



FCC Test Report

FCC ID : TVE-2417T112
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FAP-221E+, FAP-223E+
FortiAP 221Exxxxxx, FORTIAP-221Exxxxxx, FAP-221Exxxxxx,
FAP-221E+xxxxxx, FortiAP 223Exxxxxx, FORTIAP-223Exxxxxx,
FAP-223Exxxxxx, FAP-223E+xxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or blank for
software changes or marketing purposes only)
Applicant / Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.407

The product was received on Apr. 26, 2018, and testing was started from May 11, 2018 and completed on May 28, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS**APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH****APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER****APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY****APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS****APPENDIX F. TEST PHOTOS****PHOTOGRAPHS OF EUT V01**



History of this test report



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	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	-

Reviewed by: Jeremy Lin

Report Producer: Ivy Yuan



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]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

**Beamforming**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80-BF	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 Table for Multiple Listing

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

Brand Name	Model Name	Difference	
		Internal antenna	External antenna
Fortinet	FAP-221E+	V	
Fortinet	FAP-223E+		V

Note 1: The only difference between FAP-221E+ and FAP-223E+ is the layout of the antenna.



1.1.3 Antenna Information

FAP-221E+

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	InPaq	WA-M-LA-01-036	PIFA Antenna	I-PEX
2	2	InPaq	WA-M-LA-06-002	PIFA Antenna	I-PEX
3	1	InPaq	WA-M-LC-05-002	PIFA Antenna	I-PEX
4	2	InPaq	WA-M-LC-02-008	PIFA Antenna	I-PEX
5	1	INPAQ	ACA-5036-A2-CC-S	Chip	I-PEX

Ant.	Gain (dBi)		
	2.4G	BT	5G
1	3.89	-	-
2	3.89	-	-
3	-	-	5.55
4	-	-	5.55
5	-	2.93	-

FAP-223E+

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
2	2	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
3	1	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
4	2	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
5	1	INPAQ	ACA-5036-A2-CC-S	Chip	I-PEX

Ant.	Gain (dBi)		
	2.4G	BT	5G
1	2.0	-	-
2	2.0	-	-
3	-	-	3.0
4	-	-	3.0
5	-	2.93	-

For 2.4GHz function:

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

Support diversity function and pre-tested Ant. 1(port 1) and Ant. 2(port 2) on each single chain, the worst case was Ant. 2(port 2) and it was record in this test report.



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

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

For BT function:

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

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

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX)

Support diversity function and pre-tested Ant. 1(port 1) and Ant. 2(port 2) on each single chain, the worst case was Ant. 2(port 2) and it was record in this test report.

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

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

1.1.4 EUT Information

Operational Condition			
EUT Power Type		From AC Adapter / PoE	
EUT Function	<input type="checkbox"/>	Outdoor	<input checked="" type="checkbox"/> Indoor
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/> Client
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/> Without beamforming
Type of EUT			
<input checked="" type="checkbox"/>	Stand-alone		
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
<input type="checkbox"/>	Other:		



1.1.5 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.958	0.186	2.065m	1k
802.11ac VHT20	0.976	0.106	5.013m	300
802.11ac VHT40	0.962	0.168	2.431m	1k
802.11ac VHT80	0.933	0.301	1.15m	1k

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ac VHT20-BF	0.976	0.106	5.013m	300
802.11ac VHT40-BF	0.962	0.168	2.431m	1k
802.11ac VHT80-BF	0.933	0.301	1.15m	1k



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				
<input checked="" type="checkbox"/>	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.				
<input type="checkbox"/>	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	TH06-HY	Barry	23.5°C / 65%	28/May/2018
Radiated	03CH02-HY	Daniel	24.1°C / 57%	28/May/2018
AC Conduction	CO04-HY	Daniel	22.8°C / 51%	15/May/2018

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
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	QDART-Connectivity100040
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Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	18
5200MHz	21.5
5240MHz	21.5
5745MHz	21.5
5785MHz	20.5
5825MHz	19.5
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17.5
5200MHz	20.5
5240MHz	20.5
5745MHz	20
5785MHz	19
5825MHz	17
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	19
5200MHz	21.5
5240MHz	21.5
5745MHz	20
5785MHz	18
5825MHz	17
802.11ac VHT40_Nss1,(MCS0)_2TX	-



Mode	Power Setting
5190MHz	16
5230MHz	21
5755MHz	17.5
5795MHz	16
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	14.5
5775MHz	18

Beamforming

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	16
5200MHz	18.5
5240MHz	18.5
5745MHz	17
5785MHz	15
5825MHz	14
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	13
5230MHz	18
5755MHz	14.5
5795MHz	13
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	11.5
5775MHz	15



2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode ; 5G TX

FAP-221E+ configuration was pretested and found to be the worst case and measured during the test.

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

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

FAP-221E+ configuration was pretested and found to be the worst case and measured during the test.

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	Bluetooth + WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA841009 for Co-location RF Exposure Evaluation.	



2.4 Support Equipment

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	GW	APS-9102	-

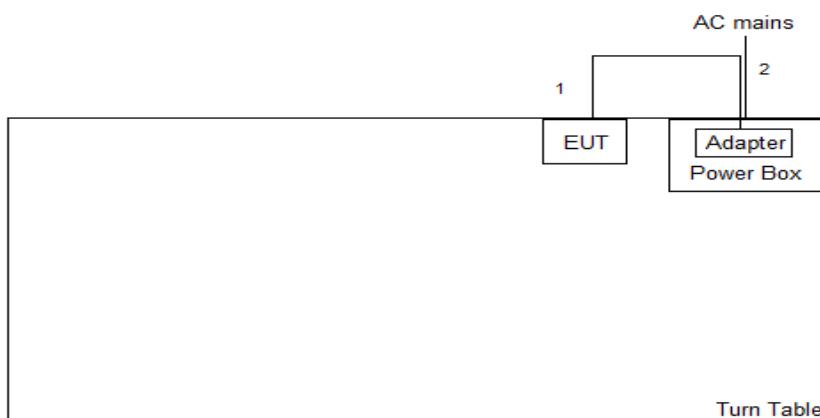
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	Asian Power Devices Inc.	WA-30J12R	-

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	Asian Power Devices Inc.	WA-30J12R	-



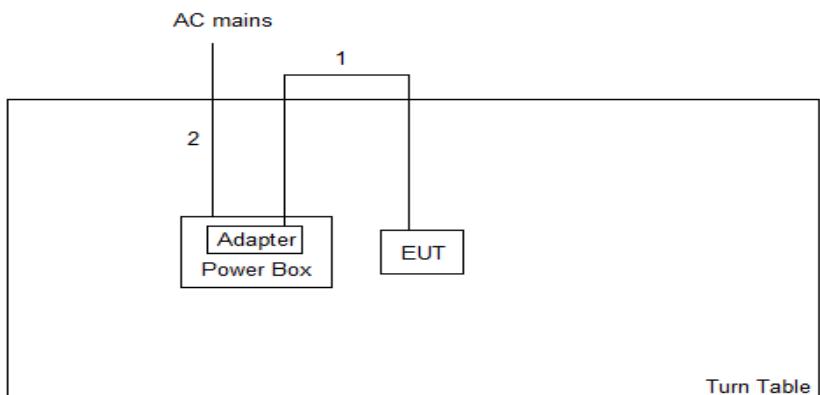
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	DC Power line	No	1.5	-
2	AC Power line	No	1.5	-

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length(m)	Remark
1	DC Power line	No	1.5	-
2	AC Power line	No	1.5	-

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.

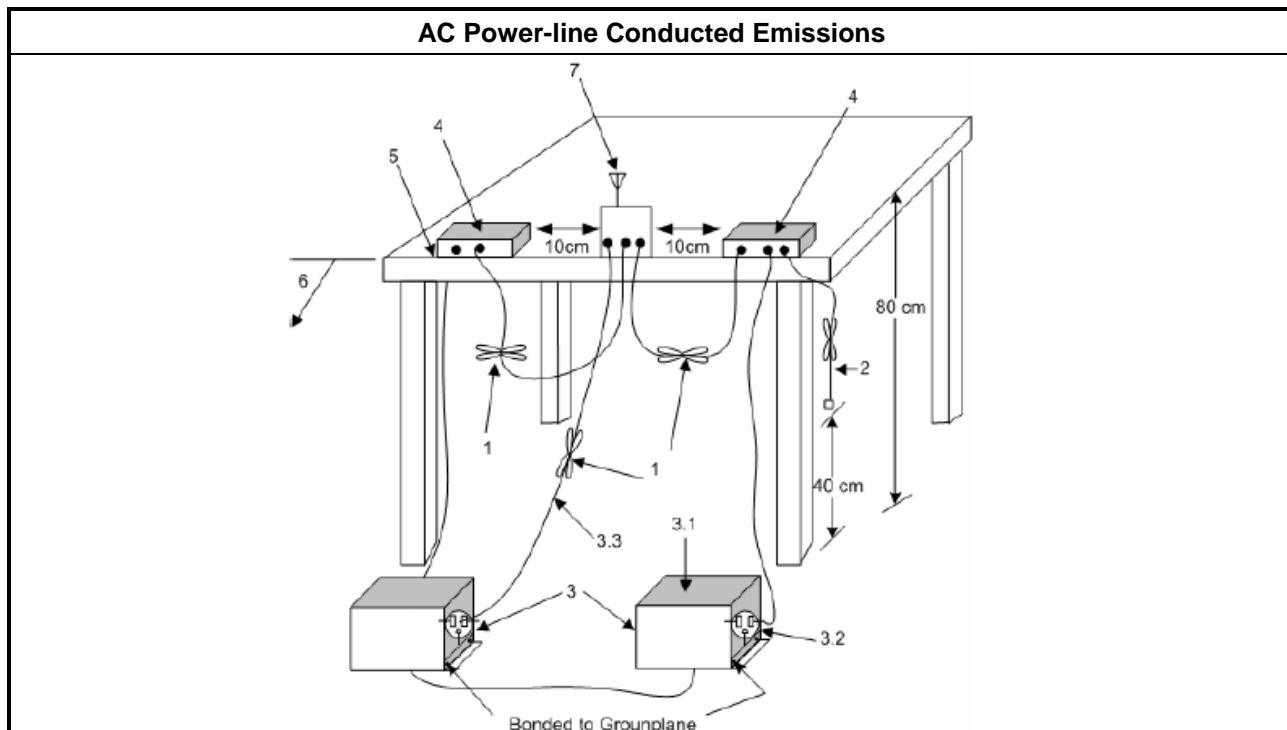
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

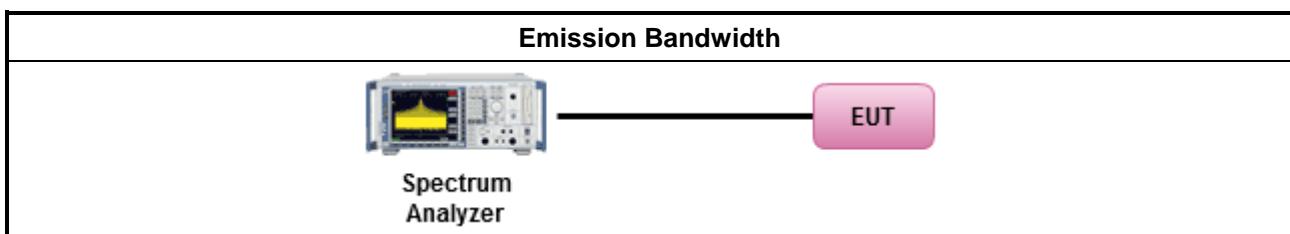
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	<ul style="list-style-type: none">▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ [21dBm]▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, 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 $G_{TX} > 23 \text{ dBi}$, 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 $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, 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>P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

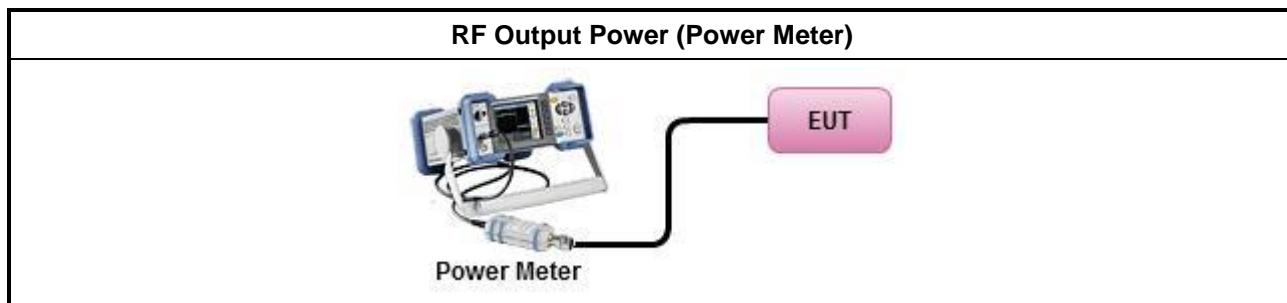
3.3.2 Measuring Instruments

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%	<input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	<input type="checkbox"/> 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	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	<ul style="list-style-type: none">▪ 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	<ul style="list-style-type: none">▪ 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 $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	<ul style="list-style-type: none">▪ 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

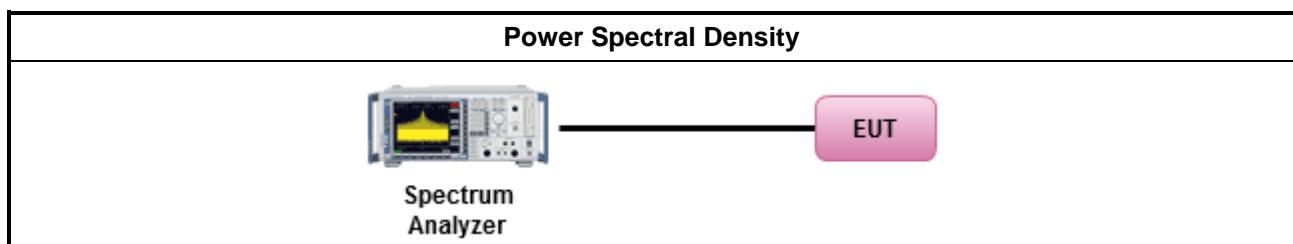
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none">▪ 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:	
	<ul style="list-style-type: none"><input type="checkbox"/> Refer as KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	Duty cycle \geq 98%
	<ul style="list-style-type: none"><input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	<ul style="list-style-type: none"><input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none">▪ For conducted measurement.	
	<ul style="list-style-type: none"><ul style="list-style-type: none">▪ If the EUT supports multiple transmit chains using options given below:
	<ul style="list-style-type: none"><ul style="list-style-type: none"><ul style="list-style-type: none">▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PPSD). 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.
	<ul style="list-style-type: none"><ul style="list-style-type: none"><ul style="list-style-type: none">▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $\text{PPSD}_{\text{total}} = \text{PPSD}_1 + \text{PPSD}_2 + \dots + \text{PPSD}_n$(calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = \text{PPSD}_{\text{total}} + \text{DG}$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2 dBuV/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).	



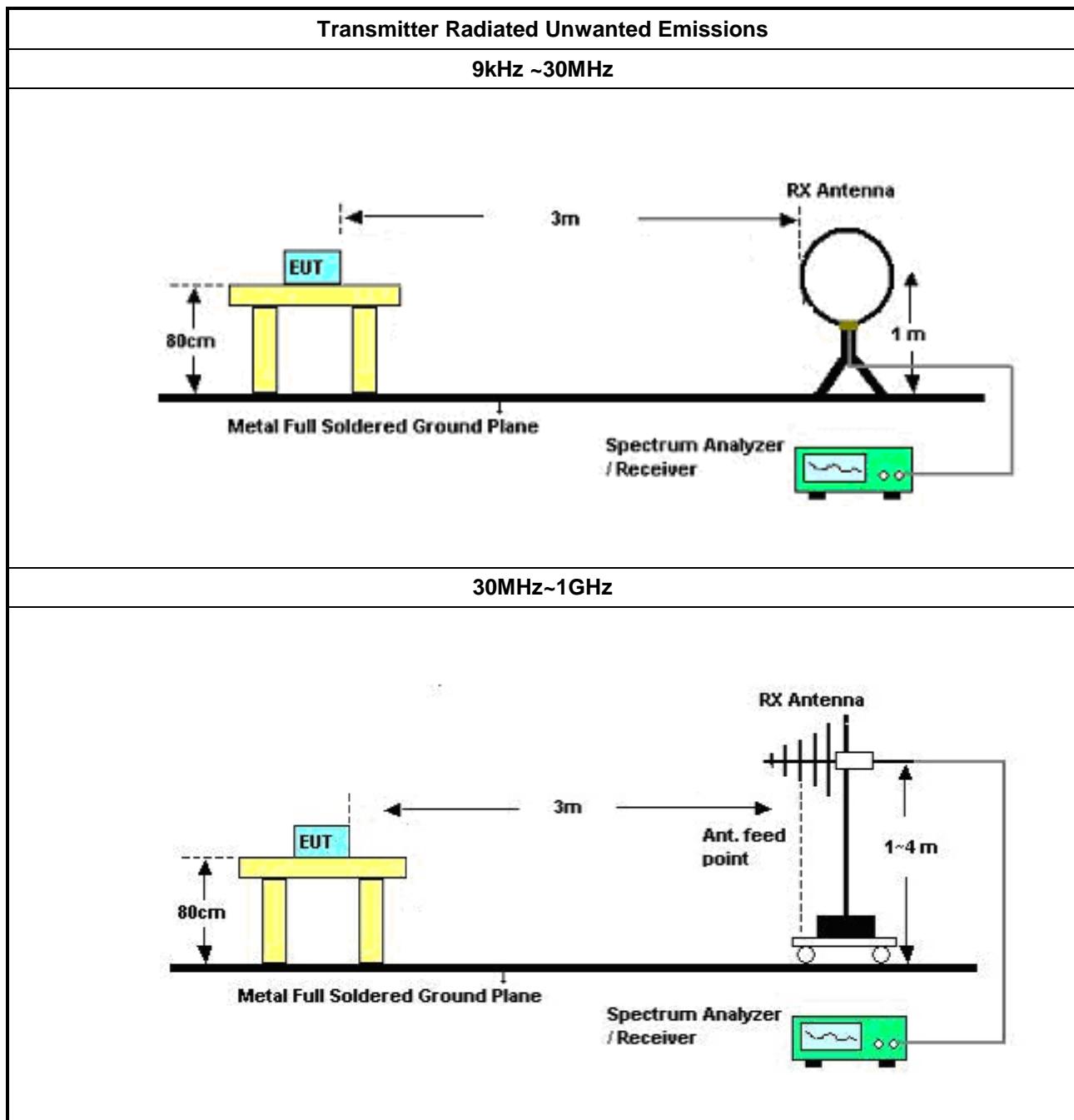
3.5.2 Measuring Instruments

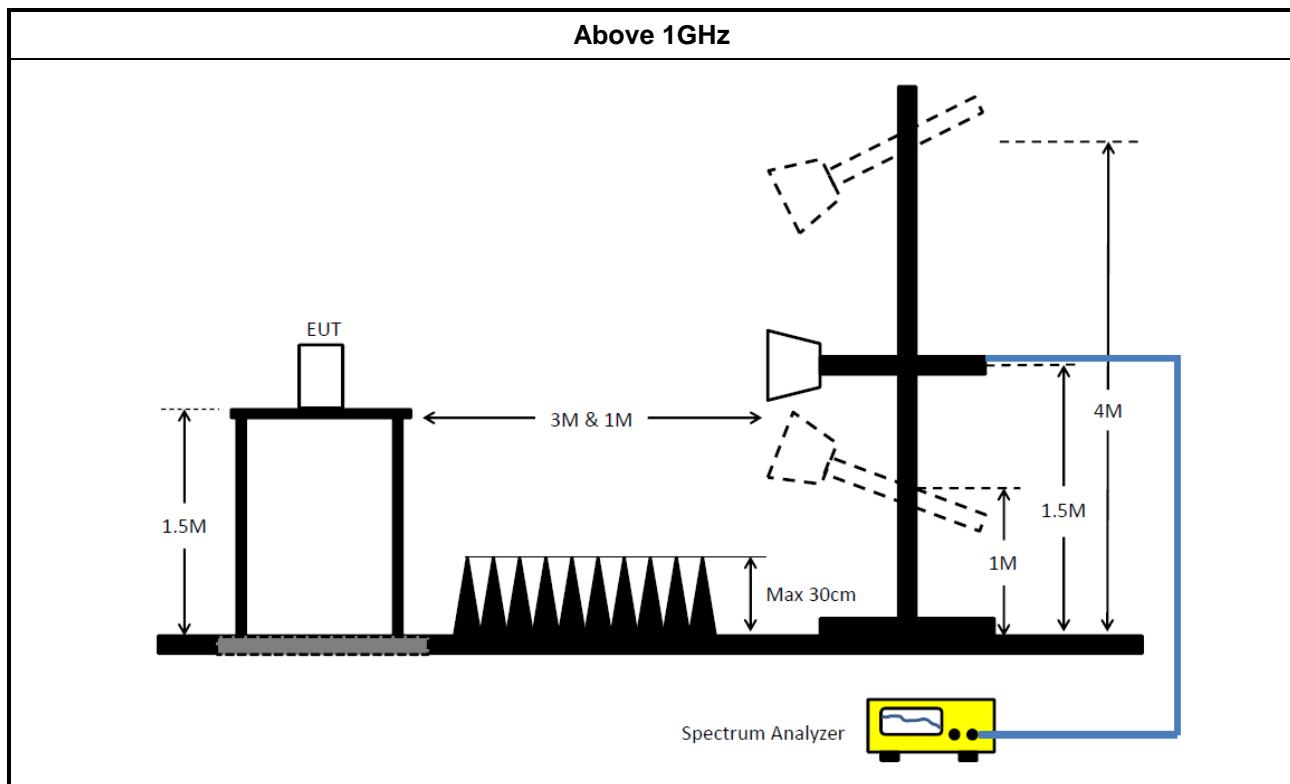
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none">▪ 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).	
<ul style="list-style-type: none">▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].	
<ul style="list-style-type: none">▪ For the transmitter unwanted emissions shall be measured using following options below:	
<ul style="list-style-type: none">▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.	
<ul style="list-style-type: none">▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.	
<ul style="list-style-type: none"><input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.	
<ul style="list-style-type: none"><input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.	
<ul style="list-style-type: none">▪ For radiated measurement.	
<ul style="list-style-type: none"><ul style="list-style-type: none">▪ 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.	
<ul style="list-style-type: none">▪ The any unwanted emissions level shall not exceed the fundamental emission level.	
<ul style="list-style-type: none">▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESCS30	838251/003	9KHz ~ 2.75GHz	13/Jun/2017	12/Jun/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	20/Oct/2017	19/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	29Jun/2017	28/Jun/2018
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	09/Sep/2017	08/Sep/2018
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019



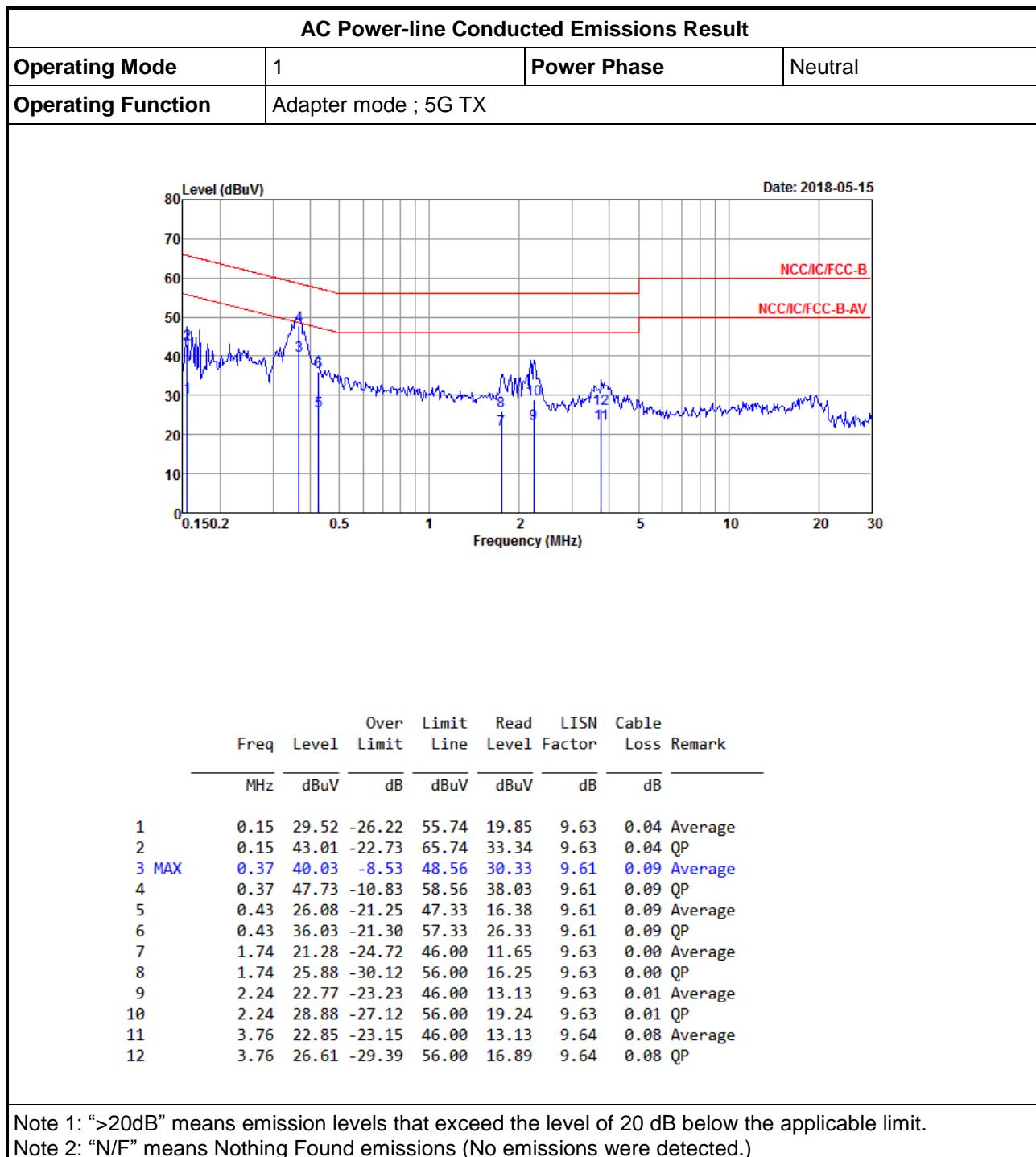
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	29/Dec/2017	28/Dec/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
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
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018



AC Power-line Conducted Emissions

Appendix A





AC Power-line Conducted Emissions

Appendix A

AC Power-line Conducted Emissions Result													
Operating Mode	1	Power Phase	Line										
Operating Function	Adapter mode ; 5G TX												
<p>Date: 2018-05-15</p>													
Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark						
MHz	dBuV	dB	dBuV	dBuV	dB	dB							
1	0.15	25.71	-30.11	55.82	16.05	9.62	0.04	Average					
2	0.15	42.89	-22.93	65.82	33.23	9.62	0.04	QP					
3 MAX	0.36	41.36	-7.29	48.65	31.66	9.61	0.09	Average					
4	0.36	48.54	-10.11	58.65	38.84	9.61	0.09	QP					
5	0.41	28.19	-19.40	47.59	18.48	9.61	0.10	Average					
6	0.41	36.25	-21.34	57.59	26.54	9.61	0.10	QP					
7	1.93	19.63	-26.37	46.00	10.01	9.62	0.00	Average					
8	1.93	23.86	-32.14	56.00	14.24	9.62	0.00	QP					
9	2.24	22.64	-23.36	46.00	13.01	9.62	0.01	Average					
10	2.24	29.00	-27.00	56.00	19.37	9.62	0.01	QP					
11	3.76	21.75	-24.25	46.00	12.04	9.63	0.08	Average					
12	3.76	25.76	-30.24	56.00	16.05	9.63	0.08	QP					

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	41.9M	21.139M	21M1D1D	24.8M	16.442M
802.11a_Nss1,(6Mbps)_2TX	38.025M	17.266M	17M3D1D	18.8M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	44.9M	22.389M	22M4D1D	20.2M	17.641M
802.11ac VHT40_Nss1,(MCS0)_2TX	84.65M	38.831M	38M8D1D	39M	35.732M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.1M	75.762M	75M8D1D	82.9M	75.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.35M	17.141M	17M1D1D	16.275M	16.542M
802.11a_Nss1,(6Mbps)_2TX	16.325M	16.517M	16M5D1D	15.875M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	17.691M	17M7D1D	12.575M	17.541M
802.11ac VHT40_Nss1,(MCS0)_2TX	34M	36.032M	36M0D1D	29.15M	35.782M
802.11ac VHT80_Nss1,(MCS0)_2TX	74M	75.662M	75M7D1D	73.3M	75.462M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

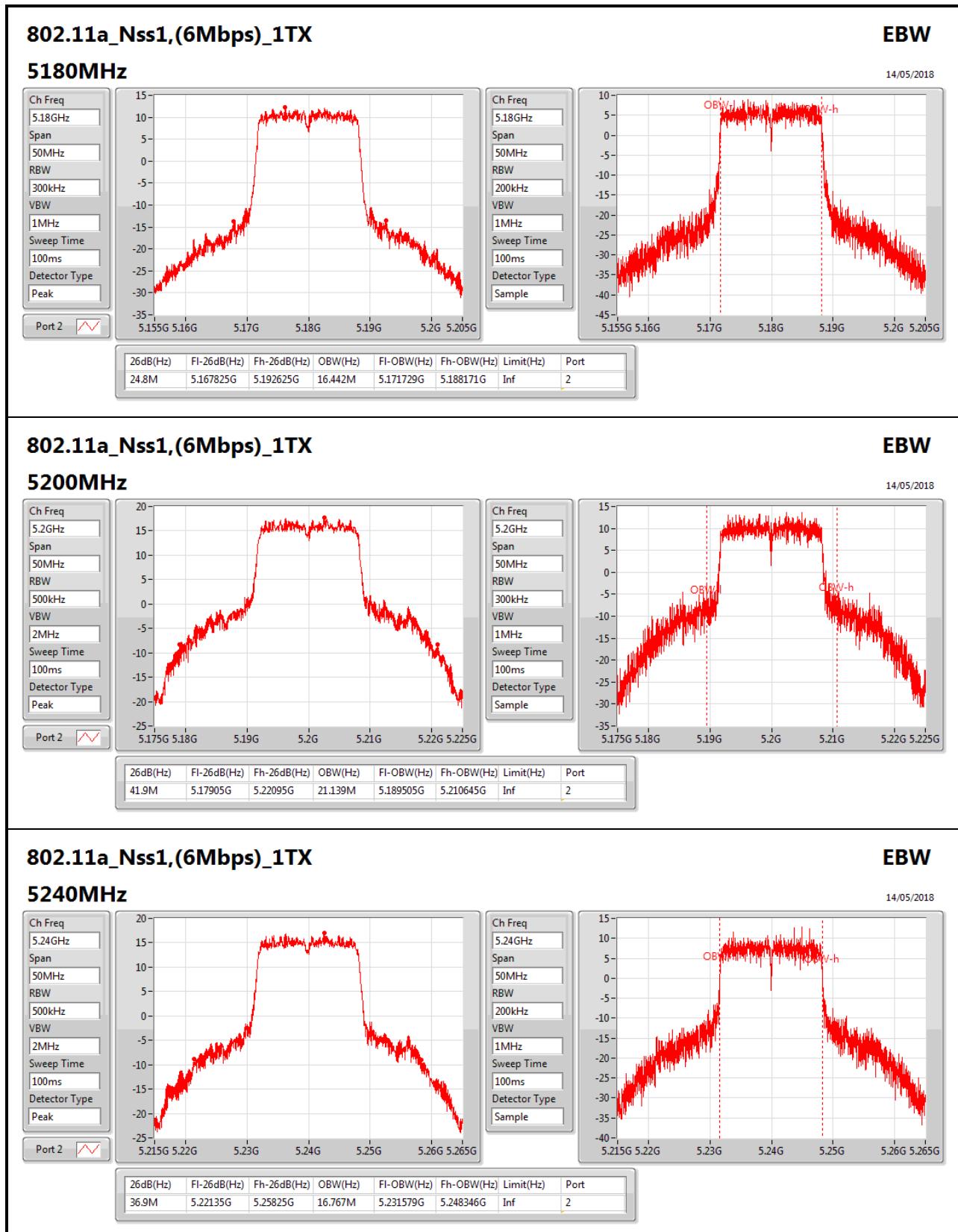


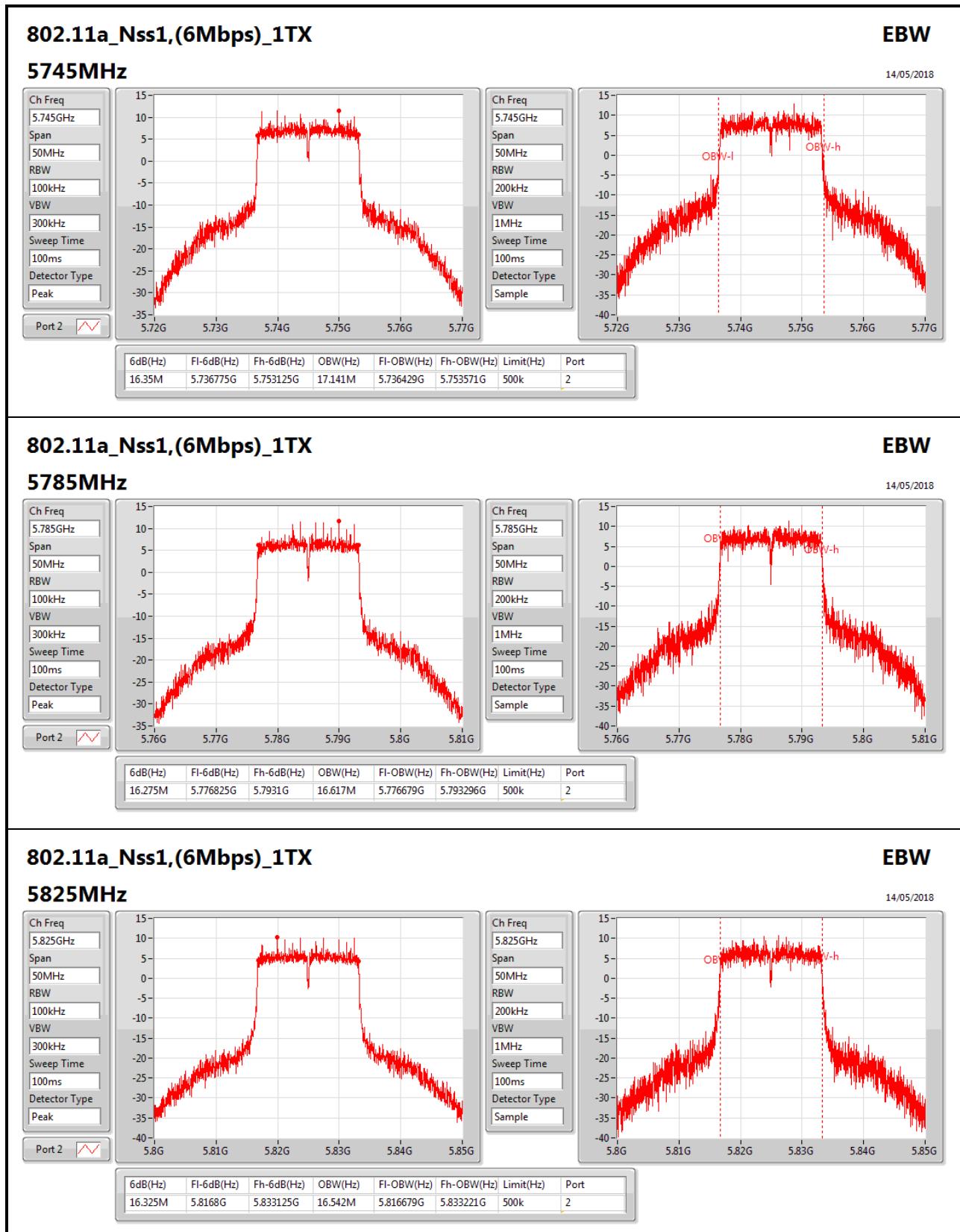
Result

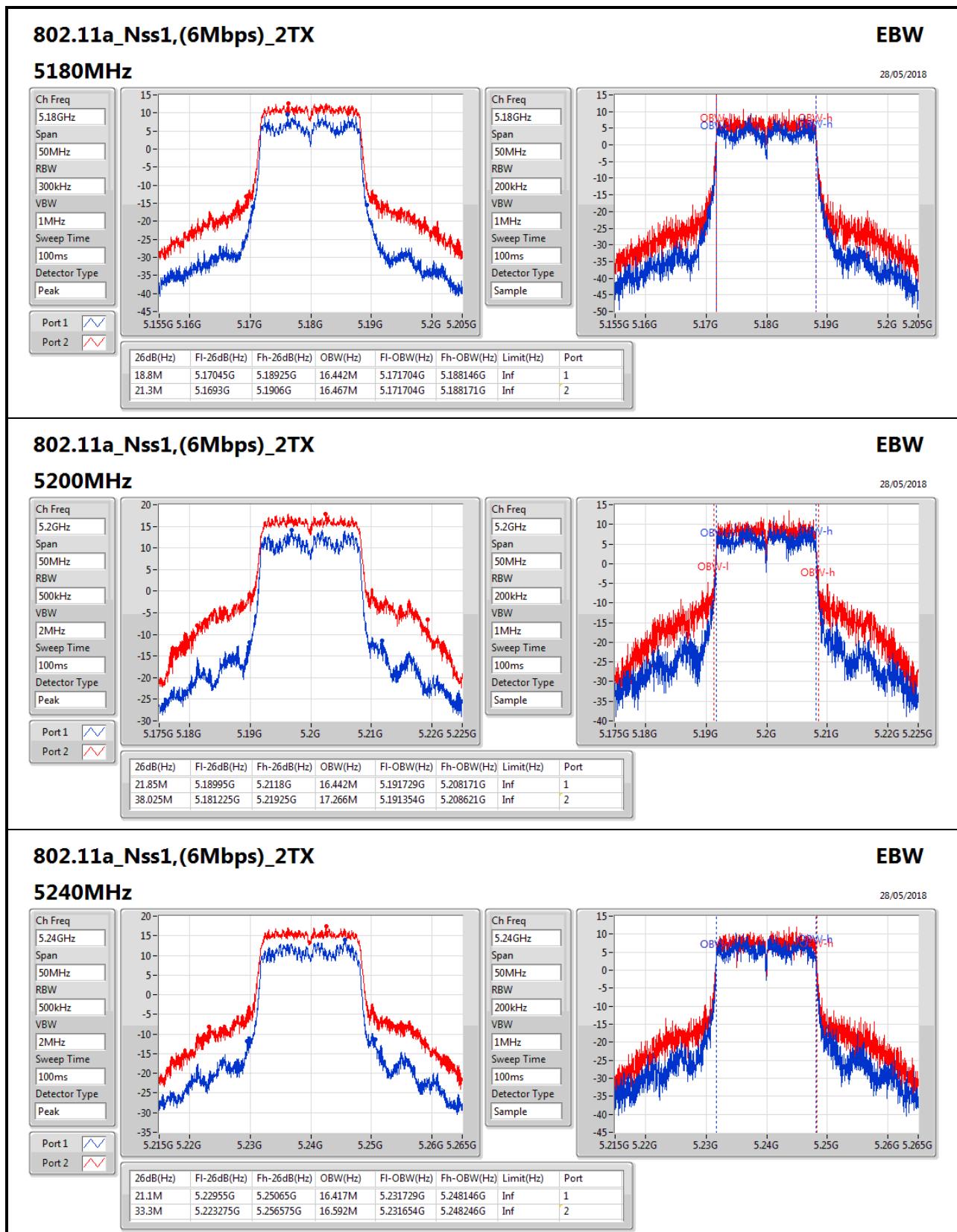
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf			24.8M	16.442M
5200MHz_TnomVnom	Pass	Inf			41.9M	21.139M
5240MHz_TnomVnom	Pass	Inf			36.9M	16.767M
5745MHz_TnomVnom	Pass	500k			16.35M	17.141M
5785MHz_TnomVnom	Pass	500k			16.275M	16.617M
5825MHz_TnomVnom	Pass	500k			16.325M	16.542M
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	18.8M	16.442M	21.3M	16.467M
5200MHz_TnomVnom	Pass	Inf	21.85M	16.442M	38.025M	17.266M
5240MHz_TnomVnom	Pass	Inf	21.1M	16.417M	33.3M	16.592M
5745MHz_TnomVnom	Pass	500k	15.875M	16.417M	16.325M	16.517M
5785MHz_TnomVnom	Pass	500k	16.3M	16.467M	16.325M	16.467M
5825MHz_TnomVnom	Pass	500k	16.325M	16.442M	16.3M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	20.2M	17.666M	31.525M	17.716M
5200MHz_TnomVnom	Pass	Inf	27.375M	17.766M	44.9M	22.389M
5240MHz_TnomVnom	Pass	Inf	20.8M	17.641M	41.225M	18.016M
5745MHz_TnomVnom	Pass	500k	12.575M	17.541M	17.575M	17.691M
5785MHz_TnomVnom	Pass	500k	17.55M	17.666M	17.575M	17.641M
5825MHz_TnomVnom	Pass	500k	17.575M	17.691M	17.55M	17.666M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	39M	35.732M	39.55M	35.982M
5230MHz_TnomVnom	Pass	Inf	47.8M	36.182M	84.65M	38.831M
5755MHz_TnomVnom	Pass	500k	32.8M	36.032M	34M	35.982M
5795MHz_TnomVnom	Pass	500k	29.15M	35.782M	33.95M	35.932M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	82.9M	75.762M	83.1M	75.762M
5775MHz_TnomVnom	Pass	500k	73.3M	75.462M	74M	75.662M

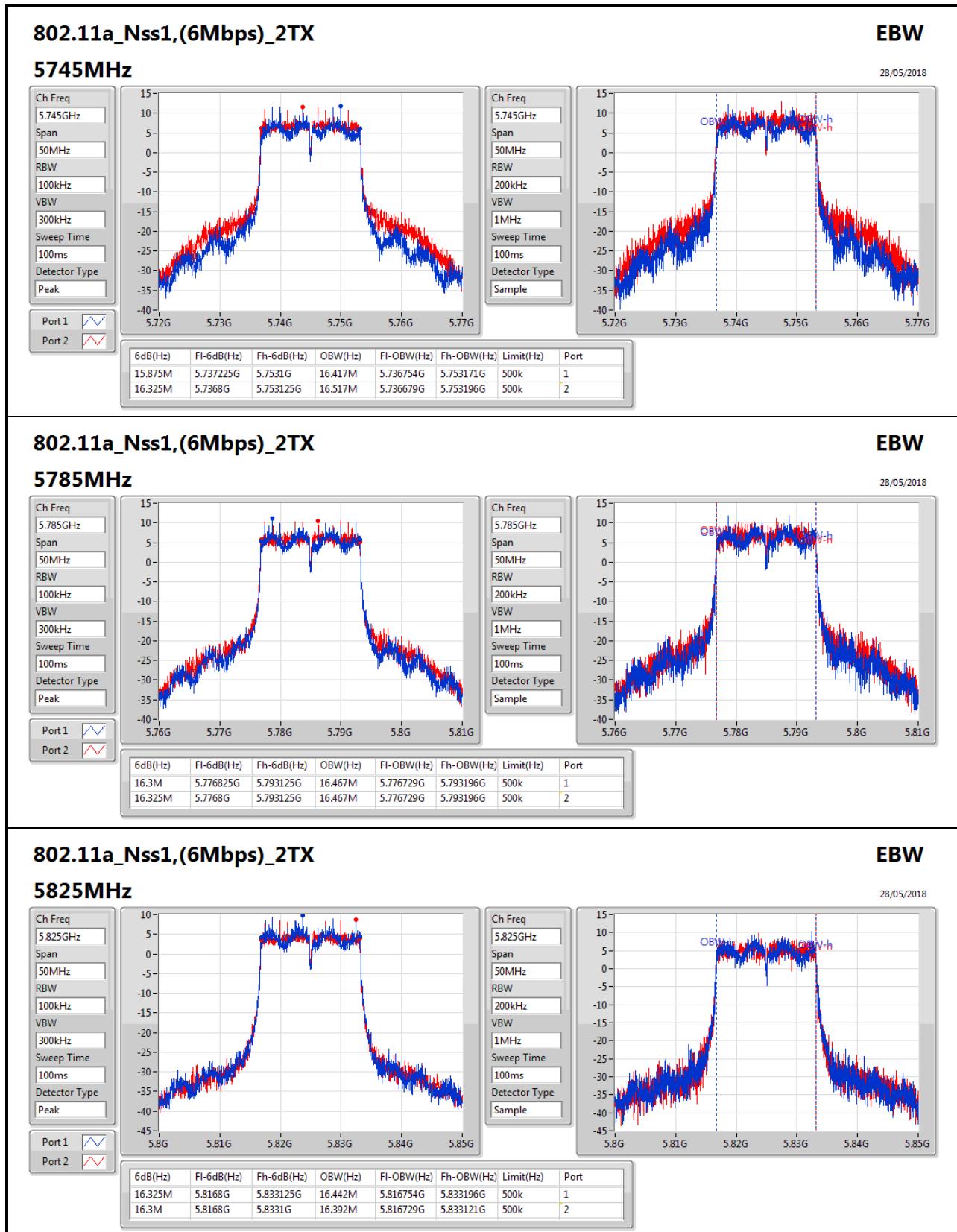
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

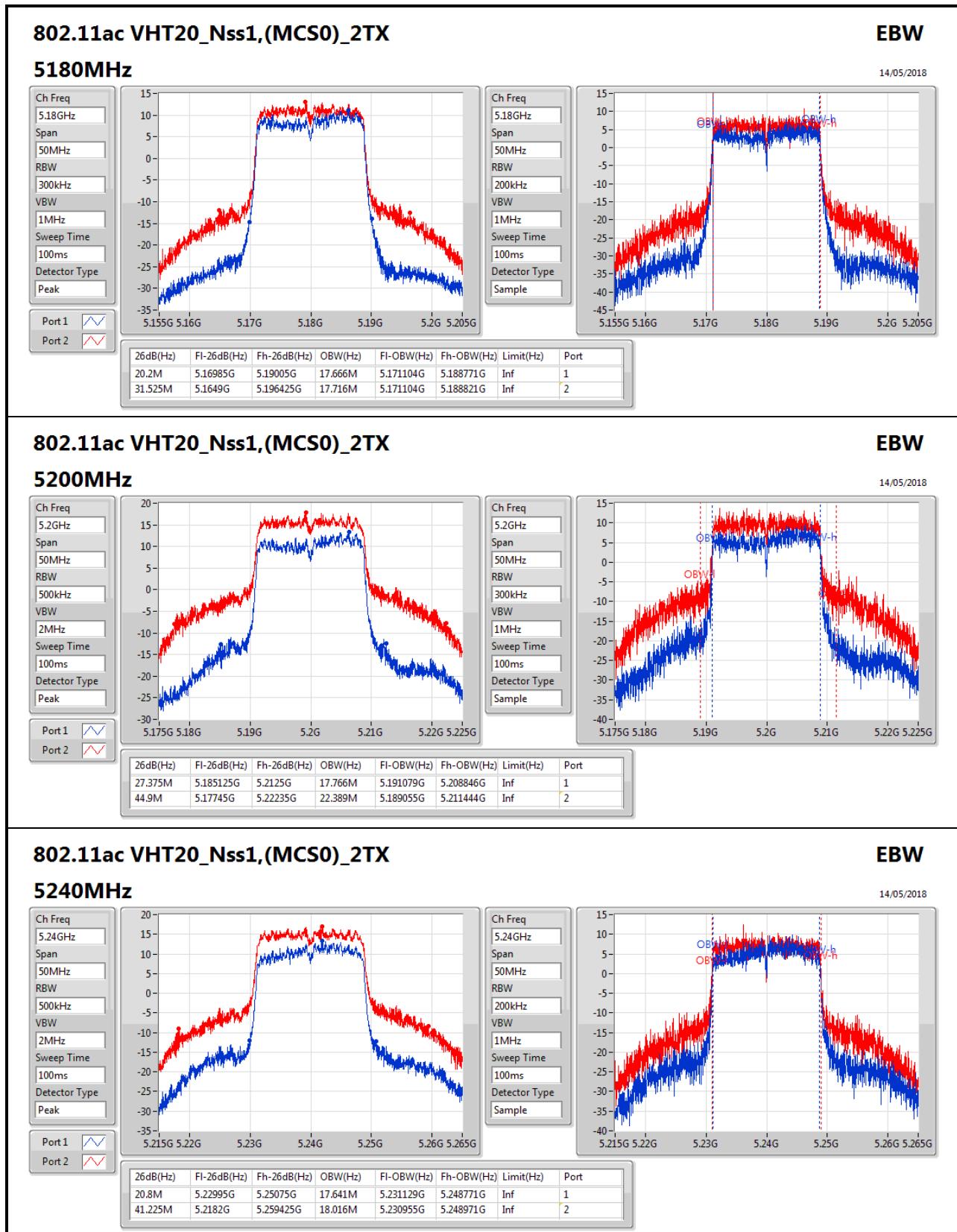
Port X-OBW = Port X 99% occupied bandwidth;

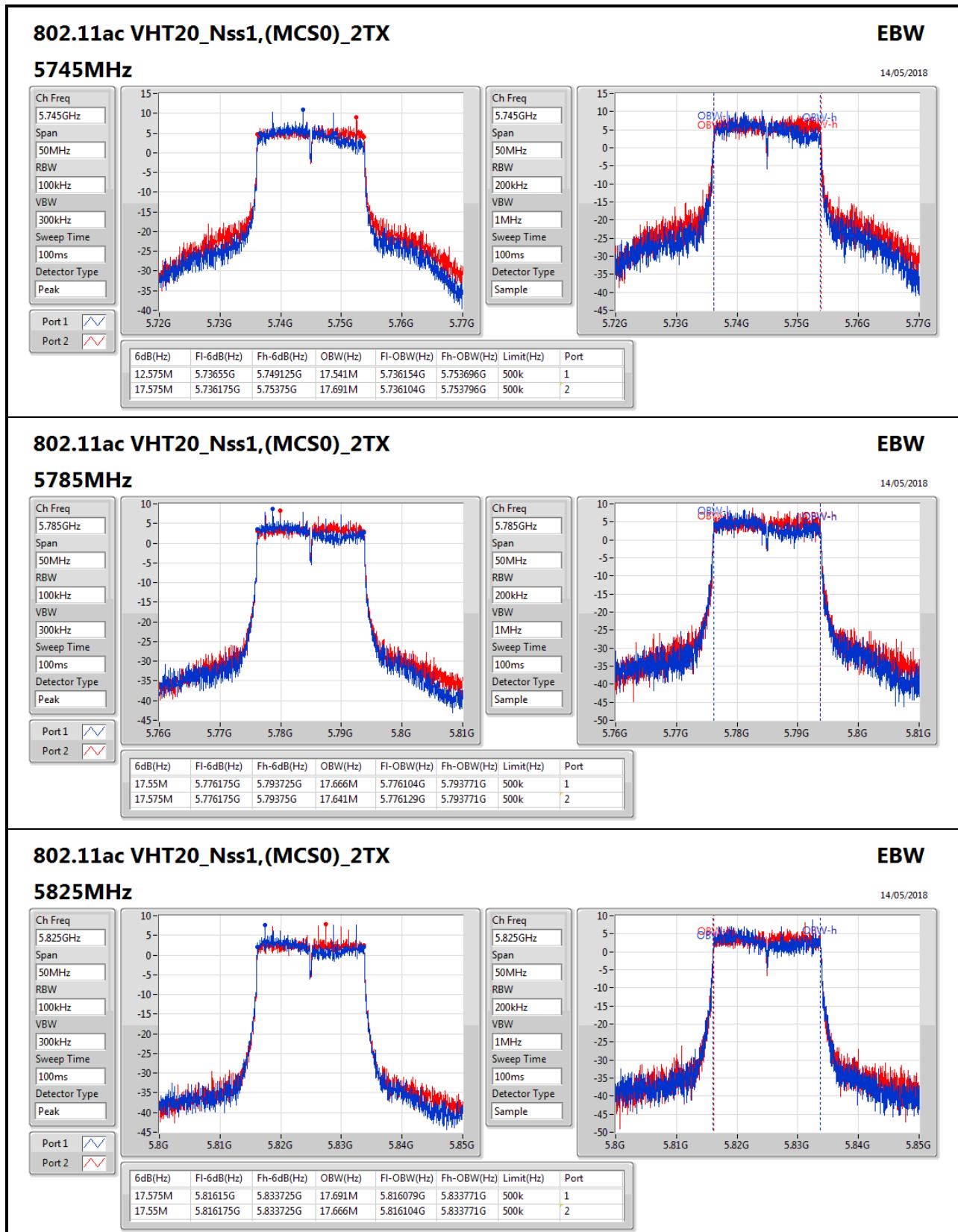


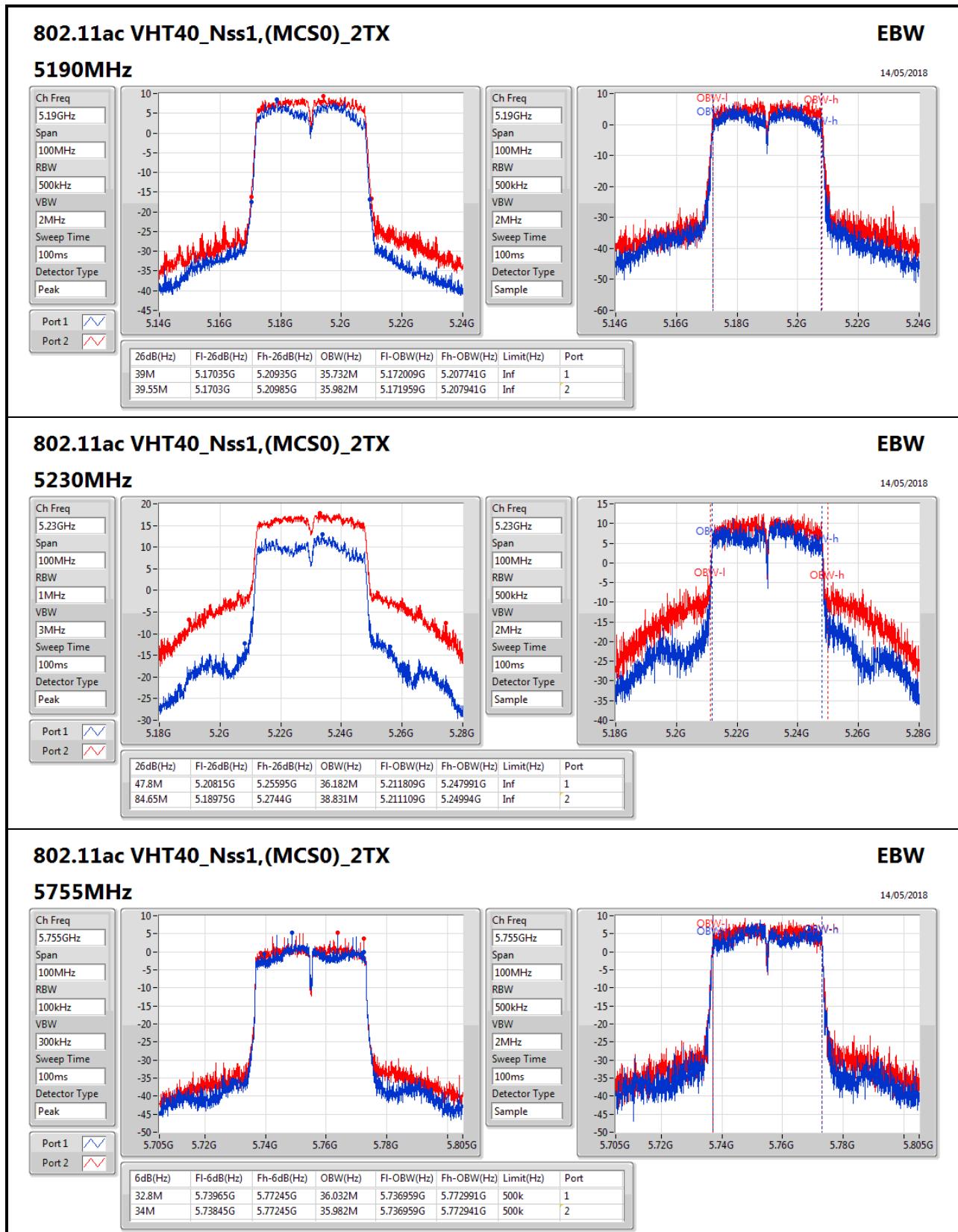


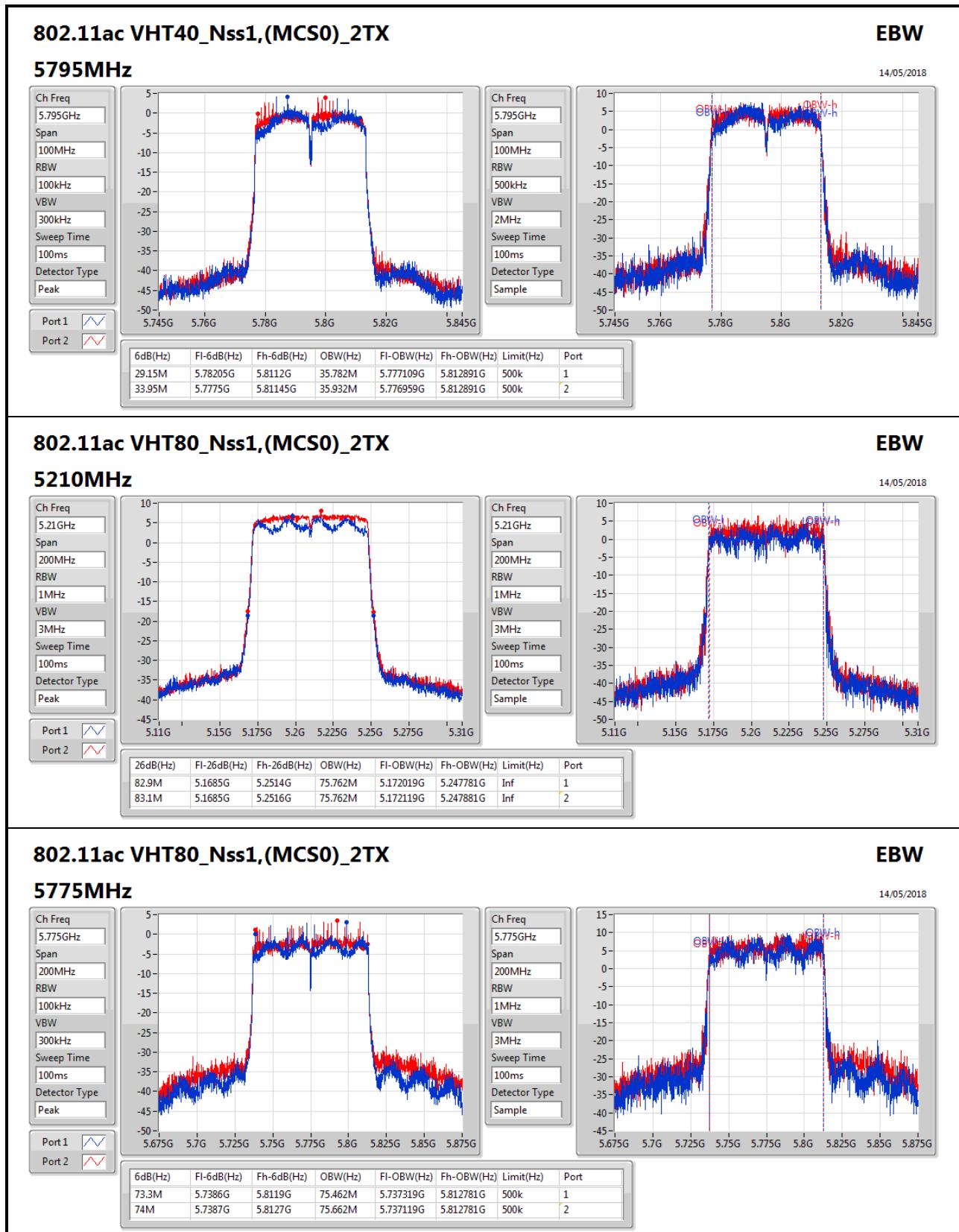












**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.68	0.23335	29.23	0.83753
802.11a_Nss1,(6Mbps)_2TX	25.09	0.32285	30.64	1.15878
802.11ac VHT20_Nss1,(MCS0)_2TX	25.87	0.38637	31.42	1.38676
802.11ac VHT40_Nss1,(MCS0)_2TX	25.62	0.36475	31.17	1.30918
802.11ac VHT80_Nss1,(MCS0)_2TX	18.77	0.07534	24.32	0.27040
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.10	0.20417	28.65	0.73282
802.11a_Nss1,(6Mbps)_2TX	24.61	0.28907	30.16	1.03753
802.11ac VHT20_Nss1,(MCS0)_2TX	24.53	0.28379	30.08	1.01859
802.11ac VHT40_Nss1,(MCS0)_2TX	22.46	0.17620	28.01	0.63241
802.11ac VHT80_Nss1,(MCS0)_2TX	22.71	0.18664	28.26	0.66988



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)_1TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	5.55		20.96	20.96	30.00	26.51	36.00
5200MHz_TnomVnom	Pass	5.55		23.68	23.68	30.00	29.23	36.00
5240MHz_TnomVnom	Pass	5.55		22.87	22.87	30.00	28.42	36.00
5745MHz_TnomVnom	Pass	5.55		23.10	23.10	30.00	28.65	36.00
5785MHz_TnomVnom	Pass	5.55		22.57	22.57	30.00	28.12	36.00
5825MHz_TnomVnom	Pass	5.55		21.86	21.86	30.00	27.41	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	5.55	18.51	20.56	22.67	30.00	28.22	36.00
5200MHz_TnomVnom	Pass	5.55	20.96	22.97	25.09	30.00	30.64	36.00
5240MHz_TnomVnom	Pass	5.55	20.58	22.24	24.50	30.00	30.05	36.00
5745MHz_TnomVnom	Pass	5.55	21.22	21.95	24.61	30.00	30.16	36.00
5785MHz_TnomVnom	Pass	5.55	20.92	21.30	24.12	30.00	29.67	36.00
5825MHz_TnomVnom	Pass	5.55	19.65	19.64	22.66	30.00	28.21	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	5.55	19.54	21.90	23.89	30.00	29.44	36.00
5200MHz_TnomVnom	Pass	5.55	21.70	23.78	25.87	30.00	31.42	36.00
5240MHz_TnomVnom	Pass	5.55	21.31	22.95	25.22	30.00	30.77	36.00
5745MHz_TnomVnom	Pass	5.55	21.27	21.76	24.53	30.00	30.08	36.00
5785MHz_TnomVnom	Pass	5.55	19.64	20.33	23.01	30.00	28.56	36.00
5825MHz_TnomVnom	Pass	5.55	19.15	19.56	22.37	30.00	27.92	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	5.55	16.89	19.09	21.14	30.00	26.69	36.00
5230MHz_TnomVnom	Pass	5.55	21.36	23.58	25.62	30.00	31.17	36.00
5755MHz_TnomVnom	Pass	5.55	19.08	19.79	22.46	30.00	28.01	36.00
5795MHz_TnomVnom	Pass	5.55	18.07	18.52	21.31	30.00	26.86	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	5.55	14.65	16.64	18.77	30.00	24.32	36.00
5775MHz_TnomVnom	Pass	5.55	19.31	20.06	22.71	30.00	28.26	36.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	22.86	0.19320	31.42	1.38676
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	22.61	0.18239	31.17	1.30918
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	15.76	0.03767	24.32	0.27040
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	21.52	0.14191	30.08	1.01859
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	19.45	0.08810	28.01	0.63241
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	19.70	0.09333	28.26	0.66988



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	8.56	16.53	18.89	20.88	27.44	29.44	36.00
5200MHz_TnomVnom	Pass	8.56	18.69	20.77	22.86	27.44	31.42	36.00
5240MHz_TnomVnom	Pass	8.56	18.30	19.94	22.21	27.44	30.77	36.00
5745MHz_TnomVnom	Pass	8.56	18.26	18.75	21.52	27.44	30.08	36.00
5785MHz_TnomVnom	Pass	8.56	16.63	17.32	20.00	27.44	28.56	36.00
5825MHz_TnomVnom	Pass	8.56	16.14	16.55	19.36	27.44	27.92	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	8.56	13.88	16.08	18.13	27.44	26.69	36.00
5230MHz_TnomVnom	Pass	8.56	18.35	20.57	22.61	27.44	31.17	36.00
5755MHz_TnomVnom	Pass	8.56	16.07	16.78	19.45	27.44	28.01	36.00
5795MHz_TnomVnom	Pass	8.56	15.06	15.51	18.30	27.44	26.86	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	8.56	11.64	13.63	15.76	27.44	24.32	36.00
5775MHz_TnomVnom	Pass	8.56	16.30	17.05	19.70	27.44	28.26	36.00

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

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	10.56	16.11
802.11a_Nss1,(6Mbps)_2TX	13.13	21.69
802.11ac VHT20_Nss1,(MCS0)_2TX	12.54	21.10
802.11ac VHT40_Nss1,(MCS0)_2TX	10.01	18.57
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.01	8.55
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	8.64	14.19
802.11a_Nss1,(6Mbps)_2TX	11.54	20.10
802.11ac VHT20_Nss1,(MCS0)_2TX	10.01	18.57
802.11ac VHT40_Nss1,(MCS0)_2TX	5.22	13.78
802.11ac VHT80_Nss1,(MCS0)_2TX	2.62	11.18

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	5.55		7.81	7.81	17.00	13.36	23.00
5200MHz_TnomVnom	Pass	5.55		10.56	10.56	17.00	16.11	23.00
5240MHz_TnomVnom	Pass	5.55		9.79	9.79	17.00	15.34	23.00
5745MHz_TnomVnom	Pass	5.55		8.64	8.64	30.00	14.19	36.00
5785MHz_TnomVnom	Pass	5.55		8.03	8.03	30.00	13.58	36.00
5825MHz_TnomVnom	Pass	5.55		6.98	6.98	30.00	12.53	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	8.56	7.09	8.24	10.67	14.44	19.23	23.00
5200MHz_TnomVnom	Pass	8.56	9.55	10.68	13.13	14.44	21.69	23.00
5240MHz_TnomVnom	Pass	8.56	9.30	10.09	12.67	14.44	21.23	23.00
5745MHz_TnomVnom	Pass	8.56	8.84	8.56	11.54	27.44	20.10	36.00
5785MHz_TnomVnom	Pass	8.56	8.39	7.82	11.00	27.44	19.56	36.00
5825MHz_TnomVnom	Pass	8.56	6.90	5.96	9.42	27.44	17.98	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	8.56	6.67	8.40	10.58	14.44	19.14	23.00
5200MHz_TnomVnom	Pass	8.56	8.90	10.18	12.54	14.44	21.10	23.00
5240MHz_TnomVnom	Pass	8.56	8.84	9.45	12.15	14.44	20.71	23.00
5745MHz_TnomVnom	Pass	8.56	7.33	6.68	10.01	27.44	18.57	36.00
5785MHz_TnomVnom	Pass	8.56	5.85	5.32	8.44	27.44	17.00	36.00
5825MHz_TnomVnom	Pass	8.56	4.96	4.23	7.55	27.44	16.11	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	8.56	1.63	2.92	5.31	14.44	13.87	23.00
5230MHz_TnomVnom	Pass	8.56	6.45	7.48	10.01	14.44	18.57	23.00
5755MHz_TnomVnom	Pass	8.56	2.52	2.10	5.22	27.44	13.78	36.00
5795MHz_TnomVnom	Pass	8.56	1.44	0.85	4.06	27.44	12.62	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	8.56	-3.60	-2.51	-0.01	14.44	8.55	23.00
5775MHz_TnomVnom	Pass	8.56	-0.17	-0.42	2.62	27.44	11.18	36.00

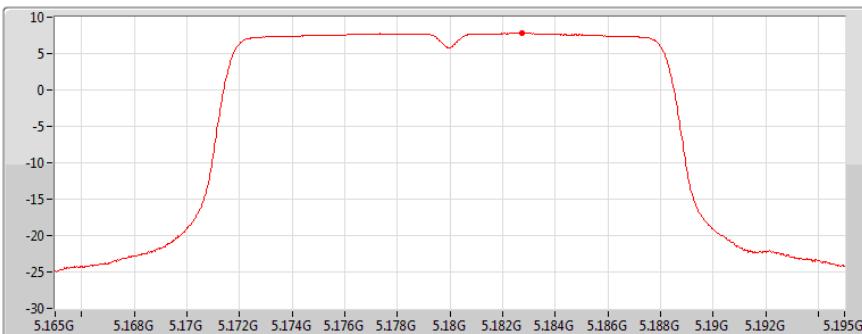
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

**802.11a_Nss1,(6Mbps)_1TX****PSD****5180MHz**

14/05/2018

Ch Freq
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS



Port 2

802.11a_Nss1,(6Mbps)_1TX**PSD****5200MHz**

14/05/2018

Ch Freq
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS

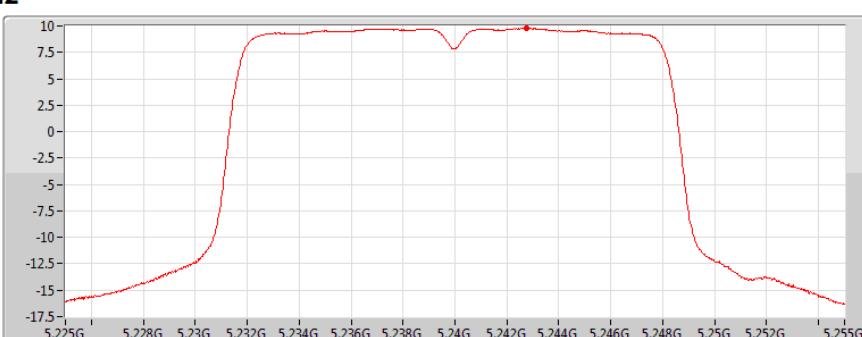


Port 2

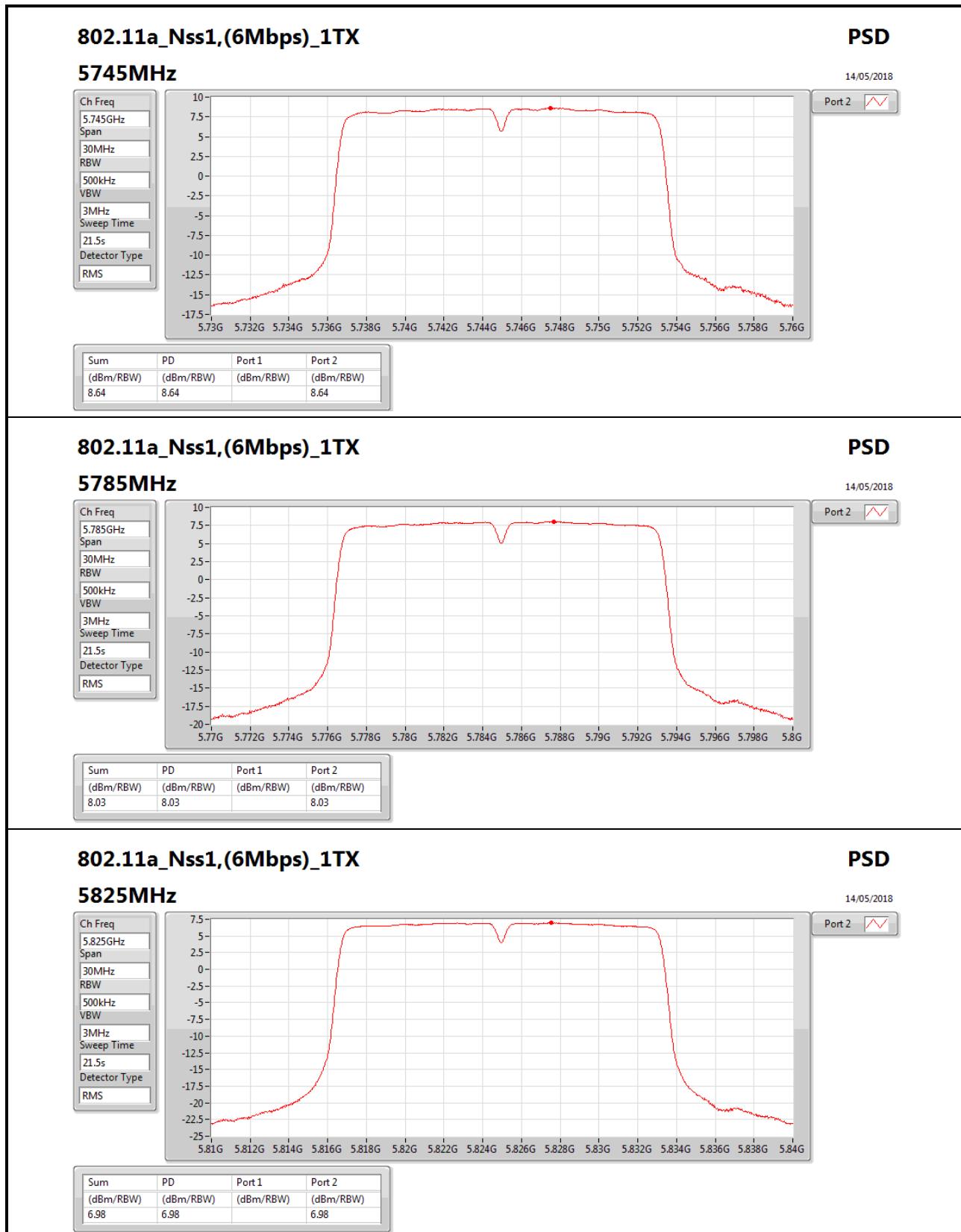
802.11a_Nss1,(6Mbps)_1TX**PSD****5240MHz**

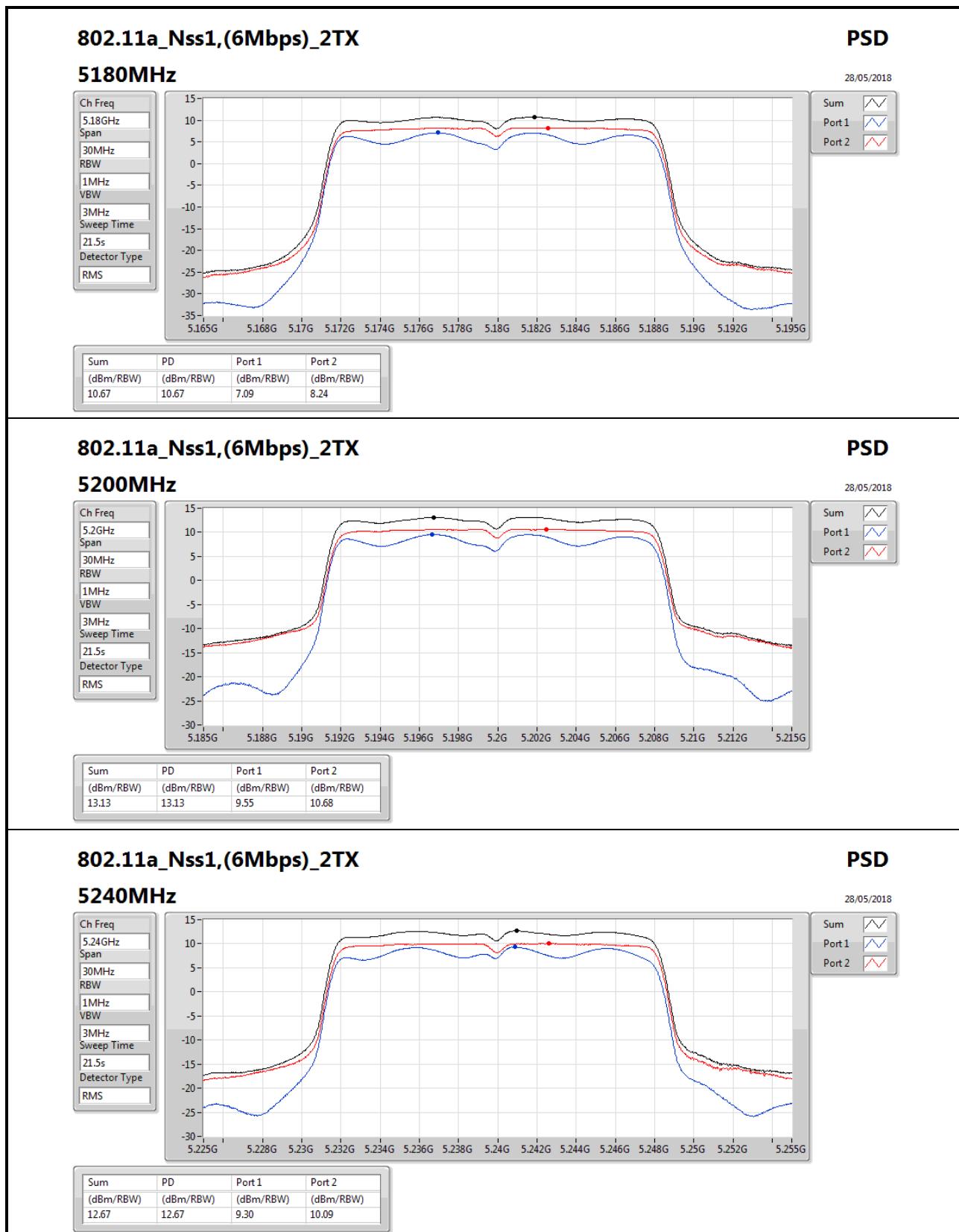
14/05/2018

Ch Freq
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS



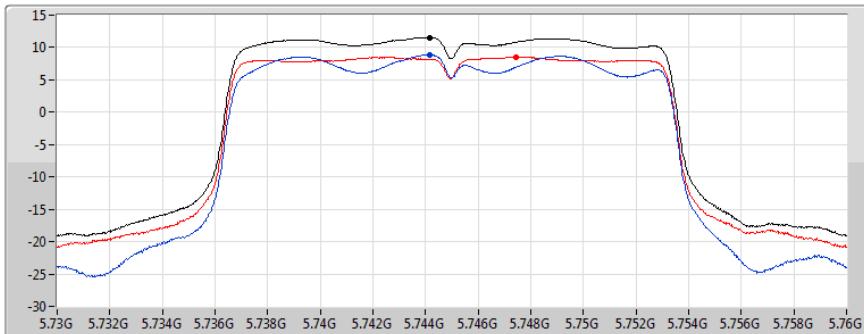
Port 2





802.11a_Nss1,(6Mbps)_2TX
5745MHz

Ch Freq
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS


PSD

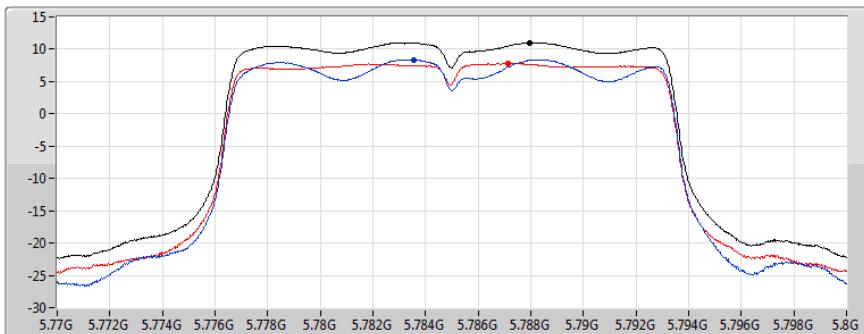
28/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.54	11.54	8.84	8.56

802.11a_Nss1,(6Mbps)_2TX
5785MHz

Ch Freq
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS


PSD

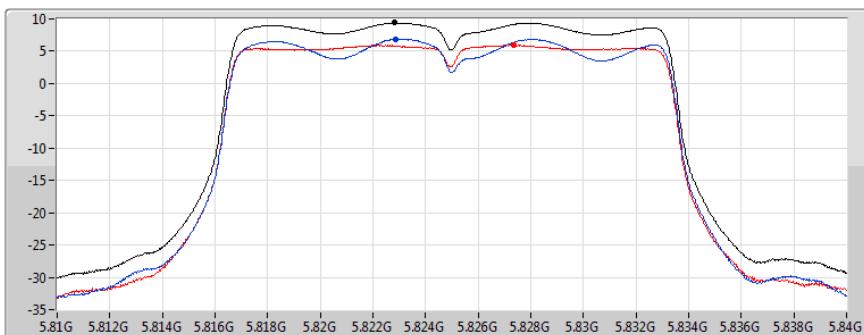
28/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.00	11.00	8.39	7.82

802.11a_Nss1,(6Mbps)_2TX
5825MHz

Ch Freq
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.5s
Detector Type
RMS


PSD

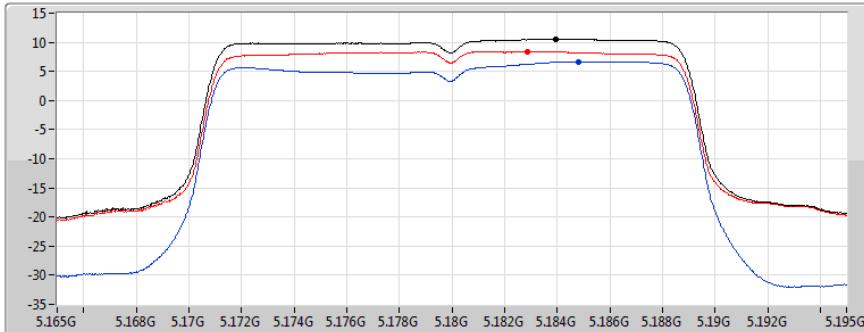
28/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.42	9.42	6.90	5.96

**802.11ac VHT20_Nss1,(MCS0)_2TX****5180MHz**

Ch Freq
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS

**PSD**

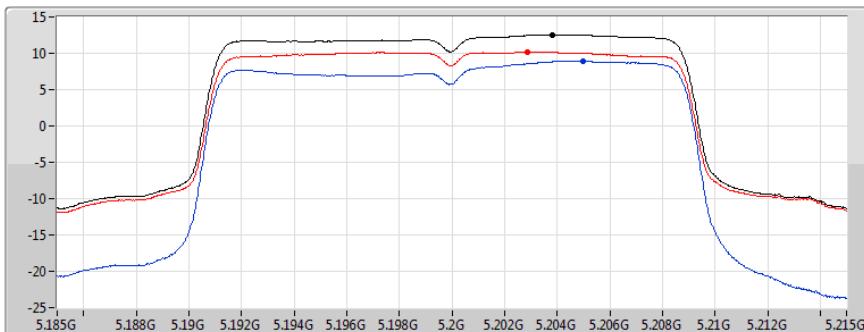
14/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.58	10.58	6.67	8.40

802.11ac VHT20_Nss1,(MCS0)_2TX**5200MHz**

Ch Freq
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS

**PSD**

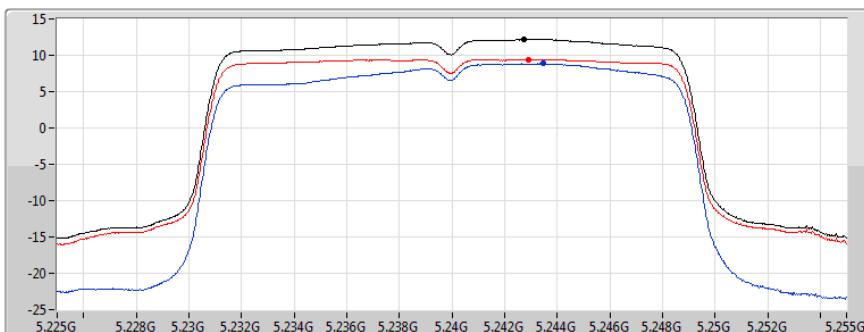
14/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.54	12.54	8.90	10.18

802.11ac VHT20_Nss1,(MCS0)_2TX**5240MHz**

Ch Freq
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS

**PSD**

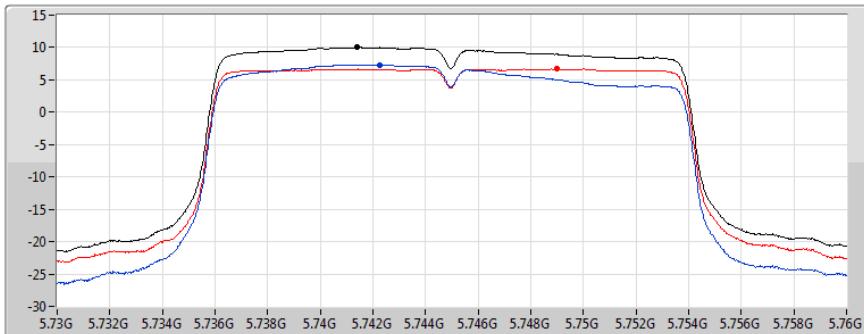
14/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.15	12.15	8.84	9.45

**802.11ac VHT20_Nss1,(MCS0)_2TX****5745MHz**

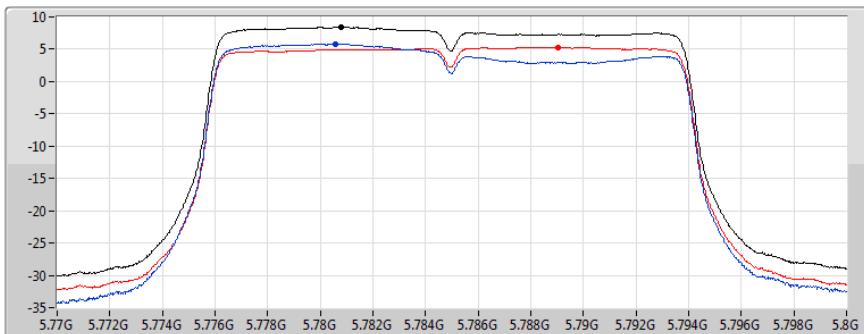
Ch Freq
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.01	10.01	7.33	6.68

PSD**802.11ac VHT20_Nss1,(MCS0)_2TX****5785MHz**

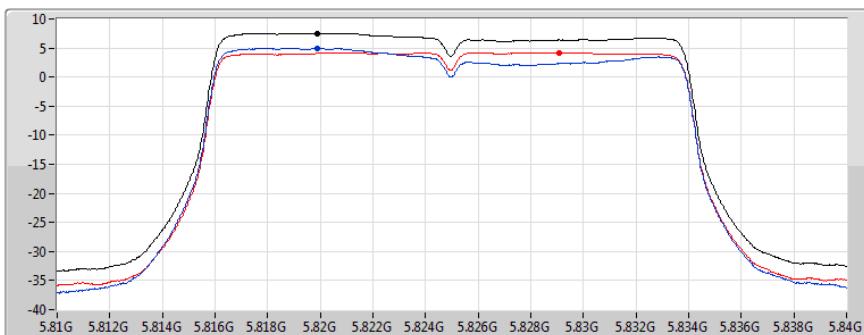
Ch Freq
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.44	8.44	5.85	5.32

PSD**802.11ac VHT20_Nss1,(MCS0)_2TX****5825MHz**

Ch Freq
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
51s
Detector Type
RMS

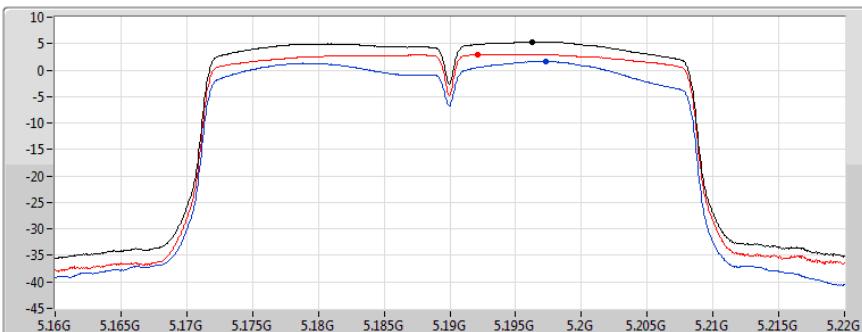


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.55	7.55	4.96	4.23

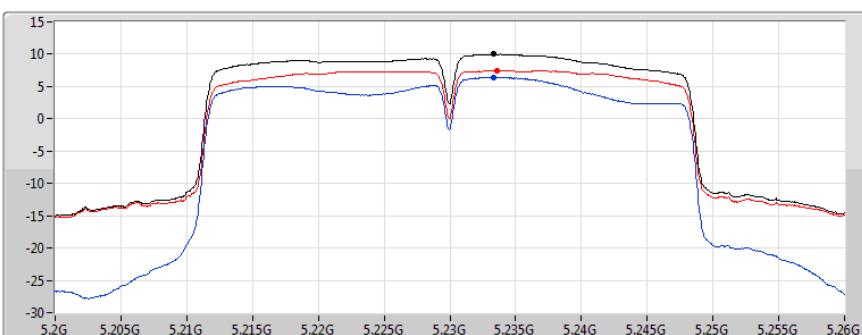
PSD

**802.11ac VHT40_Nss1,(MCS0)_2TX****5190MHz**

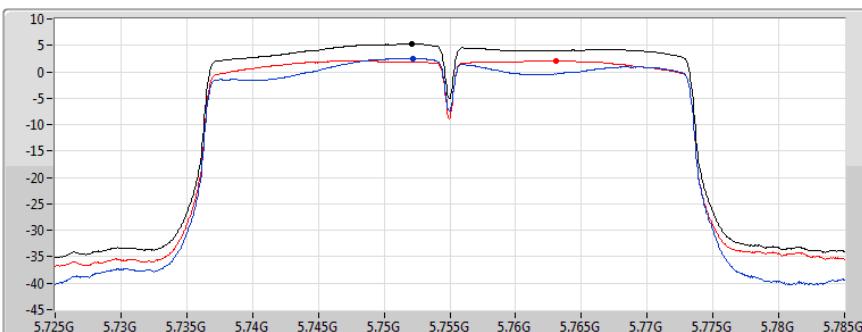
Ch Freq
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
25.3s
Detector Type
RMS

**PSD****802.11ac VHT40_Nss1,(MCS0)_2TX****5230MHz**

Ch Freq
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
25.3s
Detector Type
RMS

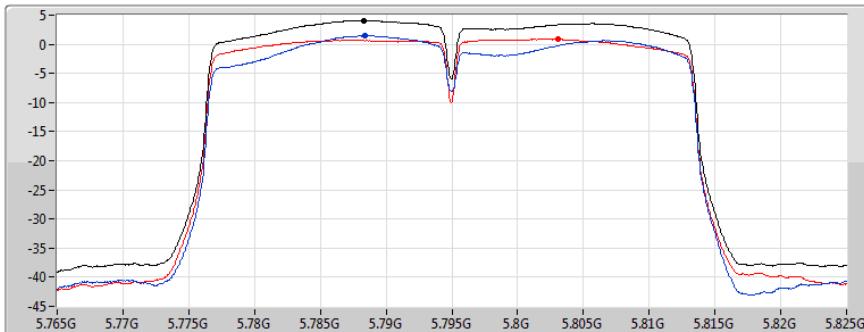
**PSD****802.11ac VHT40_Nss1,(MCS0)_2TX****5755MHz**

Ch Freq
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
25.3s
Detector Type
RMS

**PSD**

**802.11ac VHT40_Nss1,(MCS0)_2TX****5795MHz**

Ch Freq
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
25.3s
Detector Type
RMS

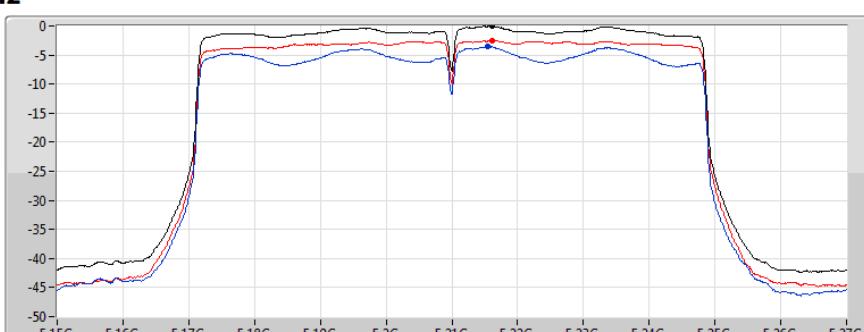
**PSD**

14/05/2018

Sum
Port 1
Port 2

802.11ac VHT80_Nss1,(MCS0)_2TX**5210MHz**

Ch Freq
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
12.3s
Detector Type
RMS

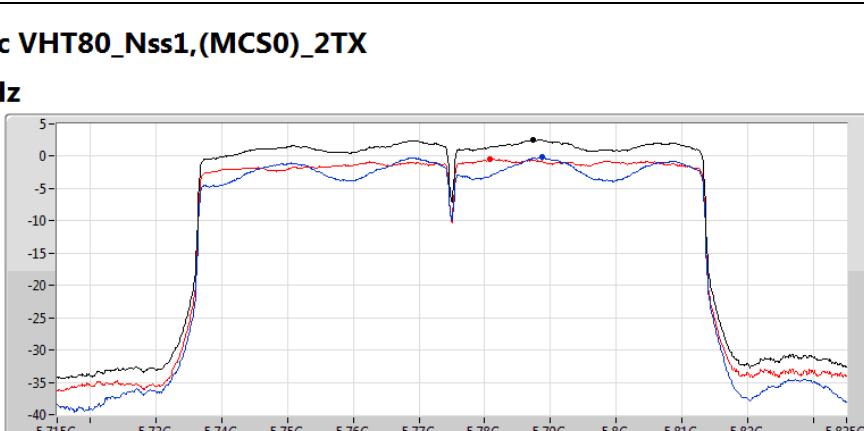
**PSD**

14/05/2018

Sum
Port 1
Port 2

802.11ac VHT80_Nss1,(MCS0)_2TX**5775MHz**

Ch Freq
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
12.3s
Detector Type
RMS

**PSD**

14/05/2018

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.06	4.06	1.44	0.85

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.01	-0.01	-3.60	-2.51

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.62	2.62	-0.17	-0.42

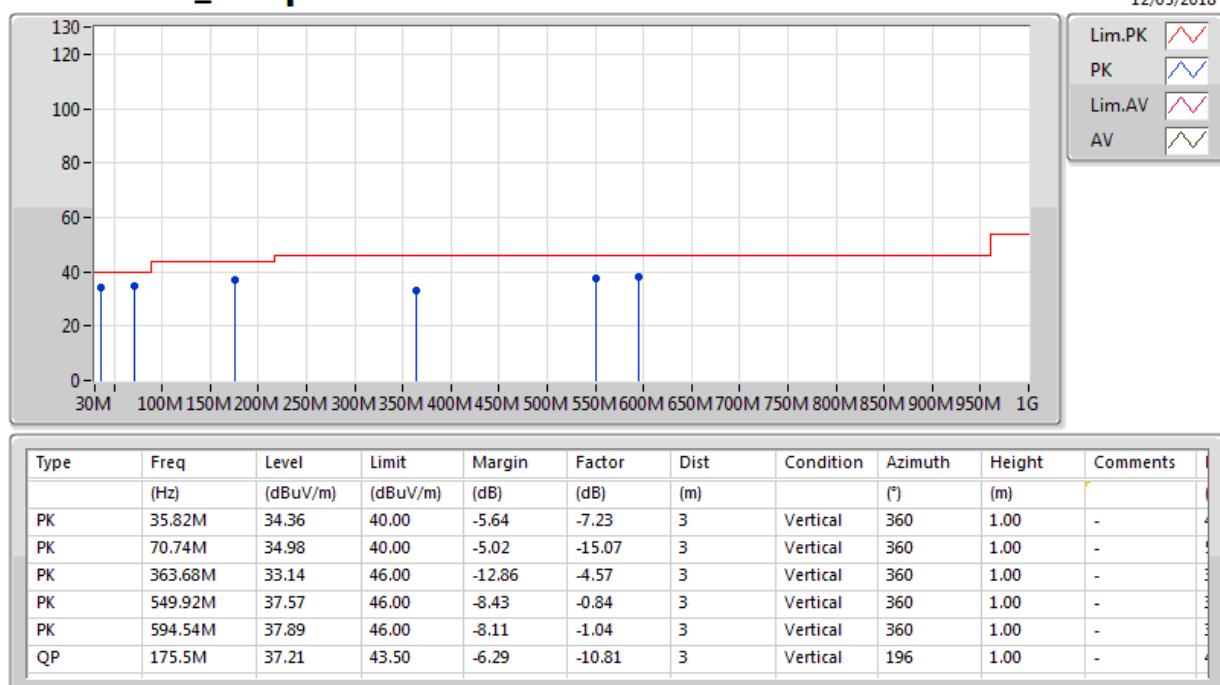
**Summary**

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	QP	177.44M	39.09	43.50	-4.41	-10.88	3	Horizontal	254	1.33	-



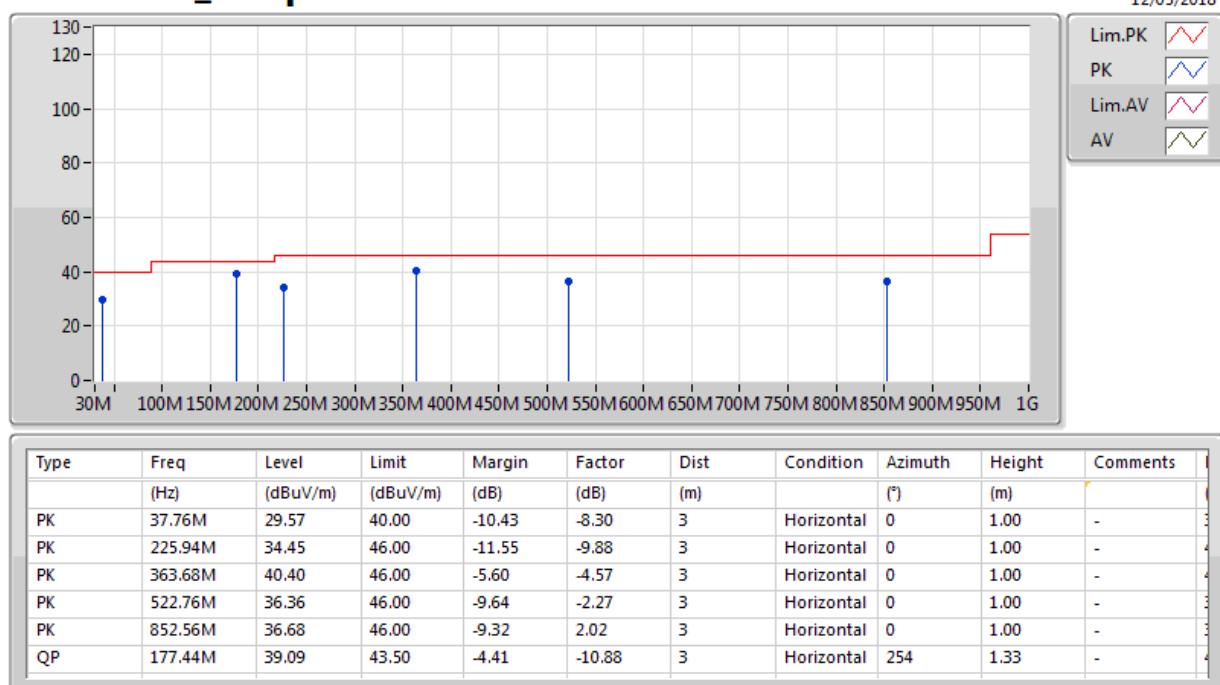
Result

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	35.82M	34.36	40.00	-5.64	-7.23	3	Vertical	360	1.00	-
5775MHz	Pass	PK	70.74M	34.98	40.00	-5.02	-15.07	3	Vertical	360	1.00	-
5775MHz	Pass	PK	363.68M	33.14	46.00	-12.86	-4.57	3	Vertical	360	1.00	-
5775MHz	Pass	PK	549.92M	37.57	46.00	-8.43	-0.84	3	Vertical	360	1.00	-
5775MHz	Pass	PK	594.54M	37.89	46.00	-8.11	-1.04	3	Vertical	360	1.00	-
5775MHz	Pass	QP	175.5M	37.21	43.50	-6.29	-10.81	3	Vertical	196	1.00	-
5775MHz	Pass	PK	37.76M	29.57	40.00	-10.43	-8.30	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	225.94M	34.45	46.00	-11.55	-9.88	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	363.68M	40.40	46.00	-5.60	-4.57	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	522.76M	36.36	46.00	-9.64	-2.27	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	852.56M	36.68	46.00	-9.32	2.02	3	Horizontal	0	1.00	-
5775MHz	Pass	QP	177.44M	39.09	43.50	-4.41	-10.88	3	Horizontal	254	1.33	-

**802.11ac VHT80_Nss1,(MCS0)_2TX****5775MHz_Adapter**

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_Adapter





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)_1TX	Pass	AV	15.5994G	53.86	54.00	-0.14	15.54	3	Horizontal	59	2.90	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	15.59802G	53.83	54.00	-0.17	15.25	3	Vertical	265	1.86	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.1494G	53.72	54.00	-0.28	2.66	3	Horizontal	325	2.16	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	15.68082G	53.68	54.00	-0.32	15.37	3	Horizontal	38	1.85	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.138G	53.73	54.00	-0.27	5.65	3	Horizontal	344	1.72	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	17.47446G	53.77	54.00	-0.23	17.11	3	Vertical	276	1.72	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	17.3553G	53.84	54.00	-0.16	20.93	3	Vertical	259	1.81	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	17.35842G	53.82	54.00	-0.18	16.36	3	Vertical	106	1.74	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	17.26061G	53.50	54.00	-0.50	19.32	3	Horizontal	48	1.01	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	17.32241G	53.21	54.00	-0.79	19.54	3	Vertical	67	1.75	-



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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1496G	49.42	54.00	-4.58	5.67	3	Vertical	239	3.19	-
5180MHz	Pass	AV	5.1772G	95.18	Inf	-Inf	5.74	3	Vertical	239	3.19	-
5180MHz	Pass	PK	5.1498G	62.69	74.00	-11.31	5.67	3	Vertical	239	3.19	-
5180MHz	Pass	PK	5.1764G	103.83	Inf	-Inf	5.73	3	Vertical	239	3.19	-
5180MHz	Pass	AV	5.149995G	53.16	54.00	-0.84	5.67	3	Horizontal	333	3.15	-
5180MHz	Pass	AV	5.1778G	103.99	Inf	-Inf	5.74	3	Horizontal	333	3.15	-
5180MHz	Pass	PK	5.1496G	68.47	74.00	-5.53	5.67	3	Horizontal	333	3.15	-
5180MHz	Pass	PK	5.1768G	112.89	Inf	-Inf	5.73	3	Horizontal	333	3.15	-
5180MHz	Pass	AV	15.5469G	41.36	54.00	-12.64	15.65	3	Vertical	317	1.76	-
5180MHz	Pass	PK	6.906561G	60.50	68.20	-7.70	9.35	3	Vertical	275	2.90	-
5180MHz	Pass	PK	15.53616G	53.75	74.00	-20.25	15.68	3	Vertical	317	1.76	-
5180MHz	Pass	AV	15.53976G	41.43	54.00	-12.57	15.67	3	Horizontal	24	1.73	-
5180MHz	Pass	PK	6.906641G	56.94	68.20	-11.26	9.35	3	Horizontal	15	1.01	-
5180MHz	Pass	PK	15.54702G	52.27	74.00	-21.73	15.65	3	Horizontal	24	1.73	-
5200MHz	Pass	AV	5.1488G	47.84	54.00	-6.16	5.67	3	Vertical	315	3.00	-
5200MHz	Pass	AV	5.202G	96.27	Inf	-Inf	5.80	3	Vertical	315	3.00	-
5200MHz	Pass	PK	5.146G	59.73	74.00	-14.27	5.67	3	Vertical	315	3.00	-
5200MHz	Pass	PK	5.2032G	104.67	Inf	-Inf	5.80	3	Vertical	315	3.00	-
5200MHz	Pass	AV	5.1492G	48.40	54.00	-5.60	5.67	3	Horizontal	327	3.12	-
5200MHz	Pass	AV	5.1972G	104.57	Inf	-Inf	5.78	3	Horizontal	327	3.12	-
5200MHz	Pass	PK	5.1404G	59.06	74.00	-14.94	5.65	3	Horizontal	327	3.12	-
5200MHz	Pass	PK	5.1968G	113.33	Inf	-Inf	5.78	3	Horizontal	327	3.12	-
5200MHz	Pass	AV	15.5976G	50.91	54.00	-3.09	15.55	3	Vertical	329	1.79	-
5200MHz	Pass	PK	6.933319G	58.44	68.20	-9.76	9.42	3	Vertical	269	2.30	-
5200MHz	Pass	PK	15.59661G	63.81	74.00	-10.19	15.55	3	Vertical	329	1.79	-
5200MHz	Pass	AV	15.5994G	53.86	54.00	-0.14	15.54	3	Horizontal	59	2.90	-
5200MHz	Pass	PK	6.933229G	56.37	68.20	-11.83	9.42	3	Horizontal	16	1.04	-
5200MHz	Pass	PK	15.60629G	67.42	74.00	-6.58	15.53	3	Horizontal	59	2.90	-
5240MHz	Pass	AV	5.1434G	43.54	54.00	-10.46	2.66	3	Vertical	253	1.74	-
5240MHz	Pass	AV	5.2376G	93.66	Inf	-Inf	2.78	3	Vertical	253	1.74	-
5240MHz	Pass	AV	5.369G	42.76	54.00	-11.24	2.95	3	Vertical	253	1.74	-
5240MHz	Pass	PK	5.0996G	56.38	74.00	-17.62	2.60	3	Vertical	253	1.74	-
5240MHz	Pass	PK	5.2364G	103.78	Inf	-Inf	2.78	3	Vertical	253	1.74	-
5240MHz	Pass	PK	5.381G	55.98	74.00	-18.02	2.97	3	Vertical	253	1.74	-
5240MHz	Pass	AV	5.1356G	44.53	54.00	-9.47	2.64	3	Horizontal	305	1.00	-
5240MHz	Pass	AV	5.243G	103.70	Inf	-Inf	2.79	3	Horizontal	305	1.00	-
5240MHz	Pass	AV	5.372G	43.38	54.00	-10.62	2.95	3	Horizontal	305	1.00	-
5240MHz	Pass	PK	5.0918G	56.84	74.00	-17.16	2.59	3	Horizontal	305	1.00	-
5240MHz	Pass	PK	5.2358G	113.04	Inf	-Inf	2.78	3	Horizontal	305	1.00	-
5240MHz	Pass	PK	5.3894G	54.49	74.00	-19.51	2.97	3	Horizontal	305	1.00	-
5240MHz	Pass	AV	6.986621G	50.61	54.00	-3.39	9.56	3	Vertical	267	2.37	-
5240MHz	Pass	AV	15.7175G	50.82	54.00	-3.18	15.29	3	Vertical	316	1.77	-
5240MHz	Pass	PK	6.986621G	55.81	74.00	-18.19	9.56	3	Vertical	267	2.37	-
5240MHz	Pass	PK	15.71661G	64.25	74.00	-9.75	15.29	3	Vertical	316	1.77	-
5240MHz	Pass	AV	6.986671G	48.20	54.00	-5.80	9.56	3	Horizontal	18	1.01	-
5240MHz	Pass	AV	15.7216G	53.76	54.00	-0.24	15.28	3	Horizontal	70	2.83	-
5240MHz	Pass	PK	6.986691G	54.72	74.00	-19.28	9.56	3	Horizontal	18	1.01	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5240MHz	Pass	PK	15.72589G	67.77	74.00	-6.23	15.27	3	Horizontal	70	2.83	-
5745MHz	Pass	AV	5.7486G	96.66	Inf	-Inf	3.58	3	Vertical	264	1.91	-
5745MHz	Pass	PK	5.6358G	54.61	68.20	-13.59	3.37	3	Vertical	264	1.91	-
5745MHz	Pass	PK	5.7474G	105.75	Inf	-Inf	3.58	3	Vertical	264	1.91	-
5745MHz	Pass	PK	5.9834G	54.05	68.20	-14.15	3.97	3	Vertical	264	1.91	-
5745MHz	Pass	AV	5.7486G	101.86	Inf	-Inf	3.58	3	Horizontal	328	3.14	-
5745MHz	Pass	PK	5.6442G	54.28	68.20	-13.92	3.38	3	Horizontal	328	3.14	-
5745MHz	Pass	PK	5.7438G	110.48	Inf	-Inf	3.57	3	Horizontal	328	3.14	-
5745MHz	Pass	PK	5.9622G	54.53	68.20	-13.67	3.97	3	Horizontal	328	3.14	-
5745MHz	Pass	AV	17.23452G	49.93	54.00	-4.07	15.55	3	Vertical	328	1.64	-
5745MHz	Pass	PK	17.24094G	61.73	74.00	-12.27	15.60	3	Vertical	328	1.64	-
5745MHz	Pass	AV	17.23284G	52.65	54.00	-1.35	15.54	3	Horizontal	35	2.32	-
5745MHz	Pass	PK	17.23764G	63.80	74.00	-10.20	15.57	3	Horizontal	35	2.32	-
5785MHz	Pass	AV	5.7886G	97.20	Inf	-Inf	3.65	3	Vertical	259	1.99	-
5785MHz	Pass	PK	5.6002G	56.00	68.20	-12.20	3.30	3	Vertical	259	1.99	-
5785MHz	Pass	PK	5.7886G	106.35	Inf	-Inf	3.65	3	Vertical	259	1.99	-
5785MHz	Pass	PK	5.9434G	56.10	68.20	-12.10	3.93	3	Vertical	259	1.99	-
5785MHz	Pass	AV	5.7886G	102.51	Inf	-Inf	3.65	3	Horizontal	332	3.13	-
5785MHz	Pass	PK	5.5954G	56.12	68.20	-12.08	3.30	3	Horizontal	332	3.13	-
5785MHz	Pass	PK	5.7838G	111.14	Inf	-Inf	3.64	3	Horizontal	332	3.13	-
5785MHz	Pass	PK	5.971G	56.65	68.20	-11.55	3.99	3	Horizontal	332	3.13	-
5785MHz	Pass	AV	17.35452G	51.98	54.00	-2.02	16.33	3	Vertical	279	1.73	-
5785MHz	Pass	PK	17.35644G	64.15	74.00	-9.85	16.35	3	Vertical	279	1.73	-
5785MHz	Pass	AV	17.35434G	53.04	54.00	-0.96	16.33	3	Horizontal	30	2.62	-
5785MHz	Pass	PK	17.35602G	66.00	74.00	-8.00	16.34	3	Horizontal	30	2.62	-
5825MHz	Pass	AV	5.8286G	96.55	Inf	-Inf	3.72	3	Vertical	257	1.90	-
5825MHz	Pass	PK	5.5826G	56.50	68.20	-11.70	3.28	3	Vertical	257	1.90	-
5825MHz	Pass	PK	5.8238G	106.18	Inf	-Inf	3.72	3	Vertical	257	1.90	-
5825MHz	Pass	PK	5.9702G	55.26	68.20	-12.94	3.99	3	Vertical	257	1.90	-
5825MHz	Pass	AV	5.8286G	102.04	Inf	-Inf	3.72	3	Horizontal	328	3.07	-
5825MHz	Pass	PK	5.6186G	55.12	68.20	-13.08	3.34	3	Horizontal	328	3.07	-
5825MHz	Pass	PK	5.8214G	110.86	Inf	-Inf	3.71	3	Horizontal	328	3.07	-
5825MHz	Pass	PK	5.963G	56.77	68.20	-11.43	3.97	3	Horizontal	328	3.07	-
5825MHz	Pass	AV	17.47446G	53.77	54.00	-0.23	17.11	3	Vertical	276	1.72	-
5825MHz	Pass	PK	17.47632G	66.69	74.00	-7.31	17.13	3	Vertical	276	1.72	-
5825MHz	Pass	AV	17.47386G	53.75	54.00	-0.25	17.11	3	Horizontal	30	2.60	-
5825MHz	Pass	PK	17.481G	66.27	74.00	-7.73	17.16	3	Horizontal	30	2.60	-
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	53.16	54.00	-0.84	3.68	3	Vertical	355	1.00	-
5180MHz	Pass	AV	5.181G	102.25	Inf	-Inf	3.74	3	Vertical	355	1.00	-
5180MHz	Pass	PK	5.1468G	68.02	74.00	-5.98	3.68	3	Vertical	355	1.00	-
5180MHz	Pass	PK	5.1856G	112.14	Inf	-Inf	3.74	3	Vertical	355	1.00	-
5180MHz	Pass	AV	5.149995G	53.27	54.00	-0.73	3.68	3	Horizontal	29	2.18	-
5180MHz	Pass	AV	5.1826G	102.34	Inf	-Inf	3.74	3	Horizontal	29	2.18	-
5180MHz	Pass	PK	5.1494G	71.07	74.00	-2.93	3.68	3	Horizontal	29	2.18	-
5180MHz	Pass	PK	5.1826G	112.50	Inf	-Inf	3.74	3	Horizontal	29	2.18	-
5180MHz	Pass	AV	15.53788G	51.40	54.00	-2.60	15.56	3	Vertical	265	1.79	-
5180MHz	Pass	PK	6.906604G	62.99	68.20	-5.21	7.73	3	Vertical	224	1.07	-
5180MHz	Pass	PK	15.53772G	65.48	74.00	-8.52	15.56	3	Vertical	265	1.79	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5180MHz	Pass	AV	15.53919G	48.27	54.00	-5.73	15.55	3	Horizontal	68	2.07	-
5180MHz	Pass	PK	6.9066G	65.07	68.20	-3.13	7.73	3	Horizontal	335	1.81	-
5180MHz	Pass	PK	15.53951G	60.24	74.00	-13.76	15.55	3	Horizontal	68	2.07	-
5200MHz	Pass	AV	5.1488G	44.70	54.00	-9.30	3.68	3	Vertical	355	1.15	-
5200MHz	Pass	AV	5.2052G	101.59	Inf	-Inf	3.78	3	Vertical	355	1.15	-
5200MHz	Pass	PK	5.146G	56.65	74.00	-17.35	3.68	3	Vertical	355	1.15	-
5200MHz	Pass	PK	5.2048G	111.71	Inf	-Inf	3.78	3	Vertical	355	1.15	-
5200MHz	Pass	AV	5.136G	44.95	54.00	-9.05	3.65	3	Horizontal	340	1.50	-
5200MHz	Pass	AV	5.2032G	100.50	Inf	-Inf	3.78	3	Horizontal	340	1.50	-
5200MHz	Pass	PK	5.1412G	55.92	74.00	-18.08	3.66	3	Horizontal	340	1.50	-
5200MHz	Pass	PK	5.2012G	110.91	Inf	-Inf	3.77	3	Horizontal	340	1.50	-
5200MHz	Pass	AV	15.59802G	53.83	54.00	-0.17	15.25	3	Vertical	265	1.86	-
5200MHz	Pass	PK	6.93332G	60.03	68.20	-8.17	7.80	3	Vertical	39	2.01	-
5200MHz	Pass	PK	15.60852G	68.45	74.00	-5.55	15.20	3	Vertical	265	1.86	-
5200MHz	Pass	AV	15.6015G	49.35	54.00	-4.65	15.23	3	Horizontal	178	1.94	-
5200MHz	Pass	PK	6.93334G	61.46	68.20	-6.74	7.80	3	Horizontal	331	1.86	-
5200MHz	Pass	PK	15.59646G	63.59	74.00	-10.41	15.26	3	Horizontal	178	1.94	-
5240MHz	Pass	AV	5.1212G	44.42	54.00	-9.58	3.63	3	Vertical	348	1.05	-
5240MHz	Pass	AV	5.2424G	102.13	Inf	-Inf	3.85	3	Vertical	348	1.05	-
5240MHz	Pass	AV	5.366G	44.97	54.00	-9.03	4.08	3	Vertical	348	1.05	-
5240MHz	Pass	PK	5.1116G	56.59	74.00	-17.41	3.61	3	Vertical	348	1.05	-
5240MHz	Pass	PK	5.2424G	112.03	Inf	-Inf	3.85	3	Vertical	348	1.05	-
5240MHz	Pass	PK	5.3594G	56.79	74.00	-17.21	4.07	3	Vertical	348	1.05	-
5240MHz	Pass	AV	5.1356G	44.78	54.00	-9.22	3.65	3	Horizontal	13	2.10	-
5240MHz	Pass	AV	5.2454G	102.14	Inf	-Inf	3.86	3	Horizontal	13	2.10	-
5240MHz	Pass	AV	5.3816G	45.12	54.00	-8.88	4.11	3	Horizontal	13	2.10	-
5240MHz	Pass	PK	5.0906G	56.98	74.00	-17.02	3.57	3	Horizontal	13	2.10	-
5240MHz	Pass	PK	5.2442G	112.00	Inf	-Inf	3.85	3	Horizontal	13	2.10	-
5240MHz	Pass	PK	5.3888G	56.81	74.00	-17.19	4.12	3	Horizontal	13	2.10	-
5240MHz	Pass	AV	15.71964G	53.10	54.00	-0.90	14.62	3	Vertical	265	1.84	-
5240MHz	Pass	PK	6.986542G	57.86	68.20	-10.34	7.95	3	Vertical	37	2.03	-
5240MHz	Pass	PK	15.71904G	68.29	74.00	-5.71	14.63	3	Vertical	265	1.84	-
5240MHz	Pass	AV	15.7171G	48.39	54.00	-5.61	14.64	3	Horizontal	162	1.13	-
5240MHz	Pass	PK	6.986644G	56.11	68.20	-12.09	7.95	3	Horizontal	344	1.02	-
5240MHz	Pass	PK	15.71694G	63.35	74.00	-10.65	14.64	3	Horizontal	162	1.13	-
5745MHz	Pass	AV	5.739G	102.31	Inf	-Inf	4.69	3	Vertical	349	1.03	-
5745MHz	Pass	PK	5.6394G	57.67	68.20	-10.53	4.54	3	Vertical	349	1.03	-
5745MHz	Pass	PK	5.739G	112.55	Inf	-Inf	4.69	3	Vertical	349	1.03	-
5745MHz	Pass	PK	5.9478G	56.81	68.20	-11.39	5.03	3	Vertical	349	1.03	-
5745MHz	Pass	AV	5.7438G	101.71	Inf	-Inf	4.70	3	Horizontal	347	1.85	-
5745MHz	Pass	PK	5.6418G	57.35	68.20	-10.85	4.54	3	Horizontal	347	1.85	-
5745MHz	Pass	PK	5.7414G	111.46	Inf	-Inf	4.70	3	Horizontal	347	1.85	-
5745MHz	Pass	PK	5.9562G	57.38	68.20	-10.82	5.03	3	Horizontal	347	1.85	-
5745MHz	Pass	AV	17.23452G	53.73	54.00	-0.27	20.11	3	Vertical	259	1.76	-
5745MHz	Pass	PK	17.23554G	68.30	74.00	-5.70	20.11	3	Vertical	259	1.76	-
5745MHz	Pass	AV	17.23518G	52.30	54.00	-1.70	20.11	3	Horizontal	214	1.61	-
5745MHz	Pass	PK	17.23878G	66.02	74.00	-7.98	20.14	3	Horizontal	214	1.61	-
5785MHz	Pass	AV	5.779G	102.66	Inf	-Inf	4.76	3	Vertical	348	1.00	-
5785MHz	Pass	PK	5.5462G	58.04	68.20	-10.16	4.39	3	Vertical	348	1.00	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5785MHz	Pass	PK	5.779G	112.03	Inf	-Inf	4.76	3	Vertical	348	1.00	-
5785MHz	Pass	PK	5.9878G	58.10	68.20	-10.10	5.08	3	Vertical	348	1.00	-
5785MHz	Pass	AV	5.7826G	100.71	Inf	-Inf	4.76	3	Horizontal	324	2.03	-
5785MHz	Pass	PK	5.593G	57.42	68.20	-10.78	4.46	3	Horizontal	324	2.03	-
5785MHz	Pass	PK	5.7814G	110.44	Inf	-Inf	4.76	3	Horizontal	324	2.03	-
5785MHz	Pass	PK	5.9482G	56.96	68.20	-11.24	5.03	3	Horizontal	324	2.03	-
5785MHz	Pass	AV	17.3553G	53.84	54.00	-0.16	20.93	3	Vertical	259	1.81	-
5785MHz	Pass	PK	17.35554G	68.43	74.00	-5.57	20.93	3	Vertical	259	1.81	-
5785MHz	Pass	AV	17.3562G	52.63	54.00	-1.37	20.94	3	Horizontal	213	1.72	-
5785MHz	Pass	PK	17.35218G	66.27	74.00	-7.73	20.91	3	Horizontal	213	1.72	-
5825MHz	Pass	AV	5.8202G	99.64	Inf	-Inf	4.82	3	Vertical	349	1.01	-
5825MHz	Pass	PK	5.5622G	58.35	68.20	-9.85	4.41	3	Vertical	349	1.01	-
5825MHz	Pass	PK	5.8178G	109.41	Inf	-Inf	4.82	3	Vertical	349	1.01	-
5825MHz	Pass	PK	5.9378G	57.47	68.20	-10.73	5.01	3	Vertical	349	1.01	-
5825MHz	Pass	AV	5.8226G	100.37	Inf	-Inf	4.83	3	Horizontal	344	2.08	-
5825MHz	Pass	PK	5.5994G	57.50	68.20	-10.70	4.47	3	Horizontal	344	2.08	-
5825MHz	Pass	PK	5.8238G	110.18	Inf	-Inf	4.83	3	Horizontal	344	2.08	-
5825MHz	Pass	PK	5.9294G	57.70	68.20	-10.50	4.99	3	Horizontal	344	2.08	-
5825MHz	Pass	AV	17.47548G	53.80	54.00	-0.20	21.75	3	Vertical	249	1.01	-
5825MHz	Pass	PK	17.47854G	68.91	74.00	-5.09	21.77	3	Vertical	249	1.01	-
5825MHz	Pass	AV	17.47314G	53.33	54.00	-0.67	21.73	3	Horizontal	258	1.68	-
5825MHz	Pass	PK	17.47326G	68.78	74.00	-5.22	21.73	3	Horizontal	258	1.68	-
802.11ac VHT20_Nss1_(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	53.07	54.00	-0.93	2.66	3	Vertical	259	2.09	-
5180MHz	Pass	AV	5.1832G	102.36	Inf	-Inf	2.71	3	Vertical	259	2.09	-
5180MHz	Pass	PK	5.1488G	69.98	74.00	-4.02	2.66	3	Vertical	259	2.09	-
5180MHz	Pass	PK	5.184G	112.39	Inf	-Inf	2.71	3	Vertical	259	2.09	-
5180MHz	Pass	AV	5.1494G	53.72	54.00	-0.28	2.66	3	Horizontal	325	2.16	-
5180MHz	Pass	AV	5.1852G	103.40	Inf	-Inf	2.71	3	Horizontal	325	2.16	-
5180MHz	Pass	PK	5.1448G	72.75	74.00	-1.25	2.66	3	Horizontal	325	2.16	-
5180MHz	Pass	PK	5.184G	114.88	Inf	-Inf	2.71	3	Horizontal	325	2.16	-
5180MHz	Pass	AV	15.53844G	42.71	54.00	-11.29	15.67	3	Vertical	311	1.84	-
5180MHz	Pass	PK	6.906621G	61.49	68.20	-6.71	9.35	3	Vertical	310	1.79	-
5180MHz	Pass	PK	15.55302G	58.19	74.00	-15.81	15.64	3	Vertical	311	1.84	-
5180MHz	Pass	AV	15.54588G	46.49	54.00	-7.51	15.66	3	Horizontal	44	1.80	-
5180MHz	Pass	PK	6.906681G	63.97	68.20	-4.23	9.35	3	Horizontal	250	1.80	-
5180MHz	Pass	PK	15.54432G	62.70	74.00	-11.30	15.66	3	Horizontal	44	1.80	-
5200MHz	Pass	AV	5.149995G	46.77	54.00	-7.23	2.66	3	Vertical	263	2.07	-
5200MHz	Pass	AV	5.2028G	104.84	Inf	-Inf	2.73	3	Vertical	263	2.07	-
5200MHz	Pass	PK	5.1464G	62.32	74.00	-11.68	2.66	3	Vertical	263	2.07	-
5200MHz	Pass	PK	5.2028G	115.25	Inf	-Inf	2.73	3	Vertical	263	2.07	-
5200MHz	Pass	AV	5.1472G	45.69	54.00	-8.31	2.66	3	Horizontal	333	2.13	-
5200MHz	Pass	AV	5.2032G	105.55	Inf	-Inf	2.73	3	Horizontal	333	2.13	-
5200MHz	Pass	PK	5.1476G	61.79	74.00	-12.21	2.66	3	Horizontal	333	2.13	-
5200MHz	Pass	PK	5.2016G	117.81	Inf	-Inf	2.73	3	Horizontal	333	2.13	-
5200MHz	Pass	AV	15.59856G	48.64	54.00	-5.36	15.54	3	Vertical	313	1.81	-
5200MHz	Pass	PK	6.933349G	58.47	68.20	-9.73	9.42	3	Vertical	311	1.84	-
5200MHz	Pass	PK	15.5985G	62.37	74.00	-11.63	15.54	3	Vertical	313	1.81	-
5200MHz	Pass	AV	15.60414G	51.69	54.00	-2.31	15.53	3	Horizontal	33	1.73	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5200MHz	Pass	PK	6.933119G	59.25	68.20	-8.95	9.42	3	Horizontal	234	1.25	-
5200MHz	Pass	PK	15.60414G	62.18	74.00	-11.82	15.53	3	Horizontal	33	1.73	-
5240MHz	Pass	AV	5.1362G	43.85	54.00	-10.15	2.65	3	Vertical	262	2.04	-
5240MHz	Pass	AV	5.243G	104.38	Inf	-Inf	2.79	3	Vertical	262	2.04	-
5240MHz	Pass	AV	5.350005G	42.83	54.00	-11.17	2.93	3	Vertical	262	2.04	-
5240MHz	Pass	PK	5.135G	55.31	74.00	-18.69	2.64	3	Vertical	262	2.04	-
5240MHz	Pass	PK	5.2442G	115.29	Inf	-Inf	2.79	3	Vertical	262	2.04	-
5240MHz	Pass	PK	5.3558G	55.68	74.00	-18.32	2.93	3	Vertical	262	2.04	-
5240MHz	Pass	AV	5.12G	44.03	54.00	-9.97	2.62	3	Horizontal	326	2.21	-
5240MHz	Pass	AV	5.2454G	104.47	Inf	-Inf	2.79	3	Horizontal	326	2.21	-
5240MHz	Pass	AV	5.3516G	42.52	54.00	-11.48	2.93	3	Horizontal	326	2.21	-
5240MHz	Pass	PK	5.1062G	55.38	74.00	-18.62	2.60	3	Horizontal	326	2.21	-
5240MHz	Pass	PK	5.243G	115.45	Inf	-Inf	2.79	3	Horizontal	326	2.21	-
5240MHz	Pass	PK	5.36G	55.15	74.00	-18.85	2.94	3	Horizontal	326	2.21	-
5240MHz	Pass	AV	6.986631G	48.16	54.00	-5.84	9.56	3	Vertical	243	3.17	-
5240MHz	Pass	AV	15.7245G	47.80	54.00	-6.20	15.27	3	Vertical	255	1.73	-
5240MHz	Pass	PK	6.986691G	54.19	74.00	-19.81	9.56	3	Vertical	243	3.17	-
5240MHz	Pass	PK	15.72426G	62.99	74.00	-11.01	15.27	3	Vertical	255	1.73	-
5240MHz	Pass	AV	6.986661G	49.34	54.00	-4.66	9.56	3	Horizontal	237	1.50	-
5240MHz	Pass	AV	15.72774G	51.68	54.00	-2.32	15.27	3	Horizontal	34	1.92	-
5240MHz	Pass	PK	6.986851G	55.02	74.00	-18.98	9.56	3	Horizontal	237	1.50	-
5240MHz	Pass	PK	15.72642G	67.75	74.00	-6.25	15.27	3	Horizontal	34	1.92	-
5745MHz	Pass	AV	5.7426G	102.43	Inf	-Inf	3.57	3	Vertical	261	1.89	-
5745MHz	Pass	PK	5.589G	56.12	68.20	-12.08	3.28	3	Vertical	261	1.89	-
5745MHz	Pass	PK	5.7438G	113.68	Inf	-Inf	3.57	3	Vertical	261	1.89	-
5745MHz	Pass	PK	5.9586G	56.29	68.20	-11.91	3.96	3	Vertical	261	1.89	-
5745MHz	Pass	AV	5.7402G	103.72	Inf	-Inf	3.56	3	Horizontal	342	1.99	-
5745MHz	Pass	PK	5.5002G	56.22	68.20	-11.98	3.12	3	Horizontal	342	1.99	-
5745MHz	Pass	PK	5.7414G	114.16	Inf	-Inf	3.56	3	Horizontal	342	1.99	-
5745MHz	Pass	PK	5.9814G	55.99	68.20	-12.21	4.00	3	Horizontal	342	1.99	-
5745MHz	Pass	AV	17.23596G	53.76	54.00	-0.24	15.56	3	Vertical	105	1.75	-
5745MHz	Pass	PK	17.23638G	68.59	74.00	-5.41	15.57	3	Vertical	105	1.75	-
5745MHz	Pass	AV	17.23596G	50.92	54.00	-3.08	15.56	3	Horizontal	2	2.85	-
5745MHz	Pass	PK	17.23656G	66.28	74.00	-7.72	15.57	3	Horizontal	2	2.85	-
5785MHz	Pass	AV	5.7814G	102.12	Inf	-Inf	3.64	3	Vertical	272	2.10	-
5785MHz	Pass	PK	5.6458G	56.02	68.20	-12.18	3.38	3	Vertical	272	2.10	-
5785MHz	Pass	PK	5.7814G	112.72	Inf	-Inf	3.64	3	Vertical	272	2.10	-
5785MHz	Pass	PK	5.9686G	56.19	68.20	-12.01	3.99	3	Vertical	272	2.10	-
5785MHz	Pass	AV	5.7802G	102.68	Inf	-Inf	3.64	3	Horizontal	342	2.09	-
5785MHz	Pass	PK	5.5798G	55.98	68.20	-12.22	3.27	3	Horizontal	342	2.09	-
5785MHz	Pass	PK	5.7814G	113.56	Inf	-Inf	3.64	3	Horizontal	342	2.09	-
5785MHz	Pass	PK	5.9326G	57.61	68.20	-10.59	3.92	3	Horizontal	342	2.09	-
5785MHz	Pass	AV	17.35842G	53.82	54.00	-0.18	16.36	3	Vertical	106	1.74	-
5785MHz	Pass	PK	17.35812G	67.95	74.00	-6.05	16.36	3	Vertical	106	1.74	-
5785MHz	Pass	AV	17.34822G	52.26	54.00	-1.74	16.29	3	Horizontal	34	1.75	-
5785MHz	Pass	PK	17.34504G	68.09	74.00	-5.91	16.27	3	Horizontal	34	1.75	-
5825MHz	Pass	AV	5.8214G	101.06	Inf	-Inf	3.71	3	Vertical	271	1.91	-
5825MHz	Pass	PK	5.609G	56.65	68.20	-11.55	3.32	3	Vertical	271	1.91	-
5825MHz	Pass	PK	5.8214G	111.23	Inf	-Inf	3.71	3	Vertical	271	1.91	-



RSE TX above 1GHz Result

Appendix E.2

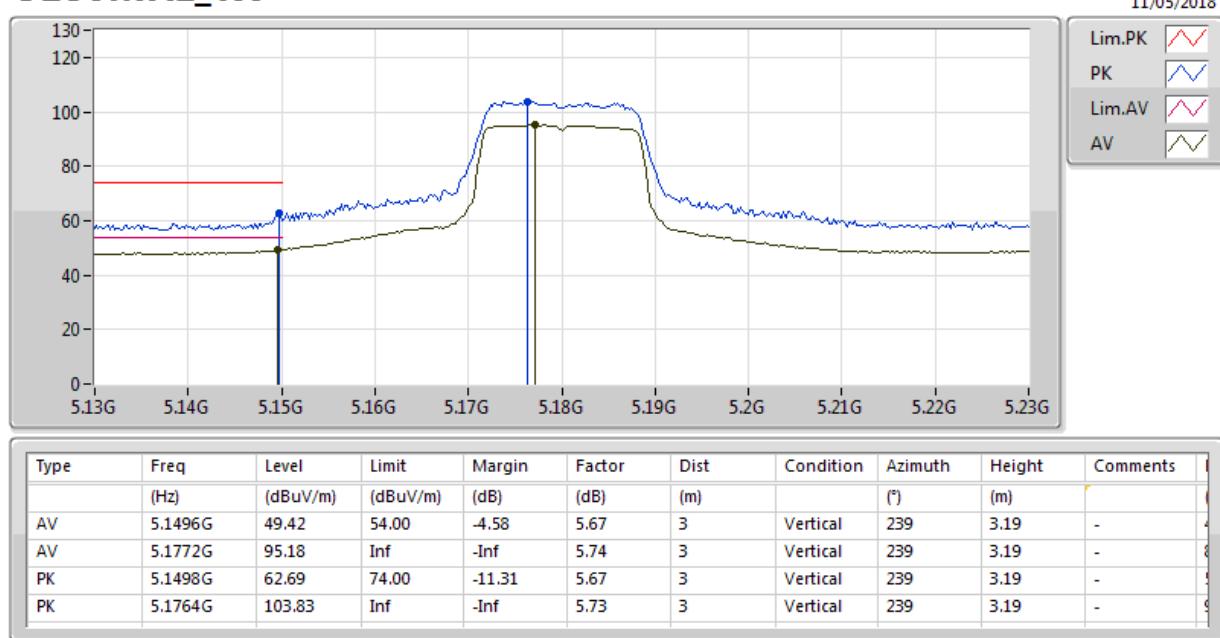
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.9498G	55.96	68.20	-12.24	3.94	3	Vertical	271	1.91	-
5825MHz	Pass	AV	5.819G	102.54	Inf	-Inf	3.71	3	Horizontal	342	1.95	-
5825MHz	Pass	PK	5.6282G	55.84	68.20	-12.36	3.36	3	Horizontal	342	1.95	-
5825MHz	Pass	PK	5.8202G	112.86	Inf	-Inf	3.71	3	Horizontal	342	1.95	-
5825MHz	Pass	PK	5.927G	56.97	68.20	-11.23	3.91	3	Horizontal	342	1.95	-
5825MHz	Pass	AV	17.47872G	53.20	54.00	-0.80	17.14	3	Vertical	103	1.80	-
5825MHz	Pass	PK	17.47698G	68.47	74.00	-5.53	17.13	3	Vertical	103	1.80	-
5825MHz	Pass	AV	17.4795G	53.27	54.00	-0.73	17.15	3	Horizontal	25	2.76	-
5825MHz	Pass	PK	17.46672G	68.25	74.00	-5.75	17.06	3	Horizontal	25	2.76	-
802.11ac VHT40_Nss1_(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.149995G	51.43	54.00	-2.57	2.66	3	Vertical	259	1.87	-
5190MHz	Pass	AV	5.1916G	98.28	Inf	-Inf	2.72	3	Vertical	259	1.87	-
5190MHz	Pass	PK	5.1484G	62.53	74.00	-11.47	2.66	3	Vertical	259	1.87	-
5190MHz	Pass	PK	5.1924G	107.07	Inf	-Inf	2.72	3	Vertical	259	1.87	-
5190MHz	Pass	AV	5.149995G	53.03	54.00	-0.97	2.66	3	Horizontal	320	2.15	-
5190MHz	Pass	AV	5.1944G	99.60	Inf	-Inf	2.72	3	Horizontal	320	2.15	-
5190MHz	Pass	PK	5.1496G	62.71	74.00	-11.29	2.66	3	Horizontal	320	2.15	-
5190MHz	Pass	PK	5.1924G	109.04	Inf	-Inf	2.72	3	Horizontal	320	2.15	-
5190MHz	Pass	AV	15.58038G	41.73	54.00	-12.27	15.58	3	Vertical	51	1.01	-
5190MHz	Pass	PK	6.92002G	60.46	68.20	-7.74	9.38	3	Vertical	310	1.85	-
5190MHz	Pass	PK	15.57096G	53.82	74.00	-20.18	15.60	3	Vertical	51	1.01	-
5190MHz	Pass	AV	15.57522G	41.88	54.00	-12.12	15.59	3	Horizontal	12	1.50	-
5190MHz	Pass	PK	6.91997G	61.27	68.20	-6.93	9.38	3	Horizontal	233	1.28	-
5190MHz	Pass	PK	15.555G	53.16	74.00	-20.84	15.64	3	Horizontal	12	1.50	-
5230MHz	Pass	AV	5.149995G	49.30	54.00	-4.70	2.66	3	Vertical	249	2.04	-
5230MHz	Pass	AV	5.2344G	103.30	Inf	-Inf	2.77	3	Vertical	249	2.04	-
5230MHz	Pass	PK	5.1436G	60.18	74.00	-13.82	2.66	3	Vertical	249	2.04	-
5230MHz	Pass	PK	5.232G	112.08	Inf	-Inf	2.77	3	Vertical	249	2.04	-
5230MHz	Pass	AV	5.149995G	48.42	54.00	-5.58	2.66	3	Horizontal	321	2.12	-
5230MHz	Pass	AV	5.2348G	103.43	Inf	-Inf	2.78	3	Horizontal	321	2.12	-
5230MHz	Pass	PK	5.149995G	60.85	74.00	-13.15	2.66	3	Horizontal	321	2.12	-
5230MHz	Pass	PK	5.236G	112.12	Inf	-Inf	2.78	3	Horizontal	321	2.12	-
5230MHz	Pass	AV	6.973329G	49.73	54.00	-4.27	9.52	3	Vertical	250	2.94	-
5230MHz	Pass	AV	15.69192G	47.20	54.00	-6.80	15.34	3	Vertical	287	1.78	-
5230MHz	Pass	PK	6.973329G	55.10	74.00	-18.90	9.52	3	Vertical	250	2.94	-
5230MHz	Pass	PK	15.67578G	58.99	74.00	-15.01	15.38	3	Vertical	287	1.78	-
5230MHz	Pass	AV	6.973289G	50.90	54.00	-3.10	9.52	3	Horizontal	237	1.50	-
5230MHz	Pass	AV	15.68082G	53.68	54.00	-0.32	15.37	3	Horizontal	38	1.85	-
5230MHz	Pass	PK	6.973429G	55.95	74.00	-18.05	9.52	3	Horizontal	237	1.50	-
5230MHz	Pass	PK	15.69258G	65.74	74.00	-8.26	15.34	3	Horizontal	38	1.85	-
5755MHz	Pass	AV	5.7502G	101.12	Inf	-Inf	6.76	3	Vertical	286	1.79	-
5755MHz	Pass	PK	5.5858G	60.13	68.20	-8.07	6.59	3	Vertical	286	1.79	-
5755MHz	Pass	PK	5.9494G	59.83	68.20	-8.37	6.96	3	Vertical	286	1.79	-
5755MHz	Pass	PK	5.7526G	108.62	Inf	-Inf	6.76	3	Vertical	286	1.79	-
5755MHz	Pass	AV	5.7478G	102.12	Inf	-Inf	6.76	3	Horizontal	358	1.71	-
5755MHz	Pass	PK	5.5774G	60.65	68.20	-7.55	6.59	3	Horizontal	358	1.71	-
5755MHz	Pass	PK	5.9734G	60.06	68.20	-8.14	6.98	3	Horizontal	358	1.71	-
5755MHz	Pass	PK	5.7478G	109.72	Inf	-Inf	6.76	3	Horizontal	358	1.71	-
5755MHz	Pass	AV	17.2662G	53.31	54.00	-0.69	19.34	3	Vertical	70	1.01	-



RSE TX above 1GHz Result

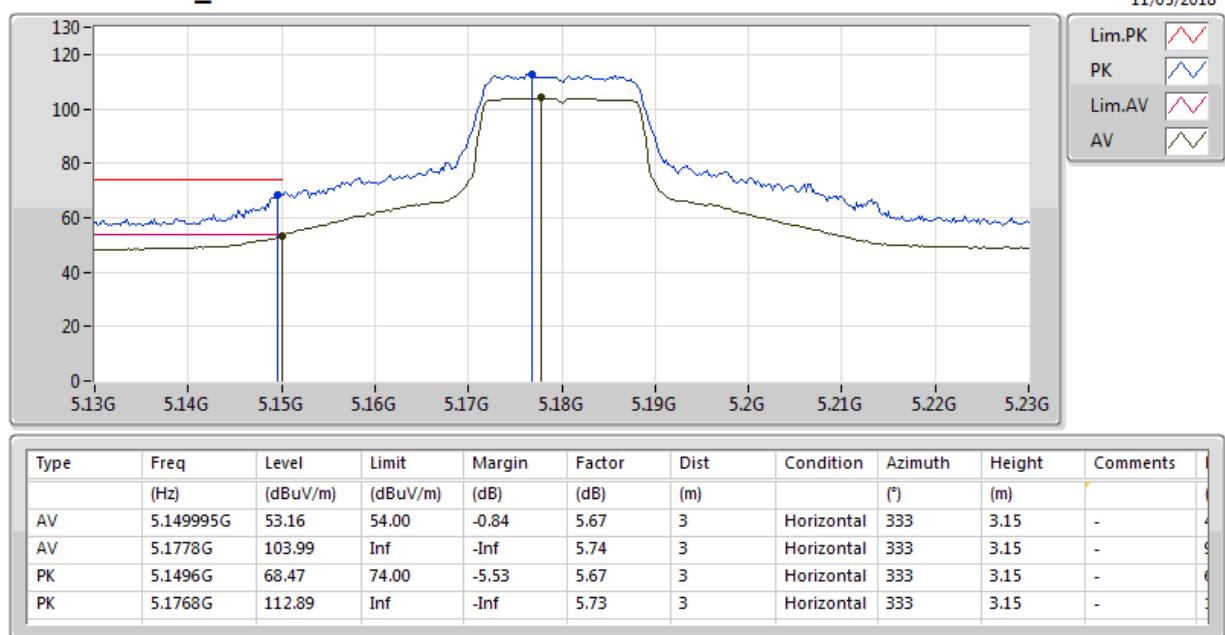
Appendix E.2

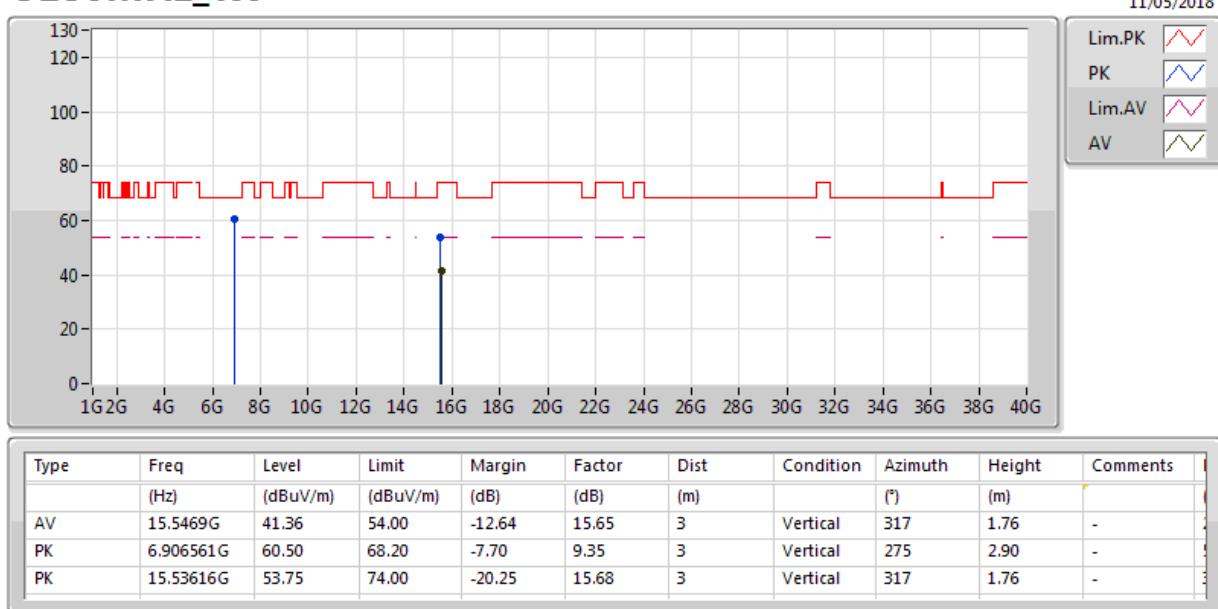
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5755MHz	Pass	PK	17.2626G	65.08	74.00	-8.92	19.33	3	Vertical	70	1.01	-
5755MHz	Pass	AV	17.26061G	53.50	54.00	-0.50	19.32	3	Horizontal	48	1.01	-
5755MHz	Pass	PK	17.25821G	65.70	74.00	-8.30	19.32	3	Horizontal	48	1.01	-
5795MHz	Pass	AV	5.7914G	99.88	Inf	-Inf	6.80	3	Vertical	292	1.79	-
5795MHz	Pass	PK	5.5826G	59.88	68.20	-8.32	6.60	3	Vertical	292	1.79	-
5795MHz	Pass	PK	5.9414G	59.71	68.20	-8.49	6.95	3	Vertical	292	1.79	-
5795MHz	Pass	PK	5.8106G	107.26	Inf	-Inf	6.82	3	Vertical	292	1.79	-
5795MHz	Pass	AV	5.7878G	101.09	Inf	-Inf	6.80	3	Horizontal	349	1.50	-
5795MHz	Pass	PK	5.5694G	60.03	68.20	-8.17	6.59	3	Horizontal	349	1.50	-
5795MHz	Pass	PK	5.9318G	59.78	68.20	-8.42	6.94	3	Horizontal	349	1.50	-
5795MHz	Pass	PK	5.7878G	108.74	Inf	-Inf	6.80	3	Horizontal	349	1.50	-
5795MHz	Pass	AV	17.387G	53.35	54.00	-0.65	19.77	3	Vertical	64	1.77	-
5795MHz	Pass	PK	17.383G	66.07	74.00	-7.93	19.75	3	Vertical	64	1.77	-
5795MHz	Pass	AV	17.3842G	53.33	54.00	-0.67	19.76	3	Horizontal	55	1.01	-
5795MHz	Pass	PK	17.3836G	65.19	74.00	-8.81	19.76	3	Horizontal	55	1.01	-
802.11ac VHT80_Nss1_(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149995G	52.54	54.00	-1.46	5.67	3	Vertical	272	2.03	-
5210MHz	Pass	AV	5.361G	49.30	54.00	-4.70	6.18	3	Vertical	272	2.03	-
5210MHz	Pass	AV	5.234G	94.78	Inf	-Inf	5.87	3	Vertical	272	2.03	-
5210MHz	Pass	PK	5.149995G	63.22	74.00	-10.78	5.67	3	Vertical	272	2.03	-
5210MHz	Pass	PK	5.396G	60.44	74.00	-13.56	6.28	3	Vertical	272	2.03	-
5210MHz	Pass	PK	5.233G	103.08	Inf	-Inf	5.87	3	Vertical	272	2.03	-
5210MHz	Pass	AV	5.138G	53.73	54.00	-0.27	5.65	3	Horizontal	344	1.72	-
5210MHz	Pass	AV	5.369G	49.35	54.00	-4.65	6.20	3	Horizontal	344	1.72	-
5210MHz	Pass	AV	5.214G	94.10	Inf	-Inf	5.82	3	Horizontal	344	1.72	-
5210MHz	Pass	PK	5.139G	64.30	74.00	-9.70	5.65	3	Horizontal	344	1.72	-
5210MHz	Pass	PK	5.376G	59.66	74.00	-14.34	6.22	3	Horizontal	344	1.72	-
5210MHz	Pass	PK	5.217G	102.06	Inf	-Inf	5.83	3	Horizontal	344	1.72	-
5210MHz	Pass	AV	6.946651G	50.31	54.00	-3.69	9.45	3	Vertical	18	3.14	-
5210MHz	Pass	AV	10.38567G	44.65	54.00	-9.35	12.74	3	Vertical	285	1.50	-
5210MHz	Pass	PK	6.946491G	56.47	74.00	-17.53	9.45	3	Vertical	18	3.14	-
5210MHz	Pass	PK	10.38467G	56.77	74.00	-17.23	12.73	3	Vertical	285	1.50	-
5210MHz	Pass	AV	6.946641G	52.32	54.00	-1.68	9.45	3	Horizontal	237	1.43	-
5210MHz	Pass	AV	10.38966G	44.57	54.00	-9.43	12.74	3	Horizontal	122	1.50	-
5210MHz	Pass	PK	6.946711G	57.33	74.00	-16.67	9.45	3	Horizontal	237	1.43	-
5210MHz	Pass	PK	10.38507G	56.25	74.00	-17.75	12.73	3	Horizontal	122	1.50	-
5775MHz	Pass	AV	5.7906G	97.81	Inf	-Inf	6.80	3	Vertical	291	1.88	-
5775MHz	Pass	PK	5.6334G	62.21	68.20	-5.99	6.65	3	Vertical	291	1.88	-
5775MHz	Pass	PK	5.9334G	60.55	68.20	-7.65	6.94	3	Vertical	291	1.88	-
5775MHz	Pass	PK	5.793G	106.09	Inf	-Inf	6.80	3	Vertical	291	1.88	-
5775MHz	Pass	AV	5.787G	99.05	Inf	-Inf	6.80	3	Horizontal	350	1.50	-
5775MHz	Pass	PK	5.649G	63.58	68.20	-4.62	6.66	3	Horizontal	350	1.50	-
5775MHz	Pass	PK	5.9286G	63.69	68.20	-4.51	6.93	3	Horizontal	350	1.50	-
5775MHz	Pass	PK	5.787G	106.80	Inf	-Inf	6.80	3	Horizontal	350	1.50	-
5775MHz	Pass	AV	17.32241G	53.21	54.00	-0.79	19.54	3	Vertical	67	1.75	-
5775MHz	Pass	PK	17.327G	65.98	74.00	-8.02	19.56	3	Vertical	67	1.75	-
5775MHz	Pass	AV	17.32081G	52.93	54.00	-1.07	19.54	3	Horizontal	58	1.01	-
5775MHz	Pass	PK	17.32061G	65.27	74.00	-8.73	19.54	3	Horizontal	58	1.01	-

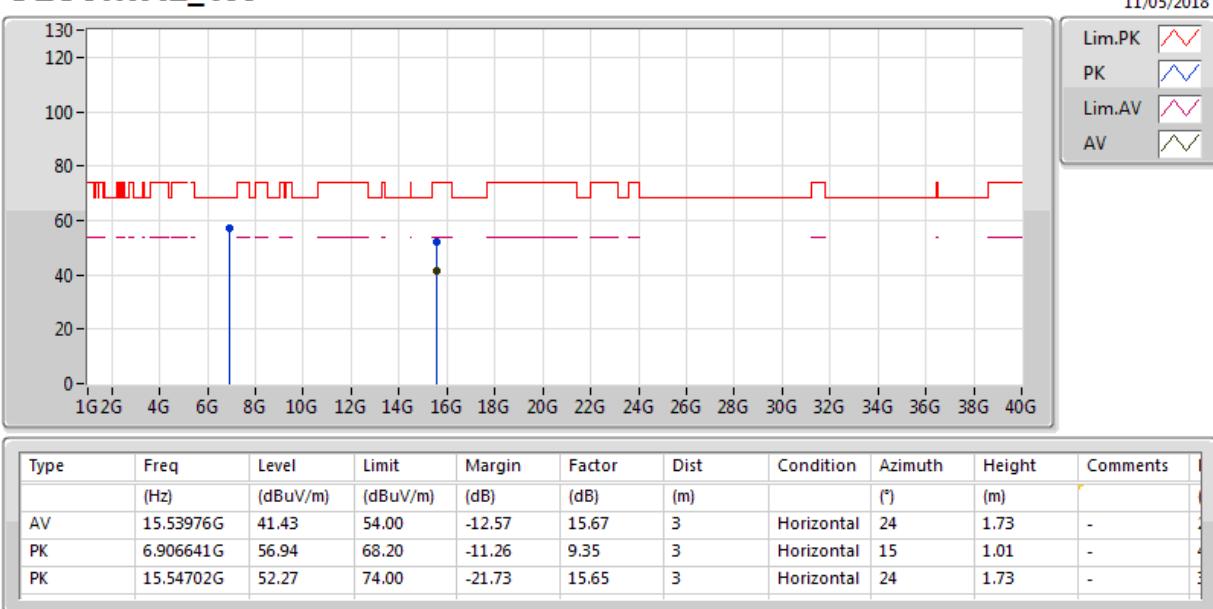
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802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

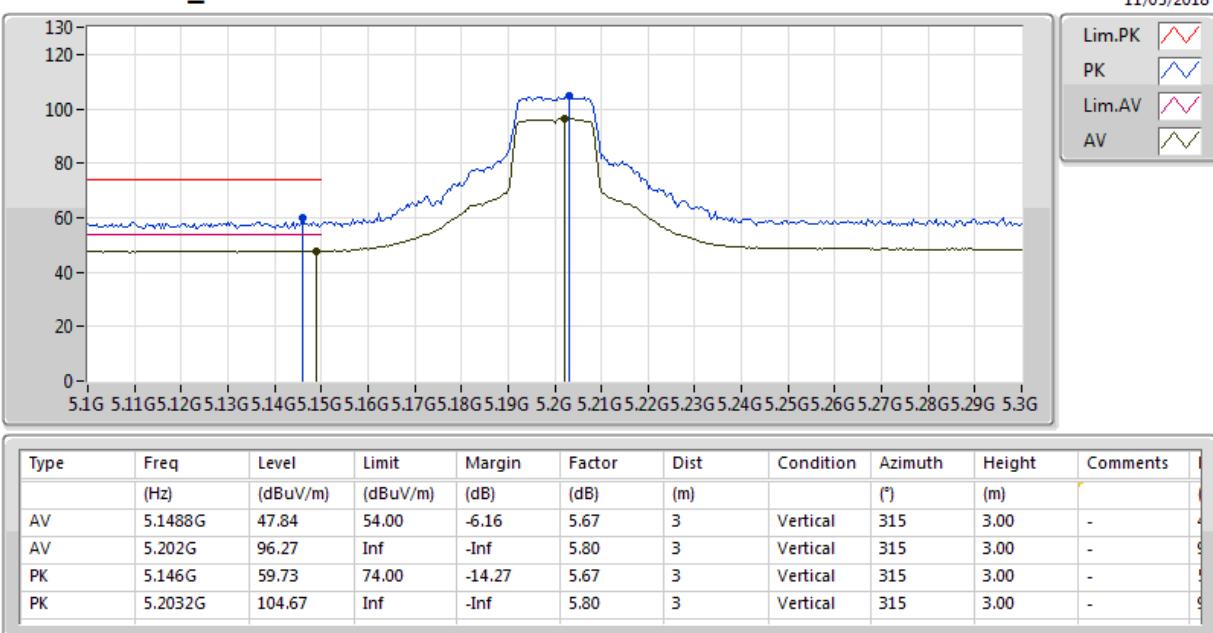


**802.11a_Nss1,(6Mbps)_1TX****5180MHz_TX**

**802.11a_Nss1,(6Mbps)_1TX****5180MHz_TX**

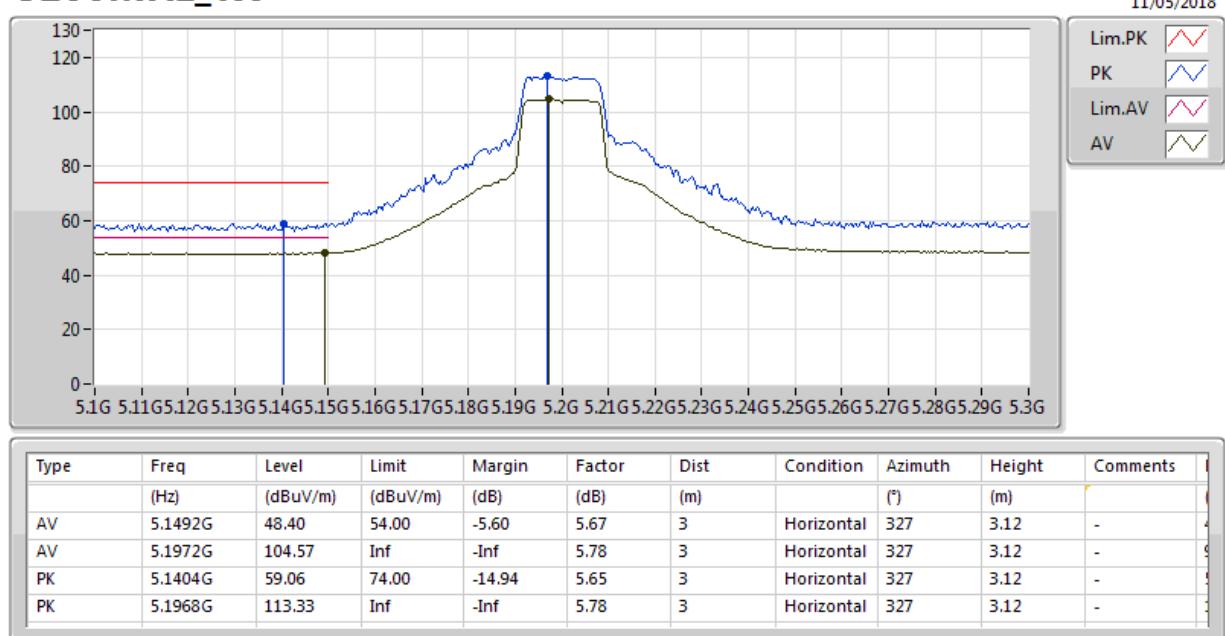
802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX



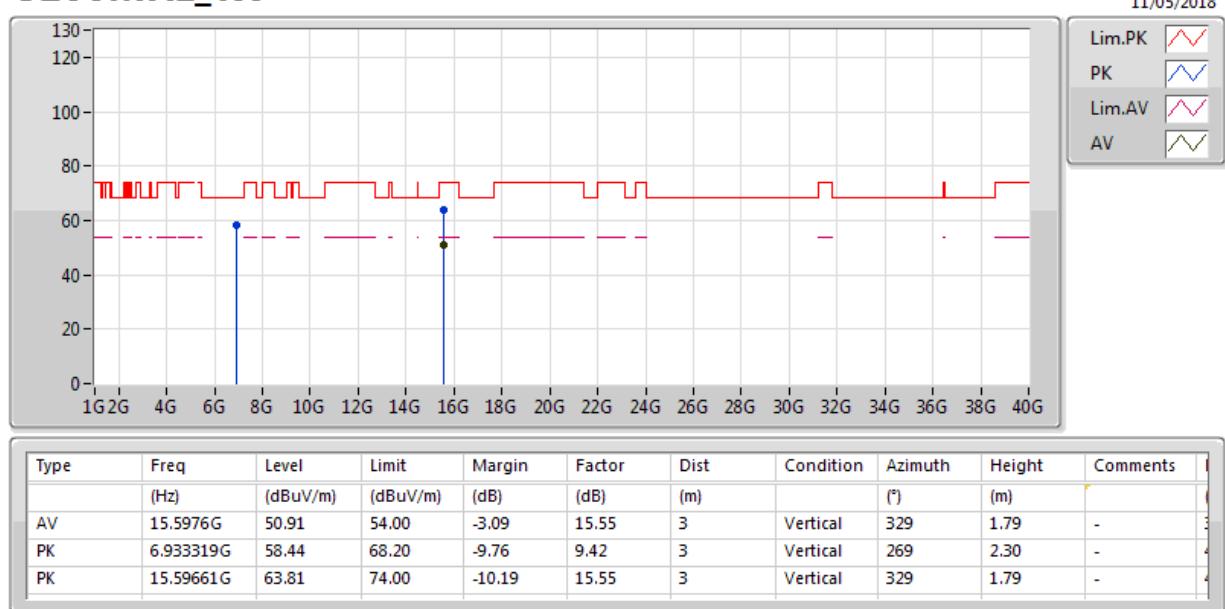
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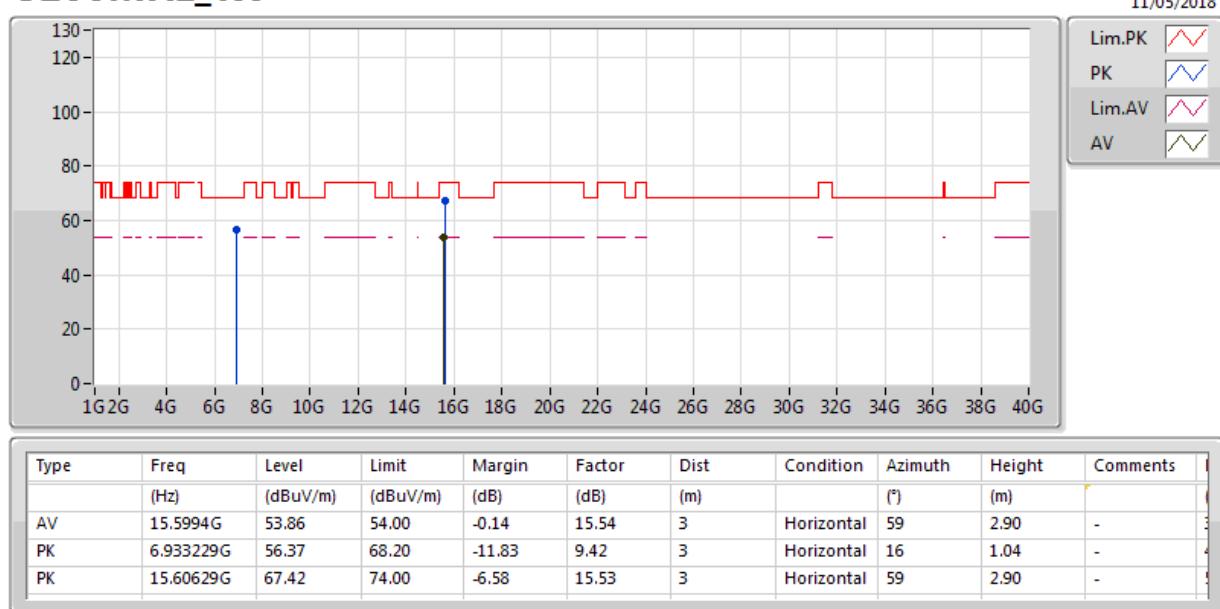
5200MHz_TX



802.11a_Nss1,(6Mbps)_1TX

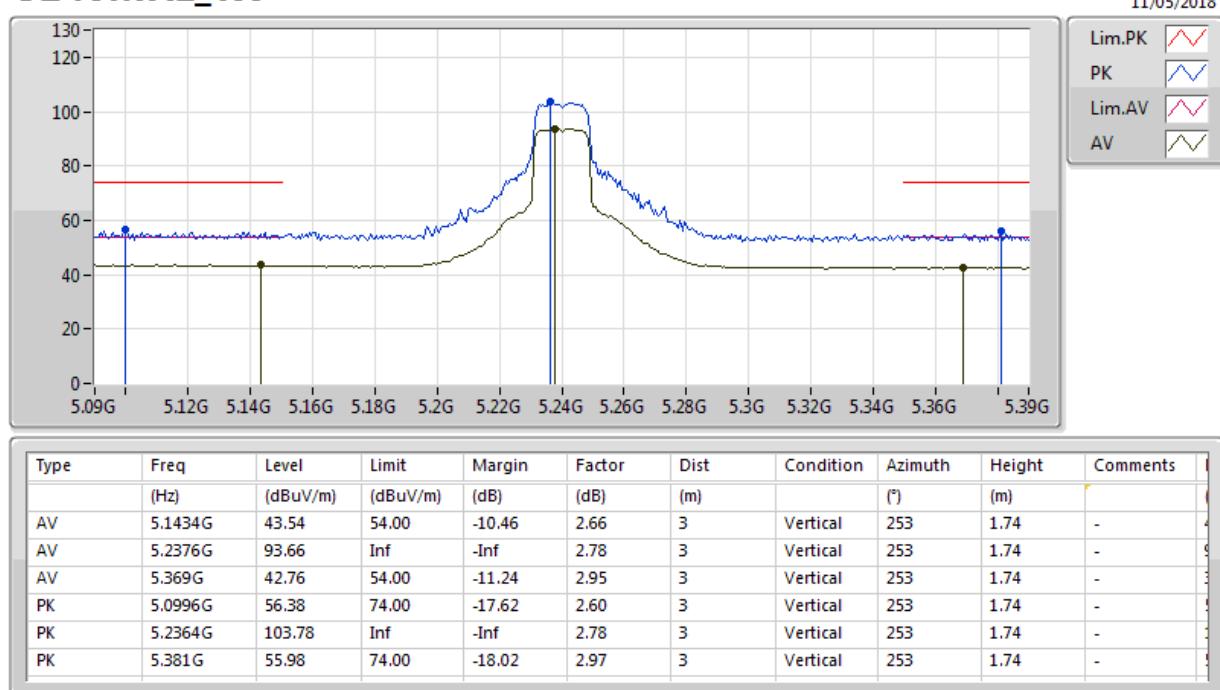
5200MHz_TX



**802.11a_Nss1,(6Mbps)_1TX****5200MHz_TX**

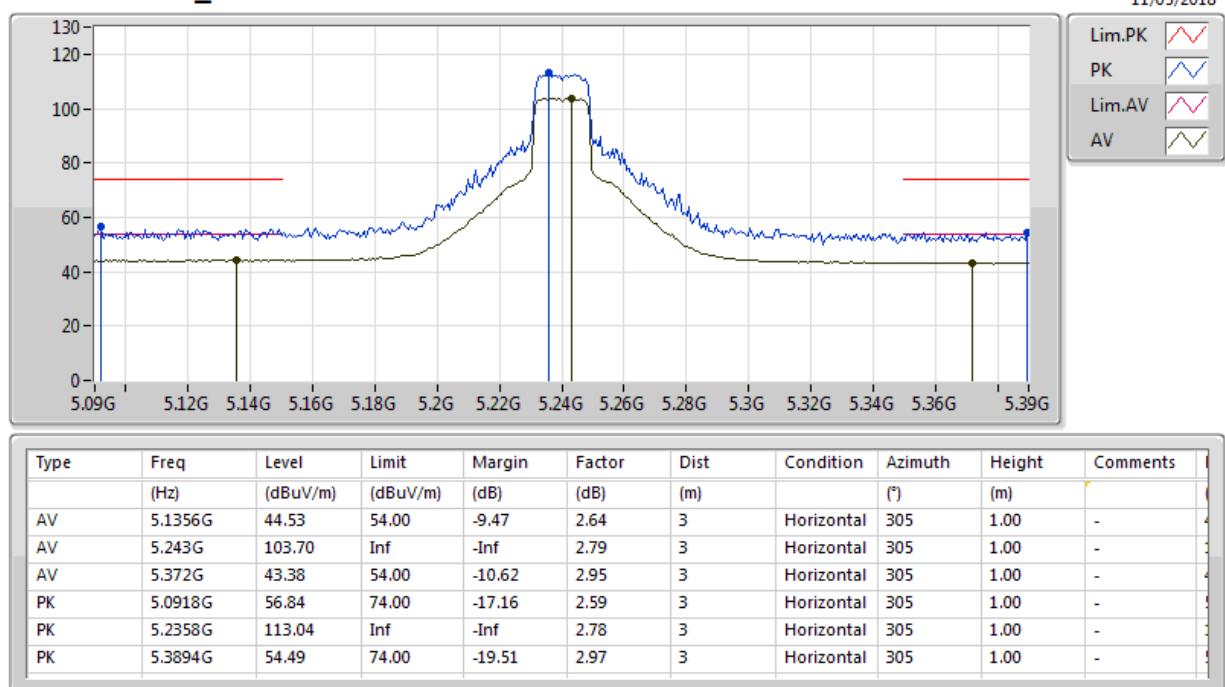
802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

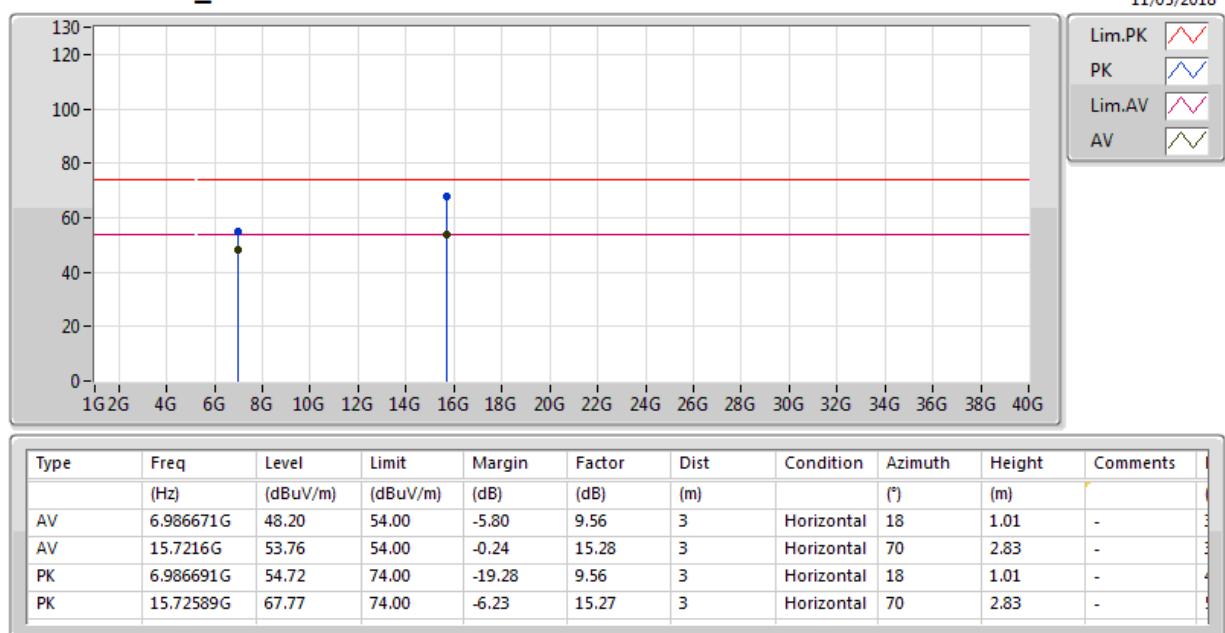


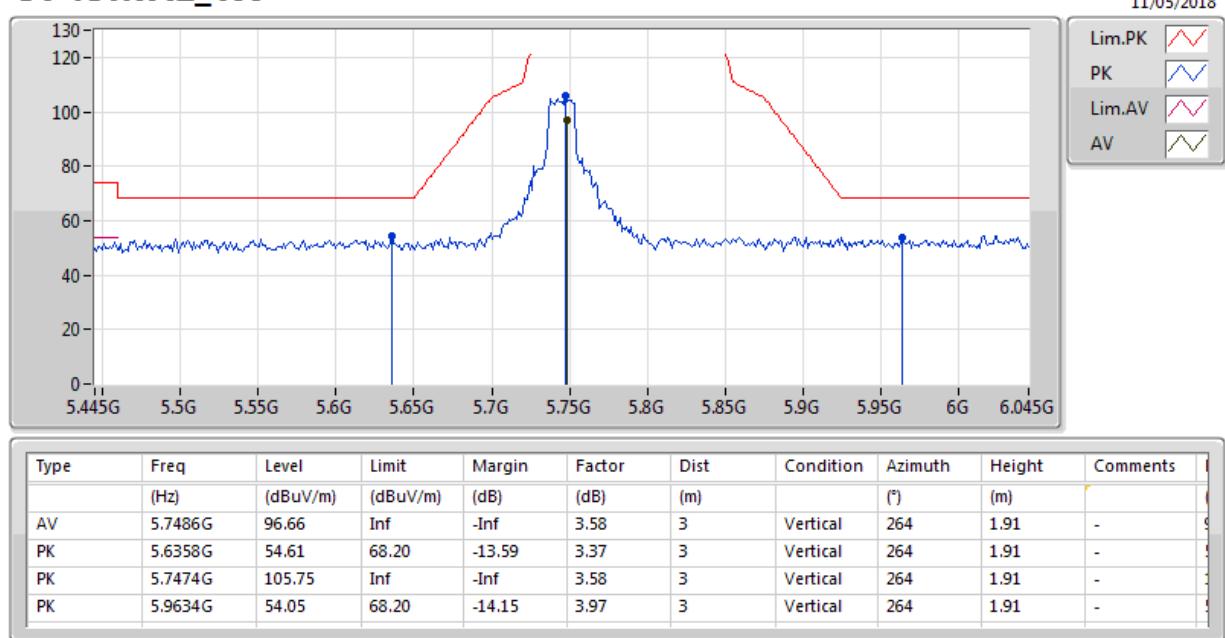
802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX



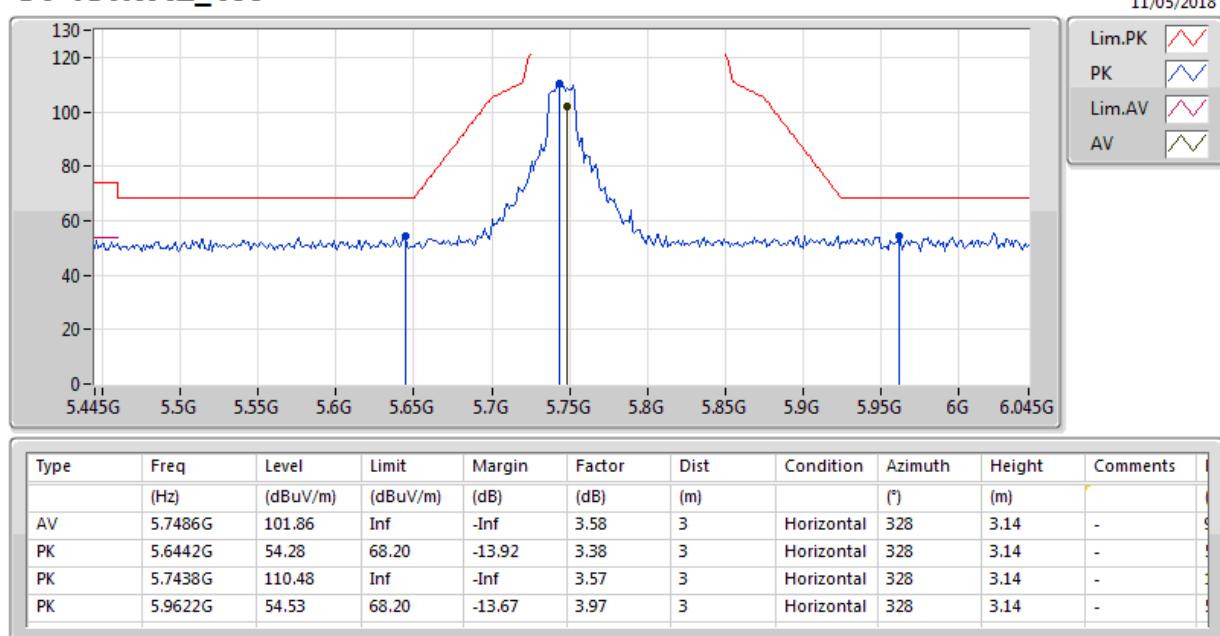
**802.11a_Nss1,(6Mbps)_1TX****5240MHz_TX**

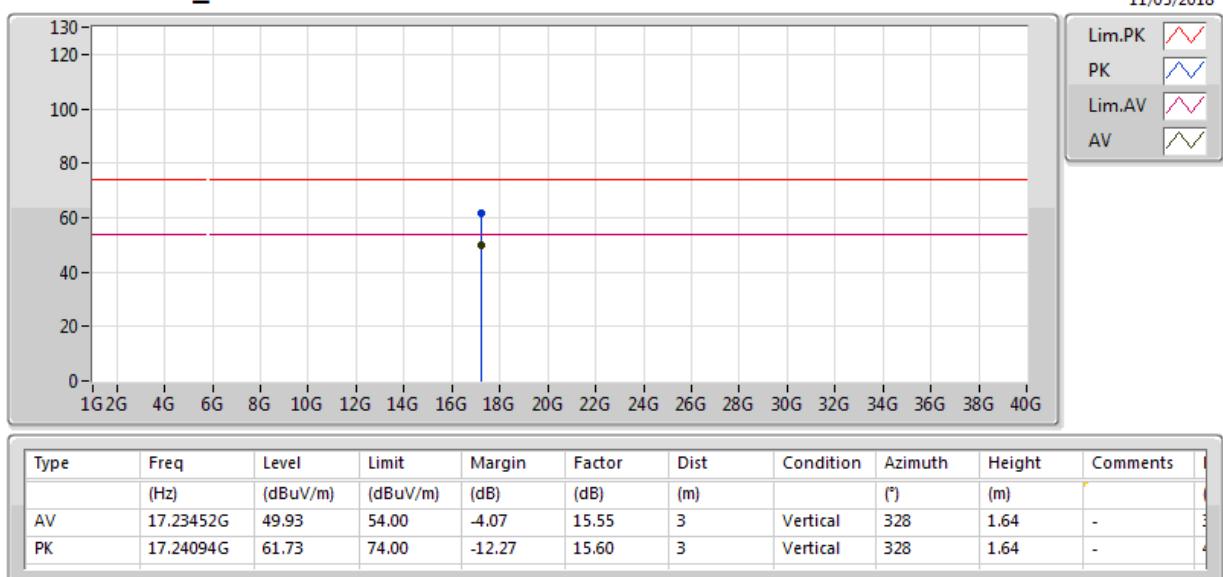
**802.11a_Nss1,(6Mbps)_1TX****5240MHz_TX**

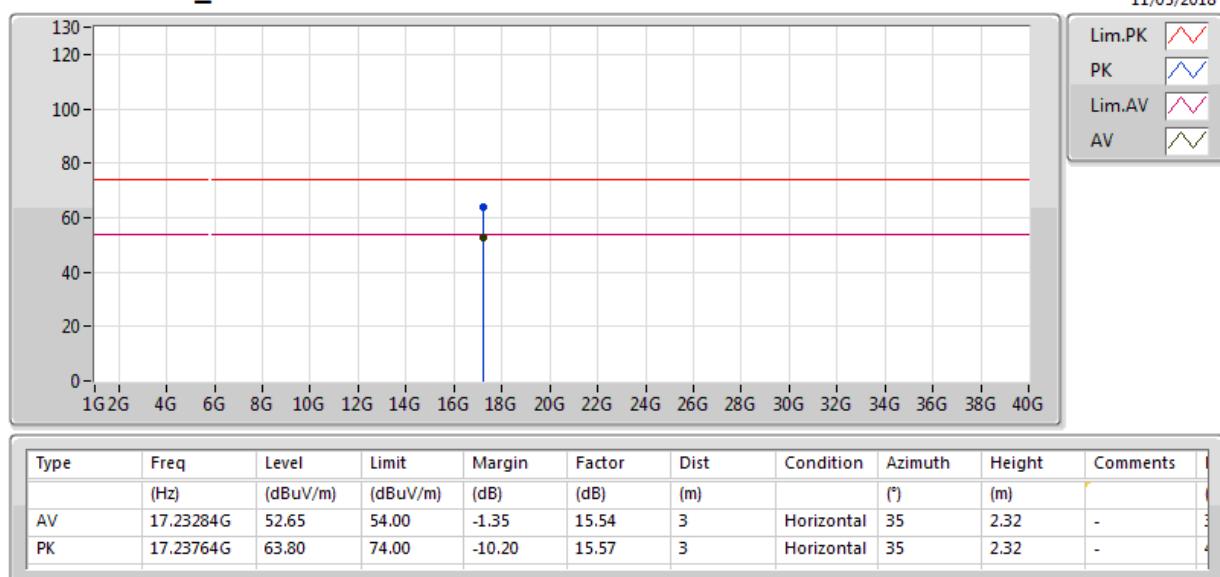
802.11a_Nss1,(6Mbps)_1TX
5745MHz_TX


802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

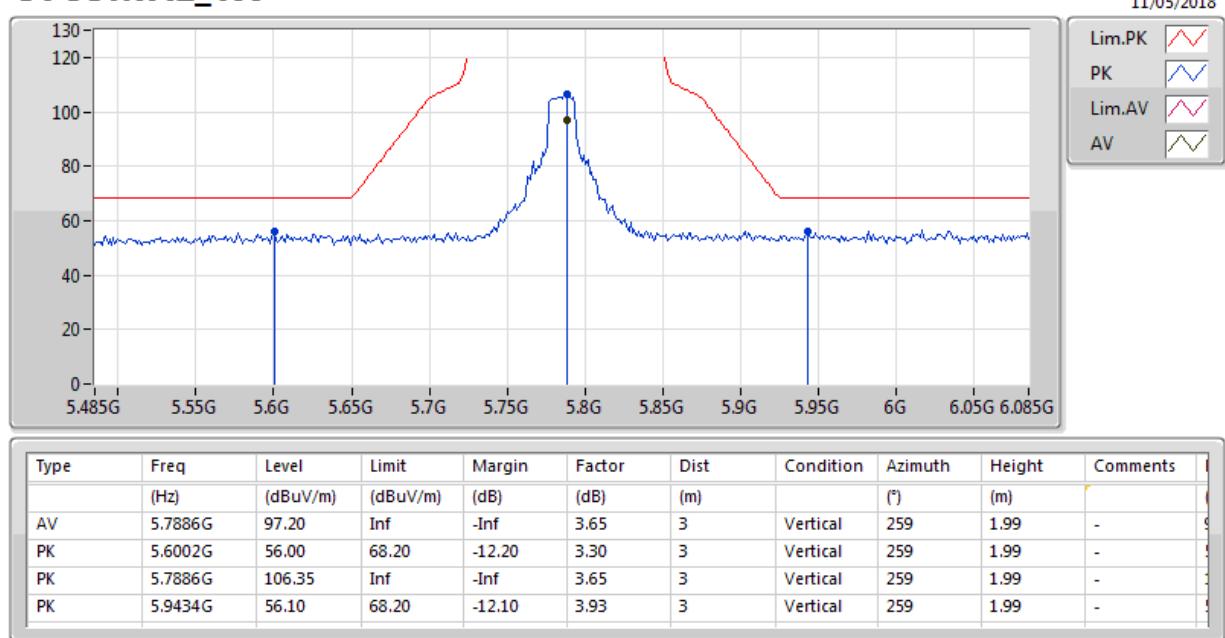


**802.11a_Nss1,(6Mbps)_1TX****5745MHz_TX**

**802.11a_Nss1,(6Mbps)_1TX****5745MHz_TX**

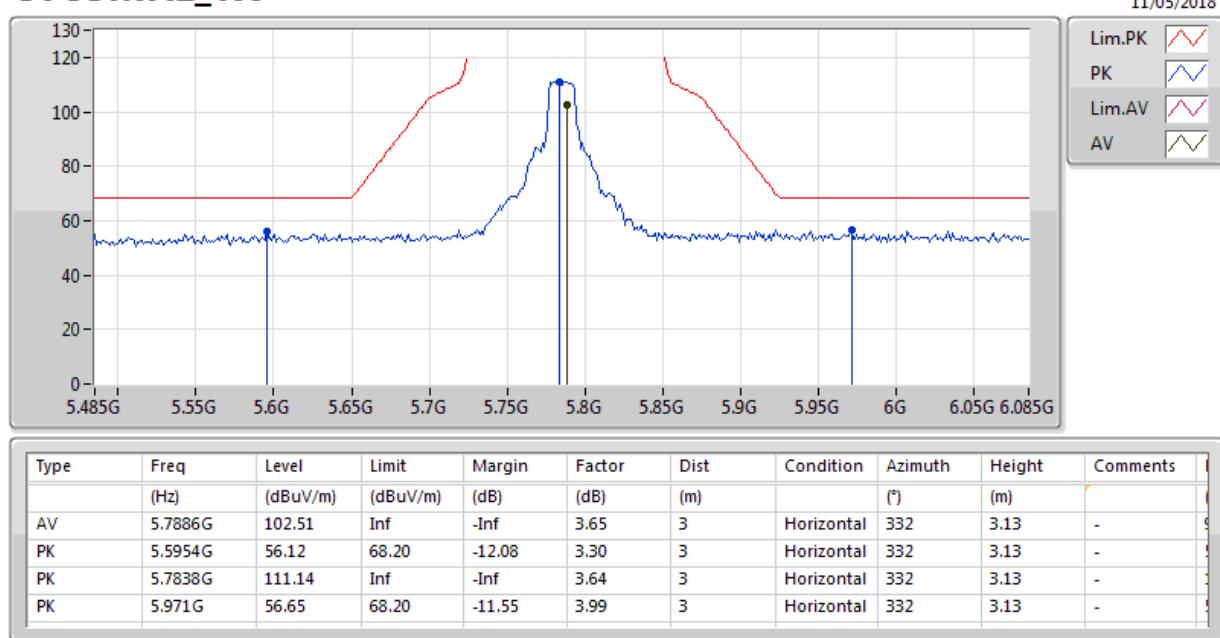
802.11a_Nss1,(6Mbps)_1TX

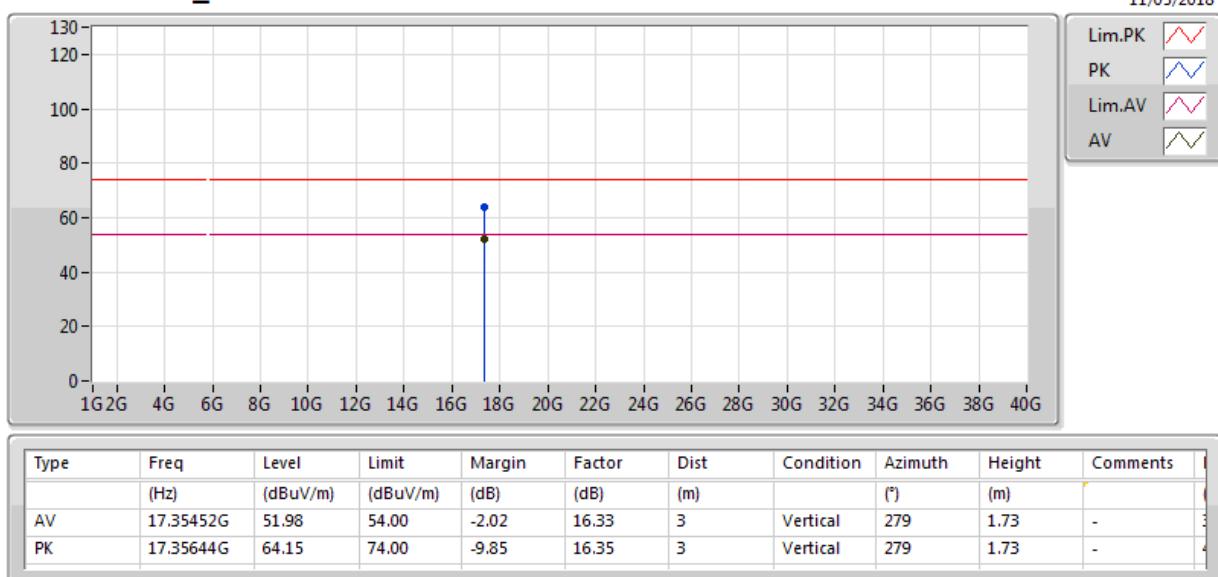
5785MHz_TX

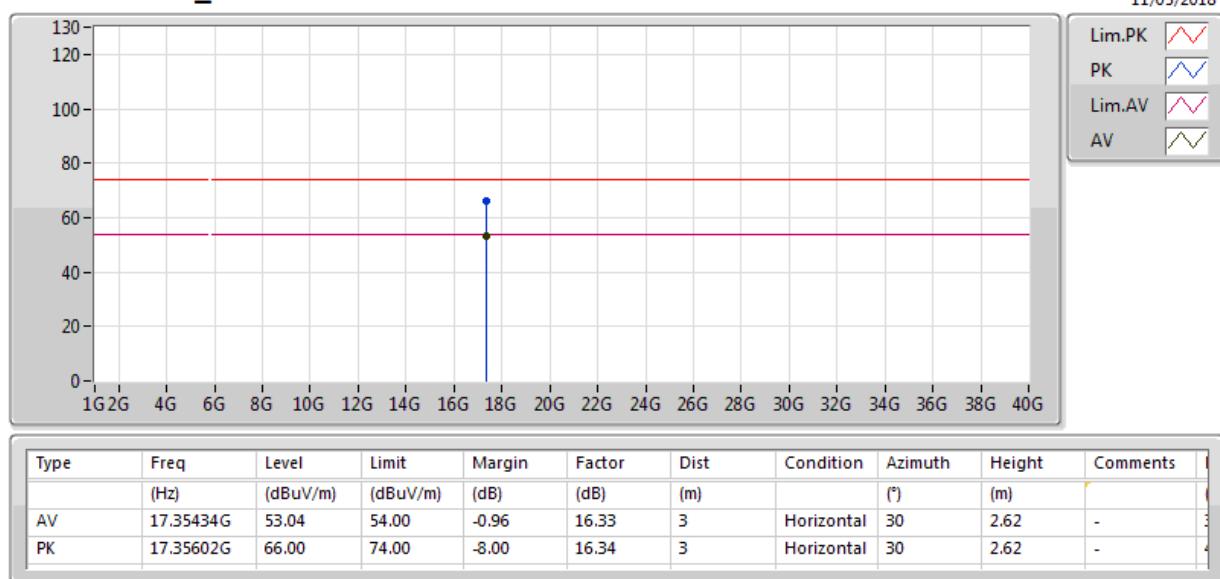


802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

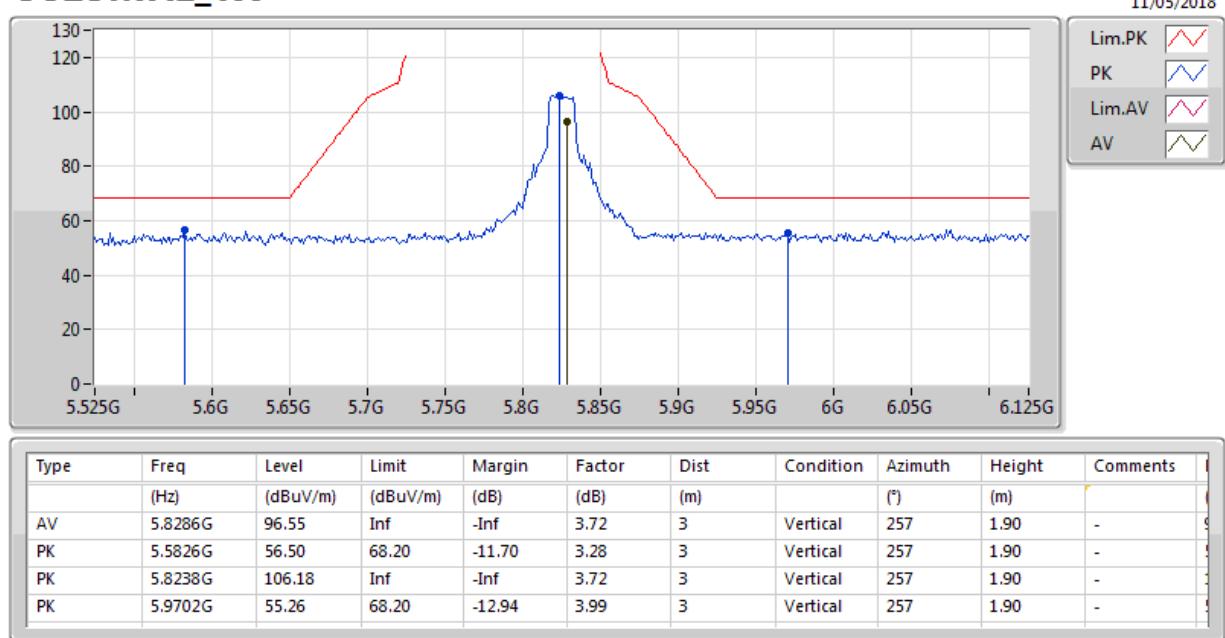


**802.11a_Nss1,(6Mbps)_1TX****5785MHz_TX**

**802.11a_Nss1,(6Mbps)_1TX****5785MHz_TX**

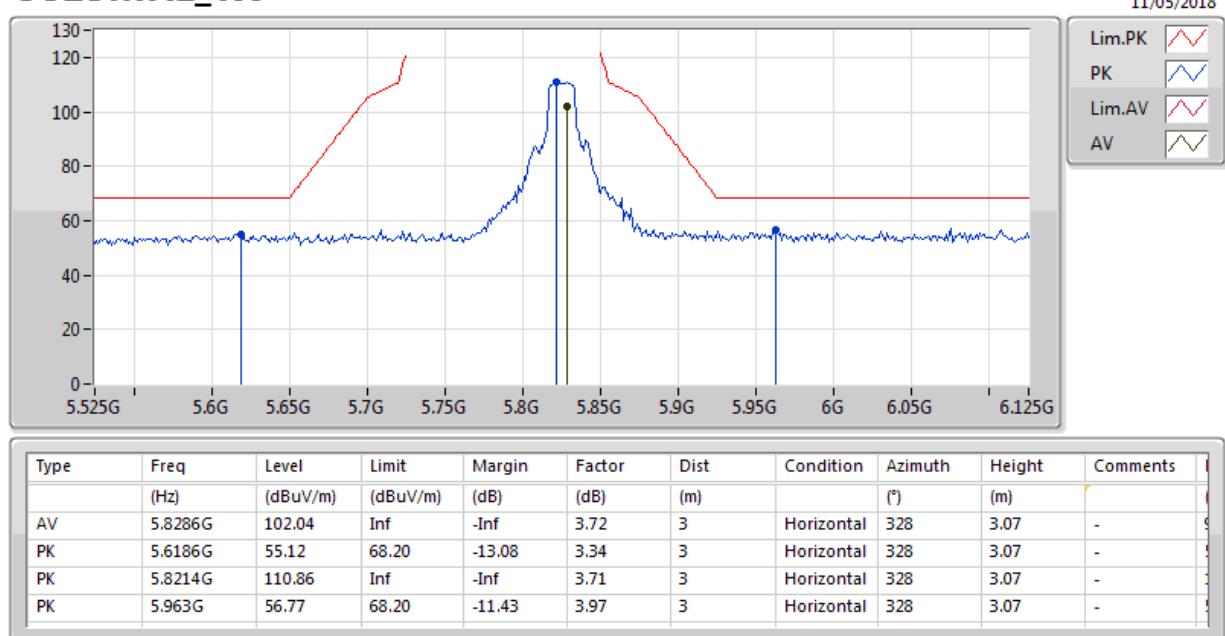
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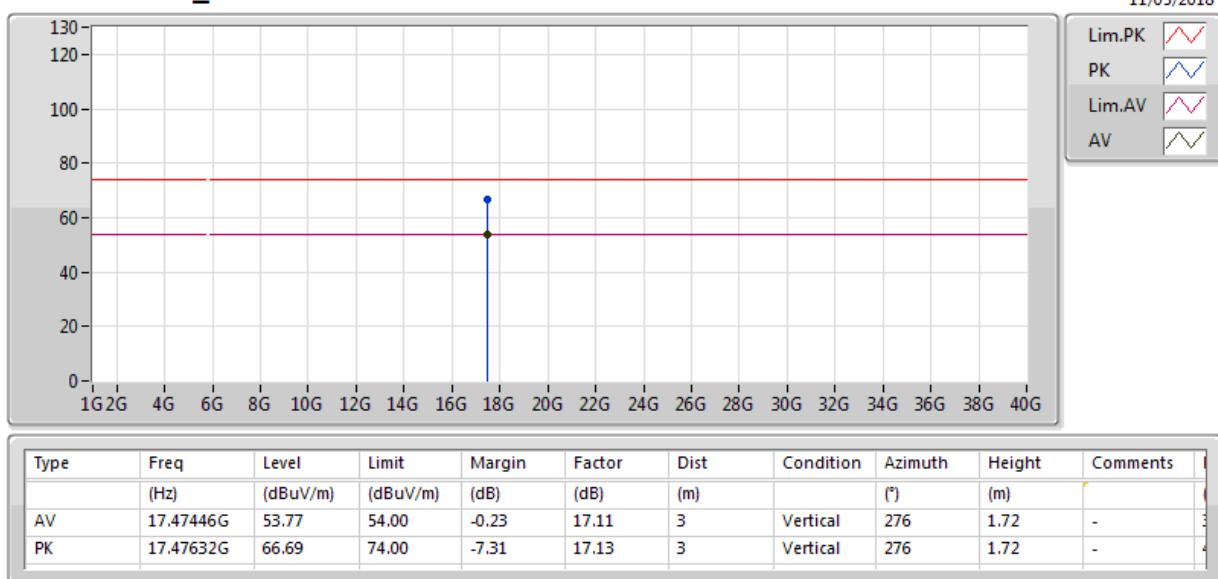
5825MHz_TX

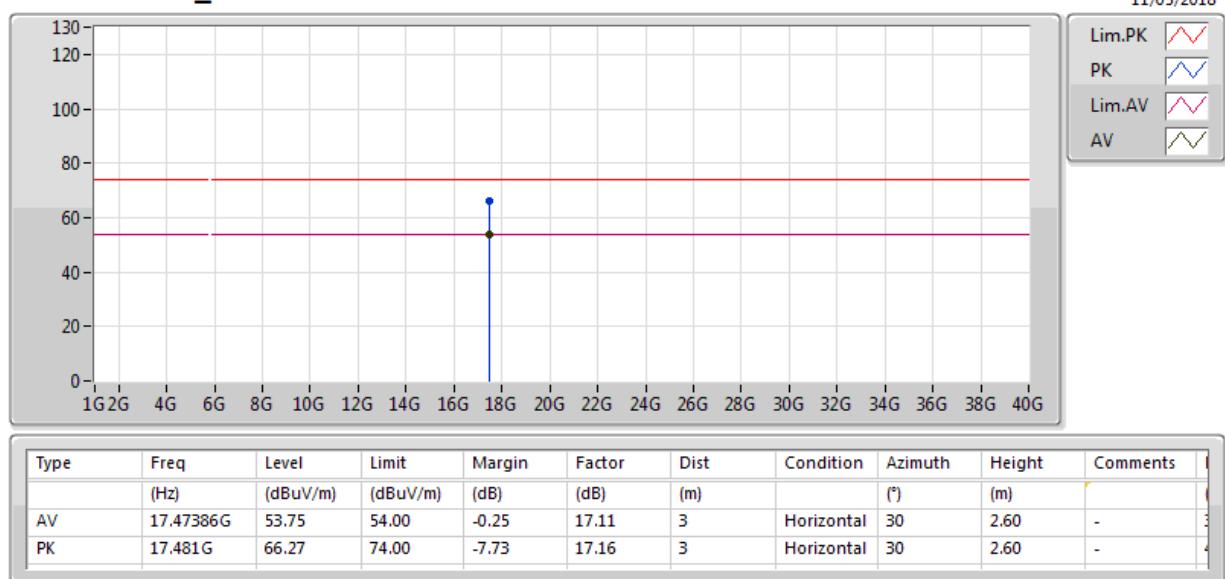


802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

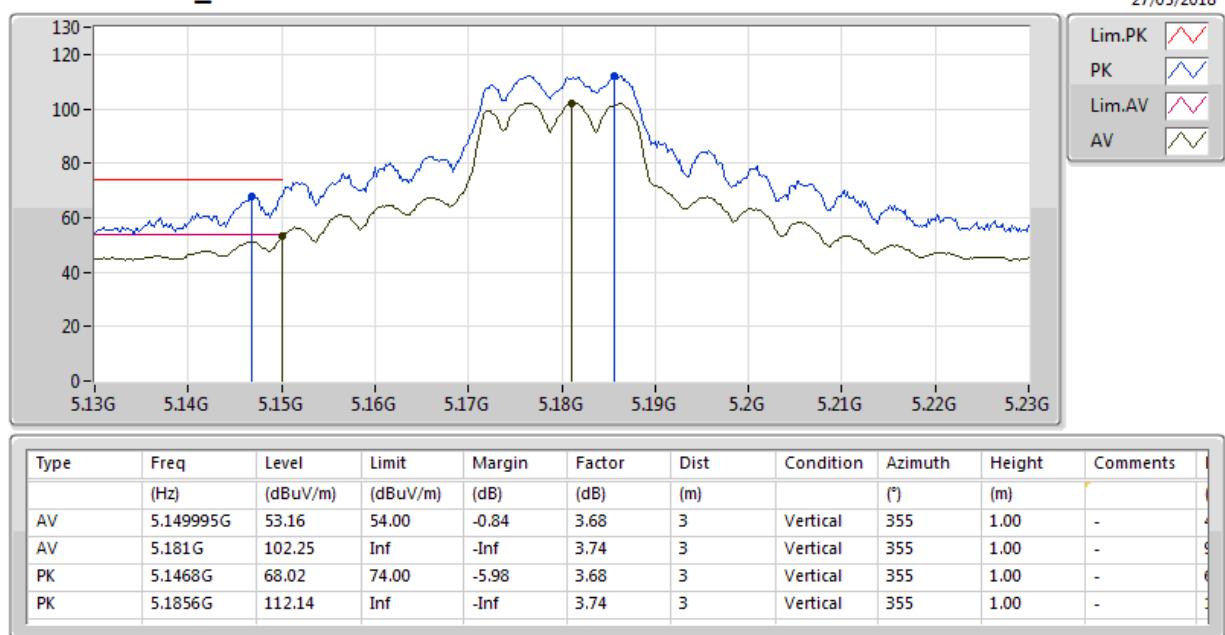


**802.11a_Nss1,(6Mbps)_1TX****5825MHz_TX**

**802.11a_Nss1,(6Mbps)_1TX****5825MHz_TX**

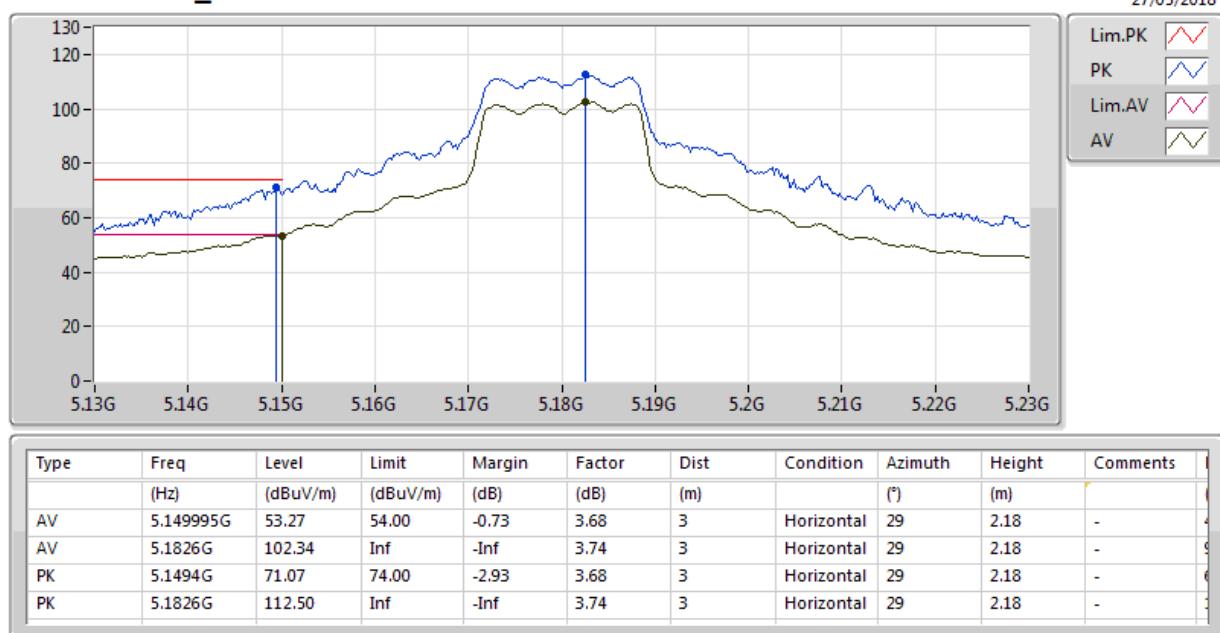
802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



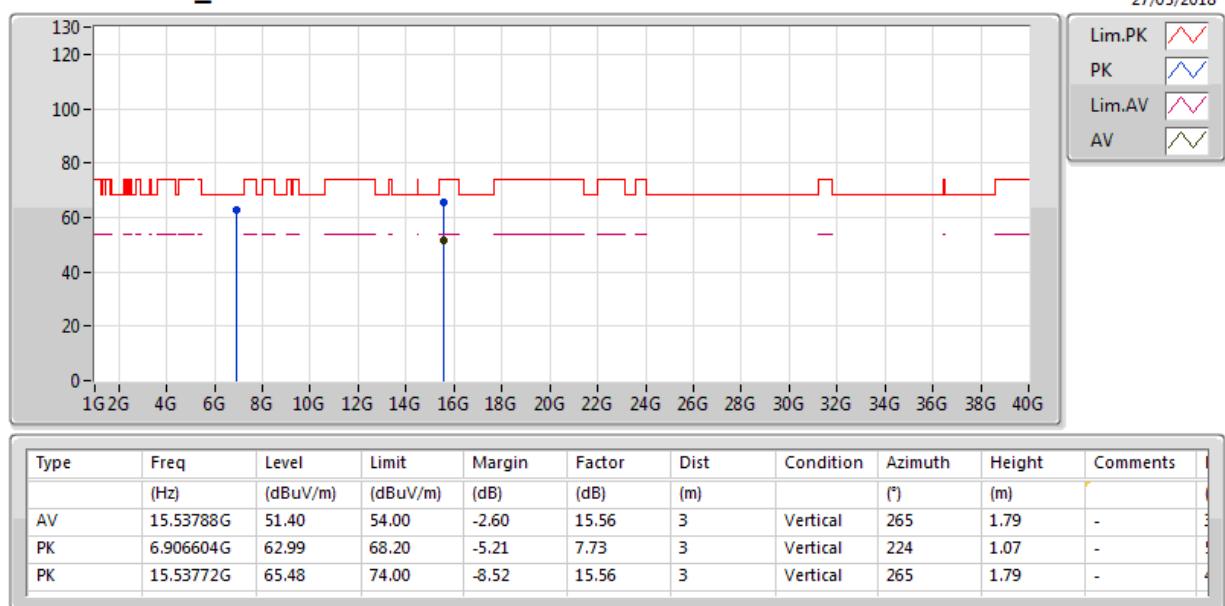
802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



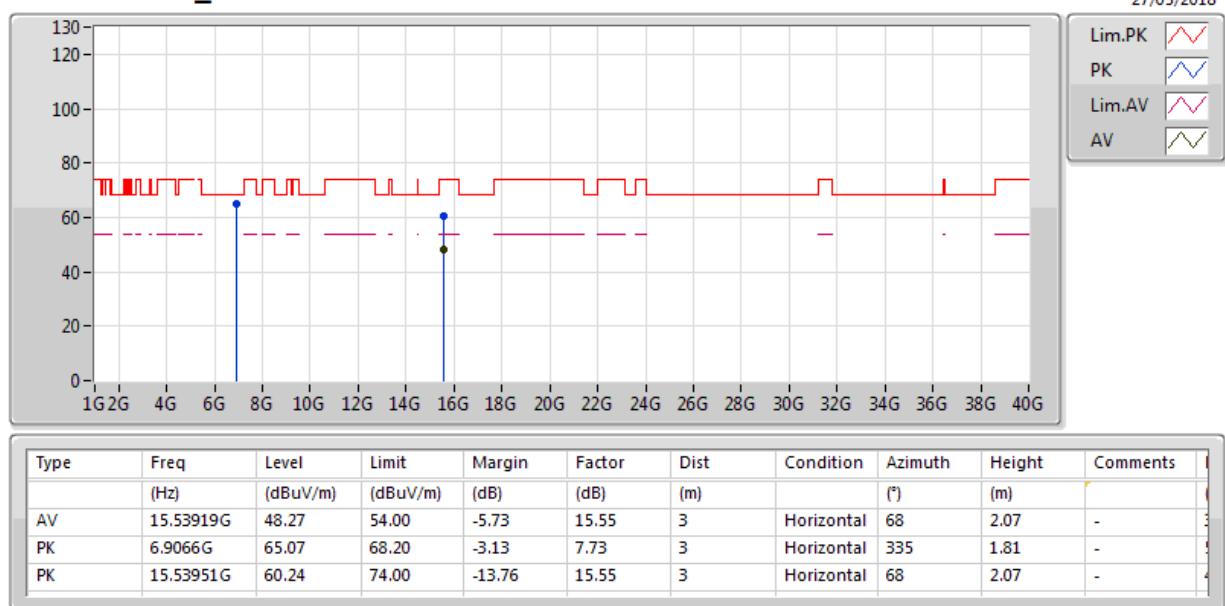
802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



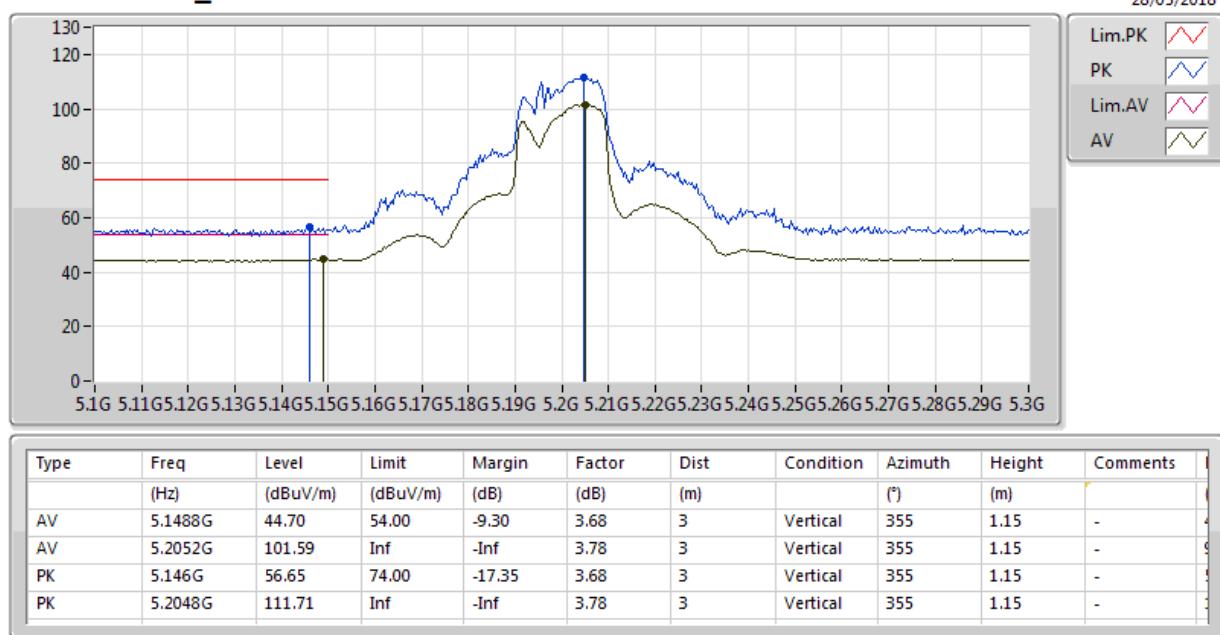
802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



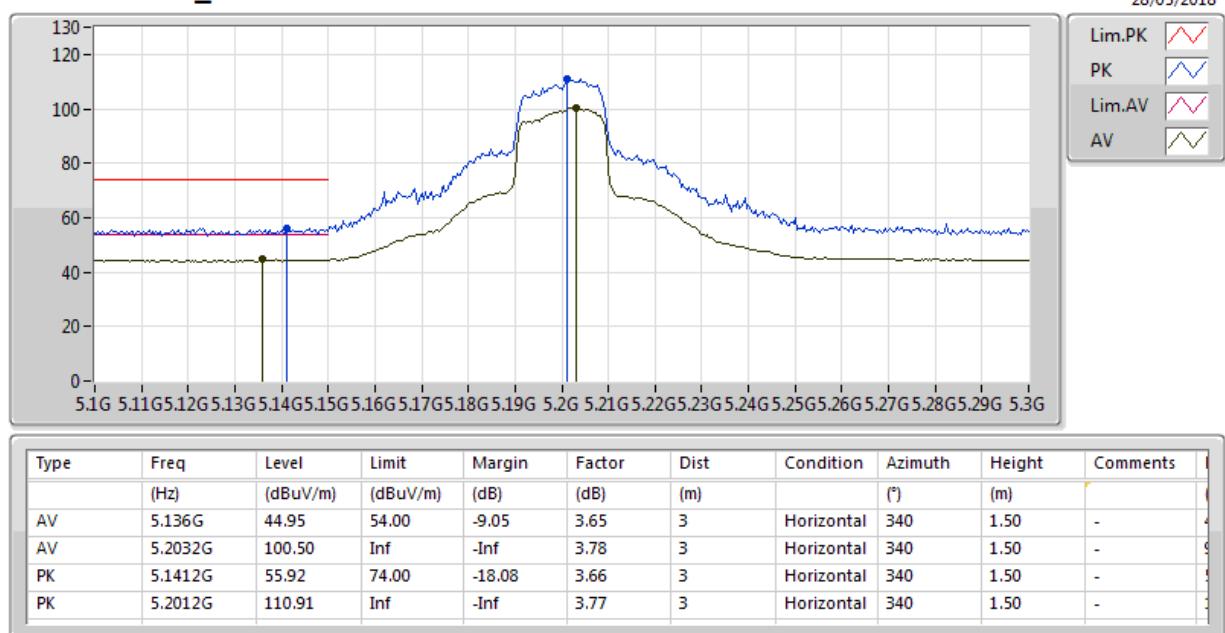
802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX



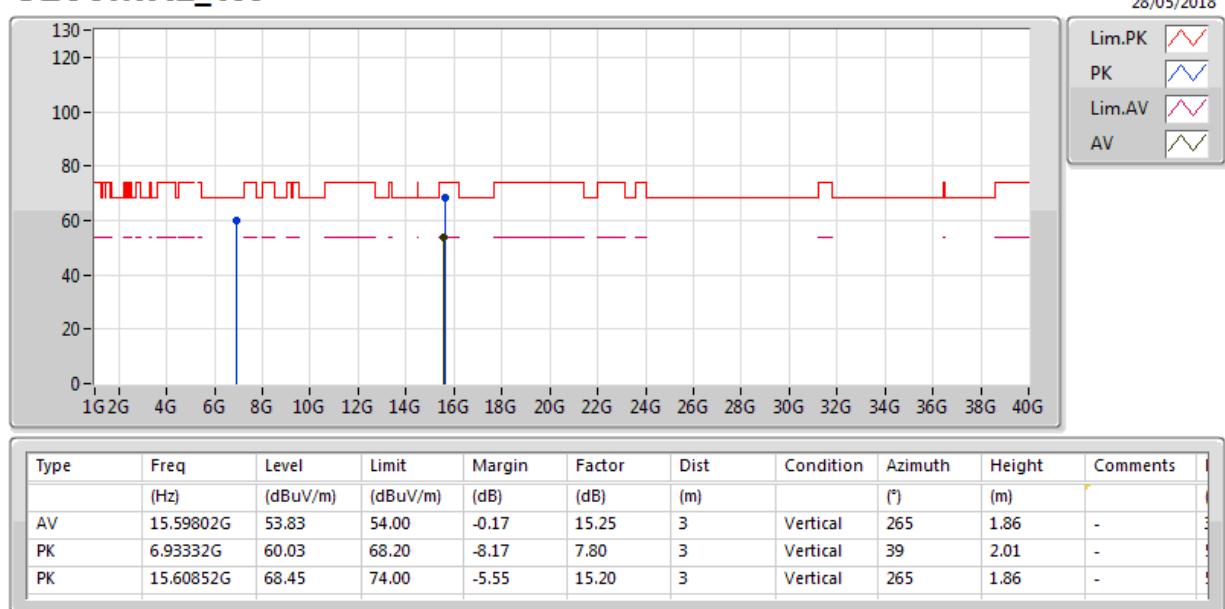
802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX



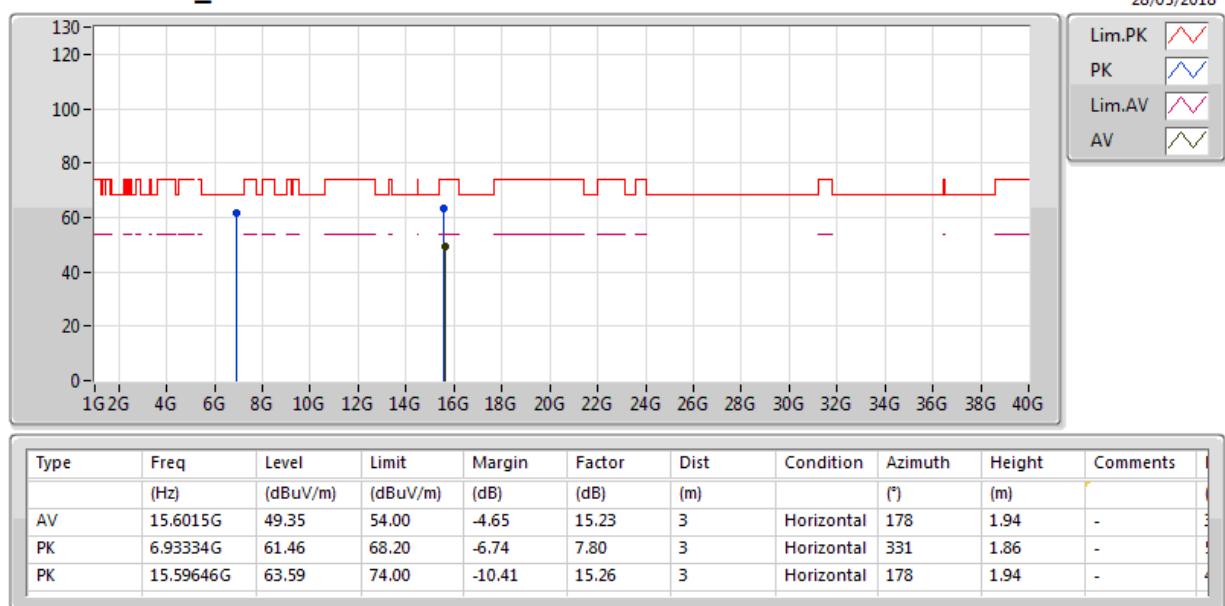
802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX



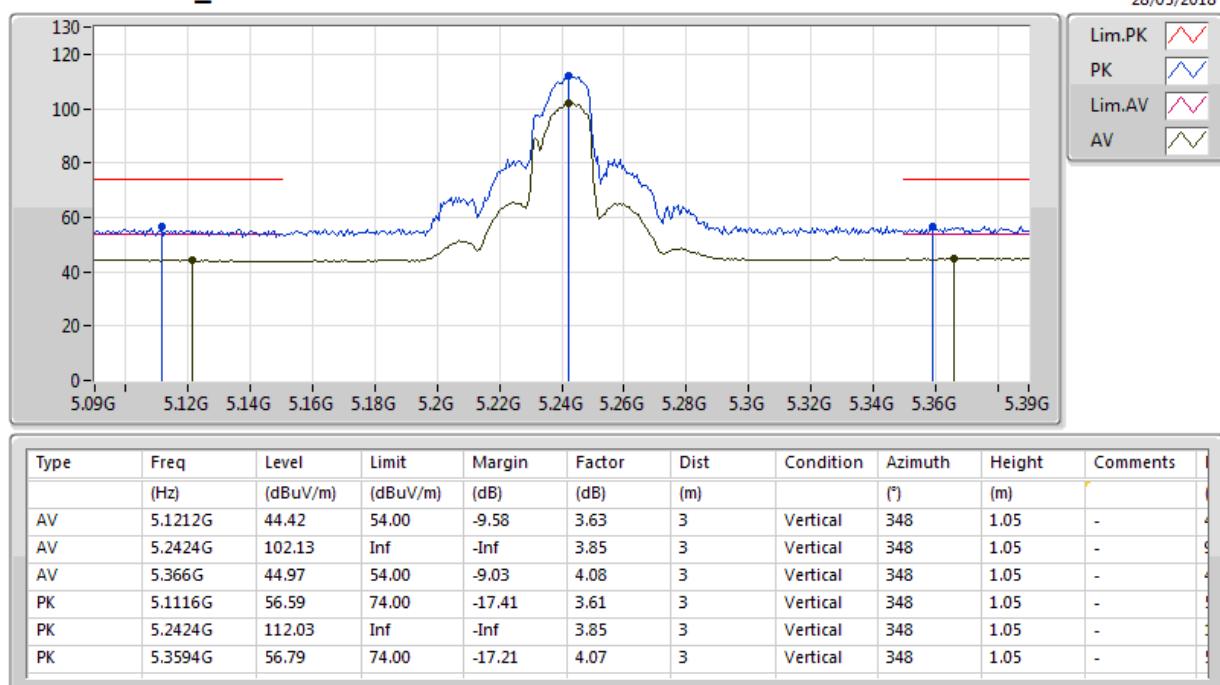
802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX



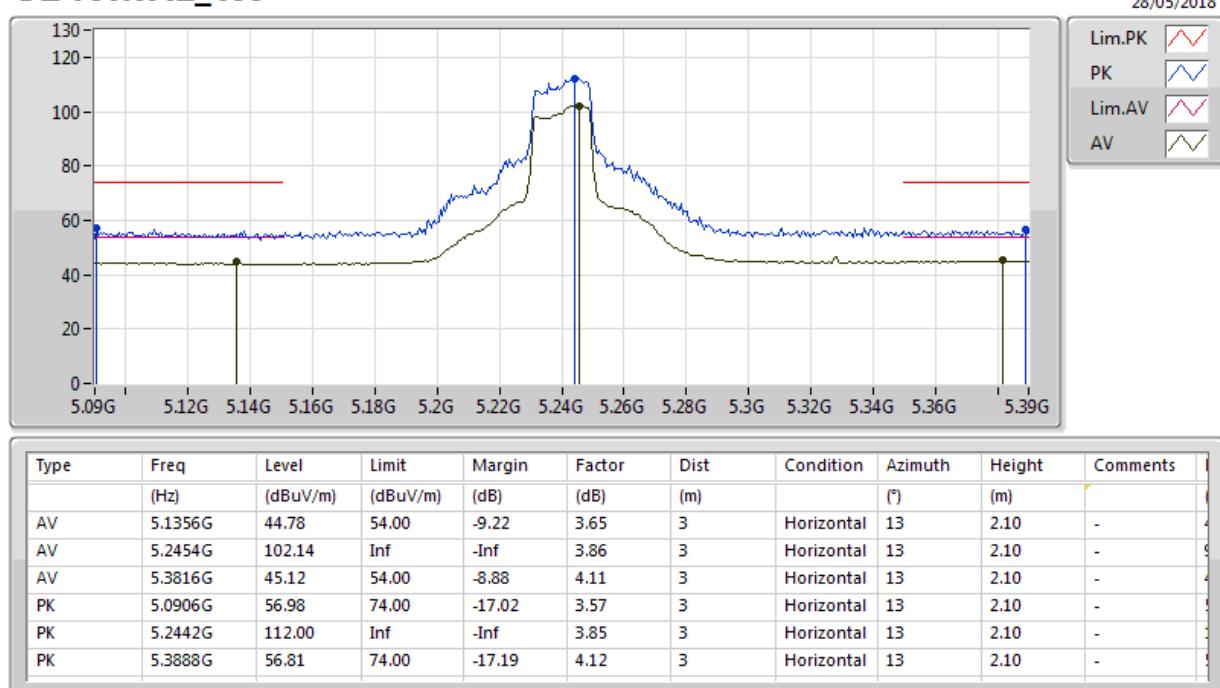
802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX



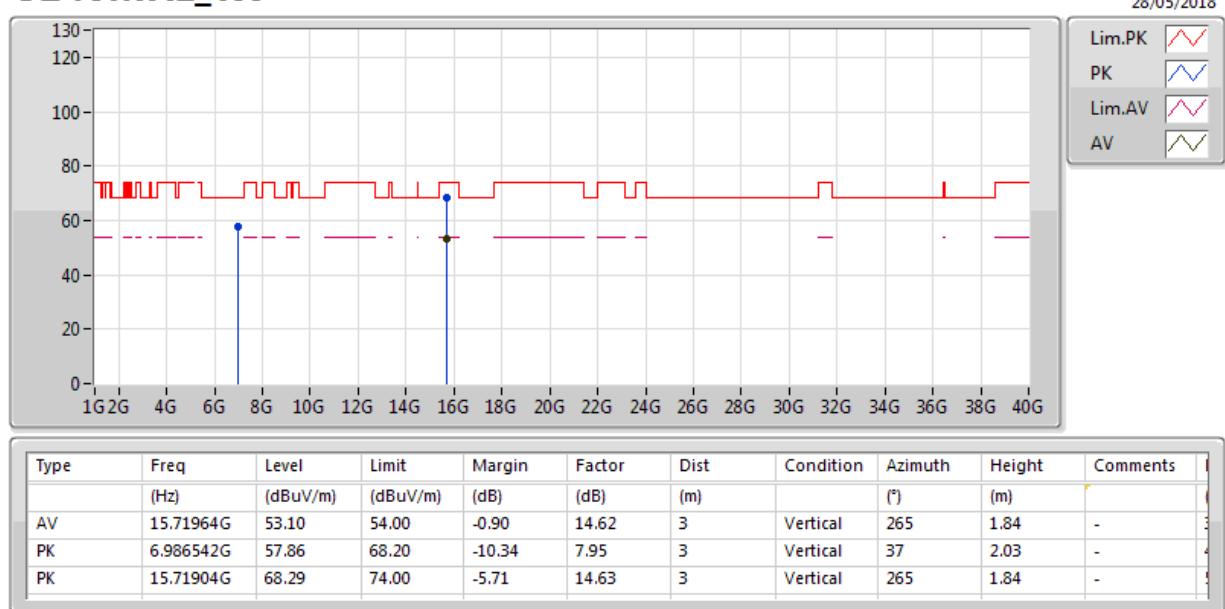
802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX



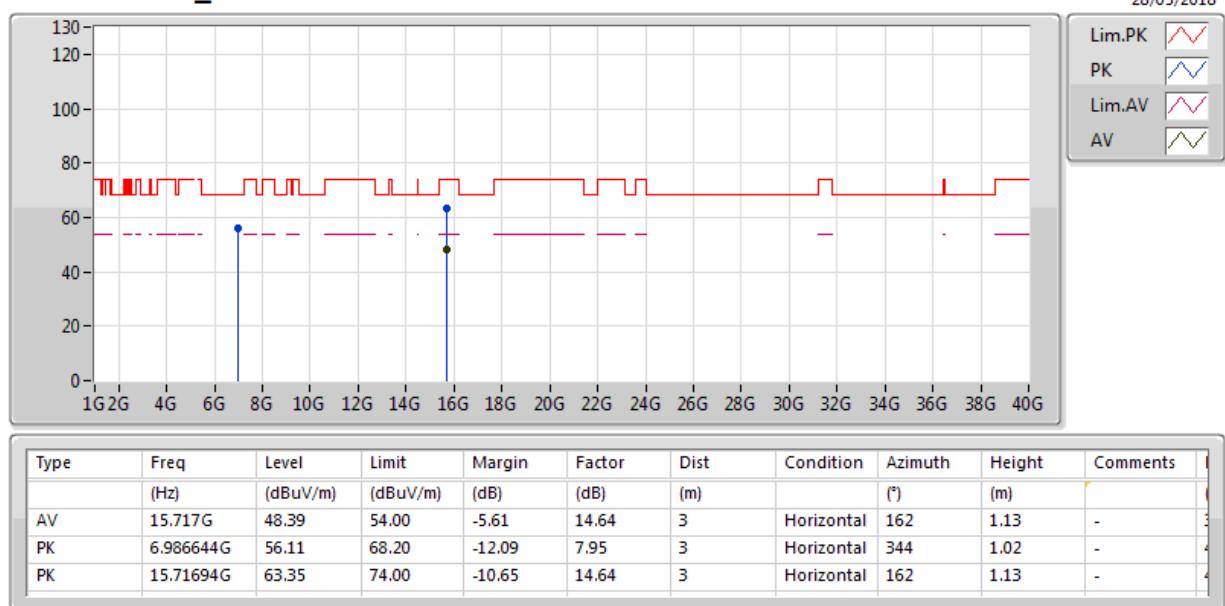
802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX



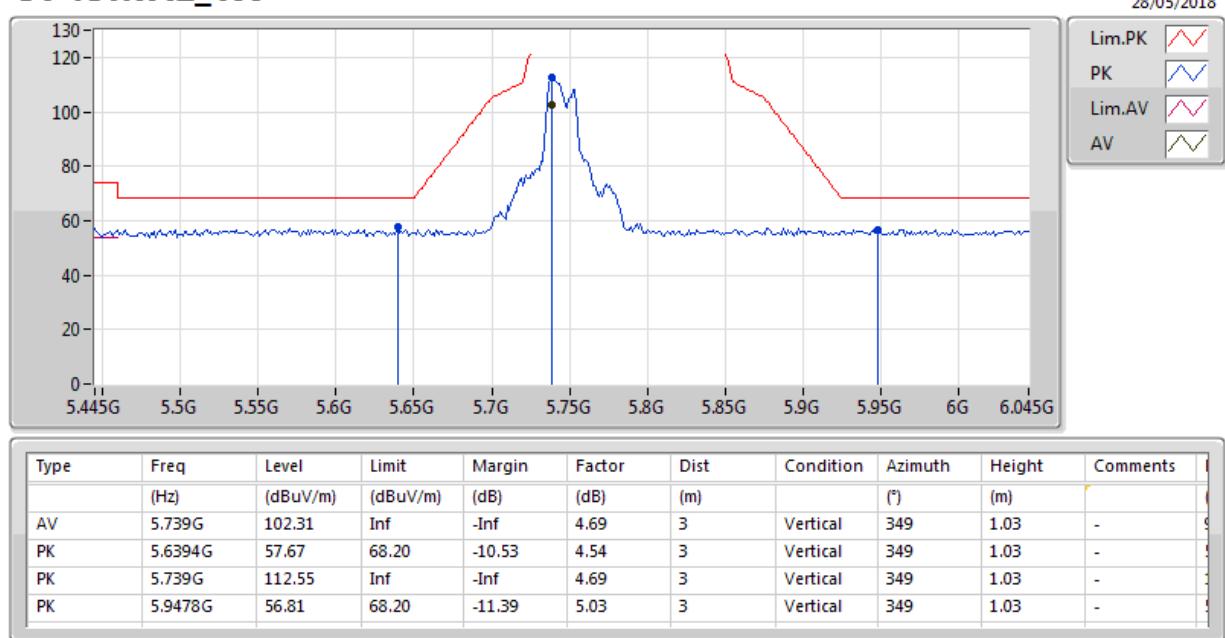
802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX



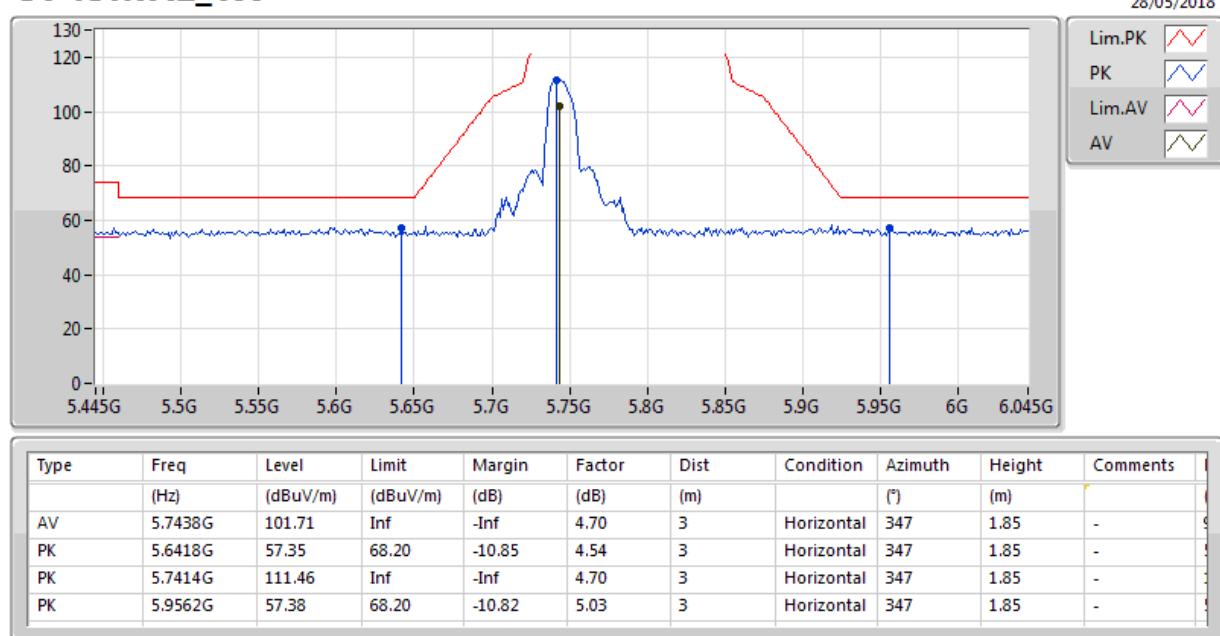
802.11a_Nss1,(6Mbps)_2TX

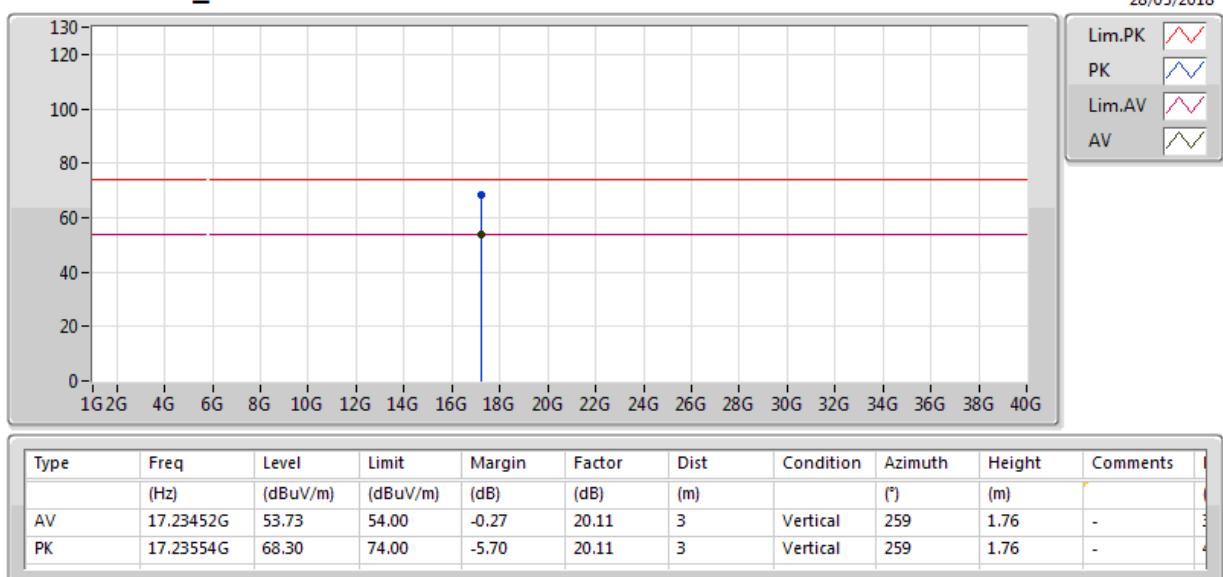
5745MHz_TX



802.11a_Nss1,(6Mbps)_2TX

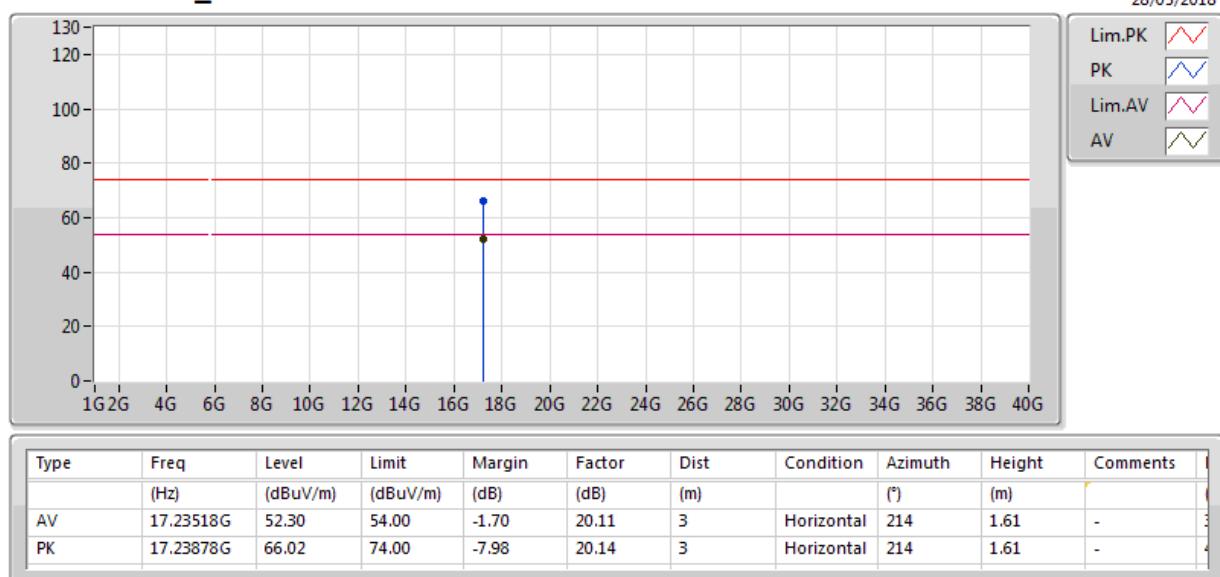
5745MHz_TX

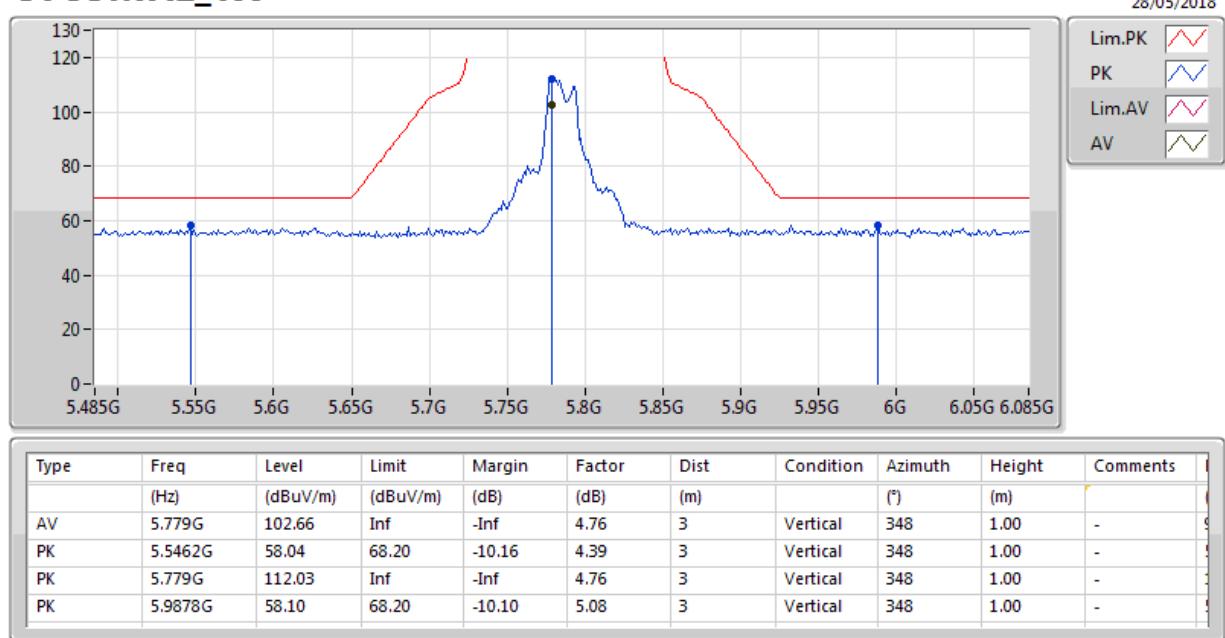


**802.11a_Nss1,(6Mbps)_2TX****5745MHz_TX**

802.11a_Nss1,(6Mbps)_2TX

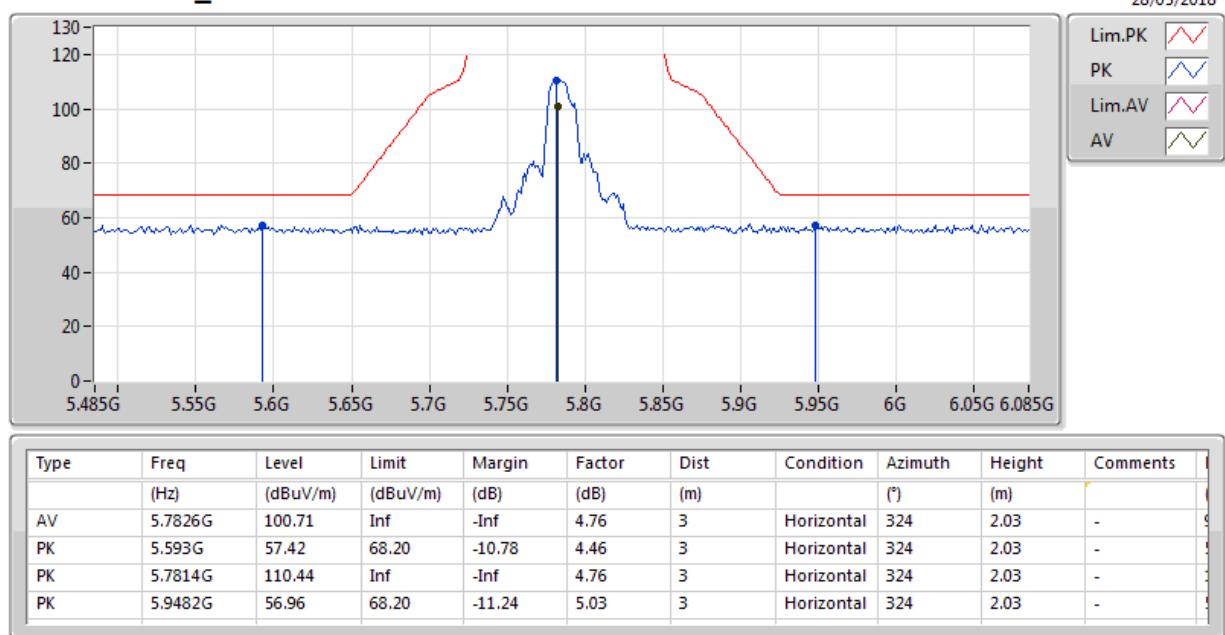
5745MHz_TX

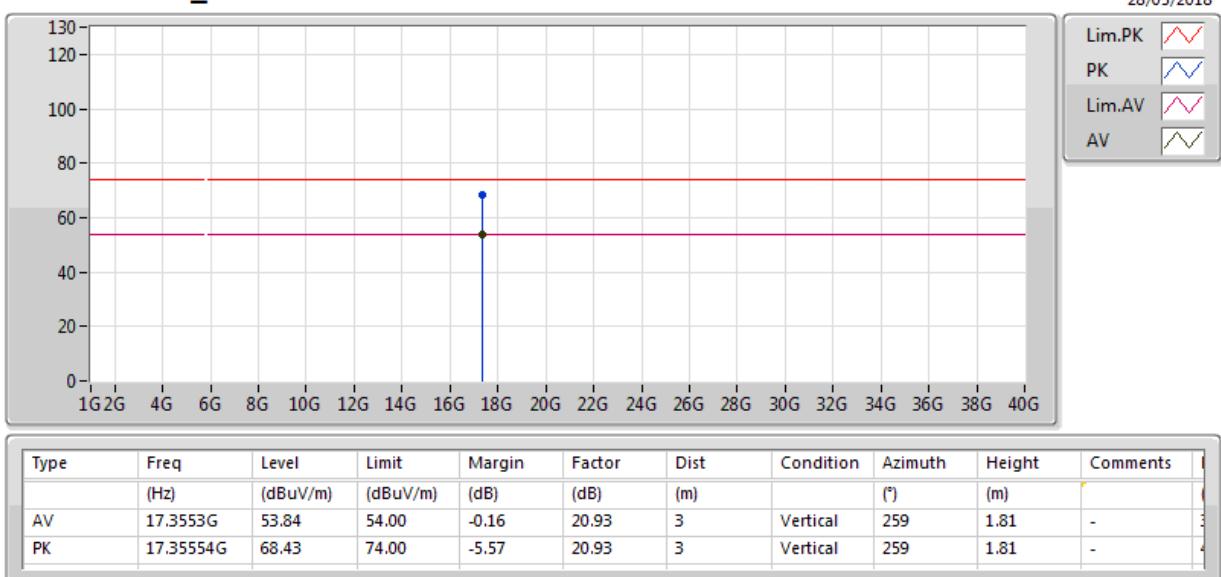


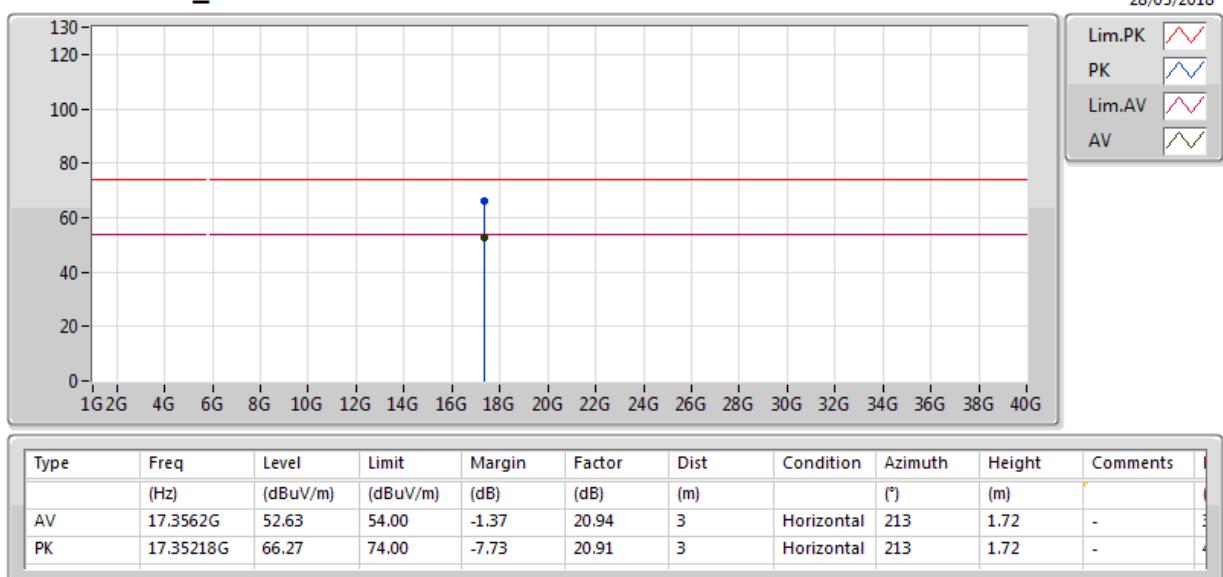
802.11a_Nss1,(6Mbps)_2TX
5785MHz_TX


802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

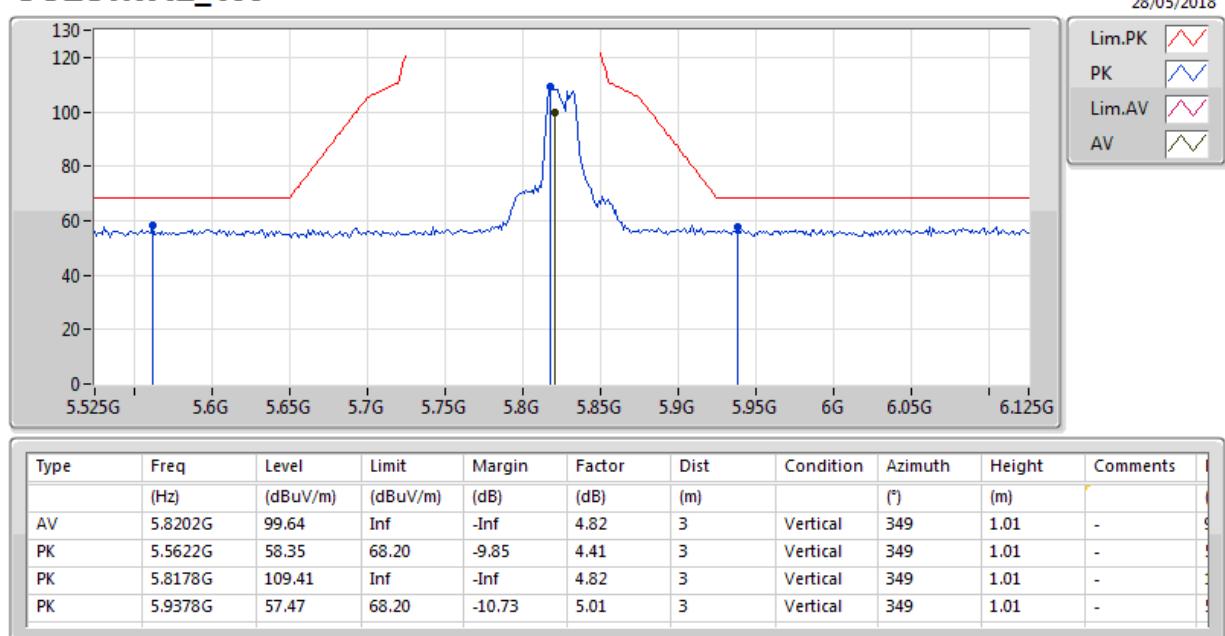


**802.11a_Nss1,(6Mbps)_2TX****5785MHz_TX**

802.11a_Nss1,(6Mbps)_2TX
5785MHz_TX


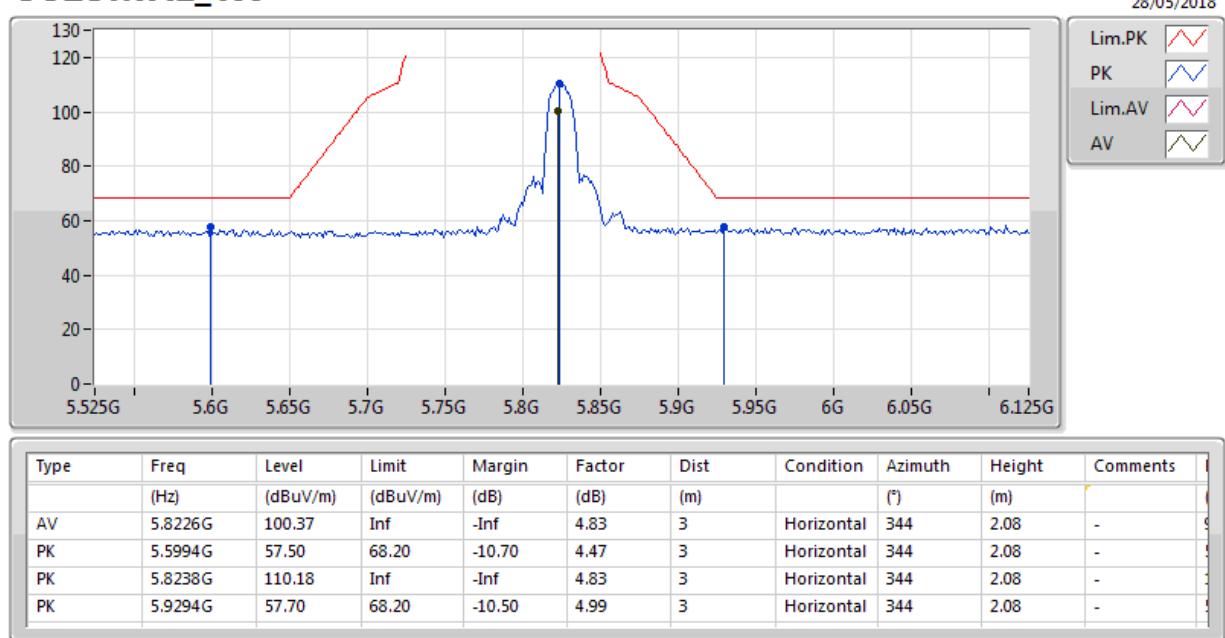
802.11a_Nss1,(6Mbps)_2TX

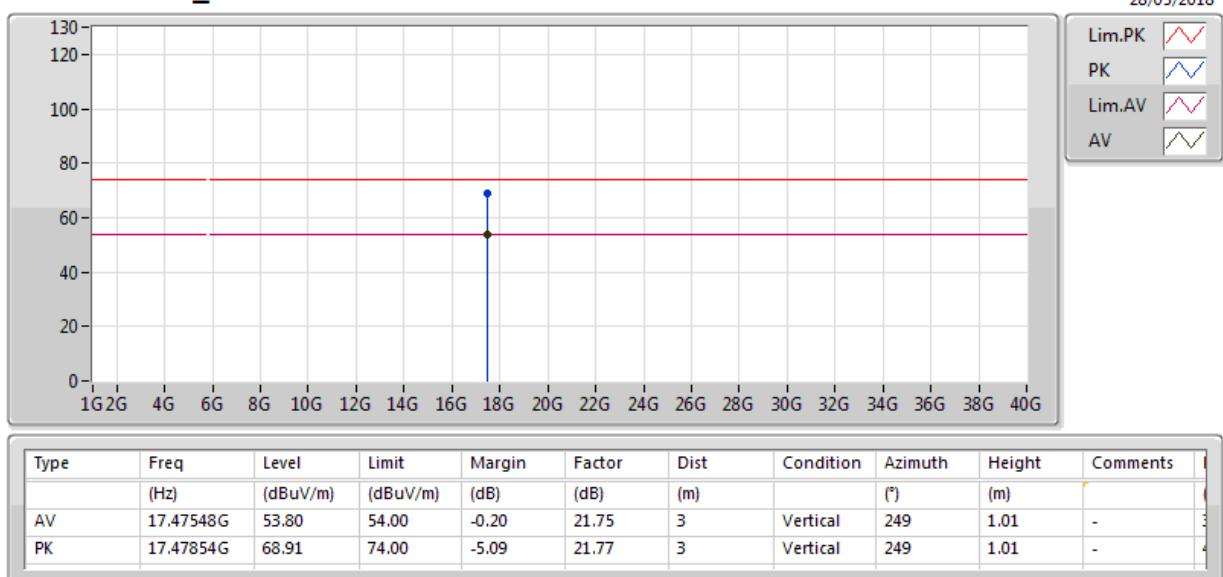
5825MHz_TX



802.11a_Nss1,(6Mbps)_2TX

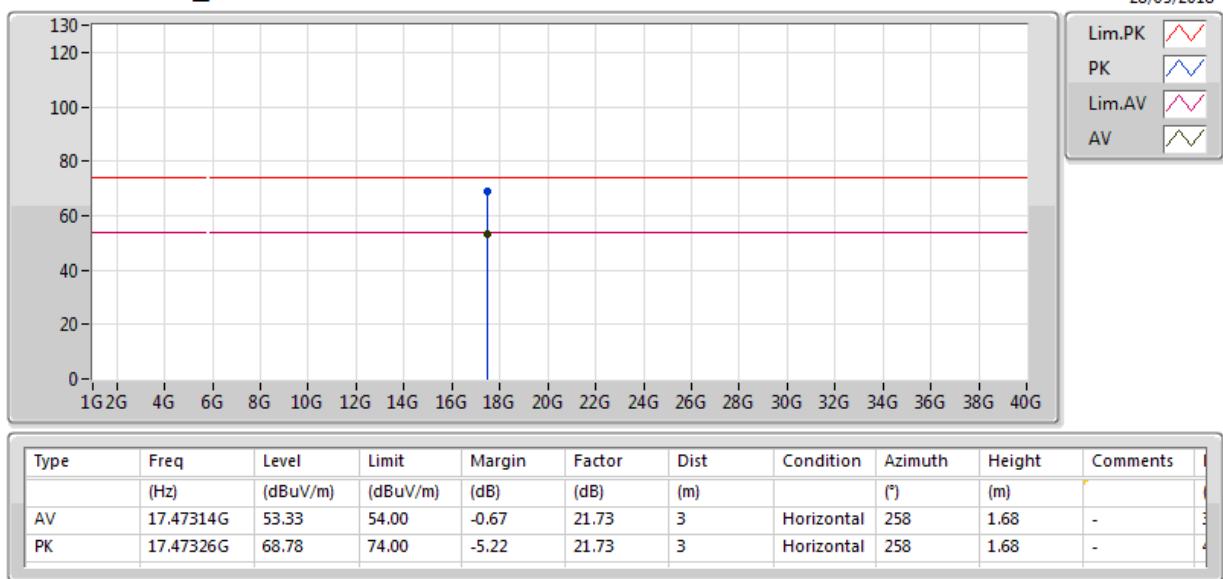
5825MHz_TX



**802.11a_Nss1,(6Mbps)_2TX****5825MHz_TX**

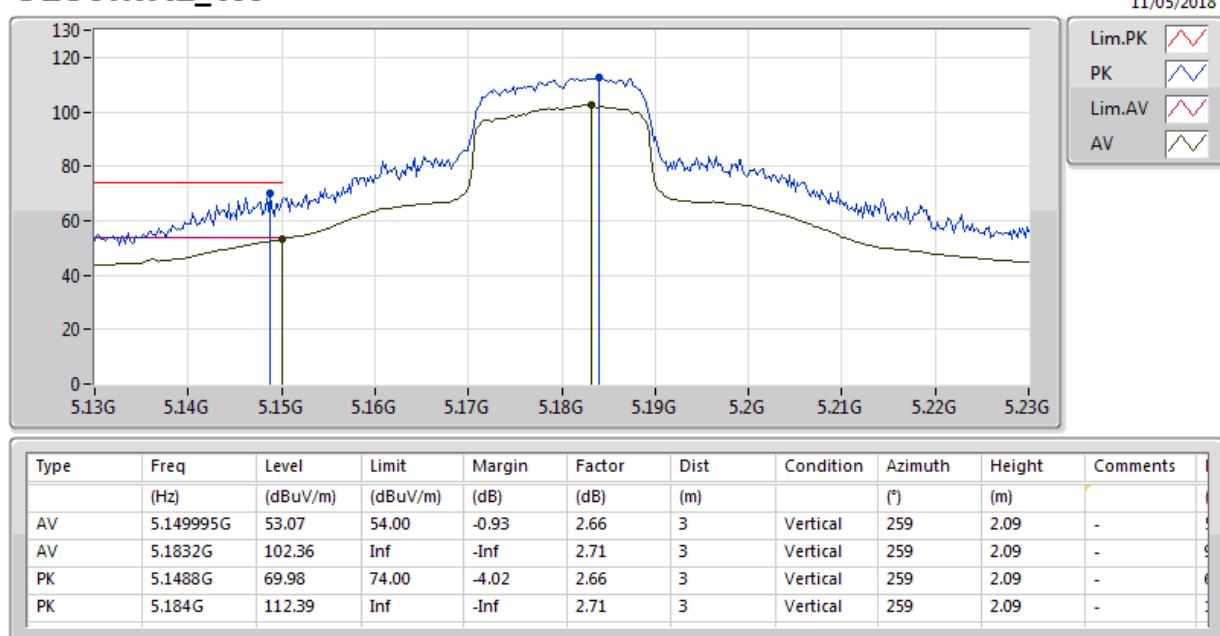
802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX



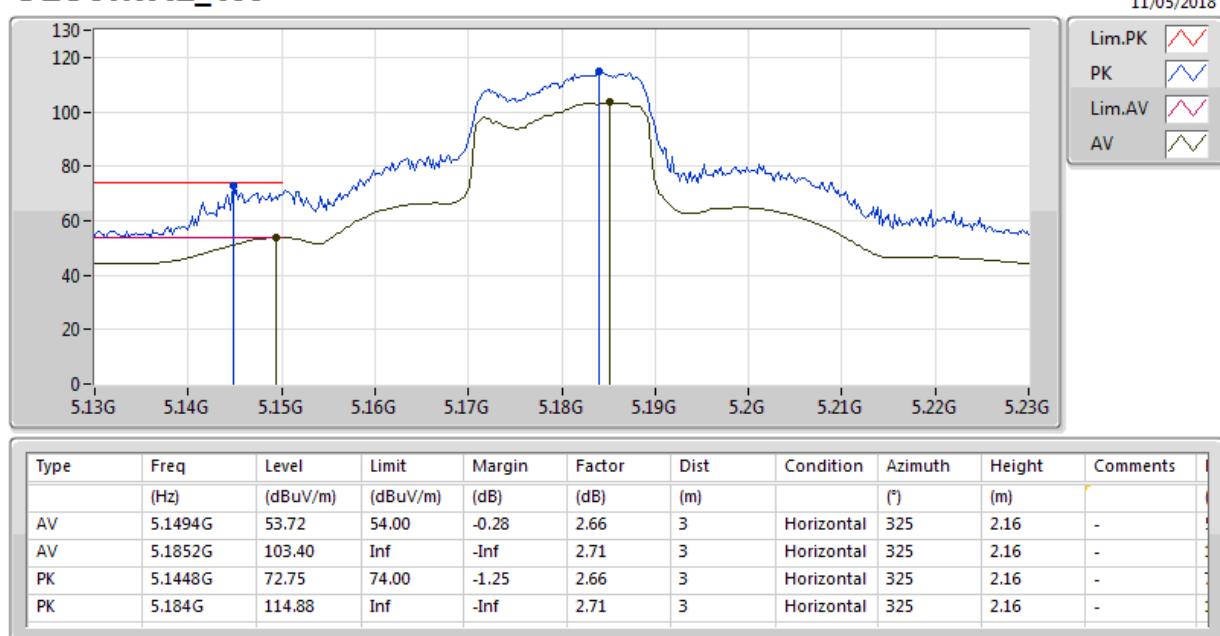
802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX



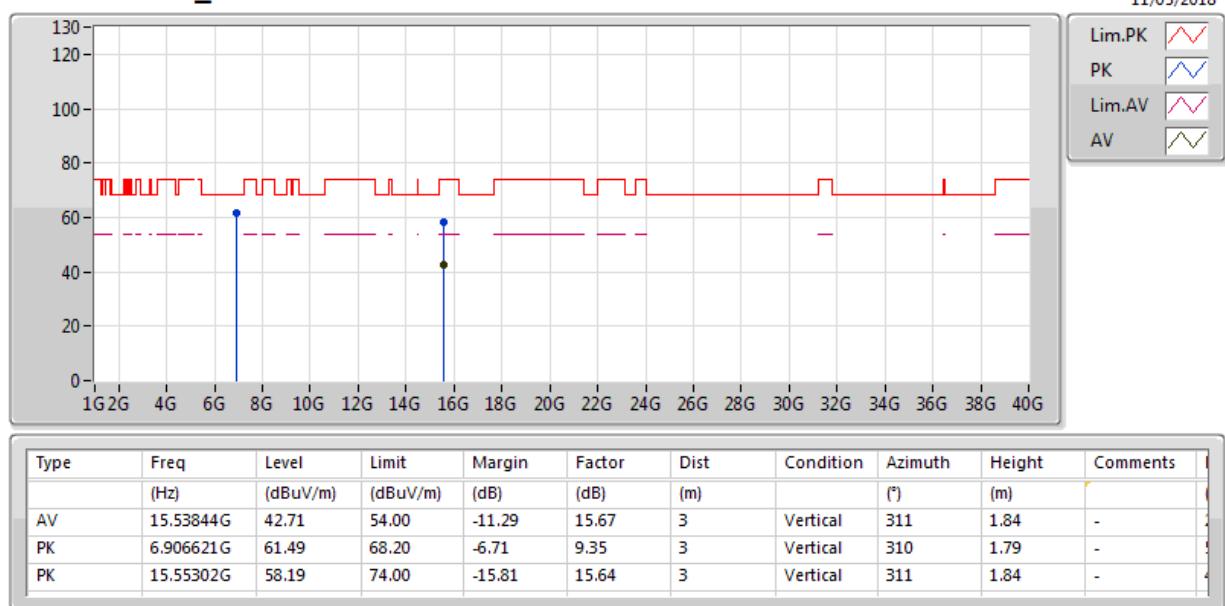
802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX



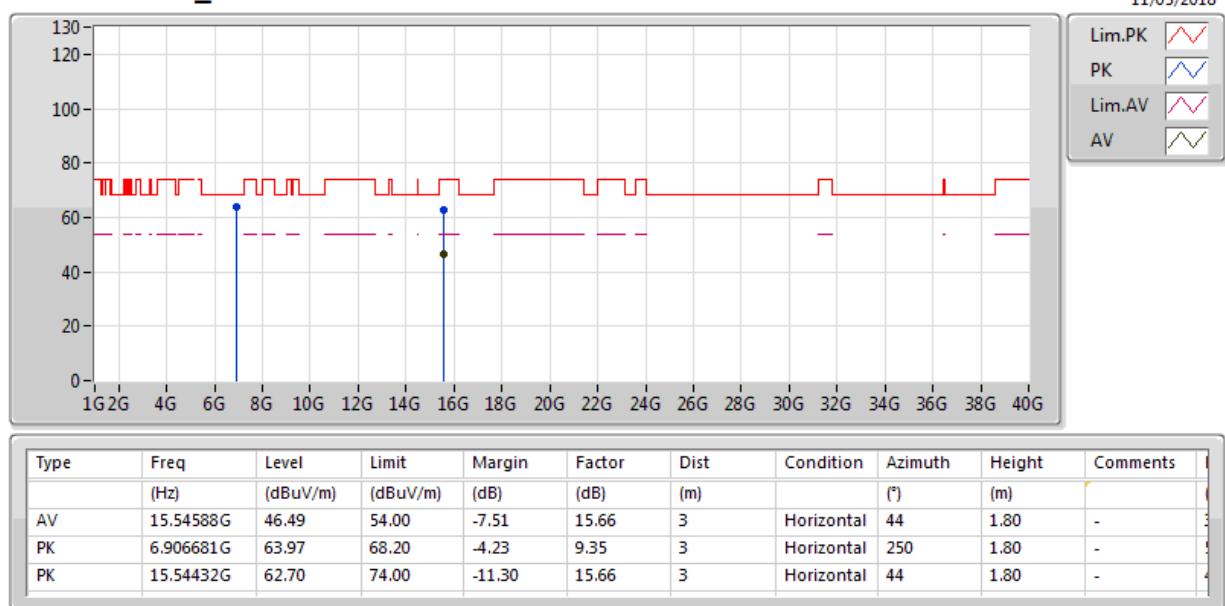
802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX



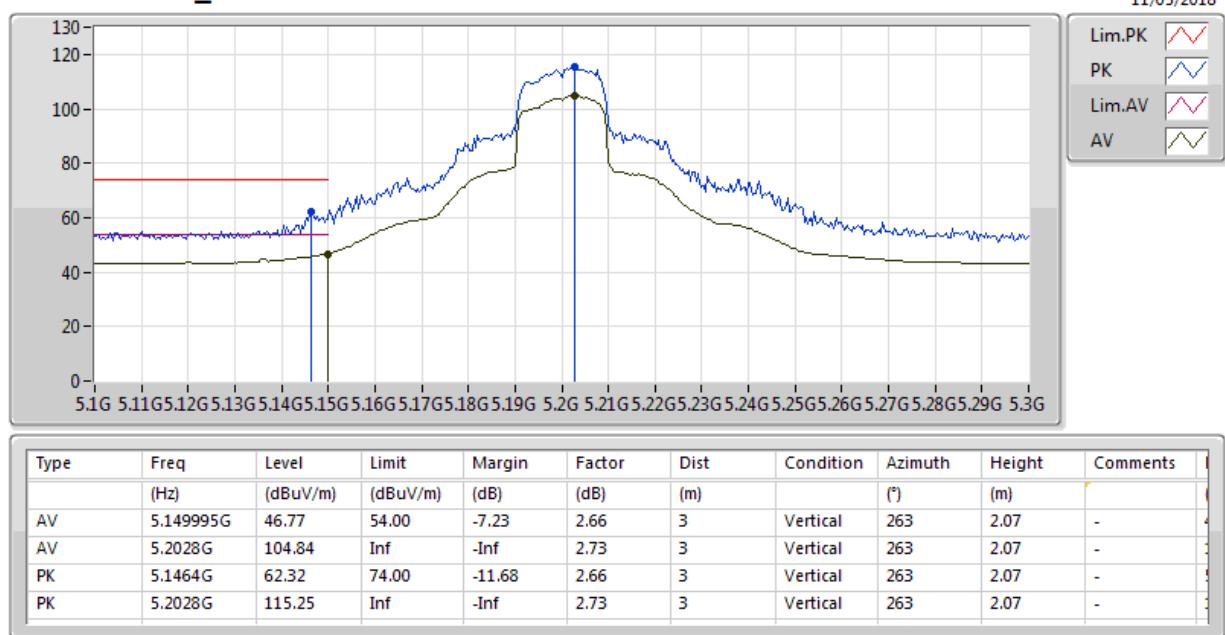
802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX



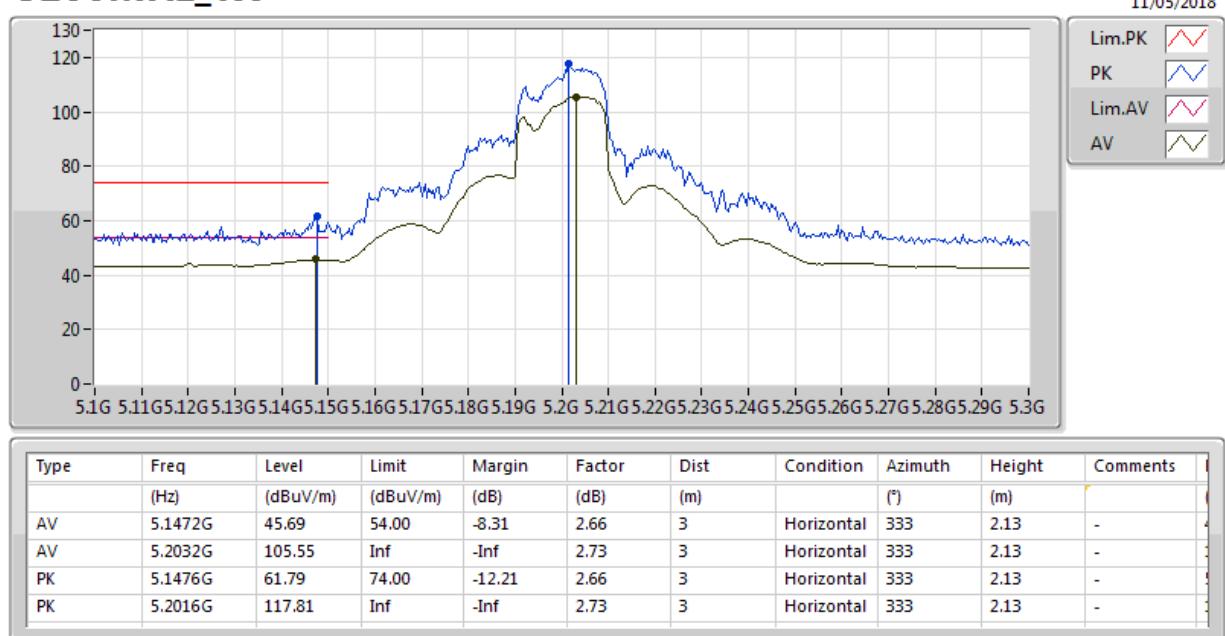
802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX



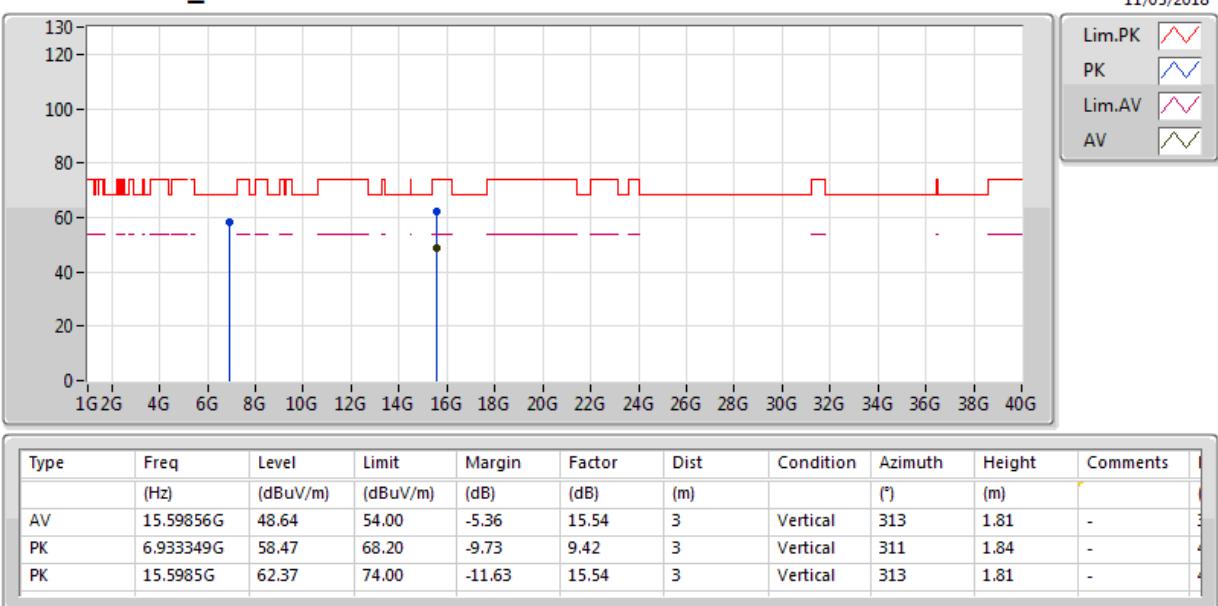
802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX



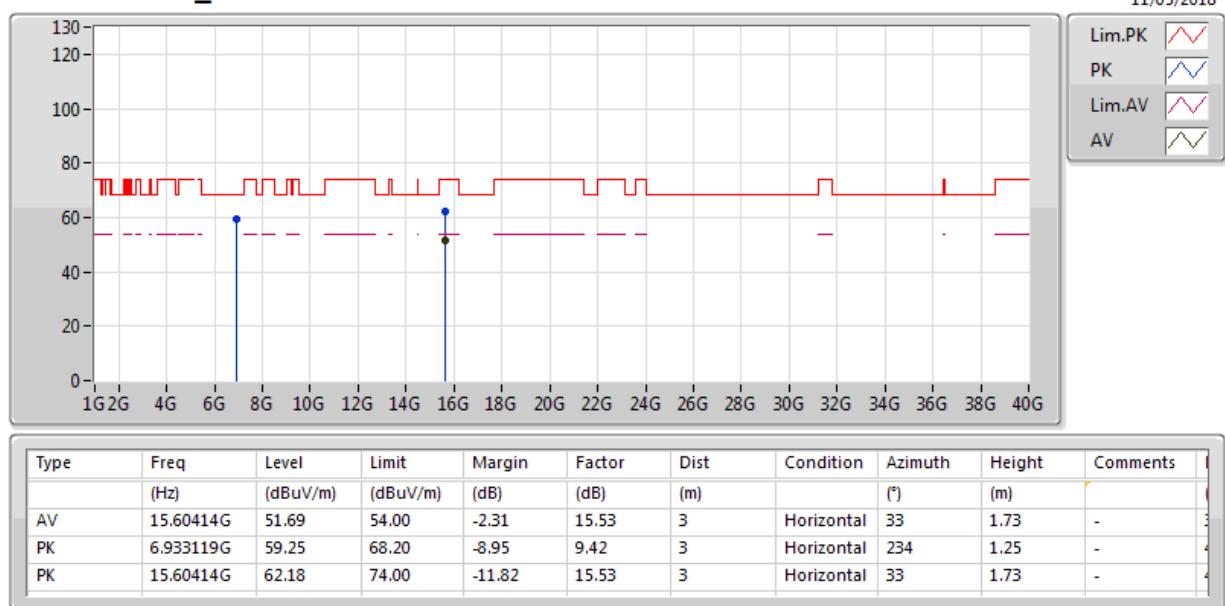
802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX



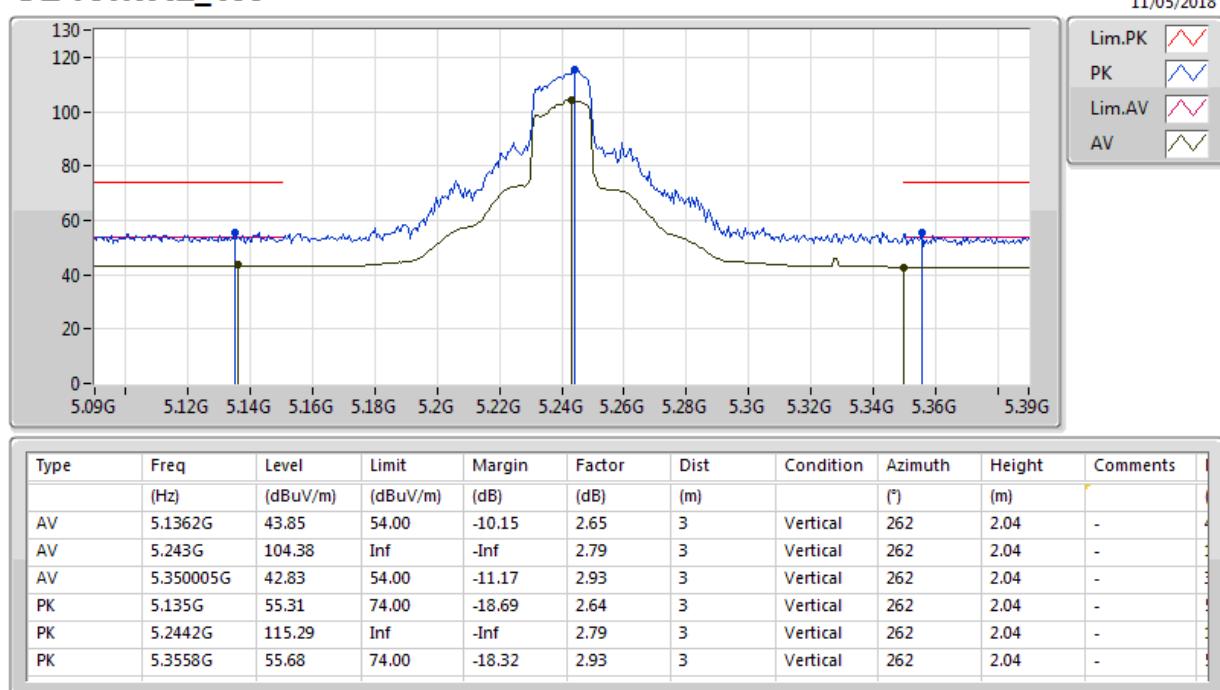
802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX



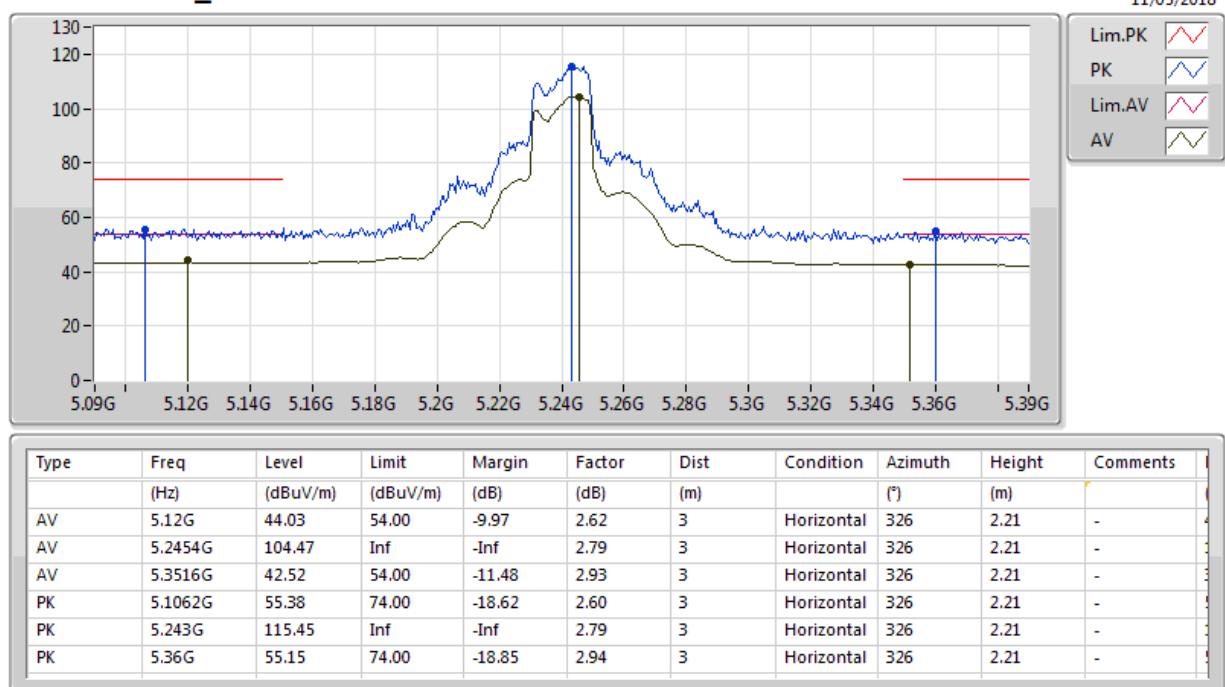
802.11ac VHT20_Nss1,(MCS0)_2TX

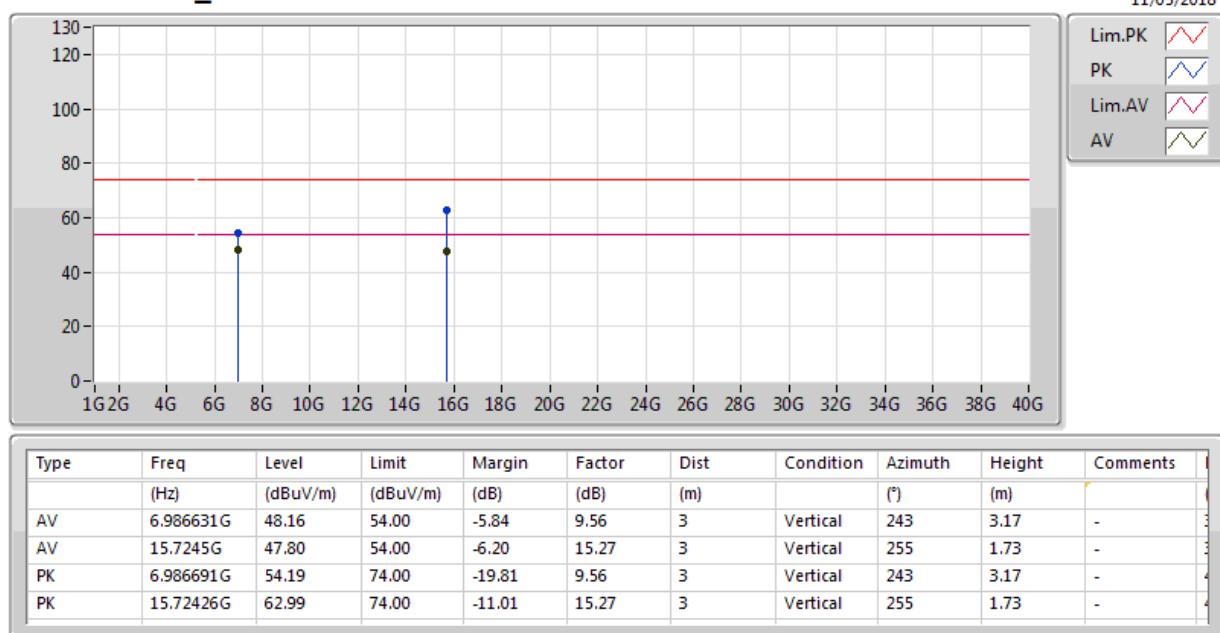
5240MHz_TX

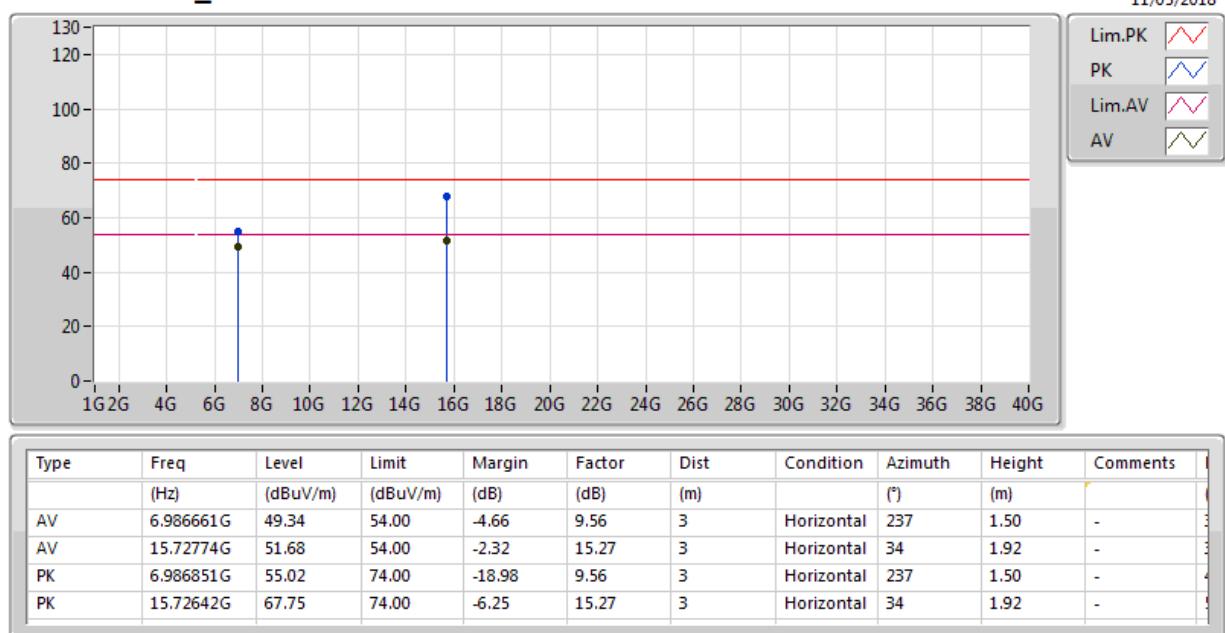


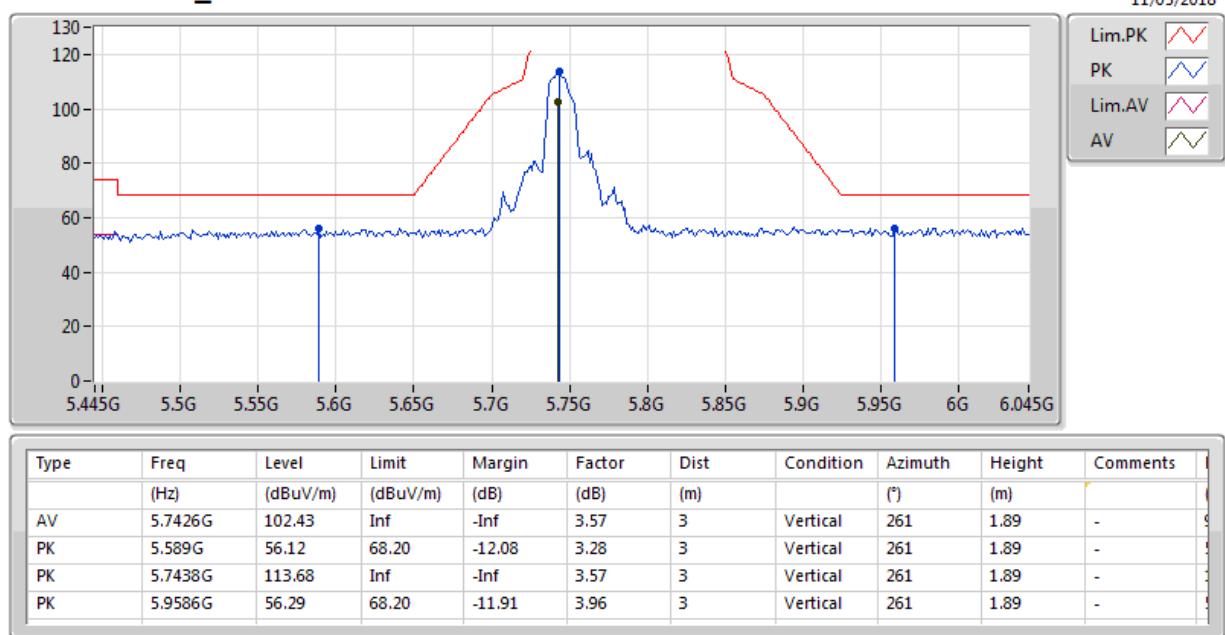
802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX



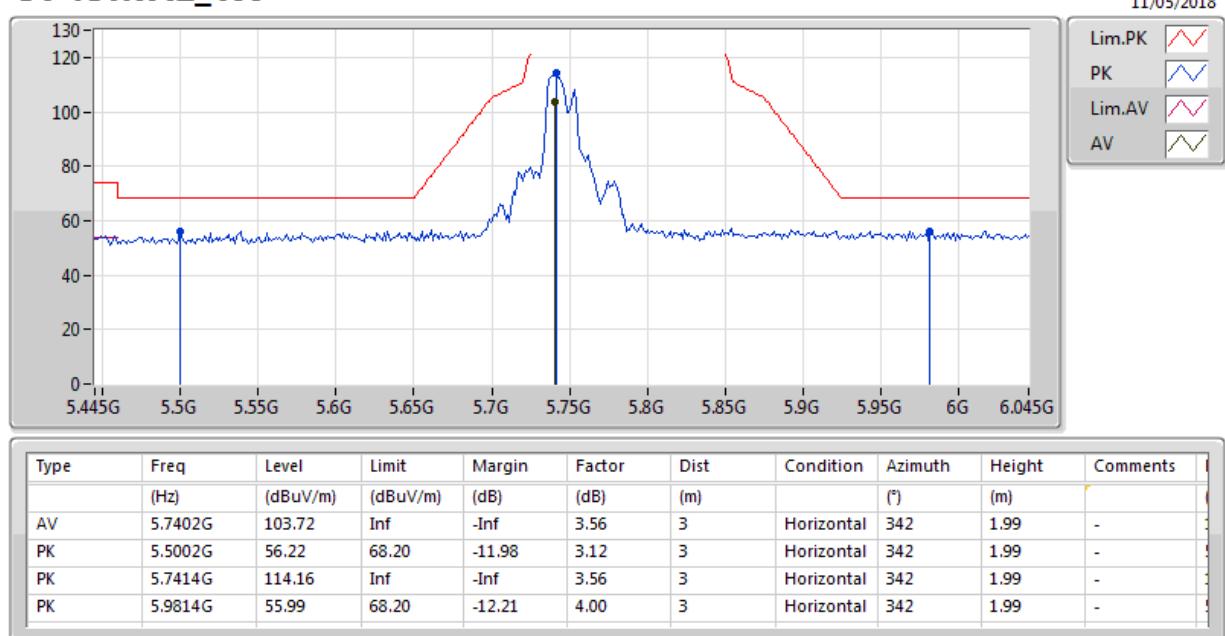
**802.11ac VHT20_Nss1,(MCS0)_2TX****5240MHz_TX**

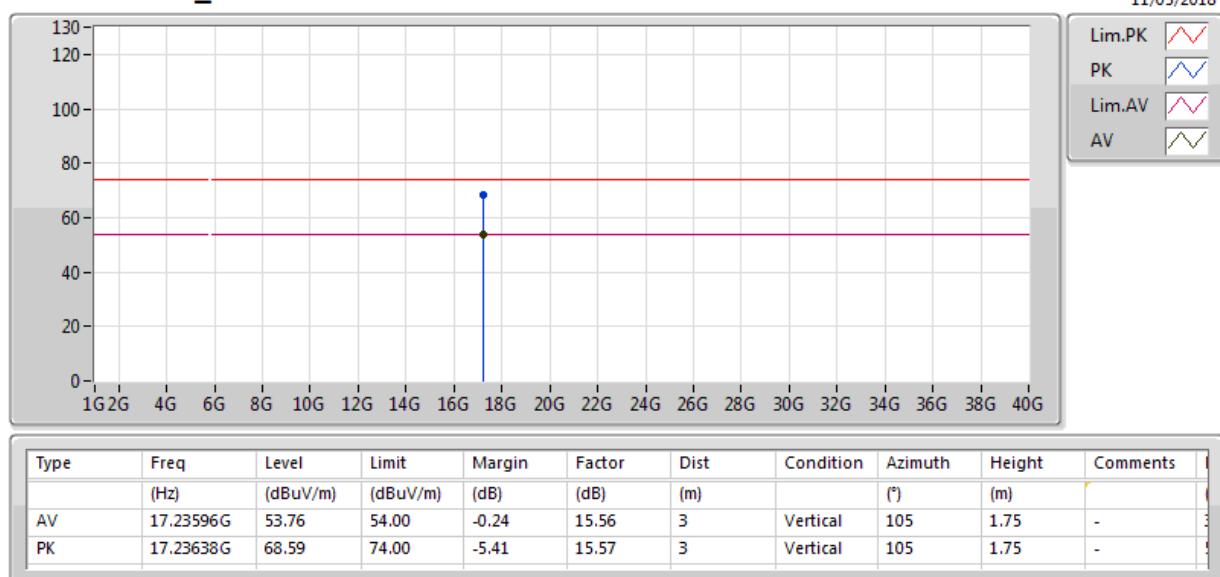
**802.11ac VHT20_Nss1,(MCS0)_2TX****5240MHz_TX**

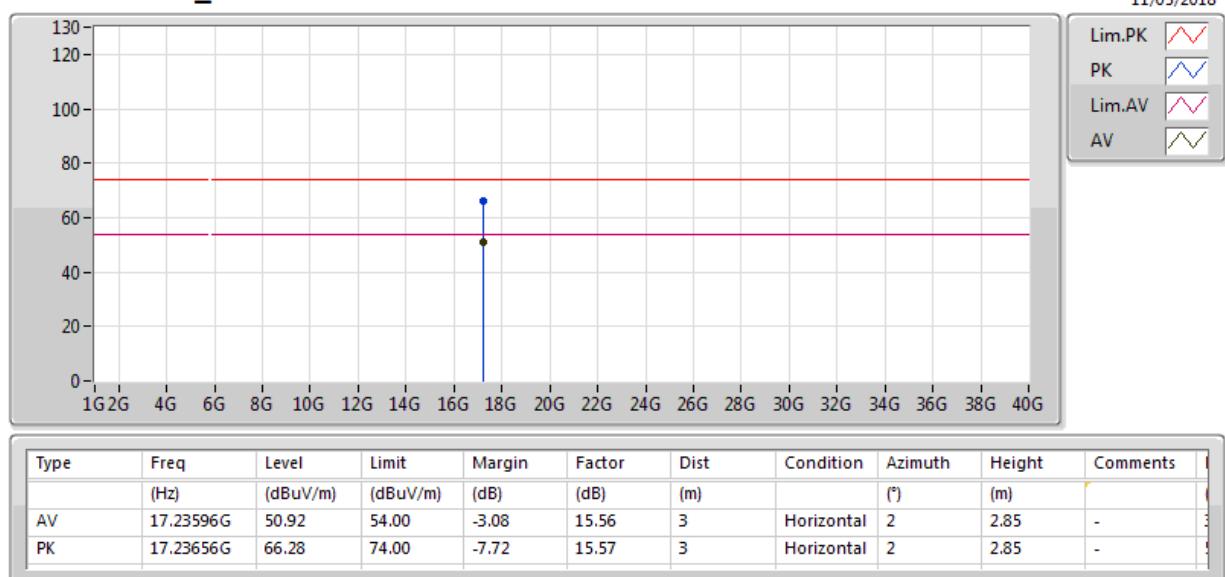
**802.11ac VHT20_Nss1,(MCS0)_2TX****5745MHz_TX**

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

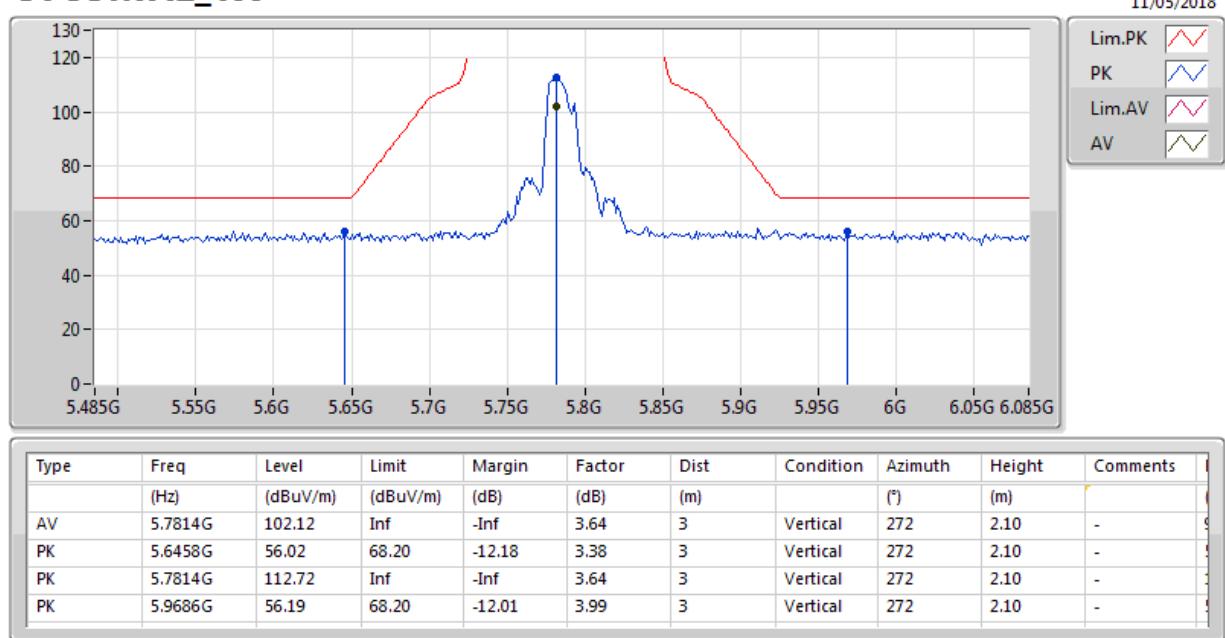


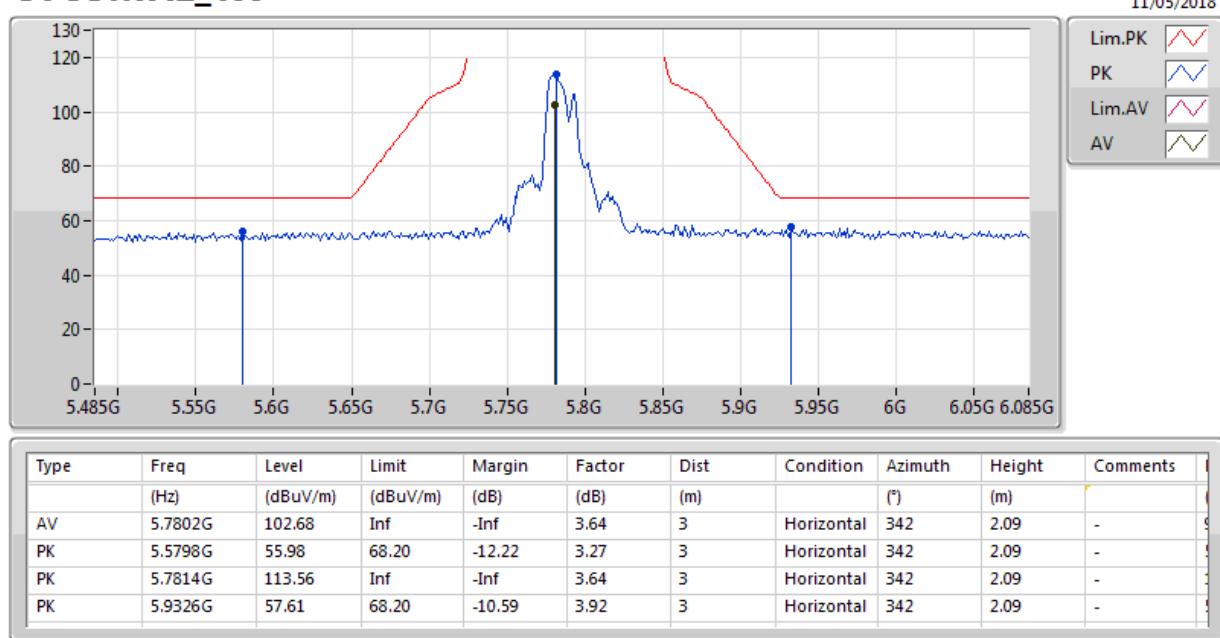
**802.11ac VHT20_Nss1,(MCS0)_2TX****5745MHz_TX**

**802.11ac VHT20_Nss1,(MCS0)_2TX****5745MHz_TX**

802.11ac VHT20_Nss1,(MCS0)_2TX

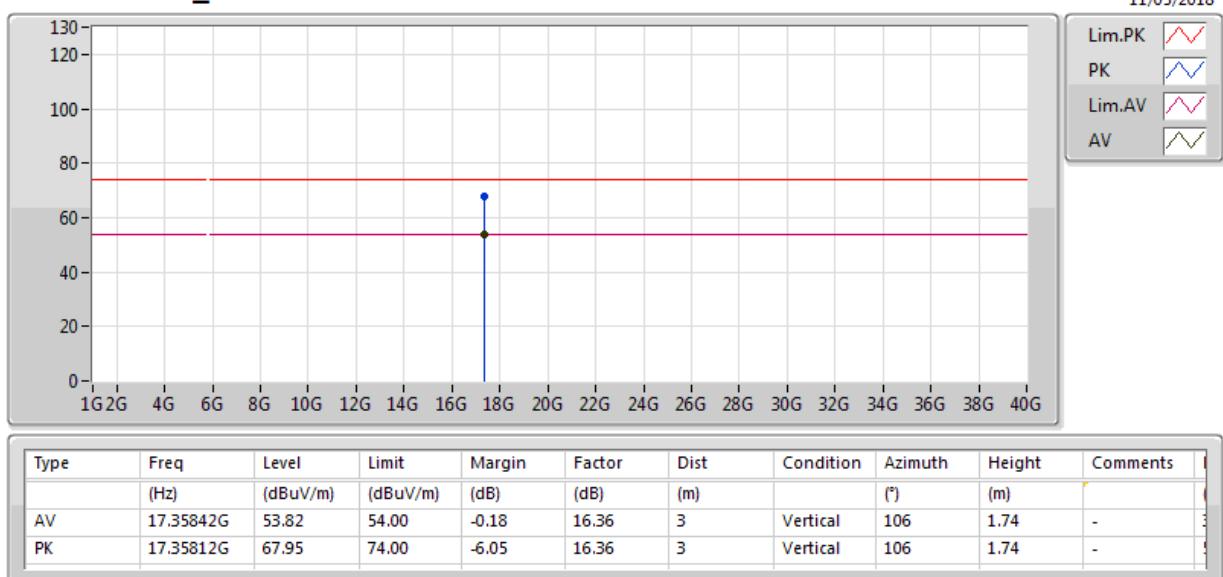
5785MHz_TX

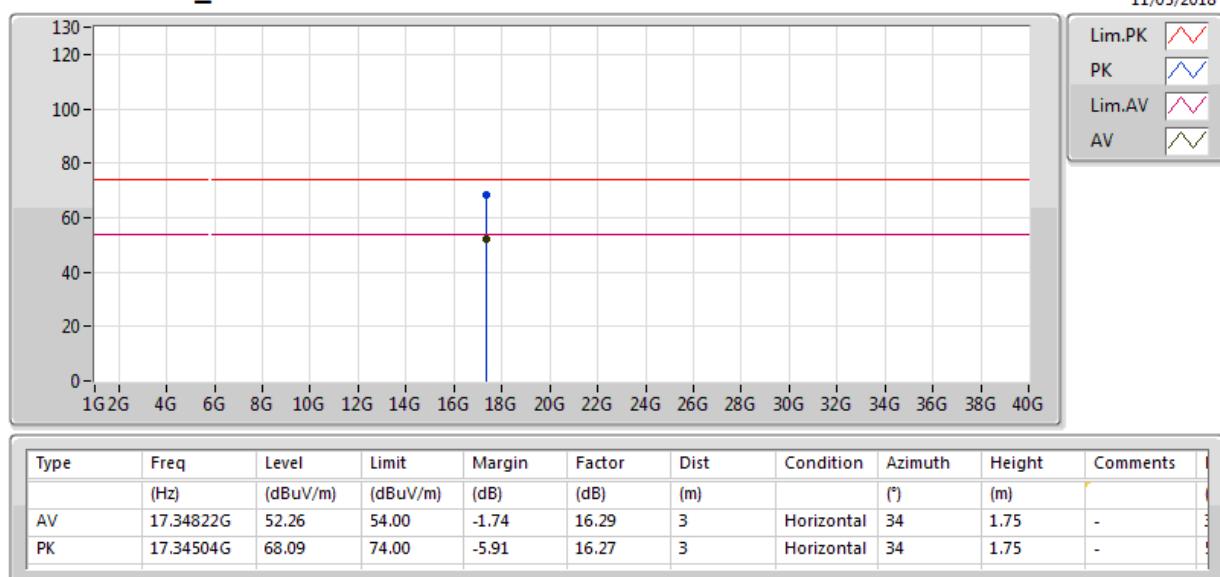


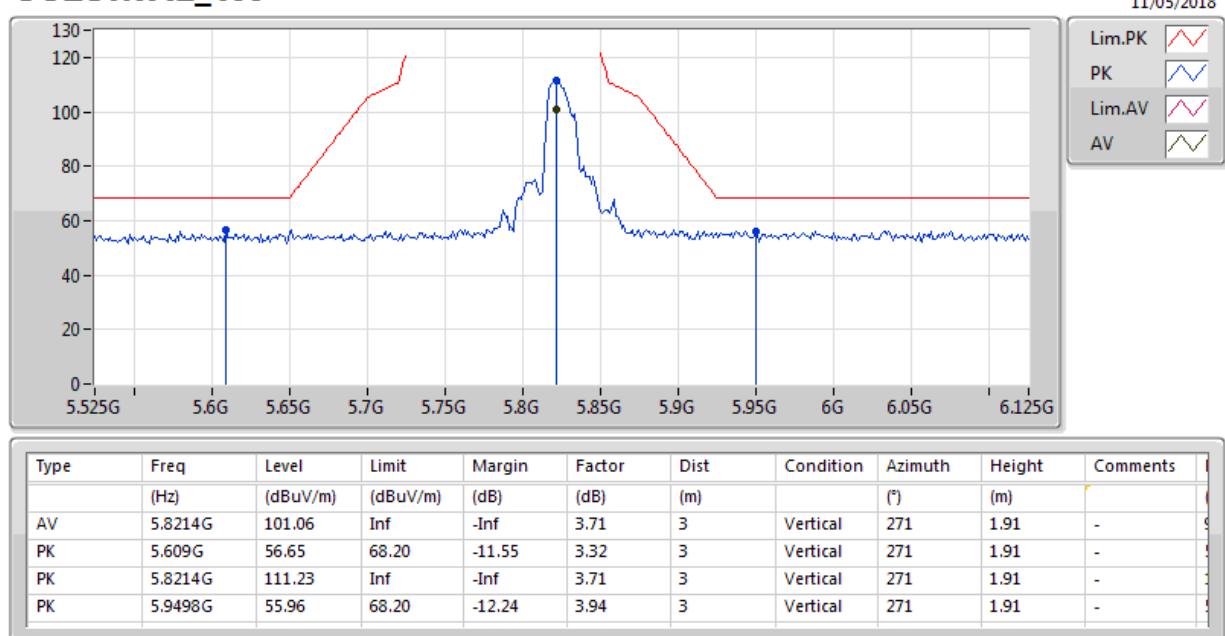
**802.11ac VHT20_Nss1,(MCS0)_2TX****5785MHz_TX**

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

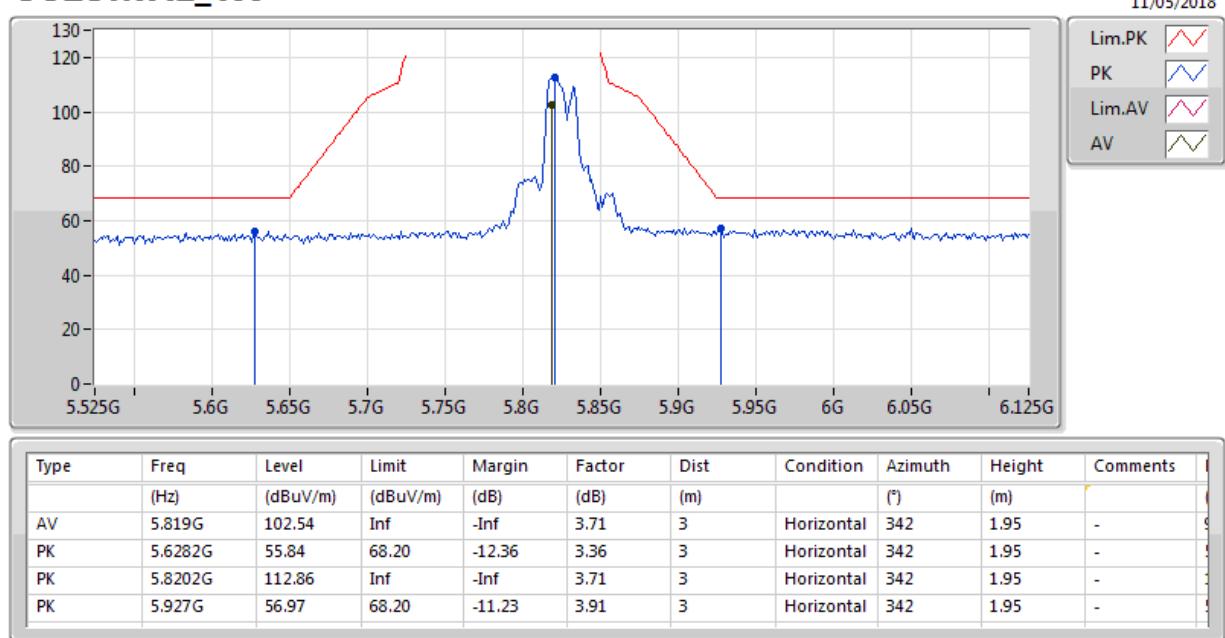


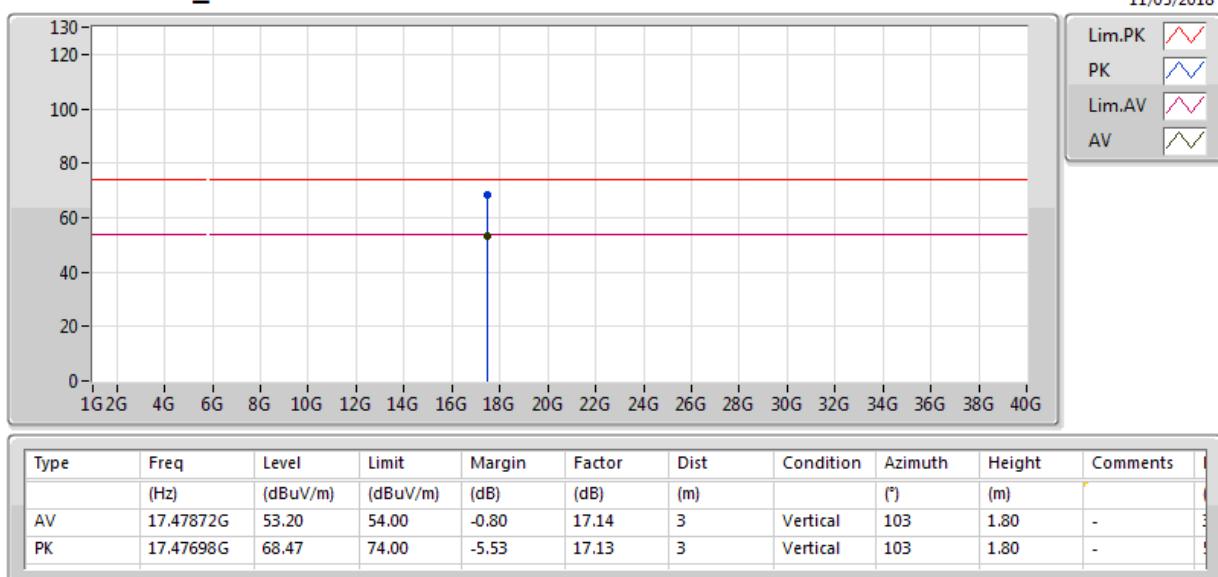
**802.11ac VHT20_Nss1,(MCS0)_2TX****5785MHz_TX**

**802.11ac VHT20_Nss1,(MCS0)_2TX****5825MHz_TX**

802.11ac VHT20_Nss1,(MCS0)_2TX

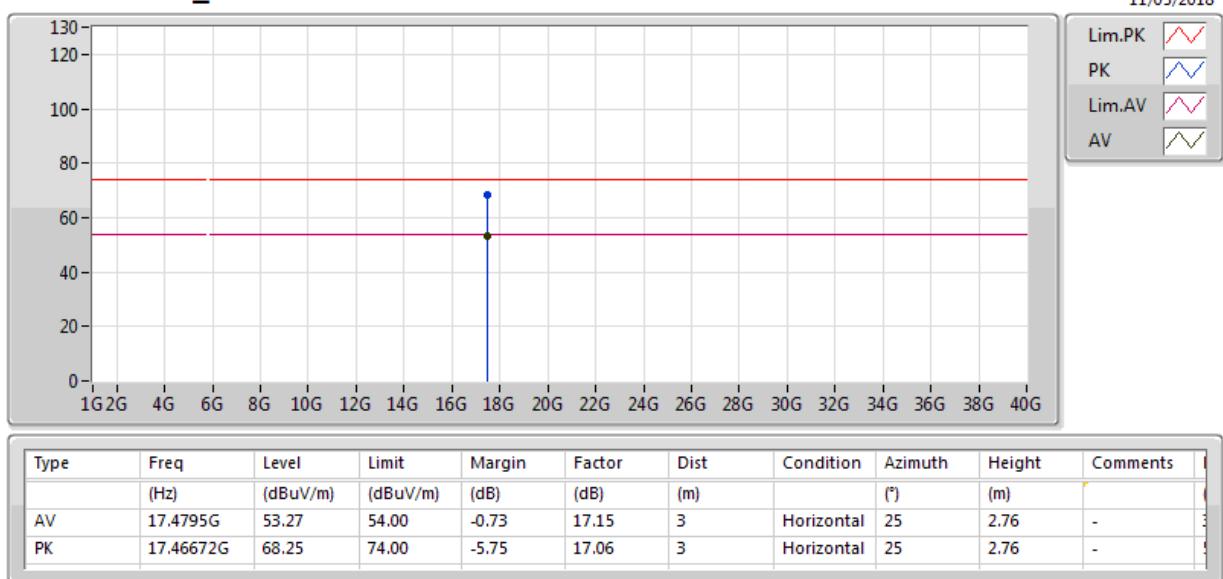
5825MHz_TX



**802.11ac VHT20_Nss1,(MCS0)_2TX****5825MHz_TX**

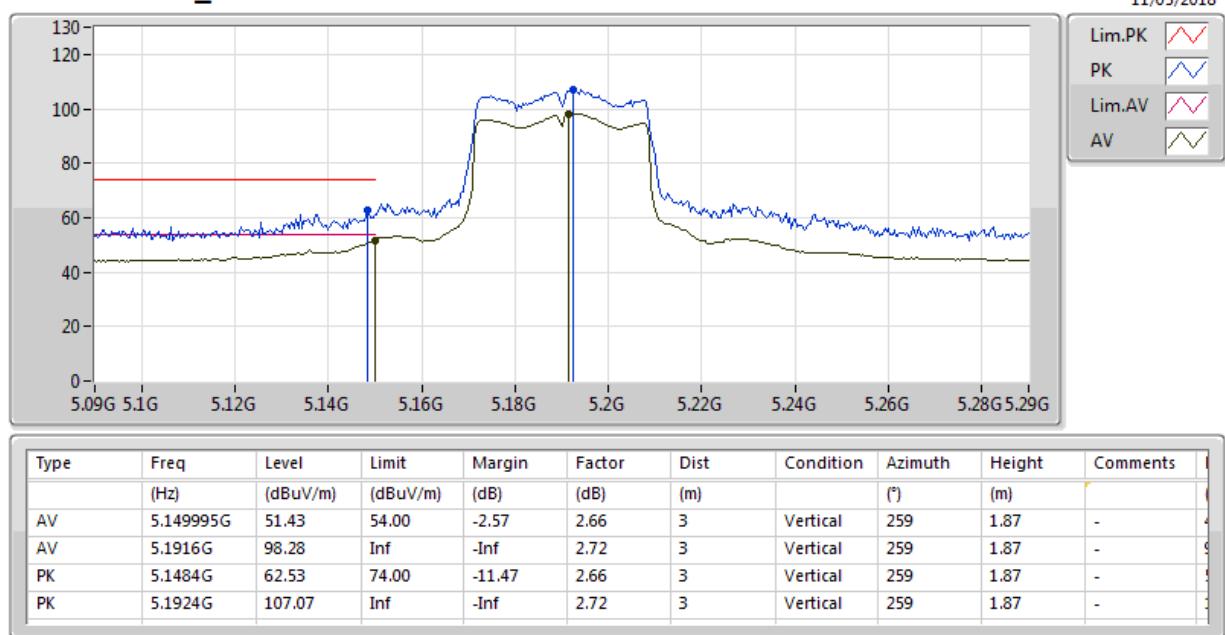
802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX



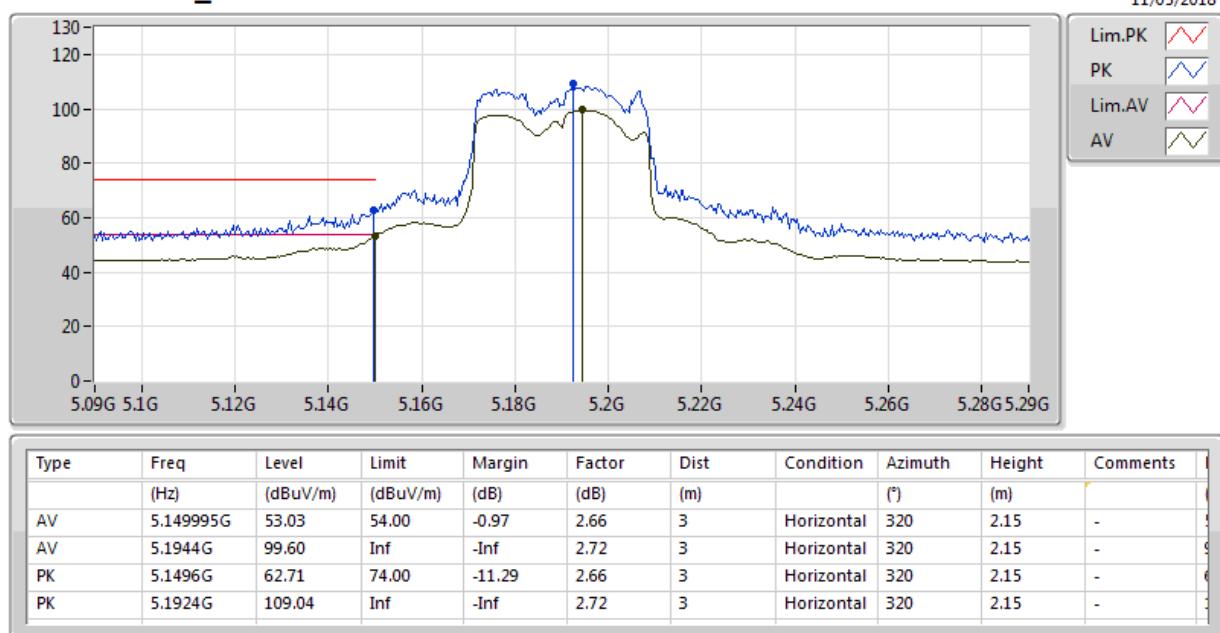
802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX



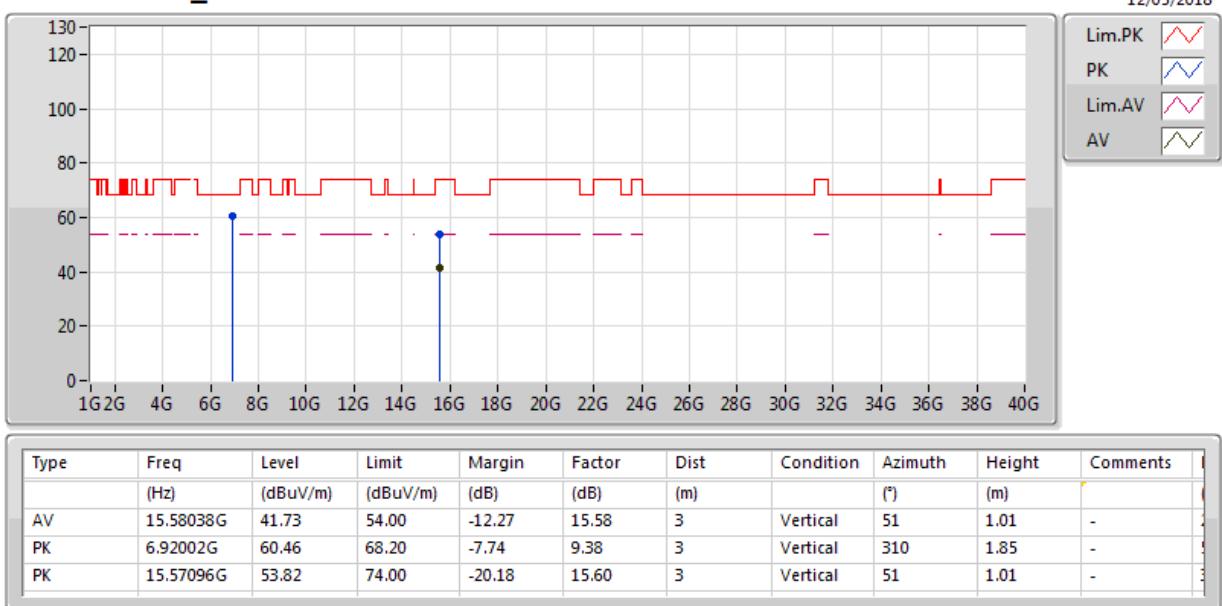
802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX



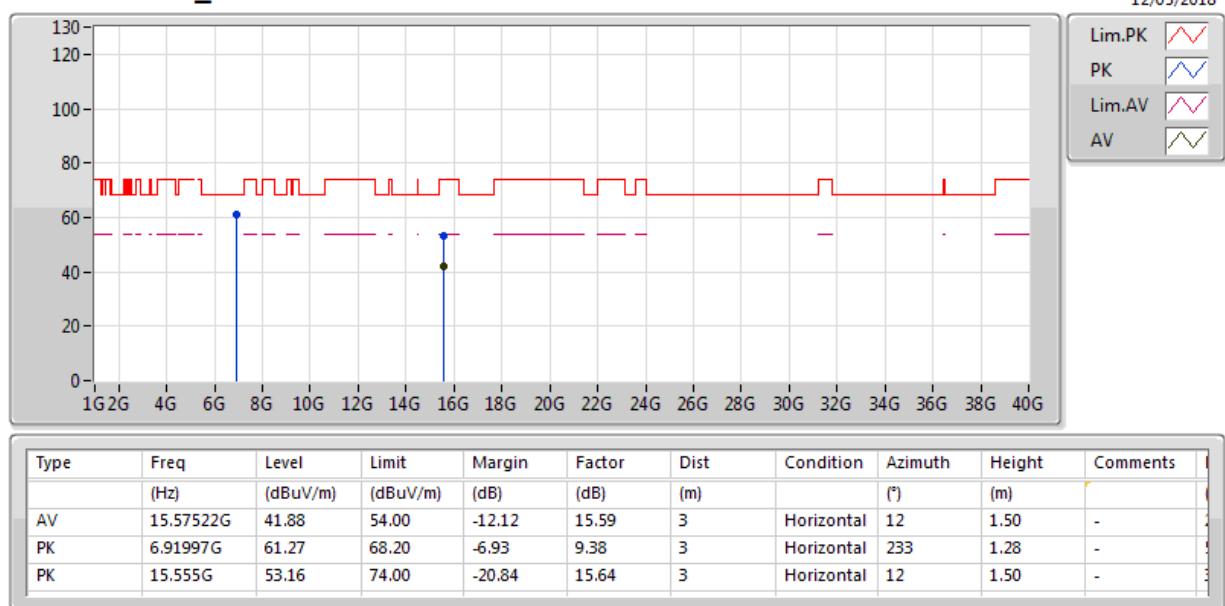
802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX



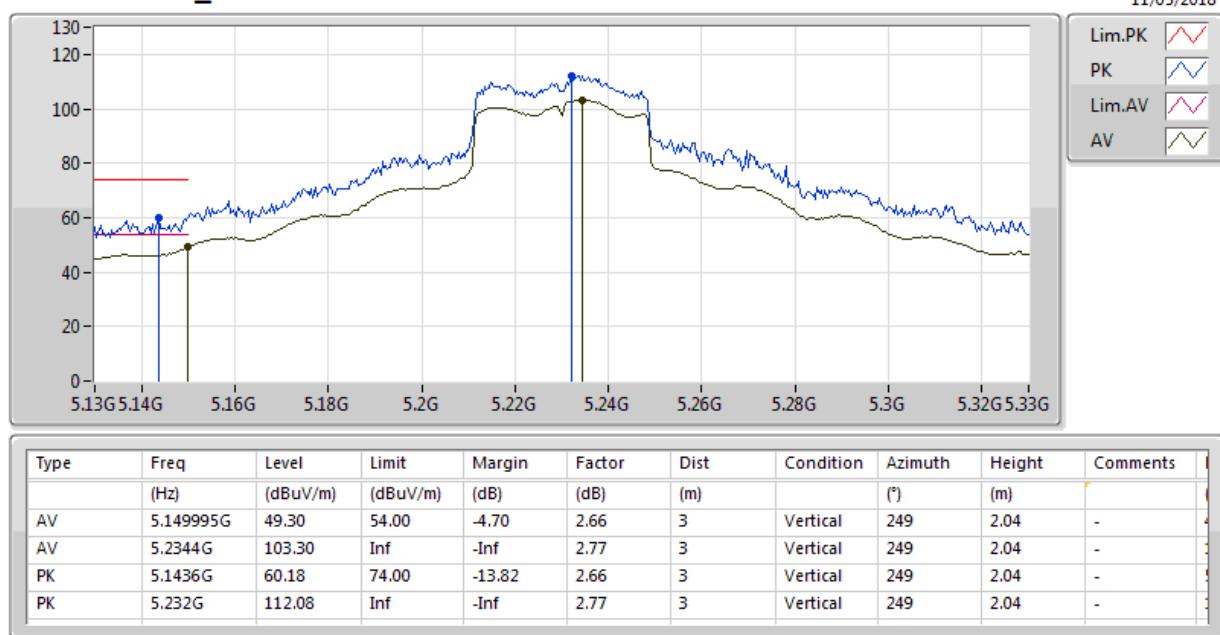
802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

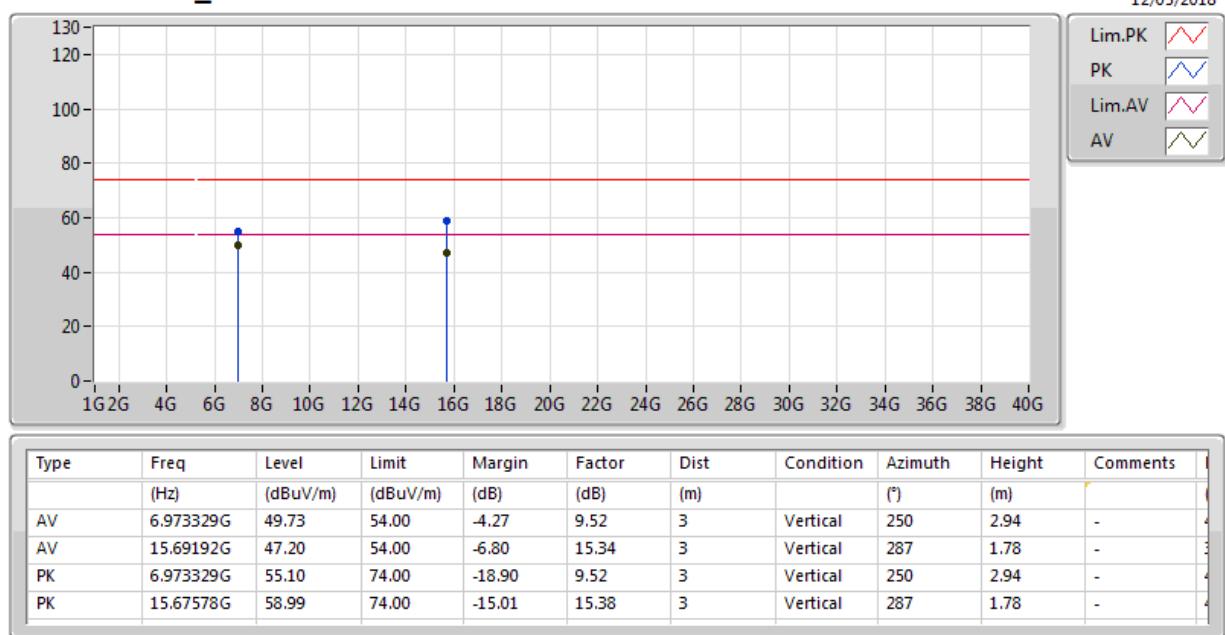


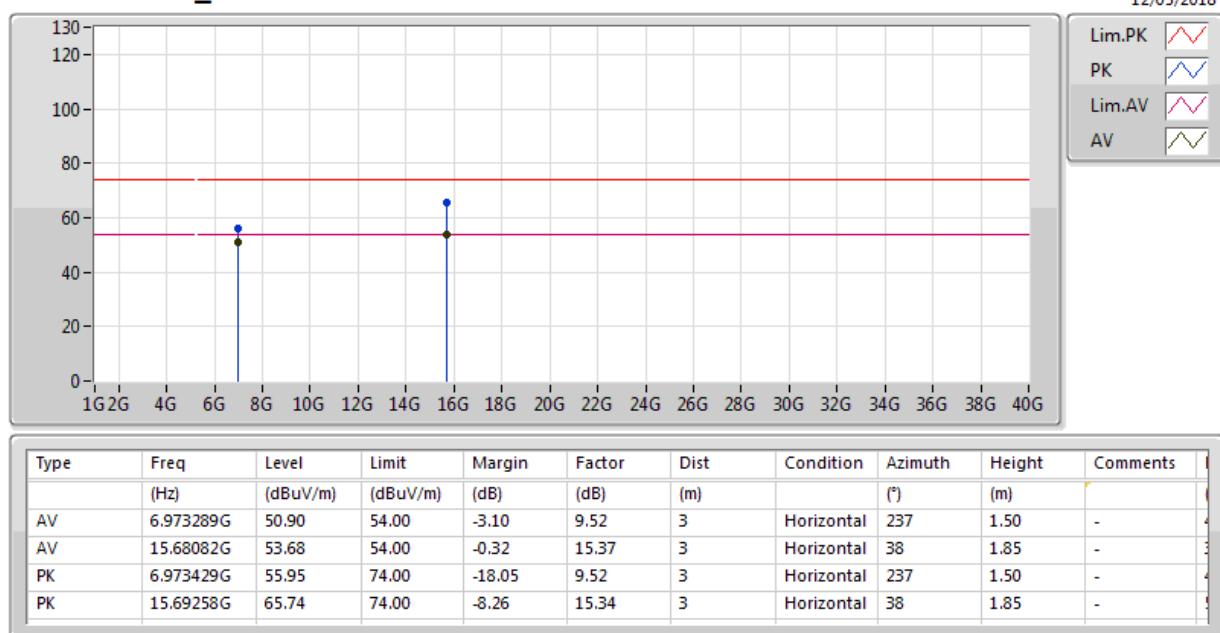
802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX



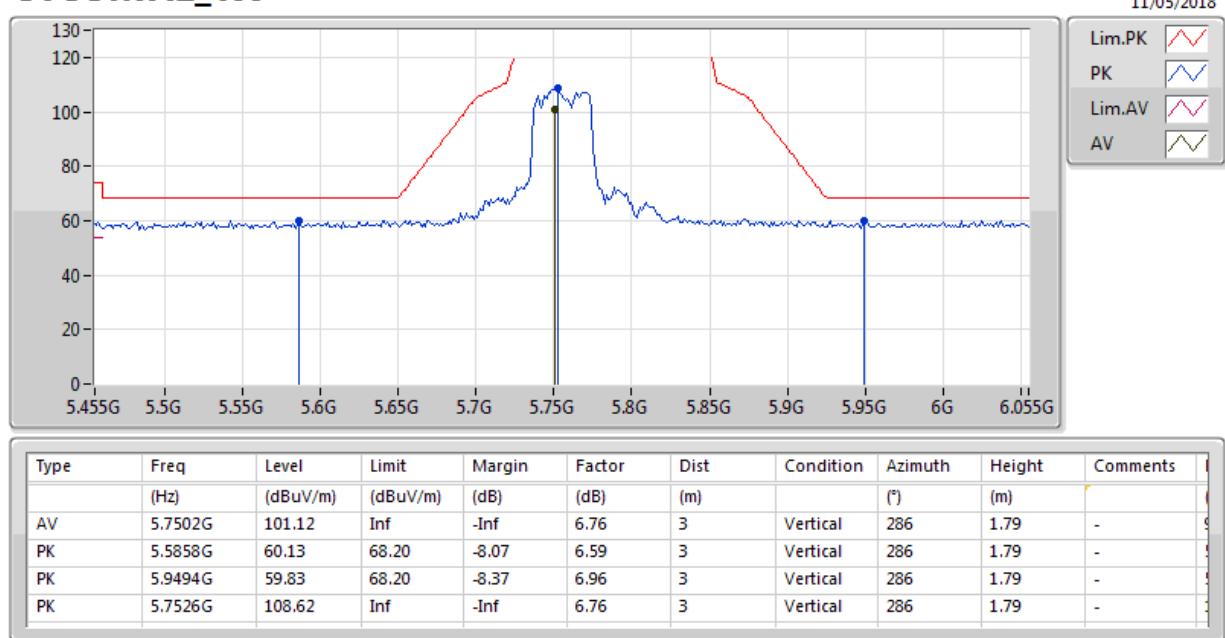
**802.11ac VHT40_Nss1,(MCS0)_2TX****5230MHz_TX**

**802.11ac VHT40_Nss1,(MCS0)_2TX****5230MHz_TX**

**802.11ac VHT40_Nss1,(MCS0)_2TX****5230MHz_TX**

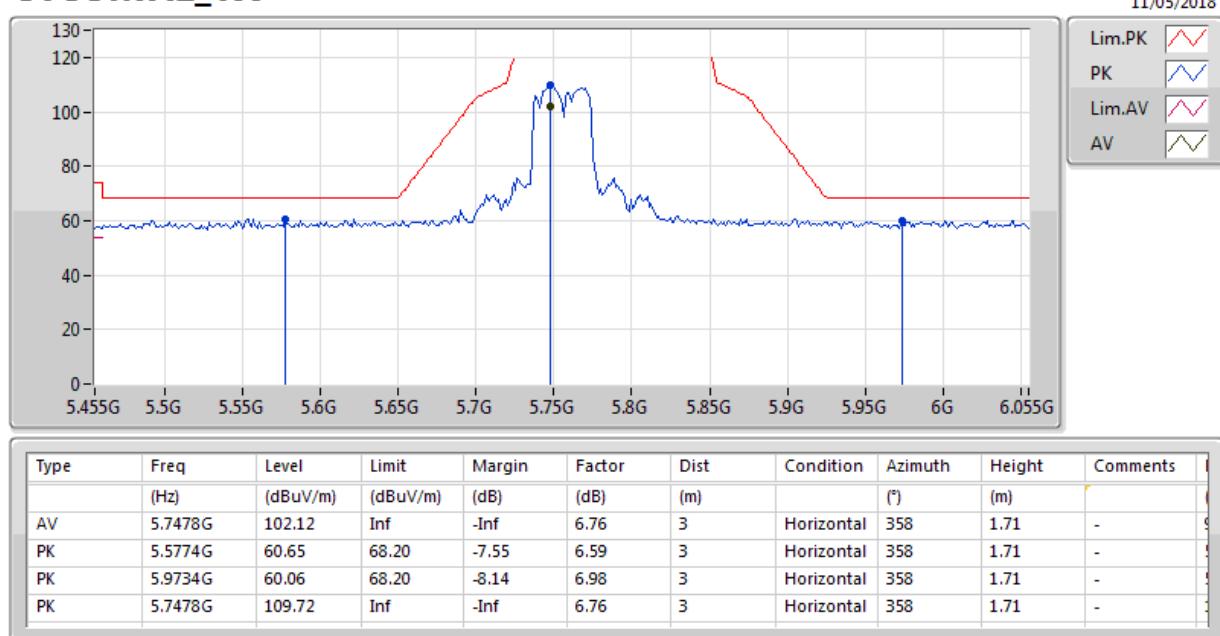
802.11ac VHT40_Nss1,(MCS0)_2TX

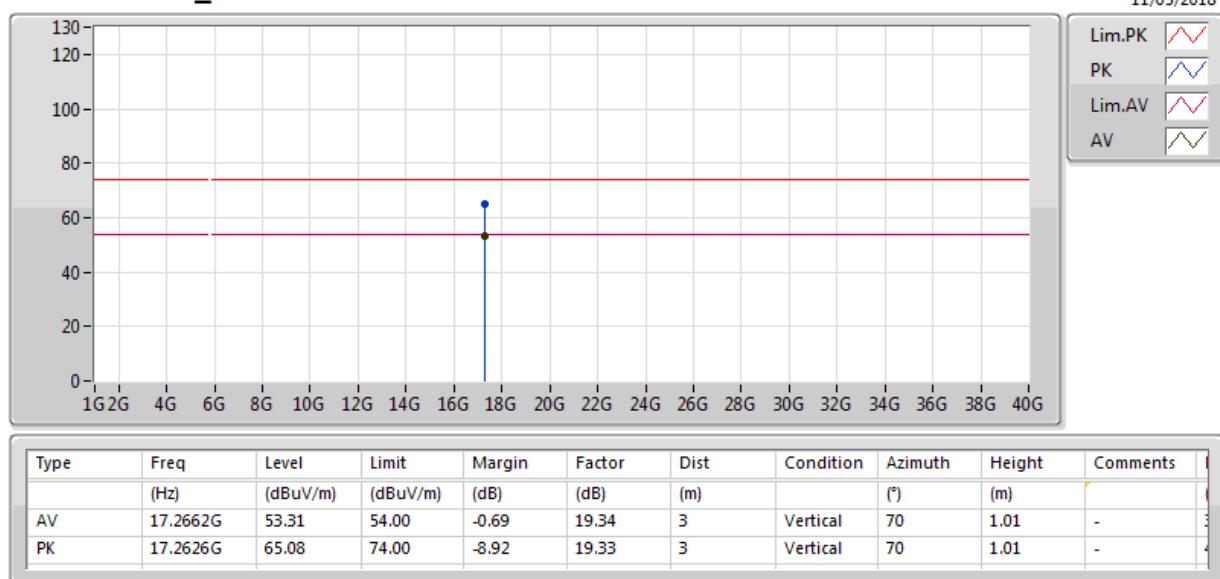
5755MHz_TX

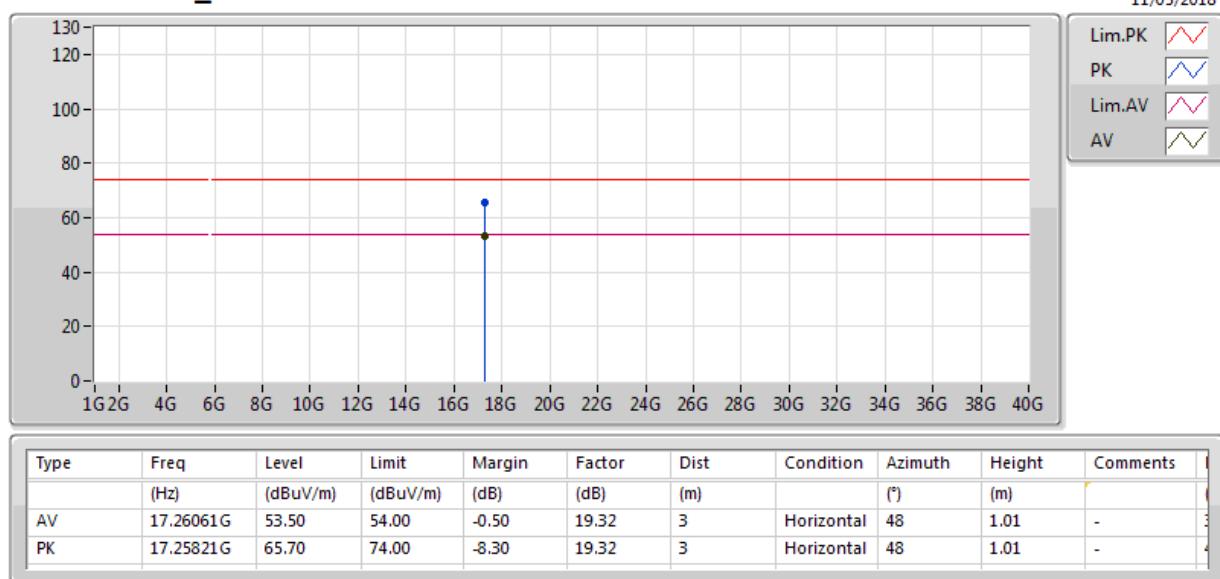


802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

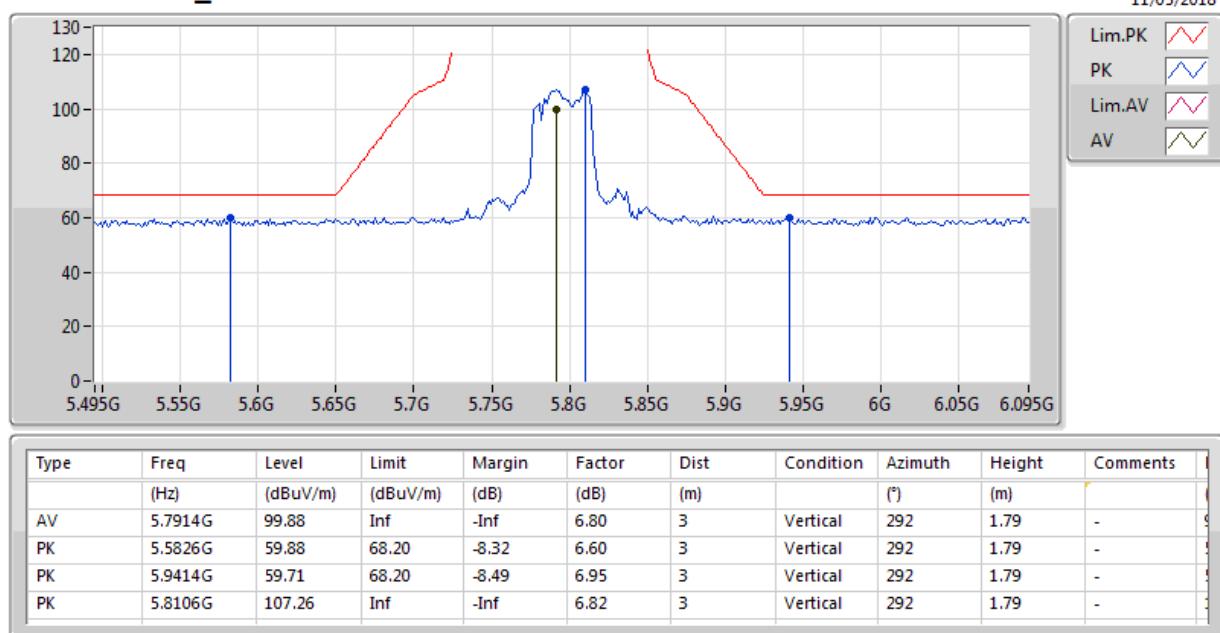


**802.11ac VHT40_Nss1,(MCS0)_2TX****5755MHz_TX**

**802.11ac VHT40_Nss1,(MCS0)_2TX****5755MHz_TX**

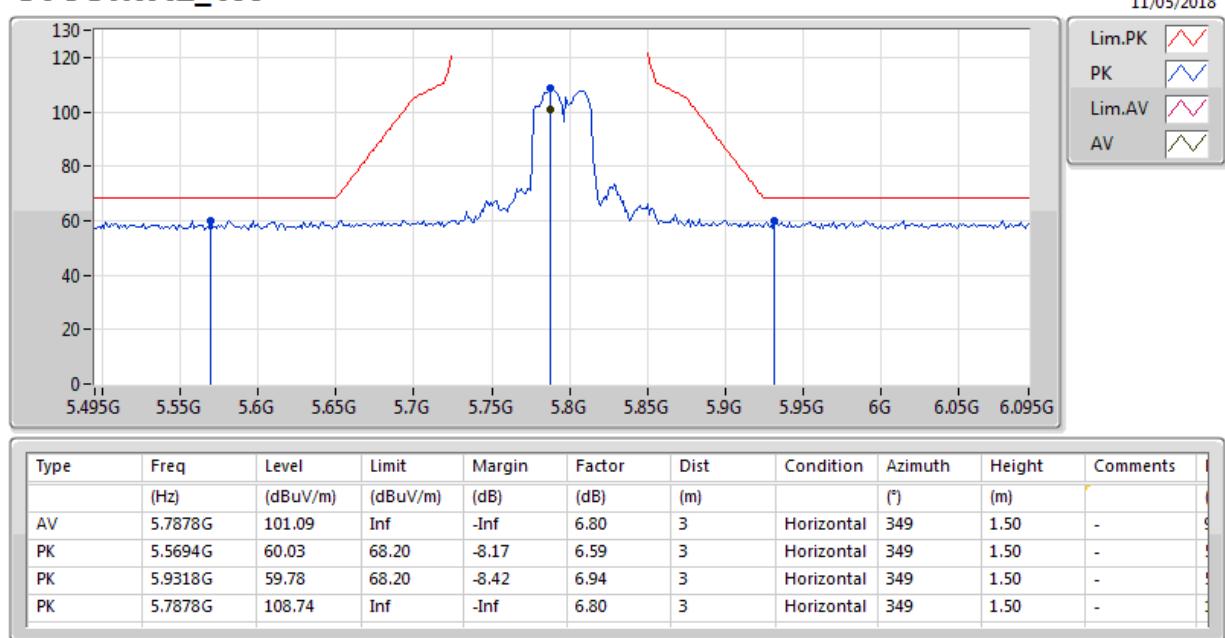
802.11ac VHT40_Nss1,(MCS0)_2TX

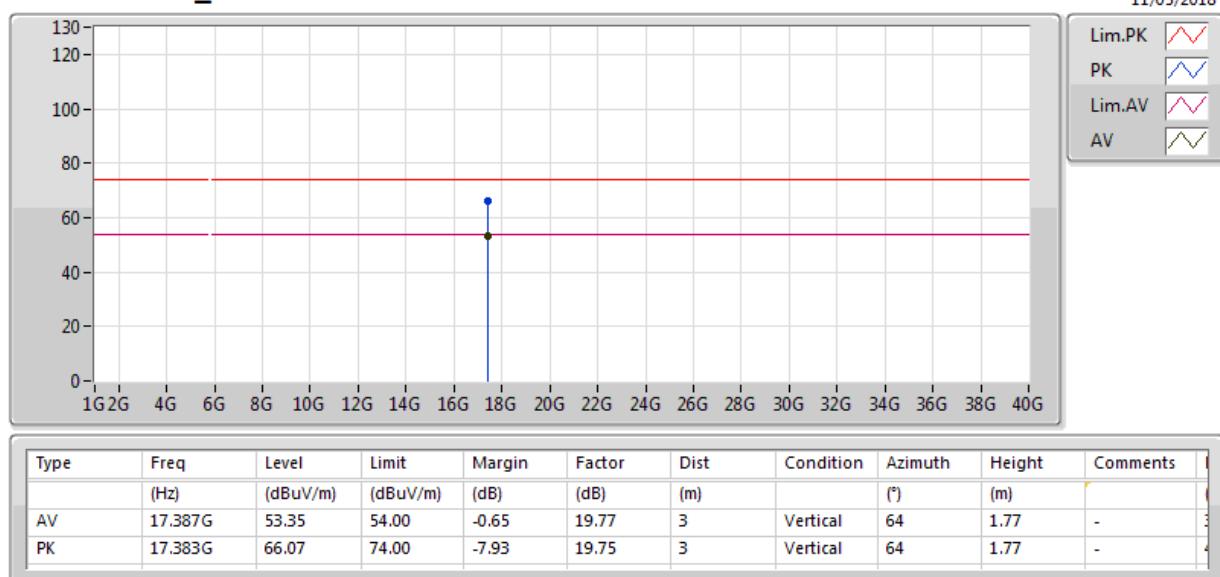
5795MHz_TX

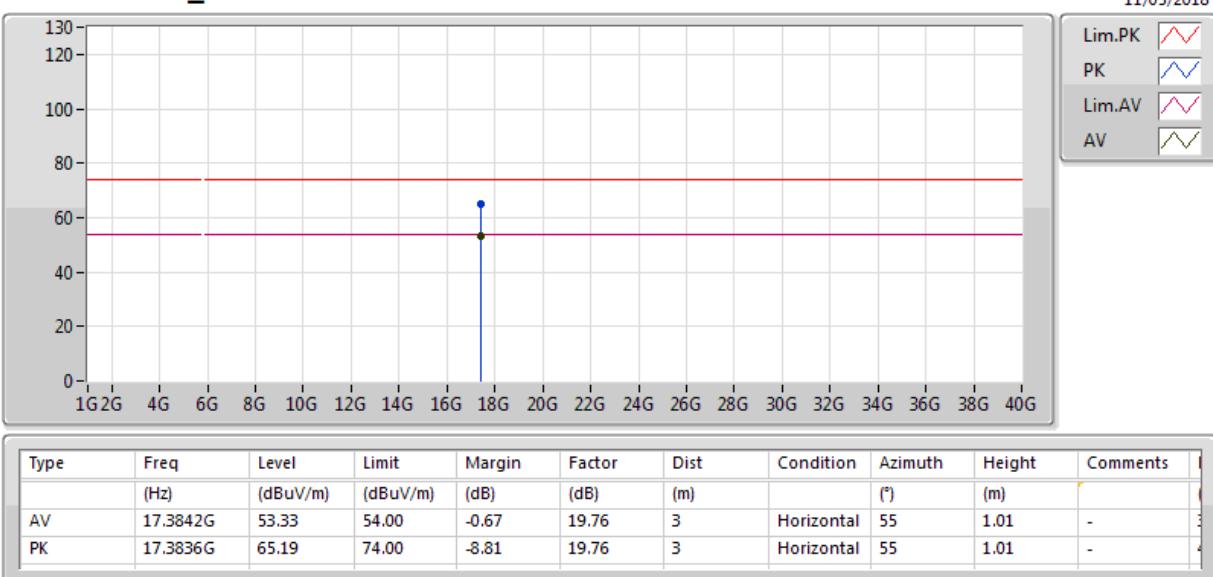


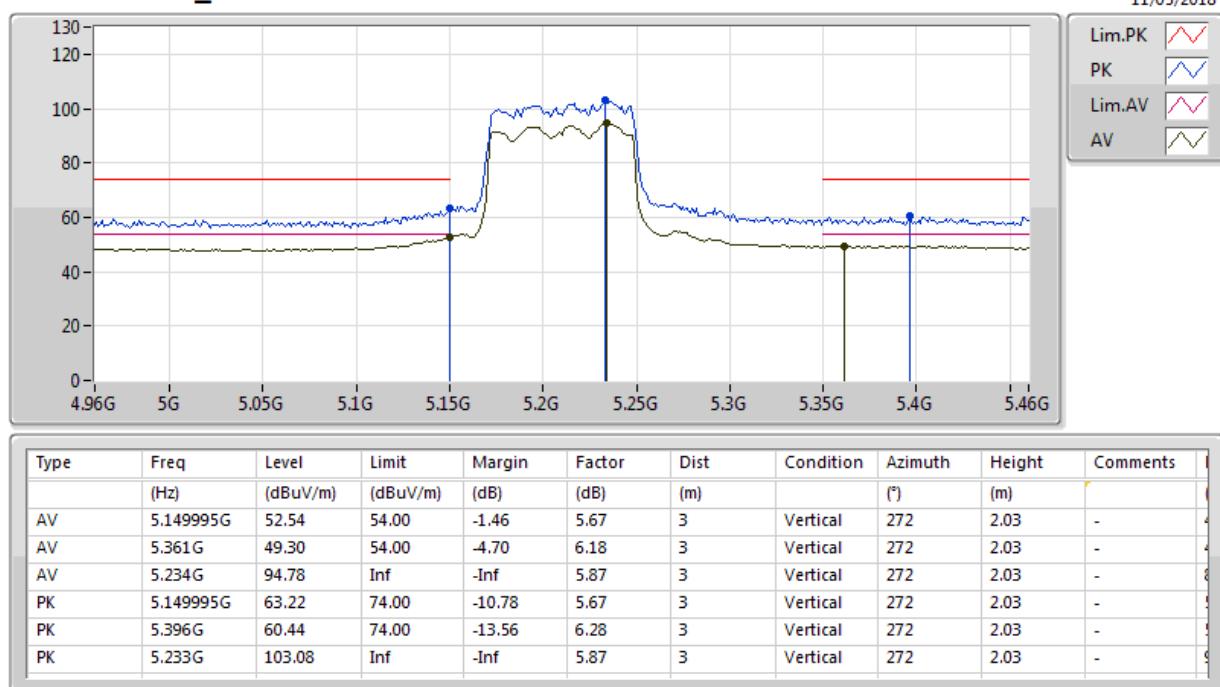
802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX



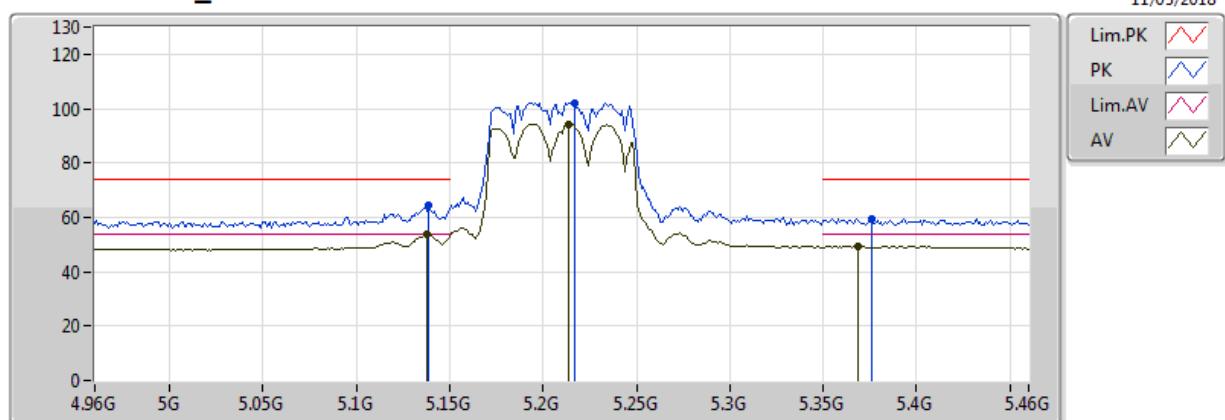
**802.11ac VHT40_Nss1,(MCS0)_2TX****5795MHz_TX**

**802.11ac VHT40_Nss1,(MCS0)_2TX****5795MHz_TX**

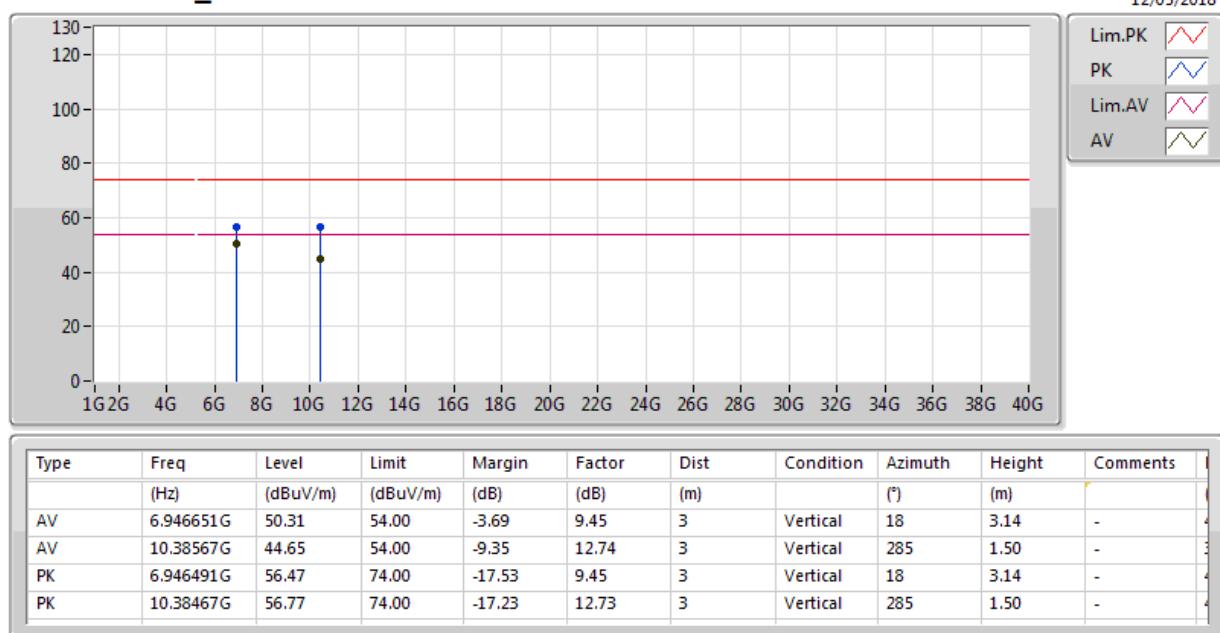
**802.11ac VHT80_Nss1,(MCS0)_2TX****5210MHz_TX**

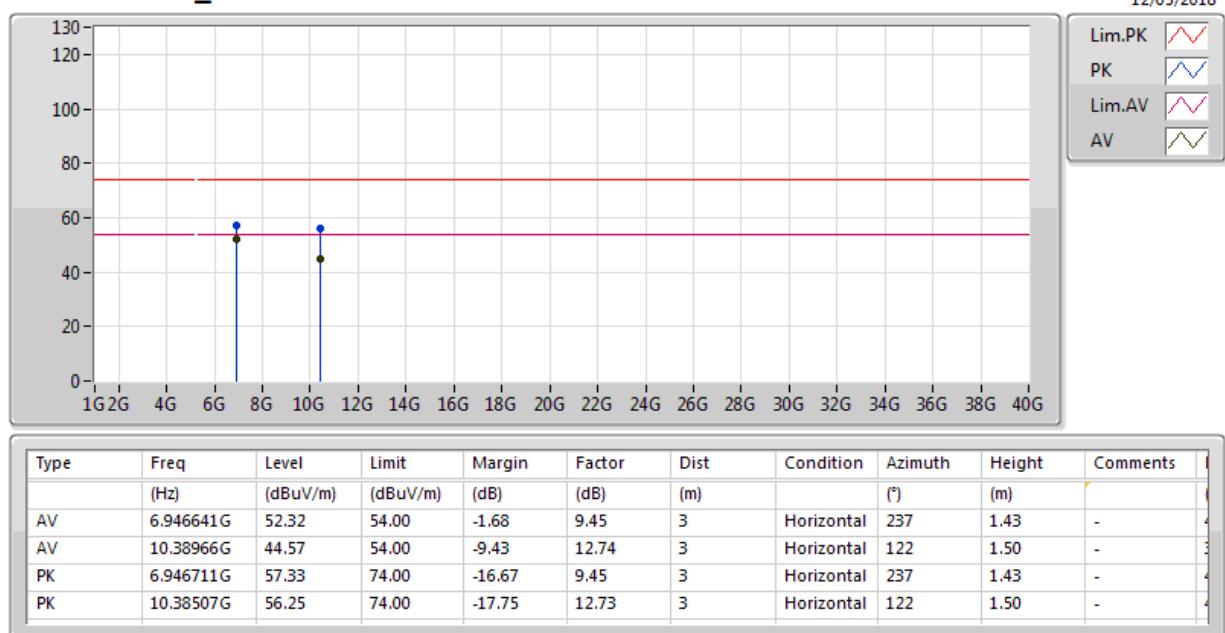
802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX



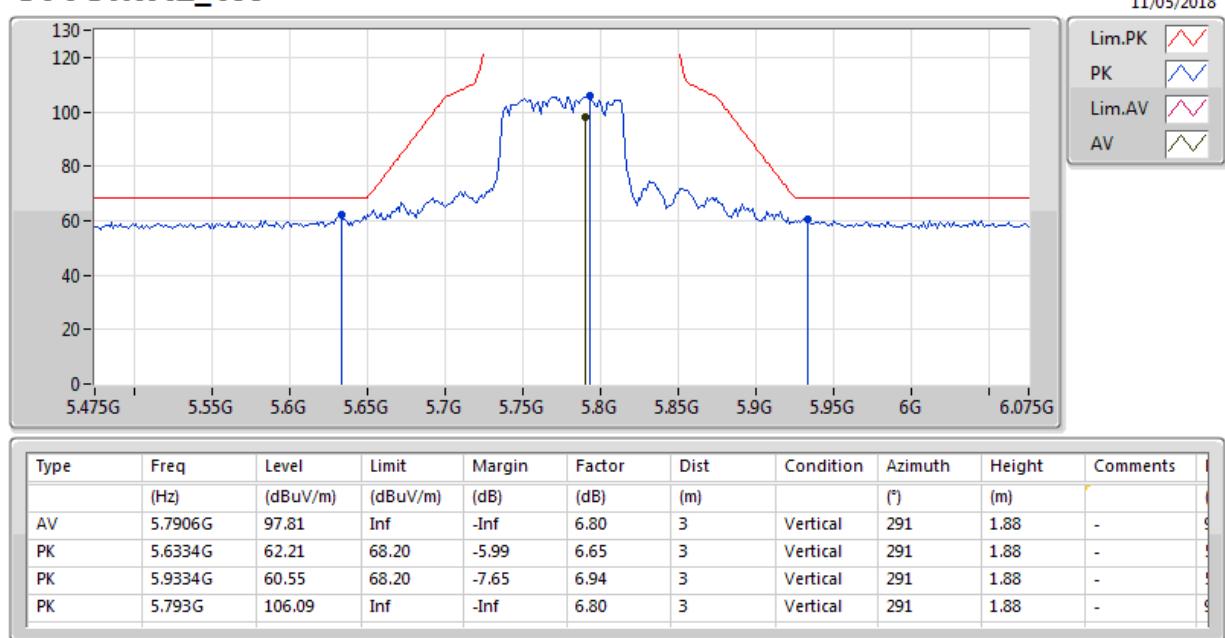
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.138G	53.73	54.00	-0.27	5.65	3	Horizontal	344	1.72	-
AV	5.369G	49.35	54.00	-4.65	6.20	3	Horizontal	344	1.72	-
AV	5.214G	94.10	Inf	-Inf	5.82	3	Horizontal	344	1.72	-
PK	5.139G	64.30	74.00	-9.70	5.65	3	Horizontal	344	1.72	-
PK	5.376G	59.66	74.00	-14.34	6.22	3	Horizontal	344	1.72	-
PK	5.217G	102.06	Inf	-Inf	5.83	3	Horizontal	344	1.72	-

**802.11ac VHT80_Nss1,(MCS0)_2TX****5210MHz_TX**

**802.11ac VHT80_Nss1,(MCS0)_2TX****5210MHz_TX**

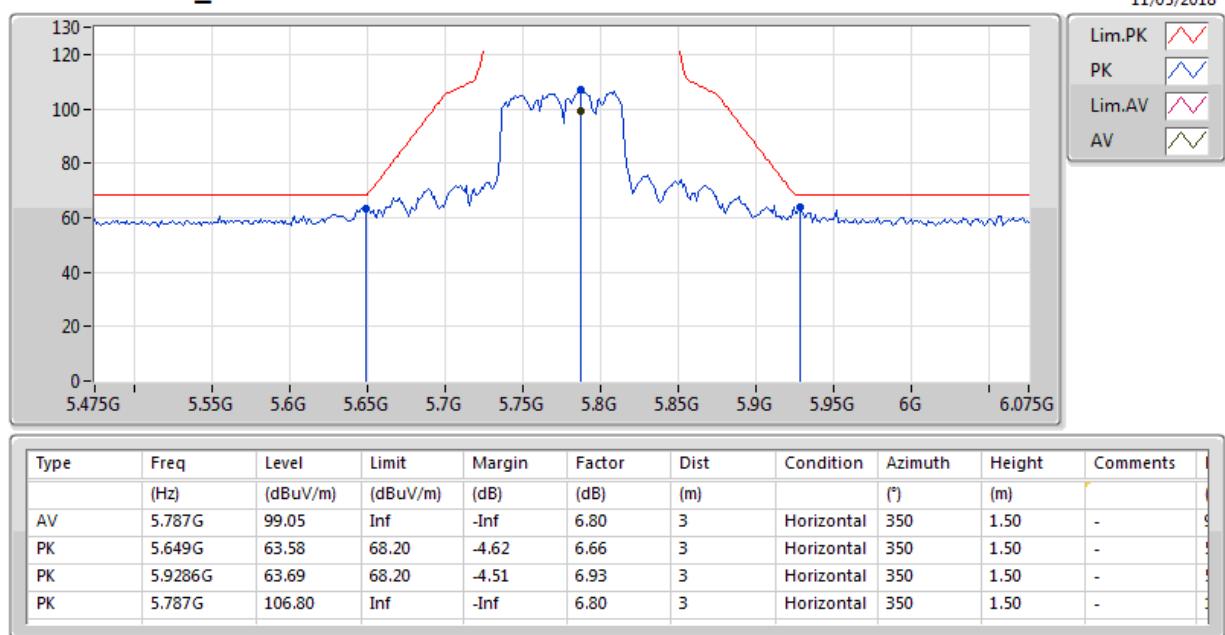
802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX



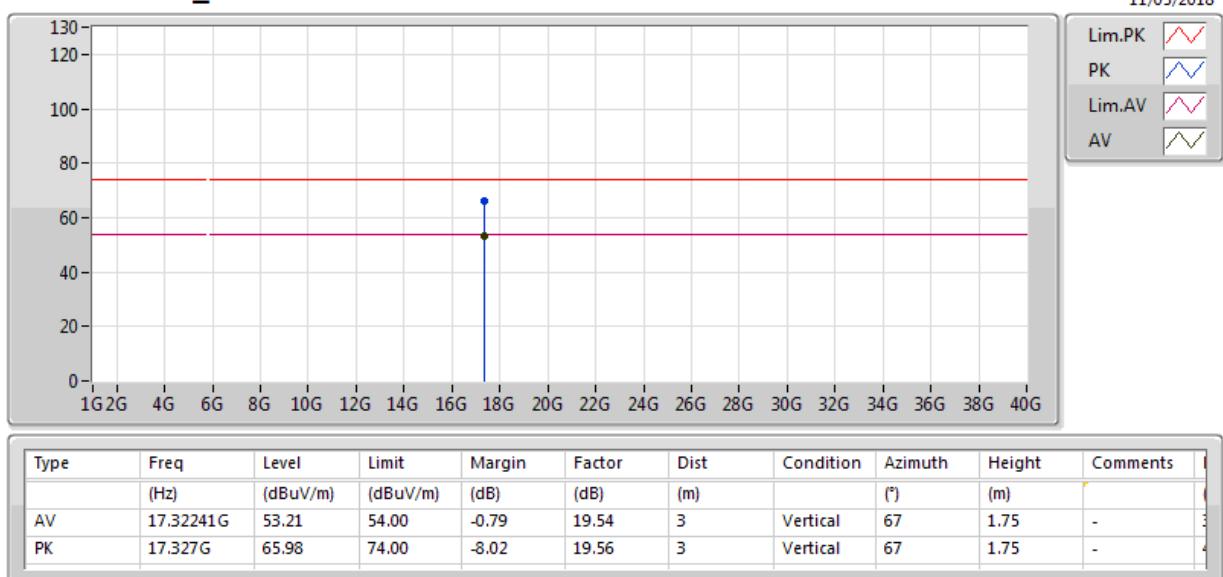
802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX



802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX



**802.11ac VHT80_Nss1,(MCS0)_2TX****5775MHz_TX**