



FCC RADIO TEST REPORT

FCC ID : 2ARF9CSG-W1
Equipment : Versa Wireless AP Module for Cloud Services Gateway Appliances
Brand Name : VERSA NETWORKS
Model Name : CSG-W1
Applicant : Versa Networks
6001 America Center Dr, 4th floor, Suite 400, San Jose, CA 95002, USA
Manufacturer : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu 308 Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 18, 2018, and testing was started from Sep. 19, 2018 and completed on Oct. 03, 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: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Photographs of EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR891203-01AB	01	Initial issue of report	Nov. 09, 2018



Summary of Test Result

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

Reviewed by: **Sam Chen**

Report Producer: **Vicky Huang**



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	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	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



1.1.2 Antenna Information

Ant.	Port	Brand	P/N	Antenna Type	Connector	cable color	Gain (dBi)
1	1	WIESON	GY121HT0330-016	Dipole Antenna	I-PEX	Gray	Note 1
2	2	WIESON	GY121HT0330-016	Dipole Antenna	I-PEX	Black	

Note 1:

Ant.	Port	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
		2.4G	5G	2.4G	5G	2.4G	5G
1	1	3.10	4.55	0.75	1.61	2.35	2.94
2	2	3.10	4.55	1.00	1.78	2.10	2.77

Note 2: The EUT has two antennas.

2.4GHz Functions

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

Port 1 and Port 2 could transmit/receive simultaneously.

5GHz Functions

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.994	0.026	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11g	0.963	0.164	2.068m	1k
802.11ac VHT20	0.983	0.074	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11ac VHT40	0.966	0.15	2.44m	1k

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/>	Without beamforming	
Function	<input type="checkbox"/> Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M	
	<input type="checkbox"/> Fixed P2P	<input type="checkbox"/>	Client	
Test Software Version	QCARCT v3.0.250.0			



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
- ◆ FCC KDB 789033 D02 v02r01
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input 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
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Caster Chang	20°C / 50%	Sep. 20, 2018~Oct. 01, 2018
Radiated	03CH01-CB	Stim Sung	22°C / 54%	Sep. 19, 2018~Oct. 03, 2018
AC Conduction	CO02-CB	GN Hou	23°C / 61%	Sep. 19, 2018

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	18.5
5200MHz	21.5
5240MHz	21.5
5745MHz	25
5785MHz	25
5825MHz	21.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	19.5
5200MHz	22.5
5240MHz	21.5
5745MHz	25
5785MHz	25
5825MHz	21.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17
5230MHz	20.5
5755MHz	22
5795MHz	25
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	18
5775MHz	20

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.



2.2 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	Normal Link
1	EUT

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	Normal Link
1	Place EUT in Z axis
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position. The worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	
1	Place EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Place EUT in Z axis - WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA891203-01 for Co-location RF Exposure Evaluation.	

Note : The Adapter below is for measurement only, would not be marketed.
 The Adapter information as below:

Support Unit	Brand	Model Number
Adapter	I.T.E	F24W5-120200SPAU

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: C002-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E6430	N/A
2	Fixture	WNC	48RAAAA2.SGA	N/A
3	Adapter	I.T.E	F24W5-120200SPAU	N/A

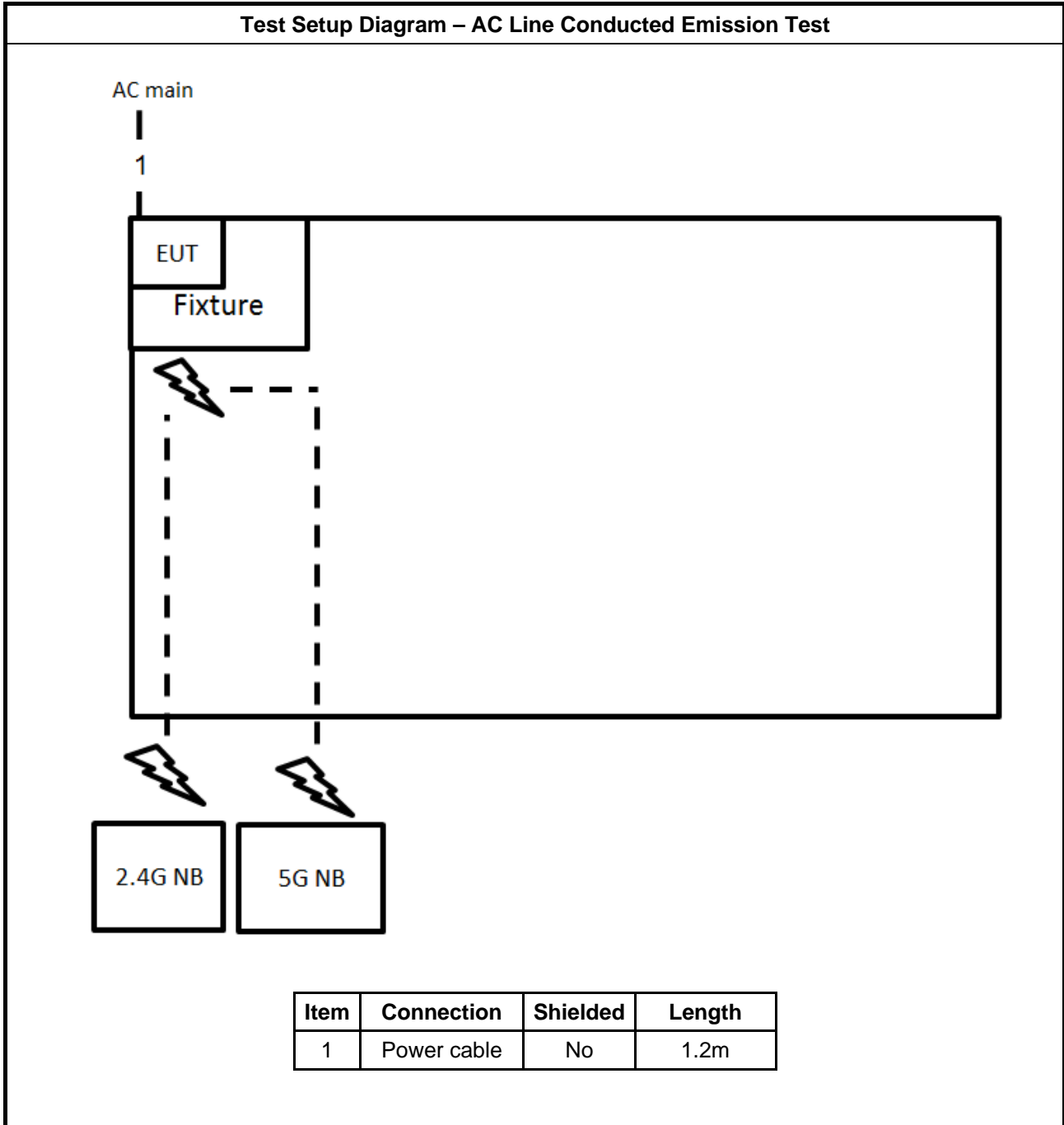
For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	N/A
2	Fixture	WNC	48RAAAA2.SGA	N/A
3	Adapter	I.T.E	F24W5-120200SPAU	N/A

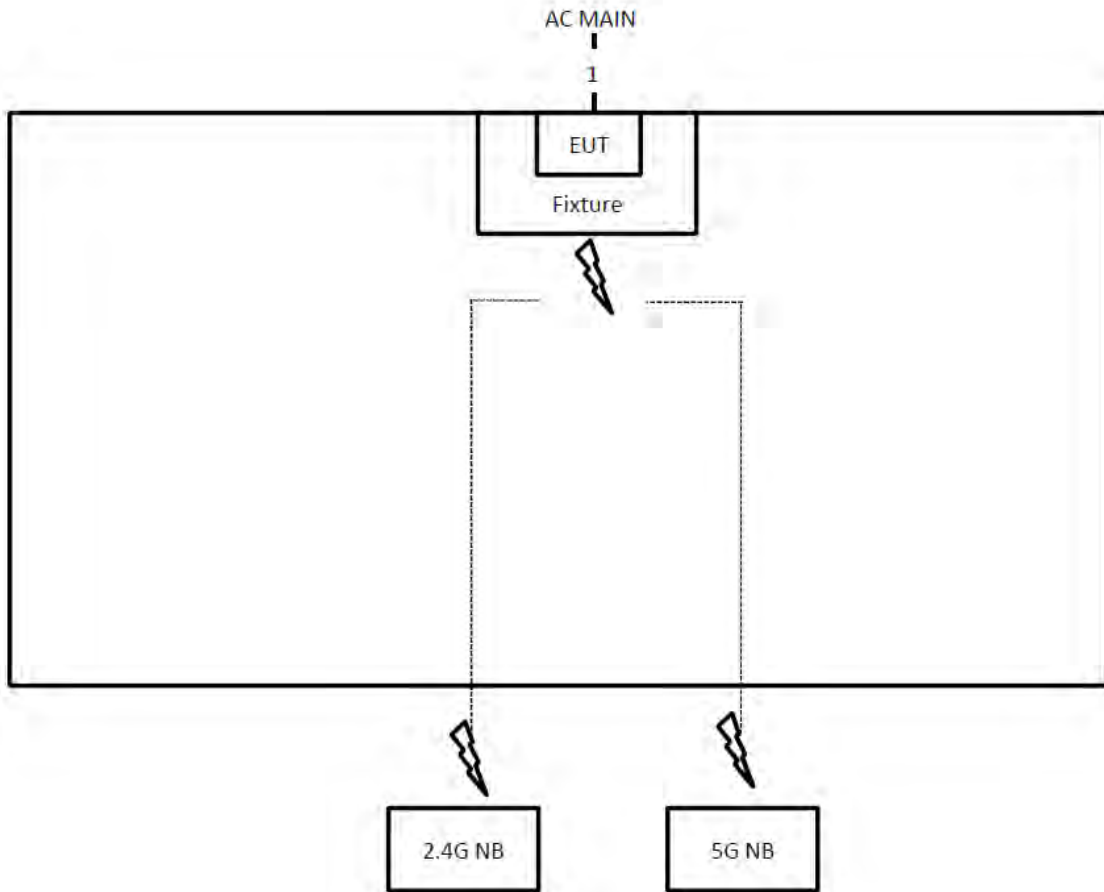
For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A
2	Fixture	WNC	48RAAAA2.SGA	N/A
3	Adapter	I.T.E	F24W5-120200SPAU	N/A

2.6 Test Setup Diagram



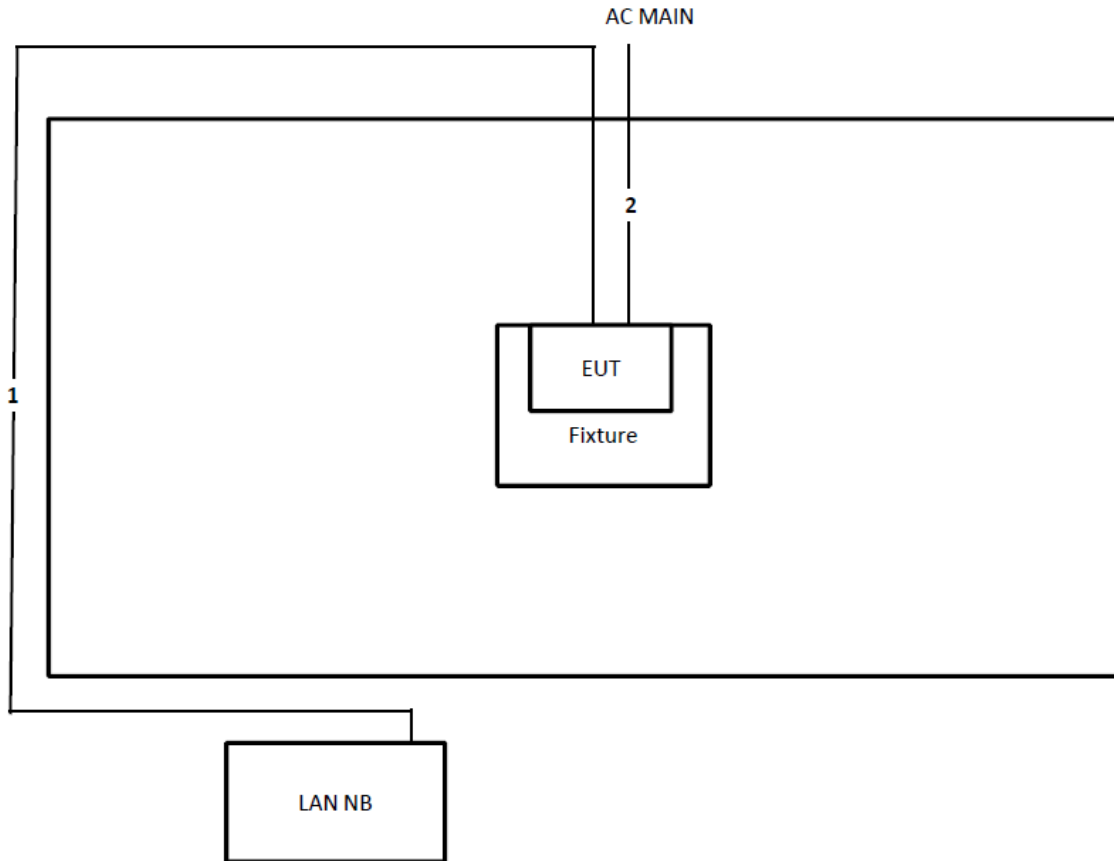
Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.2m



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.2m



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.

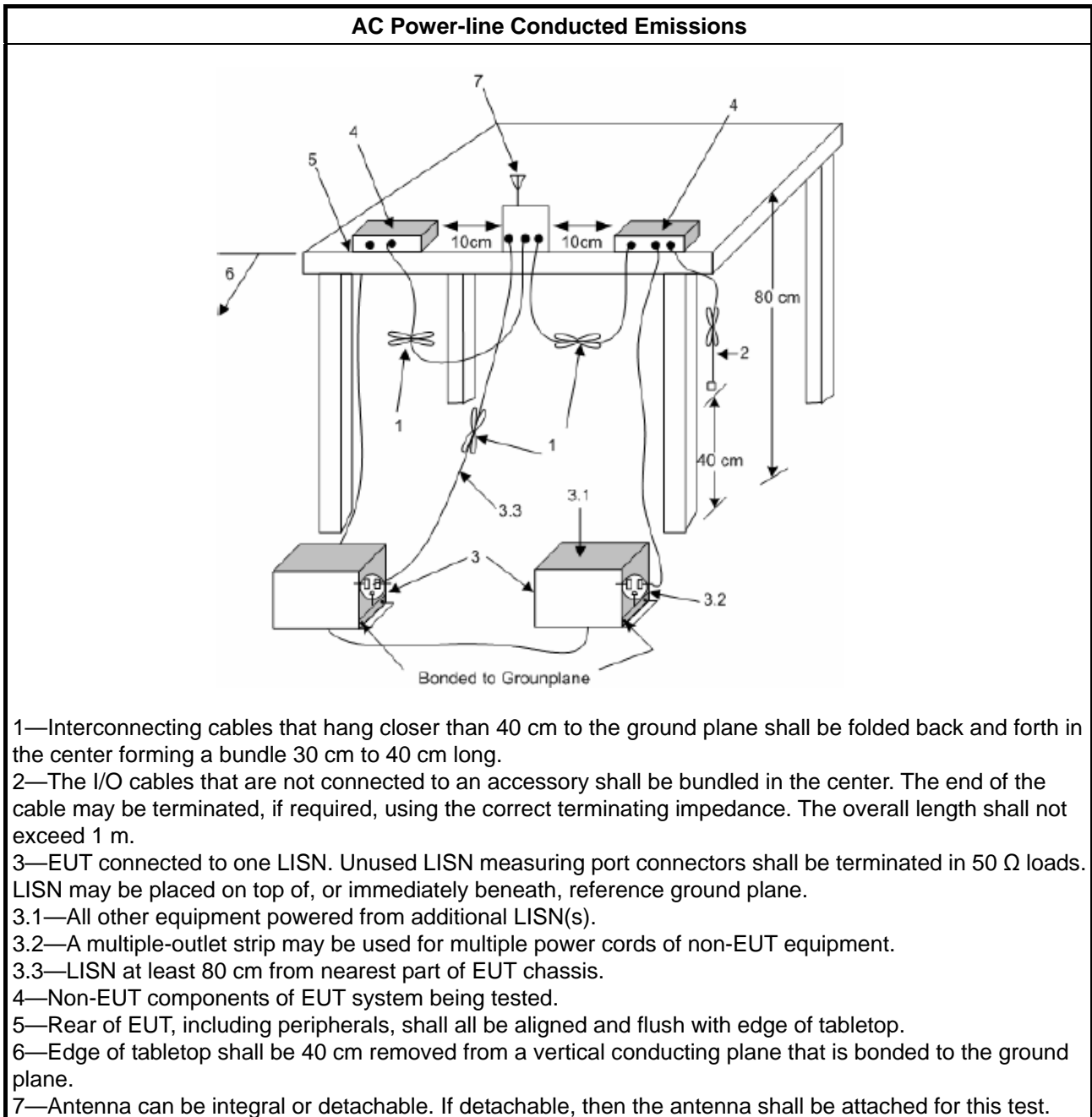
3.1.2 Measuring Instruments

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.
LE-LAN Devices	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

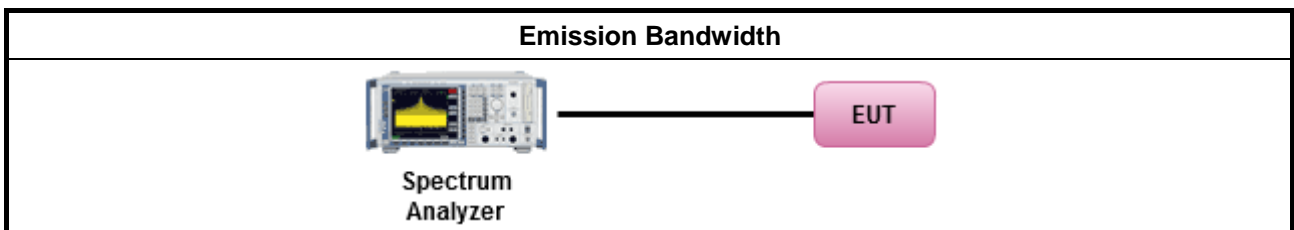
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> 		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm] Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<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 $G_{TX} > 6$ 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 $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<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 $G_{TX} > 6$ 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.
LE-LAN Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<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 $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

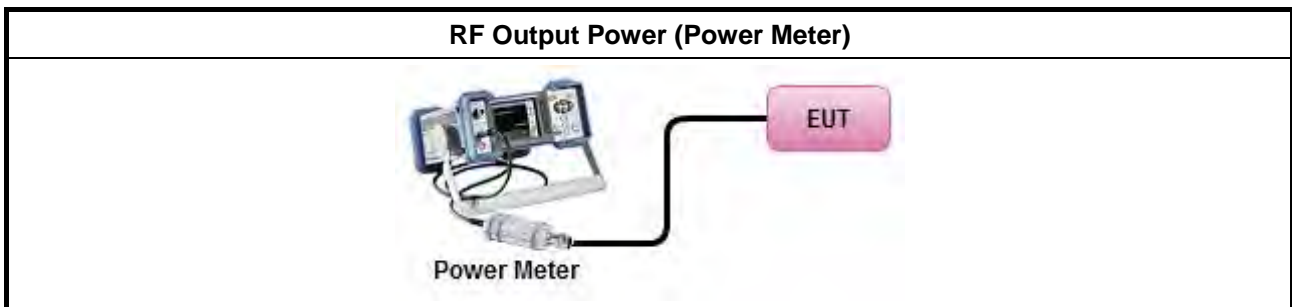
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
Average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC 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 FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC 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. 	
<ul style="list-style-type: none"> ▪ 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.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	<ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input 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.
<p>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.</p>	



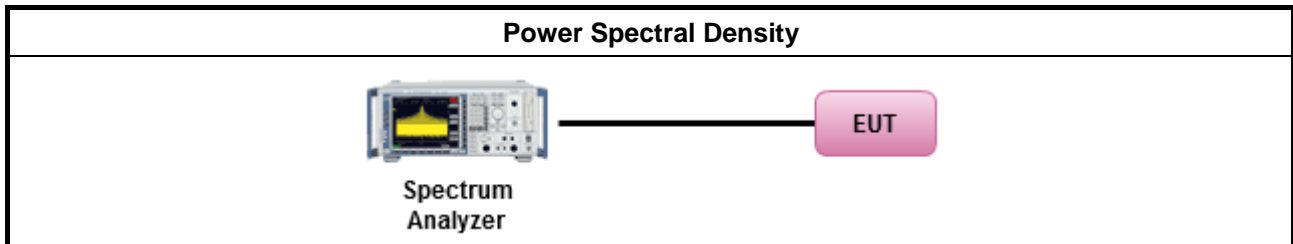
3.4.2 Measuring Instruments

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: 	
<input type="checkbox"/>	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC 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"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input checked="" type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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).

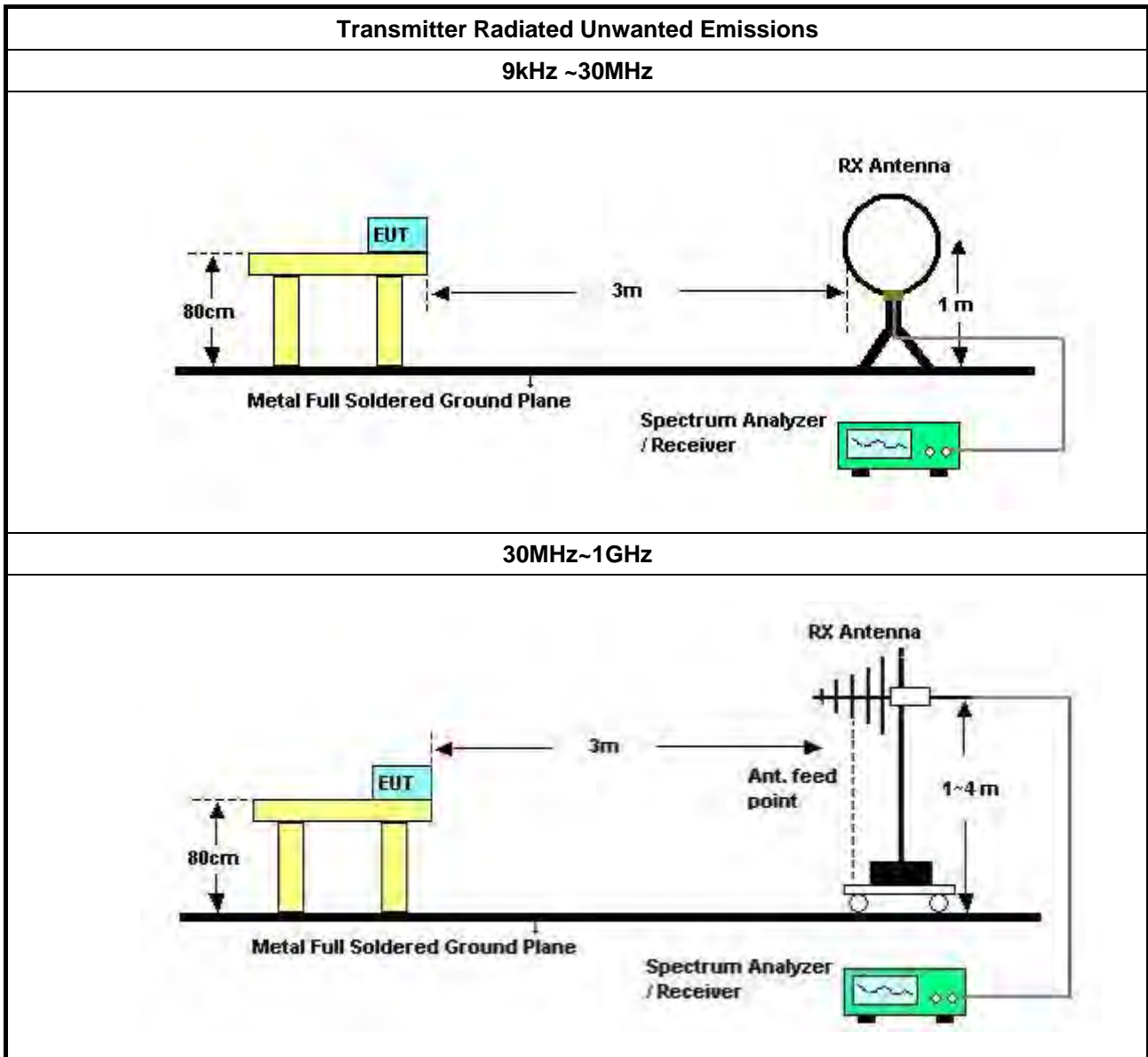
3.5.2 Measuring Instruments

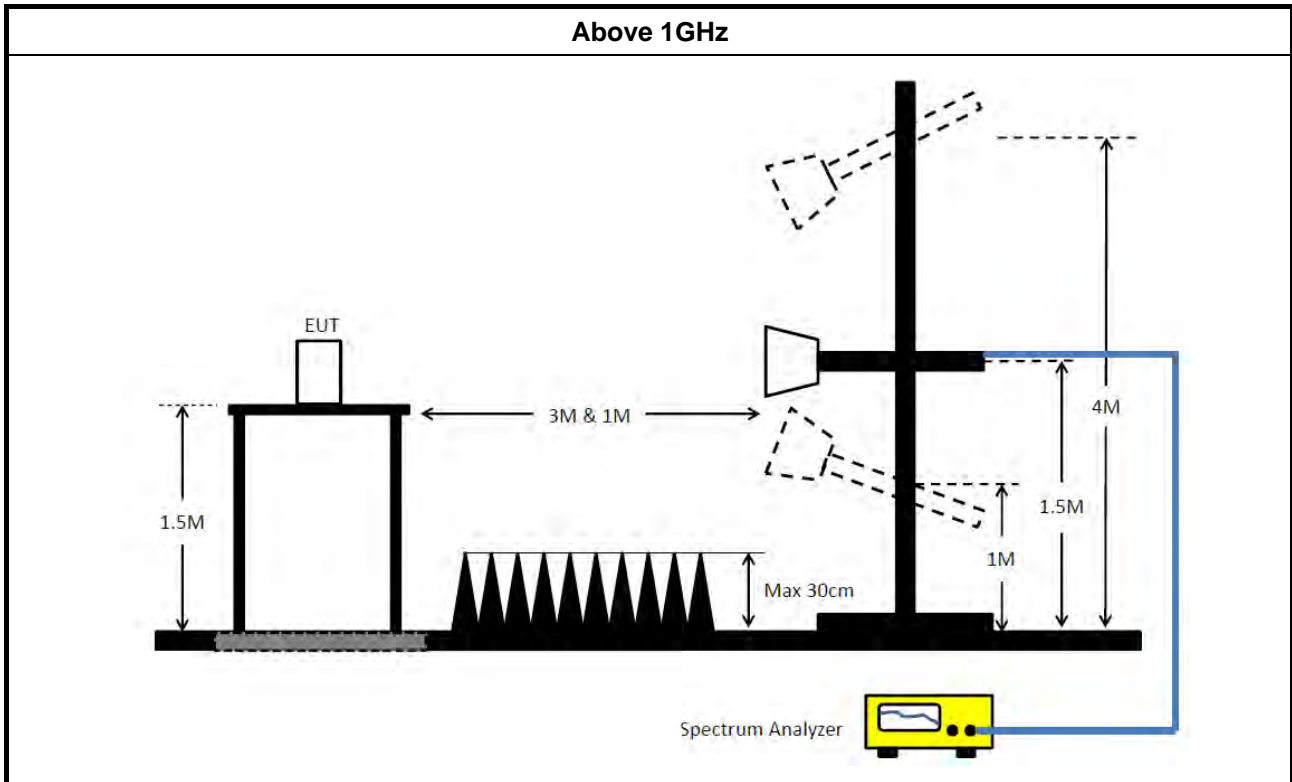
Refer a test equipment and calibration data table in this test report.

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 ≥ 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 FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands. ▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging). <input checked="" type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW). <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	<ul style="list-style-type: none"> ▪ For radiated measurement. <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)

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 24, 2017	Nov. 23, 2018	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2017	Nov. 12, 2018	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 2019	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 10, 2017	Nov. 09, 2018	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

Appendix A

AC Power-line Conducted Emissions Result																																																																																																																																															
Operating Mode	1	Power Phase	Neutral																																																																																																																																												
Operating Function	Normal Link																																																																																																																																														
<p>The graph displays the AC power-line conducted emissions. The y-axis represents Level in dBuV (0 to 80), and the x-axis represents Frequency in MHz (0.1502 to 30). Two red lines indicate the CISPR limits: CISPR_B_QP (Quasi-Peak) and CISPR_B_AV (Average). The blue line shows the measured emission levels. Several peaks are marked with numbers 1 through 12, corresponding to the data table below.</p>																																																																																																																																															
<table border="1"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> <th>Pol/Phase</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.1500</td> <td>37.43</td> <td>-18.57</td> <td>56.00</td> <td>27.25</td> <td>10.17</td> <td>0.01</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>2</td> <td>0.1500</td> <td>50.62</td> <td>-15.38</td> <td>66.00</td> <td>40.44</td> <td>10.17</td> <td>0.01</td> <td>QP</td> <td>NEUTRAL</td> </tr> <tr> <td>3</td> <td>0.1590</td> <td>37.15</td> <td>-18.37</td> <td>55.52</td> <td>26.97</td> <td>10.17</td> <td>0.01</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>4</td> <td>0.1590</td> <td>49.72</td> <td>-15.80</td> <td>65.52</td> <td>39.54</td> <td>10.17</td> <td>0.01</td> <td>QP</td> <td>NEUTRAL</td> </tr> <tr> <td>5</td> <td>0.1712</td> <td>35.81</td> <td>-19.09</td> <td>54.90</td> <td>25.63</td> <td>10.17</td> <td>0.01</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>6</td> <td>0.1712</td> <td>47.55</td> <td>-17.35</td> <td>64.90</td> <td>37.37</td> <td>10.17</td> <td>0.01</td> <td>QP</td> <td>NEUTRAL</td> </tr> <tr> <td>7</td> <td>0.3428</td> <td>31.50</td> <td>-17.63</td> <td>49.13</td> <td>21.31</td> <td>10.17</td> <td>0.02</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>8</td> <td>0.3428</td> <td>38.23</td> <td>-20.90</td> <td>59.13</td> <td>28.04</td> <td>10.17</td> <td>0.02</td> <td>QP</td> <td>NEUTRAL</td> </tr> <tr> <td>9</td> <td>0.6613</td> <td>26.92</td> <td>-19.08</td> <td>46.00</td> <td>16.71</td> <td>10.18</td> <td>0.03</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>10</td> <td>0.6613</td> <td>33.85</td> <td>-22.15</td> <td>56.00</td> <td>23.64</td> <td>10.18</td> <td>0.03</td> <td>QP</td> <td>NEUTRAL</td> </tr> <tr> <td>11</td> <td>14.5171</td> <td>25.03</td> <td>-24.97</td> <td>50.00</td> <td>14.57</td> <td>10.36</td> <td>0.10</td> <td>Average</td> <td>NEUTRAL</td> </tr> <tr> <td>12</td> <td>14.5171</td> <td>31.43</td> <td>-28.57</td> <td>60.00</td> <td>20.97</td> <td>10.36</td> <td>0.10</td> <td>QP</td> <td>NEUTRAL</td> </tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase		MHz	dBuV	dB	dBuV	dBuV	dB	dB			1	0.1500	37.43	-18.57	56.00	27.25	10.17	0.01	Average	NEUTRAL	2	0.1500	50.62	-15.38	66.00	40.44	10.17	0.01	QP	NEUTRAL	3	0.1590	37.15	-18.37	55.52	26.97	10.17	0.01	Average	NEUTRAL	4	0.1590	49.72	-15.80	65.52	39.54	10.17	0.01	QP	NEUTRAL	5	0.1712	35.81	-19.09	54.90	25.63	10.17	0.01	Average	NEUTRAL	6	0.1712	47.55	-17.35	64.90	37.37	10.17	0.01	QP	NEUTRAL	7	0.3428	31.50	-17.63	49.13	21.31	10.17	0.02	Average	NEUTRAL	8	0.3428	38.23	-20.90	59.13	28.04	10.17	0.02	QP	NEUTRAL	9	0.6613	26.92	-19.08	46.00	16.71	10.18	0.03	Average	NEUTRAL	10	0.6613	33.85	-22.15	56.00	23.64	10.18	0.03	QP	NEUTRAL	11	14.5171	25.03	-24.97	50.00	14.57	10.36	0.10	Average	NEUTRAL	12	14.5171	31.43	-28.57	60.00	20.97	10.36	0.10	QP	NEUTRAL
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AC Power-line Conducted Emissions Result

Appendix A

AC Power-line Conducted Emissions Result									
Operating Mode	1	Power Phase	Line						
Operating Function	Normal Link								
<p>The graph displays the AC power-line conducted emissions. The y-axis represents Level in dBuV (0 to 80), and the x-axis represents Frequency in MHz (0.1502 to 30). Two red lines indicate the CISPR limits: CISPR_B_QP (Quasi-Peak) and CISPR_B_AV (Average). The blue line shows the measured emission levels. Several peaks are marked with vertical lines and numbers 1 through 12, corresponding to the data table below.</p>									
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	37.40	-18.60	56.00	27.23	10.16	0.01	Average	LINE
2	0.1500	50.49	-15.51	66.00	40.32	10.16	0.01	QP	LINE
3	0.1633	36.87	-18.43	55.30	26.70	10.16	0.01	Average	LINE
4	0.1633	49.51	-15.79	65.30	39.34	10.16	0.01	QP	LINE
5	0.1712	35.72	-19.18	54.90	25.55	10.16	0.01	Average	LINE
6	0.1712	47.49	-17.41	64.90	37.32	10.16	0.01	QP	LINE
7	0.3338	31.60	-17.75	49.35	21.42	10.16	0.02	Average	LINE
8	0.3338	38.39	-20.96	59.35	28.21	10.16	0.02	QP	LINE
9	0.6075	27.39	-18.61	46.00	17.20	10.16	0.03	Average	LINE
10	0.6075	33.98	-22.02	56.00	23.79	10.16	0.03	QP	LINE
11	14.9860	24.91	-25.09	50.00	14.44	10.37	0.10	Average	LINE
12	14.9860	31.53	-28.47	60.00	21.06	10.37	0.10	QP	LINE

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)_2TX	39.75M	18.041M	18M0D1D	20.6M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	45.525M	24.688M	24M7D1D	27.05M	17.641M
802.11ac VHT40_Nss1,(MCS0)_2TX	80.55M	36.732M	36M7D1D	39.7M	35.982M
802.11ac VHT80_Nss1,(MCS0)_2TX	84.8M	75.8M	75M8D1D	83.3M	75.7M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.3M	31.634M	31M6D1D	15.075M	21.339M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	33.783M	33M8D1D	16.15M	21.514M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.3M	62.319M	62M3D1D	32.8M	53.223M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.1M	76.162M	76M2D1D	73.8M	76.062M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



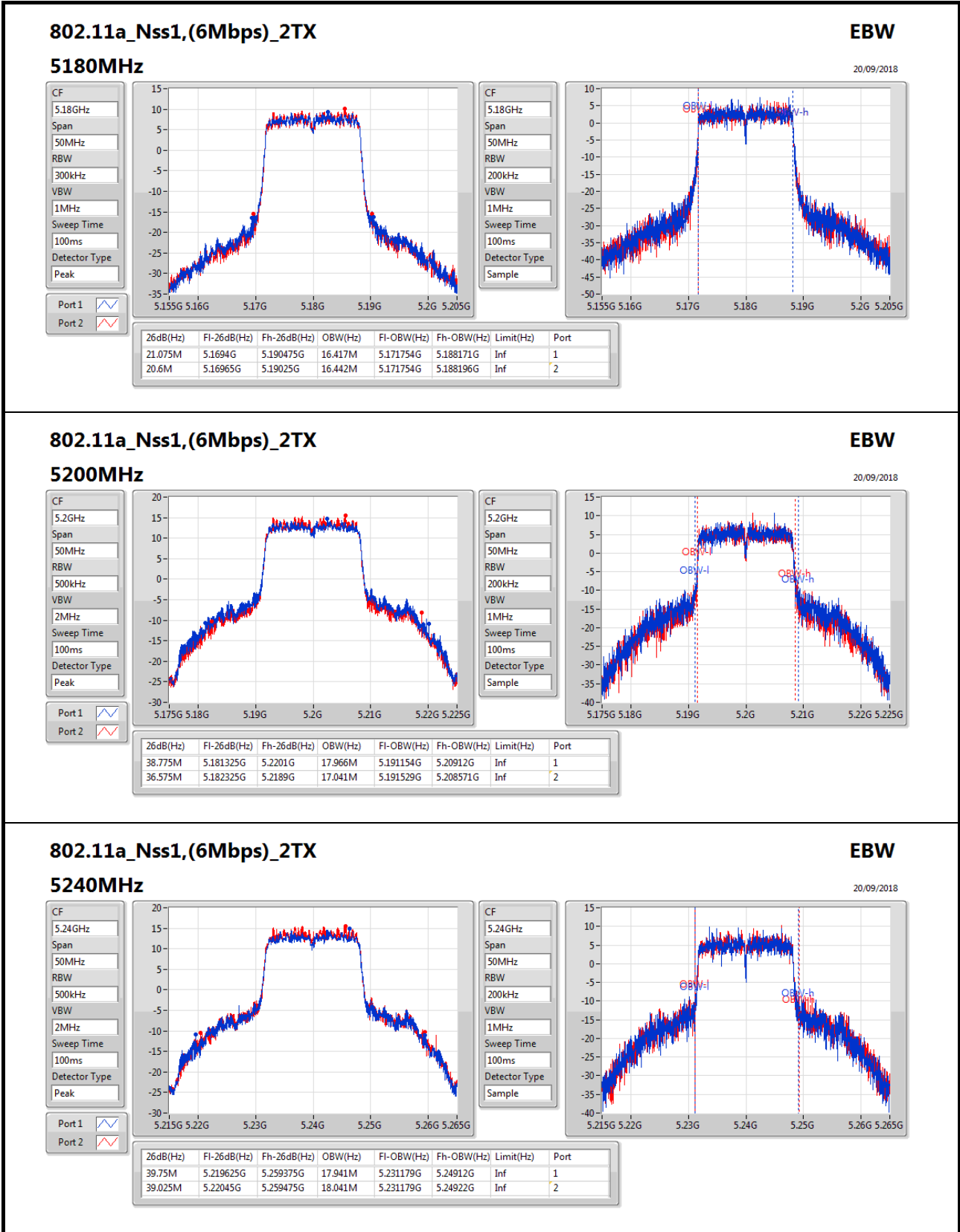
EBW Result

Appendix B

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.075M	16.417M	20.6M	16.442M
5200MHz	Pass	Inf	38.775M	17.966M	36.575M	17.041M
5240MHz	Pass	Inf	39.75M	17.941M	39.025M	18.041M
5745MHz	Pass	500k	15.7M	31.384M	15.075M	30.935M
5785MHz	Pass	500k	16.3M	31.634M	15.675M	31.584M
5825MHz	Pass	500k	16.025M	21.339M	16.3M	23.138M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	27.125M	17.691M	27.05M	17.641M
5200MHz	Pass	Inf	45.525M	24.688M	45.35M	23.188M
5240MHz	Pass	Inf	42.975M	18.416M	43.25M	18.516M
5745MHz	Pass	500k	17.275M	33.083M	16.925M	32.409M
5785MHz	Pass	500k	17.55M	33.783M	16.15M	33.608M
5825MHz	Pass	500k	17.55M	21.514M	17.575M	24.263M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.7M	35.982M	39.85M	35.982M
5230MHz	Pass	Inf	80.35M	36.732M	80.55M	36.432M
5755MHz	Pass	500k	35.05M	53.223M	32.8M	59.67M
5795MHz	Pass	500k	35.3M	62.319M	35M	61.269M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.3M	75.8M	84.8M	75.7M
5775MHz	Pass	500k	75.1M	76.162M	73.8M	76.062M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth;


802.11a_Nss1,(6Mbps)_2TX
EBW

20/09/2018

5240MHz

CF: 5.24GHz

Span: 50MHz

RBW: 500kHz

VBW: 2MHz

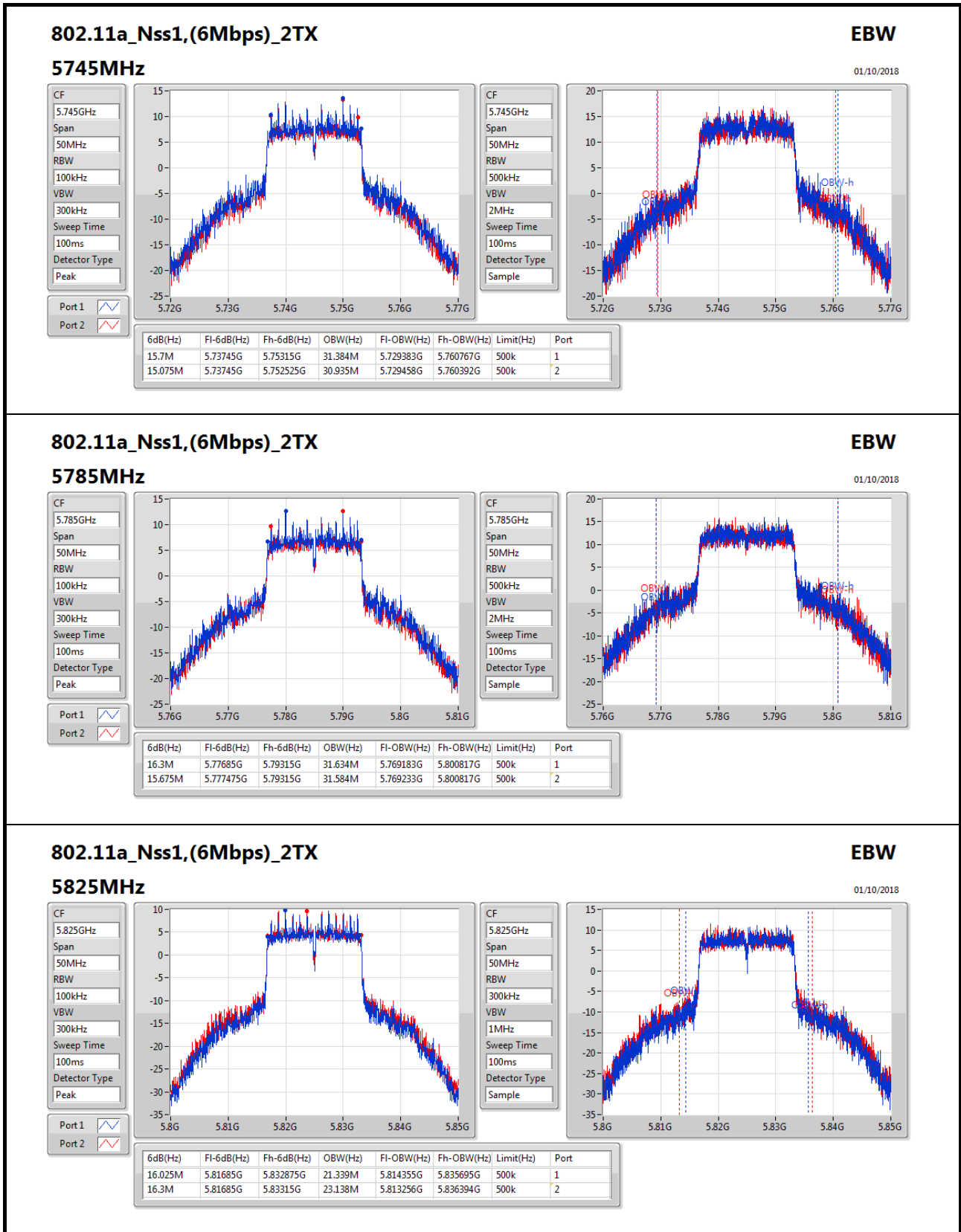
Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.75M	5.219625G	5.259375G	17.941M	5.231179G	5.24912G	Inf	1
39.025M	5.22045G	5.259475G	18.041M	5.231179G	5.24922G	Inf	2

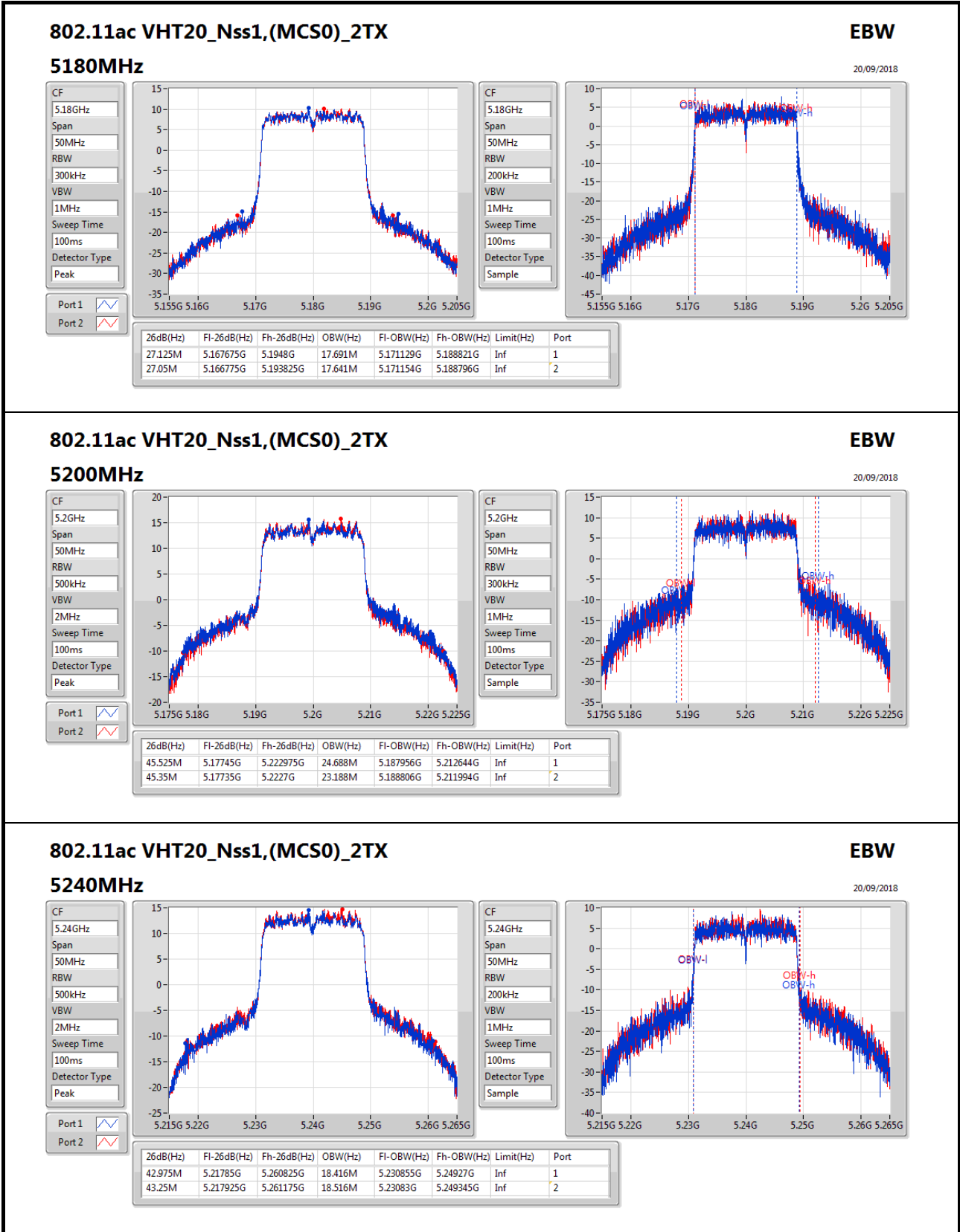

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz
01/10/2018

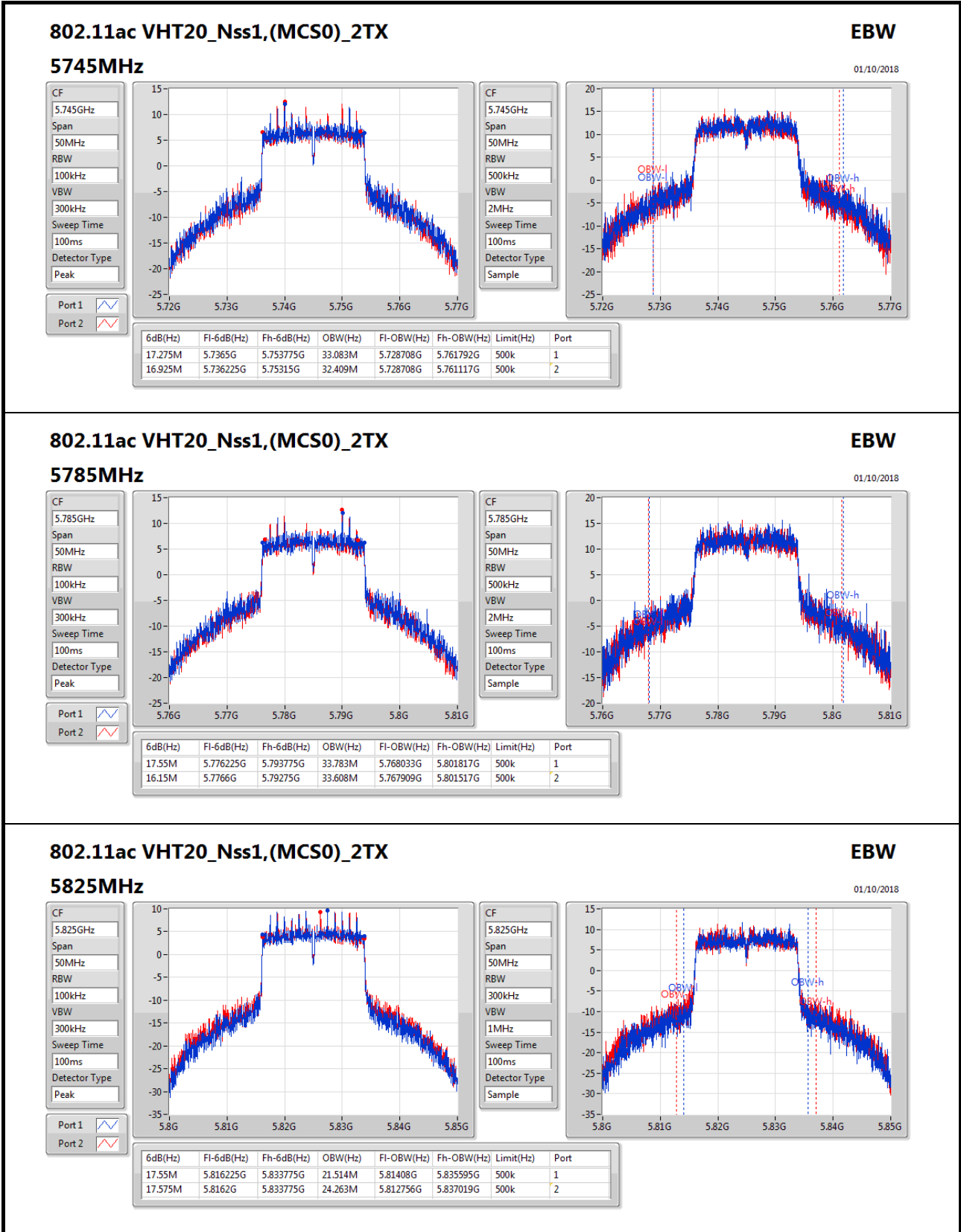
CF: 5.825GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1:

Port 2:

CF: 5.825GHz
Span: 50MHz
RBW: 300kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample



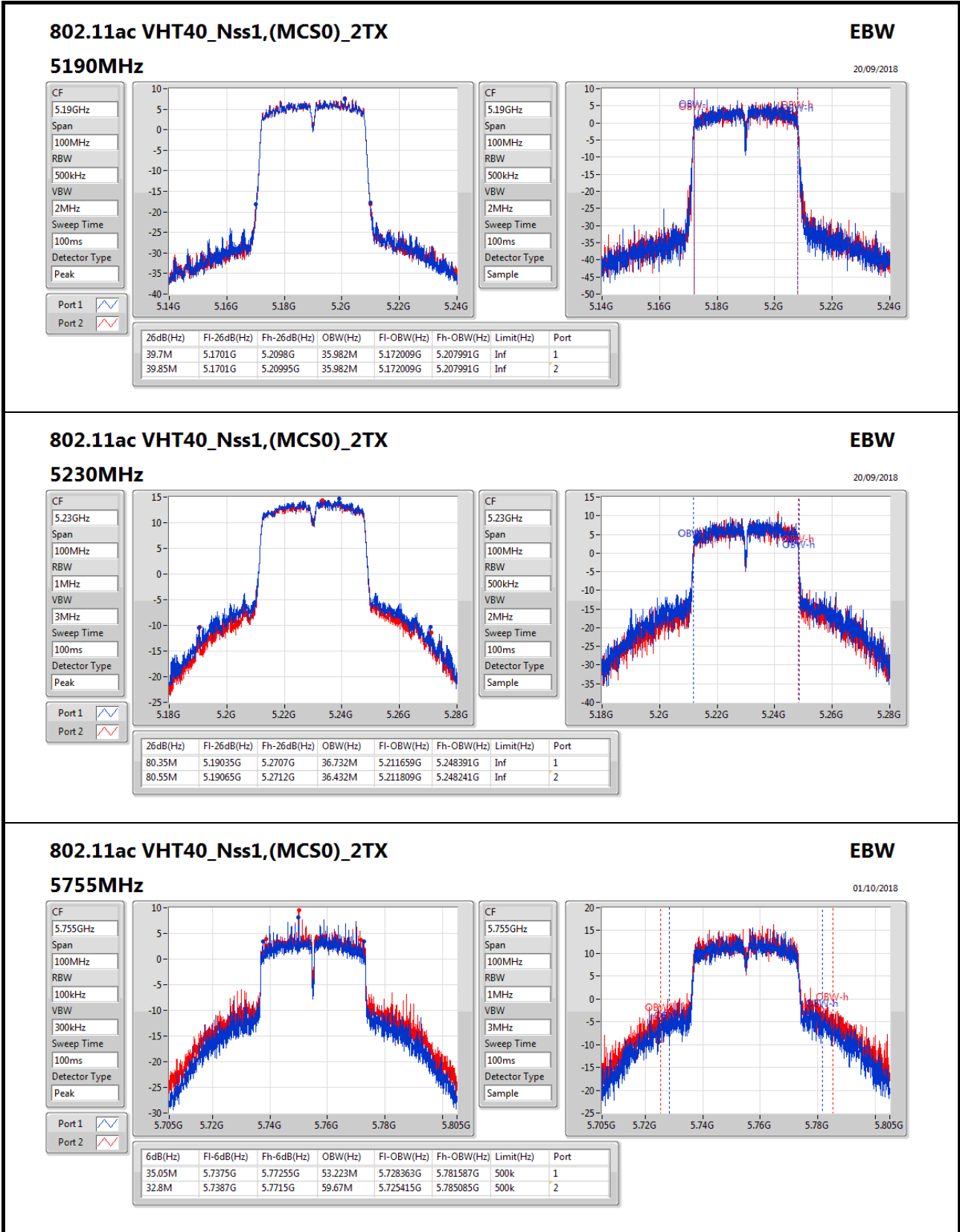

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz
01/10/2018

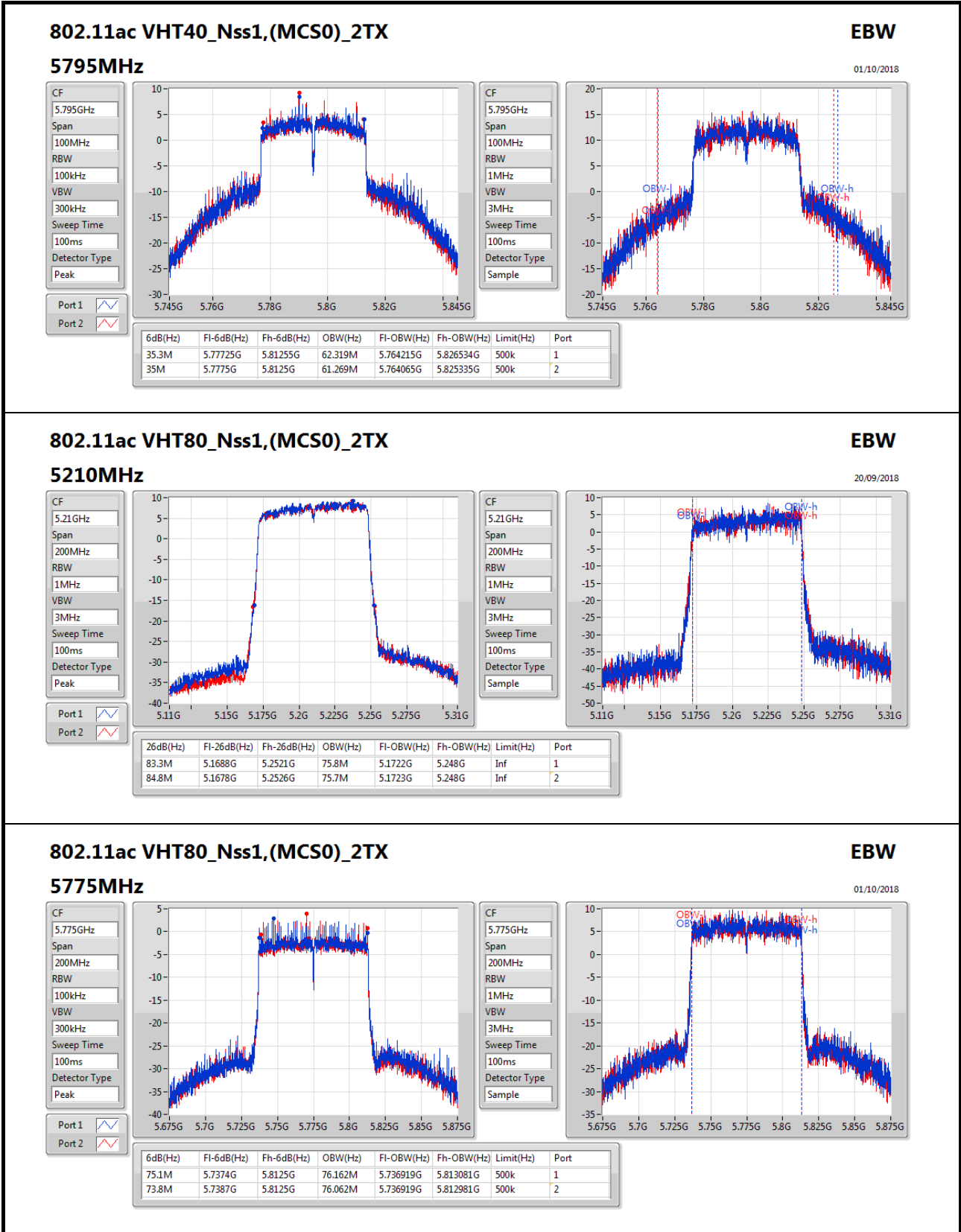
CF: 5.825GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Port 1:

Port 2:

CF: 5.825GHz
Span: 50MHz
RBW: 300kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample







Power Result

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.65	0.23174
802.11ac VHT20_Nss1,(MCS0)_2TX	24.56	0.28576
802.11ac VHT40_Nss1,(MCS0)_2TX	23.33	0.21528
802.11ac VHT80_Nss1,(MCS0)_2TX	21.15	0.13032
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.29	0.42560
802.11ac VHT20_Nss1,(MCS0)_2TX	26.20	0.41687
802.11ac VHT40_Nss1,(MCS0)_2TX	26.03	0.40087
802.11ac VHT80_Nss1,(MCS0)_2TX	23.03	0.20091



Power Result

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	2.94	18.18	18.09	21.15	30.00
5200MHz	Pass	2.94	20.60	20.42	23.52	30.00
5240MHz	Pass	2.94	20.52	20.76	23.65	30.00
5745MHz	Pass	2.94	23.41	23.14	26.29	30.00
5785MHz	Pass	2.94	23.17	23.06	26.13	30.00
5825MHz	Pass	2.94	21.06	21.15	24.12	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	2.94	19.00	19.10	22.06	30.00
5200MHz	Pass	2.94	21.51	21.58	24.56	30.00
5240MHz	Pass	2.94	20.58	20.81	23.71	30.00
5745MHz	Pass	2.94	23.33	23.05	26.20	30.00
5785MHz	Pass	2.94	23.28	23.01	26.16	30.00
5825MHz	Pass	2.94	21.04	21.08	24.07	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	2.94	17.06	16.91	20.00	30.00
5230MHz	Pass	2.94	20.42	20.22	23.33	30.00
5755MHz	Pass	2.94	21.87	22.21	25.05	30.00
5795MHz	Pass	2.94	23.19	22.85	26.03	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	2.94	18.15	18.12	21.15	30.00
5775MHz	Pass	2.94	20.09	19.94	23.03	30.00

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



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.58
802.11ac VHT20_Nss1,(MCS0)_2TX	11.06
802.11ac VHT40_Nss1,(MCS0)_2TX	7.37
802.11ac VHT80_Nss1,(MCS0)_2TX	1.25
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.99
802.11ac VHT20_Nss1,(MCS0)_2TX	10.49
802.11ac VHT40_Nss1,(MCS0)_2TX	7.40
802.11ac VHT80_Nss1,(MCS0)_2TX	1.61

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



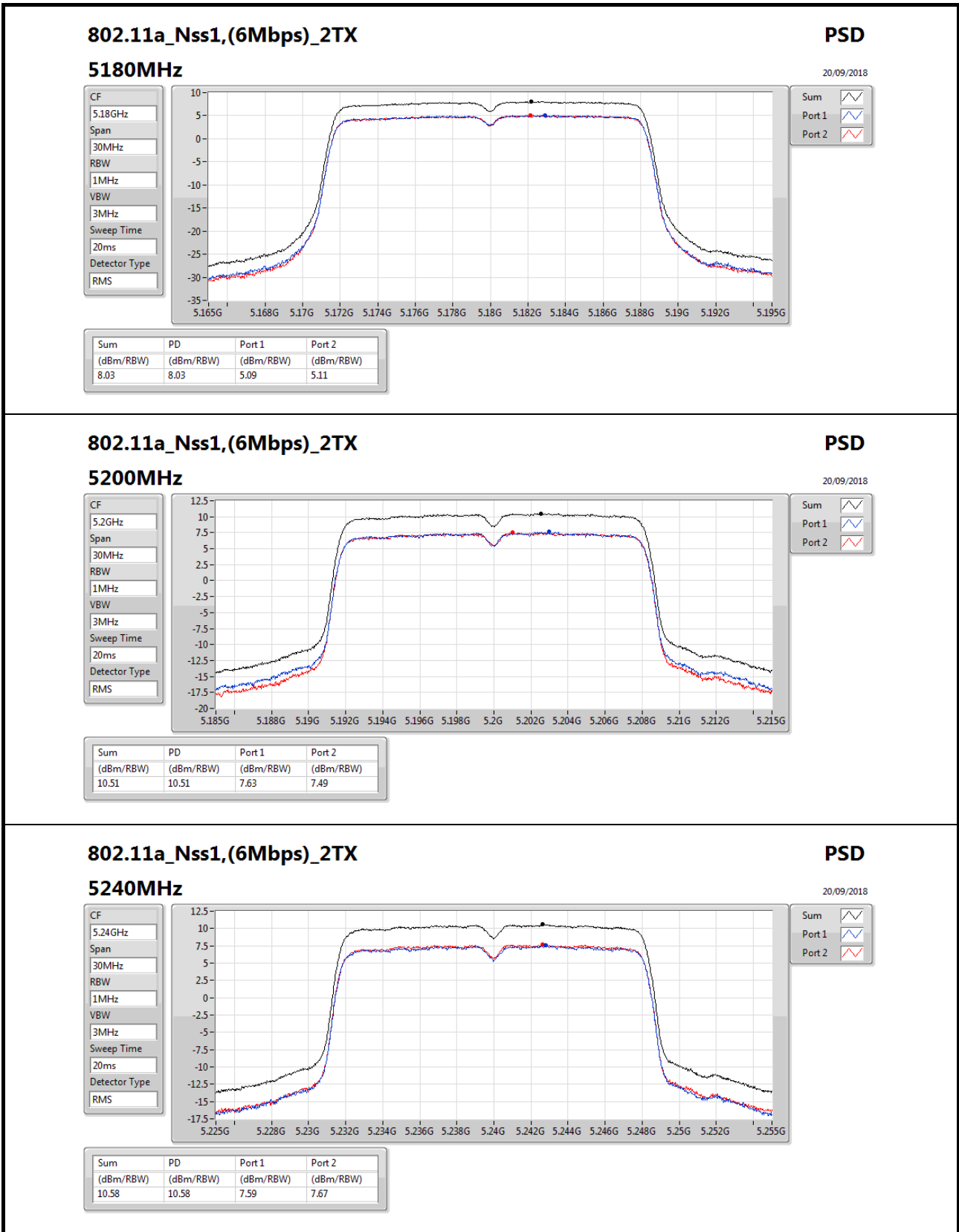
PSD Result

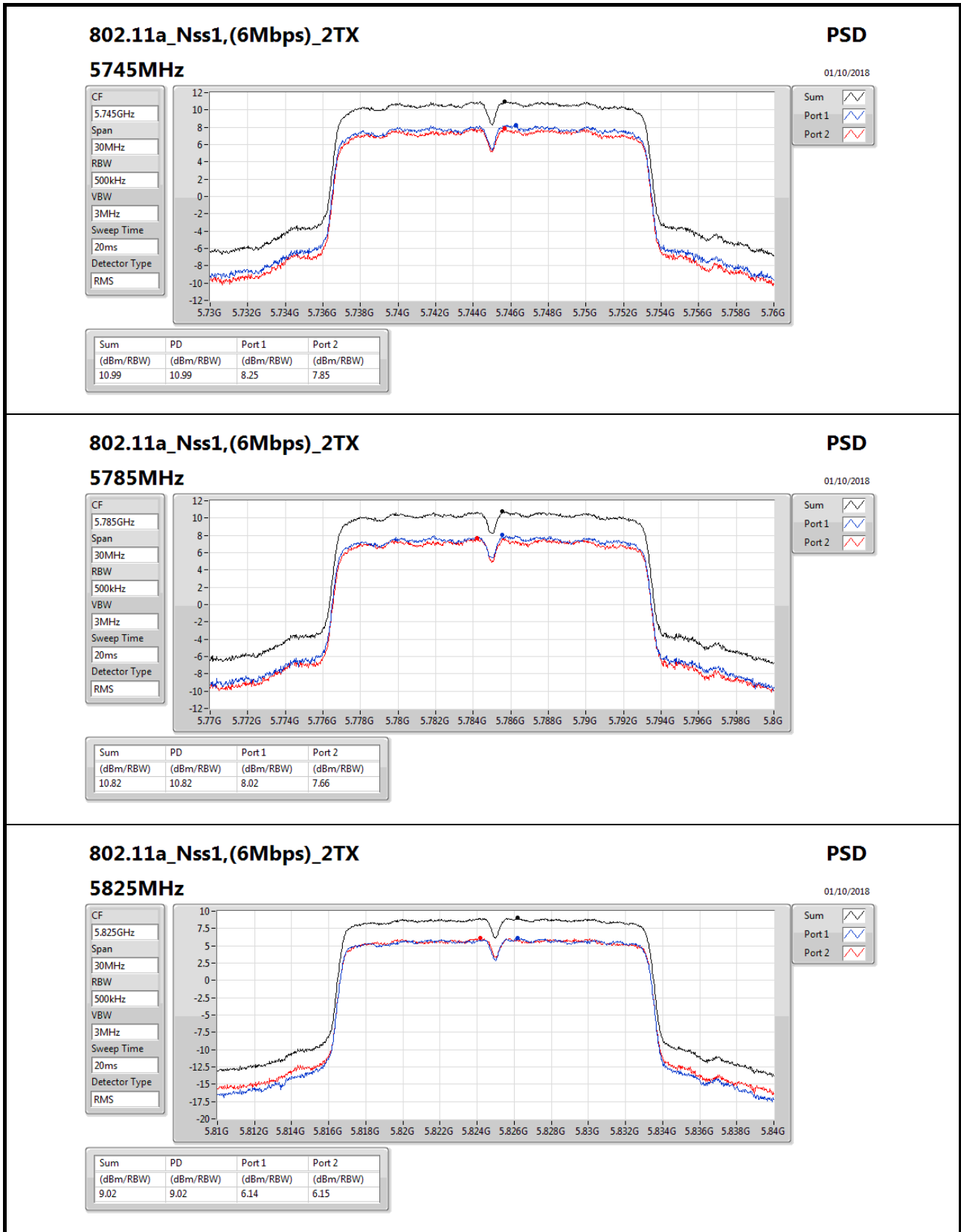
Result

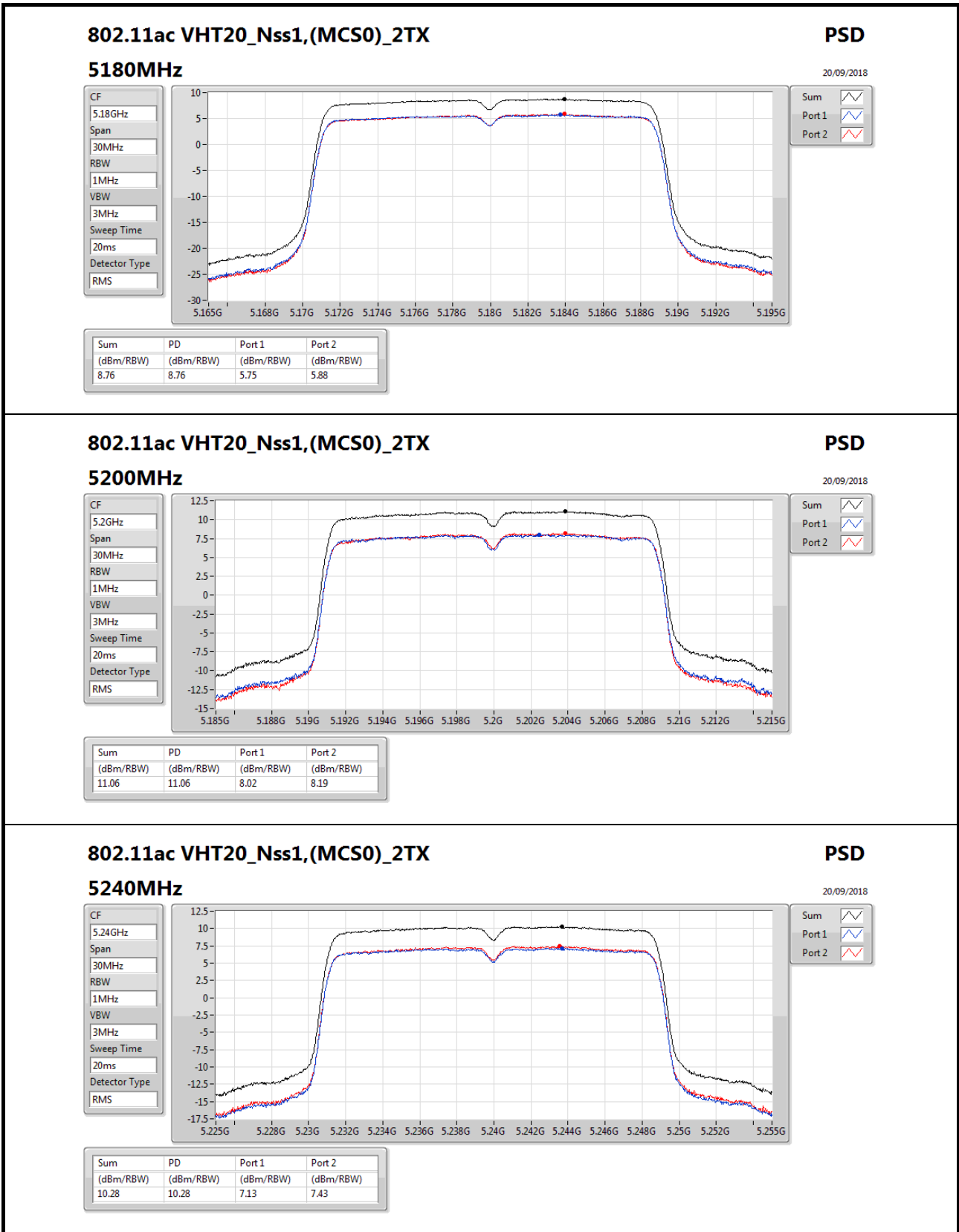
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.87	5.09	5.11	8.03	17.00
5200MHz	Pass	5.87	7.63	7.49	10.51	17.00
5240MHz	Pass	5.87	7.59	7.67	10.58	17.00
5745MHz	Pass	5.87	8.25	7.85	10.99	30.00
5785MHz	Pass	5.87	8.02	7.66	10.82	30.00
5825MHz	Pass	5.87	6.14	6.15	9.02	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.87	5.75	5.88	8.76	17.00
5200MHz	Pass	5.87	8.02	8.19	11.06	17.00
5240MHz	Pass	5.87	7.13	7.43	10.28	17.00
5745MHz	Pass	5.87	7.71	7.44	10.49	30.00
5785MHz	Pass	5.87	7.67	7.34	10.33	30.00
5825MHz	Pass	5.87	5.93	5.88	8.77	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.87	1.03	1.05	4.03	17.00
5230MHz	Pass	5.87	4.47	4.37	7.37	17.00
5755MHz	Pass	5.87	4.31	4.57	7.40	30.00
5795MHz	Pass	5.87	4.48	4.19	7.27	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.87	-1.61	-1.86	1.25	17.00
5775MHz	Pass	5.87	-1.23	-1.42	1.61	30.00

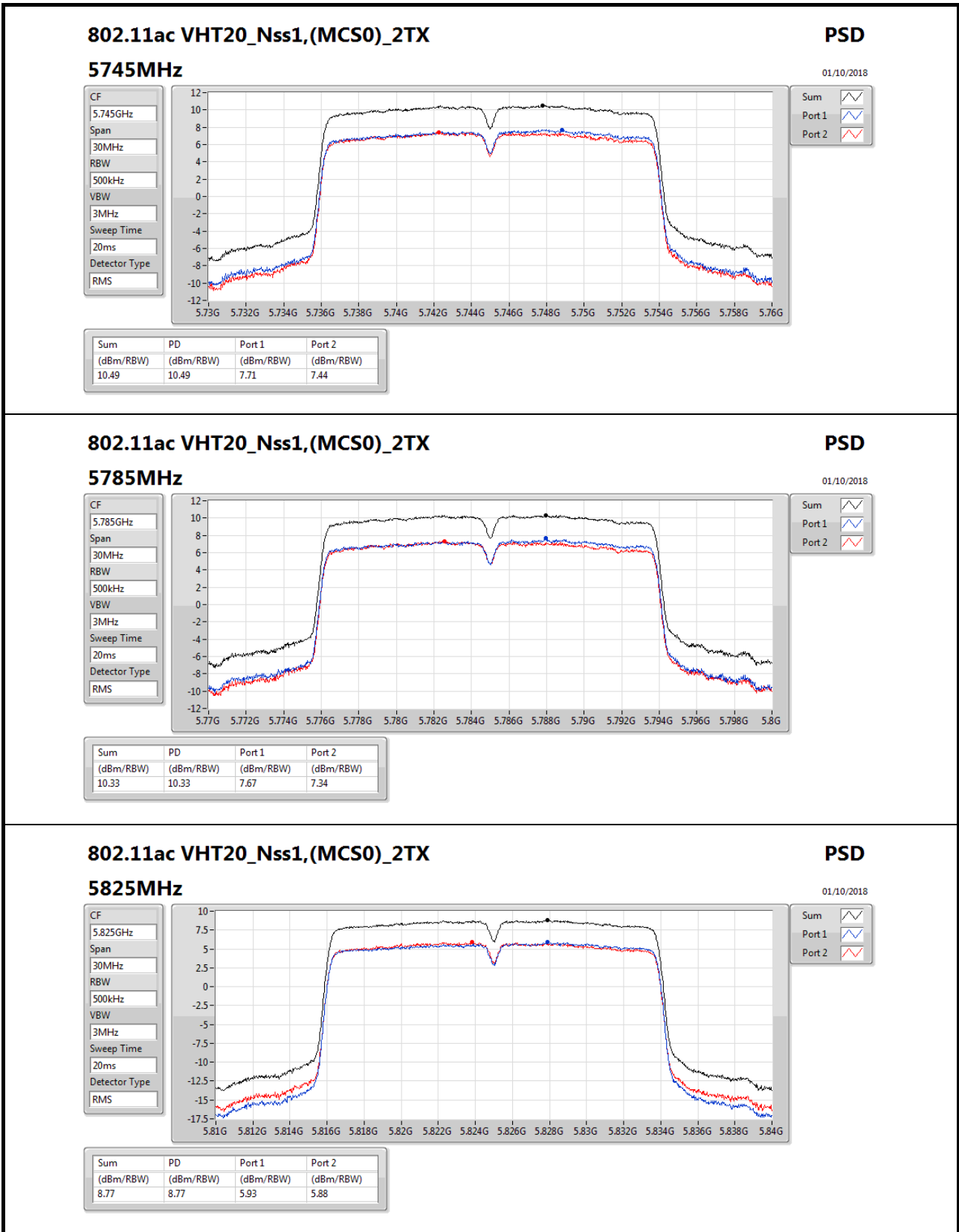
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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









802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz

PSD

01/10/2018

CF
5.825GHz

Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

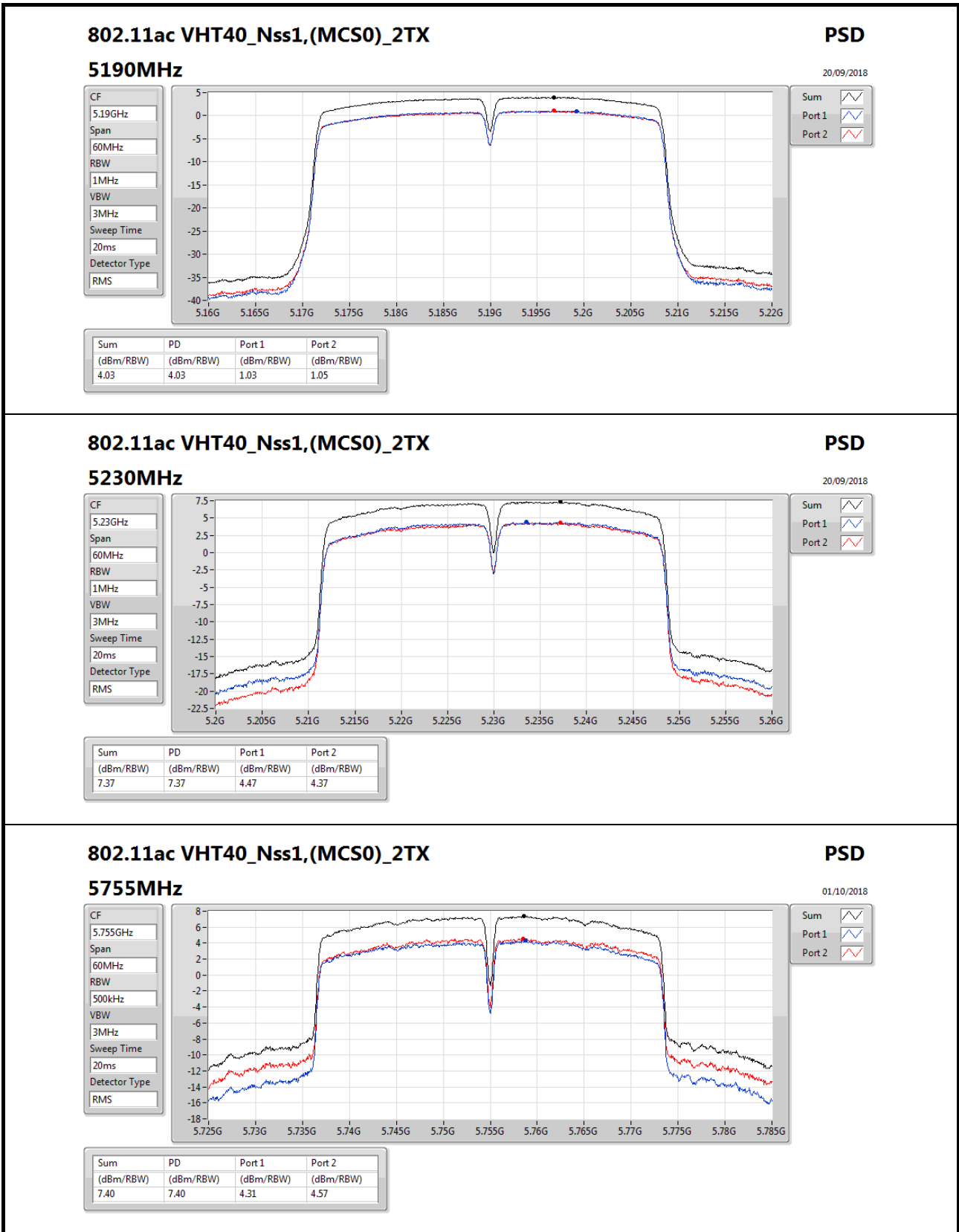
Detector Type
RMS

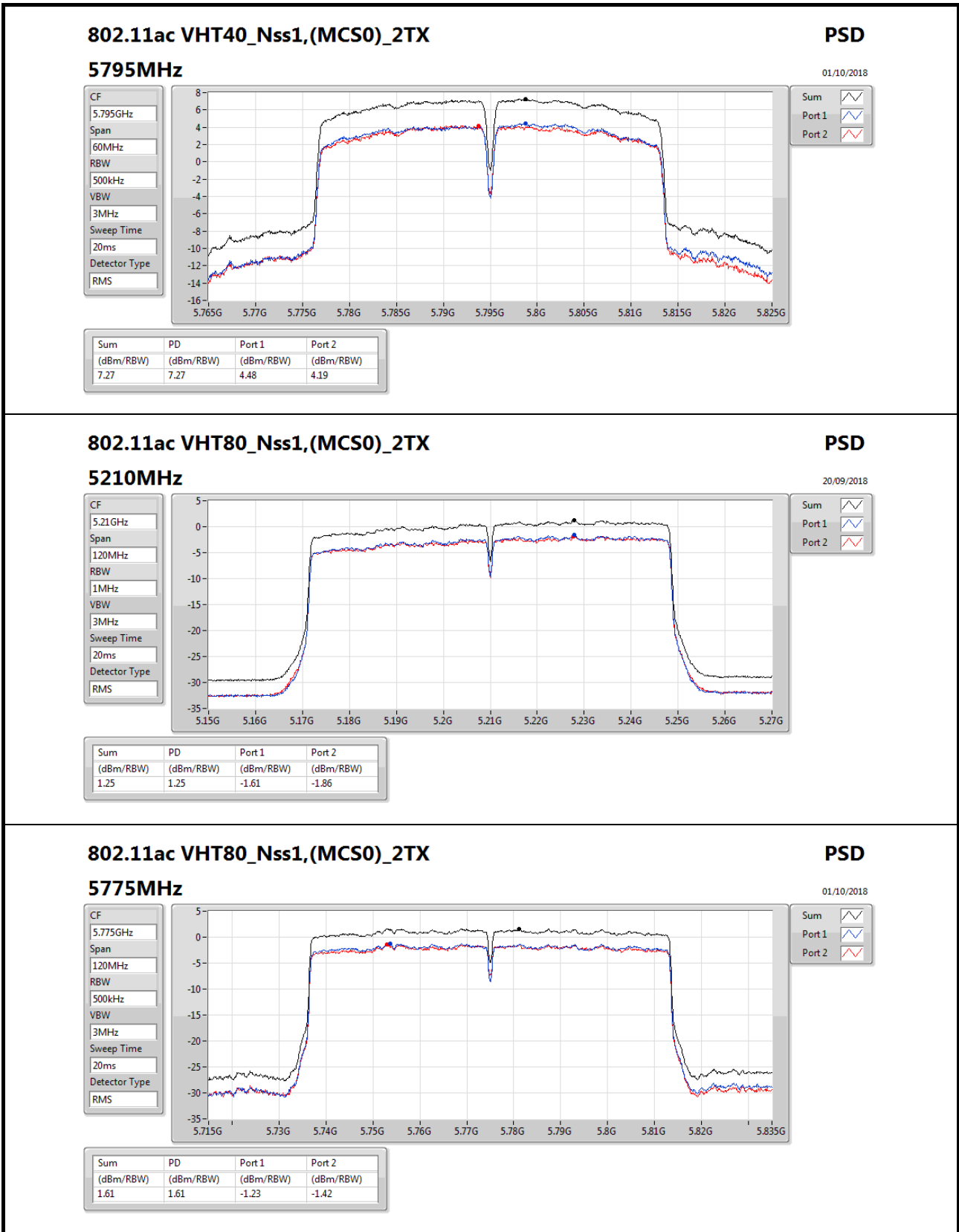


Sum

Port 1

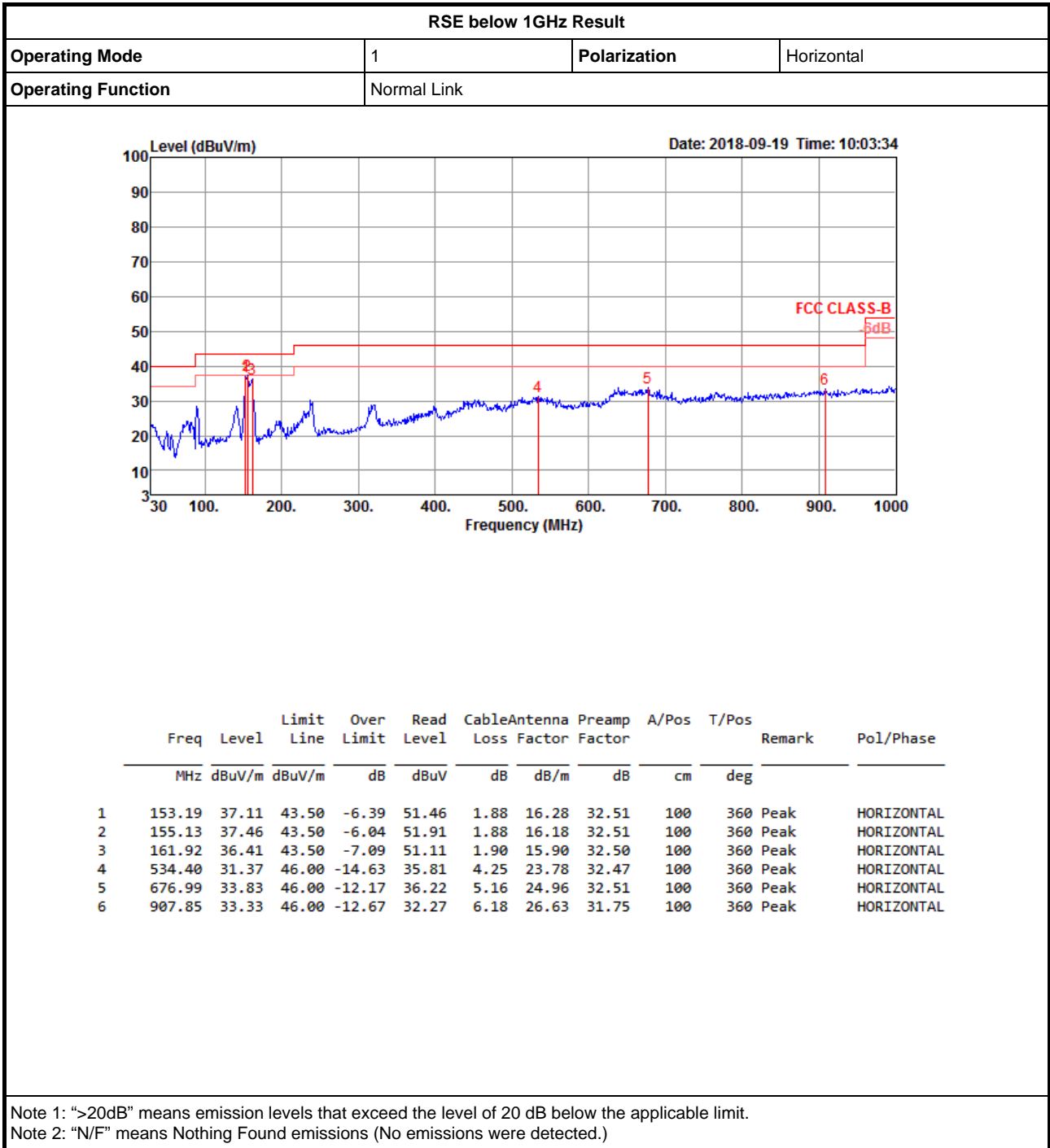
Port 2





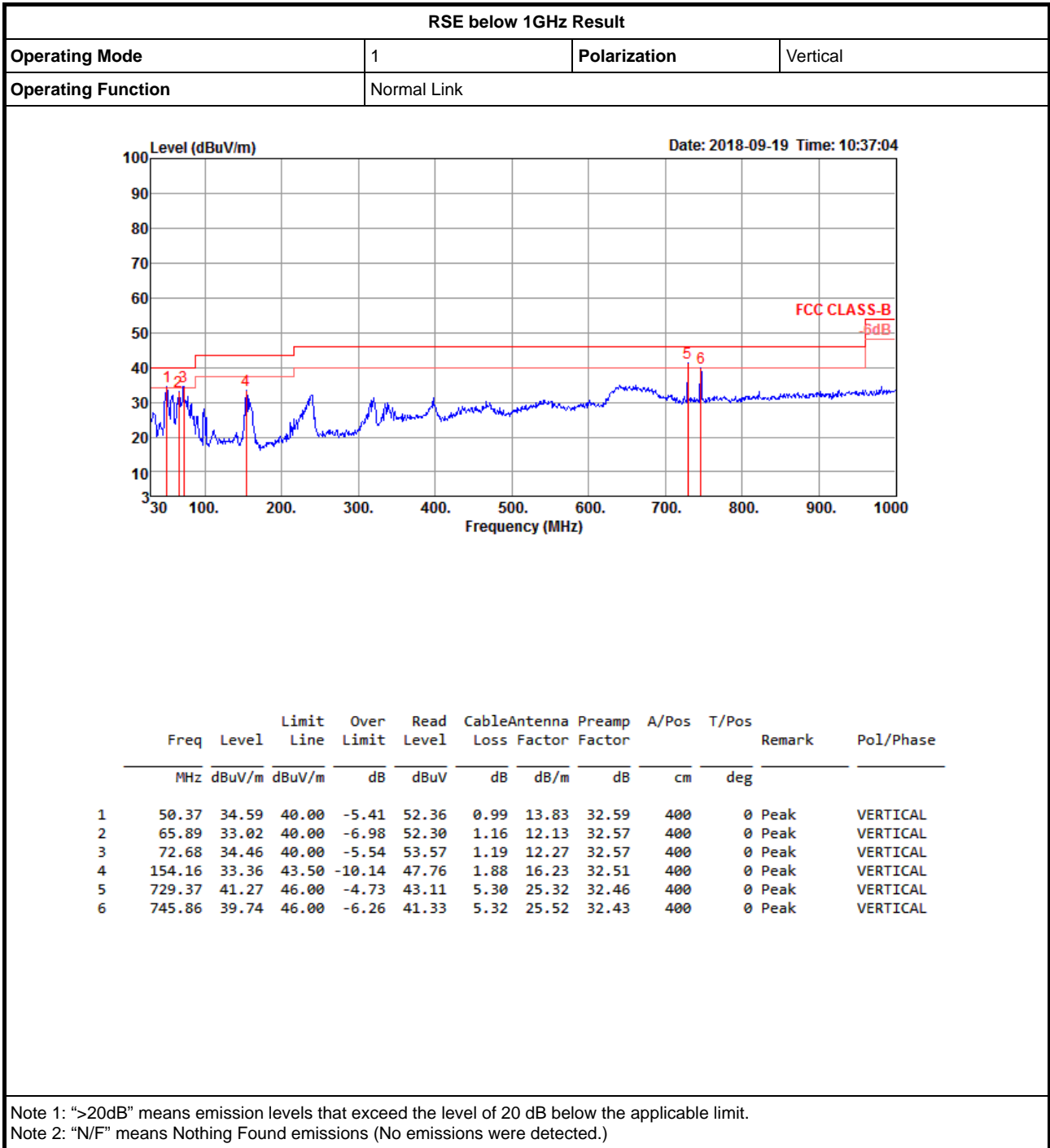


RSE below 1GHz Result





RSE below 1GHz Result





RSE TX above 1GHz Result

Appendix E.2

Summary

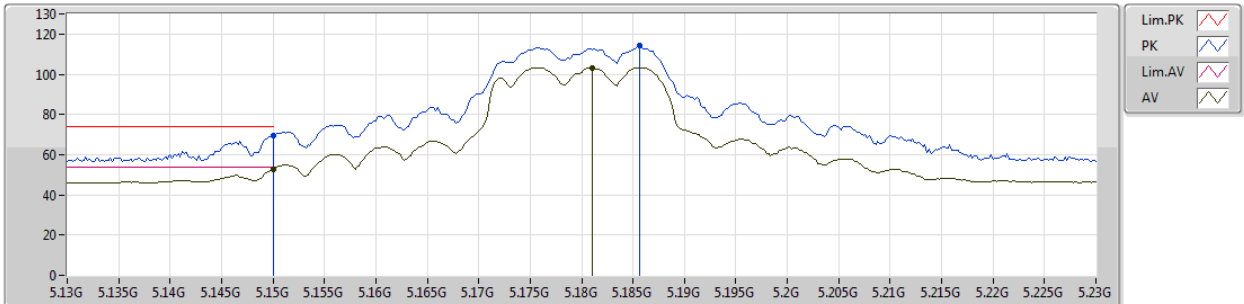
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.1496G	53.96	54.00	-0.04	8.56	3	Vertical	275	2.34	-



802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5180MHz_TX



EUT_Y_2TX
Setting 18.5
02-R-4-10
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.15G	69.69	74.00	-4.31	8.56	3	Vertical	209	2.73
AV	5.15G	52.95	54.00	-1.05	8.56	3	Vertical	209	2.73
PK	5.1856G	114.11	Inf	-Inf	8.63	3	Vertical	209	2.73
AV	5.181G	103.24	Inf	-Inf	8.63	3	Vertical	209	2.73



802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5180MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

EUT Y_2TX
 Setting 18.5
 02-R-4
 FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.3667G	55.24	68.20	-12.96	14.60	3	Vertical	4	1.50
PK	15.5353G	57.25	74.00	-16.75	16.05	3	Vertical	321	1.60
AV	15.5359G	42.08	54.00	-11.92	16.05	3	Vertical	321	1.60



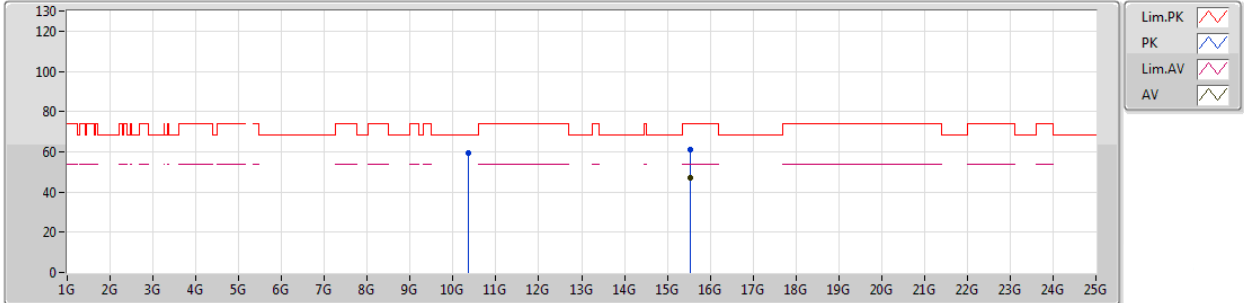
RSE TX above 1GHz Result

Appendix E.2

802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5180MHz_TX



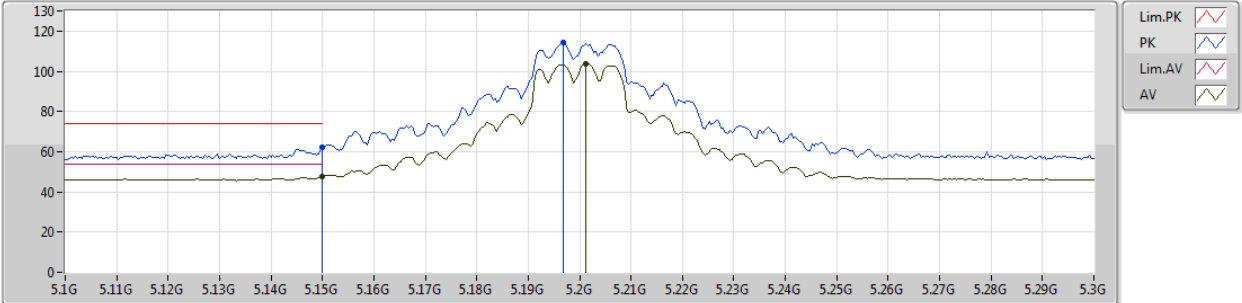
EUT Y_2TX
Setting 18.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.3614G	59.59	68.20	-8.61	14.60	3	Horizontal	294	1.50
PK	15.5393G	60.85	74.00	-13.15	16.04	3	Horizontal	310	1.33
AV	15.5393G	46.95	54.00	-7.05	16.04	3	Horizontal	310	1.33

802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5200MHz_TX



EUT Y_2TX
Setting 21.5
02-R-4-10
FSU(100050)

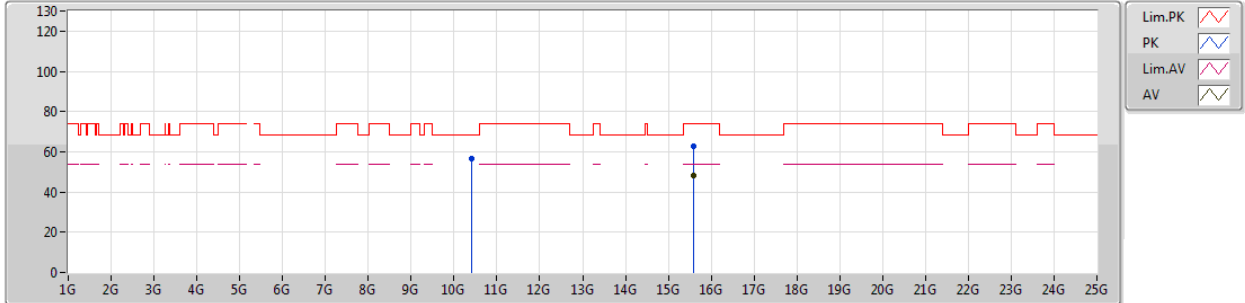
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.15G	62.30	74.00	-11.70	8.56	3	Vertical	277	1.03
AV	5.15G	47.82	54.00	-6.18	8.56	3	Vertical	277	1.03
PK	5.1968G	114.11	Inf	-Inf	8.66	3	Vertical	277	1.03
AV	5.2012G	103.57	Inf	-Inf	8.66	3	Vertical	277	1.03



802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5200MHz_TX



EUT_Y_2TX
Setting 21.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.40208G	56.80	68.20	-11.40	14.57	3	Vertical	12	1.51
PK	15.59504G	62.57	74.00	-11.43	15.90	3	Vertical	325	1.54
AV	15.60032G	48.42	54.00	-5.58	15.89	3	Vertical	325	1.54



RSE TX above 1GHz Result

Appendix E.2

802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5200MHz_TX



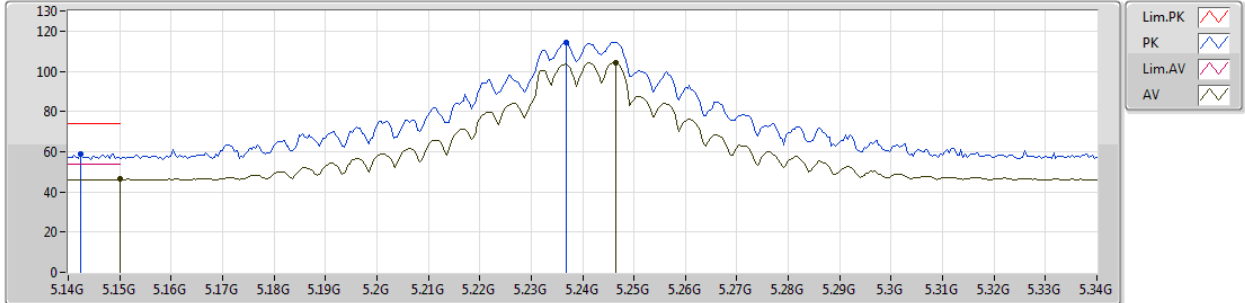
EUT_Y_2TX
Setting 21.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4018G	58.85	68.20	-9.35	14.57	3	Horizontal	300	1.45
PK	15.59952G	66.54	74.00	-7.46	15.89	3	Horizontal	308	1.45
AV	15.59928G	52.86	54.00	-1.14	15.89	3	Horizontal	308	1.45

802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5240MHz_TX



EUT Y_2TX
Setting 22.5
02-R-4-10
FSU(100050)

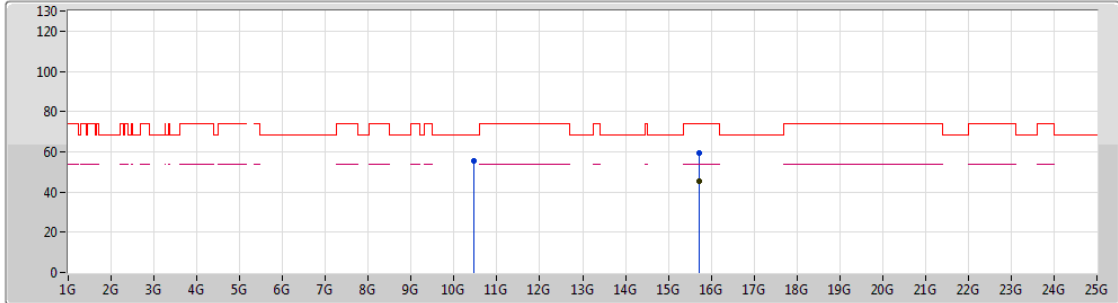
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.1424G	58.75	74.00	-15.25	8.56	3	Vertical	266	1.01
AV	5.15G	46.52	54.00	-7.48	8.56	3	Vertical	266	1.01
PK	5.2368G	114.34	Inf	-Inf	8.71	3	Vertical	266	1.01
AV	5.2464G	104.32	Inf	-Inf	8.73	3	Vertical	266	1.01



802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5240MHz_TX



EUT_Y_2TX
Setting 22.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4759G	55.22	68.20	-12.98	14.50	3	Vertical	5	1.50
PK	15.7202G	59.26	74.00	-14.74	15.59	3	Vertical	325	1.50
AV	15.7201G	45.37	54.00	-8.63	15.59	3	Vertical	325	1.50

802.11a_Nss1,(6Mbps)_2TX

19/09/2018

5240MHz_TX



EUT_Y_2TX
Setting 22.5
02-R-4
FSU(100050)

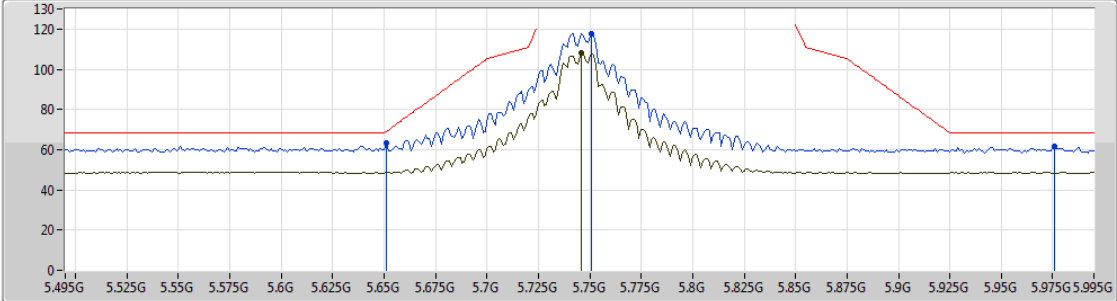
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4817G	57.87	68.20	-10.33	14.50	3	Horizontal	314	3.00
PK	15.7151G	67.92	74.00	-6.08	15.61	3	Horizontal	307	1.38
AV	15.72G	53.71	54.00	-0.29	15.59	3	Horizontal	307	1.38



802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5745MHz_TX



EUT_Y_2TX
Setting 25
02-R-4-10
FSP

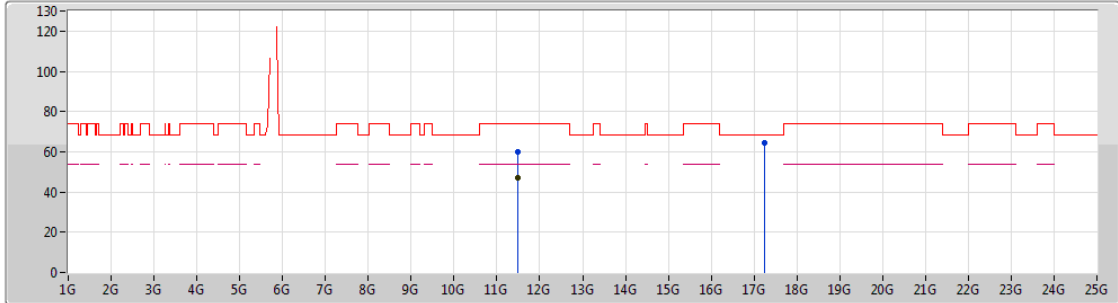
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.651G	63.32	68.94	-5.62	9.29	3	Vertical	190	1.62
PK	5.751G	117.85	Inf	-Inf	9.32	3	Vertical	190	1.62
AV	5.746G	108.22	Inf	-Inf	9.32	3	Vertical	190	1.62
PK	5.976G	61.39	68.20	-6.81	9.50	3	Vertical	190	1.62



802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5745MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.4844G	60.11	74.00	-13.89	14.66	3	Vertical	299	1.29
AV	11.488G	47.10	54.00	-6.90	14.66	3	Vertical	299	1.29
PK	17.2396G	64.33	68.20	-3.87	20.52	3	Vertical	266	1.43

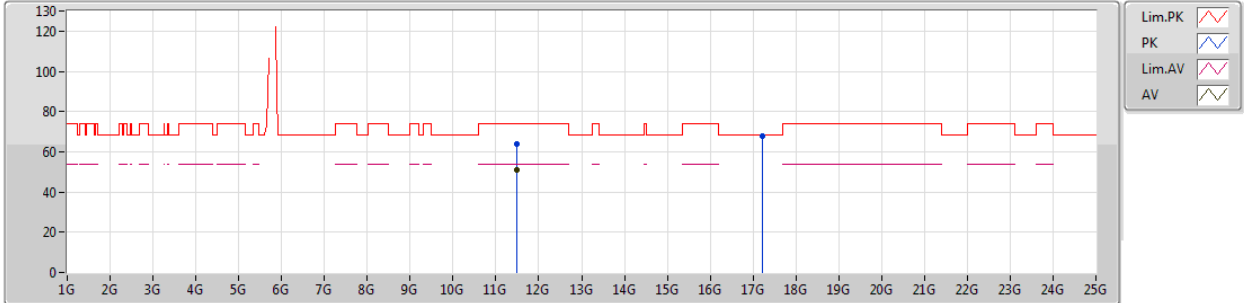


RSE TX above 1GHz Result

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5745MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.4905G	63.62	74.00	-10.38	14.66	3	Horizontal	265	2.97
AV	11.49G	50.85	54.00	-3.15	14.66	3	Horizontal	265	2.97
PK	17.232G	67.71	68.20	-0.49	20.48	3	Horizontal	272	1.55

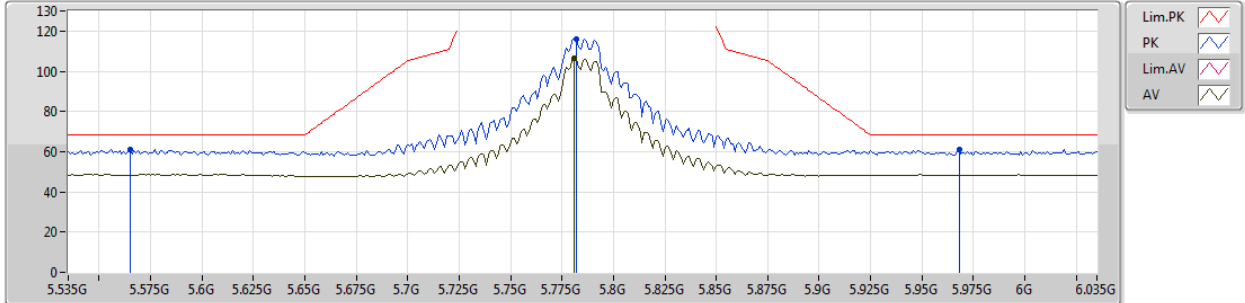


RSE TX above 1GHz Result

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5785MHz_TX



EUT_Y_2TX
Setting 25
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.565G	61.08	68.20	-7.12	9.25	3	Vertical	186	2.39
PK	5.782G	116.18	Inf	-Inf	9.33	3	Vertical	186	2.39
AV	5.781G	106.24	Inf	-Inf	9.33	3	Vertical	186	2.39
PK	5.968G	61.13	68.20	-7.07	9.48	3	Vertical	186	2.39



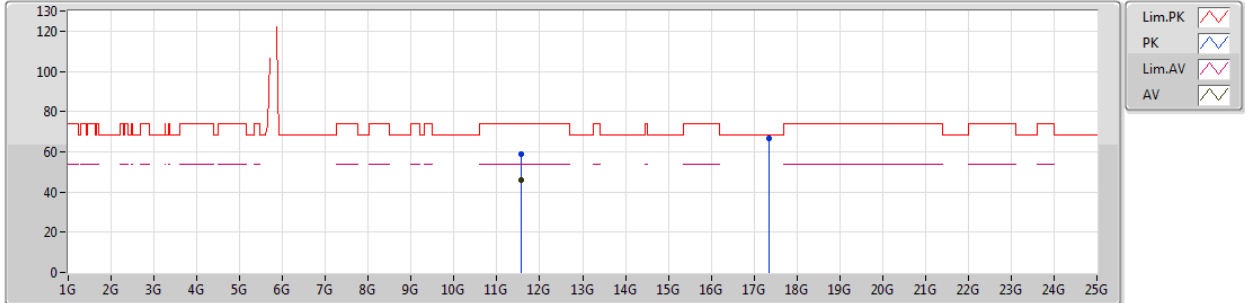
RSE TX above 1GHz Result

Appendix E.2

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5785MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5719G	58.79	74.00	-15.21	14.76	3	Vertical	332	1.36
AV	11.5683G	45.82	54.00	-8.18	14.76	3	Vertical	332	1.36
PK	17.3545G	66.42	68.20	-1.78	21.20	3	Vertical	301	2.97

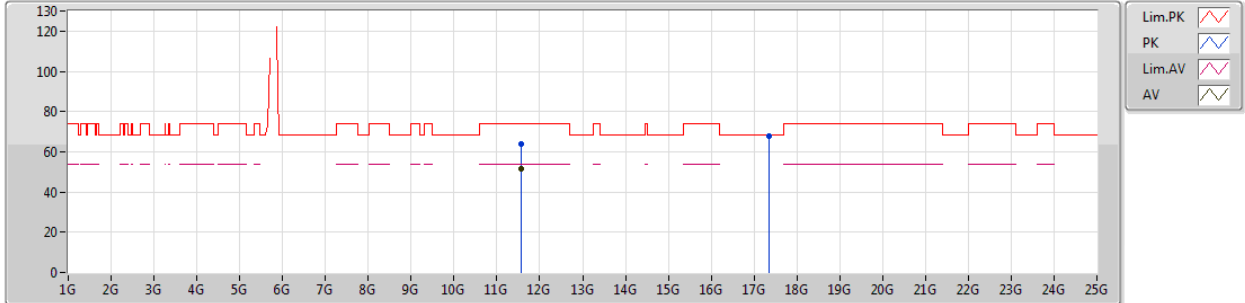


RSE TX above 1GHz Result

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5785MHz_TX



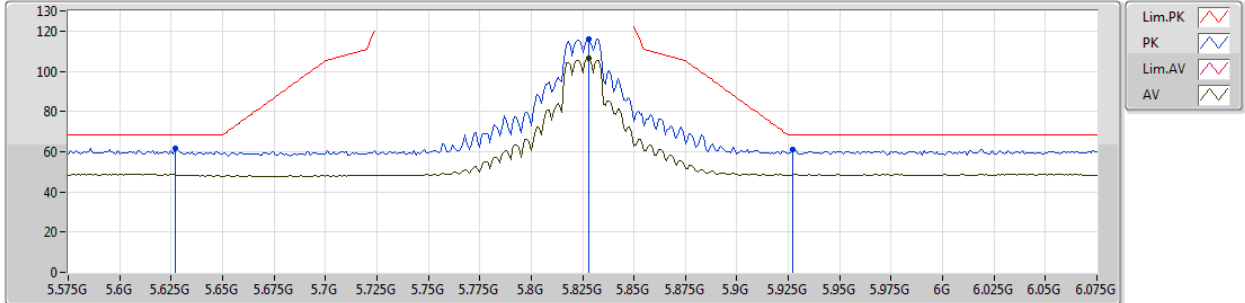
EUT_Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5706G	63.62	74.00	-10.38	14.76	3	Horizontal	271	2.79
AV	11.5702G	51.49	54.00	-2.51	14.76	3	Horizontal	271	2.79
PK	17.3565G	67.64	68.20	-0.56	21.22	3	Horizontal	259	2.94

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5825MHz_TX



EUT Y_2TX
Setting 21.5
02-R-4-10
FSP

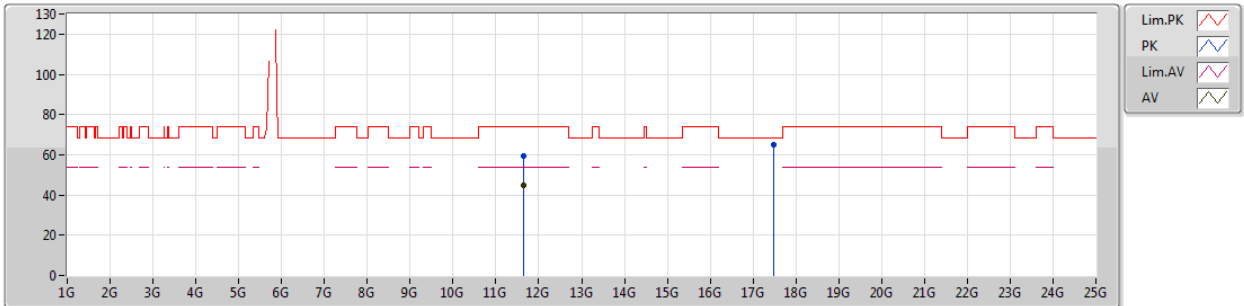
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.627G	61.83	68.20	-6.37	9.29	3	Vertical	194	1.00
PK	5.828G	116.00	Inf	-Inf	9.36	3	Vertical	194	1.00
AV	5.828G	106.22	Inf	-Inf	9.36	3	Vertical	194	1.00
PK	5.927G	61.31	68.20	-6.89	9.45	3	Vertical	194	1.00



802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5825MHz_TX



EUT Y_2TX
Setting 21.5
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.6481G	59.17	74.00	-14.83	14.84	3	Vertical	291	1.31
AV	11.6483G	44.96	54.00	-9.04	14.84	3	Vertical	291	1.31
PK	17.4731G	65.12	68.20	-3.08	21.90	3	Vertical	328	1.92



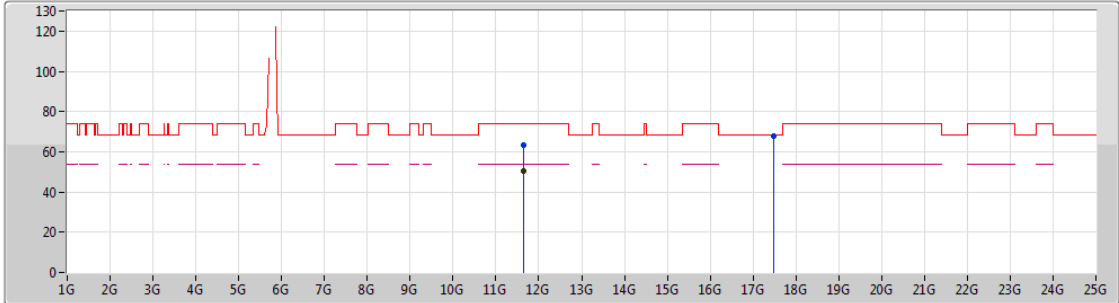
RSE TX above 1GHz Result

Appendix E.2

802.11a_Nss1,(6Mbps)_2TX

28/09/2018

5825MHz_TX



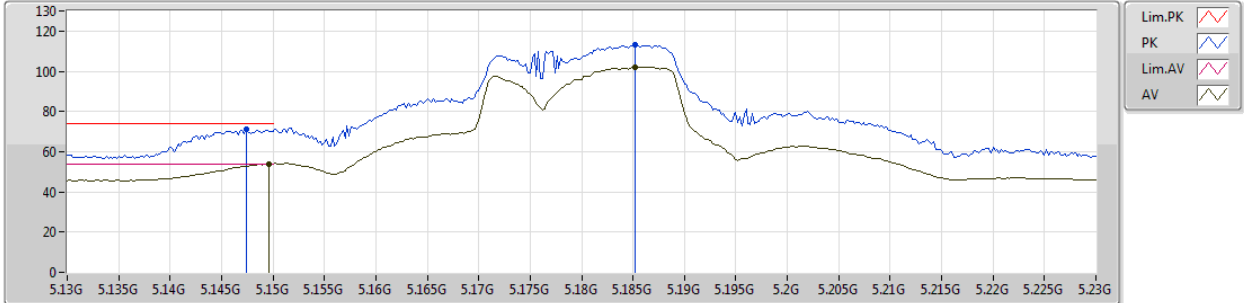
EUT_Y_2TX
Setting 21.5
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.6443G	63.25	74.00	-10.75	14.84	3	Horizontal	273	2.81
AV	11.6499G	50.33	54.00	-3.67	14.84	3	Horizontal	273	2.81
PK	17.4752G	67.76	68.20	-0.44	21.92	3	Horizontal	277	2.37

802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5180MHz_TX



EUT Y_2TX
Setting 19.5
02-R-4-10
FSU(100050)

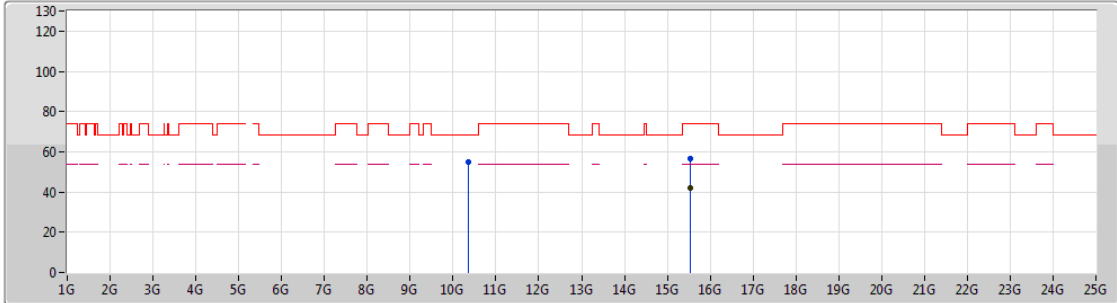
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.1474G	71.18	74.00	-2.82	8.56	3	Vertical	275	2.34
AV	5.1496G	53.96	54.00	-0.04	8.56	3	Vertical	275	2.34
PK	5.1852G	112.99	Inf	-Inf	8.63	3	Vertical	275	2.34
AV	5.1852G	102.09	Inf	-Inf	8.63	3	Vertical	275	2.34



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5180MHz_TX



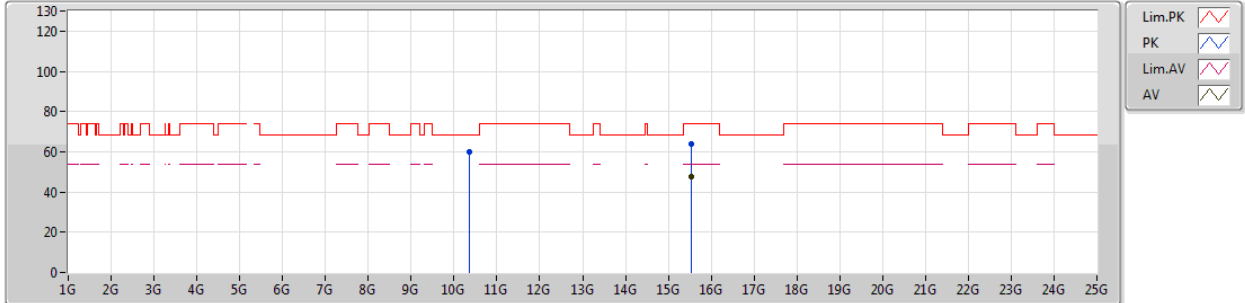
EUT Y_2TX
Setting 19.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.3635G	55.18	68.20	-13.02	14.60	3	Vertical	26	1.50
PK	15.5464G	56.54	74.00	-17.46	16.03	3	Vertical	323	2.12
AV	15.5444G	42.19	54.00	-11.81	16.04	3	Vertical	323	2.12

802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5180MHz_TX



EUT_Y_2TX
Setting 19.5
02-R-4
FSU(100050)

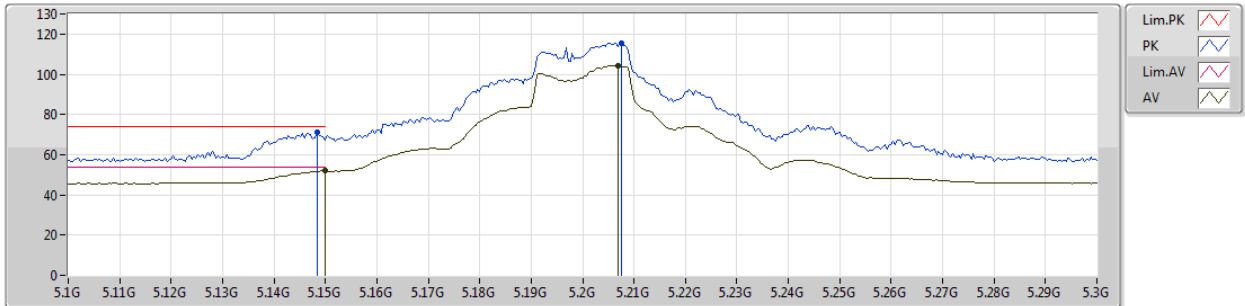
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.3624G	60.06	68.20	-8.14	14.60	3	Horizontal	295	1.28
PK	15.5385G	64.12	74.00	-9.88	16.04	3	Horizontal	304	1.41
AV	15.538G	47.66	54.00	-6.34	16.04	3	Horizontal	304	1.41



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5200MHz_TX



EUT Y_2TX
Setting 22.5
02-R-4-10
FSU(100050)

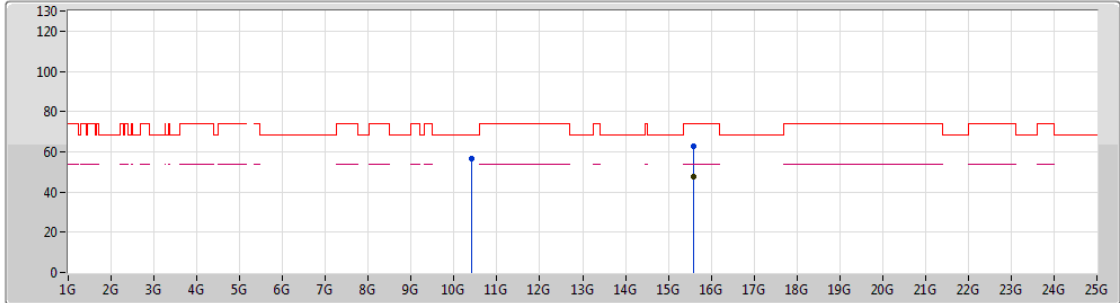
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.1484G	70.99	74.00	-3.01	8.56	3	Vertical	209	2.92
AV	5.15G	52.06	54.00	-1.94	8.56	3	Vertical	209	2.92
PK	5.2076G	115.51	Inf	-Inf	8.67	3	Vertical	209	2.92
AV	5.2068G	104.32	Inf	-Inf	8.67	3	Vertical	209	2.92



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5200MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

EUT_Y_2TX
 Setting 22.5
 02-R-4
 FSU(100050)

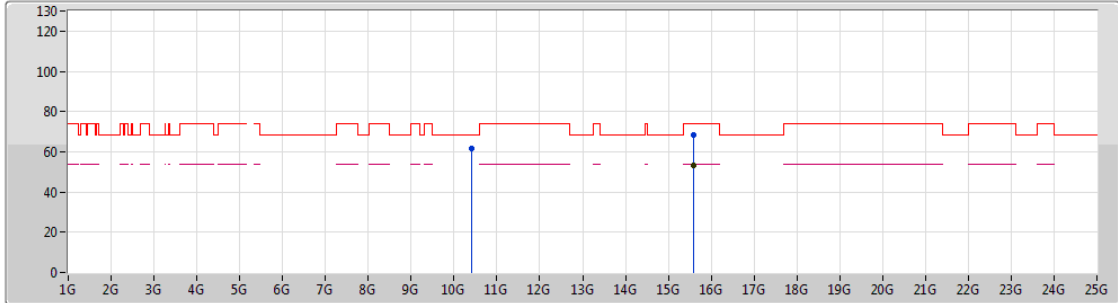
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4029G	56.49	68.20	-11.71	14.57	3	Vertical	9	1.39
PK	15.5977G	62.58	74.00	-11.42	15.90	3	Vertical	31	2.13
AV	15.5987G	47.42	54.00	-6.58	15.89	3	Vertical	31	2.13



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5200MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

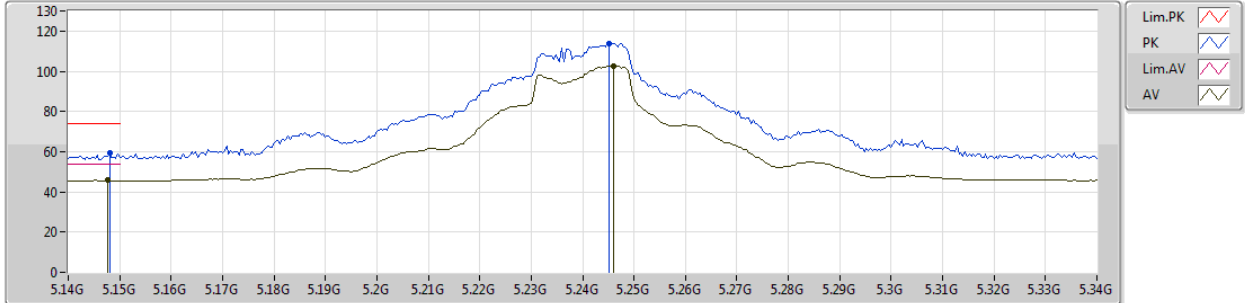
EUT_Y_2TX
 Setting 22.5
 02-R-4
 FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4024G	61.52	68.20	-6.68	14.57	3	Horizontal	289	1.00
PK	15.601G	68.18	74.00	-5.82	15.89	3	Horizontal	305	1.37
AV	15.59864G	53.21	54.00	-0.79	15.89	3	Horizontal	305	1.37

802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5240MHz_TX



EUT Y_2TX
Setting 22.5
02-R-4-10
FSU(100050)

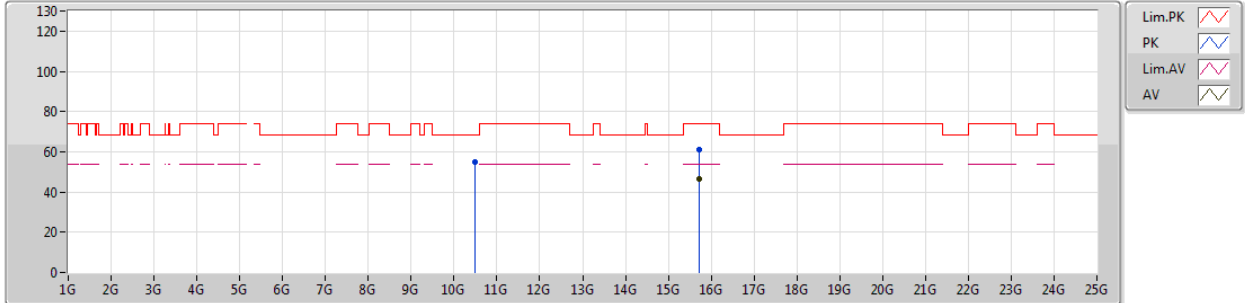
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.148G	59.48	74.00	-14.52	8.56	3	Vertical	274	1.50
AV	5.1476G	45.68	54.00	-8.32	8.56	3	Vertical	274	1.50
PK	5.2452G	113.86	Inf	-Inf	8.72	3	Vertical	274	1.50
AV	5.246G	102.69	Inf	-Inf	8.73	3	Vertical	274	1.50



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5240MHz_TX



EUT_Y_2TX
Setting 22.5
02-R-4
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.48344G	54.78	68.20	-13.42	14.50	3	Vertical	26	1.50
PK	15.71784G	61.09	74.00	-12.91	15.60	3	Vertical	42	2.47
AV	15.72048G	46.64	54.00	-7.36	15.59	3	Vertical	42	2.47



802.11ac VHT20_Nss1,(MCS0)_2TX

19/09/2018

5240MHz_TX



EUT_Y_2TX
Setting 22.5
02-R-4
FSU(100050)

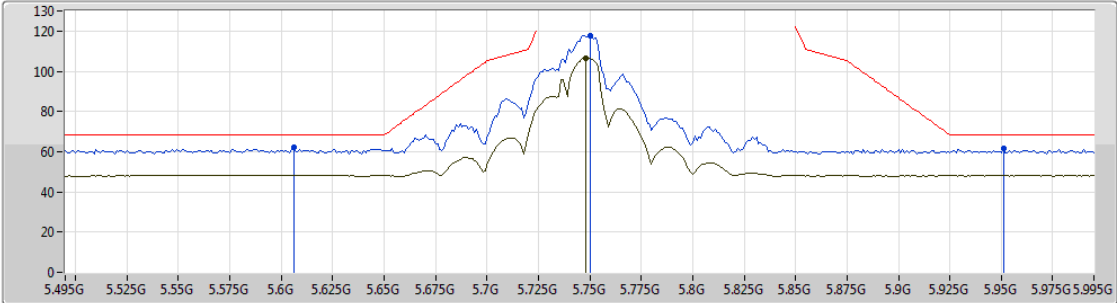
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.48496G	59.86	68.20	-8.34	14.51	3	Horizontal	320	2.99
PK	15.72104G	67.33	74.00	-6.67	15.59	3	Horizontal	307	1.35
AV	15.72096G	52.64	54.00	-1.36	15.59	3	Horizontal	307	1.35



802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5745MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

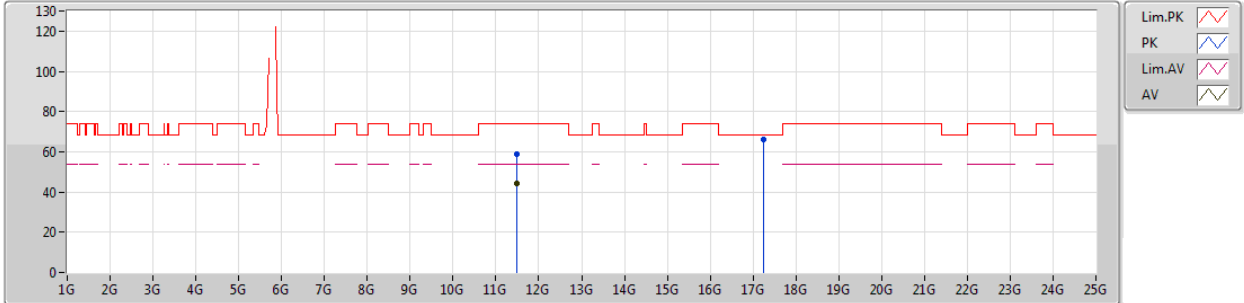
EUT Y_2TX
 Setting 25
 02-R-4-10
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.606G	62.16	68.20	-6.04	9.28	3	Vertical	186	1.61
PK	5.75G	117.88	Inf	-Inf	9.32	3	Vertical	186	1.61
AV	5.748G	106.74	Inf	-Inf	9.32	3	Vertical	186	1.61
PK	5.951G	61.37	68.20	-6.83	9.46	3	Vertical	186	1.61

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5745MHz_TX



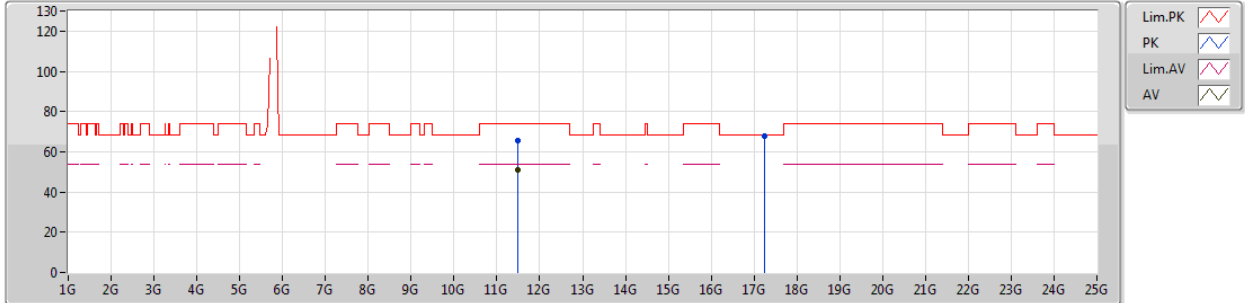
EUT Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.4881G	58.95	74.00	-15.05	14.66	3	Vertical	308	1.39
AV	11.4888G	44.40	54.00	-9.60	14.66	3	Vertical	308	1.39
PK	17.2349G	65.99	68.20	-2.21	20.50	3	Vertical	310	2.96

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5745MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

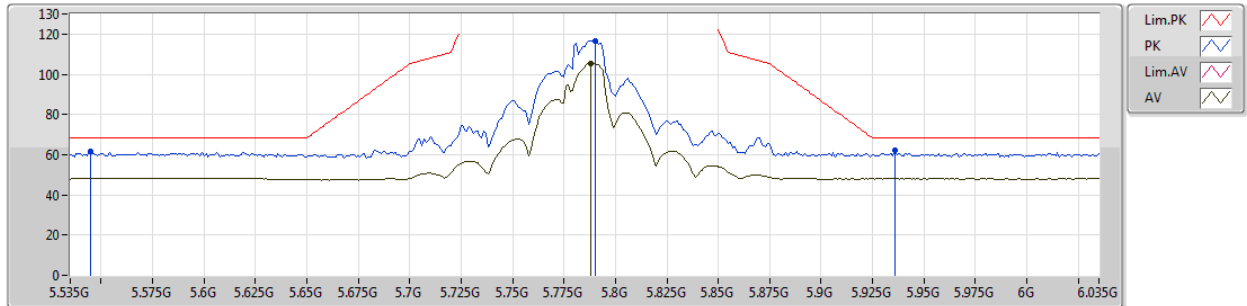
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.4904G	65.34	74.00	-8.66	14.66	3	Horizontal	276	2.59
AV	11.4899G	50.99	54.00	-3.01	14.66	3	Horizontal	276	2.59
PK	17.2417G	67.97	68.20	-0.23	20.54	3	Horizontal	258	1.40



802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5785MHz_TX



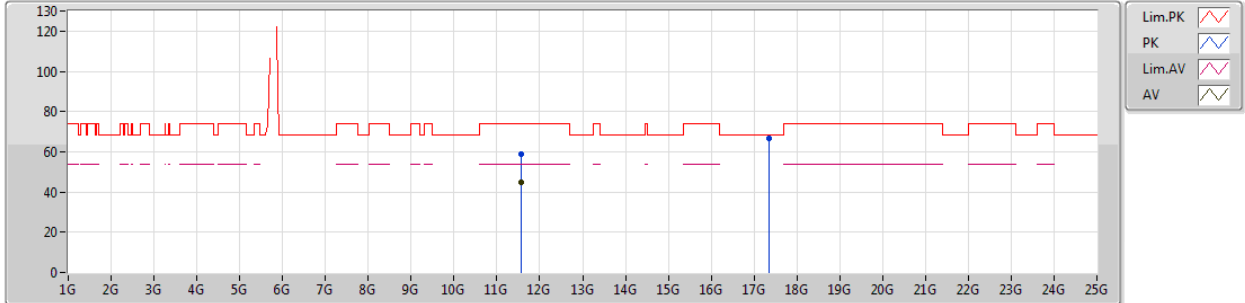
EUT Y_2TX
Setting 25
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.545G	61.58	68.20	-6.62	9.24	3	Vertical	184	1.60
PK	5.79G	116.81	Inf	-Inf	9.33	3	Vertical	184	1.60
AV	5.788G	105.58	Inf	-Inf	9.33	3	Vertical	184	1.60
PK	5.936G	62.28	68.20	-5.92	9.46	3	Vertical	184	1.60

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5785MHz_TX



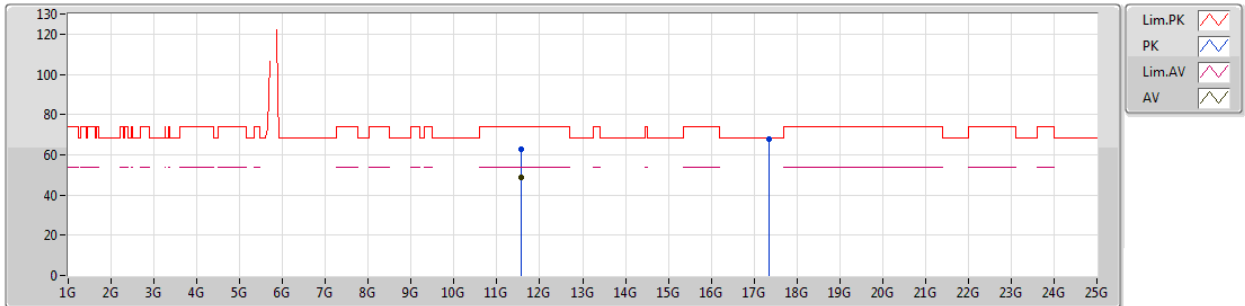
EUT Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5601G	58.89	74.00	-15.11	14.74	3	Vertical	308	1.37
AV	11.5651G	44.69	54.00	-9.31	14.76	3	Vertical	308	1.37
PK	17.3507G	66.64	68.20	-1.56	21.18	3	Vertical	311	2.96

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5785MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

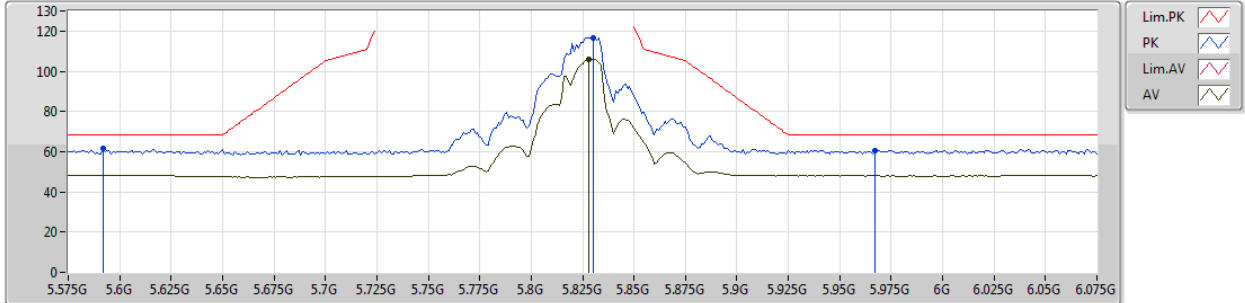
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.568G	63.02	74.00	-10.98	14.76	3	Horizontal	258	2.99
AV	11.5696G	48.92	54.00	-5.08	14.76	3	Horizontal	258	2.99
PK	17.3615G	67.84	68.20	-0.36	21.24	3	Horizontal	267	2.93



802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5825MHz_TX



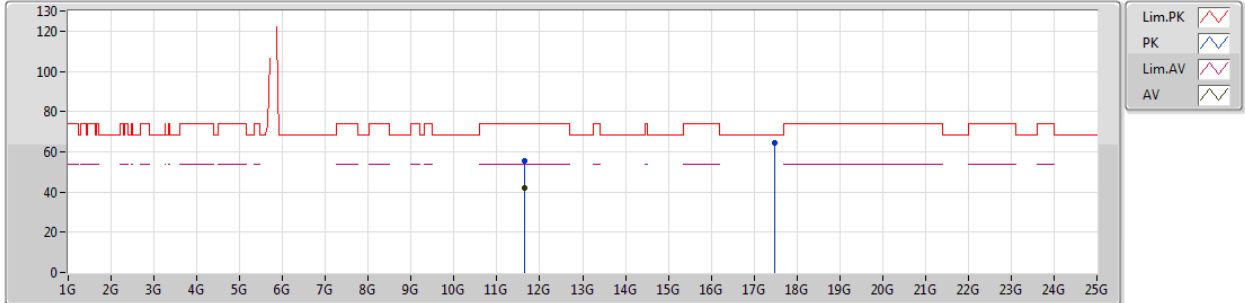
EUT Y_2TX
Setting 21.5
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.592G	61.47	68.20	-6.73	9.27	3	Vertical	218	1.00
PK	5.83G	116.76	Inf	-Inf	9.36	3	Vertical	218	1.00
AV	5.828G	106.04	Inf	-Inf	9.36	3	Vertical	218	1.00
PK	5.967G	60.75	68.20	-7.45	9.48	3	Vertical	218	1.00

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5825MHz_TX



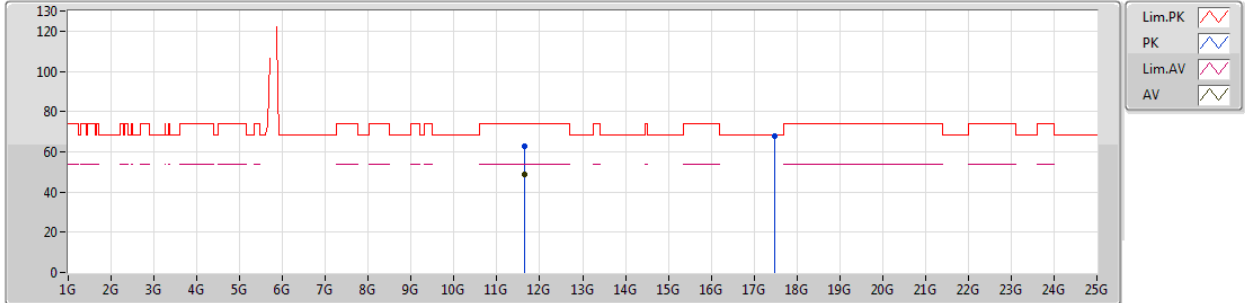
EUT_Y_2TX
Setting 21.5
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.6418G	55.67	74.00	-18.33	14.84	3	Vertical	312	1.50
AV	11.6466G	42.03	54.00	-11.97	14.84	3	Vertical	312	1.50
PK	17.4892G	64.58	68.20	-3.62	21.99	3	Vertical	338	1.41

802.11ac VHT20_Nss1,(MCS0)_2TX

28/09/2018

5825MHz_TX



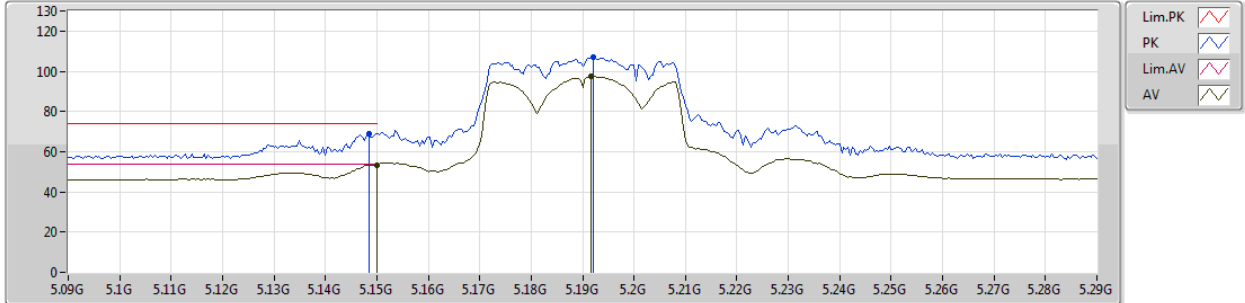
EUT_Y_2TX
Setting 21.5
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.648G	62.88	74.00	-11.12	14.84	3	Horizontal	284	2.78
AV	11.6491G	48.64	54.00	-5.36	14.84	3	Horizontal	284	2.78
PK	17.4757G	67.73	68.20	-0.47	21.92	3	Horizontal	277	2.23

802.11ac VHT40_Nss1,(MCS0)_2TX

19/09/2018

5190MHz_TX



EUT Y_2TX
Setting 17
02-M-1-10
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.1484G	69.07	74.00	-4.93	8.56	3	Vertical	68	2.01
AV	5.15G	53.40	54.00	-0.60	8.56	3	Vertical	68	2.01
PK	5.192G	107.10	Inf	-Inf	8.65	3	Vertical	68	2.01
AV	5.1916G	97.54	Inf	-Inf	8.65	3	Vertical	68	2.01

802.11ac VHT40_Nss1,(MCS0)_2TX

19/09/2018

5190MHz_TX



EUT Y_2TX
Setting 17
02-M-1
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	15.56272G	53.94	74.00	-20.06	15.98	3	Vertical	308	1.50
AV	15.56456G	40.44	54.00	-13.56	15.98	3	Vertical	308	1.50

802.11ac VHT40_Nss1,(MCS0)_2TX

19/09/2018

5190MHz_TX



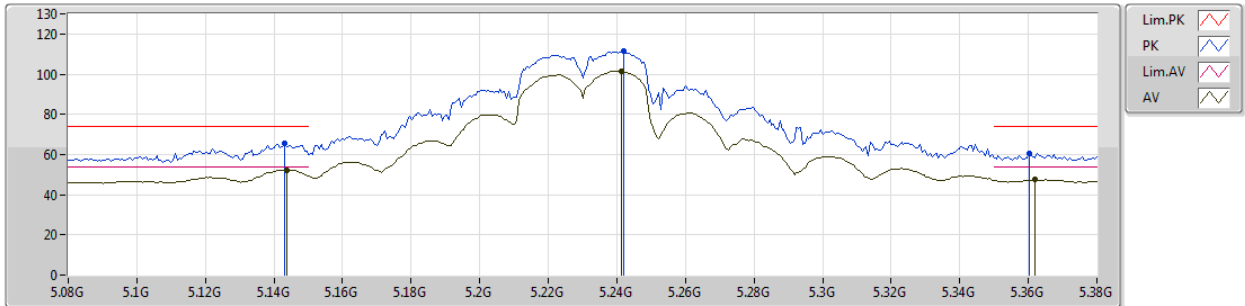
EUT_Y_2TX
Setting 17
02-M-1
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	15.56644G	55.16	74.00	-18.84	15.98	3	Horizontal	279	1.01
AV	15.56808G	41.48	54.00	-12.52	15.98	3	Horizontal	279	1.01

802.11ac VHT40_Nss1,(MCS0)_2TX

19/09/2018

5230MHz_TX



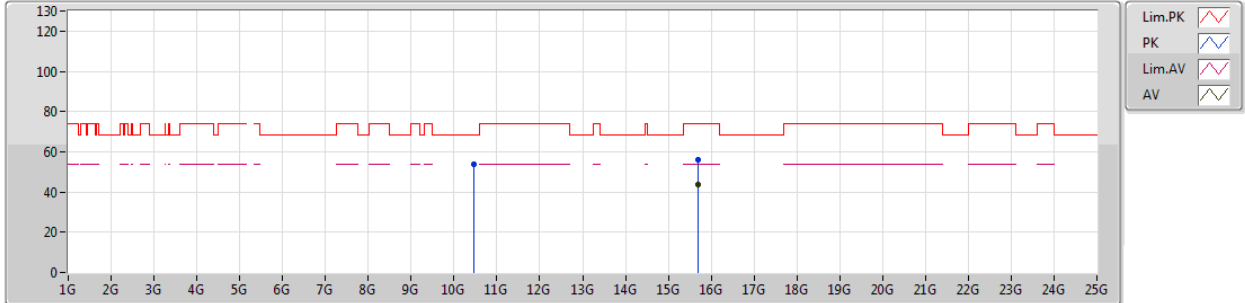
EUT Y_2TX
Setting 2L5
02-M-1-10
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.143G	65.61	74.00	-8.39	8.56	3	Vertical	1	1.75
AV	5.1436G	52.23	54.00	-1.77	8.56	3	Vertical	1	1.75
PK	5.242G	111.47	Inf	-Inf	8.72	3	Vertical	1	1.75
AV	5.2414G	101.29	Inf	-Inf	8.72	3	Vertical	1	1.75
PK	5.3602G	60.64	74.00	-13.36	8.90	3	Vertical	1	1.75
AV	5.362G	47.64	54.00	-6.36	8.90	3	Vertical	1	1.75

802.11ac VHT40_Nss1,(MCS0)_2TX

20/09/2018

5230MHz_TX



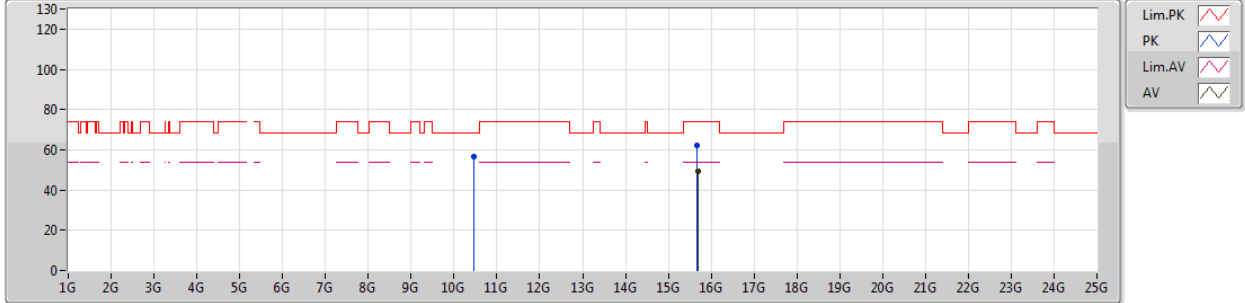
EUT_Y_2TX
Setting 21.5
02-M-1
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4714G	53.68	68.20	-14.52	14.51	3	Vertical	247	1.62
PK	15.6828G	56.26	74.00	-17.74	15.69	3	Vertical	312	2.07
AV	15.685G	43.93	54.00	-10.07	15.68	3	Vertical	312	2.07

802.11ac VHT40_Nss1,(MCS0)_2TX

20/09/2018

5230MHz_TX



EUT Y_2TX
Setting 21.5
02-M-1
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.4662G	56.37	68.20	-11.83	14.52	3	Horizontal	226	1.02
PK	15.6717G	62.15	74.00	-11.85	15.72	3	Horizontal	267	1.25
AV	15.6921G	49.10	54.00	-4.90	15.66	3	Horizontal	267	1.25

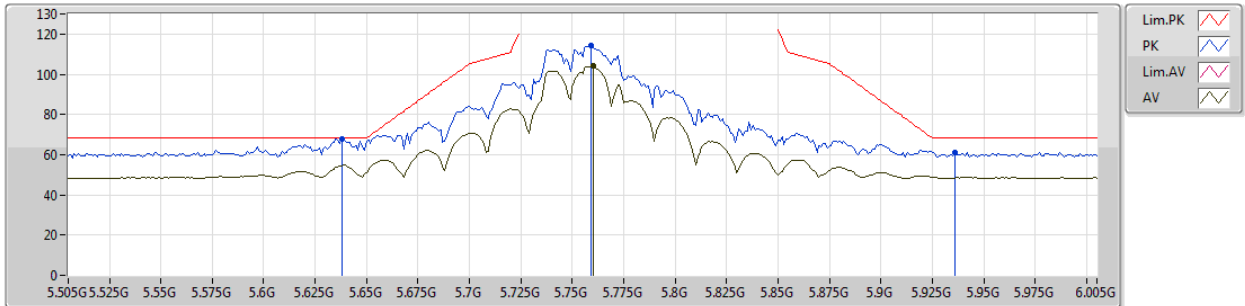


RSE TX above 1GHz Result

802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5755MHz_TX



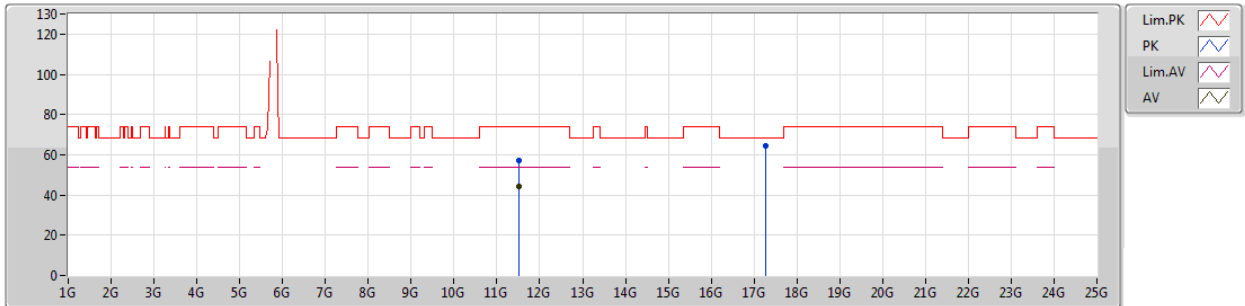
EUT_Y_2TX
Setting 25
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.638G	67.92	68.20	-0.28	9.30	3	Vertical	184	1.78
PK	5.759G	114.06	Inf	-Inf	9.32	3	Vertical	184	1.78
AV	5.76G	103.97	Inf	-Inf	9.32	3	Vertical	184	1.78
PK	5.936G	61.02	68.20	-7.18	9.46	3	Vertical	184	1.78

802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5755MHz_TX



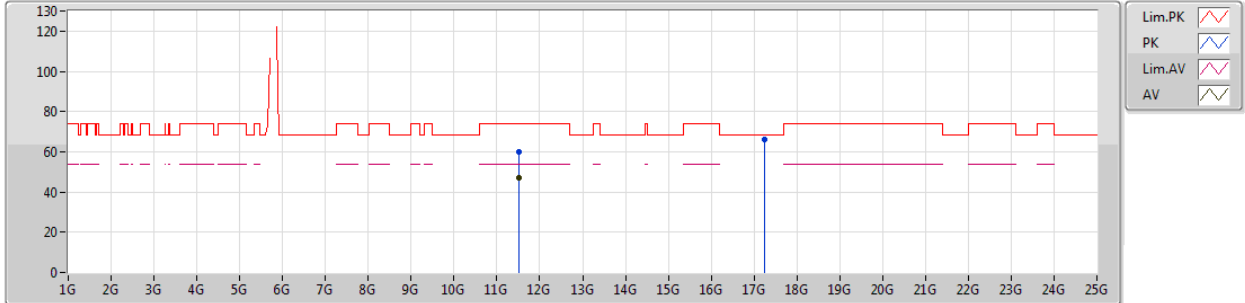
EUT Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5068G	57.26	74.00	-16.74	14.69	3	Vertical	308	1.31
AV	11.51G	44.30	54.00	-9.70	14.69	3	Vertical	308	1.31
PK	17.2744G	64.18	68.20	-4.02	20.73	3	Vertical	306	1.11

802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5755MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

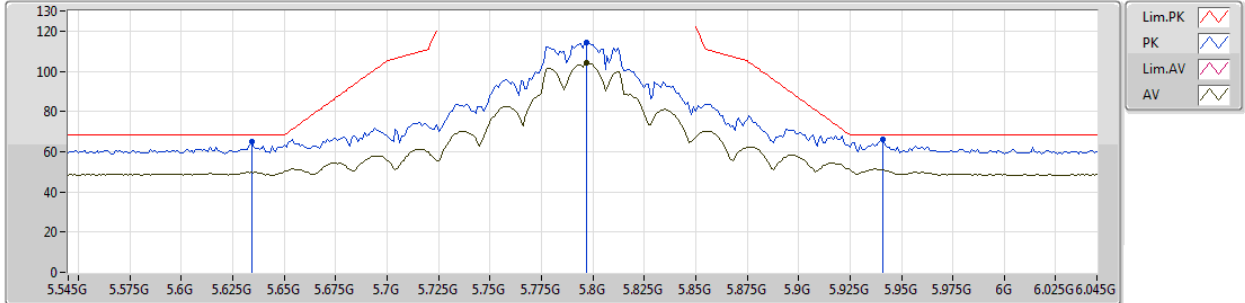
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5067G	59.92	74.00	-14.08	14.69	3	Horizontal	265	2.95
AV	11.5099G	47.25	54.00	-6.75	14.69	3	Horizontal	265	2.95
PK	17.253G	66.37	68.20	-1.83	20.61	3	Horizontal	271	1.39



802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5795MHz_TX



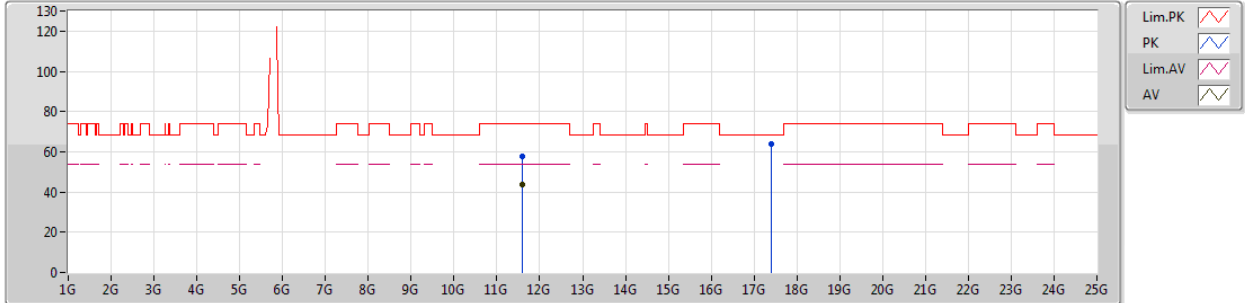
EUT Y_2TX
Setting 25
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.634G	65.25	68.20	-2.95	9.29	3	Vertical	214	1.05
PK	5.797G	114.48	Inf	-Inf	9.33	3	Vertical	214	1.05
AV	5.797G	104.24	Inf	-Inf	9.33	3	Vertical	214	1.05
PK	5.941G	65.85	68.20	-2.35	9.46	3	Vertical	214	1.05

802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5795MHz_TX



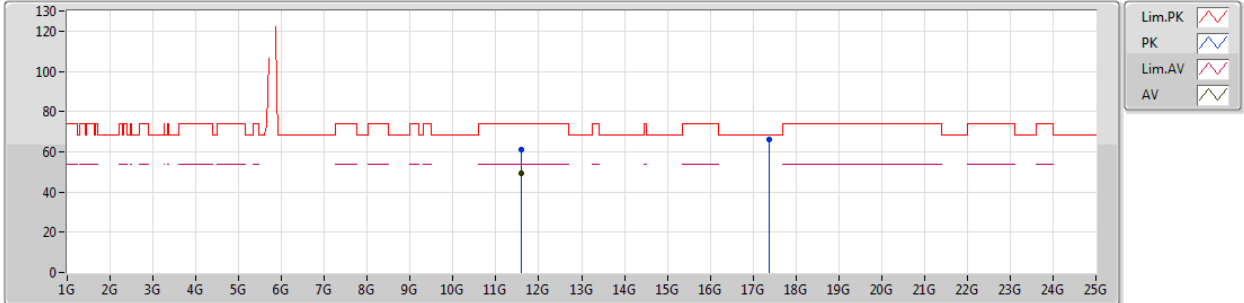
EUT Y_2TX
Setting 25
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5973G	57.54	74.00	-16.46	14.80	3	Vertical	301	1.37
AV	11.5814G	43.90	54.00	-10.10	14.77	3	Vertical	301	1.37
PK	17.4012G	63.99	68.20	-4.21	21.48	3	Vertical	334	1.65

802.11ac VHT40_Nss1,(MCS0)_2TX

28/09/2018

5795MHz_TX



EUT_Y_2TX
Setting 25
02-R-4
FSP

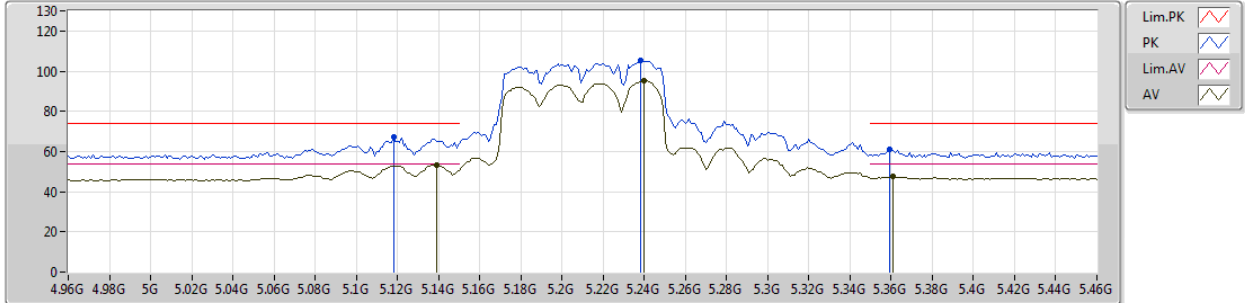
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5865G	61.31	74.00	-12.69	14.78	3	Horizontal	282	2.84
AV	11.5901G	49.05	54.00	-4.95	14.78	3	Horizontal	282	2.84
PK	17.3706G	65.97	68.20	-2.23	21.30	3	Horizontal	295	1.18



802.11ac VHT80_Nss1,(MCS0)_2TX

20/09/2018

5210MHz_TX



EUT Y_2TX
Setting 18
02-M-1-10
FSU(100050)

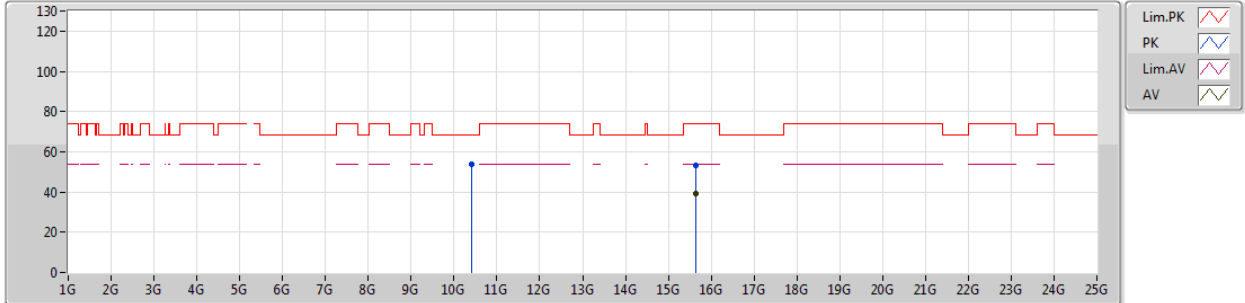
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.118G	67.11	74.00	-6.89	8.51	3	Vertical	9	1.67
AV	5.139G	53.31	54.00	-0.69	8.55	3	Vertical	9	1.67
PK	5.238G	105.08	Inf	-Inf	8.72	3	Vertical	9	1.67
AV	5.24G	95.50	Inf	-Inf	8.72	3	Vertical	9	1.67
PK	5.359G	60.90	74.00	-13.10	8.89	3	Vertical	9	1.67
AV	5.361G	47.59	54.00	-6.41	8.90	3	Vertical	9	1.67



802.11ac VHT80_Nss1,(MCS0)_2TX

20/09/2018

5210MHz_TX



EUT_Y_2TX
Setting 18
02-M-1
FSU(100050)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.414G	53.82	68.20	-14.38	14.55	3	Vertical	149	1.14
PK	15.63272G	53.26	74.00	-20.74	15.81	3	Vertical	0	1.99
AV	15.63556G	39.34	54.00	-14.66	15.80	3	Vertical	0	1.99

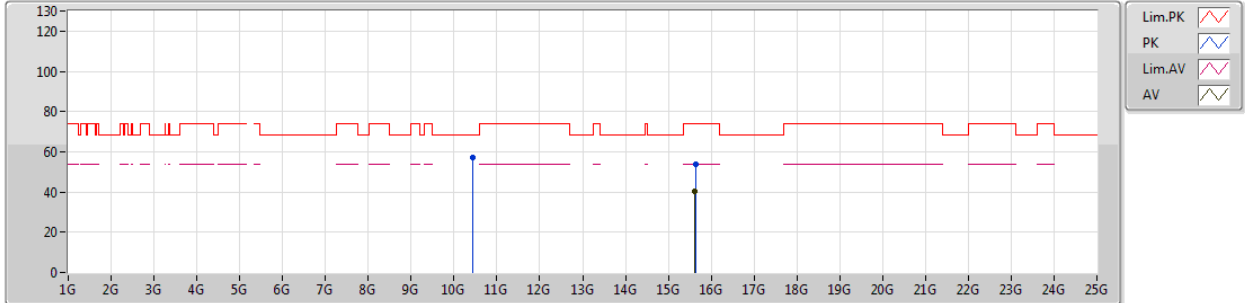


RSE TX above 1GHz Result

802.11ac VHT80_Nss1,(MCS0)_2TX

20/09/2018

5210MHz_TX



EUT_Y_2TX
Setting 18
02-M-1
FSU(100050)

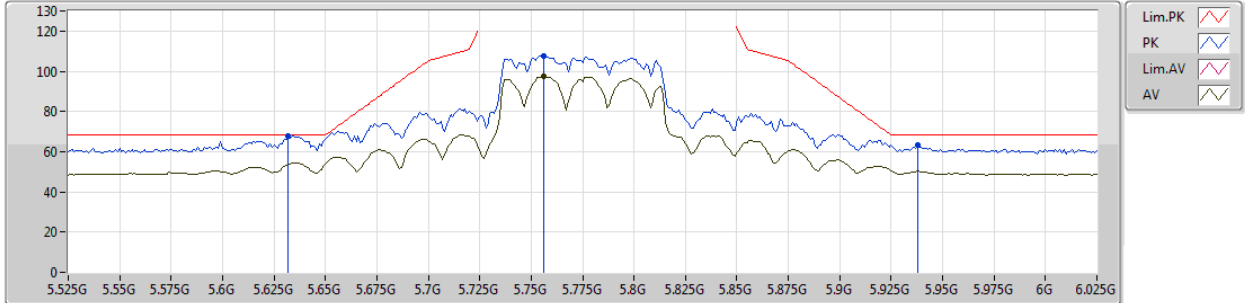
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	10.42568G	56.89	68.20	-11.31	14.55	3	Horizontal	210	1.03
PK	15.63052G	53.69	74.00	-20.31	15.81	3	Horizontal	266	1.18
AV	15.62796G	40.16	54.00	-13.84	15.82	3	Horizontal	266	1.18



802.11ac VHT80_Nss1,(MCS0)_2TX

28/09/2018

5775MHz_TX



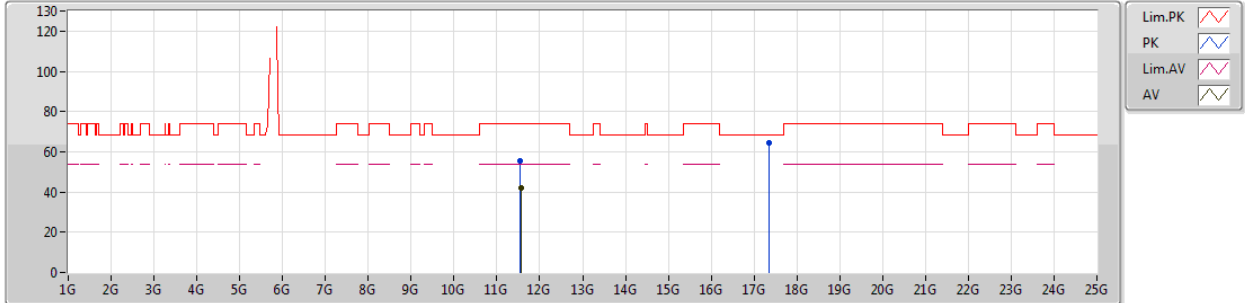
EUT Y_2TX
Setting 20
02-R-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	5.632G	67.86	68.20	-0.34	9.29	3	Vertical	189	2.55
PK	5.756G	107.59	Inf	-Inf	9.32	3	Vertical	189	2.55
AV	5.756G	97.67	Inf	-Inf	9.32	3	Vertical	189	2.55
PK	5.938G	63.31	68.20	-4.89	9.46	3	Vertical	189	2.55

802.11ac VHT80_Nss1,(MCS0)_2TX

28/09/2018

5775MHz_TX



EUT Y_2TX
Setting 20
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5411G	55.31	74.00	-18.69	14.73	3	Vertical	307	1.33
AV	11.5604G	41.86	54.00	-12.14	14.74	3	Vertical	307	1.33
PK	17.343G	64.44	68.20	-3.76	21.13	3	Vertical	293	1.50

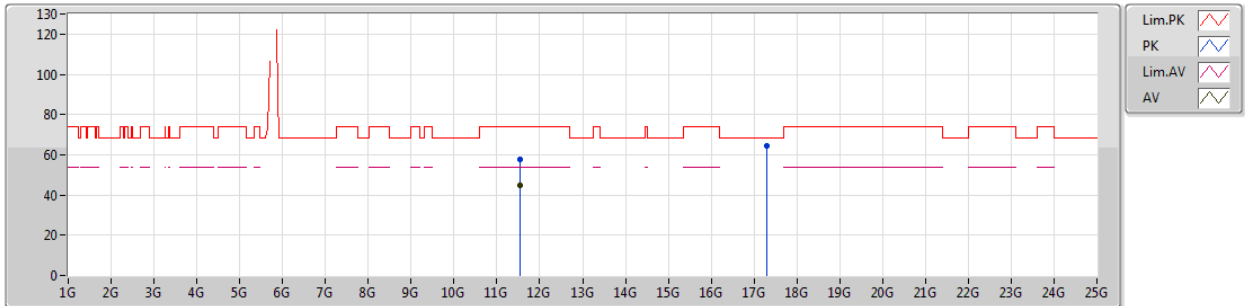


RSE TX above 1GHz Result

802.11ac VHT80_Nss1,(MCS0)_2TX

28/09/2018

5775MHz_TX



EUT_Y_2TX
Setting 20
02-R-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
PK	11.5293G	57.87	74.00	-16.13	14.71	3	Horizontal	283	2.51
AV	11.5497G	44.95	54.00	-9.05	14.73	3	Horizontal	283	2.51
PK	17.3035G	64.42	68.20	-3.78	20.90	3	Horizontal	308	1.50

