FCC Test Report

FCC ID	:	**PPQ-WP9333**
Equipment	:	**802.11 a/n/ac + b/g/n Access Point**
Brand Name	:	**LITE-ON, MOJO, ARISTA, WatchGuard**
Model Name	:	**WP9333,WP9331,O-105, WP9331-FM, O-105E, AP327X**
Applicant	:	**LITE-ON Technology Corp. Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585 Taiwan**
Manufacturer	:	**Lite-On Network Communication (Dongguan) Limited 30#Keji Rd.,Yin Hu Industrial Area,Qingxi Town,DongGuan City,Guangdong,China**
Standard	:	**47 CFR FCC Part 15.407**

The product was received on Jan. 17, 2019, and testing was started from Jan. 26, 2019 and completed on Feb. 01, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR790613-04AN	01	Initial issue of report	Mar. 29, 2019

Summary of Test Result

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

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

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

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

1.1.2 Antenna Information

SKU#	Ant.	Port	Brand	Model Name	Antenna Type	Connector	Radio
1~8	1	2	Walsin	RFMTA400809MMLB901	Metal Antenna	MMCX	1
	2	1	Walsin	RFMTA400811MMLB901	Metal Antenna	MMCX	1
	3	2	Walsin	RFMTA400814MM5B901	Metal Antenna	MMCX	2
	4	1	Walsin	RFMTA400816MM5B901	Metal Antenna	MMCX	2
	5	2	Master Wave Technology Co., Ltd	98P7RPIPF000	PCB Antenna	I-PEX	3
	6	1	Master Wave Technology Co., Ltd	98P7RPIPF001	PCB Antenna	I-PEX	3
	7	1	Walsin	RFPCA381017MMAB702	PCB Antenna	MMCX	4
9	8	2	MasterWave	98615MNXX003	Dipole	N-type	1
	9	1					
	10	2	MasterWave	98615UNXX005	Dipole	N-type	2
	11	1					
10	12	2	Senao	5718A0394300	Dipole	N-type	1
	13	1					
	14	2	Senao	5718A0394300	Dipole	N-type	2
	15	1					
9~10	16	1	LITEON	30100011316D	PCB Antenna	MMCX	4

Ant.	Gain (dBi)						
	Radio 1	Radio 2		Radio 3			Radio 4
	2.4G	5G U-NII-1	5G U-NII-3	2.4G	5G U-NII-1	5G U-NII-3	BT
	with cable loss	with cable loss	with cable loss	with cable loss	with cable loss	with cable loss	with cable loss
1	5.9	-	-	-	-	-	-
2	5.9	-	-	-	-	-	-
3	-	6.2	6.4	-	-	-	-
4	-	6.2	6.4	-	-	-	-
5	-	-	-	6.5	4.7	6.0	-
6	-	-	-	6.5	4.8	5.5	-
7	-	-	-	-	-	-	8.6

Ant.	Gain (dBi)						
	Radio 1		Radio 2				Radio 4
	2.4G		5G U-NII-1		5G U-NII-3		BT
	without cable loss	with cable loss	without cable loss	with cable loss	without cable loss	with cable loss	with cable loss
8	5.0	4.46	-	-	-	-	-
9	5.0	4.46	-	-	-	-	-
10	-	-	7.0	6.19	7.0	6.19	-
11	-	-	7.0	6.19	7.0	6.19	-
12	5.5	4.96	-	-	-	-	-
13	5.5	4.96	-	-	-	-	-
14	-	-	7.0	6.19	7.0	6.19	-
15	-	-	7.0	6.19	7.0	6.19	-
16	-	-	-	-	-	-	8

Note 1: Regarding to more detail and other information, please refer to 1.1.5.

Note 2: The SKU#1~2 contain Radio 3 (2.4G)/(5G) RF module(Model Name: WM862FEMD, FCC ID: PPQ-WM862FEMD).

Note 3: For WiFi Function ; SKU# 1~8 use Internal antenna system, and SKU# 9~10 use external antenna system.

Note 4: The antenna gain with cable loss and was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4 GHz function:

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

Radio 1

SKU#1~8: Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive simultaneously.

SKU#9: Ant. 8 (port 2), Ant. 9 (port 1) could transmit/receive simultaneously.

SKU#10: Ant. 12 (port 2) and Ant. 13 (port 1) could transmit/receive simultaneously.

Radio 3

SKU#1~2: Ant. 5 (port 2) and Ant. 6 (port 1) could transmit/receive simultaneously.

For 5 GHz function:

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

Radio 2 (For U-NII-1 and U-NII-3)

SKU#1~8: Ant. 3 (port 2) and Ant. 4 (port 1) could transmit/receive simultaneously.

SKU#9: Ant. 10 (port 2), Ant. 11 (port 1) could transmit/receive simultaneously.

SKU#10: Ant. 14 (port 2) and Ant. 15 (port 1) could transmit/receive simultaneously.

Radio 3 (For U-NII-1 and U-NII-3)

SKU#1~2: Ant. 5 (port 2) and Ant. 6 (port 1) could transmit/receive simultaneously.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Radio 4

SKU#1~8: Only Ant. 7 (port 1) can be used as transmitting/receiving antenna.

SKU#9~10: Only Ant. 16 (port 1) can be used as transmitting/receiving antenna.

- The Signals support CDD and correlated, and transmits simultaneously in multiple channels in single or multiple frequency bands.
- If all antennas have the same gain, GANT:
  Directional gain = GANT + 10 log(NANT/NSS) dBi, where NSS = the number of independent spatial streams of data and GANT is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for GANT.)
- For power measurements on IEEE 802.11 devices,
  Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
  Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
  Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less,for 20-MHz channel widths with NANT ≥ 5.

1.1.3 EUT Information

Operational Condition					
EUT Power Type	From AC main / PoE				
EUT Function	☐	Outdoor	☒	Indoor	
	☐	Fixed P2P	☐	Client	
Beamforming Function	☐	With beamforming	☒	Without beamforming	
TPC Function	☒	With TPC Function	☐	Without TPC Function	
Weather Band	☐	With 5600~5650MHz	☒	Without 5600~5650MHz	

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.965	0.155	2.065m	1k
802.11ac VHT20	0.985	0.066	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.97	0.132	2.438m	1k
802.11ac VHT80	0.939	0.273	1.15m	1k

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

1.1.5 Table for Multiple Listing

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

SKU#	Brand Name	Model Name	CPU	CPU Brand	DDR	DDR Brand	Flash	Flash Brand/Model	NAND	NAND Brand/Model
1	LITE-ON	WP9333	IPQ4029	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
2			IPQ4019	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
3		WP9331	IPQ4029	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
4			IPQ4019	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
5		WP9331-FM	IPQ4029	Qualcomm Atheros	512	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
6	MOJO	O-105	IPQ4029	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
7			IPQ4019	Qualcomm Atheros	256	Micron	64	1x64 MX25L51245GMI-08G MXIC	-	-
							32X2	2x32 25Q256JVFQ WINBOND	-	-
8	ARISTA	O-105	IPQ4029 (I-TEMP)	Qualcomm Atheros	512	Micron	32	2x32 25Q256JVFQ WINBOND	128	MT29F1G08ABAEAWP-IT
9	**ARISTA**	**O-105E**	**IPQ4029 (I-TEMP)**	**Qualcomm Atheros**	**512**	**Micron**	**32**	**2x32 25Q256JVFQ WINBOND**	**128**	**MT29F1G08ABAEAWP-IT**
10	**WatchGuard**	**O-105E** / **AP327X**	**IPQ4029 (I-TEMP)**	**Qualcomm Atheros**	**512**	**Micron**	**32**	**2x32 25Q256JVFQ WINBOND**	**128**	**MT29F1G08ABAEAWP-IT**

SKU#	Brand Name	Model Name	Radio 1	Radio 2	Radio 3	Radio 4	SFP	EUT Power Type
1~2	LITE-ON	WP9333	V	V	V	V	V	AC main / PoE
3~4	LITE-ON	WP9331	V	V	X	V	V	PoE
5	LITE-ON	WP9331-FM	V	V	X	V	V	PoE
6~7	MOJO	O-105	V	V	X	V	V	PoE
8	ARISTA	O-105	V	V	X	V	X	PoE
9	**ARISTA**	**O-105E**	**V**	**V**	**X**	**V**	**X**	**PoE**
10	**WatchGuard**	**O-105E** / **AP327X**	**V**	**V**	**X**	**V**	**X**	**PoE**

Note:
Radio 1: 802.11ac 2.4G only
Radio 2: 802.11ac 5GHz on board
Radio 3: 802.11agnac PCIe card, 2.4G+5GB1/B4
Radio 4: Bluetooth (BT LE and BR/EDR) on board
The models O-105E & AP327X for Brand Name WatchGuard are identical. All the models are identical, the difference models served as marketing strategy.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR790613AN

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

Modifications	Performance Checking
1. Modified equipment name.	N/A
2. Upgrade BLE version from 4.0(CSR8811A08) to 4.2(CSR8811A12)	All
3. Add a new sample model name: O-105E & AP327X and new type antenna 8~15(only use for O-105E & AP327X).	
4. Add antenna 16 and change it's location for model name: O-105E & AP327X.	

Note. Regarding to more detail and other information, please refer to 1.1.5.

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	Andy	22.1~25°C / 50~60%	01/Feb/2019
Radiated (SKU#1)	03CH02-HY	Andy	22.6~23.5°C / 56~59%	26/Jan/2019~ 01/Feb/2019
Radiated (SKU#10)	03CH09-HY	Kevin	24~26°C / 54~57%	29/Jan/2019~ 31/Jan/2019
AC Conduction	CO04-HY	Andy	21.5~22.4°C / 52.7~53.3%	01/Feb/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software Version	QCRT version 3.0.210.0

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	20
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	22.5
5240MHz	22.5
5745MHz	24
5785MHz	23.5
5825MHz	23.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	23
5755MHz	25
5795MHz	25
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	19
5775MHz	22

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, SKU #10

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	PoE mode, SKU #1		
2	PoE mode, SKU #10		
Operating Mode > 1GHz	CTX		
1	PoE mode, SKU #1		
2	PoE mode, SKU #10		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	1. Radio 1 (2.4G) + Radio 2 (5G) + Radio 3 (2.4G) + Radio 4 (BT)
2	2. Radio 1 (2.4G) + Radio 2 (5G) + Radio 3 (5G) + Radio 4 (BT)
Refer to Sporton Test Report No.: FA790613 for Co-location RF Exposure Evaluation.	

2.4 Accessories and Support Equipment

Accessories		
Ground Wire	**Signal Line**	6.4 meter, non-shielded cable, w/o ferrite core

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

Support Equipment – AC Conduction				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	PoE	PowerDsine	7001G	-

Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Source	G.W	APS-9102	-

For SUK #1

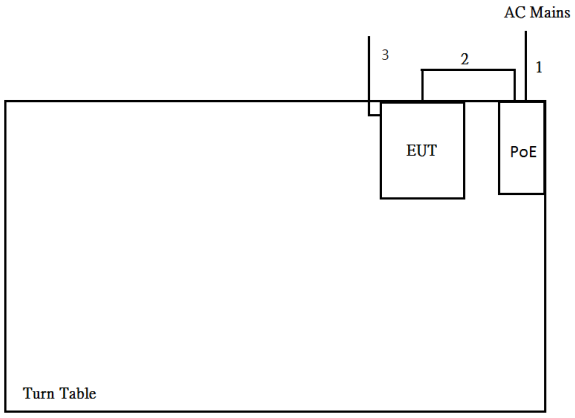
Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	PoE	PowerDsine	7001G	-

For SUK #10

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	PoE	D-Link	DWL-P200	-

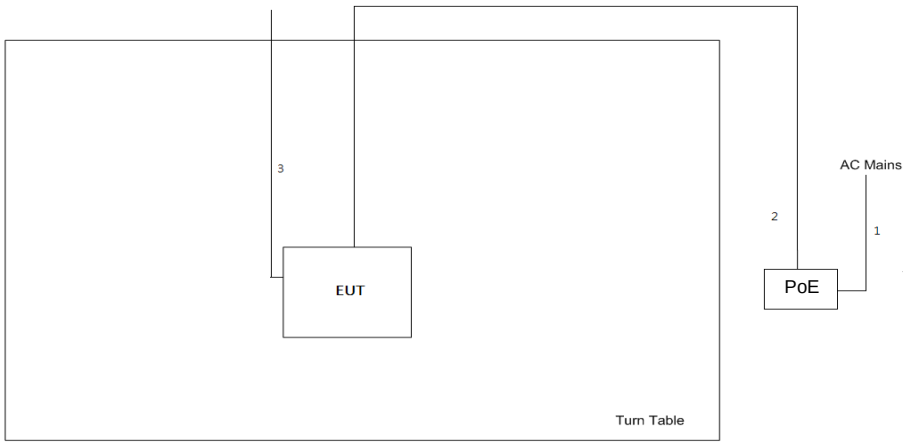
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.0	-
2	RJ45 Cable	No	10.0	-
3	Ground wire	No	6.4	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	AC power line	No	1.2
2	RJ-45 cable	No	10
3	Ground wire	No	6.4

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

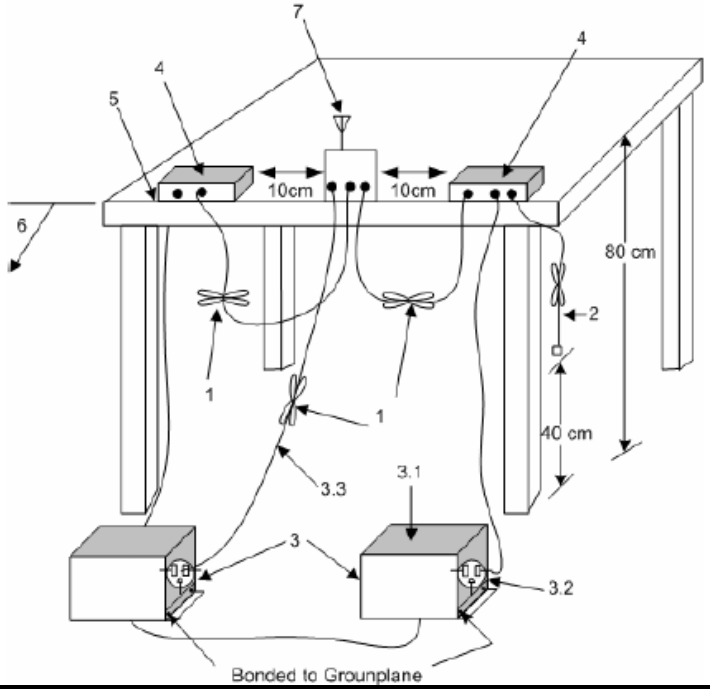
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A.

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, N/A
☐	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

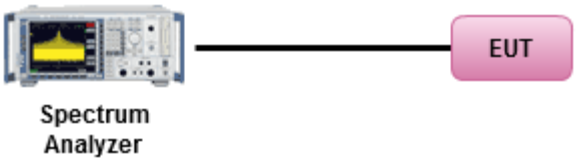
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method		
▪	For the emission bandwidth shall be measured using one of the options below:	
	☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
	☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
	☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B.

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

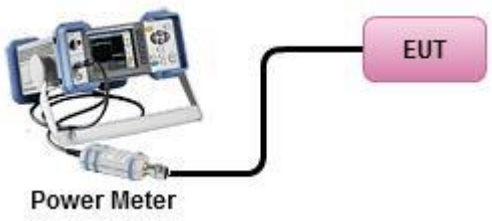
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 23 dBi, then P_{Out} = 17 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6)..
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).	
☒ For the 5.725-5.85 GHz band:	
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

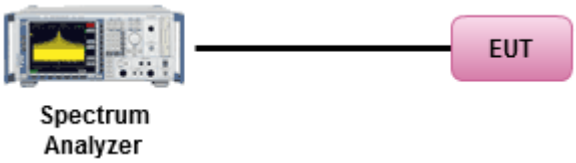
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3
Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT. Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.			

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall	

be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Measuring Instruments

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

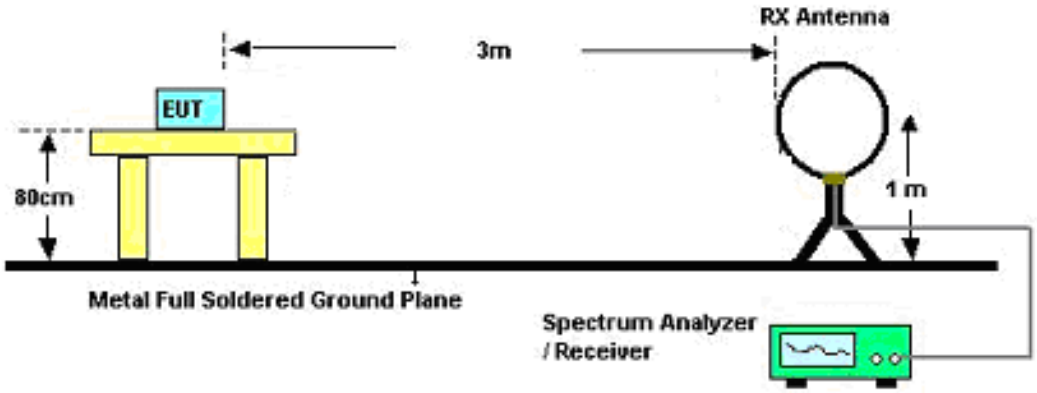
3.5.3 Test Procedures

Test Method		
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.	
		☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
		☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
▪ For radiated measurement.		
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
▪ The any unwanted emissions level shall not exceed the fundamental emission level.		
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.		

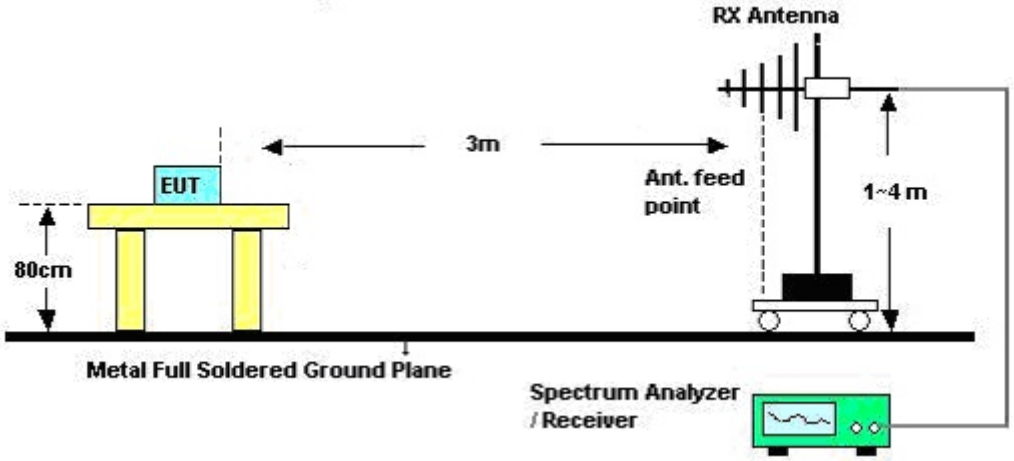
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

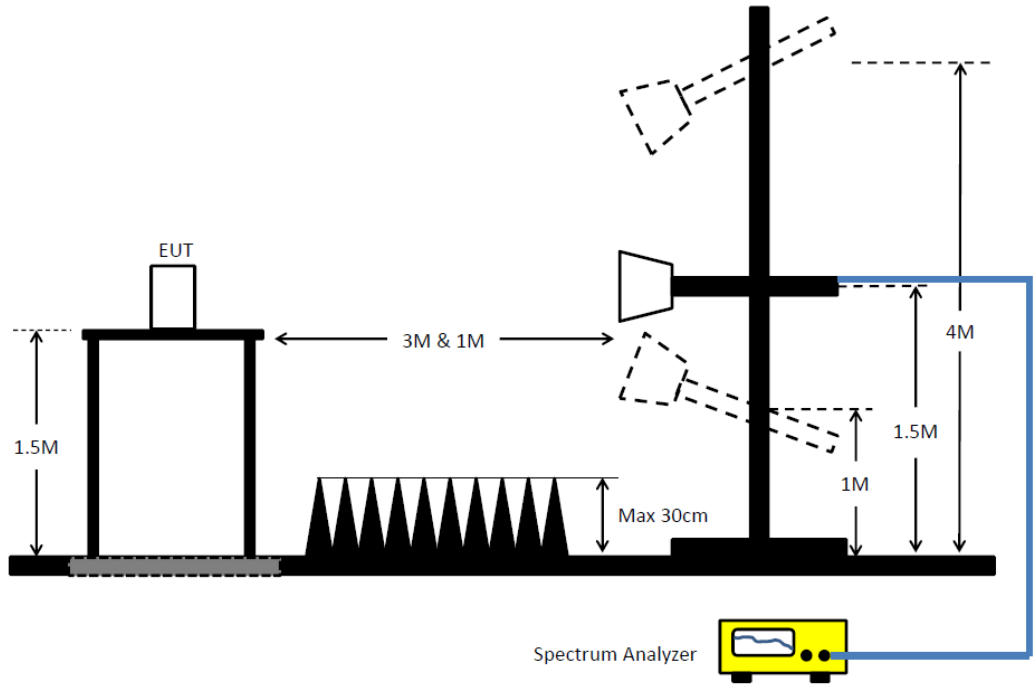
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

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

NCR : Non-Calibration Require.

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2018	25/Oct/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~18G	11/Jan/2019	10/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz~18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	30MHz~1G	11/Jan/2019	10/Jan/2020

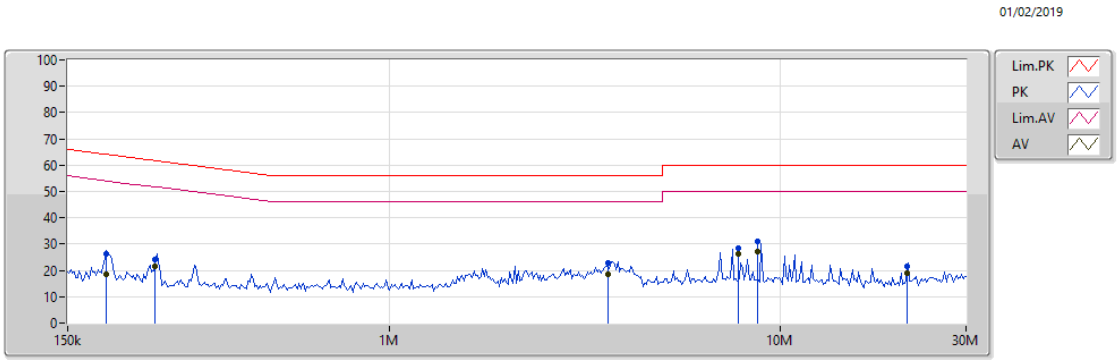
Instrument for Radiated Test For SKU#1

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019

Instrument for Radiated Test For SKU#10

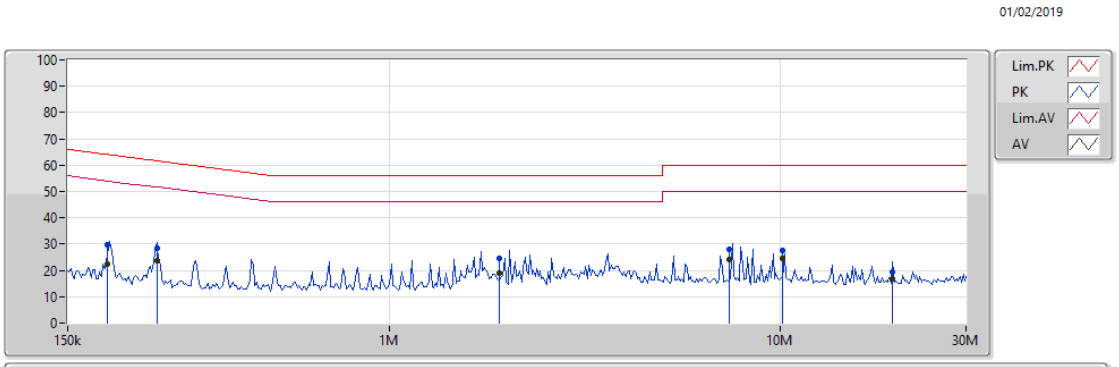
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	02/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	1/Feb/2019	31/Jan/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	PoE Mode		



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	187.633k	26.29	64.15	-37.86	19.47	Neutral	-	6.82	9.59	0.01	9.87
AV	187.633k	18.68	54.15	-35.47	19.47	Neutral	-	-0.79	9.59	0.01	9.87
QP	251.637k	24.17	61.70	-37.53	19.47	Neutral	-	4.70	9.59	0.01	9.87
AV	251.637k	21.41	51.70	-30.29	19.47	Neutral	-	1.94	9.59	0.01	9.87
QP	3.631M	22.77	56.00	-33.23	19.54	Neutral	-	3.23	9.61	0.04	9.89
AV	3.631M	18.49	46.00	-27.51	19.54	Neutral	-	-1.05	9.61	0.04	9.89
QP	7.813M	28.37	60.00	-31.63	19.60	Neutral	-	8.77	9.65	0.06	9.89
AV	7.813M	26.22	50.00	-23.78	19.60	Neutral	-	6.62	9.65	0.06	9.89
QP	8.766M	30.84	60.00	-29.16	19.62	Neutral	-	11.22	9.66	0.07	9.89
AV	8.766M	27.30	50.00	-22.70	19.62	Neutral	"Worst"	7.68	9.66	0.07	9.89
QP	21.222M	21.42	60.00	-38.58	19.69	Neutral	-	1.73	9.68	0.11	9.90
AV	21.222M	18.94	50.00	-31.06	19.69	Neutral	-	-0.75	9.68	0.11	9.90

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	PoE Mode		



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	189.036k	29.70	64.07	-34.37	19.48	Line	-	10.22	9.60	0.01	9.87
AV	189.036k	22.57	54.07	-31.50	19.48	Line	-	3.09	9.60	0.01	9.87
QP	254.966k	28.34	61.60	-33.26	19.48	Line	-	8.86	9.60	0.01	9.87
AV	254.966k	23.85	51.60	-27.75	19.48	Line	-	4.37	9.60	0.01	9.87
QP	1.907M	24.71	56.00	-31.29	19.54	Line	-	5.17	9.62	0.03	9.89
AV	1.907M	18.80	46.00	-27.20	19.54	Line	-	-0.74	9.62	0.03	9.89
QP	7.436M	28.06	60.00	-31.94	19.61	Line	-	8.45	9.66	0.06	9.89
AV	7.436M	24.17	50.00	-25.83	19.61	Line	-	4.56	9.66	0.06	9.89
QP	10.168M	27.38	60.00	-32.62	19.63	Line	-	7.75	9.67	0.07	9.89
AV	10.168M	24.57	50.00	-25.43	19.63	Line	"Worst"	4.94	9.67	0.07	9.89
QP	19.469M	19.46	60.00	-40.54	19.64	Line	-	-0.18	9.63	0.11	9.90
AV	19.469M	16.77	50.00	-33.23	19.64	Line	-	-2.87	9.63	0.11	9.90

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	48.3M	36.032M	36M0D1D	39.7M	35.982M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	75.9M	75.662M	75M7D1D	75.9M	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;

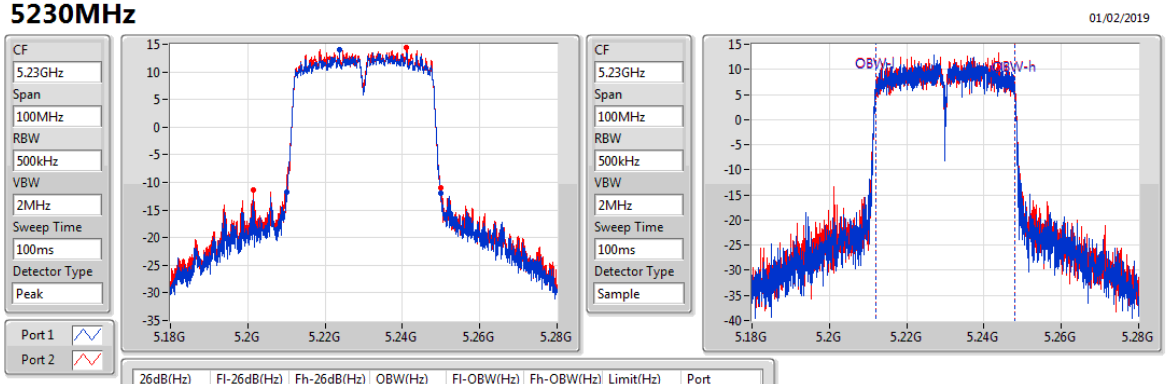
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5230MHz_TnomVnom	Pass	Inf	39.7M	35.982M	48.3M	36.032M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	500k	75.9M	75.662M	75.9M	75.662M

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 VHT40_Nss1,(MCS0)_2TX **EBW**

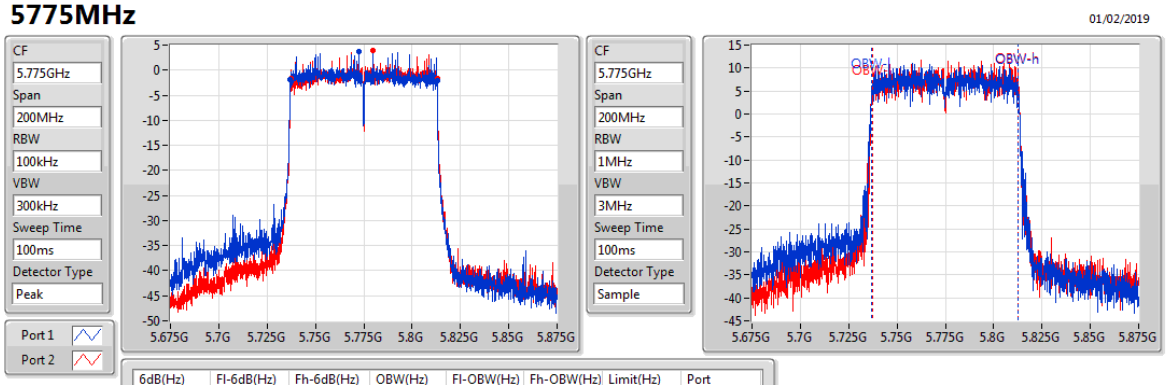
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.7M	5.2102G	5.2499G	35.982M	5.211959G	5.247941G	Inf	1
48.3M	5.2015G	5.2498G	36.032M	5.211959G	5.247991G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.9M	5.737G	5.8129G	75.662M	5.737019G	5.812681G	500k	1
75.9M	5.7372G	5.8131G	75.662M	5.737119G	5.812781G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.00	0.39811	32.20	1.65959
802.11ac VHT20_Nss1,(MCS0)_2TX	25.55	0.35892	31.75	1.49624
802.11ac VHT40_Nss1,(MCS0)_2TX	26.21	0.41783	32.41	1.74181
802.11ac VHT80_Nss1,(MCS0)_2TX	22.04	0.15996	28.24	0.66681
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.85	0.38459	32.25	1.67880
802.11ac VHT20_Nss1,(MCS0)_2TX	26.27	0.42364	32.67	1.84927
802.11ac VHT40_Nss1,(MCS0)_2TX	27.64	0.58076	34.04	2.53513
802.11ac VHT80_Nss1,(MCS0)_2TX	24.34	0.27164	30.74	1.18577

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.20	20.11	20.19	23.16	29.80	29.36	36.00
5200MHz	Pass	6.20	22.86	23.01	25.95	29.80	32.15	36.00
5240MHz	Pass	6.20	22.96	23.02	26.00	29.80	32.20	36.00
5745MHz	Pass	6.40	22.58	22.10	25.36	29.60	31.76	36.00
5785MHz	Pass	6.40	22.92	22.44	25.70	29.60	32.10	36.00
5825MHz	Pass	6.40	22.90	22.78	25.85	29.60	32.25	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.20	21.04	21.23	24.15	29.80	30.35	36.00
5200MHz	Pass	6.20	22.37	22.65	25.52	29.80	31.72	36.00
5240MHz	Pass	6.20	22.57	22.50	25.55	29.80	31.75	36.00
5745MHz	Pass	6.40	23.43	23.09	26.27	29.60	32.67	36.00
5785MHz	Pass	6.40	23.29	23.04	26.18	29.60	32.58	36.00
5825MHz	Pass	6.40	23.26	23.04	26.16	29.60	32.56	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.20	19.15	19.12	22.15	29.80	28.35	36.00
5230MHz	Pass	6.20	23.06	23.34	26.21	29.80	32.41	36.00
5755MHz	Pass	6.40	24.46	24.06	27.27	29.60	33.67	36.00
5795MHz	Pass	6.40	24.89	24.36	27.64	29.60	34.04	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.20	18.97	19.08	22.04	29.80	28.24	36.00
5775MHz	Pass	6.40	21.23	21.42	24.34	29.60	30.74	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	10.31	19.52
5.725-5.85GHz	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	3.73	13.14

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

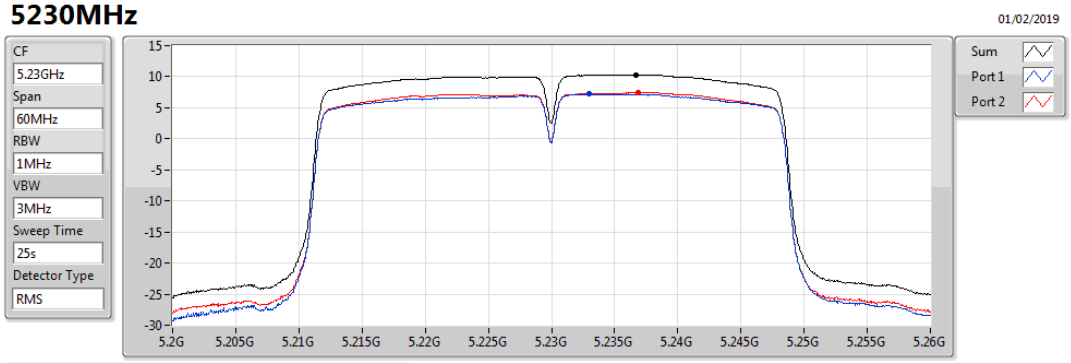
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5230MHz_TnomVnom	Pass	9.21	7.19	7.45	10.31	13.79	19.52	23.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	9.41	0.73	1.03	3.73	26.59	13.14	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

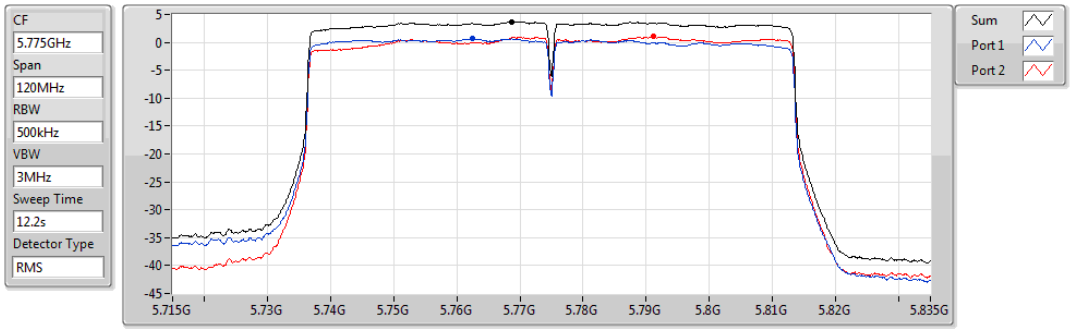
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.31	10.31	7.19	7.45

802.11ac VHT80_Nss1,(MCS0)_2TX **PSD**

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.73	3.73	0.73	1.03

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	288.02M	38.25	46.00	-7.75	-6.12	3	Horizontal	0	1.00	-

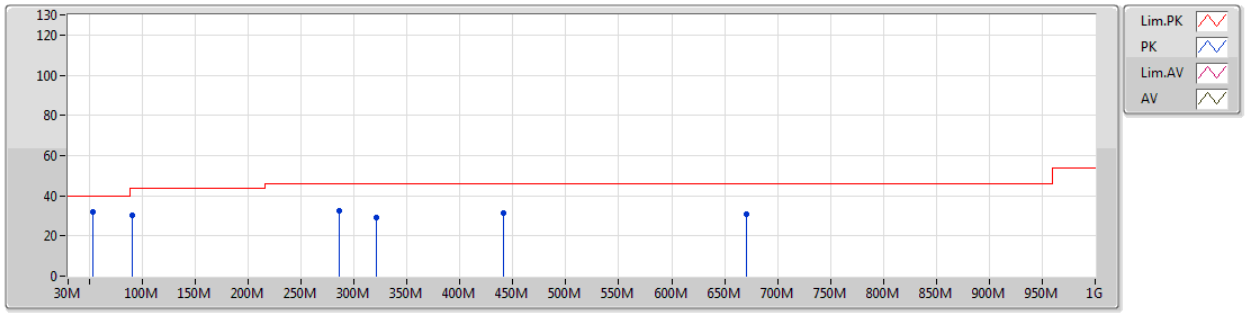
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	53.28M	32.10	40.00	-7.90	-14.69	3	Vertical	360	1.00	-
5775MHz	Pass	PK	90.14M	30.23	43.50	-13.27	-12.55	3	Vertical	360	1.00	-
5775MHz	Pass	PK	286.08M	32.76	46.00	-13.24	-6.17	3	Vertical	360	1.00	-
5775MHz	Pass	PK	321M	29.24	46.00	-16.76	-5.50	3	Vertical	360	1.00	-
5775MHz	Pass	PK	441.28M	31.40	46.00	-14.60	-3.02	3	Vertical	360	1.00	-
5775MHz	Pass	PK	670.2M	30.76	46.00	-15.24	-0.28	3	Vertical	360	1.00	-
5775MHz	Pass	PK	37.76M	27.53	40.00	-12.47	-8.64	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	90.14M	26.70	43.50	-16.80	-12.55	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	288.02M	38.25	46.00	-7.75	-6.12	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	319.06M	37.40	46.00	-8.60	-5.51	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	648.86M	35.64	46.00	-10.36	-0.33	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	722.58M	38.19	46.00	-7.81	0.29	3	Horizontal	0	1.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE

01/02/2019

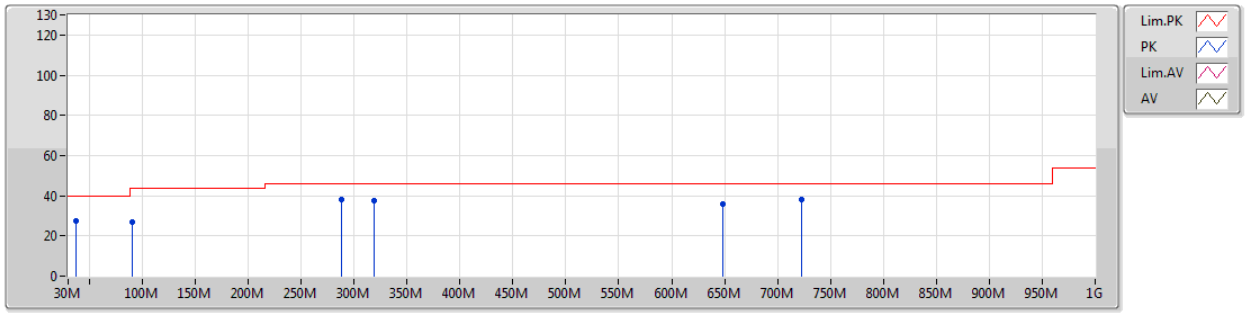


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	53.28M	32.10	40.00	-7.90	-14.69	3	Vertical	360	1.00	-
PK	90.14M	30.23	43.50	-13.27	-12.55	3	Vertical	360	1.00	-
PK	286.08M	32.76	46.00	-13.24	-6.17	3	Vertical	360	1.00	-
PK	321M	29.24	46.00	-16.76	-5.50	3	Vertical	360	1.00	-
PK	441.28M	31.40	46.00	-14.60	-3.02	3	Vertical	360	1.00	-
PK	670.2M	30.76	46.00	-15.24	-0.28	3	Vertical	360	1.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE

01/02/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	37.76M	27.53	40.00	-12.47	-8.64	3	Horizontal	0	1.00	-
PK	90.14M	26.70	43.50	-16.80	-12.55	3	Horizontal	0	1.00	-
PK	288.02M	38.25	46.00	-7.75	-6.12	3	Horizontal	0	1.00	-
PK	319.06M	37.40	46.00	-8.60	-5.51	3	Horizontal	0	1.00	-
PK	648.86M	35.64	46.00	-10.36	-0.33	3	Horizontal	0	1.00	-
PK	722.58M	38.19	46.00	-7.81	0.29	3	Horizontal	0	1.00	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	30M	36.84	40.00	-3.16	-13.40	3	Vertical	360	3.00	-

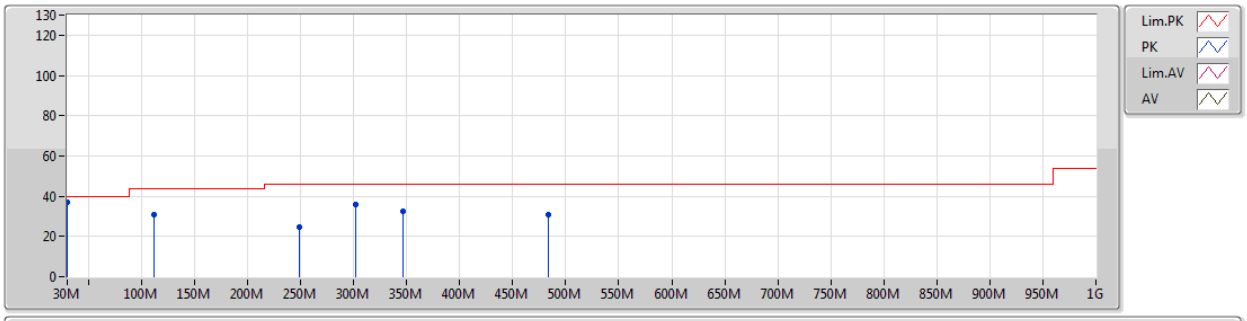
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	36.84	40.00	-3.16	-13.40	3	Vertical	360	3.00	-
5775MHz	Pass	PK	111.48M	30.78	43.50	-12.72	-19.88	3	Vertical	360	3.00	-
5775MHz	Pass	PK	249.22M	24.83	46.00	-21.17	-17.26	3	Vertical	360	3.00	-
5775MHz	Pass	PK	301.6M	36.05	46.00	-9.95	-16.63	3	Vertical	360	3.00	-
5775MHz	Pass	PK	346.22M	32.45	46.00	-13.55	-15.58	3	Vertical	360	3.00	-
5775MHz	Pass	PK	483.96M	30.59	46.00	-15.41	-12.33	3	Vertical	360	3.00	-
5775MHz	Pass	PK	30M	25.47	40.00	-14.53	-13.40	3	Horizontal	0	3.00	-
5775MHz	Pass	PK	68.8M	30.87	40.00	-9.13	-25.21	3	Horizontal	0	3.00	-
5775MHz	Pass	PK	95.96M	33.42	43.50	-10.08	-21.63	3	Horizontal	0	3.00	-
5775MHz	Pass	PK	303.54M	42.16	46.00	-3.84	-16.60	3	Horizontal	0	3.00	-
5775MHz	Pass	PK	344.28M	38.15	46.00	-7.85	-15.64	3	Horizontal	0	3.00	-
5775MHz	Pass	PK	425.76M	26.94	46.00	-19.06	-13.16	3	Horizontal	0	3.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE

31/01/2019

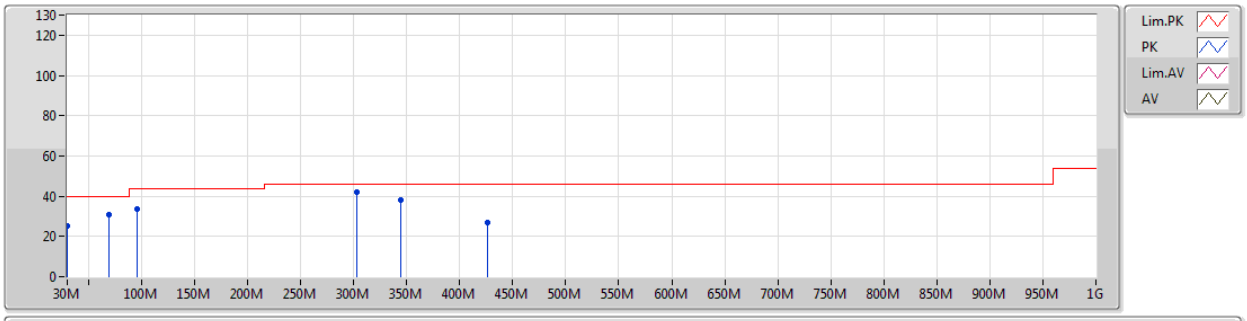


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	30M	36.84	40.00	-3.16	-13.40	3	Vertical	360	3.00	-
PK	111.48M	30.78	43.50	-12.72	-19.88	3	Vertical	360	3.00	-
PK	249.22M	24.83	46.00	-21.17	-17.26	3	Vertical	360	3.00	-
PK	301.6M	36.05	46.00	-9.95	-16.63	3	Vertical	360	3.00	-
PK	346.22M	32.45	46.00	-13.55	-15.58	3	Vertical	360	3.00	-
PK	483.96M	30.59	46.00	-15.41	-12.33	3	Vertical	360	3.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE

31/01/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	30M	25.47	40.00	-14.53	-13.40	3	Horizontal	0	3.00	-
PK	68.8M	30.87	40.00	-9.13	-25.21	3	Horizontal	0	3.00	-
PK	95.96M	33.42	43.50	-10.08	-21.63	3	Horizontal	0	3.00	-
PK	303.54M	42.16	46.00	-3.84	-16.60	3	Horizontal	0	3.00	-
PK	344.28M	38.15	46.00	-7.85	-15.64	3	Horizontal	0	3.00	-
PK	425.76M	26.94	46.00	-19.06	-13.16	3	Horizontal	0	3.00	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	15.59964G	53.13	54.00	-0.87	16.82	3	Vertical	0	2.44	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.1482G	52.88	54.00	-1.12	7.00	3	Horizontal	326	2.53	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.1496G	53.63	54.00	-0.37	7.00	3	Vertical	358	1.76	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.149G	53.87	54.00	-0.13	7.00	3	Vertical	356	1.73	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	17.48028G	52.06	54.00	-1.94	21.39	3	Horizontal	314	1.50	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	17.47308G	51.76	54.00	-2.24	21.32	3	Horizontal	320	1.69	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	17.38212G	51.82	54.00	-2.18	20.62	3	Horizontal	317	1.65	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.6382G	67.26	68.20	-0.94	7.80	3	Vertical	330	2.76	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	52.63	54.00	-1.37	7.00	3	Vertical	356	1.65	-
5180MHz	Pass	AV	5.1752G	107.34	Inf	-Inf	7.02	3	Vertical	356	1.65	-
5180MHz	Pass	PK	5.1498G	66.18	74.00	-7.82	7.00	3	Vertical	356	1.65	-
5180MHz	Pass	PK	5.1752G	116.49	Inf	-Inf	7.02	3	Vertical	356	1.65	-
5180MHz	Pass	AV	5.1468G	52.34	54.00	-1.66	7.00	3	Horizontal	326	2.52	-
5180MHz	Pass	AV	5.182G	107.96	Inf	-Inf	7.02	3	Horizontal	326	2.52	-
5180MHz	Pass	PK	5.1458G	65.72	74.00	-8.28	7.00	3	Horizontal	326	2.52	-
5180MHz	Pass	PK	5.1816G	117.00	Inf	-Inf	7.02	3	Horizontal	326	2.52	-
5180MHz	Pass	AV	15.54144G	47.67	54.00	-6.33	17.00	3	Vertical	1	1.50	-
5180MHz	Pass	PK	15.546G	62.82	74.00	-11.18	16.98	3	Vertical	1	1.50	-
5180MHz	Pass	AV	15.53622G	47.77	54.00	-6.23	17.02	3	Horizontal	7	1.53	-
5180MHz	Pass	PK	15.52638G	59.49	74.00	-14.51	17.04	3	Horizontal	7	1.53	-
5200MHz	Pass	AV	5.1496G	52.07	54.00	-1.93	7.00	3	Vertical	334	3.19	-
5200MHz	Pass	AV	5.2008G	112.61	Inf	-Inf	7.02	3	Vertical	334	3.19	-
5200MHz	Pass	PK	5.1496G	65.37	74.00	-8.63	7.00	3	Vertical	334	3.19	-
5200MHz	Pass	PK	5.196G	122.55	Inf	-Inf	7.02	3	Vertical	334	3.19	-
5200MHz	Pass	AV	5.15G	50.35	54.00	-3.65	7.00	3	Horizontal	324	1.50	-
5200MHz	Pass	AV	5.1972G	108.66	Inf	-Inf	7.02	3	Horizontal	324	1.50	-
5200MHz	Pass	PK	5.1228G	61.73	74.00	-12.27	6.98	3	Horizontal	324	1.50	-
5200MHz	Pass	PK	5.1976G	118.02	Inf	-Inf	7.02	3	Horizontal	324	1.50	-
5200MHz	Pass	AV	15.59964G	53.13	54.00	-0.87	16.82	3	Vertical	0	2.44	-
5200MHz	Pass	PK	15.61002G	71.21	74.00	-2.79	16.79	3	Vertical	0	2.44	-
5200MHz	Pass	AV	15.5961G	50.12	54.00	-3.88	16.82	3	Horizontal	27	1.49	-
5200MHz	Pass	PK	15.60054G	66.78	74.00	-7.22	16.82	3	Horizontal	27	1.49	-
5240MHz	Pass	AV	5.1356G	49.92	54.00	-4.08	7.00	3	Vertical	18	2.40	-
5240MHz	Pass	AV	5.2406G	109.35	Inf	-Inf	7.09	3	Vertical	18	2.40	-
5240MHz	Pass	AV	5.3762G	51.12	54.00	-2.88	7.36	3	Vertical	18	2.40	-
5240MHz	Pass	PK	5.129G	60.73	74.00	-13.27	7.00	3	Vertical	18	2.40	-
5240MHz	Pass	PK	5.2406G	117.99	Inf	-Inf	7.09	3	Vertical	18	2.40	-
5240MHz	Pass	PK	5.3576G	62.80	74.00	-11.20	7.31	3	Vertical	18	2.40	-
5240MHz	Pass	AV	5.1356G	50.27	54.00	-3.73	7.00	3	Horizontal	325	2.70	-
5240MHz	Pass	AV	5.2424G	109.88	Inf	-Inf	7.10	3	Horizontal	325	2.70	-
5240MHz	Pass	AV	5.3768G	50.10	54.00	-3.90	7.36	3	Horizontal	325	2.70	-
5240MHz	Pass	PK	5.138G	61.31	74.00	-12.69	6.99	3	Horizontal	325	2.70	-
5240MHz	Pass	PK	5.2364G	119.30	Inf	-Inf	7.08	3	Horizontal	325	2.70	-
5240MHz	Pass	PK	5.3792G	61.41	74.00	-12.59	7.37	3	Horizontal	325	2.70	-
5240MHz	Pass	AV	15.7197G	51.26	54.00	-2.74	16.45	3	Vertical	0	2.59	-
5240MHz	Pass	PK	15.72852G	68.40	74.00	-5.60	16.42	3	Vertical	0	2.59	-
5240MHz	Pass	AV	15.72192G	50.53	54.00	-3.47	16.45	3	Horizontal	301	1.50	-
5240MHz	Pass	PK	15.72708G	69.14	74.00	-4.86	16.43	3	Horizontal	301	1.50	-
5745MHz	Pass	AV	5.7486G	108.95	Inf	-Inf	8.04	3	Vertical	353	2.09	-
5745MHz	Pass	PK	5.6418G	61.87	68.20	-6.33	7.81	3	Vertical	353	2.09	-
5745MHz	Pass	PK	5.7486G	117.82	Inf	-Inf	8.04	3	Vertical	353	2.09	-
5745MHz	Pass	PK	5.9778G	62.90	68.20	-5.30	8.51	3	Vertical	353	2.09	-
5745MHz	Pass	AV	5.7486G	111.48	Inf	-Inf	8.04	3	Horizontal	359	2.11	-
5745MHz	Pass	PK	5.6214G	62.06	68.20	-6.14	7.76	3	Horizontal	359	2.11	-
5745MHz	Pass	PK	5.7486G	120.01	Inf	-Inf	8.04	3	Horizontal	359	2.11	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	5.9622G	62.29	68.20	-5.91	8.47	3	Horizontal	359	2.11	-
5745MHz	Pass	AV	17.24952G	49.92	54.00	-4.08	19.60	3	Vertical	153	1.50	-
5745MHz	Pass	PK	17.22024G	61.56	74.00	-12.44	19.37	3	Vertical	153	1.50	-
5745MHz	Pass	AV	17.23668G	50.49	54.00	-3.51	19.49	3	Horizontal	319	1.50	-
5745MHz	Pass	PK	17.23662G	66.42	74.00	-7.58	19.49	3	Horizontal	319	1.50	-
5785MHz	Pass	AV	5.7838G	108.92	Inf	-Inf	8.11	3	Vertical	355	2.04	-
5785MHz	Pass	PK	5.6182G	61.99	68.20	-6.21	7.76	3	Vertical	355	2.04	-
5785MHz	Pass	PK	5.7886G	117.54	Inf	-Inf	8.11	3	Vertical	355	2.04	-
5785MHz	Pass	PK	5.9314G	62.91	68.20	-5.29	8.40	3	Vertical	355	2.04	-
5785MHz	Pass	AV	5.7826G	107.98	Inf	-Inf	8.11	3	Horizontal	320	1.01	-
5785MHz	Pass	PK	5.6038G	61.32	68.20	-6.88	7.73	3	Horizontal	320	1.01	-
5785MHz	Pass	PK	5.7874G	116.94	Inf	-Inf	8.12	3	Horizontal	320	1.01	-
5785MHz	Pass	PK	5.9386G	62.52	68.20	-5.68	8.42	3	Horizontal	320	1.01	-
5785MHz	Pass	AV	17.3676G	50.96	54.00	-3.04	20.51	3	Vertical	267	1.50	-
5785MHz	Pass	PK	17.35992G	62.82	74.00	-11.18	20.46	3	Vertical	267	1.50	-
5785MHz	Pass	AV	17.36976G	51.13	54.00	-2.87	20.52	3	Horizontal	322	1.49	-
5785MHz	Pass	PK	17.35764G	65.89	74.00	-8.11	20.44	3	Horizontal	322	1.49	-
5825MHz	Pass	AV	5.8274G	110.93	Inf	-Inf	8.20	3	Vertical	328	2.72	-
5825MHz	Pass	PK	5.5418G	61.78	68.20	-6.42	7.62	3	Vertical	328	2.72	-
5825MHz	Pass	PK	5.8226G	119.92	Inf	-Inf	8.18	3	Vertical	328	2.72	-
5825MHz	Pass	PK	5.969G	62.40	68.20	-5.80	8.49	3	Vertical	328	2.72	-
5825MHz	Pass	AV	5.8274G	109.29	Inf	-Inf	8.20	3	Horizontal	325	2.33	-
5825MHz	Pass	PK	5.5886G	62.28	68.20	-5.92	7.69	3	Horizontal	325	2.33	-
5825MHz	Pass	PK	5.8274G	117.86	Inf	-Inf	8.20	3	Horizontal	325	2.33	-
5825MHz	Pass	PK	5.9378G	62.17	68.20	-6.03	8.42	3	Horizontal	325	2.33	-
5825MHz	Pass	AV	17.48028G	52.06	54.00	-1.94	21.39	3	Horizontal	314	1.50	-
5825MHz	Pass	PK	17.47506G	64.30	74.00	-9.70	21.36	3	Horizontal	314	1.50	-
5825MHz	Pass	AV	17.47974G	52.06	54.00	-1.94	21.39	3	Horizontal	0	2.50	-
5825MHz	Pass	PK	17.48262G	63.74	74.00	-10.26	21.41	3	Horizontal	0	2.50	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1438G	51.30	54.00	-2.70	7.00	3	Vertical	356	1.79	-
5180MHz	Pass	AV	5.1814G	107.76	Inf	-Inf	7.02	3	Vertical	356	1.79	-
5180MHz	Pass	PK	5.1424G	65.42	74.00	-8.58	7.00	3	Vertical	356	1.79	-
5180MHz	Pass	PK	5.182G	117.85	Inf	-Inf	7.02	3	Vertical	356	1.79	-
5180MHz	Pass	AV	5.1482G	52.88	54.00	-1.12	7.00	3	Horizontal	326	2.53	-
5180MHz	Pass	AV	5.1872G	106.62	Inf	-Inf	7.02	3	Horizontal	326	2.53	-
5180MHz	Pass	PK	5.1488G	67.58	74.00	-6.42	7.00	3	Horizontal	326	2.53	-
5180MHz	Pass	PK	5.1856G	116.68	Inf	-Inf	7.02	3	Horizontal	326	2.53	-
5180MHz	Pass	AV	17.4834G	51.65	54.00	-2.35	21.41	3	Vertical	223	1.50	-
5180MHz	Pass	PK	17.47638G	63.81	74.00	-10.19	21.36	3	Vertical	223	1.50	-
5180MHz	Pass	AV	17.48592G	51.60	54.00	-2.40	21.43	3	Horizontal	76	2.43	-
5180MHz	Pass	PK	17.47908G	64.04	74.00	-9.96	21.38	3	Horizontal	76	2.43	-
5200MHz	Pass	AV	5.136G	49.92	54.00	-4.08	7.00	3	Vertical	355	1.77	-
5200MHz	Pass	AV	5.2016G	109.70	Inf	-Inf	7.02	3	Vertical	355	1.77	-
5200MHz	Pass	PK	5.1176G	61.65	74.00	-12.35	6.98	3	Vertical	355	1.77	-
5200MHz	Pass	PK	5.2028G	119.15	Inf	-Inf	7.02	3	Vertical	355	1.77	-
5200MHz	Pass	AV	5.1492G	49.62	54.00	-4.38	7.00	3	Horizontal	16	1.50	-
5200MHz	Pass	AV	5.2048G	106.96	Inf	-Inf	7.03	3	Horizontal	16	1.50	-
5200MHz	Pass	PK	5.1452G	62.41	74.00	-11.59	7.00	3	Horizontal	16	1.50	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5200MHz	Pass	PK	5.2032G	116.97	Inf	-Inf	7.02	3	Horizontal	16	1.50	-
5200MHz	Pass	PK	15.59082G	69.16	74.00	-4.84	15.45	3	Vertical	0	2.35	-
5200MHz	Pass	AV	15.60312G	49.13	54.00	-4.87	15.42	3	Vertical	0	2.35	-
5200MHz	Pass	AV	15.60312G	46.69	54.00	-7.31	15.42	3	Horizontal	353	1.50	-
5200MHz	Pass	PK	15.60138G	64.26	74.00	-9.74	15.42	3	Horizontal	353	1.50	-
5240MHz	Pass	AV	5.1356G	49.55	54.00	-4.45	7.00	3	Vertical	355	1.91	-
5240MHz	Pass	AV	5.2412G	109.82	Inf	-Inf	7.09	3	Vertical	355	1.91	-
5240MHz	Pass	AV	5.3762G	51.12	54.00	-2.88	7.36	3	Vertical	355	1.91	-
5240MHz	Pass	PK	5.1056G	61.77	74.00	-12.23	6.98	3	Vertical	355	1.91	-
5240MHz	Pass	PK	5.2418G	119.70	Inf	-Inf	7.10	3	Vertical	355	1.91	-
5240MHz	Pass	PK	5.351G	61.57	74.00	-12.43	7.30	3	Vertical	355	1.91	-
5240MHz	Pass	AV	5.1452G	49.40	54.00	-4.60	7.00	3	Horizontal	18	1.84	-
5240MHz	Pass	AV	5.2448G	108.04	Inf	-Inf	7.10	3	Horizontal	18	1.84	-
5240MHz	Pass	AV	5.3762G	50.09	54.00	-3.91	7.36	3	Horizontal	18	1.84	-
5240MHz	Pass	PK	5.129G	61.31	74.00	-12.69	7.00	3	Horizontal	18	1.84	-
5240MHz	Pass	PK	5.2448G	118.52	Inf	-Inf	7.10	3	Horizontal	18	1.84	-
5240MHz	Pass	PK	5.3618G	61.04	74.00	-12.96	7.33	3	Horizontal	18	1.84	-
5240MHz	Pass	AV	15.5916G	46.74	54.00	-7.26	16.84	3	Vertical	58	1.50	-
5240MHz	Pass	PK	15.5862G	58.82	74.00	-15.18	16.86	3	Vertical	58	1.50	-
5240MHz	Pass	AV	15.73332G	46.58	54.00	-7.42	16.42	3	Horizontal	104	1.50	-
5240MHz	Pass	PK	15.71538G	59.32	74.00	-14.68	16.47	3	Horizontal	104	1.50	-
5745MHz	Pass	AV	5.7426G	109.83	Inf	-Inf	8.02	3	Vertical	352	2.08	-
5745MHz	Pass	PK	5.5986G	62.33	68.20	-5.87	7.72	3	Vertical	352	2.08	-
5745MHz	Pass	PK	5.7426G	121.08	Inf	-Inf	8.02	3	Vertical	352	2.08	-
5745MHz	Pass	PK	5.937G	62.72	68.20	-5.48	8.42	3	Vertical	352	2.08	-
5745MHz	Pass	AV	5.7402G	112.36	Inf	-Inf	8.02	3	Horizontal	358	2.20	-
5745MHz	Pass	PK	5.625G	62.50	68.20	-5.70	7.77	3	Horizontal	358	2.20	-
5745MHz	Pass	PK	5.7414G	122.71	Inf	-Inf	8.02	3	Horizontal	358	2.20	-
5745MHz	Pass	PK	5.9694G	62.50	68.20	-5.70	8.49	3	Horizontal	358	2.20	-
5745MHz	Pass	AV	17.24064G	49.53	54.00	-4.47	19.53	3	Vertical	218	1.50	-
5745MHz	Pass	PK	17.2422G	61.62	74.00	-12.38	19.54	3	Vertical	218	1.50	-
5745MHz	Pass	AV	17.23872G	49.60	54.00	-4.40	19.51	3	Horizontal	321	1.47	-
5745MHz	Pass	PK	17.24442G	62.74	74.00	-11.26	19.56	3	Horizontal	321	1.47	-
5785MHz	Pass	AV	5.7922G	106.10	Inf	-Inf	8.12	3	Vertical	324	2.89	-
5785MHz	Pass	PK	5.581G	62.21	68.20	-5.99	7.69	3	Vertical	324	2.89	-
5785MHz	Pass	PK	5.791G	115.90	Inf	-Inf	8.12	3	Vertical	324	2.89	-
5785MHz	Pass	PK	5.9638G	62.26	68.20	-5.94	8.48	3	Vertical	324	2.89	-
5785MHz	Pass	AV	5.7874G	107.82	Inf	-Inf	8.12	3	Horizontal	333	1.08	-
5785MHz	Pass	PK	5.5834G	62.56	68.20	-5.64	7.69	3	Horizontal	333	1.08	-
5785MHz	Pass	PK	5.7874G	117.23	Inf	-Inf	8.12	3	Horizontal	333	1.08	-
5785MHz	Pass	PK	5.9842G	62.19	68.20	-6.01	8.51	3	Horizontal	333	1.08	-
5785MHz	Pass	AV	17.35854G	50.94	54.00	-3.06	20.45	3	Vertical	360	2.99	-
5785MHz	Pass	PK	17.35356G	66.58	74.00	-7.42	20.40	3	Vertical	360	2.99	-
5785MHz	Pass	AV	17.35674G	51.00	54.00	-3.00	20.42	3	Horizontal	340	2.64	-
5785MHz	Pass	PK	17.35746G	67.29	74.00	-6.71	20.44	3	Horizontal	340	2.64	-
5825MHz	Pass	AV	5.8322G	111.01	Inf	-Inf	8.21	3	Vertical	330	2.73	-
5825MHz	Pass	PK	5.5814G	62.31	68.20	-5.89	7.69	3	Vertical	330	2.73	-
5825MHz	Pass	PK	5.8298G	120.84	Inf	-Inf	8.20	3	Vertical	330	2.73	-
5825MHz	Pass	PK	5.9546G	62.23	68.20	-5.97	8.46	3	Vertical	330	2.73	-

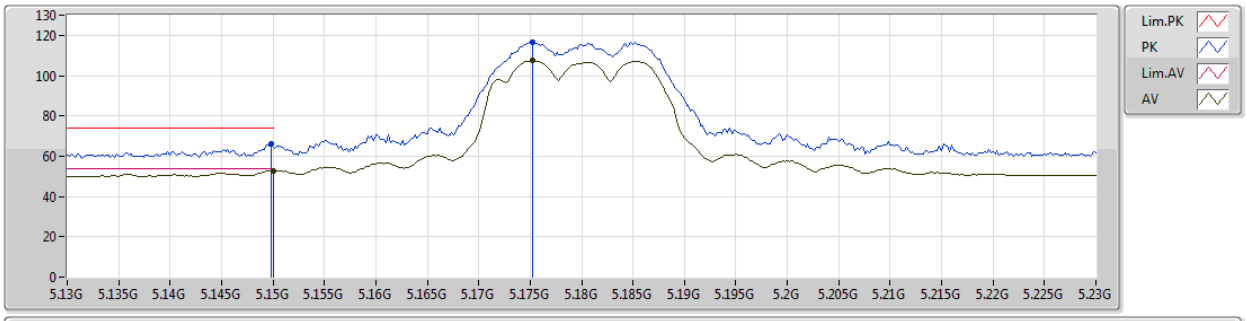
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	AV	5.8274G	106.58	Inf	-Inf	8.20	3	Horizontal	335	1.43	-
5825MHz	Pass	PK	5.5922G	62.87	68.20	-5.33	7.70	3	Horizontal	335	1.43	-
5825MHz	Pass	PK	5.8286G	116.41	Inf	-Inf	8.20	3	Horizontal	335	1.43	-
5825MHz	Pass	PK	5.9702G	62.60	68.20	-5.60	8.49	3	Horizontal	335	1.43	-
5825MHz	Pass	AV	17.48616G	51.60	54.00	-2.40	21.43	3	Vertical	168	1.50	-
5825MHz	Pass	PK	17.48316G	64.06	74.00	-9.94	21.41	3	Vertical	168	1.50	-
5825MHz	Pass	AV	17.47308G	51.76	54.00	-2.24	21.32	3	Horizontal	320	1.69	-
5825MHz	Pass	PK	17.47032G	66.32	74.00	-7.68	21.30	3	Horizontal	320	1.69	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	53.27	54.00	-0.73	7.00	3	Vertical	356	1.76	-
5190MHz	Pass	AV	5.192G	104.07	Inf	-Inf	7.02	3	Vertical	356	1.76	-
5190MHz	Pass	PK	5.148G	63.89	74.00	-10.11	7.00	3	Vertical	356	1.76	-
5190MHz	Pass	PK	5.1908G	113.19	Inf	-Inf	7.01	3	Vertical	356	1.76	-
5190MHz	Pass	AV	5.15G	52.35	54.00	-1.65	7.00	3	Horizontal	327	2.52	-
5190MHz	Pass	AV	5.1976G	103.94	Inf	-Inf	7.02	3	Horizontal	327	2.52	-
5190MHz	Pass	PK	5.1344G	65.11	74.00	-8.89	7.00	3	Horizontal	327	2.52	-
5190MHz	Pass	PK	5.1988G	113.56	Inf	-Inf	7.02	3	Horizontal	327	2.52	-
5190MHz	Pass	AV	15.57252G	47.20	54.00	-6.80	16.90	3	Vertical	175	2.79	-
5190MHz	Pass	PK	15.57582G	59.38	74.00	-14.62	16.89	3	Vertical	175	2.79	-
5190MHz	Pass	AV	15.55698G	47.15	54.00	-6.85	16.95	3	Horizontal	190	1.67	-
5190MHz	Pass	PK	15.57432G	58.95	74.00	-15.05	16.90	3	Horizontal	190	1.67	-
5230MHz	Pass	AV	5.1496G	53.63	54.00	-0.37	7.00	3	Vertical	358	1.76	-
5230MHz	Pass	AV	5.2316G	107.85	Inf	-Inf	7.08	3	Vertical	358	1.76	-
5230MHz	Pass	PK	5.15G	67.94	74.00	-6.06	7.00	3	Vertical	358	1.76	-
5230MHz	Pass	PK	5.2324G	116.66	Inf	-Inf	7.08	3	Vertical	358	1.76	-
5230MHz	Pass	AV	5.1492G	51.93	54.00	-2.07	7.00	3	Horizontal	16	1.50	-
5230MHz	Pass	AV	5.2364G	105.72	Inf	-Inf	7.08	3	Horizontal	16	1.50	-
5230MHz	Pass	PK	5.1496G	64.73	74.00	-9.27	7.00	3	Horizontal	16	1.50	-
5230MHz	Pass	PK	5.2376G	115.91	Inf	-Inf	7.08	3	Horizontal	16	1.50	-
5230MHz	Pass	AV	15.69396G	49.94	54.00	-4.06	16.53	3	Vertical	359	2.55	-
5230MHz	Pass	PK	15.69348G	63.58	74.00	-10.42	16.53	3	Vertical	359	2.55	-
5230MHz	Pass	AV	15.69726G	48.12	54.00	-5.88	16.52	3	Horizontal	298	1.50	-
5230MHz	Pass	PK	15.67596G	61.23	74.00	-12.77	16.59	3	Horizontal	298	1.50	-
5755MHz	Pass	AV	5.7514G	108.11	Inf	-Inf	8.04	3	Vertical	353	2.09	-
5755MHz	Pass	PK	5.6278G	62.16	68.20	-6.04	7.78	3	Vertical	353	2.09	-
5755MHz	Pass	PK	5.7514G	117.83	Inf	-Inf	8.04	3	Vertical	353	2.09	-
5755MHz	Pass	PK	5.9482G	62.38	68.20	-5.82	8.45	3	Vertical	353	2.09	-
5755MHz	Pass	AV	5.749G	111.21	Inf	-Inf	8.04	3	Horizontal	359	2.15	-
5755MHz	Pass	PK	5.647G	63.73	68.20	-4.47	7.83	3	Horizontal	359	2.15	-
5755MHz	Pass	PK	5.749G	120.08	Inf	-Inf	8.04	3	Horizontal	359	2.15	-
5755MHz	Pass	PK	5.9302G	62.34	68.20	-5.86	8.40	3	Horizontal	359	2.15	-
5755MHz	Pass	AV	17.26692G	51.24	54.00	-2.76	19.73	3	Vertical	29	1.65	-
5755MHz	Pass	PK	17.26566G	63.73	74.00	-10.27	19.71	3	Vertical	29	1.65	-
5755MHz	Pass	AV	17.27136G	51.26	54.00	-2.74	19.77	3	Horizontal	18	1.49	-
5755MHz	Pass	PK	17.26902G	65.21	74.00	-8.79	19.75	3	Horizontal	18	1.49	-
5795MHz	Pass	AV	5.7926G	108.14	Inf	-Inf	8.12	3	Vertical	352	2.09	-
5795MHz	Pass	PK	5.6174G	61.80	68.20	-6.40	7.75	3	Vertical	352	2.09	-
5795MHz	Pass	PK	5.7938G	116.98	Inf	-Inf	8.12	3	Vertical	352	2.09	-
5795MHz	Pass	PK	5.9498G	62.32	68.20	-5.88	8.45	3	Vertical	352	2.09	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	AV	5.7986G	106.68	Inf	-Inf	8.14	3	Horizontal	334	1.03	-
5795MHz	Pass	PK	5.591G	62.28	68.20	-5.92	7.70	3	Horizontal	334	1.03	-
5795MHz	Pass	PK	5.7974G	115.95	Inf	-Inf	8.14	3	Horizontal	334	1.03	-
5795MHz	Pass	PK	5.9762G	62.75	68.20	-5.45	8.51	3	Horizontal	334	1.03	-
5795MHz	Pass	AV	17.37984G	51.34	54.00	-2.66	20.61	3	Vertical	344	1.90	-
5795MHz	Pass	PK	17.37432G	63.21	74.00	-10.79	20.57	3	Vertical	344	1.90	-
5795MHz	Pass	AV	17.38212G	51.82	54.00	-2.18	20.62	3	Horizontal	317	1.65	-
5795MHz	Pass	PK	17.382G	64.18	74.00	-9.82	20.62	3	Horizontal	317	1.65	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149G	53.87	54.00	-0.13	7.00	3	Vertical	356	1.73	-
5210MHz	Pass	AV	5.212G	100.27	Inf	-Inf	7.04	3	Vertical	356	1.73	-
5210MHz	Pass	AV	5.376G	51.44	54.00	-2.56	7.36	3	Vertical	356	1.73	-
5210MHz	Pass	PK	5.148G	64.10	74.00	-9.90	7.00	3	Vertical	356	1.73	-
5210MHz	Pass	PK	5.214G	110.59	Inf	-Inf	7.05	3	Vertical	356	1.73	-
5210MHz	Pass	PK	5.459G	62.24	74.00	-11.76	7.49	3	Vertical	356	1.73	-
5210MHz	Pass	AV	5.15G	52.07	54.00	-1.93	7.00	3	Horizontal	15	1.50	-
5210MHz	Pass	AV	5.216G	98.07	Inf	-Inf	7.05	3	Horizontal	15	1.50	-
5210MHz	Pass	AV	5.376G	51.12	54.00	-2.88	7.36	3	Horizontal	15	1.50	-
5210MHz	Pass	PK	5.146G	63.01	74.00	-10.99	7.00	3	Horizontal	15	1.50	-
5210MHz	Pass	PK	5.198G	108.23	Inf	-Inf	7.02	3	Horizontal	15	1.50	-
5210MHz	Pass	PK	5.357G	61.75	74.00	-12.25	7.31	3	Horizontal	15	1.50	-
5210MHz	Pass	AV	15.63108G	47.07	54.00	-6.93	16.72	3	Vertical	62	2.46	-
5210MHz	Pass	PK	15.63318G	58.96	74.00	-15.04	16.72	3	Vertical	62	2.46	-
5210MHz	Pass	AV	15.62556G	47.22	54.00	-6.78	16.75	3	Horizontal	278	1.50	-
5210MHz	Pass	PK	15.63774G	59.41	74.00	-14.59	16.70	3	Horizontal	278	1.50	-
5775MHz	Pass	AV	5.781G	104.31	Inf	-Inf	8.10	3	Vertical	330	2.76	-
5775MHz	Pass	PK	5.6382G	67.26	68.20	-0.94	7.80	3	Vertical	330	2.76	-
5775MHz	Pass	PK	5.8002G	113.94	Inf	-Inf	8.14	3	Vertical	330	2.76	-
5775MHz	Pass	PK	5.9262G	65.42	68.20	-2.78	8.40	3	Vertical	330	2.76	-
5775MHz	Pass	AV	5.7702G	104.73	Inf	-Inf	8.08	3	Horizontal	0	2.24	-
5775MHz	Pass	PK	5.6502G	66.80	68.35	-1.55	7.82	3	Horizontal	0	2.24	-
5775MHz	Pass	PK	5.7894G	113.97	Inf	-Inf	8.12	3	Horizontal	0	2.24	-
5775MHz	Pass	PK	5.985G	63.14	68.20	-5.06	8.52	3	Horizontal	0	2.24	-
5775MHz	Pass	AV	17.33502G	50.70	54.00	-3.30	20.26	3	Vertical	130	1.84	-
5775MHz	Pass	PK	17.3172G	62.63	74.00	-11.37	20.11	3	Vertical	130	1.84	-
5775MHz	Pass	AV	17.33478G	50.70	54.00	-3.30	20.26	3	Horizontal	250	1.50	-
5775MHz	Pass	PK	17.33778G	62.79	74.00	-11.21	20.28	3	Horizontal	250	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

27/01/2019

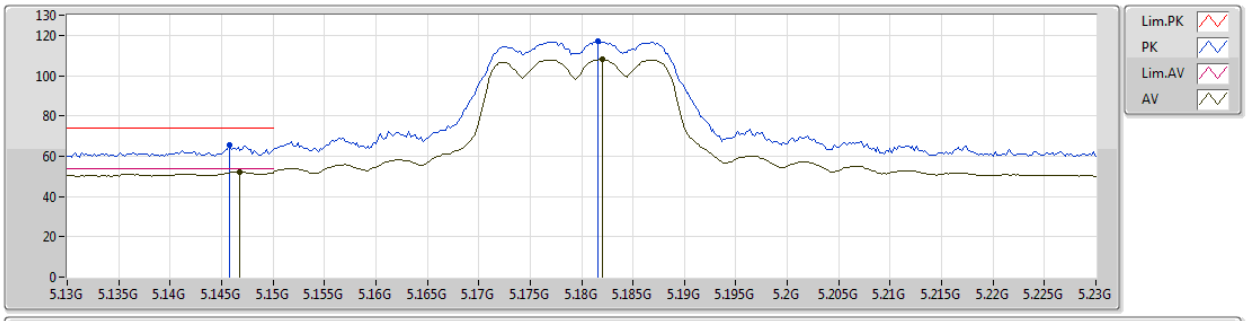


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	52.63	54.00	-1.37	7.00	3	Vertical	356	1.65	-
AV	5.1752G	107.34	Inf	-Inf	7.02	3	Vertical	356	1.65	-
PK	5.1498G	66.18	74.00	-7.82	7.00	3	Vertical	356	1.65	-
PK	5.1752G	116.49	Inf	-Inf	7.02	3	Vertical	356	1.65	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

27/01/2019

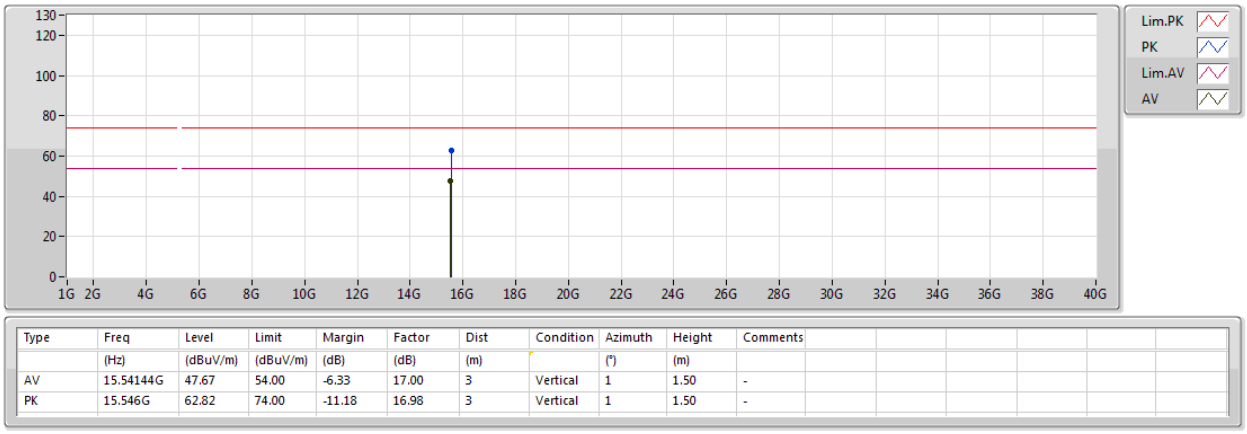


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1468G	52.34	54.00	-1.66	7.00	3	Horizontal	326	2.52	-
AV	5.182G	107.96	Inf	-Inf	7.02	3	Horizontal	326	2.52	-
PK	5.1458G	65.72	74.00	-8.28	7.00	3	Horizontal	326	2.52	-
PK	5.1816G	117.00	Inf	-Inf	7.02	3	Horizontal	326	2.52	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

27/01/2019

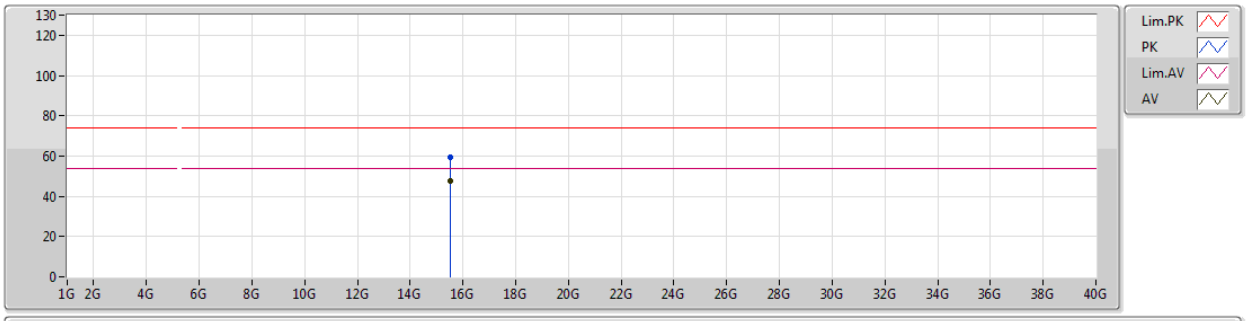


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.54144G	47.67	54.00	-6.33	17.00	3	Vertical	1	1.50	-
PK	15.546G	62.82	74.00	-11.18	16.98	3	Vertical	1	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/01/2019

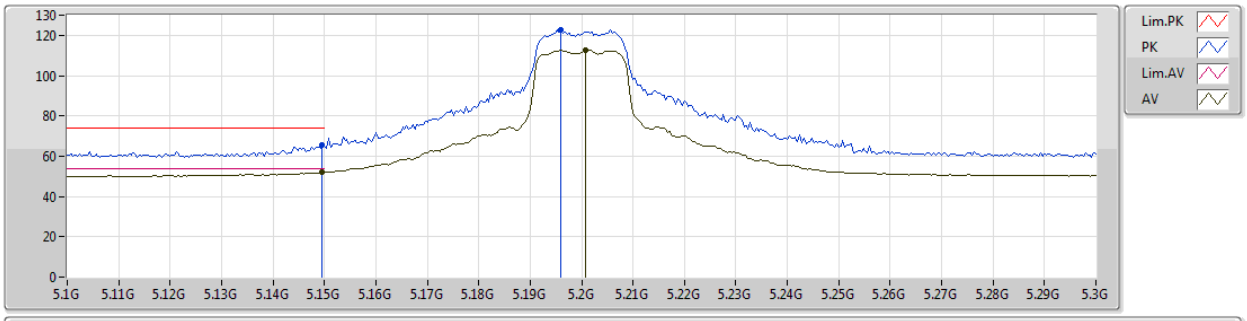


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.53622G	47.77	54.00	-6.23	17.02	3	Horizontal	7	1.53	-
PK	15.52638G	59.49	74.00	-14.51	17.04	3	Horizontal	7	1.53	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/01/2019

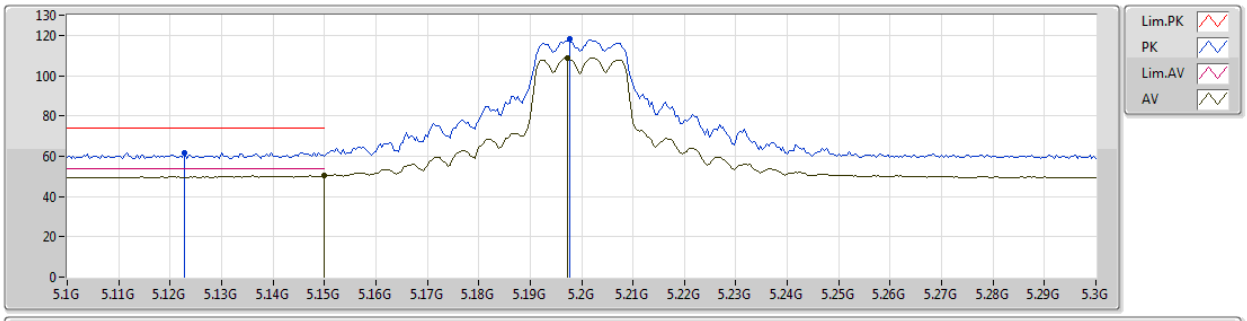


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1496G	52.07	54.00	-1.93	7.00	3	Vertical	334	3.19	-
AV	5.2008G	112.61	Inf	-Inf	7.02	3	Vertical	334	3.19	-
PK	5.1496G	65.37	74.00	-8.63	7.00	3	Vertical	334	3.19	-
PK	5.196G	122.55	Inf	-Inf	7.02	3	Vertical	334	3.19	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/01/2019

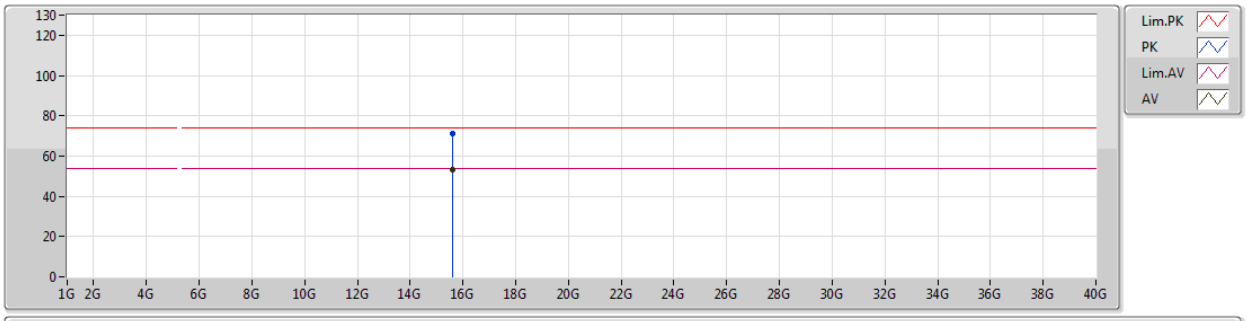


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	50.35	54.00	-3.65	7.00	3	Horizontal	324	1.50	-
AV	5.1972G	108.66	Inf	-Inf	7.02	3	Horizontal	324	1.50	-
PK	5.1228G	61.73	74.00	-12.27	6.98	3	Horizontal	324	1.50	-
PK	5.1976G	118.02	Inf	-Inf	7.02	3	Horizontal	324	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/01/2019

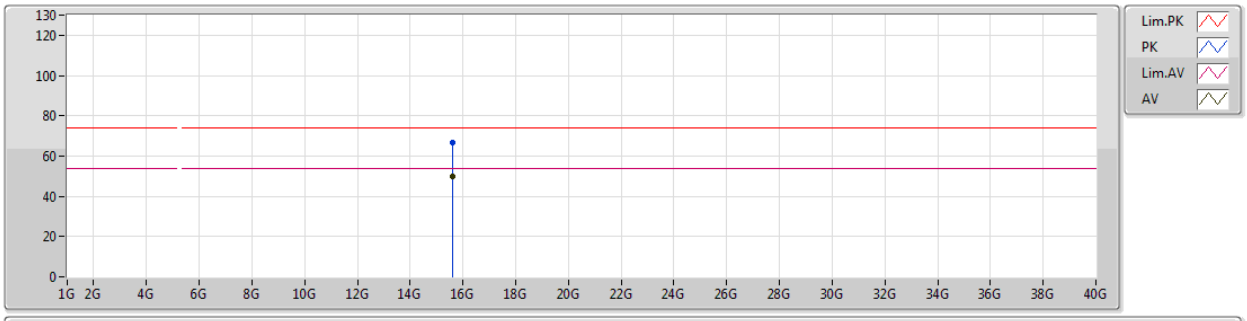


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.59964G	53.13	54.00	-0.87	16.82	3	Vertical	0	2.44	-
PK	15.61002G	71.21	74.00	-2.79	16.79	3	Vertical	0	2.44	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/01/2019

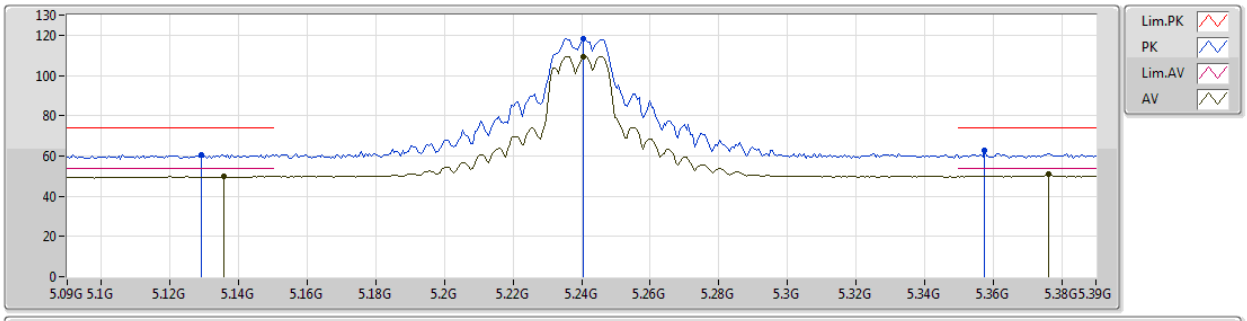


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.5961G	50.12	54.00	-3.88	16.82	3	Horizontal	27	1.49	-
PK	15.60054G	66.78	74.00	-7.22	16.82	3	Horizontal	27	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/01/2019

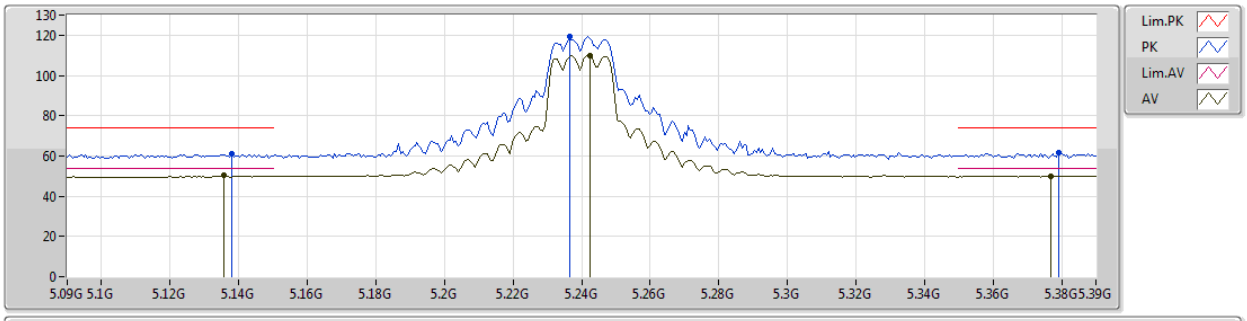


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1356G	49.92	54.00	-4.08	7.00	3	Vertical	18	2.40	-
AV	5.2406G	109.35	Inf	-Inf	7.09	3	Vertical	18	2.40	-
AV	5.3762G	51.12	54.00	-2.88	7.36	3	Vertical	18	2.40	-
PK	5.129G	60.73	74.00	-13.27	7.00	3	Vertical	18	2.40	-
PK	5.2406G	117.99	Inf	-Inf	7.09	3	Vertical	18	2.40	-
PK	5.3576G	62.80	74.00	-11.20	7.31	3	Vertical	18	2.40	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/01/2019

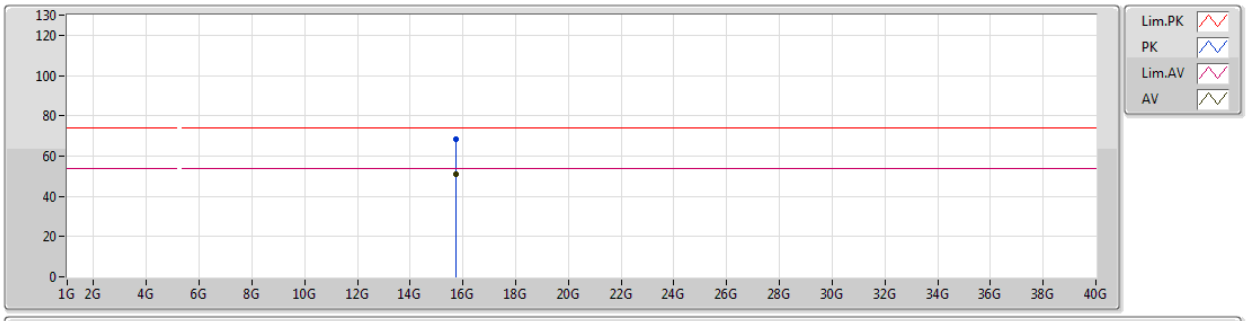


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1356G	50.27	54.00	-3.73	7.00	3	Horizontal	325	2.70	-
AV	5.2424G	109.88	Inf	-Inf	7.10	3	Horizontal	325	2.70	-
AV	5.3768G	50.10	54.00	-3.90	7.36	3	Horizontal	325	2.70	-
PK	5.138G	61.31	74.00	-12.69	6.99	3	Horizontal	325	2.70	-
PK	5.2364G	119.30	Inf	-Inf	7.08	3	Horizontal	325	2.70	-
PK	5.3792G	61.41	74.00	-12.59	7.37	3	Horizontal	325	2.70	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/01/2019

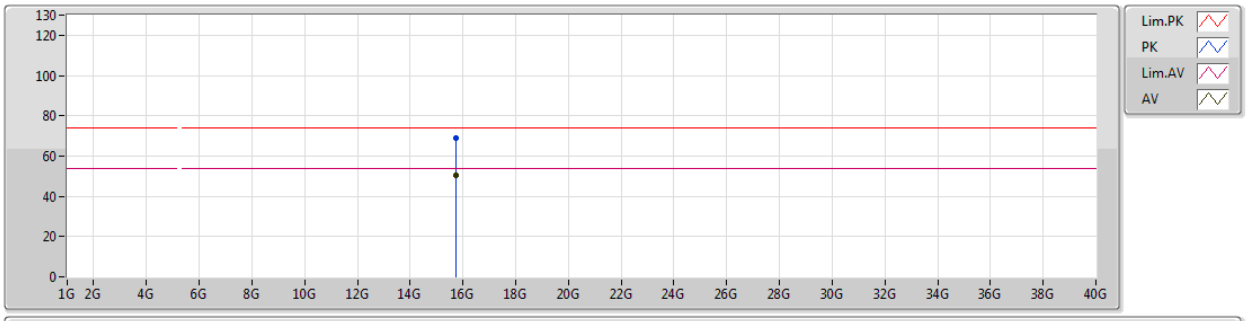


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.7197G	51.26	54.00	-2.74	16.45	3	Vertical	0	2.59	-
PK	15.72852G	68.40	74.00	-5.60	16.42	3	Vertical	0	2.59	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/01/2019

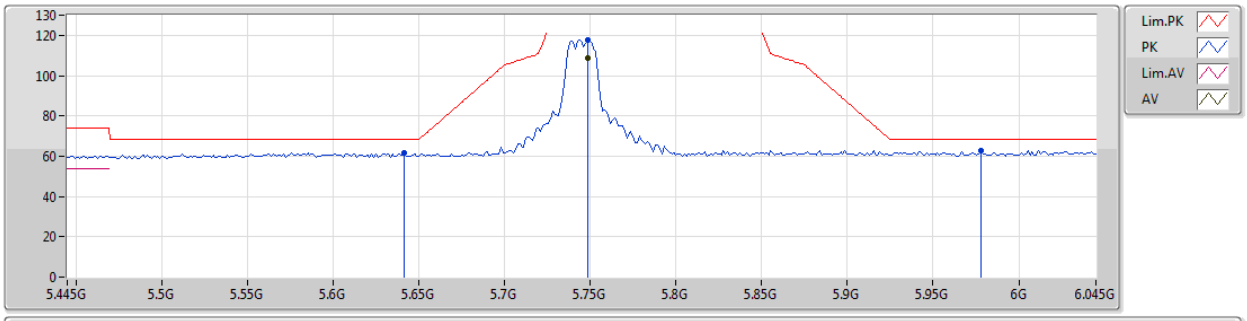


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.72192G	50.53	54.00	-3.47	16.45	3	Horizontal	301	1.50	-
PK	15.72708G	69.14	74.00	-4.86	16.43	3	Horizontal	301	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/01/2019

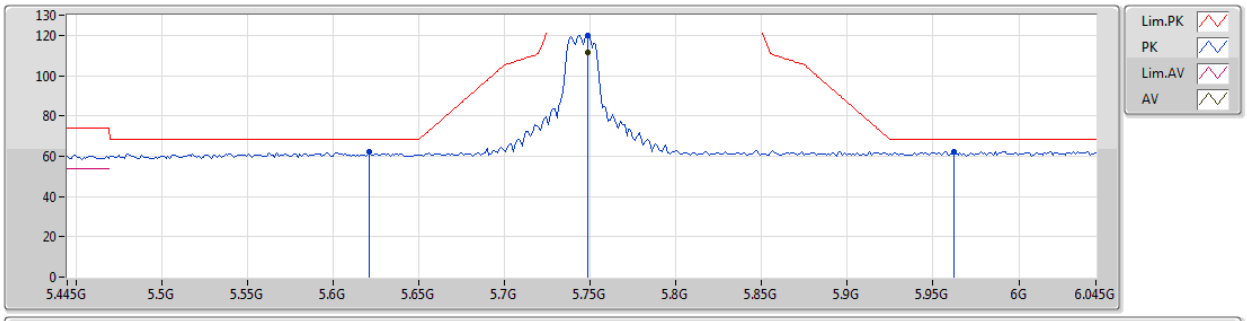


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7486G	108.95	Inf	-Inf	8.04	3	Vertical	353	2.09	-
PK	5.6418G	61.87	68.20	-6.33	7.81	3	Vertical	353	2.09	-
PK	5.7486G	117.82	Inf	-Inf	8.04	3	Vertical	353	2.09	-
PK	5.9778G	62.90	68.20	-5.30	8.51	3	Vertical	353	2.09	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/01/2019

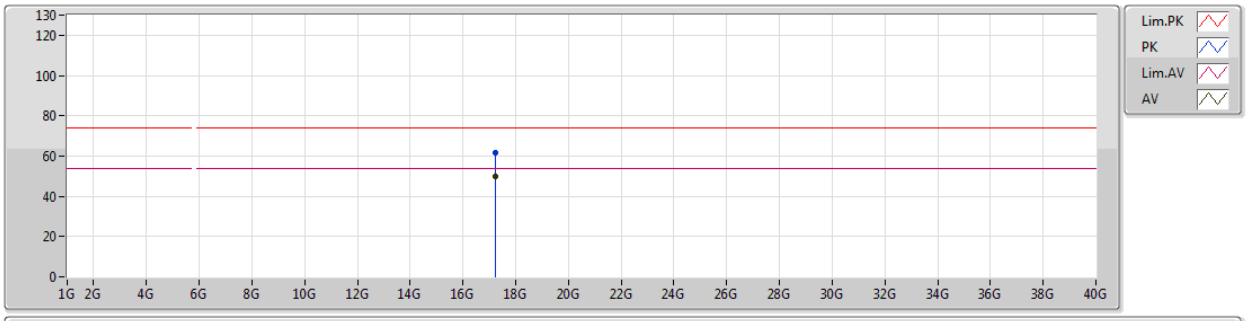


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7486G	111.48	Inf	-Inf	8.04	3	Horizontal	359	2.11	-
PK	5.6214G	62.06	68.20	-6.14	7.76	3	Horizontal	359	2.11	-
PK	5.7486G	120.01	Inf	-Inf	8.04	3	Horizontal	359	2.11	-
PK	5.9622G	62.29	68.20	-5.91	8.47	3	Horizontal	359	2.11	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/01/2019

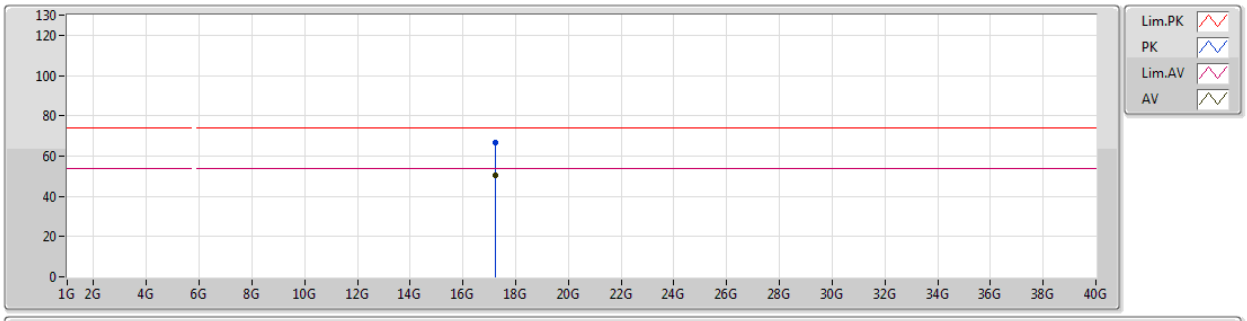


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.24952G	49.92	54.00	-4.08	19.60	3	Vertical	153	1.50	-
PK	17.22024G	61.56	74.00	-12.44	19.37	3	Vertical	153	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/01/2019

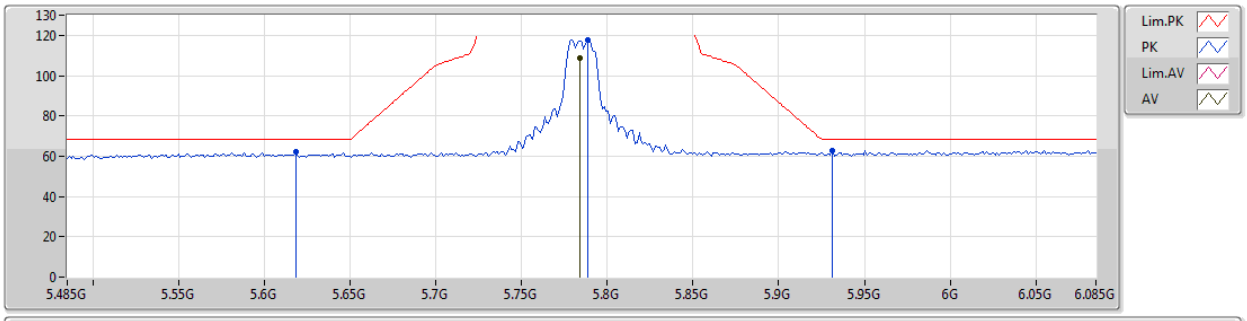


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.23668G	50.49	54.00	-3.51	19.49	3	Horizontal	319	1.50	-
PK	17.23662G	66.42	74.00	-7.58	19.49	3	Horizontal	319	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/01/2019

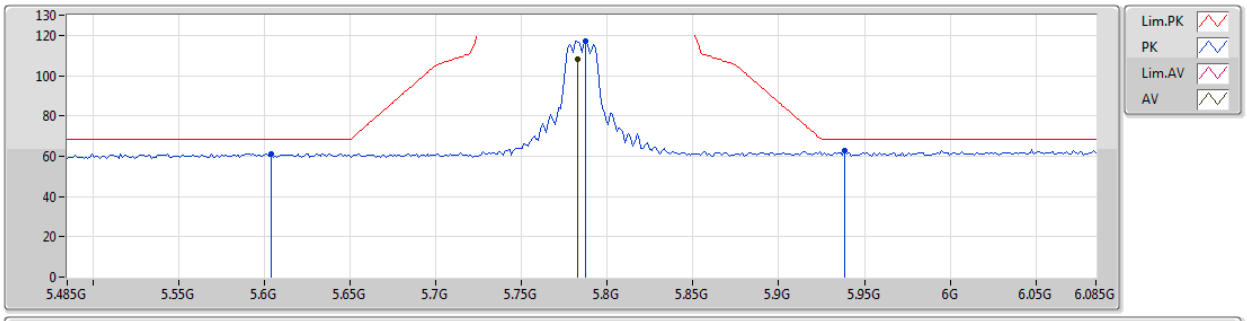


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7838G	108.92	Inf	-Inf	8.11	3	Vertical	355	2.04	-
PK	5.6182G	61.99	68.20	-6.21	7.76	3	Vertical	355	2.04	-
PK	5.7886G	117.54	Inf	-Inf	8.11	3	Vertical	355	2.04	-
PK	5.9314G	62.91	68.20	-5.29	8.40	3	Vertical	355	2.04	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/01/2019

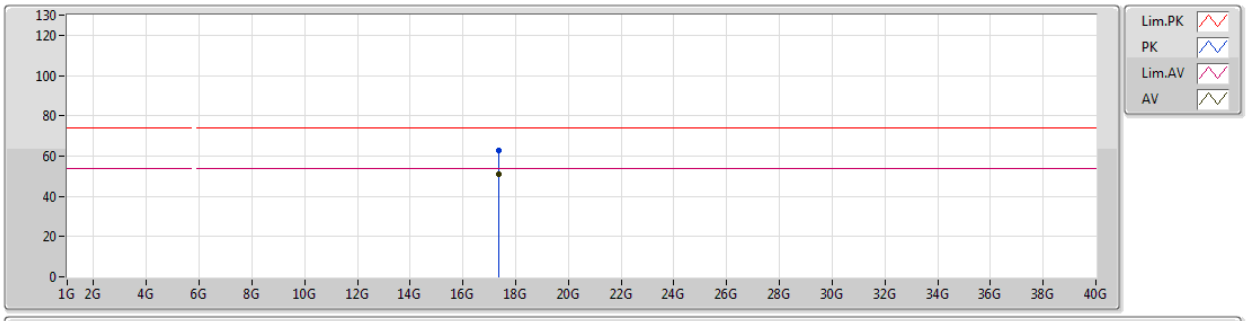


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7826G	107.98	Inf	-Inf	8.11	3	Horizontal	320	1.01	-
PK	5.6038G	61.32	68.20	-6.88	7.73	3	Horizontal	320	1.01	-
PK	5.7874G	116.94	Inf	-Inf	8.12	3	Horizontal	320	1.01	-
PK	5.9386G	62.52	68.20	-5.68	8.42	3	Horizontal	320	1.01	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/01/2019

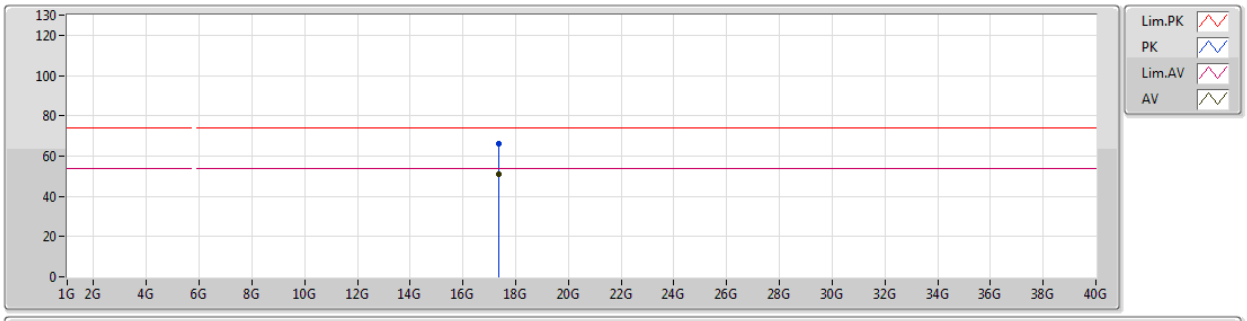


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.3676G	50.96	54.00	-3.04	20.51	3	Vertical	267	1.50	-
PK	17.35992G	62.82	74.00	-11.18	20.46	3	Vertical	267	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/01/2019

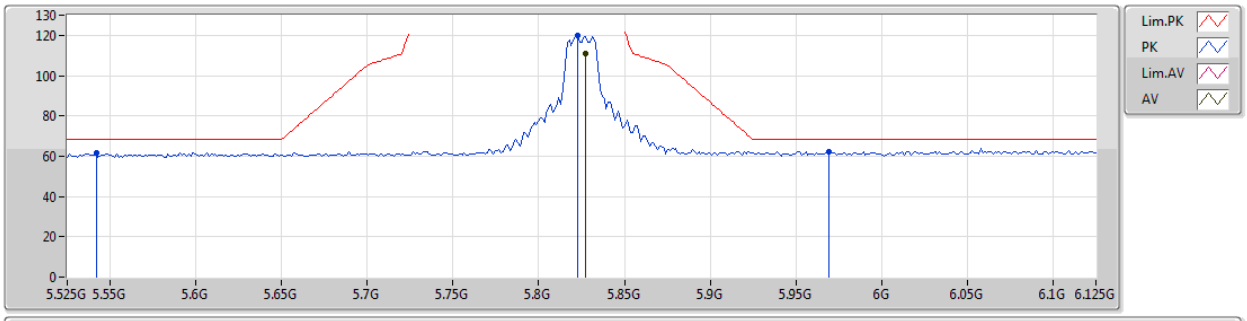


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.36976G	51.13	54.00	-2.87	20.52	3	Horizontal	322	1.49	-
PK	17.35764G	65.89	74.00	-8.11	20.44	3	Horizontal	322	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/01/2019

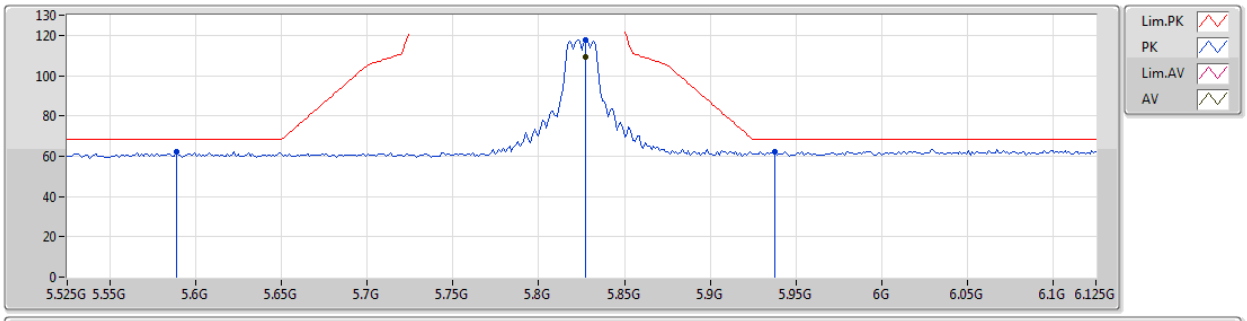


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8274G	110.93	Inf	-Inf	8.20	3	Vertical	328	2.72	-
PK	5.5418G	61.78	68.20	-6.42	7.62	3	Vertical	328	2.72	-
PK	5.8226G	119.92	Inf	-Inf	8.18	3	Vertical	328	2.72	-
PK	5.969G	62.40	68.20	-5.80	8.49	3	Vertical	328	2.72	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/01/2019

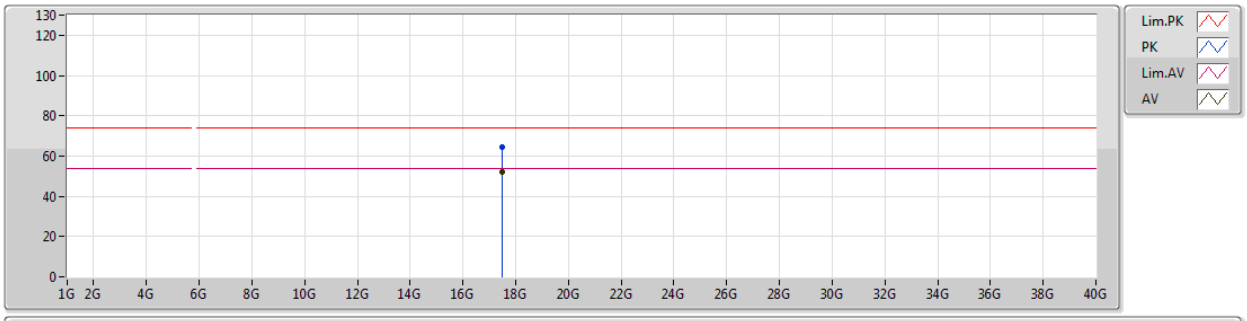


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8274G	109.29	Inf	-Inf	8.20	3	Horizontal	325	2.33	-
PK	5.5886G	62.28	68.20	-5.92	7.69	3	Horizontal	325	2.33	-
PK	5.8274G	117.86	Inf	-Inf	8.20	3	Horizontal	325	2.33	-
PK	5.9378G	62.17	68.20	-6.03	8.42	3	Horizontal	325	2.33	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/01/2019

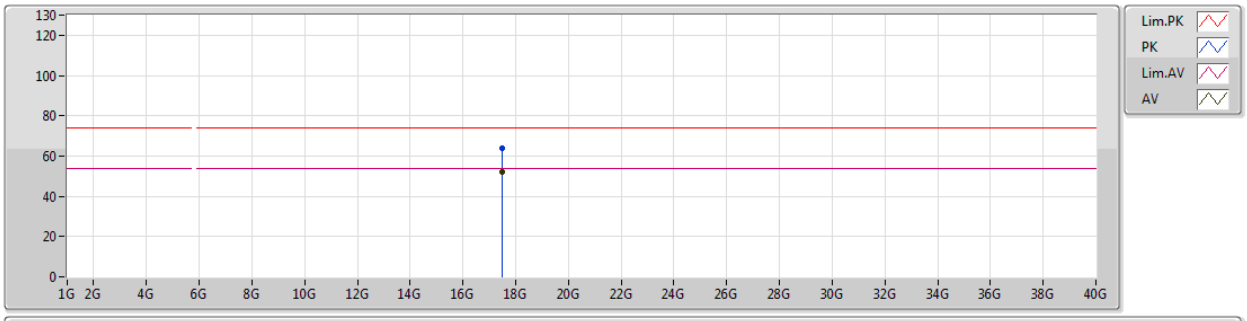


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.48028G	52.06	54.00	-1.94	21.39	3	Horizontal	314	1.50	-
PK	17.47506G	64.30	74.00	-9.70	21.36	3	Horizontal	314	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/01/2019

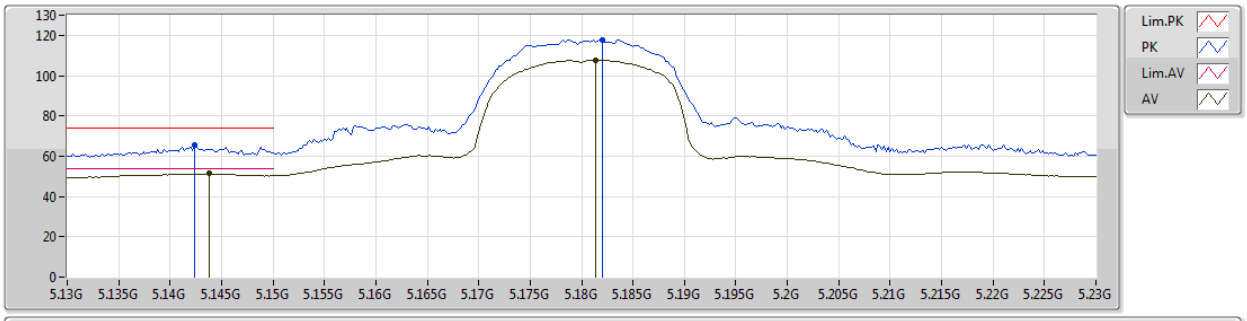


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.47974G	52.06	54.00	-1.94	21.39	3	Horizontal	0	2.50	-
PK	17.48262G	63.74	74.00	-10.26	21.41	3	Horizontal	0	2.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

26/01/2019

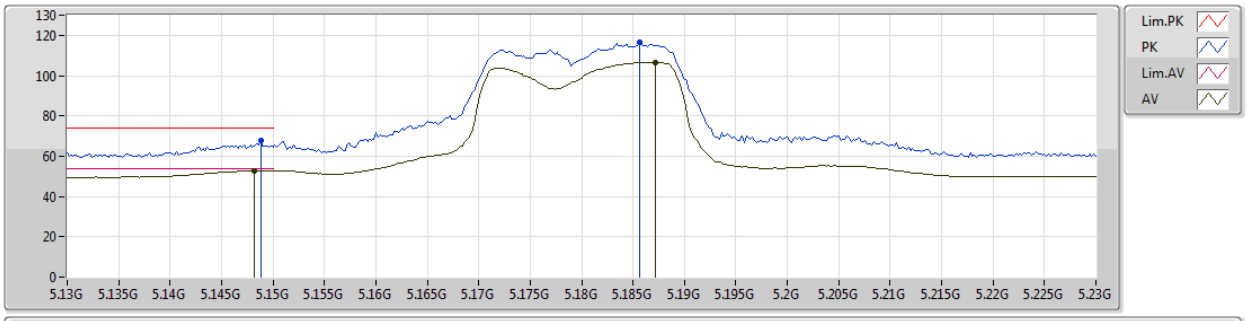


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1438G	51.30	54.00	-2.70	7.00	3	Vertical	356	1.79	-
AV	5.1814G	107.76	Inf	-Inf	7.02	3	Vertical	356	1.79	-
PK	5.1424G	65.42	74.00	-8.58	7.00	3	Vertical	356	1.79	-
PK	5.182G	117.85	Inf	-Inf	7.02	3	Vertical	356	1.79	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

26/01/2019

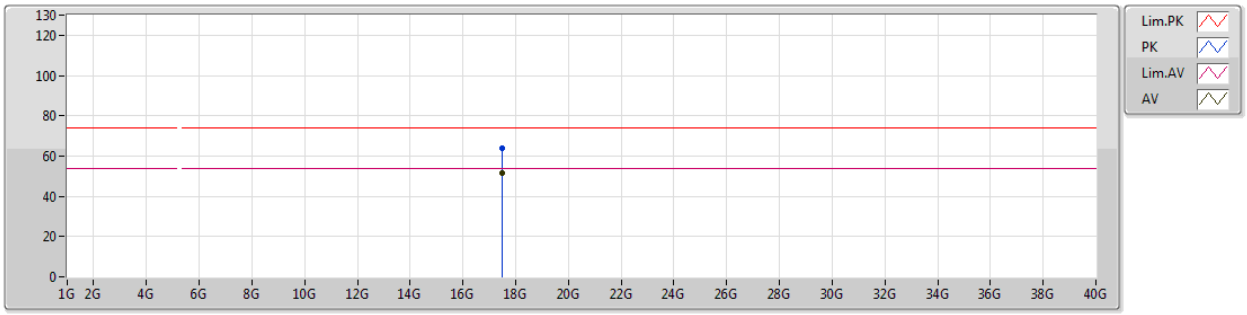


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1482G	52.88	54.00	-1.12	7.00	3	Horizontal	326	2.53	-
AV	5.1872G	106.62	Inf	-Inf	7.02	3	Horizontal	326	2.53	-
PK	5.1488G	67.58	74.00	-6.42	7.00	3	Horizontal	326	2.53	-
PK	5.1856G	116.68	Inf	-Inf	7.02	3	Horizontal	326	2.53	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

26/01/2019

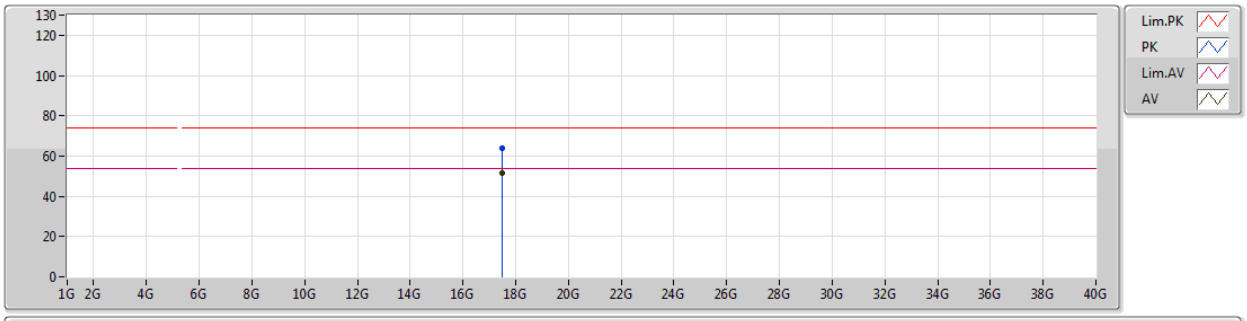


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.4834G	51.65	54.00	-2.35	21.41	3	Vertical	223	1.50	-
PK	17.47638G	63.81	74.00	-10.19	21.36	3	Vertical	223	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

26/01/2019

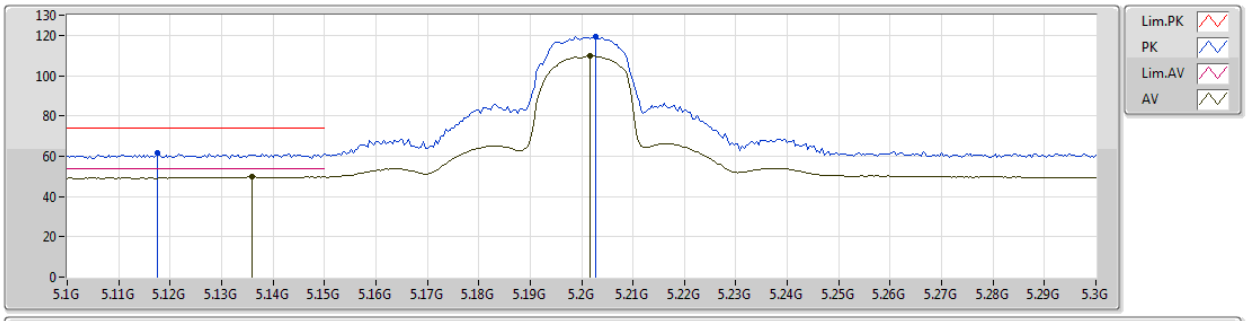


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.48592G	51.60	54.00	-2.40	21.43	3	Horizontal	76	2.43	-
PK	17.47908G	64.04	74.00	-9.96	21.38	3	Horizontal	76	2.43	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/01/2019

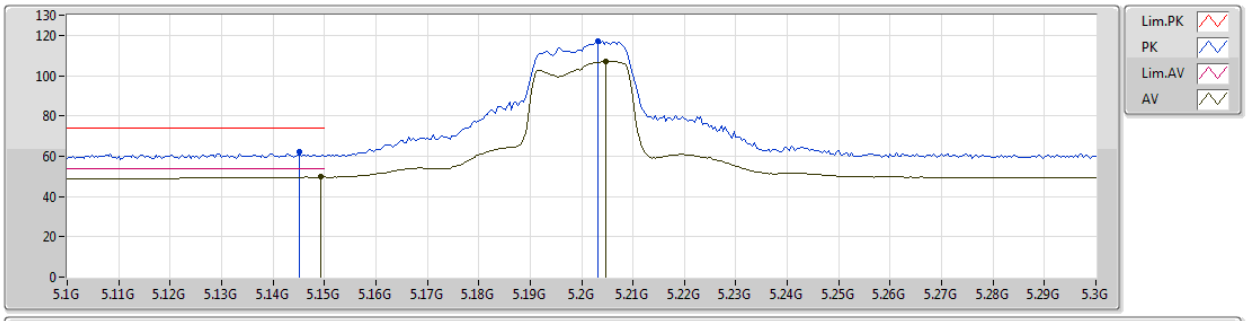


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.136G	49.92	54.00	-4.08	7.00	3	Vertical	355	1.77	-
AV	5.2016G	109.70	Inf	-Inf	7.02	3	Vertical	355	1.77	-
PK	5.1176G	61.65	74.00	-12.35	6.98	3	Vertical	355	1.77	-
PK	5.2028G	119.15	Inf	-Inf	7.02	3	Vertical	355	1.77	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/01/2019

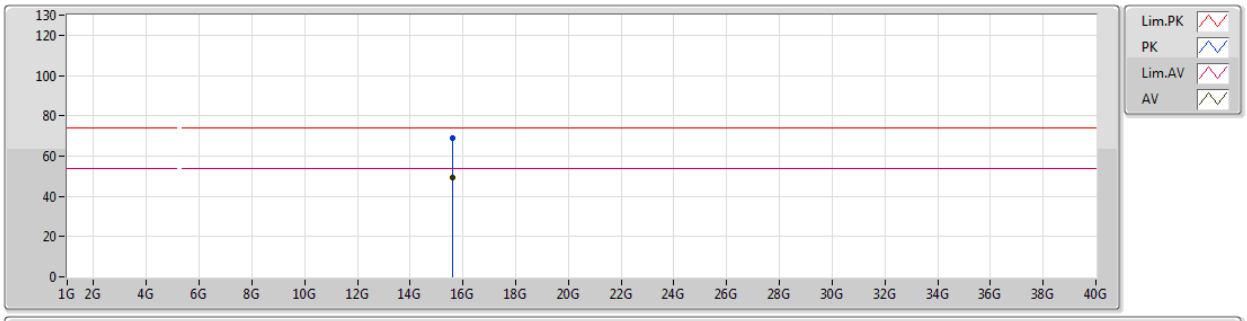


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1492G	49.62	54.00	-4.38	7.00	3	Horizontal	16	1.50	-
AV	5.2048G	106.96	Inf	-Inf	7.03	3	Horizontal	16	1.50	-
PK	5.1452G	62.41	74.00	-11.59	7.00	3	Horizontal	16	1.50	-
PK	5.2032G	116.97	Inf	-Inf	7.02	3	Horizontal	16	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/01/2019

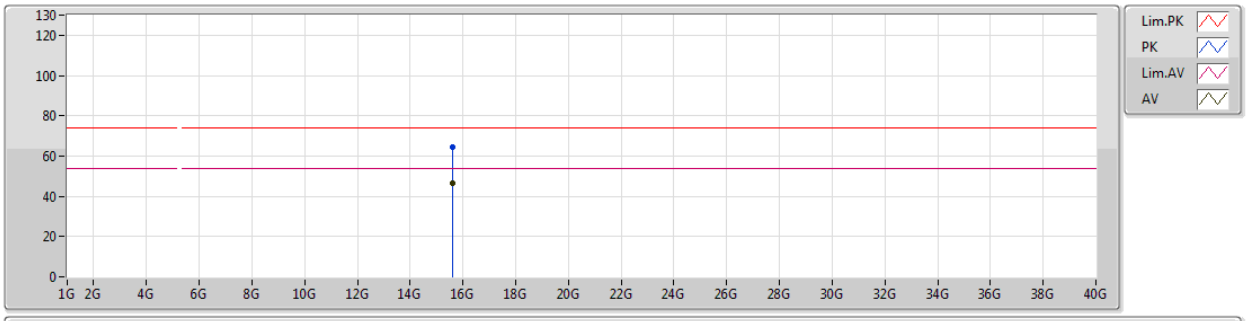


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.60312G	49.13	54.00	-4.87	15.42	3	Vertical	0	2.35	-
PK	15.59082G	69.16	74.00	-4.84	15.45	3	Vertical	0	2.35	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/01/2019

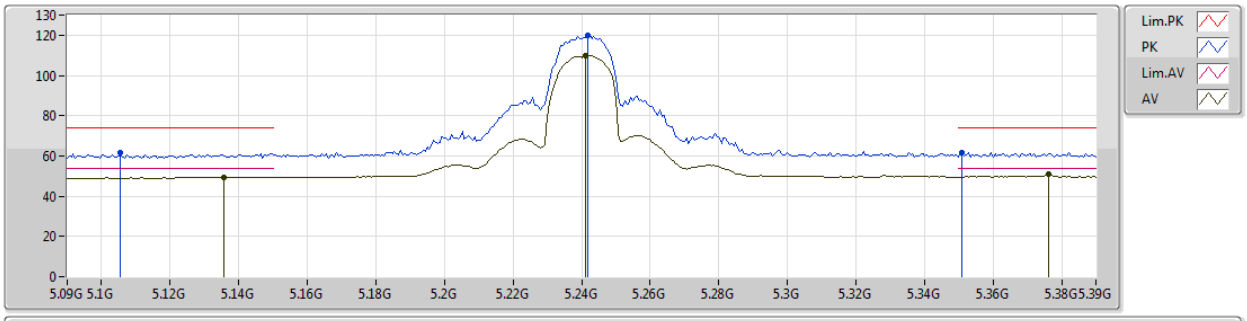


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.60312G	46.69	54.00	-7.31	15.42	3	Horizontal	353	1.50	-
PK	15.60138G	64.26	74.00	-9.74	15.42	3	Horizontal	353	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/01/2019

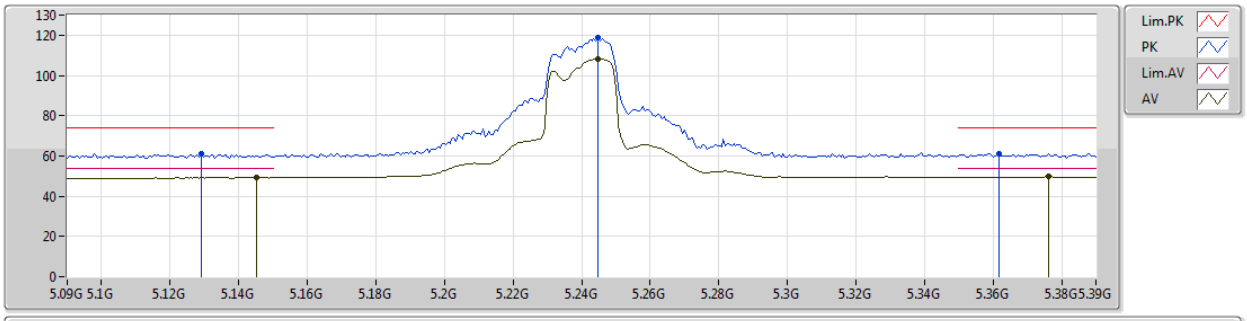


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1356G	49.55	54.00	-4.45	7.00	3	Vertical	355	1.91	-
AV	5.2412G	109.82	Inf	-Inf	7.09	3	Vertical	355	1.91	-
AV	5.3762G	51.12	54.00	-2.88	7.36	3	Vertical	355	1.91	-
PK	5.1056G	61.77	74.00	-12.23	6.98	3	Vertical	355	1.91	-
PK	5.2418G	119.70	Inf	-Inf	7.10	3	Vertical	355	1.91	-
PK	5.351G	61.57	74.00	-12.43	7.30	3	Vertical	355	1.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/01/2019

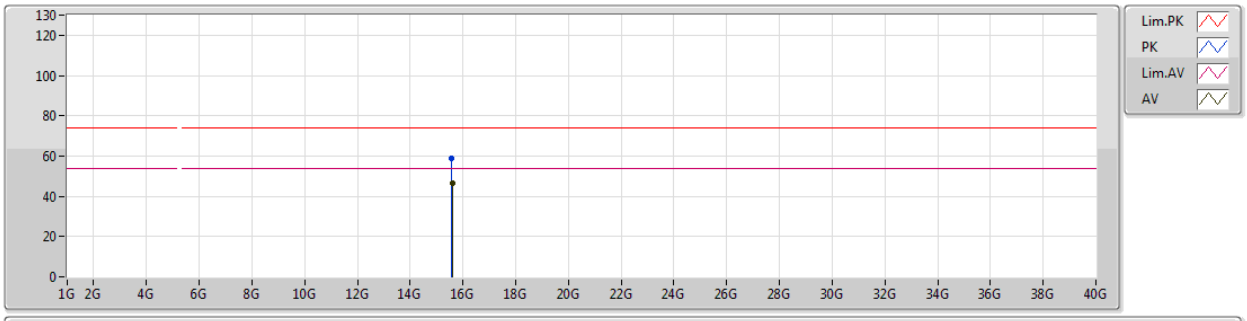


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1452G	49.40	54.00	-4.60	7.00	3	Horizontal	18	1.84	-
AV	5.2448G	108.04	Inf	-Inf	7.10	3	Horizontal	18	1.84	-
AV	5.3762G	50.09	54.00	-3.91	7.36	3	Horizontal	18	1.84	-
PK	5.129G	61.31	74.00	-12.69	7.00	3	Horizontal	18	1.84	-
PK	5.2448G	118.52	Inf	-Inf	7.10	3	Horizontal	18	1.84	-
PK	5.3618G	61.04	74.00	-12.96	7.33	3	Horizontal	18	1.84	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/01/2019

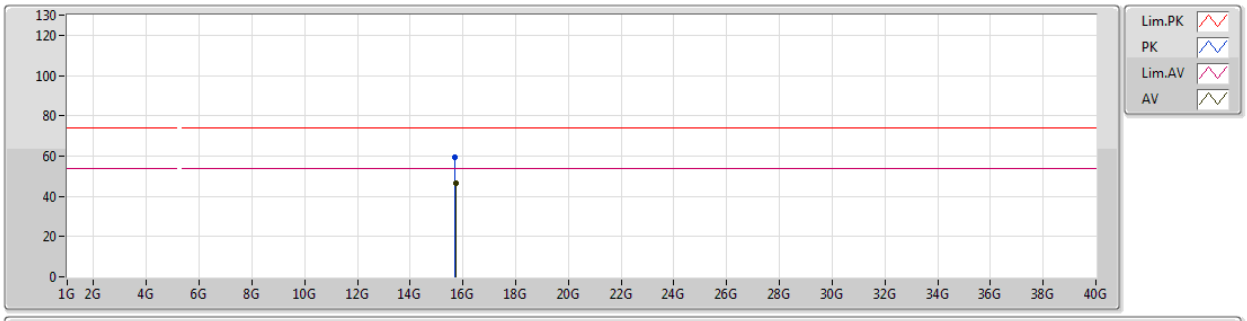


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.5916G	46.74	54.00	-7.26	16.84	3	Vertical	58	1.50	-
PK	15.5862G	58.82	74.00	-15.18	16.86	3	Vertical	58	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/01/2019

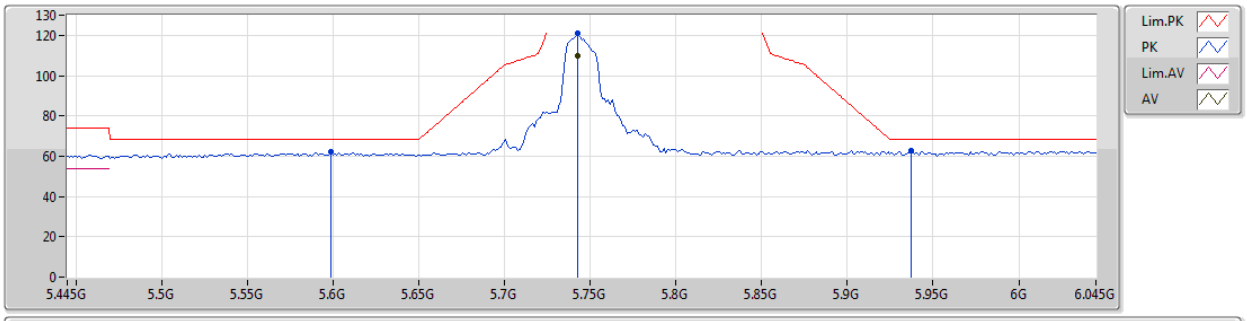


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.73332G	46.58	54.00	-7.42	16.42	3	Horizontal	104	1.50	-
PK	15.71538G	59.32	74.00	-14.68	16.47	3	Horizontal	104	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/01/2019

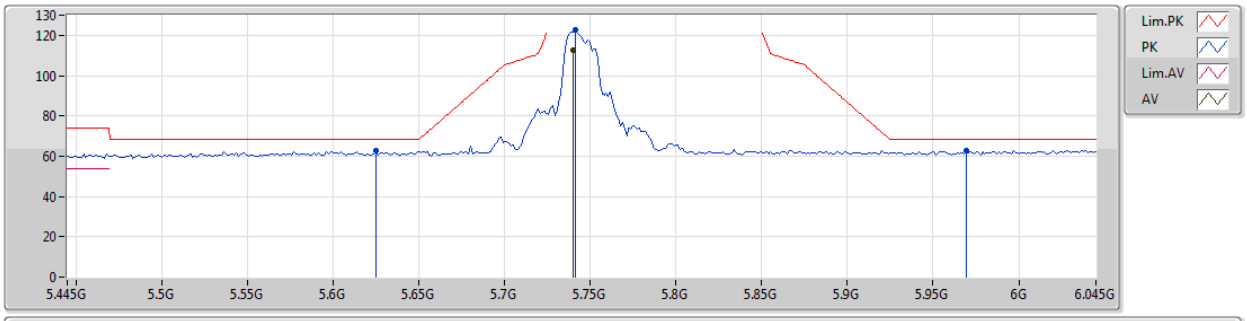


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7426G	109.83	Inf	-Inf	8.02	3	Vertical	352	2.08	-
PK	5.5986G	62.33	68.20	-5.87	7.72	3	Vertical	352	2.08	-
PK	5.7426G	121.08	Inf	-Inf	8.02	3	Vertical	352	2.08	-
PK	5.937G	62.72	68.20	-5.48	8.42	3	Vertical	352	2.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/01/2019

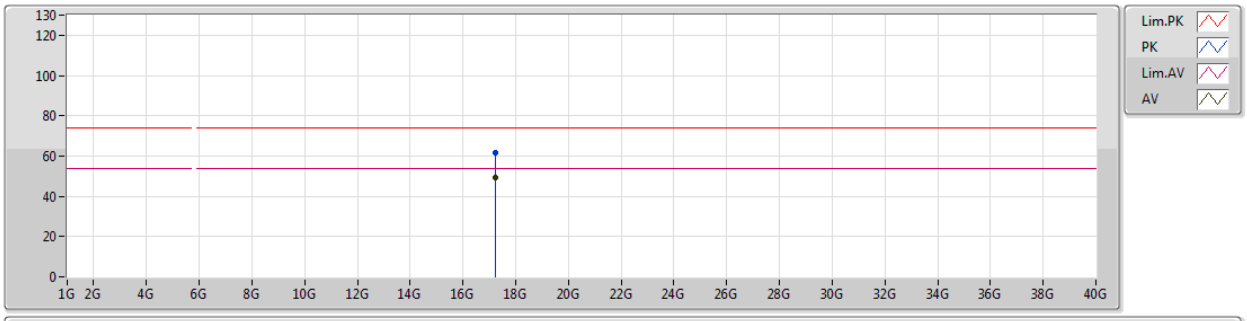


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7402G	112.36	Inf	-Inf	8.02	3	Horizontal	358	2.20	-
PK	5.625G	62.50	68.20	-5.70	7.77	3	Horizontal	358	2.20	-
PK	5.7414G	122.71	Inf	-Inf	8.02	3	Horizontal	358	2.20	-
PK	5.9694G	62.50	68.20	-5.70	8.49	3	Horizontal	358	2.20	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/01/2019

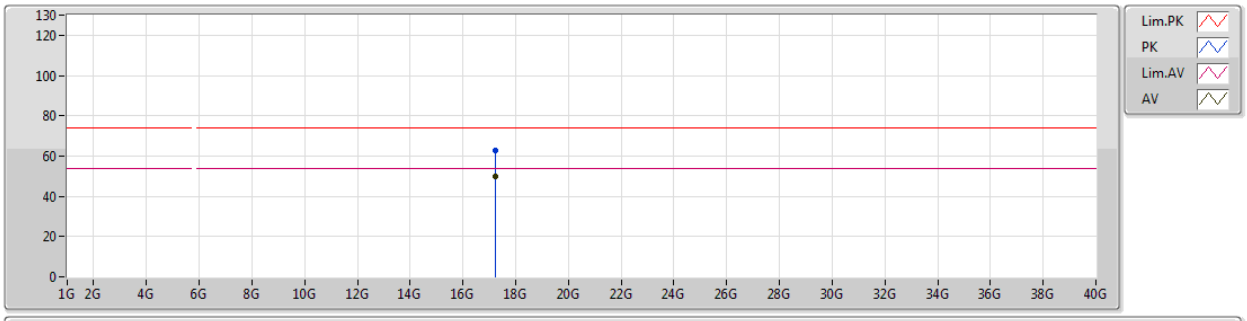


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.24064G	49.53	54.00	-4.47	19.53	3	Vertical	218	1.50	-
PK	17.2422G	61.62	74.00	-12.38	19.54	3	Vertical	218	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/01/2019

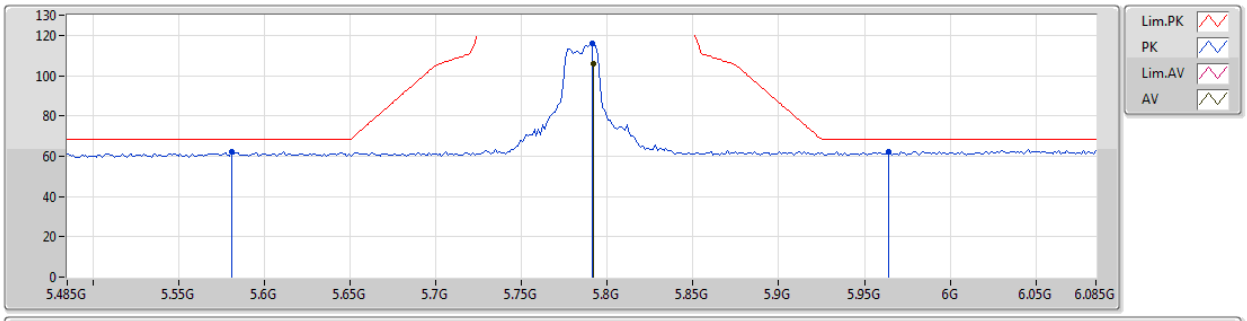


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.23872G	49.60	54.00	-4.40	19.51	3	Horizontal	321	1.47	-
PK	17.24442G	62.74	74.00	-11.26	19.56	3	Horizontal	321	1.47	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/01/2019

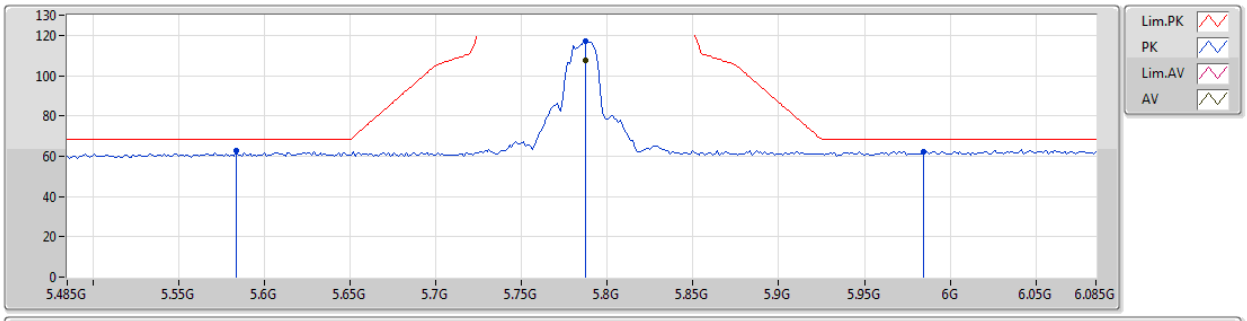


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7922G	106.10	Inf	-Inf	8.12	3	Vertical	324	2.89	-
PK	5.581G	62.21	68.20	-5.99	7.69	3	Vertical	324	2.89	-
PK	5.791G	115.90	Inf	-Inf	8.12	3	Vertical	324	2.89	-
PK	5.9638G	62.26	68.20	-5.94	8.48	3	Vertical	324	2.89	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/01/2019

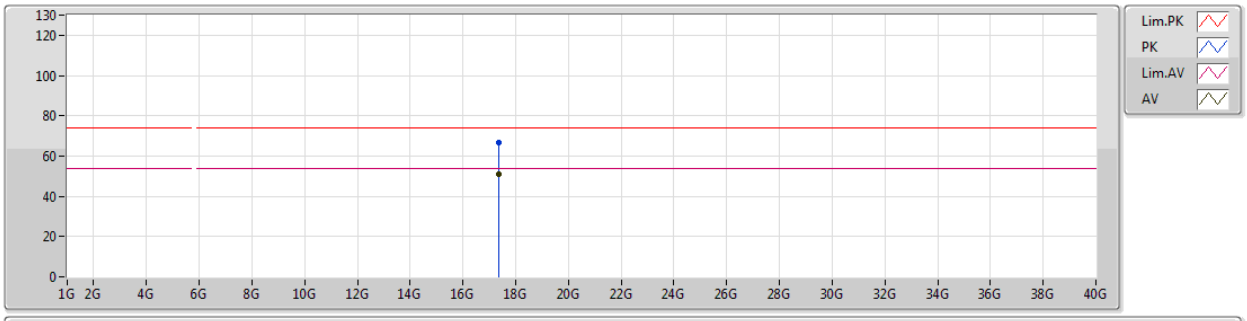


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7874G	107.82	Inf	-Inf	8.12	3	Horizontal	333	1.08	-
PK	5.5834G	62.56	68.20	-5.64	7.69	3	Horizontal	333	1.08	-
PK	5.7874G	117.23	Inf	-Inf	8.12	3	Horizontal	333	1.08	-
PK	5.9842G	62.19	68.20	-6.01	8.51	3	Horizontal	333	1.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/01/2019

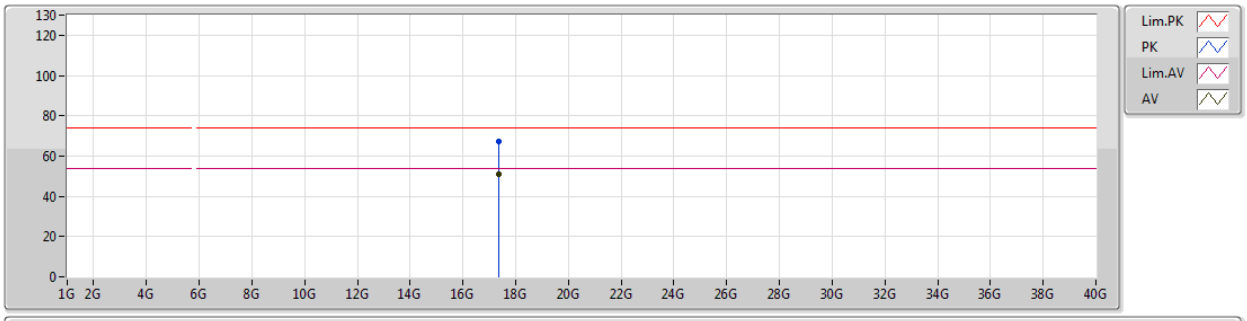


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.35854G	50.94	54.00	-3.06	20.45	3	Vertical	360	2.99	-
PK	17.35356G	66.58	74.00	-7.42	20.40	3	Vertical	360	2.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/01/2019

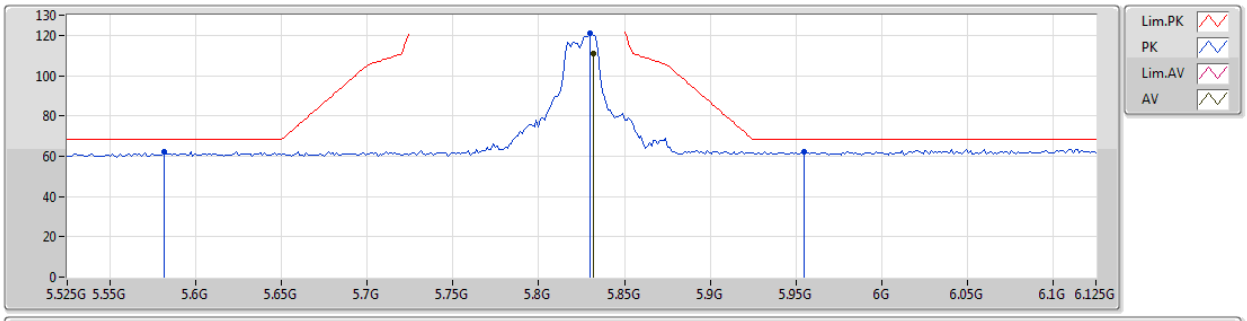


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.35674G	51.00	54.00	-3.00	20.42	3	Horizontal	340	2.64	-
PK	17.35746G	67.29	74.00	-6.71	20.44	3	Horizontal	340	2.64	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

26/01/2019

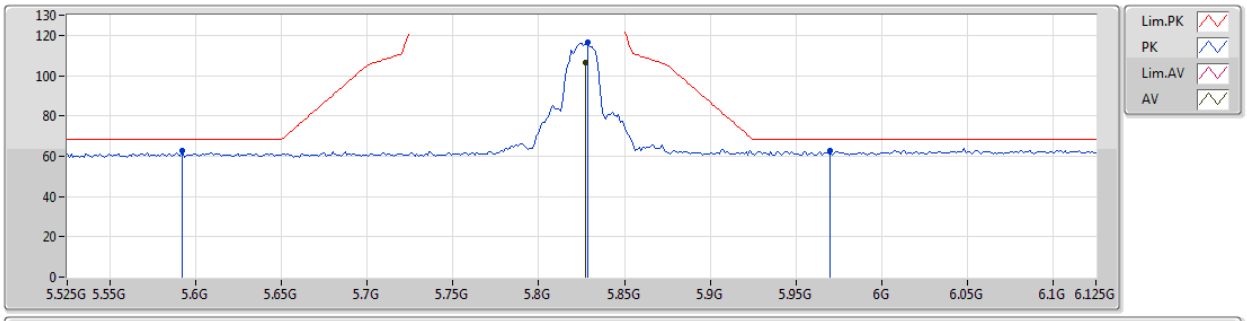


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8322G	111.01	Inf	-Inf	8.21	3	Vertical	330	2.73	-
PK	5.5814G	62.31	68.20	-5.89	7.69	3	Vertical	330	2.73	-
PK	5.8298G	120.84	Inf	-Inf	8.20	3	Vertical	330	2.73	-
PK	5.9546G	62.23	68.20	-5.97	8.46	3	Vertical	330	2.73	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

26/01/2019

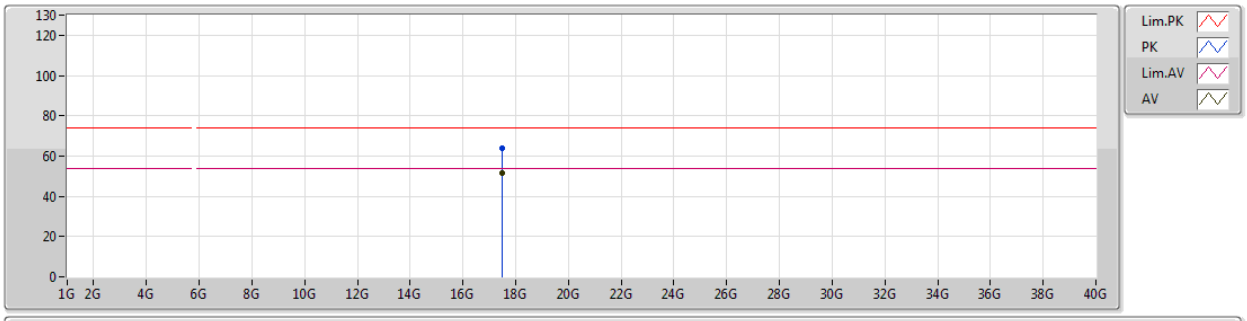


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8274G	106.58	Inf	-Inf	8.20	3	Horizontal	335	1.43	-
PK	5.5922G	62.87	68.20	-5.33	7.70	3	Horizontal	335	1.43	-
PK	5.8286G	116.41	Inf	-Inf	8.20	3	Horizontal	335	1.43	-
PK	5.9702G	62.60	68.20	-5.60	8.49	3	Horizontal	335	1.43	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

26/01/2019

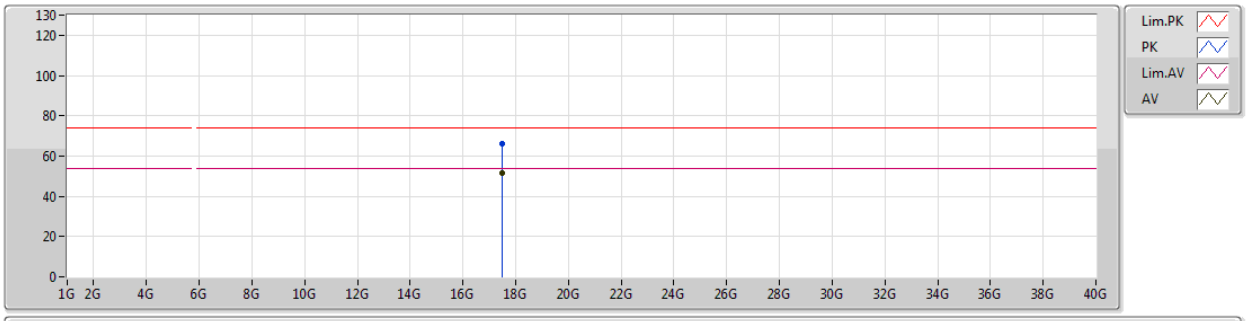


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.48616G	51.60	54.00	-2.40	21.43	3	Vertical	168	1.50	-
PK	17.48316G	64.06	74.00	-9.94	21.41	3	Vertical	168	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

26/01/2019

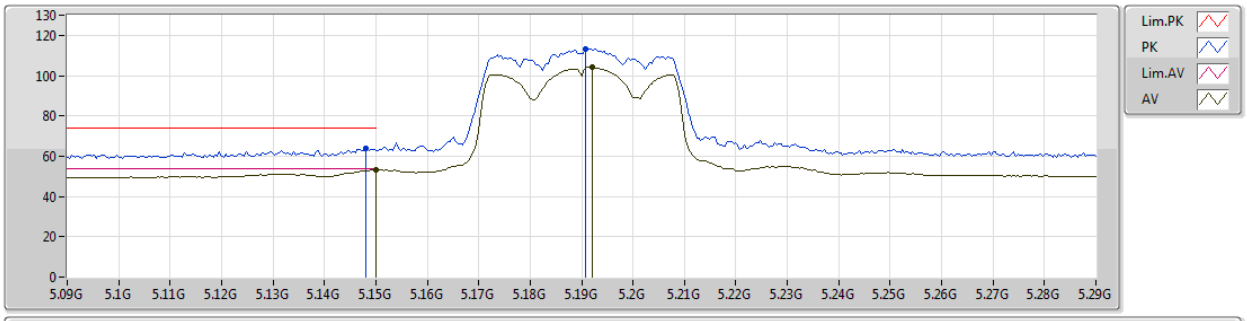


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.47308G	51.76	54.00	-2.24	21.32	3	Horizontal	320	1.69	-
PK	17.47032G	66.32	74.00	-7.68	21.30	3	Horizontal	320	1.69	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

26/01/2019

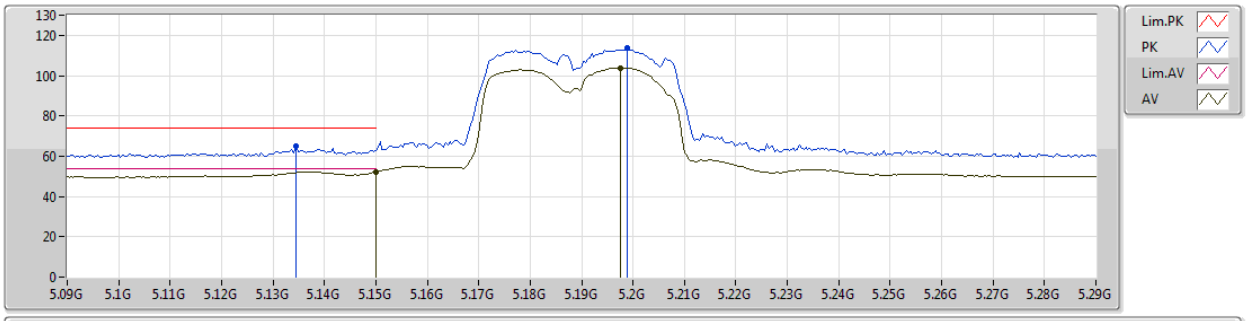


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	53.27	54.00	-0.73	7.00	3	Vertical	356	1.76	-
AV	5.192G	104.07	Inf	-Inf	7.02	3	Vertical	356	1.76	-
PK	5.148G	63.89	74.00	-10.11	7.00	3	Vertical	356	1.76	-
PK	5.1908G	113.19	Inf	-Inf	7.01	3	Vertical	356	1.76	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

26/01/2019

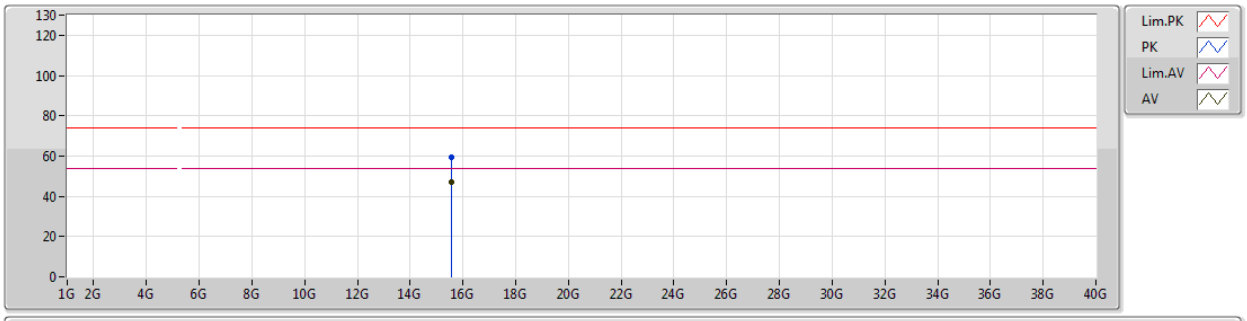


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	52.35	54.00	-1.65	7.00	3	Horizontal	327	2.52	-
AV	5.1976G	103.94	Inf	-Inf	7.02	3	Horizontal	327	2.52	-
PK	5.1344G	65.11	74.00	-8.89	7.00	3	Horizontal	327	2.52	-
PK	5.1988G	113.56	Inf	-Inf	7.02	3	Horizontal	327	2.52	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

26/01/2019

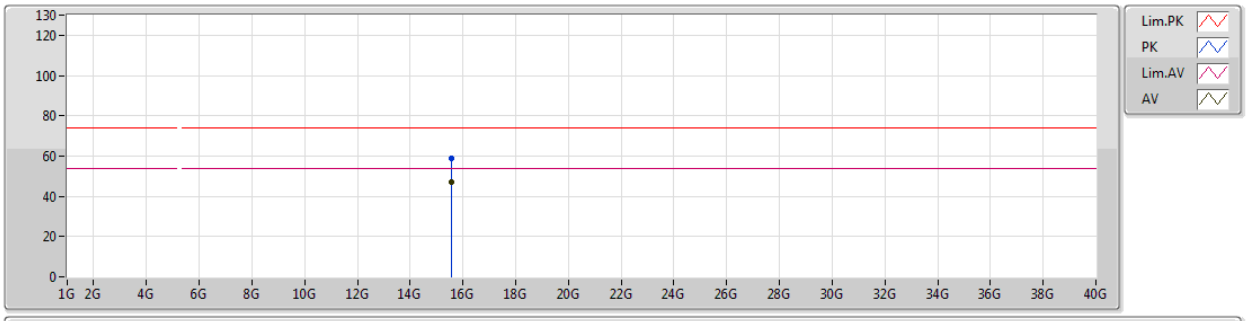


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.57252G	47.20	54.00	-6.80	16.90	3	Vertical	175	2.79	-
PK	15.57582G	59.38	74.00	-14.62	16.89	3	Vertical	175	2.79	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

26/01/2019

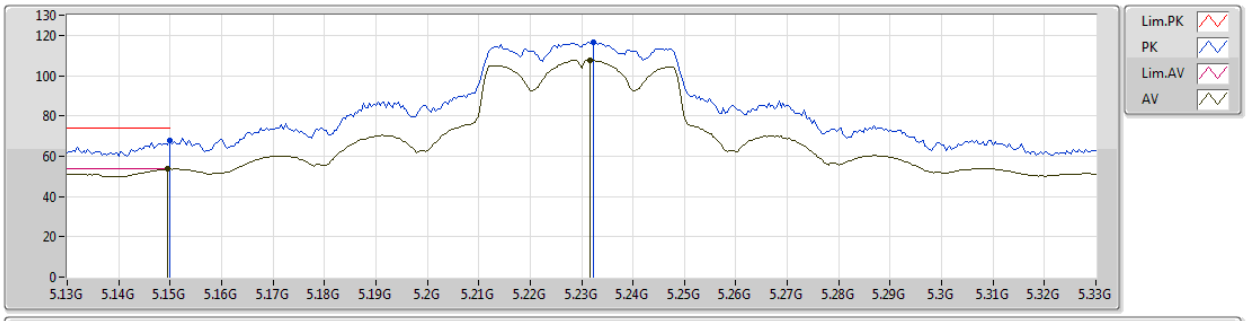


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.55698G	47.15	54.00	-6.85	16.95	3	Horizontal	190	1.67	-
PK	15.57432G	58.95	74.00	-15.05	16.90	3	Horizontal	190	1.67	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

26/01/2019

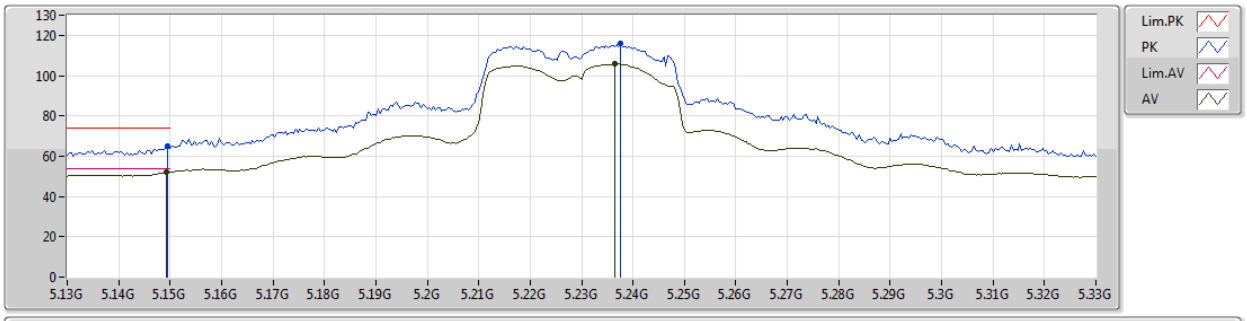


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1496G	53.63	54.00	-0.37	7.00	3	Vertical	358	1.76	-
AV	5.2316G	107.85	Inf	-Inf	7.08	3	Vertical	358	1.76	-
PK	5.15G	67.94	74.00	-6.06	7.00	3	Vertical	358	1.76	-
PK	5.2324G	116.66	Inf	-Inf	7.08	3	Vertical	358	1.76	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

26/01/2019

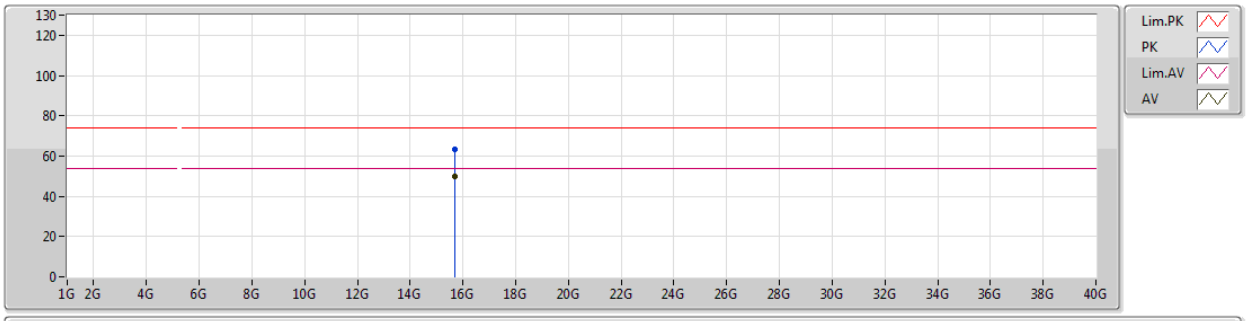


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1492G	51.93	54.00	-2.07	7.00	3	Horizontal	16	1.50	-
AV	5.2364G	105.72	Inf	-Inf	7.08	3	Horizontal	16	1.50	-
PK	5.1496G	64.73	74.00	-9.27	7.00	3	Horizontal	16	1.50	-
PK	5.2376G	115.91	Inf	-Inf	7.08	3	Horizontal	16	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

26/01/2019

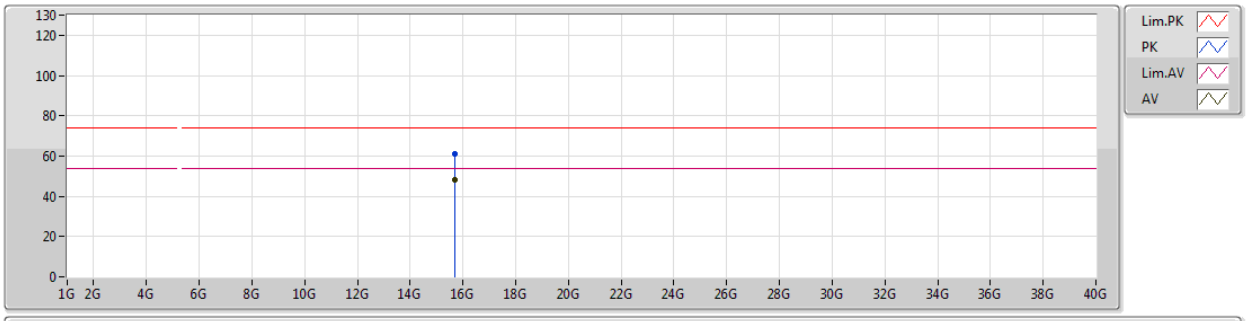


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.69396G	49.94	54.00	-4.06	16.53	3	Vertical	359	2.55	-
PK	15.69348G	63.58	74.00	-10.42	16.53	3	Vertical	359	2.55	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

26/01/2019

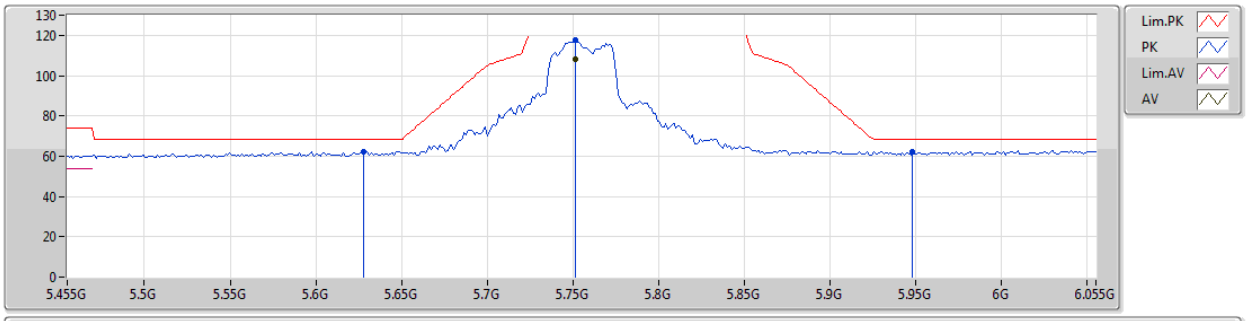


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.69726G	48.12	54.00	-5.88	16.52	3	Horizontal	298	1.50	-
PK	15.67596G	61.23	74.00	-12.77	16.59	3	Horizontal	298	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/01/2019

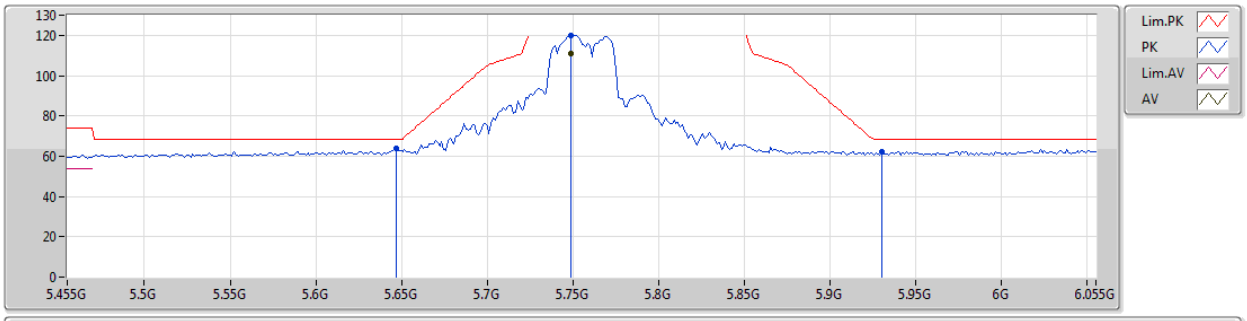


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7514G	108.11	Inf	-Inf	8.04	3	Vertical	353	2.09	-
PK	5.6278G	62.16	68.20	-6.04	7.78	3	Vertical	353	2.09	-
PK	5.7514G	117.83	Inf	-Inf	8.04	3	Vertical	353	2.09	-
PK	5.9482G	62.38	68.20	-5.82	8.45	3	Vertical	353	2.09	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/01/2019

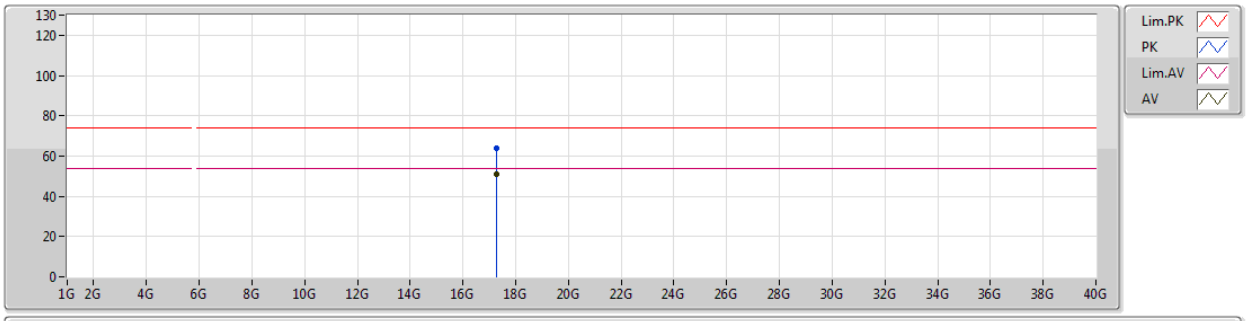


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.749G	111.21	Inf	-Inf	8.04	3	Horizontal	359	2.15	-
PK	5.647G	63.73	68.20	-4.47	7.83	3	Horizontal	359	2.15	-
PK	5.749G	120.08	Inf	-Inf	8.04	3	Horizontal	359	2.15	-
PK	5.9302G	62.34	68.20	-5.86	8.40	3	Horizontal	359	2.15	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/01/2019

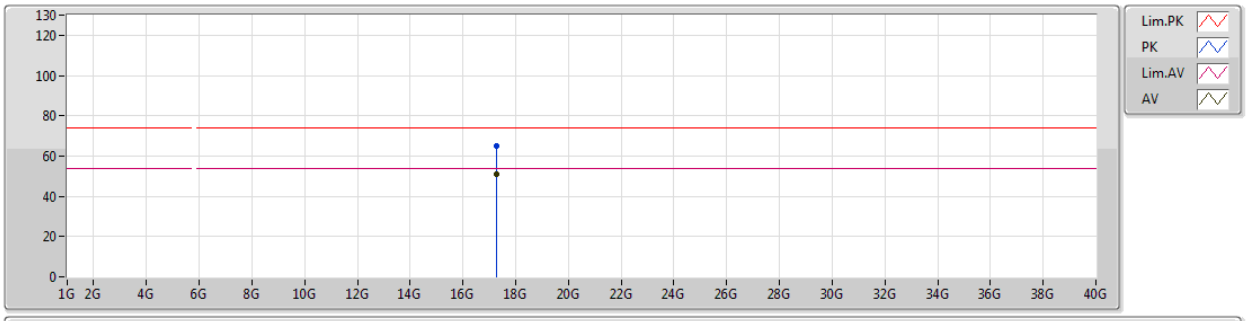


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.26692G	51.24	54.00	-2.76	19.73	3	Vertical	29	1.65	-
PK	17.26566G	63.73	74.00	-10.27	19.71	3	Vertical	29	1.65	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/01/2019

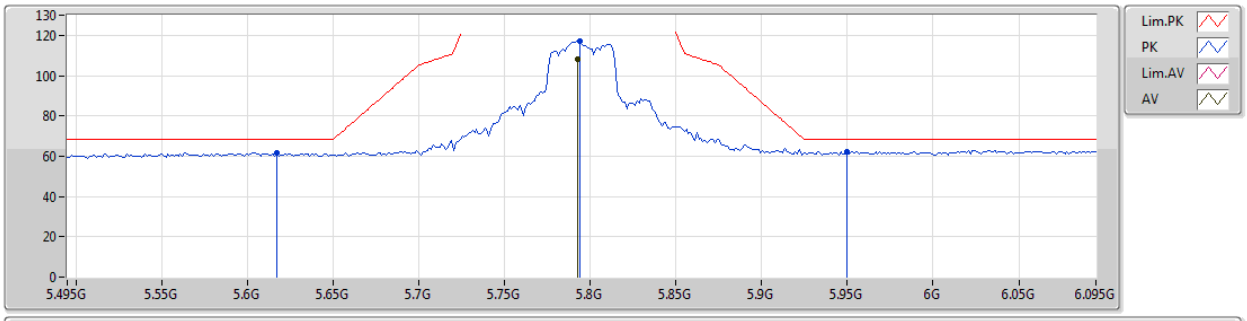


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.27136G	51.26	54.00	-2.74	19.77	3	Horizontal	18	1.49	-
PK	17.26902G	65.21	74.00	-8.79	19.75	3	Horizontal	18	1.49	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

26/01/2019

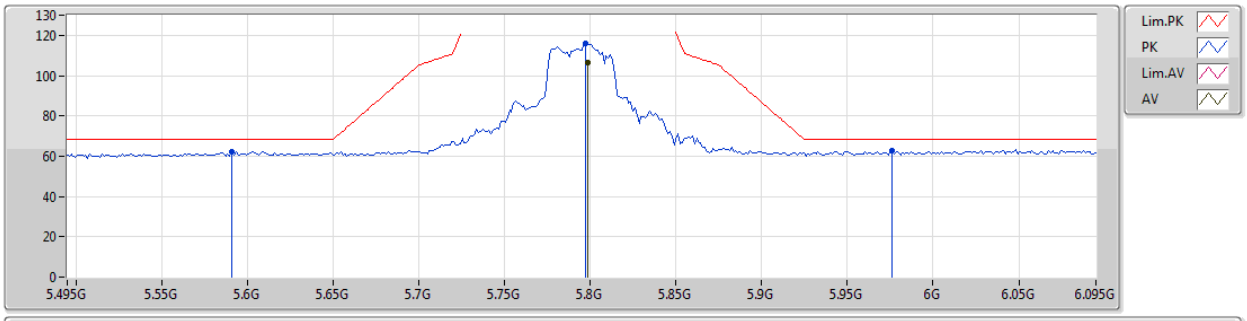


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7926G	108.14	Inf	-Inf	8.12	3	Vertical	352	2.09	-
PK	5.6174G	61.80	68.20	-6.40	7.75	3	Vertical	352	2.09	-
PK	5.7938G	116.98	Inf	-Inf	8.12	3	Vertical	352	2.09	-
PK	5.9498G	62.32	68.20	-5.88	8.45	3	Vertical	352	2.09	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

26/01/2019

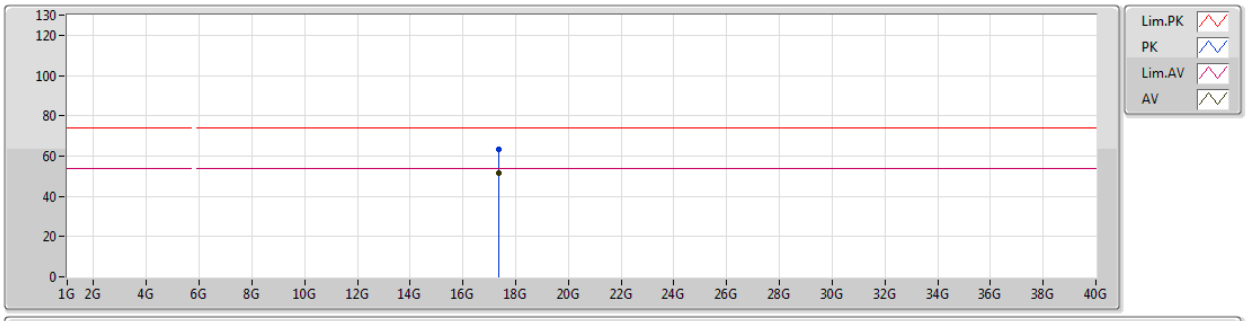


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7986G	106.68	Inf	-Inf	8.14	3	Horizontal	334	1.03	-
PK	5.591G	62.28	68.20	-5.92	7.70	3	Horizontal	334	1.03	-
PK	5.7974G	115.95	Inf	-Inf	8.14	3	Horizontal	334	1.03	-
PK	5.9762G	62.75	68.20	-5.45	8.51	3	Horizontal	334	1.03	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

27/01/2019

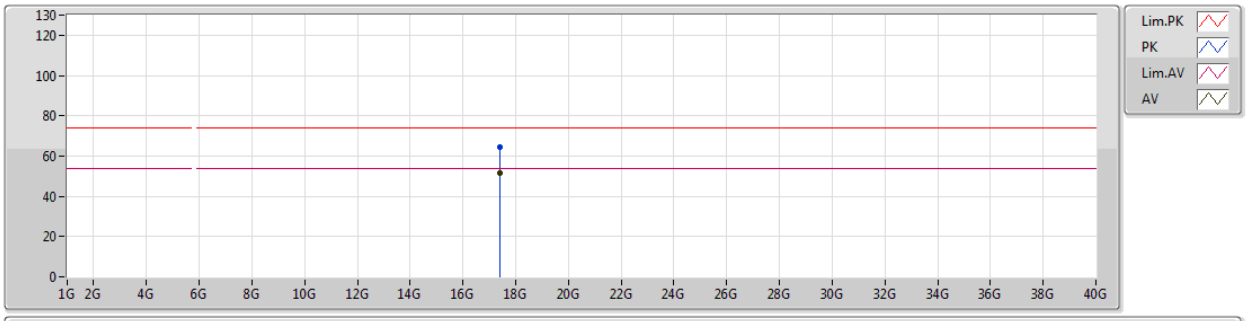


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.37984G	51.34	54.00	-2.66	20.61	3	Vertical	344	1.90	-
PK	17.37432G	63.21	74.00	-10.79	20.57	3	Vertical	344	1.90	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

27/01/2019

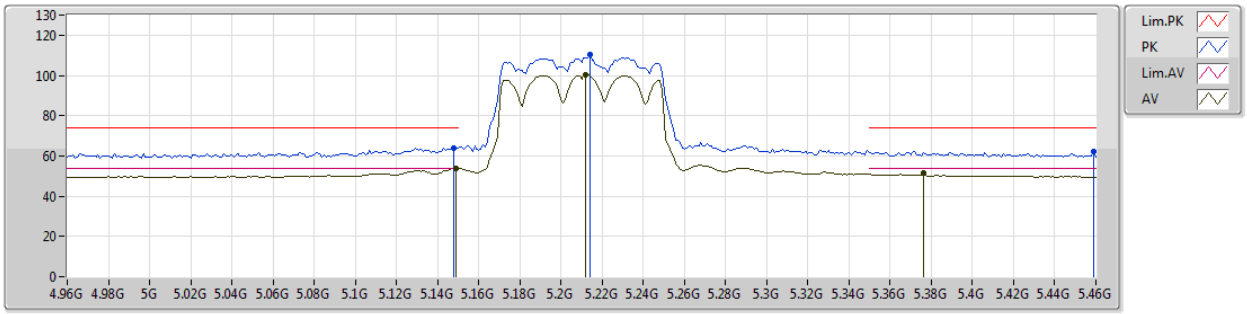


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.38212G	51.82	54.00	-2.18	20.62	3	Horizontal	317	1.65	-
PK	17.382G	64.18	74.00	-9.82	20.62	3	Horizontal	317	1.65	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

27/01/2019

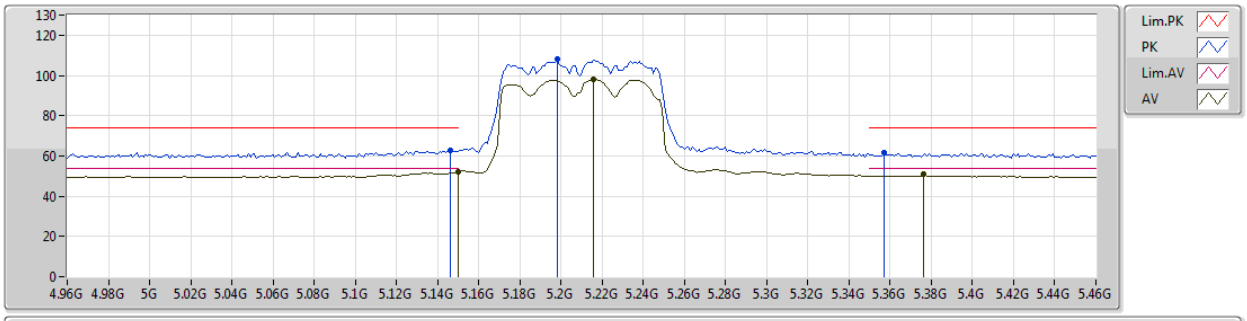


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149G	53.87	54.00	-0.13	7.00	3	Vertical	356	1.73	-
AV	5.212G	100.27	Inf	-Inf	7.04	3	Vertical	356	1.73	-
AV	5.376G	51.44	54.00	-2.56	7.36	3	Vertical	356	1.73	-
PK	5.148G	64.10	74.00	-9.90	7.00	3	Vertical	356	1.73	-
PK	5.214G	110.59	Inf	-Inf	7.05	3	Vertical	356	1.73	-
PK	5.459G	62.24	74.00	-11.76	7.49	3	Vertical	356	1.73	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

27/01/2019

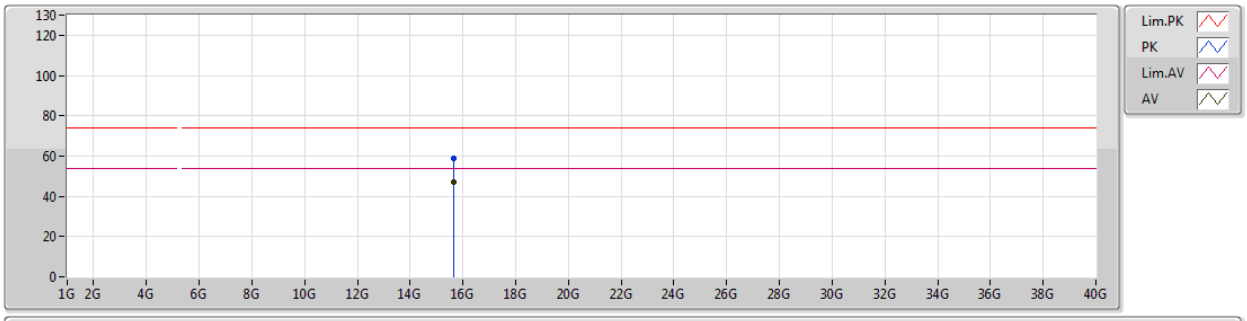


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	52.07	54.00	-1.93	7.00	3	Horizontal	15	1.50	-
AV	5.216G	98.07	Inf	-Inf	7.05	3	Horizontal	15	1.50	-
AV	5.376G	51.12	54.00	-2.88	7.36	3	Horizontal	15	1.50	-
PK	5.146G	63.01	74.00	-10.99	7.00	3	Horizontal	15	1.50	-
PK	5.198G	108.23	Inf	-Inf	7.02	3	Horizontal	15	1.50	-
PK	5.357G	61.75	74.00	-12.25	7.31	3	Horizontal	15	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

27/01/2019

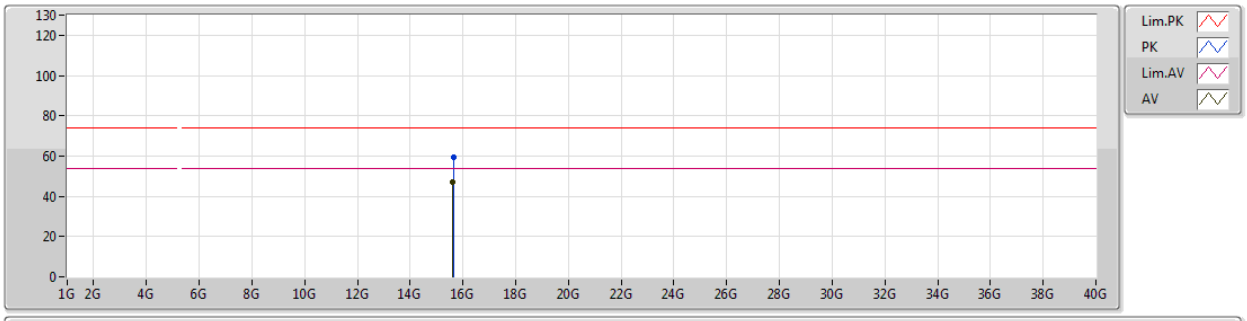


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.63108G	47.07	54.00	-6.93	16.72	3	Vertical	62	2.46	-
PK	15.63318G	58.96	74.00	-15.04	16.72	3	Vertical	62	2.46	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

27/01/2019

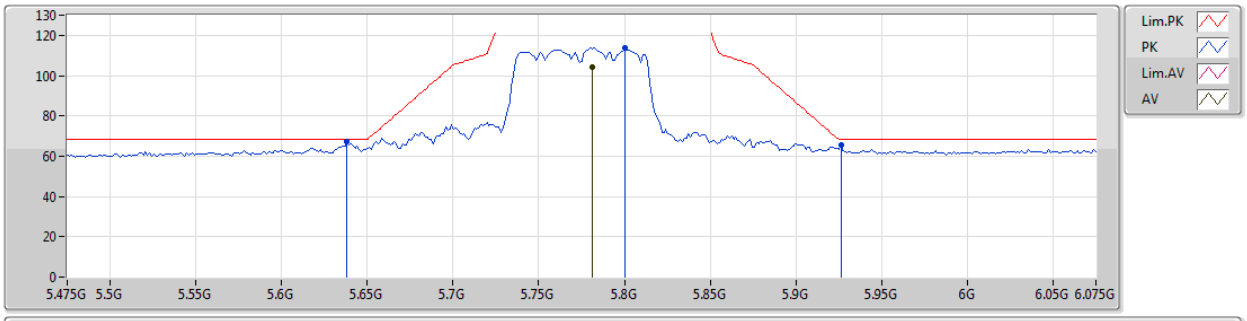


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.62556G	47.22	54.00	-6.78	16.75	3	Horizontal	278	1.50	-
PK	15.63774G	59.41	74.00	-14.59	16.70	3	Horizontal	278	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

27/01/2019

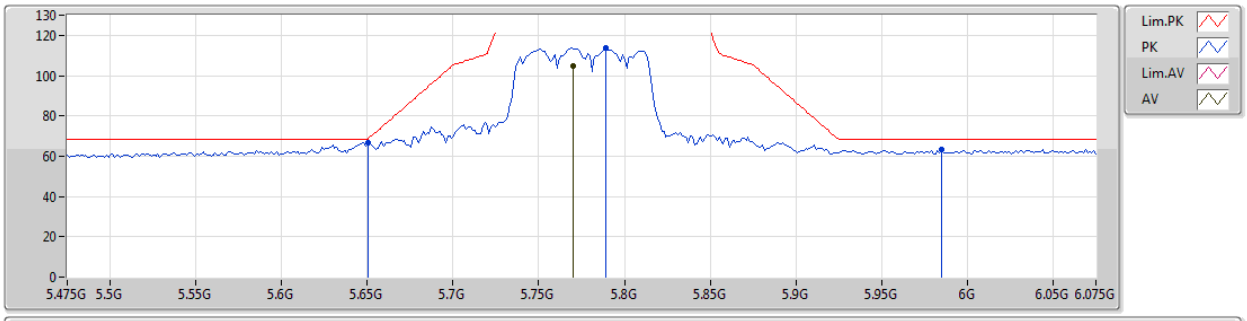


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.781G	104.31	Inf	-Inf	8.10	3	Vertical	330	2.76	-
PK	5.6382G	67.26	68.20	-0.94	7.80	3	Vertical	330	2.76	-
PK	5.8002G	113.94	Inf	-Inf	8.14	3	Vertical	330	2.76	-
PK	5.9262G	65.42	68.20	-2.78	8.40	3	Vertical	330	2.76	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

27/01/2019

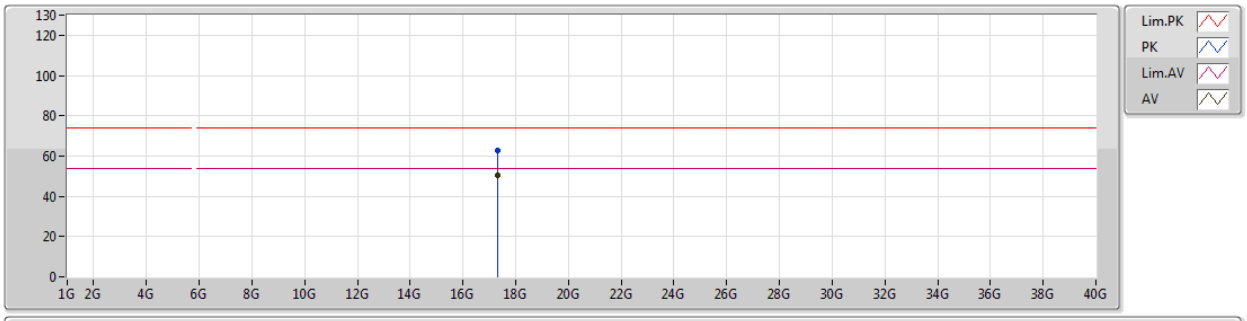


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7702G	104.73	Inf	-Inf	8.08	3	Horizontal	0	2.24	-
PK	5.6502G	66.80	68.35	-1.55	7.82	3	Horizontal	0	2.24	-
PK	5.7894G	113.97	Inf	-Inf	8.12	3	Horizontal	0	2.24	-
PK	5.985G	63.14	68.20	-5.06	8.52	3	Horizontal	0	2.24	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

27/01/2019

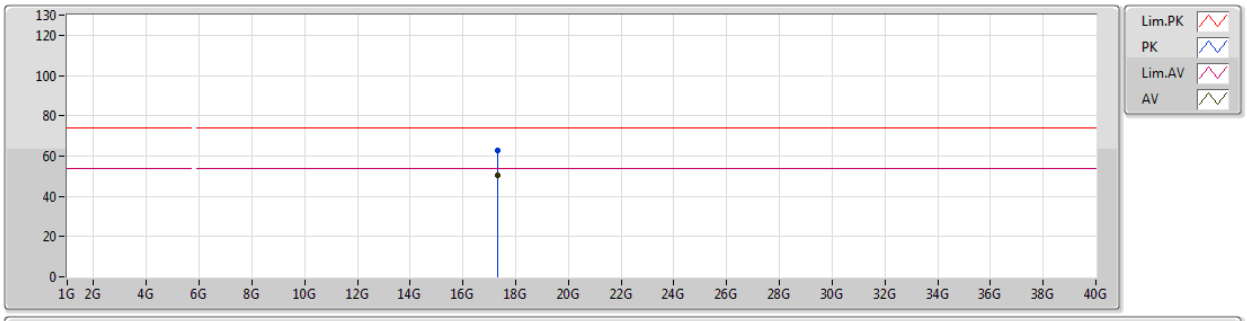


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.33502G	50.70	54.00	-3.30	20.26	3	Vertical	130	1.84	-
PK	17.3172G	62.63	74.00	-11.37	20.11	3	Vertical	130	1.84	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

27/01/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	17.33478G	50.70	54.00	-3.30	20.26	3	Horizontal	250	1.50	-
PK	17.33778G	62.79	74.00	-11.21	20.28	3	Horizontal	250	1.50	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	11.65162G	46.04	54.00	-7.96	13.43	3	Vertical	13	1.74	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	11.65432G	42.94	54.00	-11.06	13.42	3	Horizontal	52	2.07	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.6326G	57.44	68.20	-10.76	3.41	3	Horizontal	348	1.50	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.649G	67.49	68.20	-0.71	3.44	3	Horizontal	186	1.01	-

Result

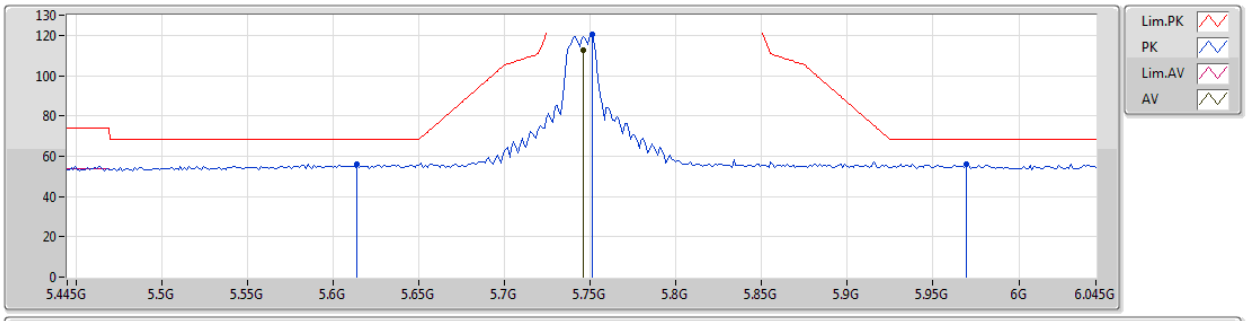
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7462G	112.64	Inf	-Inf	3.62	3	Horizontal	338	1.50	-
5745MHz	Pass	PK	5.6142G	55.88	68.20	-12.32	3.37	3	Horizontal	338	1.50	-
5745MHz	Pass	PK	5.751G	120.39	Inf	-Inf	3.64	3	Horizontal	338	1.50	-
5745MHz	Pass	PK	5.9694G	55.82	68.20	-12.38	4.07	3	Horizontal	338	1.50	-
5745MHz	Pass	AV	11.49066G	45.12	54.00	-8.88	13.58	3	Vertical	5	2.55	-
5745MHz	Pass	PK	11.49138G	55.13	74.00	-18.87	13.58	3	Vertical	5	2.55	-
5745MHz	Pass	AV	11.49024G	44.85	54.00	-9.15	13.58	3	Horizontal	308	1.46	-
5745MHz	Pass	PK	11.49156G	55.25	74.00	-18.75	13.58	3	Horizontal	308	1.46	-
5785MHz	Pass	AV	5.7814G	111.91	Inf	-Inf	3.69	3	Horizontal	337	1.49	-
5785MHz	Pass	PK	5.5294G	56.41	68.20	-11.79	3.20	3	Horizontal	337	1.49	-
5785MHz	Pass	PK	5.7814G	119.40	Inf	-Inf	3.69	3	Horizontal	337	1.49	-
5785MHz	Pass	PK	5.9326G	56.18	68.20	-12.02	4.00	3	Horizontal	337	1.49	-
5785MHz	Pass	AV	11.57132G	44.32	54.00	-9.68	13.51	3	Vertical	14	2.84	-
5785MHz	Pass	PK	11.58194G	54.54	74.00	-19.46	13.50	3	Vertical	14	2.84	-
5785MHz	Pass	AV	11.57612G	44.91	54.00	-9.09	13.50	3	Horizontal	14	2.84	-
5785MHz	Pass	PK	11.57102G	55.59	74.00	-18.41	13.51	3	Horizontal	14	2.84	-
5825MHz	Pass	AV	5.7122G	46.95	Inf	-Inf	3.57	3	Horizontal	336	1.50	-
5825MHz	Pass	AV	5.8262G	110.54	Inf	-Inf	3.79	3	Horizontal	336	1.50	-
5825MHz	Pass	AV	5.8514G	61.08	Inf	-Inf	3.83	3	Horizontal	336	1.50	-
5825MHz	Pass	PK	5.6186G	56.00	68.20	-12.20	3.38	3	Horizontal	336	1.50	-
5825MHz	Pass	PK	5.8214G	118.04	Inf	-Inf	3.77	3	Horizontal	336	1.50	-
5825MHz	Pass	PK	5.9822G	56.65	68.20	-11.55	4.10	3	Horizontal	336	1.50	-
5825MHz	Pass	AV	11.65162G	46.04	54.00	-7.96	13.43	3	Vertical	13	1.74	-
5825MHz	Pass	PK	11.6557G	56.44	74.00	-17.56	13.42	3	Vertical	13	1.74	-
5825MHz	Pass	AV	11.6518G	45.98	54.00	-8.02	13.43	3	Horizontal	24	1.87	-
5825MHz	Pass	PK	11.6521G	55.77	74.00	-18.23	13.43	3	Horizontal	24	1.87	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7474G	110.68	Inf	-Inf	3.63	3	Horizontal	352	1.50	-
5745MHz	Pass	PK	5.6094G	56.24	68.20	-11.96	3.36	3	Horizontal	352	1.50	-
5745MHz	Pass	PK	5.7498G	121.37	Inf	-Inf	3.63	3	Horizontal	352	1.50	-
5745MHz	Pass	PK	5.9382G	56.17	68.20	-12.03	4.01	3	Horizontal	352	1.50	-
5745MHz	Pass	AV	11.49288G	42.72	54.00	-11.28	13.58	3	Vertical	18	2.74	-
5745MHz	Pass	PK	11.4936G	56.26	74.00	-17.74	13.58	3	Vertical	18	2.74	-
5745MHz	Pass	AV	11.49036G	41.94	54.00	-12.06	13.58	3	Horizontal	320	1.48	-
5745MHz	Pass	PK	11.4927G	55.98	74.00	-18.02	13.58	3	Horizontal	320	1.48	-
5785MHz	Pass	AV	5.7898G	109.55	Inf	-Inf	3.71	3	Horizontal	353	1.61	-
5785MHz	Pass	PK	5.6314G	56.55	68.20	-11.65	3.40	3	Horizontal	353	1.61	-
5785MHz	Pass	PK	5.7898G	120.01	Inf	-Inf	3.71	3	Horizontal	353	1.61	-
5785MHz	Pass	PK	5.9326G	56.87	68.20	-11.33	4.00	3	Horizontal	353	1.61	-
5785MHz	Pass	AV	11.57396G	42.11	54.00	-11.89	13.51	3	Vertical	26	1.68	-
5785MHz	Pass	PK	11.57444G	55.94	74.00	-18.06	13.51	3	Vertical	26	1.68	-
5785MHz	Pass	AV	11.57378G	41.53	54.00	-12.47	13.51	3	Horizontal	23	1.69	-
5785MHz	Pass	PK	11.55692G	54.68	74.00	-19.32	13.52	3	Horizontal	23	1.69	-
5825MHz	Pass	AV	5.8274G	107.78	Inf	-Inf	3.79	3	Horizontal	352	1.01	-
5825MHz	Pass	PK	5.6066G	56.20	68.20	-12.00	3.35	3	Horizontal	352	1.01	-
5825MHz	Pass	PK	5.8274G	117.74	Inf	-Inf	3.79	3	Horizontal	352	1.01	-
5825MHz	Pass	PK	5.9642G	56.70	68.20	-11.50	4.05	3	Horizontal	352	1.01	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	AV	11.65396G	42.83	54.00	-11.17	13.42	3	Vertical	29	1.50	-
5825MHz	Pass	PK	11.6548G	55.86	74.00	-18.14	13.42	3	Vertical	29	1.50	-
5825MHz	Pass	AV	11.65432G	42.94	54.00	-11.06	13.42	3	Horizontal	52	2.07	-
5825MHz	Pass	PK	11.65438G	56.03	74.00	-17.97	13.42	3	Horizontal	52	2.07	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.7598G	109.73	Inf	-Inf	3.65	3	Horizontal	348	1.50	-
5755MHz	Pass	PK	5.6326G	57.44	68.20	-10.76	3.41	3	Horizontal	348	1.50	-
5755MHz	Pass	PK	5.7586G	118.80	Inf	-Inf	3.65	3	Horizontal	348	1.50	-
5755MHz	Pass	PK	5.9482G	56.14	68.20	-12.06	4.03	3	Horizontal	348	1.50	-
5755MHz	Pass	AV	11.51024G	42.41	54.00	-11.59	13.56	3	Vertical	337	2.85	-
5755MHz	Pass	PK	11.49566G	54.92	74.00	-19.08	13.58	3	Vertical	337	2.85	-
5755MHz	Pass	AV	11.5157G	42.21	54.00	-11.79	13.55	3	Horizontal	336	1.69	-
5755MHz	Pass	PK	11.51486G	55.07	74.00	-18.93	13.55	3	Horizontal	336	1.69	-
5795MHz	Pass	AV	5.7998G	108.35	Inf	-Inf	3.73	3	Horizontal	347	1.46	-
5795MHz	Pass	PK	5.5994G	56.68	68.20	-11.52	3.34	3	Horizontal	347	1.46	-
5795MHz	Pass	PK	5.7986G	117.23	Inf	-Inf	3.73	3	Horizontal	347	1.46	-
5795MHz	Pass	PK	5.927G	56.53	68.20	-11.67	3.99	3	Horizontal	347	1.46	-
5795MHz	Pass	AV	11.59522G	42.91	54.00	-11.09	13.49	3	Vertical	25	1.72	-
5795MHz	Pass	PK	11.59096G	55.22	74.00	-18.78	13.49	3	Vertical	25	1.72	-
5795MHz	Pass	AV	11.5903G	43.10	54.00	-10.90	13.49	3	Horizontal	29	1.94	-
5795MHz	Pass	PK	11.58964G	55.63	74.00	-18.37	13.49	3	Horizontal	29	1.94	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.7522G	104.38	Inf	-Inf	3.64	3	Horizontal	186	1.01	-
5775MHz	Pass	PK	5.649G	67.49	68.20	-0.71	3.44	3	Horizontal	186	1.01	-
5775MHz	Pass	PK	5.7534G	113.75	Inf	-Inf	3.64	3	Horizontal	186	1.01	-
5775MHz	Pass	PK	5.9346G	62.60	68.20	-5.60	4.00	3	Horizontal	186	1.01	-
5775MHz	Pass	AV	11.53638G	41.43	54.00	-12.57	13.54	3	Vertical	74	1.50	-
5775MHz	Pass	PK	11.565G	53.96	74.00	-20.04	13.51	3	Vertical	74	1.50	-
5775MHz	Pass	AV	11.5392G	41.84	54.00	-12.16	13.54	3	Horizontal	178	2.32	-
5775MHz	Pass	PK	11.55588G	54.35	74.00	-19.65	13.52	3	Horizontal	178	2.32	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/01/2019

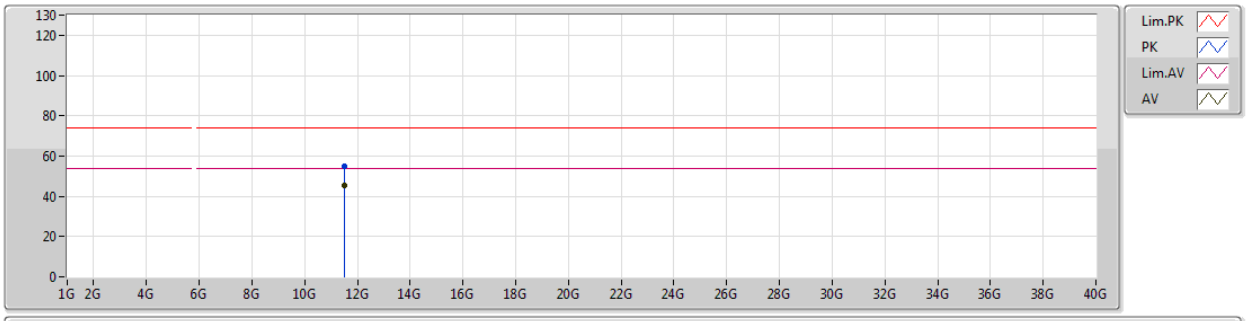


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7462G	112.64	Inf	-Inf	3.62	3	Horizontal	338	1.50	-
PK	5.6142G	55.88	68.20	-12.32	3.37	3	Horizontal	338	1.50	-
PK	5.751G	120.39	Inf	-Inf	3.64	3	Horizontal	338	1.50	-
PK	5.9694G	55.82	68.20	-12.38	4.07	3	Horizontal	338	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/01/2019

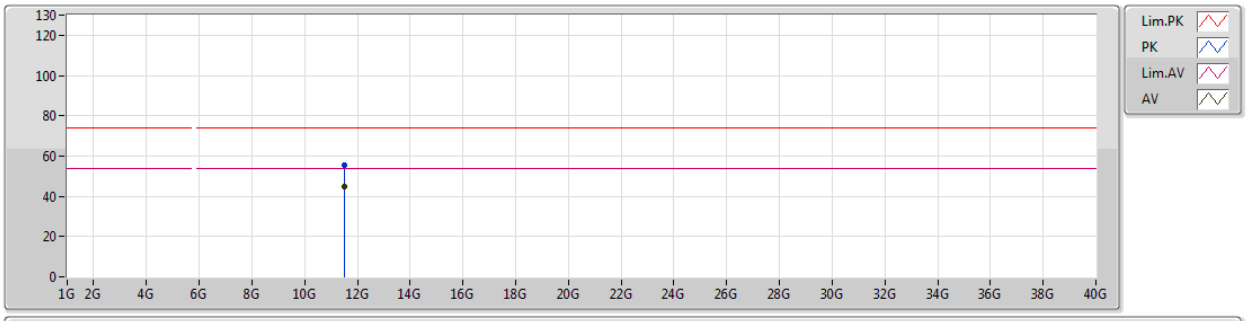


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.49066G	45.12	54.00	-8.88	13.58	3	Vertical	5	2.55	-
PK	11.49138G	55.13	74.00	-18.87	13.58	3	Vertical	5	2.55	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/01/2019

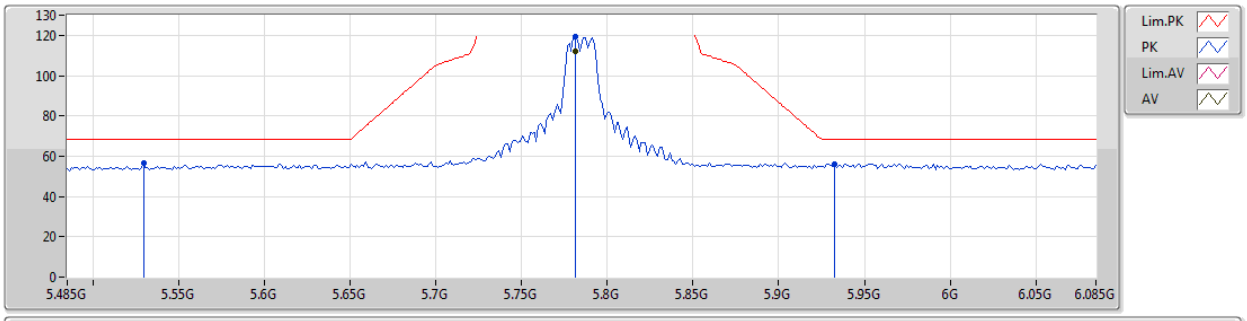


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.49024G	44.85	54.00	-9.15	13.58	3	Horizontal	308	1.46	-
PK	11.49156G	55.25	74.00	-18.75	13.58	3	Horizontal	308	1.46	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/01/2019

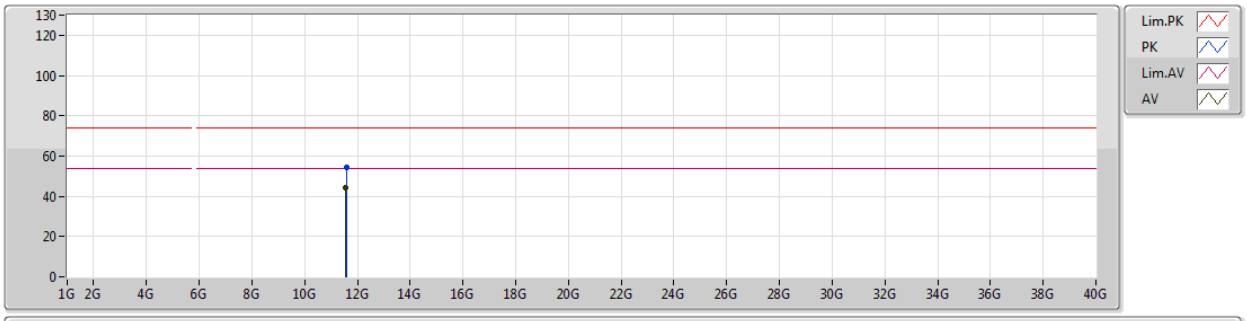


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7814G	111.91	Inf	-Inf	3.69	3	Horizontal	337	1.49	-
PK	5.5294G	56.41	68.20	-11.79	3.20	3	Horizontal	337	1.49	-
PK	5.7814G	119.40	Inf	-Inf	3.69	3	Horizontal	337	1.49	-
PK	5.9326G	56.18	68.20	-12.02	4.00	3	Horizontal	337	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/01/2019

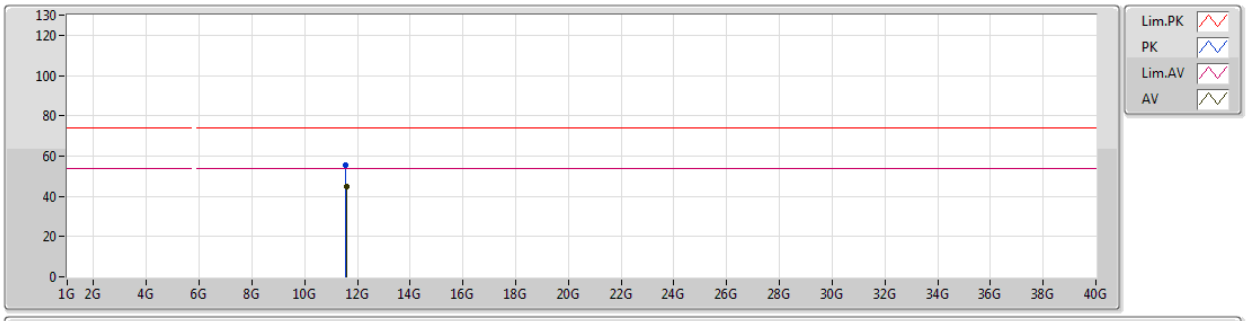


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57132G	44.32	54.00	-9.68	13.51	3	Vertical	14	2.84	-
PK	11.58194G	54.54	74.00	-19.46	13.50	3	Vertical	14	2.84	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/01/2019

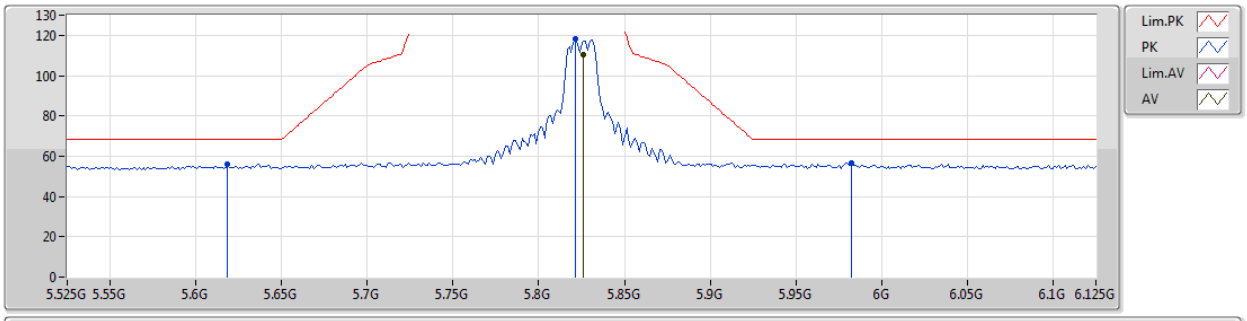


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57612G	44.91	54.00	-9.09	13.50	3	Horizontal	14	2.84	-
PK	11.57102G	55.59	74.00	-18.41	13.51	3	Horizontal	14	2.84	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/01/2019

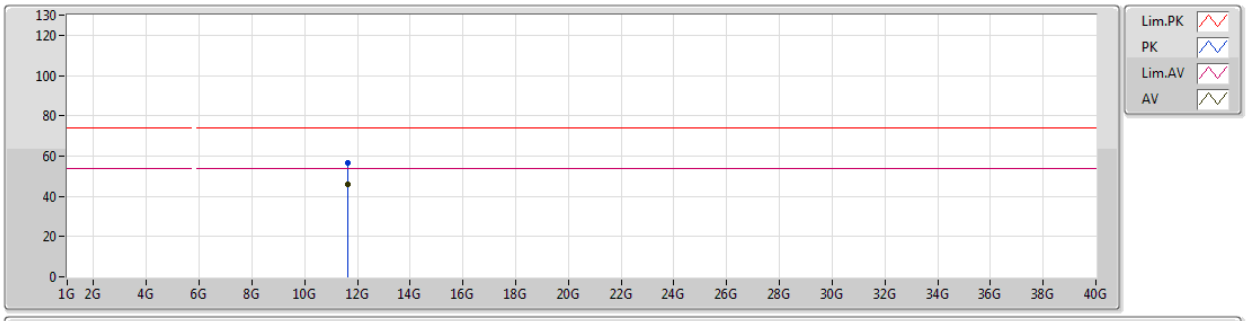


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8262G	110.54	Inf	-Inf	3.79	3	Horizontal	336	1.50	-
PK	5.6186G	56.00	68.20	-12.20	3.38	3	Horizontal	336	1.50	-
PK	5.8214G	118.04	Inf	-Inf	3.77	3	Horizontal	336	1.50	-
PK	5.9822G	56.65	68.20	-11.55	4.10	3	Horizontal	336	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/01/2019

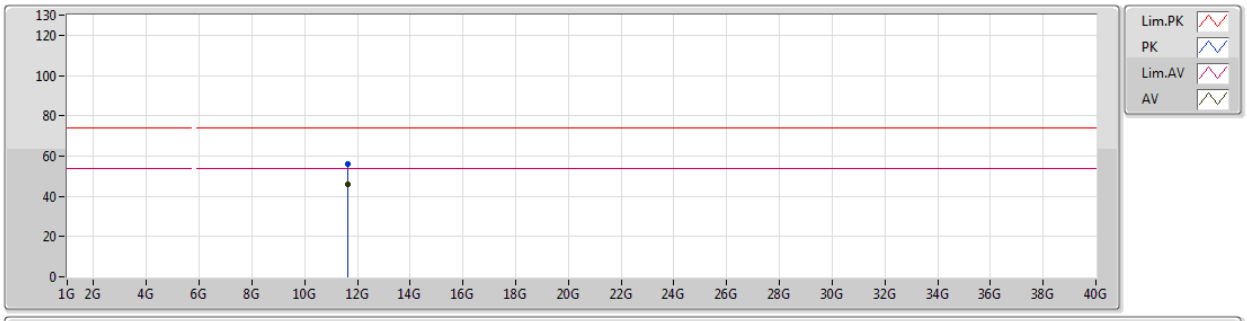


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.65162G	46.04	54.00	-7.96	13.43	3	Vertical	13	1.74	-
PK	11.6557G	56.44	74.00	-17.56	13.42	3	Vertical	13	1.74	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/01/2019

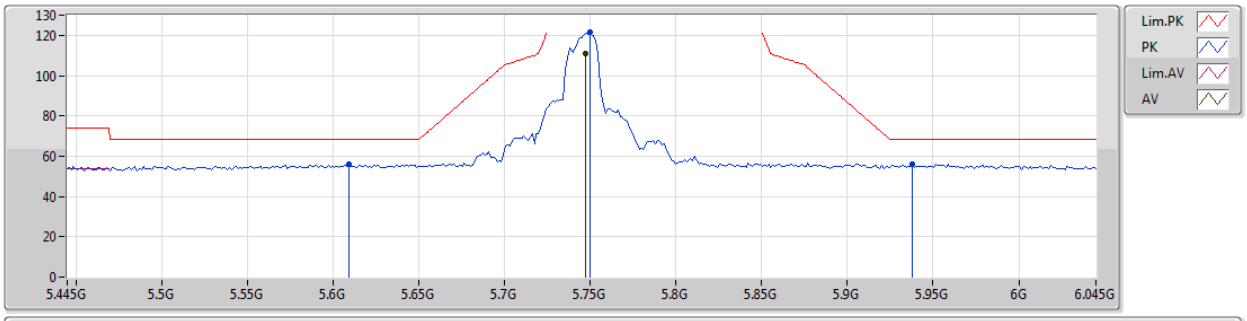


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.6518G	45.98	54.00	-8.02	13.43	3	Horizontal	24	1.87	-
PK	11.6521G	55.77	74.00	-18.23	13.43	3	Horizontal	24	1.87	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

29/01/2019

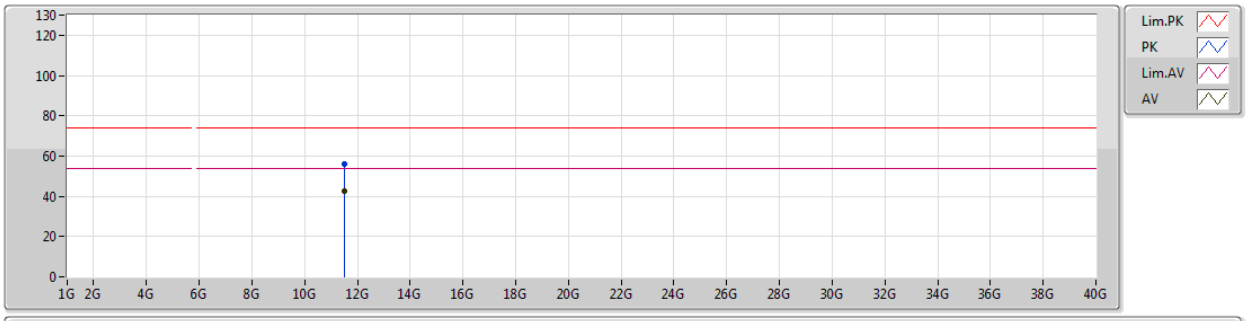


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7474G	110.68	Inf	-Inf	3.63	3	Horizontal	352	1.50	-
PK	5.6094G	56.24	68.20	-11.96	3.36	3	Horizontal	352	1.50	-
PK	5.7498G	121.37	Inf	-Inf	3.63	3	Horizontal	352	1.50	-
PK	5.9382G	56.17	68.20	-12.03	4.01	3	Horizontal	352	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

29/01/2019

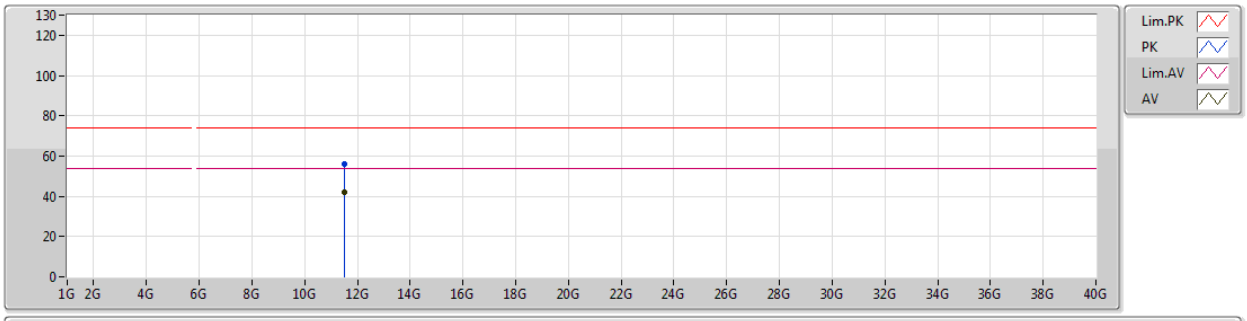


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.49288G	42.72	54.00	-11.28	13.58	3	Vertical	18	2.74	-
PK	11.4936G	56.26	74.00	-17.74	13.58	3	Vertical	18	2.74	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

29/01/2019

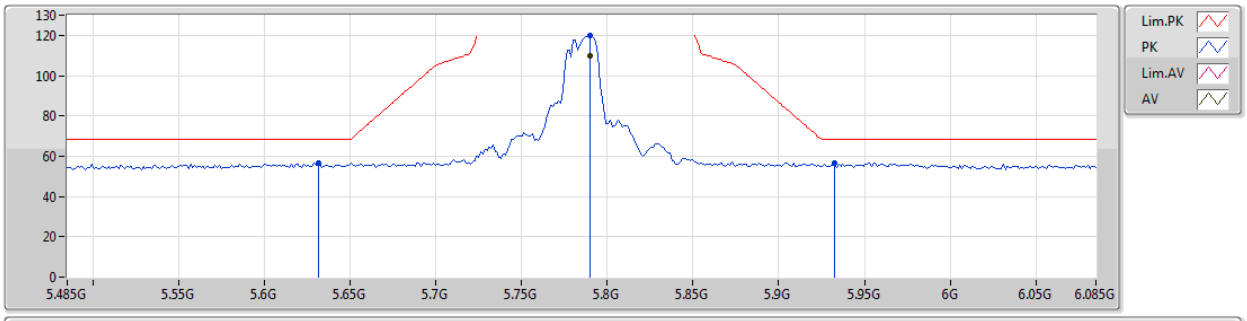


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.49036G	41.94	54.00	-12.06	13.58	3	Horizontal	320	1.48	-
PK	11.4927G	55.98	74.00	-18.02	13.58	3	Horizontal	320	1.48	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/01/2019

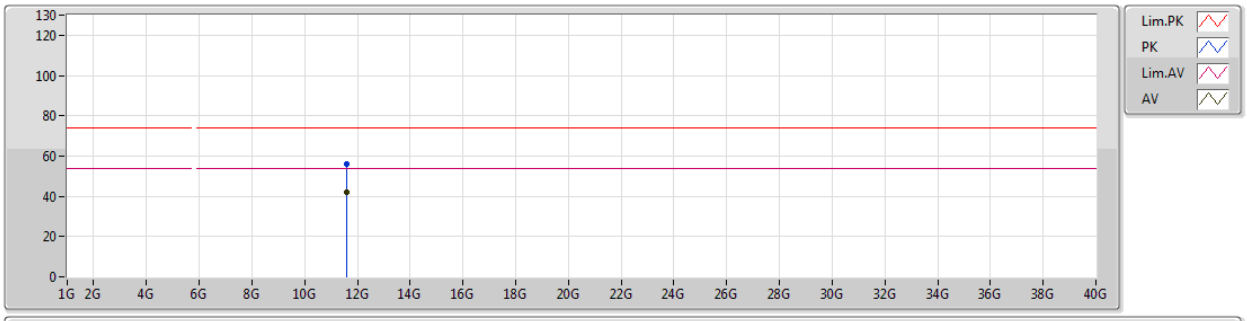


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7898G	109.55	Inf	-Inf	3.71	3	Horizontal	353	1.61	-
PK	5.6314G	56.55	68.20	-11.65	3.40	3	Horizontal	353	1.61	-
PK	5.7898G	120.01	Inf	-Inf	3.71	3	Horizontal	353	1.61	-
PK	5.9326G	56.87	68.20	-11.33	4.00	3	Horizontal	353	1.61	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/01/2019

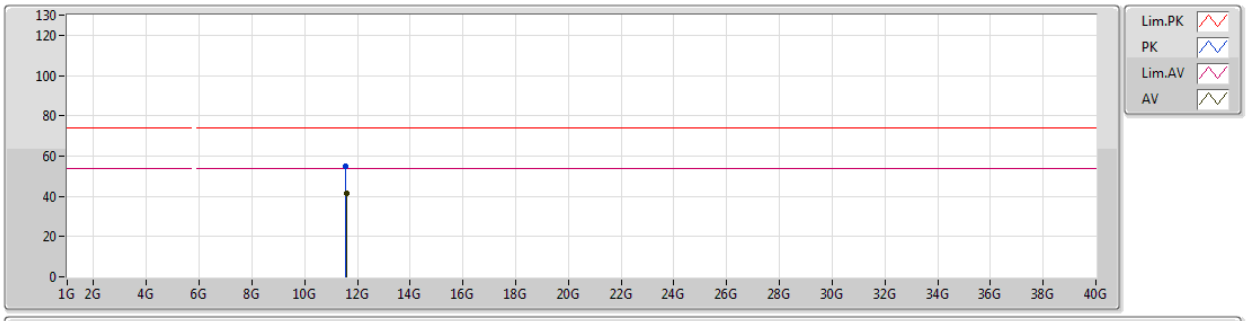


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57396G	42.11	54.00	-11.89	13.51	3	Vertical	26	1.68	-
PK	11.57444G	55.94	74.00	-18.06	13.51	3	Vertical	26	1.68	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/01/2019

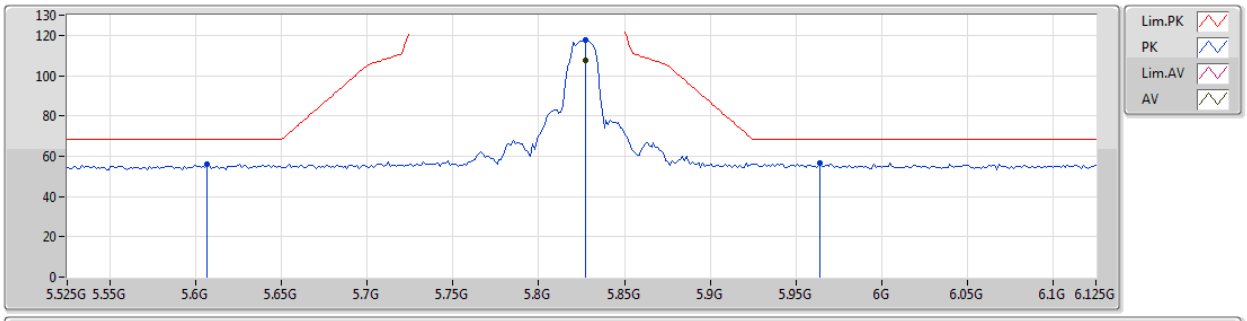


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57378G	41.53	54.00	-12.47	13.51	3	Horizontal	23	1.69	-
PK	11.55692G	54.68	74.00	-19.32	13.52	3	Horizontal	23	1.69	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/01/2019

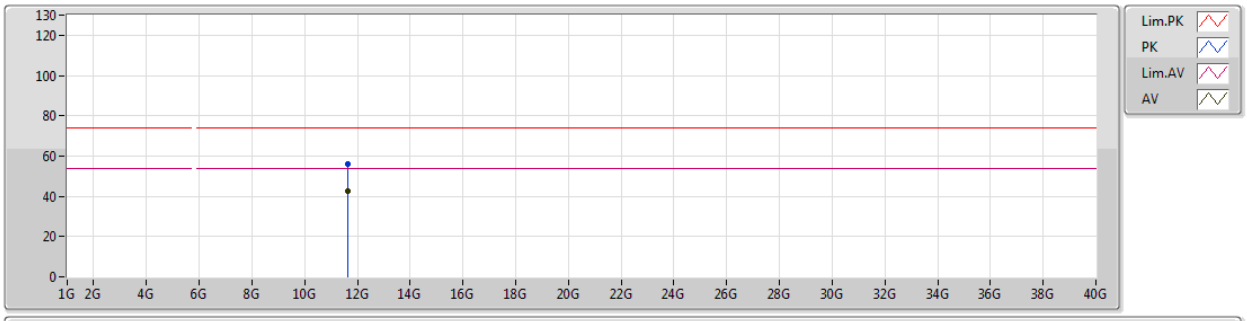


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8274G	107.78	Inf	-Inf	3.79	3	Horizontal	352	1.01	-
PK	5.6066G	56.20	68.20	-12.00	3.35	3	Horizontal	352	1.01	-
PK	5.8274G	117.74	Inf	-Inf	3.79	3	Horizontal	352	1.01	-
PK	5.9642G	56.70	68.20	-11.50	4.05	3	Horizontal	352	1.01	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/01/2019

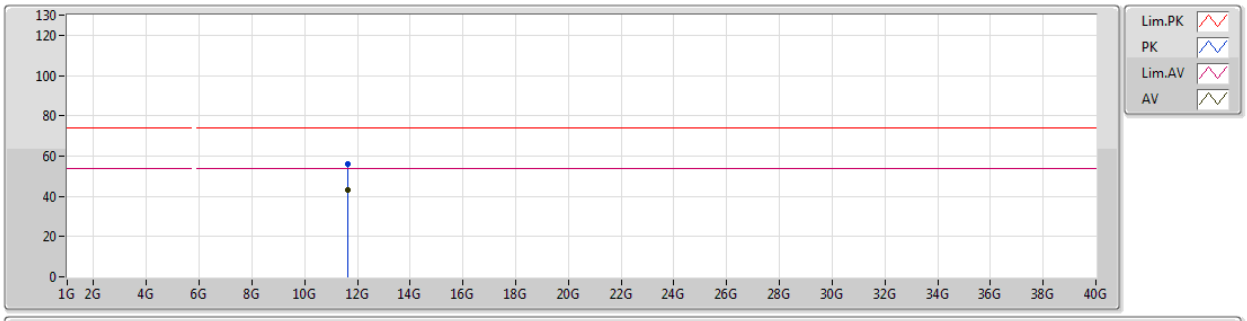


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.65396G	42.83	54.00	-11.17	13.42	3	Vertical	29	1.50	-
PK	11.6548G	55.86	74.00	-18.14	13.42	3	Vertical	29	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/01/2019

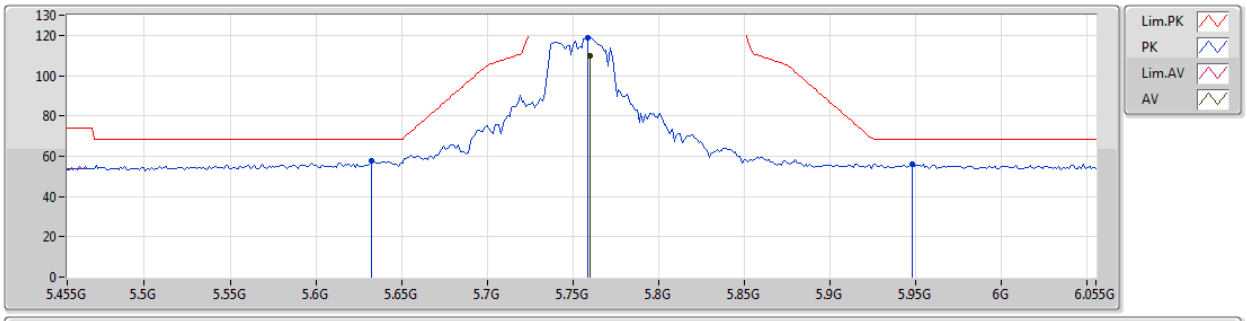


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.65432G	42.94	54.00	-11.06	13.42	3	Horizontal	52	2.07	-
PK	11.65438G	56.03	74.00	-17.97	13.42	3	Horizontal	52	2.07	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/01/2019

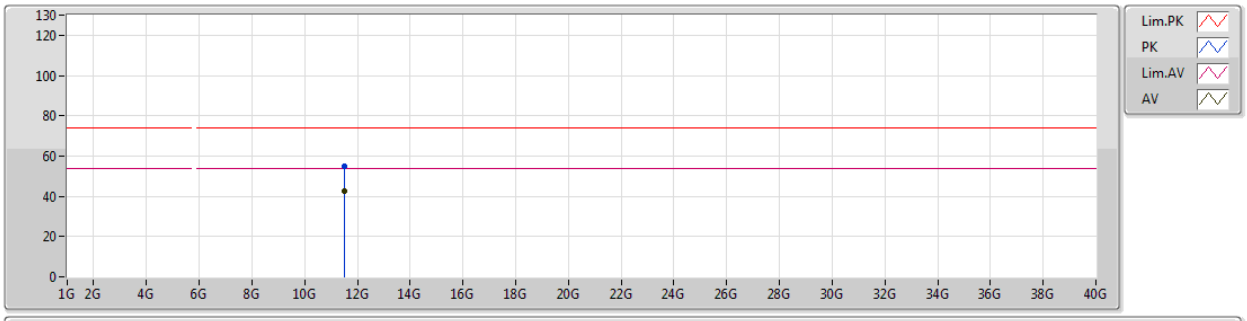


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7598G	109.73	Inf	-Inf	3.65	3	Horizontal	348	1.50	-
PK	5.6326G	57.44	68.20	-10.76	3.41	3	Horizontal	348	1.50	-
PK	5.7586G	118.80	Inf	-Inf	3.65	3	Horizontal	348	1.50	-
PK	5.9482G	56.14	68.20	-12.06	4.03	3	Horizontal	348	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/01/2019

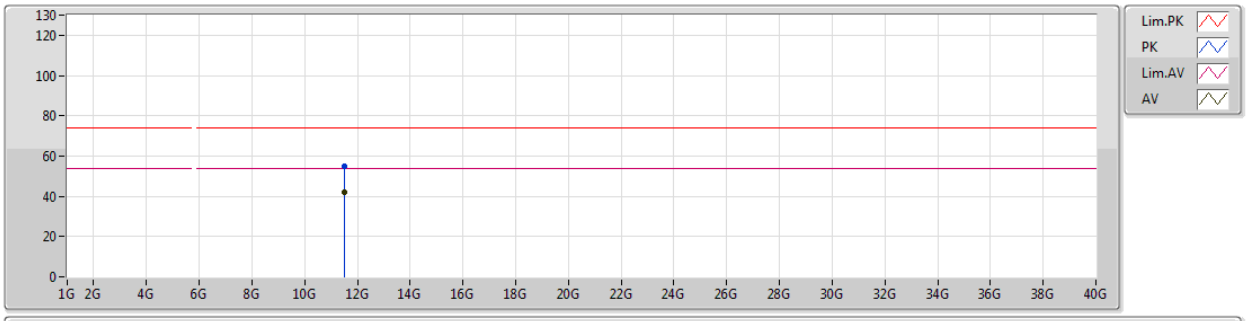


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.51024G	42.41	54.00	-11.59	13.56	3	Vertical	337	2.85	-
PK	11.49566G	54.92	74.00	-19.08	13.58	3	Vertical	337	2.85	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/01/2019

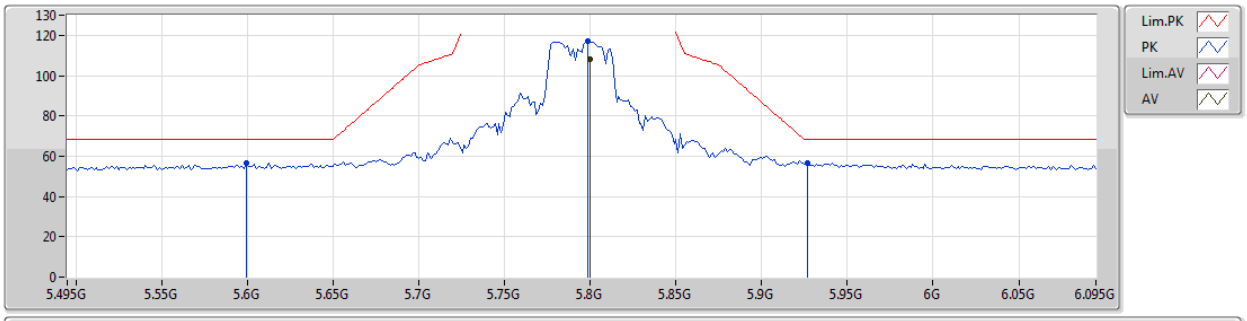


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5157G	42.21	54.00	-11.79	13.55	3	Horizontal	336	1.69	-
PK	11.51486G	55.07	74.00	-18.93	13.55	3	Horizontal	336	1.69	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/01/2019

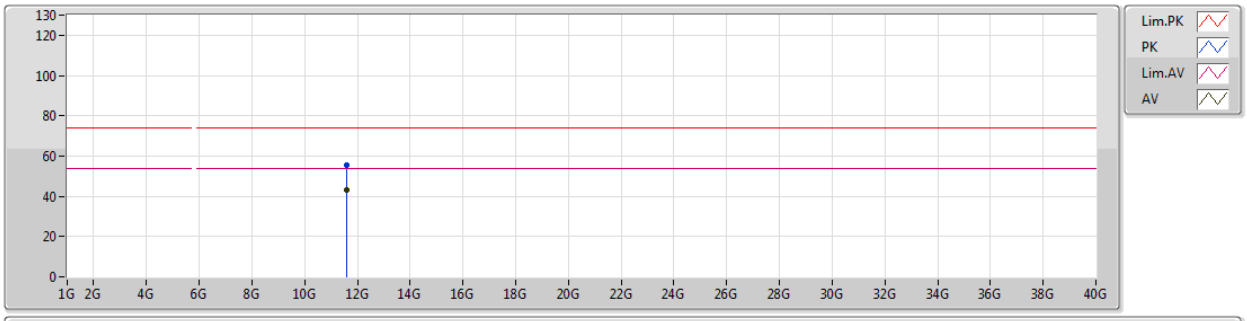


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7998G	108.35	Inf	-Inf	3.73	3	Horizontal	347	1.46	-
PK	5.5994G	56.68	68.20	-11.52	3.34	3	Horizontal	347	1.46	-
PK	5.7986G	117.23	Inf	-Inf	3.73	3	Horizontal	347	1.46	-
PK	5.927G	56.53	68.20	-11.67	3.99	3	Horizontal	347	1.46	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/01/2019

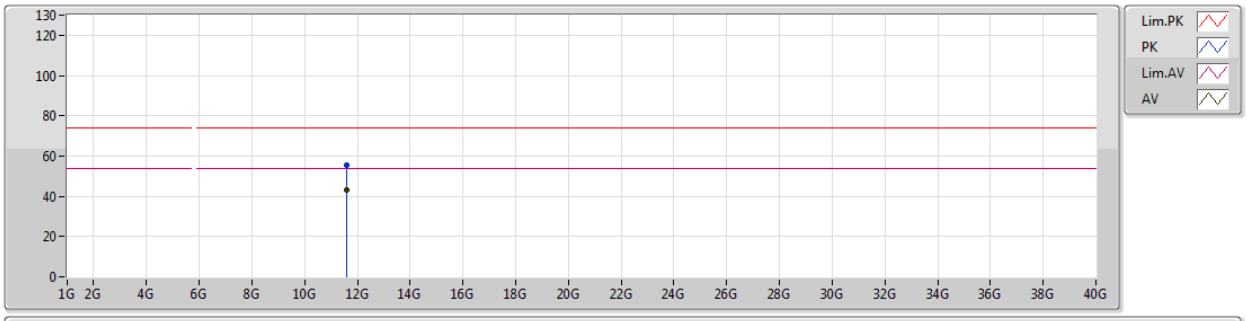


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.59522G	42.91	54.00	-11.09	13.49	3	Vertical	25	1.72	-
PK	11.59096G	55.22	74.00	-18.78	13.49	3	Vertical	25	1.72	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/01/2019

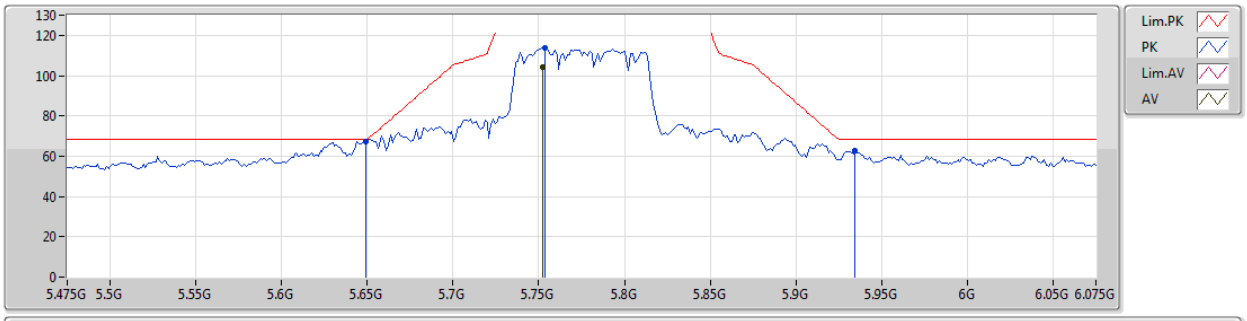


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5903G	43.10	54.00	-10.90	13.49	3	Horizontal	29	1.94	-
PK	11.58964G	55.63	74.00	-18.37	13.49	3	Horizontal	29	1.94	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

29/01/2019

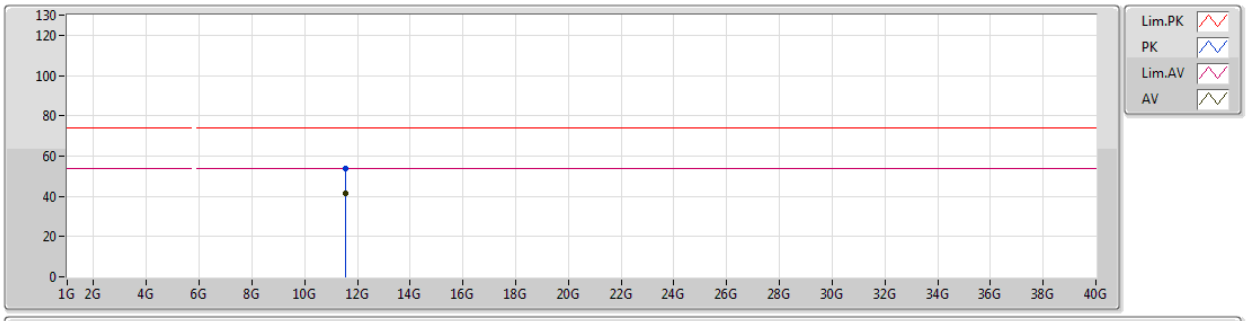


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7522G	104.38	Inf	-Inf	3.64	3	Horizontal	186	1.01	-
PK	5.649G	67.49	68.20	-0.71	3.44	3	Horizontal	186	1.01	-
PK	5.7534G	113.75	Inf	-Inf	3.64	3	Horizontal	186	1.01	-
PK	5.9346G	62.60	68.20	-5.60	4.00	3	Horizontal	186	1.01	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

29/01/2019

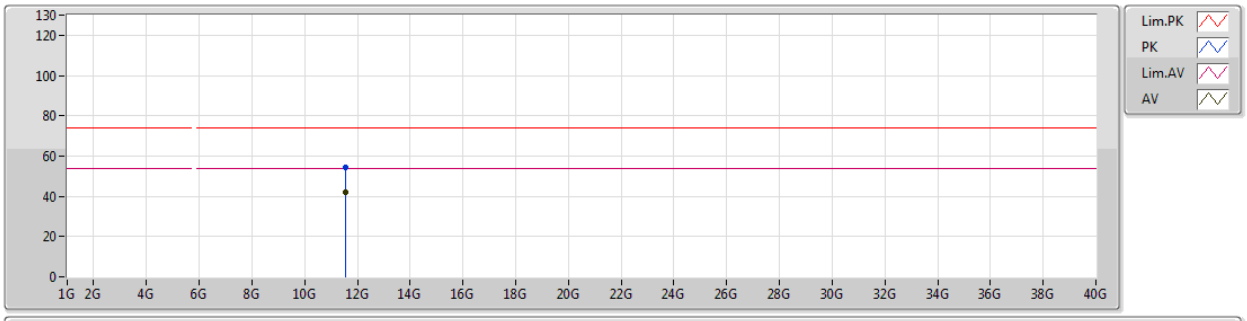


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.53638G	41.43	54.00	-12.57	13.54	3	Vertical	74	1.50	-
PK	11.565G	53.96	74.00	-20.04	13.51	3	Vertical	74	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

29/01/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5392G	41.84	54.00	-12.16	13.54	3	Horizontal	178	2.32	-
PK	11.55588G	54.35	74.00	-19.65	13.52	3	Horizontal	178	2.32	-