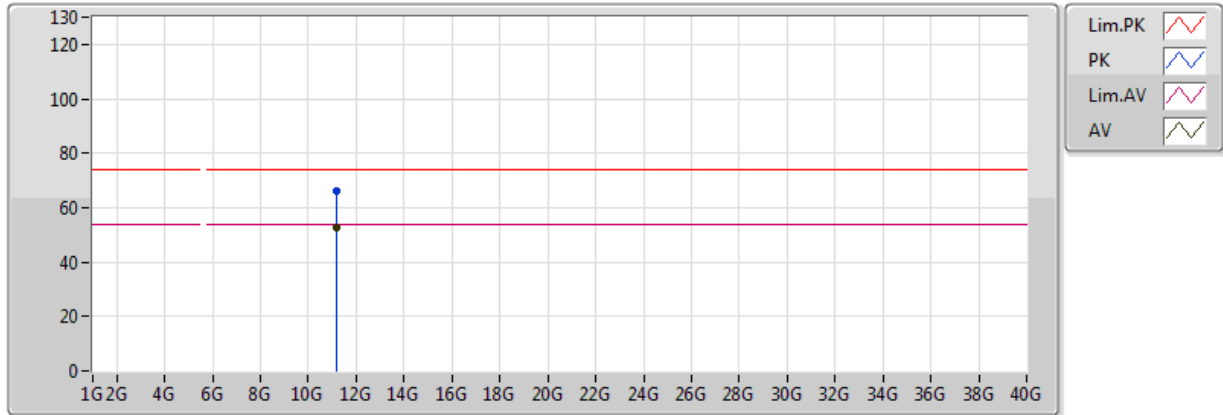


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4504G	47.13	54.00	-6.87	5.20	3	Horizontal	1	1.55	-	41.94	31.86	8.51	35.17
AV	5.5854G	99.26	Inf	-Inf	5.47	3	Horizontal	1	1.55	-	93.79	32.00	8.65	35.18
PK	5.4396G	56.87	74.00	-17.13	5.18	3	Horizontal	1	1.55	-	51.69	31.85	8.51	35.18
PK	5.4642G	56.72	68.20	-11.48	5.21	3	Horizontal	1	1.55	-	51.51	31.87	8.52	35.17
PK	5.5836G	109.04	Inf	-Inf	5.47	3	Horizontal	1	1.55	-	103.57	32.00	8.65	35.18
PK	5.7258G	57.23	68.20	-10.97	5.83	3	Horizontal	1	1.55	-	51.39	32.17	8.85	35.18

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

09/01/2018

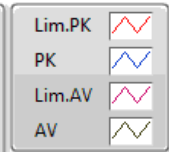
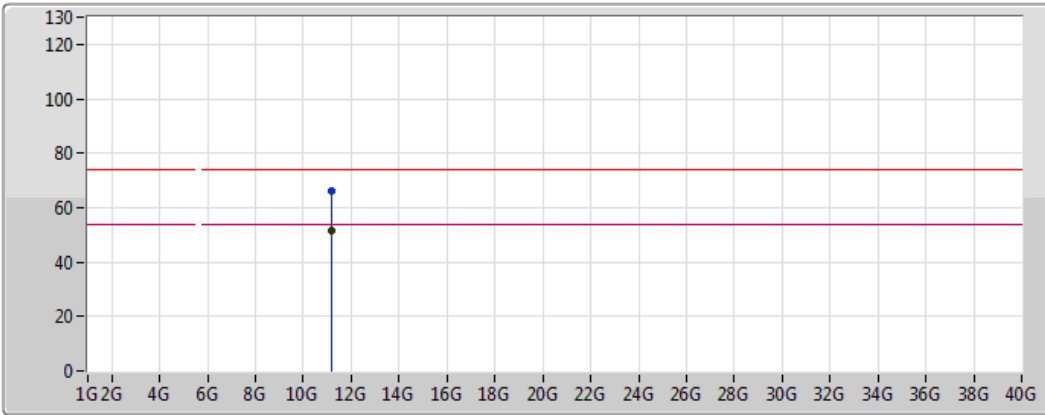


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15832G	52.56	54.00	-1.44	13.81	3	Vertical	41	2.50	-	38.74	40.18	8.26	34.63
PK	11.15512G	66.23	74.00	-7.77	13.82	3	Vertical	41	2.50	-	52.42	40.18	8.26	34.63

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

09/01/2018

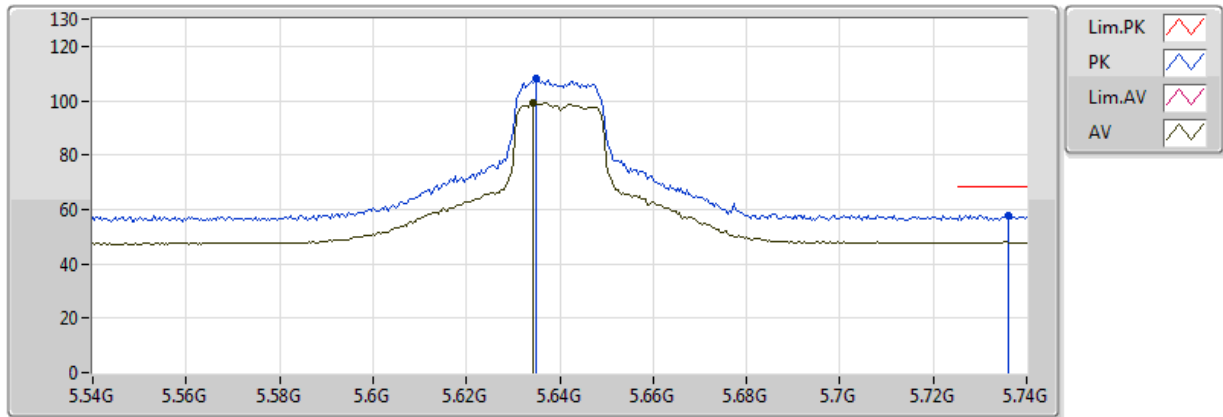


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15696G	51.82	54.00	-2.18	13.82	3	Horizontal	27	2.41	-	38.00	40.18	8.26	34.63
PK	11.15704G	65.92	74.00	-8.08	13.82	3	Horizontal	27	2.41	-	52.11	40.18	8.26	34.63

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

09/01/2018

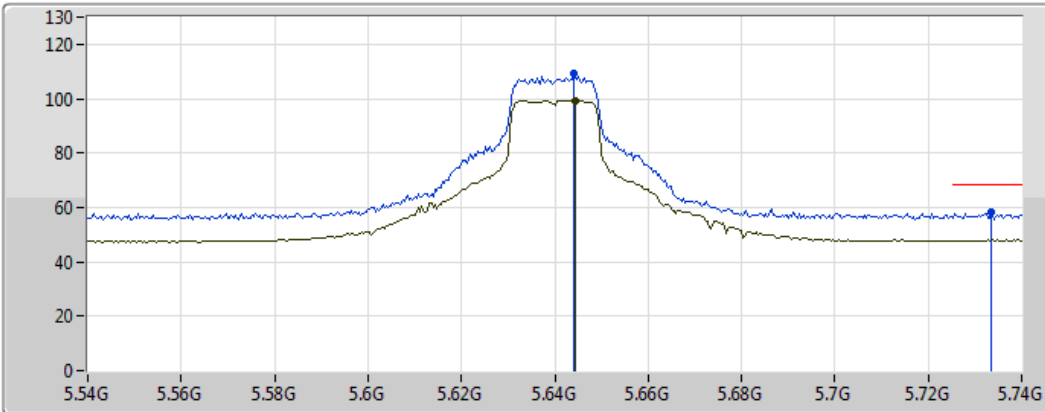


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6344G	99.17	Inf	-Inf	5.60	3	Vertical	83	1.28	-	93.57	32.06	8.72	35.18
PK	5.6348G	108.12	Inf	-Inf	5.60	3	Vertical	83	1.28	-	102.52	32.06	8.72	35.18
PK	5.736G	57.77	68.20	-10.43	5.86	3	Vertical	83	1.28	-	51.91	32.18	8.86	35.18

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

09/01/2018

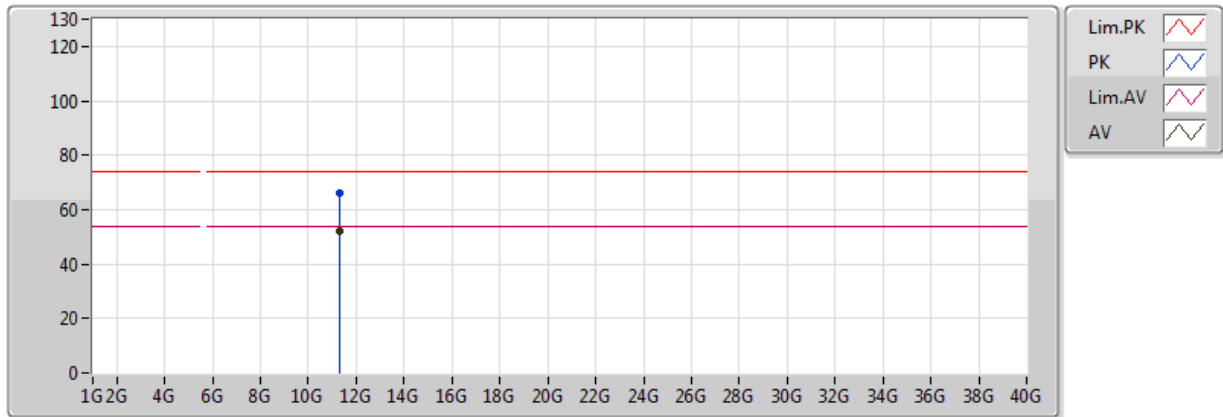


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6444G	99.46	Inf	-Inf	5.63	3	Horizontal	152	1.66	-	93.84	32.07	8.73	35.18
PK	5.644G	109.07	Inf	-Inf	5.62	3	Horizontal	152	1.66	-	103.44	32.07	8.73	35.18
PK	5.7336G	58.01	68.20	-10.19	5.85	3	Horizontal	152	1.66	-	52.15	32.18	8.86	35.18

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

09/01/2018

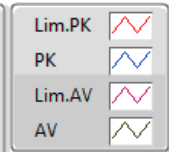
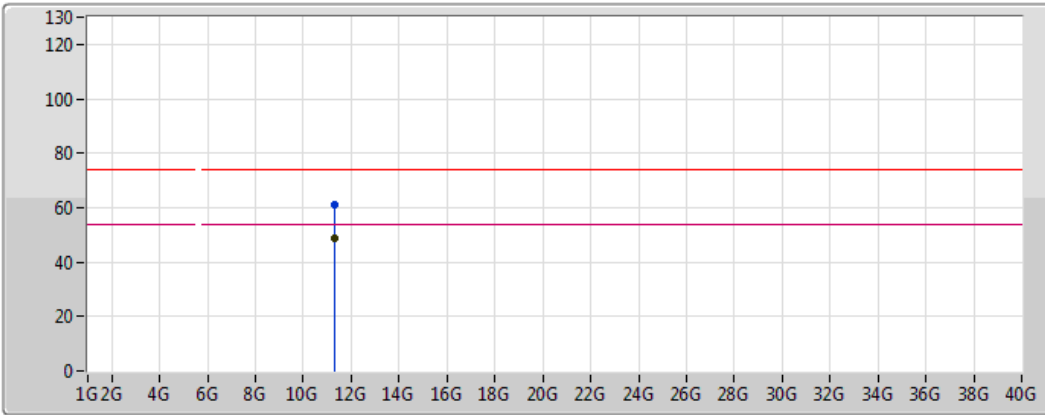


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.28048G	52.22	54.00	-1.78	13.65	3	Vertical	29	2.83	-	38.57	40.01	8.30	34.65
PK	11.28608G	65.88	74.00	-8.12	13.64	3	Vertical	29	2.83	-	52.24	40.00	8.30	34.66

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

09/01/2018

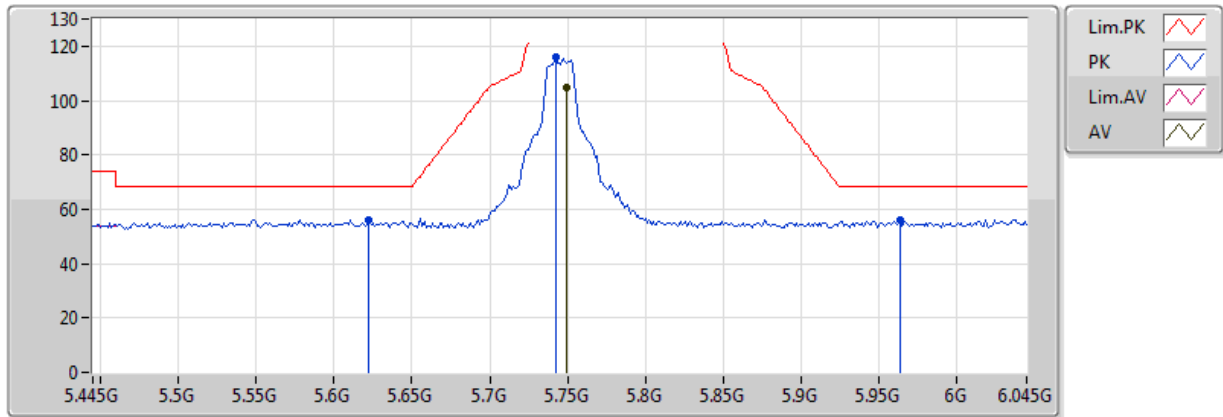


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.2804G	48.51	54.00	-5.49	13.65	3	Horizontal	33	1.52	-	34.86	40.01	8.30	34.65
PK	11.27952G	61.01	74.00	-12.99	13.65	3	Horizontal	33	1.52	-	47.36	40.01	8.30	34.65

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

09/01/2018

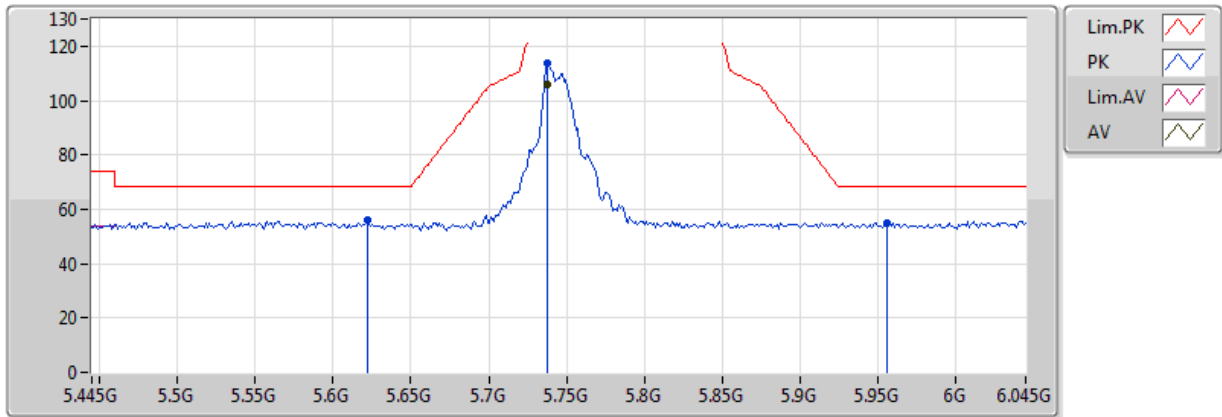


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7498G	105.03	Inf	-Inf	3.44	3	Vertical	38	1.50	-	101.59	32.20	5.85	34.61
PK	5.6226G	55.92	68.20	-12.28	3.18	3	Vertical	38	1.50	-	52.75	32.00	5.76	34.58
PK	5.7426G	116.27	Inf	-Inf	3.42	3	Vertical	38	1.50	-	112.85	32.19	5.84	34.61
PK	5.9634G	55.86	68.20	-12.34	3.88	3	Vertical	38	1.50	-	51.98	32.54	6.00	34.67

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

09/01/2018

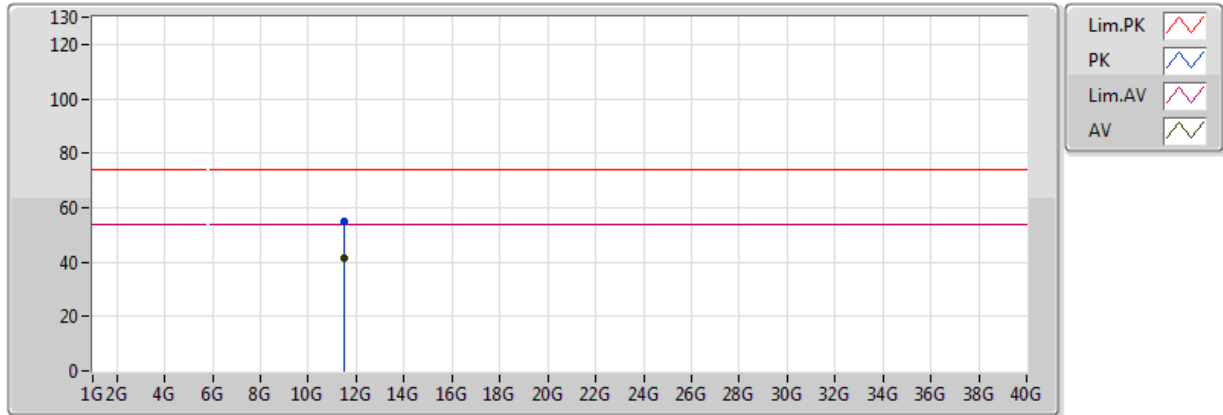


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7378G	105.93	Inf	-Inf	3.41	3	Horizontal	14	1.56	-	102.52	32.18	5.84	34.61
PK	5.6226G	55.79	68.20	-12.41	3.18	3	Horizontal	14	1.56	-	52.62	32.00	5.76	34.58
PK	5.7378G	113.81	Inf	-Inf	3.41	3	Horizontal	14	1.56	-	110.40	32.18	5.84	34.61
PK	5.9562G	55.15	68.20	-13.05	3.86	3	Horizontal	14	1.56	-	51.28	32.53	6.00	34.67

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

10/01/2018

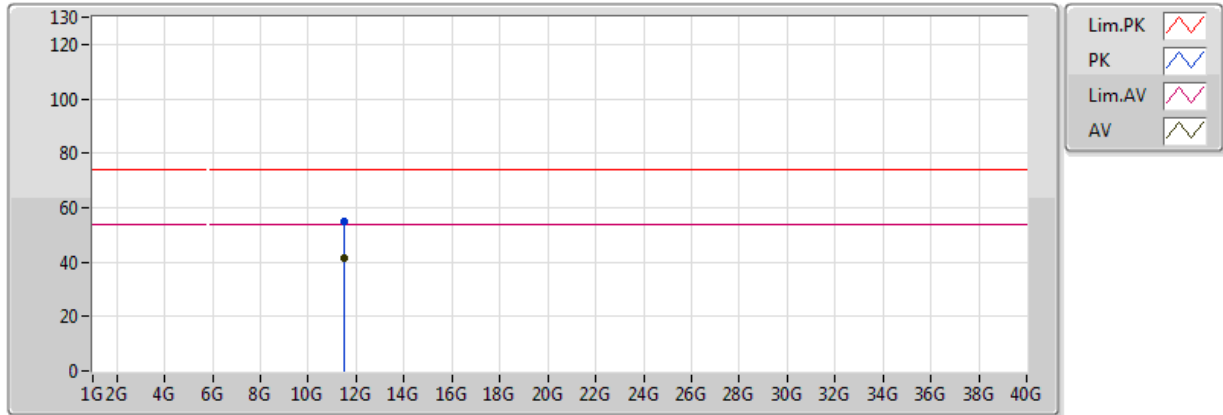


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.47064G	41.46	54.00	-12.54	13.39	3	Vertical	77	1.50	-	28.07	39.74	8.35	34.70
PK	11.47896G	54.83	74.00	-19.17	13.38	3	Vertical	77	1.50	-	41.45	39.73	8.35	34.70

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

10/01/2018

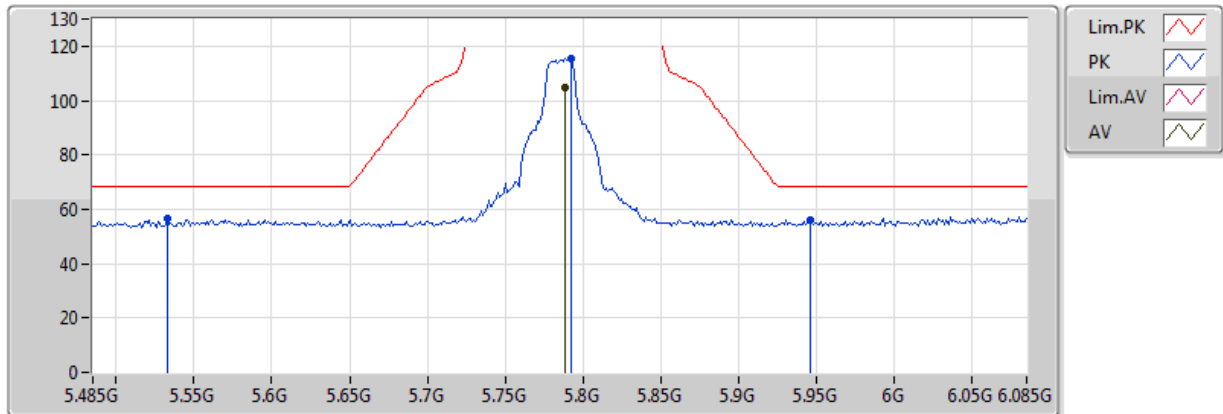


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.48776G	41.34	54.00	-12.66	13.37	3	Horizontal	0	1.00	-	27.97	39.72	8.35	34.70
PK	11.4804G	55.06	74.00	-18.94	13.38	3	Horizontal	0	1.00	-	41.68	39.73	8.35	34.70

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

09/01/2018

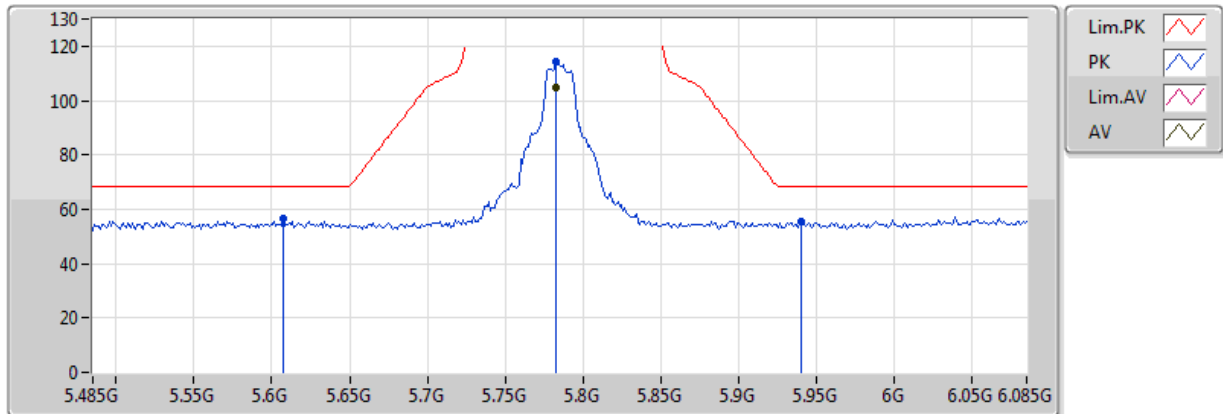


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7886G	104.65	Inf	-Inf	3.52	3	Vertical	34	1.61	-	101.13	32.26	5.88	34.62
PK	5.533G	56.39	68.20	-11.81	3.00	3	Vertical	34	1.61	-	53.40	31.85	5.69	34.55
PK	5.7922G	115.60	Inf	-Inf	3.53	3	Vertical	34	1.61	-	112.07	32.27	5.88	34.62
PK	5.9458G	55.88	68.20	-12.32	3.84	3	Vertical	34	1.61	-	52.03	32.51	5.99	34.66

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

09/01/2018

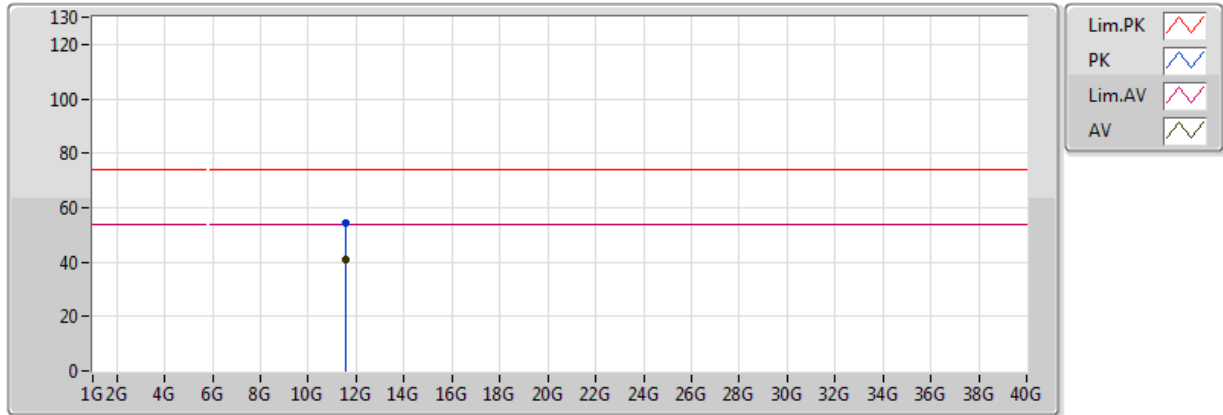


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7826G	104.89	Inf	-Inf	3.51	3	Horizontal	9	1.56	-	101.38	32.25	5.88	34.62
PK	5.6074G	56.78	68.20	-11.42	3.14	3	Horizontal	9	1.56	-	53.63	31.97	5.75	34.57
PK	5.7826G	114.25	Inf	-Inf	3.51	3	Horizontal	9	1.56	-	110.73	32.25	5.88	34.62
PK	5.9398G	55.32	68.20	-12.88	3.83	3	Horizontal	9	1.56	-	51.50	32.50	5.99	34.66

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

10/01/2018

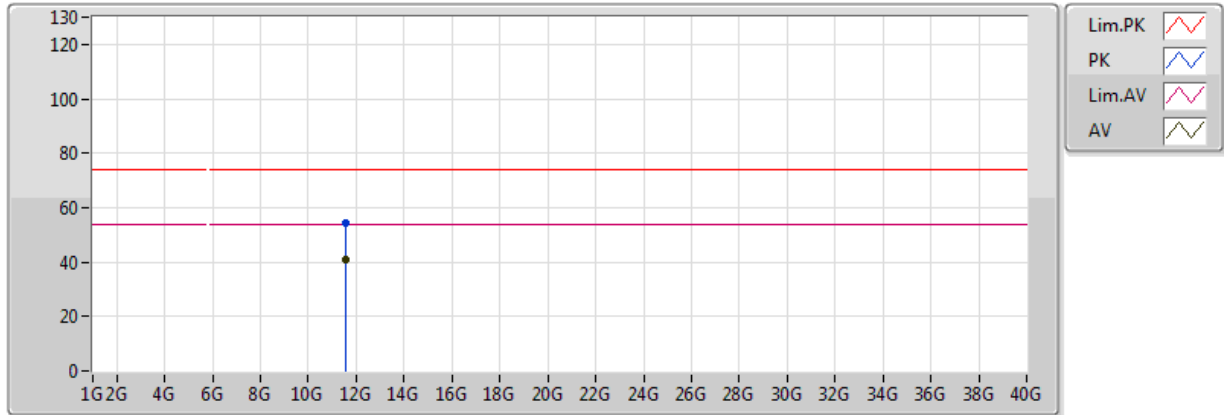


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.56888G	40.92	54.00	-13.08	13.26	3	Vertical	12	2.34	-	27.66	39.60	8.37	34.72
PK	11.56632G	54.21	74.00	-19.79	13.26	3	Vertical	12	2.34	-	40.95	39.61	8.37	34.72

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

10/01/2018

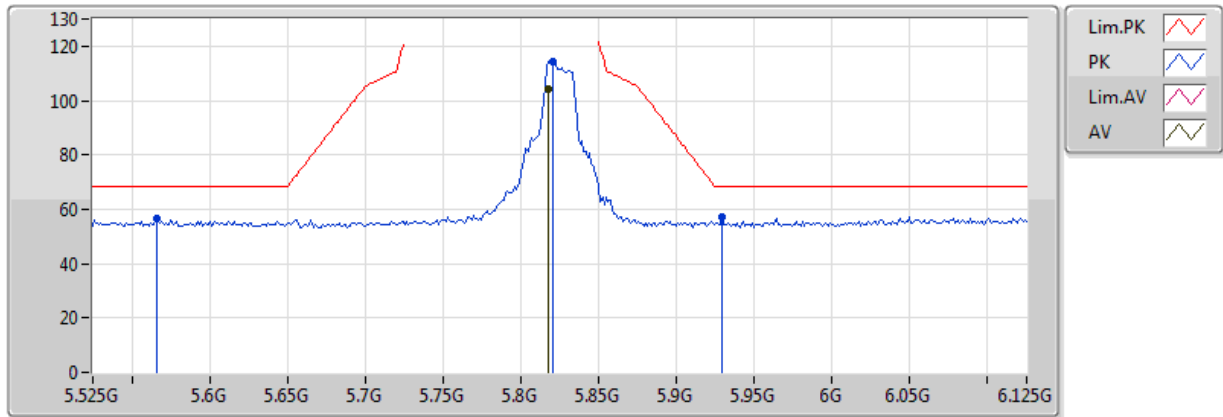


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57216G	40.93	54.00	-13.07	13.25	3	Horizontal	8	1.59	-	27.68	39.60	8.37	34.72
PK	11.57G	54.54	74.00	-19.46	13.25	3	Horizontal	8	1.59	-	41.29	39.60	8.37	34.72

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

09/01/2018

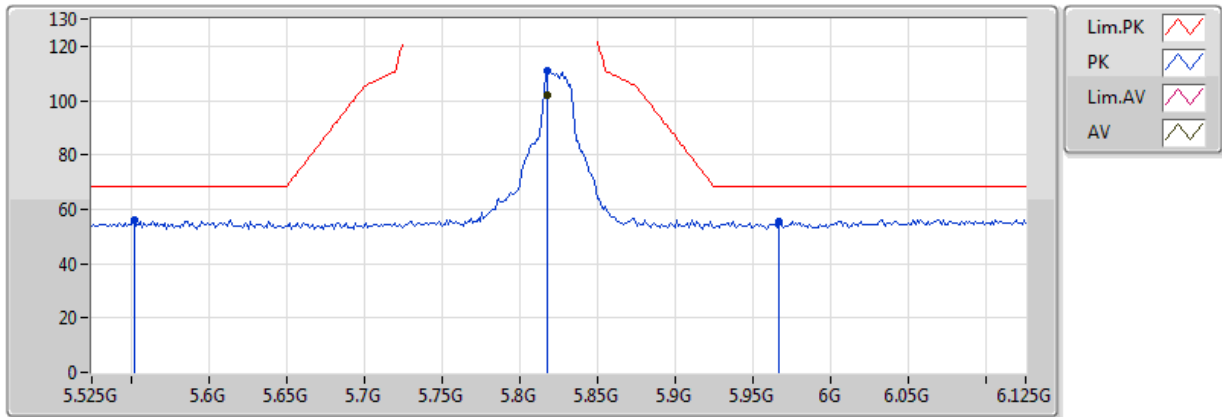


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8178G	104.47	Inf	-Inf	3.59	3	Vertical	35	1.66	-	100.88	32.31	5.90	34.63
PK	5.5658G	56.74	68.20	-11.46	3.06	3	Vertical	35	1.66	-	53.68	31.91	5.72	34.56
PK	5.8202G	114.48	Inf	-Inf	3.59	3	Vertical	35	1.66	-	110.89	32.31	5.90	34.63
PK	5.9294G	56.94	68.20	-11.26	3.81	3	Vertical	35	1.66	-	53.13	32.49	5.98	34.66

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

09/01/2018

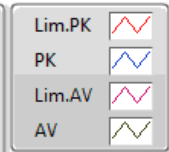
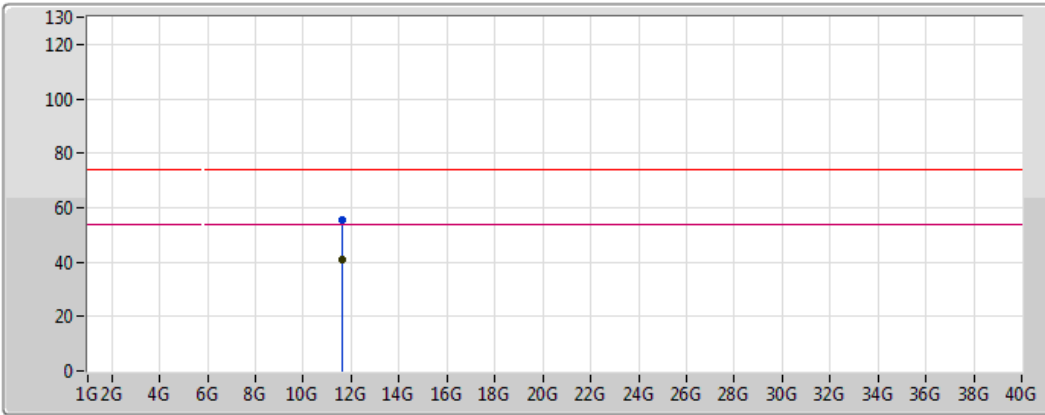


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8178G	102.09	Inf	-Inf	3.59	3	Horizontal	358	1.75	-	98.51	32.31	5.90	34.63
PK	5.5526G	56.17	68.20	-12.03	3.04	3	Horizontal	358	1.75	-	53.13	31.88	5.71	34.56
PK	5.8178G	111.10	Inf	-Inf	3.59	3	Horizontal	358	1.75	-	107.52	32.31	5.90	34.63
PK	5.9666G	55.73	68.20	-12.47	3.88	3	Horizontal	358	1.75	-	51.84	32.55	6.01	34.67

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

10/01/2018

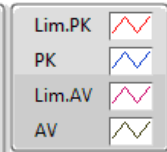
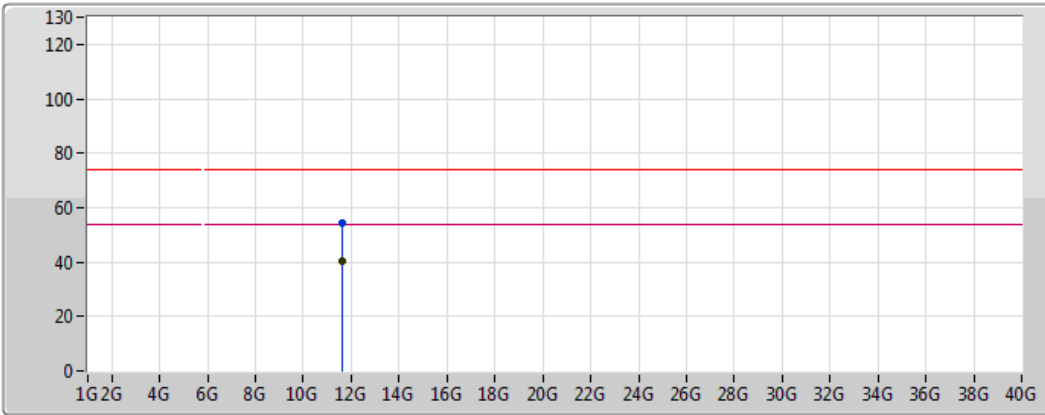


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.64936G	40.69	54.00	-13.31	13.15	3	Vertical	355	2.48	-	27.54	39.49	8.40	34.74
PK	11.64616G	55.51	74.00	-18.49	13.15	3	Vertical	355	2.48	-	42.36	39.50	8.39	34.74

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

10/01/2018

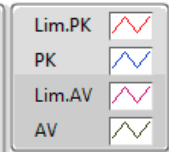
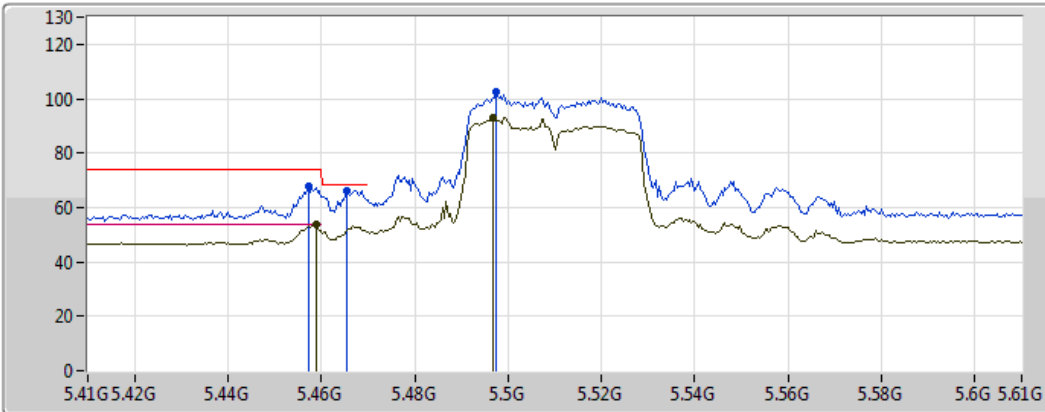


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65328G	40.57	54.00	-13.43	13.14	3	Horizontal	354	1.50	-	27.42	39.49	8.40	34.74
PK	11.64208G	54.29	74.00	-19.71	13.16	3	Horizontal	354	1.50	-	41.13	39.50	8.39	34.74

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

09/01/2018

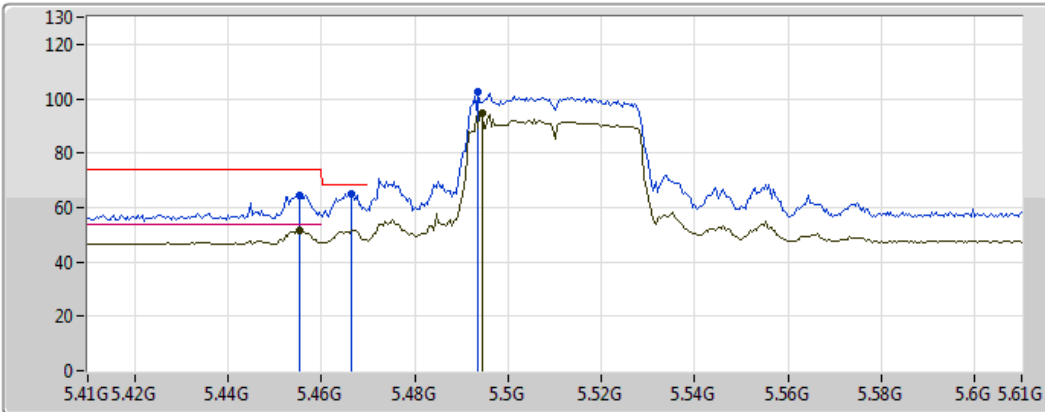


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4588G	53.57	54.00	-0.43	5.21	3	Vertical	359	1.50	-	48.37	31.87	8.51	35.17
AV	5.4968G	93.13	Inf	-Inf	5.26	3	Vertical	359	1.50	-	87.88	31.90	8.53	35.17
PK	5.4572G	68.02	74.00	-5.98	5.20	3	Vertical	359	1.50	-	62.81	31.87	8.51	35.17
PK	5.4656G	66.24	68.20	-1.96	5.22	3	Vertical	359	1.50	-	61.03	31.87	8.52	35.17
PK	5.4976G	102.28	Inf	-Inf	5.26	3	Vertical	359	1.50	-	97.02	31.90	8.53	35.17

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

09/01/2018



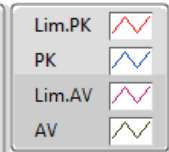
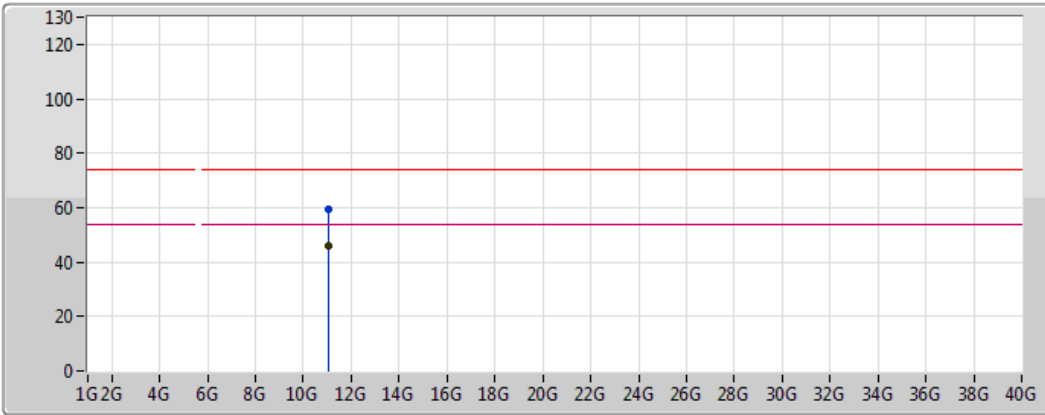
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4552G	51.79	54.00	-2.21	5.20	3	Horizontal	3	1.50	-	46.59	31.86	8.51	35.17
AV	5.4944G	94.57	Inf	-Inf	5.25	3	Horizontal	3	1.50	-	89.32	31.90	8.53	35.17
PK	5.4552G	64.50	74.00	-9.50	5.20	3	Horizontal	3	1.50	-	59.30	31.86	8.51	35.17
PK	5.4664G	65.04	68.20	-3.16	5.22	3	Horizontal	3	1.50	-	59.82	31.87	8.52	35.17
PK	5.4936G	102.73	Inf	-Inf	5.25	3	Horizontal	3	1.50	-	97.48	31.89	8.53	35.17

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

09/01/2018

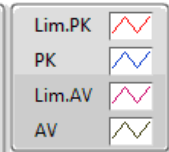
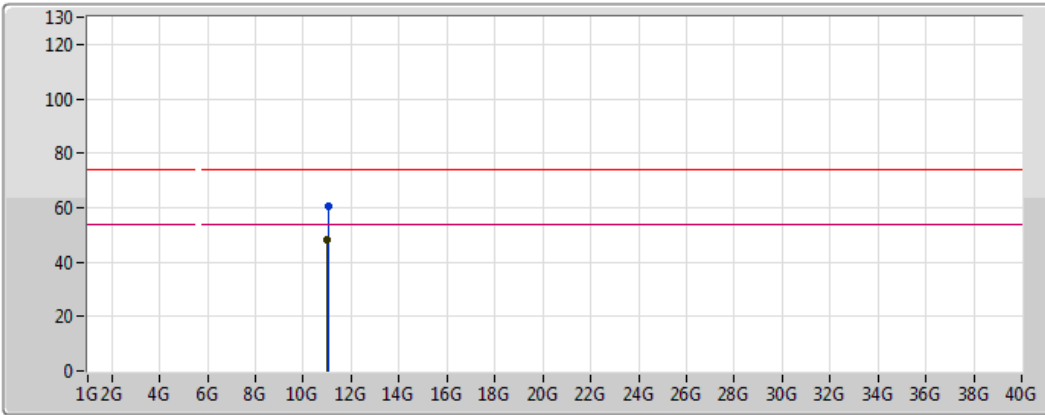


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.03008G	45.84	54.00	-8.16	13.99	3	Vertical	25	1.50	-	31.85	40.36	8.23	34.60
PK	11.0212G	59.17	74.00	-14.83	14.00	3	Vertical	25	1.50	-	45.17	40.37	8.23	34.59

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

09/01/2018

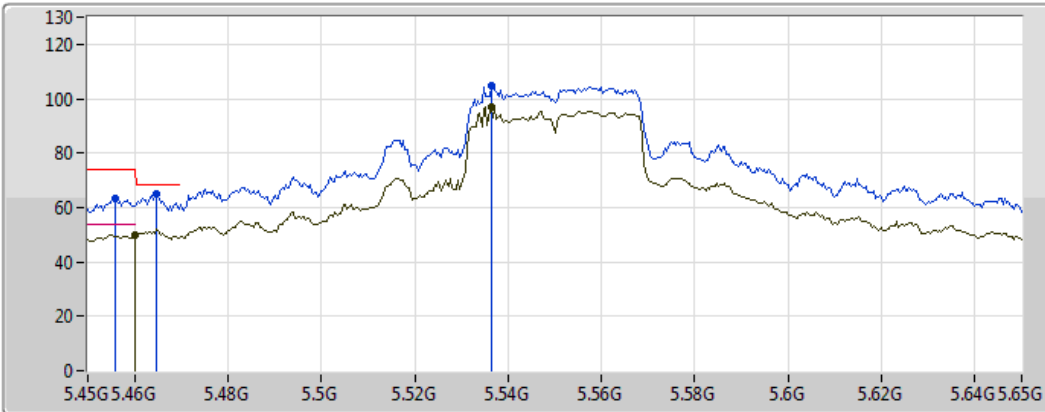


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.0067G	48.33	54.00	-5.67	14.02	3	Horizontal	326	1.57	-	34.31	40.39	8.22	34.59
PK	11.0257G	60.79	74.00	-13.21	14.00	3	Horizontal	326	1.57	-	46.80	40.36	8.23	34.60

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

09/01/2018

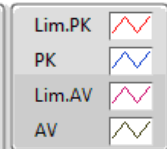
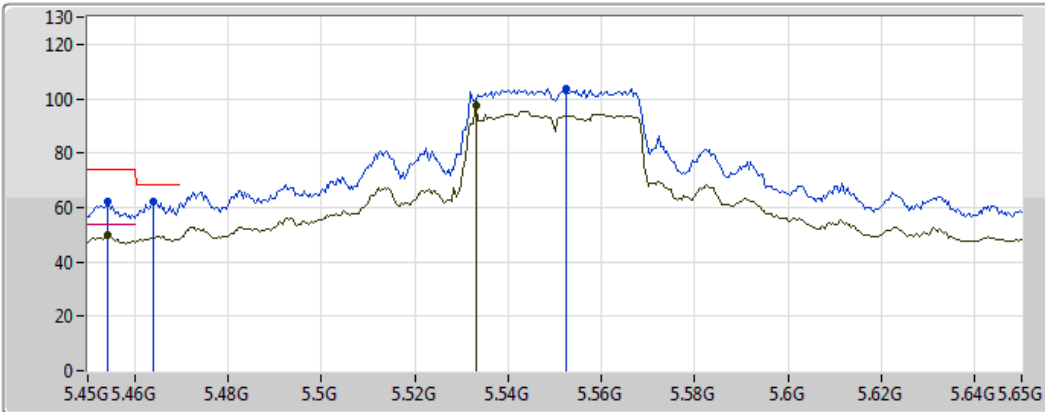


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	50.01	54.00	-3.99	5.21	3	Vertical	335	1.50	-	44.81	31.87	8.51	35.17
AV	5.5364G	96.85	Inf	-Inf	5.35	3	Vertical	335	1.50	-	91.50	31.94	8.58	35.17
PK	5.456G	63.58	74.00	-10.42	5.20	3	Vertical	335	1.50	-	58.38	31.86	8.51	35.17
PK	5.4648G	64.80	68.20	-3.40	5.21	3	Vertical	335	1.50	-	59.58	31.87	8.52	35.17
PK	5.5364G	104.77	Inf	-Inf	5.35	3	Vertical	335	1.50	-	99.41	31.94	8.58	35.17

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

09/01/2018

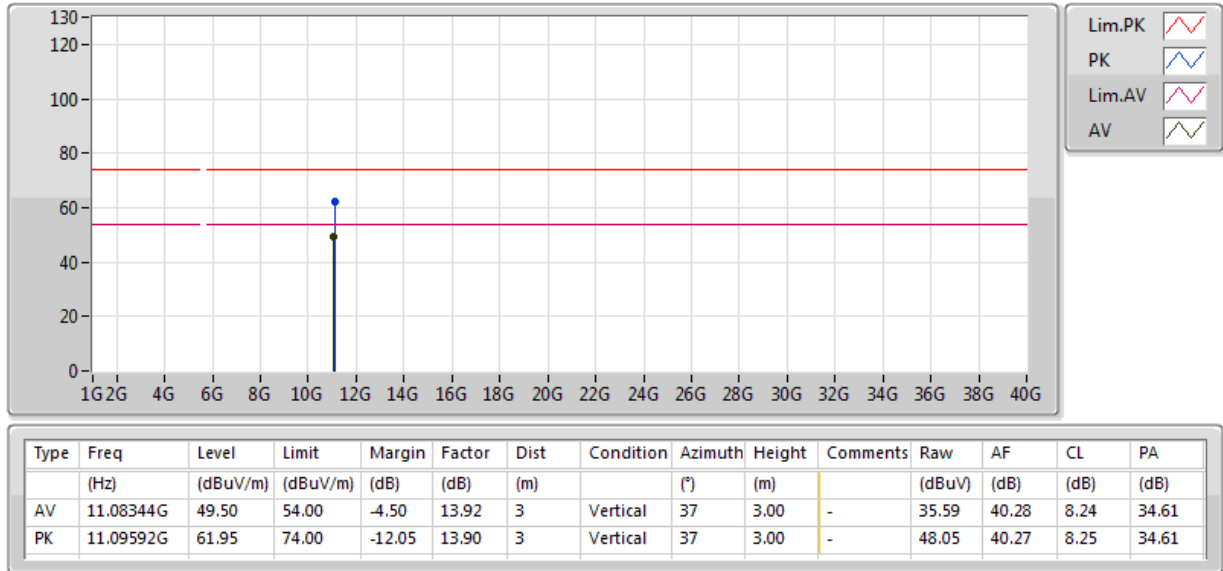


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4544G	49.76	54.00	-4.24	5.20	3	Horizontal	3	1.50	-	44.56	31.86	8.51	35.17
AV	5.5332G	97.59	Inf	-Inf	5.34	3	Horizontal	3	1.50	-	92.25	31.94	8.58	35.17
PK	5.4544G	62.11	74.00	-11.89	5.20	3	Horizontal	3	1.50	-	56.91	31.86	8.51	35.17
PK	5.464G	62.12	68.20	-6.08	5.21	3	Horizontal	3	1.50	-	56.90	31.87	8.52	35.17
PK	5.5524G	103.61	Inf	-Inf	5.39	3	Horizontal	3	1.50	-	98.22	31.96	8.60	35.18

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

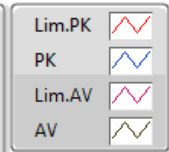
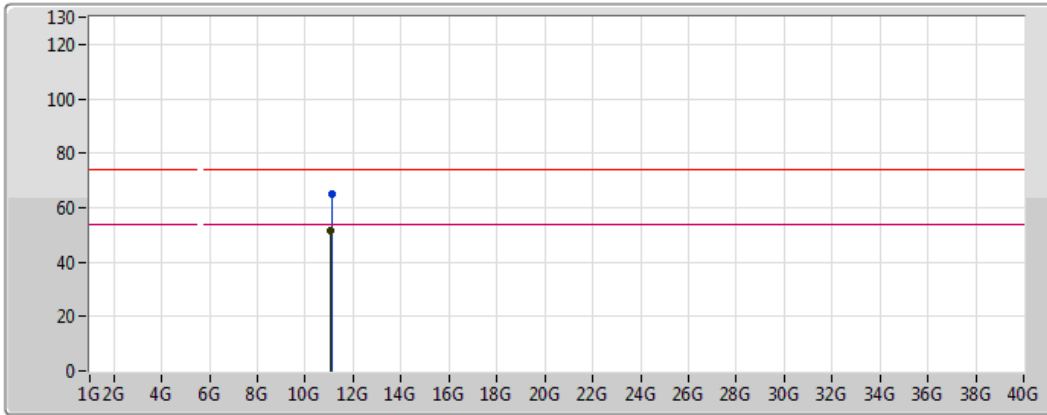
09/01/2018



802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

09/01/2018

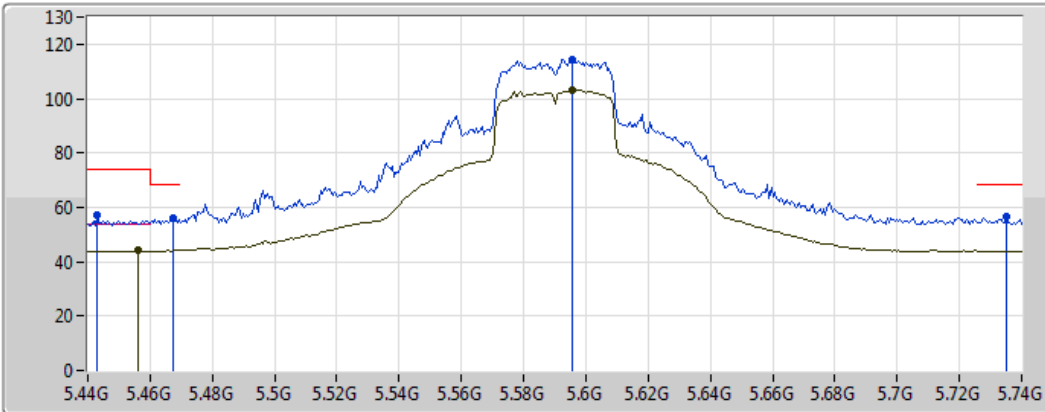


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.08128G	51.50	54.00	-2.50	13.92	3	Horizontal	30	2.54	-	37.58	40.29	8.24	34.61
PK	11.0896G	65.23	74.00	-8.77	13.91	3	Horizontal	30	2.54	-	51.32	40.27	8.24	34.61

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

10/01/2018

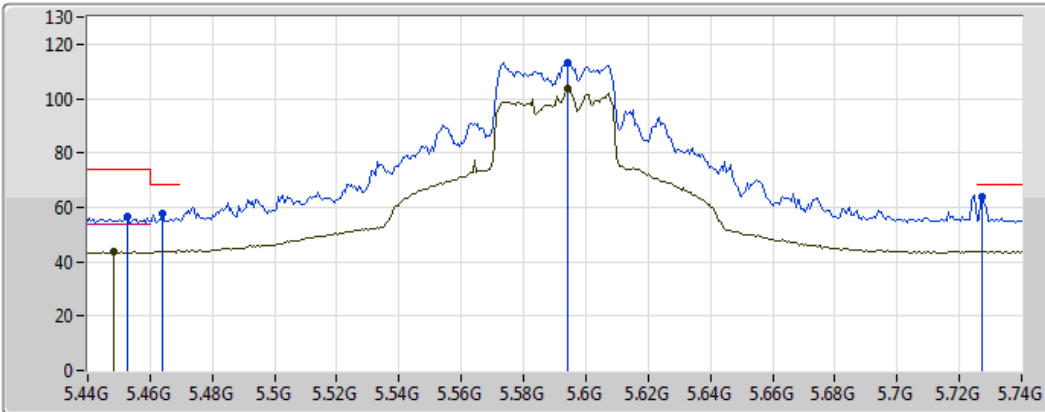


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4562G	44.05	54.00	-9.95	2.91	3	Vertical	19	1.54	-	41.14	31.78	5.67	34.54
AV	5.5954G	103.20	Inf	-Inf	3.12	3	Vertical	19	1.54	-	100.08	31.95	5.74	34.57
PK	5.443G	57.17	74.00	-16.83	2.90	3	Vertical	19	1.54	-	54.27	31.78	5.66	34.54
PK	5.4676G	55.82	68.20	-12.38	2.91	3	Vertical	19	1.54	-	52.90	31.79	5.67	34.54
PK	5.5954G	114.26	Inf	-Inf	3.12	3	Vertical	19	1.54	-	111.14	31.95	5.74	34.57
PK	5.7352G	56.48	68.20	-11.72	3.41	3	Vertical	19	1.54	-	53.08	32.18	5.84	34.61

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

10/01/2018

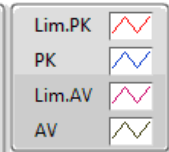
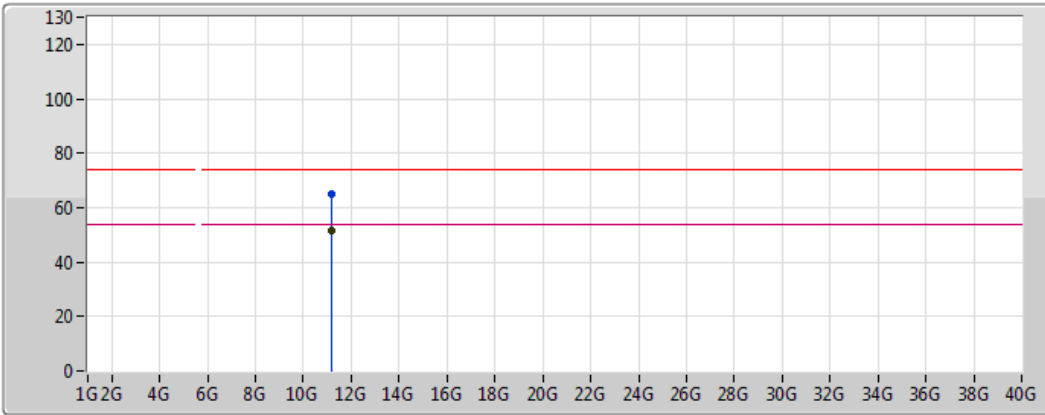


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4484G	43.65	54.00	-10.35	2.90	3	Horizontal	358	1.52	-	40.74	31.78	5.66	34.54
AV	5.5942G	103.86	Inf	-Inf	3.12	3	Horizontal	358	1.52	-	100.74	31.95	5.74	34.57
PK	5.4526G	56.79	74.00	-17.21	2.91	3	Horizontal	358	1.52	-	53.88	31.78	5.67	34.54
PK	5.464G	57.59	68.20	-10.61	2.91	3	Horizontal	358	1.52	-	54.68	31.79	5.67	34.54
PK	5.5942G	113.41	Inf	-Inf	3.12	3	Horizontal	358	1.52	-	110.29	31.95	5.74	34.57
PK	5.7274G	64.08	68.20	-4.12	3.39	3	Horizontal	358	1.52	-	60.69	32.16	5.83	34.61

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

10/01/2018

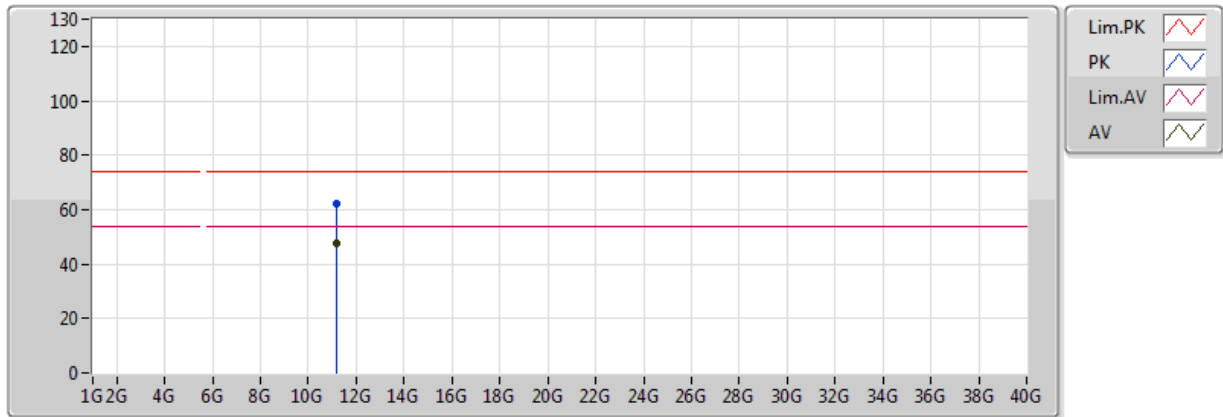


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.16384G	51.66	54.00	-2.34	13.69	3	Vertical	58	1.36	-	37.97	40.05	8.26	34.63
PK	11.16232G	64.77	74.00	-9.23	13.69	3	Vertical	58	1.36	-	51.08	40.06	8.26	34.63

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

10/01/2018

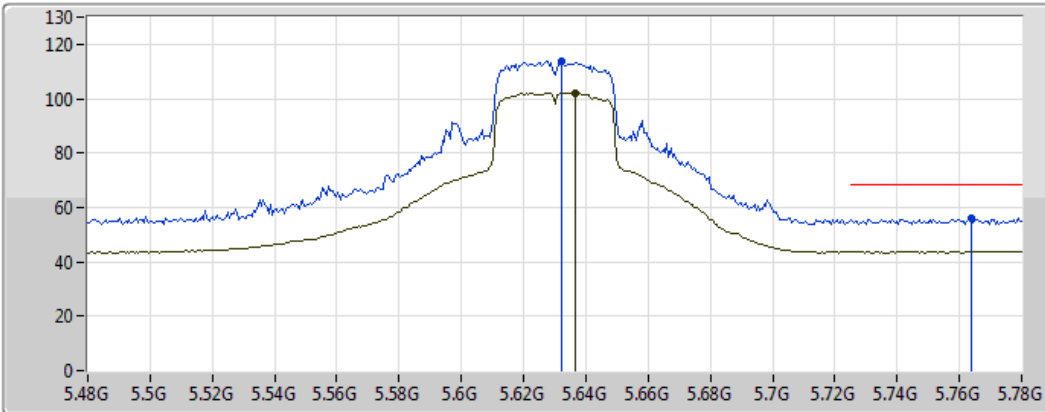


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.1612G	47.57	54.00	-6.43	13.69	3	Horizontal	327	1.49	-	33.88	40.06	8.26	34.63
PK	11.17576G	62.41	74.00	-11.59	13.67	3	Horizontal	327	1.49	-	48.74	40.04	8.27	34.63

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

09/01/2018

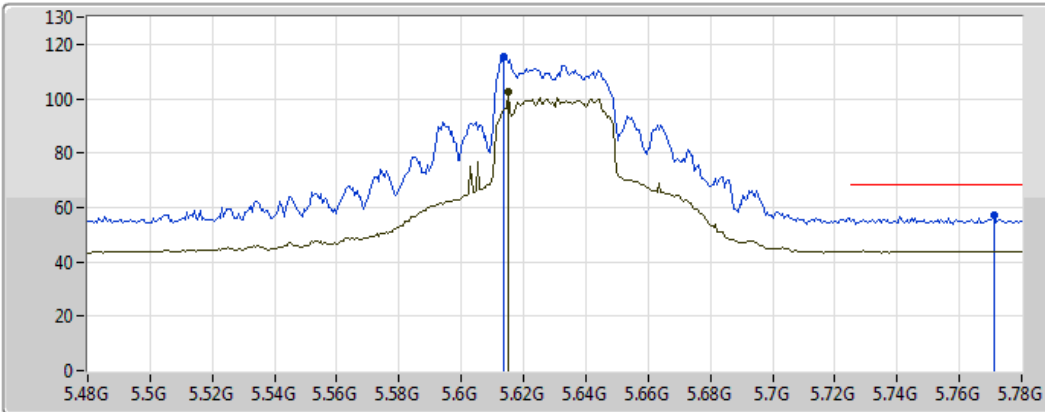


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6366G	102.23	Inf	-Inf	3.20	3	Vertical	22	1.49	-	99.02	32.02	5.77	34.58
PK	5.6324G	113.97	Inf	-Inf	3.19	3	Vertical	22	1.49	-	110.77	32.01	5.76	34.58
PK	5.7638G	56.23	68.20	-11.97	3.47	3	Vertical	22	1.49	-	52.76	32.22	5.86	34.61

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

09/01/2018



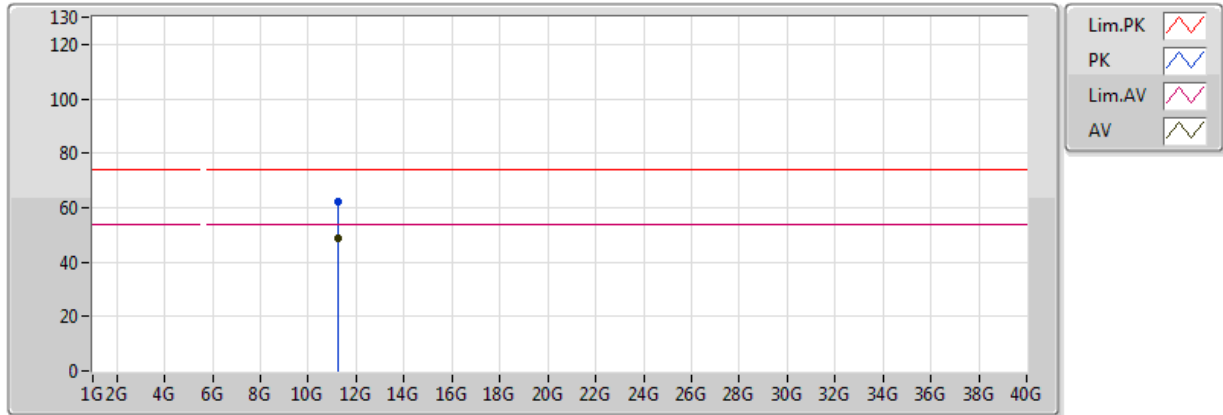
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AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.615G	102.44	Inf	-Inf	3.16	3	Horizontal	14	1.49	-	99.28	31.98	5.75	34.57
PK	5.6138G	115.60	Inf	-Inf	3.16	3	Horizontal	14	1.49	-	112.44	31.98	5.75	34.57
PK	5.771G	57.05	68.20	-11.15	3.49	3	Horizontal	14	1.49	-	53.56	32.23	5.87	34.61

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

09/01/2018

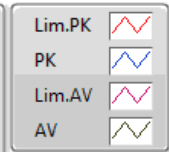
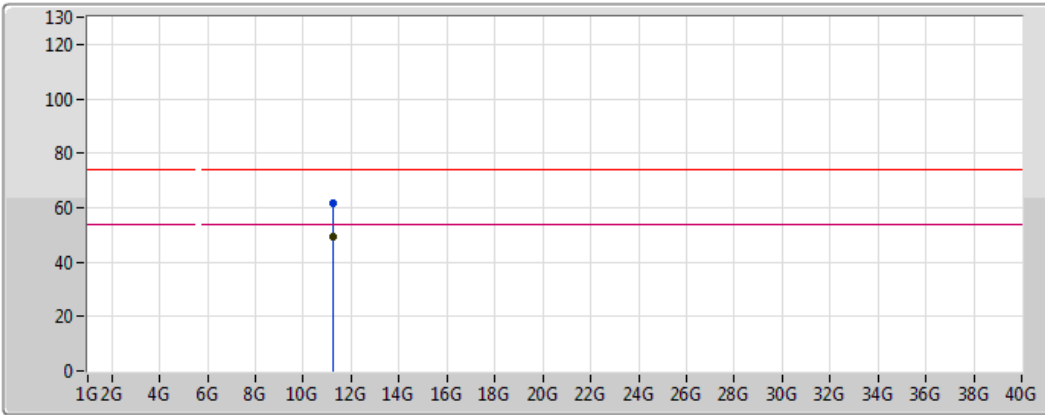


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.24136G	48.83	54.00	-5.17	13.70	3	Vertical	30	2.90	-	35.13	40.06	8.29	34.65
PK	11.26288G	62.06	74.00	-11.94	13.67	3	Vertical	30	2.90	-	48.39	40.03	8.29	34.65

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

09/01/2018

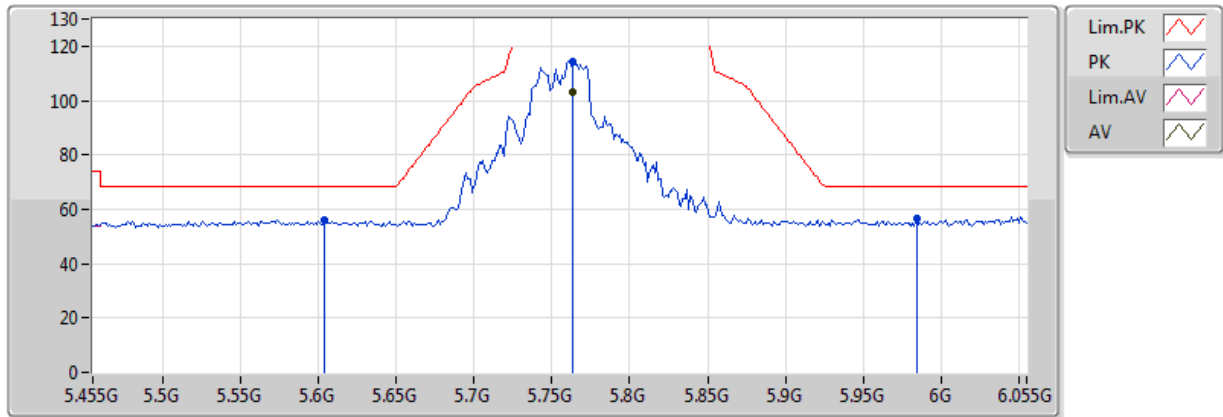


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.24184G	49.17	54.00	-4.83	13.70	3	Horizontal	37	1.99	-	35.47	40.06	8.29	34.65
PK	11.2408G	61.45	74.00	-12.55	13.70	3	Horizontal	37	1.99	-	47.75	40.06	8.29	34.65

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

09/01/2018

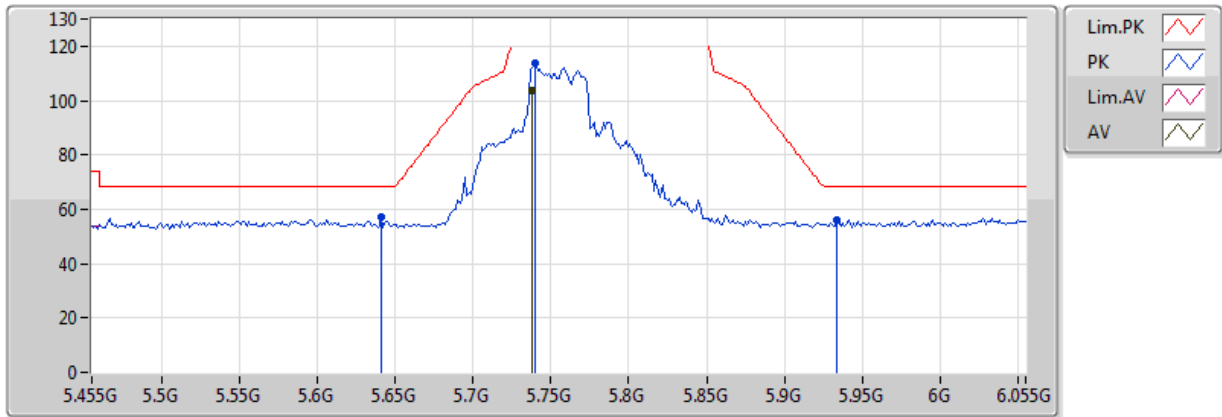


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7634G	103.27	Inf	-Inf	3.47	3	Vertical	3	1.71	-	99.80	32.22	5.86	34.61
PK	5.6038G	56.12	68.20	-12.08	3.14	3	Vertical	3	1.71	-	52.98	31.97	5.74	34.57
PK	5.7634G	114.35	Inf	-Inf	3.47	3	Vertical	3	1.71	-	110.88	32.22	5.86	34.61
PK	5.9842G	56.32	68.20	-11.88	3.92	3	Vertical	3	1.71	-	52.40	32.57	6.02	34.68

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

09/01/2018

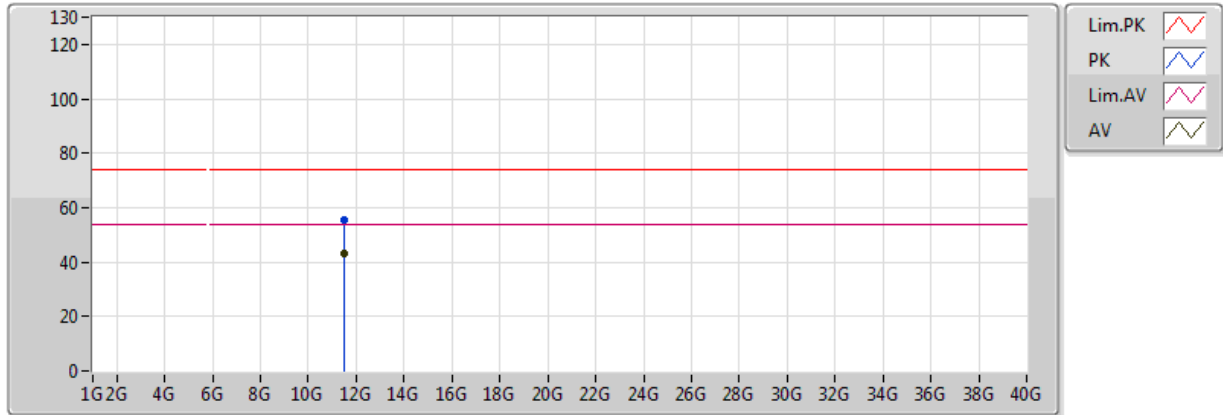


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7382G	103.61	Inf	-Inf	3.41	3	Horizontal	15	1.29	-	100.19	32.18	5.84	34.61
PK	5.641G	56.96	68.20	-11.24	3.21	3	Horizontal	15	1.29	-	53.74	32.03	5.77	34.58
PK	5.7394G	113.95	Inf	-Inf	3.42	3	Horizontal	15	1.29	-	110.53	32.18	5.84	34.61
PK	5.9338G	55.97	68.20	-12.23	3.82	3	Horizontal	15	1.29	-	52.15	32.49	5.98	34.66

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

10/01/2018

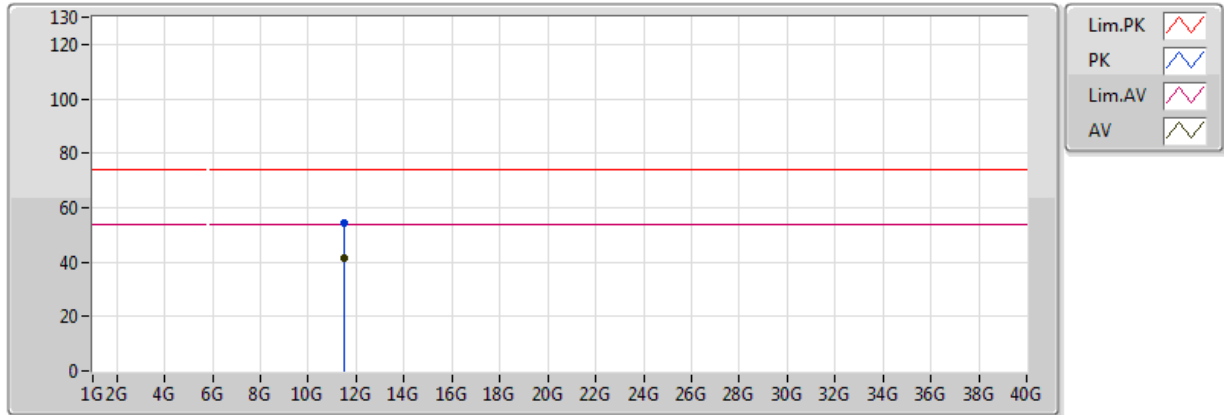


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.49344G	43.10	54.00	-10.90	13.36	3	Vertical	42	1.01	-	29.74	39.71	8.35	34.70
PK	11.51624G	55.22	74.00	-18.78	13.33	3	Vertical	42	1.01	-	41.89	39.68	8.36	34.71

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

10/01/2018

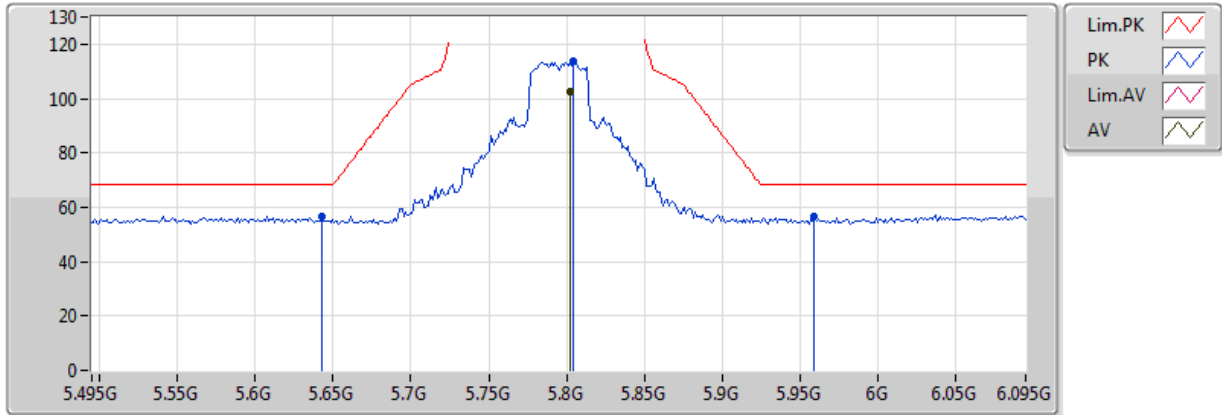


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.4964G	41.65	54.00	-12.35	13.35	3	Horizontal	315	2.90	-	28.30	39.71	8.35	34.70
PK	11.502G	54.63	74.00	-19.37	13.35	3	Horizontal	315	2.90	-	41.28	39.70	8.36	34.71

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

09/01/2018

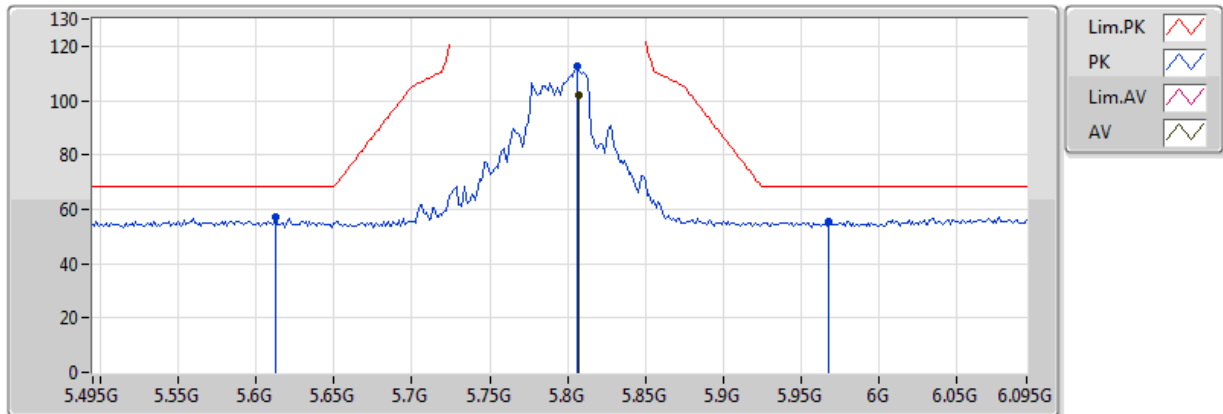


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8022G	102.42	Inf	-Inf	3.55	3	Vertical	34	1.66	-	98.86	32.28	5.89	34.62
PK	5.6426G	56.60	68.20	-11.60	3.22	3	Vertical	34	1.66	-	53.38	32.03	5.77	34.58
PK	5.8046G	113.91	Inf	-Inf	3.56	3	Vertical	34	1.66	-	110.35	32.29	5.89	34.62
PK	5.9594G	56.41	68.20	-11.79	3.87	3	Vertical	34	1.66	-	52.54	32.54	6.00	34.67

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

09/01/2018

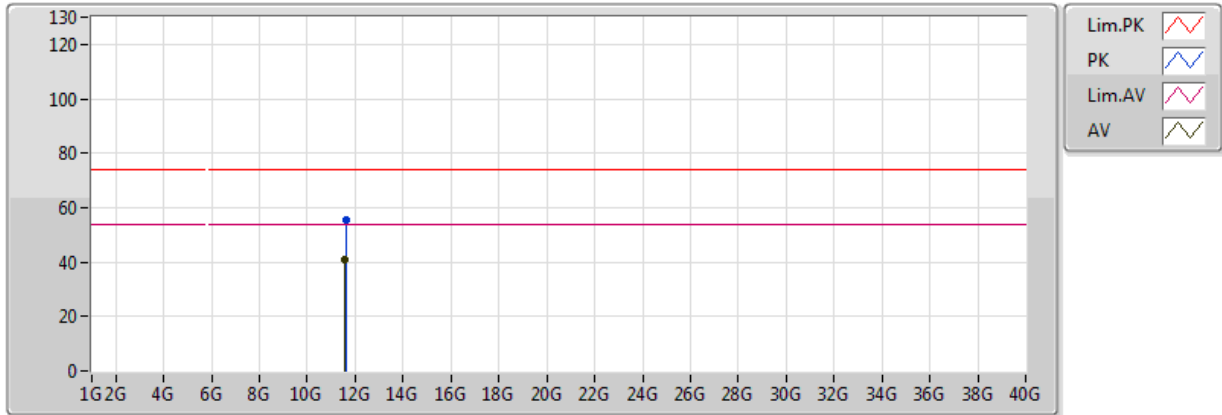


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.807G	101.92	Inf	-Inf	3.56	3	Horizontal	356	1.50	-	98.36	32.29	5.89	34.62
PK	5.6126G	57.43	68.20	-10.77	3.16	3	Horizontal	356	1.50	-	54.28	31.98	5.75	34.57
PK	5.8058G	112.76	Inf	-Inf	3.56	3	Horizontal	356	1.50	-	109.20	32.29	5.89	34.62
PK	5.9678G	55.69	68.20	-12.51	3.89	3	Horizontal	356	1.50	-	51.81	32.55	6.01	34.67

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

10/01/2018

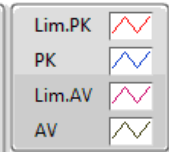
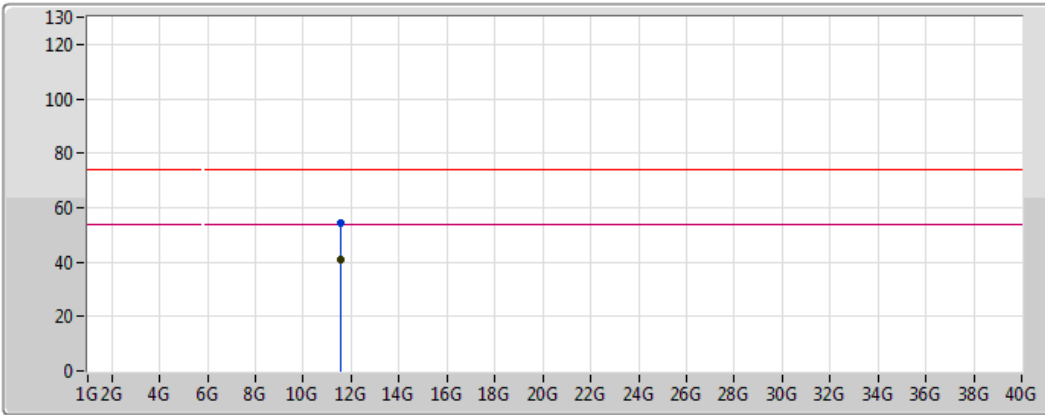


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57576G	41.18	54.00	-12.82	13.25	3	Vertical	329	2.23	-	27.93	39.59	8.38	34.72
PK	11.59944G	55.67	74.00	-18.33	13.21	3	Vertical	329	2.23	-	42.46	39.56	8.38	34.73

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

10/01/2018

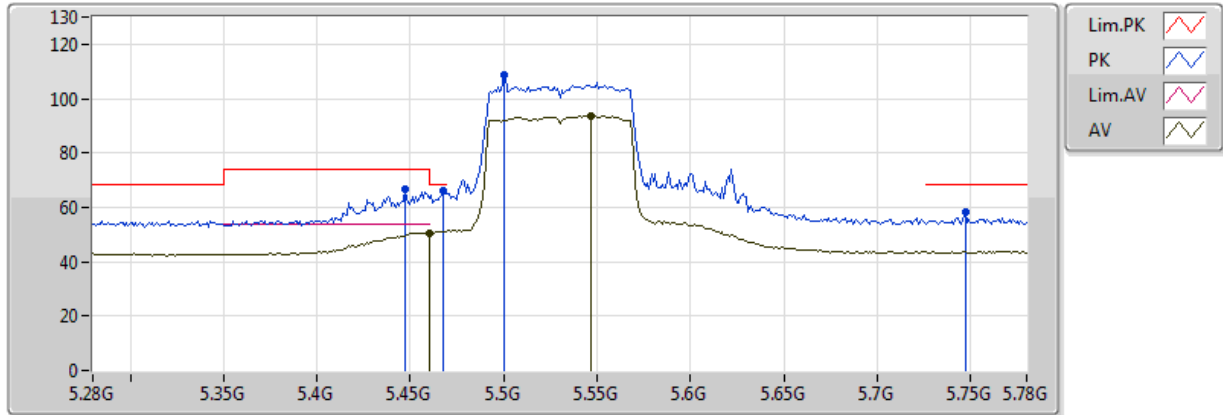


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.58536G	41.08	54.00	-12.92	13.23	3	Horizontal	273	2.16	-	27.85	39.58	8.38	34.72
PK	11.5912G	54.10	74.00	-19.90	13.23	3	Horizontal	273	2.16	-	40.87	39.57	8.38	34.73

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

09/01/2018

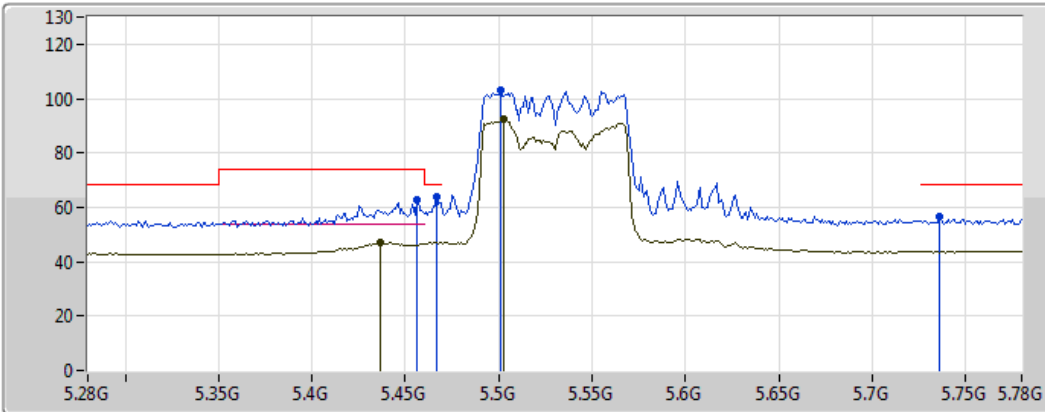


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	50.71	54.00	-3.29	2.91	3	Vertical	351	1.60	-	47.80	31.78	5.67	34.54
AV	5.547G	93.69	Inf	-Inf	3.02	3	Vertical	351	1.60	-	90.67	31.88	5.70	34.55
PK	5.447G	66.52	74.00	-7.48	2.90	3	Vertical	351	1.60	-	63.62	31.78	5.66	34.54
PK	5.468G	65.99	68.20	-2.21	2.91	3	Vertical	351	1.60	-	63.08	31.79	5.67	34.54
PK	5.5G	108.88	Inf	-Inf	2.93	3	Vertical	351	1.60	-	105.95	31.80	5.67	34.54
PK	5.747G	58.33	68.20	-9.87	3.43	3	Vertical	351	1.60	-	54.90	32.20	5.85	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

09/01/2018

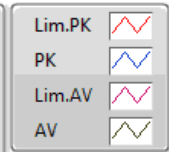
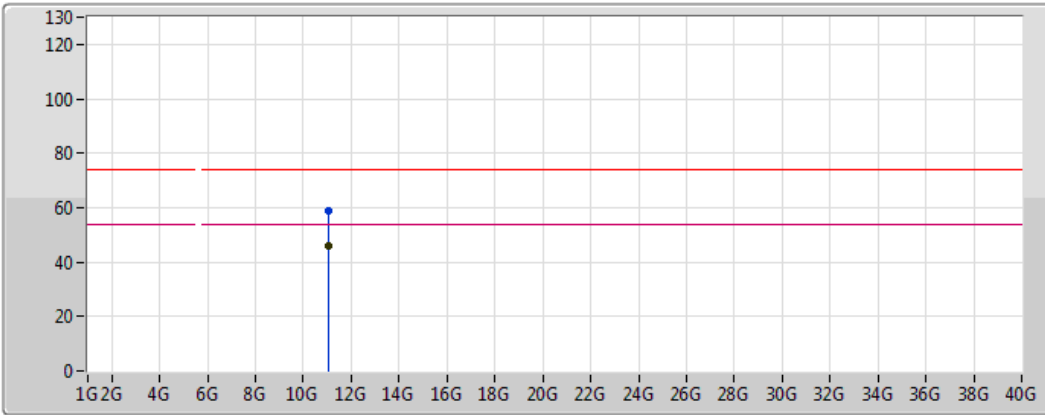


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.437G	47.10	54.00	-6.90	2.90	3	Horizontal	339	1.46	-	44.20	31.77	5.66	34.54
AV	5.503G	92.50	Inf	-Inf	2.94	3	Horizontal	339	1.46	-	89.57	31.80	5.67	34.54
PK	5.456G	62.96	74.00	-11.04	2.91	3	Horizontal	339	1.46	-	60.05	31.78	5.67	34.54
PK	5.467G	63.97	68.20	-4.23	2.91	3	Horizontal	339	1.46	-	61.06	31.79	5.67	34.54
PK	5.501G	103.24	Inf	-Inf	2.93	3	Horizontal	339	1.46	-	100.31	31.80	5.67	34.54
PK	5.736G	56.62	68.20	-11.58	3.41	3	Horizontal	339	1.46	-	53.21	32.18	5.84	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

09/01/2018

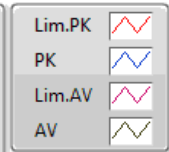
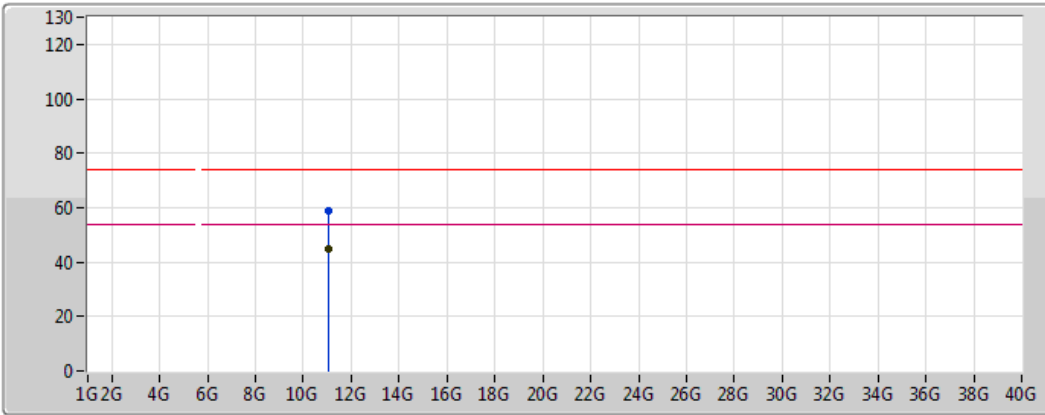


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.05424G	45.72	54.00	-8.28	13.96	3	Vertical	28	2.83	-	31.76	40.32	8.23	34.60
PK	11.0624G	58.84	74.00	-15.16	13.95	3	Vertical	28	2.83	-	44.90	40.31	8.24	34.60

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

09/01/2018

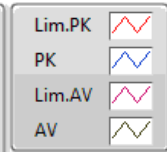
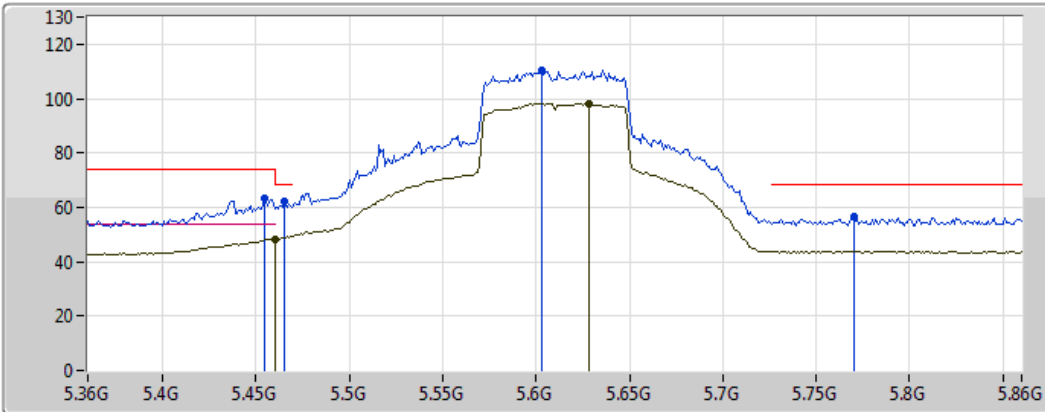


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.05488G	44.75	54.00	-9.25	13.96	3	Horizontal	30	1.50	-	30.79	40.32	8.23	34.60
PK	11.07464G	58.69	74.00	-15.31	13.93	3	Horizontal	30	1.50	-	44.76	40.30	8.24	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

09/01/2018

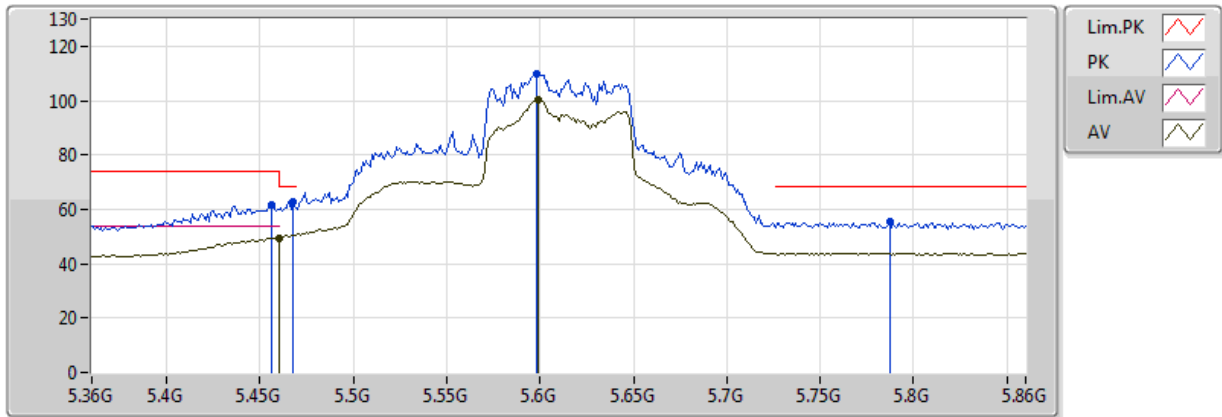


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	48.46	54.00	-5.54	2.91	3	Vertical	19	1.50	-	45.55	31.78	5.67	34.54
AV	5.628G	98.26	Inf	-Inf	3.19	3	Vertical	19	1.50	-	95.07	32.00	5.76	34.58
PK	5.455G	63.10	74.00	-10.90	2.91	3	Vertical	19	1.50	-	60.20	31.78	5.67	34.54
PK	5.465G	61.98	68.20	-6.22	2.91	3	Vertical	19	1.50	-	59.07	31.79	5.67	34.54
PK	5.603G	110.48	Inf	-Inf	3.14	3	Vertical	19	1.50	-	107.34	31.96	5.74	34.57
PK	5.77G	56.46	68.20	-11.74	3.48	3	Vertical	19	1.50	-	52.98	32.23	5.87	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

09/01/2018

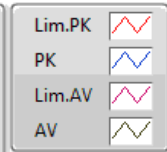
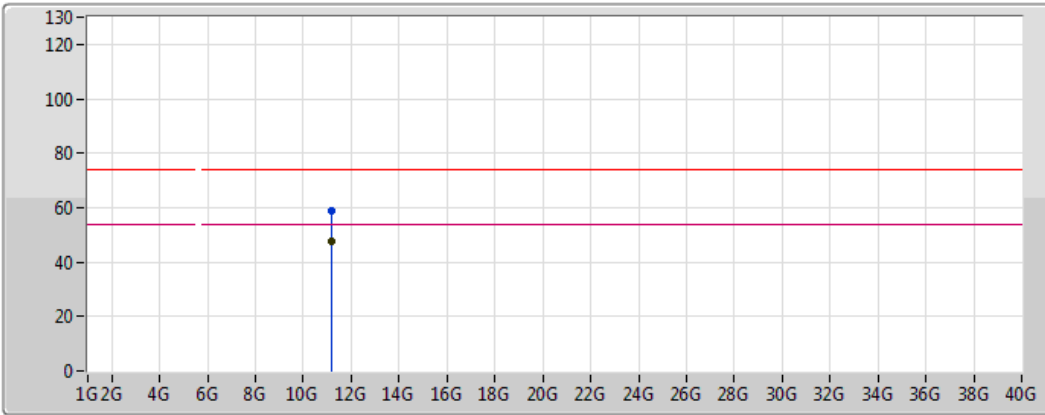


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	49.58	54.00	-4.42	2.91	3	Horizontal	29	1.52	-	46.67	31.78	5.67	34.54
AV	5.599G	100.52	Inf	-Inf	3.13	3	Horizontal	29	1.52	-	97.39	31.96	5.74	34.57
PK	5.456G	61.79	74.00	-12.21	2.91	3	Horizontal	29	1.52	-	58.88	31.78	5.67	34.54
PK	5.468G	62.77	68.20	-5.43	2.91	3	Horizontal	29	1.52	-	59.85	31.79	5.67	34.54
PK	5.598G	109.87	Inf	-Inf	3.13	3	Horizontal	29	1.52	-	106.75	31.96	5.74	34.57
PK	5.787G	55.26	68.20	-12.94	3.52	3	Horizontal	29	1.52	-	51.73	32.26	5.88	34.62

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

09/01/2018

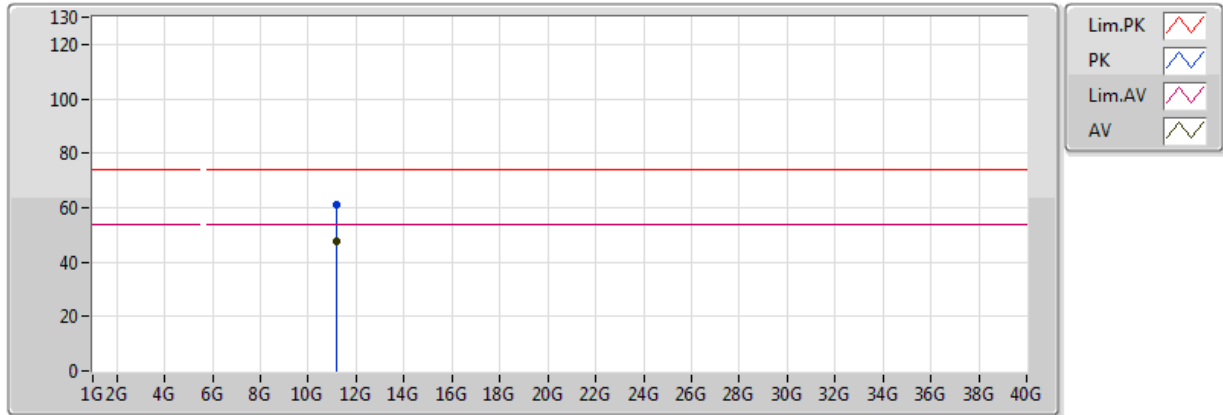


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.20368G	47.68	54.00	-6.32	13.75	3	Vertical	345	2.51	-	33.93	40.11	8.27	34.64
PK	11.2044G	58.97	74.00	-15.03	13.75	3	Vertical	345	2.51	-	45.22	40.11	8.28	34.64

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

09/01/2018

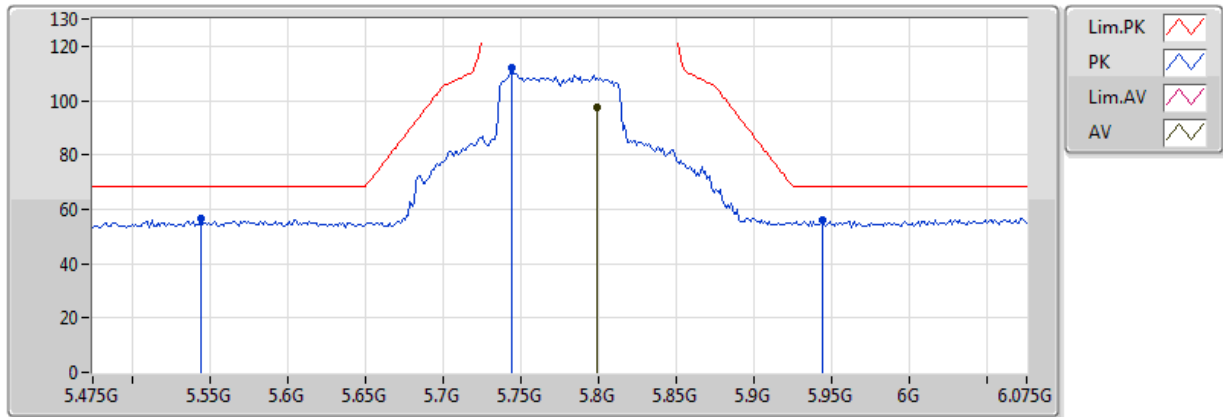


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.20024G	47.54	54.00	-6.46	13.76	3	Horizontal	329	1.94	-	33.78	40.12	8.27	34.64
PK	11.20032G	60.92	74.00	-13.08	13.76	3	Horizontal	329	1.94	-	47.17	40.12	8.27	34.64

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

10/01/2018

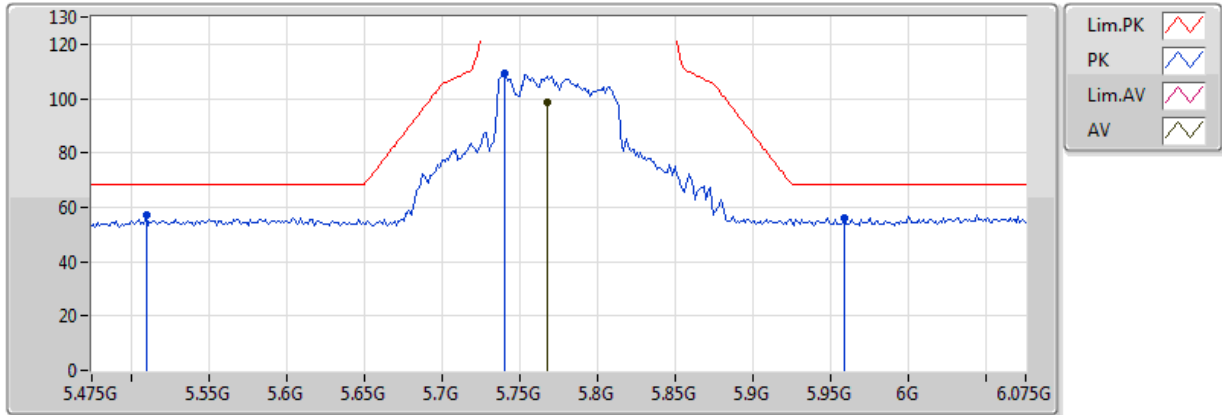


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.799G	97.61	Inf	-Inf	3.55	3	Vertical	31	1.70	-	94.06	32.28	5.89	34.62
PK	5.5446G	56.58	68.20	-11.62	3.02	3	Vertical	31	1.70	-	53.56	31.87	5.70	34.55
PK	5.7438G	111.99	Inf	-Inf	3.43	3	Vertical	31	1.70	-	108.56	32.19	5.85	34.61
PK	5.9442G	55.97	68.20	-12.23	3.84	3	Vertical	31	1.70	-	52.13	32.51	5.99	34.66

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

10/01/2018

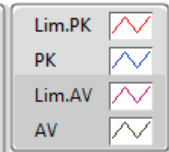
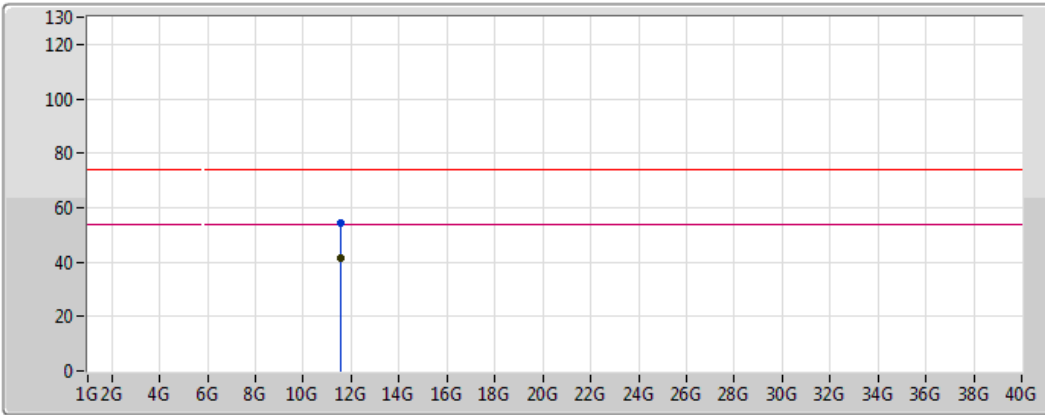


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7678G	98.87	Inf	-Inf	3.48	3	Horizontal	13	1.50	-	95.39	32.23	5.86	34.61
PK	5.5098G	57.32	68.20	-10.88	2.95	3	Horizontal	13	1.50	-	54.37	31.82	5.68	34.54
PK	5.7402G	109.38	Inf	-Inf	3.42	3	Horizontal	13	1.50	-	105.96	32.18	5.84	34.61
PK	5.9586G	56.20	68.20	-12.00	3.87	3	Horizontal	13	1.50	-	52.33	32.53	6.00	34.67

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

10/01/2018

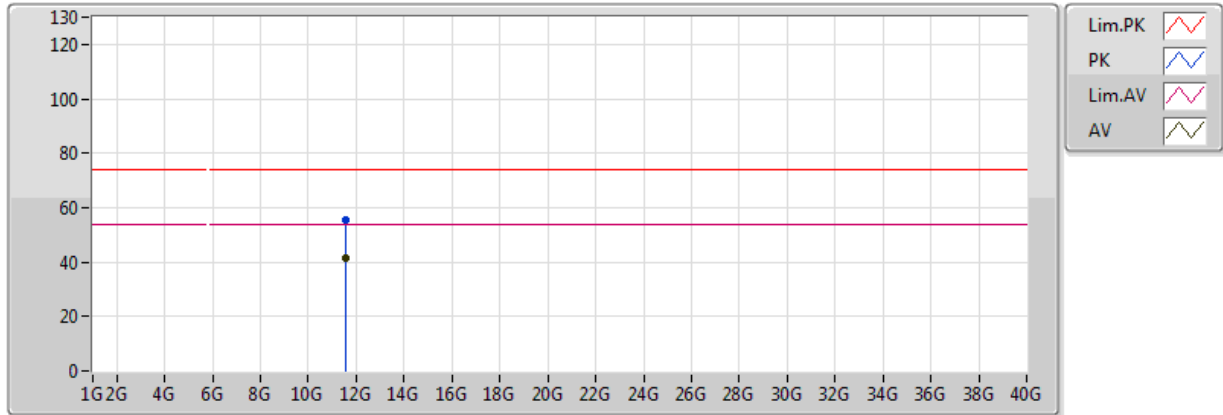


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.5364G	41.57	54.00	-12.43	13.30	3	Vertical	153	1.50	-	28.26	39.65	8.36	34.71
PK	11.5552G	54.54	74.00	-19.46	13.27	3	Vertical	153	1.50	-	41.27	39.62	8.37	34.72

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

10/01/2018

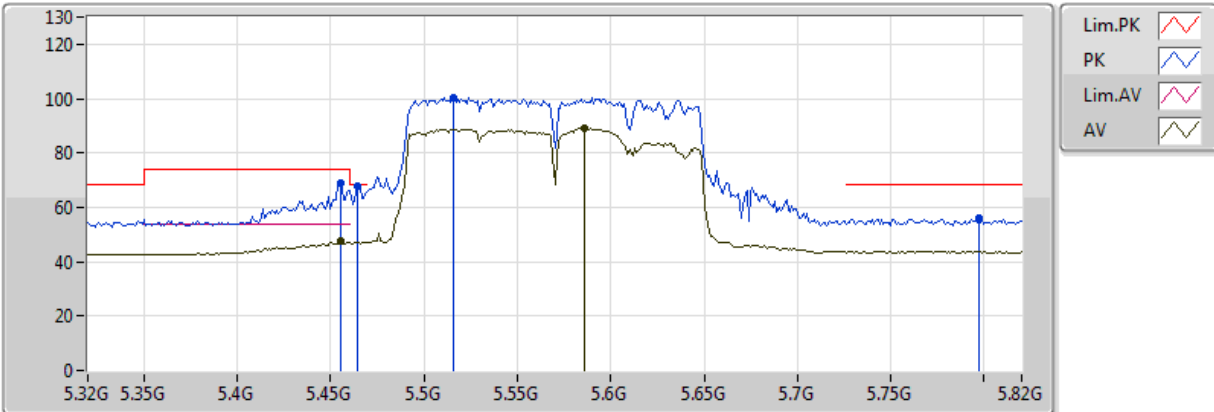


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.53688G	41.48	54.00	-12.52	13.30	3	Horizontal	300	1.50	-	28.18	39.65	8.36	34.71
PK	11.54576G	55.36	74.00	-18.64	13.29	3	Horizontal	300	1.50	-	42.07	39.64	8.37	34.72

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

26/01/2018

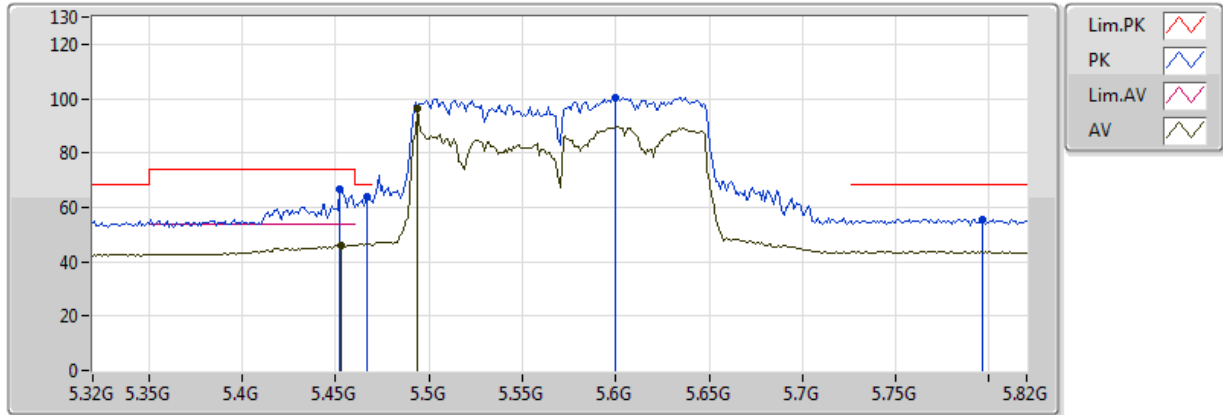


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.455G	47.44	54.00	-6.56	2.91	3	Vertical	357	1.50	-	44.53	31.78	5.67	34.54
AV	5.586G	88.94	Inf	-Inf	3.10	3	Vertical	357	1.50	-	85.84	31.94	5.73	34.57
PK	5.455G	68.84	74.00	-5.16	2.91	3	Vertical	357	1.50	-	65.93	31.78	5.67	34.54
PK	5.464G	67.93	68.20	-0.27	2.91	3	Vertical	357	1.50	-	65.02	31.79	5.67	34.54
PK	5.516G	100.48	Inf	-Inf	2.96	3	Vertical	357	1.50	-	97.52	31.83	5.68	34.54
PK	5.797G	55.83	68.20	-12.37	3.54	3	Vertical	357	1.50	-	52.29	32.28	5.89	34.62

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

26/01/2018

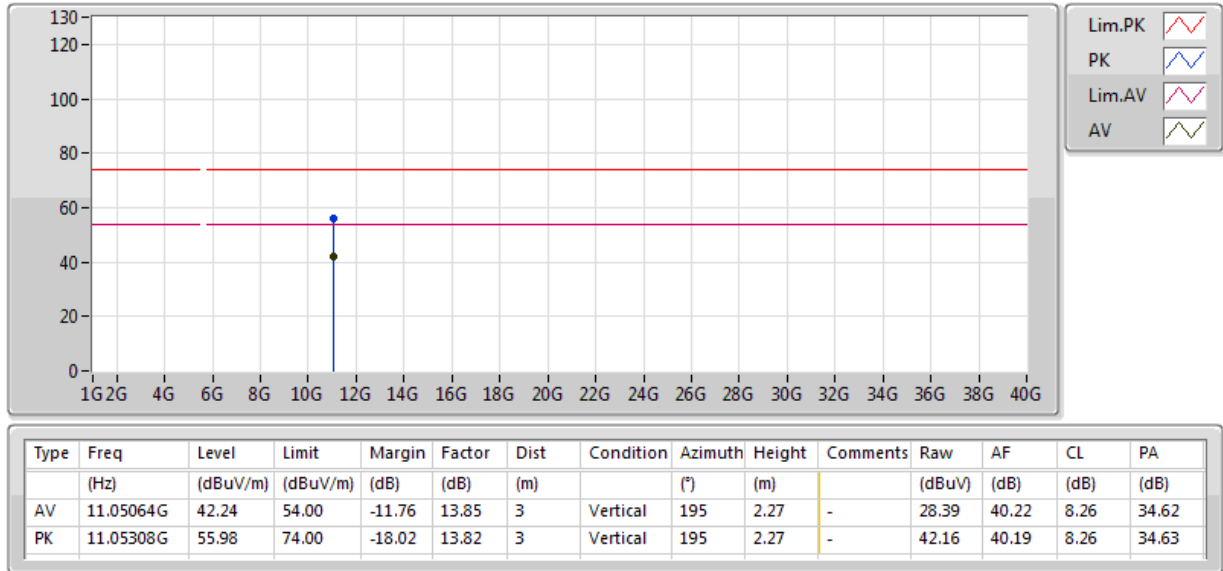


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.453G	46.15	54.00	-7.85	2.91	3	Horizontal	29	1.52	-	43.24	31.78	5.67	34.54
AV	5.494G	96.10	Inf	-Inf	2.93	3	Horizontal	29	1.52	-	93.18	31.80	5.67	34.54
PK	5.452G	66.89	74.00	-7.11	2.91	3	Horizontal	29	1.52	-	63.98	31.78	5.67	34.54
PK	5.467G	63.62	68.20	-4.58	2.91	3	Horizontal	29	1.52	-	60.71	31.79	5.67	34.54
PK	5.6G	100.53	Inf	-Inf	3.13	3	Horizontal	29	1.52	-	97.40	31.96	5.74	34.57
PK	5.796G	55.75	68.20	-12.45	3.54	3	Horizontal	29	1.52	-	52.21	32.27	5.89	34.62

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

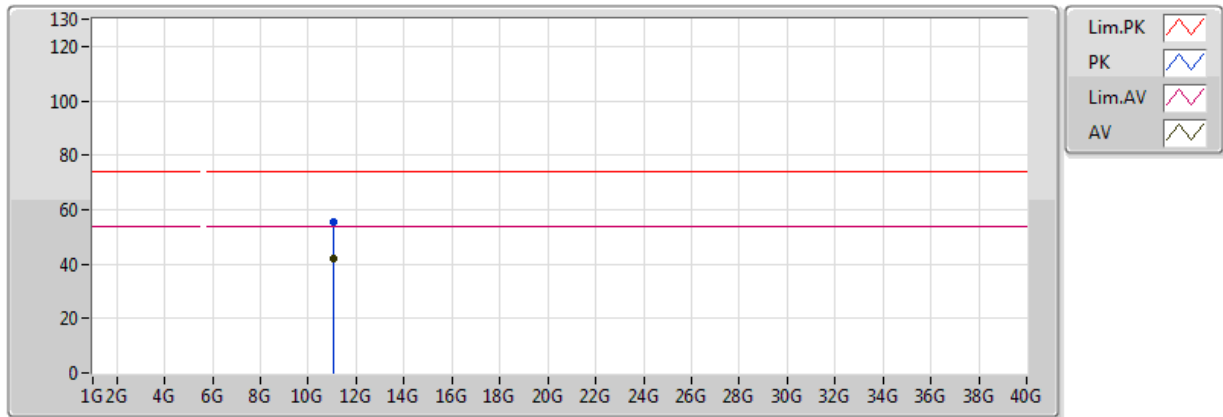
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802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

26/01/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.06738G	41.91	54.00	-12.09	13.94	3	Horizontal	111	1.78	-	27.97	40.31	8.24	34.61
PK	11.05682G	55.33	74.00	-18.67	13.95	3	Horizontal	111	1.78	-	41.38	40.32	8.24	34.60



RSE TX below 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.3

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	Pass	QP	37.76M	39.51	40.00	-0.49	-16.56	3	Vertical	331	2.01	-



RSE TX below 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.3

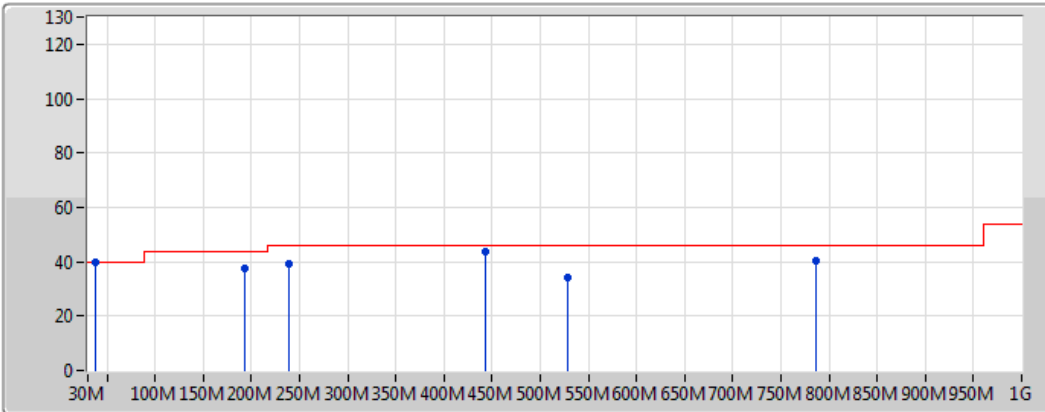
Result

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+80_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
#5530#5610MHz	Pass	PK	37.76M	30.70	40.00	-9.30	-16.56	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	123.12M	32.37	43.50	-11.13	-18.15	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	262.8M	39.12	46.00	-6.88	-14.46	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	328.76M	42.56	46.00	-3.44	-14.49	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	PK	825.4M	41.85	46.00	-4.15	-4.81	3	Horizontal	360	1.00	-
#5530#5610MHz	Pass	QP	790.48M	27.16	46.00	-18.84	-5.24	3	Horizontal	328	2.27	-
#5530#5610MHz	Pass	PK	192.96M	37.72	43.50	-5.78	-20.12	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	239.52M	39.34	46.00	-6.66	-17.41	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	443.22M	43.61	46.00	-2.39	-11.01	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	PK	786.6M	40.60	46.00	-5.40	-5.25	3	Vertical	0	1.00	-
#5530#5610MHz	Pass	QP	37.76M	39.51	40.00	-0.49	-16.56	3	Vertical	331	2.01	-
#5530#5610MHz	Pass	QP	528.58M	34.13	46.00	-11.87	-9.69	3	Vertical	183	2.11	-

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_PoE

10/01/2018



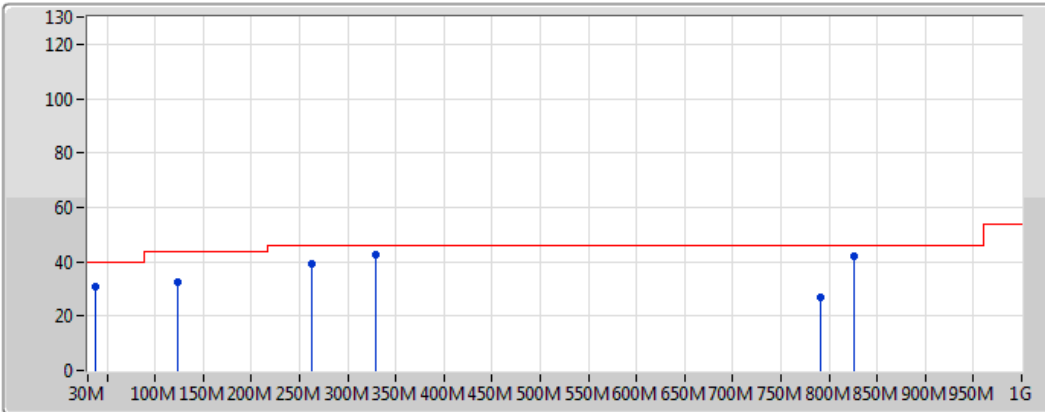
Lim.PK 
PK 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	192.96M	37.72	43.50	-5.78	-20.12	3	Vertical	0	1.00	-	57.84	14.02	2.26	36.41
PK	239.52M	39.34	46.00	-6.66	-17.41	3	Vertical	0	1.00	-	56.75	16.49	2.51	36.40
PK	443.22M	43.61	46.00	-2.39	-11.01	3	Vertical	0	1.00	-	54.62	22.23	3.50	36.74
PK	786.6M	40.60	46.00	-5.40	-5.25	3	Vertical	0	1.00	-	45.85	27.35	4.86	37.46
QP	37.76M	39.51	40.00	-0.49	-16.56	3	Vertical	331	2.01	-	56.07	19.67	1.03	37.26
QP	528.58M	34.13	46.00	-11.87	-9.69	3	Vertical	183	2.11	-	43.82	23.30	4.01	37.00

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_PoE

10/01/2018



Lim.PK 
PK 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	37.76M	30.70	40.00	-9.30	-16.56	3	Horizontal	360	1.00	-	47.26	19.67	1.03	37.26
PK	123.12M	32.37	43.50	-11.13	-18.15	3	Horizontal	360	1.00	-	50.52	16.75	1.81	36.70
PK	262.8M	39.12	46.00	-6.88	-14.46	3	Horizontal	360	1.00	-	53.58	19.29	2.67	36.42
PK	328.76M	42.56	46.00	-3.44	-14.49	3	Horizontal	360	1.00	-	57.05	18.94	3.06	36.49
PK	825.4M	41.85	46.00	-4.15	-4.81	3	Horizontal	360	1.00	-	46.66	27.66	5.02	37.49
QP	790.48M	27.16	46.00	-18.84	-5.24	3	Horizontal	328	2.27	-	32.40	27.34	4.90	37.47



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.4

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	11.1666G	53.72	54.00	-0.28	16.36	3	Vertical	4	2.45	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	PK	5.4676G	67.90	68.20	-0.30	2.91	3	Vertical	4	1.62	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	AV	5.456G	53.56	54.00	-0.44	2.91	3	Vertical	4	1.61	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	Pass	AV	5.46G	52.17	54.00	-1.83	2.91	3	Vertical	6	1.56	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	PK	5.6266G	65.21	68.20	-2.99	5.58	3	Horizontal	3	1.50	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	AV	11.51024G	47.39	54.00	-6.61	15.92	3	Horizontal	357	1.50	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	AV	11.54484G	47.82	54.00	-6.18	15.87	3	Vertical	0	1.50	-



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.4

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 VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	AV	5.46G	49.06	54.00	-4.94	2.91	3	Horizontal	3	1.88	-
5500MHz	Pass	AV	5.508G	108.29	Inf	-Inf	2.95	3	Horizontal	3	1.88	-
5500MHz	Pass	PK	5.4572G	61.99	74.00	-12.01	2.91	3	Horizontal	3	1.88	-
5500MHz	Pass	PK	5.4686G	66.21	68.20	-1.99	2.91	3	Horizontal	3	1.88	-
5500MHz	Pass	PK	5.5052G	120.36	Inf	-Inf	2.94	3	Horizontal	3	1.88	-
5500MHz	Pass	AV	5.4544G	49.86	54.00	-4.14	2.91	3	Vertical	2	2.07	-
5500MHz	Pass	AV	5.4972G	108.47	Inf	-Inf	2.93	3	Vertical	2	2.07	-
5500MHz	Pass	PK	5.4568G	62.58	74.00	-11.42	2.91	3	Vertical	2	2.07	-
5500MHz	Pass	PK	5.4698G	65.86	68.20	-2.34	2.91	3	Vertical	2	2.07	-
5500MHz	Pass	PK	5.495G	120.31	Inf	-Inf	2.93	3	Vertical	2	2.07	-
5500MHz	Pass	AV	11.0003G	50.88	54.00	-3.12	16.57	3	Horizontal	344	1.78	-
5500MHz	Pass	PK	10.99874G	61.78	74.00	-12.22	16.57	3	Horizontal	344	1.78	-
5500MHz	Pass	AV	11.00594G	50.15	54.00	-3.85	16.56	3	Vertical	14	1.46	-
5500MHz	Pass	PK	11.00678G	61.97	74.00	-12.03	16.56	3	Vertical	14	1.46	-
5540MHz	Pass	AV	5.459995G	48.55	54.00	-5.45	2.91	3	Horizontal	354	1.74	-
5540MHz	Pass	AV	5.5388G	109.74	Inf	-Inf	3.01	3	Horizontal	354	1.74	-
5540MHz	Pass	PK	5.4518G	61.40	74.00	-12.60	2.91	3	Horizontal	354	1.74	-
5540MHz	Pass	PK	5.4674G	61.02	68.20	-7.18	2.91	3	Horizontal	354	1.74	-
5540MHz	Pass	PK	5.5388G	120.22	Inf	-Inf	3.01	3	Horizontal	354	1.74	-
5540MHz	Pass	AV	5.459G	48.76	54.00	-5.24	2.91	3	Vertical	7	1.75	-
5540MHz	Pass	AV	5.5394G	110.26	Inf	-Inf	3.01	3	Vertical	7	1.75	-
5540MHz	Pass	PK	5.4572G	61.05	74.00	-12.95	2.91	3	Vertical	7	1.75	-
5540MHz	Pass	PK	5.4656G	61.00	68.20	-7.20	2.91	3	Vertical	7	1.75	-
5540MHz	Pass	PK	5.5388G	121.66	Inf	-Inf	3.01	3	Vertical	7	1.75	-
5540MHz	Pass	AV	11.0872G	51.71	54.00	-2.29	16.46	3	Horizontal	311	1.49	-
5540MHz	Pass	PK	11.08714G	63.53	74.00	-10.47	16.46	3	Horizontal	311	1.49	-
5540MHz	Pass	AV	11.08036G	52.26	54.00	-1.74	16.47	3	Vertical	310	1.50	-
5540MHz	Pass	PK	11.08732G	64.60	74.00	-9.40	16.46	3	Vertical	310	1.50	-
5580MHz	Pass	AV	5.454G	46.51	54.00	-7.49	5.20	3	Horizontal	351	1.50	-
5580MHz	Pass	AV	5.5836G	105.25	Inf	-Inf	5.47	3	Horizontal	351	1.50	-
5580MHz	Pass	PK	5.448G	56.55	74.00	-17.45	5.19	3	Horizontal	351	1.50	-
5580MHz	Pass	PK	5.4636G	56.57	68.20	-11.63	5.21	3	Horizontal	351	1.50	-
5580MHz	Pass	PK	5.586G	113.45	Inf	-Inf	5.47	3	Horizontal	351	1.50	-
5580MHz	Pass	PK	5.7294G	57.41	68.20	-10.79	5.84	3	Horizontal	351	1.50	-
5580MHz	Pass	AV	5.4552G	44.54	54.00	-9.46	2.91	3	Vertical	353	1.43	-
5580MHz	Pass	AV	5.5722G	104.97	Inf	-Inf	3.07	3	Vertical	353	1.43	-
5580MHz	Pass	PK	5.4594G	54.45	74.00	-19.55	2.91	3	Vertical	353	1.43	-
5580MHz	Pass	PK	5.4636G	54.57	68.20	-13.63	2.91	3	Vertical	353	1.43	-
5580MHz	Pass	PK	5.5776G	113.12	Inf	-Inf	3.09	3	Vertical	353	1.43	-
5580MHz	Pass	PK	5.7258G	54.94	68.20	-13.26	3.39	3	Vertical	353	1.43	-
5580MHz	Pass	AV	11.15118G	50.31	54.00	-3.69	16.38	3	Horizontal	343	1.49	-
5580MHz	Pass	PK	11.15124G	61.41	74.00	-12.59	16.38	3	Horizontal	343	1.49	-
5580MHz	Pass	AV	11.1666G	53.72	54.00	-0.28	16.36	3	Vertical	4	2.45	-
5580MHz	Pass	PK	11.16606G	64.85	74.00	-9.15	16.36	3	Vertical	4	2.45	-
5640MHz	Pass	AV	5.6444G	108.04	Inf	-Inf	3.22	3	Horizontal	1	1.49	-
5640MHz	Pass	PK	5.6352G	119.30	Inf	-Inf	3.20	3	Horizontal	1	1.49	-



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5640MHz	Pass	PK	5.7304G	60.29	68.20	-7.91	3.40	3	Horizontal	1	1.49	-
5640MHz	Pass	AV	5.6328G	111.19	Inf	-Inf	3.20	3	Vertical	4	1.65	-
5640MHz	Pass	PK	5.6324G	122.23	Inf	-Inf	3.19	3	Vertical	4	1.65	-
5640MHz	Pass	PK	5.7308G	60.31	68.20	-7.89	3.40	3	Vertical	4	1.65	-
5640MHz	Pass	AV	11.27016G	50.15	54.00	-3.85	16.22	3	Horizontal	21	1.49	-
5640MHz	Pass	PK	11.26878G	61.00	74.00	-13.00	16.23	3	Horizontal	21	1.49	-
5640MHz	Pass	AV	11.27544G	50.63	54.00	-3.37	16.22	3	Vertical	359	1.99	-
5640MHz	Pass	PK	11.27616G	62.36	74.00	-11.64	16.22	3	Vertical	359	1.99	-
5745MHz	Pass	AV	5.7378G	108.86	Inf	-Inf	5.86	3	Horizontal	357	1.68	-
5745MHz	Pass	PK	5.589G	57.30	68.20	-10.90	5.48	3	Horizontal	357	1.68	-
5745MHz	Pass	PK	5.739G	114.59	Inf	-Inf	5.87	3	Horizontal	357	1.68	-
5745MHz	Pass	PK	5.949G	57.07	68.20	-11.13	6.40	3	Horizontal	357	1.68	-
5745MHz	Pass	AV	5.7462G	109.58	Inf	-Inf	5.89	3	Vertical	358	1.65	-
5745MHz	Pass	PK	5.5698G	56.94	68.20	-11.26	5.43	3	Vertical	358	1.65	-
5745MHz	Pass	PK	5.7462G	116.37	Inf	-Inf	5.89	3	Vertical	358	1.65	-
5745MHz	Pass	PK	5.9286G	56.63	68.20	-11.57	6.35	3	Vertical	358	1.65	-
5745MHz	Pass	AV	11.47938G	46.42	54.00	-7.58	15.96	3	Horizontal	317	1.49	-
5745MHz	Pass	PK	11.49024G	55.40	74.00	-18.60	15.94	3	Horizontal	317	1.49	-
5745MHz	Pass	AV	11.48376G	46.53	54.00	-7.47	15.95	3	Vertical	356	1.50	-
5745MHz	Pass	PK	11.4789G	57.00	74.00	-17.00	15.96	3	Vertical	356	1.50	-
5785MHz	Pass	AV	5.7778G	105.37	Inf	-Inf	5.96	3	Horizontal	3	1.50	-
5785MHz	Pass	PK	5.6266G	65.21	68.20	-2.99	5.58	3	Horizontal	3	1.50	-
5785MHz	Pass	PK	5.791G	112.45	Inf	-Inf	6.00	3	Horizontal	3	1.50	-
5785MHz	Pass	PK	5.9602G	64.69	68.20	-3.51	6.43	3	Horizontal	3	1.50	-
5785MHz	Pass	AV	5.7826G	110.00	Inf	-Inf	5.98	3	Vertical	358	1.50	-
5785MHz	Pass	PK	5.5522G	63.90	68.20	-4.30	5.39	3	Vertical	358	1.50	-
5785MHz	Pass	PK	5.7826G	117.25	Inf	-Inf	5.98	3	Vertical	358	1.50	-
5785MHz	Pass	PK	5.959G	64.10	68.20	-4.10	6.43	3	Vertical	358	1.50	-
5785MHz	Pass	AV	11.57966G	46.37	54.00	-7.63	15.83	3	Horizontal	175	1.50	-
5785MHz	Pass	PK	11.57468G	56.23	74.00	-17.77	15.83	3	Horizontal	175	1.50	-
5785MHz	Pass	AV	11.57378G	46.41	54.00	-7.59	15.84	3	Vertical	237	1.48	-
5785MHz	Pass	PK	11.5667G	55.38	74.00	-18.62	15.84	3	Vertical	237	1.48	-
5825MHz	Pass	AV	5.8286G	108.11	Inf	-Inf	6.09	3	Horizontal	357	1.79	-
5825MHz	Pass	PK	5.6042G	64.27	68.20	-3.93	5.52	3	Horizontal	357	1.79	-
5825MHz	Pass	PK	5.8286G	115.19	Inf	-Inf	6.09	3	Horizontal	357	1.79	-
5825MHz	Pass	PK	5.951G	64.46	68.20	-3.74	6.41	3	Horizontal	357	1.79	-
5825MHz	Pass	AV	5.8214G	109.12	Inf	-Inf	6.08	3	Vertical	6	1.50	-
5825MHz	Pass	PK	5.5646G	64.23	68.20	-3.97	5.42	3	Vertical	6	1.50	-
5825MHz	Pass	PK	5.8202G	117.83	Inf	-Inf	6.07	3	Vertical	6	1.50	-
5825MHz	Pass	PK	5.9606G	64.30	68.20	-3.90	6.43	3	Vertical	6	1.50	-
5825MHz	Pass	AV	11.64814G	46.58	54.00	-7.42	15.74	3	Horizontal	330	1.59	-
5825MHz	Pass	PK	11.65438G	55.98	74.00	-18.02	15.73	3	Horizontal	330	1.59	-
5825MHz	Pass	AV	11.65324G	46.47	54.00	-7.53	15.73	3	Vertical	256	1.51	-
5825MHz	Pass	PK	11.64946G	56.15	74.00	-17.85	15.74	3	Vertical	256	1.51	-
802.11ac VHT40_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	AV	5.4592G	48.58	54.00	-5.42	2.91	3	Horizontal	0	1.54	-
5510MHz	Pass	AV	5.5016G	98.77	Inf	-Inf	2.93	3	Horizontal	0	1.54	-
5510MHz	Pass	PK	5.4412G	61.39	74.00	-12.61	2.90	3	Horizontal	0	1.54	-



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5510MHz	Pass	PK	5.4696G	62.44	68.20	-5.76	2.91	3	Horizontal	0	1.54	-
5510MHz	Pass	PK	5.5024G	110.57	Inf	-Inf	2.93	3	Horizontal	0	1.54	-
5510MHz	Pass	AV	5.46G	50.25	54.00	-3.75	2.91	3	Vertical	4	1.62	-
5510MHz	Pass	AV	5.4984G	99.49	Inf	-Inf	2.93	3	Vertical	4	1.62	-
5510MHz	Pass	PK	5.46G	63.98	74.00	-10.02	2.91	3	Vertical	4	1.62	-
5510MHz	Pass	PK	5.4676G	67.90	68.20	-0.30	2.91	3	Vertical	4	1.62	-
5510MHz	Pass	PK	5.5G	111.62	Inf	-Inf	2.93	3	Vertical	4	1.62	-
5510MHz	Pass	AV	11.03236G	47.90	54.00	-6.10	16.53	3	Horizontal	41	2.07	-
5510MHz	Pass	PK	11.00614G	58.22	74.00	-15.78	16.56	3	Horizontal	41	2.07	-
5510MHz	Pass	AV	11.03416G	48.67	54.00	-5.33	16.53	3	Vertical	354	1.63	-
5510MHz	Pass	PK	11.0269G	58.80	74.00	-15.20	16.54	3	Vertical	354	1.63	-
5550MHz	Pass	AV	5.4532G	48.33	54.00	-5.67	2.91	3	Horizontal	0	1.54	-
5550MHz	Pass	AV	5.5528G	104.02	Inf	-Inf	3.04	3	Horizontal	0	1.54	-
5550MHz	Pass	PK	5.4536G	61.02	74.00	-12.98	2.91	3	Horizontal	0	1.54	-
5550MHz	Pass	PK	5.4636G	61.68	68.20	-6.52	2.91	3	Horizontal	0	1.54	-
5550MHz	Pass	PK	5.5564G	115.91	Inf	-Inf	3.04	3	Horizontal	0	1.54	-
5550MHz	Pass	AV	5.458G	48.81	54.00	-5.19	2.91	3	Vertical	4	1.50	-
5550MHz	Pass	AV	5.5408G	104.57	Inf	-Inf	3.01	3	Vertical	4	1.50	-
5550MHz	Pass	PK	5.4552G	63.91	74.00	-10.09	2.91	3	Vertical	4	1.50	-
5550MHz	Pass	PK	5.4664G	67.61	68.20	-0.59	2.91	3	Vertical	4	1.50	-
5550MHz	Pass	PK	5.5352G	117.12	Inf	-Inf	3.00	3	Vertical	4	1.50	-
5550MHz	Pass	AV	11.11104G	49.56	54.00	-4.44	16.43	3	Horizontal	342	1.50	-
5550MHz	Pass	PK	11.091G	60.81	74.00	-13.19	16.45	3	Horizontal	342	1.50	-
5550MHz	Pass	AV	11.09796G	52.79	54.00	-1.21	16.44	3	Vertical	47	1.63	-
5550MHz	Pass	PK	11.10012G	63.15	74.00	-10.85	16.44	3	Vertical	47	1.63	-
5590MHz	Pass	AV	5.459995G	48.33	54.00	-5.67	2.91	3	Horizontal	8	1.50	-
5590MHz	Pass	AV	5.6014G	107.25	Inf	-Inf	3.13	3	Horizontal	8	1.50	-
5590MHz	Pass	PK	5.455G	62.52	74.00	-11.48	2.91	3	Horizontal	8	1.50	-
5590MHz	Pass	PK	5.4658G	63.21	68.20	-4.99	2.91	3	Horizontal	8	1.50	-
5590MHz	Pass	PK	5.6038G	118.39	Inf	-Inf	3.14	3	Horizontal	8	1.50	-
5590MHz	Pass	PK	5.74G	60.93	68.20	-7.27	3.42	3	Horizontal	8	1.50	-
5590MHz	Pass	AV	5.459995G	48.66	54.00	-5.34	2.91	3	Vertical	5	1.61	-
5590MHz	Pass	AV	5.587G	108.97	Inf	-Inf	3.10	3	Vertical	5	1.61	-
5590MHz	Pass	PK	5.458G	62.05	74.00	-11.95	2.91	3	Vertical	5	1.61	-
5590MHz	Pass	PK	5.467G	65.73	68.20	-2.47	2.91	3	Vertical	5	1.61	-
5590MHz	Pass	PK	5.5858G	120.26	Inf	-Inf	3.10	3	Vertical	5	1.61	-
5590MHz	Pass	PK	5.7328G	60.28	68.20	-7.92	3.40	3	Vertical	5	1.61	-
5590MHz	Pass	AV	11.16698G	52.81	54.00	-1.19	16.36	3	Horizontal	27	1.67	-
5590MHz	Pass	PK	11.16632G	63.23	74.00	-10.77	16.36	3	Horizontal	27	1.67	-
5590MHz	Pass	AV	11.195G	53.04	54.00	-0.96	16.32	3	Vertical	355	1.50	-
5590MHz	Pass	PK	11.17454G	63.71	74.00	-10.29	16.35	3	Vertical	355	1.50	-
5630MHz	Pass	AV	5.627G	106.01	Inf	-Inf	3.18	3	Horizontal	1	1.64	-
5630MHz	Pass	PK	5.6246G	118.40	Inf	-Inf	3.18	3	Horizontal	1	1.64	-
5630MHz	Pass	PK	5.75G	61.26	68.20	-6.94	3.44	3	Horizontal	1	1.64	-
5630MHz	Pass	AV	5.621G	108.27	Inf	-Inf	3.17	3	Vertical	4	1.58	-
5630MHz	Pass	PK	5.6186G	120.50	Inf	-Inf	3.17	3	Vertical	4	1.58	-
5630MHz	Pass	PK	5.7332G	60.96	68.20	-7.24	3.40	3	Vertical	4	1.58	-
5630MHz	Pass	AV	11.26834G	50.45	54.00	-3.55	16.23	3	Horizontal	336	1.50	-



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

Appendix E.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5630MHz	Pass	PK	11.25886G	61.26	74.00	-12.74	16.24	3	Horizontal	336	1.50	-
5630MHz	Pass	AV	11.2474G	50.42	54.00	-3.58	16.25	3	Vertical	357	1.50	-
5630MHz	Pass	PK	11.25562G	63.03	74.00	-10.97	16.24	3	Vertical	357	1.50	-
5755MHz	Pass	AV	5.749G	107.38	Inf	-Inf	5.89	3	Horizontal	359	1.49	-
5755MHz	Pass	PK	5.6398G	58.23	68.20	-9.97	5.61	3	Horizontal	359	1.49	-
5755MHz	Pass	PK	5.7478G	114.48	Inf	-Inf	5.89	3	Horizontal	359	1.49	-
5755MHz	Pass	PK	5.941G	58.95	68.20	-9.25	6.38	3	Horizontal	359	1.49	-
5755MHz	Pass	AV	5.7442G	110.43	Inf	-Inf	5.88	3	Vertical	357	1.51	-
5755MHz	Pass	PK	5.6434G	58.04	68.20	-10.16	5.62	3	Vertical	357	1.51	-
5755MHz	Pass	PK	5.761G	114.53	Inf	-Inf	5.92	3	Vertical	357	1.51	-
5755MHz	Pass	PK	5.9794G	58.81	68.20	-9.39	6.48	3	Vertical	357	1.51	-
5755MHz	Pass	AV	11.51024G	47.39	54.00	-6.61	15.92	3	Horizontal	357	1.50	-
5755MHz	Pass	PK	11.51018G	55.64	74.00	-18.36	15.92	3	Horizontal	357	1.50	-
5755MHz	Pass	AV	11.50112G	47.06	54.00	-6.94	15.93	3	Vertical	318	1.50	-
5755MHz	Pass	PK	11.50154G	56.36	74.00	-17.64	15.93	3	Vertical	318	1.50	-
5795MHz	Pass	AV	5.789G	106.69	Inf	-Inf	5.99	3	Horizontal	358	1.49	-
5795MHz	Pass	PK	5.6306G	58.71	68.20	-9.49	5.59	3	Horizontal	358	1.49	-
5795MHz	Pass	PK	5.8058G	111.81	Inf	-Inf	6.04	3	Horizontal	358	1.49	-
5795MHz	Pass	PK	5.9426G	58.63	68.20	-9.57	6.39	3	Horizontal	358	1.49	-
5795MHz	Pass	AV	5.7998G	106.48	Inf	-Inf	6.02	3	Vertical	359	1.50	-
5795MHz	Pass	PK	5.5466G	59.46	68.20	-8.74	5.38	3	Vertical	359	1.50	-
5795MHz	Pass	PK	5.7998G	115.41	Inf	-Inf	6.02	3	Vertical	359	1.50	-
5795MHz	Pass	PK	5.9282G	58.77	68.20	-9.43	6.35	3	Vertical	359	1.50	-
5795MHz	Pass	AV	11.58934G	46.88	54.00	-7.12	15.82	3	Horizontal	317	1.52	-
5795MHz	Pass	PK	11.5843G	56.25	74.00	-17.75	15.82	3	Horizontal	317	1.52	-
5795MHz	Pass	AV	11.58646G	46.80	54.00	-7.20	15.82	3	Vertical	3	1.58	-
5795MHz	Pass	PK	11.5942G	55.43	74.00	-18.57	15.81	3	Vertical	3	1.58	-
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	AV	5.447G	49.09	54.00	-4.91	2.90	3	Horizontal	0	1.55	-
5530MHz	Pass	AV	5.548G	96.74	Inf	-Inf	3.03	3	Horizontal	0	1.55	-
5530MHz	Pass	PK	5.345G	59.56	68.20	-8.64	2.85	3	Horizontal	0	1.55	-
5530MHz	Pass	PK	5.466G	62.47	68.20	-5.73	2.91	3	Horizontal	0	1.55	-
5530MHz	Pass	PK	5.549G	107.58	Inf	-Inf	3.03	3	Horizontal	0	1.55	-
5530MHz	Pass	PK	5.74G	59.77	68.20	-8.43	3.42	3	Horizontal	0	1.55	-
5530MHz	Pass	AV	5.456G	53.56	54.00	-0.44	2.91	3	Vertical	4	1.61	-
5530MHz	Pass	AV	5.506G	95.93	Inf	-Inf	2.94	3	Vertical	4	1.61	-
5530MHz	Pass	PK	5.46G	65.40	74.00	-8.60	2.91	3	Vertical	4	1.61	-
5530MHz	Pass	PK	5.469G	65.53	68.20	-2.67	2.91	3	Vertical	4	1.61	-
5530MHz	Pass	PK	5.508G	108.89	Inf	-Inf	2.95	3	Vertical	4	1.61	-
5530MHz	Pass	PK	5.741G	60.18	68.20	-8.02	3.42	3	Vertical	4	1.61	-
5530MHz	Pass	AV	11.07008G	47.88	54.00	-6.12	16.48	3	Horizontal	298	1.50	-
5530MHz	Pass	PK	11.04734G	56.51	74.00	-17.49	16.51	3	Horizontal	298	1.50	-
5530MHz	Pass	AV	11.07404G	48.33	54.00	-5.67	16.48	3	Vertical	1	2.09	-
5530MHz	Pass	PK	11.0627G	57.09	74.00	-16.91	16.49	3	Vertical	1	2.09	-
5610MHz	Pass	AV	5.455G	50.23	54.00	-3.77	2.91	3	Horizontal	2	1.56	-
5610MHz	Pass	AV	5.587G	102.03	Inf	-Inf	3.10	3	Horizontal	2	1.56	-
5610MHz	Pass	PK	5.455G	64.63	74.00	-9.37	2.91	3	Horizontal	2	1.56	-
5610MHz	Pass	PK	5.466G	63.26	68.20	-4.94	2.91	3	Horizontal	2	1.56	-



RSE TX above 1GHz Result(Antenna Gain 15 dBi) Beamforming

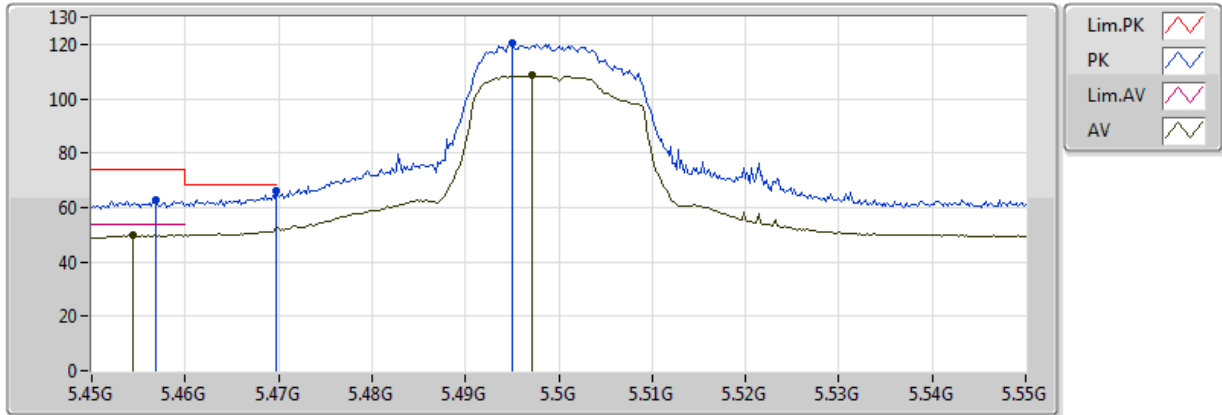
Appendix E.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5610MHz	Pass	PK	5.632G	112.29	Inf	-Inf	3.19	3	Horizontal	2	1.56	-
5610MHz	Pass	PK	5.755G	60.65	68.20	-7.55	3.45	3	Horizontal	2	1.56	-
5610MHz	Pass	AV	5.459G	50.79	54.00	-3.21	2.91	3	Vertical	6	1.56	-
5610MHz	Pass	AV	5.59G	102.24	Inf	-Inf	3.11	3	Vertical	6	1.56	-
5610MHz	Pass	PK	5.455G	67.05	74.00	-6.95	2.91	3	Vertical	6	1.56	-
5610MHz	Pass	PK	5.467G	67.59	68.20	-0.61	2.91	3	Vertical	6	1.56	-
5610MHz	Pass	PK	5.586G	118.77	Inf	-Inf	3.10	3	Vertical	6	1.56	-
5610MHz	Pass	PK	5.782G	61.19	68.20	-7.01	3.51	3	Vertical	6	1.56	-
5610MHz	Pass	AV	11.20818G	49.54	54.00	-4.46	16.30	3	Horizontal	355	1.39	-
5610MHz	Pass	PK	11.23122G	57.48	74.00	-16.52	16.27	3	Horizontal	355	1.39	-
5610MHz	Pass	AV	11.23398G	49.03	54.00	-4.97	16.27	3	Vertical	3	1.50	-
5610MHz	Pass	PK	11.20968G	57.28	74.00	-16.72	16.30	3	Vertical	3	1.50	-
5775MHz	Pass	AV	5.763G	99.81	Inf	-Inf	5.93	3	Horizontal	359	1.51	-
5775MHz	Pass	PK	5.619G	57.69	68.20	-10.51	5.56	3	Horizontal	359	1.51	-
5775MHz	Pass	PK	5.7654G	107.51	Inf	-Inf	5.93	3	Horizontal	359	1.51	-
5775MHz	Pass	PK	5.9514G	58.47	68.20	-9.73	6.41	3	Horizontal	359	1.51	-
5775MHz	Pass	AV	5.7774G	102.05	Inf	-Inf	5.96	3	Vertical	358	1.50	-
5775MHz	Pass	PK	5.5206G	57.89	68.20	-10.31	5.31	3	Vertical	358	1.50	-
5775MHz	Pass	PK	5.787G	109.71	Inf	-Inf	5.99	3	Vertical	358	1.50	-
5775MHz	Pass	PK	5.9742G	58.84	68.20	-9.36	6.47	3	Vertical	358	1.50	-
5775MHz	Pass	AV	11.54106G	46.69	54.00	-7.31	15.88	3	Horizontal	360	1.50	-
5775MHz	Pass	PK	11.55978G	55.48	74.00	-18.52	15.85	3	Horizontal	360	1.50	-
5775MHz	Pass	AV	11.54484G	47.82	54.00	-6.18	15.87	3	Vertical	0	1.50	-
5775MHz	Pass	PK	11.54106G	56.38	74.00	-17.62	15.88	3	Vertical	0	1.50	-
802.11ac VHT80+80_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
#5530#5610MHz	Pass	AV	5.45G	50.57	54.00	-3.43	2.91	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	AV	5.506G	94.76	Inf	-Inf	2.94	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	PK	5.455G	62.58	74.00	-11.42	2.91	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	PK	5.465G	62.81	68.20	-5.39	2.91	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	PK	5.629G	104.97	Inf	-Inf	3.19	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	PK	5.745G	61.12	68.20	-7.08	3.43	3	Horizontal	1	1.99	-
#5530#5610MHz	Pass	AV	5.46G	52.17	54.00	-1.83	2.91	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	AV	5.496G	98.25	Inf	-Inf	2.93	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	PK	5.455G	65.54	74.00	-8.46	2.91	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	PK	5.462G	65.55	68.20	-2.65	2.91	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	PK	5.533G	105.48	Inf	-Inf	3.00	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	PK	5.779G	60.83	68.20	-7.37	3.50	3	Vertical	6	1.56	-
#5530#5610MHz	Pass	AV	11.234G	42.16	54.00	-11.84	13.71	3	Horizontal	148	1.50	-
#5530#5610MHz	Pass	PK	11.1912G	54.19	74.00	-19.81	13.77	3	Horizontal	148	1.50	-
#5530#5610MHz	Pass	AV	11.2176G	42.92	54.00	-11.08	13.73	3	Vertical	14	1.35	-
#5530#5610MHz	Pass	PK	11.1752G	55.12	74.00	-18.88	13.79	3	Vertical	14	1.35	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

03/01/2018

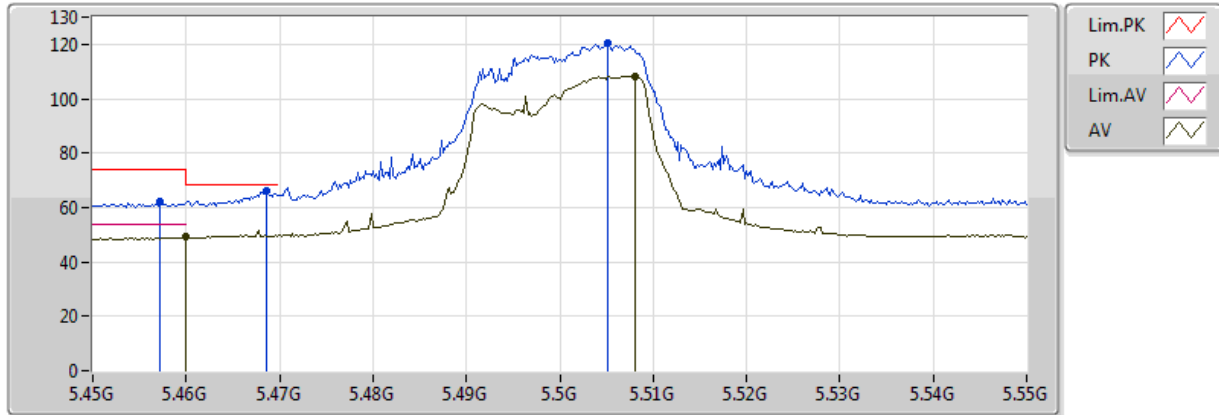


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4544G	49.86	54.00	-4.14	2.91	3	Vertical	2	2.07	-	46.95	31.78	5.67	34.54
AV	5.4972G	108.47	Inf	-Inf	2.93	3	Vertical	2	2.07	-	105.54	31.80	5.67	34.54
PK	5.4568G	62.58	74.00	-11.42	2.91	3	Vertical	2	2.07	-	59.67	31.78	5.67	34.54
PK	5.4698G	65.86	68.20	-2.34	2.91	3	Vertical	2	2.07	-	62.94	31.79	5.67	34.54
PK	5.495G	120.31	Inf	-Inf	2.93	3	Vertical	2	2.07	-	117.38	31.80	5.67	34.54

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

03/01/2018

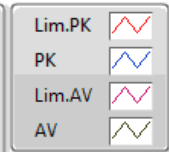
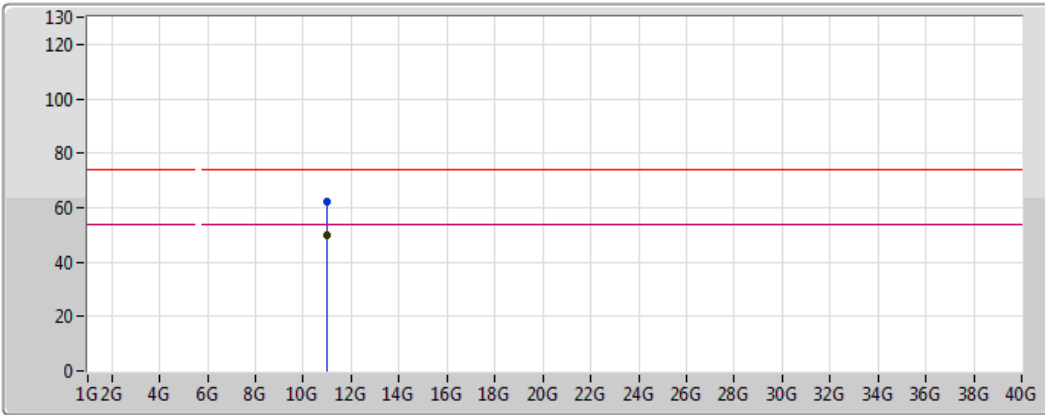


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	49.06	54.00	-4.94	2.91	3	Horizontal	3	1.88	-	46.15	31.78	5.67	34.54
AV	5.508G	108.29	Inf	-Inf	2.95	3	Horizontal	3	1.88	-	105.34	31.81	5.68	34.54
PK	5.4572G	61.99	74.00	-12.01	2.91	3	Horizontal	3	1.88	-	59.08	31.78	5.67	34.54
PK	5.4686G	66.21	68.20	-1.99	2.91	3	Horizontal	3	1.88	-	63.29	31.79	5.67	34.54
PK	5.5052G	120.36	Inf	-Inf	2.94	3	Horizontal	3	1.88	-	117.42	31.81	5.67	34.54

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

05/01/2018

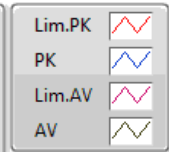
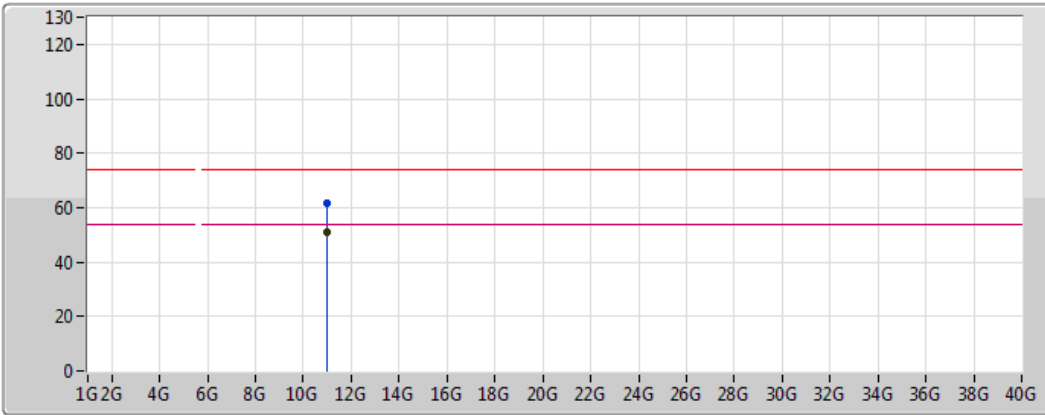


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.00594G	50.15	54.00	-3.85	16.56	3	Vertical	14	1.46	-	33.59	40.29	11.65	35.38
PK	11.00678G	61.97	74.00	-12.03	16.56	3	Vertical	14	1.46	-	45.41	40.29	11.65	35.38

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_BF

05/01/2018

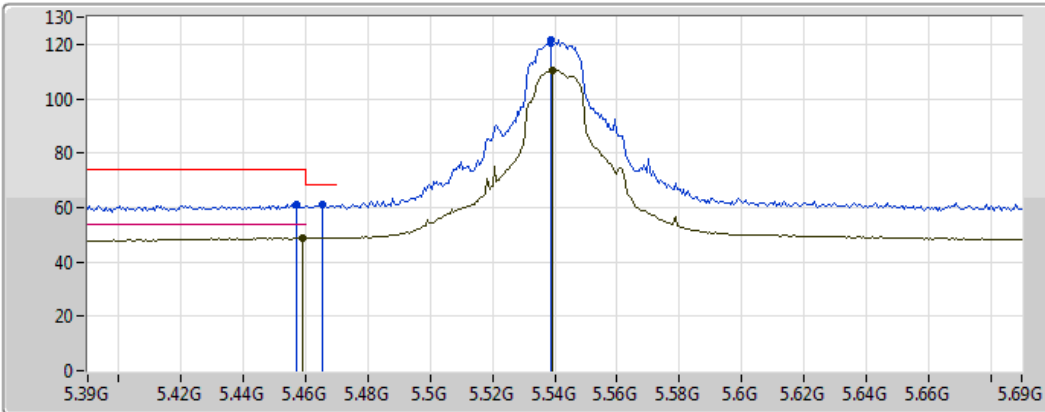


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.0003G	50.88	54.00	-3.12	16.57	3	Horizontal	344	1.78	-	34.31	40.30	11.65	35.38
PK	10.99874G	61.78	74.00	-12.22	16.57	3	Horizontal	344	1.78	-	45.21	40.30	11.65	35.38

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

03/01/2018

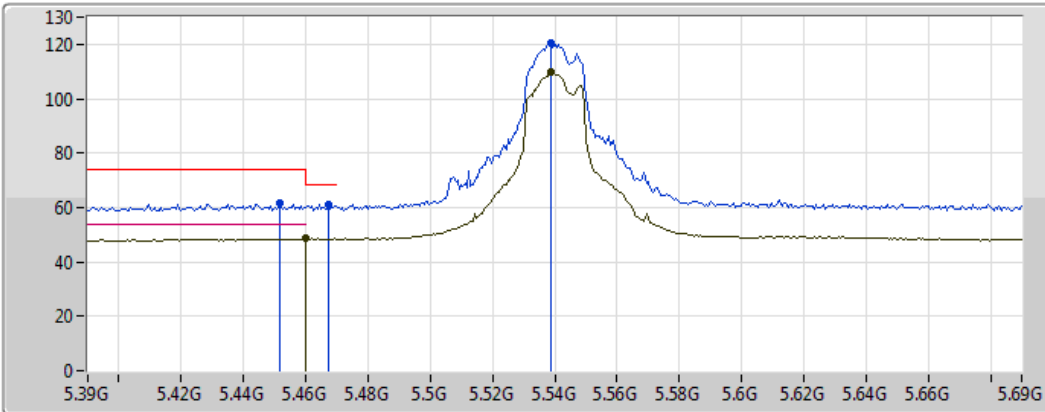


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459G	48.76	54.00	-5.24	2.91	3	Vertical	7	1.75	-	45.86	31.78	5.67	34.54
AV	5.5394G	110.26	Inf	-Inf	3.01	3	Vertical	7	1.75	-	107.26	31.86	5.70	34.55
PK	5.4572G	61.05	74.00	-12.95	2.91	3	Vertical	7	1.75	-	58.14	31.78	5.67	34.54
PK	5.4656G	61.00	68.20	-7.20	2.91	3	Vertical	7	1.75	-	58.09	31.79	5.67	34.54
PK	5.5388G	121.66	Inf	-Inf	3.01	3	Vertical	7	1.75	-	118.65	31.86	5.70	34.55

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

03/01/2018

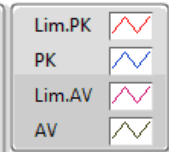
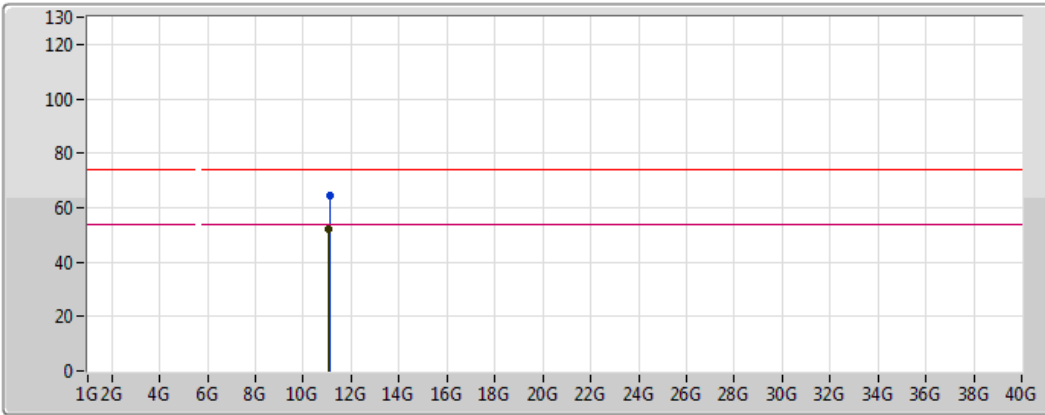


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459995G	48.55	54.00	-5.45	2.91	3	Horizontal	354	1.74	-	45.64	31.78	5.67	34.54
AV	5.5388G	109.74	Inf	-Inf	3.01	3	Horizontal	354	1.74	-	106.73	31.86	5.70	34.55
PK	5.4518G	61.40	74.00	-12.60	2.91	3	Horizontal	354	1.74	-	58.50	31.78	5.67	34.54
PK	5.4674G	61.02	68.20	-7.18	2.91	3	Horizontal	354	1.74	-	58.11	31.79	5.67	34.54
PK	5.5388G	120.22	Inf	-Inf	3.01	3	Horizontal	354	1.74	-	117.22	31.86	5.70	34.55

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

05/01/2018

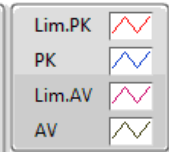
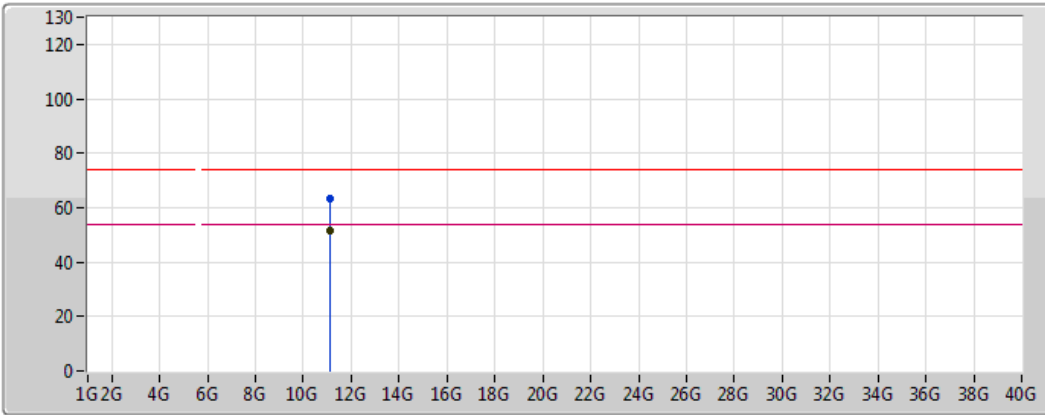


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.08036G	52.26	54.00	-1.74	16.47	3	Vertical	310	1.50	-	35.80	40.18	11.68	35.40
PK	11.08732G	64.60	74.00	-9.40	16.46	3	Vertical	310	1.50	-	48.14	40.17	11.69	35.40

802.11ac VHT20_Nss1,(MCS0)_4TX

5540MHz_BF

05/01/2018

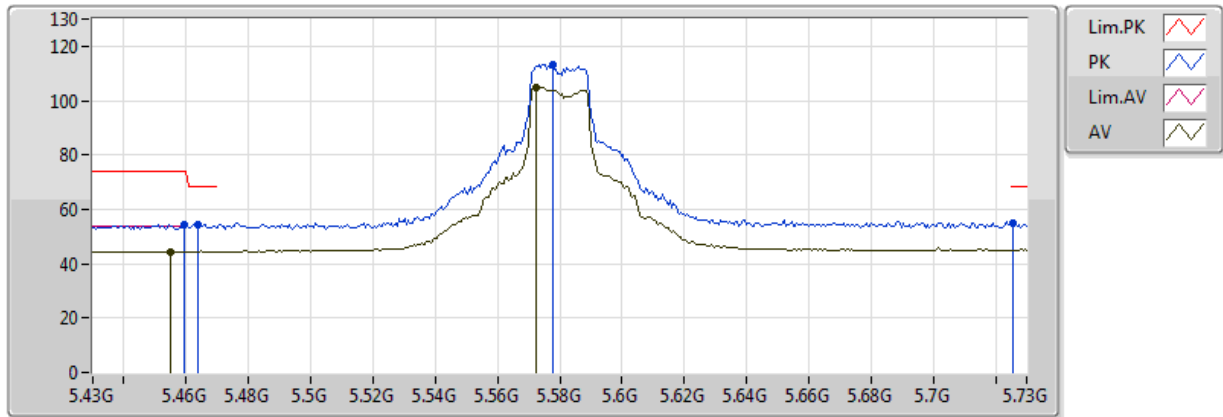


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.0872G	51.71	54.00	-2.29	16.46	3	Horizontal	311	1.49	-	35.25	40.17	11.69	35.40
PK	11.08714G	63.53	74.00	-10.47	16.46	3	Horizontal	311	1.49	-	47.07	40.17	11.69	35.40

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

05/01/2018

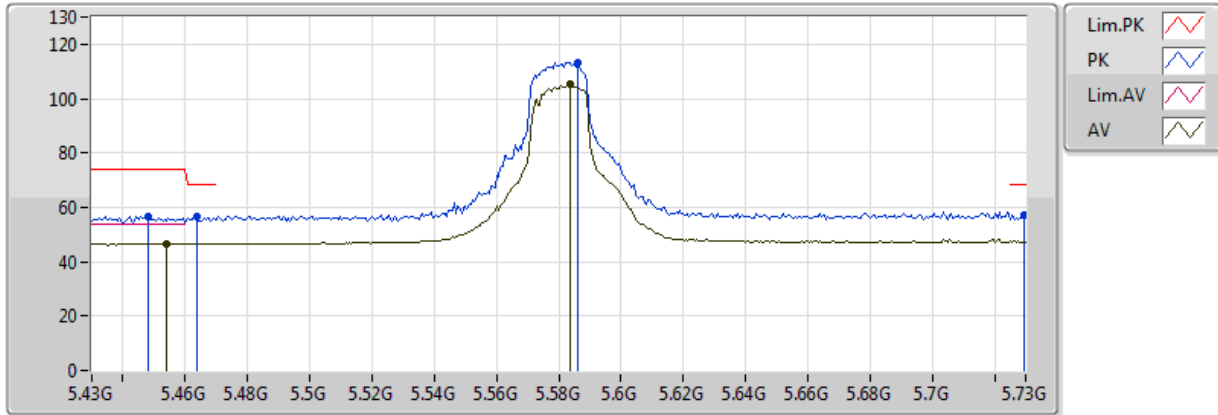


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4552G	44.54	54.00	-9.46	2.91	3	Vertical	353	1.43	-	41.63	31.78	5.67	34.54
AV	5.5722G	104.97	Inf	-Inf	3.07	3	Vertical	353	1.43	-	101.90	31.92	5.72	34.56
PK	5.4594G	54.45	74.00	-19.55	2.91	3	Vertical	353	1.43	-	51.54	31.78	5.67	34.54
PK	5.4636G	54.57	68.20	-13.63	2.91	3	Vertical	353	1.43	-	51.66	31.79	5.67	34.54
PK	5.5776G	113.12	Inf	-Inf	3.09	3	Vertical	353	1.43	-	110.03	31.92	5.72	34.56
PK	5.7258G	54.94	68.20	-13.26	3.39	3	Vertical	353	1.43	-	51.56	32.16	5.83	34.61

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

05/01/2018

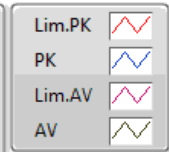
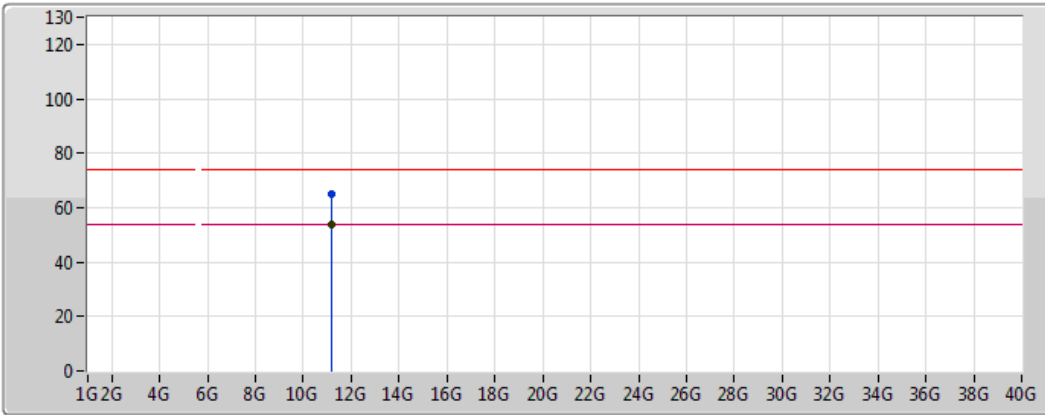


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.454G	46.51	54.00	-7.49	5.20	3	Horizontal	351	1.50	-	41.31	31.86	8.51	35.17
AV	5.5836G	105.25	Inf	-Inf	5.47	3	Horizontal	351	1.50	-	99.78	32.00	8.65	35.18
PK	5.448G	56.55	74.00	-17.45	5.19	3	Horizontal	351	1.50	-	51.36	31.86	8.51	35.18
PK	5.4636G	56.57	68.20	-11.63	5.21	3	Horizontal	351	1.50	-	51.35	31.87	8.52	35.17
PK	5.586G	113.45	Inf	-Inf	5.47	3	Horizontal	351	1.50	-	107.98	32.00	8.65	35.18
PK	5.7294G	57.41	68.20	-10.79	5.84	3	Horizontal	351	1.50	-	51.56	32.18	8.85	35.18

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

05/01/2018

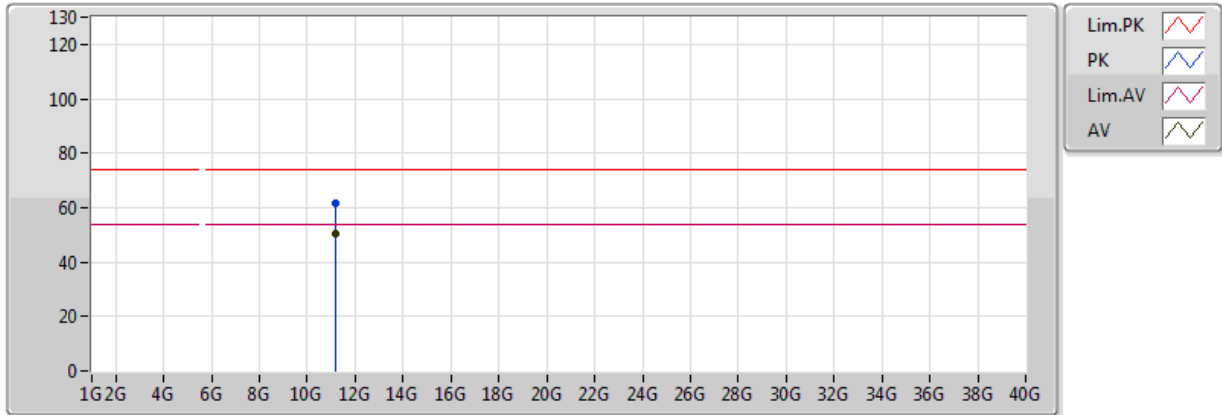


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.1666G	53.72	54.00	-0.28	16.36	3	Vertical	4	2.45	-	37.36	40.05	11.72	35.41
PK	11.16606G	64.85	74.00	-9.15	16.36	3	Vertical	4	2.45	-	48.49	40.05	11.72	35.41

802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz_BF

05/01/2018

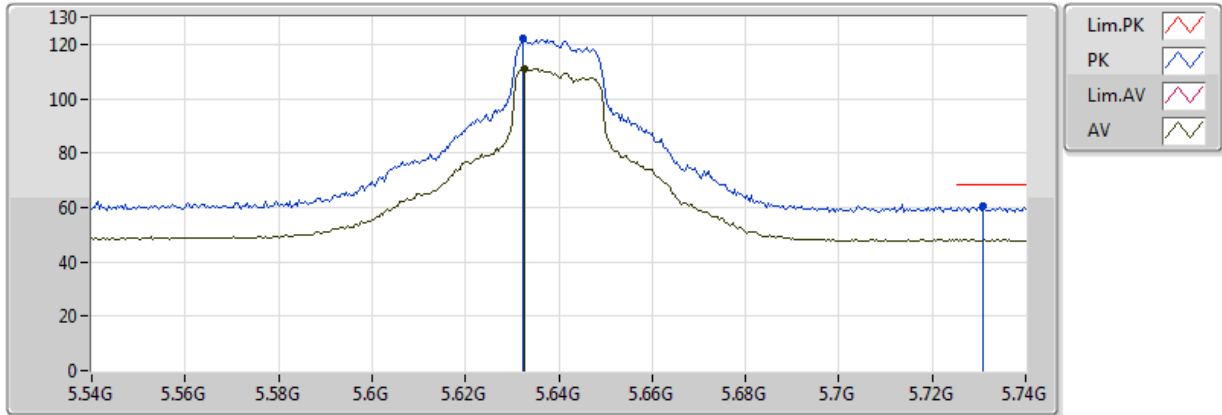


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15118G	50.31	54.00	-3.69	16.38	3	Horizontal	343	1.49	-	33.94	40.07	11.71	35.41
PK	11.15124G	61.41	74.00	-12.59	16.38	3	Horizontal	343	1.49	-	45.03	40.07	11.71	35.41

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

04/01/2018

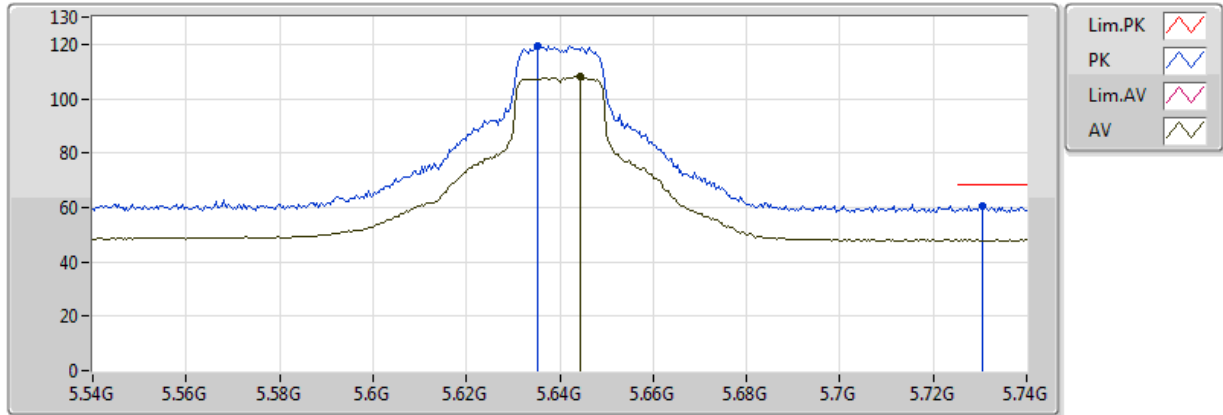


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6328G	111.19	Inf	-Inf	3.20	3	Vertical	4	1.65	-	107.99	32.01	5.76	34.58
PK	5.7308G	60.31	68.20	-7.89	3.40	3	Vertical	4	1.65	-	56.91	32.17	5.83	34.61
PK	5.6324G	122.23	Inf	-Inf	3.19	3	Vertical	4	1.65	-	119.04	32.01	5.76	34.58

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

04/01/2018

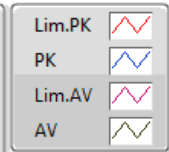
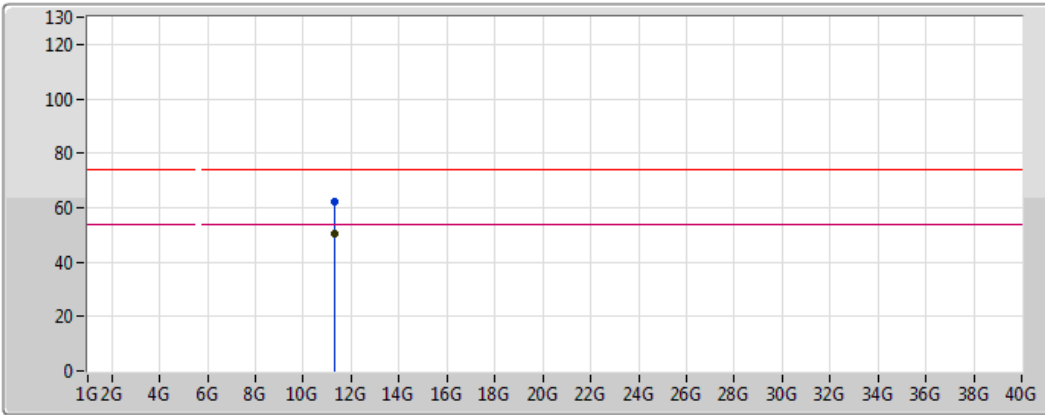


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6444G	108.04	Inf	-Inf	3.22	3	Horizontal	1	1.49	-	104.82	32.03	5.77	34.58
PK	5.7304G	60.29	68.20	-7.91	3.40	3	Horizontal	1	1.49	-	56.89	32.17	5.83	34.61
PK	5.6352G	119.30	Inf	-Inf	3.20	3	Horizontal	1	1.49	-	116.10	32.02	5.76	34.58

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

05/01/2018

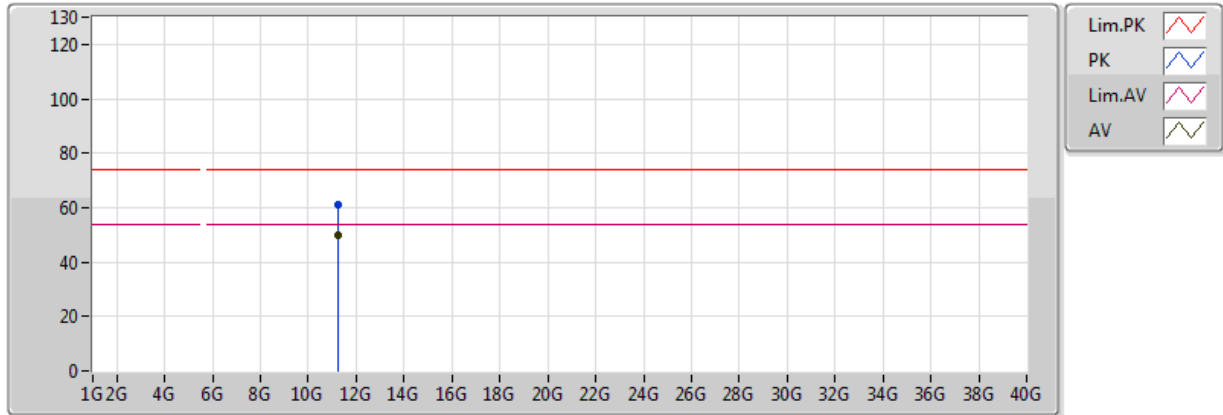


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.27544G	50.63	54.00	-3.37	16.22	3	Vertical	359	1.99	-	34.41	39.89	11.77	35.44
PK	11.27616G	62.36	74.00	-11.64	16.22	3	Vertical	359	1.99	-	46.15	39.89	11.77	35.44

802.11ac VHT20_Nss1,(MCS0)_4TX

5640MHz_BF

05/01/2018

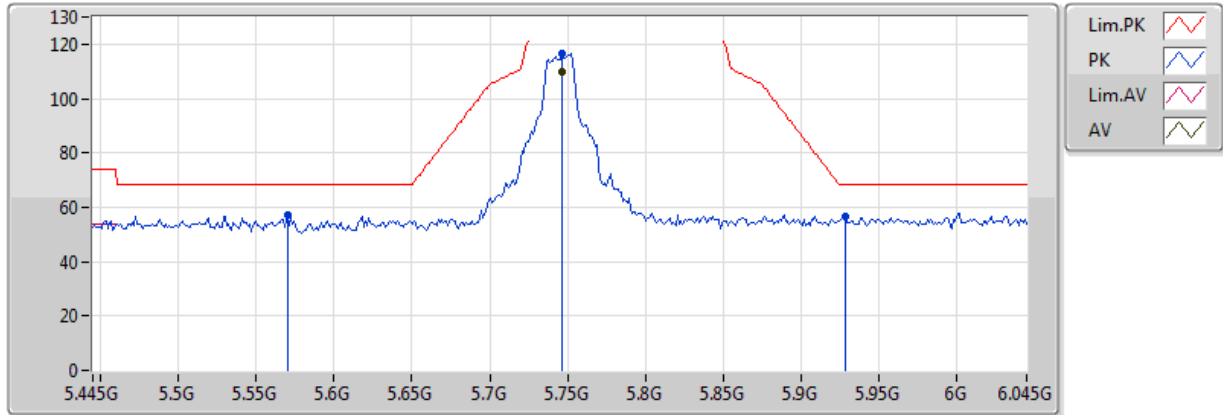


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.27016G	50.15	54.00	-3.85	16.22	3	Horizontal	21	1.49	-	33.93	39.89	11.76	35.43
PK	11.26878G	61.00	74.00	-13.00	16.23	3	Horizontal	21	1.49	-	44.77	39.90	11.76	35.43

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

05/01/2018

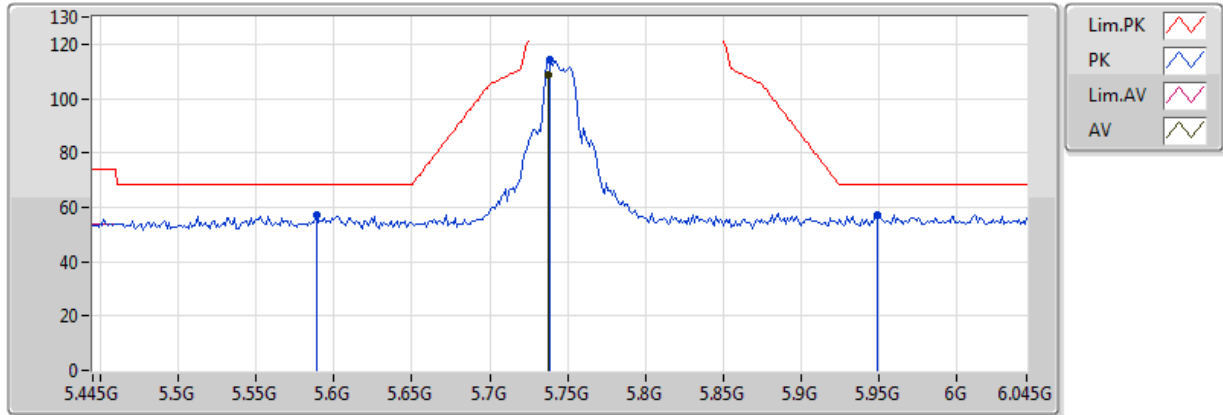


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7462G	109.58	Inf	-Inf	5.89	3	Vertical	358	1.65	-	103.70	32.20	8.87	35.18
PK	5.5698G	56.94	68.20	-11.26	5.43	3	Vertical	358	1.65	-	51.50	31.98	8.63	35.18
PK	5.7462G	116.37	Inf	-Inf	5.89	3	Vertical	358	1.65	-	110.48	32.20	8.87	35.18
PK	5.9286G	56.63	68.20	-11.57	6.35	3	Vertical	358	1.65	-	50.28	32.41	9.13	35.19

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

05/01/2018

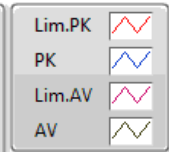
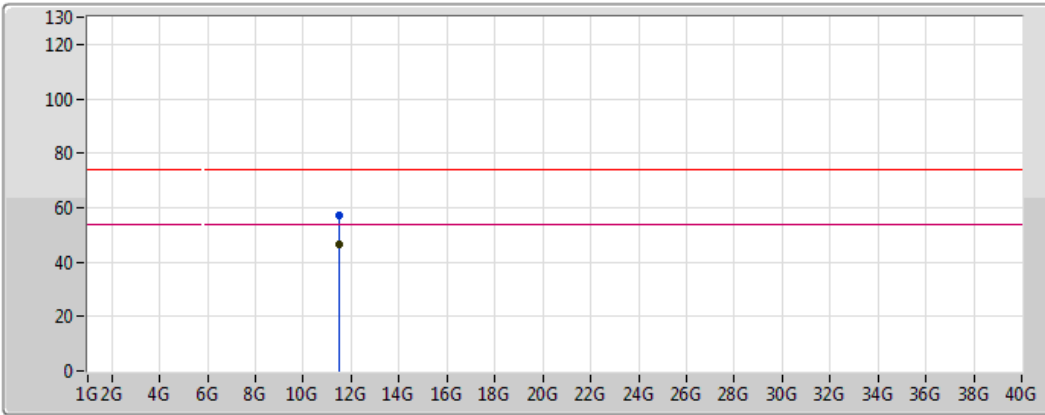


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7378G	108.86	Inf	-Inf	5.86	3	Horizontal	357	1.68	-	102.99	32.19	8.86	35.18
PK	5.589G	57.30	68.20	-10.90	5.48	3	Horizontal	357	1.68	-	51.82	32.01	8.65	35.18
PK	5.739G	114.59	Inf	-Inf	5.87	3	Horizontal	357	1.68	-	108.72	32.19	8.86	35.18
PK	5.949G	57.07	68.20	-11.13	6.40	3	Horizontal	357	1.68	-	50.67	32.44	9.16	35.19

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

05/01/2018

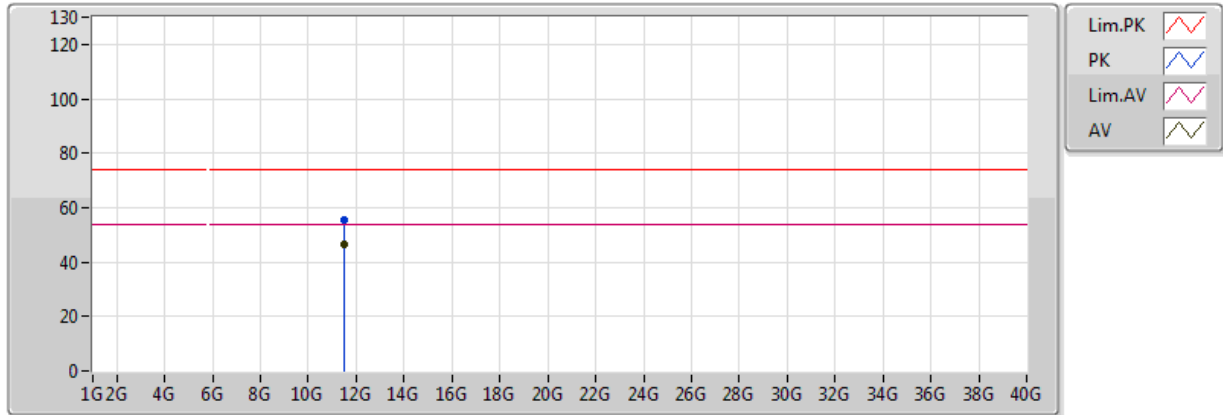


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.48376G	46.53	54.00	-7.47	15.95	3	Vertical	356	1.50	-	30.58	39.57	11.85	35.48
PK	11.4789G	57.00	74.00	-17.00	15.96	3	Vertical	356	1.50	-	41.04	39.58	11.85	35.48

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_BF

05/01/2018

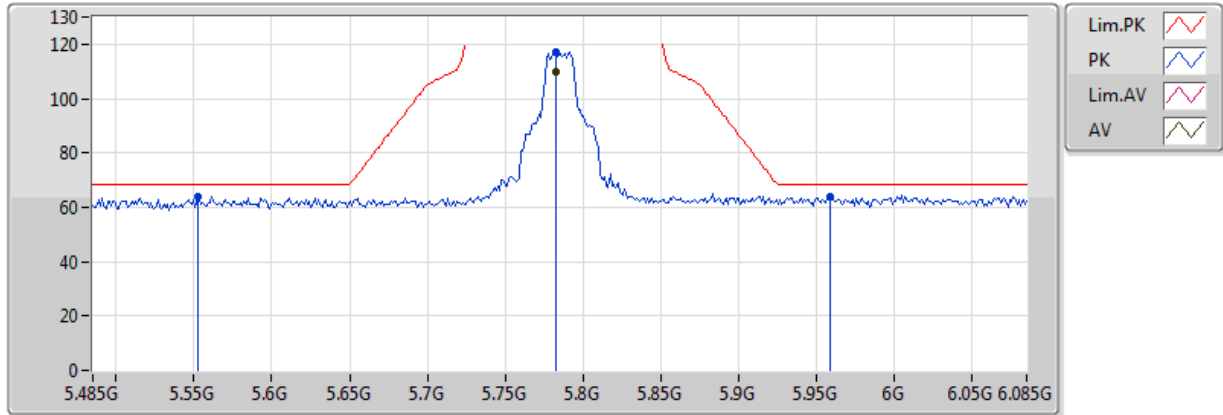


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.47938G	46.42	54.00	-7.58	15.96	3	Horizontal	317	1.49	-	30.46	39.58	11.85	35.48
PK	11.49024G	55.40	74.00	-18.60	15.94	3	Horizontal	317	1.49	-	39.46	39.56	11.86	35.48

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

08/01/2018

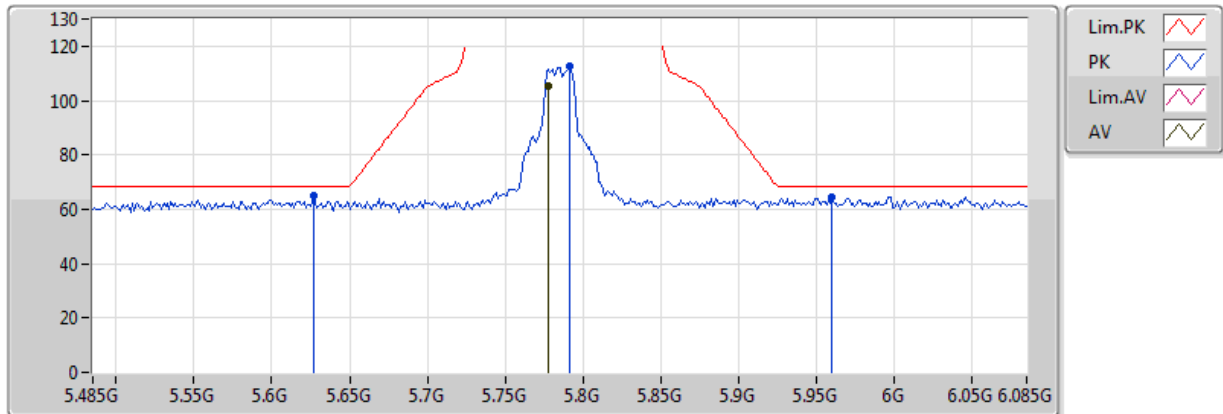


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7826G	110.00	Inf	-Inf	5.98	3	Vertical	358	1.50	-	104.03	32.24	8.93	35.19
PK	5.5522G	63.90	68.20	-4.30	5.39	3	Vertical	358	1.50	-	58.51	31.96	8.60	35.18
PK	5.7826G	117.25	Inf	-Inf	5.98	3	Vertical	358	1.50	-	111.28	32.24	8.93	35.19
PK	5.959G	64.10	68.20	-4.10	6.43	3	Vertical	358	1.50	-	57.67	32.45	9.17	35.20

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

08/01/2018

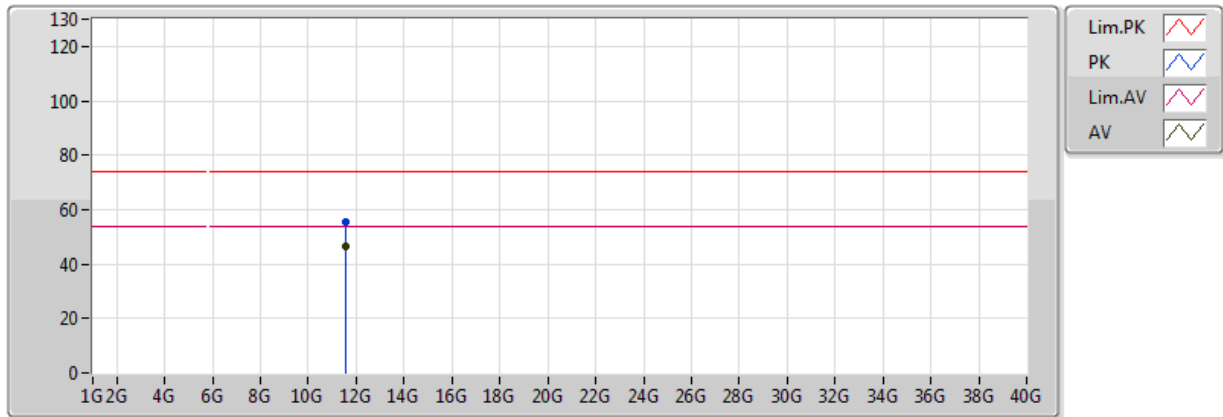


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7778G	105.37	Inf	-Inf	5.96	3	Horizontal	3	1.50	-	99.41	32.23	8.92	35.19
PK	5.6266G	65.21	68.20	-2.99	5.58	3	Horizontal	3	1.50	-	59.63	32.05	8.71	35.18
PK	5.791G	112.45	Inf	-Inf	6.00	3	Horizontal	3	1.50	-	106.45	32.25	8.94	35.19
PK	5.9602G	64.69	68.20	-3.51	6.43	3	Horizontal	3	1.50	-	58.26	32.45	9.17	35.20

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

08/01/2018

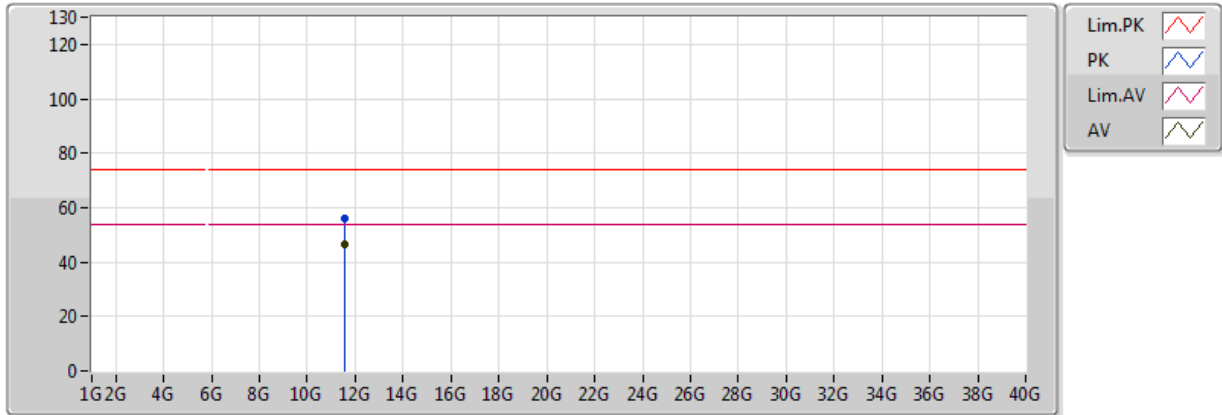


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57378G	46.41	54.00	-7.59	15.84	3	Vertical	237	1.48	-	30.57	39.44	11.89	35.49
PK	11.5667G	55.38	74.00	-18.62	15.84	3	Vertical	237	1.48	-	39.54	39.45	11.89	35.49

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_BF

08/01/2018

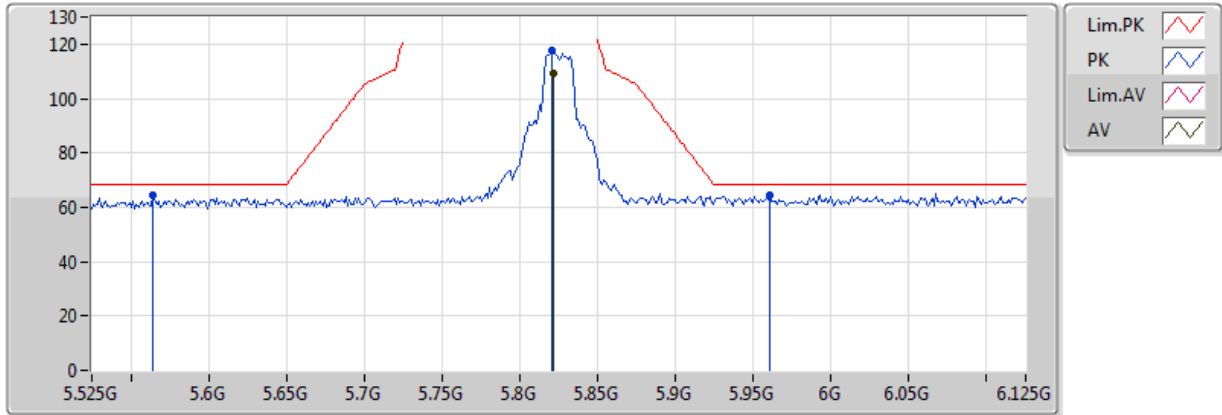


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57966G	46.37	54.00	-7.63	15.83	3	Horizontal	175	1.50	-	30.54	39.43	11.89	35.50
PK	11.57468G	56.23	74.00	-17.77	15.83	3	Horizontal	175	1.50	-	40.40	39.44	11.89	35.49

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

08/01/2018

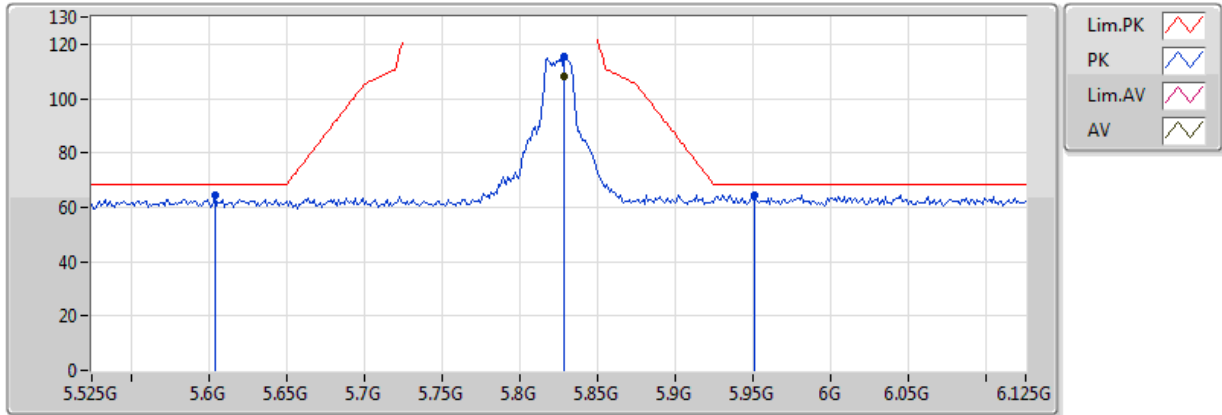


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8214G	109.12	Inf	-Inf	6.08	3	Vertical	6	1.50	-	103.04	32.29	8.98	35.19
PK	5.5646G	64.23	68.20	-3.97	5.42	3	Vertical	6	1.50	-	58.81	31.98	8.62	35.18
PK	5.8202G	117.83	Inf	-Inf	6.07	3	Vertical	6	1.50	-	111.76	32.28	8.98	35.19
PK	5.9606G	64.30	68.20	-3.90	6.43	3	Vertical	6	1.50	-	57.87	32.45	9.17	35.20

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

08/01/2018

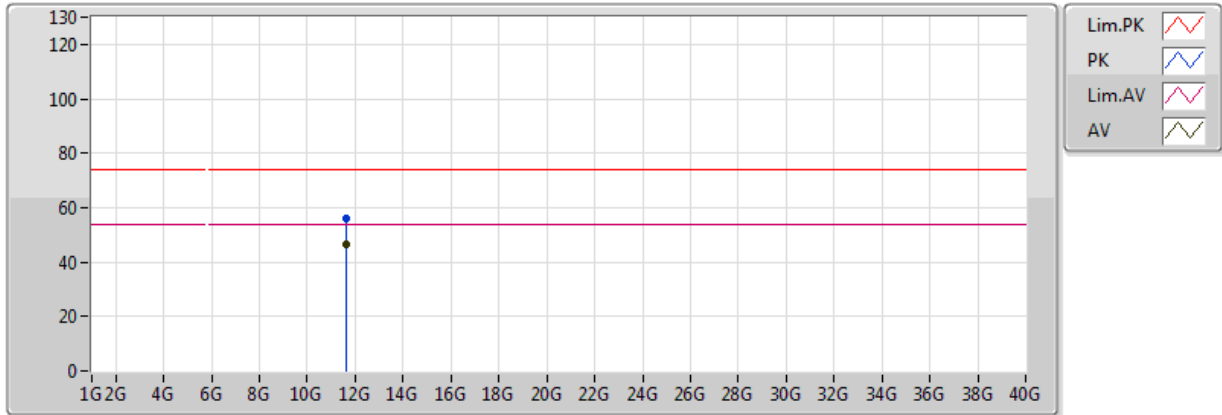


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8286G	108.11	Inf	-Inf	6.09	3	Horizontal	357	1.79	-	102.02	32.29	8.99	35.19
PK	5.6042G	64.27	68.20	-3.93	5.52	3	Horizontal	357	1.79	-	58.75	32.03	8.68	35.18
PK	5.8286G	115.19	Inf	-Inf	6.09	3	Horizontal	357	1.79	-	109.09	32.29	8.99	35.19
PK	5.951G	64.46	68.20	-3.74	6.41	3	Horizontal	357	1.79	-	58.06	32.44	9.16	35.20

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

08/01/2018

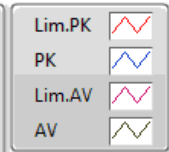
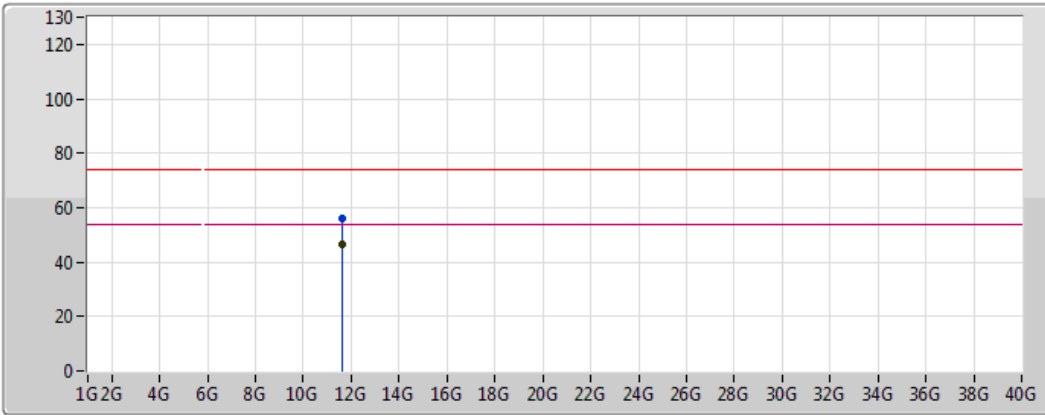


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65324G	46.47	54.00	-7.53	15.73	3	Vertical	256	1.51	-	30.74	39.32	11.92	35.51
PK	11.64946G	56.15	74.00	-17.85	15.74	3	Vertical	256	1.51	-	40.41	39.33	11.92	35.51

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_BF

08/01/2018

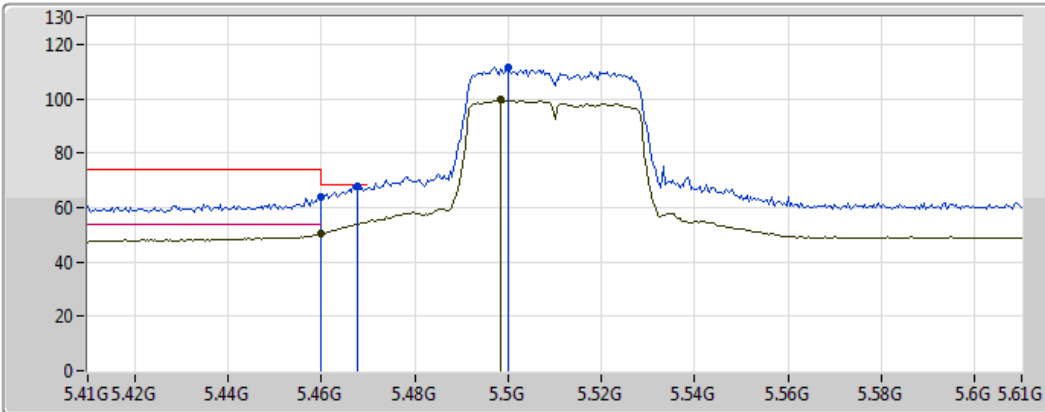


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.64814G	46.58	54.00	-7.42	15.74	3	Horizontal	330	1.59	-	30.84	39.33	11.92	35.51
PK	11.65438G	55.98	74.00	-18.02	15.73	3	Horizontal	330	1.59	-	40.24	39.32	11.92	35.51

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

04/01/2018

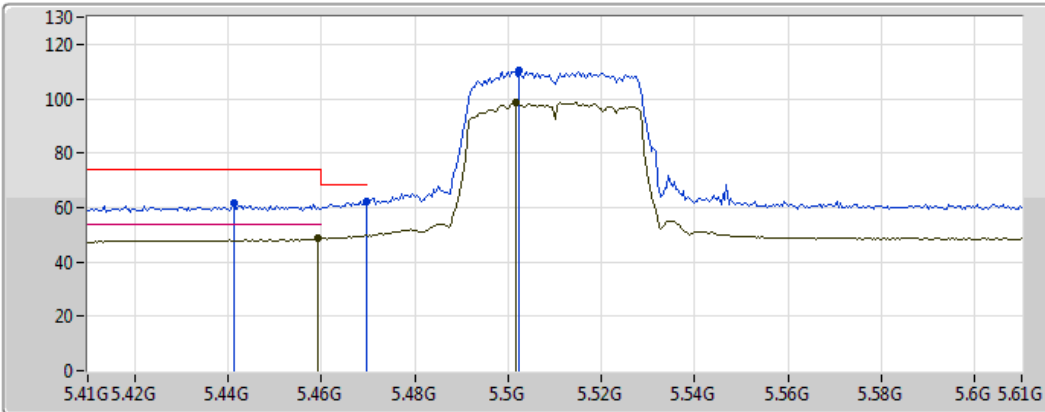


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.46G	50.25	54.00	-3.75	2.91	3	Vertical	4	1.62	-	47.34	31.78	5.67	34.54
AV	5.4984G	99.49	Inf	-Inf	2.93	3	Vertical	4	1.62	-	96.56	31.80	5.67	34.54
PK	5.46G	63.98	74.00	-10.02	2.91	3	Vertical	4	1.62	-	61.07	31.78	5.67	34.54
PK	5.4676G	67.90	68.20	-0.30	2.91	3	Vertical	4	1.62	-	64.99	31.79	5.67	34.54
PK	5.5G	111.62	Inf	-Inf	2.93	3	Vertical	4	1.62	-	108.69	31.80	5.67	34.54

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

04/01/2018

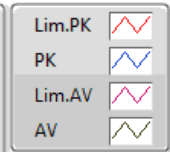
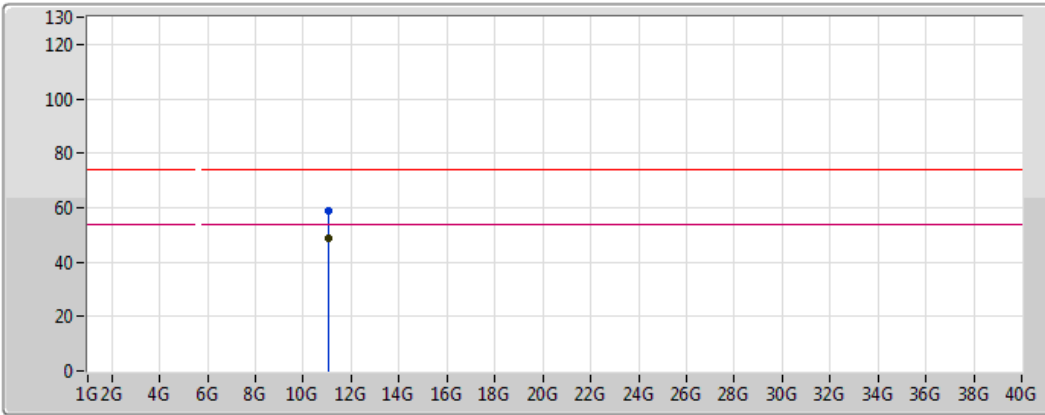


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4592G	48.58	54.00	-5.42	2.91	3	Horizontal	0	1.54	-	45.67	31.78	5.67	34.54
AV	5.5016G	98.77	Inf	-Inf	2.93	3	Horizontal	0	1.54	-	95.84	31.80	5.67	34.54
PK	5.4412G	61.39	74.00	-12.61	2.90	3	Horizontal	0	1.54	-	58.49	31.78	5.66	34.54
PK	5.4696G	62.44	68.20	-5.76	2.91	3	Horizontal	0	1.54	-	59.52	31.79	5.67	34.54
PK	5.5024G	110.57	Inf	-Inf	2.93	3	Horizontal	0	1.54	-	107.64	31.80	5.67	34.54

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

05/01/2018

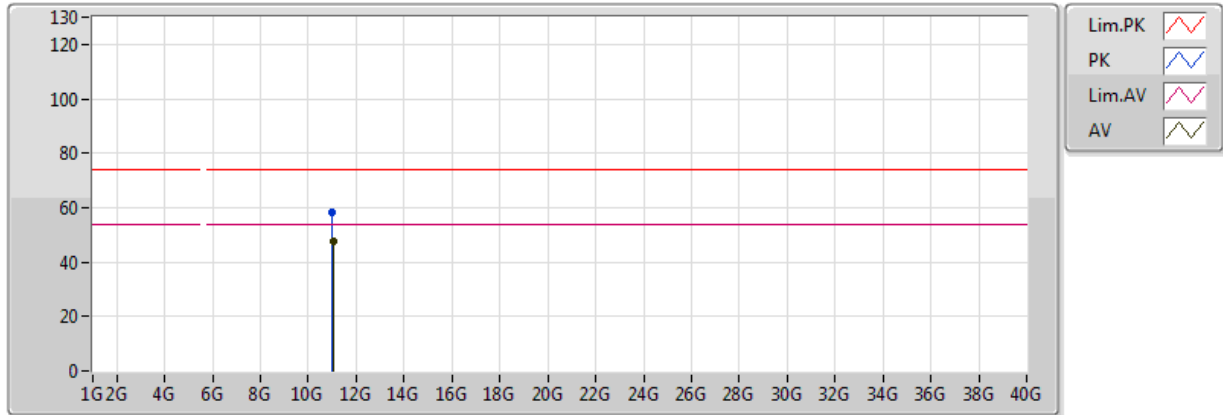


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.03416G	48.67	54.00	-5.33	16.53	3	Vertical	354	1.63	-	32.15	40.25	11.66	35.39
PK	11.0269G	58.80	74.00	-15.20	16.54	3	Vertical	354	1.63	-	42.27	40.26	11.66	35.39

802.11ac VHT40_Nss1,(MCS0)_4TX

5510MHz_BF

05/01/2018

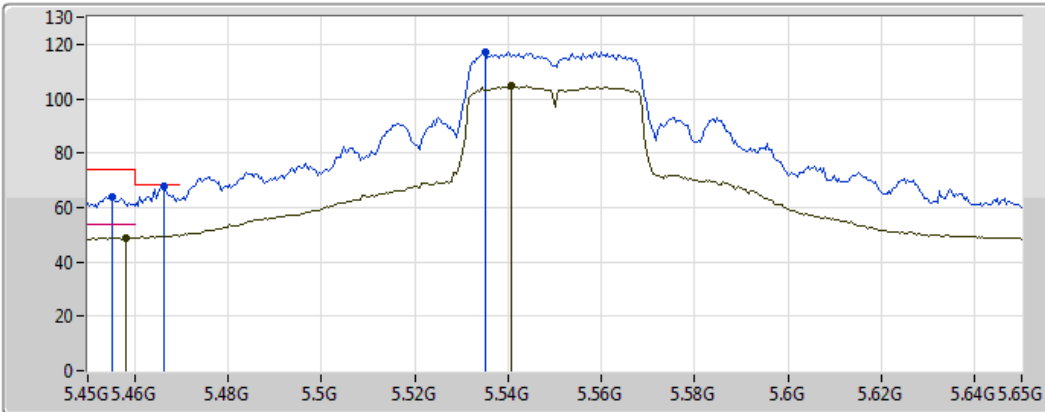


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.03236G	47.90	54.00	-6.10	16.53	3	Horizontal	41	2.07	-	31.38	40.25	11.66	35.39
PK	11.00614G	58.22	74.00	-15.78	16.56	3	Horizontal	41	2.07	-	41.66	40.29	11.65	35.38

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

04/01/2018

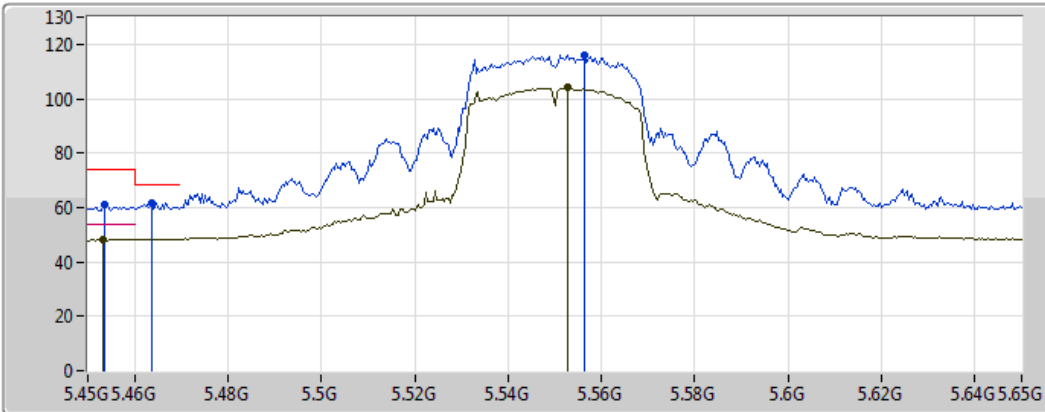


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.458G	48.81	54.00	-5.19	2.91	3	Vertical	4	1.50	-	45.90	31.78	5.67	34.54
AV	5.5408G	104.57	Inf	-Inf	3.01	3	Vertical	4	1.50	-	101.56	31.87	5.70	34.55
PK	5.4552G	63.91	74.00	-10.09	2.91	3	Vertical	4	1.50	-	61.00	31.78	5.67	34.54
PK	5.4664G	67.61	68.20	-0.59	2.91	3	Vertical	4	1.50	-	64.70	31.79	5.67	34.54
PK	5.5352G	117.12	Inf	-Inf	3.00	3	Vertical	4	1.50	-	114.12	31.86	5.69	34.55

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

04/01/2018

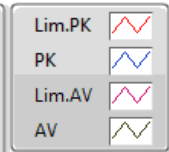
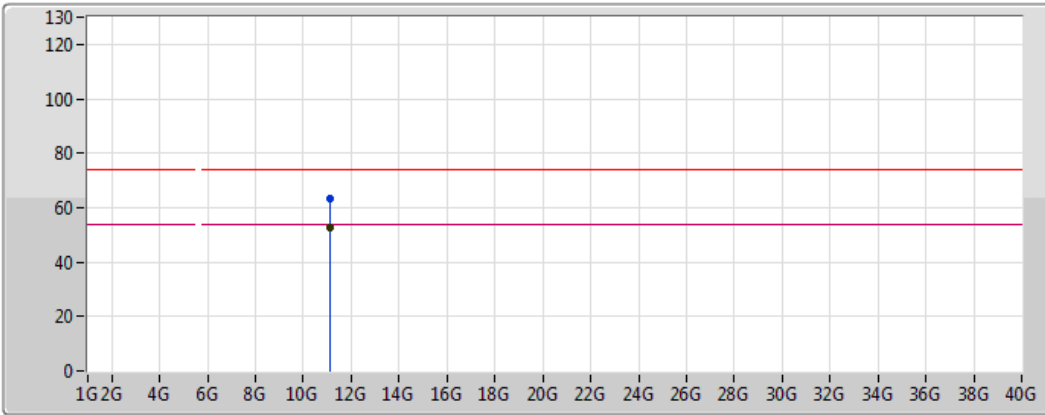


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4532G	48.33	54.00	-5.67	2.91	3	Horizontal	0	1.54	-	45.42	31.78	5.67	34.54
AV	5.5528G	104.02	Inf	-Inf	3.04	3	Horizontal	0	1.54	-	100.99	31.88	5.71	34.56
PK	5.4536G	61.02	74.00	-12.98	2.91	3	Horizontal	0	1.54	-	58.12	31.78	5.67	34.54
PK	5.4636G	61.68	68.20	-6.52	2.91	3	Horizontal	0	1.54	-	58.77	31.79	5.67	34.54
PK	5.5564G	115.91	Inf	-Inf	3.04	3	Horizontal	0	1.54	-	112.87	31.89	5.71	34.56

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

05/01/2018

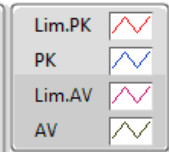
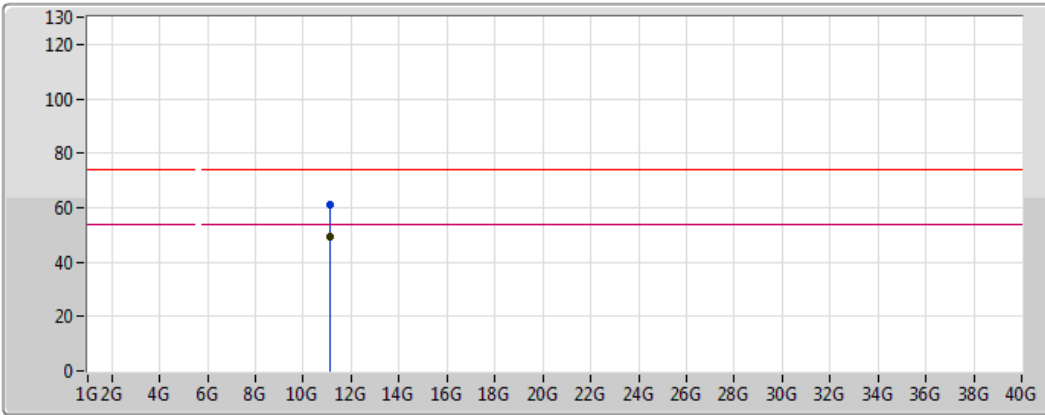


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.09796G	52.79	54.00	-1.21	16.44	3	Vertical	47	1.63	-	36.34	40.15	11.69	35.40
PK	11.10012G	63.15	74.00	-10.85	16.44	3	Vertical	47	1.63	-	46.71	40.15	11.69	35.40

802.11ac VHT40_Nss1,(MCS0)_4TX

5550MHz_BF

05/01/2018

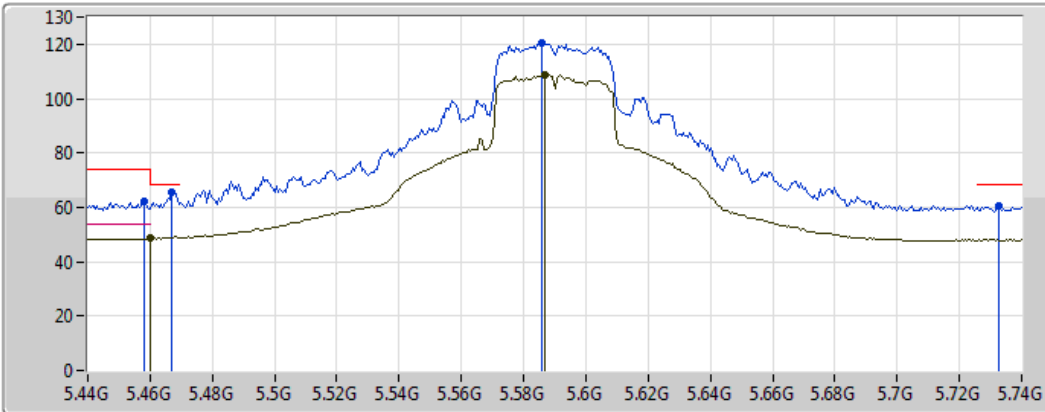


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.11104G	49.56	54.00	-4.44	16.43	3	Horizontal	342	1.50	-	33.13	40.13	11.70	35.40
PK	11.091G	60.81	74.00	-13.19	16.45	3	Horizontal	342	1.50	-	44.35	40.16	11.69	35.40

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

04/01/2018

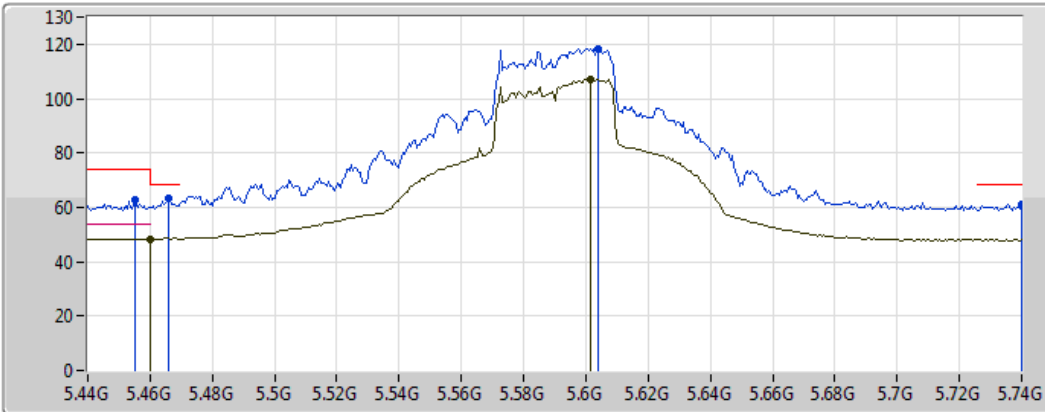


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459995G	48.66	54.00	-5.34	2.91	3	Vertical	5	1.61	-	45.75	31.78	5.67	34.54
AV	5.587G	108.97	Inf	-Inf	3.10	3	Vertical	5	1.61	-	105.86	31.94	5.73	34.57
PK	5.458G	62.05	74.00	-11.95	2.91	3	Vertical	5	1.61	-	59.14	31.78	5.67	34.54
PK	5.467G	65.73	68.20	-2.47	2.91	3	Vertical	5	1.61	-	62.82	31.79	5.67	34.54
PK	5.7328G	60.28	68.20	-7.92	3.40	3	Vertical	5	1.61	-	56.88	32.17	5.84	34.61
PK	5.5858G	120.26	Inf	-Inf	3.10	3	Vertical	5	1.61	-	117.15	31.94	5.73	34.57

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

04/01/2018

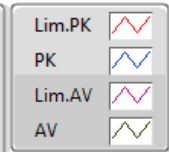
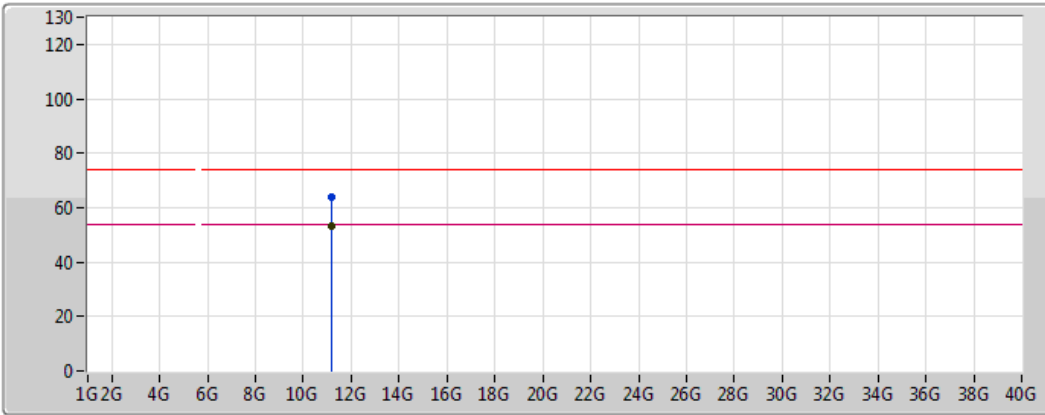


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459995G	48.33	54.00	-5.67	2.91	3	Horizontal	8	1.50	-	45.42	31.78	5.67	34.54
AV	5.6014G	107.25	Inf	-Inf	3.13	3	Horizontal	8	1.50	-	104.12	31.96	5.74	34.57
PK	5.455G	62.52	74.00	-11.48	2.91	3	Horizontal	8	1.50	-	59.61	31.78	5.67	34.54
PK	5.4658G	63.21	68.20	-4.99	2.91	3	Horizontal	8	1.50	-	60.29	31.79	5.67	34.54
PK	5.74G	60.93	68.20	-7.27	3.42	3	Horizontal	8	1.50	-	57.51	32.18	5.84	34.61
PK	5.6038G	118.39	Inf	-Inf	3.14	3	Horizontal	8	1.50	-	115.25	31.97	5.74	34.57

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

05/01/2018

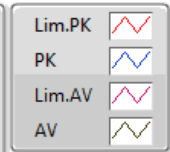
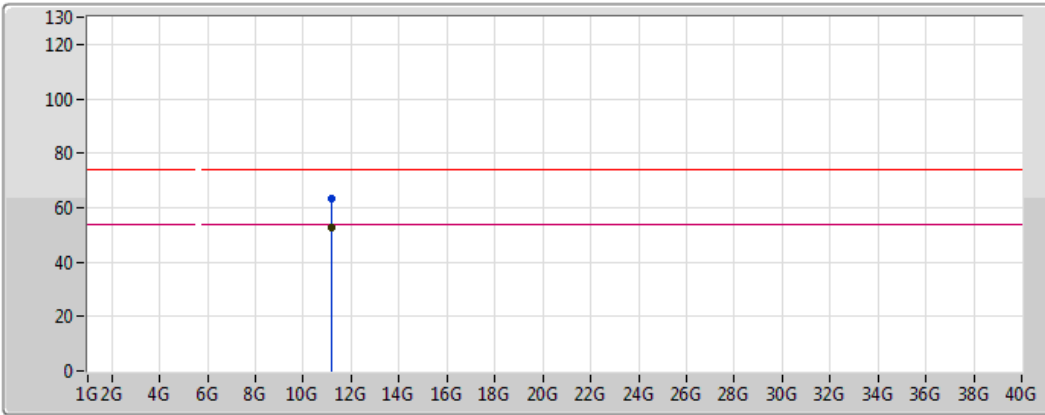


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.195G	53.04	54.00	-0.96	16.32	3	Vertical	355	1.50	-	36.72	40.01	11.73	35.42
PK	11.17454G	63.71	74.00	-10.29	16.35	3	Vertical	355	1.50	-	47.37	40.04	11.72	35.41

802.11ac VHT40_Nss1,(MCS0)_4TX

5590MHz_BF

05/01/2018

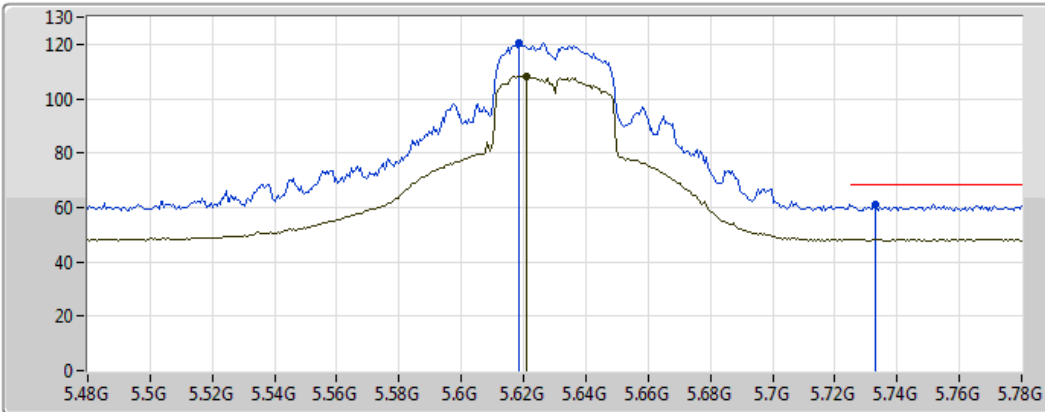


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.16698G	52.81	54.00	-1.19	16.36	3	Horizontal	27	1.67	-	36.46	40.05	11.72	35.41
PK	11.16632G	63.23	74.00	-10.77	16.36	3	Horizontal	27	1.67	-	46.88	40.05	11.72	35.41

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

04/01/2018

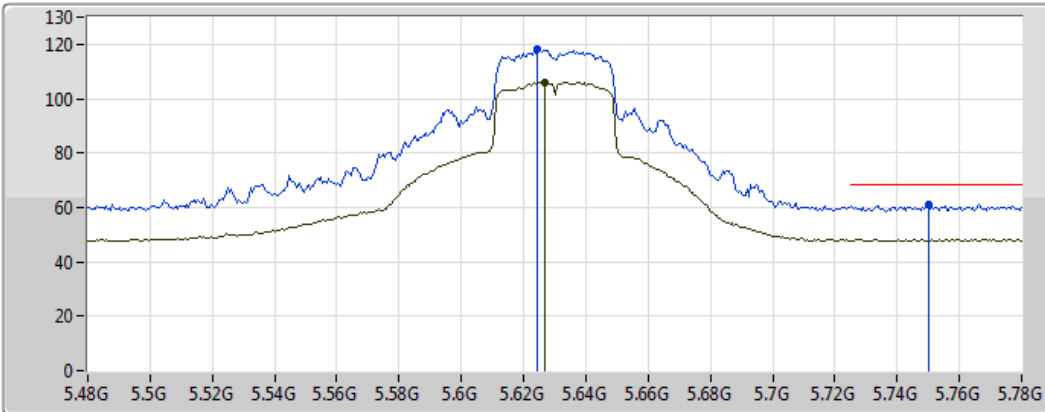


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.621G	108.27	Inf	-Inf	3.17	3	Vertical	4	1.58	-	105.10	31.99	5.75	34.58
PK	5.7332G	60.96	68.20	-7.24	3.40	3	Vertical	4	1.58	-	57.56	32.17	5.84	34.61
PK	5.6186G	120.50	Inf	-Inf	3.17	3	Vertical	4	1.58	-	117.34	31.99	5.75	34.58

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

04/01/2018

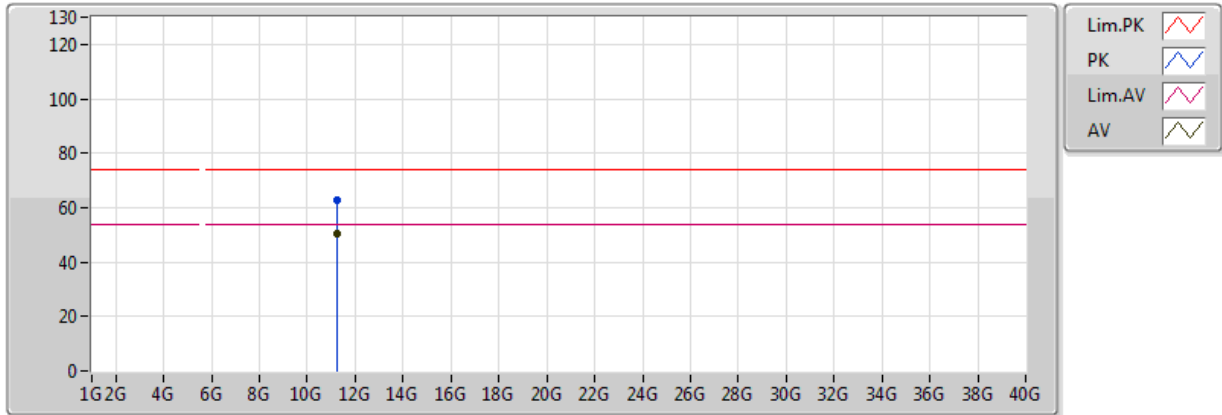


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.627G	106.01	Inf	-Inf	3.18	3	Horizontal	1	1.64	-	102.82	32.00	5.76	34.58
PK	5.75G	61.26	68.20	-6.94	3.44	3	Horizontal	1	1.64	-	57.82	32.20	5.85	34.61
PK	5.6246G	118.40	Inf	-Inf	3.18	3	Horizontal	1	1.64	-	115.22	32.00	5.76	34.58

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

05/01/2018

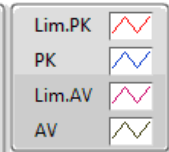
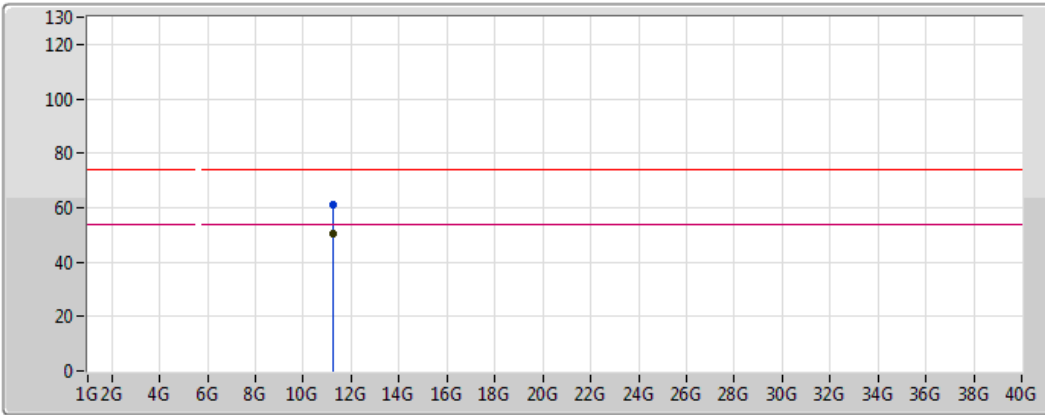


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.2474G	50.42	54.00	-3.58	16.25	3	Vertical	357	1.50	-	34.16	39.93	11.75	35.43
PK	11.25562G	63.03	74.00	-10.97	16.24	3	Vertical	357	1.50	-	46.79	39.92	11.76	35.43

802.11ac VHT40_Nss1,(MCS0)_4TX

5630MHz_BF

05/01/2018

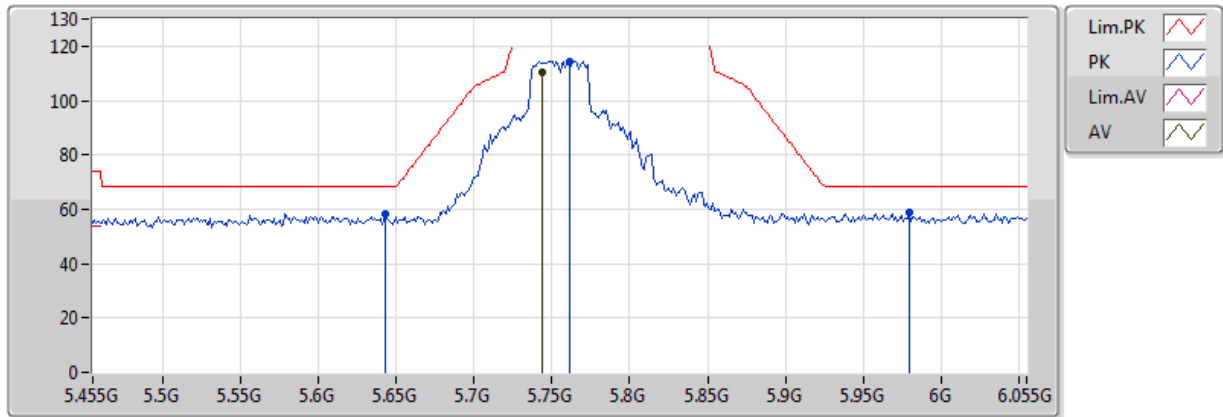


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.26834G	50.45	54.00	-3.55	16.23	3	Horizontal	336	1.50	-	34.22	39.90	11.76	35.43
PK	11.25886G	61.26	74.00	-12.74	16.24	3	Horizontal	336	1.50	-	45.03	39.91	11.76	35.43

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

08/01/2018

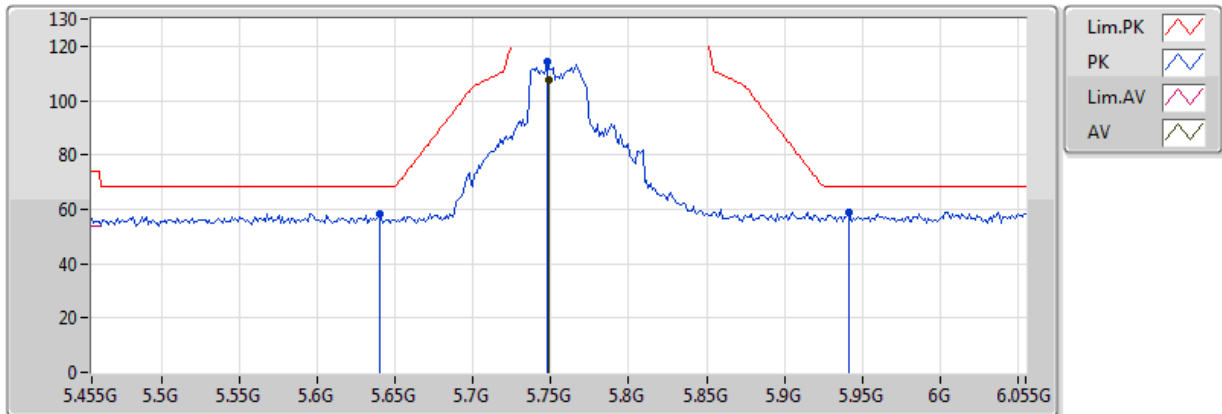


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7442G	110.43	Inf	-Inf	5.88	3	Vertical	357	1.51	-	104.55	32.19	8.87	35.18
PK	5.6434G	58.04	68.20	-10.16	5.62	3	Vertical	357	1.51	-	52.41	32.07	8.73	35.18
PK	5.761G	114.53	Inf	-Inf	5.92	3	Vertical	357	1.51	-	108.61	32.21	8.90	35.19
PK	5.9794G	58.81	68.20	-9.39	6.48	3	Vertical	357	1.51	-	52.34	32.48	9.20	35.20

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

08/01/2018

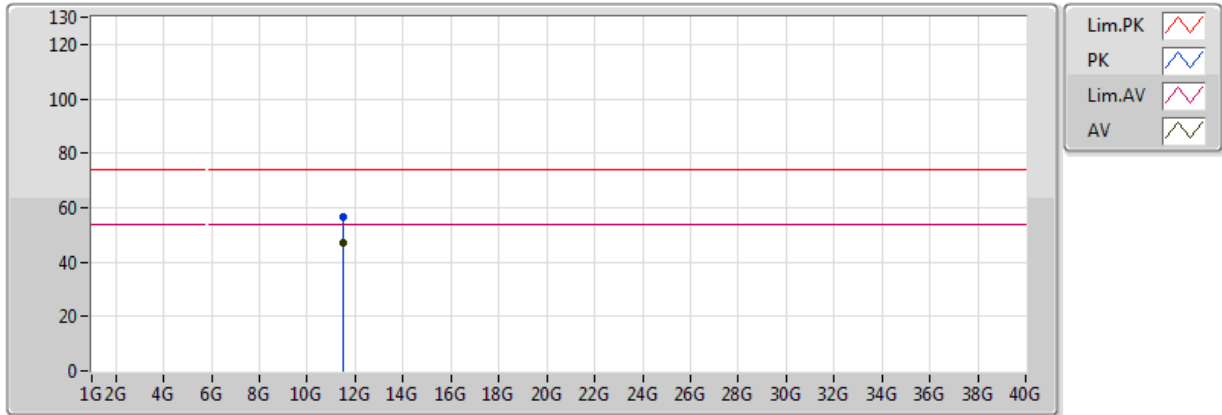


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.749G	107.38	Inf	-Inf	5.89	3	Horizontal	359	1.49	-	101.49	32.20	8.88	35.18
PK	5.6398G	58.23	68.20	-9.97	5.61	3	Horizontal	359	1.49	-	52.62	32.07	8.73	35.18
PK	5.7478G	114.48	Inf	-Inf	5.89	3	Horizontal	359	1.49	-	108.60	32.20	8.88	35.18
PK	5.941G	58.95	68.20	-9.25	6.38	3	Horizontal	359	1.49	-	52.57	32.43	9.15	35.19

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

08/01/2018

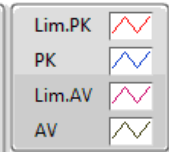
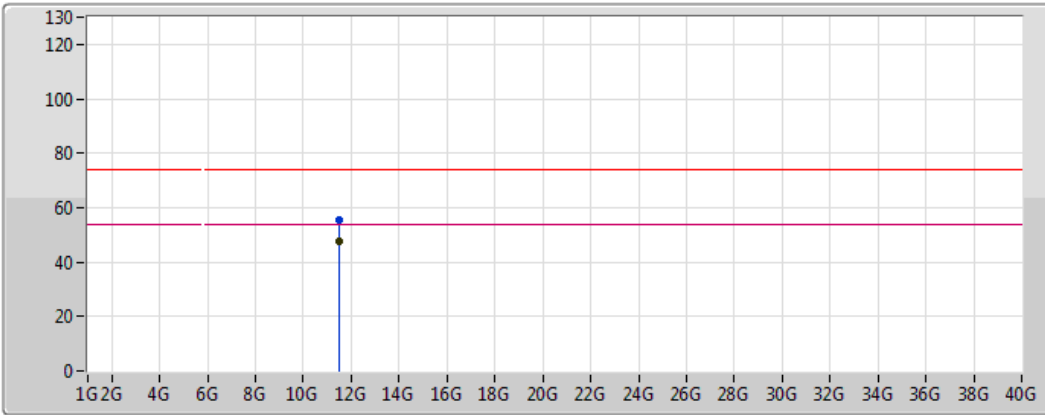


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.50112G	47.06	54.00	-6.94	15.93	3	Vertical	318	1.50	-	31.13	39.55	11.86	35.48
PK	11.50154G	56.36	74.00	-17.64	15.93	3	Vertical	318	1.50	-	40.43	39.55	11.86	35.48

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_BF

08/01/2018

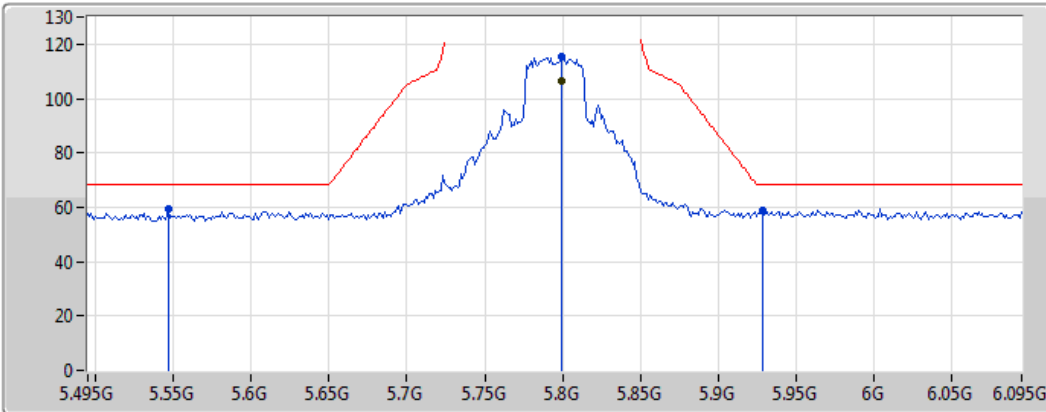


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.51024G	47.39	54.00	-6.61	15.92	3	Horizontal	357	1.50	-	31.47	39.53	11.86	35.48
PK	11.51018G	55.64	74.00	-18.36	15.92	3	Horizontal	357	1.50	-	39.72	39.53	11.86	35.48

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

08/01/2018

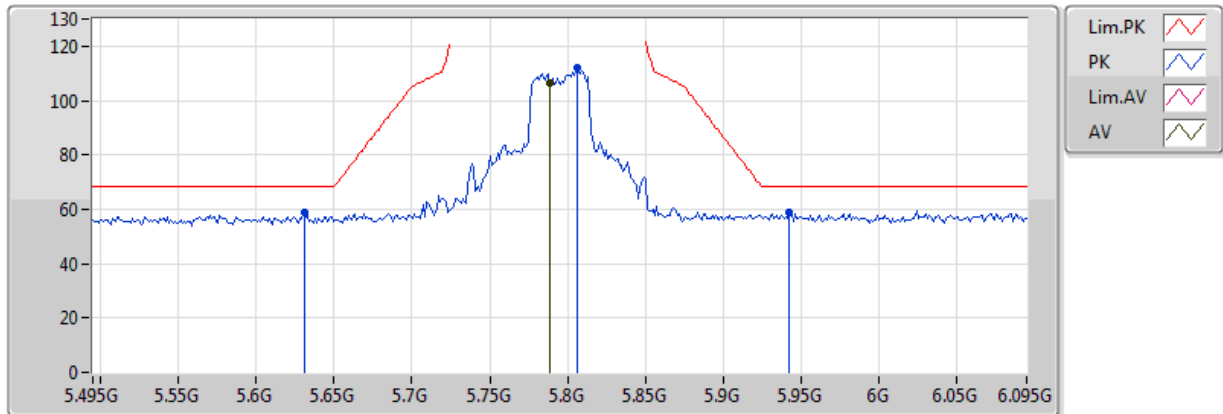


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7998G	106.48	Inf	-Inf	6.02	3	Vertical	359	1.50	-	100.46	32.26	8.95	35.19
PK	5.5466G	59.46	68.20	-8.74	5.38	3	Vertical	359	1.50	-	54.09	31.96	8.60	35.17
PK	5.7998G	115.41	Inf	-Inf	6.02	3	Vertical	359	1.50	-	109.40	32.26	8.95	35.19
PK	5.9282G	58.77	68.20	-9.43	6.35	3	Vertical	359	1.50	-	52.42	32.41	9.13	35.19

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

08/01/2018

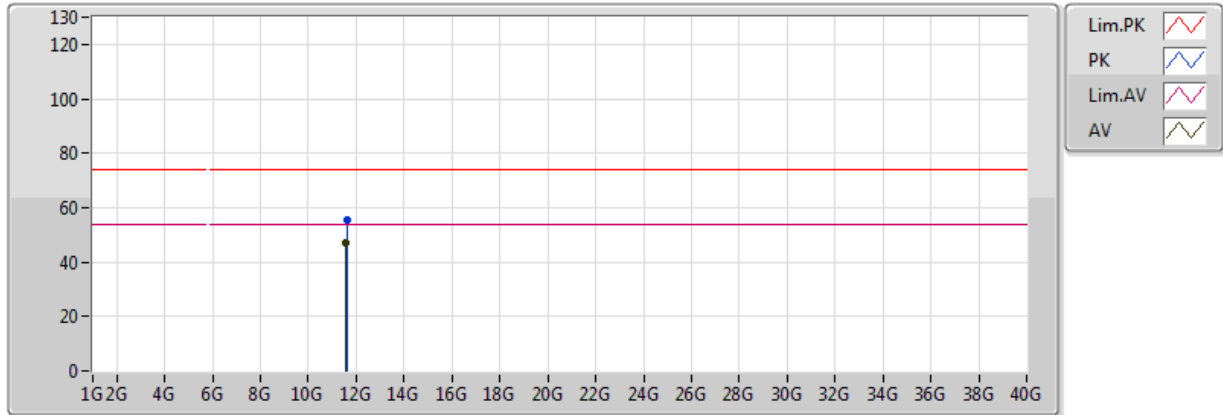


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.789G	106.69	Inf	-Inf	5.99	3	Horizontal	358	1.49	-	100.69	32.25	8.93	35.19
PK	5.6306G	58.71	68.20	-9.49	5.59	3	Horizontal	358	1.49	-	53.12	32.06	8.71	35.18
PK	5.8058G	111.81	Inf	-Inf	6.04	3	Horizontal	358	1.49	-	105.77	32.27	8.96	35.19
PK	5.9426G	58.63	68.20	-9.57	6.39	3	Horizontal	358	1.49	-	52.24	32.43	9.15	35.19

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

08/01/2018

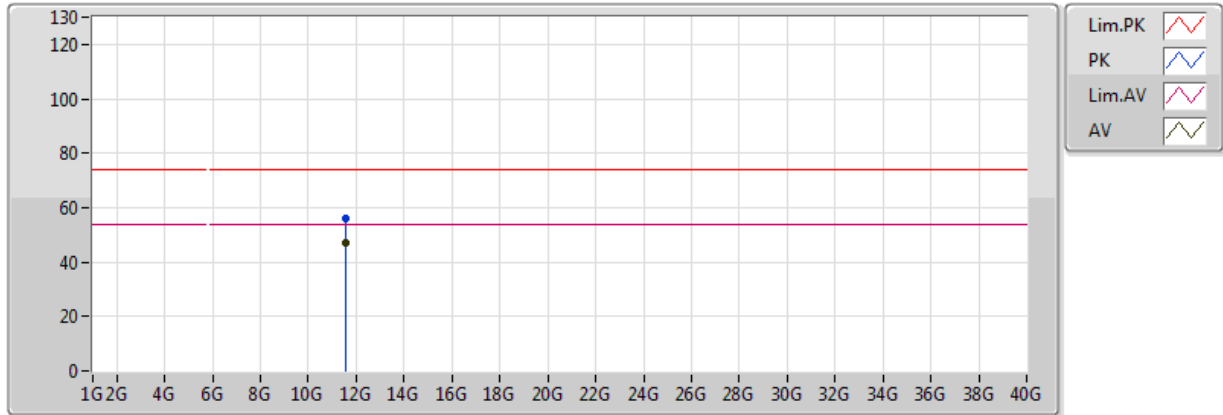


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.58646G	46.80	54.00	-7.20	15.82	3	Vertical	3	1.58	-	30.98	39.42	11.90	35.50
PK	11.5942G	55.43	74.00	-18.57	15.81	3	Vertical	3	1.58	-	39.62	39.41	11.90	35.50

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_BF

08/01/2018

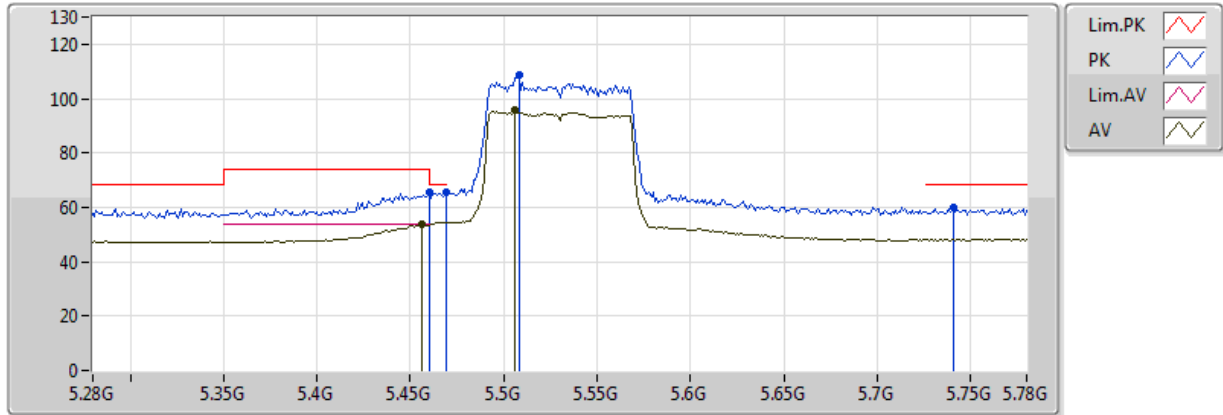


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.58934G	46.88	54.00	-7.12	15.82	3	Horizontal	317	1.52	-	31.07	39.42	11.90	35.50
PK	11.5843G	56.25	74.00	-17.75	15.82	3	Horizontal	317	1.52	-	40.43	39.42	11.90	35.50

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

10/01/2018

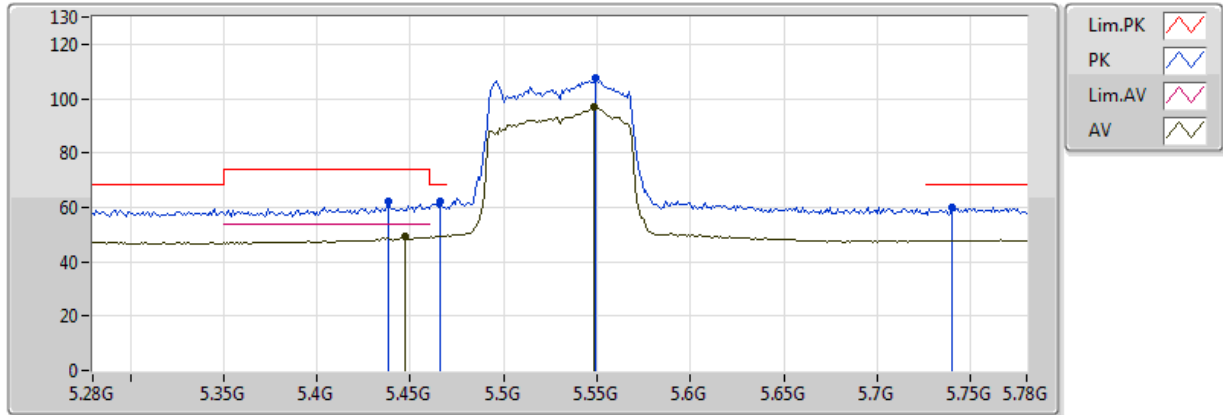


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.456G	53.56	54.00	-0.44	2.91	3	Vertical	4	1.61	-	50.65	31.78	5.67	34.54
AV	5.506G	95.93	Inf	-Inf	2.94	3	Vertical	4	1.61	-	92.98	31.81	5.67	34.54
PK	5.46G	65.40	74.00	-8.60	2.91	3	Vertical	4	1.61	-	62.49	31.78	5.67	34.54
PK	5.469G	65.53	68.20	-2.67	2.91	3	Vertical	4	1.61	-	62.62	31.79	5.67	34.54
PK	5.741G	60.18	68.20	-8.02	3.42	3	Vertical	4	1.61	-	56.76	32.19	5.84	34.61
PK	5.508G	108.89	Inf	-Inf	2.95	3	Vertical	4	1.61	-	105.95	31.81	5.68	34.54

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

10/01/2018

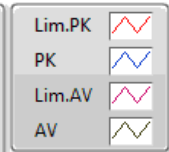
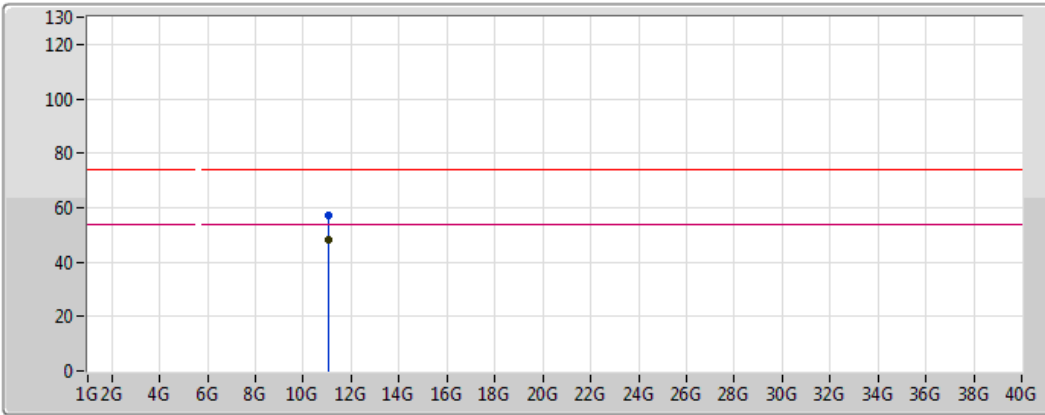


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.447G	49.09	54.00	-4.91	2.90	3	Horizontal	0	1.55	-	46.18	31.78	5.66	34.54
AV	5.548G	96.74	Inf	-Inf	3.03	3	Horizontal	0	1.55	-	93.71	31.88	5.70	34.55
PK	5.438G	61.92	74.00	-12.08	2.90	3	Horizontal	0	1.55	-	59.02	31.78	5.66	34.54
PK	5.466G	62.47	68.20	-5.73	2.91	3	Horizontal	0	1.55	-	59.56	31.79	5.67	34.54
PK	5.549G	107.58	Inf	-Inf	3.03	3	Horizontal	0	1.55	-	104.55	31.88	5.70	34.55
PK	5.74G	59.77	68.20	-8.43	3.42	3	Horizontal	0	1.55	-	56.35	32.18	5.84	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

05/01/2018

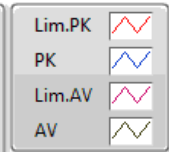
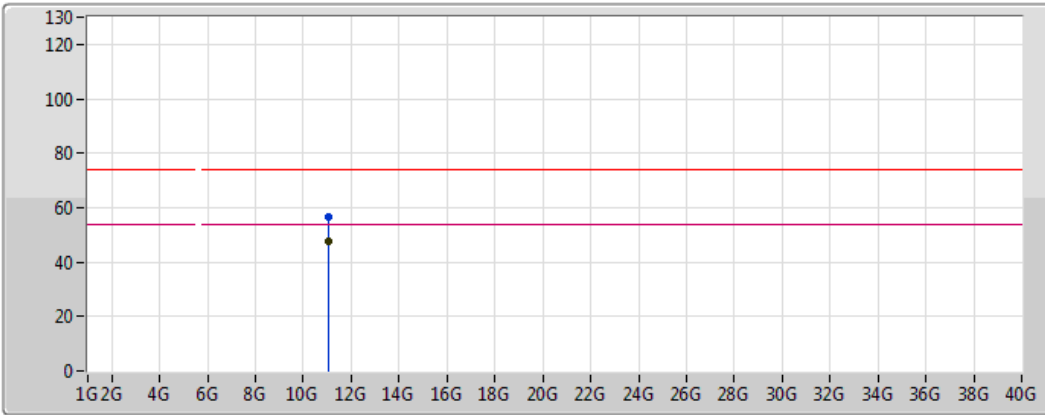


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.07404G	48.33	54.00	-5.67	16.48	3	Vertical	1	2.09	-	31.86	40.19	11.68	35.39
PK	11.0627G	57.09	74.00	-16.91	16.49	3	Vertical	1	2.09	-	40.60	40.21	11.68	35.39

802.11ac VHT80_Nss1,(MCS0)_4TX

5530MHz_BF

05/01/2018

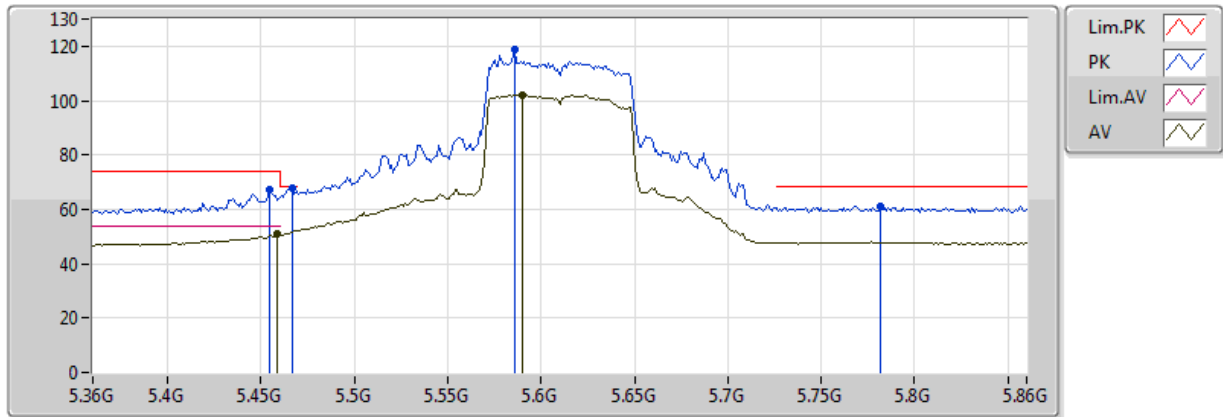


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.07008G	47.88	54.00	-6.12	16.48	3	Horizontal	298	1.50	-	31.40	40.19	11.68	35.39
PK	11.04734G	56.51	74.00	-17.49	16.51	3	Horizontal	298	1.50	-	40.00	40.23	11.67	35.39

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

05/01/2018

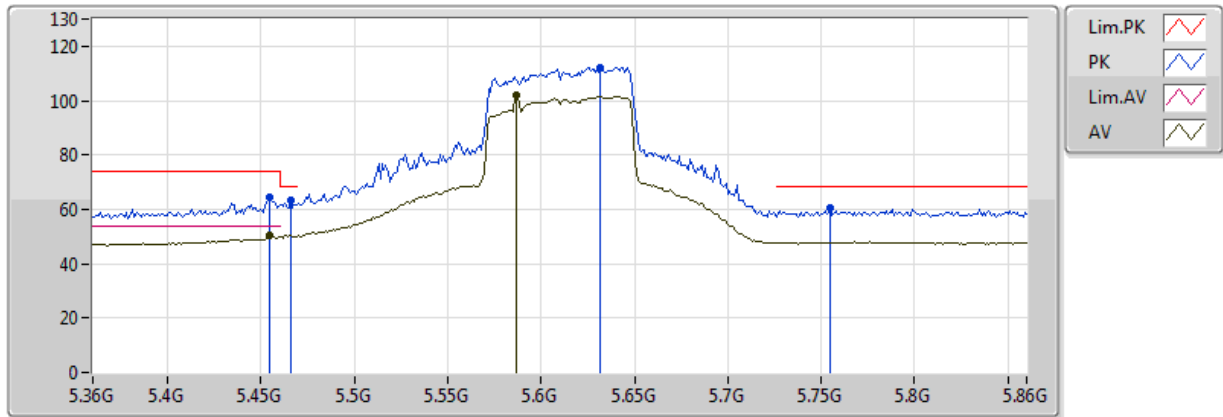


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459G	50.79	54.00	-3.21	2.91	3	Vertical	6	1.56	-	47.88	31.78	5.67	34.54
AV	5.59G	102.24	Inf	-Inf	3.11	3	Vertical	6	1.56	-	99.13	31.94	5.73	34.57
PK	5.455G	67.05	74.00	-6.95	2.91	3	Vertical	6	1.56	-	64.14	31.78	5.67	34.54
PK	5.467G	67.59	68.20	-0.61	2.91	3	Vertical	6	1.56	-	64.68	31.79	5.67	34.54
PK	5.586G	118.77	Inf	-Inf	3.10	3	Vertical	6	1.56	-	115.67	31.94	5.73	34.57
PK	5.782G	61.19	68.20	-7.01	3.51	3	Vertical	6	1.56	-	57.68	32.25	5.88	34.62

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

05/01/2018

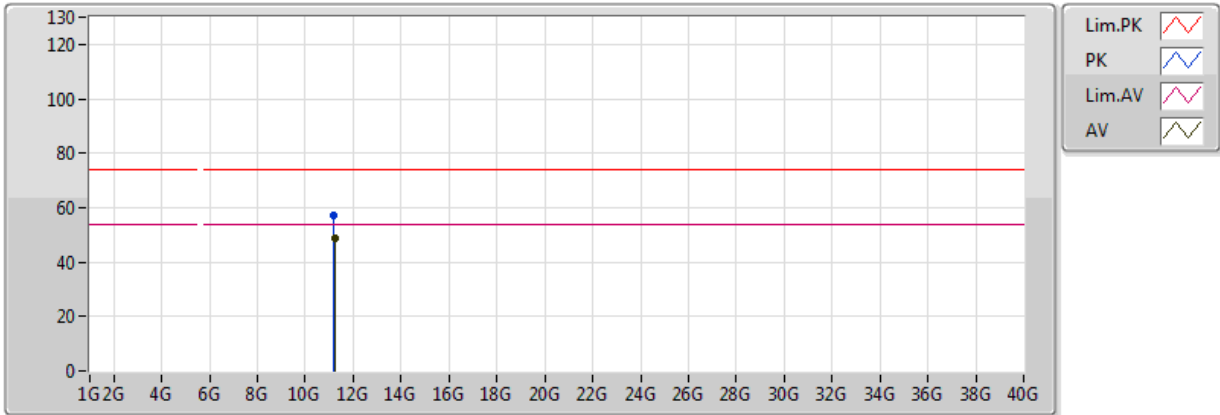


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.455G	50.23	54.00	-3.77	2.91	3	Horizontal	2	1.56	-	47.32	31.78	5.67	34.54
AV	5.587G	102.03	Inf	-Inf	3.10	3	Horizontal	2	1.56	-	98.93	31.94	5.73	34.57
PK	5.455G	64.63	74.00	-9.37	2.91	3	Horizontal	2	1.56	-	61.72	31.78	5.67	34.54
PK	5.466G	63.26	68.20	-4.94	2.91	3	Horizontal	2	1.56	-	60.35	31.79	5.67	34.54
PK	5.632G	112.29	Inf	-Inf	3.19	3	Horizontal	2	1.56	-	109.10	32.01	5.76	34.58
PK	5.755G	60.65	68.20	-7.55	3.45	3	Horizontal	2	1.56	-	57.20	32.21	5.85	34.61

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

05/01/2018

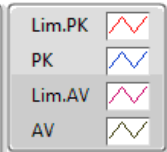
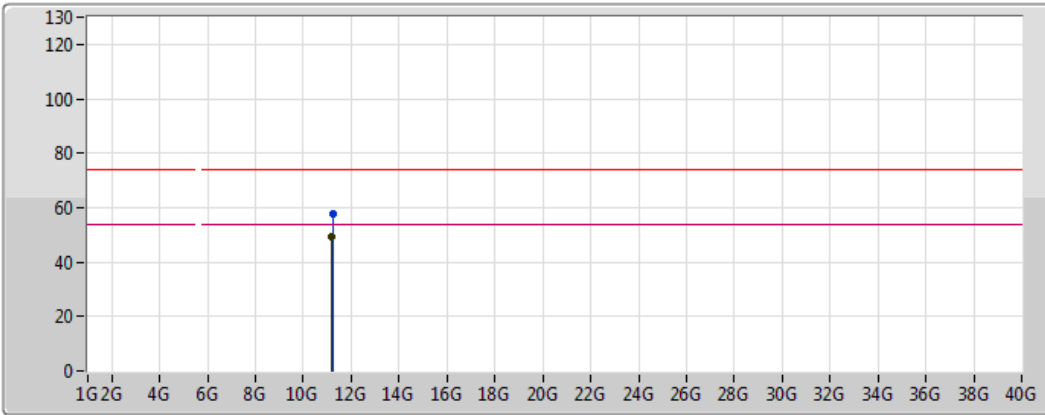


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.23398G	49.03	54.00	-4.97	16.27	3	Vertical	3	1.50	-	32.76	39.95	11.75	35.43
PK	11.20968G	57.28	74.00	-16.72	16.30	3	Vertical	3	1.50	-	40.98	39.99	11.74	35.42

802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz_BF

05/01/2018

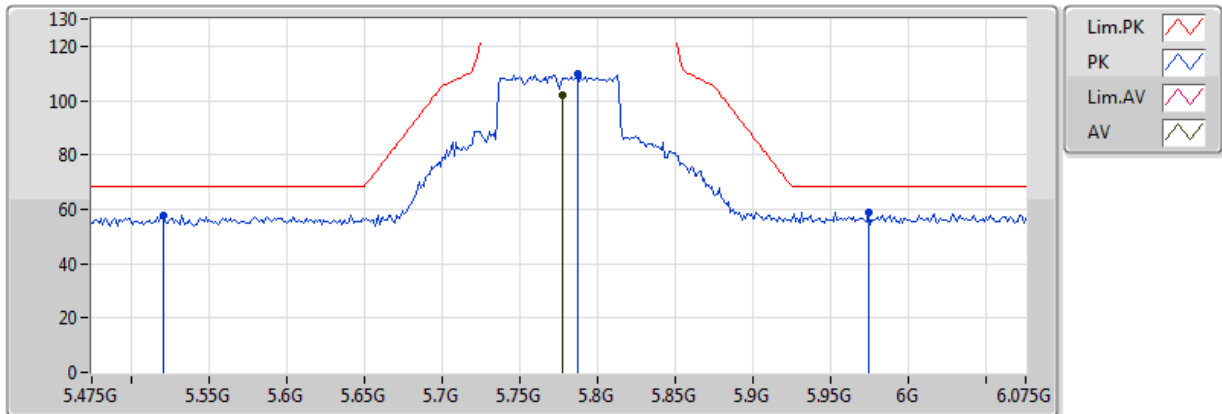


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.20818G	49.54	54.00	-4.46	16.30	3	Horizontal	355	1.39	-	33.24	39.99	11.74	35.42
PK	11.23122G	57.48	74.00	-16.52	16.27	3	Horizontal	355	1.39	-	41.20	39.95	11.75	35.43

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

08/01/2018

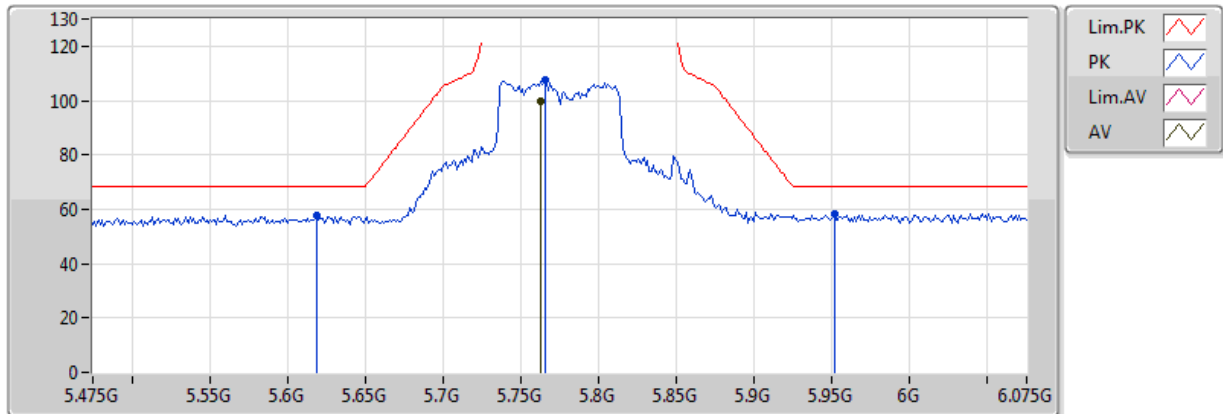


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7774G	102.05	Inf	-Inf	5.96	3	Vertical	358	1.50	-	96.09	32.23	8.92	35.19
PK	5.5206G	57.89	68.20	-10.31	5.31	3	Vertical	358	1.50	-	52.58	31.92	8.56	35.17
PK	5.787G	109.71	Inf	-Inf	5.99	3	Vertical	358	1.50	-	103.72	32.24	8.93	35.19
PK	5.9742G	58.84	68.20	-9.36	6.47	3	Vertical	358	1.50	-	52.38	32.47	9.19	35.20

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

08/01/2018

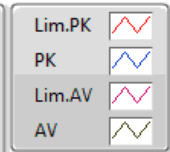
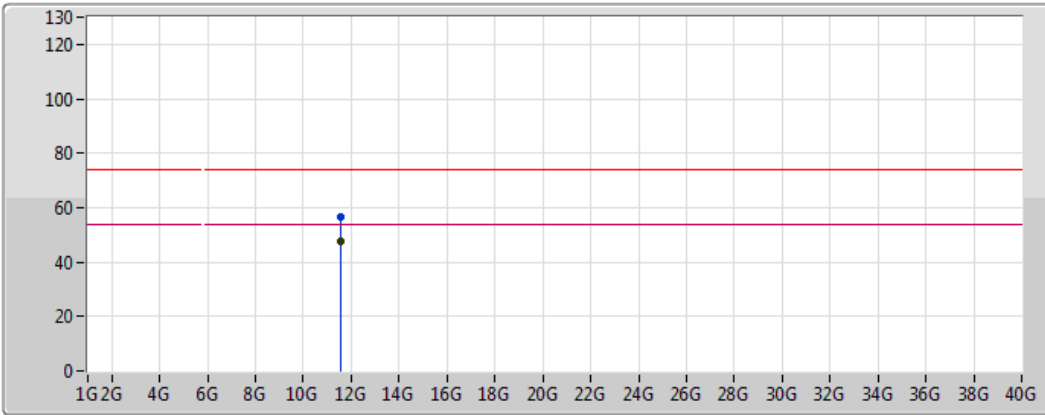


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.763G	99.81	Inf	-Inf	5.93	3	Horizontal	359	1.51	-	93.88	32.22	8.90	35.19
PK	5.619G	57.69	68.20	-10.51	5.56	3	Horizontal	359	1.51	-	52.13	32.04	8.70	35.18
PK	5.7654G	107.51	Inf	-Inf	5.93	3	Horizontal	359	1.51	-	101.57	32.22	8.90	35.19
PK	5.9514G	58.47	68.20	-9.73	6.41	3	Horizontal	359	1.51	-	52.06	32.44	9.16	35.20

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

08/01/2018

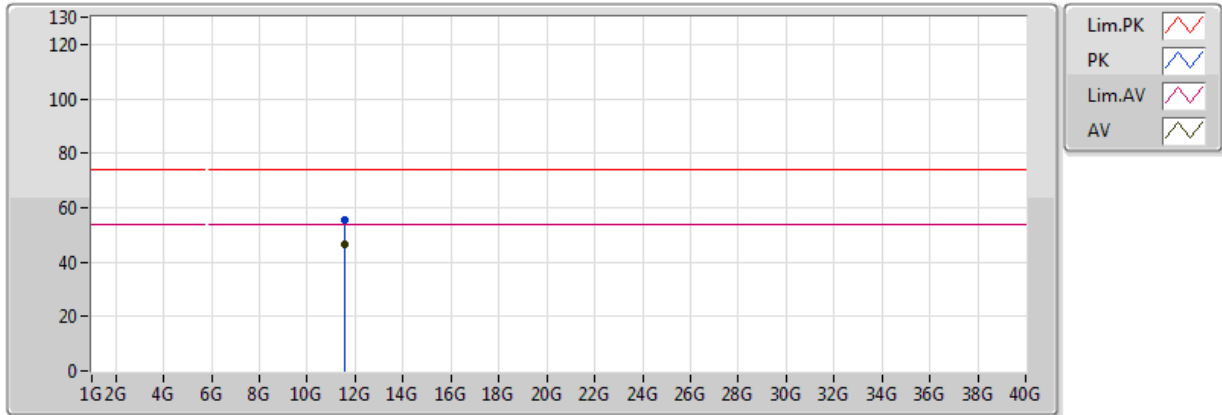


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.54484G	47.82	54.00	-6.18	15.87	3	Vertical	0	1.50	-	31.95	39.48	11.88	35.49
PK	11.54106G	56.38	74.00	-17.62	15.88	3	Vertical	0	1.50	-	40.50	39.49	11.88	35.49

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_BF

08/01/2018

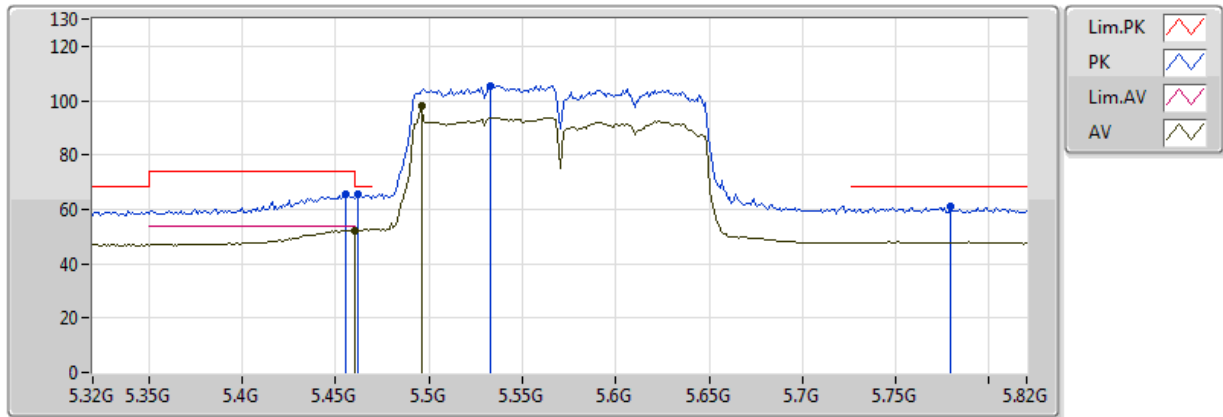


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.54106G	46.69	54.00	-7.31	15.88	3	Horizontal	360	1.50	-	30.81	39.49	11.88	35.49
PK	11.55978G	55.48	74.00	-18.52	15.85	3	Horizontal	360	1.50	-	39.63	39.46	11.89	35.49

802.11ac VHT80+80_Nss2,(MCS0)_4TX

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26/01/2018

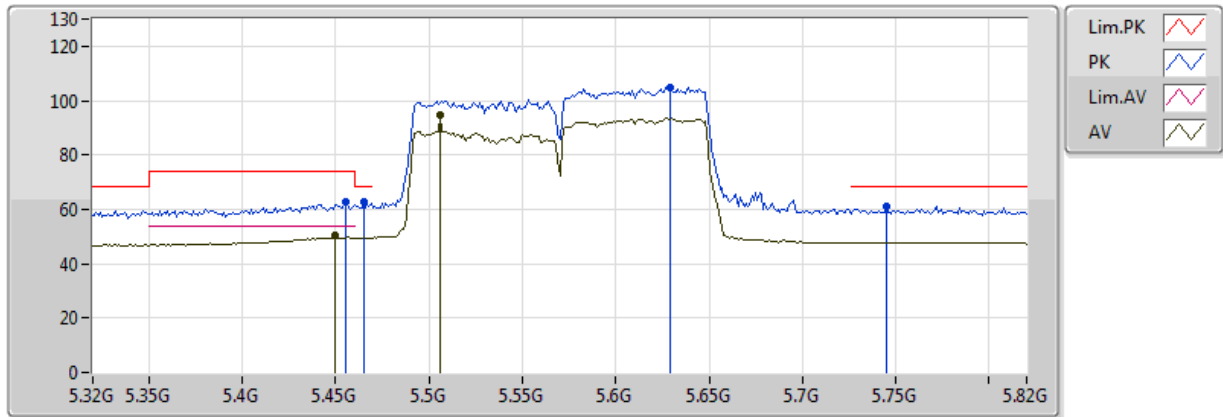


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.46G	52.17	54.00	-1.83	2.91	3	Vertical	6	1.56	-	49.26	31.78	5.67	34.54
AV	5.496G	98.25	Inf	-Inf	2.93	3	Vertical	6	1.56	-	95.32	31.80	5.67	34.54
PK	5.455G	65.54	74.00	-8.46	2.91	3	Vertical	6	1.56	-	62.64	31.78	5.67	34.54
PK	5.462G	65.55	68.20	-2.65	2.91	3	Vertical	6	1.56	-	62.64	31.78	5.67	34.54
PK	5.533G	105.48	Inf	-Inf	3.00	3	Vertical	6	1.56	-	102.49	31.85	5.69	34.55
PK	5.779G	60.83	68.20	-7.37	3.50	3	Vertical	6	1.56	-	57.32	32.25	5.87	34.62

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

26/01/2018

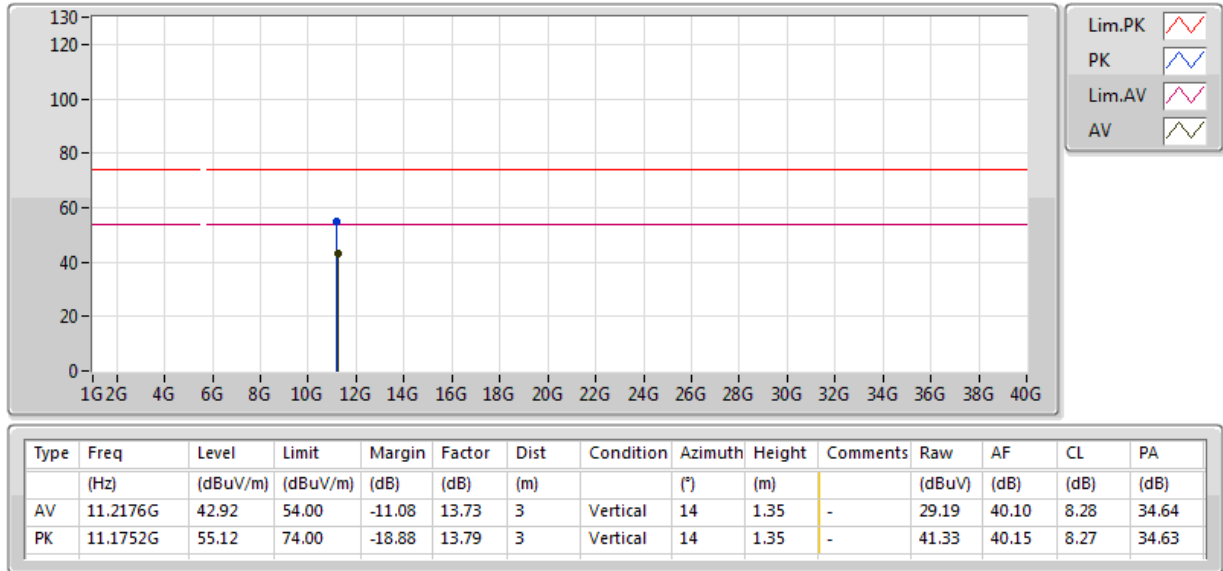


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.45G	50.57	54.00	-3.43	2.91	3	Horizontal	1	1.99	-	47.67	31.78	5.67	34.54
AV	5.506G	94.76	Inf	-Inf	2.94	3	Horizontal	1	1.99	-	91.82	31.81	5.67	34.54
PK	5.455G	62.58	74.00	-11.42	2.91	3	Horizontal	1	1.99	-	59.67	31.78	5.67	34.54
PK	5.465G	62.81	68.20	-5.39	2.91	3	Horizontal	1	1.99	-	59.90	31.79	5.67	34.54
PK	5.745G	61.12	68.20	-7.08	3.43	3	Horizontal	1	1.99	-	57.69	32.19	5.85	34.61
PK	5.629G	104.97	Inf	-Inf	3.19	3	Horizontal	1	1.99	-	101.78	32.01	5.76	34.58

802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

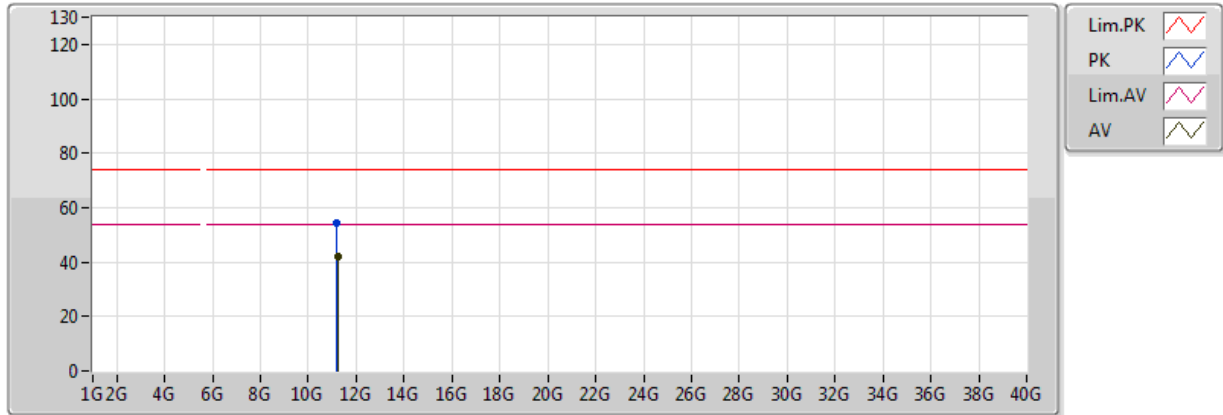
26/01/2018



802.11ac VHT80+80_Nss2,(MCS0)_4TX

#5530#5610MHz_BF

26/01/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.234G	42.16	54.00	-11.84	13.71	3	Horizontal	148	1.50	-	28.45	40.07	8.28	34.64
PK	11.1912G	54.19	74.00	-19.81	13.77	3	Horizontal	148	1.50	-	40.42	40.13	8.27	34.63