



RADIO TEST REPORT

FCC ID : VW3FAST3890
Equipment : DOCSIS Wireless Router
Brand Name : SAGEMCOM
Model Name : F@ST 3890 V3 LLA
Applicant : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Manufacturer : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 04, 2021, and testing was started from Mar. 04, 2021 and completed on Mar. 29, 2021. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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Photographs of EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR130211AB	01	Initial issue of report	Apr. 26, 2021



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**

Report Producer: **Viola 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	4
5.15-5.25GHz	802.11n HT20	20	4
5.15-5.25GHz	802.11ac VHT20	20	4
5.15-5.25GHz	802.11n HT40	40	4
5.15-5.25GHz	802.11ac VHT40	40	4
5.15-5.25GHz	802.11ac VHT80	80	4
5.725-5.85GHz	802.11a	20	4
5.725-5.85GHz	802.11n HT20	20	4
5.725-5.85GHz	802.11ac VHT20	20	4
5.725-5.85GHz	802.11n HT40	40	4
5.725-5.85GHz	802.11ac VHT40	40	4
5.725-5.85GHz	802.11ac VHT80	80	4

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	2.4GHz Port	5GHz Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	4	UC3WFI0256A	UC3WFI0256A	Dipole Antenna	I-PEX	Note 1
2	2	3	UC3WFI0220A	UC3WFI0220A	Dipole Antenna	I-PEX	
3	3	2	UC3WFI0221A	UC3WFI0221A	Dipole Antenna	I-PEX	
4	4	1	UC3WFI0258A	UC3WFI0258A	Dipole Antenna	I-PEX	

Note 1:

Ant.	Gain (dBi)		
	2.4GHz	5GHz Band 1	5GHz Band 4
1	4.43	3.21	2.5
2	3.68	3.75	2.27
3	4.2	3.39	2.53
4	2.96	3.39	3.94
Directional Gain (dBi) (4T1S)	5.88	5.05	5.21

Note 2: The above information was declared by manufacturer.

For 2.4GHz WLAN function

IEEE 802.11b/g/n/VHT mode (4TX/4RX):

Port 1, port 2, port 3 and port 4 can be used as transmitting/receiving antenna.

Port 1, port 2, port 3 and port 4 could transmit/receive simultaneously.

For 5GHz WLAN function

IEEE 802.11a/n/ac mode (4TX/4RX):

Port 1, port 2, port 3 and port 4 can be used as transmitting/receiving antenna.

Port 1, port 2, port 3 and port 4 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.953	0.21	2.068m	1k
802.11ac VHT20	0.985	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.972	0.12	953.75u	3k
802.11ac VHT80	0.942	0.26	460.625u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
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	Mtool 3.2.1.1			

Note: The above information was declared by manufacturer.



1.2 Applicable 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

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Lucas Huang	20.5-20.9 / 51-57	Mar. 08, 2021
Radiated (For below 1GHz and co-location)	03CH05-CB	Gino Huang	20.4-21.5 / 57-59	Mar. 04, 2021~Mar. 25, 2021
Radiated (For above 1GHz)	03CH01-CB	Gino Huang	20.1-21.3 / 56-58	Mar. 04, 2021~Mar. 25, 2021
AC Conduction	CO02-CB	Wei Li	23-24 / 56-59	Mar. 29, 2021

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)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	97
5200MHz	100
5240MHz	100
5745MHz	81
5785MHz	81
5825MHz	77
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	87
5200MHz	100
5240MHz	100
5745MHz	84
5785MHz	82
5825MHz	82
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	71
5230MHz	99
5755MHz	84
5795MHz	81
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	69
5775MHz	94

Note:

- ♦ Evaluated VHT20/VHT40/VHT80 mode only, due to similar modulation. The power setting of HT20/HT40 mode are the same or lower than VHT20/VHT40.

2.2 Test Voltage

120 V / 60 Hz



2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	EUT_2.4GHz + Adpater
2	EUT_5GHz + Adpater
For operating mode 1 is the worst case and it was record in this test report.	

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	EUT_2.4GHz + Adpater
2	EUT_5GHz + Adpater
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

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	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.: FA130211 for Co-location RF Exposure Evaluation.

Note: The EUT can only be used at Y axis position.

2.4 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.

2.5 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	Sagemcom	NBS42E120350VU	INPUT: 100-240V ~ 50/60Hz, 1.0A OUTPUT: 12V, 3.5A

2.6 Support Equipment

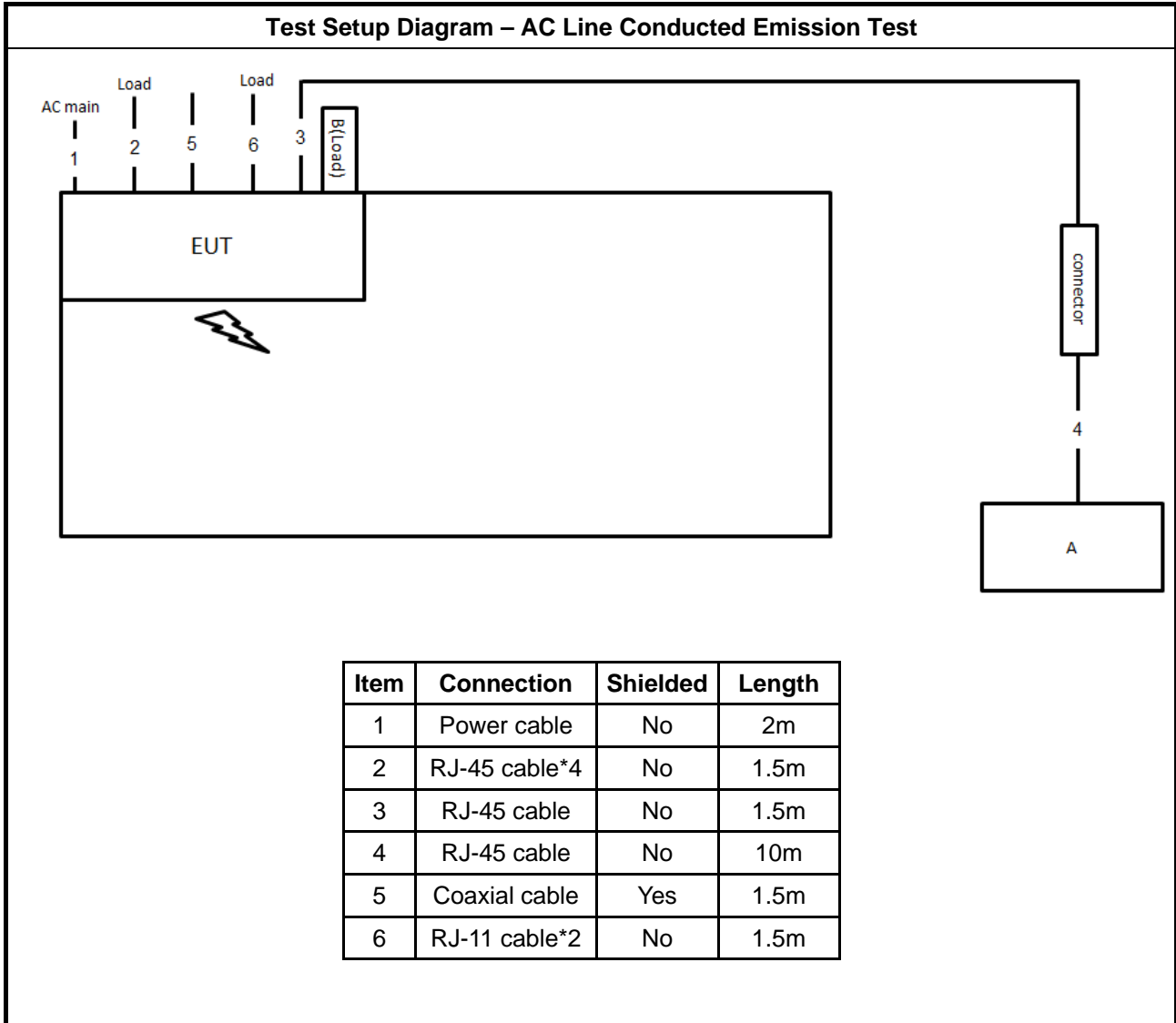
For AC Conduction:

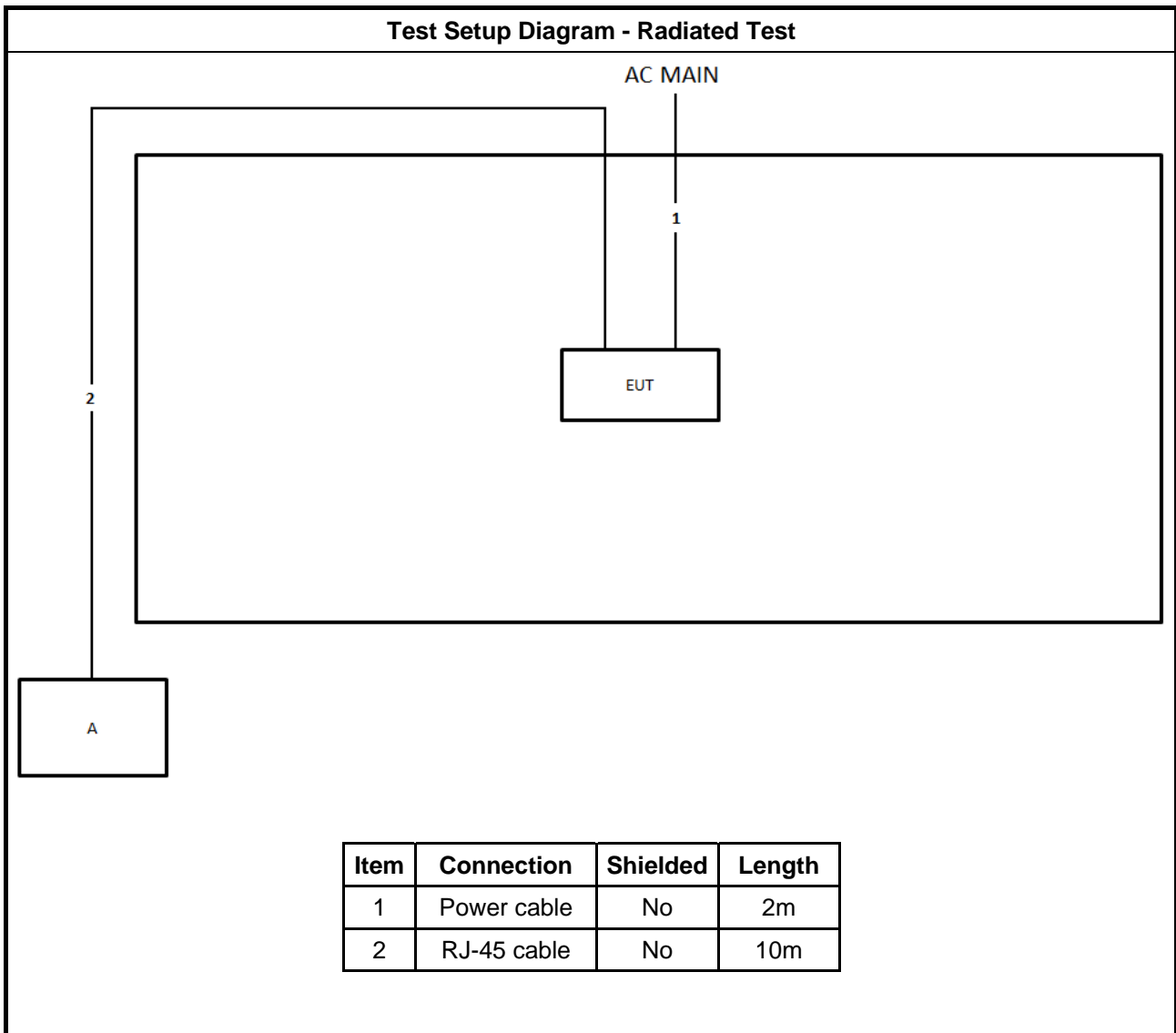
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated and RF Conducted:

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

2.7 Test Setup Diagram







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.

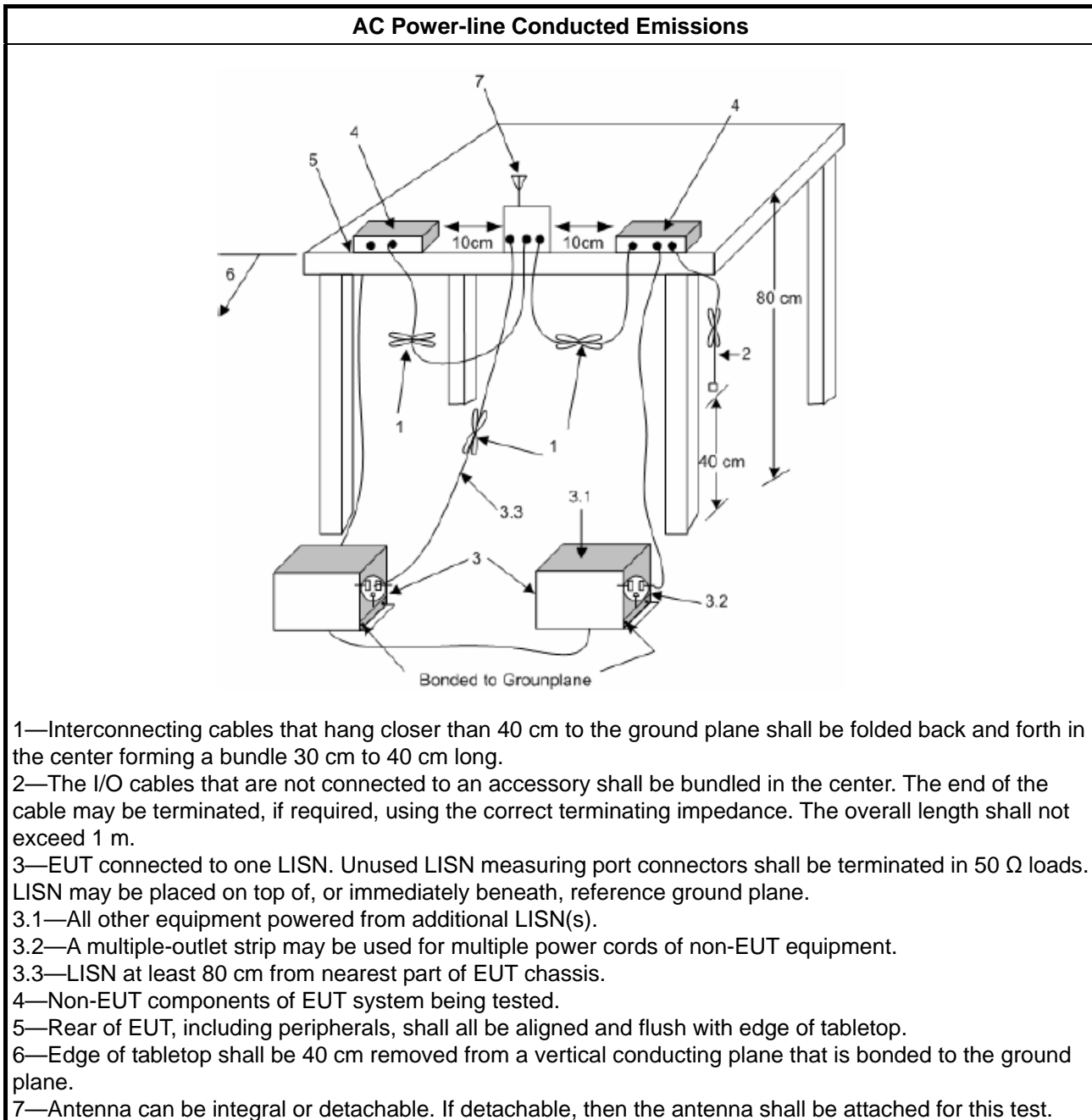
3.1.2 Measuring Instruments

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 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 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.

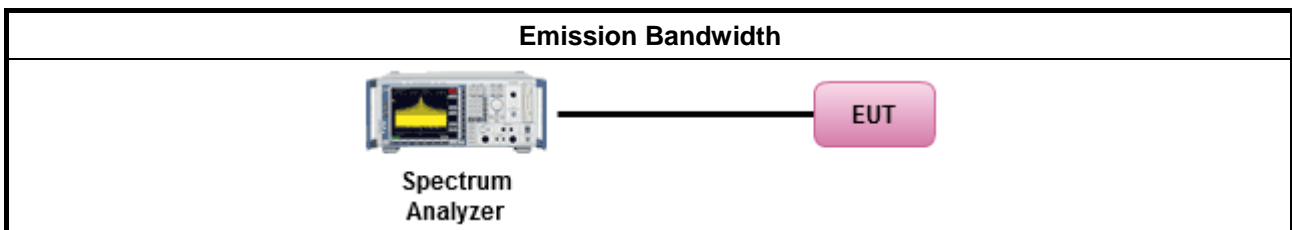
3.2.2 Measuring Instruments

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: 30px;"><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.	

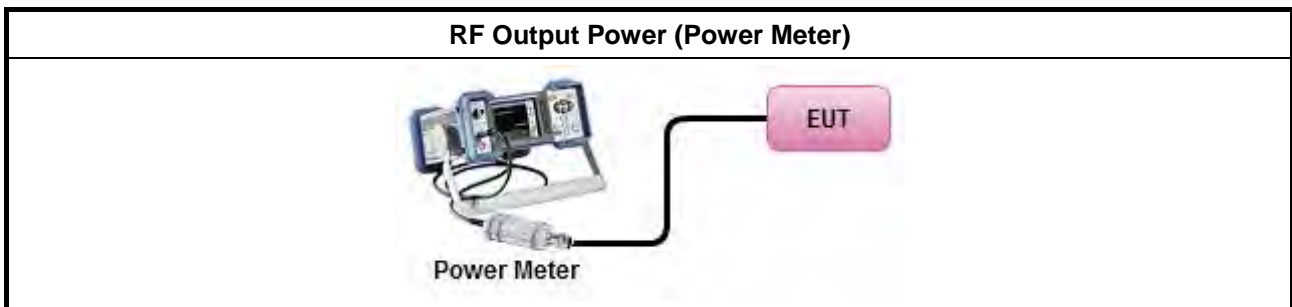
3.3.2 Measuring Instruments

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 ($\theta-8$) 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:	
	<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

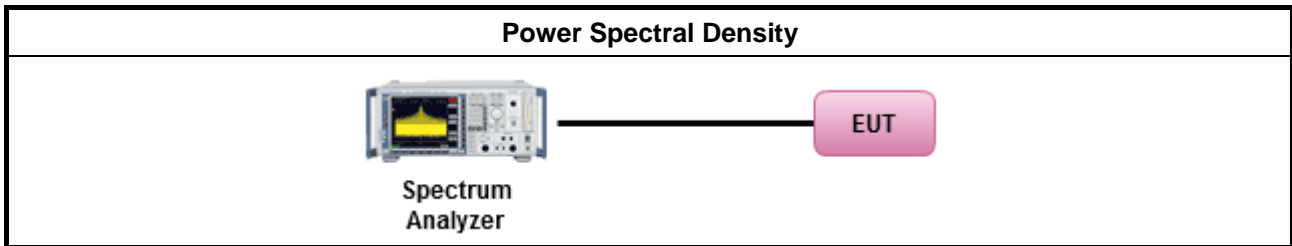
Refer a test equipment and calibration data table in this test report.



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, F5) 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 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).

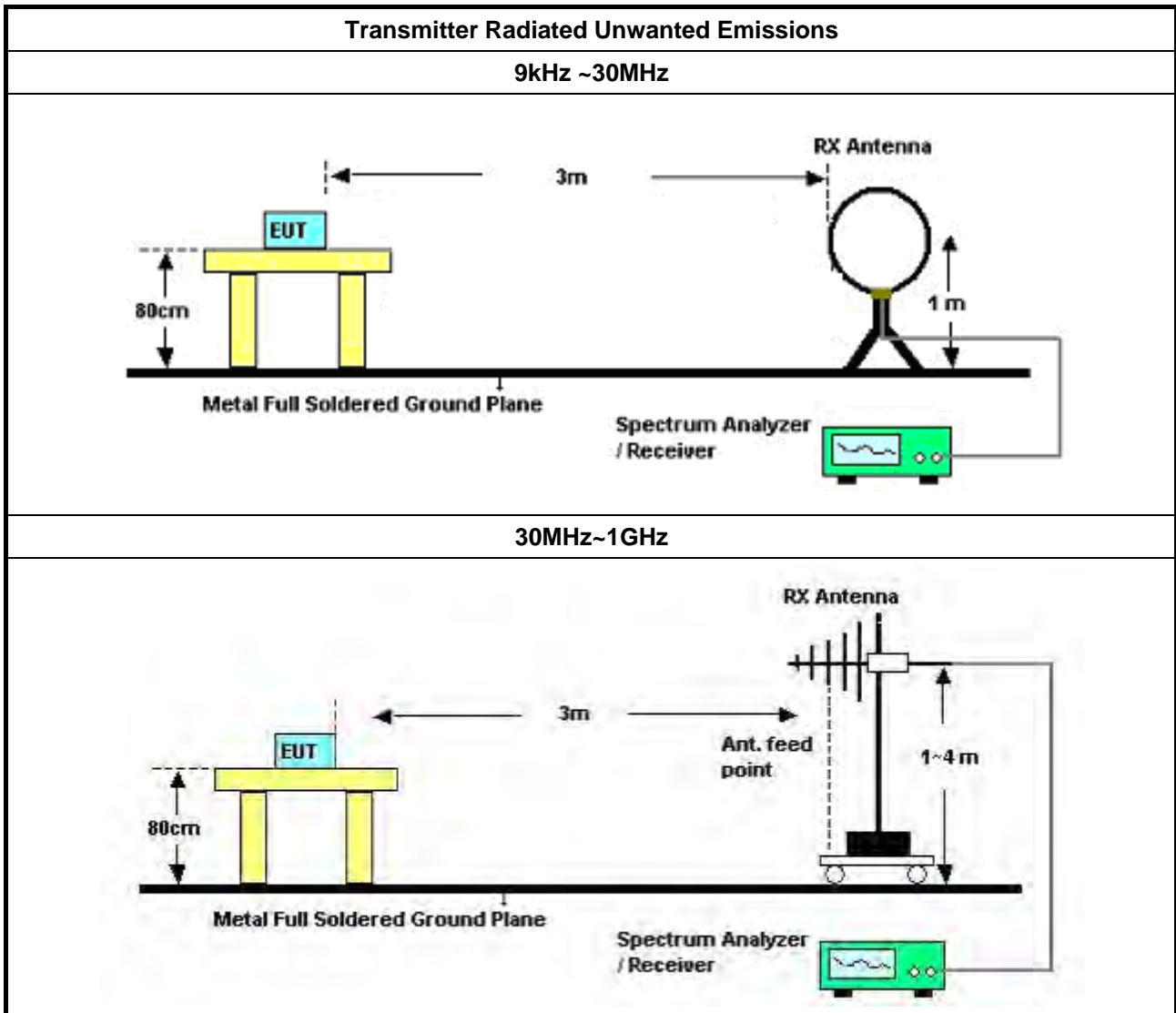
3.5.2 Measuring Instruments

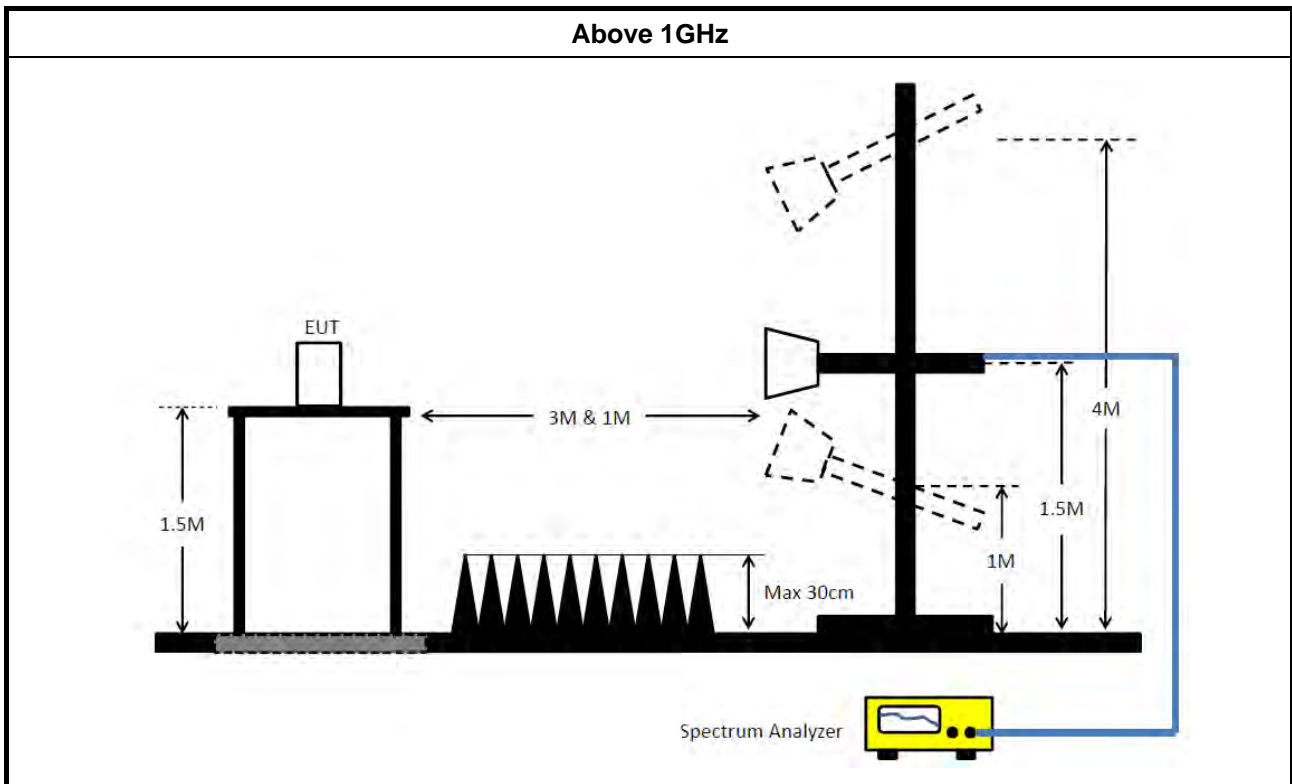
Refer a test equipment and calibration data table in this test report.

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 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.

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz~30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGR EN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 07, 2021	Jan. 06, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

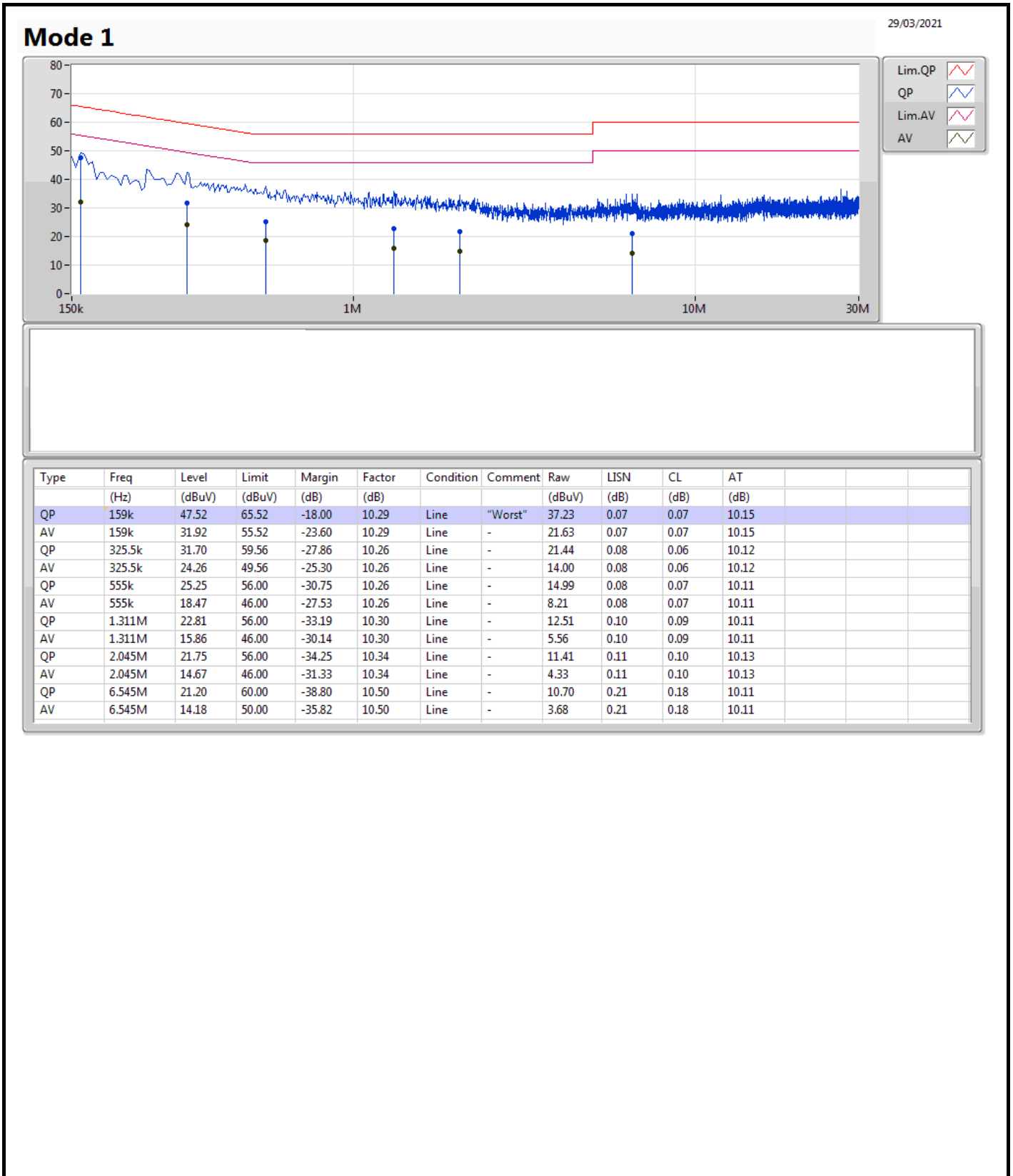
Note: Calibration Interval of instruments listed above is one year.

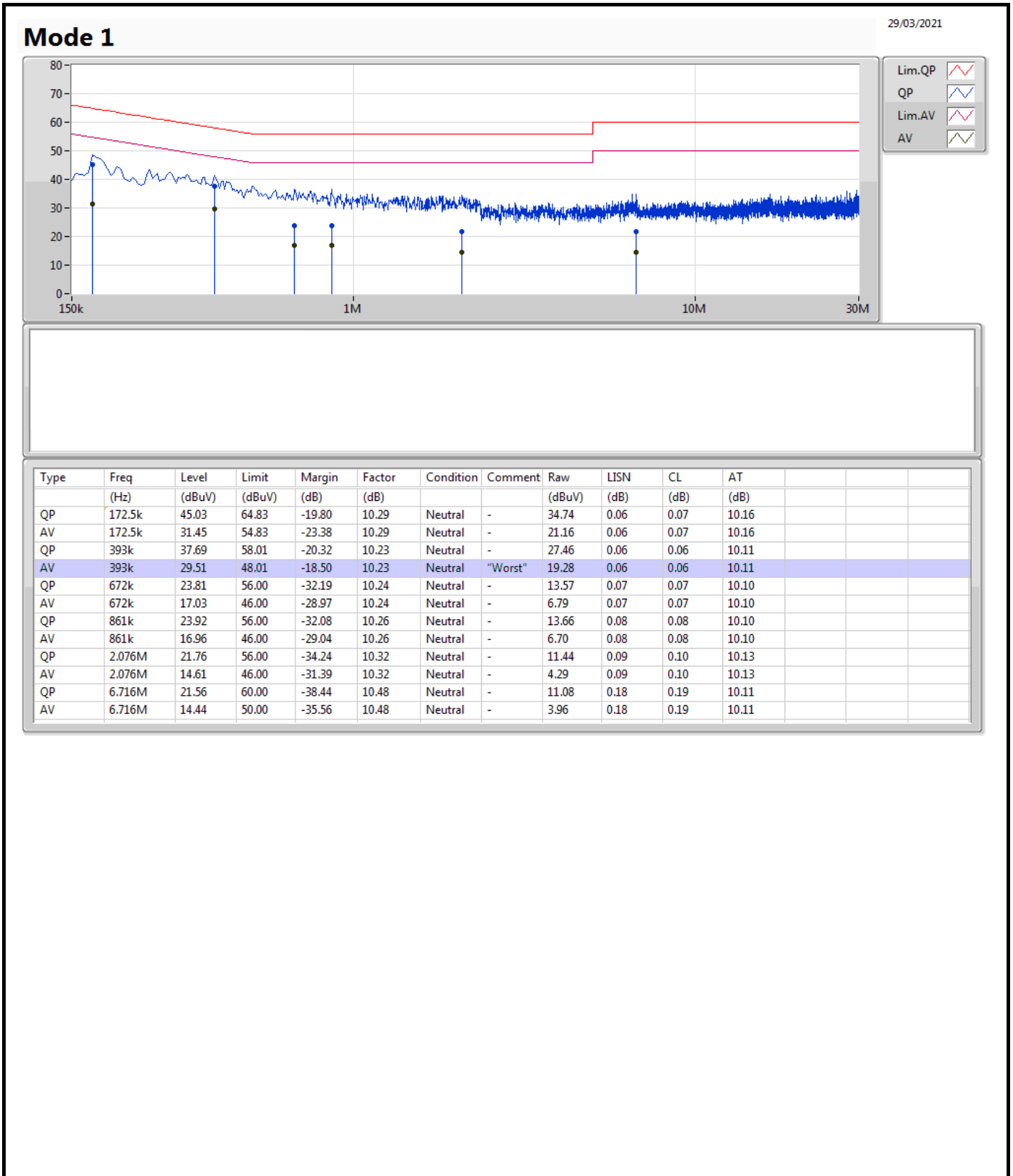
N.C.R. means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	159k	47.52	65.52	-18.00	Line





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)_4TX	30.9M	17.571M	17M6D1D	23.79M	16.882M
802.11ac VHT20_Nss1,(MCS0)_4TX	35.61M	18.471M	18M5D1D	21.72M	17.871M
802.11ac VHT40_Nss1,(MCS0)_4TX	68.52M	37.061M	37M1D1D	39.54M	36.342M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.48M	74.963M	75MOD1D	80.76M	74.843M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	16.852M	16M9D1D	16.32M	16.702M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.61M	17.961M	18MOD1D	17.58M	17.871M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.48M	36.582M	36M6D1D	36.3M	36.342M
802.11ac VHT80_Nss1,(MCS0)_4TX	76.32M	76.042M	76MOD1D	75.48M	75.922M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	27.66M	17.061M	23.91M	16.882M	23.79M	17.091M	25.71M	17.031M
5200MHz	Pass	Inf	30.9M	17.571M	30.06M	17.241M	27.66M	17.181M	30.15M	17.391M
5240MHz	Pass	Inf	30.09M	17.541M	29.91M	17.211M	29.61M	17.181M	29.64M	17.391M
5745MHz	Pass	500k	16.35M	16.822M	16.32M	16.732M	16.35M	16.822M	16.32M	16.822M
5785MHz	Pass	500k	16.35M	16.792M	16.35M	16.732M	16.32M	16.822M	16.35M	16.852M
5825MHz	Pass	500k	16.35M	16.792M	16.35M	16.702M	16.35M	16.792M	16.35M	16.822M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	25.05M	17.901M	21.72M	17.901M	22.14M	17.871M	22.23M	17.991M
5200MHz	Pass	Inf	34.35M	18.471M	33M	18.321M	31.05M	18.141M	31.35M	18.351M
5240MHz	Pass	Inf	35.61M	18.411M	32.88M	18.321M	33.39M	18.111M	31.05M	18.321M
5745MHz	Pass	500k	17.58M	17.901M	17.58M	17.871M	17.61M	17.871M	17.58M	17.961M
5785MHz	Pass	500k	17.58M	17.871M	17.58M	17.871M	17.58M	17.871M	17.58M	17.961M
5825MHz	Pass	500k	17.58M	17.871M	17.58M	17.871M	17.58M	17.871M	17.58M	17.931M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.78M	36.342M	40.14M	36.342M	39.54M	36.342M	40.2M	36.462M
5230MHz	Pass	Inf	68.52M	36.762M	67.74M	36.762M	66.18M	36.582M	68.34M	37.061M
5755MHz	Pass	500k	36.42M	36.462M	36.3M	36.522M	36.48M	36.402M	36.3M	36.582M
5795MHz	Pass	500k	36.3M	36.402M	36.3M	36.402M	36.3M	36.342M	36.3M	36.462M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.76M	74.963M	80.88M	74.843M	81.48M	74.963M	81.24M	74.963M
5775MHz	Pass	500k	76.32M	76.042M	76.08M	76.042M	76.32M	75.922M	75.48M	76.042M

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

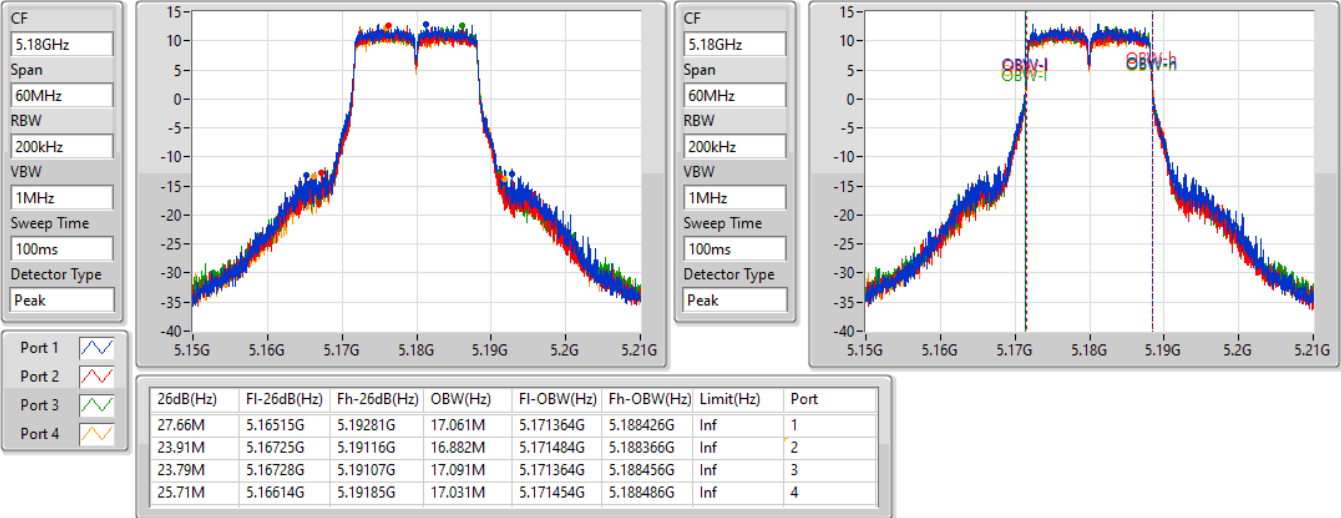
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

08/03/2021

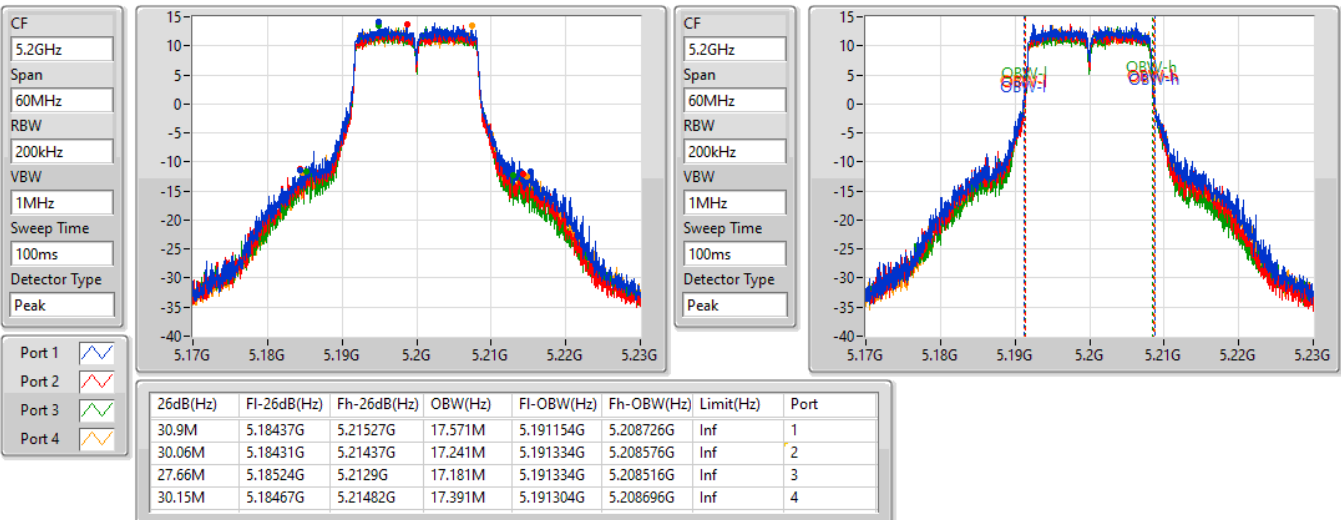


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

08/03/2021



802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

08/03/2021

CF
5.24GHz

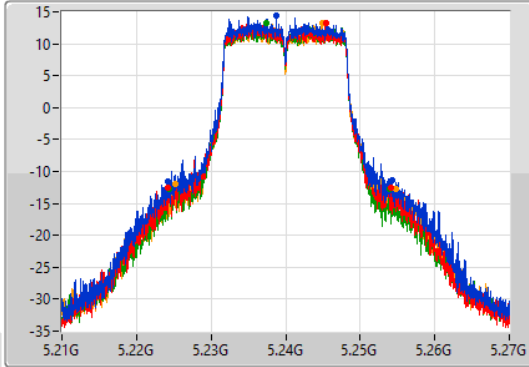
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.24GHz

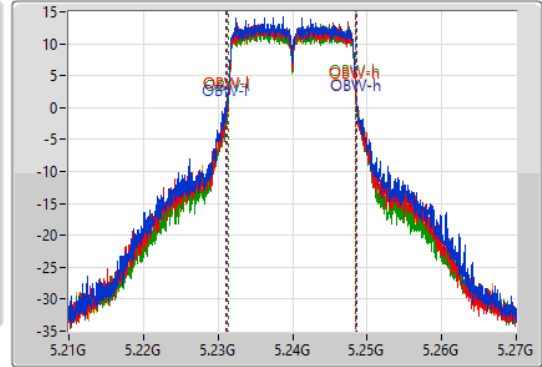
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.09M	5.22428G	5.25437G	17.541M	5.231094G	5.248636G	Inf	1
29.91M	5.22425G	5.25416G	17.211M	5.231304G	5.248516G	Inf	2
29.61M	5.22431G	5.25392G	17.181M	5.231334G	5.248516G	Inf	3
29.64M	5.22518G	5.25482G	17.391M	5.231274G	5.248666G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

08/03/2021

CF
5.745GHz

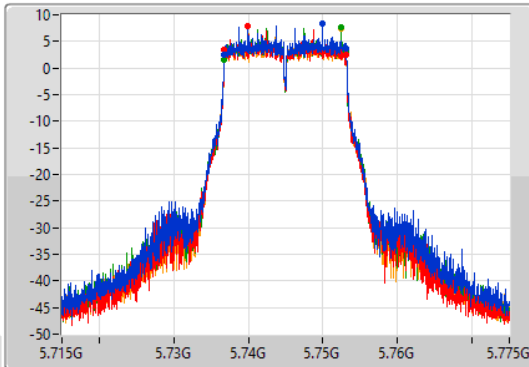
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.745GHz

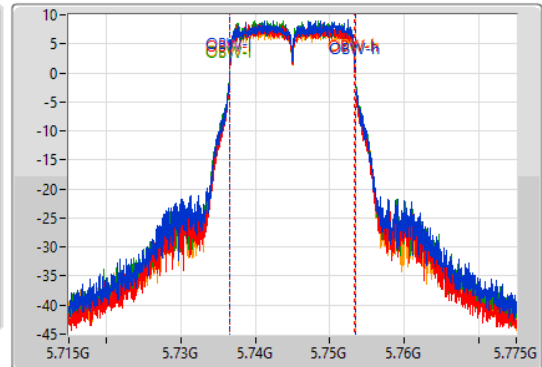
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.73678G	5.75313G	16.822M	5.736574G	5.753396G	500k	1
16.32M	5.73681G	5.75313G	16.732M	5.736604G	5.753336G	500k	2
16.35M	5.73678G	5.75313G	16.822M	5.736544G	5.753366G	500k	3
16.32M	5.73681G	5.75313G	16.822M	5.736544G	5.753366G	500k	4

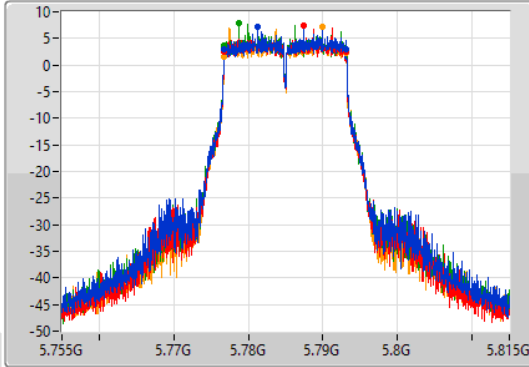
802.11a_Nss1,(6Mbps)_4TX

EBW

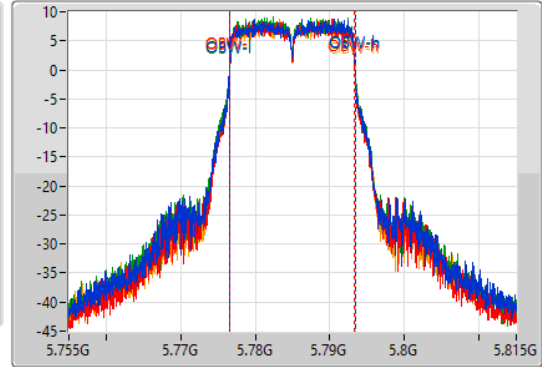
5785MHz

08/03/2021

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.77678G	5.79313G	16.792M	5.776574G	5.793366G	500k	1
16.35M	5.77678G	5.79313G	16.732M	5.776604G	5.793336G	500k	2
16.32M	5.77681G	5.79313G	16.822M	5.776544G	5.793366G	500k	3
16.35M	5.77678G	5.79313G	16.852M	5.776544G	5.793396G	500k	4

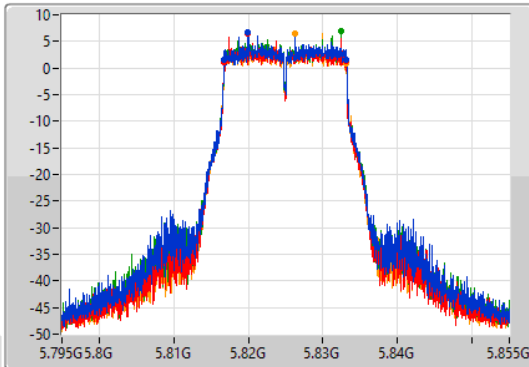
802.11a_Nss1,(6Mbps)_4TX

EBW

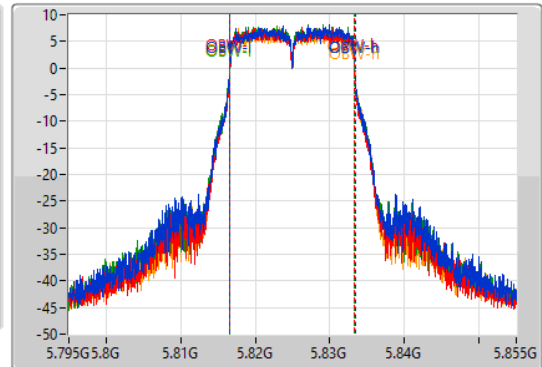
5825MHz

08/03/2021

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.81678G	5.83313G	16.792M	5.816574G	5.833366G	500k	1
16.35M	5.81678G	5.83313G	16.702M	5.816604G	5.833306G	500k	2
16.35M	5.81678G	5.83313G	16.792M	5.816544G	5.833336G	500k	3
16.35M	5.81678G	5.83313G	16.822M	5.816544G	5.833366G	500k	4

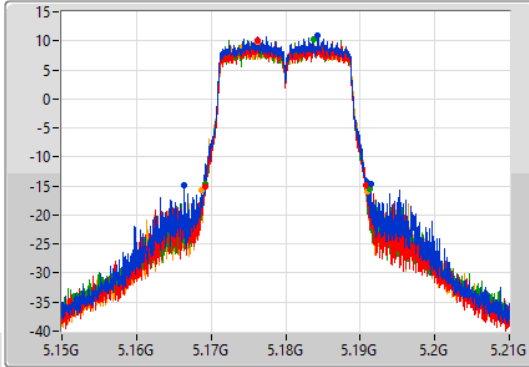
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

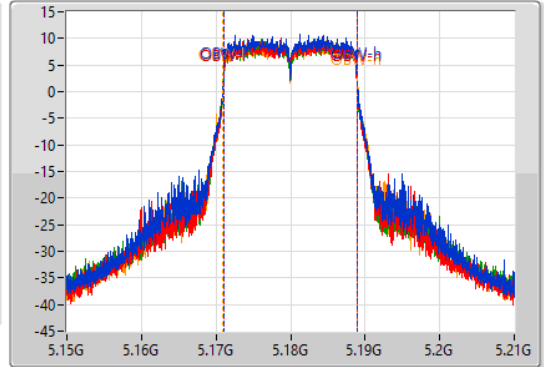
5180MHz

08/03/2021

CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.05M	5.16635G	5.1914G	17.901M	5.171004G	5.188906G	Inf	1
21.72M	5.16914G	5.19086G	17.901M	5.171004G	5.188906G	Inf	2
22.14M	5.1692G	5.19134G	17.871M	5.171034G	5.188906G	Inf	3
22.23M	5.16866G	5.19089G	17.991M	5.170975G	5.188966G	Inf	4

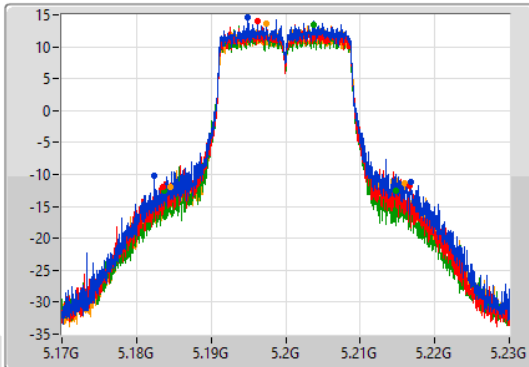
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

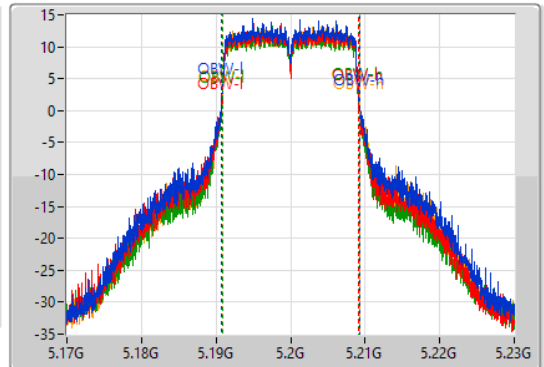
5200MHz

08/03/2021

CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.35M	5.18245G	5.2168G	18.471M	5.190765G	5.209235G	Inf	1
33M	5.18356G	5.21656G	18.321M	5.190795G	5.209115G	Inf	2
31.05M	5.18374G	5.21479G	18.141M	5.190885G	5.209025G	Inf	3
31.35M	5.18455G	5.2159G	18.351M	5.190855G	5.209205G	Inf	4

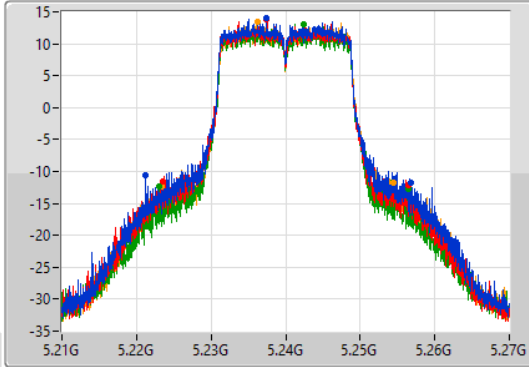
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

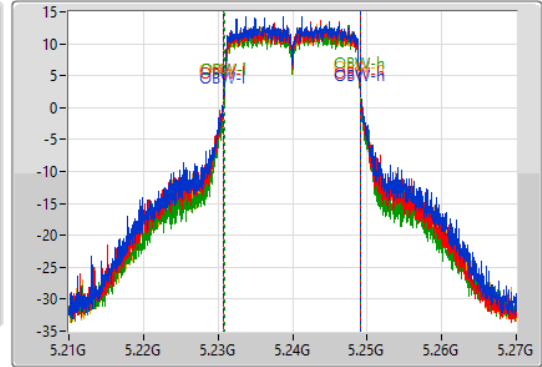
5240MHz

08/03/2021

CF
5.24GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.61M	5.22122G	5.25683G	18.411M	5.230735G	5.249145G	Inf	1
32.88M	5.22353G	5.25641G	18.321M	5.230765G	5.249085G	Inf	2
33.39M	5.22311G	5.2565G	18.111M	5.230915G	5.249025G	Inf	3
31.05M	5.22344G	5.25449G	18.321M	5.230795G	5.249115G	Inf	4

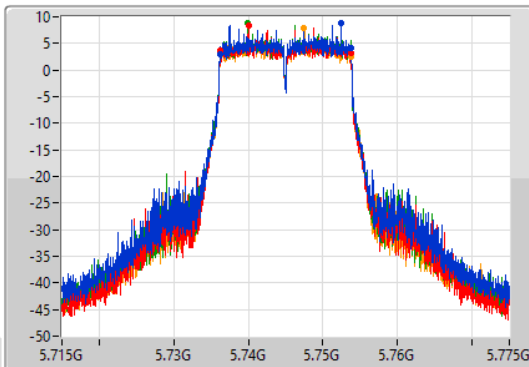
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

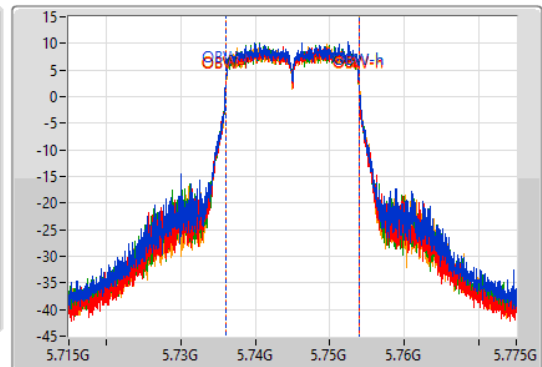
5745MHz

08/03/2021

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.73618G	5.75376G	17.901M	5.736034G	5.753936G	500k	1
17.58M	5.73618G	5.75376G	17.871M	5.736034G	5.753906G	500k	2
17.61M	5.73618G	5.75379G	17.871M	5.736034G	5.753906G	500k	3
17.58M	5.73621G	5.75379G	17.961M	5.736004G	5.753966G	500k	4

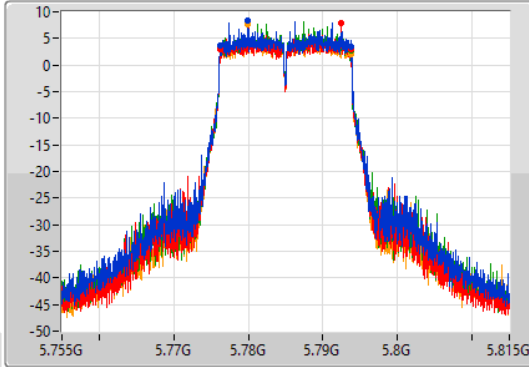
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

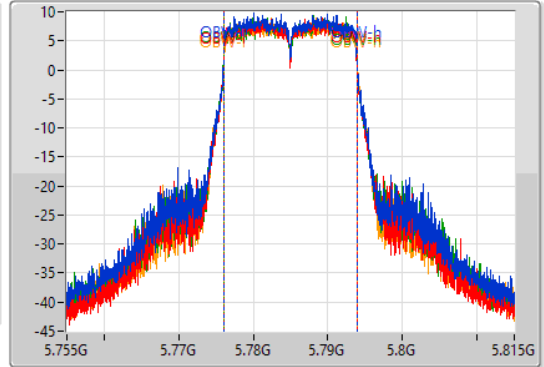
5785MHz

08/03/2021

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77618G	5.79376G	17.871M	5.776034G	5.793906G	500k	1
17.58M	5.77618G	5.79376G	17.871M	5.776034G	5.793906G	500k	2
17.58M	5.77618G	5.79376G	17.871M	5.776034G	5.793906G	500k	3
17.58M	5.77618G	5.79376G	17.961M	5.776004G	5.793966G	500k	4

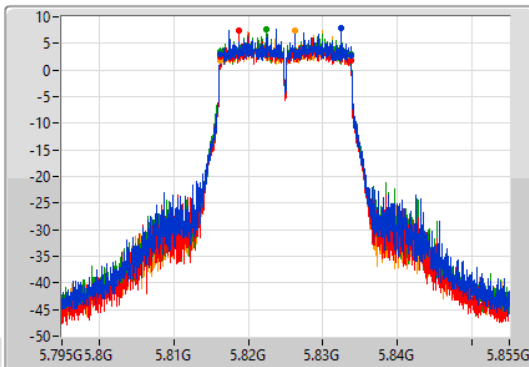
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

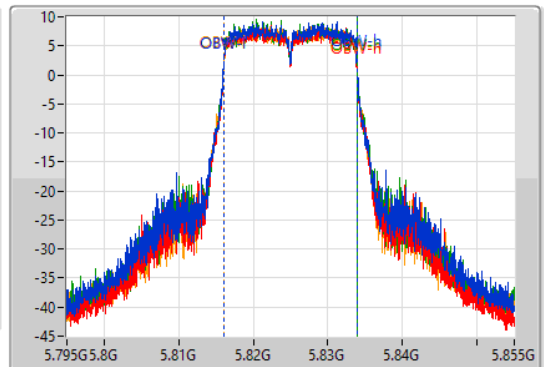
5825MHz

08/03/2021

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.81618G	5.83376G	17.871M	5.816034G	5.833906G	500k	1
17.58M	5.81618G	5.83376G	17.871M	5.816034G	5.833906G	500k	2
17.58M	5.81618G	5.83376G	17.871M	5.816034G	5.833906G	500k	3
17.58M	5.81618G	5.83376G	17.931M	5.816004G	5.833966G	500k	4

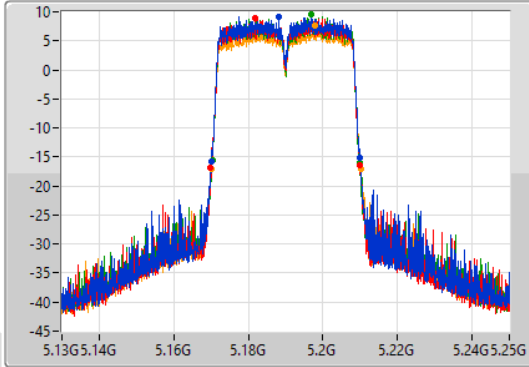
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

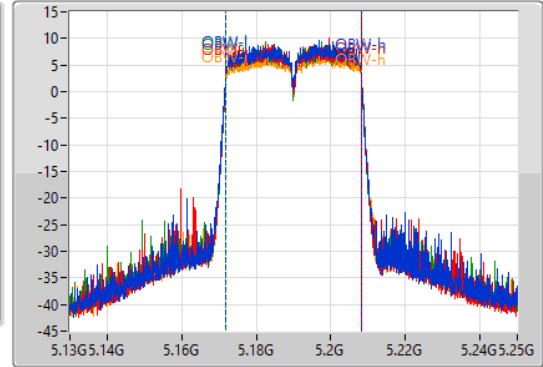
5190MHz

08/03/2021

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.78M	5.1702G	5.20998G	36.342M	5.171829G	5.208171G	Inf	1
40.14M	5.16984G	5.20998G	36.342M	5.171829G	5.208171G	Inf	2
39.54M	5.17032G	5.20986G	36.342M	5.171829G	5.208171G	Inf	3
40.2M	5.17008G	5.21028G	36.462M	5.171829G	5.208291G	Inf	4

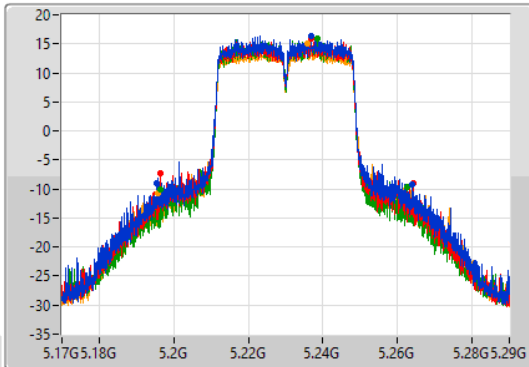
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

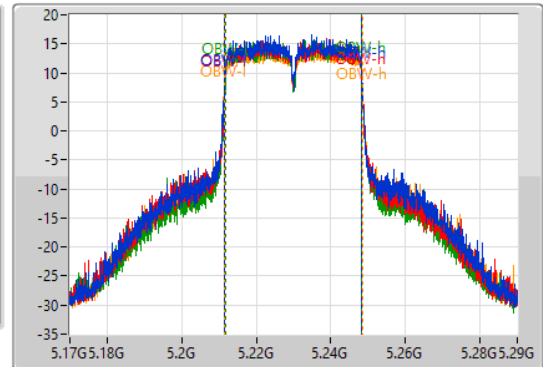
5230MHz

08/03/2021

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

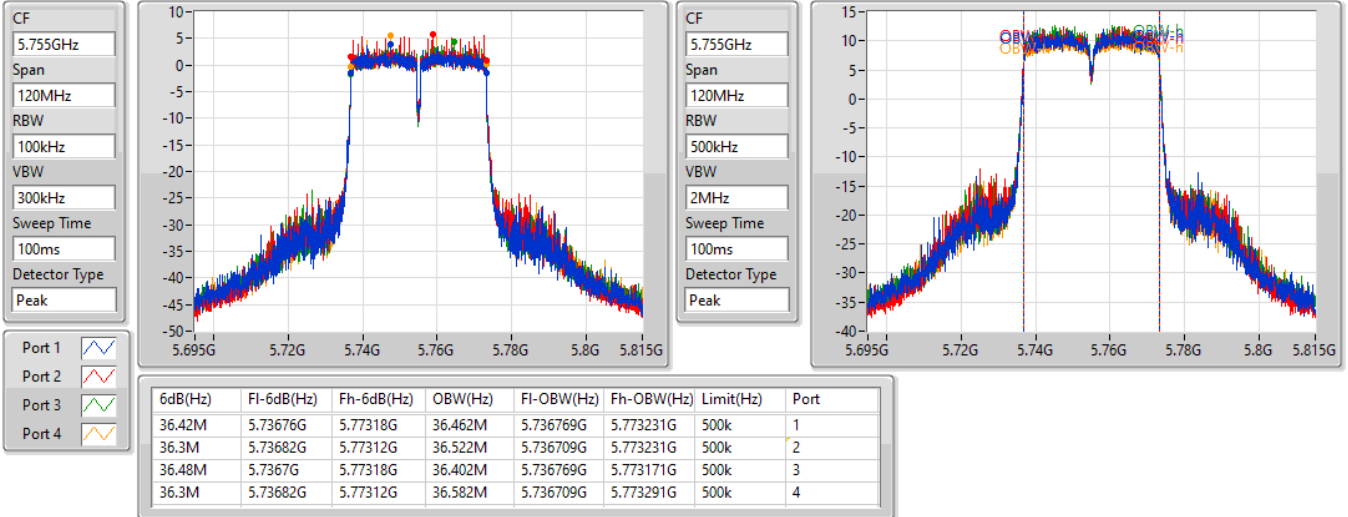
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
68.52M	5.19544G	5.26396G	36.762M	5.211589G	5.248351G	Inf	1
67.74M	5.19652G	5.26426G	36.762M	5.211589G	5.248351G	Inf	2
66.18M	5.19652G	5.2627G	36.582M	5.211709G	5.248291G	Inf	3
68.34M	5.19562G	5.26396G	37.061M	5.211469G	5.248531G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

08/03/2021

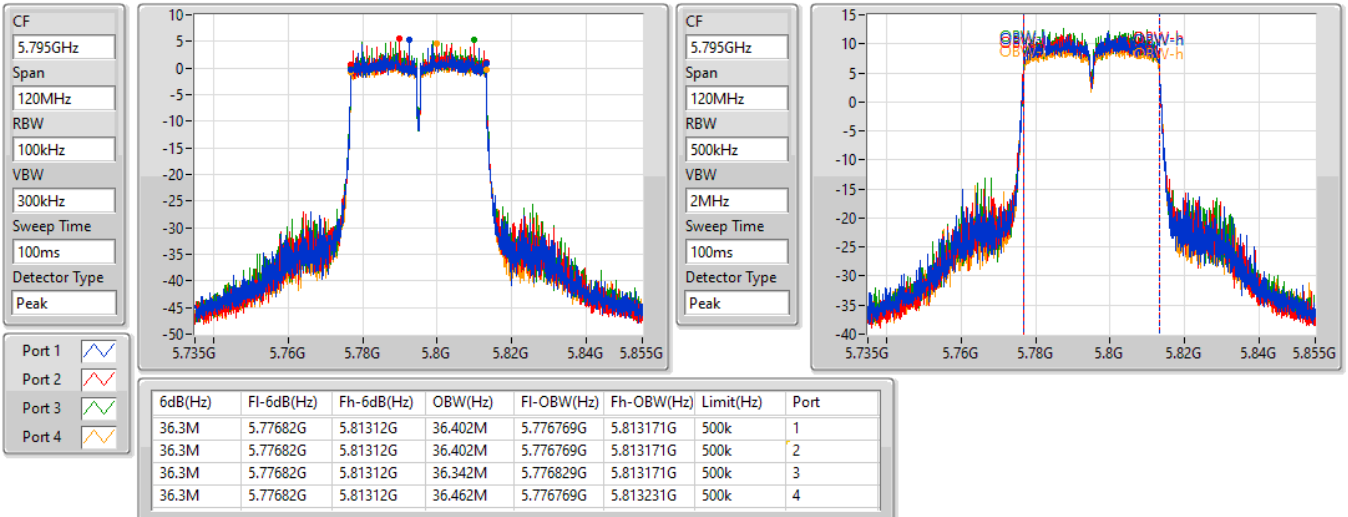


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

08/03/2021



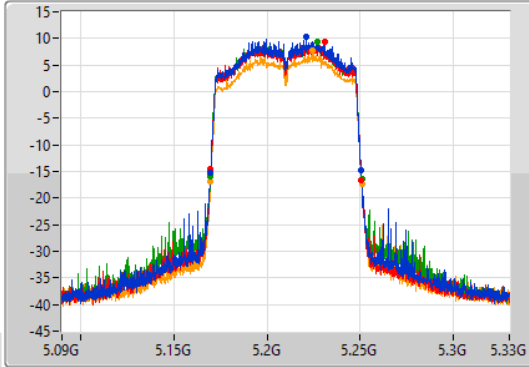
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

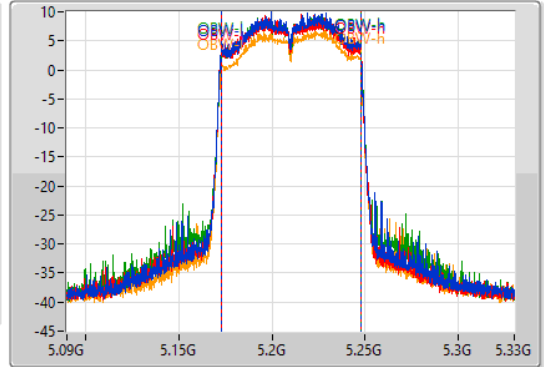
5210MHz

08/03/2021

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.76M	5.16956G	5.25032G	74.963M	5.172699G	5.247661G	Inf	1
80.88M	5.1698G	5.25068G	74.843M	5.172699G	5.247541G	Inf	2
81.48M	5.16956G	5.25104G	74.963M	5.172699G	5.247661G	Inf	3
81.24M	5.1698G	5.25104G	74.963M	5.172699G	5.247661G	Inf	4

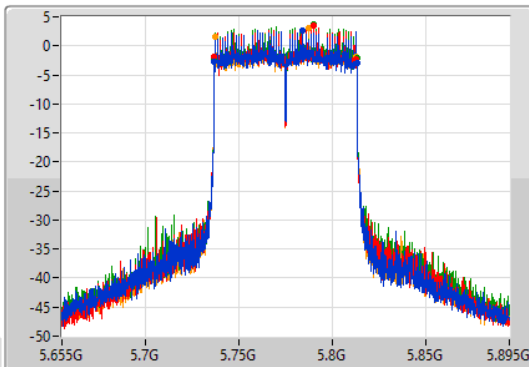
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

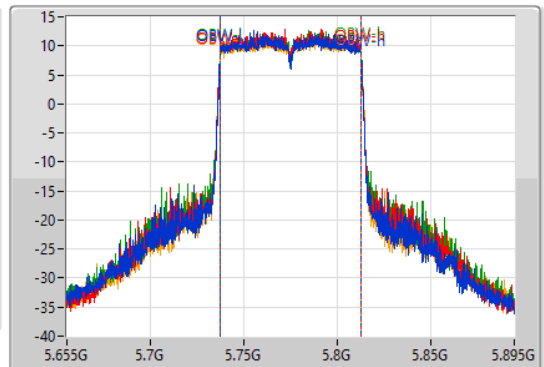
5775MHz

08/03/2021

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.32M	5.73684G	5.81316G	76.042M	5.736979G	5.813021G	500k	1
76.08M	5.73684G	5.81292G	76.042M	5.736979G	5.813021G	500k	2
76.32M	5.73684G	5.81316G	75.922M	5.737099G	5.813021G	500k	3
75.48M	5.73744G	5.81292G	76.042M	5.736979G	5.813021G	500k	4



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.90	0.97724
802.11ac VHT20_Nss1,(MCS0)_4TX	29.89	0.97499
802.11ac VHT40_Nss1,(MCS0)_4TX	29.72	0.93756
802.11ac VHT80_Nss1,(MCS0)_4TX	21.87	0.15382
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	25.26	0.33574
802.11ac VHT20_Nss1,(MCS0)_4TX	26.01	0.39902
802.11ac VHT40_Nss1,(MCS0)_4TX	26.26	0.42267
802.11ac VHT80_Nss1,(MCS0)_4TX	26.09	0.40644



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.75	23.62	22.96	23.17	22.81	29.17	30.00
5200MHz	Pass	3.75	24.47	23.74	23.48	23.76	29.90	30.00
5240MHz	Pass	3.75	24.35	23.86	23.40	23.57	29.83	30.00
5745MHz	Pass	3.94	19.49	19.14	19.39	18.90	25.26	30.00
5785MHz	Pass	3.94	19.60	19.10	19.45	18.74	25.26	30.00
5825MHz	Pass	3.94	18.29	18.13	18.37	17.67	24.14	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.75	21.20	20.36	20.27	20.27	26.56	30.00
5200MHz	Pass	3.75	24.41	23.66	23.70	23.67	29.89	30.00
5240MHz	Pass	3.75	24.25	23.71	23.46	23.47	29.76	30.00
5745MHz	Pass	3.94	20.24	19.88	20.09	19.73	26.01	30.00
5785MHz	Pass	3.94	19.84	19.24	19.60	19.31	25.52	30.00
5825MHz	Pass	3.94	19.89	19.03	19.70	19.18	25.49	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.75	17.37	16.78	16.49	16.24	22.76	30.00
5230MHz	Pass	3.75	24.12	23.75	23.30	23.57	29.72	30.00
5755MHz	Pass	3.94	20.08	20.39	20.33	20.14	26.26	30.00
5795MHz	Pass	3.94	19.45	19.41	19.59	18.96	25.38	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.75	16.34	15.90	16.11	14.92	21.87	30.00
5775MHz	Pass	3.94	19.83	20.14	20.35	19.94	26.09	30.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	16.95	22.00
802.11ac VHT20_Nss1,(MCS0)_4TX	16.77	21.82
802.11ac VHT40_Nss1,(MCS0)_4TX	13.57	18.62
802.11ac VHT80_Nss1,(MCS0)_4TX	3.73	8.78
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	11.12	16.33
802.11ac VHT20_Nss1,(MCS0)_4TX	11.31	16.52
802.11ac VHT40_Nss1,(MCS0)_4TX	8.49	13.70
802.11ac VHT80_Nss1,(MCS0)_4TX	5.59	10.80

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.05	10.44	10.01	9.95	9.97	16.05	17.00	21.10	23.00
5200MHz	Pass	5.05	11.49	10.95	10.61	10.90	16.88	17.00	21.93	23.00
5240MHz	Pass	5.05	11.39	11.15	10.54	10.81	16.95	17.00	22.00	23.00
5745MHz	Pass	5.21	5.02	4.82	5.12	4.56	10.87	30.00	16.08	36.00
5785MHz	Pass	5.21	5.54	5.04	5.36	4.79	11.12	30.00	16.33	36.00
5825MHz	Pass	5.21	-10.35	-10.96	-10.67	-11.18	-4.92	30.00	0.29	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.05	8.02	7.23	7.36	7.18	13.38	17.00	18.43	23.00
5200MHz	Pass	5.05	11.45	10.76	10.46	10.63	16.77	17.00	21.82	23.00
5240MHz	Pass	5.05	11.06	10.52	10.21	10.36	16.46	17.00	21.51	23.00
5745MHz	Pass	5.21	5.86	5.24	5.41	5.11	11.31	30.00	16.52	36.00
5785MHz	Pass	5.21	5.36	4.71	5.06	4.72	10.90	30.00	16.11	36.00
5825MHz	Pass	5.21	5.44	4.51	5.12	4.57	10.84	30.00	16.05	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.05	1.21	0.62	0.62	0.24	6.58	17.00	11.63	23.00
5230MHz	Pass	5.05	7.96	7.64	7.42	7.59	13.57	17.00	18.62	23.00
5755MHz	Pass	5.21	2.49	2.77	2.69	2.42	8.49	30.00	13.70	36.00
5795MHz	Pass	5.21	2.06	2.32	2.15	1.69	7.92	30.00	13.13	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.05	-1.49	-1.97	-1.99	-3.38	3.73	17.00	8.78	23.00
5775MHz	Pass	5.21	-0.30	-0.21	0.03	-0.56	5.59	30.00	10.80	36.00

DG = Directional Gain; **RBW** = 500 kHz 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 X power density;

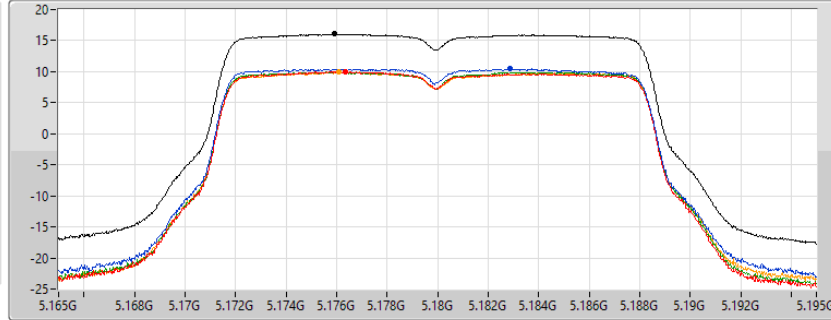
802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

08/03/2021

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.05	16.05	10.44	10.01	9.95	9.97

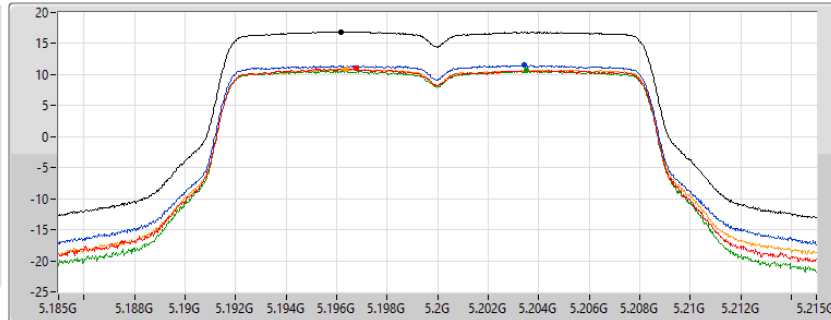
802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

08/03/2021

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.88	16.88	11.49	10.95	10.61	10.90

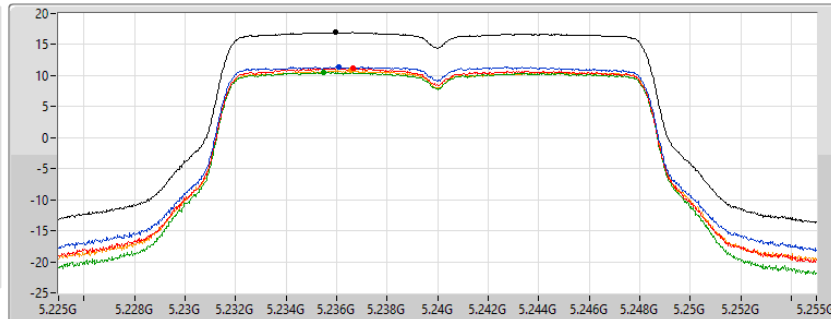
802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

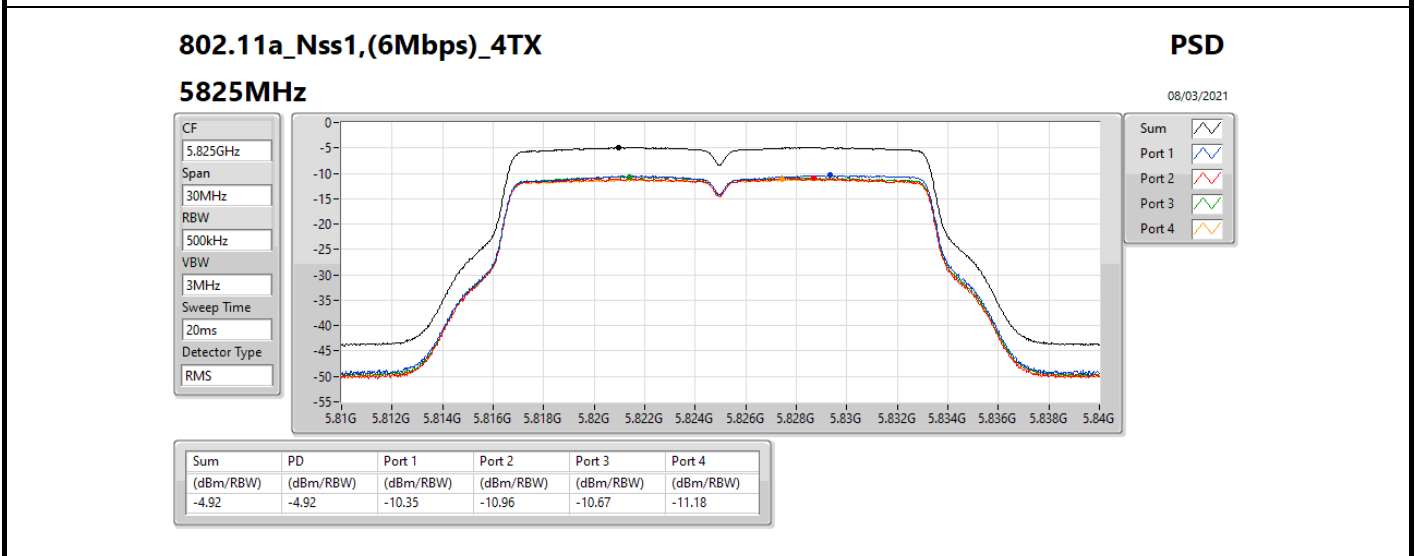
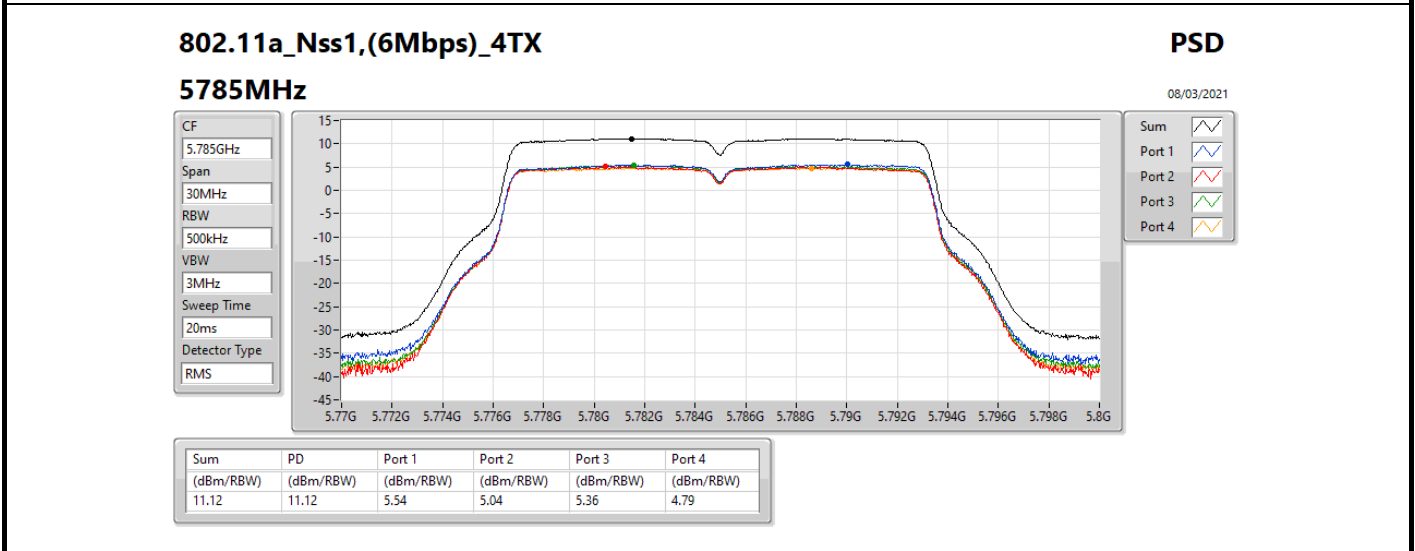
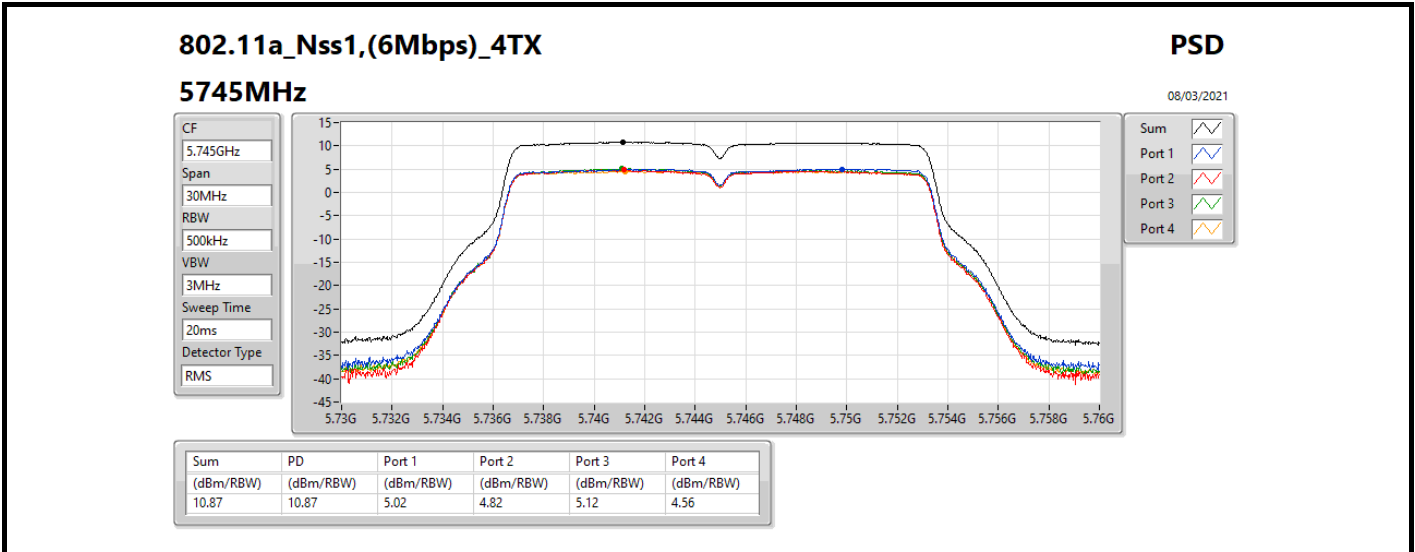
08/03/2021

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.95	16.95	11.39	11.15	10.54	10.81



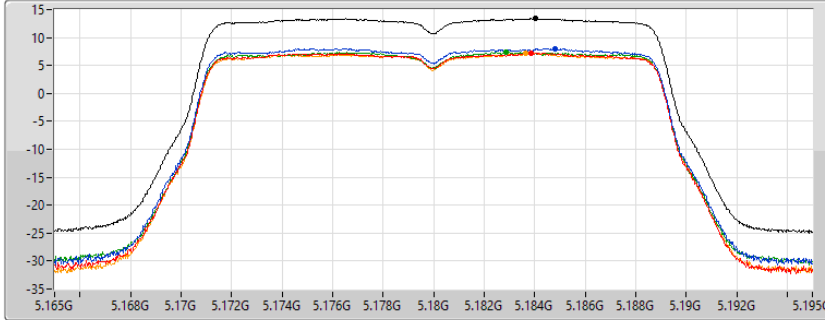
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5180MHz

08/03/2021

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.38	13.38	8.02	7.23	7.36	7.18

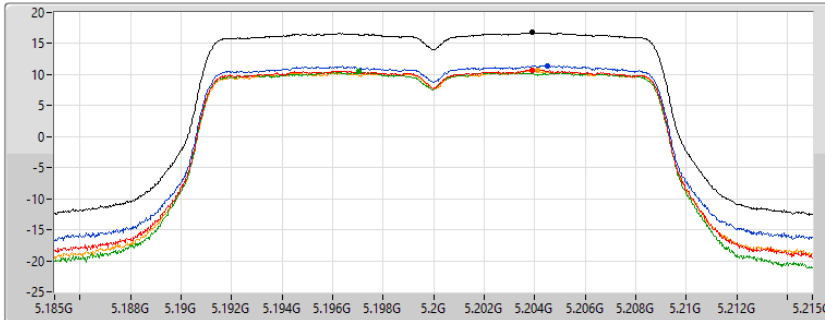
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

08/03/2021

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.77	16.77	11.45	10.76	10.46	10.63

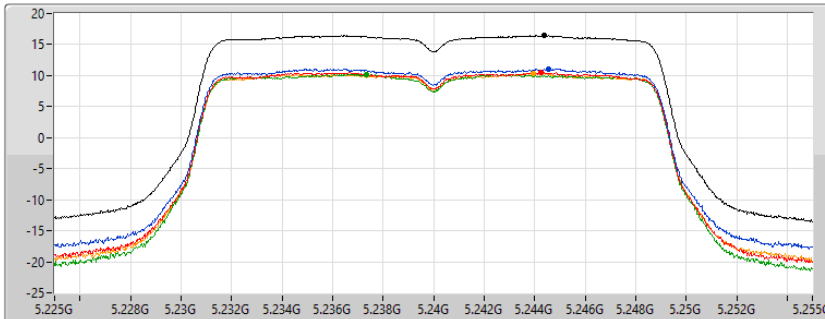
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5240MHz

08/03/2021

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.46	16.46	11.06	10.52	10.21	10.36

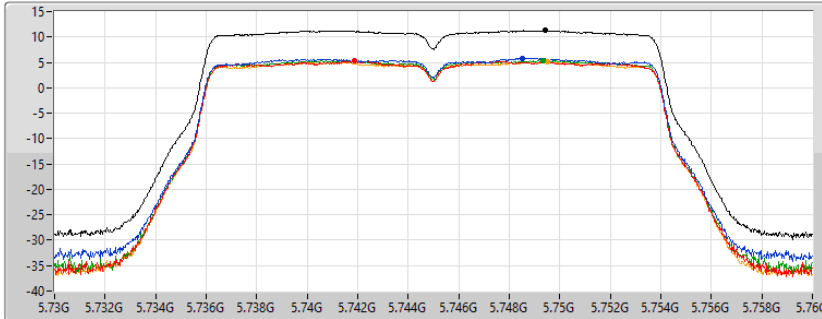
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5745MHz

08/03/2021

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.31	11.31	5.86	5.24	5.41	5.11

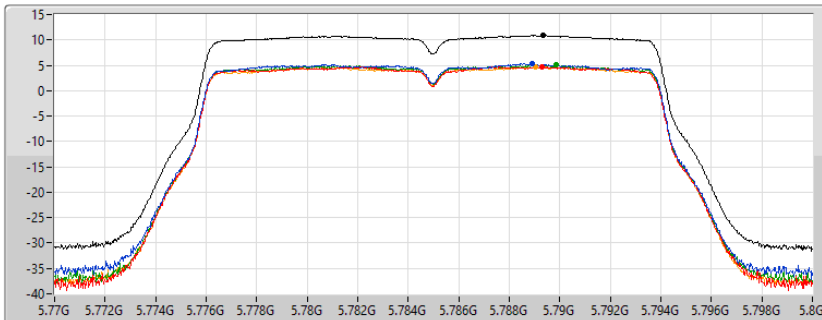
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5785MHz

08/03/2021

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.90	10.90	5.36	4.71	5.06	4.72

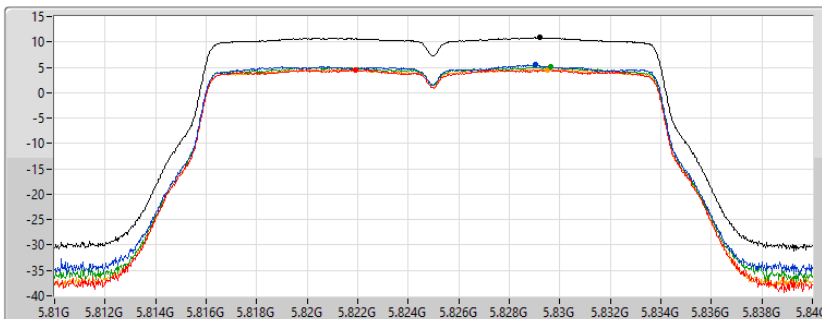
802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5825MHz

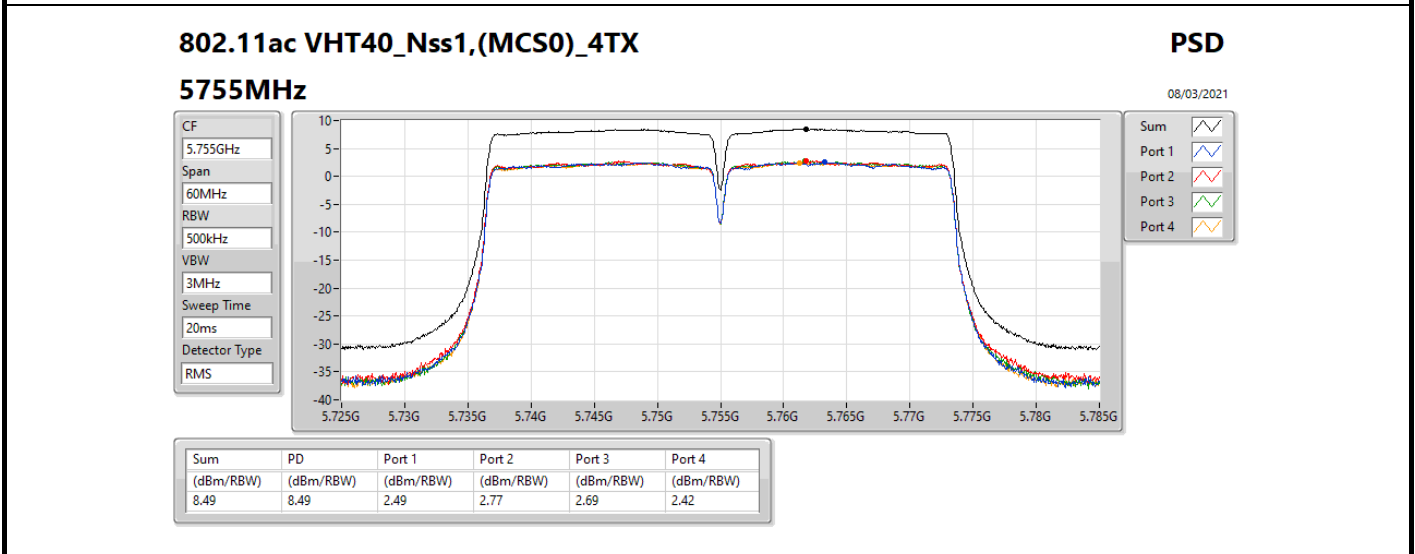
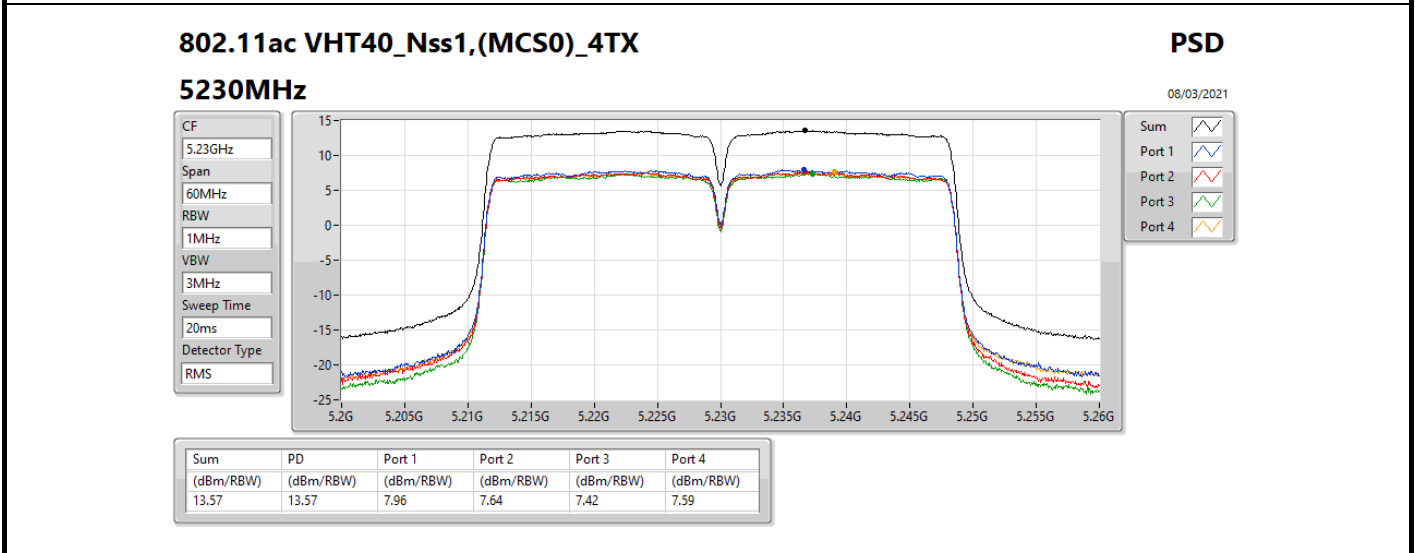
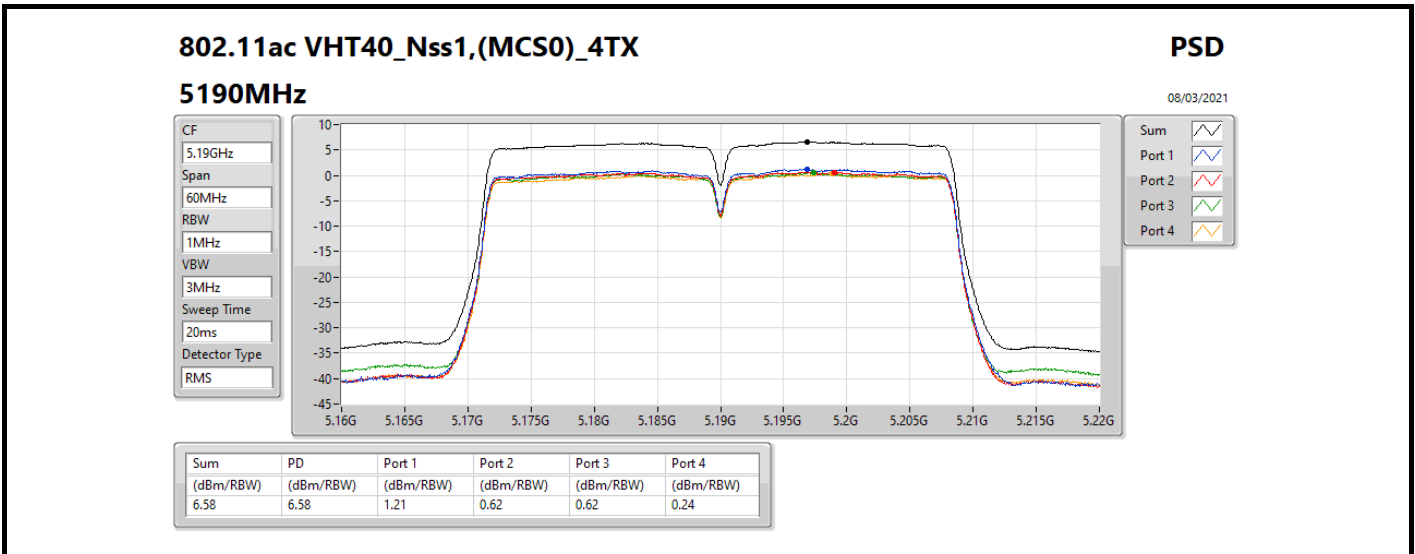
08/03/2021

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.84	10.84	5.44	4.51	5.12	4.57



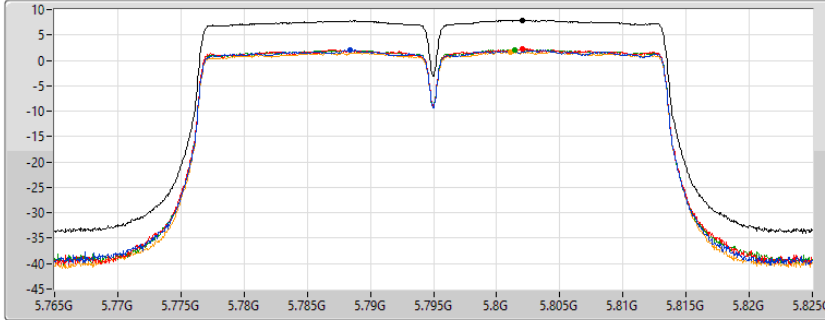
802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5795MHz

08/03/2021

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.92	7.92	2.06	2.32	2.15	1.69

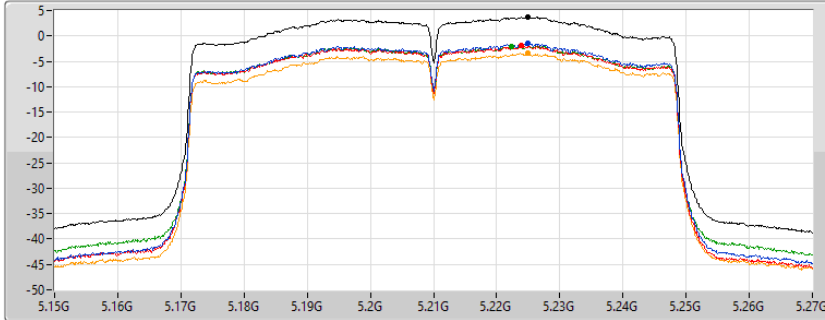
802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

08/03/2021

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.73	3.73	-1.49	-1.97	-1.99	-3.38

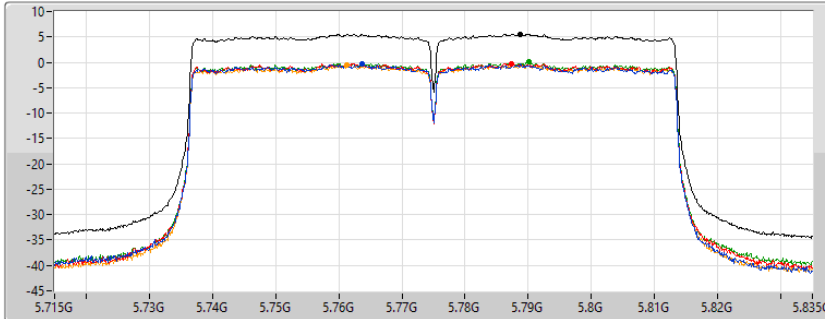
802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5775MHz

08/03/2021

CF
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

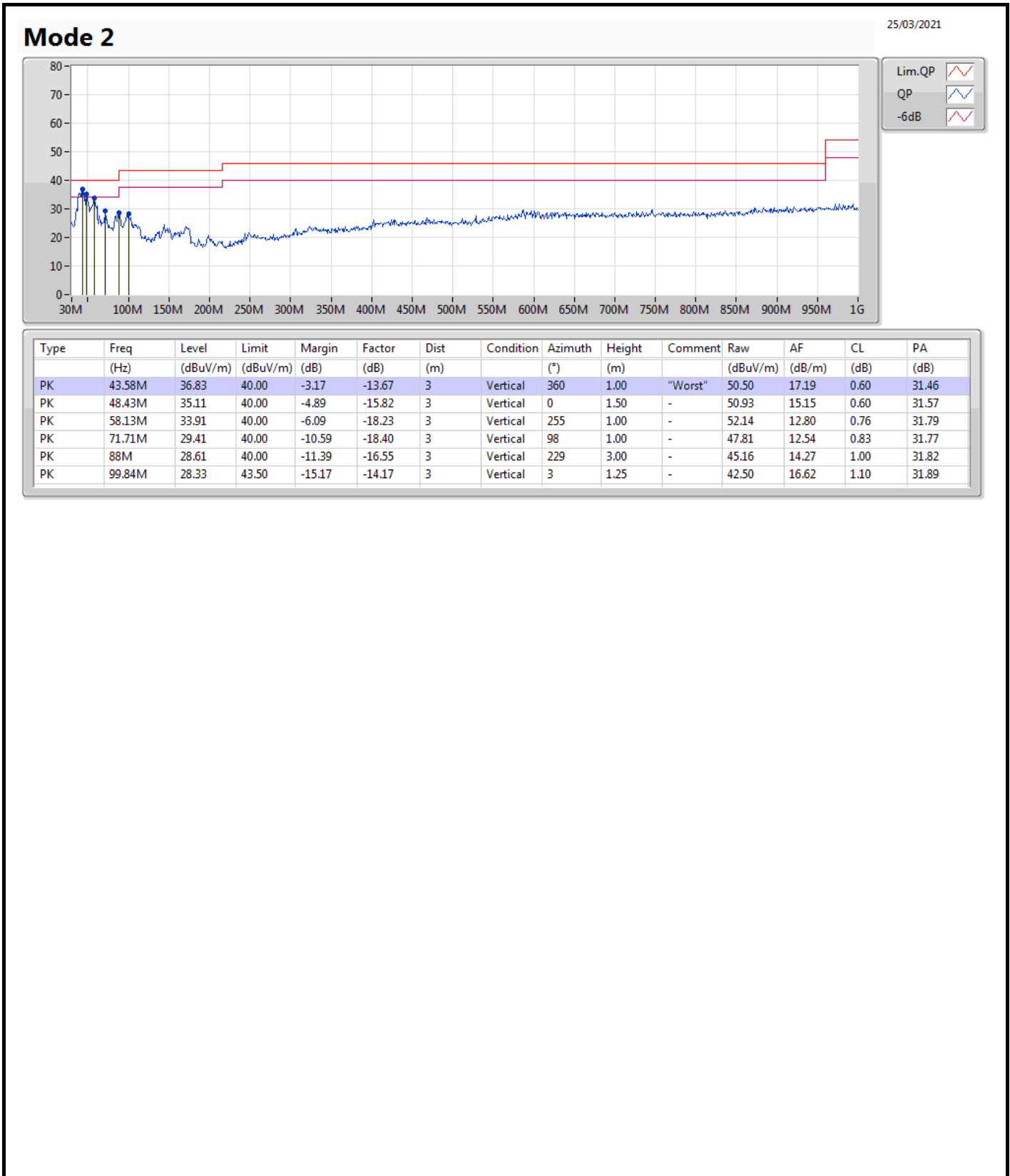


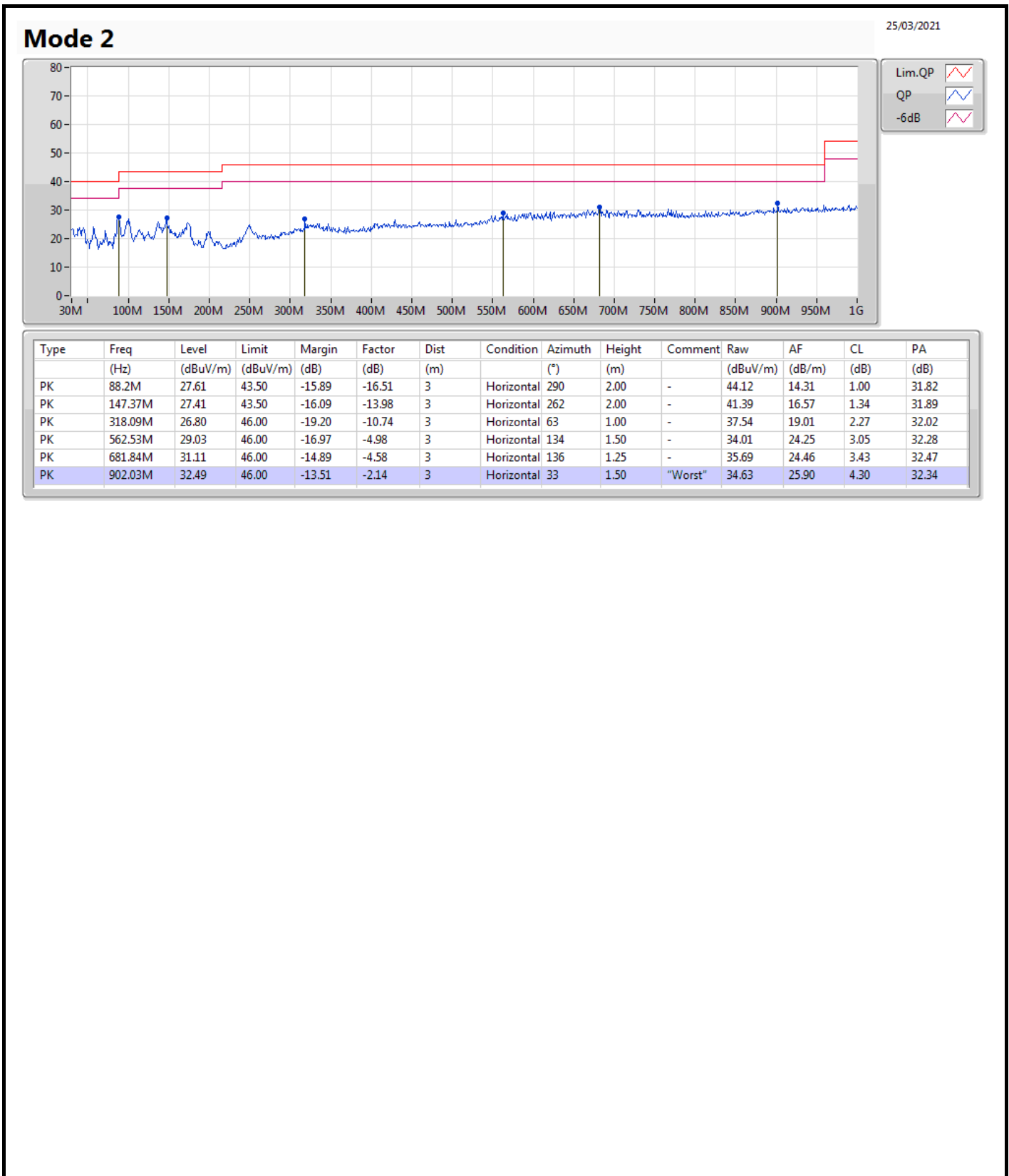
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.59	5.59	-0.30	-0.21	0.03	-0.56



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	43.58M	36.83	40.00	-3.17	Vertical







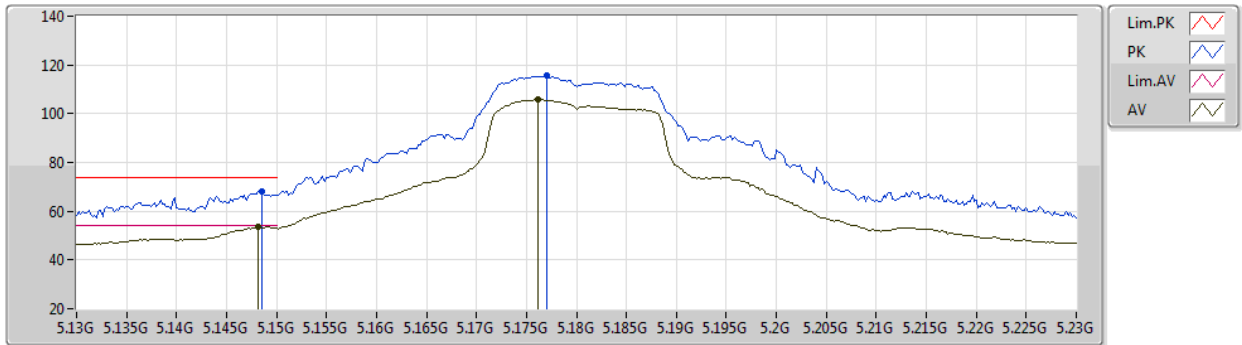
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	15.60042G	53.99	54.00	-0.01	3	Horizontal	310	2.73	-

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5180MHz_TX



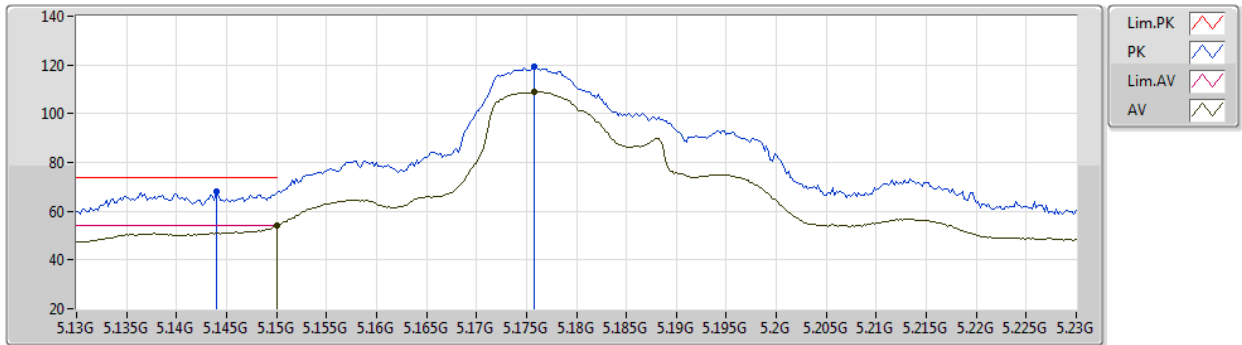
EUT Y_4TX
Setting 97
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1486G	68.05	74.00	-5.95	64.73	3	Vertical	263	1.83	-	32.60	5.17	34.45
AV	5.1482G	53.50	54.00	-0.50	50.18	3	Vertical	263	1.83	-	32.60	5.17	34.45
PK	5.177G	115.53	Inf	-Inf	112.14	3	Vertical	263	1.83	-	32.65	5.19	34.45
AV	5.1762G	105.87	Inf	-Inf	102.48	3	Vertical	263	1.83	-	32.65	5.19	34.45

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5180MHz_TX



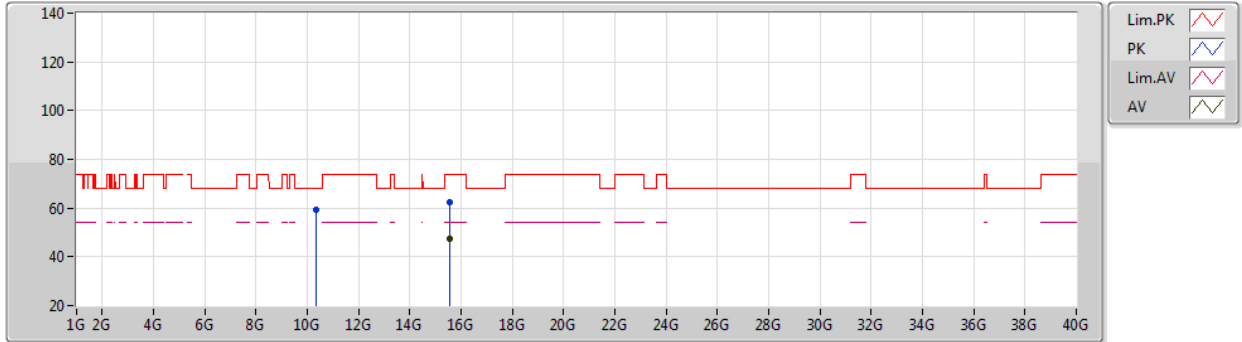
EUT Y_4TX
Setting 97
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.144G	67.93	74.00	-6.07	64.61	3	Horizontal	139	1.58	-	32.60	5.17	34.45
AV	5.15G	53.91	54.00	-0.09	50.59	3	Horizontal	139	1.58	-	32.60	5.17	34.45
PK	5.1758G	119.24	Inf	-Inf	115.85	3	Horizontal	139	1.58	-	32.65	5.19	34.45
AV	5.1758G	108.92	Inf	-Inf	105.53	3	Horizontal	139	1.58	-	32.65	5.19	34.45

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5180MHz_TX



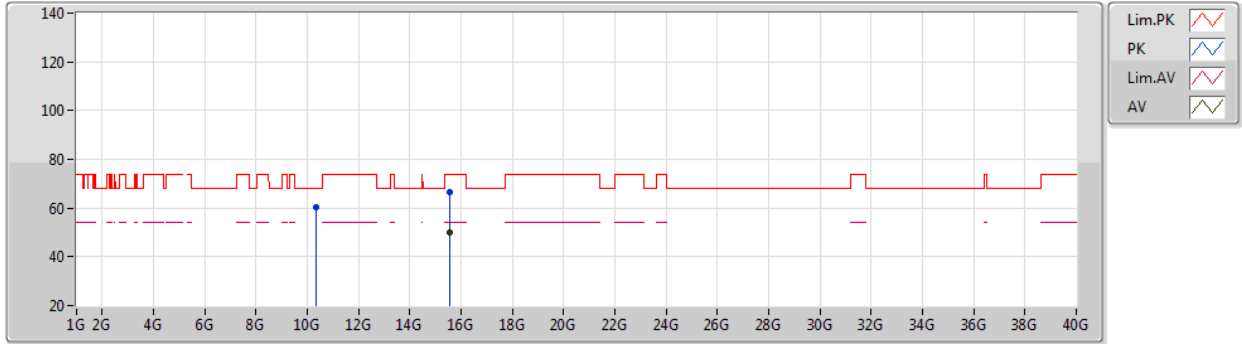
EUT Y_4TX
Setting 97
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.35886G	59.27	68.20	-8.93	48.64	3	Vertical	280	2.67	-	38.16	7.43	34.96
PK	15.53416G	62.49	74.00	-11.51	49.47	3	Vertical	313	1.63	-	38.17	9.21	34.36
AV	15.53436G	47.42	54.00	-6.58	34.40	3	Vertical	313	1.63	-	38.17	9.21	34.36

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5180MHz_TX



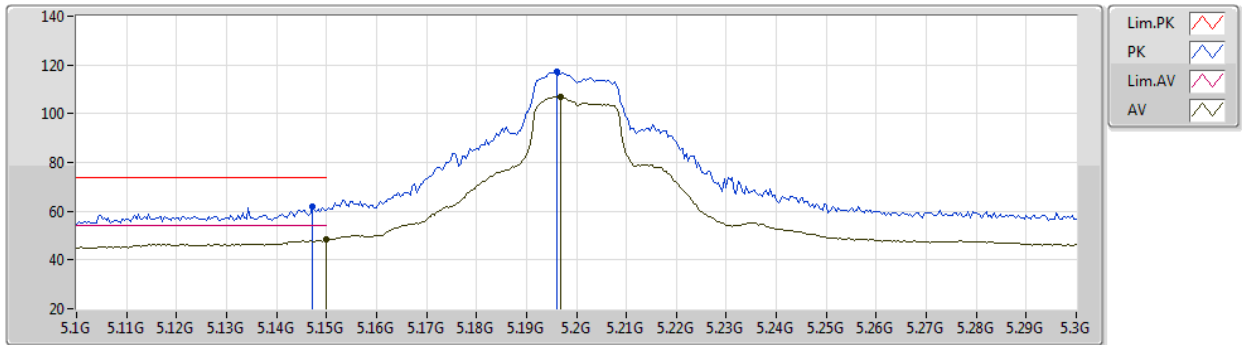
EUT Y_4TX
Setting 97
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36282G	60.31	68.20	-7.89	49.67	3	Horizontal	265	2.03	-	38.16	7.43	34.95
PK	15.54528G	66.39	74.00	-7.61	53.37	3	Horizontal	332	1.64	-	38.19	9.21	34.38
AV	15.54432G	50.06	54.00	-3.94	37.03	3	Horizontal	332	1.64	-	38.19	9.21	34.37

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5200MHz_TX



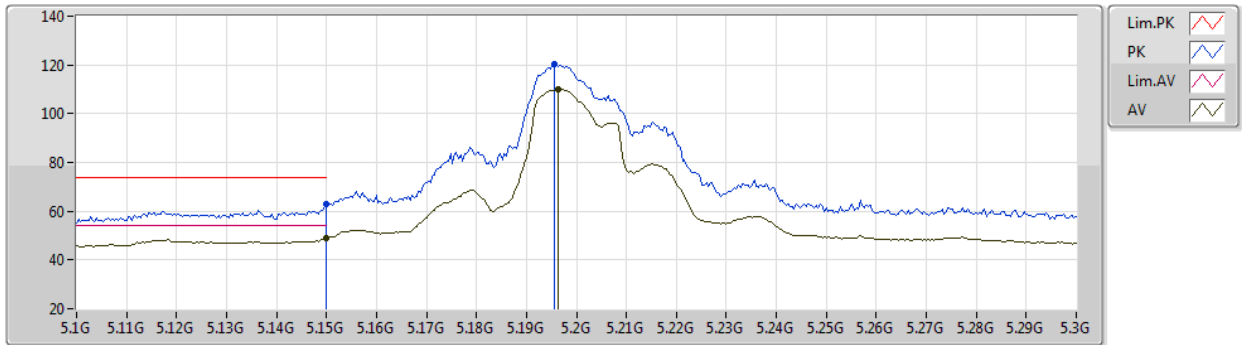
EUT Y_4TX
Setting 102
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1472G	61.90	74.00	-12.10	58.58	3	Vertical	264	1.80	-	32.60	5.17	34.45
AV	5.15G	48.26	54.00	-5.74	44.94	3	Vertical	264	1.80	-	32.60	5.17	34.45
PK	5.196G	117.06	Inf	-Inf	113.62	3	Vertical	264	1.80	-	32.69	5.20	34.45
AV	5.1968G	106.80	Inf	-Inf	103.36	3	Vertical	264	1.80	-	32.69	5.20	34.45

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5200MHz_TX



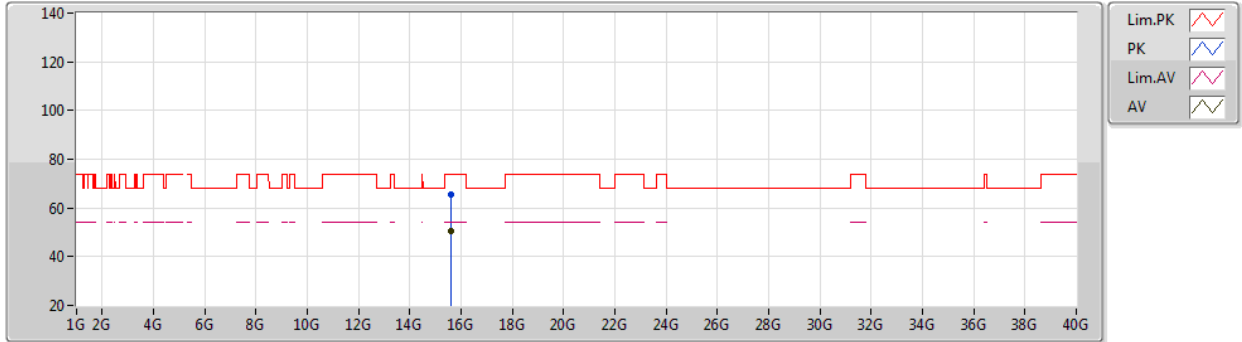
EUT Y_4TX
Setting 102
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	62.88	74.00	-11.12	59.56	3	Horizontal	137	1.61	-	32.60	5.17	34.45
AV	5.15G	48.85	54.00	-5.15	45.53	3	Horizontal	137	1.61	-	32.60	5.17	34.45
PK	5.1956G	120.32	Inf	-Inf	116.88	3	Horizontal	137	1.61	-	32.69	5.20	34.45
AV	5.1964G	110.14	Inf	-Inf	106.70	3	Horizontal	137	1.61	-	32.69	5.20	34.45

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5200MHz_TX



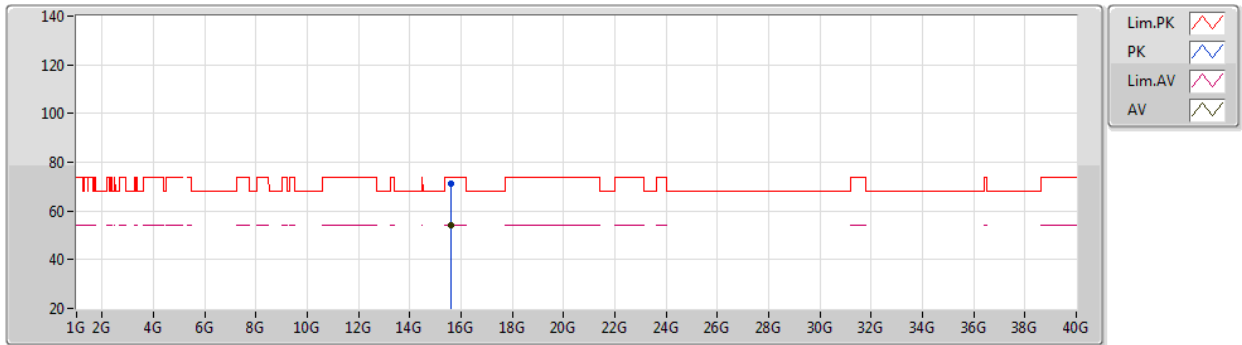
EUT V_4TX
Setting 102
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.5937G	65.40	74.00	-8.60	52.31	3	Vertical	311	1.36	-	38.29	9.22	34.42
AV	15.59292G	50.62	54.00	-3.38	37.53	3	Vertical	311	1.36	-	38.29	9.22	34.42

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5200MHz_TX



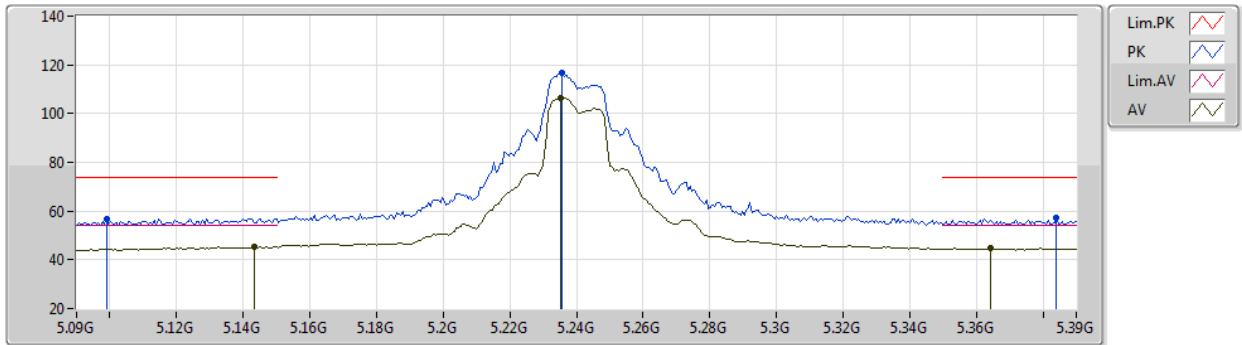
EUT Y_4TX
Setting 102
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.60132G	71.19	74.00	-2.81	58.10	3	Horizontal	310	2.73	-	38.30	9.22	34.43
AV	15.60042G	53.99	54.00	-0.01	40.90	3	Horizontal	310	2.73	-	38.30	9.22	34.43

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5240MHz_TX



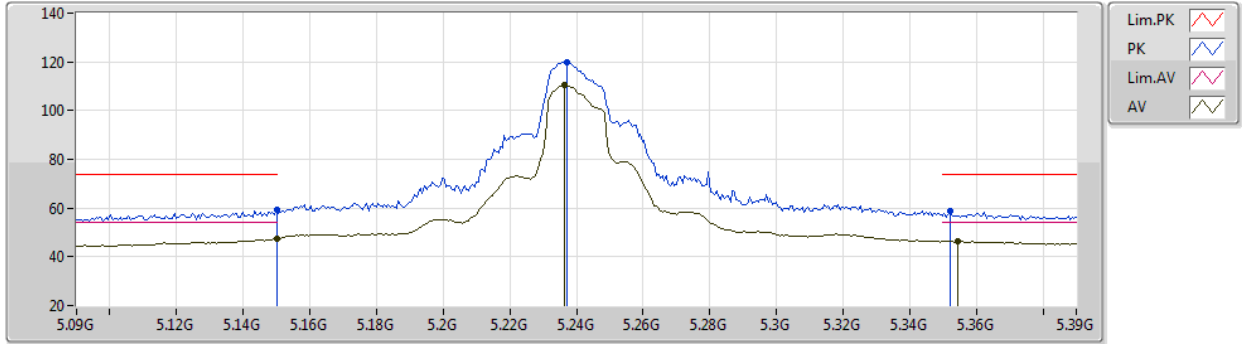
EUT Y_4TX
Setting 102
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.099G	56.93	74.00	-17.07	53.64	3	Vertical	261	3.00	-	32.60	5.15	34.46
AV	5.1434G	45.46	54.00	-8.54	42.14	3	Vertical	261	3.00	-	32.60	5.17	34.45
PK	5.2358G	116.71	Inf	-Inf	113.14	3	Vertical	261	3.00	-	32.77	5.24	34.44
AV	5.2352G	106.46	Inf	-Inf	102.89	3	Vertical	261	3.00	-	32.77	5.24	34.44
PK	5.384G	57.12	74.00	-16.88	53.06	3	Vertical	261	3.00	-	33.10	5.38	34.42
AV	5.3642G	44.73	54.00	-9.27	40.81	3	Vertical	261	3.00	-	32.99	5.36	34.43

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5240MHz_TX



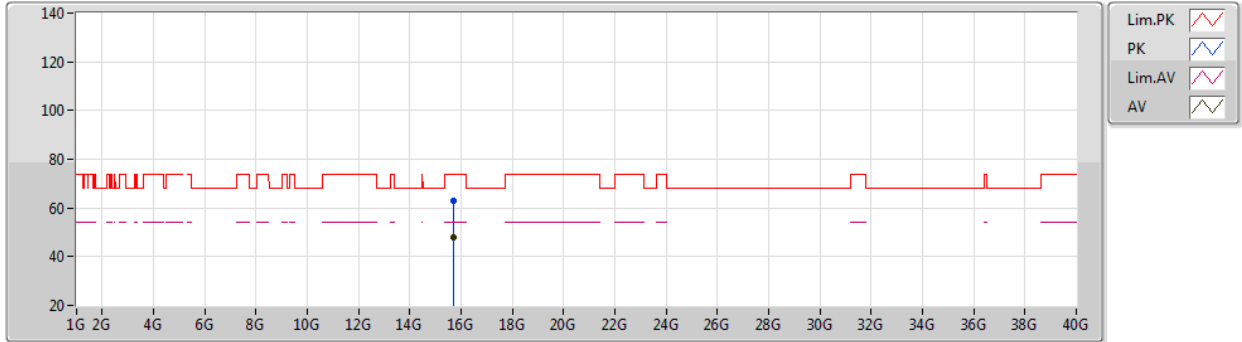
EUT Y_4TX
Setting 102
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	59.35	74.00	-14.65	56.03	3	Horizontal	97	1.99	-	32.60	5.17	34.45
AV	5.15G	47.34	54.00	-6.66	44.02	3	Horizontal	97	1.99	-	32.60	5.17	34.45
PK	5.237G	120.06	Inf	-Inf	116.49	3	Horizontal	97	1.99	-	32.77	5.24	34.44
AV	5.2364G	110.48	Inf	-Inf	106.91	3	Horizontal	97	1.99	-	32.77	5.24	34.44
PK	5.3522G	58.68	74.00	-15.32	54.85	3	Horizontal	97	1.99	-	32.91	5.35	34.43
AV	5.3546G	46.27	54.00	-7.73	42.42	3	Horizontal	97	1.99	-	32.93	5.35	34.43

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5240MHz_TX



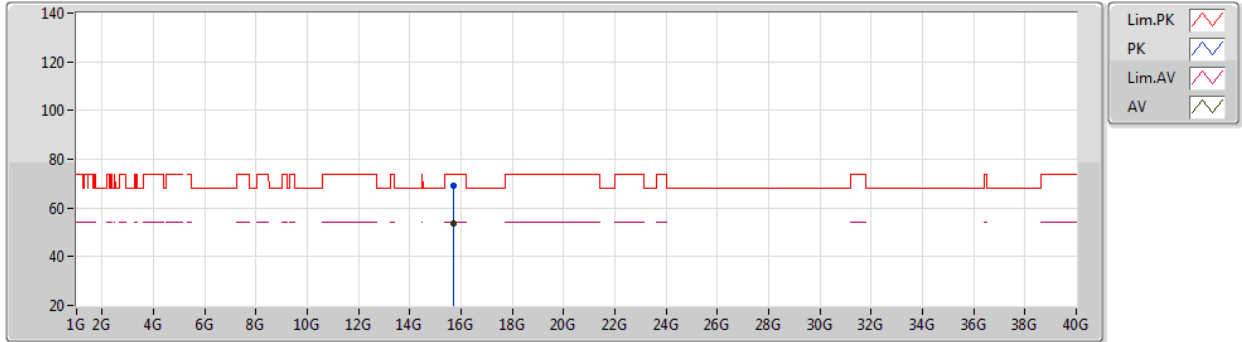
EUT Y_4TX
Setting 102
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.71748G	62.93	74.00	-11.07	49.84	3	Vertical	316	1.66	-	38.40	9.24	34.55
AV	15.71754G	47.84	54.00	-6.16	34.75	3	Vertical	316	1.66	-	38.40	9.24	34.55

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5240MHz_TX



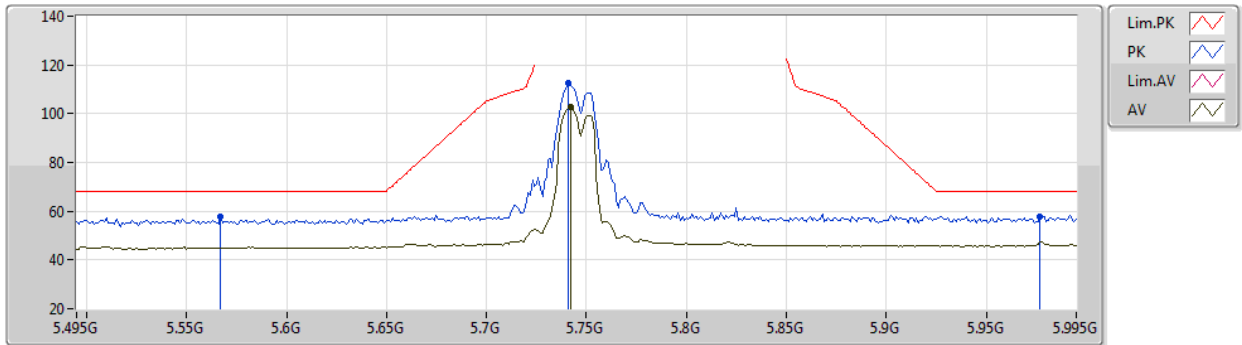
EUT Y_4TX
Setting 102
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.72162G	69.33	74.00	-4.67	56.24	3	Horizontal	309	2.72	-	38.40	9.24	34.55
AV	15.71988G	53.68	54.00	-0.32	40.59	3	Horizontal	309	2.72	-	38.40	9.24	34.55

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5745MHz_TX



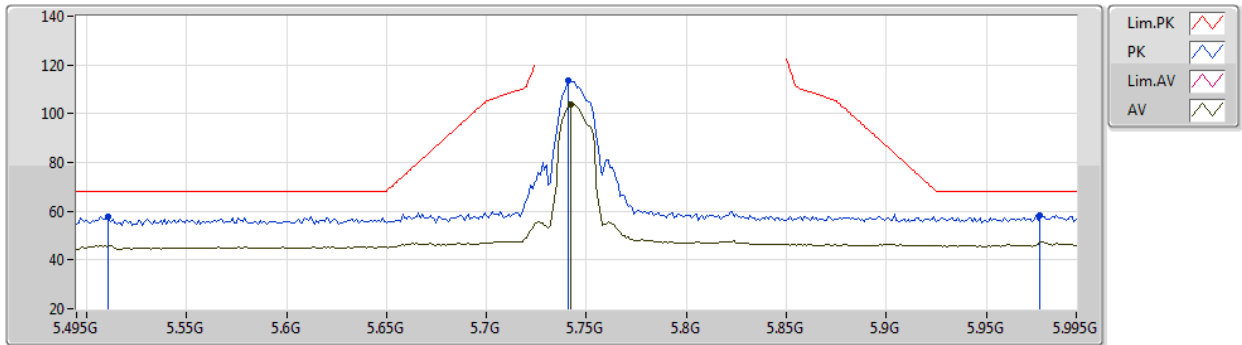
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.567G	57.63	68.20	-10.57	52.93	3	Vertical	117	1.37	-	33.73	5.40	34.43
PK	5.741G	112.83	Inf	-Inf	107.79	3	Vertical	117	1.37	-	34.06	5.47	34.49
AV	5.742G	102.66	Inf	-Inf	97.61	3	Vertical	117	1.37	-	34.07	5.47	34.49
PK	5.977G	57.79	68.20	-10.41	51.75	3	Vertical	117	1.37	-	35.11	5.50	34.57

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5745MHz_TX



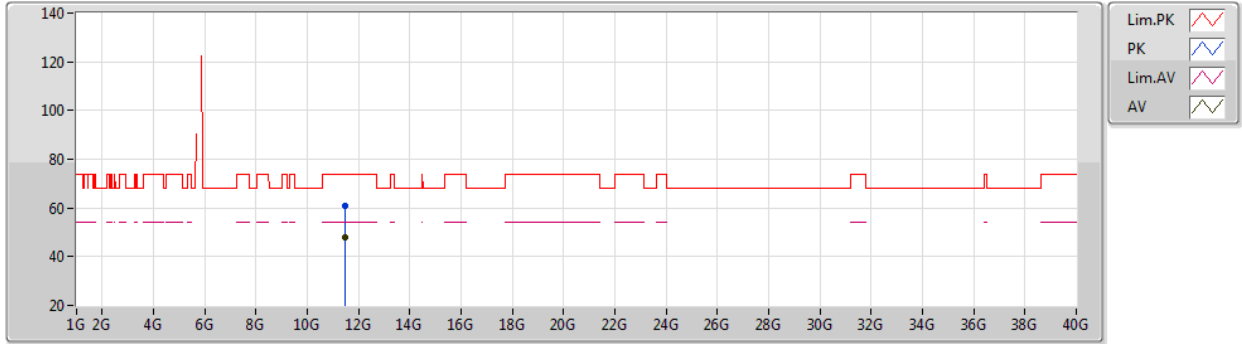
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.511G	57.83	68.20	-10.37	53.30	3	Horizontal	98	2.49	-	33.54	5.40	34.41
PK	5.741G	113.38	Inf	-Inf	108.34	3	Horizontal	98	2.49	-	34.06	5.47	34.49
AV	5.742G	103.96	Inf	-Inf	98.91	3	Horizontal	98	2.49	-	34.07	5.47	34.49
PK	5.977G	58.36	68.20	-9.84	52.32	3	Horizontal	98	2.49	-	35.11	5.50	34.57

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5745MHz_TX



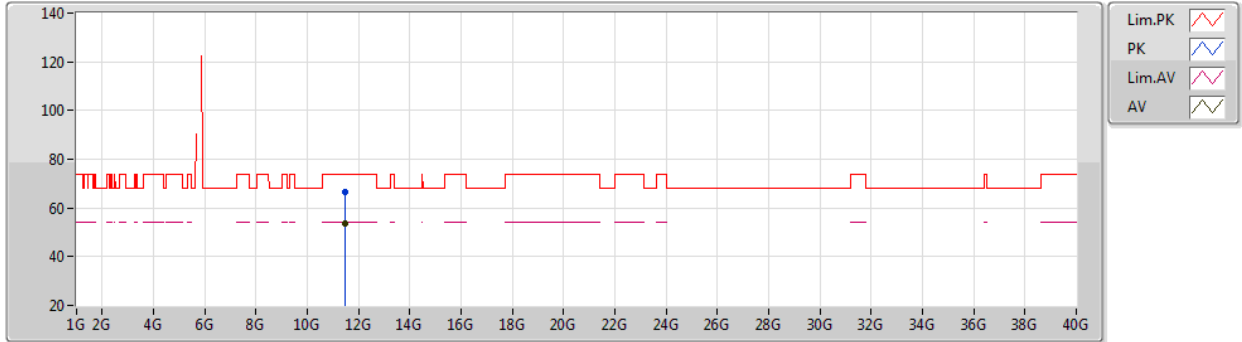
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48388G	61.02	74.00	-12.98	49.27	3	Vertical	106	1.44	-	38.40	7.82	34.47
AV	11.4862G	47.80	54.00	-6.20	36.05	3	Vertical	106	1.44	-	38.40	7.82	34.47

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5745MHz_TX



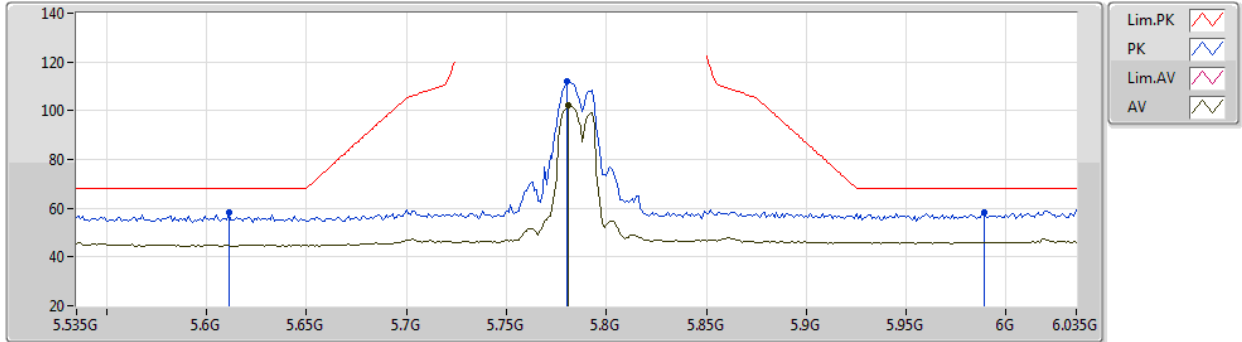
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.4885G	66.40	74.00	-7.60	54.65	3	Horizontal	270	1.27	-	38.40	7.82	34.47
AV	11.48628G	53.77	54.00	-0.23	42.02	3	Horizontal	270	1.27	-	38.40	7.82	34.47

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5785MHz_TX



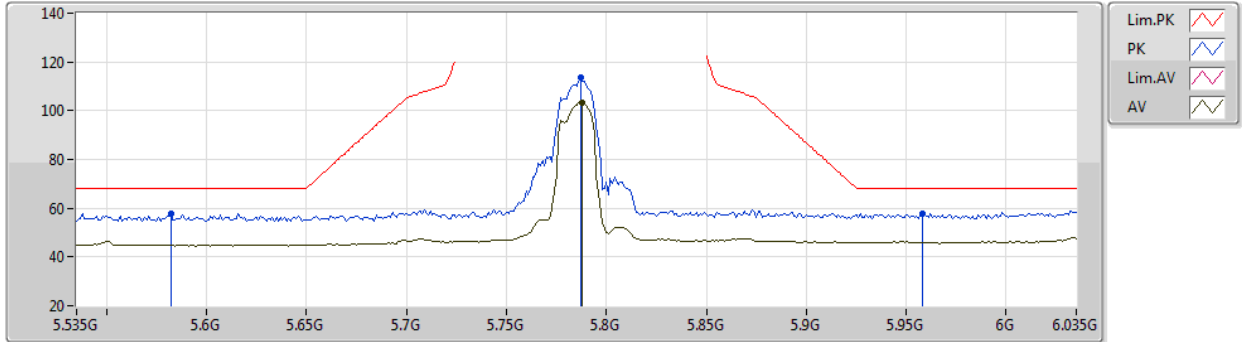
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.611G	58.32	68.20	-9.88	53.54	3	Vertical	116	1.43	-	33.82	5.41	34.45
PK	5.78G	112.15	Inf	-Inf	106.95	3	Vertical	116	1.43	-	34.22	5.49	34.51
AV	5.781G	102.19	Inf	-Inf	96.99	3	Vertical	116	1.43	-	34.22	5.49	34.51
PK	5.989G	58.18	68.20	-10.02	52.10	3	Vertical	116	1.43	-	35.16	5.50	34.58

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5785MHz_TX



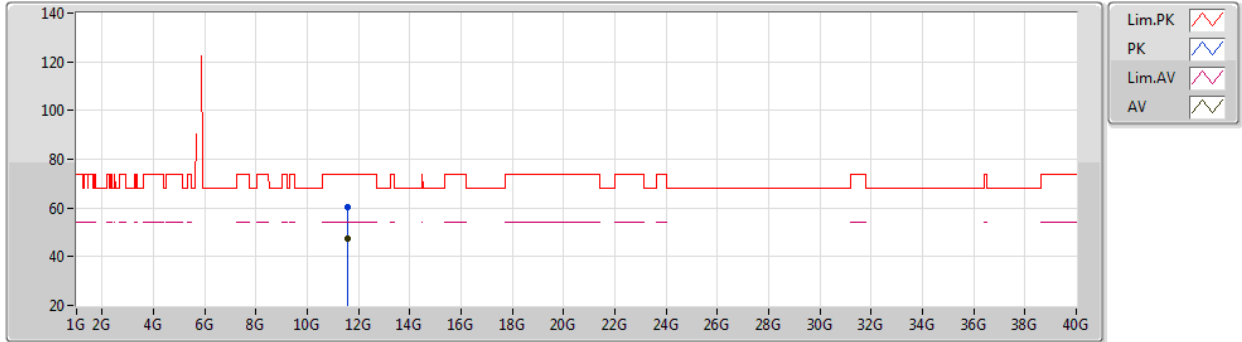
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.582G	57.76	68.20	-10.44	53.04	3	Horizontal	102	1.78	-	33.76	5.40	34.44
PK	5.787G	113.62	Inf	-Inf	108.39	3	Horizontal	102	1.78	-	34.25	5.49	34.51
AV	5.788G	103.45	Inf	-Inf	98.22	3	Horizontal	102	1.78	-	34.25	5.49	34.51
PK	5.958G	57.64	68.20	-10.56	51.68	3	Horizontal	102	1.78	-	35.03	5.50	34.57

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5785MHz_TX



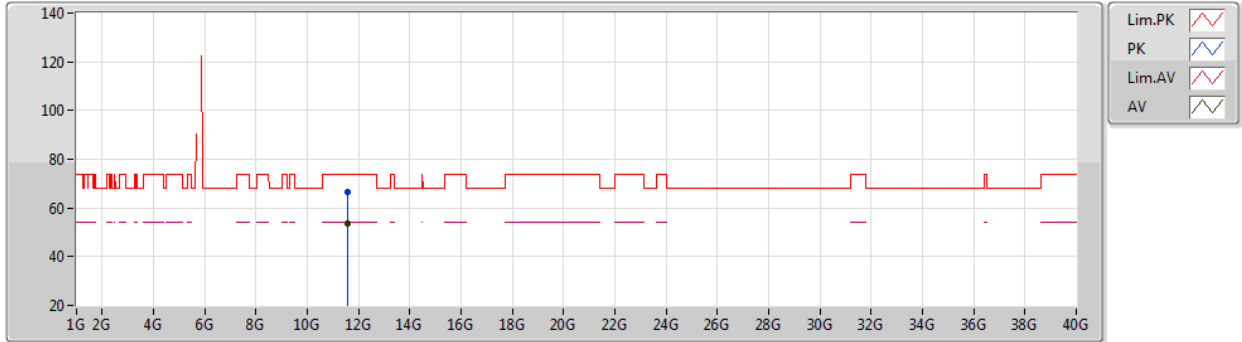
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.56648G	60.48	74.00	-13.52	48.71	3	Vertical	281	1.33	-	38.40	7.85	34.48
AV	11.56616G	47.45	54.00	-6.55	35.68	3	Vertical	281	1.33	-	38.40	7.85	34.48

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5785MHz_TX



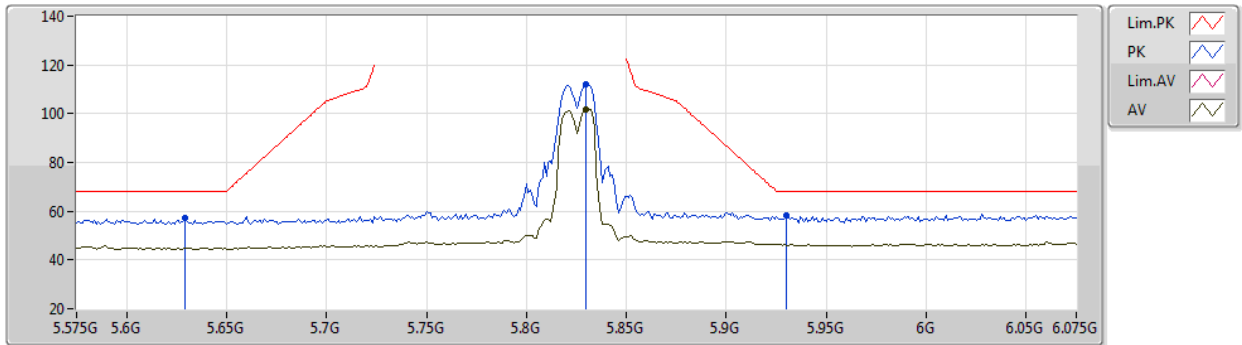
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5686G	66.38	74.00	-7.62	54.61	3	Horizontal	277	1.80	-	38.40	7.85	34.48
AV	11.56616G	53.78	54.00	-0.22	42.01	3	Horizontal	277	1.80	-	38.40	7.85	34.48

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5825MHz_TX



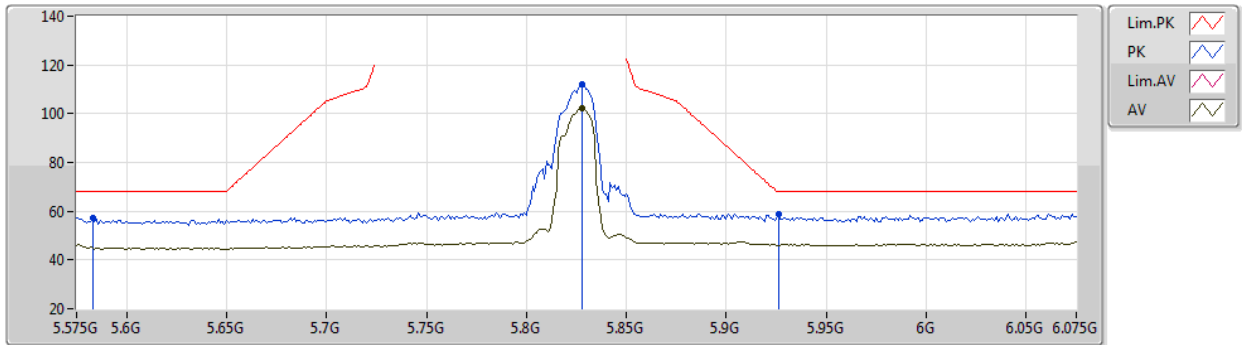
EUT Y_4TX
Setting 77
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.629G	57.02	68.20	-11.18	52.20	3	Vertical	126	1.99	-	33.86	5.41	34.45
PK	5.83G	112.22	Inf	-Inf	106.82	3	Vertical	126	1.99	-	34.42	5.50	34.52
AV	5.83G	101.89	Inf	-Inf	96.49	3	Vertical	126	1.99	-	34.42	5.50	34.52
PK	5.93G	58.14	68.20	-10.06	52.28	3	Vertical	126	1.99	-	34.92	5.50	34.56

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5825MHz_TX



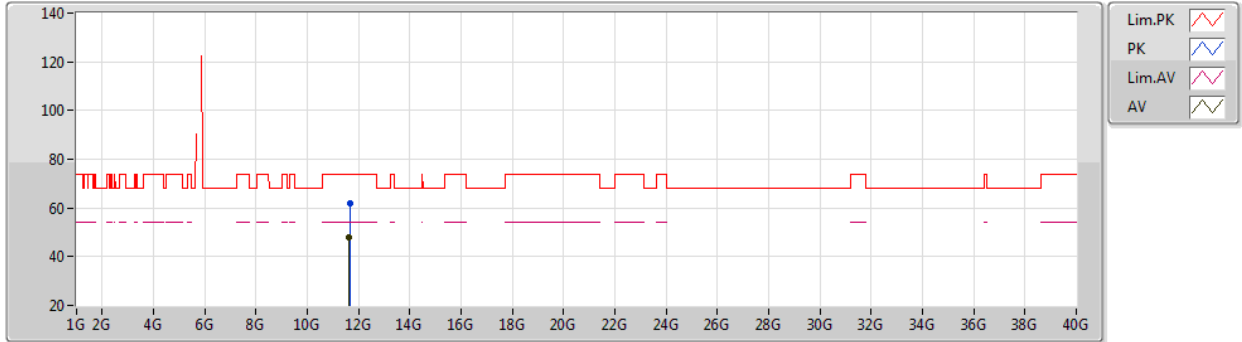
EUT Y_4TX
Setting 77
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.583G	57.26	68.20	-10.94	52.53	3	Horizontal	102	1.73	-	33.77	5.40	34.44
PK	5.828G	111.91	Inf	-Inf	106.52	3	Horizontal	102	1.73	-	34.41	5.50	34.52
AV	5.828G	102.13	Inf	-Inf	96.74	3	Horizontal	102	1.73	-	34.41	5.50	34.52
PK	5.926G	58.67	68.20	-9.53	52.82	3	Horizontal	102	1.73	-	34.90	5.50	34.55

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5825MHz_TX



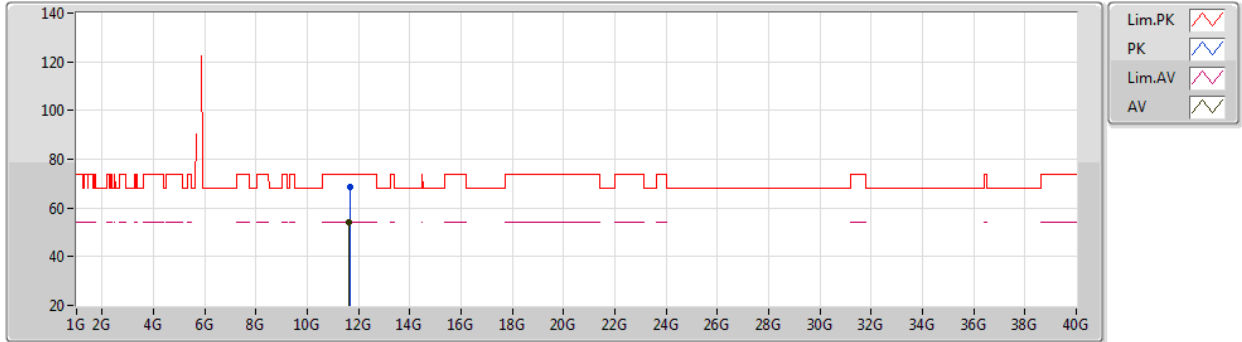
EUT Y_4TX
Setting 77
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.64836G	61.80	74.00	-12.20	49.96	3	Vertical	278	1.34	-	38.45	7.88	34.49
AV	11.64616G	47.73	54.00	-6.27	35.89	3	Vertical	278	1.34	-	38.45	7.88	34.49

802.11a_Nss1,(6Mbps)_4TX

06/03/2021

5825MHz_TX



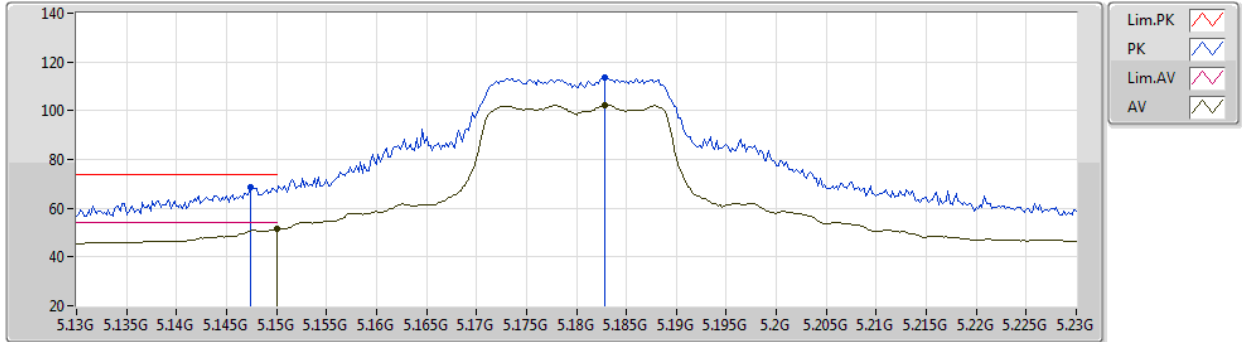
EUT Y_4TX
Setting 77
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.64852G	68.46	74.00	-5.54	56.62	3	Horizontal	271	1.26	-	38.45	7.88	34.49
AV	11.64612G	53.94	54.00	-0.06	42.10	3	Horizontal	271	1.26	-	38.45	7.88	34.49

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5180MHz_TX



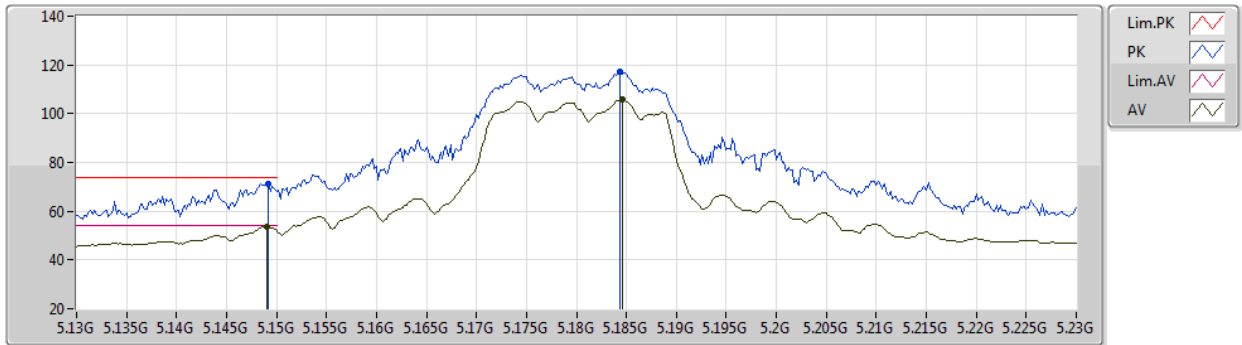
EUT Y_4TX
Setting 87
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1474G	68.52	74.00	-5.48	65.20	3	Vertical	245	1.97	-	32.60	5.17	34.45
AV	5.15G	51.33	54.00	-2.67	48.01	3	Vertical	245	1.97	-	32.60	5.17	34.45
PK	5.1828G	113.80	Inf	-Inf	110.39	3	Vertical	245	1.97	-	32.67	5.19	34.45
AV	5.1828G	102.17	Inf	-Inf	98.76	3	Vertical	245	1.97	-	32.67	5.19	34.45

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5180MHz_TX



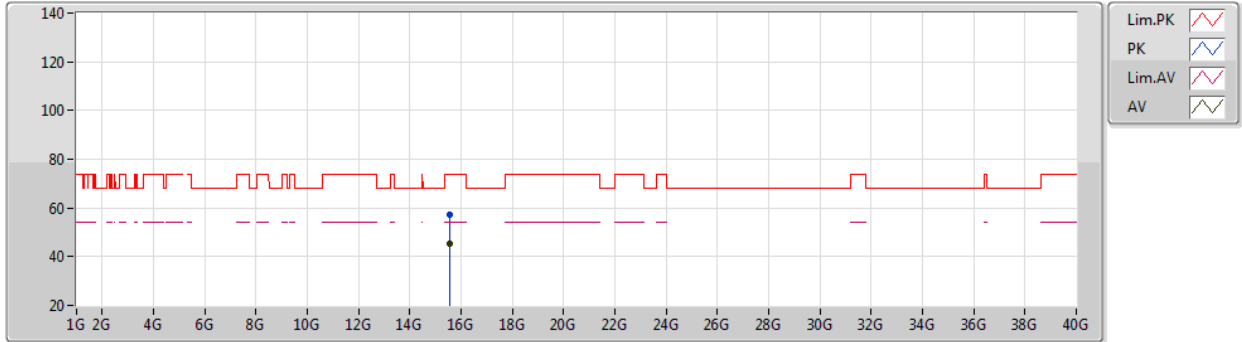
EUT Y_4TX
Setting 87
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1492G	71.41	74.00	-2.59	68.09	3	Horizontal	90	2.04	-	32.60	5.17	34.45
AV	5.149G	53.80	54.00	-0.20	50.48	3	Horizontal	90	2.04	-	32.60	5.17	34.45
PK	5.1844G	117.26	Inf	-Inf	113.85	3	Horizontal	90	2.04	-	32.67	5.19	34.45
AV	5.1846G	105.66	Inf	-Inf	102.25	3	Horizontal	90	2.04	-	32.67	5.19	34.45

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5180MHz_TX



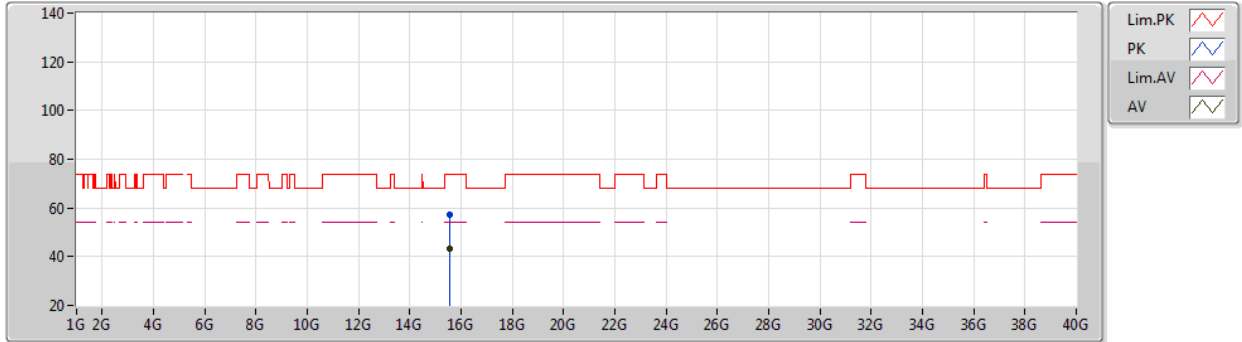
EUT Y_4TX
Setting 87
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.54266G	57.12	74.00	-16.88	44.09	3	Vertical	21	2.79	-	38.19	9.21	34.37
AV	15.5429G	45.54	54.00	-8.46	32.51	3	Vertical	21	2.79	-	38.19	9.21	34.37

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5180MHz_TX



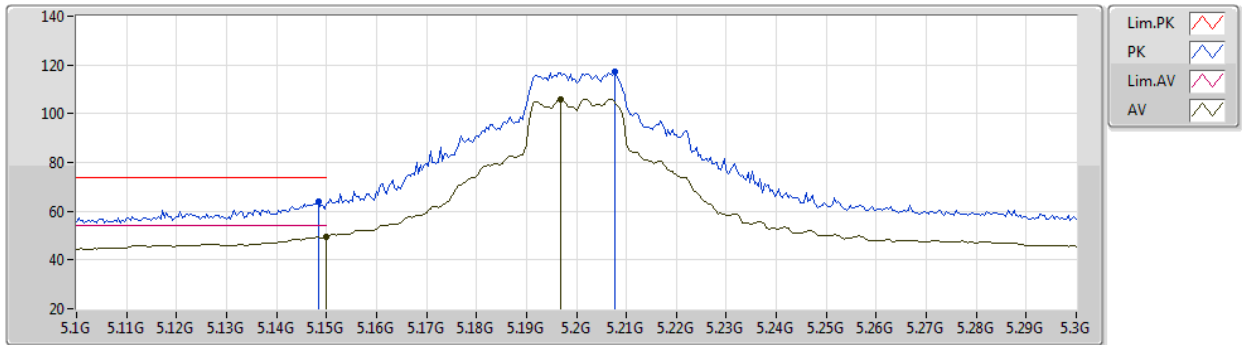
EUT Y_4TX
Setting 87
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.54218G	56.99	74.00	-17.01	43.97	3	Horizontal	160	2.60	-	38.18	9.21	34.37
AV	15.5434G	43.44	54.00	-10.56	30.41	3	Horizontal	160	2.60	-	38.19	9.21	34.37

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5200MHz_TX



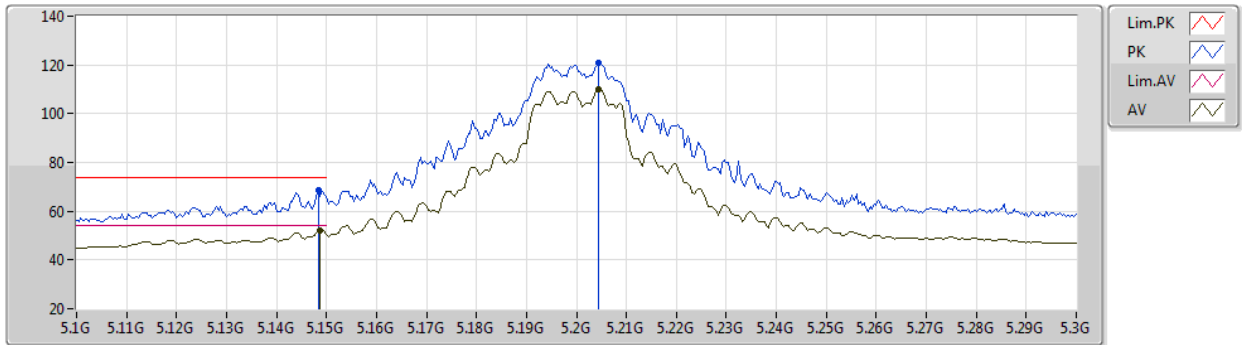
EUT Y_4TX
Setting 106
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1484G	63.85	74.00	-10.15	60.53	3	Vertical	263	1.52	-	32.60	5.17	34.45
AV	5.15G	49.35	54.00	-4.65	46.03	3	Vertical	263	1.52	-	32.60	5.17	34.45
PK	5.2076G	117.34	Inf	-Inf	113.86	3	Vertical	263	1.52	-	32.72	5.21	34.45
AV	5.1968G	105.99	Inf	-Inf	102.55	3	Vertical	263	1.52	-	32.69	5.20	34.45

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5200MHz_TX



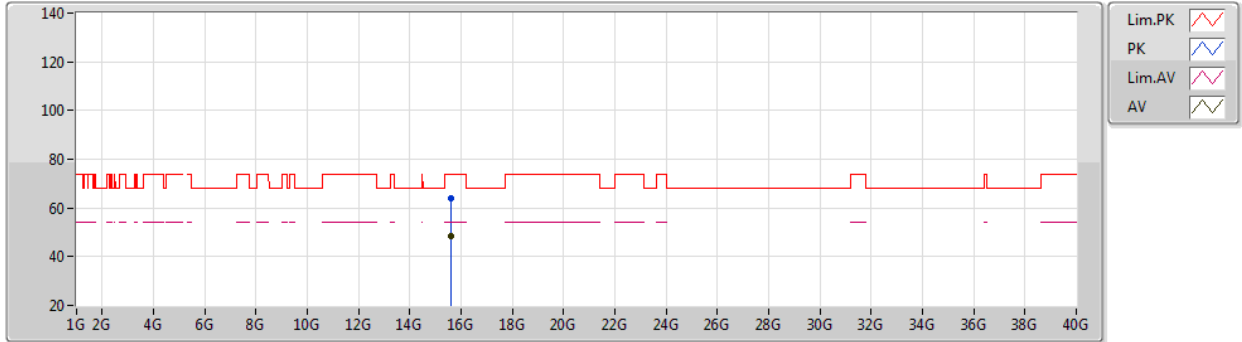
EUT Y_4TX
Setting 106
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1484G	68.47	74.00	-5.53	65.15	3	Horizontal	92	2.02	-	32.60	5.17	34.45
AV	5.1488G	52.04	54.00	-1.96	48.72	3	Horizontal	92	2.02	-	32.60	5.17	34.45
PK	5.2044G	121.02	Inf	-Inf	117.56	3	Horizontal	92	2.02	-	32.71	5.20	34.45
AV	5.2044G	109.87	Inf	-Inf	106.41	3	Horizontal	92	2.02	-	32.71	5.20	34.45

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5200MHz_TX



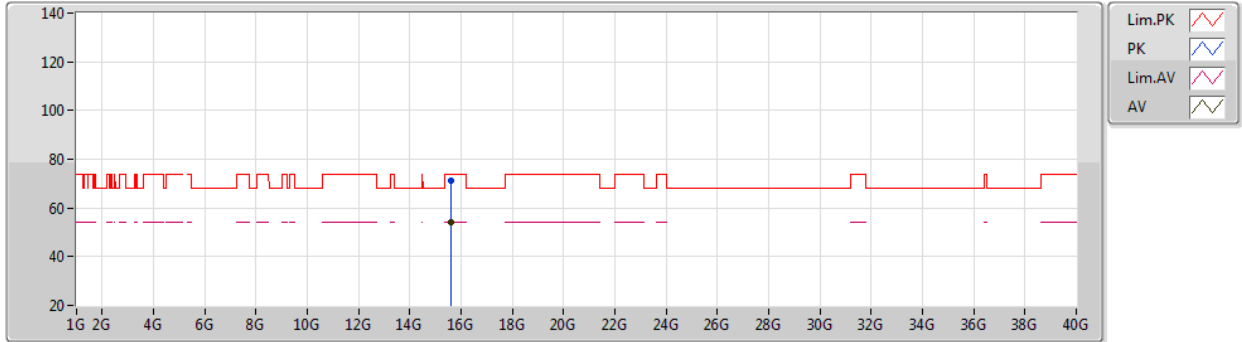
EUT Y_4TX
Setting 106
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.59712G	63.71	74.00	-10.29	50.63	3	Vertical	310	1.34	-	38.29	9.22	34.43
AV	15.60192G	48.38	54.00	-5.62	35.29	3	Vertical	310	1.34	-	38.30	9.22	34.43

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5200MHz_TX



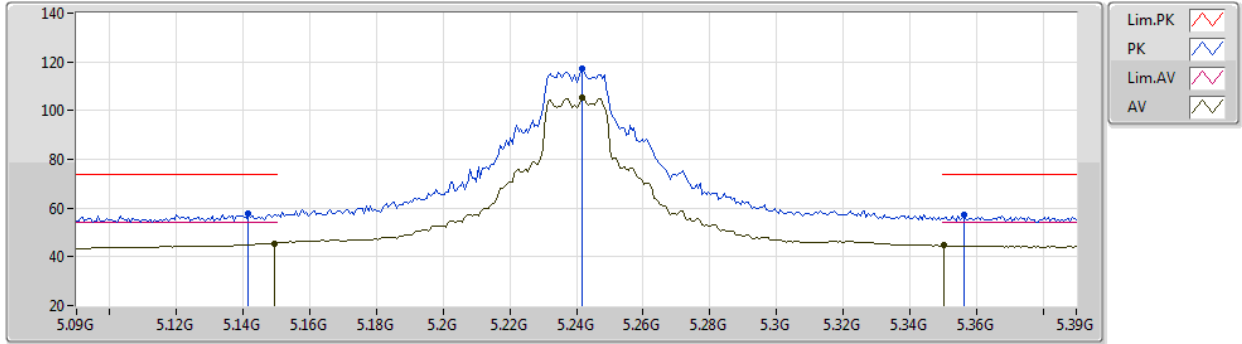
EUT Y_4TX
Setting 106
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.59262G	71.40	74.00	-2.60	58.31	3	Horizontal	333	1.59	-	38.29	9.22	34.42
AV	15.60246G	53.98	54.00	-0.02	40.89	3	Horizontal	333	1.59	-	38.30	9.22	34.43

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5240MHz_TX



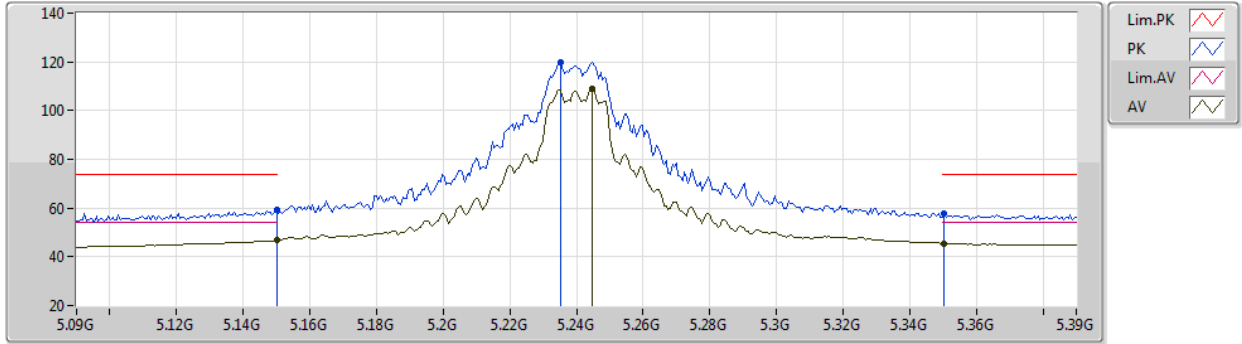
EUT Y_4TX
Setting 104
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1416G	57.51	74.00	-16.49	54.19	3	Vertical	263	1.67	-	32.60	5.17	34.45
AV	5.1494G	45.49	54.00	-8.51	42.17	3	Vertical	263	1.67	-	32.60	5.17	34.45
PK	5.2418G	117.05	Inf	-Inf	113.47	3	Vertical	263	1.67	-	32.78	5.24	34.44
AV	5.2418G	105.13	Inf	-Inf	101.55	3	Vertical	263	1.67	-	32.78	5.24	34.44
PK	5.3564G	57.26	74.00	-16.74	53.39	3	Vertical	263	1.67	-	32.94	5.36	34.43
AV	5.3504G	44.64	54.00	-9.36	40.82	3	Vertical	263	1.67	-	32.90	5.35	34.43

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5240MHz_TX



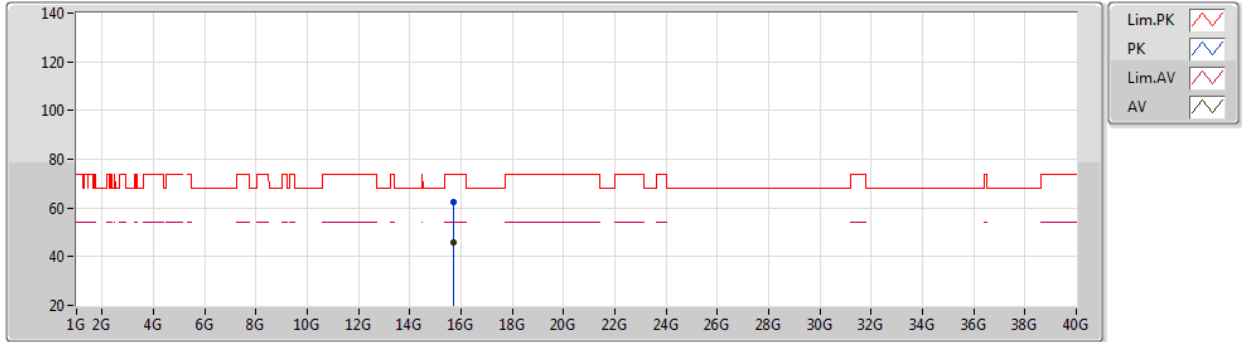
EUT Y_4TX
Setting 104
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	59.24	74.00	-14.76	55.92	3	Horizontal	91	2.08	-	32.60	5.17	34.45
AV	5.15G	46.67	54.00	-7.33	43.35	3	Horizontal	91	2.08	-	32.60	5.17	34.45
PK	5.2352G	119.81	Inf	-Inf	116.24	3	Horizontal	91	2.08	-	32.77	5.24	34.44
AV	5.2448G	109.03	Inf	-Inf	105.44	3	Horizontal	91	2.08	-	32.79	5.24	34.44
PK	5.3504G	57.62	74.00	-16.38	53.80	3	Horizontal	91	2.08	-	32.90	5.35	34.43
AV	5.3504G	45.59	54.00	-8.41	41.77	3	Horizontal	91	2.08	-	32.90	5.35	34.43

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5240MHz_TX



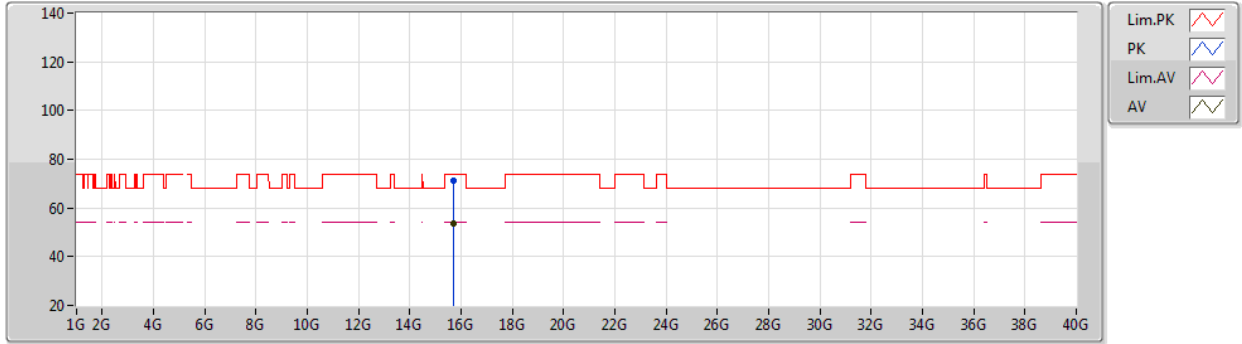
EUT Y_4TX
Setting 104
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.71688G	62.18	74.00	-11.82	49.09	3	Vertical	306	1.80	-	38.40	9.24	34.55
AV	15.717G	45.88	54.00	-8.12	32.79	3	Vertical	306	1.80	-	38.40	9.24	34.55

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5240MHz_TX



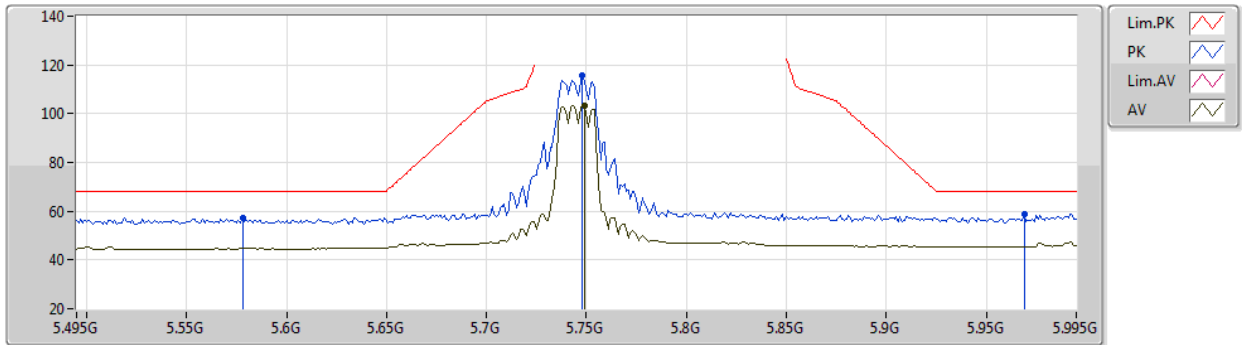
EUT Y_4TX
Setting 104
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.7149G	71.00	74.00	-3.00	57.90	3	Horizontal	310	2.72	-	38.40	9.24	34.54
AV	15.72G	53.70	54.00	-0.30	40.61	3	Horizontal	310	2.72	-	38.40	9.24	34.55

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5745MHz_TX



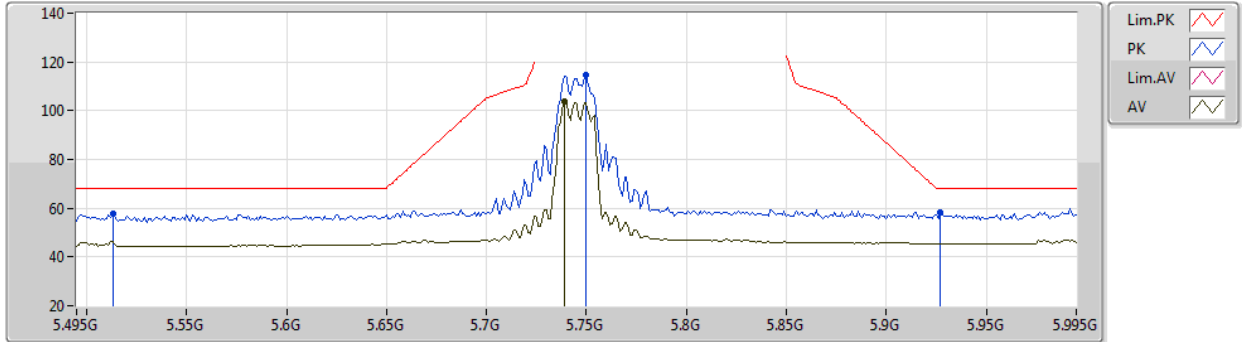
EUT Y_4TX
Setting 84
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.578G	57.45	68.20	-10.75	52.73	3	Vertical	125	2.00	-	33.76	5.40	34.44
PK	5.748G	115.56	Inf	-Inf	110.49	3	Vertical	125	2.00	-	34.09	5.47	34.49
AV	5.749G	103.39	Inf	-Inf	98.31	3	Vertical	125	2.00	-	34.10	5.47	34.49
PK	5.969G	58.81	68.20	-9.39	52.80	3	Vertical	125	2.00	-	35.08	5.50	34.57

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5745MHz_TX



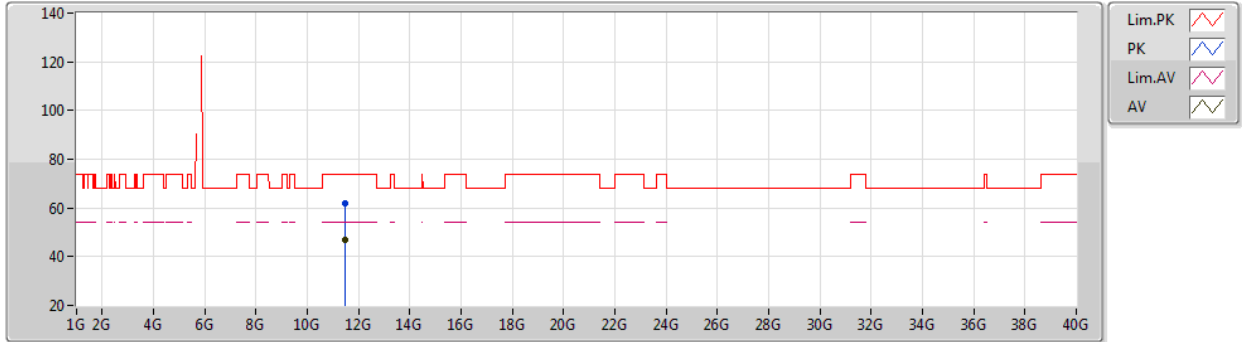
EUT Y_4TX
Setting 84
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.513G	57.67	68.20	-10.53	53.13	3	Horizontal	94	2.43	-	33.55	5.40	34.41
PK	5.75G	114.48	Inf	-Inf	109.40	3	Horizontal	94	2.43	-	34.10	5.47	34.49
AV	5.739G	103.61	Inf	-Inf	98.57	3	Horizontal	94	2.43	-	34.06	5.47	34.49
PK	5.927G	58.29	68.20	-9.91	52.44	3	Horizontal	94	2.43	-	34.91	5.50	34.56

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5745MHz_TX



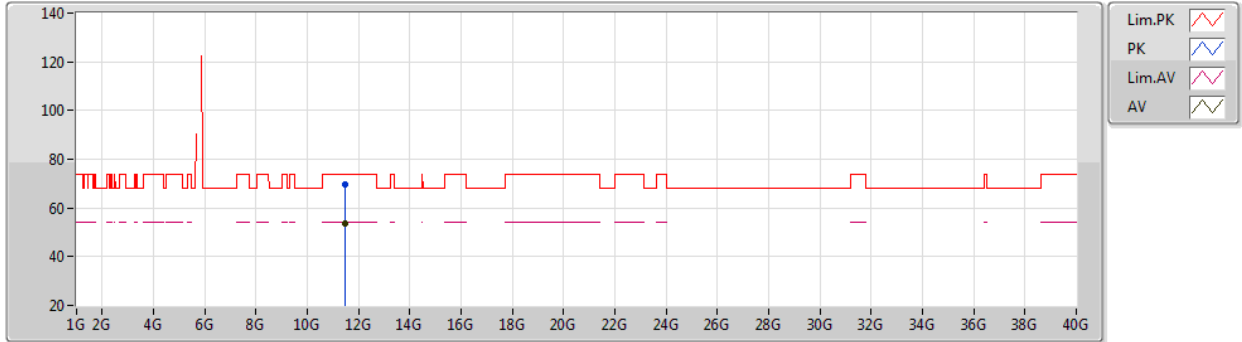
EUT Y_4TX
Setting 84
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48526G	61.94	74.00	-12.06	50.19	3	Vertical	106	1.39	-	38.40	7.82	34.47
AV	11.49168G	46.72	54.00	-7.28	34.97	3	Vertical	106	1.39	-	38.40	7.82	34.47

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5745MHz_TX



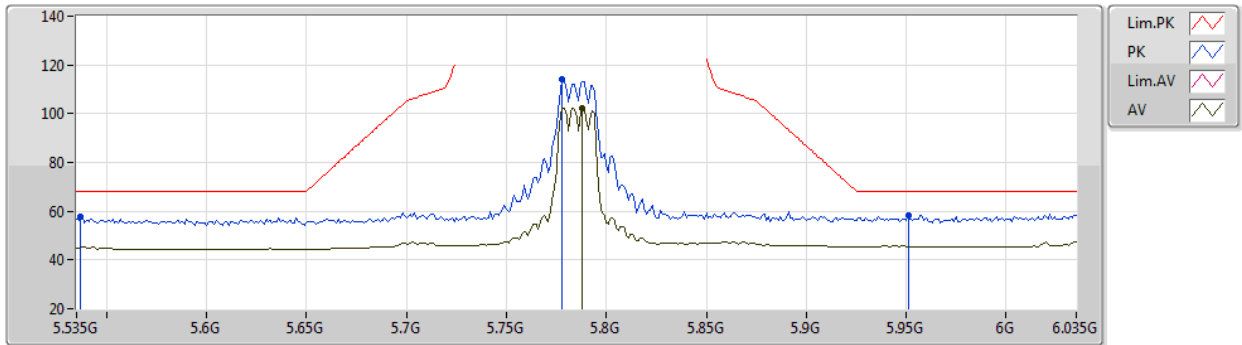
EUT Y_4TX
Setting 84
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.4921G	69.44	74.00	-4.56	57.69	3	Horizontal	276	1.80	-	38.40	7.82	34.47
AV	11.49222G	53.86	54.00	-0.14	42.11	3	Horizontal	276	1.80	-	38.40	7.82	34.47

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5785MHz_TX



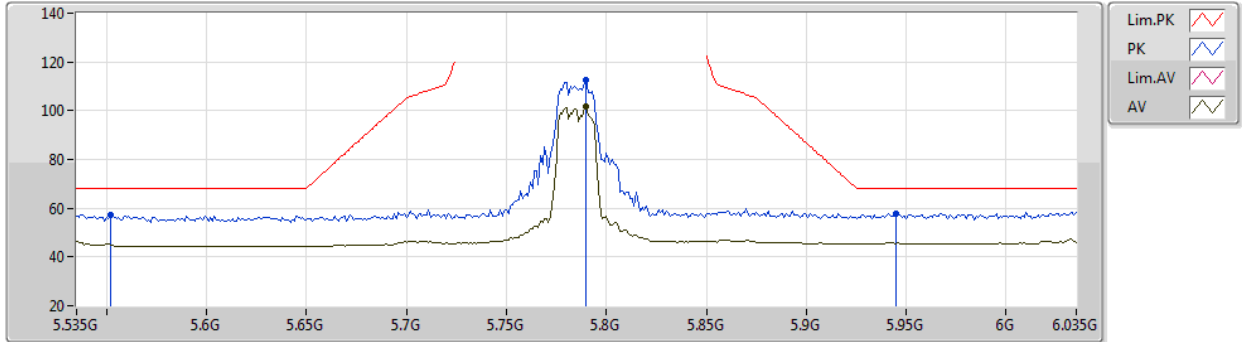
EUT Y_4TX
Setting 82
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.537G	57.54	68.20	-10.66	52.91	3	Vertical	122	1.93	-	33.65	5.40	34.42
PK	5.778G	114.15	Inf	-Inf	108.95	3	Vertical	122	1.93	-	34.21	5.49	34.50
AV	5.788G	102.13	Inf	-Inf	96.90	3	Vertical	122	1.93	-	34.25	5.49	34.51
PK	5.951G	58.15	68.20	-10.05	52.21	3	Vertical	122	1.93	-	35.00	5.50	34.56

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5785MHz_TX



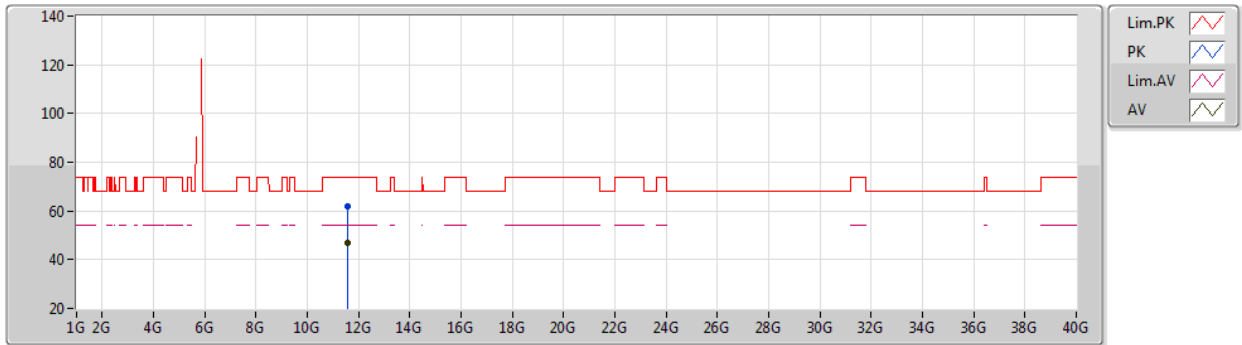
EUT Y_4TX
Setting 82
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.552G	57.22	68.20	-10.98	52.55	3	Horizontal	104	1.66	-	33.70	5.40	34.43
PK	5.79G	112.37	Inf	-Inf	107.12	3	Horizontal	104	1.66	-	34.26	5.50	34.51
AV	5.79G	101.81	Inf	-Inf	96.56	3	Horizontal	104	1.66	-	34.26	5.50	34.51
PK	5.945G	57.83	68.20	-10.37	51.91	3	Horizontal	104	1.66	-	34.98	5.50	34.56

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5785MHz_TX



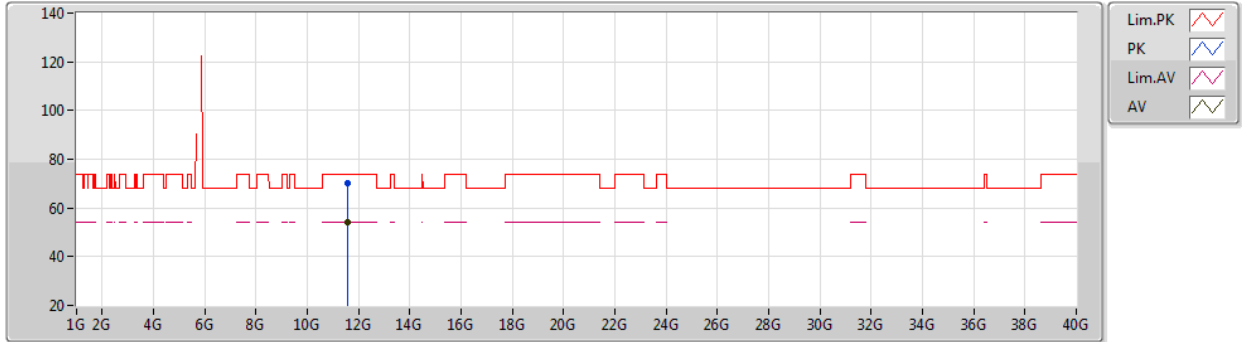
EUT Y_4TX
Setting 82
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5673G	61.66	74.00	-12.34	49.89	3	Vertical	277	1.47	-	38.40	7.85	34.48
AV	11.57216G	47.07	54.00	-6.93	35.30	3	Vertical	277	1.47	-	38.40	7.85	34.48

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5785MHz_TX



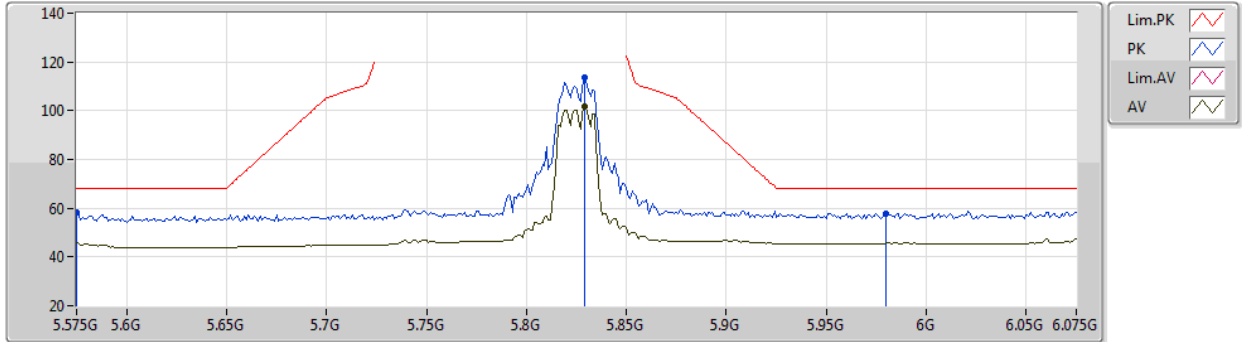
EUT Y_4TX
Setting 82
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5724G	70.02	74.00	-3.98	58.25	3	Horizontal	271	1.27	-	38.40	7.85	34.48
AV	11.57228G	53.98	54.00	-0.02	42.21	3	Horizontal	271	1.27	-	38.40	7.85	34.48

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5825MHz_TX



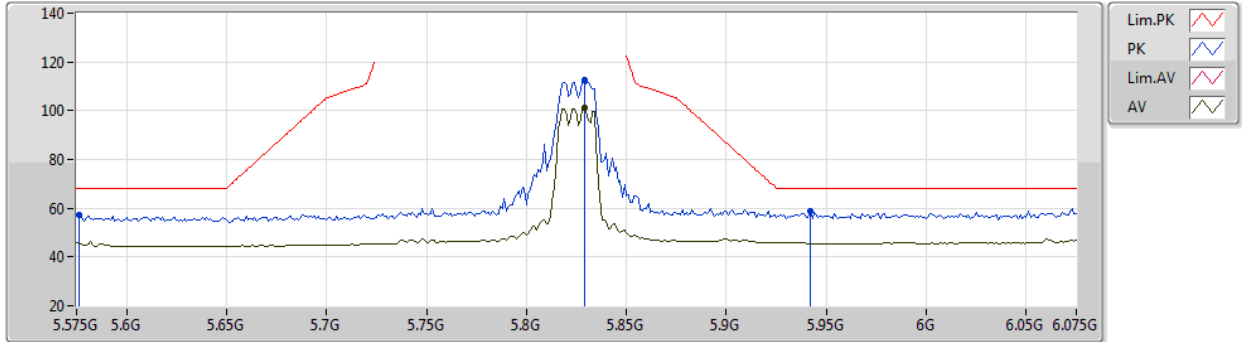
EUT Y_4TX
Setting 82
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.575G	58.40	68.20	-9.80	53.69	3	Vertical	120	2.13	-	33.75	5.40	34.44
PK	5.829G	113.62	Inf	-Inf	108.22	3	Vertical	120	2.13	-	34.42	5.50	34.52
AV	5.829G	101.55	Inf	-Inf	96.15	3	Vertical	120	2.13	-	34.42	5.50	34.52
PK	5.98G	57.94	68.20	-10.26	51.89	3	Vertical	120	2.13	-	35.12	5.50	34.57

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5825MHz_TX



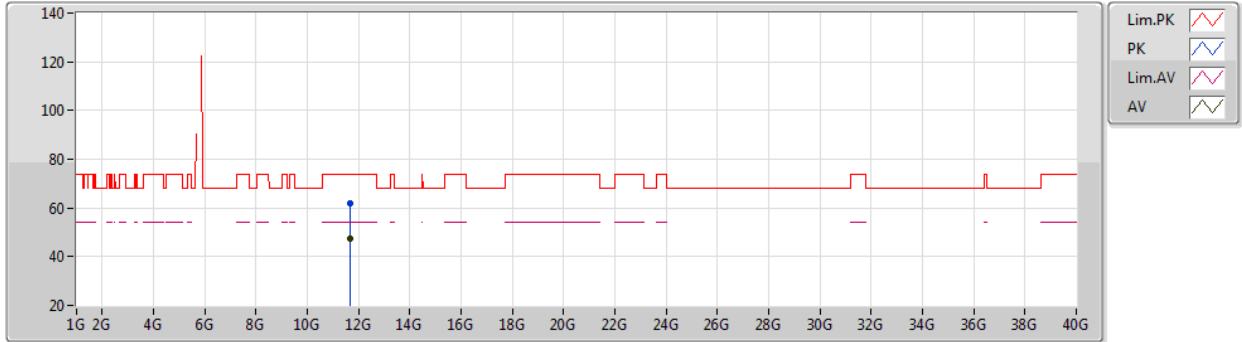
EUT Y_4TX
Setting 82
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.576G	57.28	68.20	-10.92	52.57	3	Horizontal	96	2.02	-	33.75	5.40	34.44
PK	5.829G	112.80	Inf	-Inf	107.40	3	Horizontal	96	2.02	-	34.42	5.50	34.52
AV	5.829G	101.38	Inf	-Inf	95.98	3	Horizontal	96	2.02	-	34.42	5.50	34.52
PK	5.942G	58.84	68.20	-9.36	52.93	3	Horizontal	96	2.02	-	34.97	5.50	34.56

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5825MHz_TX



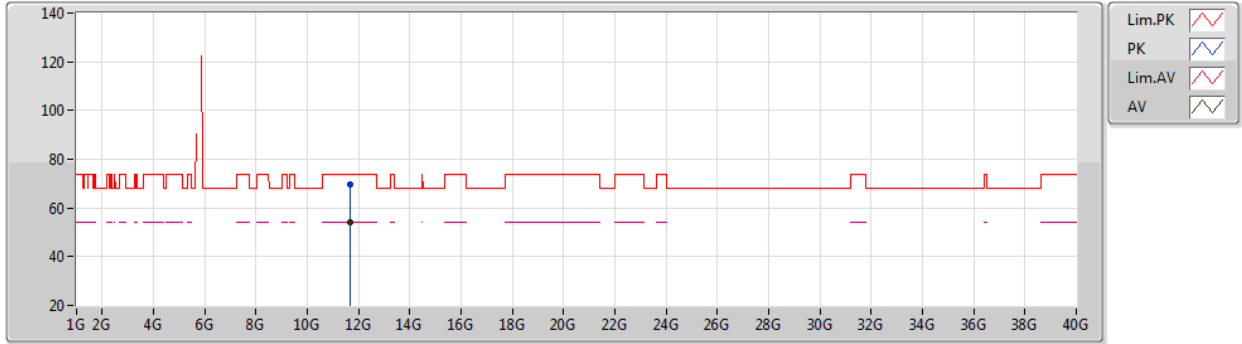
EUT_V_4TX
Setting 82
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.65234G	62.13	74.00	-11.87	50.29	3	Vertical	278	1.35	-	38.45	7.88	34.49
AV	11.65228G	47.18	54.00	-6.82	35.34	3	Vertical	278	1.35	-	38.45	7.88	34.49

802.11ac VHT20_Nss1,(MCS0)_4TX

06/03/2021

5825MHz_TX



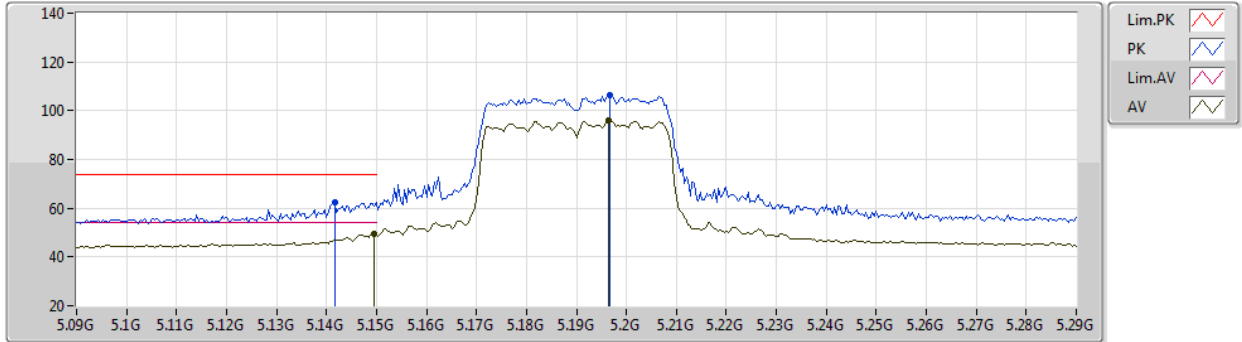
EUT Y_4TX
Setting 82
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.6476G	69.46	74.00	-4.54	57.62	3	Horizontal	266	1.34	-	38.45	7.88	34.49
AV	11.65228G	53.99	54.00	-0.01	42.15	3	Horizontal	266	1.34	-	38.45	7.88	34.49

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5190MHz_TX



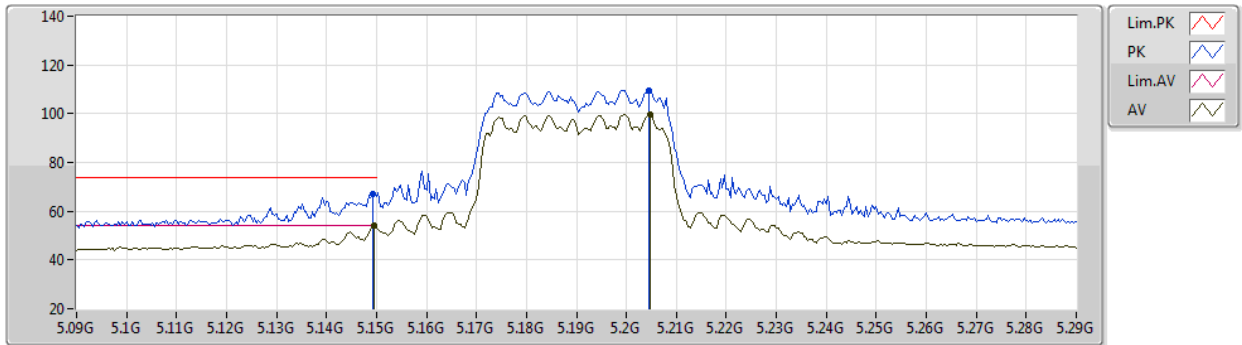
EUT Y_4TX
Setting 71
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1416G	62.41	74.00	-11.59	59.09	3	Vertical	260	1.66	-	32.60	5.17	34.45
AV	5.1496G	49.29	54.00	-4.71	45.97	3	Vertical	260	1.66	-	32.60	5.17	34.45
PK	5.1968G	106.62	Inf	-Inf	103.18	3	Vertical	260	1.66	-	32.69	5.20	34.45
AV	5.1964G	95.99	Inf	-Inf	92.55	3	Vertical	260	1.66	-	32.69	5.20	34.45

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5190MHz_TX



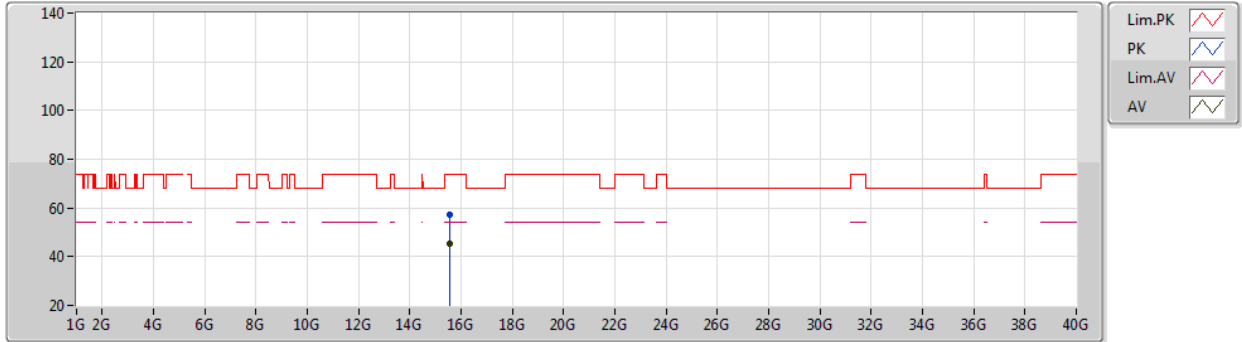
EUT Y_4TX
Setting 71
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1492G	66.84	74.00	-7.16	63.52	3	Horizontal	93	2.02	-	32.60	5.17	34.45
AV	5.1496G	53.99	54.00	-0.01	50.67	3	Horizontal	93	2.02	-	32.60	5.17	34.45
PK	5.2044G	109.58	Inf	-Inf	106.12	3	Horizontal	93	2.02	-	32.71	5.20	34.45
AV	5.2048G	99.76	Inf	-Inf	96.30	3	Horizontal	93	2.02	-	32.71	5.20	34.45

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5190MHz_TX



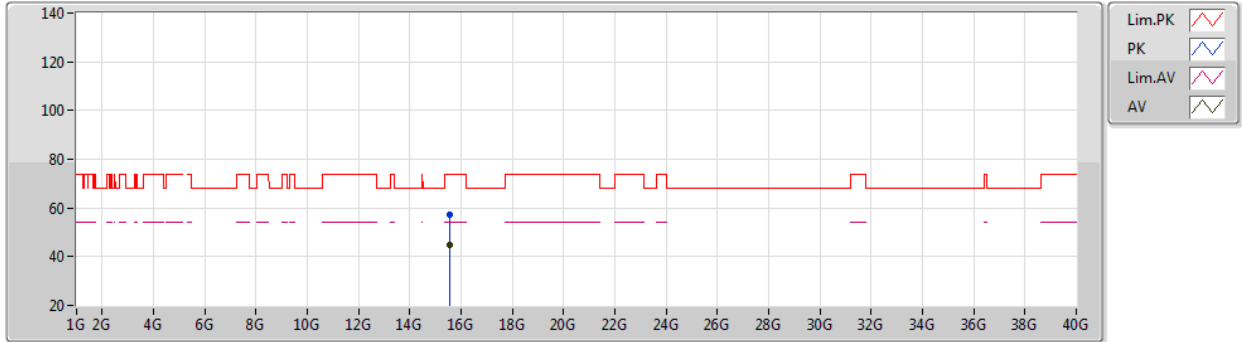
EUT Y_4TX
Setting 71
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.56856G	57.30	74.00	-16.70	44.25	3	Vertical	251	2.94	-	38.24	9.21	34.40
AV	15.56756G	45.49	54.00	-8.51	32.44	3	Vertical	251	2.94	-	38.24	9.21	34.40

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5190MHz_TX



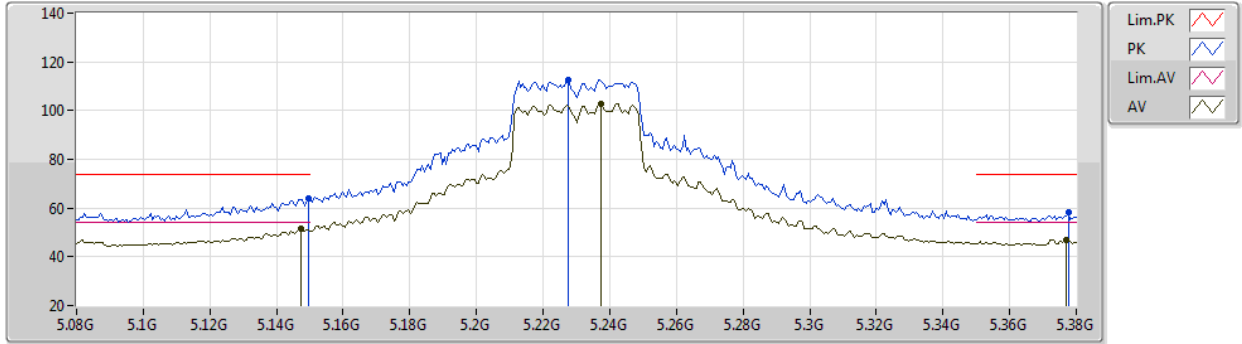
EUT Y_4TX
Setting 71
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.57448G	57.07	74.00	-16.93	44.01	3	Horizontal	272	2.23	-	38.25	9.21	34.40
AV	15.5716G	45.08	54.00	-8.92	32.03	3	Horizontal	272	2.23	-	38.24	9.21	34.40

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5230MHz_TX



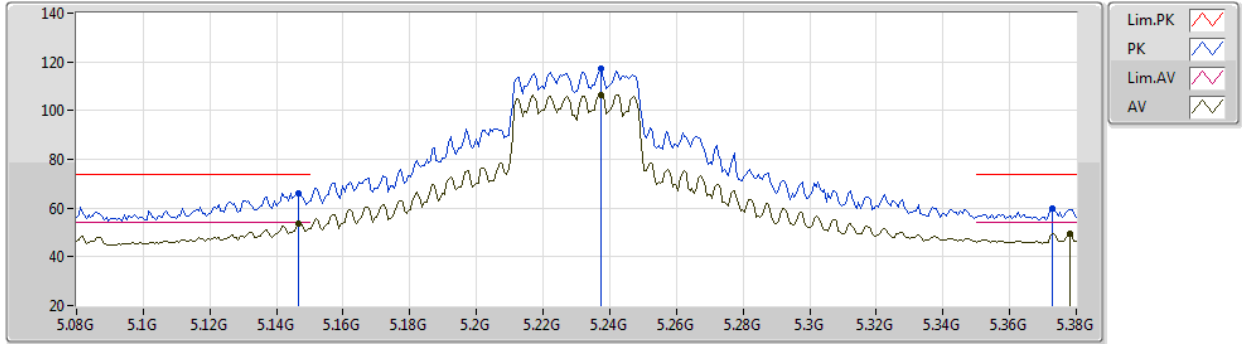
EUT Y_4TX
Setting 99
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	64.05	74.00	-9.95	60.73	3	Vertical	263	1.67	-	32.60	5.17	34.45
AV	5.1472G	51.33	54.00	-2.67	48.01	3	Vertical	263	1.67	-	32.60	5.17	34.45
PK	5.2276G	112.39	Inf	-Inf	108.84	3	Vertical	263	1.67	-	32.76	5.23	34.44
AV	5.2372G	103.00	Inf	-Inf	99.43	3	Vertical	263	1.67	-	32.77	5.24	34.44
PK	5.3776G	58.29	74.00	-15.71	54.26	3	Vertical	263	1.67	-	33.07	5.38	34.42
AV	5.377G	46.89	54.00	-7.11	42.87	3	Vertical	263	1.67	-	33.06	5.38	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5230MHz_TX



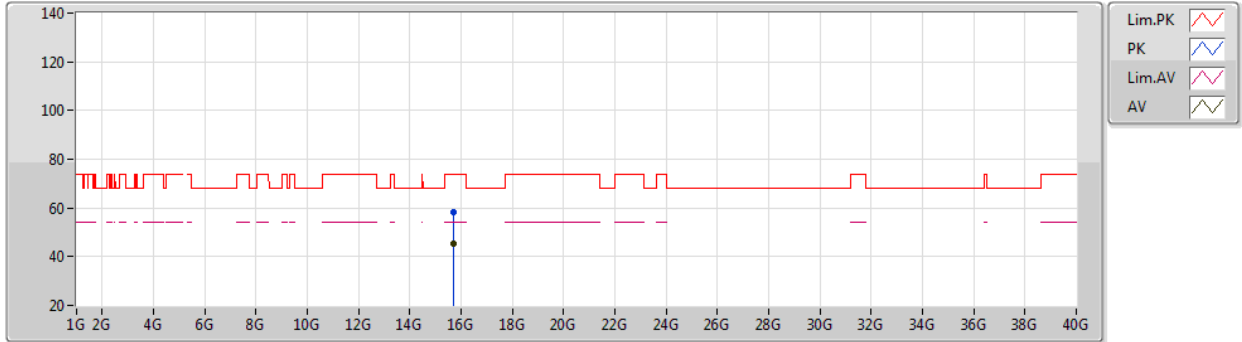
EUT Y_4TX
Setting 99
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1466G	66.26	74.00	-7.74	62.94	3	Horizontal	140	1.68	-	32.60	5.17	34.45
AV	5.1466G	53.61	54.00	-0.39	50.29	3	Horizontal	140	1.68	-	32.60	5.17	34.45
PK	5.2372G	117.18	Inf	-Inf	113.61	3	Horizontal	140	1.68	-	32.77	5.24	34.44
AV	5.2372G	106.58	Inf	-Inf	103.01	3	Horizontal	140	1.68	-	32.77	5.24	34.44
PK	5.3728G	59.61	74.00	-14.39	55.63	3	Horizontal	140	1.68	-	33.04	5.37	34.43
AV	5.3728G	49.69	54.00	-4.31	45.66	3	Horizontal	140	1.68	-	33.07	5.38	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5230MHz_TX



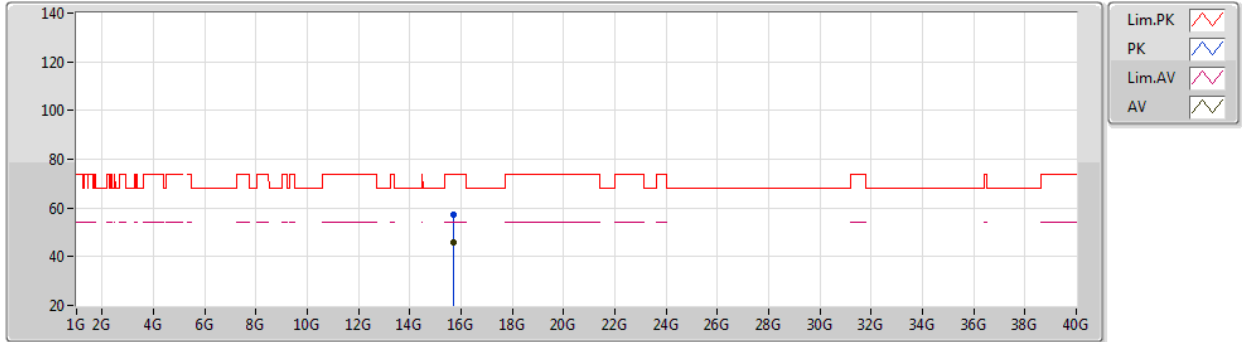
EUT Y_4TX
Setting 99
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.69112G	58.24	74.00	-15.76	45.13	3	Vertical	240	2.68	-	38.39	9.24	34.52
AV	15.68778G	45.60	54.00	-8.40	32.49	3	Vertical	240	2.68	-	38.39	9.24	34.52

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5230MHz_TX



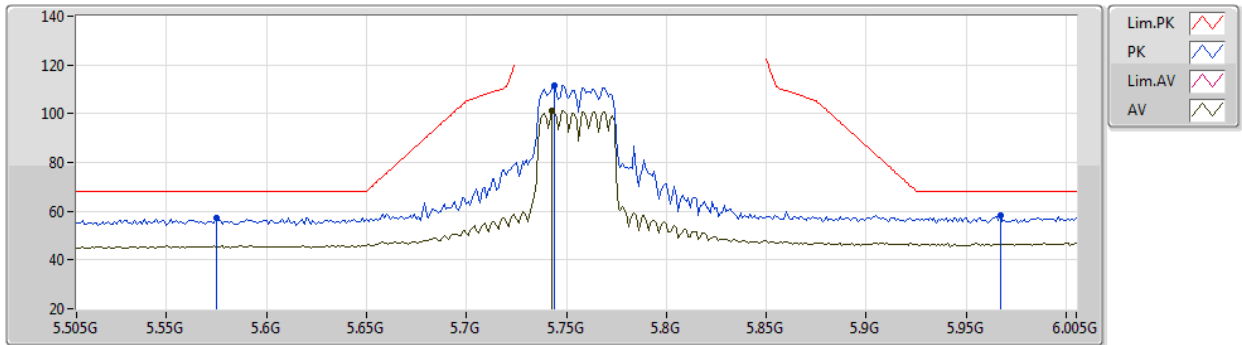
EUT Y_4TX
Setting 99
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.68656G	57.44	74.00	-16.56	44.33	3	Horizontal	143	1.17	-	38.39	9.24	34.52
AV	15.68982G	45.68	54.00	-8.32	32.57	3	Horizontal	143	1.17	-	38.39	9.24	34.52

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5755MHz_TX



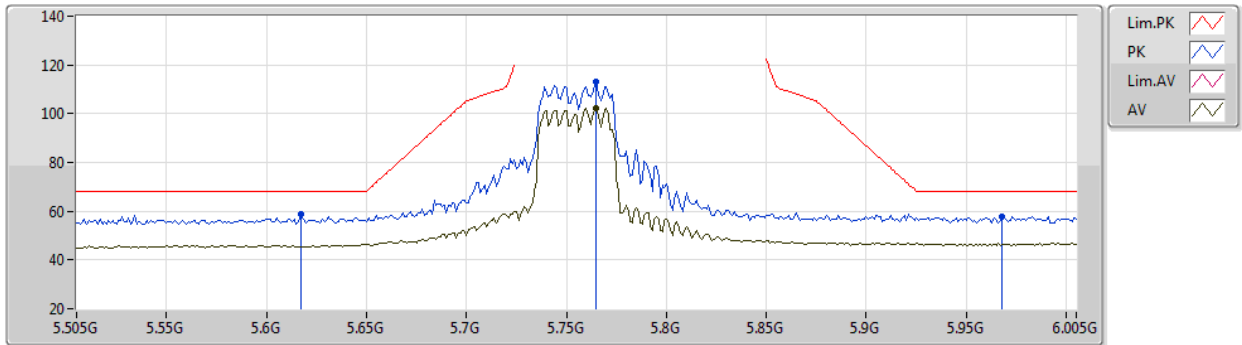
EUT Y_4TX
Setting 84
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.575G	57.41	68.20	-10.79	52.70	3	Vertical	123	1.98	-	33.75	5.40	34.44
PK	5.744G	111.73	Inf	-Inf	106.67	3	Vertical	123	1.98	-	34.08	5.47	34.49
AV	5.743G	101.04	Inf	-Inf	95.99	3	Vertical	123	1.98	-	34.07	5.47	34.49
PK	5.967G	58.11	68.20	-10.09	52.11	3	Vertical	123	1.98	-	35.07	5.50	34.57

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5755MHz_TX



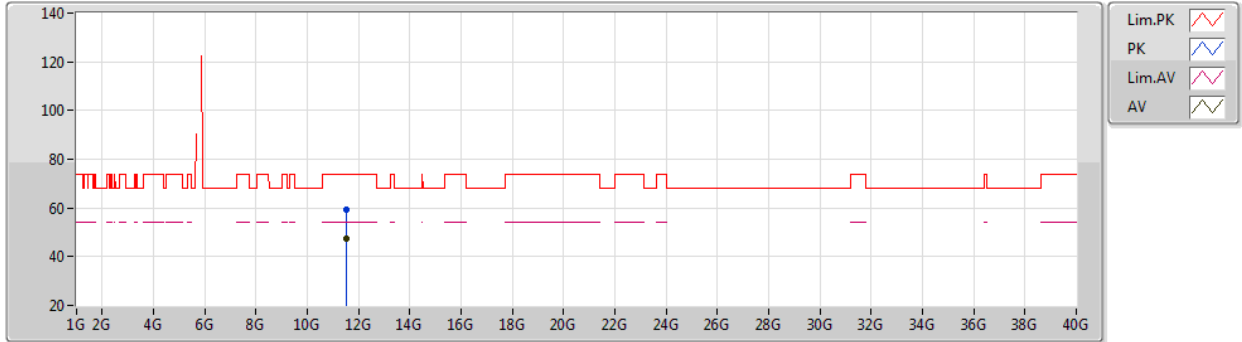
EUT Y_4TX
Setting 84
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.617G	58.54	68.20	-9.66	53.75	3	Horizontal	93	2.40	-	33.83	5.41	34.45
PK	5.765G	112.90	Inf	-Inf	107.76	3	Horizontal	93	2.40	-	34.16	5.48	34.50
AV	5.765G	102.46	Inf	-Inf	97.32	3	Horizontal	93	2.40	-	34.16	5.48	34.50
PK	5.968G	57.89	68.20	-10.31	51.89	3	Horizontal	93	2.40	-	35.07	5.50	34.57

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5755MHz_TX



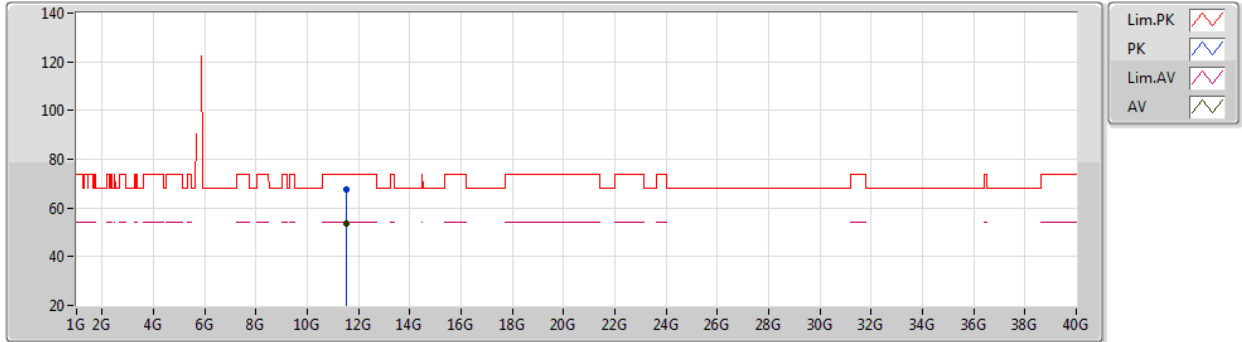
EUT V_4TX
Setting 84
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.51288G	59.44	74.00	-14.56	47.68	3	Vertical	279	1.40	-	38.40	7.83	34.47
AV	11.50718G	47.32	54.00	-6.68	35.56	3	Vertical	279	1.40	-	38.40	7.83	34.47

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5755MHz_TX



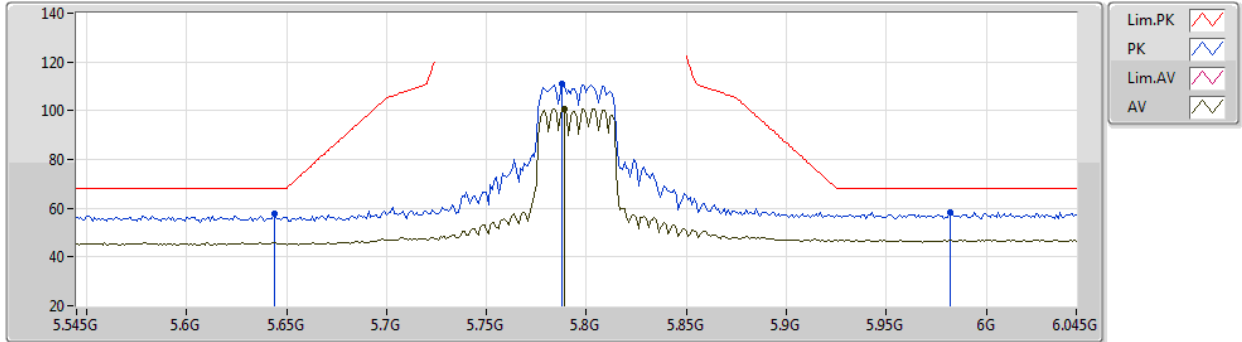
EUT Y_4TX
Setting 84
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.50778G	67.42	74.00	-6.58	55.66	3	Horizontal	276	1.21	-	38.40	7.83	34.47
AV	11.51228G	53.75	54.00	-0.25	41.99	3	Horizontal	276	1.21	-	38.40	7.83	34.47

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5795MHz_TX



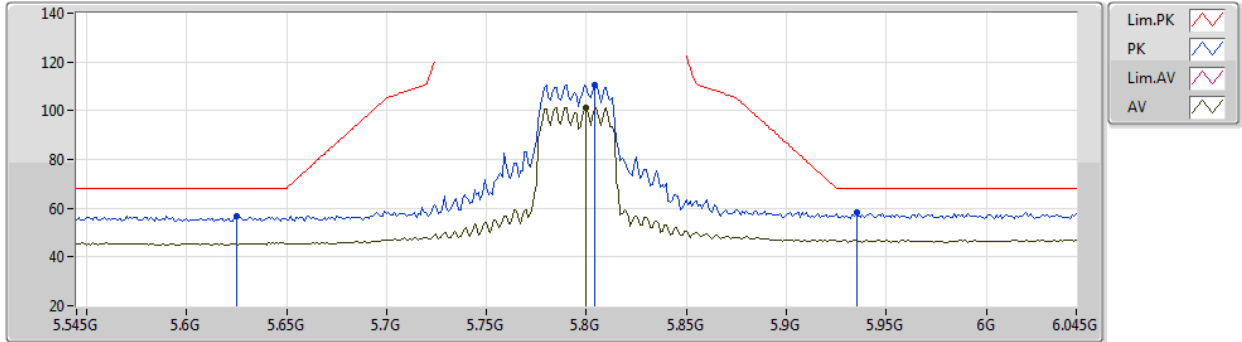
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.644G	57.81	68.20	-10.39	52.96	3	Vertical	125	2.07	-	33.89	5.42	34.46
PK	5.788G	111.09	Inf	-Inf	105.86	3	Vertical	125	2.07	-	34.25	5.49	34.51
AV	5.789G	100.90	Inf	-Inf	95.66	3	Vertical	125	2.07	-	34.26	5.49	34.51
PK	5.982G	58.32	68.20	-9.88	52.26	3	Vertical	125	2.07	-	35.13	5.50	34.57

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5795MHz_TX



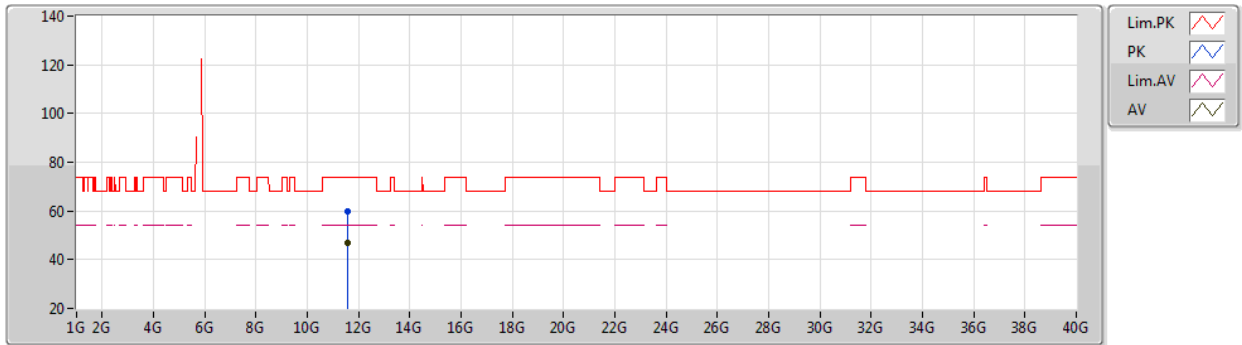
EUT Y_4TX
Setting 81
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.625G	56.78	68.20	-11.42	51.97	3	Horizontal	92	2.37	-	33.85	5.41	34.45
PK	5.804G	110.73	Inf	-Inf	105.42	3	Horizontal	92	2.37	-	34.32	5.50	34.51
AV	5.8G	101.35	Inf	-Inf	96.06	3	Horizontal	92	2.37	-	34.30	5.50	34.51
PK	5.935G	58.12	68.20	-10.08	52.24	3	Horizontal	92	2.37	-	34.94	5.50	34.56

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5795MHz_TX



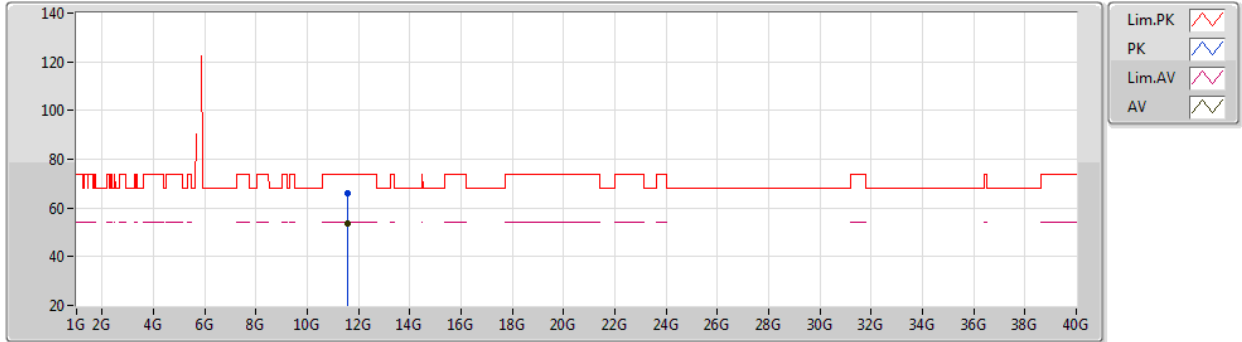
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5921G	59.88	74.00	-14.12	48.10	3	Vertical	276	1.41	-	38.40	7.86	34.48
AV	11.58712G	47.10	54.00	-6.90	35.32	3	Vertical	276	1.41	-	38.40	7.86	34.48

802.11ac VHT40_Nss1,(MCS0)_4TX

06/03/2021

5795MHz_TX



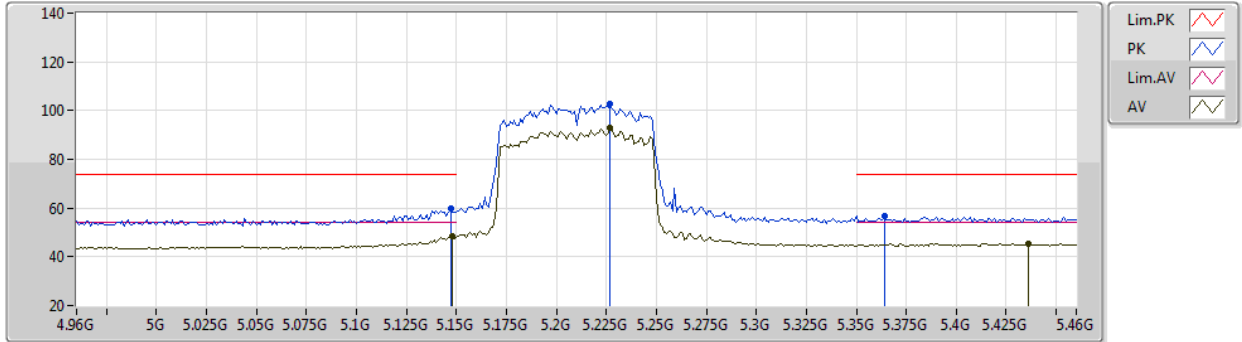
EUT Y_4TX
Setting 81
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.58724G	66.06	74.00	-7.94	54.28	3	Horizontal	268	1.27	-	38.40	7.86	34.48
AV	11.5921G	53.80	54.00	-0.20	42.02	3	Horizontal	268	1.27	-	38.40	7.86	34.48

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5210MHz_TX



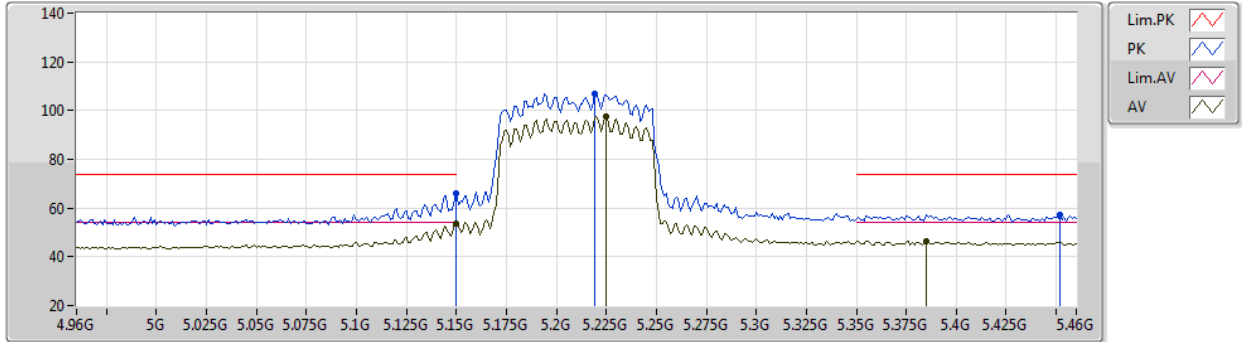
EUT Y_4TX
Setting 69
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.147G	59.69	74.00	-14.31	56.37	3	Vertical	263	1.69	-	32.60	5.17	34.45
AV	5.148G	48.27	54.00	-5.73	44.95	3	Vertical	263	1.69	-	32.60	5.17	34.45
PK	5.227G	102.79	Inf	-Inf	99.25	3	Vertical	263	1.69	-	32.75	5.23	34.44
AV	5.227G	92.88	Inf	-Inf	89.34	3	Vertical	263	1.69	-	32.75	5.23	34.44
PK	5.364G	56.77	74.00	-17.23	52.86	3	Vertical	263	1.69	-	32.98	5.36	34.43
AV	5.436G	45.46	54.00	-8.54	41.14	3	Vertical	263	1.69	-	33.34	5.40	34.42

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5210MHz_TX



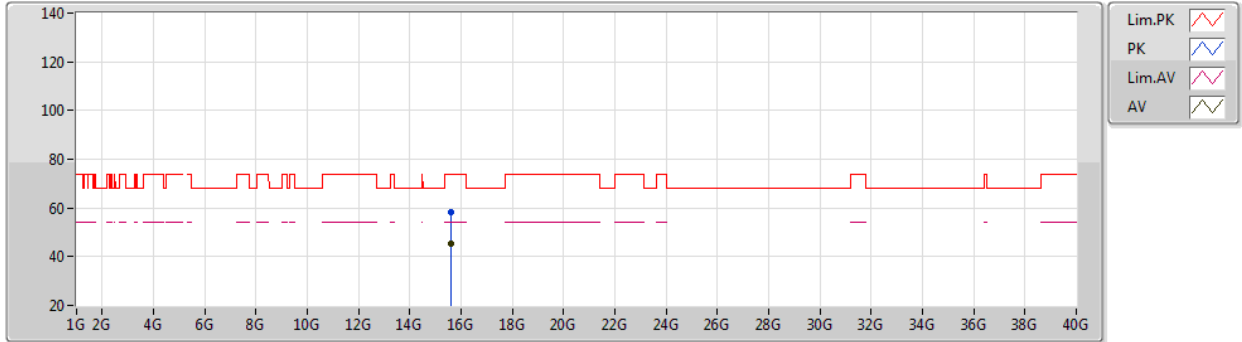
EUT Y_4TX
Setting 69
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	66.16	74.00	-7.84	62.84	3	Horizontal	91	2.10	-	32.60	5.17	34.45
AV	5.15G	53.61	54.00	-0.39	50.29	3	Horizontal	91	2.10	-	32.60	5.17	34.45
PK	5.219G	107.03	Inf	-Inf	103.51	3	Horizontal	91	2.10	-	32.74	5.22	34.44
AV	5.225G	97.79	Inf	-Inf	94.25	3	Horizontal	91	2.10	-	32.75	5.23	34.44
PK	5.452G	57.36	74.00	-16.64	52.98	3	Horizontal	91	2.10	-	33.40	5.40	34.42
AV	5.385G	46.43	54.00	-7.57	42.35	3	Horizontal	91	2.10	-	33.11	5.39	34.42

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5210MHz_TX



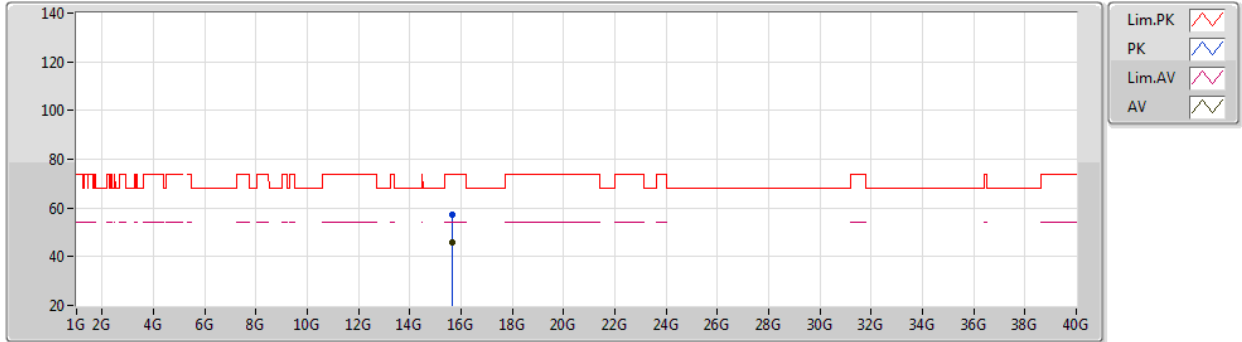
EUT Y_4TX
Setting 69
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.62384G	58.38	74.00	-15.62	45.29	3	Vertical	188	1.67	-	38.32	9.22	34.45
AV	15.62868G	45.49	54.00	-8.51	32.39	3	Vertical	188	1.67	-	38.33	9.23	34.46

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5210MHz_TX



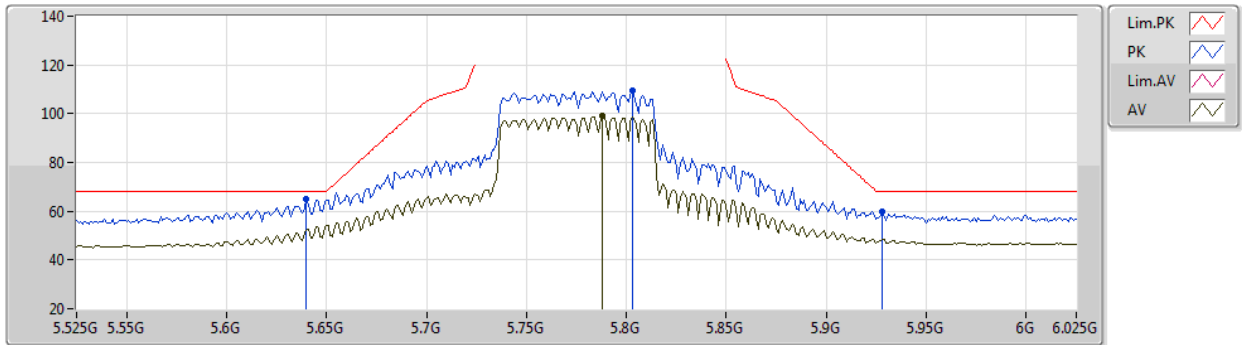
EUT Y_4TX
Setting 69
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.63688G	57.49	74.00	-16.51	44.39	3	Horizontal	347	1.44	-	38.34	9.23	34.47
AV	15.63464G	45.71	54.00	-8.29	32.61	3	Horizontal	347	1.44	-	38.33	9.23	34.46

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5775MHz_TX



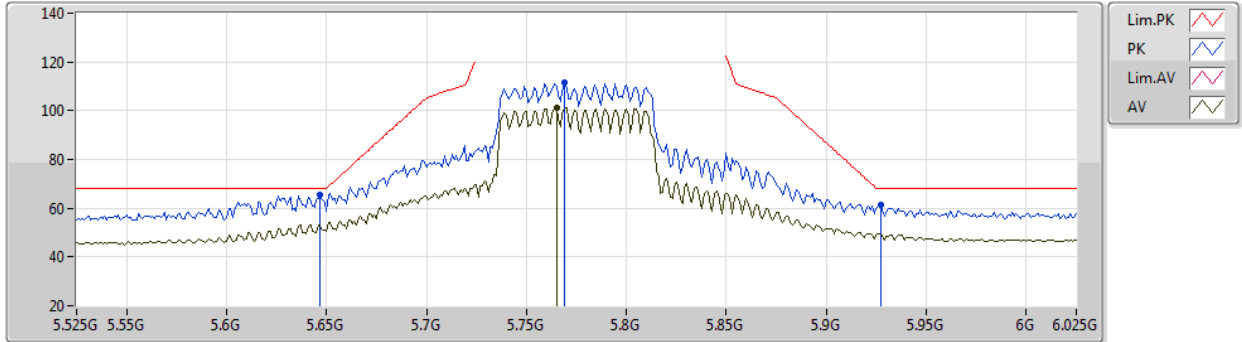
EUT Y_4TX
Setting 94
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.64G	65.10	68.20	-3.10	60.26	3	Vertical	120	1.80	-	33.88	5.42	34.46
PK	5.803G	109.58	Inf	-Inf	104.28	3	Vertical	120	1.80	-	34.31	5.50	34.51
AV	5.788G	99.30	Inf	-Inf	94.07	3	Vertical	120	1.80	-	34.25	5.49	34.51
PK	5.928G	60.07	68.20	-8.13	54.22	3	Vertical	120	1.80	-	34.91	5.50	34.56

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5775MHz_TX



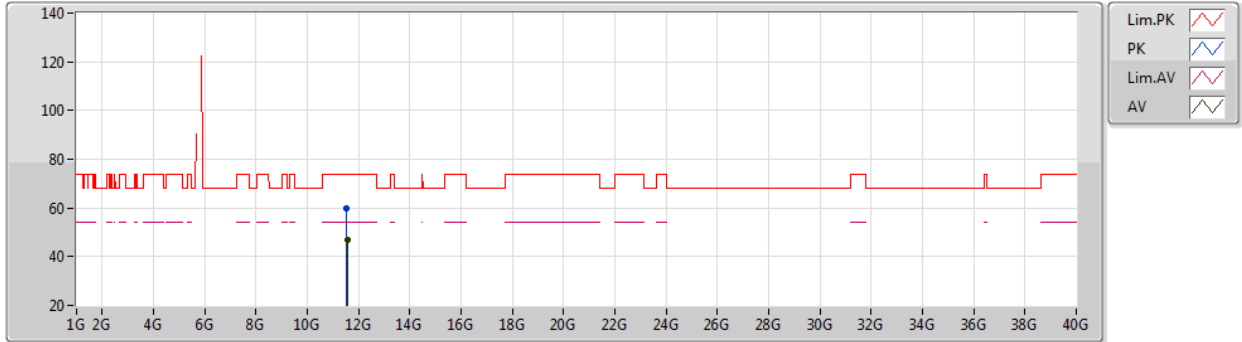
EUT Y_4TX
Setting 94
01-F-G-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.647G	65.30	68.20	-2.90	60.45	3	Horizontal	94	2.35	-	33.89	5.42	34.46
PK	5.769G	111.32	Inf	-Inf	106.16	3	Horizontal	94	2.35	-	34.18	5.48	34.50
AV	5.765G	101.22	Inf	-Inf	96.08	3	Horizontal	94	2.35	-	34.16	5.48	34.50
PK	5.927G	61.28	68.20	-6.92	55.43	3	Horizontal	94	2.35	-	34.91	5.50	34.56

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5775MHz_TX



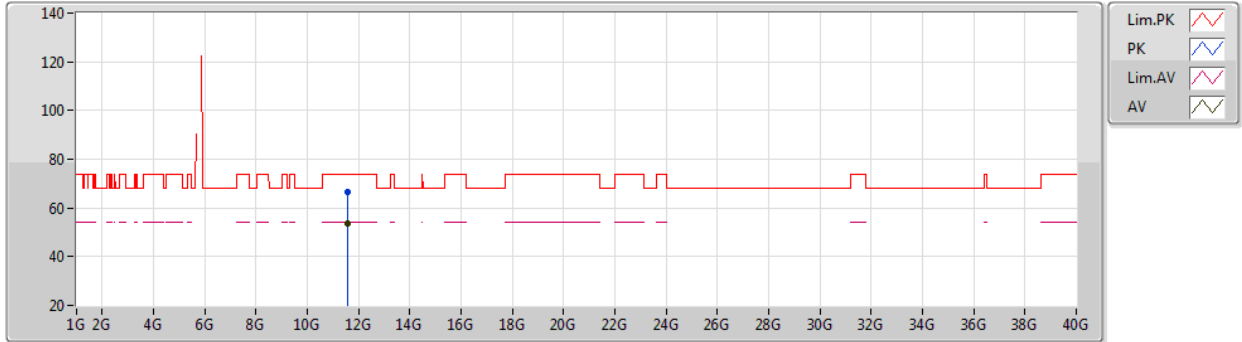
EUT Y_4TX
Setting 94
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.54724G	59.62	74.00	-14.38	47.86	3	Vertical	276	1.40	-	38.40	7.84	34.48
AV	11.55708G	46.72	54.00	-7.28	34.96	3	Vertical	276	1.40	-	38.40	7.84	34.48

802.11ac VHT80_Nss1,(MCS0)_4TX

06/03/2021

5775MHz_TX



EUT V_4TX
Setting 94
01-F-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.55228G	66.62	74.00	-7.38	54.86	3	Horizontal	267	1.24	-	38.40	7.84	34.48
AV	11.55212G	53.70	54.00	-0.30	41.94	3	Horizontal	267	1.24	-	38.40	7.84	34.48



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.06248G	23.41	54.00	-30.59	Vertical

