



FCC RADIO TEST REPORT

FCC ID : TE7RE220
Equipment : AC750 Wi-Fi Range Extender
Brand Name : tp-link
Model Name : RE200, RE220
Applicant : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4),
Central Science and Technology Park,Nanshan
Shenzhen, 518057 China
Manufacturer : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4),
Central Science and Technology Park,Nanshan
Shenzhen, 518057 China
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 15, 2018, and testing was started from Oct. 22, 2018 and completed on Dec. 04, 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 variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.


Approved by: Sam Chen

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



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	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Sam Chen

Report Producer: Cindy Peng



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX
5.25-5.35GHz	802.11n HT20	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11n HT40	40	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11a	20	1TX
5.47-5.725GHz	802.11n HT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11n HT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX

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	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
1	1	TP-LINK	-	Printed Antenna	N/A	1.95	WLAN 2.4GHz
2	2	TP-LINK	-	Printed Antenna	N/A	1.96	WLAN 2.4GHz
3	1	TP-LINK	-	Printed Antenna	Murata	2.98	WLAN 5GHz

Note: The EUT has three antennas.

Ant. 1 and Ant. 2 supports 2.4GHz WLAN function, and Ant. 3 supports 5GHz WLAN function.

For WLAN 2.4GHz function (2TX/2RX):

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz function (1TX/1RX):

Only Port 1 could transmit/receive.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
Function	<input type="checkbox"/>	Outdoor P2P	<input checked="" type="checkbox"/>	Indoor P2P
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
TPC Function	<input checked="" type="checkbox"/>	With TPC	<input type="checkbox"/>	Without TPC
Test Software Version	MT7xxE QA V2.0.10.0			



1.1.5 Table for Multiple Listing

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

Model Name	Description
RE200	There is nothing different of two models, just for different marketing use.
RE220	

From the above models, model: RE220 was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR8O1215

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

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	<ol style="list-style-type: none">1. Emission Bandwidth.2. Maximum Conducted Output Power.3. Peak Power Spectral Density.4. Unwanted Emissions Above 1GHz.



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 412172 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWAYA	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	Eason Chen	20°C / 60%	Oct. 25, 2018~Dec. 04, 2018
Radiated	03CH01-CB	Paul Chen	22°C / 54%	Oct. 22, 2018~Dec. 03, 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
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	9.74×10^{-8}	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	19
5300MHz	18
5320MHz	14
5500MHz	10
5580MHz	10
5700MHz	0F
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5260MHz	19
5300MHz	18
5320MHz	15
5500MHz	11
5580MHz	15
5700MHz	10
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5270MHz	1A
5310MHz	0C
5510MHz	0A
5550MHz	18
5670MHz	15
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5290MHz	07
5530MHz	07
5610MHz	14

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	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	CTX - EUT in Z axis
2	CTX - EUT in Y axis
Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	

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.: FA8O1215-01 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



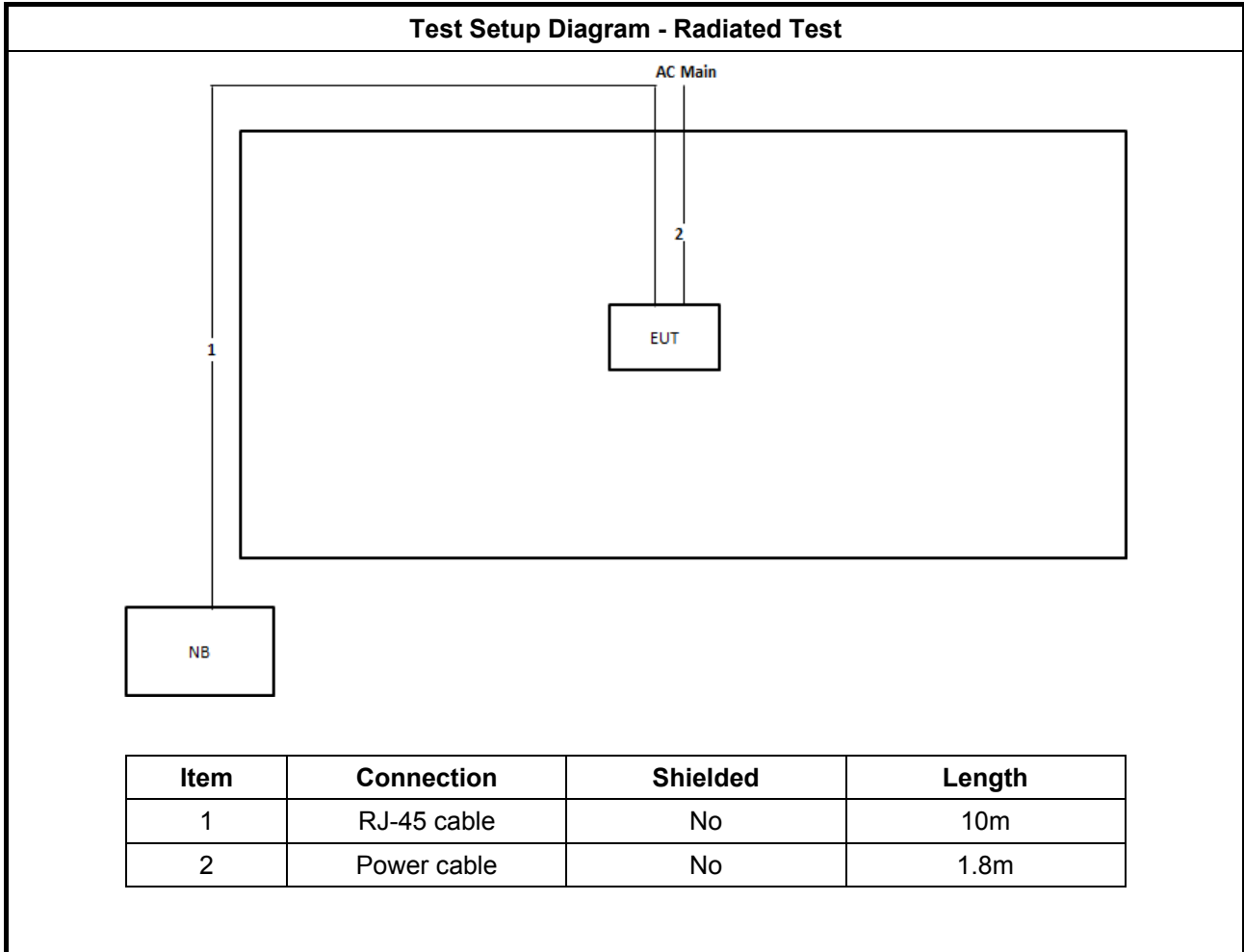
2.4 Accessories

N/A

2.5 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A

2.6 Test Setup Diagram





3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" 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 checked="" 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 type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 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 ≥ 500kHz.

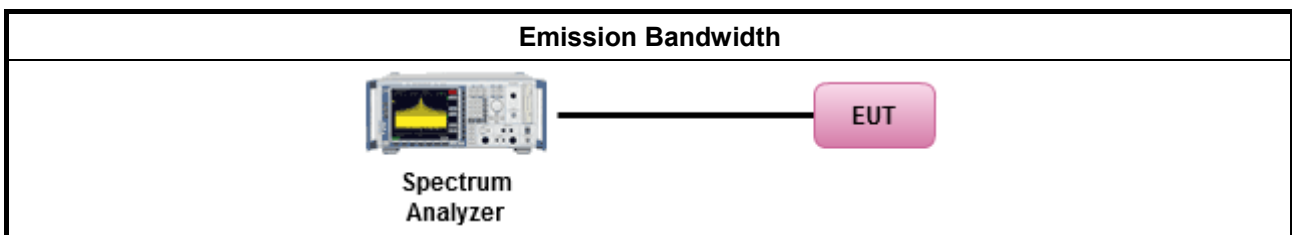
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
<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.

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input 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 checked="" 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 checked="" 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 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.	

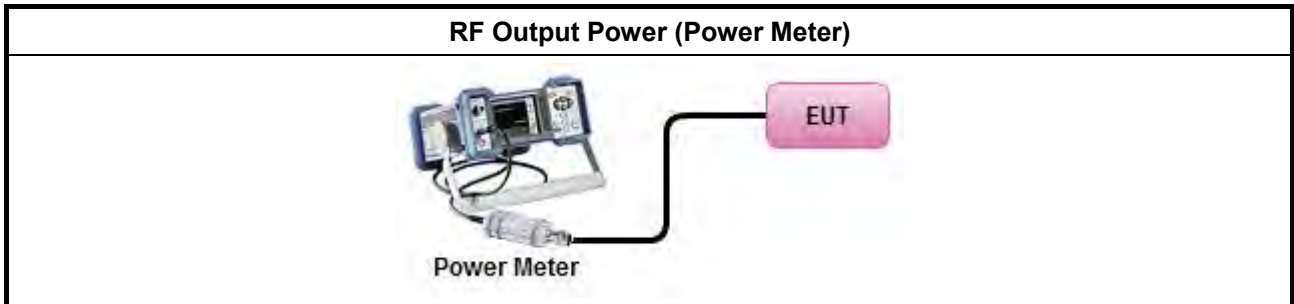
3.2.2 Measuring Instruments

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"> ▪ 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]) $EIRP_{total} = P_{total} + DG$ 	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<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 checked="" 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 checked="" 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 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 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.
<input type="checkbox"/>	<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 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) 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:
<input type="checkbox"/>	<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.	

3.3.2 Measuring Instruments

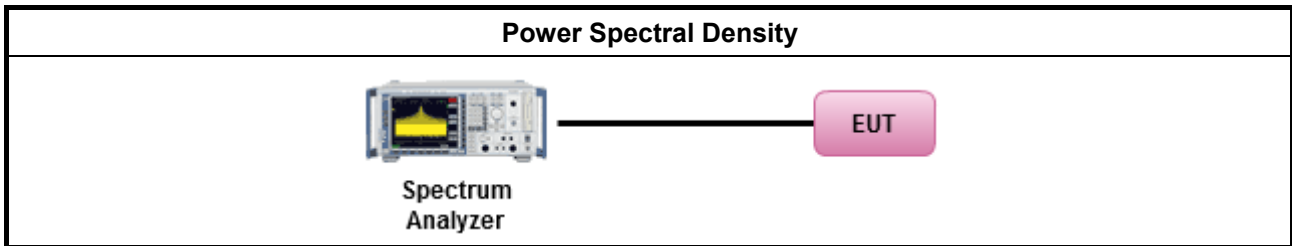
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter 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 type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input 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).

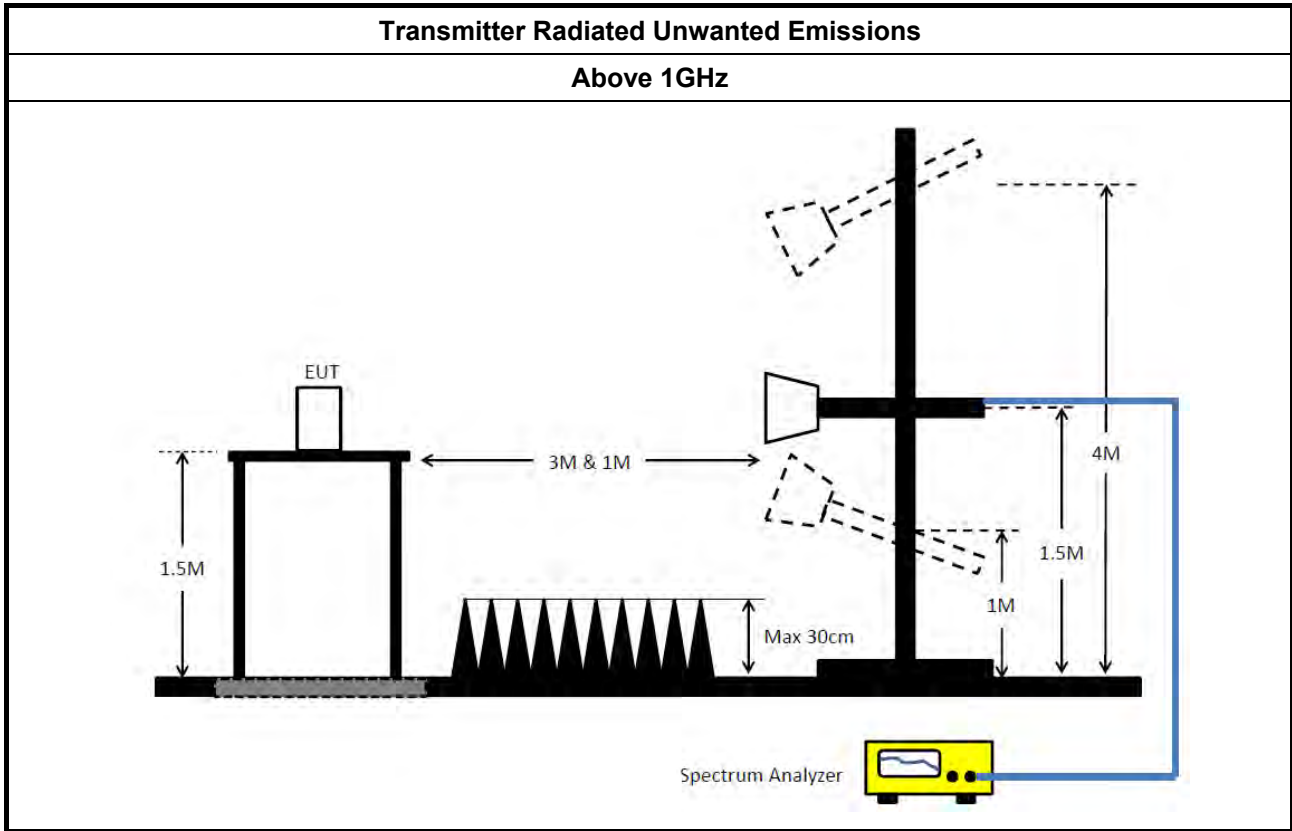
3.4.2 Measuring Instruments

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"> ▪ 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 G)2) for unwanted emissions into non-restricted bands. ▪ Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). <input checked="" type="checkbox"/> Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). <input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit. <input type="checkbox"/> Refer as 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"> ▪ 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.

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 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-HG	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)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	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)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	39.45M	19.615M	19M6D1D	34.925M	16.642M
802.11ac VHT20_Nss1,(MCS0)_1TX	43.65M	18.891M	18M9D1D	42.175M	17.716M
802.11ac VHT40_Nss1,(MCS0)_1TX	92.5M	39.93M	39M9D1D	41.35M	36.132M
802.11ac VHT80_Nss1,(MCS0)_1TX	97.1M	75.262M	75M3D1D	97.1M	75.262M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	25.325M	16.542M	16M5D1D	23.175M	16.467M
802.11ac VHT20_Nss1,(MCS0)_1TX	42.1M	17.791M	17M8D1D	21.65M	17.541M
802.11ac VHT40_Nss1,(MCS0)_1TX	93.9M	37.831M	37M8D1D	41.1M	36.082M
802.11ac VHT80_Nss1,(MCS0)_1TX	171M	76.262M	76M3D1D	98.3M	75.662M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

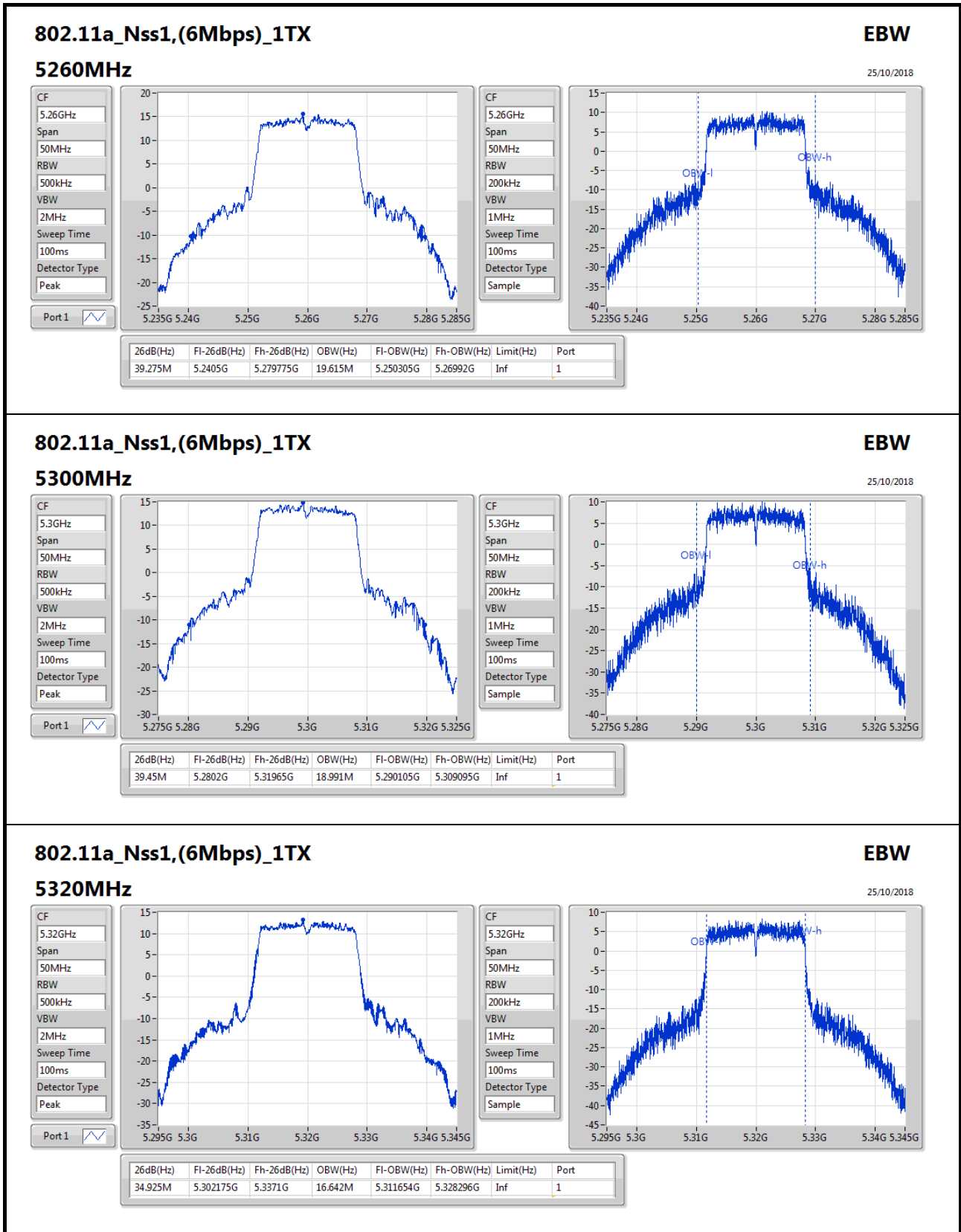
Min-OBW = Minimum 99% occupied bandwidth;

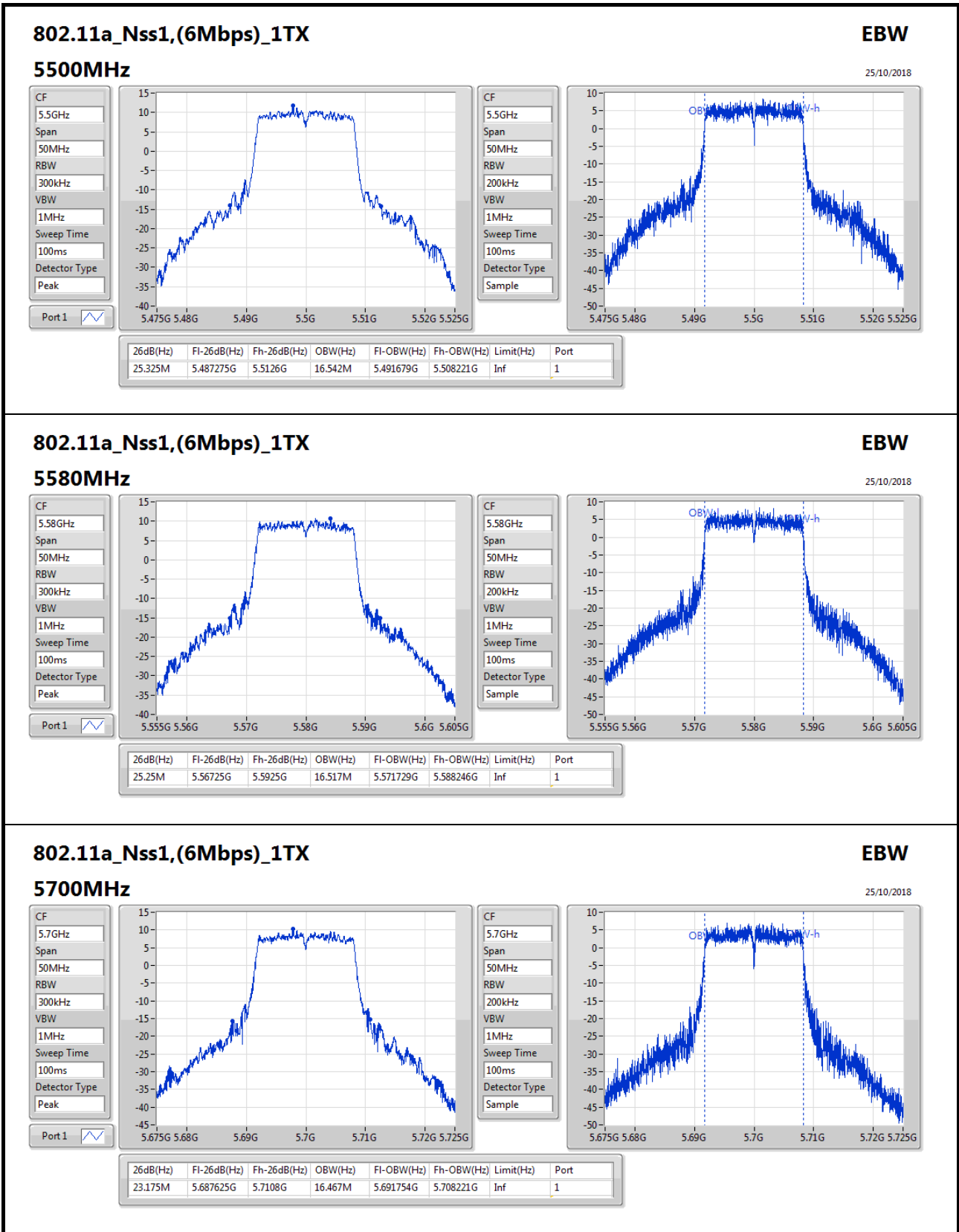


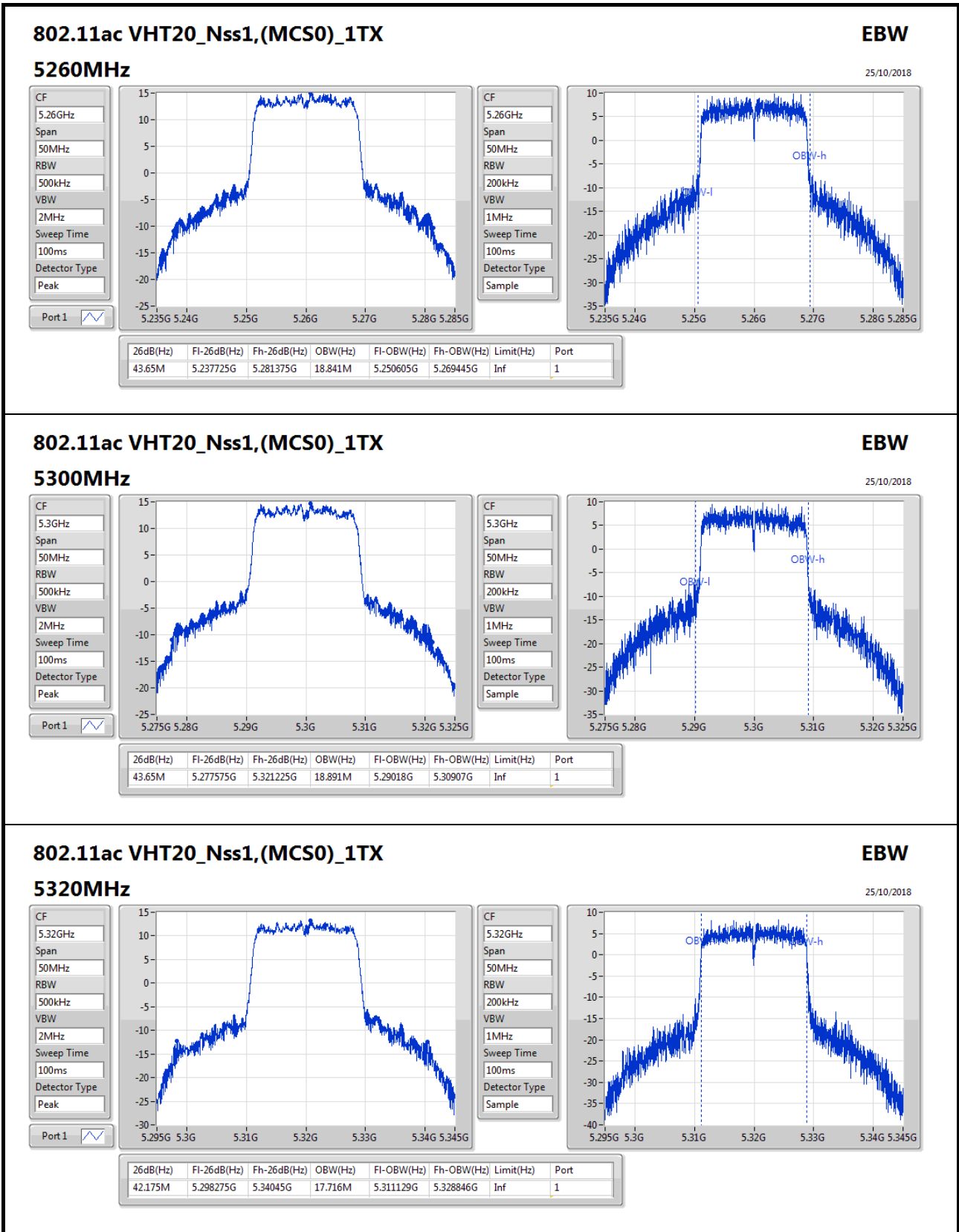
Result

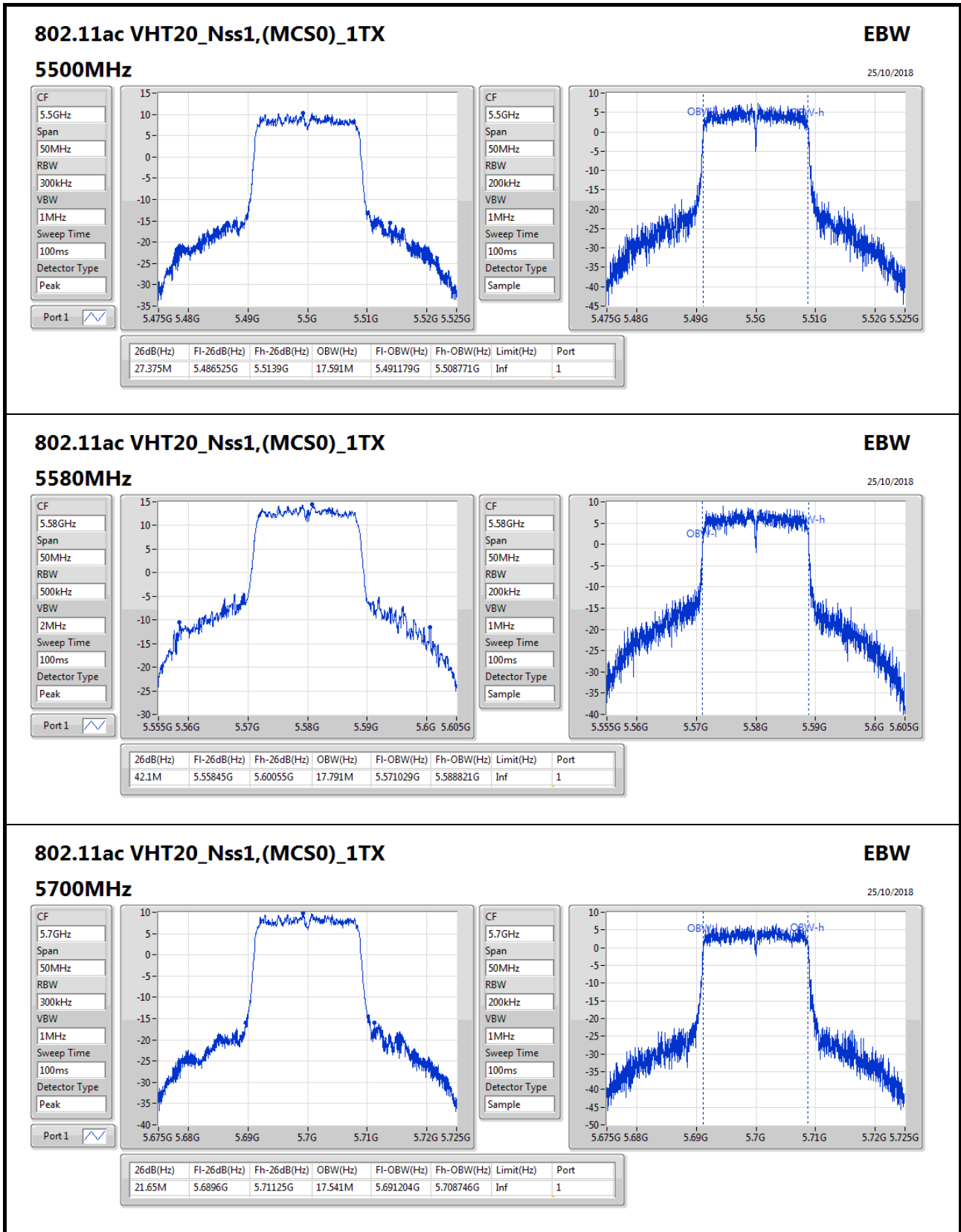
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	39.275M	19.615M
5300MHz	Pass	Inf	39.45M	18.991M
5320MHz	Pass	Inf	34.925M	16.642M
5500MHz	Pass	Inf	25.325M	16.542M
5580MHz	Pass	Inf	25.25M	16.517M
5700MHz	Pass	Inf	23.175M	16.467M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	43.65M	18.841M
5300MHz	Pass	Inf	43.65M	18.891M
5320MHz	Pass	Inf	42.175M	17.716M
5500MHz	Pass	Inf	27.375M	17.591M
5580MHz	Pass	Inf	42.1M	17.791M
5700MHz	Pass	Inf	21.65M	17.541M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	92.5M	39.93M
5310MHz	Pass	Inf	41.35M	36.132M
5510MHz	Pass	Inf	41.1M	36.082M
5550MHz	Pass	Inf	93.9M	37.831M
5670MHz	Pass	Inf	76.8M	36.482M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	97.1M	75.262M
5530MHz	Pass	Inf	98.3M	75.662M
5610MHz	Pass	Inf	171M	76.262M

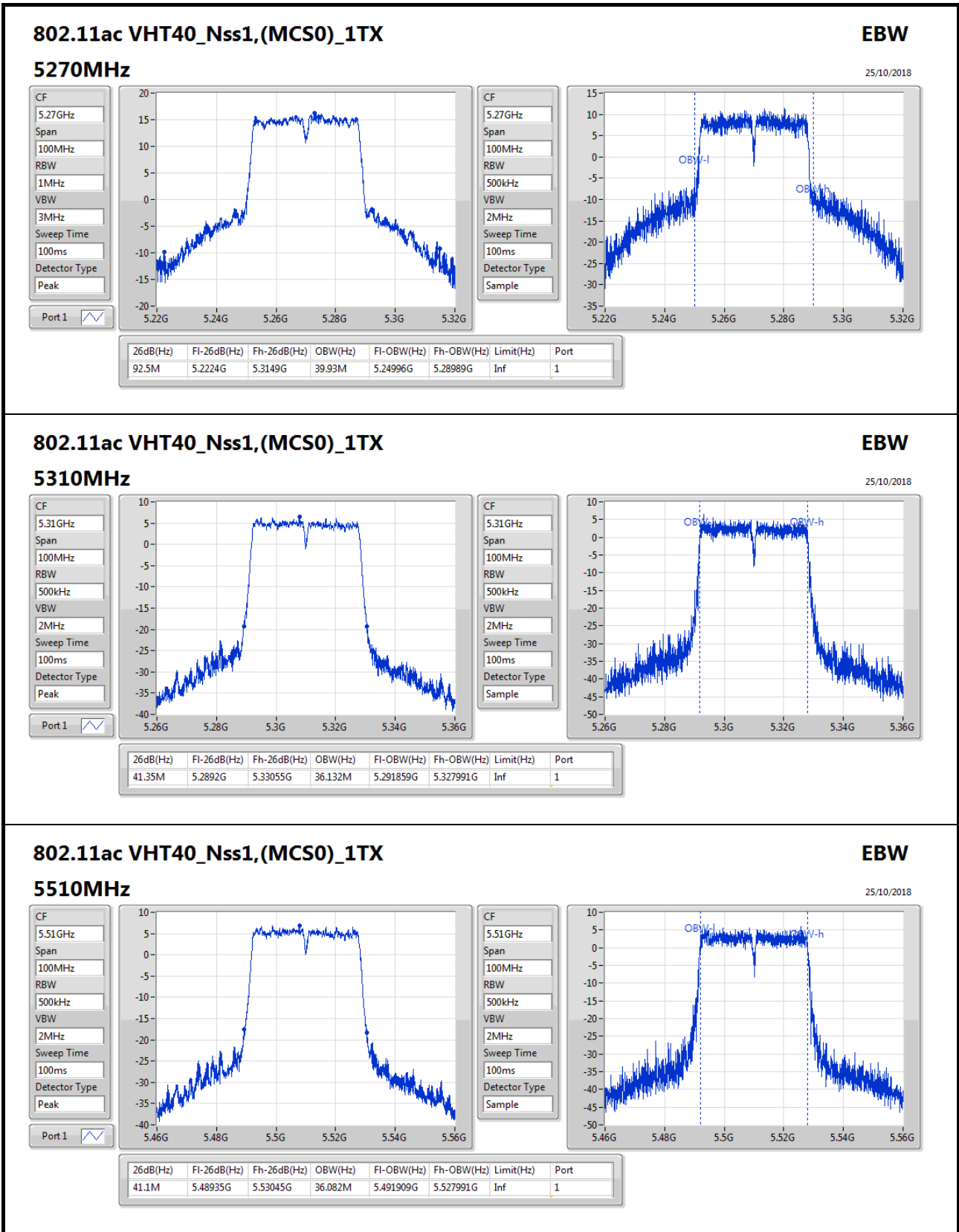
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth;

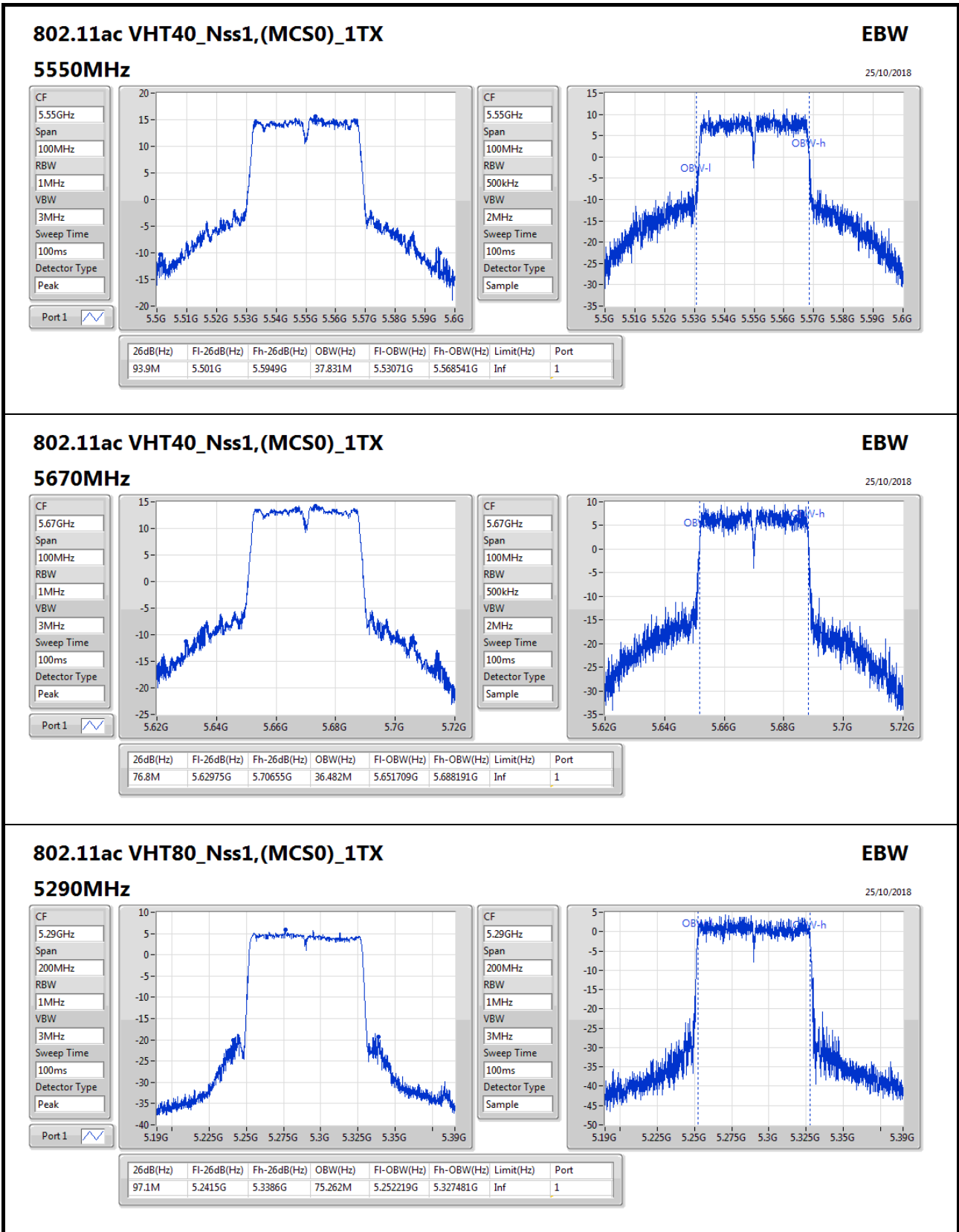


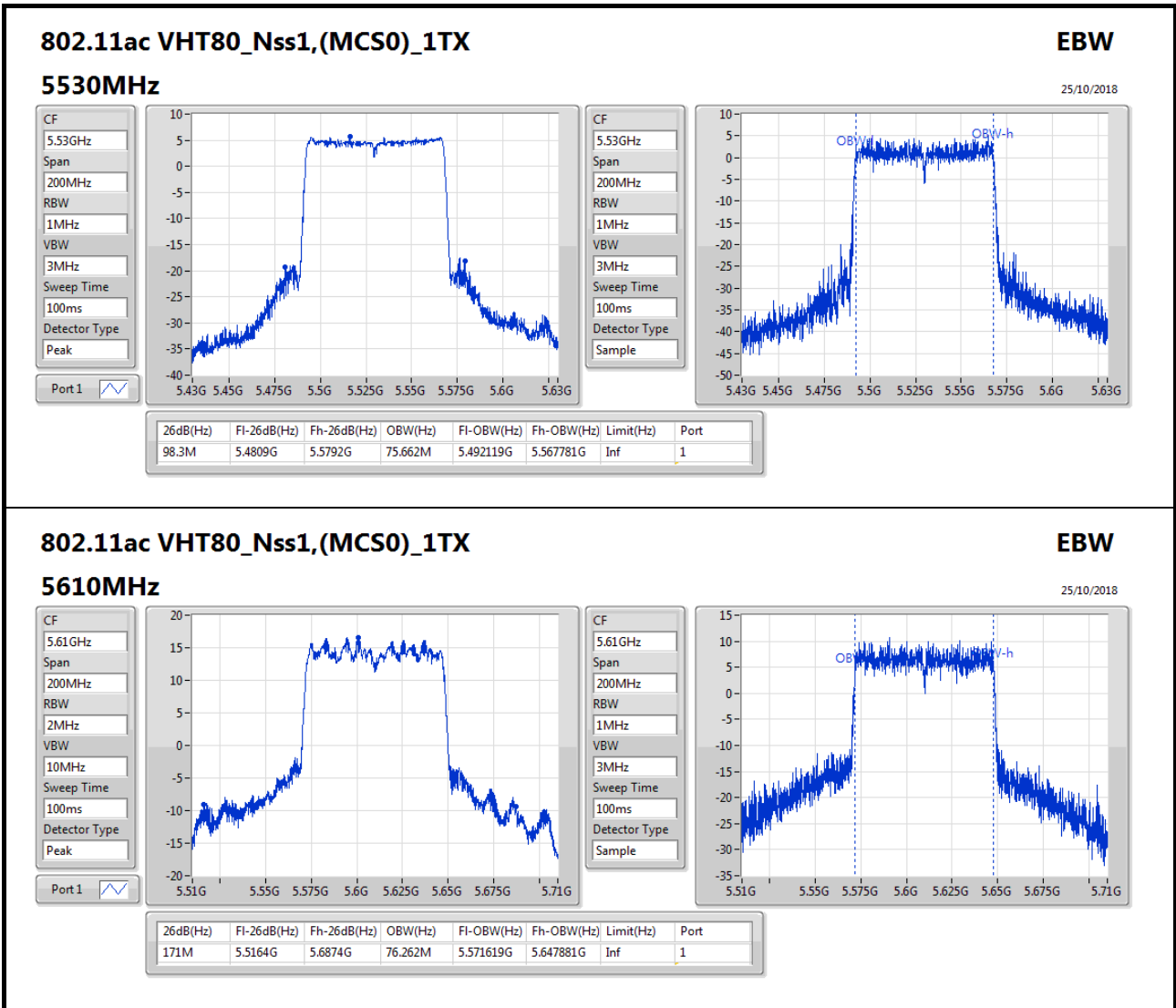














Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	22.39	0.17338
802.11ac VHT20_Nss1,(MCS0)_1TX	22.16	0.16444
802.11ac VHT40_Nss1,(MCS0)_1TX	22.42	0.17458
802.11ac VHT80_Nss1,(MCS0)_1TX	15.22	0.03327
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.34	0.10814
802.11ac VHT20_Nss1,(MCS0)_1TX	21.60	0.14454
802.11ac VHT40_Nss1,(MCS0)_1TX	22.19	0.16558
802.11ac VHT80_Nss1,(MCS0)_1TX	21.01	0.12618



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5260MHz	Pass	2.98	22.39	22.39	23.98
5300MHz	Pass	2.98	21.95	21.95	23.98
5320MHz	Pass	2.98	20.55	20.55	23.98
5500MHz	Pass	2.98	20.34	20.34	23.98
5580MHz	Pass	2.98	20.13	20.13	23.98
5700MHz	Pass	2.98	18.93	18.93	23.98
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5260MHz	Pass	2.98	22.16	22.16	23.98
5300MHz	Pass	2.98	21.95	21.95	23.98
5320MHz	Pass	2.98	20.53	20.53	23.98
5500MHz	Pass	2.98	19.90	19.90	23.98
5580MHz	Pass	2.98	21.60	21.60	23.98
5700MHz	Pass	2.98	19.31	19.31	23.98
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5270MHz	Pass	2.98	22.42	22.42	23.98
5310MHz	Pass	2.98	16.85	16.85	23.98
5510MHz	Pass	2.98	17.24	17.24	23.98
5550MHz	Pass	2.98	22.19	22.19	23.98
5670MHz	Pass	2.98	20.96	20.96	23.98
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5290MHz	Pass	2.98	15.22	15.22	23.98
5530MHz	Pass	2.98	15.72	15.72	23.98
5610MHz	Pass	2.98	21.01	21.01	23.98

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



Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_1TX	9.23
802.11ac VHT20_Nss1,(MCS0)_1TX	8.69
802.11ac VHT40_Nss1,(MCS0)_1TX	5.84
802.11ac VHT80_Nss1,(MCS0)_1TX	-4.66
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_1TX	6.99
802.11ac VHT20_Nss1,(MCS0)_1TX	8.05
802.11ac VHT40_Nss1,(MCS0)_1TX	5.44
802.11ac VHT80_Nss1,(MCS0)_1TX	1.57

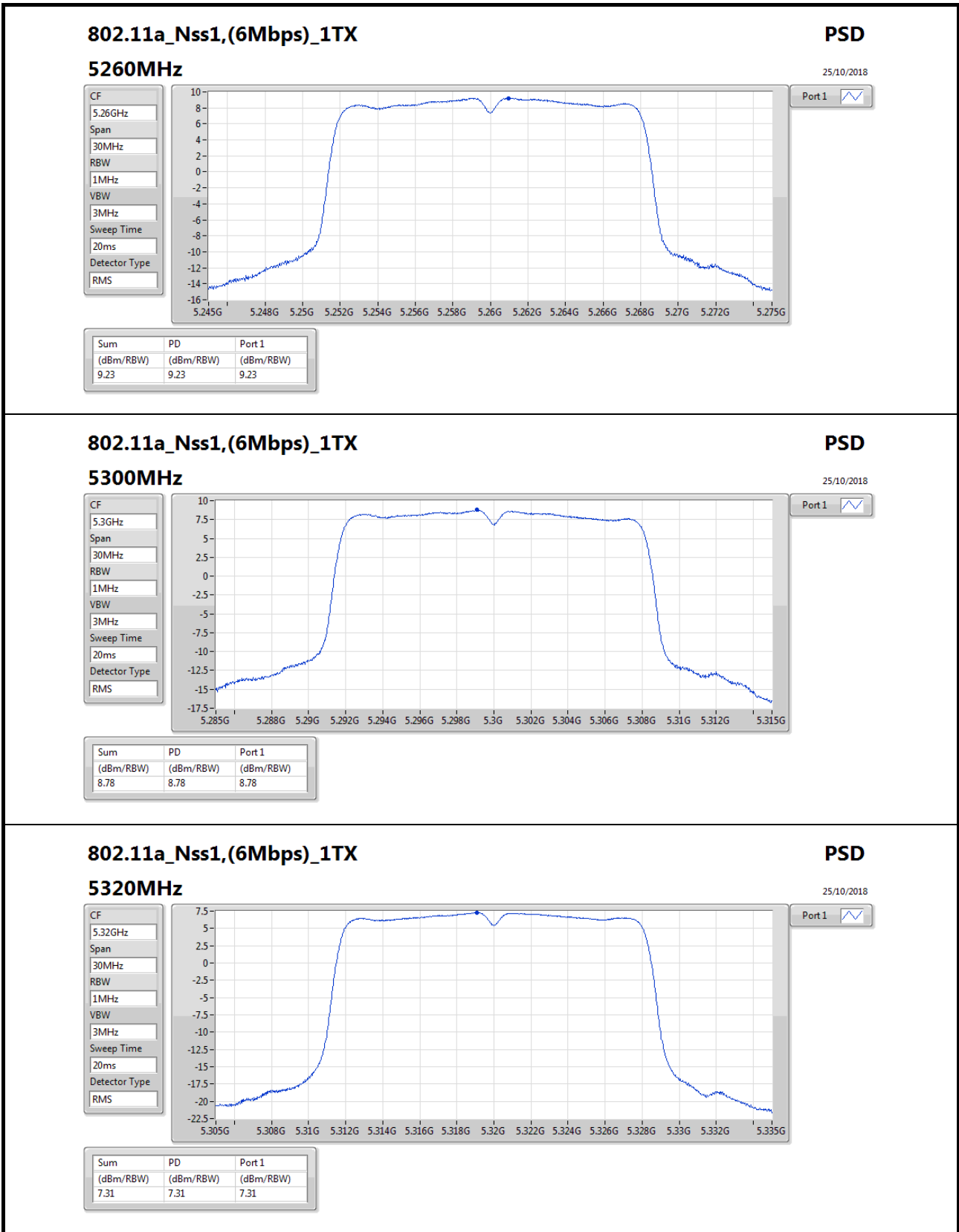
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5260MHz	Pass	2.98	9.23	9.23	11.00
5300MHz	Pass	2.98	8.78	8.78	11.00
5320MHz	Pass	2.98	7.31	7.31	11.00
5500MHz	Pass	2.98	6.99	6.99	11.00
5580MHz	Pass	2.98	6.93	6.93	11.00
5700MHz	Pass	2.98	5.66	5.66	11.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5260MHz	Pass	2.98	8.69	8.69	11.00
5300MHz	Pass	2.98	8.40	8.40	11.00
5320MHz	Pass	2.98	7.00	7.00	11.00
5500MHz	Pass	2.98	6.36	6.36	11.00
5580MHz	Pass	2.98	8.05	8.05	11.00
5700MHz	Pass	2.98	5.95	5.95	11.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5270MHz	Pass	2.98	5.84	5.84	11.00
5310MHz	Pass	2.98	0.27	0.27	11.00
5510MHz	Pass	2.98	0.58	0.58	11.00
5550MHz	Pass	2.98	5.44	5.44	11.00
5670MHz	Pass	2.98	4.12	4.12	11.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5290MHz	Pass	2.98	-4.66	-4.66	11.00
5530MHz	Pass	2.98	-3.84	-3.84	11.00
5610MHz	Pass	2.98	1.57	1.57	11.00

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

5320MHz

PSD

25/10/2018

CF

5.32GHz

Span

30MHz

RBW

1MHz

VBW

3MHz

Sweep Time

20ms

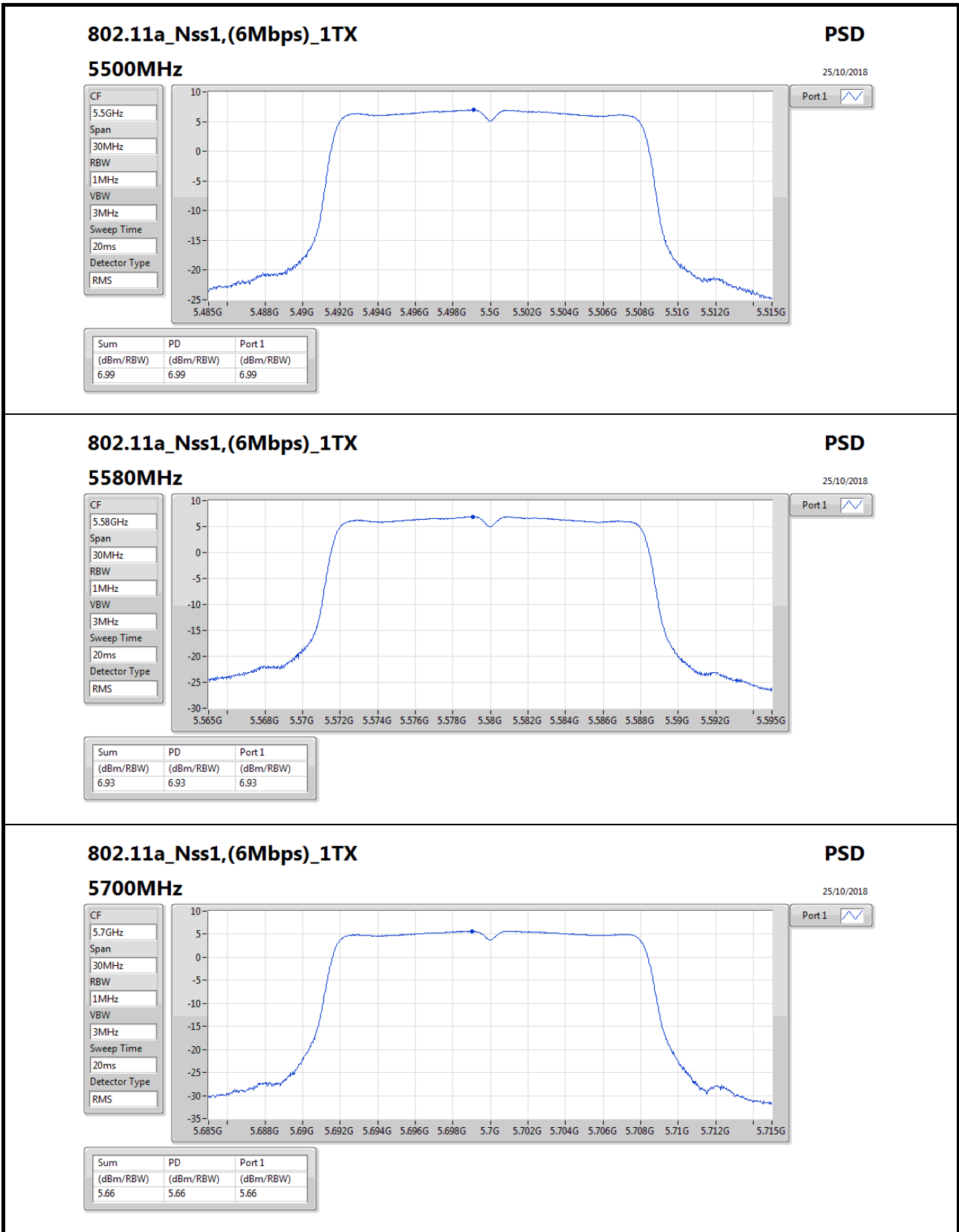
Detector Type

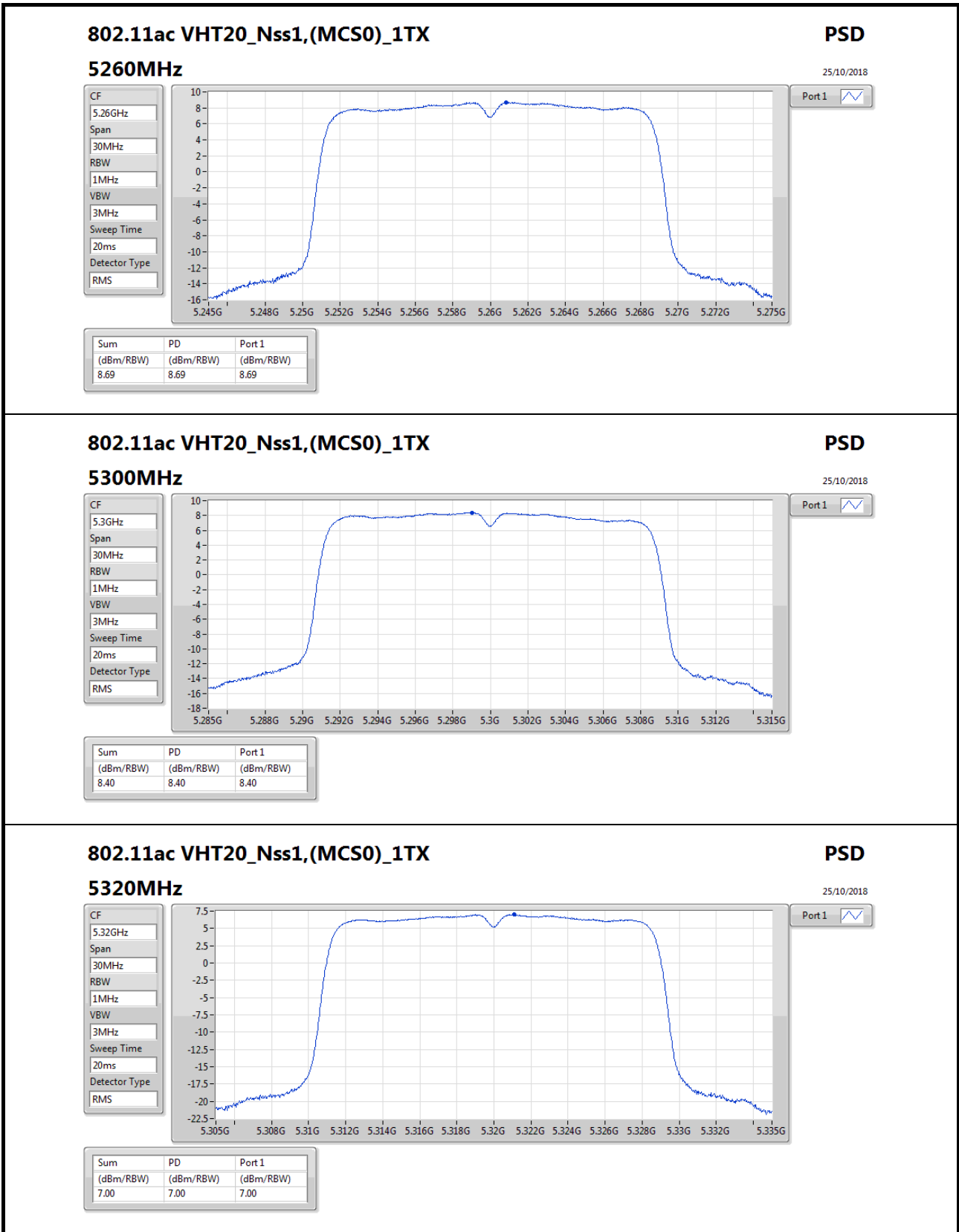
RMS



Port 1

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)
7.31	7.31	7.31





802.11ac VHT20_Nss1,(MCS0)_1TX

5320MHz

PSD

25/10/2018

CF

5.32GHz

Span

30MHz

RBW

1MHz

VBW

3MHz

Sweep Time

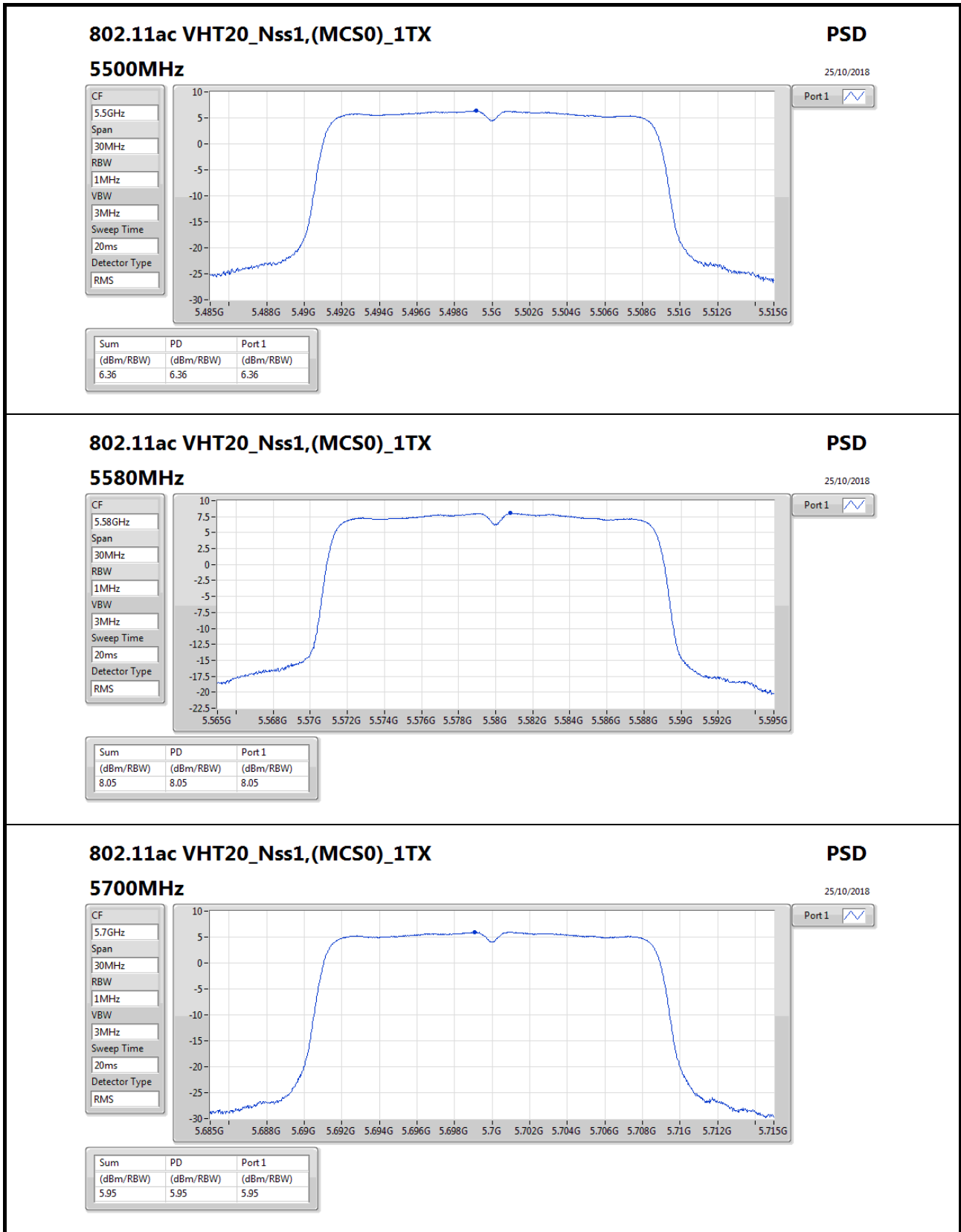
20ms

Detector Type

RMS

Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.00	7.00	7.00



802.11ac VHT20_Nss1,(MCS0)_1TX

5700MHz

PSD

25/10/2018

CF

5.7GHz

Span

30MHz

RBW

1MHz

VBW

3MHz

Sweep Time

20ms

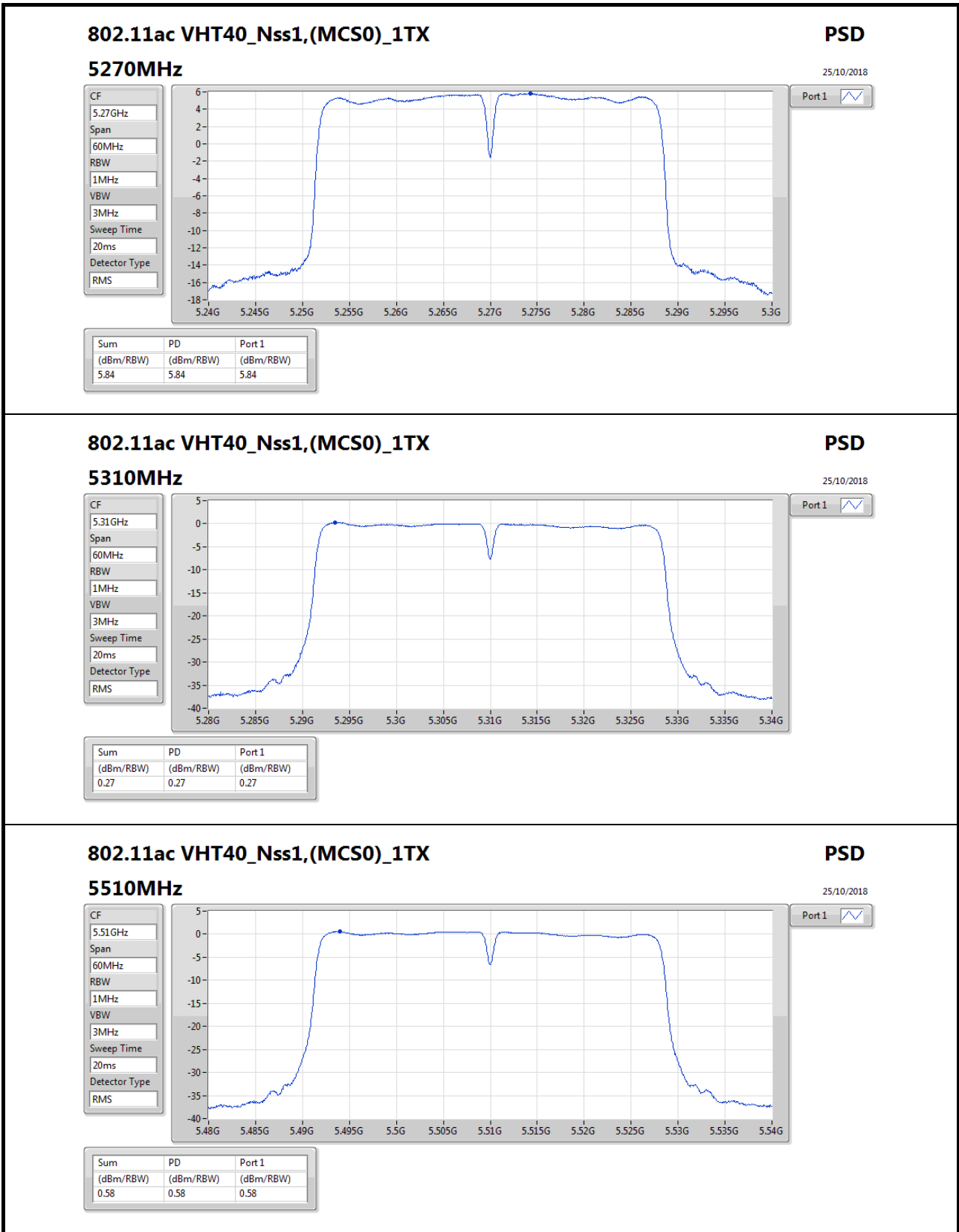
Detector Type

RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.95	5.95	5.95



802.11ac VHT40_Nss1,(MCS0)_1TX

5510MHz

PSD

25/10/2018

CF

5.51GHz

Span

60MHz

RBW

1MHz

VBW

3MHz

Sweep Time

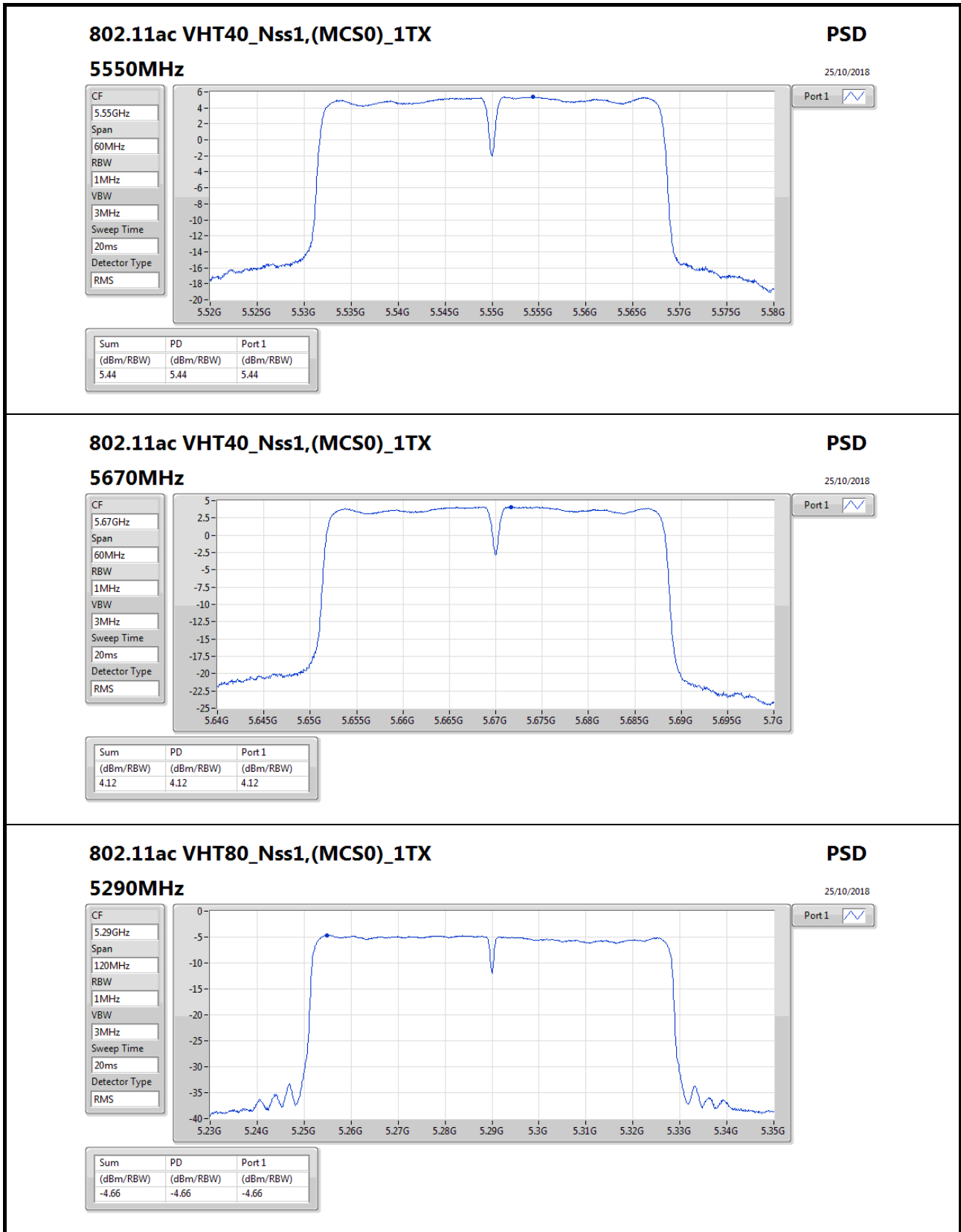
20ms

Detector Type

RMS



Port 1



802.11ac VHT80_Nss1,(MCS0)_1TX

5290MHz

PSD

25/10/2018

CF

5.29GHz

Span

120MHz

RBW

1MHz

VBW

3MHz

Sweep Time

20ms

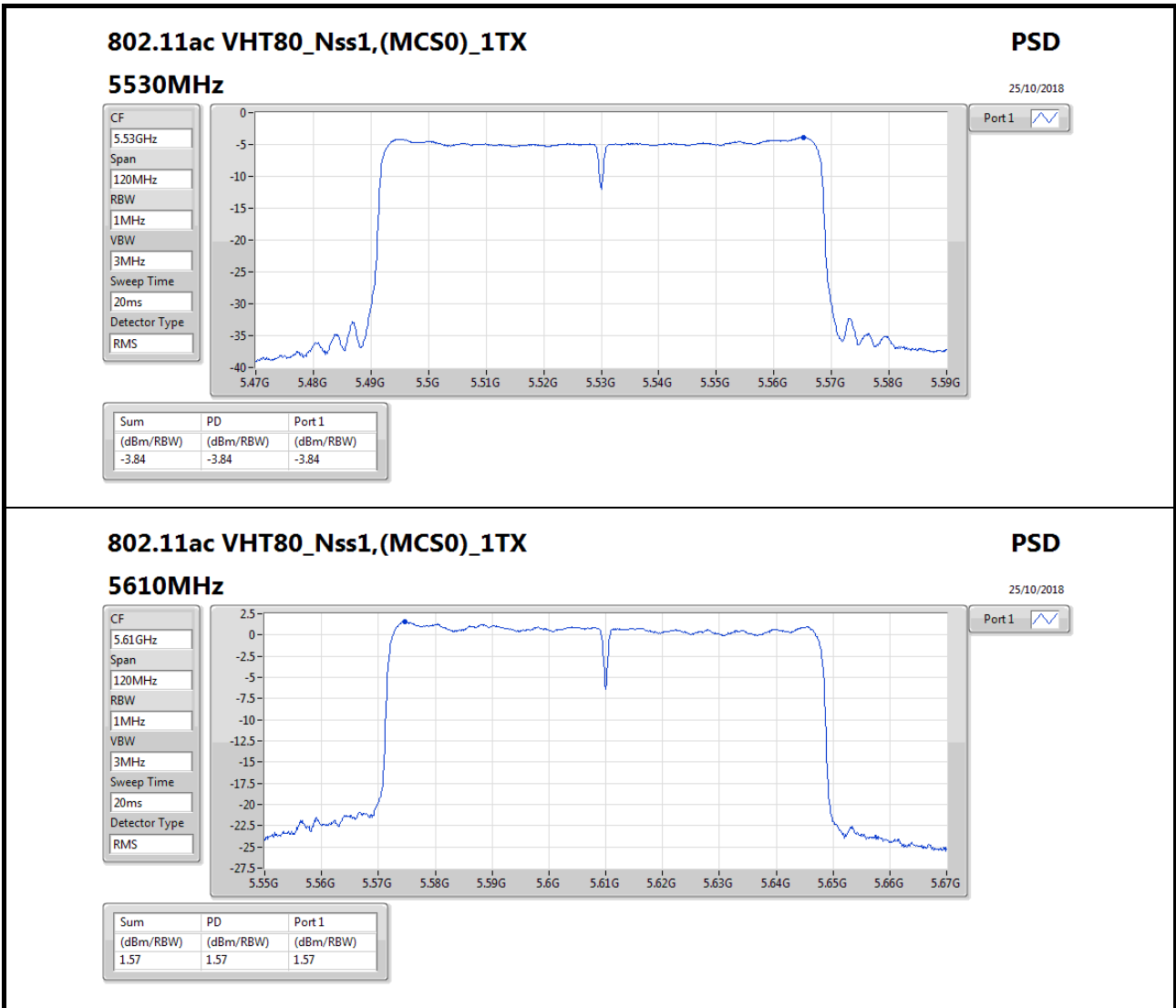
Detector Type

RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.66	-4.66	-4.66





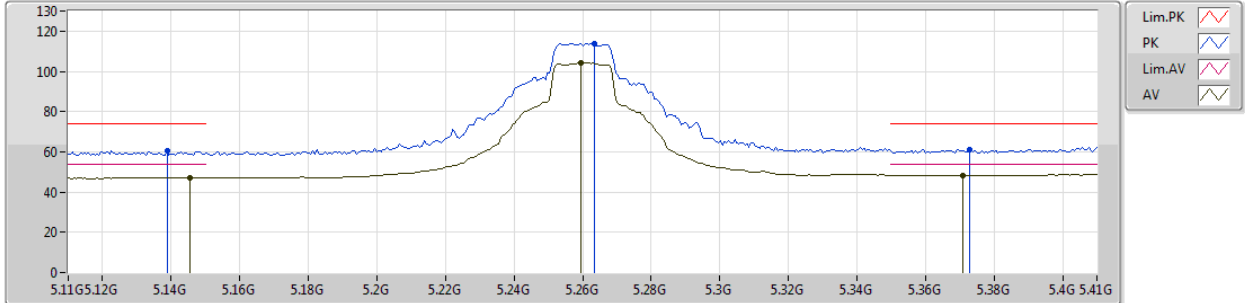
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.3502G	53.95	54.00	-0.05	8.89	3	Vertical	357	2.48	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5260MHz_TX



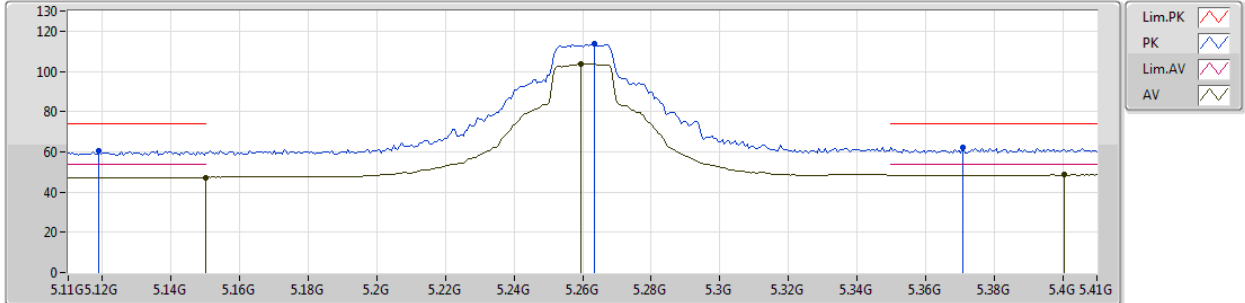
EUT_Y_1TX
Setting 19
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1388G	60.35	74.00	-13.65	8.55	3	Vertical	339	2.41	-
AV	5.1454G	47.15	54.00	-6.85	8.56	3	Vertical	339	2.41	-
PK	5.2636G	113.93	Inf	-Inf	8.77	3	Vertical	339	2.41	-
AV	5.2594G	104.18	Inf	-Inf	8.76	3	Vertical	339	2.41	-
PK	5.3728G	61.27	74.00	-12.73	8.91	3	Vertical	339	2.41	-
AV	5.371G	48.32	54.00	-5.68	8.91	3	Vertical	339	2.41	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5260MHz_TX



EUT_Y_1TX
Setting 19
02-C-5-10
FSP

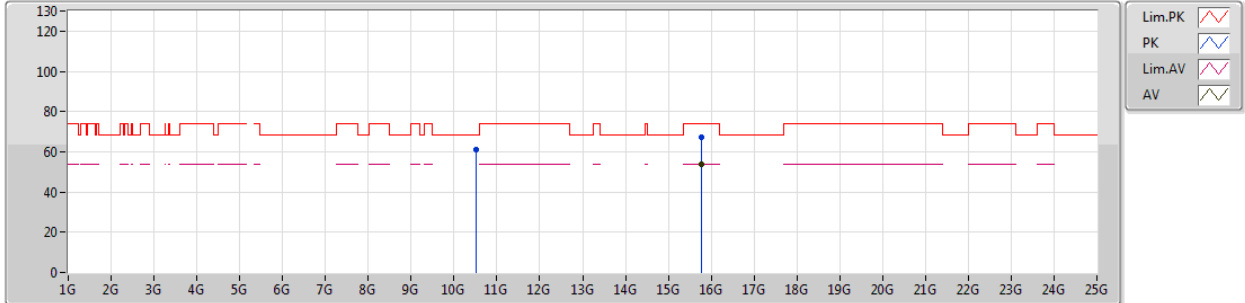
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.119G	60.52	74.00	-13.48	8.51	3	Horizontal	183	1.04	-
AV	5.15G	47.31	54.00	-6.69	8.56	3	Horizontal	183	1.04	-
PK	5.2636G	113.47	Inf	-Inf	8.77	3	Horizontal	183	1.04	-
AV	5.2594G	103.57	Inf	-Inf	8.76	3	Horizontal	183	1.04	-
PK	5.371G	62.40	74.00	-11.60	8.91	3	Horizontal	183	1.04	-
AV	5.4004G	48.60	54.00	-5.40	8.95	3	Horizontal	183	1.04	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5260MHz_TX



EUT Y_1TX
Setting 19
02-C-5
FSP

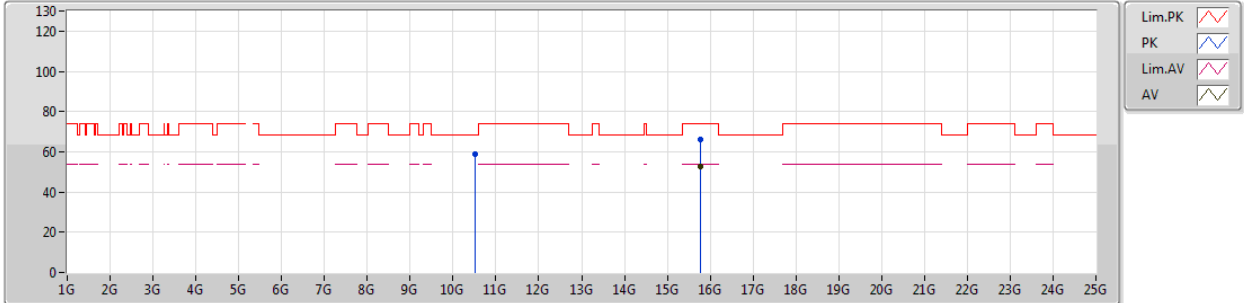
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.52172G	61.13	68.20	-7.07	14.48	3	Vertical	268	2.23	-
PK	15.7818G	67.50	74.00	-6.50	15.44	3	Vertical	163	2.54	-
AV	15.77748G	53.62	54.00	-0.38	15.45	3	Vertical	163	2.54	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5260MHz_TX



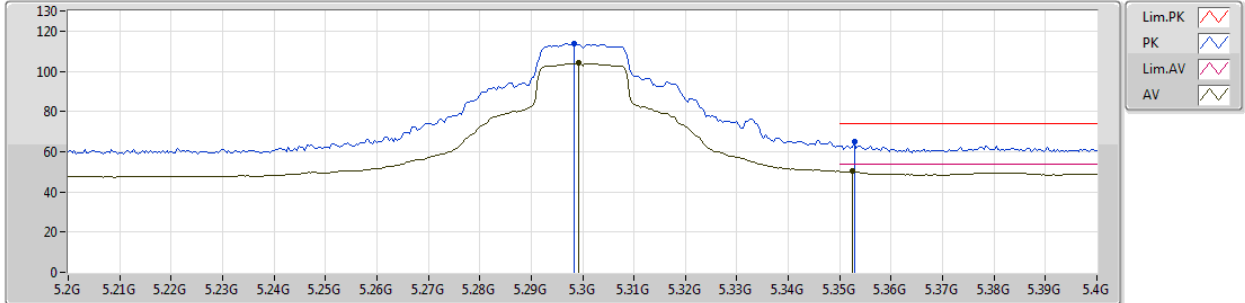
EUT Y_1TX
Setting 19
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.529G	58.93	68.20	-9.27	14.46	3	Horizontal	332	2.66	-
PK	15.78204G	66.13	74.00	-7.87	15.44	3	Horizontal	200	2.29	-
AV	15.77928G	52.63	54.00	-1.37	15.45	3	Horizontal	200	2.29	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5300MHz_TX



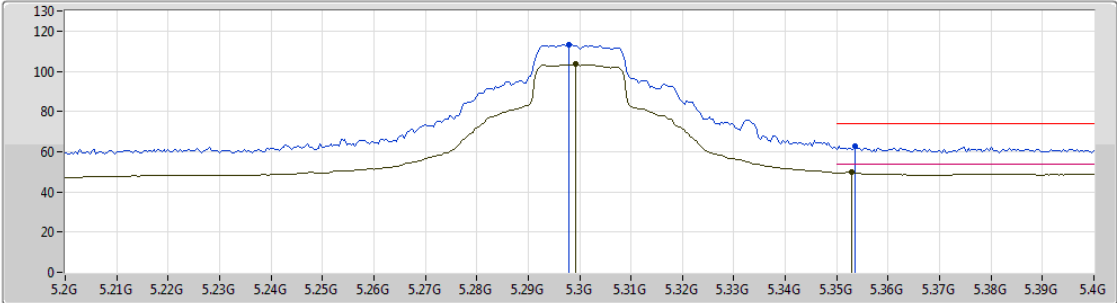
EUT_Y_1TX
Setting 18
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.2984G	113.72	Inf	-Inf	8.82	3	Vertical	15	2.70	-
AV	5.2992G	103.96	Inf	-Inf	8.82	3	Vertical	15	2.70	-
PK	5.3528G	65.13	74.00	-8.87	8.89	3	Vertical	15	2.70	-
AV	5.3524G	50.20	54.00	-3.80	8.89	3	Vertical	15	2.70	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5300MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

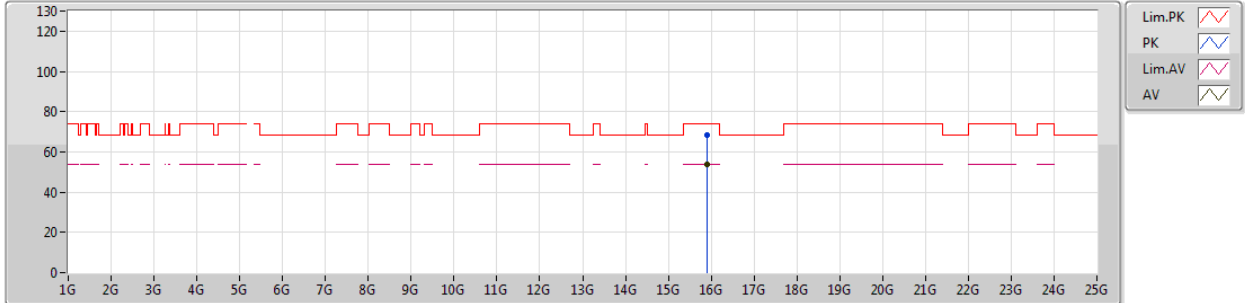
EUT_Y_1TX
Setting 18
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.298G	113.27	Inf	-Inf	8.82	3	Horizontal	210	1.01	-
AV	5.2992G	103.43	Inf	-Inf	8.82	3	Horizontal	210	1.01	-
PK	5.3536G	62.66	74.00	-11.34	8.89	3	Horizontal	210	1.01	-
AV	5.3528G	49.69	54.00	-4.31	8.89	3	Horizontal	210	1.01	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5300MHz_TX



EUT_Y_1TX
Setting 18
02-C-5
FSP

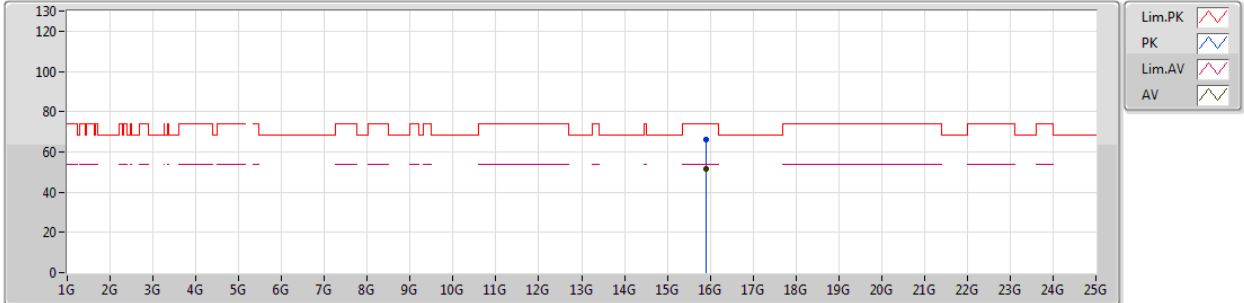
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.90162G	68.41	74.00	-5.59	15.15	3	Vertical	191	2.04	-
AV	15.89934G	53.77	54.00	-0.23	15.15	3	Vertical	191	2.04	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5300MHz_TX



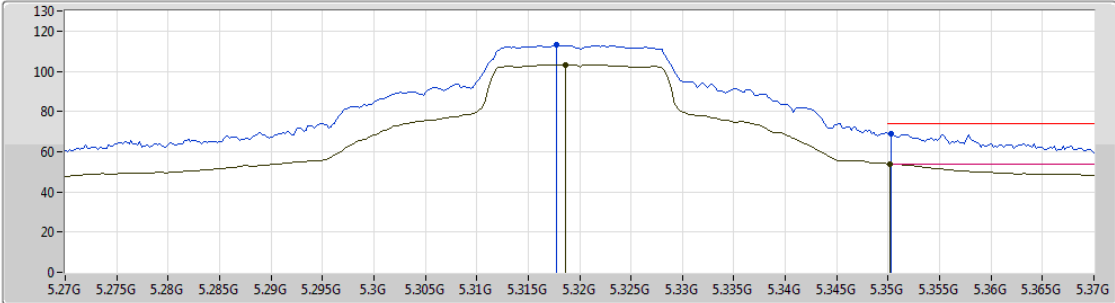
EUT Y_1TX
Setting 18
02-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.90168G	66.29	74.00	-7.71	15.15	3	Horizontal	270	1.88	-
AV	15.89988G	51.64	54.00	-2.36	15.15	3	Horizontal	270	1.88	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5320MHz_TX



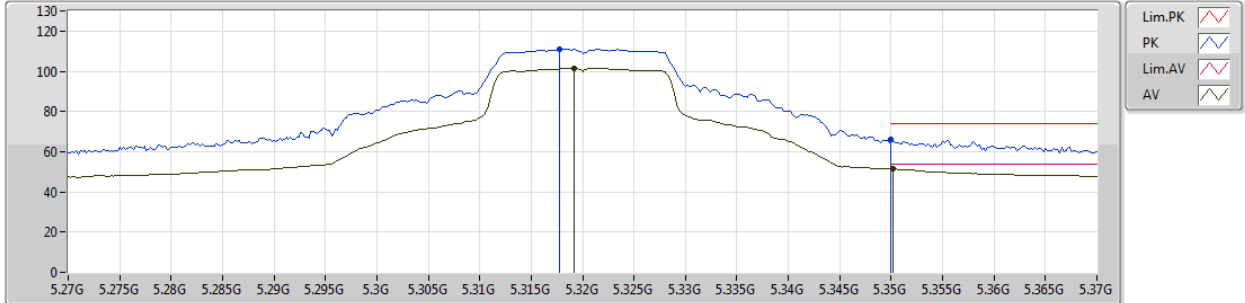
EUT_Y_1TX
Setting 14
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3178G	112.92	Inf	-Inf	8.84	3	Vertical	357	2.48	-
AV	5.3186G	103.34	Inf	-Inf	8.84	3	Vertical	357	2.48	-
PK	5.3503G	68.73	74.00	-5.27	8.89	3	Vertical	357	2.48	-
AV	5.3502G	53.95	54.00	-0.05	8.89	3	Vertical	357	2.48	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5320MHz_TX



EUT Y_1TX
Setting 14
02-C-5-10
FSP

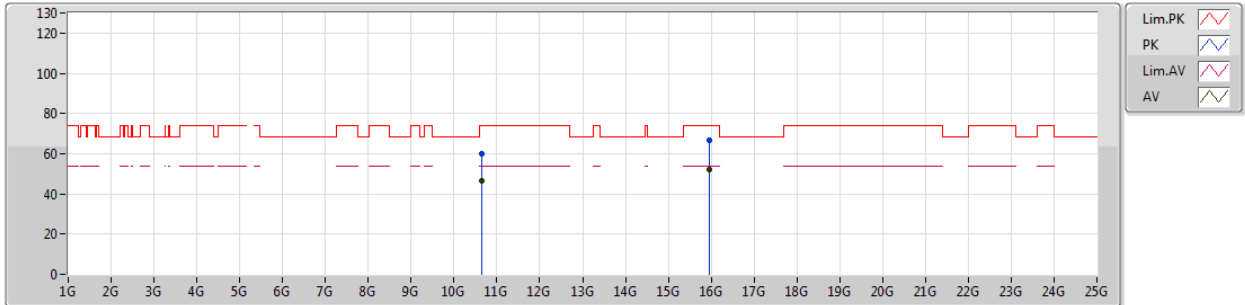
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3178G	110.92	Inf	-Inf	8.84	3	Horizontal	137	1.29	-
AV	5.3192G	101.43	Inf	-Inf	8.84	3	Horizontal	137	1.29	-
PK	5.35G	65.95	74.00	-8.05	8.89	3	Horizontal	137	1.29	-
AV	5.3502G	51.39	54.00	-2.61	8.89	3	Horizontal	137	1.29	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5320MHz_TX



EUT Y_1TX
Setting 14
02-C-5
FSP

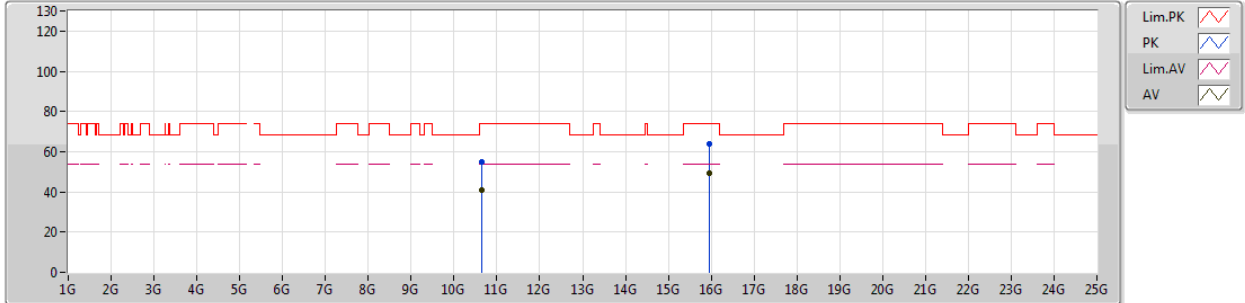
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.6356G	60.06	74.00	-13.94	14.38	3	Vertical	273	2.26	-
AV	10.6401G	46.29	54.00	-7.71	14.38	3	Vertical	273	2.26	-
PK	15.9546G	66.49	74.00	-7.51	15.01	3	Vertical	186	2.02	-
AV	15.9573G	52.23	54.00	-1.77	15.00	3	Vertical	186	2.02	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5320MHz_TX



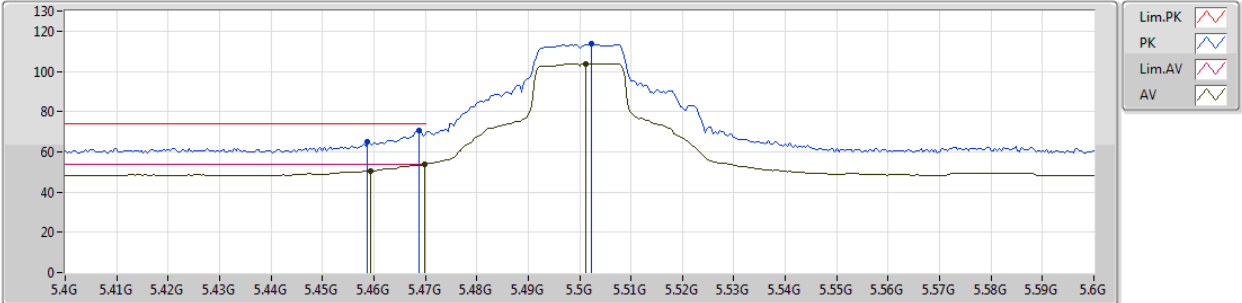
EUT Y_1TX
Setting 14
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.6481G	54.92	74.00	-19.08	14.37	3	Horizontal	121	2.25	-
AV	10.6402G	41.05	54.00	-12.95	14.38	3	Horizontal	121	2.25	-
PK	15.9582G	64.01	74.00	-9.99	15.00	3	Horizontal	257	1.91	-
AV	15.9573G	49.45	54.00	-4.55	15.00	3	Horizontal	257	1.91	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5500MHz_TX



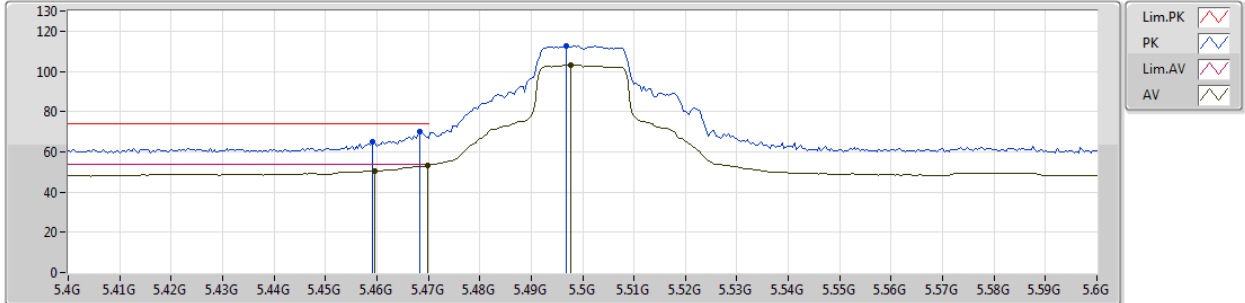
EUT_Y_1TX
Setting 10
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4588G	64.77	74.00	-9.23	9.10	3	Vertical	335	2.70	-
AV	5.4594G	50.41	54.00	-3.59	9.10	3	Vertical	335	2.70	-
PK	5.4688G	70.66	74.00	-3.34	9.12	3	Vertical	335	2.70	-
AV	5.4698G	53.71	54.00	-0.29	9.12	3	Vertical	335	2.70	-
PK	5.5024G	113.66	Inf	-Inf	9.20	3	Vertical	335	2.70	-
AV	5.5012G	103.82	Inf	-Inf	9.20	3	Vertical	335	2.70	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5500MHz_TX



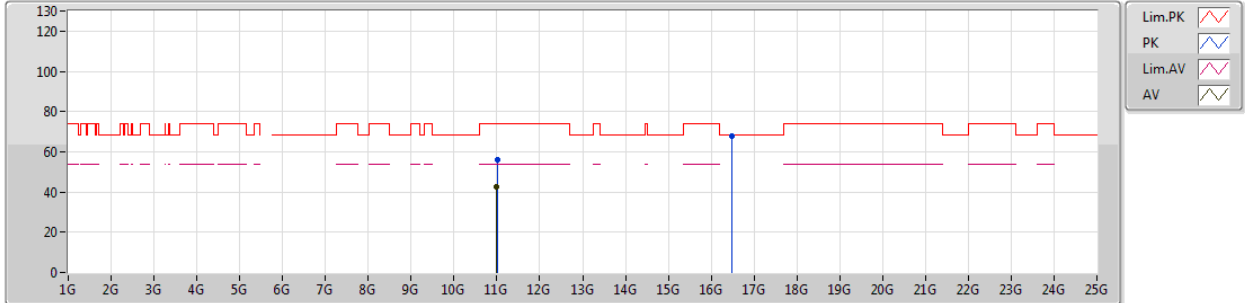
EUT_Y_1TX
Setting 10
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4592G	65.01	74.00	-8.99	9.10	3	Horizontal	203	2.37	-
AV	5.4596G	50.47	54.00	-3.53	9.10	3	Horizontal	203	2.37	-
PK	5.4684G	69.81	74.00	-4.19	9.12	3	Horizontal	203	2.37	-
AV	5.4699G	53.09	54.00	-0.91	9.12	3	Horizontal	203	2.37	-
PK	5.4968G	112.70	Inf	-Inf	9.20	3	Horizontal	203	2.37	-
AV	5.4976G	103.11	Inf	-Inf	9.20	3	Horizontal	203	2.37	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5500MHz_TX



EUT Y_1TX
Setting 10
02-C-5
FSP

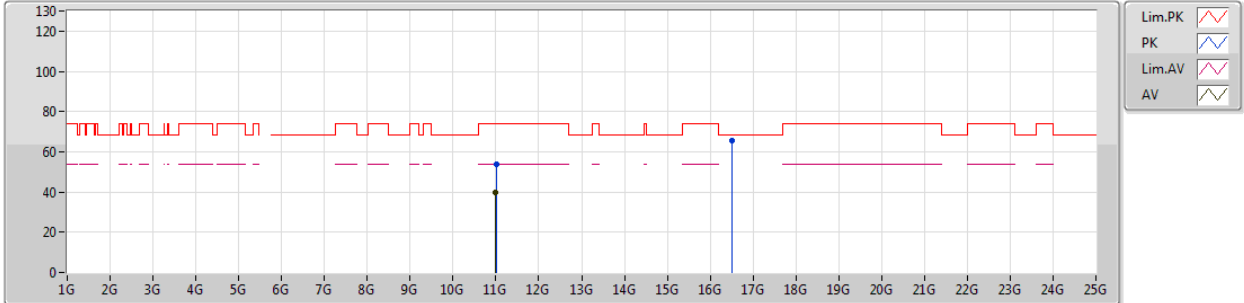
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.0041G	56.03	74.00	-17.97	14.09	3	Vertical	264	2.18	-
AV	11.0018G	42.81	54.00	-11.19	14.09	3	Vertical	264	2.18	-
PK	16.494G	67.92	68.20	-0.28	16.98	3	Vertical	177	2.57	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5500MHz_TX



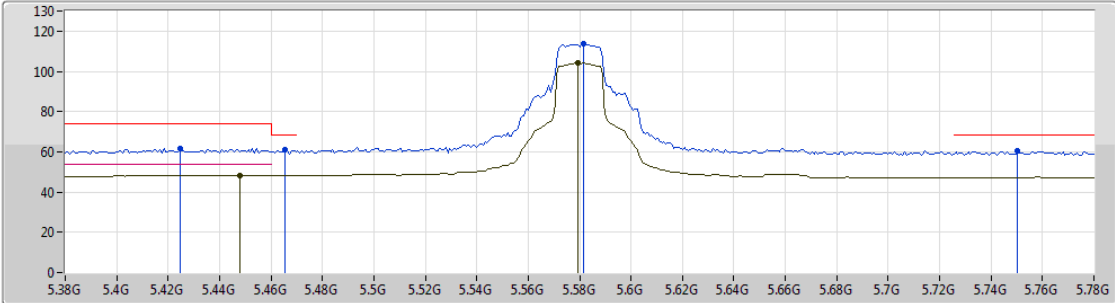
EUT Y_1TX
Setting 10
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.004G	53.65	74.00	-20.35	14.09	3	Horizontal	219	2.95	-
AV	11.0001G	39.94	54.00	-14.06	14.09	3	Horizontal	219	2.95	-
PK	16.5029G	65.51	68.20	-2.69	17.01	3	Horizontal	67	1.86	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5580MHz_TX



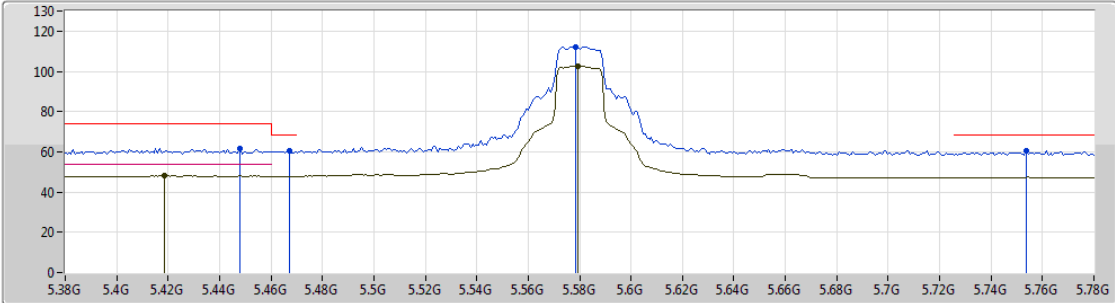
EUT_Y_1TX
Setting 10
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4248G	61.82	74.00	-12.18	9.00	3	Vertical	331	2.40	-
AV	5.448G	48.39	54.00	-5.61	9.07	3	Vertical	331	2.40	-
PK	5.4656G	61.04	68.20	-7.16	9.12	3	Vertical	331	2.40	-
PK	5.5816G	113.51	Inf	-Inf	9.27	3	Vertical	331	2.40	-
AV	5.5792G	104.06	Inf	-Inf	9.27	3	Vertical	331	2.40	-
PK	5.7504G	60.75	68.20	-7.45	9.32	3	Vertical	331	2.40	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5580MHz_TX



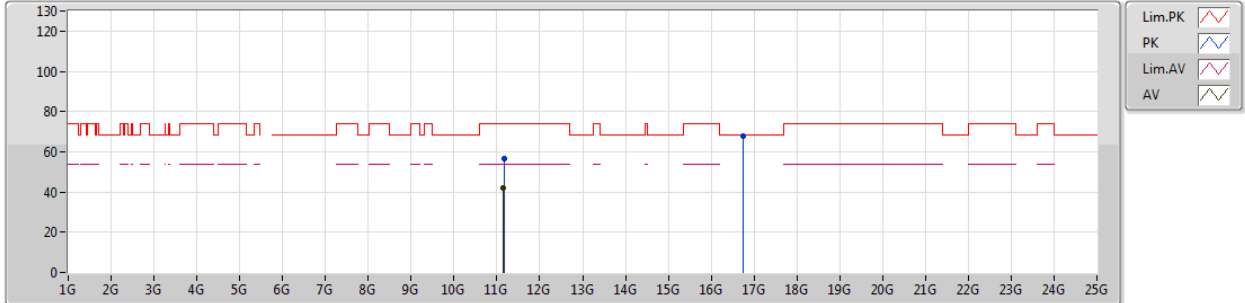
EUT_Y_1TX
Setting 10
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.448G	61.52	74.00	-12.48	9.07	3	Horizontal	178	2.30	-
AV	5.4184G	48.00	54.00	-6.00	8.99	3	Horizontal	178	2.30	-
PK	5.4672G	60.28	68.20	-7.92	9.12	3	Horizontal	178	2.30	-
PK	5.5784G	112.12	Inf	-Inf	9.27	3	Horizontal	178	2.30	-
AV	5.5792G	102.55	Inf	-Inf	9.27	3	Horizontal	178	2.30	-
PK	5.7536G	60.69	68.20	-7.51	9.32	3	Horizontal	178	2.30	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5580MHz_TX



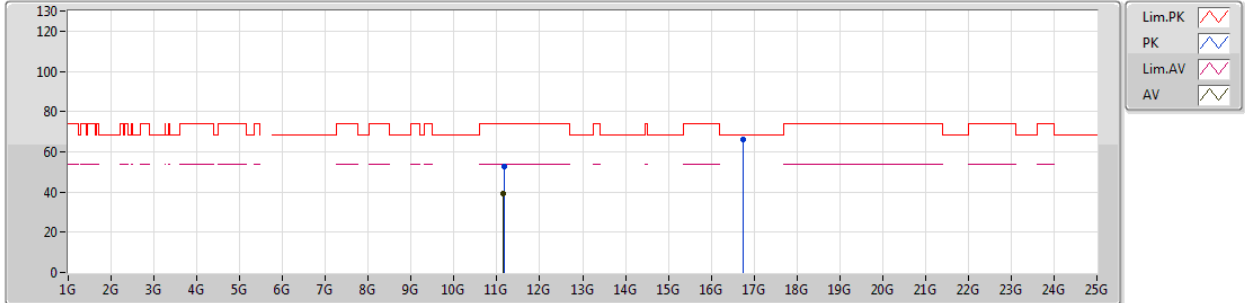
EUT Y_1TX
Setting 10
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.1604G	56.39	74.00	-17.61	14.27	3	Vertical	253	2.23	-
AV	11.1582G	42.09	54.00	-11.91	14.27	3	Vertical	253	2.23	-
PK	16.7416G	67.83	68.20	-0.37	18.01	3	Vertical	170	2.59	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5580MHz_TX



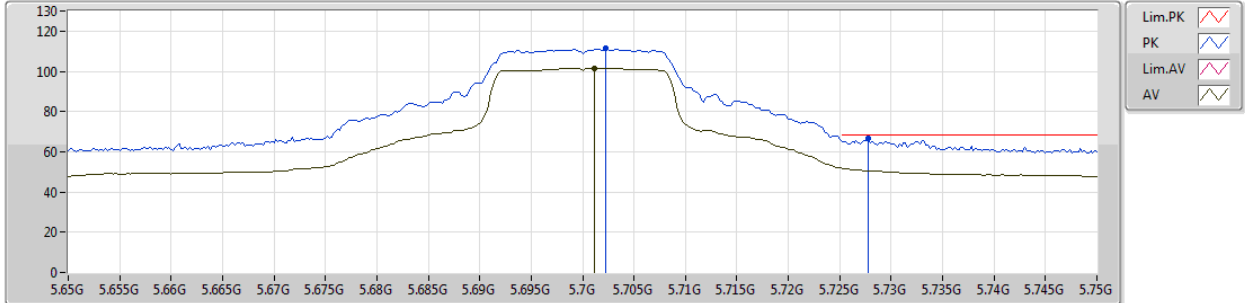
EUT Y_1TX
Setting 10
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.1727G	52.81	74.00	-21.19	14.29	3	Horizontal	43	2.85	-
AV	11.1562G	39.15	54.00	-14.85	14.27	3	Horizontal	43	2.85	-
PK	16.7366G	65.88	68.20	-2.32	18.00	3	Horizontal	67	1.79	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5700MHz_TX



EUT Y_1TX
Setting 0F
02-C-5-10
FSP

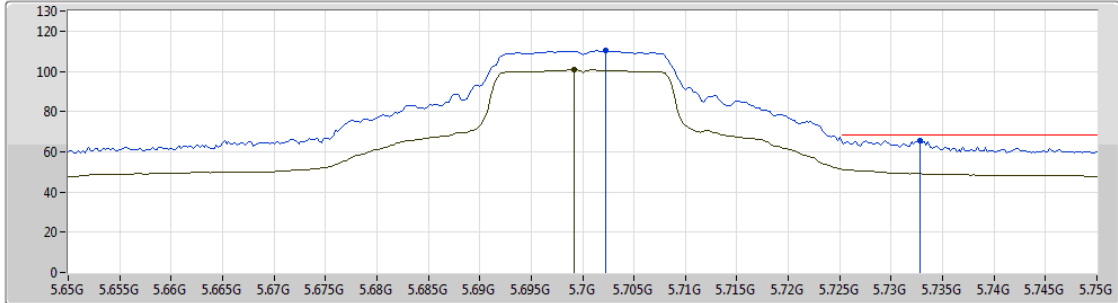
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.7022G	111.31	Inf	-Inf	9.31	3	Vertical	137	2.20	-
AV	5.7012G	101.54	Inf	-Inf	9.31	3	Vertical	137	2.20	-
PK	5.7278G	66.63	68.20	-1.57	9.32	3	Vertical	137	2.20	-



802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5700MHz_TX



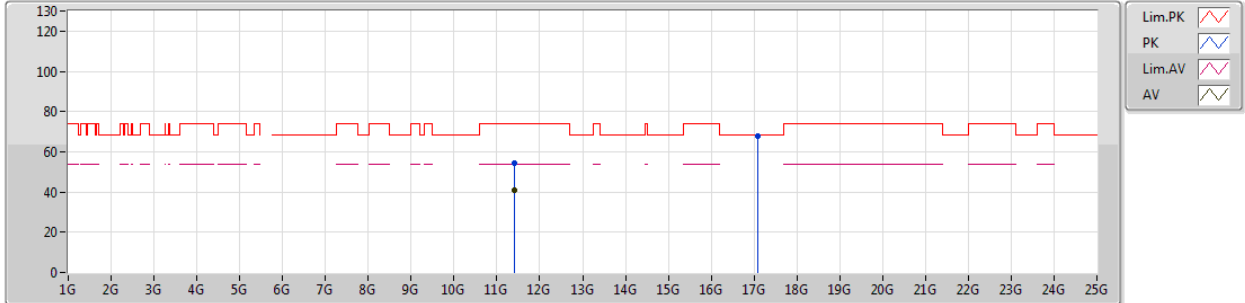
EUT Y_1TX
Setting 0F
02-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.7022G	110.33	Inf	-Inf	9.31	3	Horizontal	139	2.31	-
AV	5.6992G	100.66	Inf	-Inf	9.31	3	Horizontal	139	2.31	-
PK	5.7328G	65.72	68.20	-2.48	9.32	3	Horizontal	139	2.31	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5700MHz_TX



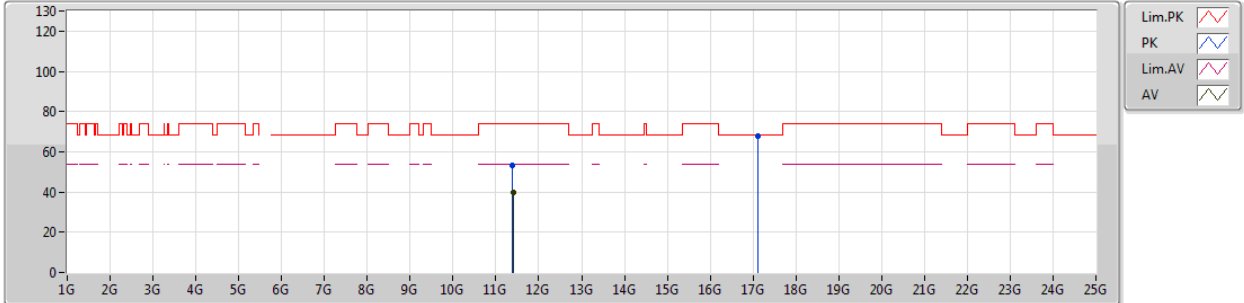
EUT Y_1TX
Setting 0F
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.4025G	54.63	74.00	-19.37	14.55	3	Vertical	119	2.06	-
AV	11.3998G	41.17	54.00	-12.83	14.55	3	Vertical	119	2.06	-
PK	17.0938G	67.87	68.20	-0.33	19.66	3	Vertical	120	2.39	-

802.11a_Nss1,(6Mbps)_1TX

24/10/2018

5700MHz_TX



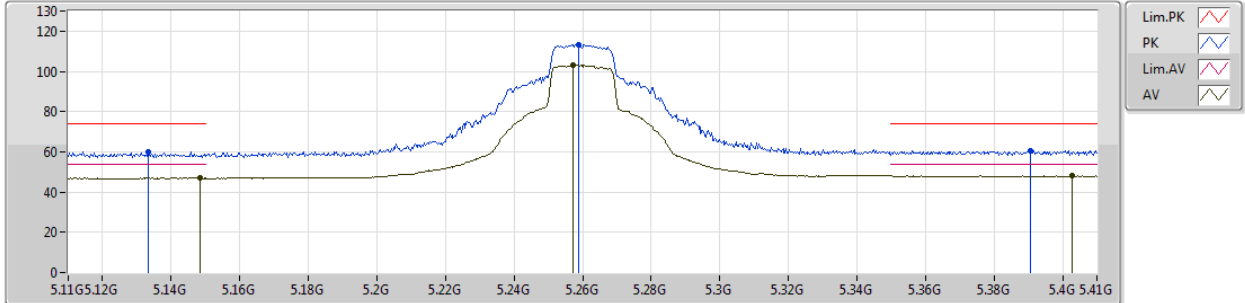
EUT Y_1TX
Setting 0F
02-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.3964G	53.43	74.00	-20.57	14.55	3	Horizontal	240	2.19	-
AV	11.4016G	40.01	54.00	-13.99	14.55	3	Horizontal	240	2.19	-
PK	17.1021G	67.68	68.20	-0.52	19.70	3	Horizontal	36	1.79	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5260MHz_TX



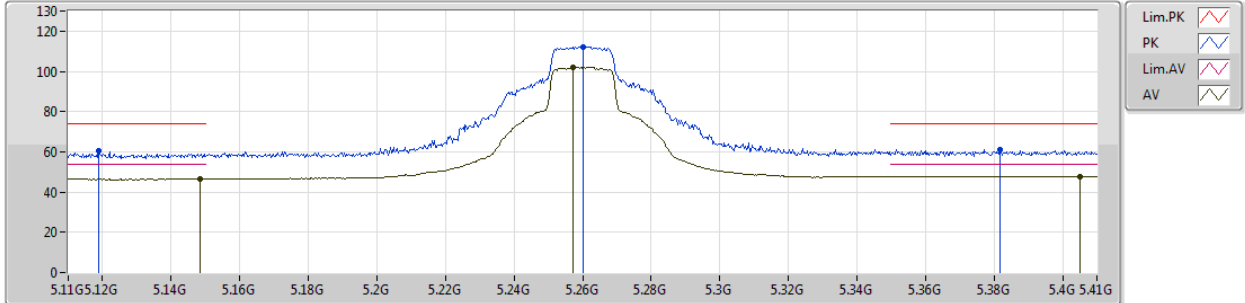
EUT Y_1TX
Setting 19
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1334G	60.22	74.00	-13.78	6.12	3	Vertical	3	2.30	-
AV	5.1484G	46.95	54.00	-7.05	6.15	3	Vertical	3	2.30	-
PK	5.2588G	113.34	Inf	-Inf	6.38	3	Vertical	3	2.30	-
AV	5.2573G	103.21	Inf	-Inf	6.37	3	Vertical	3	2.30	-
PK	5.3905G	60.79	74.00	-13.21	6.70	3	Vertical	3	2.30	-
AV	5.4028G	48.02	54.00	-5.98	6.74	3	Vertical	3	2.30	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5260MHz_TX



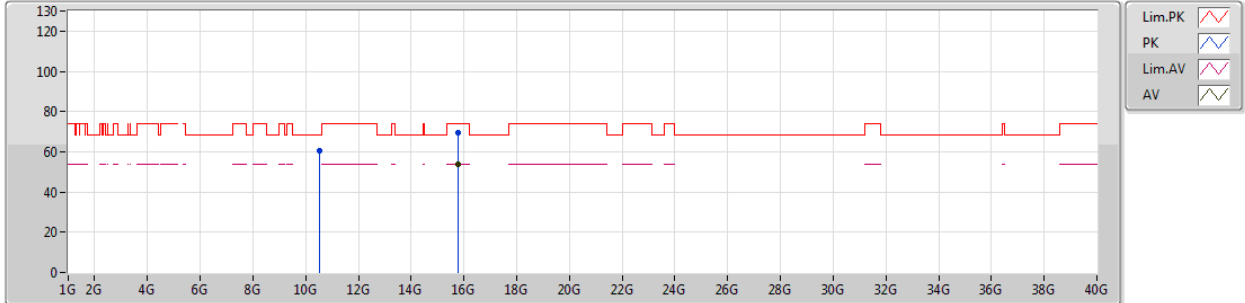
EUT_Y_1TX
Setting 19
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.119G	60.56	74.00	-13.44	6.09	3	Horizontal	219	2.13	-
AV	5.1484G	46.53	54.00	-7.47	6.15	3	Horizontal	219	2.13	-
PK	5.2603G	112.34	Inf	-Inf	6.38	3	Horizontal	219	2.13	-
AV	5.2573G	102.14	Inf	-Inf	6.37	3	Horizontal	219	2.13	-
PK	5.3818G	61.24	74.00	-12.76	6.69	3	Horizontal	219	2.13	-
AV	5.4052G	47.88	54.00	-6.12	6.74	3	Horizontal	219	2.13	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5260MHz_TX



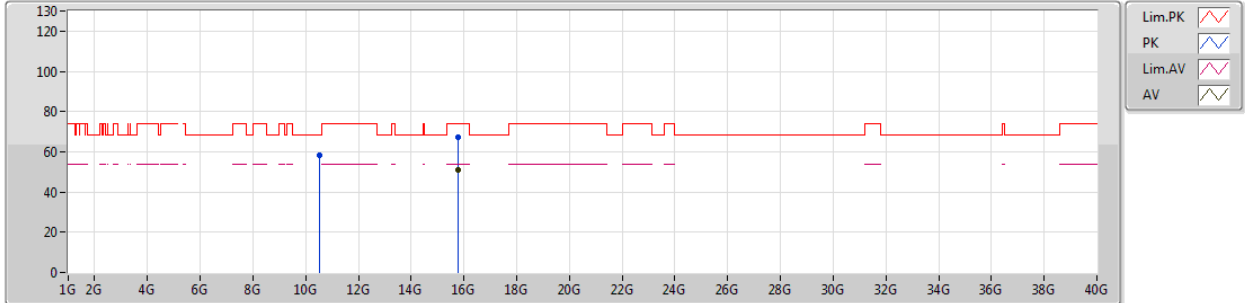
EUT Y_1TX
Setting 19
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.5146G	60.49	68.20	-7.71	13.67	3	Vertical	279	2.20	-
PK	15.7869G	69.60	74.00	-4.40	15.41	3	Vertical	164	1.81	-
AV	15.77574G	53.70	54.00	-0.30	15.45	3	Vertical	164	1.81	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5260MHz_TX



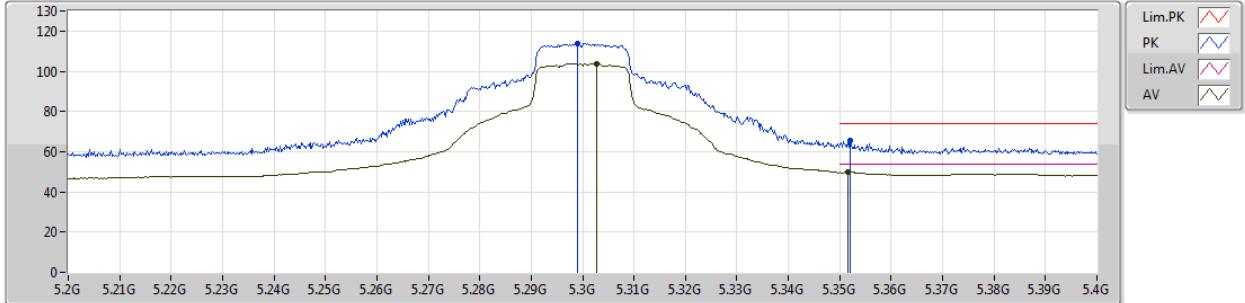
EUT Y_1TX
Setting 19
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.52546G	58.02	68.20	-10.18	13.69	3	Horizontal	238	2.99	-
PK	15.78675G	67.09	74.00	-6.91	15.41	3	Horizontal	98	1.74	-
AV	15.77589G	51.25	54.00	-2.75	15.45	3	Horizontal	98	1.74	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5300MHz_TX



EUT Y_1TX
Setting 1A
03-R-5-10
FSP

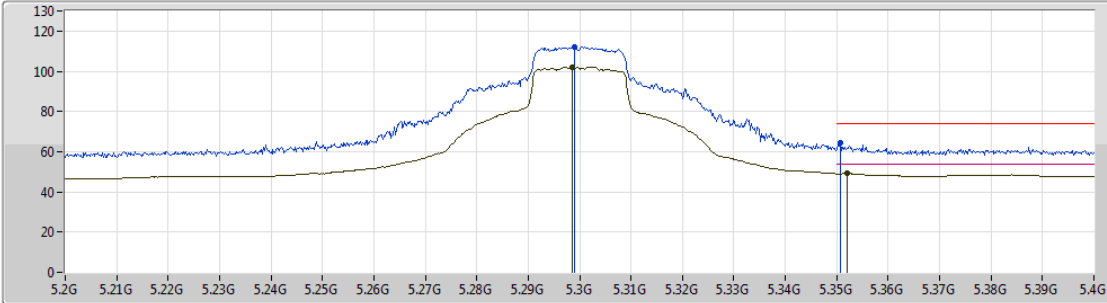
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.299G	113.98	Inf	-Inf	6.49	3	Vertical	4	2.40	-
AV	5.3028G	103.72	Inf	-Inf	6.50	3	Vertical	4	2.40	-
PK	5.352G	65.77	74.00	-8.23	6.61	3	Vertical	4	2.40	-
AV	5.3516G	49.96	54.00	-4.04	6.61	3	Vertical	4	2.40	-



802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5300MHz_TX



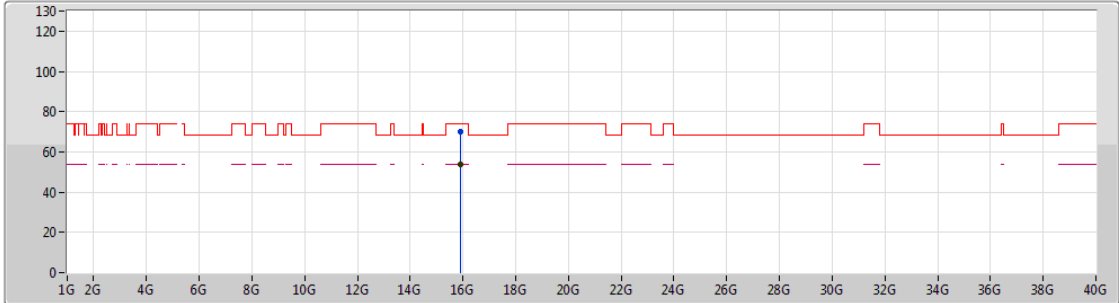
EUT Y_1TX
Setting 1A
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.299G	112.30	Inf	-Inf	6.49	3	Horizontal	219	2.23	-
AV	5.2986G	101.88	Inf	-Inf	6.49	3	Horizontal	219	2.23	-
PK	5.3508G	64.40	74.00	-9.60	6.61	3	Horizontal	219	2.23	-
AV	5.352G	49.26	54.00	-4.74	6.61	3	Horizontal	219	2.23	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5300MHz_TX



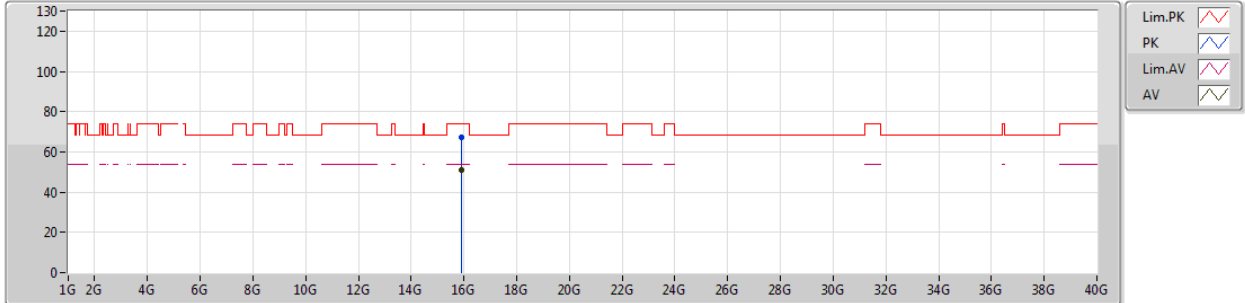
EUT Y_1TX
Setting 1A
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.90669G	69.92	74.00	-4.08	15.01	3	Vertical	163	1.81	-
AV	15.89841G	53.65	54.00	-0.35	15.03	3	Vertical	163	1.81	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5300MHz_TX



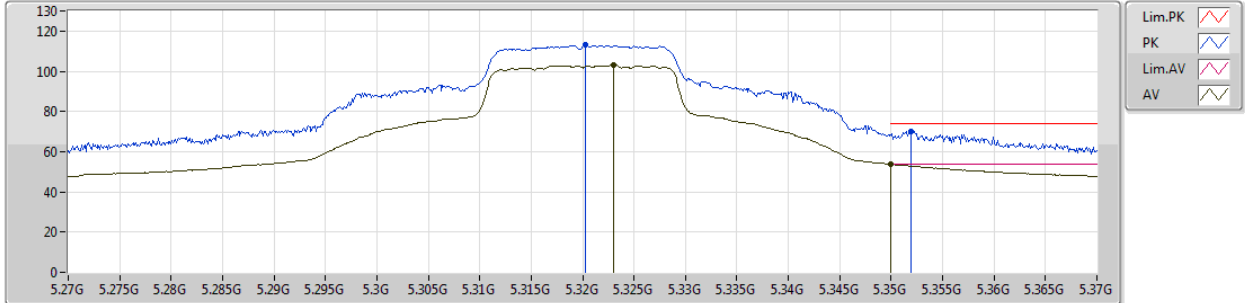
EUT Y_1TX
Setting 1A
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.90678G	67.14	74.00	-6.86	15.01	3	Horizontal	86	1.82	-
AV	15.89847G	50.85	54.00	-3.15	15.03	3	Horizontal	86	1.82	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5320MHz_TX



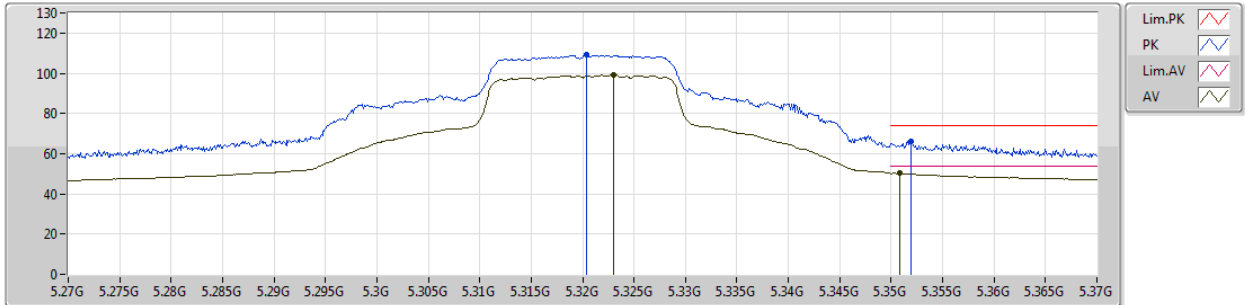
EUT Y_1TX
Setting 15
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3203G	113.09	Inf	-Inf	6.54	3	Vertical	6	2.37	-
AV	5.323G	102.95	Inf	-Inf	6.55	3	Vertical	6	2.37	-
PK	5.3519G	70.12	74.00	-3.88	6.61	3	Vertical	6	2.37	-
AV	5.35G	53.69	54.00	-0.31	6.61	3	Vertical	6	2.37	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5320MHz_TX



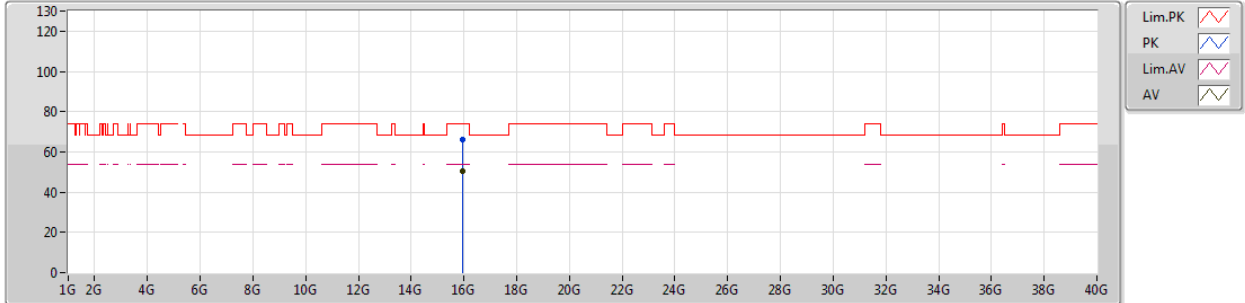
EUT_Y_1TX
Setting 15
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3204G	109.08	Inf	-Inf	6.54	3	Horizontal	154	1.16	-
AV	5.323G	99.08	Inf	-Inf	6.55	3	Horizontal	154	1.16	-
PK	5.3519G	66.01	74.00	-7.99	6.61	3	Horizontal	154	1.16	-
AV	5.3508G	50.20	54.00	-3.80	6.61	3	Horizontal	154	1.16	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5320MHz_TX



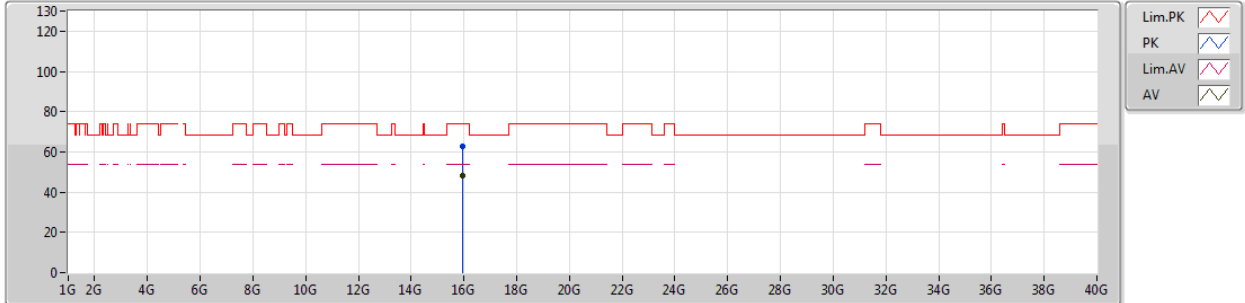
EUT Y_1TX
Setting 15
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.96129G	66.27	74.00	-7.73	14.83	3	Vertical	164	1.79	-
AV	15.95571G	50.25	54.00	-3.75	14.84	3	Vertical	164	1.79	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5320MHz_TX



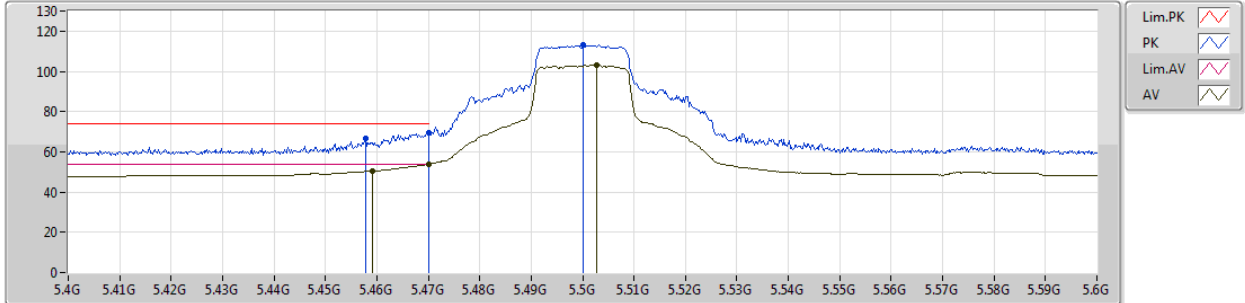
EUT_Y_1TX
Setting 15
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.96669G	62.97	74.00	-11.03	14.81	3	Horizontal	86	1.83	-
AV	15.95613G	47.96	54.00	-6.04	14.84	3	Horizontal	86	1.83	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5500MHz_TX



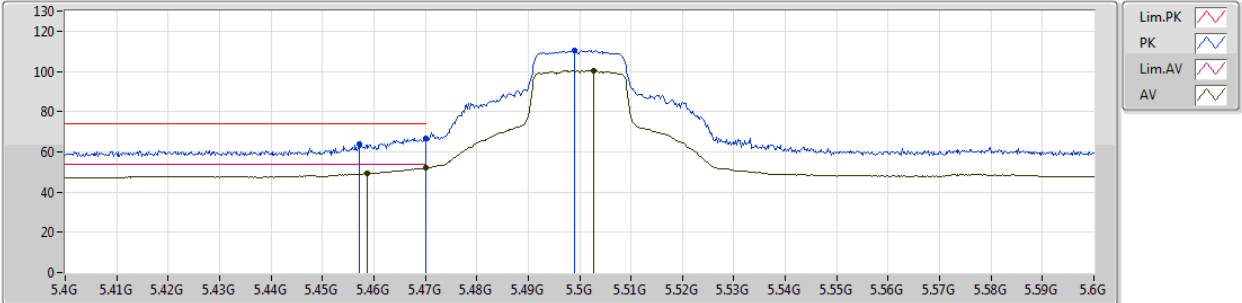
EUT Y_1TX
Setting 11
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4578G	66.50	74.00	-7.50	6.88	3	Vertical	5	2.39	-
AV	5.4592G	50.49	54.00	-3.51	6.89	3	Vertical	5	2.39	-
PK	5.47G	69.53	74.00	-4.47	6.92	3	Vertical	5	2.39	-
AV	5.47G	53.72	54.00	-0.28	6.92	3	Vertical	5	2.39	-
PK	5.5002G	112.93	Inf	-Inf	7.00	3	Vertical	5	2.39	-
AV	5.5028G	103.17	Inf	-Inf	7.00	3	Vertical	5	2.39	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5500MHz_TX



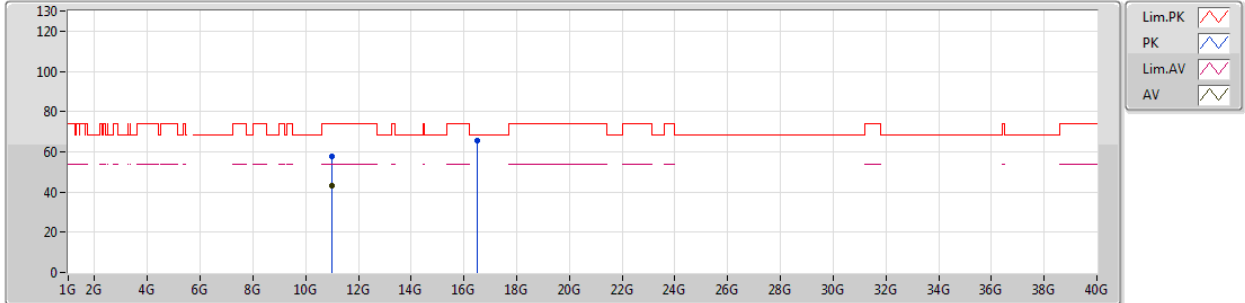
EUT Y_1TX
Setting 11
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4572G	63.93	74.00	-10.07	6.88	3	Horizontal	154	2.22	-
AV	5.4588G	49.33	54.00	-4.67	6.89	3	Horizontal	154	2.22	-
PK	5.47G	66.58	74.00	-7.42	6.92	3	Horizontal	154	2.22	-
AV	5.47G	52.00	54.00	-2.00	6.92	3	Horizontal	154	2.22	-
PK	5.499G	110.47	Inf	-Inf	7.00	3	Horizontal	154	2.22	-
AV	5.5028G	100.46	Inf	-Inf	7.00	3	Horizontal	154	2.22	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5500MHz_TX



EUT Y_1TX
Setting 11
03-R-5
FSP

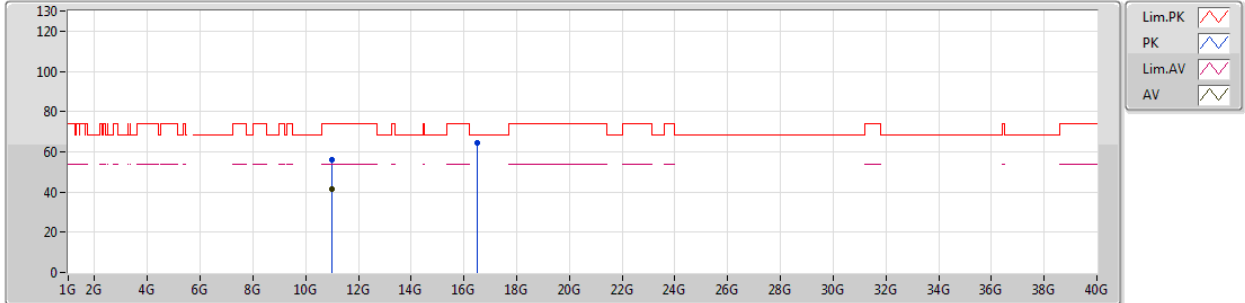
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.00525G	57.66	74.00	-16.34	14.02	3	Vertical	275	2.14	-
AV	10.99892G	42.94	54.00	-11.06	14.02	3	Vertical	275	2.14	-
PK	16.50144G	65.53	68.20	-2.67	16.48	3	Vertical	210	1.70	-



802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5500MHz_TX



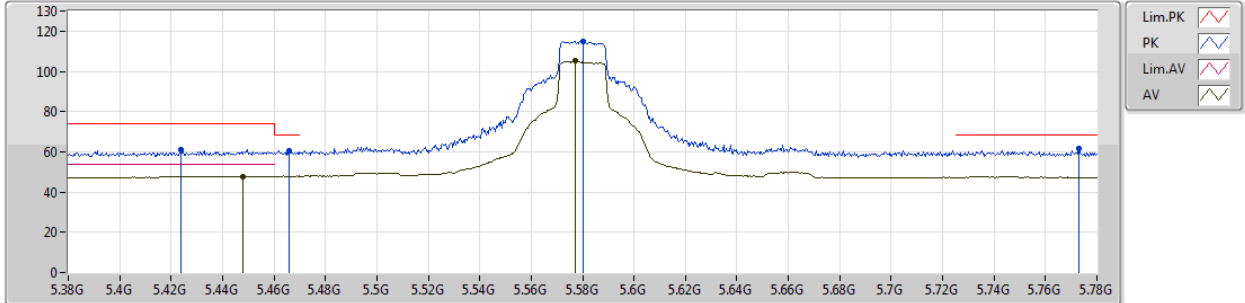
EUT_Y_1TX
Setting 11
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.00033G	55.76	74.00	-18.24	14.02	3	Horizontal	164	2.96	-
AV	10.99799G	41.62	54.00	-12.38	14.02	3	Horizontal	164	2.96	-
PK	16.48926G	64.50	68.20	-3.70	16.44	3	Horizontal	93	1.80	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5580MHz_TX



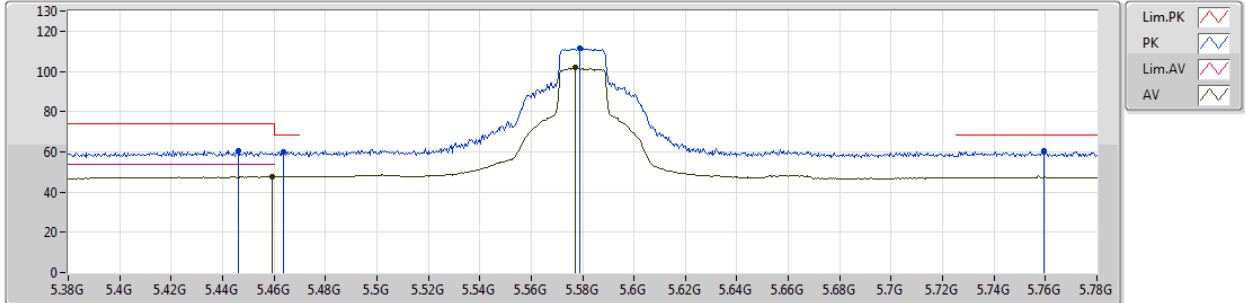
EUT Y_1TX
Setting 15
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4236G	61.19	74.00	-12.81	6.79	3	Vertical	4	2.44	-
AV	5.448G	47.88	54.00	-6.12	6.86	3	Vertical	4	2.44	-
PK	5.466G	60.39	68.20	-7.81	6.91	3	Vertical	4	2.44	-
PK	5.5804G	114.82	Inf	-Inf	7.07	3	Vertical	4	2.44	-
AV	5.5772G	105.14	Inf	-Inf	7.06	3	Vertical	4	2.44	-
PK	5.7728G	61.45	68.20	-6.75	7.26	3	Vertical	4	2.44	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5580MHz_TX



EUT_Y_1TX
Setting 15
03-R-5-10
FSP

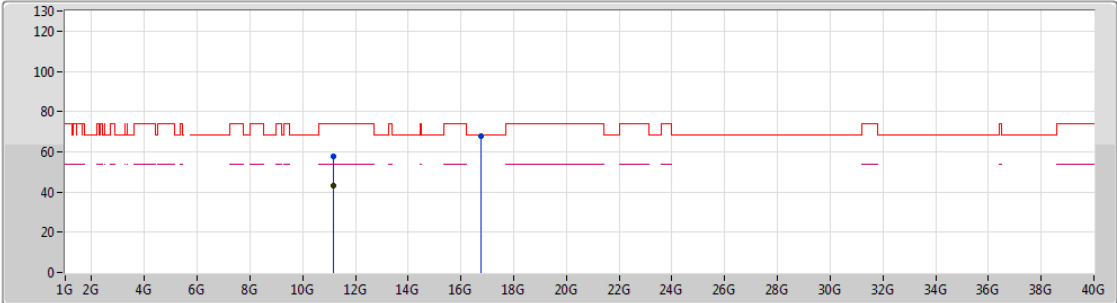
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.446G	60.49	74.00	-13.51	6.85	3	Horizontal	159	2.27	-
AV	5.4592G	47.57	54.00	-6.43	6.89	3	Horizontal	159	2.27	-
PK	5.4636G	60.12	68.20	-8.08	6.90	3	Horizontal	159	2.27	-
PK	5.5788G	111.62	Inf	-Inf	7.07	3	Horizontal	159	2.27	-
AV	5.5772G	101.75	Inf	-Inf	7.06	3	Horizontal	159	2.27	-
PK	5.7596G	60.74	68.20	-7.46	7.25	3	Horizontal	159	2.27	-



802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5580MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

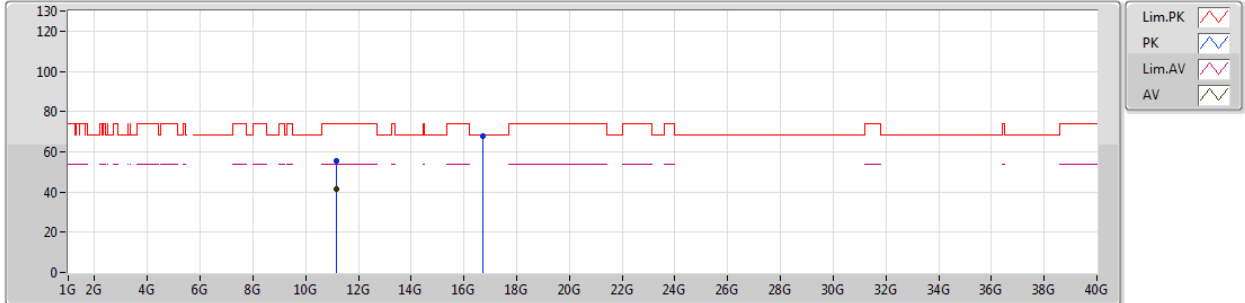
EUT Y_1TX
Setting 15
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.15391G	57.74	74.00	-16.26	14.09	3	Vertical	276	2.09	-
AV	11.15826G	43.12	54.00	-10.88	14.10	3	Vertical	276	2.09	-
PK	16.7469G	67.86	68.20	-0.34	17.36	3	Vertical	212	1.72	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5580MHz_TX



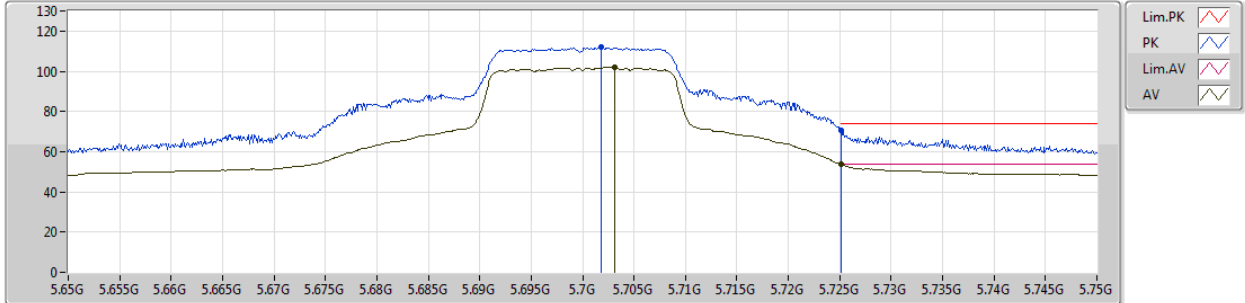
EUT Y_1TX
Setting 15
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.1582G	55.59	74.00	-18.41	14.10	3	Horizontal	350	2.22	-
AV	11.15694G	41.53	54.00	-12.47	14.10	3	Horizontal	350	2.22	-
PK	16.73802G	67.77	68.20	-0.43	17.32	3	Horizontal	86	1.76	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5700MHz_TX



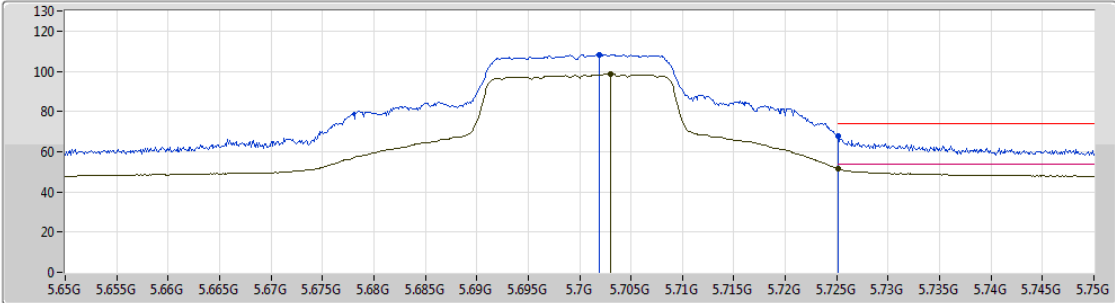
EUT Y_1TX
Setting 10
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.7018G	111.84	Inf	-Inf	7.19	3	Vertical	0	2.46	-
AV	5.7031G	101.95	Inf	-Inf	7.19	3	Vertical	0	2.46	-
PK	5.7251G	70.80	74.00	-3.20	7.23	3	Vertical	0	2.46	-
AV	5.7251G	53.76	54.00	-0.24	7.23	3	Vertical	0	2.46	-

802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5700MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

EUT Y_1TX
Setting 10
03-R-5-10
FSP

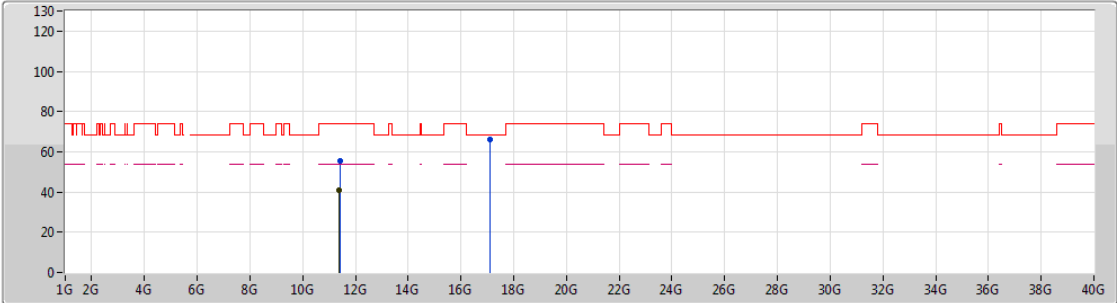
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.7019G	108.30	Inf	-Inf	7.19	3	Horizontal	151	2.21	-
AV	5.703G	98.58	Inf	-Inf	7.19	3	Horizontal	151	2.21	-
PK	5.7251G	67.79	74.00	-6.21	7.23	3	Horizontal	151	2.21	-
AV	5.7251G	51.76	54.00	-2.24	7.23	3	Horizontal	151	2.21	-



802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5700MHz_TX



EUT Y_1TX
Setting 10
03-R-5
FSP

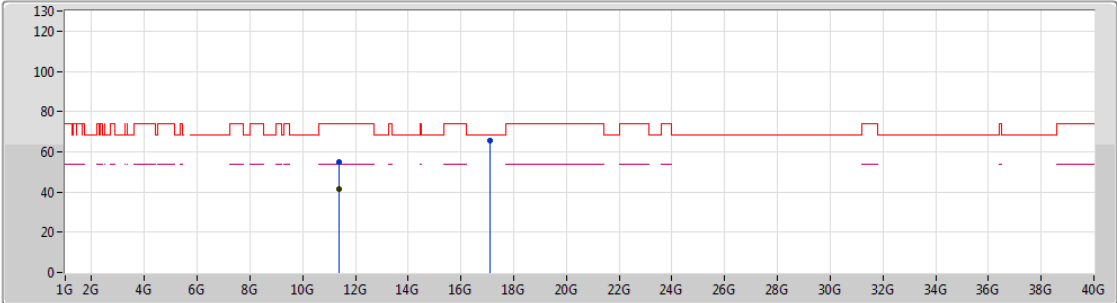
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.40429G	55.45	74.00	-18.55	14.21	3	Vertical	159	1.31	-
AV	11.39031G	41.15	54.00	-12.85	14.21	3	Vertical	159	1.31	-
PK	17.10627G	65.90	68.20	-2.30	18.84	3	Vertical	210	1.76	-



802.11ac VHT20_Nss1,(MCS0)_1TX

24/10/2018

5700MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

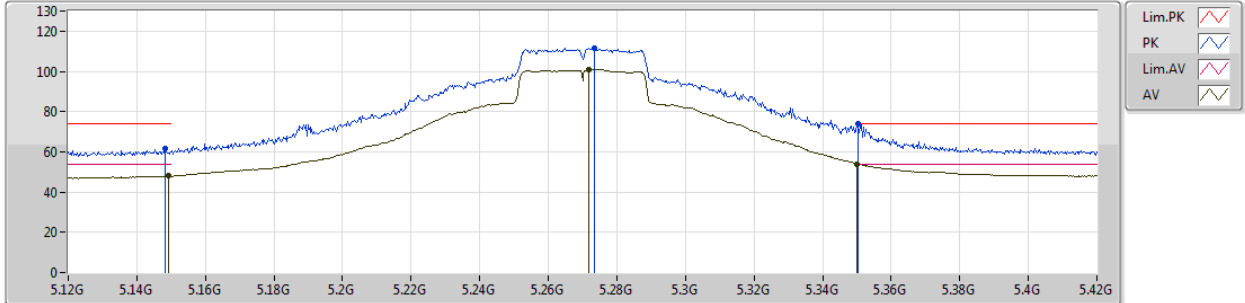
EUT Y_1TX
Setting 10
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.38968G	55.17	74.00	-18.83	14.21	3	Horizontal	280	1.53	-
AV	11.39847G	41.32	54.00	-12.68	14.21	3	Horizontal	280	1.53	-
PK	17.09979G	65.72	68.20	-2.48	18.80	3	Horizontal	103	2.36	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5270MHz_TX



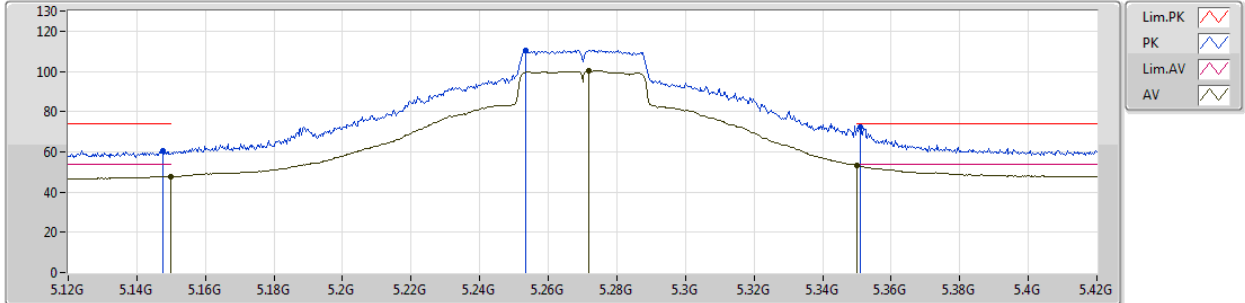
EUT Y_1TX
Setting 21
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1482G	61.54	74.00	-12.46	6.15	3	Vertical	0	2.21	-
AV	5.1491G	47.94	54.00	-6.06	6.15	3	Vertical	0	2.21	-
PK	5.2736G	111.43	Inf	-Inf	6.42	3	Vertical	0	2.21	-
AV	5.2718G	101.00	Inf	-Inf	6.41	3	Vertical	0	2.21	-
PK	5.3504G	73.71	74.00	-0.29	6.61	3	Vertical	0	2.21	-
AV	5.35G	53.76	54.00	-0.24	6.61	3	Vertical	0	2.21	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5270MHz_TX



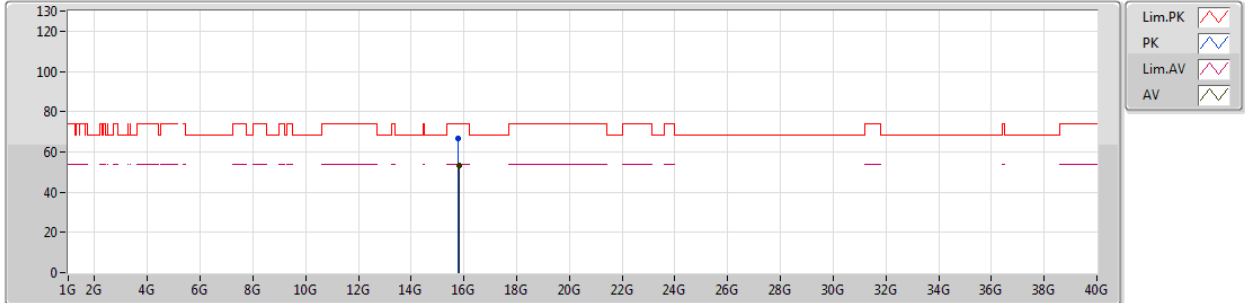
EUT_Y_1TX
Setting 21
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1476G	60.70	74.00	-13.30	6.15	3	Horizontal	215	2.08	-
AV	5.15G	47.67	54.00	-6.33	6.15	3	Horizontal	215	2.08	-
PK	5.2535G	110.63	Inf	-Inf	6.37	3	Horizontal	215	2.08	-
AV	5.2718G	100.16	Inf	-Inf	6.41	3	Horizontal	215	2.08	-
PK	5.351G	72.21	74.00	-1.79	6.61	3	Horizontal	215	2.08	-
AV	5.35G	52.98	54.00	-1.02	6.61	3	Horizontal	215	2.08	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5270MHz_TX



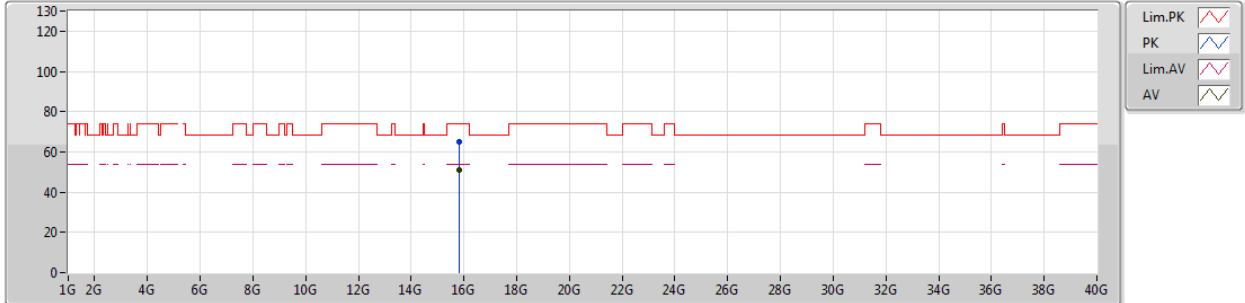
EUT Y_1TX
Setting 21
03-R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.796777G	66.47	74.00	-7.53	15.38	3	Vertical	163	1.81	-
AV	15.81225G	53.08	54.00	-0.92	15.34	3	Vertical	163	1.81	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5270MHz_TX



EUT Y_1TX
Setting 21
03-R-5
FSP

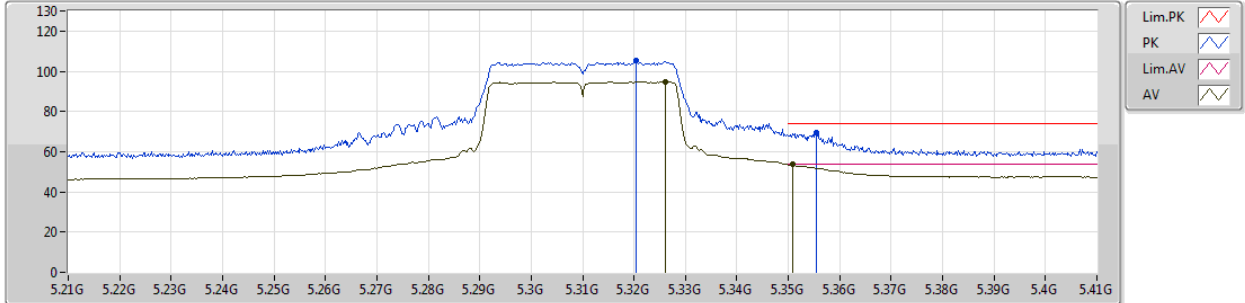
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.80637G	65.17	74.00	-8.83	15.34	3	Horizontal	98	1.77	-
AV	15.80529G	51.02	54.00	-2.98	15.35	3	Horizontal	98	1.77	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5310MHz_TX



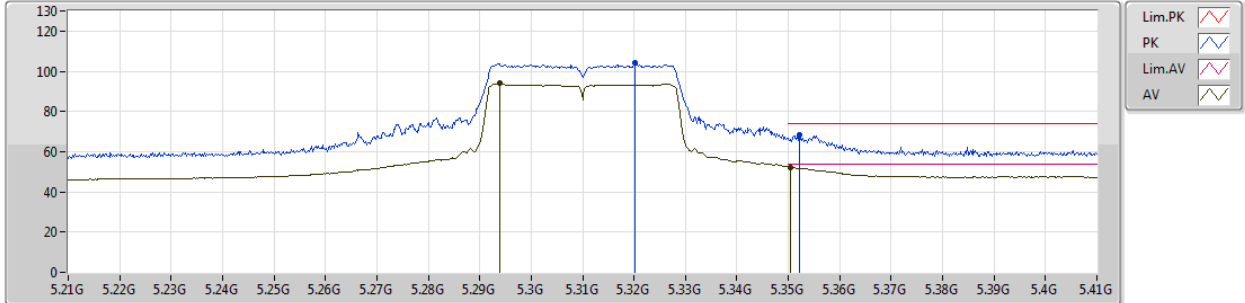
EUT Y_1TX
Setting 0C
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3204G	105.12	Inf	-Inf	6.54	3	Vertical	0	2.48	-
AV	5.326G	94.93	Inf	-Inf	6.56	3	Vertical	0	2.48	-
PK	5.3554G	69.60	74.00	-4.40	6.62	3	Vertical	0	2.48	-
AV	5.3508G	53.59	54.00	-0.41	6.61	3	Vertical	0	2.48	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5310MHz_TX



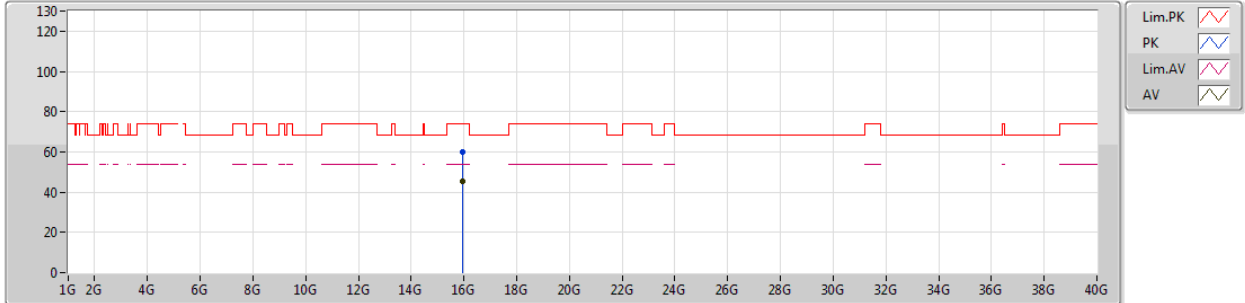
EUT Y_1TX
Setting 0C
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3202G	104.03	Inf	-Inf	6.54	3	Horizontal	223	2.19	-
AV	5.2938G	93.87	Inf	-Inf	6.47	3	Horizontal	223	2.19	-
PK	5.3522G	68.17	74.00	-5.83	6.61	3	Horizontal	223	2.19	-
AV	5.3504G	52.34	54.00	-1.66	6.61	3	Horizontal	223	2.19	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5310MHz_TX



EUT Y_1TX
Setting 0C
03-R-5
FSP

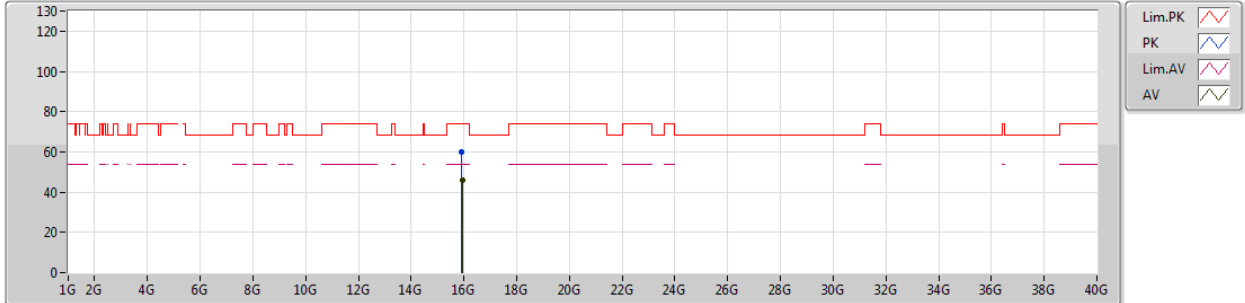
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.94389G	59.78	74.00	-14.22	14.89	3	Vertical	360	1.16	-
AV	15.93354G	45.43	54.00	-8.57	14.93	3	Vertical	360	1.16	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5310MHz_TX



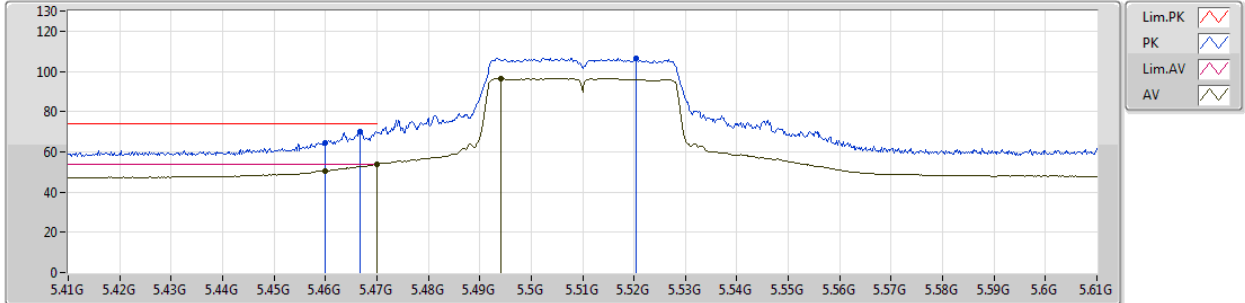
EUT Y_1TX
Setting 0C
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.92445G	59.99	74.00	-14.01	14.96	3	Horizontal	208	2.98	-
AV	15.93669G	45.68	54.00	-8.32	14.91	3	Horizontal	208	2.98	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5510MHz_TX



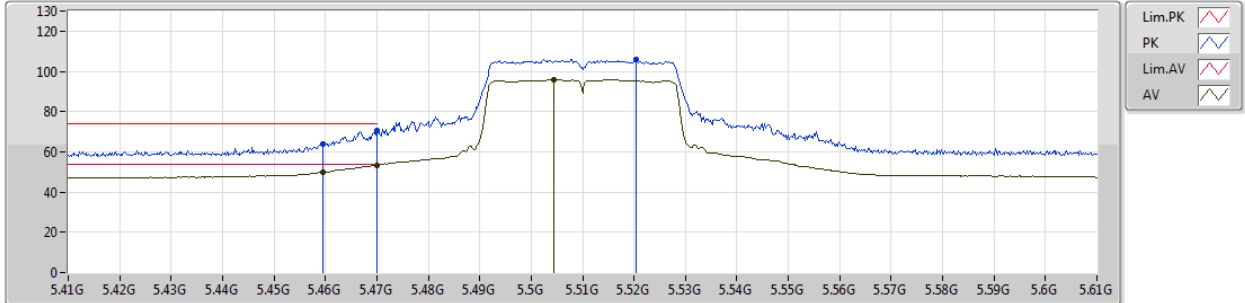
EUT_Y_1TX
Setting 0A
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.46G	64.59	74.00	-9.41	6.89	3	Vertical	0	2.27	-
AV	5.46G	50.56	54.00	-3.44	6.89	3	Vertical	0	2.27	-
PK	5.4668G	70.27	74.00	-3.73	6.91	3	Vertical	0	2.27	-
AV	5.47G	53.75	54.00	-0.25	6.92	3	Vertical	0	2.27	-
PK	5.5204G	106.67	Inf	-Inf	7.01	3	Vertical	0	2.27	-
AV	5.4942G	96.56	Inf	-Inf	6.98	3	Vertical	0	2.27	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5510MHz_TX



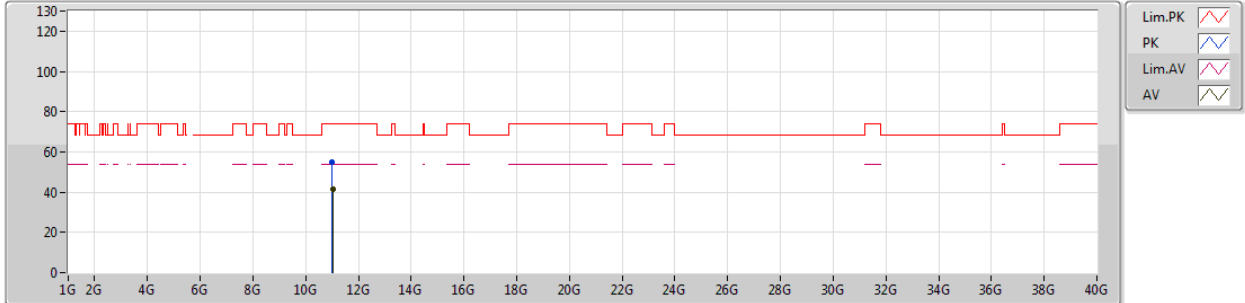
EUT_Y_1TX
Setting 0A
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4596G	63.96	74.00	-10.04	6.89	3	Horizontal	213	2.22	-
AV	5.4596G	49.95	54.00	-4.05	6.89	3	Horizontal	213	2.22	-
PK	5.47G	70.34	74.00	-3.66	6.92	3	Horizontal	213	2.22	-
AV	5.47G	53.37	54.00	-0.63	6.92	3	Horizontal	213	2.22	-
PK	5.5204G	105.92	Inf	-Inf	7.01	3	Horizontal	213	2.22	-
AV	5.5044G	95.84	Inf	-Inf	7.00	3	Horizontal	213	2.22	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5510MHz_TX



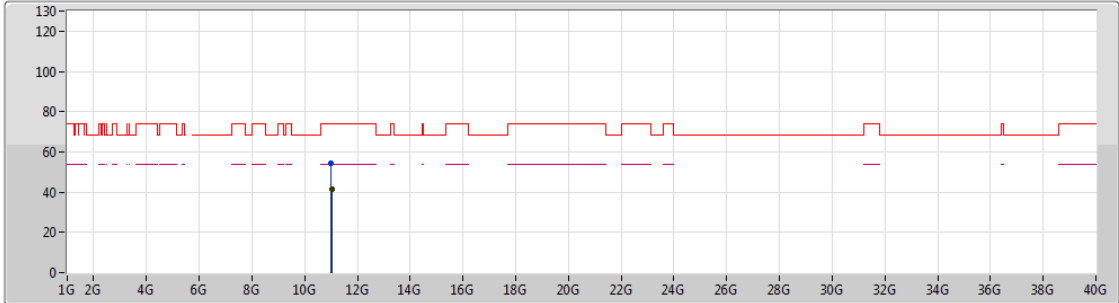
EUT Y_1TX
Setting 0A
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.00785G	55.09	74.00	-18.91	14.03	3	Vertical	269	1.04	-
AV	11.02036G	41.27	54.00	-12.73	14.04	3	Vertical	269	1.04	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5510MHz_TX



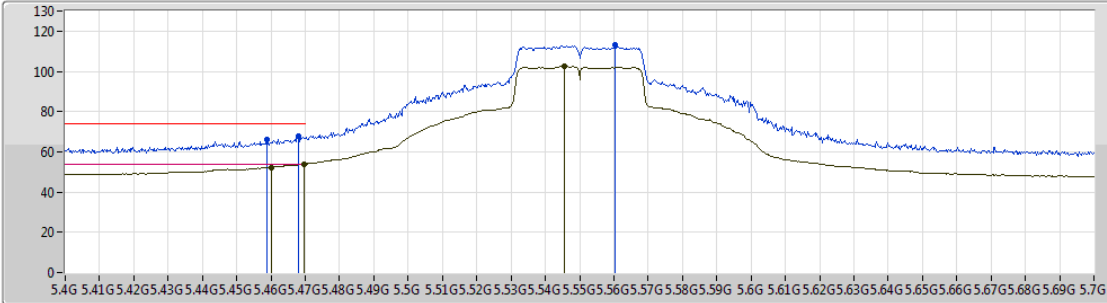
EUT_Y_1TX
Setting 0A
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.01319G	54.58	74.00	-19.42	14.03	3	Horizontal	138	2.79	-
AV	11.02006G	41.28	54.00	-12.72	14.04	3	Horizontal	138	2.79	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5550MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

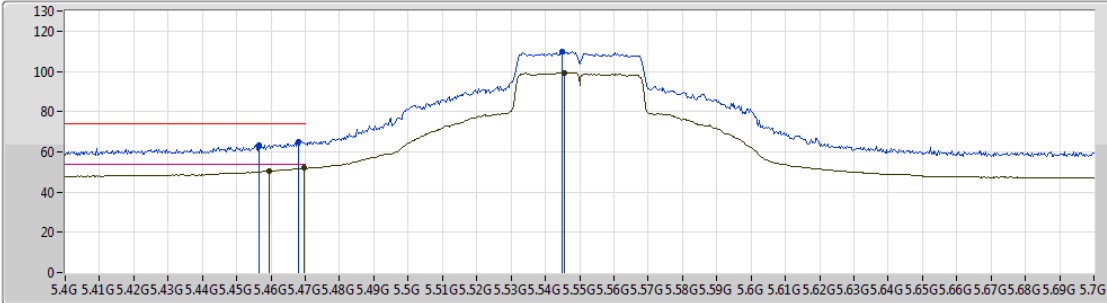
EUT Y_1TX
Setting 18
03-R-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4588G	65.87	74.00	-8.13	6.89	3	Vertical	0	2.36	-
AV	5.46G	52.30	54.00	-1.70	6.89	3	Vertical	0	2.36	-
PK	5.4681G	67.96	74.00	-6.04	6.91	3	Vertical	0	2.36	-
AV	5.4696G	53.95	54.00	-0.05	6.92	3	Vertical	0	2.36	-
PK	5.5602G	112.92	Inf	-Inf	7.04	3	Vertical	0	2.36	-
AV	5.5455G	102.45	Inf	-Inf	7.04	3	Vertical	0	2.36	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5550MHz_TX



EUT_Y_1TX
Setting 18
03-R-5-10
FSP

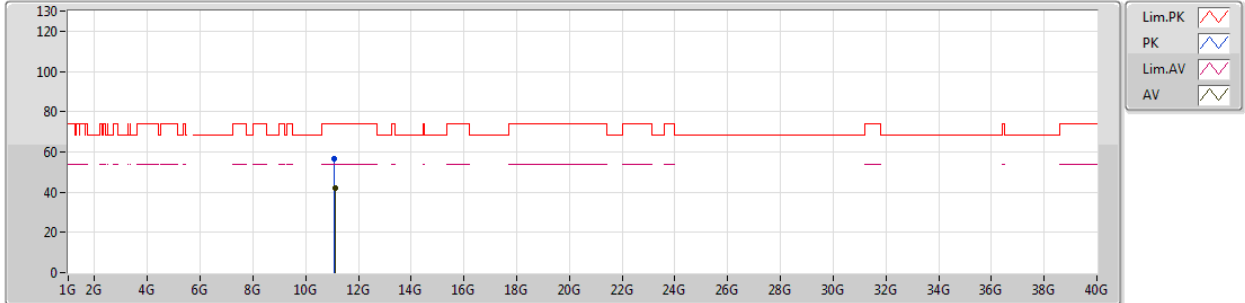
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4564G	63.33	74.00	-10.67	6.88	3	Horizontal	155	2.27	-
AV	5.4594G	50.50	54.00	-3.50	6.89	3	Horizontal	155	2.27	-
PK	5.4681G	65.17	74.00	-8.83	6.91	3	Horizontal	155	2.27	-
AV	5.4696G	51.84	54.00	-2.16	6.92	3	Horizontal	155	2.27	-
PK	5.5449G	109.68	Inf	-Inf	7.04	3	Horizontal	155	2.27	-
AV	5.5455G	99.41	Inf	-Inf	7.04	3	Horizontal	155	2.27	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5550MHz_TX



EUT Y_1TX
Setting 18
03-R-5
FSP

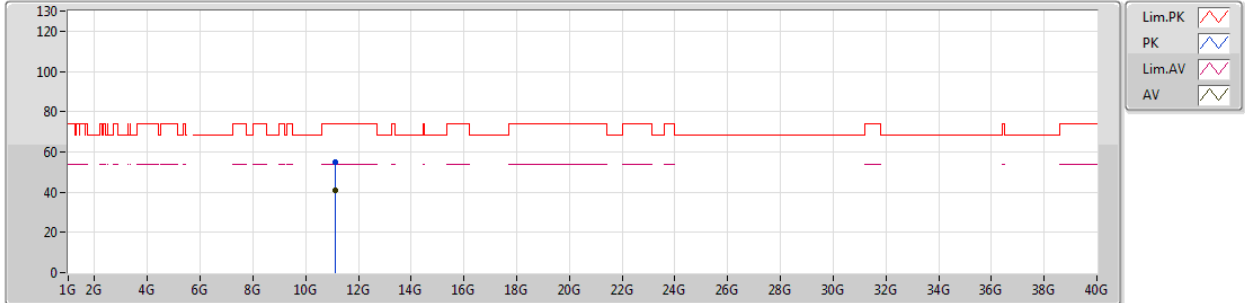
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.1024G	56.46	74.00	-17.54	14.07	3	Vertical	267	1.76	-
AV	11.10606G	42.00	54.00	-12.00	14.07	3	Vertical	267	1.76	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5550MHz_TX



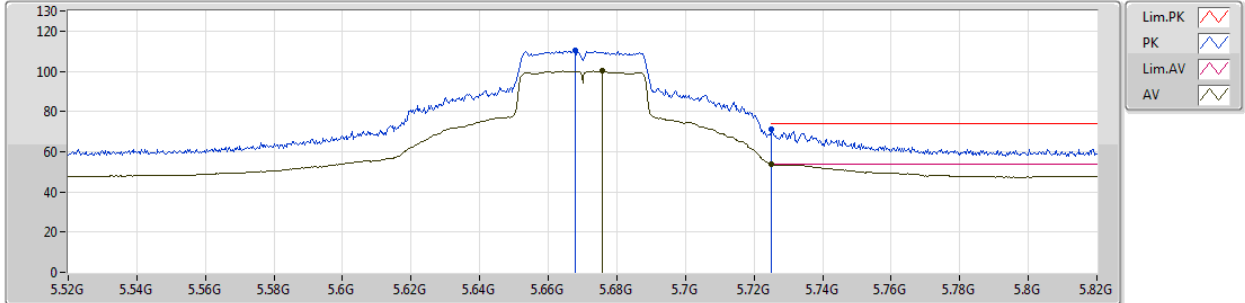
EUT Y_1TX
Setting 18
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.1045G	54.67	74.00	-19.33	14.07	3	Horizontal	125	1.50	-
AV	11.11212G	40.98	54.00	-13.02	14.07	3	Horizontal	125	1.50	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5670MHz_TX



EUT Y_1TX
Setting 15
03-R-5-10
FSP

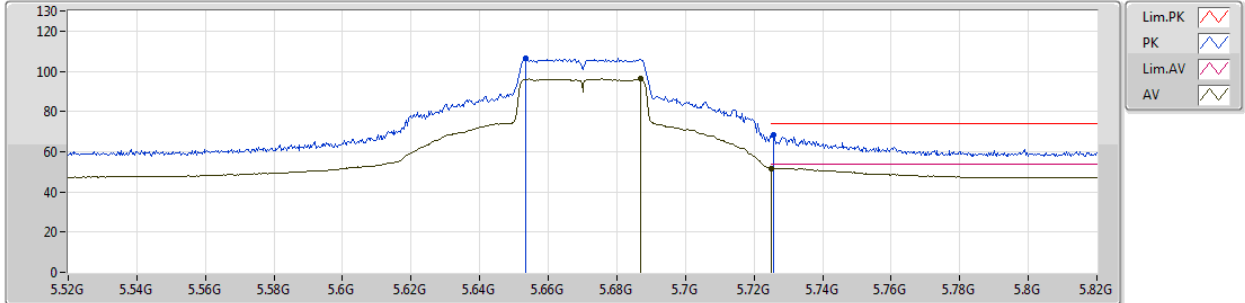
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.6679G	110.32	Inf	-Inf	7.15	3	Vertical	360	2.58	-
AV	5.6757G	100.05	Inf	-Inf	7.17	3	Vertical	360	2.58	-
PK	5.7252G	71.39	74.00	-2.61	7.23	3	Vertical	360	2.58	-
AV	5.7252G	53.68	54.00	-0.32	7.23	3	Vertical	360	2.58	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5670MHz_TX



EUT Y_1TX
Setting 15
03-R-5-10
FSP

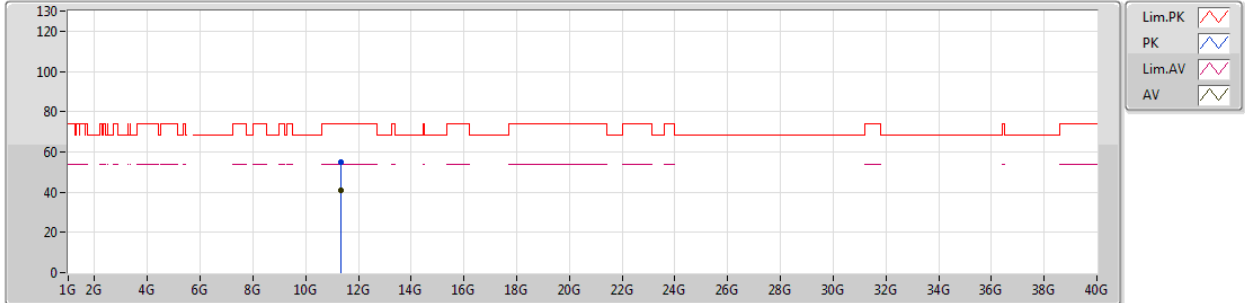
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.6535G	106.24	Inf	-Inf	7.13	3	Horizontal	222	2.58	-
AV	5.6868G	96.22	Inf	-Inf	7.18	3	Horizontal	222	2.58	-
PK	5.7258G	68.48	74.00	-5.52	7.23	3	Horizontal	222	2.58	-
AV	5.7252G	51.59	54.00	-2.41	7.23	3	Horizontal	222	2.58	-



802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5670MHz_TX



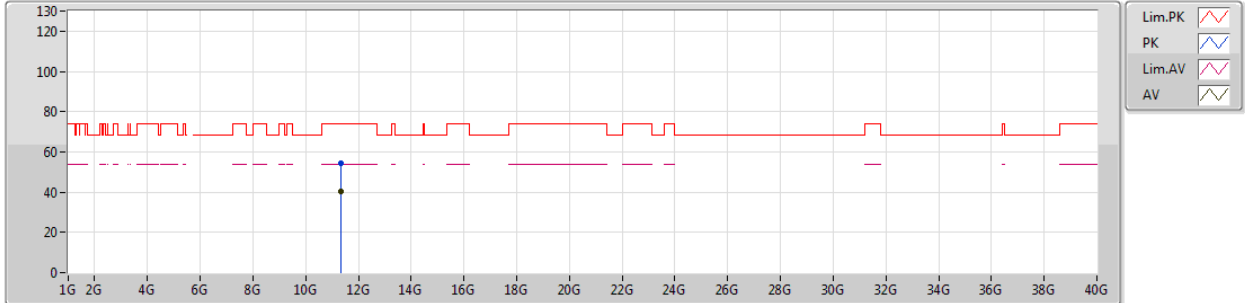
EUT Y_1TX
Setting 15
03-R-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.34018G	55.04	74.00	-18.96	14.18	3	Vertical	283	2.11	-
AV	11.34027G	41.17	54.00	-12.83	14.18	3	Vertical	283	2.11	-

802.11ac VHT40_Nss1,(MCS0)_1TX

24/10/2018

5670MHz_TX



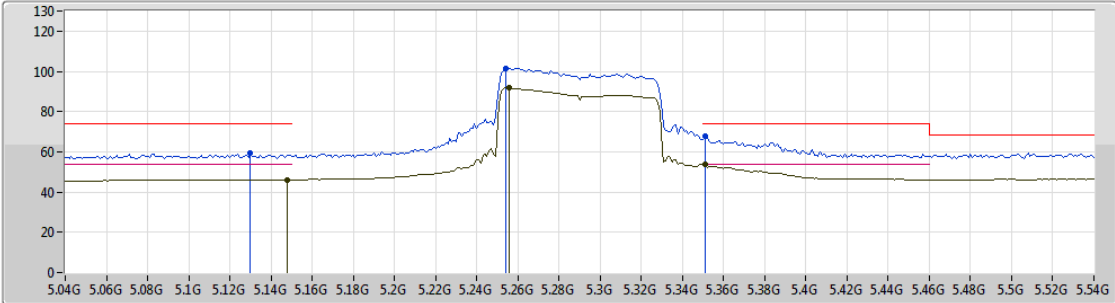
EUT Y_1TX
Setting 15
03-R-5
FSP



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.32926G	54.42	74.00	-19.58	14.17	3	Horizontal	80	1.54	-
AV	11.34996G	40.49	54.00	-13.51	14.19	3	Horizontal	80	1.54	-

802.11ac VHT80_Nss1,(MCS0)_1TX

24/10/2018

5290MHz_TX



Lim.PK 
 PK 
 Lim.AV 
 AV 

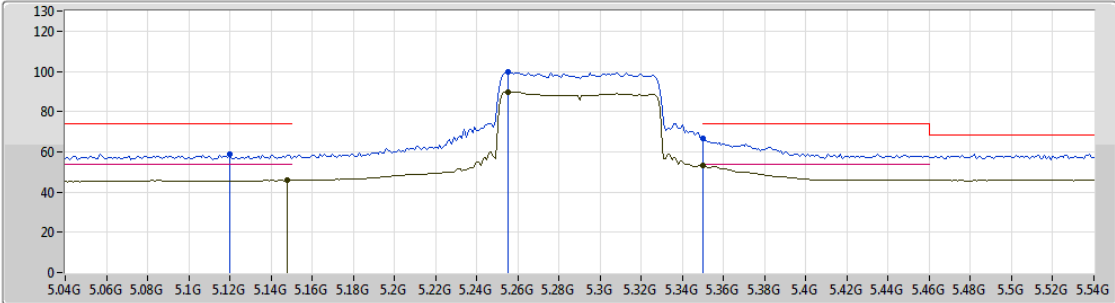
EUT Y_1TX
Setting 07
04-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.13G	59.14	74.00	-14.86	6.24	3	Vertical	0	2.99	-
AV	5.148G	46.18	54.00	-7.82	6.22	3	Vertical	0	2.99	-
PK	5.254G	101.69	Inf	-Inf	6.11	3	Vertical	0	2.99	-
AV	5.256G	91.86	Inf	-Inf	6.11	3	Vertical	0	2.99	-
PK	5.351G	67.79	74.00	-6.21	6.21	3	Vertical	0	2.99	-
AV	5.351G	53.62	54.00	-0.38	6.21	3	Vertical	0	2.99	-

802.11ac VHT80_Nss1,(MCS0)_1TX

24/10/2018

5290MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

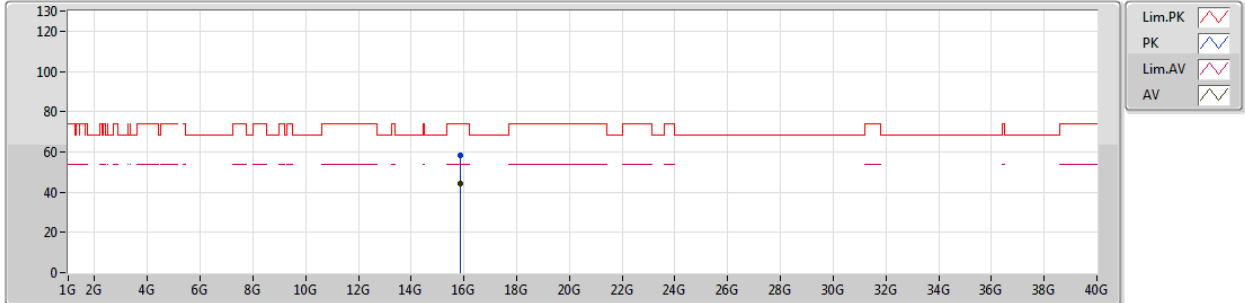
EUT_Y_1TX
Setting 07
04-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.12G	58.63	74.00	-15.37	6.25	3	Horizontal	144	2.09	-
AV	5.148G	45.82	54.00	-8.18	6.22	3	Horizontal	144	2.09	-
PK	5.255G	99.63	Inf	-Inf	6.11	3	Horizontal	144	2.09	-
AV	5.255G	89.86	Inf	-Inf	6.11	3	Horizontal	144	2.09	-
PK	5.35G	66.79	74.00	-7.21	6.21	3	Horizontal	144	2.09	-
AV	5.35G	53.34	54.00	-0.66	6.21	3	Horizontal	144	2.09	-

802.11ac VHT80_Nss1,(MCS0)_1TX

24/10/2018

5290MHz_TX



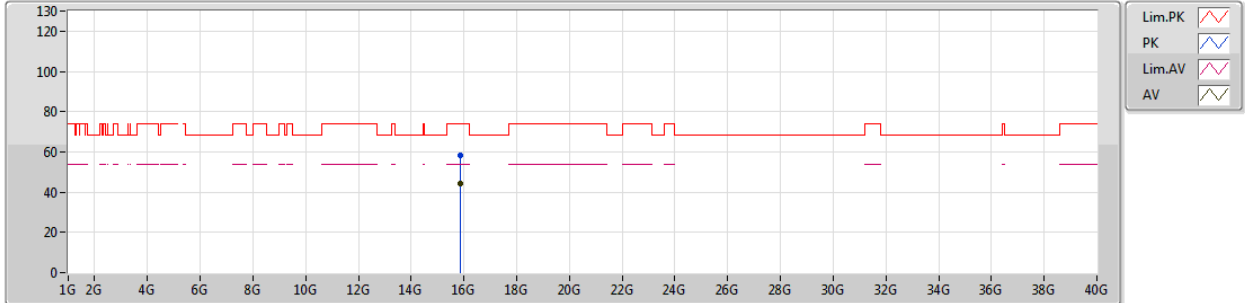
EUT Y_1TX
Setting 07
04-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.8755G	58.32	74.00	-15.68	13.42	3	Vertical	145	1.54	-
AV	15.8488G	44.39	54.00	-9.61	13.52	3	Vertical	145	1.54	-

802.11ac VHT80_Nss1,(MCS0)_1TX

24/10/2018

5290MHz_TX



EUT Y_1TX
Setting 07
04-C-5
FSP

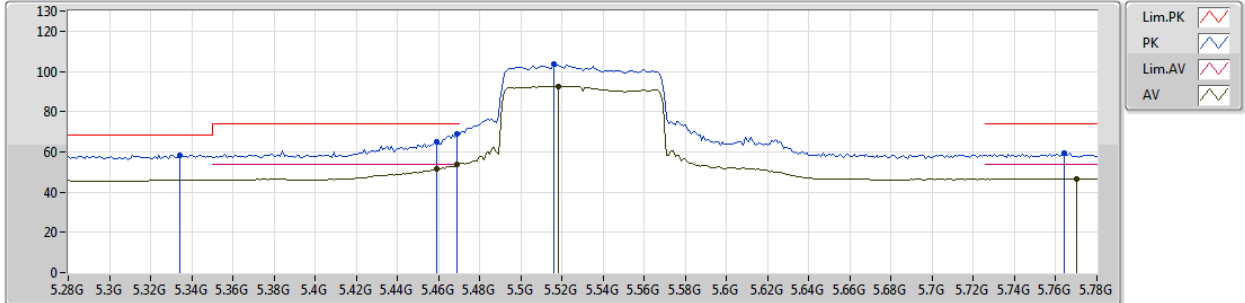
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.8595G	58.48	74.00	-15.52	13.48	3	Horizontal	318	1.04	-
AV	15.8481G	44.37	54.00	-9.63	13.53	3	Horizontal	318	1.04	-



802.11ac VHT80_Nss1,(MCS0)_1TX

24/10/2018

5530MHz_TX



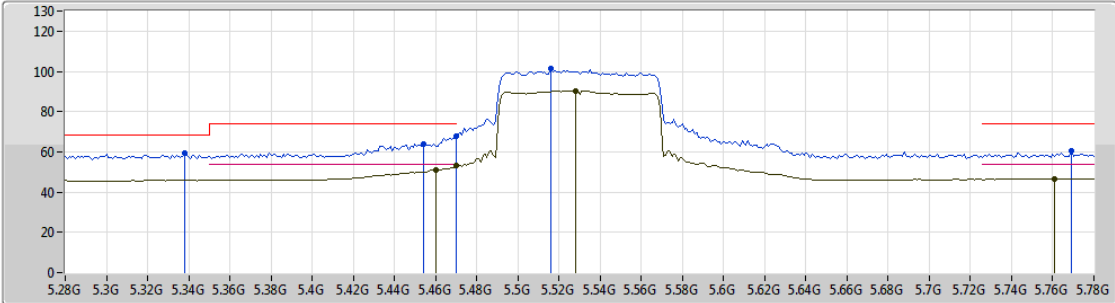
EUT Y_1TX
Setting 07
04-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.334G	58.55	68.20	-9.65	6.14	3	Vertical	359	2.74	-
PK	5.459G	64.97	74.00	-9.03	6.47	3	Vertical	359	2.74	-
AV	5.459G	51.54	54.00	-2.46	6.47	3	Vertical	359	2.74	-
PK	5.469G	68.69	74.00	-5.31	6.49	3	Vertical	359	2.74	-
AV	5.469G	53.91	54.00	-0.09	6.49	3	Vertical	359	2.74	-
PK	5.516G	103.60	Inf	-Inf	6.51	3	Vertical	359	2.74	-
AV	5.518G	92.68	Inf	-Inf	6.51	3	Vertical	359	2.74	-
PK	5.764G	59.54	74.00	-14.46	6.75	3	Vertical	359	2.74	-
AV	5.77G	46.68	54.00	-7.32	6.76	3	Vertical	359	2.74	-

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5530MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

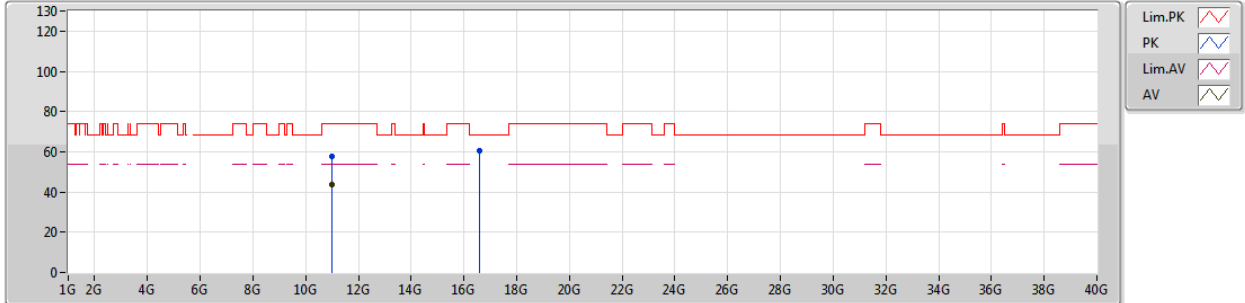
EUT_Y_1TX
Setting 07
04-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.338G	59.12	68.20	-9.08	6.15	3	Horizontal	143	1.98	-
PK	5.454G	64.15	74.00	-9.85	6.47	3	Horizontal	143	1.98	-
AV	5.46G	51.01	54.00	-2.99	6.47	3	Horizontal	143	1.98	-
PK	5.47G	67.90	74.00	-6.10	6.49	3	Horizontal	143	1.98	-
AV	5.47G	53.08	54.00	-0.92	6.49	3	Horizontal	143	1.98	-
PK	5.516G	101.22	Inf	-Inf	6.51	3	Horizontal	143	1.98	-
AV	5.528G	90.39	Inf	-Inf	6.49	3	Horizontal	143	1.98	-
PK	5.769G	60.33	74.00	-13.67	6.76	3	Horizontal	143	1.98	-
AV	5.761G	46.61	54.00	-7.39	6.74	3	Horizontal	143	1.98	-

802.11ac VHT80_Nss1,(MCS0)_1TX

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EUT Y_1TX
Setting 07
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.983G	57.99	74.00	-16.01	14.80	3	Vertical	331	2.91	-
AV	10.9914G	43.87	54.00	-10.13	14.81	3	Vertical	331	2.91	-
PK	16.5851G	60.64	68.20	-7.56	15.06	3	Vertical	9	1.50	-

802.11ac VHT80_Nss1,(MCS0)_1TX

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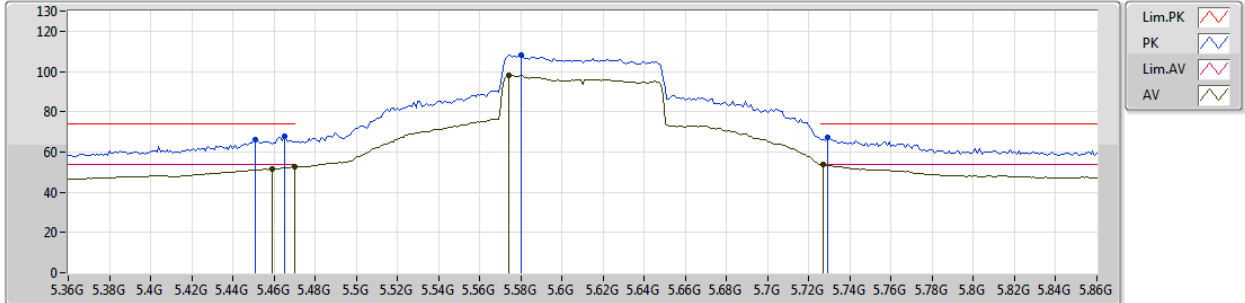
EUT Y_1TX
Setting 07
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.968G	57.74	74.00	-16.26	14.79	3	Horizontal	26	2.35	-
AV	10.997G	43.93	54.00	-10.07	14.81	3	Horizontal	26	2.35	-
PK	16.8G	61.03	68.20	-7.17	15.86	3	Horizontal	82	1.50	-

802.11ac VHT80_Nss1,(MCS0)_1TX

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5610MHz_TX



EUT Y_1TX
Setting 14
04-C-5-10
FSP

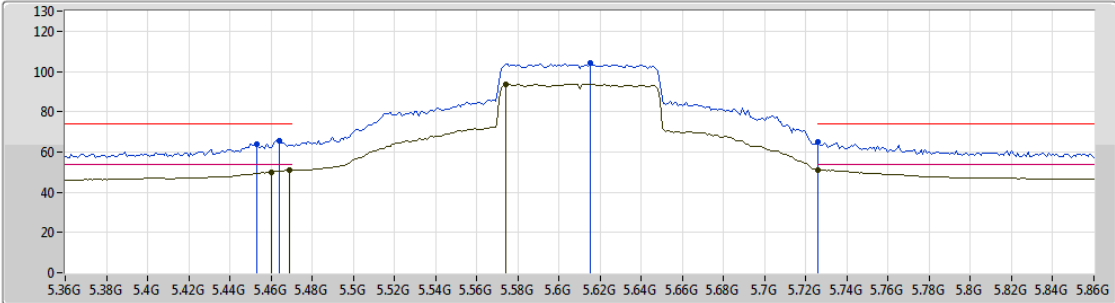
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.451G	65.94	74.00	-8.06	6.46	3	Vertical	357	2.69	-
AV	5.459G	51.46	54.00	-2.54	6.47	3	Vertical	357	2.69	-
PK	5.465G	67.84	74.00	-6.16	6.48	3	Vertical	357	2.69	-
AV	5.47G	52.45	54.00	-1.55	6.49	3	Vertical	357	2.69	-
PK	5.58G	108.22	Inf	-Inf	6.41	3	Vertical	357	2.69	-
AV	5.574G	98.19	Inf	-Inf	6.43	3	Vertical	357	2.69	-
PK	5.729G	67.12	74.00	-6.88	6.68	3	Vertical	357	2.69	-
AV	5.727G	53.79	54.00	-0.21	6.67	3	Vertical	357	2.69	-



802.11ac VHT80_Nss1,(MCS0)_1TX

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Lim.PK
 PK
 Lim.AV
 AV

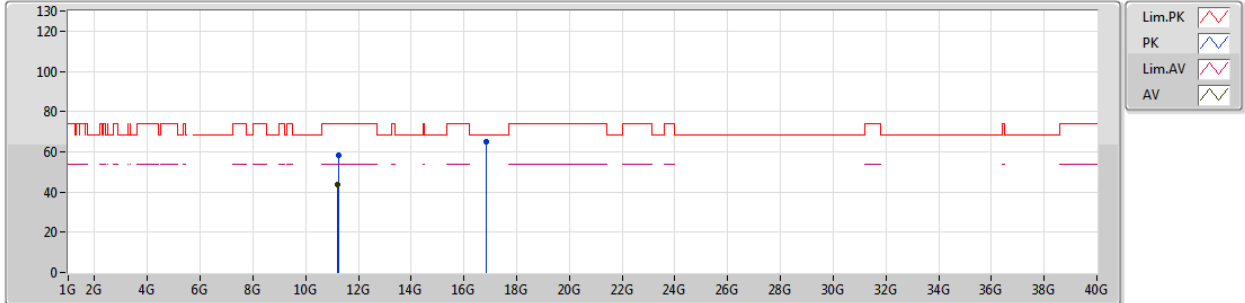
EUT Y_1TX
Setting 14
04-C-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.453G	64.04	74.00	-9.96	6.47	3	Horizontal	137	1.02	-
AV	5.46G	49.85	54.00	-4.15	6.47	3	Horizontal	137	1.02	-
PK	5.464G	65.44	74.00	-8.56	6.48	3	Horizontal	137	1.02	-
AV	5.469G	50.77	54.00	-3.23	6.49	3	Horizontal	137	1.02	-
PK	5.615G	104.37	Inf	-Inf	6.41	3	Horizontal	137	1.02	-
AV	5.574G	93.73	Inf	-Inf	6.43	3	Horizontal	137	1.02	-
PK	5.726G	64.96	74.00	-9.04	6.67	3	Horizontal	137	1.02	-
AV	5.726G	50.93	54.00	-3.07	6.67	3	Horizontal	137	1.02	-

802.11ac VHT80_Nss1,(MCS0)_1TX

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EUT Y_1TX
Setting 14
04-C-5
FSP

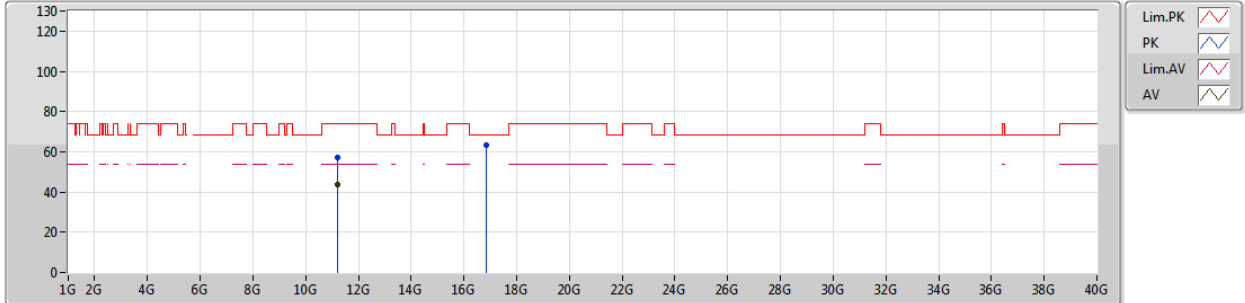
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.2388G	58.03	74.00	-15.97	14.55	3	Vertical	149	2.21	-
AV	11.2283G	43.78	54.00	-10.22	14.56	3	Vertical	149	2.21	-
PK	16.8265G	64.72	68.20	-3.48	15.96	3	Vertical	183	2.76	-



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EUT Y_1TX
Setting 14
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.2285G	57.13	74.00	-16.87	14.56	3	Horizontal	130	1.89	-
AV	11.2296G	43.68	54.00	-10.32	14.56	3	Horizontal	130	1.89	-
PK	16.8397G	63.13	68.20	-5.07	16.01	3	Horizontal	267	1.64	-