

FCC Test Report

Equipment : DOCSIS Cable Gateway
Brand Name : Technicolor
Model No. : CGM4140COM, CGM4141COX
FCC ID : G95CGM414X
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant / Manufacturer : Technicolor Connected Home USA LLC
5030 Sugarloaf Parkway, Building 6 , Lawrenceville
Georgia, United States, 30044
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client
TPC Function : TPC

The product sample received on Mar. 28, 2017 and completely tested on May 12, 2017. We, SPORTON, 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., the test report shall not be reproduced except in full.


Phoenix Chen
SPORTON INTERNATIONAL INC.





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Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied



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FCC ID: G95CGM414X

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5.15-5.25GHz	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5.725-5.85GHz		5745-5825	149-165 [5]
5.15-5.25GHz	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5.725-5.85GHz		5755-5795	151-159 [2]
5.15-5.25GHz	ac (VHT80)	5210	42 [1]
5.725-5.85GHz		5775	155 [1]

Non-Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.15-5.25GHz	802.11n HT20	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11n HT40	40	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11a	20	8TX
5.725-5.85GHz	802.11n HT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11n HT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX

Non-Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11n HT20	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11n HT40	40	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11n HT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11n HT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX

Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	8TX
5.15-5.25GHz	802.11ac VHT40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT80-BF	80	8TX
5.725-5.85GHz	802.11ac VHT20-BF	20	8TX
5.725-5.85GHz	802.11ac VHT40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT80-BF	80	8TX

Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	8TX
5.15-5.25GHz	802.11ac VHT40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT80-BF	80	8TX
5.725-5.85GHz	802.11ac VHT20-BF	20	8TX
5.725-5.85GHz	802.11ac VHT40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT80-BF	80	8TX

Note:

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

1.1.2 Antenna Information

Antenna gain list for PSD and BF

Mode/ Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
8T1S	9.30	8.09	9.70
8T2S	6.60	5.90	6.70

Antenna gain list for Power

Mode/ Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
1&2	3.20	2.64	2.50
5&6	3.40	2.45	3.20
3&4	1.50	2.63	2.50
7&8	3.50	2.82	3.40

Note:

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

1.1.3 EUT Information

Identify EUT			
SW / HW		N/A	
Operational Condition			
EUT Power Type		From AC Adapter	
Beamforming Function	☒	With beamforming	☐ Without beamforming
Weather Band	☐	With 5600~5650MHz	☒ Without 5600~5650MHz
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
☐	Other:		

1.1.4 Mode Test Duty Cycle
Non-Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.928	0.325	567.5u	3k
802.11ac VHT20	0.983	0.074	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.967	0.146	1.24m	1k
802.11ac VHT80	0.932	0.306	600u	3k

Non-Beamforming – NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20	0.983	0.074	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.967	0.146	1.24m	1k
802.11ac VHT80	0.932	0.306	600u	3k

Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.872	0.595	3.458m	300
802.11ac VHT40-BF	0.832	0.799	1.687m	1k
802.11ac VHT80-BF	0.916	0.381	3.062m	1k

Beamforming - NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.842	0.747	4.288m	300
802.11ac VHT40-BF	0.815	0.888	2.087m	1k
802.11ac VHT80-BF	0.91	0.41	2.878m	1k

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v01r04
- ♦ KDB 644545 D03 v01
- ♦ KDB 662911 D01 v02r01
- ♦ ANSI C63.4-2014

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. 553509 with FCC.			
☒	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Gary	23.5°C / 65%	31/Mar/2017
Radiated <Below 1G>	03CH01-CB	Mason	22°C / 54%	12/May/2017
Radiated <Above 1G>	03CH03-HY	Jeff	25.2°C / 57%	01/Apr/2017
AC Conduction	CO01-CB	Kane	24°C / 55%	12/May/2017

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	Dos
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Non-Beamforming – NSS1

Mode	Power Setting
802.11a_(6Mbps)_8TX	-
5180MHz	19/19
5200MHz	19/19
5240MHz	19/19
5745MHz	22/22
5785MHz	22/22
5825MHz	22/22
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5180MHz	19/19
5200MHz	19/19
5240MHz	19/19
5745MHz	22/22
5785MHz	22/22
5825MHz	22/22
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5190MHz	17/17
5230MHz	21/21
5755MHz	21/21
5795MHz	21/21
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5210MHz	18/18
5775MHz	21/21

**Non-Beamforming – NSS2**

Mode	Power Setting
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5180MHz	22/22
5200MHz	22/22
5240MHz	22/22
5745MHz	22/22
5785MHz	22/22
5825MHz	22/22
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5190MHz	18/18
5230MHz	21/21
5755MHz	22/22
5795MHz	22/22
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5210MHz	18/18
5775MHz	22/22



Test Software	putty , iperf
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Beamforming – NSS1

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-
5180MHz	18/18
5200MHz	18/18
5240MHz	18/18
5745MHz	19/20
5785MHz	19/19
5825MHz	19/19
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-
5190MHz	18/18
5230MHz	18/18
5755MHz	18/18
5795MHz	17/18
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-
5210MHz	19/19
5775MHz	19/19

Beamforming – NSS2

Mode	Power Setting
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-
5180MHz	21/20
5200MHz	21/20
5240MHz	21/20
5745MHz	22/22
5785MHz	21/20
5825MHz	20/19
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-
5190MHz	21/21
5230MHz	21/21
5755MHz	22/21
5795MHz	21/22
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-
5210MHz	21/21
5775MHz	22/22

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal link
1	Adapter mode

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

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

2.4 Accessories

Accessories				
Power Cable	Power Cord	1.5 meter, non-shielded cable	In/Out door	indoor

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

2.5 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E6400	Doc
2	Adapter for NB	DELL	HA65NM130	Doc

Support Equipment – Radiated Emission - Below 1G				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PC1 (CMTS sever)	Lemel	WLI915G4D	Doc
2	D3.0 CMTS	CASA	C10G	Doc
3	IXIA	IXIA	XM2	Doc
4	MoCA2.0 Client	Entropic	MoCA2.0 ECB	Doc
5	2.4G WiFi Client	Netgear	R6300	Doc
6	5G WiFi Client	technicolor	TG234	Doc

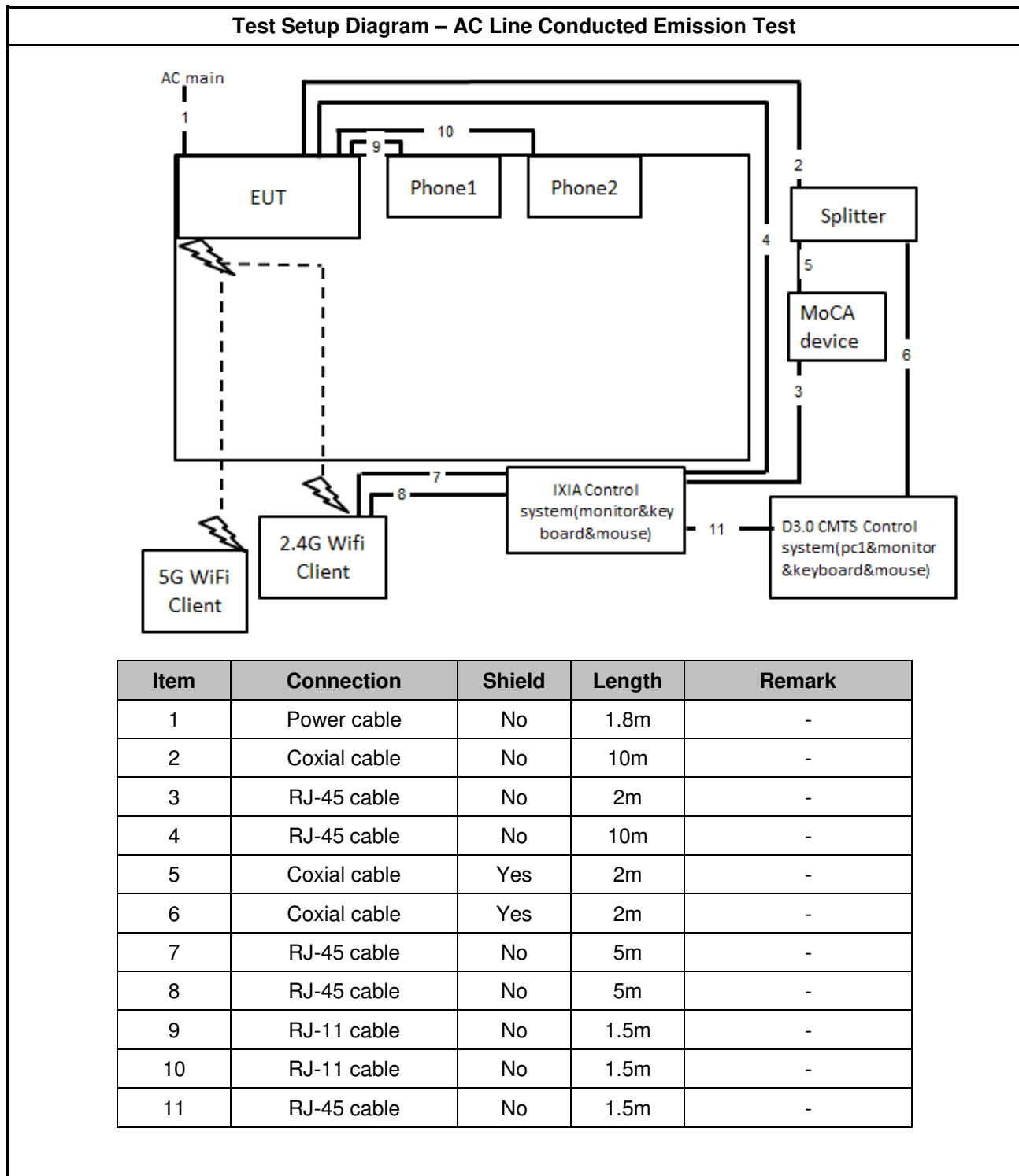
Support Equipment – Radiated Emission - Above 1G				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Client	-	-	Doc
2	Notebook	DELL	E5530	Doc
3	Adapter for NB	DELL	L90PM111	Doc

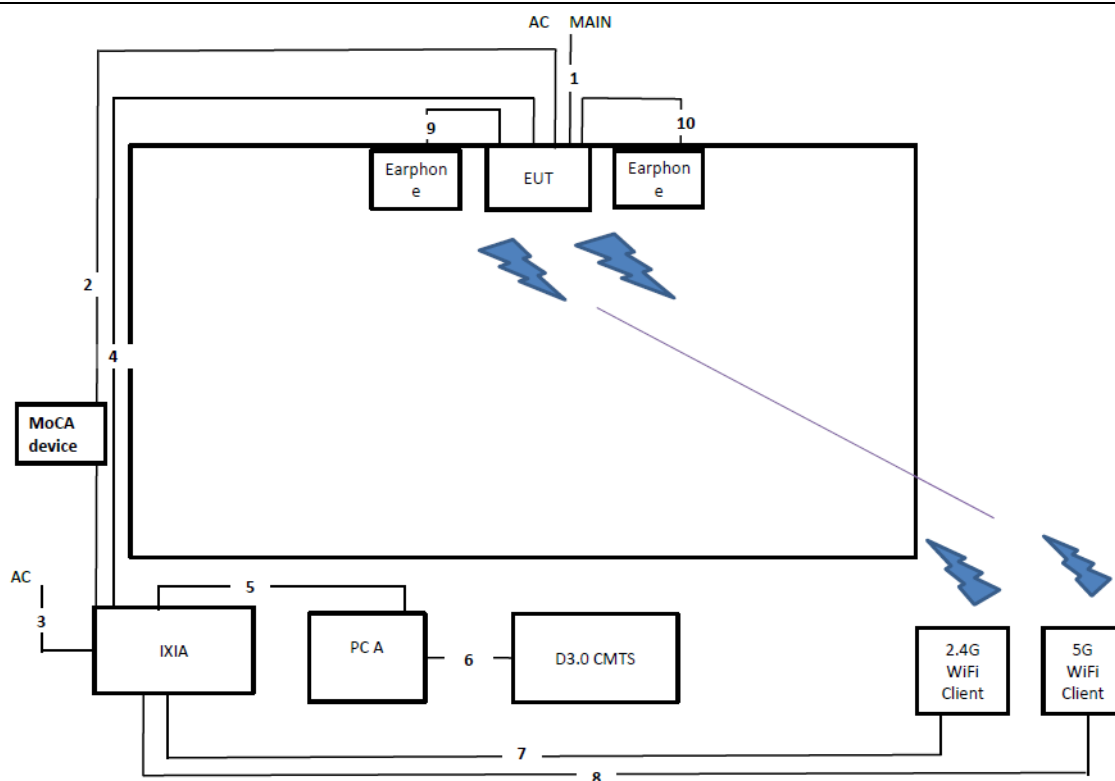
Note.Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PC1 (CMTS sever)	Lemel	WLI915G4D	Doc
2	D3.0 CMTS	CASA	C10G	Doc
3	IXIA	IXIA	XM2	Doc
4	MoCA2.0 Client	Entropic	MoCA2.0 ECB	Doc
5	2.4G WiFi Client	Netgear	R6300	Doc
6	5G WiFi Client	technicolor	TG234	Doc
7	Phone	PHILIPS	M20	Doc
8	Phone	PHILIPS	M20	Doc

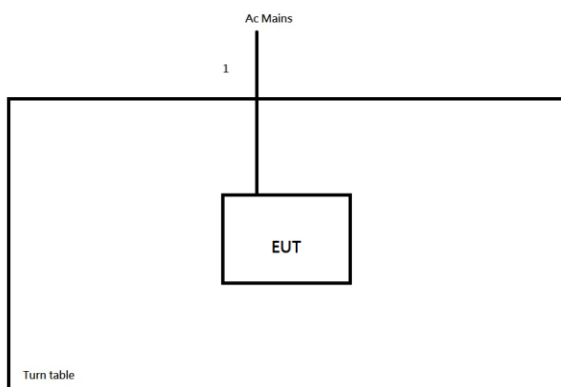
Note.Support equipment No.1~5 was provided by customer.

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test – Below 1G


Item	Connection	Shielded	Length(m)	Remark
1	Power cable	No	1.8m	-
2	RJ-45 cable	No	10m	-
3	Power cable	No	1.8m	-
4	RJ-45 cable	No	10m	-
5	RJ-45 cable	No	2m	-
6	RJ-45 cable	No	2m	-
7	RJ-45 cable	No	5m	-
8	RJ-45 cable	No	5m	-
9	RJ-11 cable	No	1.5m	-
10	RJ-11 cable	No	1.5m	-

Test Setup Diagram - Radiated Test – Above 1G


Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.7m	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

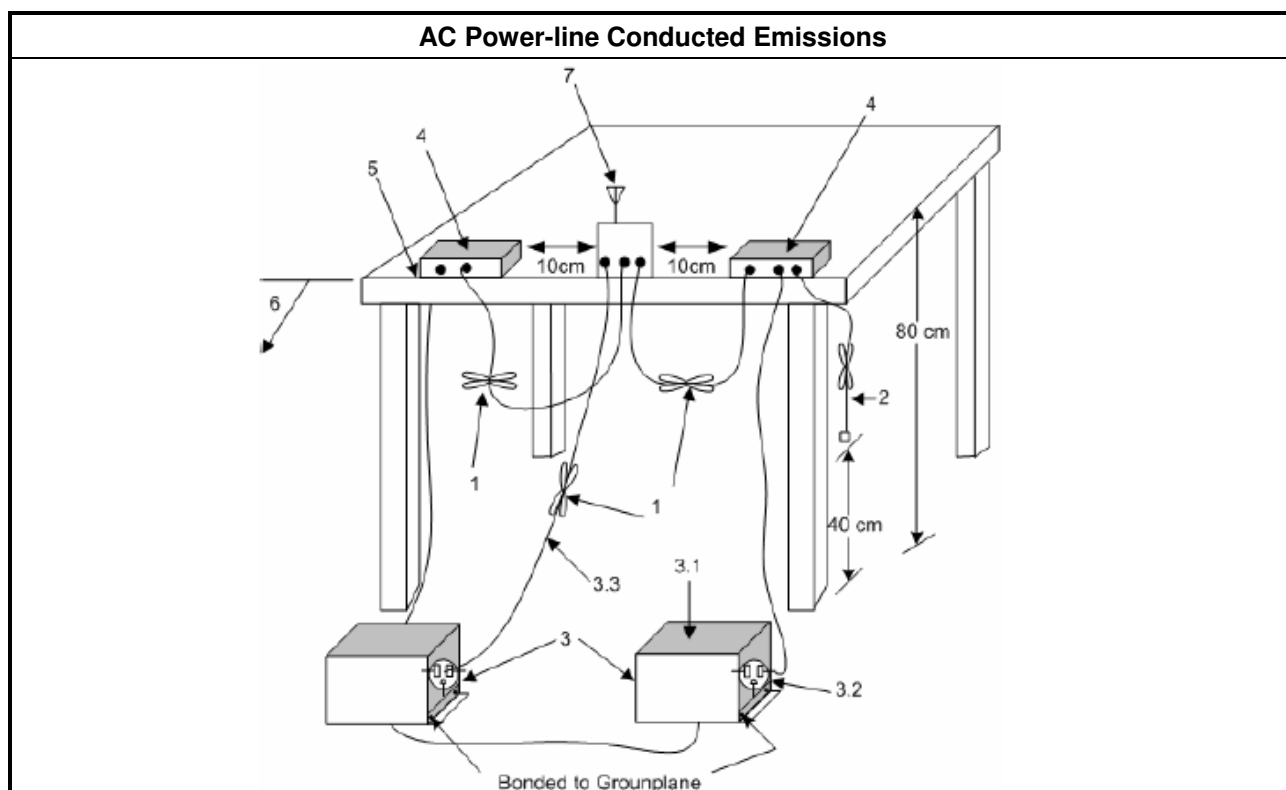
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

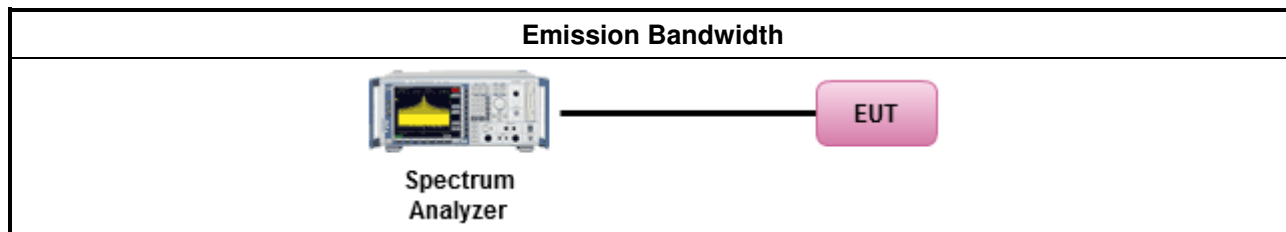
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 6.6 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	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

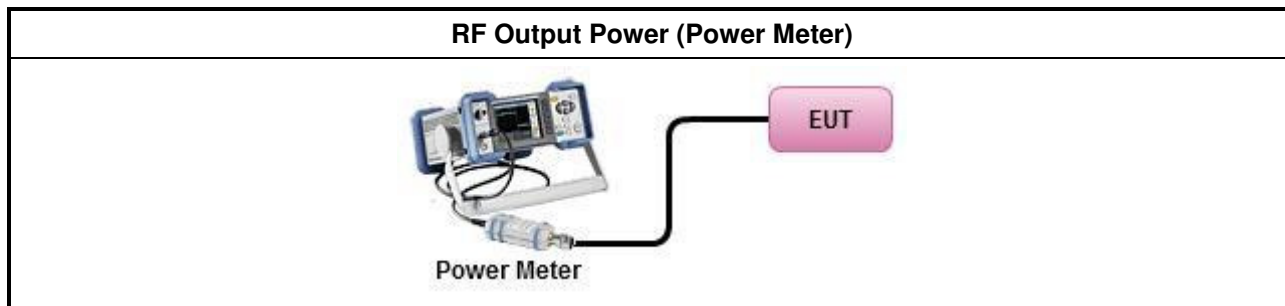
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

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

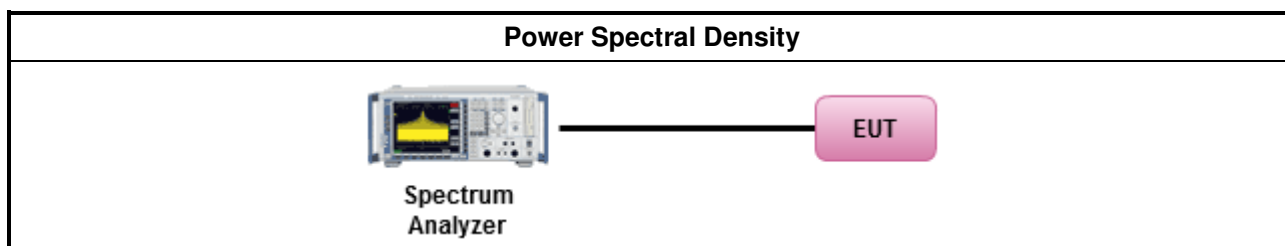
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

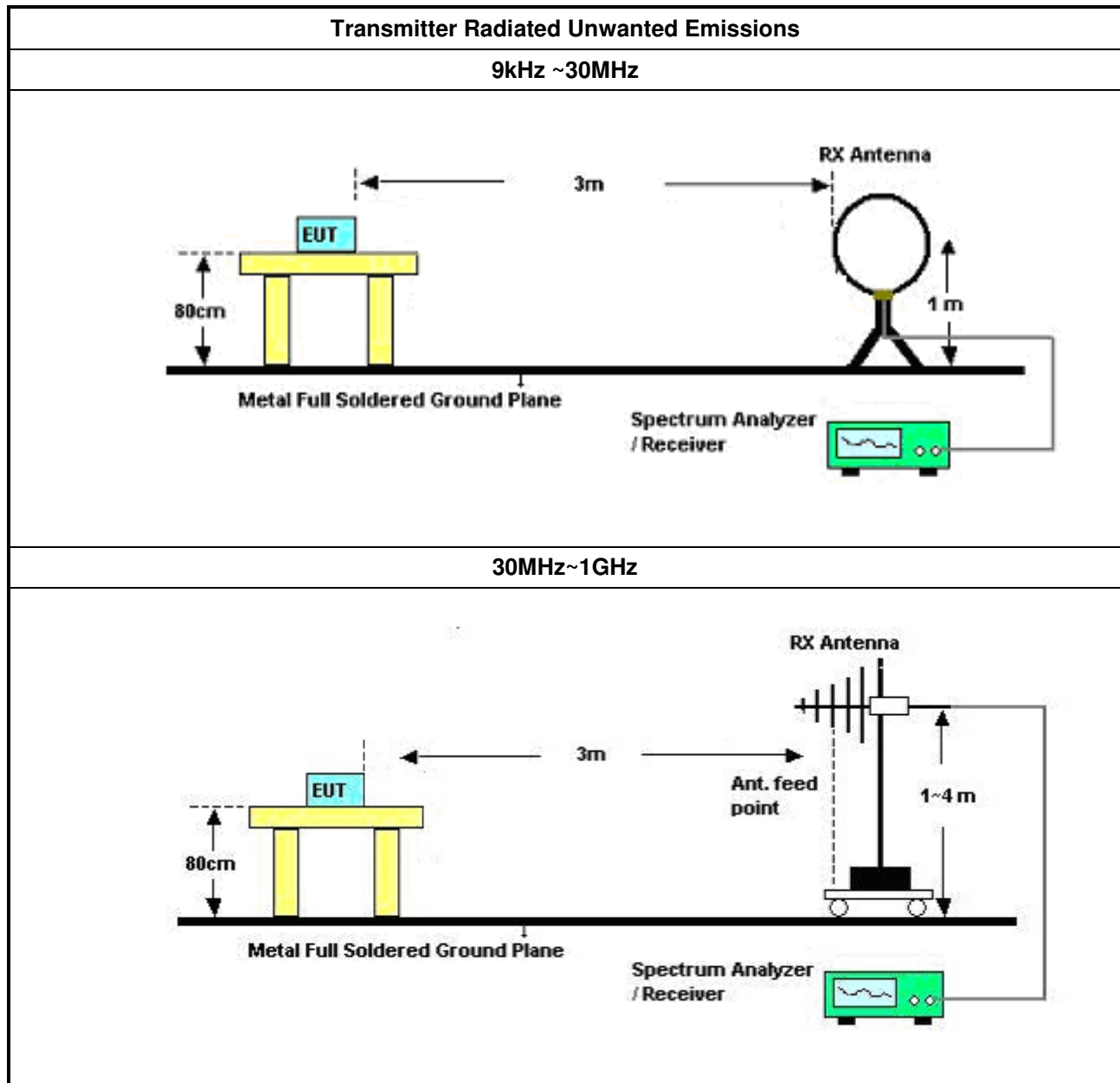
3.5.2 Measuring Instruments

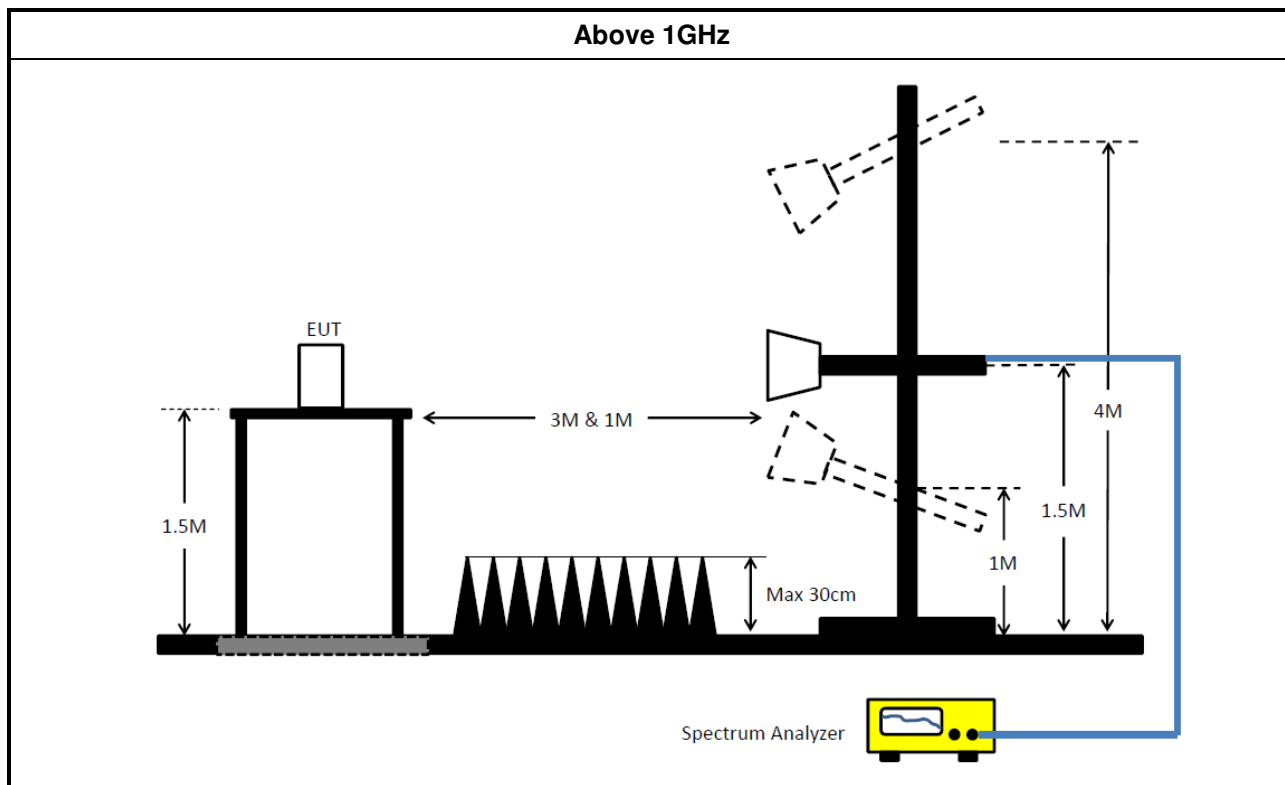
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	

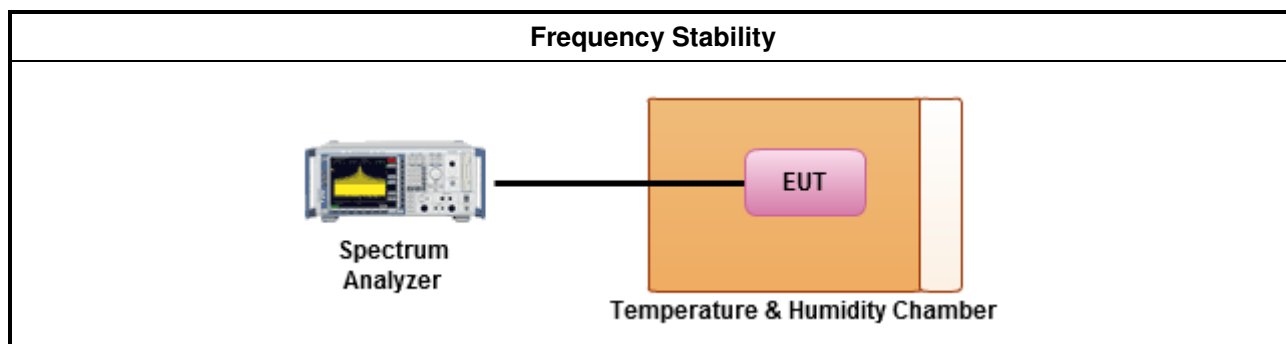
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
▪	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
▪	Frequency stability with respect to ambient temperature
▪	Frequency stability when varying supply voltage

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	23/Jan/2017	22/Jan/2018
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	14/Dec/2016	13/Dec/2017
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	21/Dec/2016	20/Dec/2017

Instrument for Radiated Test –Below 1G

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	30/Aug/2016	29/Aug/2017
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	13/Mar/2017	12/Mar/2018
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	22/Nov/2016	21/Nov/2017
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	24/Oct/2016	23/Oct/2017
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	N/A

Instrument for Radiated Test –Non-Beamforming Above 1G

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/Nov/2016	27/Nov/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/Dec/2016	15/Dec/2017
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	10/May/2016	09/May/2017
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	29/Aug/2016	28/Aug/2017
Spectrum	R&S	FSV40	101515	9kHz ~ 40GHz	28/Nov/2016	27/Nov/2017
Bilog Antenna	SCHAFFNER	CBL 6112D	2723	30MHz ~ 1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	22/Apr/2016	21/Apr/2017
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Amplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	02/Jun/2015	01/Jun/2017
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	02/Mar/2017	01/Mar/2018
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	28/Oct/2016	27/Oct/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	27/Oct/2016	26/Oct/2017

**Instrument for Radiated Test –Beamforming Above 1G**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	03/Jun/2016	02/Jun/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	01/Jul/2016	30/Jun/2017
Amplifier	Agilent	8449B	3008A02373	1GHz-26.5GHz	02/Sep/2016	01/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01543	1GHz-18GHz	22/Apr/2016	21/Apr/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170339	15GHz-40GHz	10/Mar/2016	09/Mar/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz-40GHz	01/Jun/2015	31/May/2017
Loop Antenna	TESEQ	HLA 6120	24155	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018

**Instrument for Conducted Test- Non-Beamforming-NSS1**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/ 2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100℃	21/Nov/2016	20/Nov/2017
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	04/Jun/2016	03/Jun/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12582/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

Instrument for Conducted Test- Non-Beamforming-NSS2

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/ 2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100℃	21/Nov/2016	20/Nov/2017
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	04/Jun/2016	03/Jun/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12582/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

**Instrument for Conducted Test- Beamforming-NSS1**

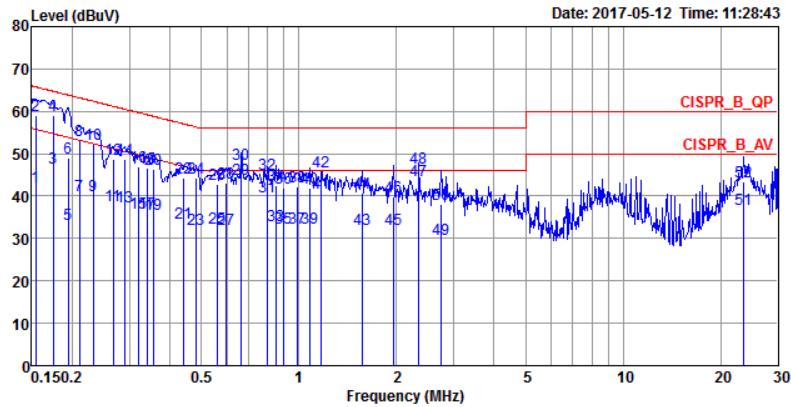
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	31/Dec/2016	30/Dec/ 2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10711/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10714/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10714/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10715/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10716/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10718/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10719/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10722/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10723/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10720/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10721/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10724/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10725/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

**Instrument for Conducted Test- Beamforming-NSS2**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	31/Dec/2016	30/Dec/ 2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10711/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10714/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10714/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10715/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10716/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10718/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10719/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10722/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10723/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10720/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10721/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10724/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10725/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1540	42.33	-13.45	55.78	32.07	10.10	0.16	Average	NEUTRAL
2	0.1540	59.04	-6.74	65.78	48.78	10.10	0.16	QP	NEUTRAL
3	0.1749	46.68	-8.04	54.72	36.49	10.01	0.18	Average	NEUTRAL
4	0.1749	59.06	-5.66	64.72	48.87	10.01	0.18	QP	NEUTRAL
5	0.1945	33.35	-20.49	53.84	23.15	10.01	0.19	Average	NEUTRAL
6	0.1945	49.09	-14.75	63.84	38.89	10.01	0.19	QP	NEUTRAL
7	0.2106	40.16	-13.02	53.18	29.93	10.05	0.18	Average	NEUTRAL
8	0.2106	53.23	-9.95	63.18	43.00	10.05	0.18	QP	NEUTRAL
9	0.2316	40.11	-12.28	52.39	29.91	10.05	0.15	Average	NEUTRAL
10	0.2316	52.16	-10.23	62.39	41.96	10.05	0.15	QP	NEUTRAL
11	0.2672	37.71	-13.49	51.20	27.48	10.12	0.11	Average	NEUTRAL
12	0.2672	48.66	-12.54	61.20	38.43	10.12	0.11	QP	NEUTRAL
13	0.2909	37.39	-13.11	50.50	27.18	10.12	0.09	Average	NEUTRAL
14	0.2909	48.60	-11.90	60.50	38.39	10.12	0.09	QP	NEUTRAL
15	0.3200	35.92	-13.79	49.71	25.70	10.15	0.07	Average	NEUTRAL
16	0.3200	46.88	-12.83	59.71	36.66	10.15	0.07	QP	NEUTRAL
17	0.3410	36.07	-13.11	49.18	25.83	10.19	0.05	Average	NEUTRAL
18	0.3410	46.74	-12.44	59.18	36.50	10.19	0.05	QP	NEUTRAL
19	0.3558	35.58	-13.25	48.83	25.32	10.22	0.04	Average	NEUTRAL
20	0.3558	46.21	-12.62	58.83	35.95	10.22	0.04	QP	NEUTRAL
21	0.4421	33.68	-13.34	47.02	23.34	10.25	0.09	Average	NEUTRAL

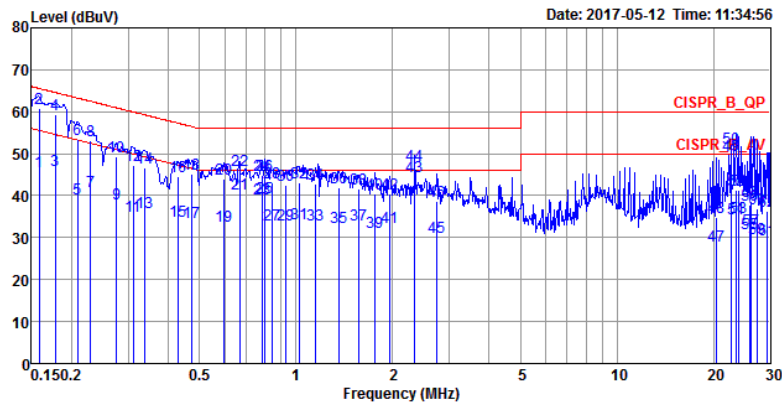
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

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

AC Power-line Conducted Emissions Result									
Operating Mode	1					Power Phase		Neutral	
Operating Function	Adapter mode								
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
22	0.4421	44.43	-12.59	57.02	34.09	10.25	0.09	QP	NEUTRAL
23	0.4837	32.09	-14.18	46.27	21.70	10.23	0.16	Average	NEUTRAL
24	0.4837	44.16	-12.11	56.27	33.77	10.23	0.16	QP	NEUTRAL
25	0.5581	32.35	-13.65	46.00	21.87	10.21	0.27	Average	NEUTRAL
26	0.5581	42.73	-13.27	56.00	32.25	10.21	0.27	QP	NEUTRAL
27	0.5979	32.32	-13.68	46.00	21.80	10.19	0.33	Average	NEUTRAL
28	0.5979	43.24	-12.76	56.00	32.72	10.19	0.33	QP	NEUTRAL
29	0.6648	43.93	-2.07	46.00	33.35	10.17	0.41	Average	NEUTRAL
30	0.6648	47.59	-8.41	56.00	37.01	10.17	0.41	QP	NEUTRAL
31	0.8002	39.75	-6.25	46.00	29.07	10.12	0.56	Average	NEUTRAL
32	0.8002	45.23	-10.77	56.00	34.55	10.12	0.56	QP	NEUTRAL
33	0.8483	33.03	-12.97	46.00	22.33	10.10	0.60	Average	NEUTRAL
34	0.8483	42.36	-13.64	56.00	31.66	10.10	0.60	QP	NEUTRAL
35	0.8992	32.36	-13.64	46.00	21.62	10.08	0.66	Average	NEUTRAL
36	0.8992	41.80	-14.20	56.00	31.06	10.08	0.66	QP	NEUTRAL
37	0.9891	32.42	-13.58	46.00	21.64	10.05	0.73	Average	NEUTRAL
38	0.9891	42.19	-13.81	56.00	31.41	10.05	0.73	QP	NEUTRAL
39	1.0767	32.39	-13.61	46.00	21.68	10.04	0.67	Average	NEUTRAL
40	1.0767	41.92	-14.08	56.00	31.21	10.04	0.67	QP	NEUTRAL
41	1.1719	40.69	-5.31	46.00	30.07	10.03	0.59	Average	NEUTRAL
42	1.1719	45.63	-10.37	56.00	35.01	10.03	0.59	QP	NEUTRAL
43	1.5684	32.10	-13.90	46.00	21.81	9.99	0.30	Average	NEUTRAL
44	1.5684	40.66	-15.34	56.00	30.37	9.99	0.30	QP	NEUTRAL
45	1.9593	32.28	-13.72	46.00	22.25	9.95	0.08	Average	NEUTRAL
46	1.9593	39.98	-16.02	56.00	29.95	9.95	0.08	QP	NEUTRAL
47	2.3460	43.78	-2.22	46.00	33.76	9.95	0.07	Average	NEUTRAL
48	2.3460	46.55	-9.45	56.00	36.53	9.95	0.07	QP	NEUTRAL
49	2.7502	29.91	-16.09	46.00	19.89	9.95	0.07	Average	NEUTRAL
50	2.7502	38.02	-17.98	56.00	28.00	9.95	0.07	QP	NEUTRAL
51	23.5112	36.79	-13.21	50.00	26.11	10.42	0.26	Average	NEUTRAL
52	23.5112	43.52	-16.48	60.00	32.84	10.42	0.26	QP	NEUTRAL
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)									

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.1582	45.83	-9.73	55.56	35.66	10.00	0.17	Average	LINE
2	0.1582	60.84	-4.72	65.56	50.67	10.00	0.17	QP	LINE
3	0.1777	45.93	-8.66	54.59	35.84	9.91	0.18	Average	LINE
4	0.1777	59.38	-5.21	64.59	49.29	9.91	0.18	QP	LINE
5	0.2083	39.18	-14.09	53.27	29.08	9.92	0.18	Average	LINE
6	0.2083	53.45	-9.82	63.27	43.35	9.92	0.18	QP	LINE
7	0.2292	41.02	-11.46	52.48	30.95	9.92	0.15	Average	LINE
8	0.2292	53.07	-9.41	62.48	43.00	9.92	0.15	QP	LINE
9	0.2759	38.05	-12.89	50.94	28.01	9.93	0.11	Average	LINE
10	0.2759	49.26	-11.68	60.94	39.22	9.93	0.11	QP	LINE
11	0.3116	35.24	-14.69	49.93	25.24	9.93	0.07	Average	LINE
12	0.3116	47.21	-12.72	59.93	37.21	9.93	0.07	QP	LINE
13	0.3374	36.04	-13.23	49.27	26.05	9.94	0.05	Average	LINE
14	0.3374	46.75	-12.52	59.27	36.76	9.94	0.05	QP	LINE
15	0.4282	34.07	-13.22	47.29	24.06	9.95	0.06	Average	LINE
16	0.4282	44.49	-12.80	57.29	34.48	9.95	0.06	QP	LINE
17	0.4736	33.59	-12.86	46.45	23.49	9.95	0.15	Average	LINE
18	0.4736	45.06	-11.39	56.45	34.96	9.95	0.15	QP	LINE
19	0.5948	32.81	-13.19	46.00	22.53	9.95	0.33	Average	LINE
20	0.5948	43.88	-12.12	56.00	33.60	9.95	0.33	QP	LINE
21	0.6683	40.42	-5.58	46.00	30.05	9.95	0.42	Average	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result - Co-location									
Operating Mode	1				Power Phase			Line	
Operating Function	Adapter mode								
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
22	0.6683	46.09	-9.91	56.00	35.72	9.95	0.42	QP	LINE
23	0.7835	39.17	-6.83	46.00	28.66	9.96	0.55	Average	LINE
24	0.7835	44.97	-11.03	56.00	34.46	9.96	0.55	QP	LINE
25	0.8002	39.45	-6.55	46.00	28.93	9.96	0.56	Average	LINE
26	0.8002	44.99	-11.01	56.00	34.47	9.96	0.56	QP	LINE
27	0.8438	33.14	-12.86	46.00	22.58	9.96	0.60	Average	LINE
28	0.8438	43.11	-12.89	56.00	32.55	9.96	0.60	QP	LINE
29	0.9331	32.97	-13.03	46.00	22.33	9.96	0.68	Average	LINE
30	0.9331	42.39	-13.61	56.00	31.75	9.96	0.68	QP	LINE
31	1.0211	33.33	-12.67	46.00	22.65	9.96	0.72	Average	LINE
32	1.0211	43.04	-12.96	56.00	32.36	9.96	0.72	QP	LINE
33	1.1473	33.09	-12.91	46.00	22.53	9.96	0.60	Average	LINE
34	1.1473	42.66	-13.34	56.00	32.10	9.96	0.60	QP	LINE
35	1.3593	32.58	-13.42	46.00	22.18	9.96	0.44	Average	LINE
36	1.3593	42.06	-13.94	56.00	31.66	9.96	0.44	QP	LINE
37	1.5684	33.16	-12.84	46.00	22.90	9.96	0.30	Average	LINE
38	1.5684	41.69	-14.31	56.00	31.43	9.96	0.30	QP	LINE
39	1.7623	31.30	-14.70	46.00	21.16	9.96	0.18	Average	LINE
40	1.7623	40.51	-15.49	56.00	30.37	9.96	0.18	QP	LINE
41	1.9593	32.61	-13.39	46.00	22.57	9.96	0.08	Average	LINE
42	1.9593	40.32	-15.68	56.00	30.28	9.96	0.08	QP	LINE
43	2.3460	44.60	-1.40	46.00	34.57	9.96	0.07	Average	LINE
44	2.3460	47.32	-8.68	56.00	37.29	9.96	0.07	QP	LINE
45	2.7502	30.22	-15.78	46.00	20.19	9.96	0.07	Average	LINE
46	2.7502	38.56	-17.44	56.00	28.53	9.96	0.07	QP	LINE
47	20.3773	28.06	-21.94	50.00	17.47	10.35	0.24	Average	LINE
48	20.3773	34.81	-25.19	60.00	24.22	10.35	0.24	QP	LINE
49	22.6551	49.56	-0.44	50.00	38.91	10.39	0.26	Average	LINE
50	22.6551	51.39	-8.61	60.00	40.74	10.39	0.26	QP	LINE
51	23.5112	34.44	-15.56	50.00	23.78	10.40	0.26	Average	LINE
52	23.5112	41.33	-18.67	60.00	30.67	10.40	0.26	QP	LINE
53	23.8878	34.70	-15.30	50.00	24.03	10.41	0.26	Average	LINE
54	23.8878	41.43	-18.57	60.00	30.76	10.41	0.26	QP	LINE
55	25.8638	30.87	-19.13	50.00	20.14	10.45	0.28	Average	LINE
56	25.8638	37.86	-22.14	60.00	27.13	10.45	0.28	QP	LINE
57	26.2782	31.91	-18.09	50.00	21.18	10.45	0.28	Average	LINE
58	26.2782	38.79	-21.21	60.00	28.06	10.45	0.28	QP	LINE
59	27.4160	29.95	-20.05	50.00	19.18	10.47	0.30	Average	LINE
60	27.4160	36.76	-23.24	60.00	25.99	10.47	0.30	QP	LINE
61	29.3709	29.47	-20.53	50.00	18.65	10.51	0.31	Average	LINE
62	29.3709	36.27	-23.73	60.00	25.45	10.51	0.31	QP	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_8TX	-	-	-	-	-
5.15-5.25GHz	23.6M	16.875M	16M9D1D	22.4M	16.675M
5.725-5.85GHz	16.375M	17.05M	17M0D1D	15.925M	16.725M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	28.5M	18.05M	18M0D1D	24.25M	17.9M
5.725-5.85GHz	17.8M	18.075M	18M1D1D	17.55M	17.875M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	56.8M	36.8M	36M8D1D	43.55M	36.45M
5.725-5.85GHz	36.4M	36.95M	36M9D1D	35.4M	36.55M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	87.3M	75.7M	75M7D1D	85.8M	75.5M
5.725-5.85GHz	76M	75.7M	75M7D1D	72.8M	75.4M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



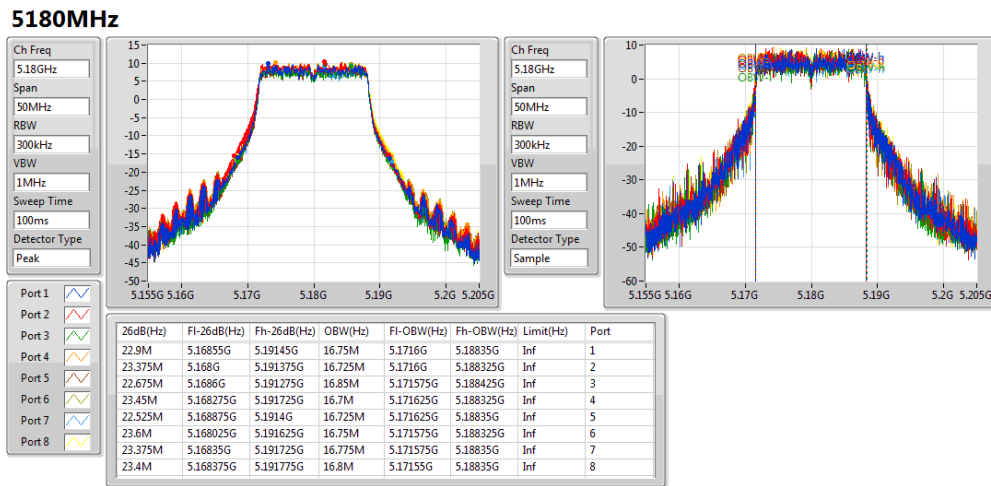
Result

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)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.9M	16.75M	23.375M	16.725M	22.675M	16.85M	23.45M	16.7M	22.525M	16.725M	23.6M	16.75M	23.375M	16.775M	23.4M	16.8M
5200MHz	Pass	Inf	22.9M	16.8M	23.3M	16.8M	22.7M	16.825M	23.4M	16.8M	22.45M	16.675M	23.575M	16.7M	23.425M	16.675M	23.375M	16.8M
5240MHz	Pass	Inf	22.825M	16.775M	23.325M	16.875M	22.55M	16.85M	23.45M	16.75M	22.4M	16.725M	23.6M	16.725M	23.325M	16.75M	23.5M	16.75M
5745MHz	Pass	500k	16.325M	16.825M	16.325M	16.825M	16.325M	16.8M	16.35M	16.725M	16.375M	16.8M	16.325M	16.9M	16.325M	16.75M	16.3M	16.825M
5785MHz	Pass	500k	16.325M	16.975M	16.325M	16.725M	16.35M	16.85M	16.375M	16.775M	16.35M	16.85M	16.35M	17M	16.3M	16.75M	16.325M	16.8M
5825MHz	Pass	500k	16.3M	16.975M	16.275M	16.875M	16.325M	16.875M	16.325M	16.85M	16.325M	16.75M	16.3M	17.05M	15.925M	16.725M	16.35M	16.9M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	25.35M	17.95M	24.825M	17.95M	25.325M	17.975M	25.725M	17.9M	27.175M	18M	28.5M	17.925M	24.725M	18.05M	26.25M	17.925M
5200MHz	Pass	Inf	24.925M	17.925M	24.55M	17.975M	24.55M	17.95M	25.425M	17.975M	25.05M	17.925M	25.55M	17.975M	24.25M	17.925M	24.625M	17.975M
5240MHz	Pass	Inf	24.95M	17.95M	24.325M	17.975M	24.55M	17.9M	24.825M	18M	24.775M	17.925M	25.1M	18M	24.45M	17.925M	24.375M	17.9M
5745MHz	Pass	500k	17.625M	17.95M	17.575M	18M	17.6M	18M	17.575M	17.925M	17.575M	17.9M	17.7M	18.075M	17.575M	17.95M	17.625M	17.95M
5785MHz	Pass	500k	17.575M	17.925M	17.8M	18.025M	17.625M	18.025M	17.575M	17.95M	17.6M	17.95M	17.725M	18.05M	17.8M	18.05M	17.575M	17.9M
5825MHz	Pass	500k	17.575M	18M	17.6M	17.925M	17.6M	18.025M	17.6M	17.925M	17.55M	17.875M	17.75M	18.025M	17.675M	18M	17.6M	17.875M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.85M	36.65M	43.55M	36.45M	43.7M	36.6M	43.85M	36.5M	43.75M	36.6M	44M	36.55M	43.7M	36.55M	43.65M	36.65M
5230MHz	Pass	Inf	46.65M	36.7M	52.5M	36.7M	50.7M	36.8M	51.2M	36.7M	46.4M	36.65M	56.8M	36.75M	50.7M	36.65M	55.3M	36.7M
5755MHz	Pass	500k	36.3M	36.75M	36.3M	36.65M	36.4M	36.7M	36.3M	36.55M	36.35M	36.6M	36.3M	36.95M	35.45M	36.6M	36.25M	36.7M
5795MHz	Pass	500k	36.3M	36.85M	35.7M	36.55M	36.3M	36.55M	36.35M	36.75M	36.3M	36.8M	36.3M	36.85M	35.4M	36.7M	36.35M	36.75M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	87.1M	75.7M	85.8M	75.5M	86.1M	75.7M	87.1M	75.6M	87M	75.7M	87.3M	75.6M	86.4M	75.7M	86.3M	75.7M
5775MHz	Pass	500k	72.8M	75.5M	75.5M	75.6M	72.9M	75.6M	75.3M	75.7M	75.6M	75.6M	76M	75.6M	72.8M	75.4M	75.4M	75.5M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

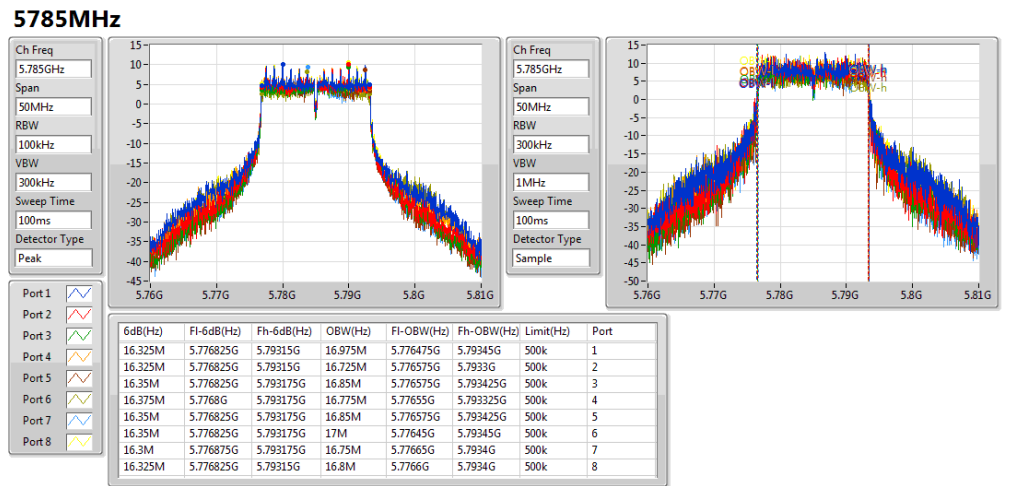
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EBW



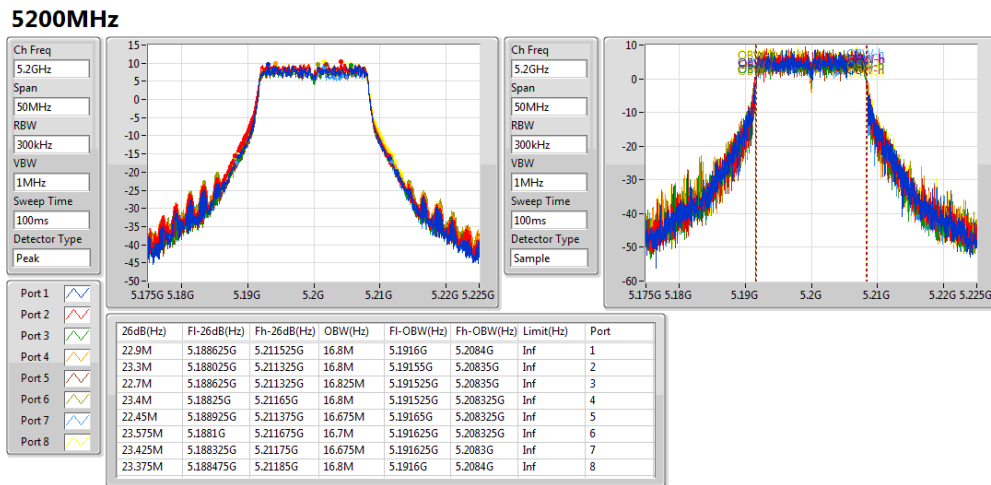
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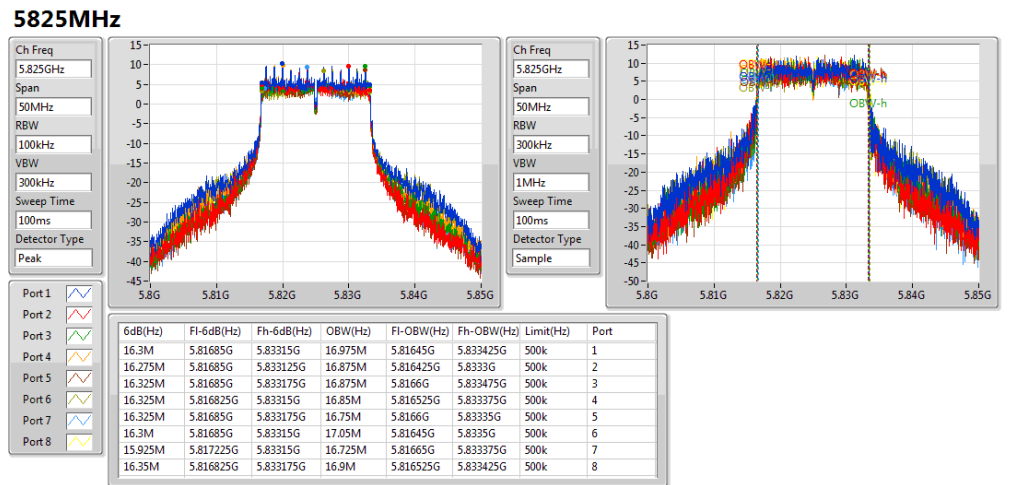
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EBW



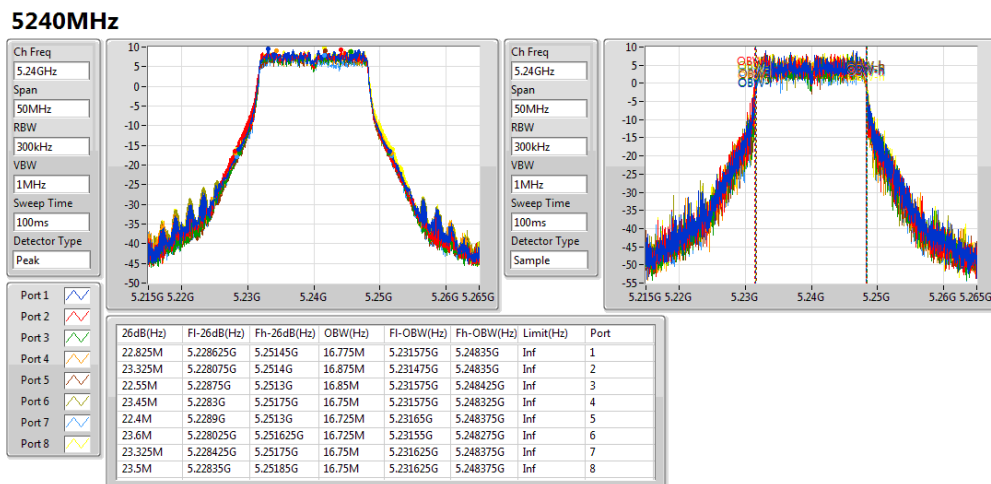
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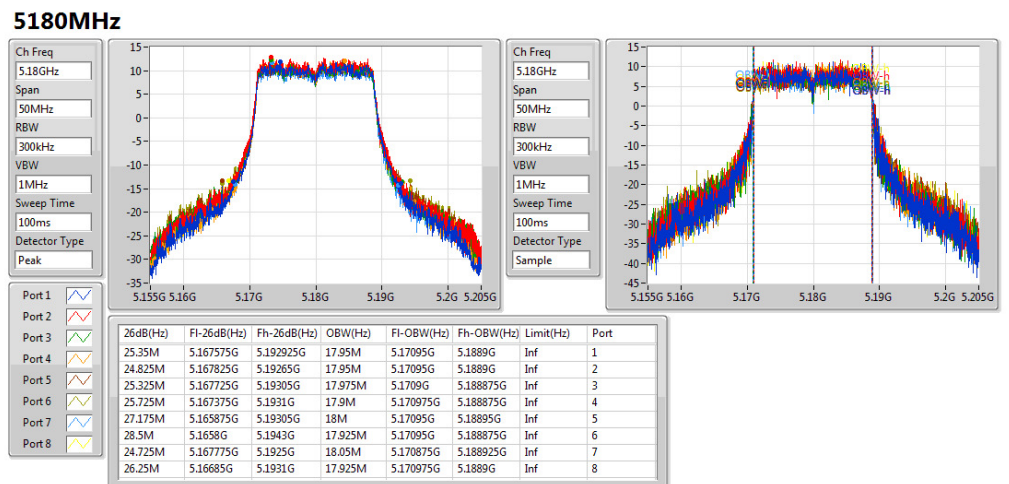
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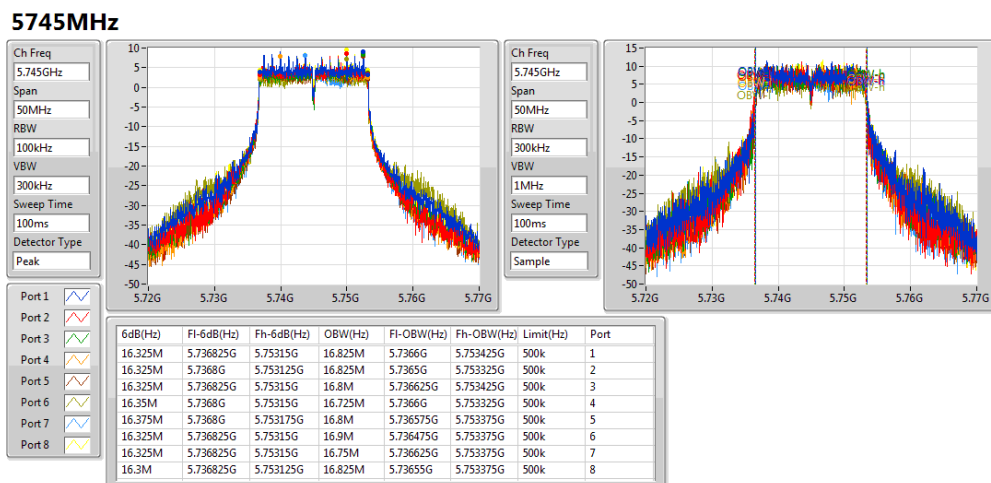
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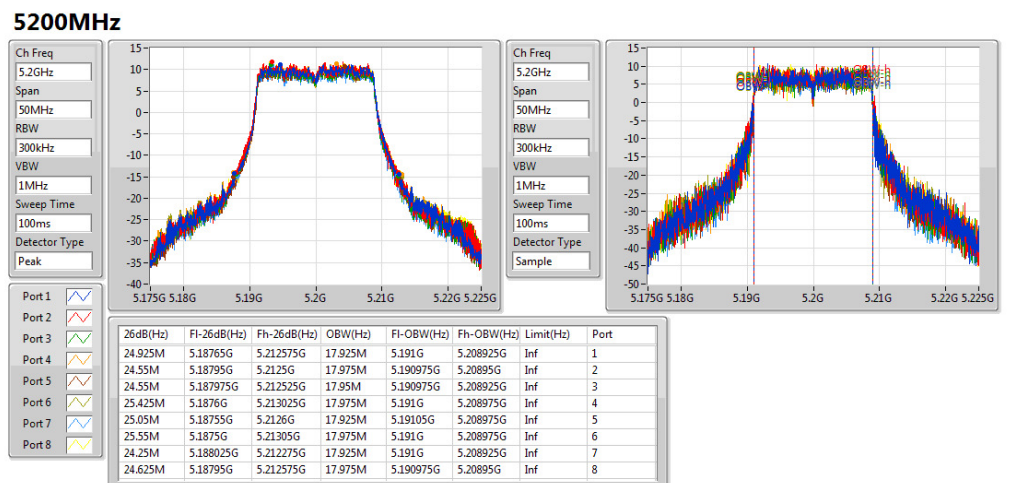
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EBW



802.11ac VHT20_Nss1,(MCS0)_8TX

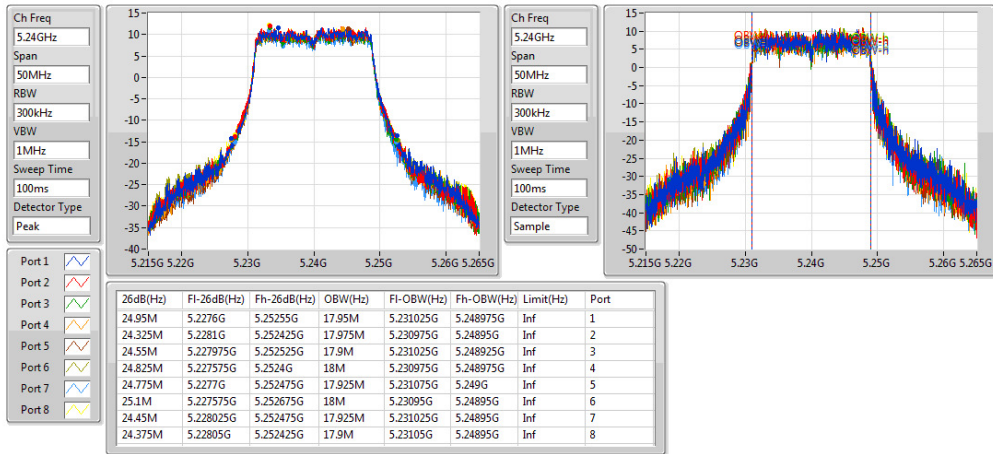
EBW



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

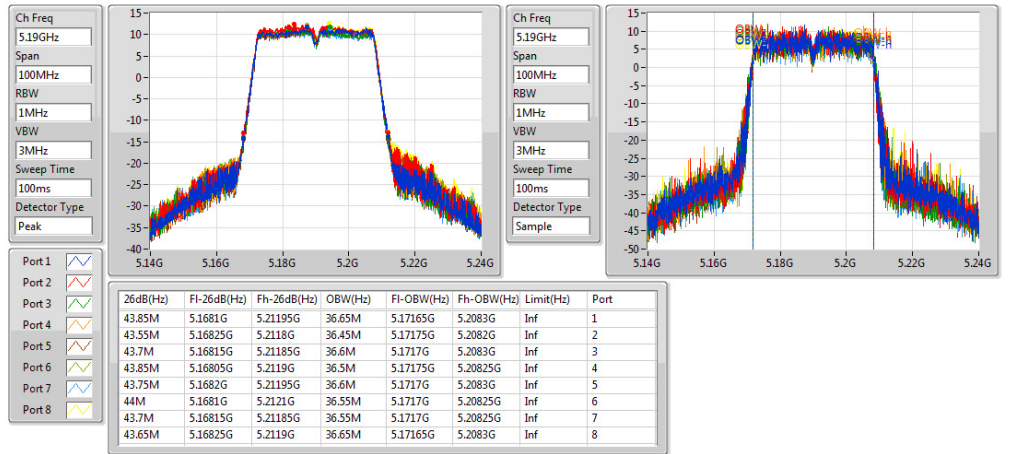
5240MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

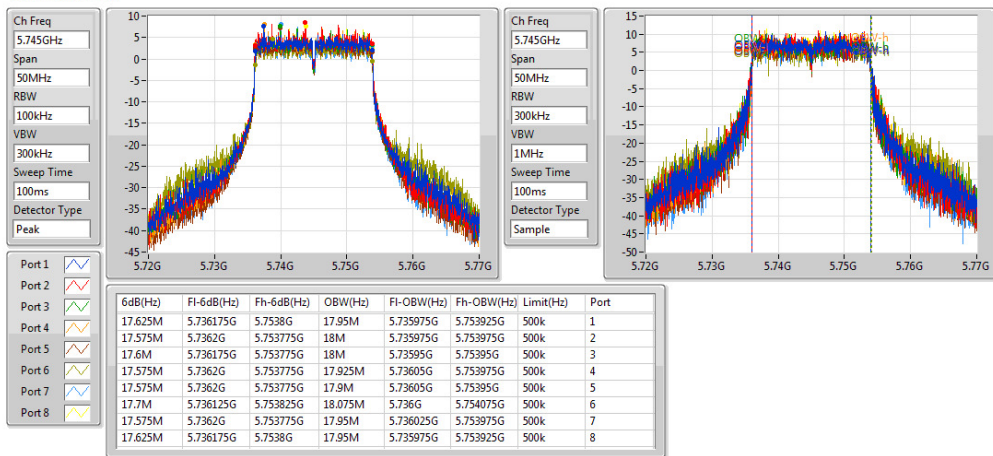
5190MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

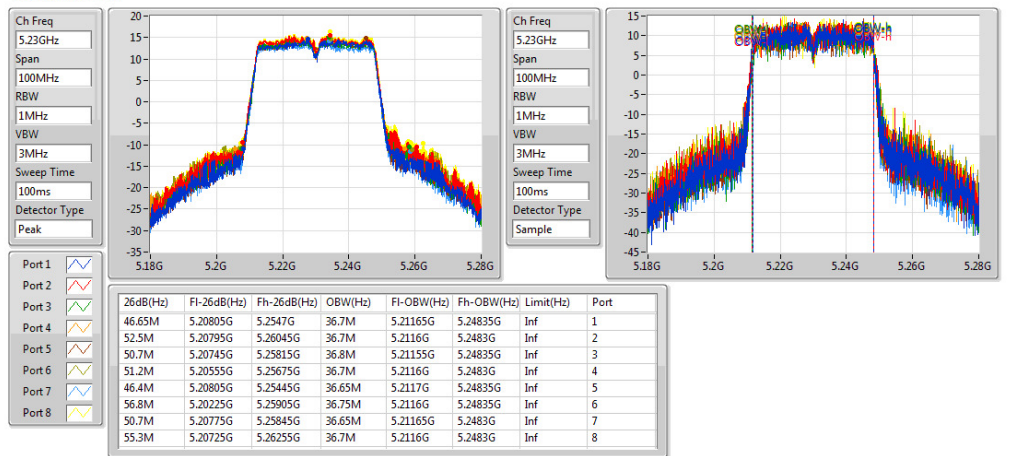
5745MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

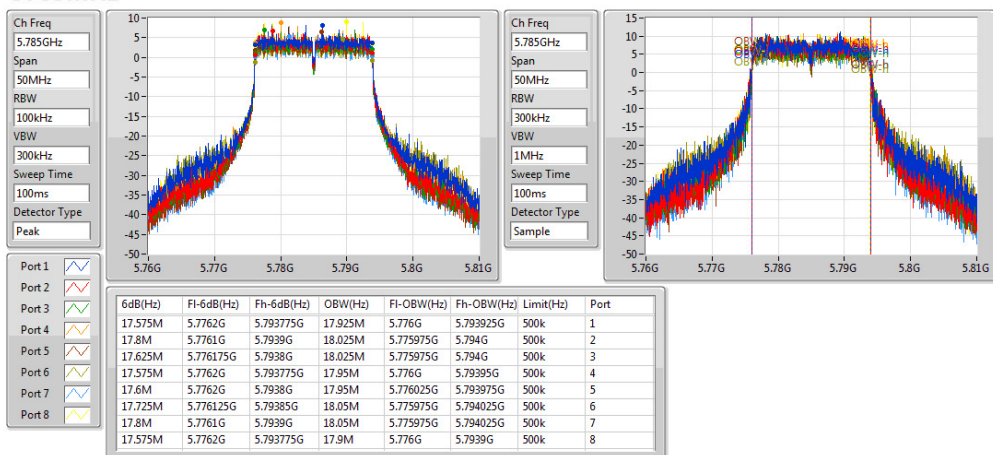
5230MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

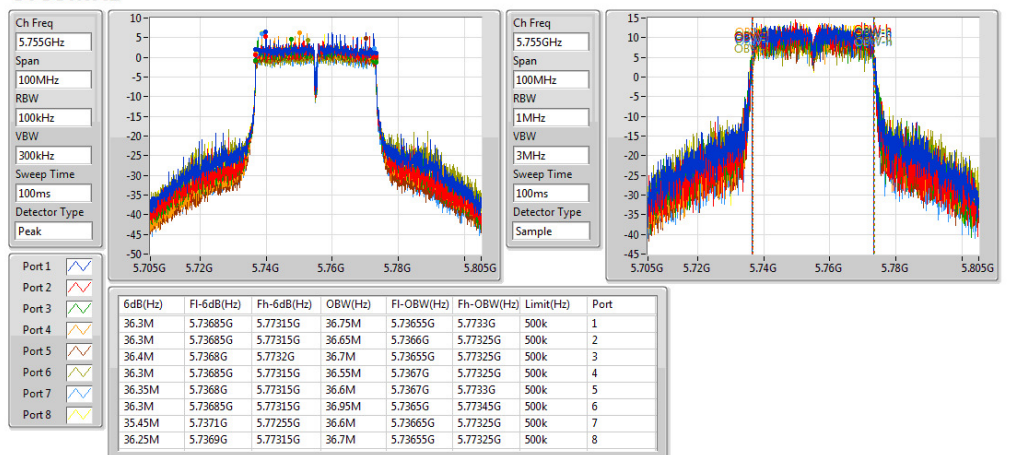
5785MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

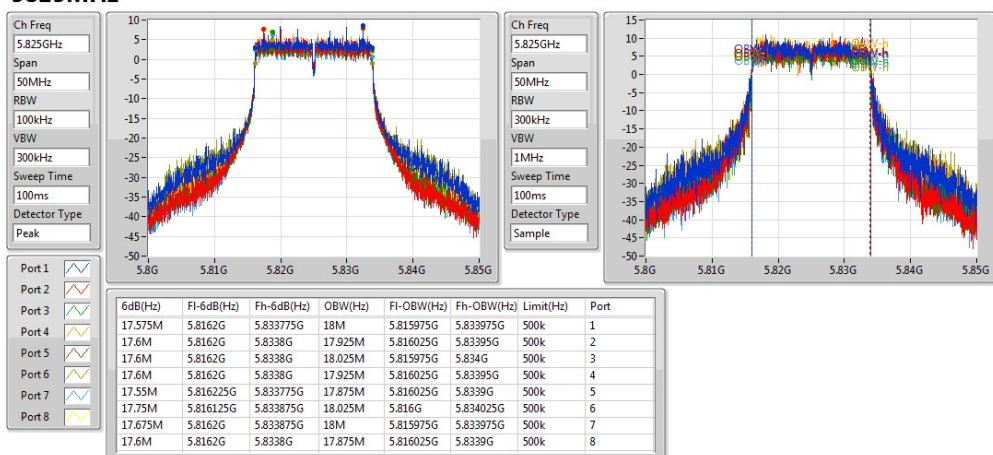
5755MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

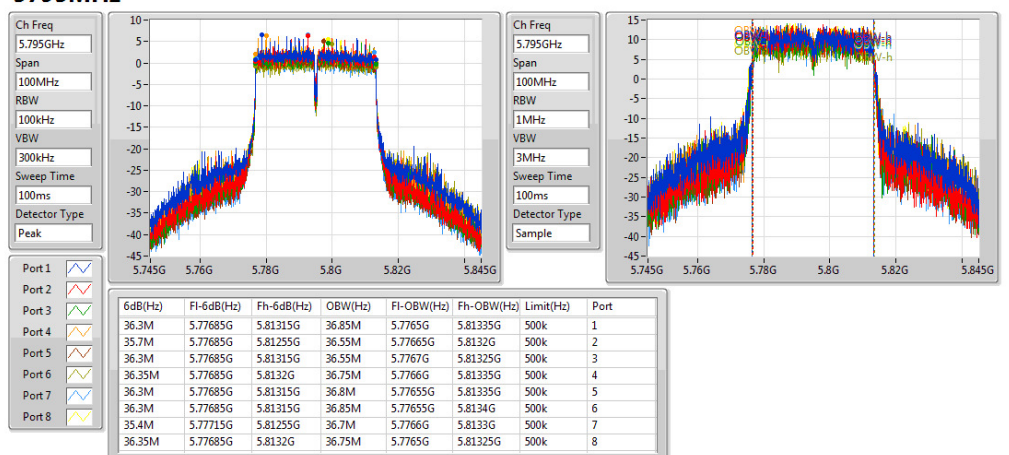
5825MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

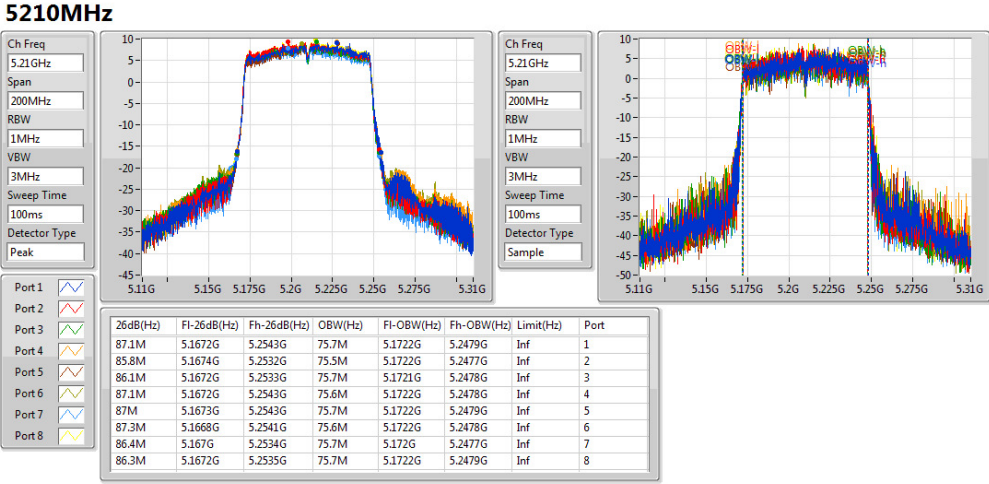
5795MHz





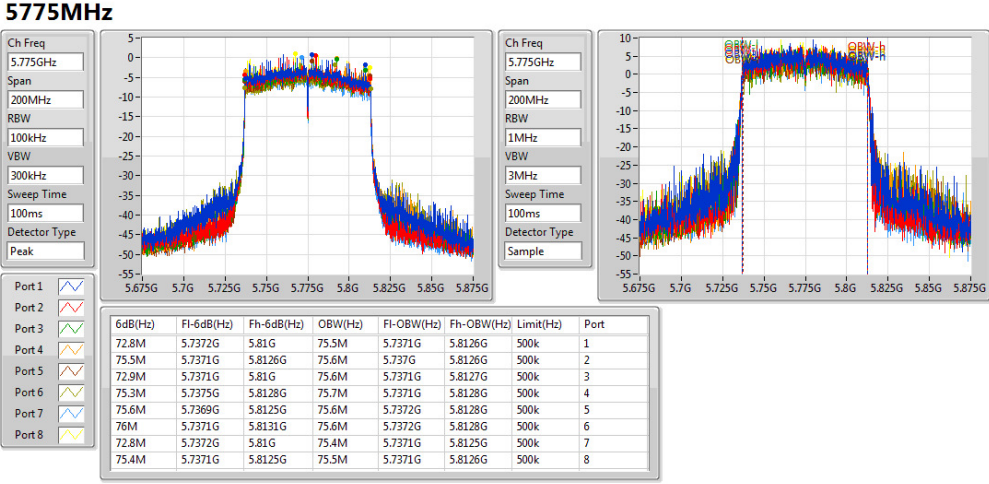
802.11ac VHT80_Nss1,(MCS0)_8TX

EBW



802.11ac VHT80_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	28M	18M	18M0D1D	24M	17.875M
5.725-5.85GHz	17.8M	18.475M	18M5D1D	17.55M	17.9M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	71.5M	36.75M	36M7D1D	42.85M	36.55M
5.725-5.85GHz	36.3M	37.05M	37M0D1D	35.65M	36.65M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	86.2M	75.8M	75M8D1D	84.9M	75.4M
5.725-5.85GHz	75.3M	76.1M	76M1D1D	70.6M	75.6M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



Result

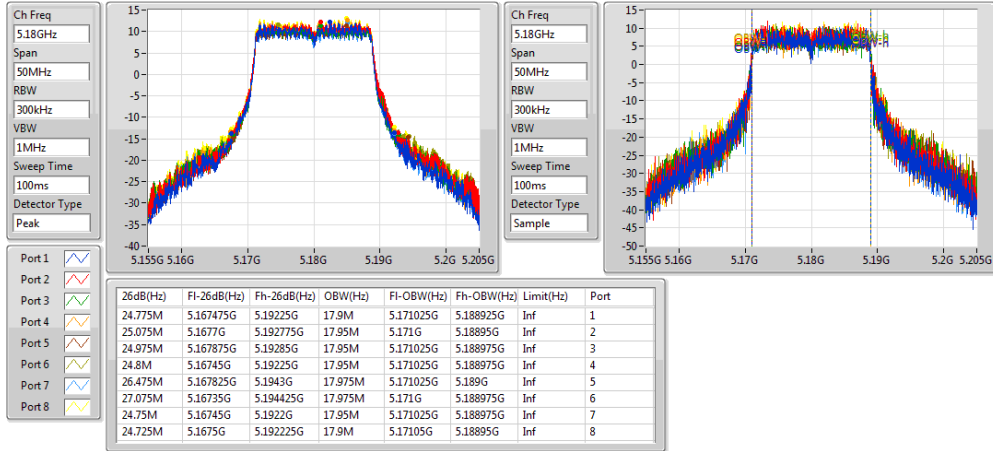
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.775M	17.9M	25.075M	17.95M	24.975M	17.95M	24.8M	17.95M	26.475M	17.975M	27.075M	17.975M	24.75M	17.95M	24.725M	17.9M
5200MHz	Pass	Inf	24.275M	17.95M	24.225M	18M	25M	18M	24.825M	18M	24.975M	17.975M	28M	18M	24.75M	17.975M	24.575M	18M
5240MHz	Pass	Inf	24.725M	17.95M	24.5M	17.925M	24.35M	17.875M	24.4M	17.925M	24.475M	17.975M	24.925M	17.975M	24M	17.875M	24.825M	17.975M
5745MHz	Pass	500k	17.6M	17.925M	17.55M	18M	17.55M	17.925M	17.55M	17.925M	17.8M	18.025M	17.575M	18.475M	17.625M	17.9M	17.6M	17.975M
5785MHz	Pass	500k	17.575M	18.05M	17.6M	17.925M	17.575M	18.075M	17.6M	18M	17.575M	17.95M	17.575M	18.3M	17.65M	17.95M	17.625M	17.925M
5825MHz	Pass	500k	17.575M	17.975M	17.575M	18M	17.575M	17.925M	17.7M	18M	17.575M	17.9M	17.575M	18.25M	17.575M	17.925M	17.575M	17.925M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.9M	36.6M	43.8M	36.55M	43.65M	36.6M	42.85M	36.55M	43.9M	36.55M	43.7M	36.55M	42.95M	36.55M	42.95M	36.6M
5230MHz	Pass	Inf	47M	36.75M	59.65M	36.7M	50.3M	36.7M	44.65M	36.65M	51.3M	36.65M	71.5M	36.7M	43.15M	36.7M	44.85M	36.65M
5755MHz	Pass	500k	35.7M	36.9M	36.3M	36.75M	36.3M	36.7M	36.3M	36.65M	36.05M	36.75M	36M	37.05M	35.7M	36.7M	35.7M	36.7M
5795MHz	Pass	500k	35.95M	36.85M	36.3M	36.75M	36.3M	36.75M	36.3M	36.8M	36M	36.65M	35.65M	37M	35.7M	36.75M	36.3M	36.85M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	85.7M	75.6M	85.9M	75.4M	86.1M	75.7M	85.2M	75.8M	85.8M	75.6M	86.2M	75.7M	85.2M	75.8M	84.9M	75.7M
5775MHz	Pass	500k	70.6M	75.8M	75M	75.7M	75.3M	75.6M	75.2M	75.6M	75.3M	75.6M	72.7M	76.1M	73.1M	75.8M	75M	75.8M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

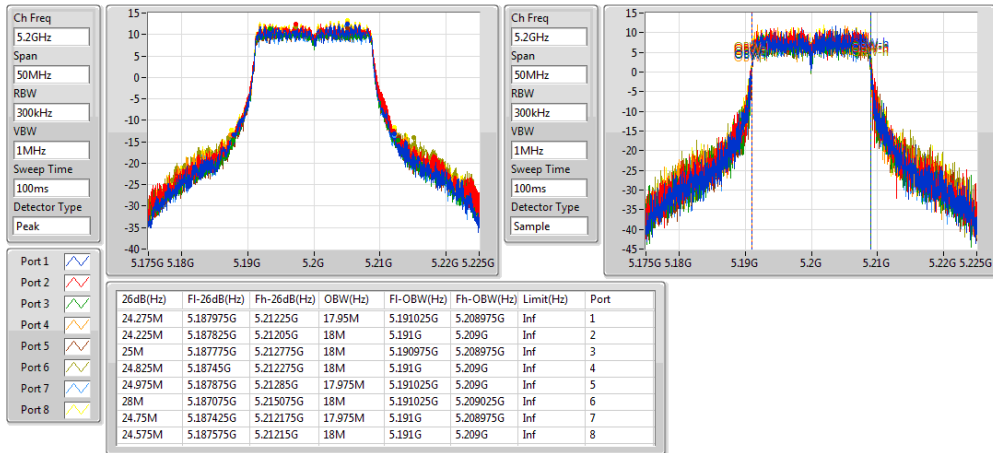
5180MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

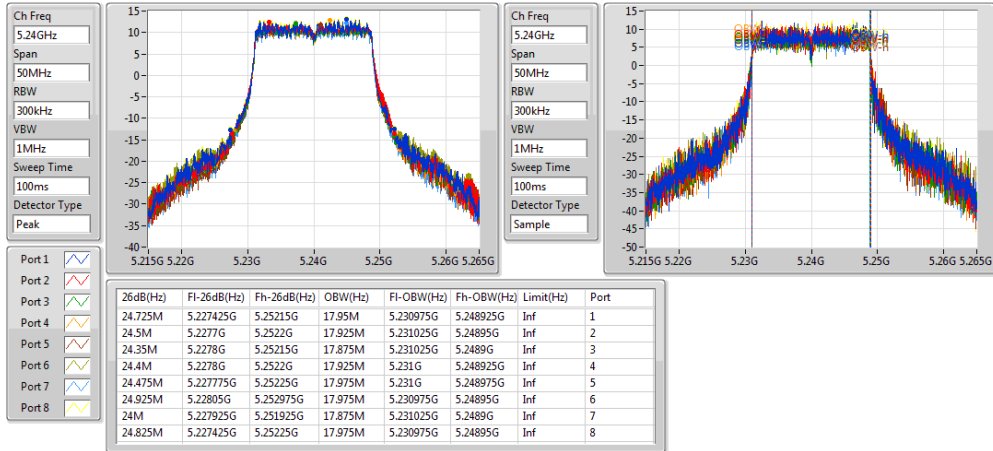
5200MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

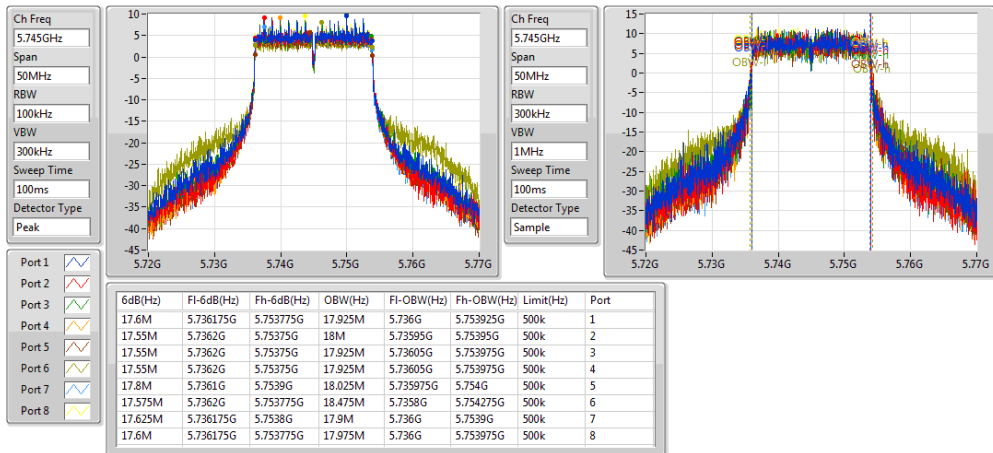
5240MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

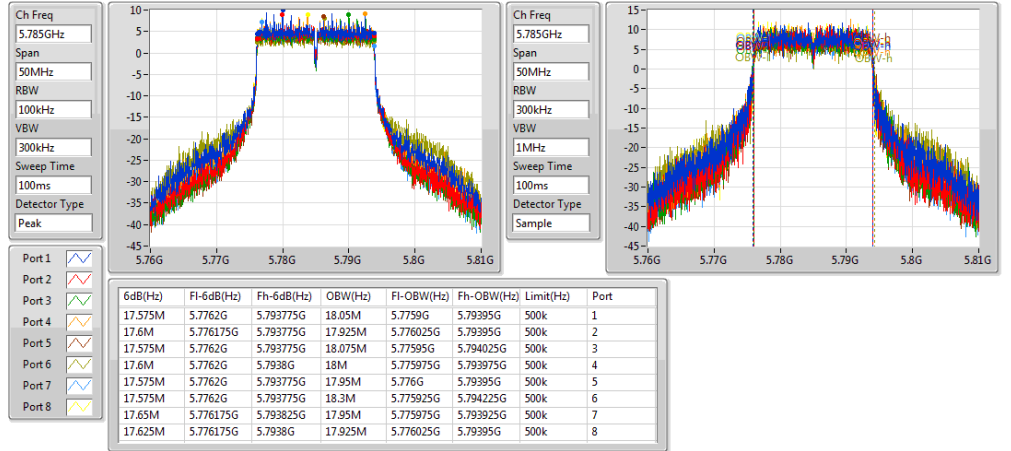
5745MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

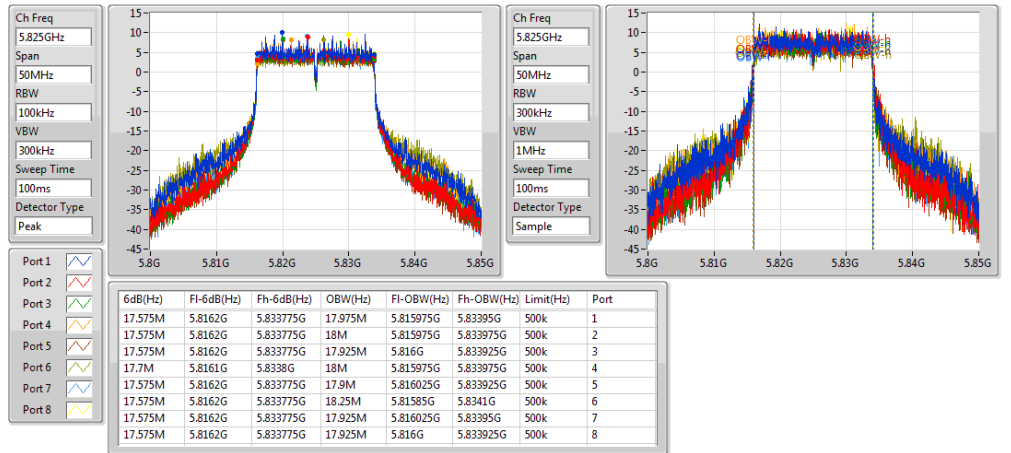
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802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

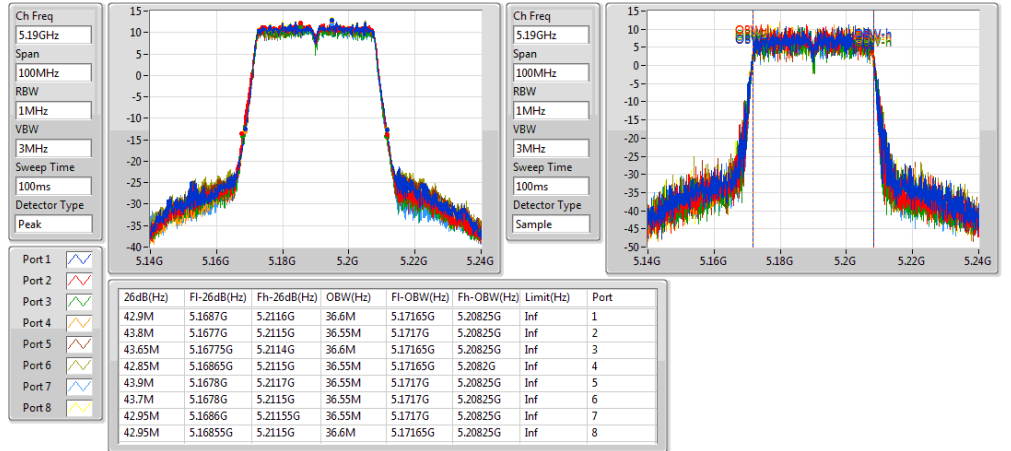
5825MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

EBW

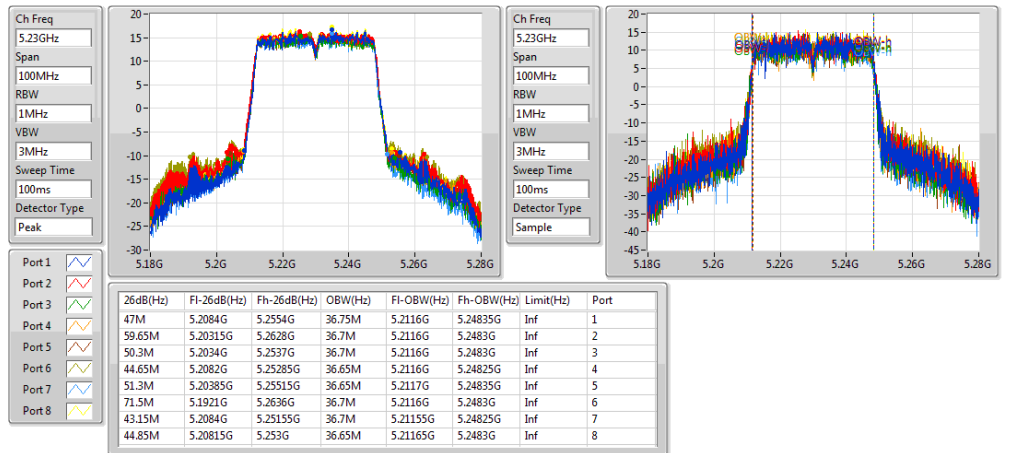
5190MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

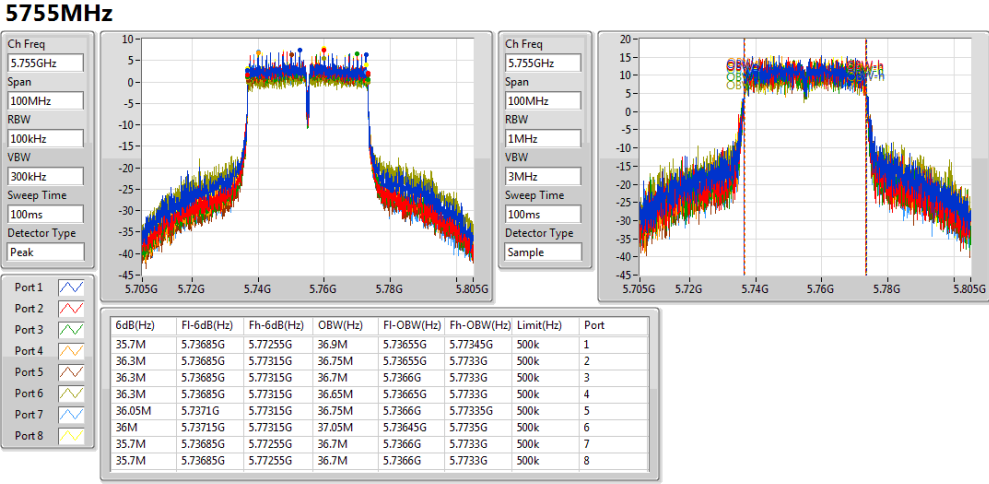
EBW

5230MHz

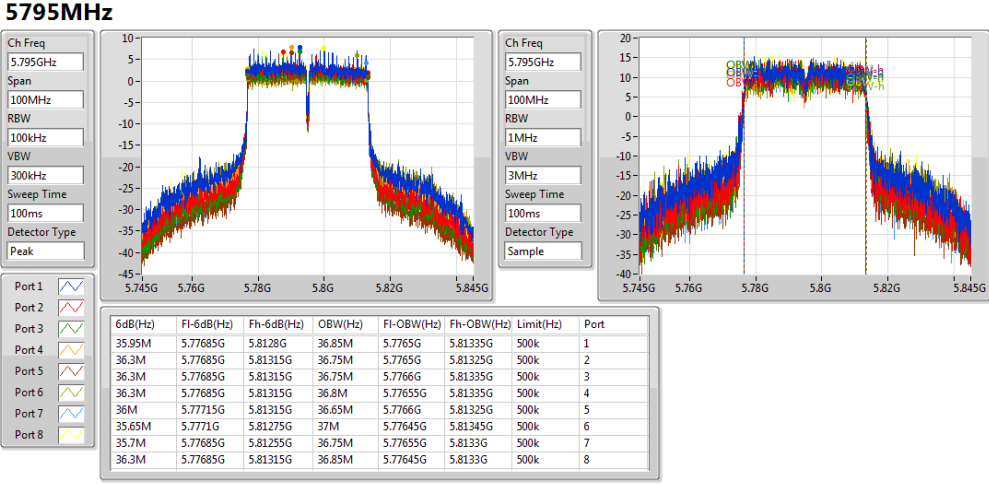




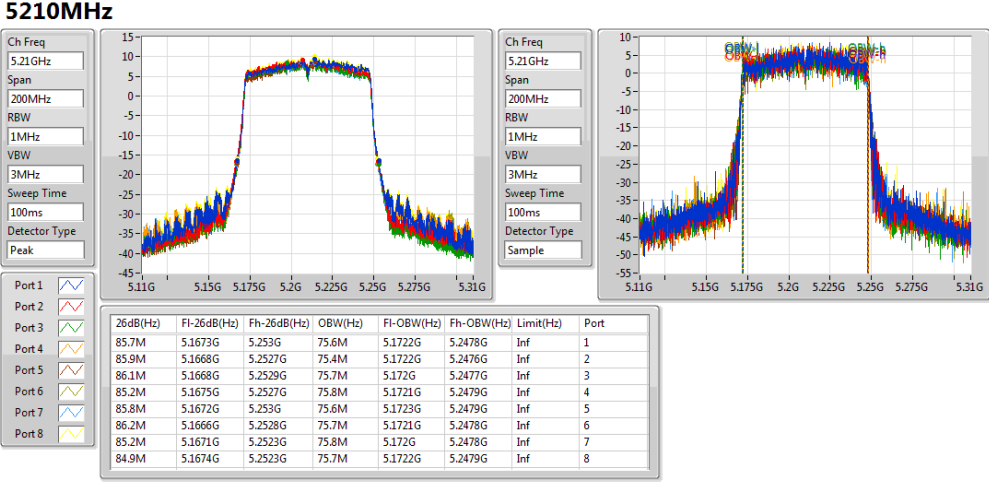
802.11ac VHT40_Nss2,(MCS0)_8TX EBW



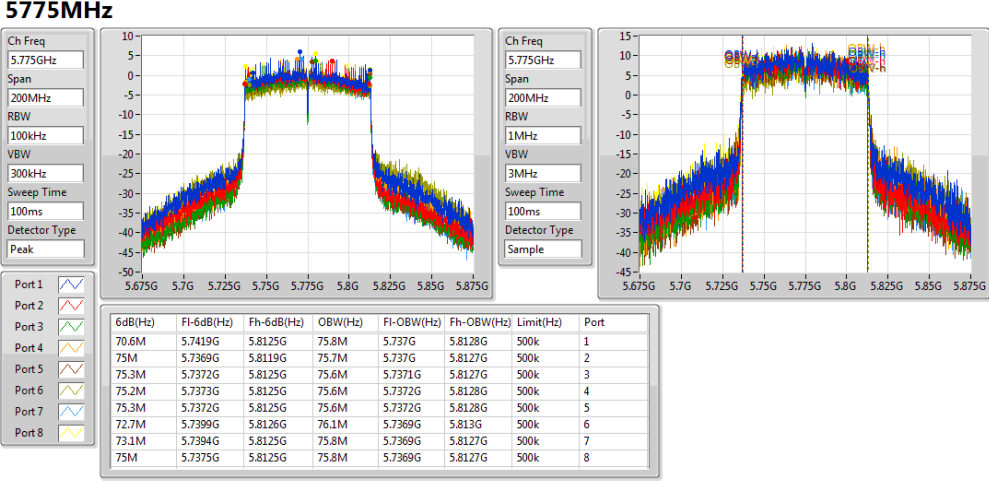
802.11ac VHT40_Nss2,(MCS0)_8TX EBW



802.11ac VHT80_Nss2,(MCS0)_8TX EBW



802.11ac VHT80_Nss2,(MCS0)_8TX EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	24.875M	18.816M	18M8D1D	23.1M	17.791M
5.725-5.85GHz	17.775M	17.916M	17M9D1D	17.275M	17.691M
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	42.95M	36.332M	36M3D1D	41.5M	36.182M
5.725-5.85GHz	36.15M	36.332M	36M3D1D	33.5M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	84.4M	75.962M	76M0D1D	82.9M	75.562M
5.725-5.85GHz	75.3M	75.662M	75M7D1D	70.5M	75.462M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



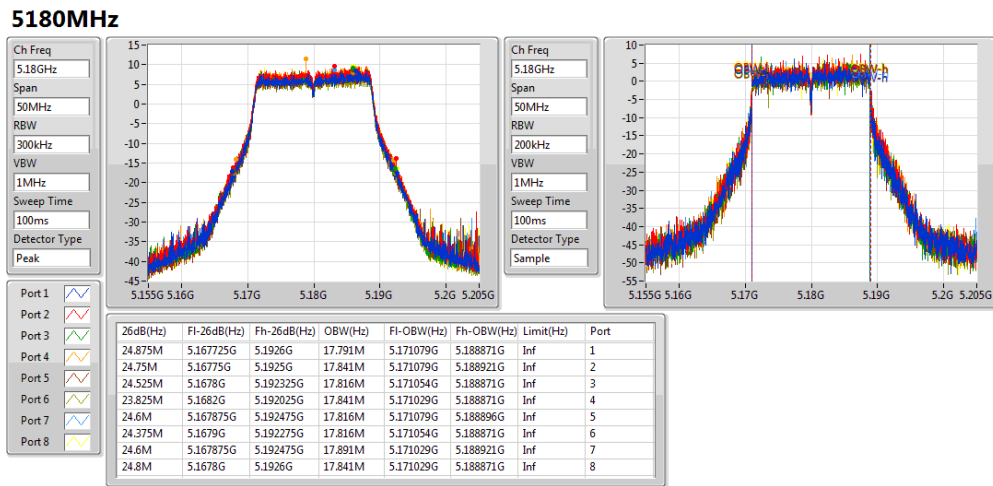
Result

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)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	24.875M	17.791M	24.75M	17.841M	24.525M	17.816M	23.825M	17.841M	24.6M	17.816M	24.375M	17.816M	24.6M	17.891M	24.8M	17.841M
5200MHz_TnomVnom	Pass	Inf	24.425M	17.966M	24.6M	17.866M	24.525M	17.891M	24.425M	17.816M	24.4M	18.791M	24.65M	17.866M	24.475M	17.841M	24.5M	18.816M
5240MHz_TnomVnom	Pass	Inf	24.6M	17.841M	23.1M	17.841M	24.55M	17.841M	24.725M	17.841M	24.5M	17.841M	24.675M	17.816M	24.875M	17.866M	24.65M	17.841M
5745MHz_TnomVnom	Pass	500k	17.675M	17.866M	17.575M	17.816M	17.65M	17.841M	17.625M	17.841M	17.55M	17.816M	17.55M	17.841M	17.675M	17.916M	17.275M	17.816M
5785MHz_TnomVnom	Pass	500k	17.575M	17.866M	17.575M	17.841M	17.55M	17.791M	17.6M	17.841M	17.6M	17.816M	17.65M	17.816M	17.725M	17.866M	17.575M	17.816M
5825MHz_TnomVnom	Pass	500k	17.75M	17.741M	17.75M	17.766M	17.7M	17.741M	17.7M	17.816M	17.725M	17.741M	17.675M	17.716M	17.7M	17.691M	17.775M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	42.15M	36.282M	42.55M	36.282M	42.4M	36.182M	42.8M	36.182M	41.8M	36.332M	42.95M	36.182M	42.25M	36.282M	42.3M	36.232M
5230MHz_TnomVnom	Pass	Inf	41.85M	36.232M	42.7M	36.282M	42.2M	36.232M	42.4M	36.232M	41.5M	36.282M	42.6M	36.232M	42.1M	36.232M	42.65M	36.232M
5755MHz_TnomVnom	Pass	500k	34.5M	36.182M	35.2M	36.332M	35.1M	36.182M	35.7M	36.232M	35.05M	36.232M	36.15M	36.232M	35.65M	36.332M	35.95M	36.232M
5795MHz_TnomVnom	Pass	500k	35.1M	36.232M	33.5M	36.232M	35M	36.282M	34.5M	36.232M	35.35M	36.282M	34.8M	36.282M	35.4M	36.182M	34.7M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	83.1M	75.762M	82.9M	75.562M	83.2M	75.762M	83.5M	75.862M	84.4M	75.662M	83.3M	75.662M	83.7M	75.962M	83.7M	75.762M
5775MHz_TnomVnom	Pass	500k	71.2M	75.562M	70.5M	75.662M	74.3M	75.662M	72.6M	75.662M	75.2M	75.662M	74.4M	75.462M	75.1M	75.662M	75.3M	75.562M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

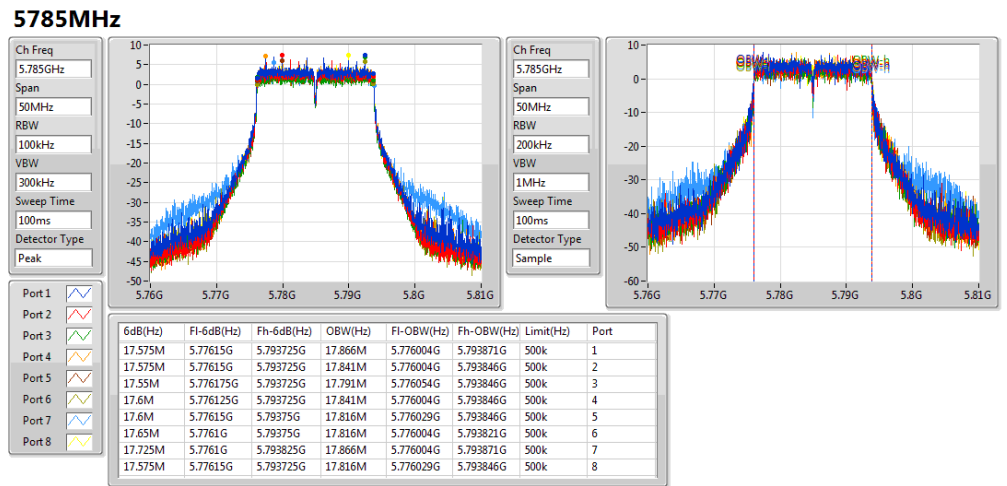
802.11ac VHT20-BF_Nss1,(MCS0)_8TX

EBW



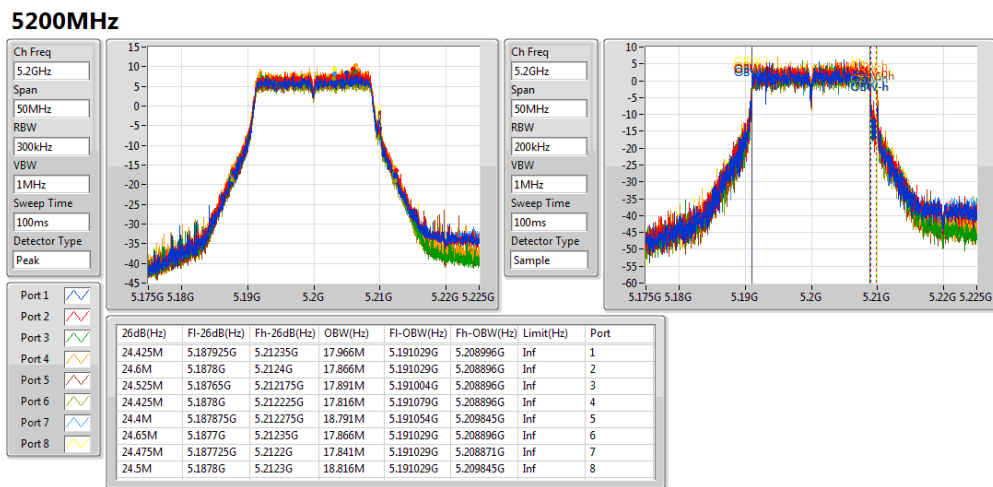
802.11ac VHT20-BF_Nss1,(MCS0)_8TX

EBW



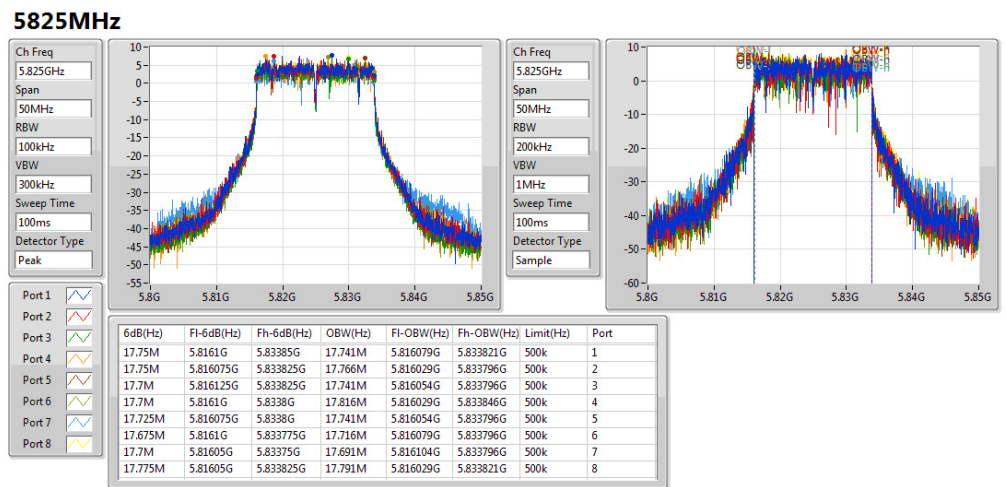
802.11ac VHT20-BF_Nss1,(MCS0)_8TX

EBW



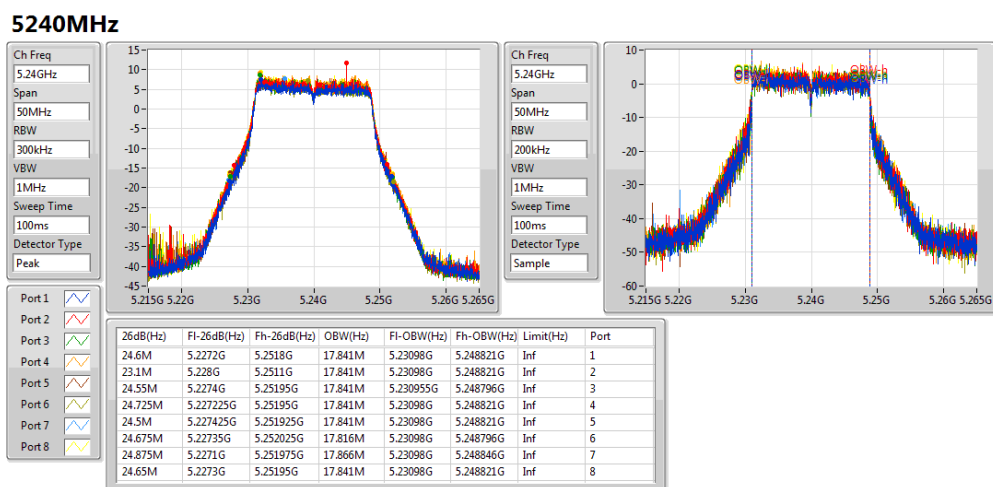
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EBW



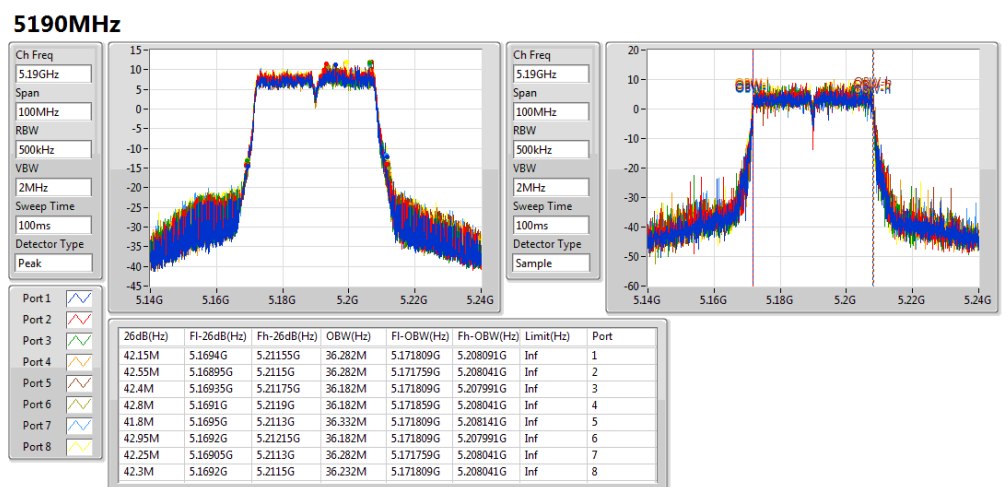
802.11ac VHT20-BF_Nss1,(MCS0)_8TX

EBW



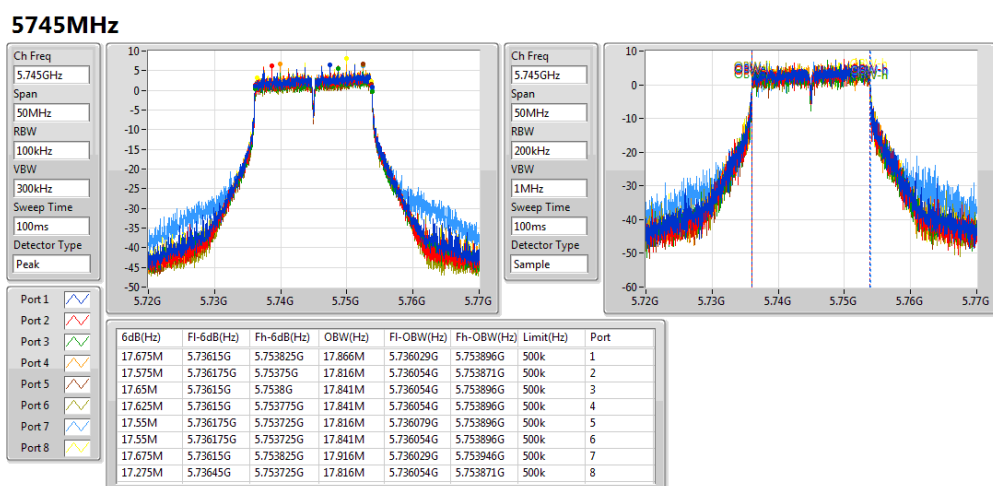
802.11ac VHT40-BF_Nss1,(MCS0)_8TX

EBW



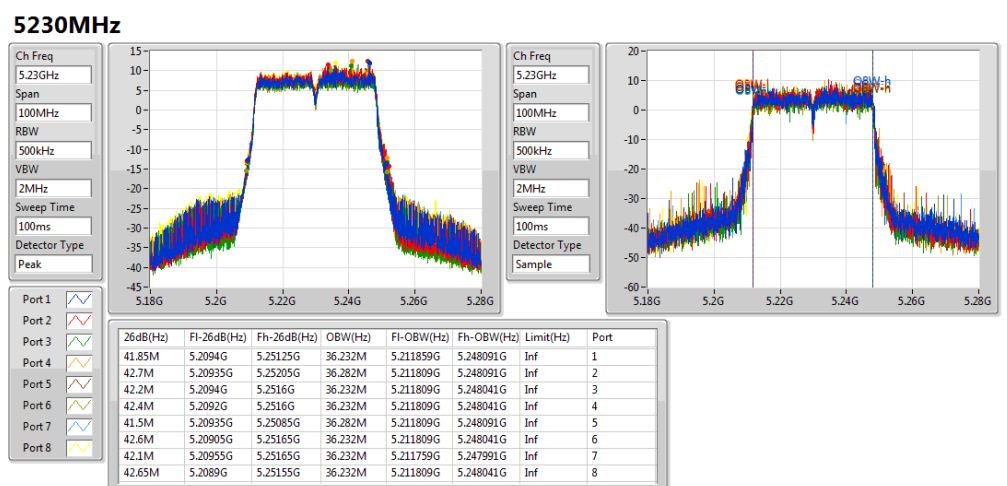
802.11ac VHT20-BF_Nss1,(MCS0)_8TX

EBW



802.11ac VHT40-BF_Nss1,(MCS0)_8TX

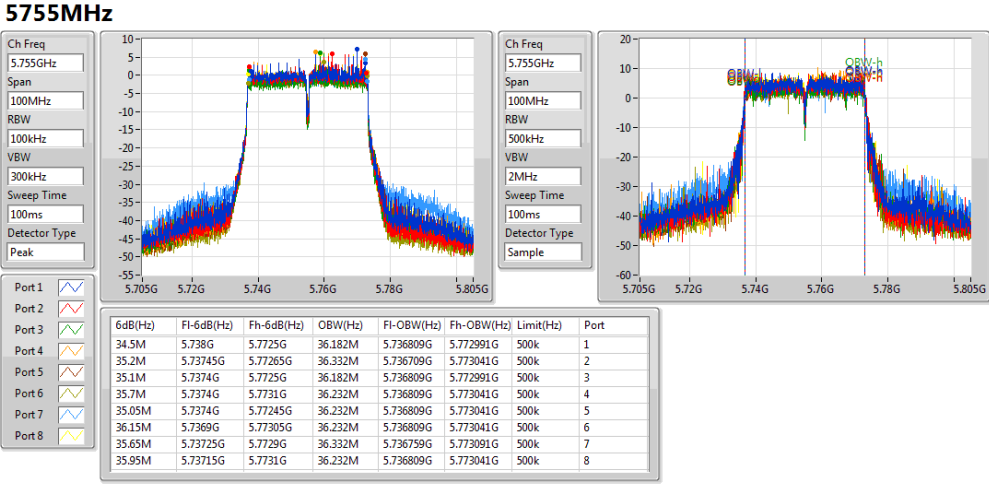
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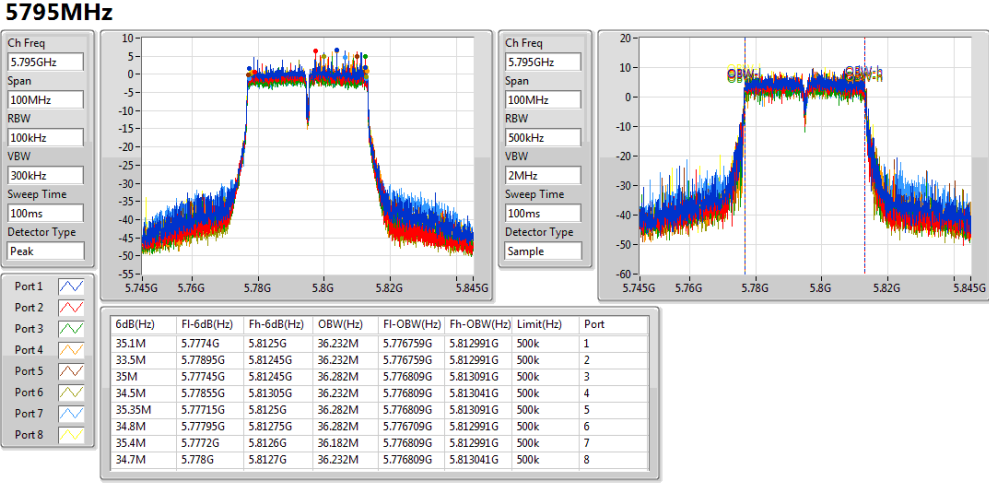
802.11ac VHT40-BF_Nss1,(MCS0)_8TX

EBW



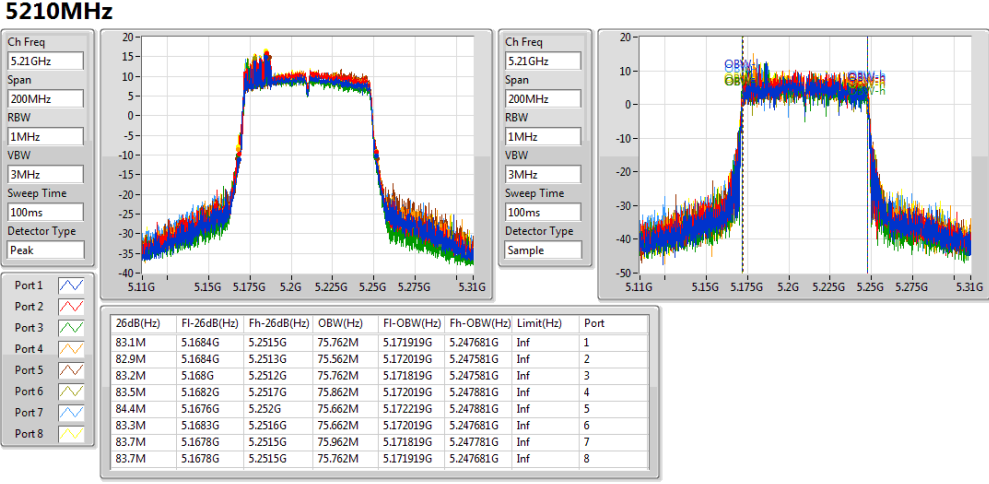
802.11ac VHT40-BF_Nss1,(MCS0)_8TX

EBW



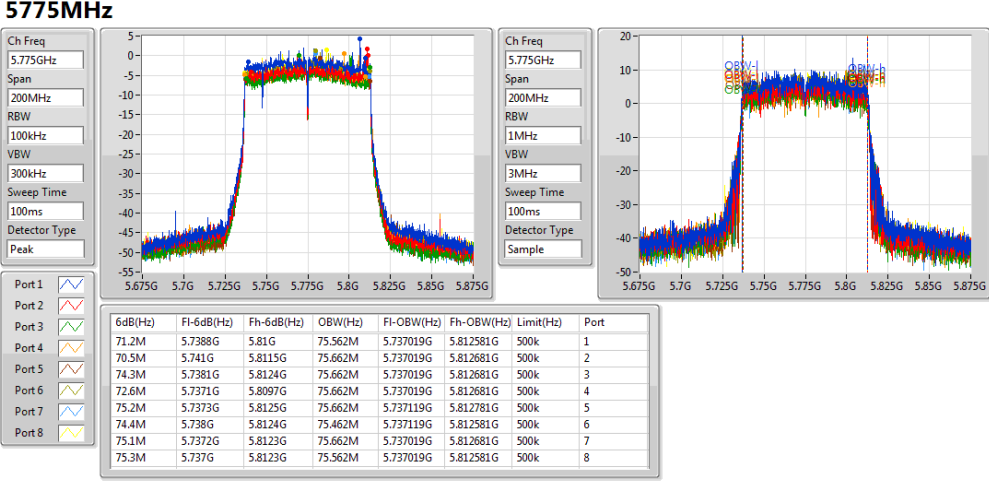
802.11ac VHT80-BF_Nss1,(MCS0)_8TX

EBW



802.11ac VHT80-BF_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	24.7M	17.841M	17M8D1D	23.65M	17.716M
5.725-5.85GHz	17.825M	18.091M	18M1D1D	17.55M	17.716M
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	43.95M	36.432M	36M4D1D	40.8M	36.182M
5.725-5.85GHz	36.45M	36.832M	36M8D1D	34.25M	36.232M
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	85.5M	75.962M	76M0D1D	84M	75.562M
5.725-5.85GHz	75.4M	75.862M	75M9D1D	52.5M	75.462M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



Result

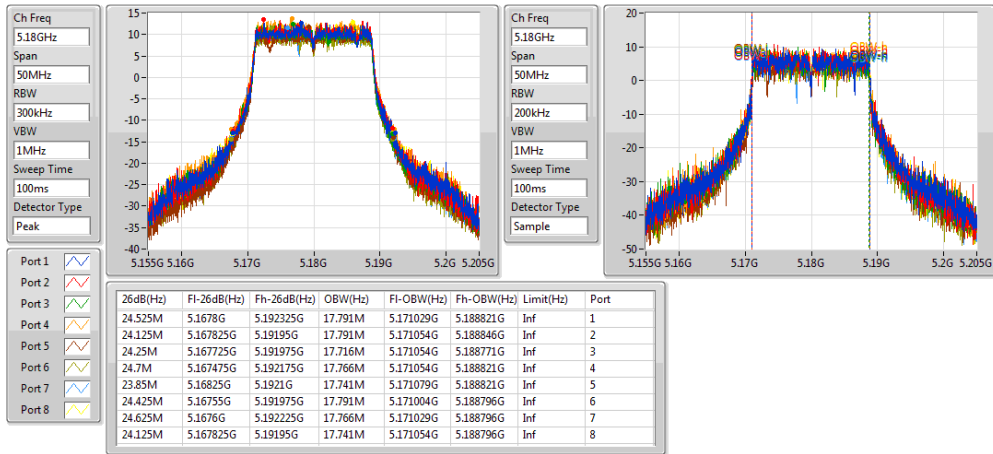
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.525M	17.791M	24.125M	17.791M	24.25M	17.716M	24.7M	17.766M	23.85M	17.741M	24.425M	17.791M	24.625M	17.766M	24.125M	17.741M
5200MHz	Pass	Inf	24.05M	17.841M	24M	17.766M	23.975M	17.766M	23.675M	17.766M	23.9M	17.741M	23.975M	17.816M	24.45M	17.766M	23.75M	17.716M
5240MHz	Pass	Inf	24.1M	17.766M	24.1M	17.766M	24.55M	17.766M	24.4M	17.791M	23.65M	17.766M	24.35M	17.791M	24.425M	17.816M	23.8M	17.741M
5745MHz	Pass	500k	17.6M	17.766M	17.725M	17.766M	17.625M	17.741M	17.625M	17.791M	17.7M	17.766M	17.825M	17.891M	17.675M	18.091M	17.6M	17.766M
5785MHz	Pass	500k	17.6M	17.816M	17.6M	17.791M	17.675M	17.741M	17.675M	17.766M	17.625M	17.791M	17.775M	17.791M	17.775M	17.891M	17.675M	17.741M
5825MHz	Pass	500k	17.7M	17.766M	17.6M	17.816M	17.55M	17.716M	17.725M	17.791M	17.575M	17.766M	17.775M	17.741M	17.75M	17.791M	17.675M	17.766M
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.45M	36.382M	42.25M	36.232M	42.75M	36.432M	43.6M	36.332M	40.8M	36.332M	43.05M	36.332M	42.3M	36.332M	43.3M	36.432M
5230MHz	Pass	Inf	41.45M	36.332M	42.05M	36.182M	41.95M	36.432M	42.1M	36.232M	41.45M	36.282M	42.55M	36.282M	43.05M	36.282M	43.95M	36.382M
5755MHz	Pass	500k	35.55M	36.432M	36.1M	36.232M	36.4M	36.332M	35.7M	36.282M	35.1M	36.232M	35.55M	36.332M	35.05M	36.632M	36.45M	36.382M
5795MHz	Pass	500k	35.05M	36.332M	34.25M	36.282M	35.45M	36.282M	34.85M	36.332M	35.3M	36.332M	35.15M	36.332M	35.5M	36.832M	35.3M	36.382M
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	84.6M	75.562M	84.4M	75.762M	84.3M	75.762M	84.2M	75.662M	85.4M	75.962M	84.9M	75.762M	85.5M	75.862M	84M	75.762M
5775MHz	Pass	500k	75.4M	75.462M	73.8M	75.562M	66.9M	75.662M	52.5M	75.662M	64.7M	75.662M	66.3M	75.562M	66.5M	75.662M	64M	75.862M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

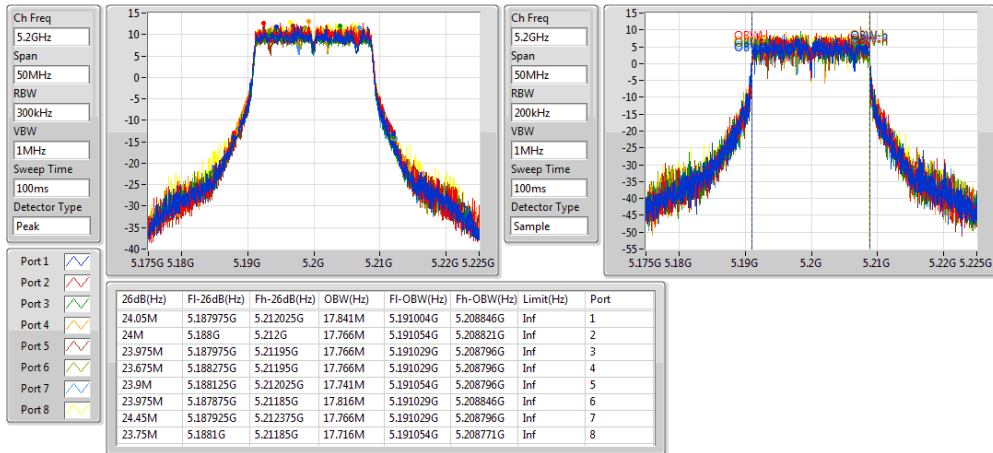
5180MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

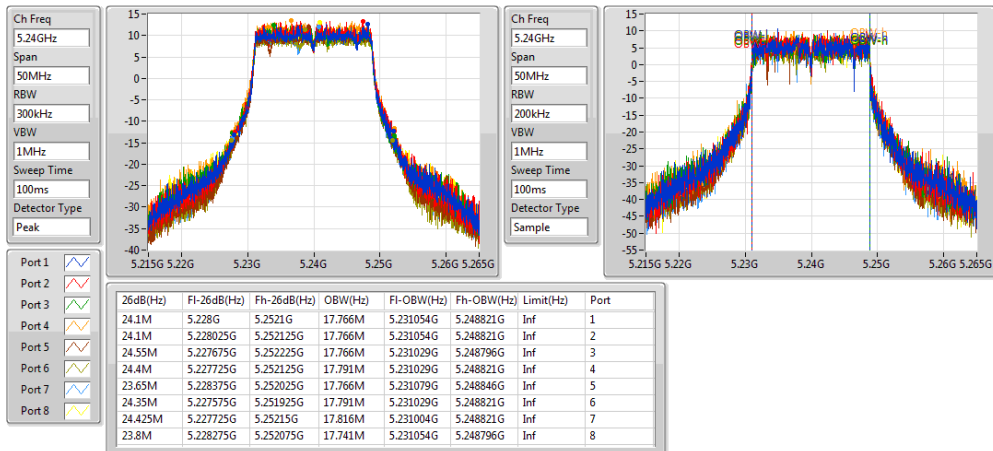
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802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

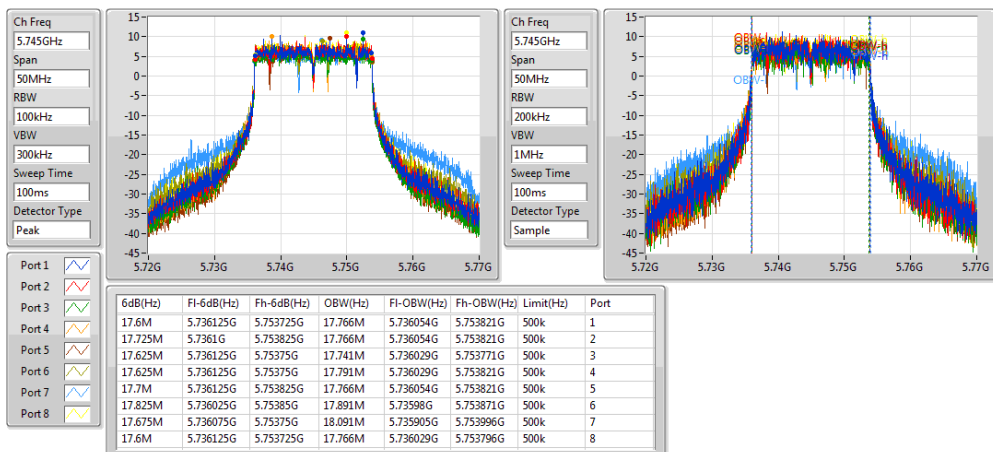
5240MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

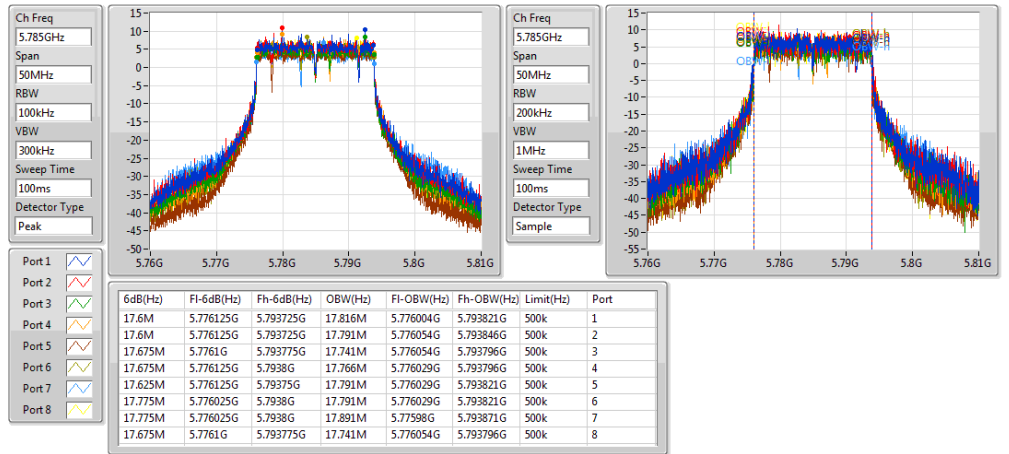
5745MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

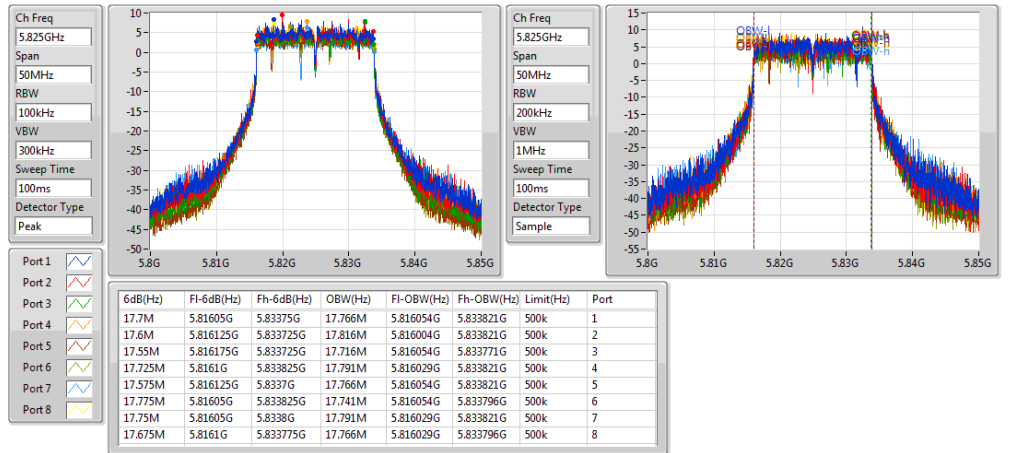
5785MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW

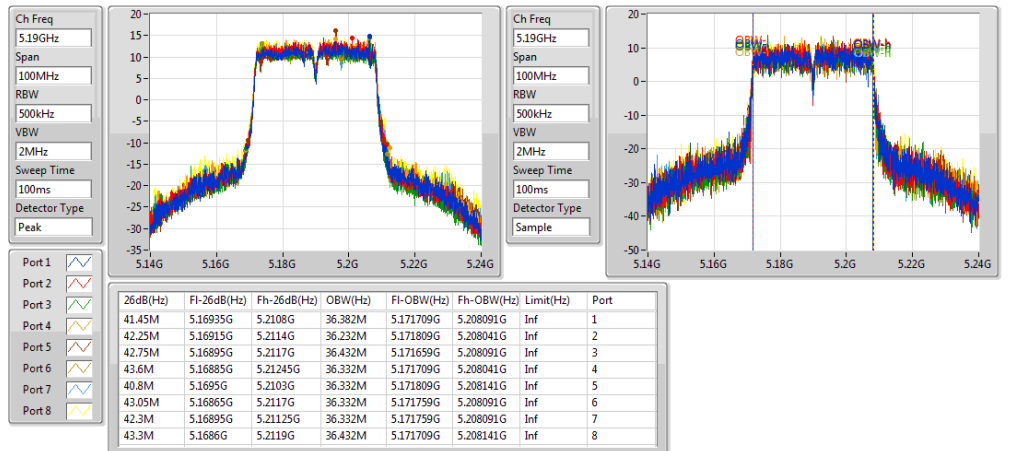
5825MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

EBW

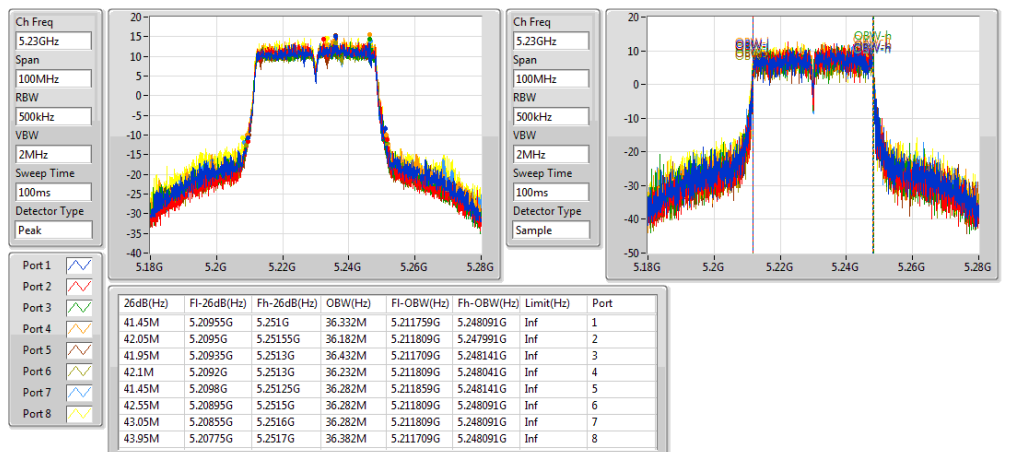
5190MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

EBW

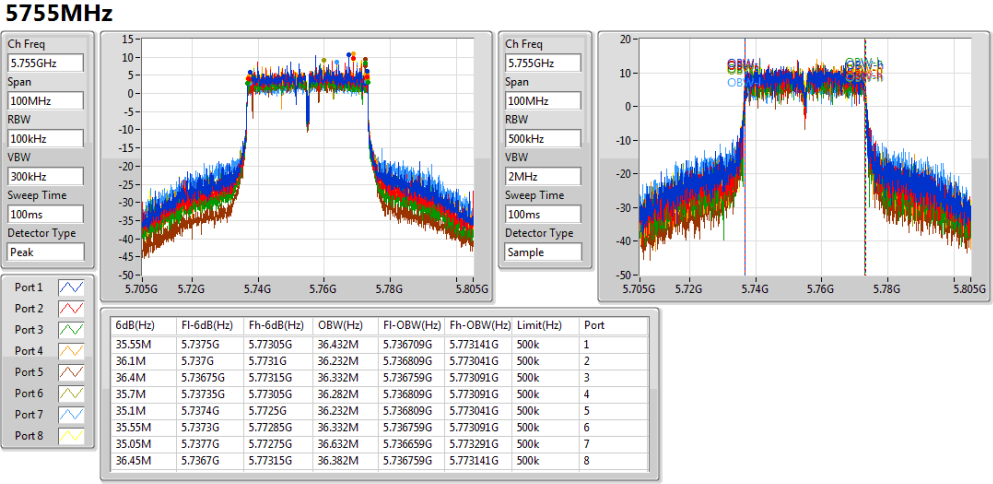
5230MHz





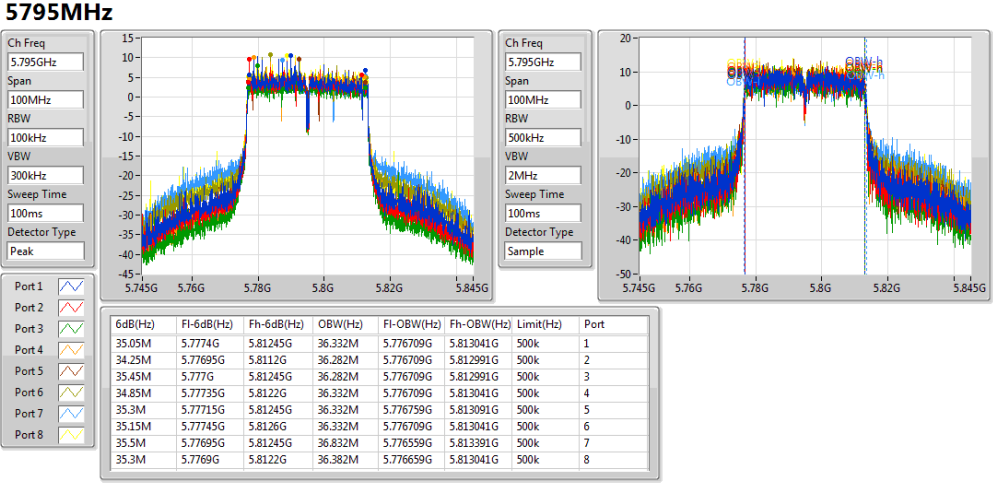
802.11ac VHT40-BF_Nss2,(MCS0)_8TX

EBW



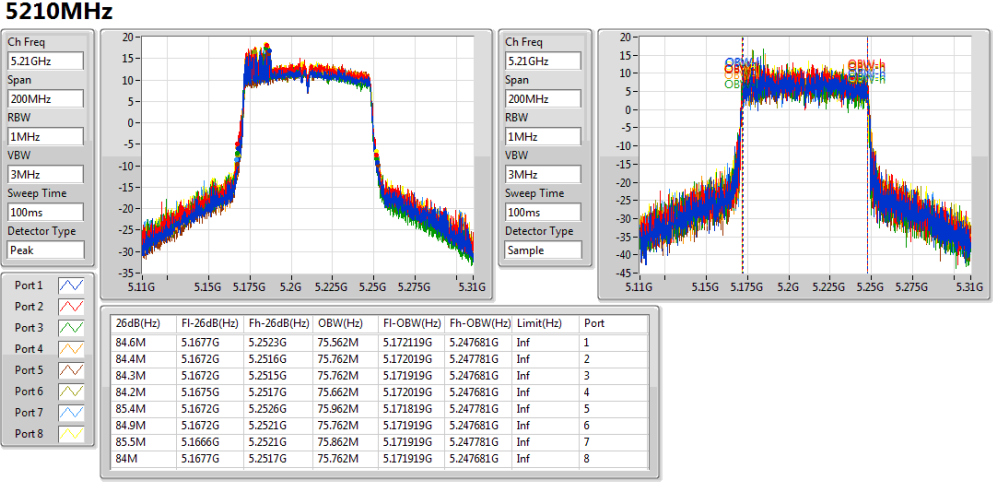
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EBW



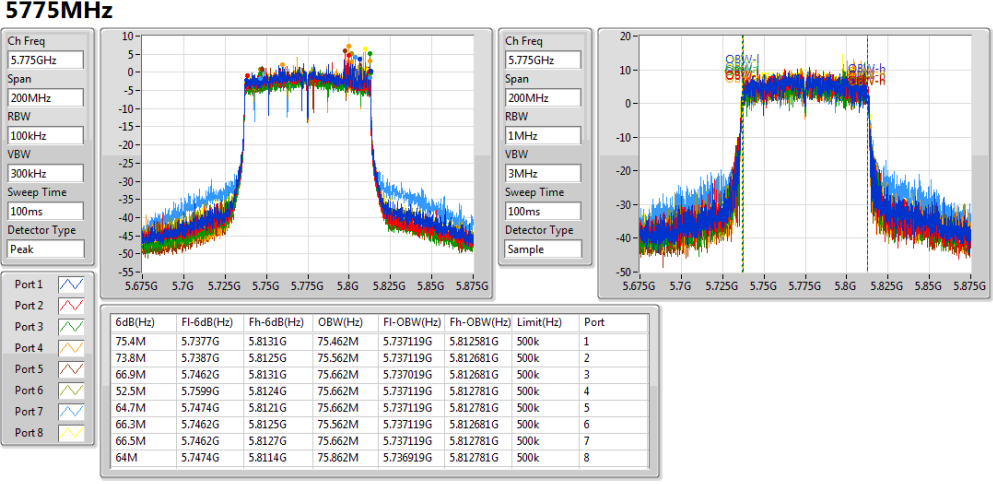
802.11ac VHT80-BF_Nss2,(MCS0)_8TX

EBW



802.11ac VHT80-BF_Nss2,(MCS0)_8TX

EBW





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_8TX	-	-	-	-
5.15-5.25GHz	27.02	0.50350	33.52	2.24905
5.725-5.85GHz	29.59	0.90991	35.99	3.97192
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	27.42	0.55208	33.92	2.46604
5.725-5.85GHz	29.59	0.90991	35.99	3.97192
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.48	0.88716	35.98	3.96278
5.725-5.85GHz	29.62	0.91622	33.02	2.00475
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.36	0.43251	32.86	1.93197
5.725-5.85GHz	25.92	0.39084	32.32	1.70608



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.50	17.91	18.66	17.34	18.42	17.49	18.00	17.42	18.44	27.02	29.50	33.52	36.00
5200MHz	Pass	6.50	17.76	18.49	17.48	18.18	17.55	17.80	17.12	18.45	26.91	29.50	33.41	36.00
5240MHz	Pass	6.50	17.78	18.20	17.63	18.05	17.75	17.77	17.07	18.60	26.91	29.50	33.41	36.00
5745MHz	Pass	6.40	21.03	21.07	20.63	20.78	20.27	19.42	20.17	20.89	29.59	29.60	35.99	36.00
5785MHz	Pass	6.40	20.84	20.65	19.90	20.76	19.61	18.97	19.71	20.92	29.25	29.60	35.65	36.00
5825MHz	Pass	6.40	20.92	20.28	20.29	20.67	19.50	19.32	19.77	20.48	29.22	29.60	35.62	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.50	18.34	19.00	18.15	18.74	18.04	18.33	17.73	18.50	27.40	29.50	33.90	36.00
5200MHz	Pass	6.50	18.22	19.10	18.31	18.86	18.07	18.07	17.68	18.61	27.42	29.50	33.92	36.00
5240MHz	Pass	6.50	18.47	18.67	18.25	18.46	17.97	17.93	17.23	18.74	27.27	29.50	33.77	36.00
5745MHz	Pass	6.40	20.87	20.67	20.61	20.87	20.33	19.27	20.41	21.16	29.59	29.60	35.99	36.00
5785MHz	Pass	6.40	21.21	20.52	20.32	20.41	19.46	19.18	19.78	20.18	29.21	29.60	35.61	36.00
5825MHz	Pass	6.40	20.74	20.47	20.31	20.37	20.17	19.27	19.64	20.32	29.21	29.60	35.61	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.50	16.39	16.51	16.50	15.14	16.34	16.57	16.28	16.91	25.39	30.00	28.89	36.00
5230MHz	Pass	3.50	20.21	20.89	20.12	20.67	20.25	20.29	19.54	21.40	29.48	30.00	32.98	36.00
5755MHz	Pass	3.40	21.25	21.13	20.58	20.8	20.05	19.23	19.88	21.08	29.58	30.00	32.98	36.00
5795MHz	Pass	3.40	21.19	20.94	20.42	21.27	20.24	19.22	19.92	21.11	29.62	30.00	33.02	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.50	17.37	17.70	17.22	17.64	16.99	17.28	16.37	17.87	26.36	30.00	29.86	36.00
5775MHz	Pass	3.40	20.32	19.88	19.81	20.01	19.45	18.7	19.13	20.32	28.77	30.00	32.17	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.49	0.88920	35.99	3.97192
5.725-5.85GHz	29.47	0.88512	35.87	3.86367
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.49	0.88920	32.99	1.99067
5.725-5.85GHz	29.59	0.90991	32.99	1.99067
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.10	0.40738	29.60	0.91201
5.725-5.85GHz	29.48	0.88716	32.88	1.94089



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.50	20.13	21.07	20.16	20.61	20.13	20.14	20.04	21.07	29.47	29.50	35.97	36.00
5200MHz	Pass	6.50	20.21	21.07	20.33	20.66	20.01	20.26	20.01	21.01	29.49	29.50	35.99	36.00
5240MHz	Pass	6.50	20.57	21.09	20.21	20.48	20.03	20.21	20.10	20.87	29.49	29.50	35.99	36.00
5745MHz	Pass	6.40	20.74	20.68	20.63	20.93	19.99	19.34	19.93	20.94	29.46	29.60	35.86	36.00
5785MHz	Pass	6.40	20.93	20.73	20.54	20.90	20.01	19.36	19.90	20.90	29.47	29.60	35.87	36.00
5825MHz	Pass	6.40	20.90	20.51	20.24	21.09	19.76	19.50	19.90	20.81	29.40	29.60	35.80	36.00
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.50	17.90	18.18	17.15	17.87	17.54	17.49	17.05	18.01	26.70	30.00	30.20	36.00
5230MHz	Pass	3.50	20.62	20.71	20.18	20.66	20.37	20.29	19.71	21.00	29.49	30.00	32.99	36.00
5755MHz	Pass	3.40	21.18	21.01	20.44	20.9	20.21	19.27	20.08	21.02	29.59	30.00	32.99	36.00
5795MHz	Pass	3.40	21.14	21.06	20.46	20.78	20.04	19.28	20.07	21.23	29.58	30.00	32.98	36.00
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.50	17.19	17.50	16.62	17.25	16.79	16.86	16.48	17.70	26.10	30.00	29.60	36.00
5775MHz	Pass	3.40	21.02	20.90	20.46	20.86	20.03	19.04	19.81	21.09	29.48	30.00	32.88	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.47	0.44361	35.77	3.77572
5.725-5.85GHz	26.28	0.42462	35.98	3.96278
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.56	0.45290	35.86	3.85478
5.725-5.85GHz	25.95	0.39355	35.65	3.67282
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.65	0.46238	35.95	3.93550
5.725-5.85GHz	26.26	0.42267	35.96	3.94457



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.30	16.44	17.53	16.90	17.28	17.48	16.54	17.59	17.93	26.27	26.70	35.57	36.00
5200MHz	Pass	9.30	17.20	16.97	17.35	17.88	17.12	16.43	17.24	17.83	26.31	26.70	35.61	36.00
5240MHz	Pass	9.30	17.07	17.49	17.15	17.97	17.47	16.10	17.44	18.48	26.47	26.70	35.77	36.00
5745MHz	Pass	9.70	17.23	17.13	16.80	17.45	16.77	17.21	17.00	17.87	26.23	26.30	35.93	36.00
5785MHz	Pass	9.70	17.06	17.53	16.76	16.82	17.21	17.06	17.01	18.32	26.28	26.30	35.98	36.00
5825MHz	Pass	9.70	18.03	17.05	16.92	17.87	16.87	16.83	15.90	17.43	26.19	26.30	35.89	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.30	16.52	17.75	16.81	17.98	17.23	17.18	17.26	18.34	26.45	26.70	35.75	36.00
5230MHz	Pass	9.30	16.80	17.74	16.57	17.81	17.65	17.67	17.48	18.26	26.56	26.70	35.86	36.00
5755MHz	Pass	9.70	17.44	16.88	15.78	17.50	16.46	16.29	16.69	17.57	25.90	26.30	35.60	36.00
5795MHz	Pass	9.70	17.50	16.95	16.31	17.36	16.65	16.49	16.29	17.59	25.95	26.30	35.65	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.30	17.35	17.70	17.45	18.07	17.34	17.25	17.24	18.42	26.65	26.70	35.95	36.00
5775MHz	Pass	9.70	17.28	17.59	16.44	17.13	17.42	17.16	17.01	17.67	26.26	26.30	35.96	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	28.80	0.75858	35.40	3.46737
5.725-5.85GHz	29.14	0.82035	35.84	3.83707
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.37	0.86497	35.97	3.95367
5.725-5.85GHz	29.25	0.84140	35.95	3.93550
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	28.80	0.75858	35.40	3.46737
5.725-5.85GHz	26.39	0.43551	33.09	2.03704



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.60	19.36	19.66	19.75	20.05	18.94	18.90	19.02	19.41	28.43	29.40	35.03	36.00
5200MHz	Pass	6.60	19.72	20.37	19.72	20.57	18.97	18.26	19.15	19.88	28.67	29.40	35.27	36.00
5240MHz	Pass	6.60	19.71	19.97	19.93	20.55	19.32	19.12	19.28	20.10	28.80	29.40	35.40	36.00
5745MHz	Pass	6.70	20.43	20.50	19.69	20.41	19.90	19.85	19.58	20.42	29.14	29.30	35.84	36.00
5785MHz	Pass	6.70	20.02	19.50	18.43	19.44	18.14	18.39	17.92	19.48	28.01	29.30	34.71	36.00
5825MHz	Pass	6.70	19.18	18.46	18.07	18.93	17.52	17.45	17.32	18.05	27.20	29.30	33.90	36.00
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.60	19.17	20.92	19.22	21.11	20.05	19.60	20.30	21.29	29.31	29.40	35.91	36.00
5230MHz	Pass	6.60	20.22	20.22	19.91	20.12	20.31	19.73	20.57	21.39	29.37	29.40	35.97	36.00
5755MHz	Pass	6.70	20.59	19.87	19.92	20.13	19.61	20.00	19.05	20.49	29.01	29.30	35.71	36.00
5795MHz	Pass	6.70	20.52	19.17	19.25	20.05	20.28	20.70	19.60	21.61	29.25	29.30	35.95	36.00
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.60	19.26	20.25	19.44	19.98	19.58	18.98	20.01	20.42	28.80	29.40	35.40	36.00
5775MHz	Pass	6.70	17.48	17.12	16.76	17.96	16.89	17.19	16.74	18.44	26.39	29.30	33.09	36.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11a_(6Mbps)_8TX	-	-
5.15-5.25GHz	13.44	22.74
5.725-5.85GHz	13.87	23.57
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	13.62	22.92
5.725-5.85GHz	14.08	23.78
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	13.18	22.48
5.725-5.85GHz	9.98	19.68
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	7.49	16.79
5.725-5.85GHz	4.50	14.20

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.30	4.34	5.33	3.82	4.71	4.24	4.47	4.26	5.08	13.39	13.70	22.69	Inf
5200MHz	Pass	9.30	4.26	4.90	4.00	4.65	4.23	4.35	4.04	5.05	13.19	13.70	22.49	Inf
5240MHz	Pass	9.30	4.60	5.20	4.56	4.80	4.57	4.68	4.29	5.54	13.44	13.70	22.74	Inf
5745MHz	Pass	9.70	5.34	5.80	5.16	5.17	4.98	4.11	5.46	6.05	13.87	26.30	23.57	Inf
5785MHz	Pass	9.70	4.92	4.97	4.17	5.11	4.14	3.67	4.71	5.26	13.16	26.30	22.86	Inf
5825MHz	Pass	9.70	4.83	4.82	4.12	4.91	3.80	3.52	4.49	4.72	13.03	26.30	22.73	Inf
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.30	4.43	5.16	4.20	4.80	4.19	4.32	3.95	4.67	13.38	13.70	22.68	Inf
5200MHz	Pass	9.30	4.45	5.26	4.45	5.01	4.28	4.13	3.95	4.84	13.47	13.70	22.77	Inf
5240MHz	Pass	9.30	5.01	5.16	4.69	4.93	4.56	4.29	3.76	5.21	13.62	13.70	22.92	Inf
5745MHz	Pass	9.70	5.67	6.20	5.42	5.29	4.85	4.12	5.76	6.08	14.08	26.30	23.78	Inf
5785MHz	Pass	9.70	4.09	4.09	3.47	4.36	2.98	2.15	3.28	3.87	12.33	26.30	22.03	Inf
5825MHz	Pass	9.70	3.67	3.67	3.10	4.30	2.87	2.20	3.06	3.45	12.05	26.30	21.75	Inf
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.30	1.17	1.83	0.79	1.50	0.84	0.97	0.64	1.75	10.23	13.70	19.53	Inf
5230MHz	Pass	9.30	4.05	4.70	3.83	4.36	4.08	4.00	3.33	4.91	13.18	13.70	22.48	Inf
5755MHz	Pass	9.70	1.54	1.84	1.02	1.86	0.70	-0.37	0.89	1.54	9.98	26.30	19.68	Inf
5795MHz	Pass	9.70	1.47	1.59	0.78	1.85	0.78	-0.59	0.79	1.37	9.88	26.30	19.58	Inf
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.30	-1.56	-1.11	-1.66	-1.27	-1.87	-1.57	-2.36	-0.98	7.49	13.70	16.79	Inf
5775MHz	Pass	9.70	-3.88	-3.86	-4.60	-3.66	-4.77	-5.58	-4.63	-3.68	4.50	26.30	14.20	Inf

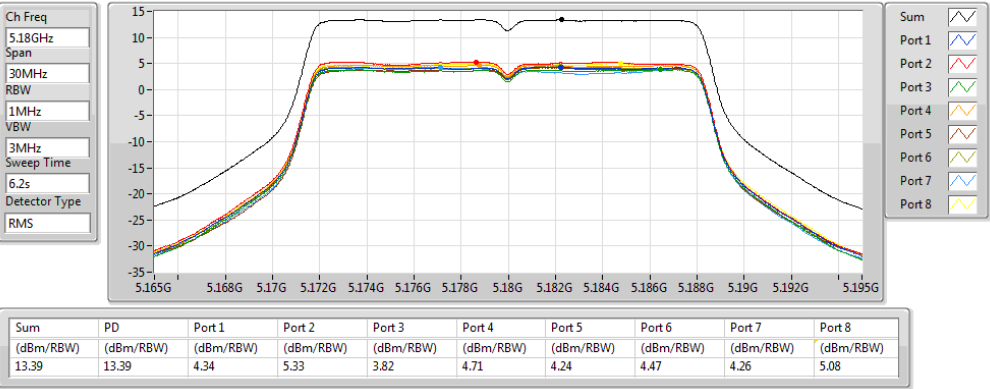
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;



802.11a_(6Mbps)_8TX

PSD

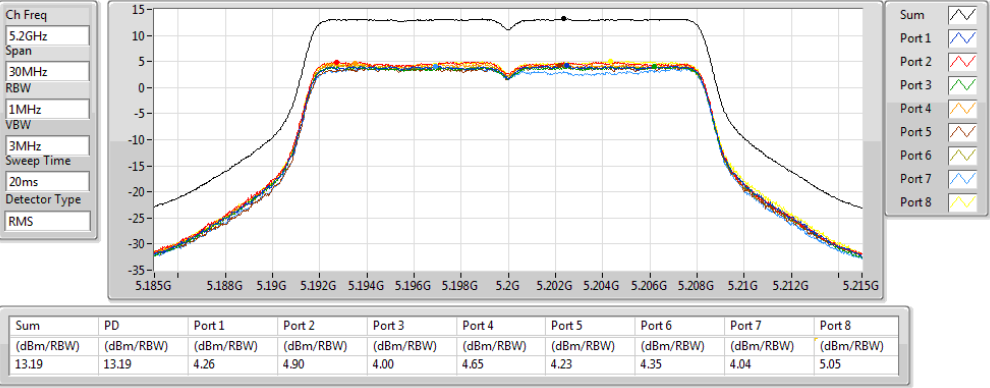
5180MHz



802.11a_(6Mbps)_8TX

PSD

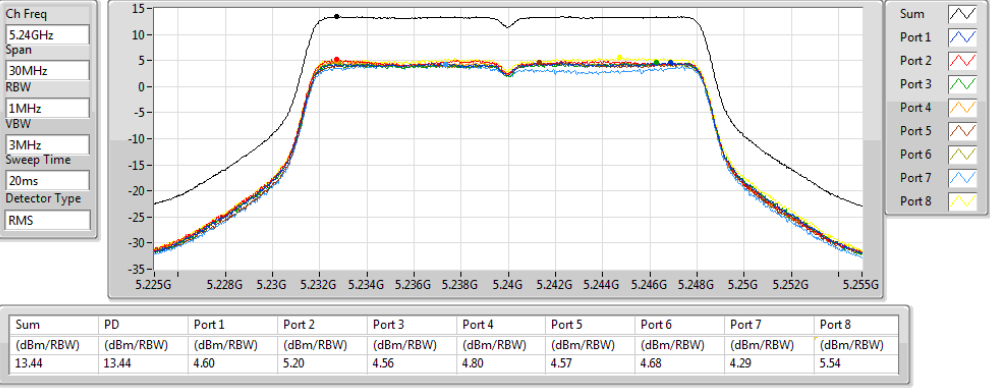
5200MHz



802.11a_(6Mbps)_8TX

PSD

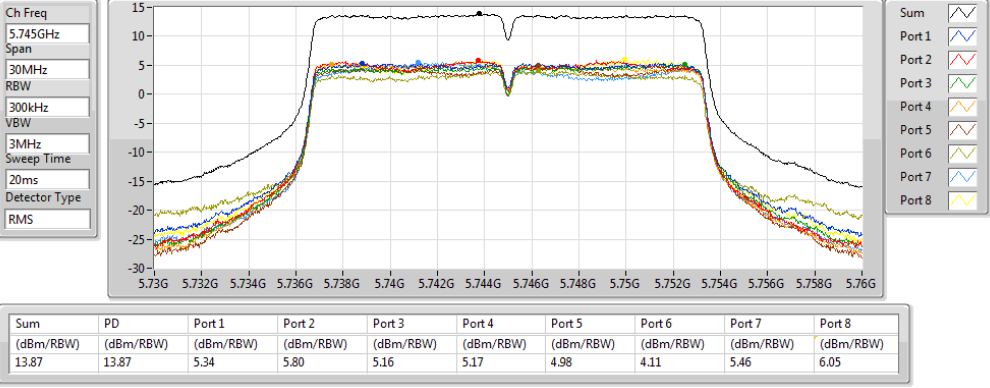
5240MHz



802.11a_(6Mbps)_8TX

PSD

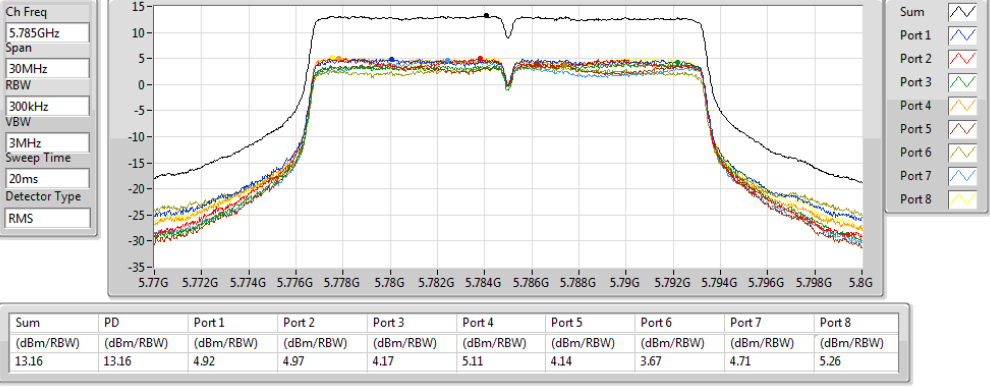
5745MHz



802.11a_(6Mbps)_8TX

PSD

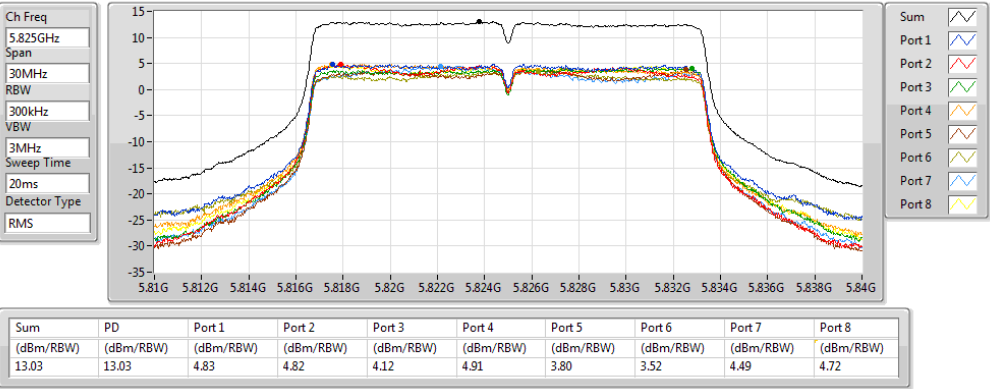
5785MHz



802.11a_(6Mbps)_8TX

PSD

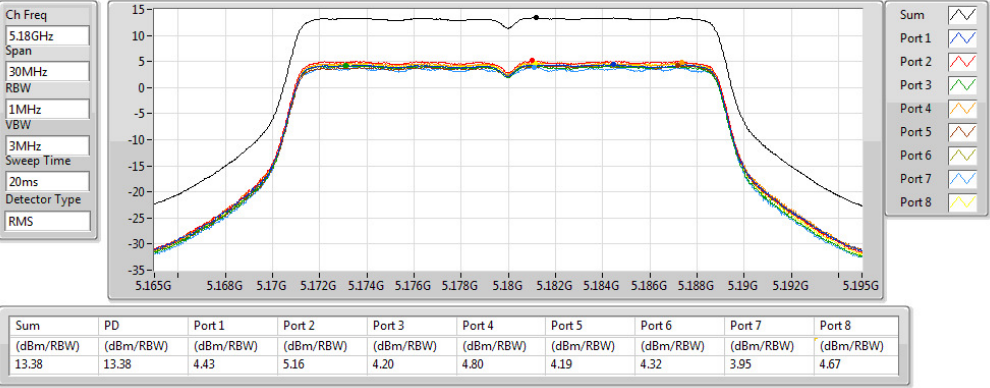
5825MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

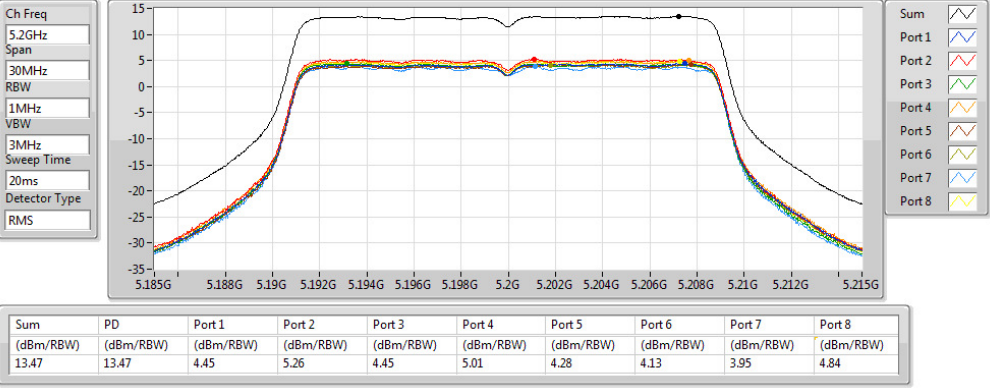
5180MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

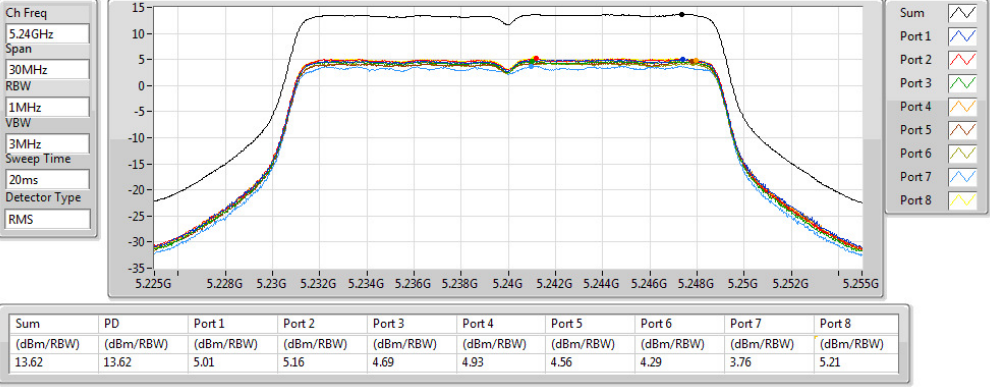
5200MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

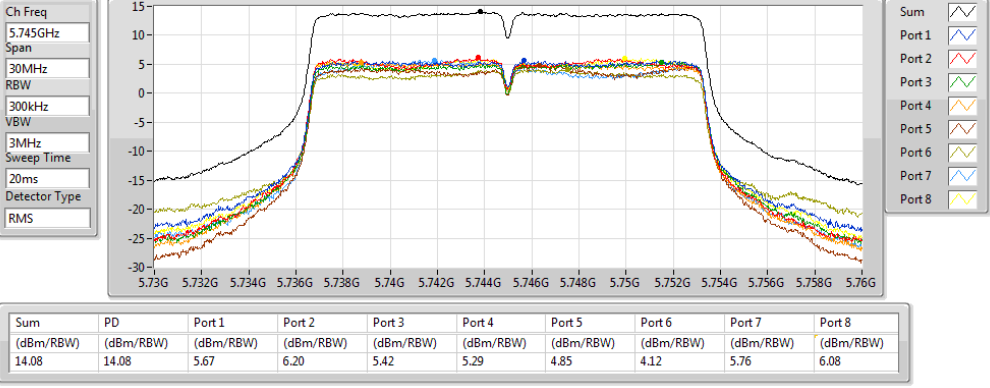
5240MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

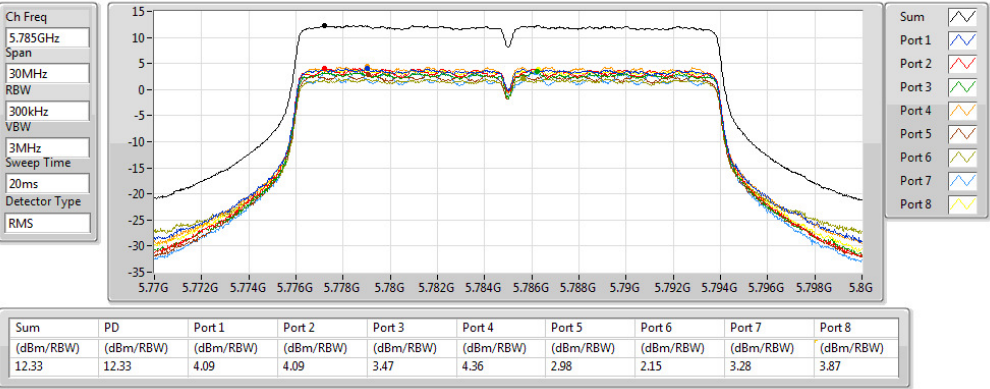
5745MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

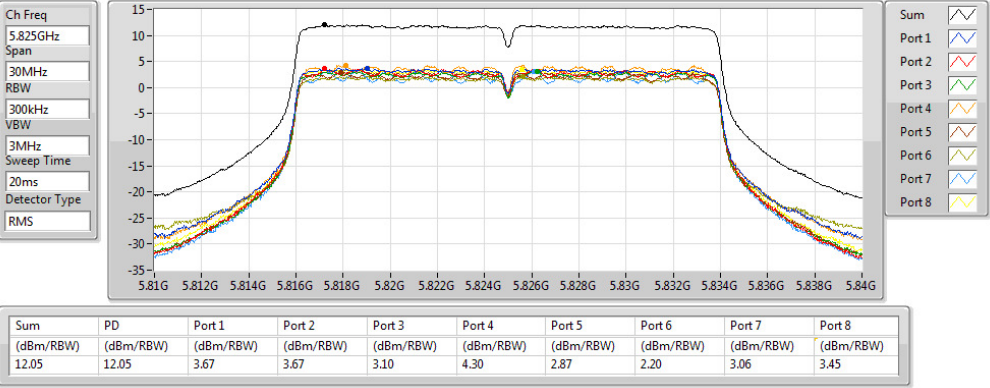
5785MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

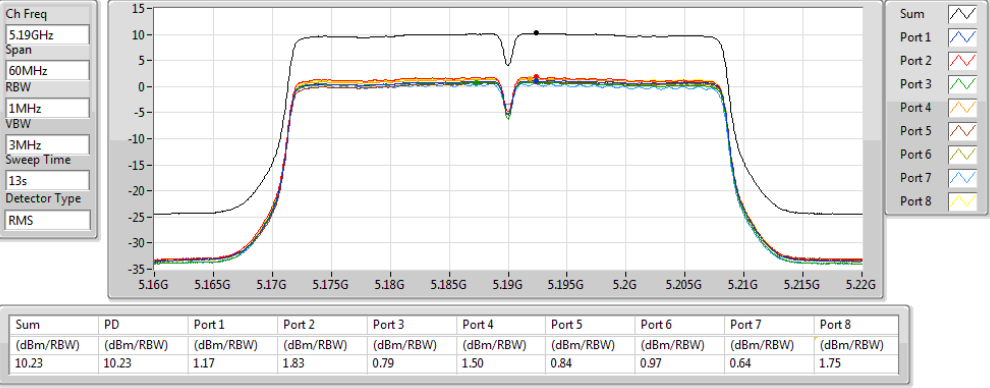
5825MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

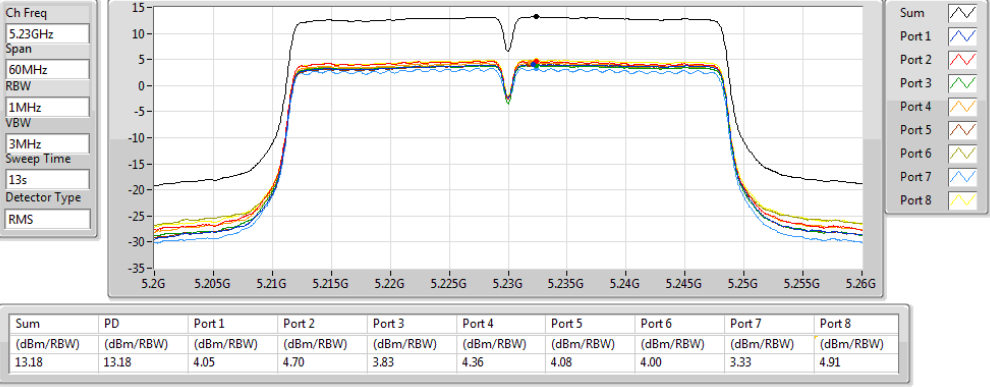
5190MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

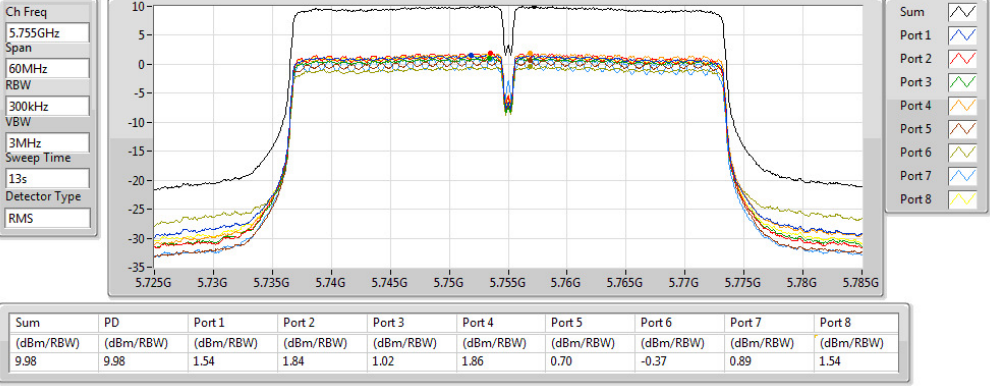
5230MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

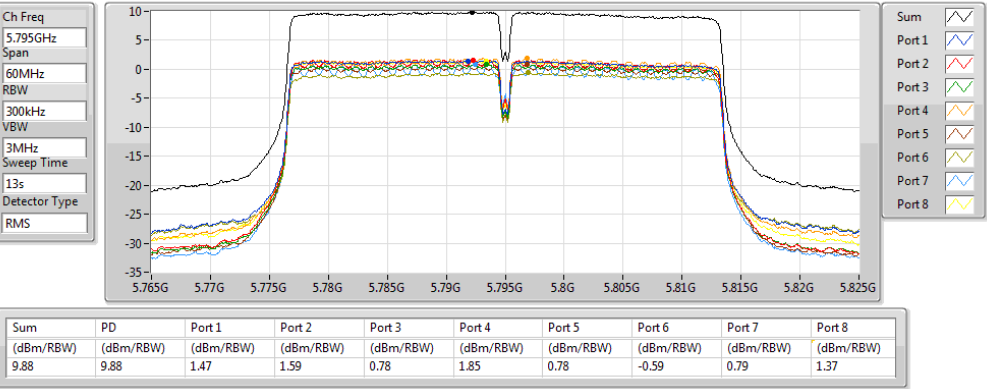
5755MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

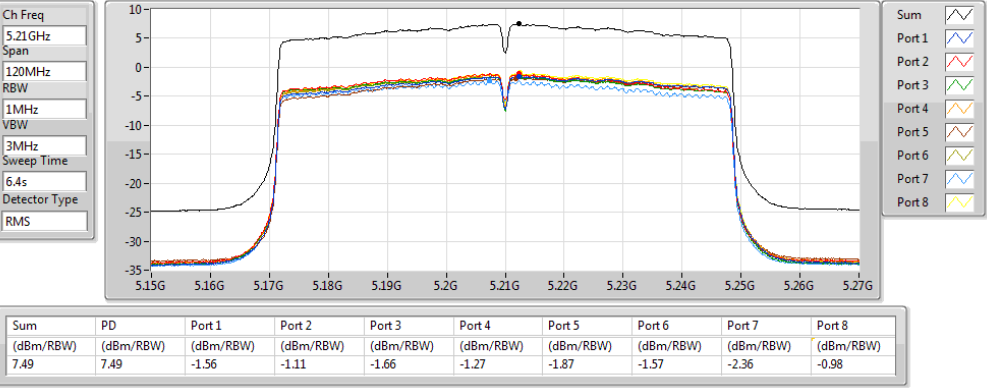
5795MHz



802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

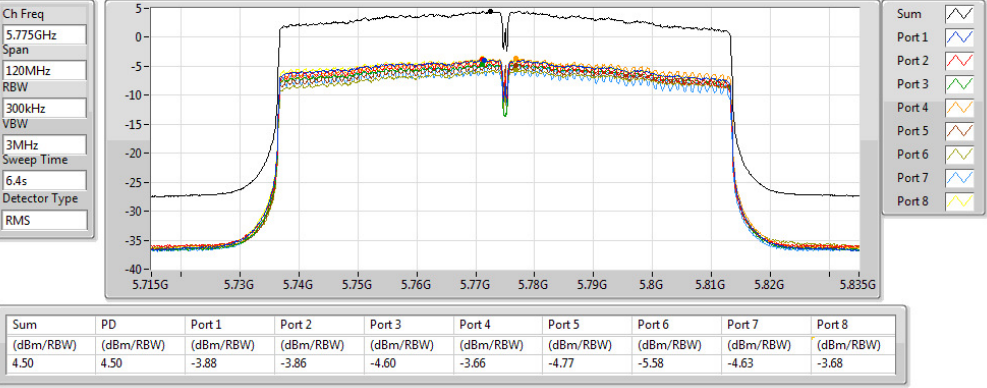
5210MHz



802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

5775MHz





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	16.33	22.93
5.725-5.85GHz	13.62	20.32
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	14.31	20.91
5.725-5.85GHz	12.29	18.99
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	7.47	14.07
5.725-5.85GHz	8.37	15.07

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.60	7.71	8.53	7.64	8.53	7.55	7.51	7.82	8.64	16.16	16.40	22.76	Inf
5200MHz	Pass	6.60	8.60	8.69	7.57	8.66	7.54	8.25	7.82	8.93	16.32	16.40	22.92	Inf
5240MHz	Pass	6.60	8.44	8.58	7.86	8.49	7.87	7.71	8.05	9.43	16.33	16.40	22.93	Inf
5745MHz	Pass	6.70	6.38	5.92	5.68	6.45	5.19	5.47	6.00	7.41	13.53	29.30	20.23	Inf
5785MHz	Pass	6.70	6.20	6.54	6.14	6.77	5.49	4.82	5.96	6.71	13.51	29.30	20.21	Inf
5825MHz	Pass	6.70	7.12	6.68	5.19	7.92	6.04	4.71	5.73	6.36	13.62	29.30	20.32	Inf
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.60	2.75	2.35	1.45	3.10	1.99	1.85	1.77	3.24	10.42	16.40	17.02	Inf
5230MHz	Pass	6.60	7.03	6.63	5.20	6.00	5.69	6.29	5.42	6.87	14.31	16.40	20.91	Inf
5755MHz	Pass	6.70	5.25	6.07	3.61	4.83	3.46	1.89	3.40	5.48	12.29	29.30	18.99	Inf
5795MHz	Pass	6.70	4.25	3.96	3.31	5.12	2.73	3.51	4.15	4.99	11.42	29.30	18.12	Inf
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.60	-0.40	-0.39	-1.35	-0.14	-0.98	-0.23	-1.14	0.41	7.47	16.40	14.07	Inf
5775MHz	Pass	6.70	1.44	0.67	0.89	1.46	-0.11	-0.78	0.44	2.07	8.37	29.30	15.07	Inf

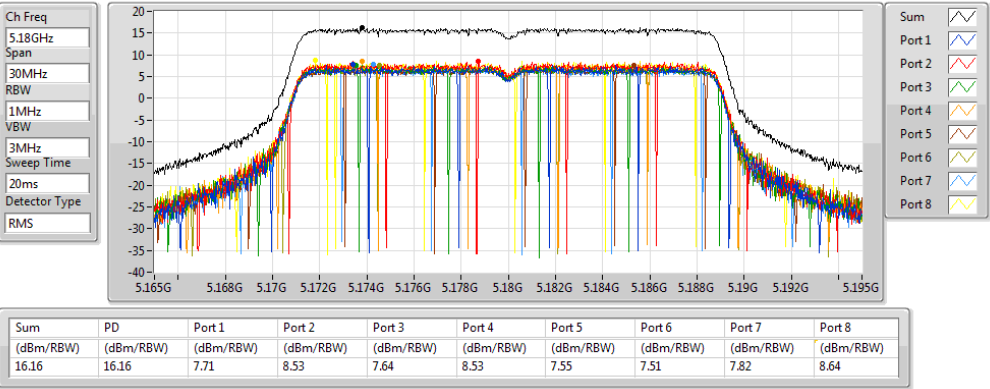
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

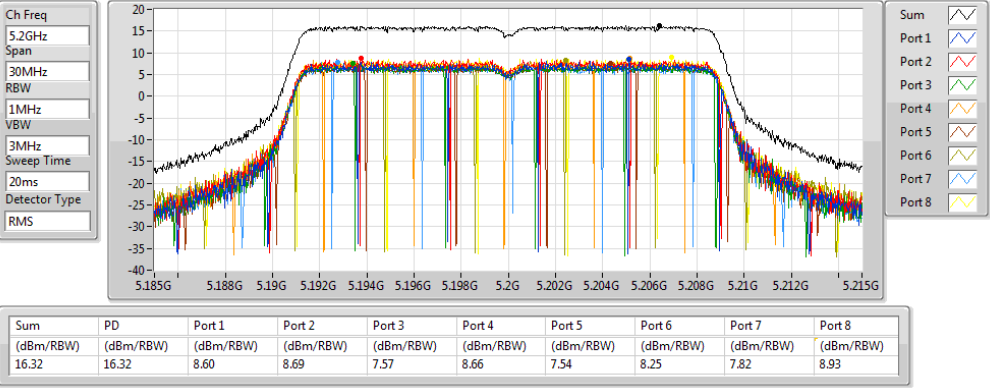
5180MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

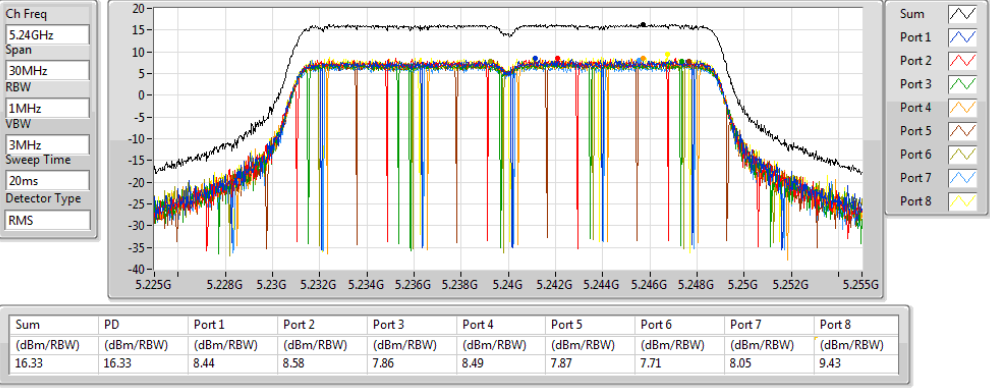
5200MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

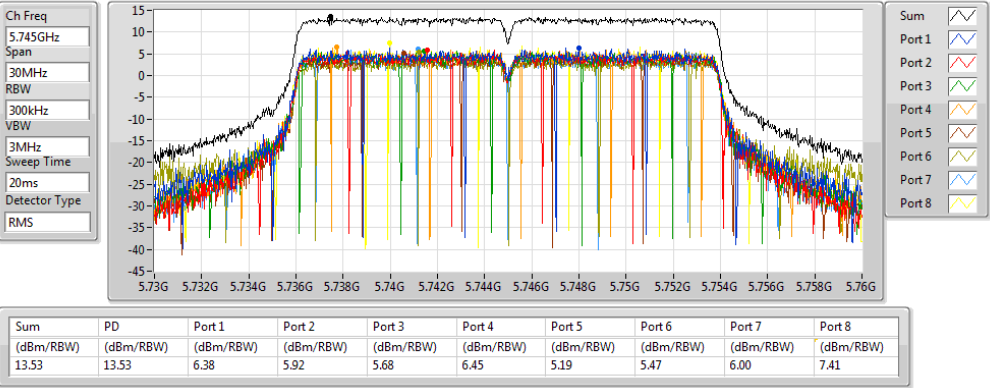
5240MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

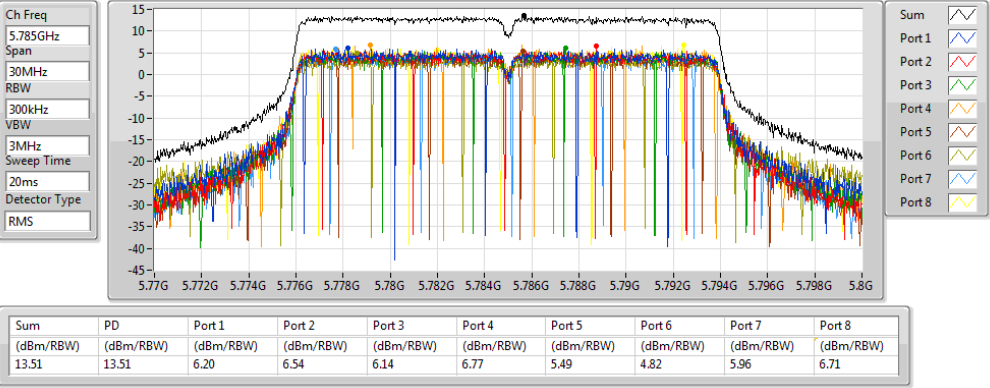
5745MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

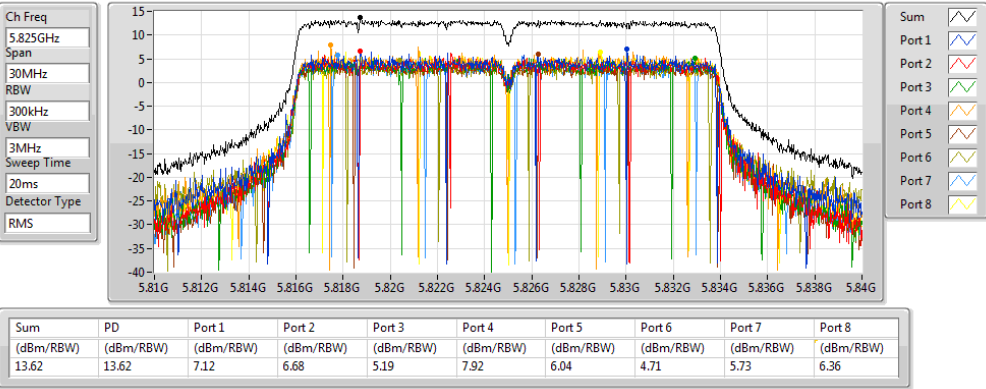
5785MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

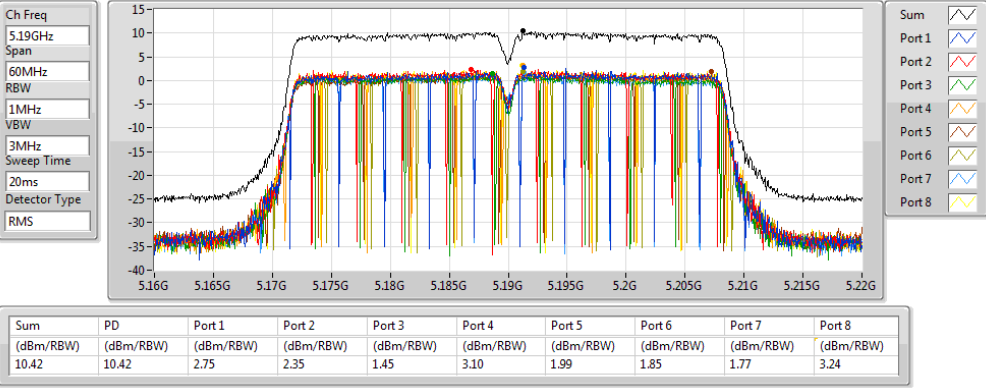
5825MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

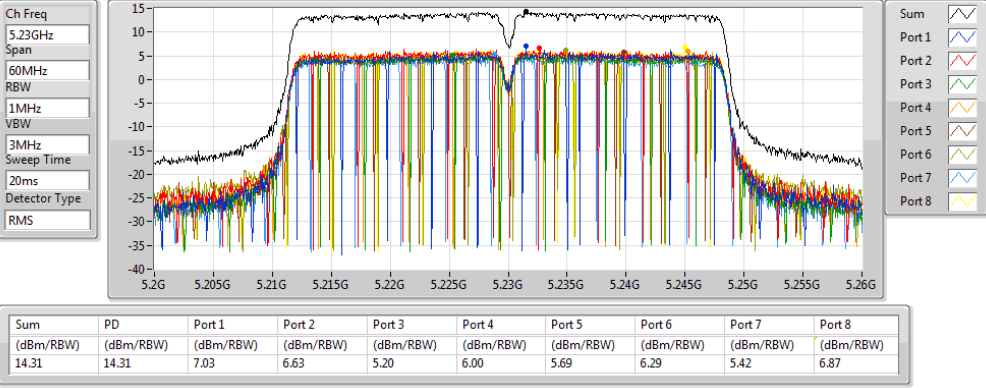
5190MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

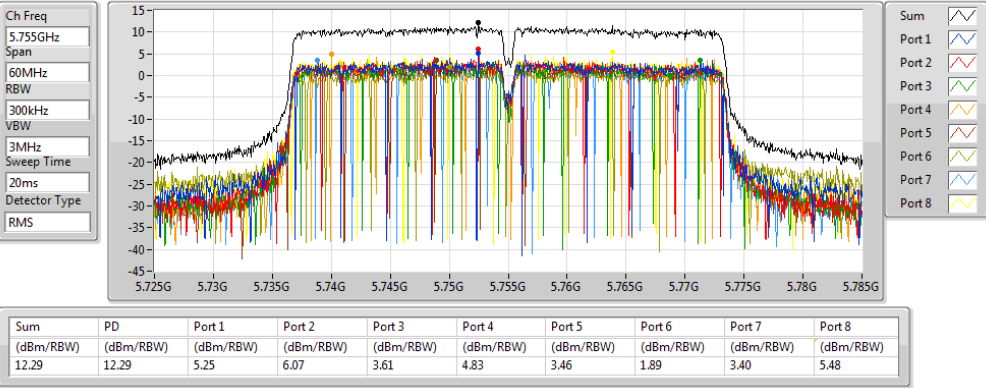
5230MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

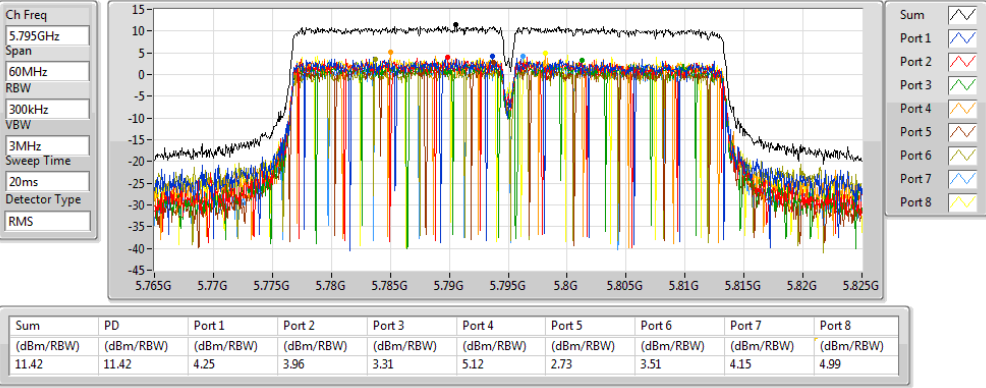
5755MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

5795MHz

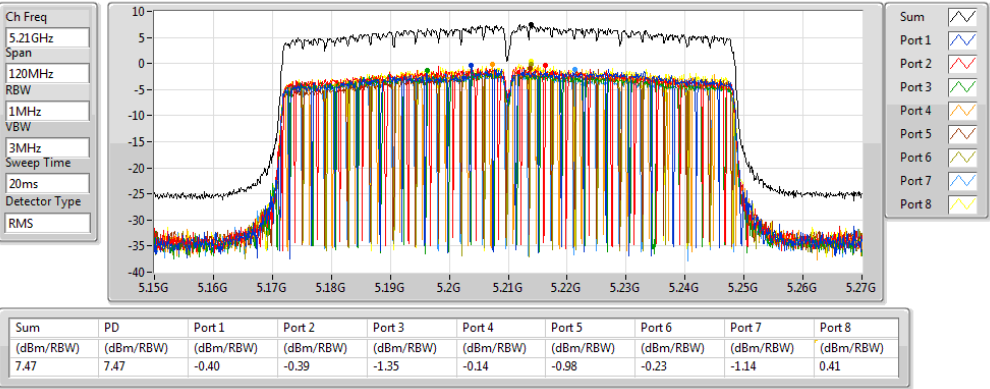




802.11ac VHT80_Nss2,(MCS0)_8TX

PSD

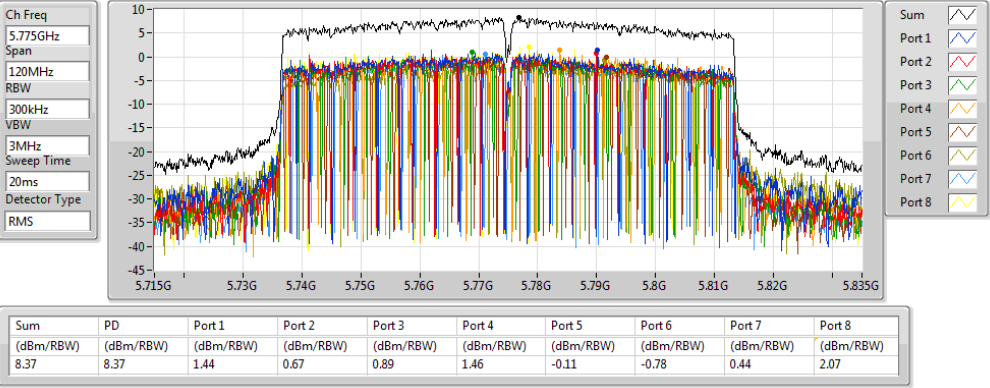
5210MHz



802.11ac VHT80_Nss2,(MCS0)_8TX

PSD

5775MHz





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	13.67	22.97
5.725-5.85GHz	13.31	23.01
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	11.37	20.67
5.725-5.85GHz	9.61	19.31
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-
5.15-5.25GHz	9.33	18.63
5.725-5.85GHz	8.03	17.73

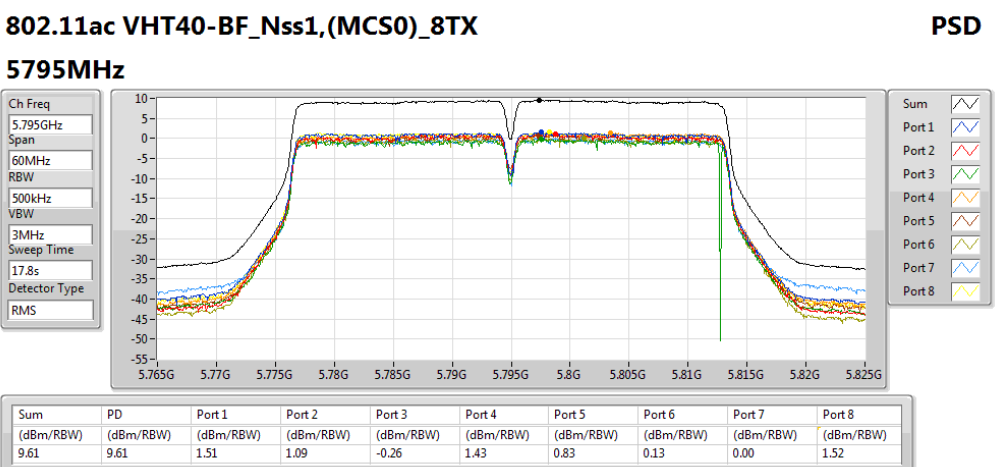
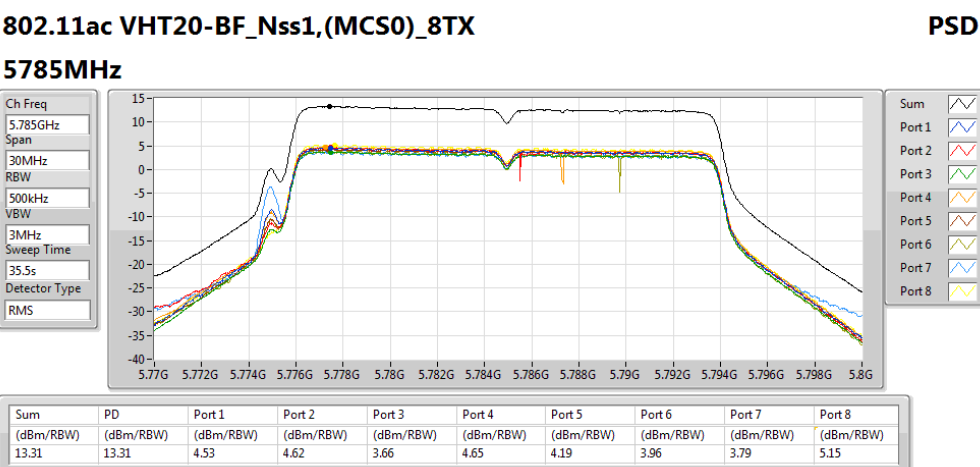
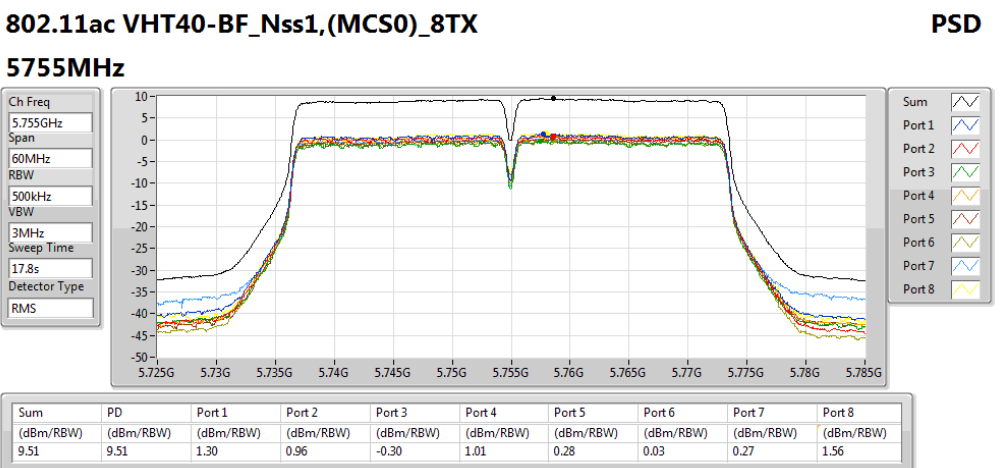
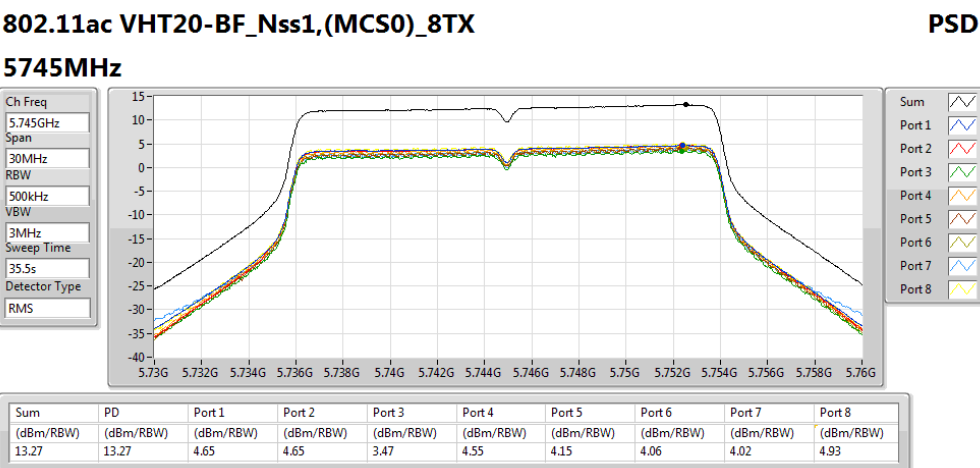
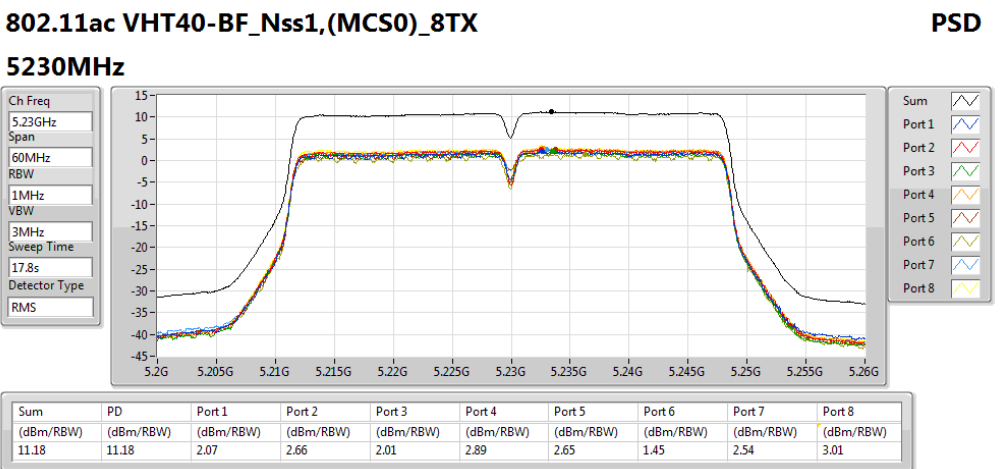
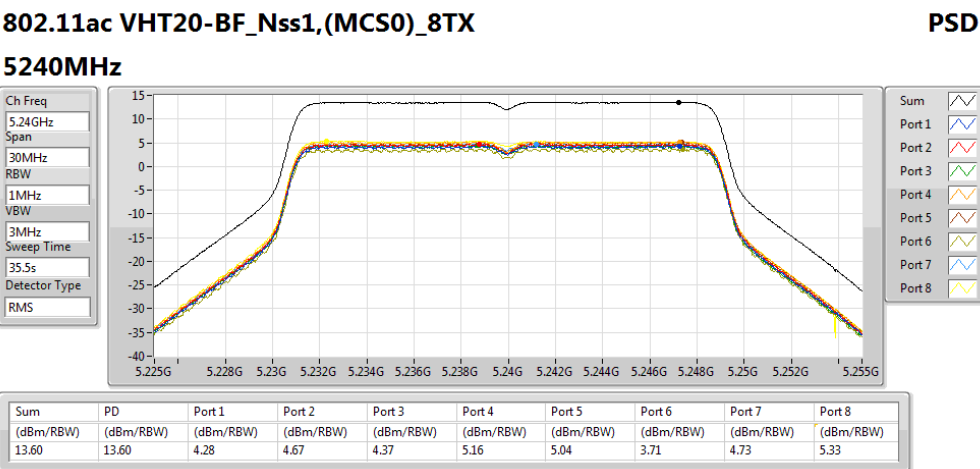
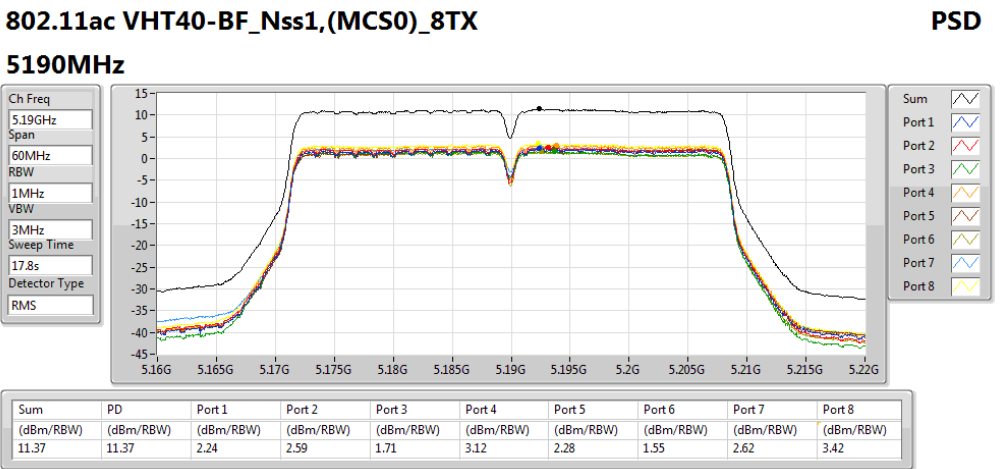
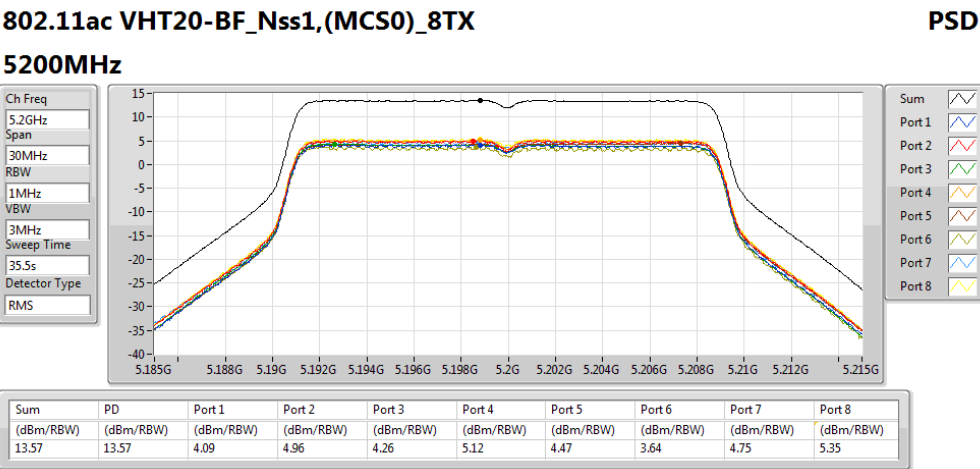
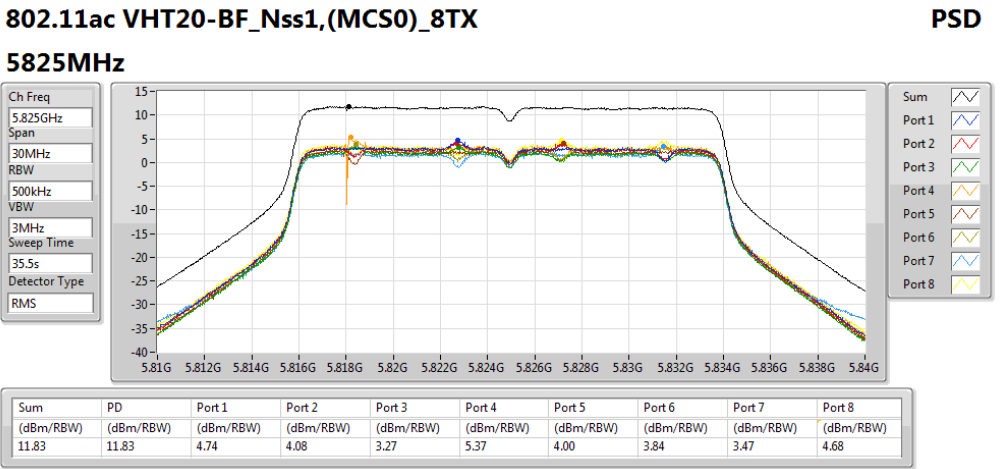
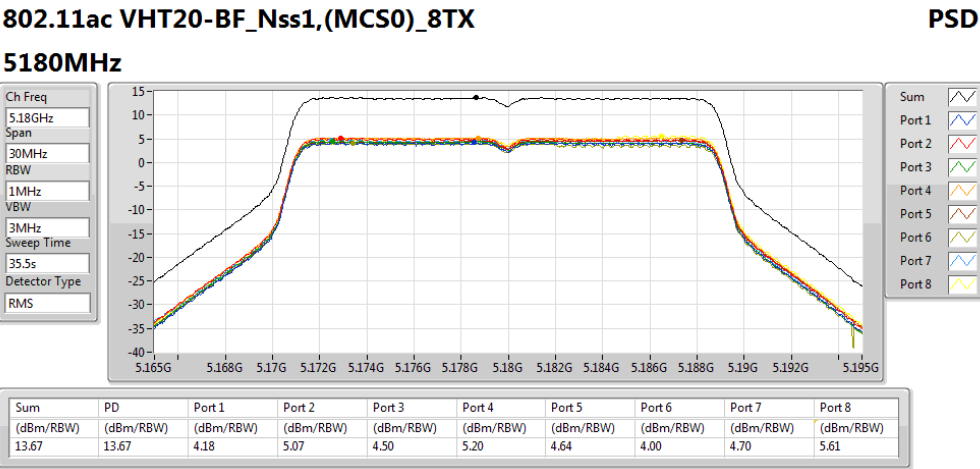
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.30	4.18	5.07	4.50	5.20	4.64	4.00	4.70	5.61	13.67	13.70	22.97	Inf
5200MHz	Pass	9.30	4.09	4.96	4.26	5.12	4.47	3.64	4.75	5.35	13.57	13.70	22.87	Inf
5240MHz	Pass	9.30	4.28	4.67	4.37	5.16	5.04	3.71	4.73	5.33	13.60	13.70	22.90	Inf
5745MHz	Pass	9.70	4.65	4.65	3.47	4.55	4.15	4.06	4.02	4.93	13.27	26.30	22.97	Inf
5785MHz	Pass	9.70	4.53	4.62	3.66	4.65	4.19	3.96	3.79	5.15	13.31	26.30	23.01	Inf
5825MHz	Pass	9.70	4.74	4.08	3.27	5.37	4.00	3.84	3.47	4.68	11.83	26.30	21.53	Inf
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.30	2.24	2.59	1.71	3.12	2.28	1.55	2.62	3.42	11.37	13.70	20.67	Inf
5230MHz	Pass	9.30	2.07	2.66	2.01	2.89	2.65	1.45	2.54	3.01	11.18	13.70	20.48	Inf
5755MHz	Pass	9.70	1.30	0.96	-0.30	1.01	0.28	0.03	0.27	1.56	9.51	26.30	19.21	Inf
5795MHz	Pass	9.70	1.51	1.09	-0.26	1.43	0.83	0.13	0.00	1.52	9.61	26.30	19.31	Inf
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.30	-0.28	0.74	-0.18	0.63	0.96	-0.67	0.55	0.89	9.33	13.70	18.63	Inf
5775MHz	Pass	9.70	-0.30	-0.39	-1.88	-0.15	-0.90	-1.29	-1.40	-0.25	8.03	26.30	17.73	Inf

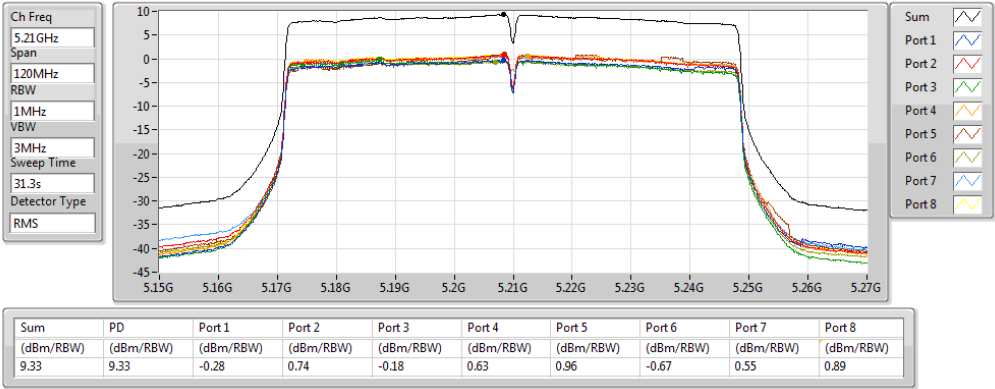
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;



802.11ac VHT80-BF_Nss1,(MCS0)_8TX

PSD

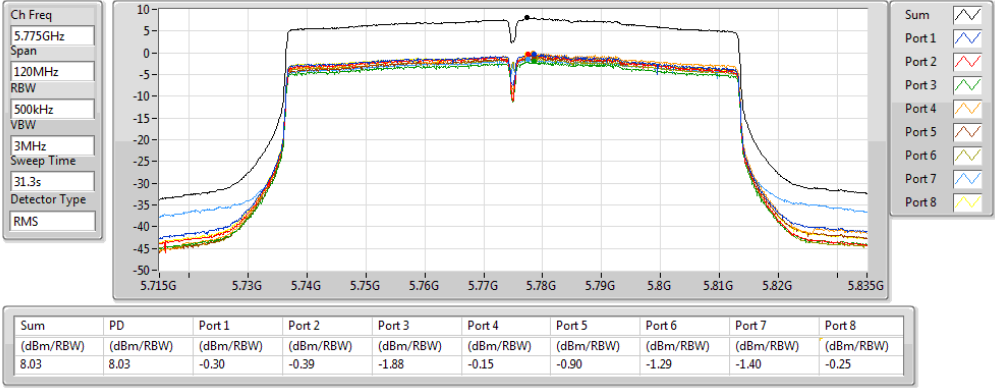
5210MHz



802.11ac VHT80-BF_Nss1,(MCS0)_8TX

PSD

5775MHz





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	16.37	22.97
5.725-5.85GHz	15.85	22.55
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	14.62	21.22
5.725-5.85GHz	13.47	20.17
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	11.22	17.82
5.725-5.85GHz	7.87	14.57

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



Result

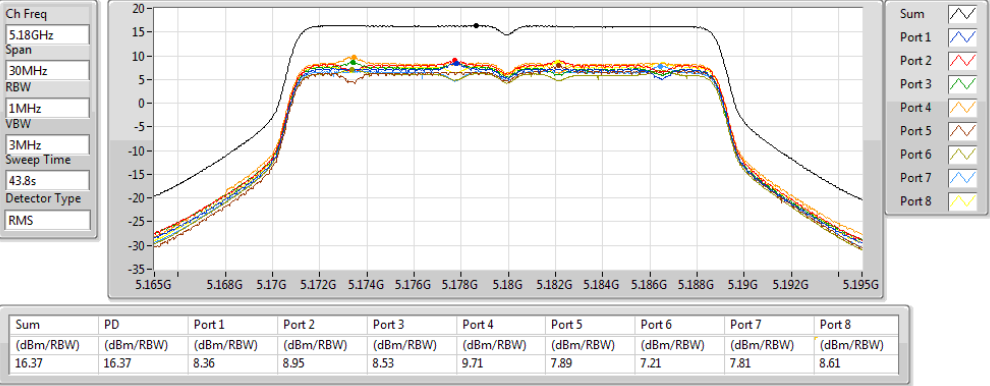
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.60	8.36	8.95	8.53	9.71	7.89	7.21	7.81	8.61	16.37	16.40	22.97	Inf
5200MHz	Pass	6.60	8.18	9.27	8.44	9.32	8.12	7.19	7.78	8.64	16.35	16.40	22.95	Inf
5240MHz	Pass	6.60	8.37	8.81	8.29	9.39	7.99	7.13	7.84	8.32	16.24	16.40	22.84	Inf
5745MHz	Pass	6.70	8.90	8.27	7.07	8.52	7.92	8.16	7.70	8.65	15.85	29.30	22.55	Inf
5785MHz	Pass	6.70	8.04	7.78	6.70	7.75	6.27	6.44	6.23	7.11	14.77	29.30	21.47	Inf
5825MHz	Pass	6.70	7.07	6.36	5.55	6.99	5.48	5.61	5.25	6.04	13.75	29.30	20.45	Inf
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.60	6.26	6.56	5.72	7.20	5.90	6.03	6.58	7.19	14.62	16.40	21.22	Inf
5230MHz	Pass	6.60	6.09	6.52	5.97	7.06	6.12	5.92	6.10	6.83	14.56	16.40	21.16	Inf
5755MHz	Pass	6.70	6.13	6.03	4.99	6.27	4.32	4.92	4.17	5.42	13.37	29.30	20.07	Inf
5795MHz	Pass	6.70	4.96	5.51	4.32	5.65	5.91	6.04	5.13	6.85	13.47	29.30	20.17	Inf
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.60	2.36	3.25	2.35	3.69	3.11	2.43	3.29	3.88	11.22	16.40	17.82	Inf
5775MHz	Pass	6.70	0.21	-0.13	-1.11	0.63	-0.74	0.43	-0.29	0.60	7.87	29.30	14.57	Inf

DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

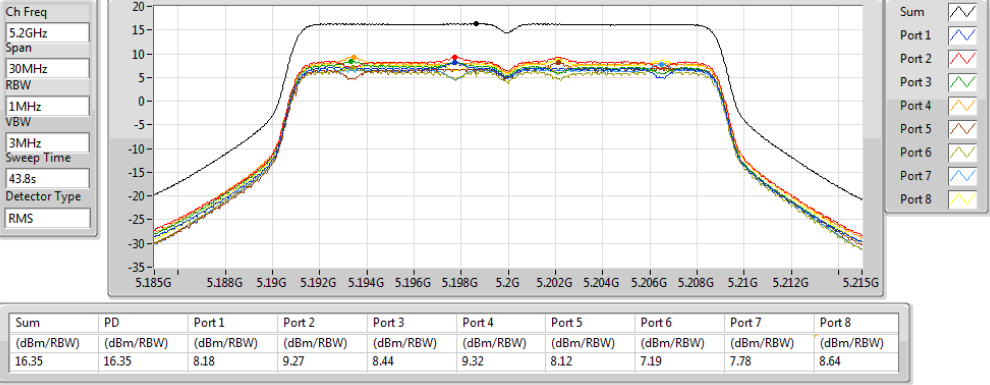
5180MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

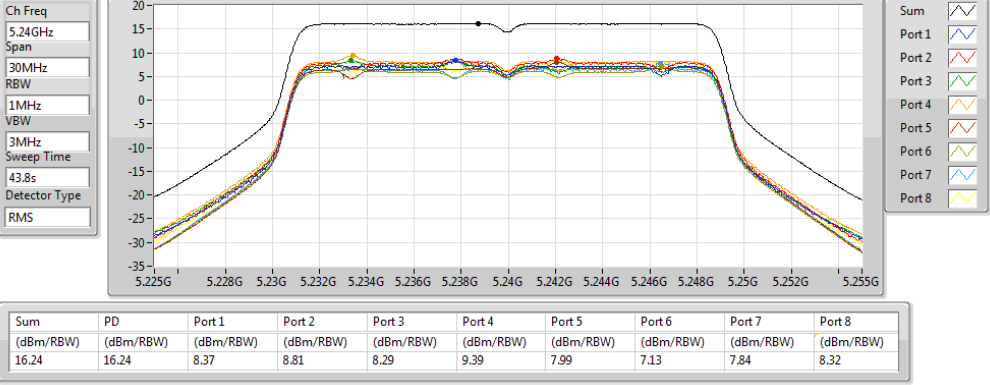
5200MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

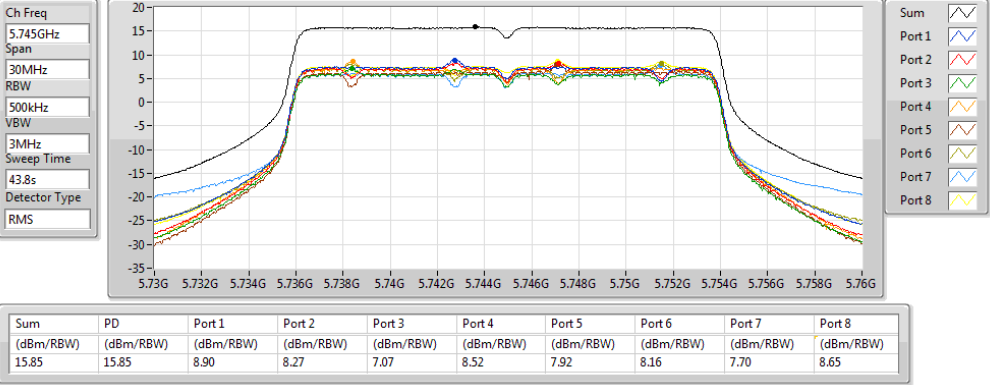
5240MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

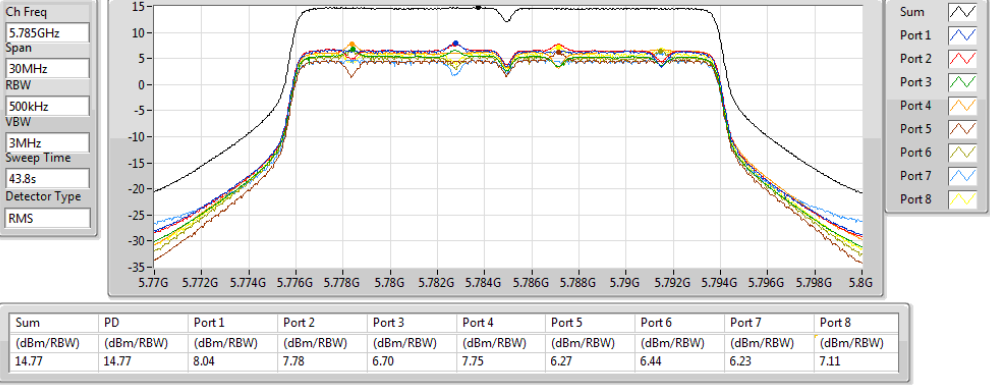
5745MHz



802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

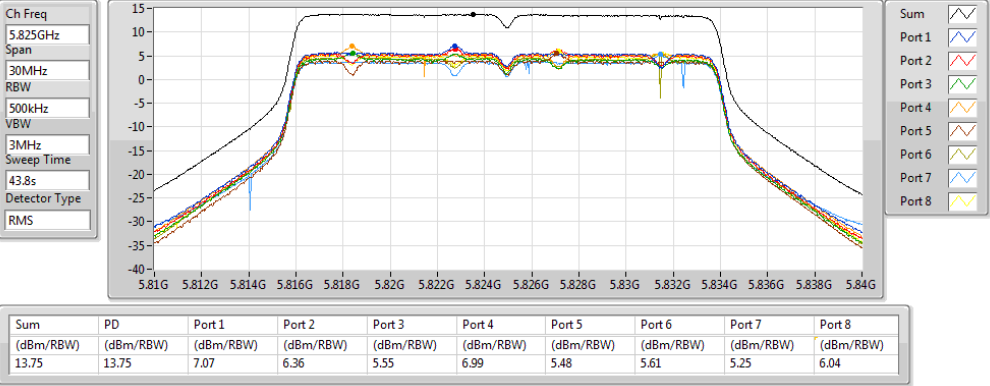
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802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

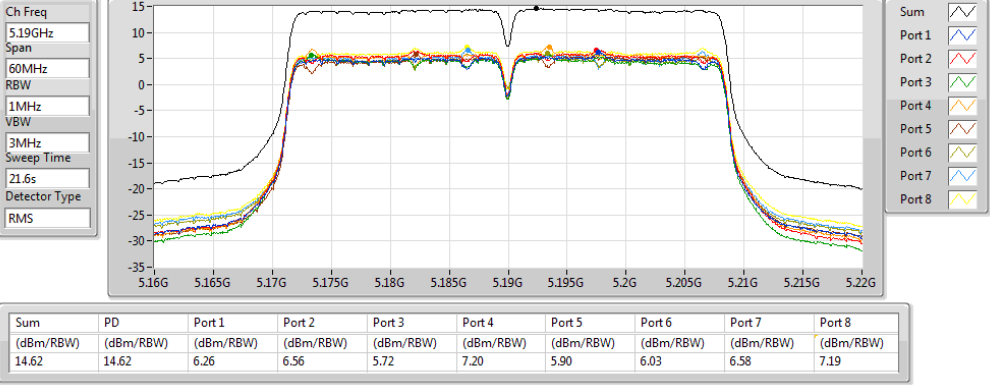
5825MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

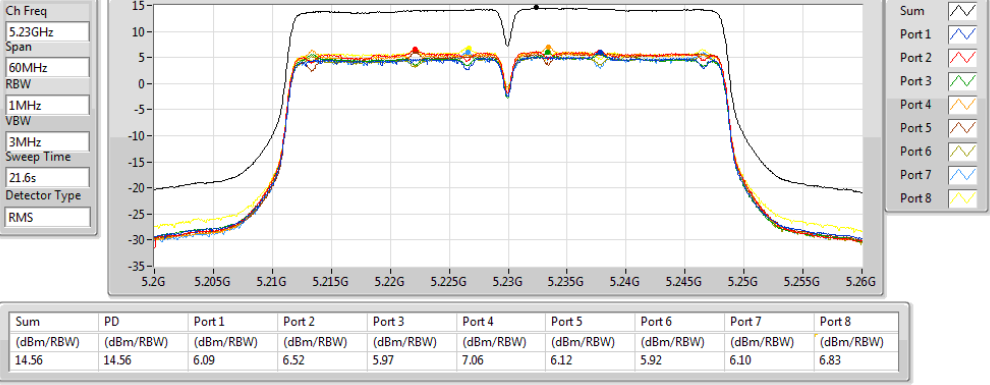
5190MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

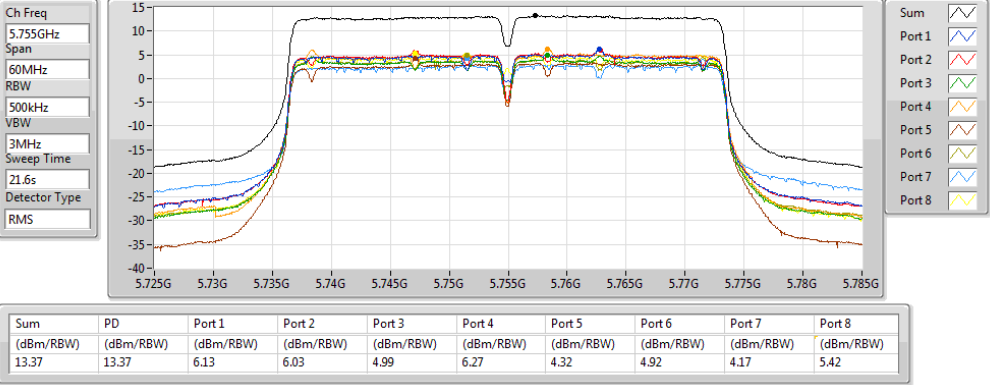
5230MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

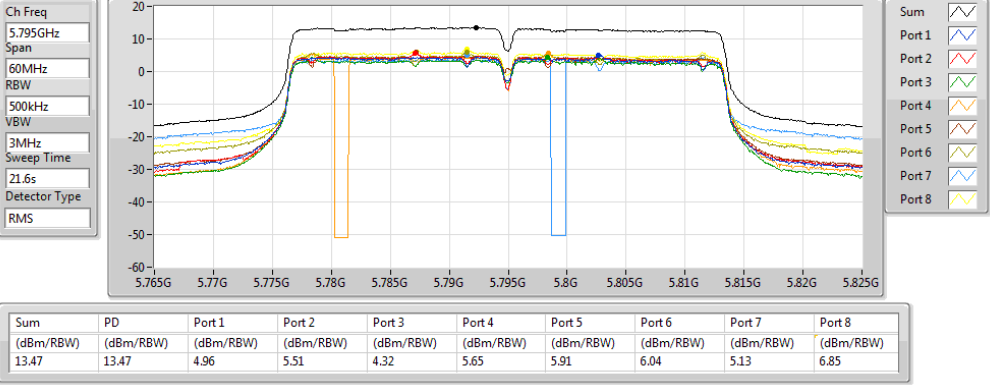
5755MHz



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

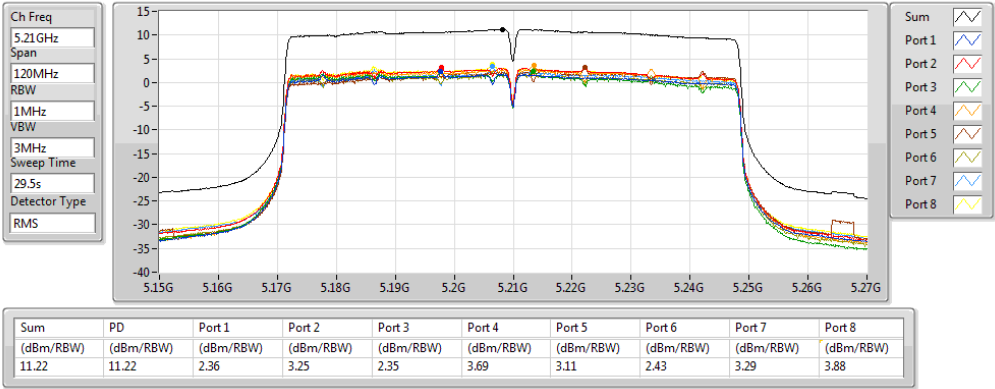
5795MHz



802.11ac VHT80-BF_Nss2,(MCS0)_8TX

PSD

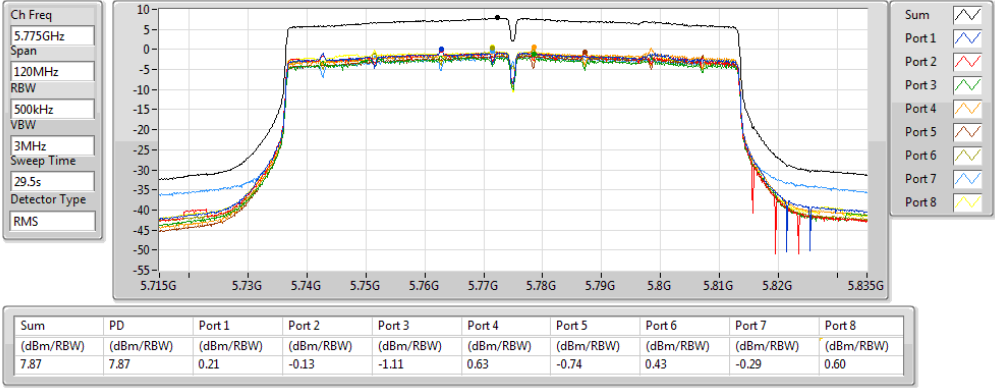
5210MHz



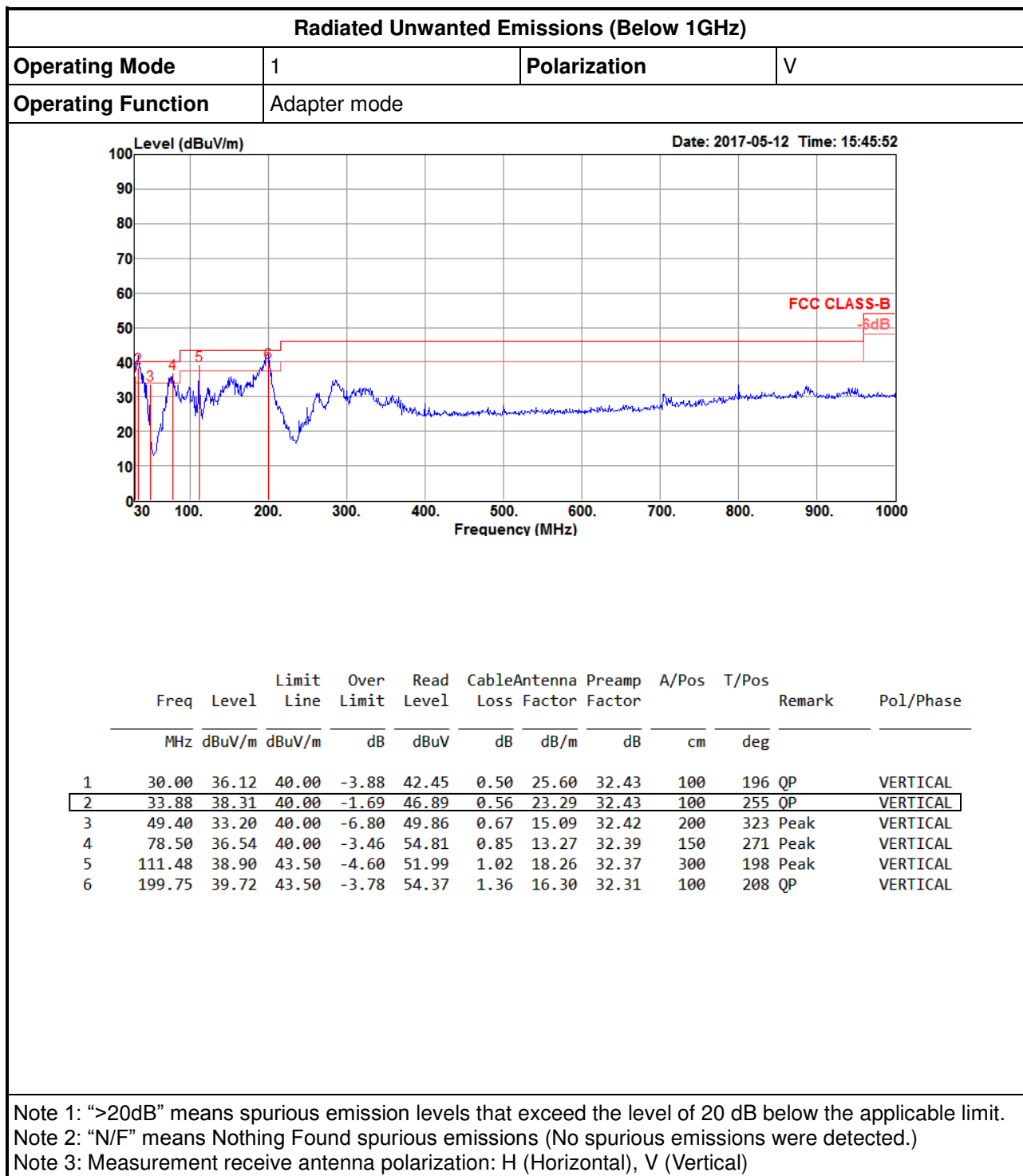
802.11ac VHT80-BF_Nss2,(MCS0)_8TX

PSD

5775MHz

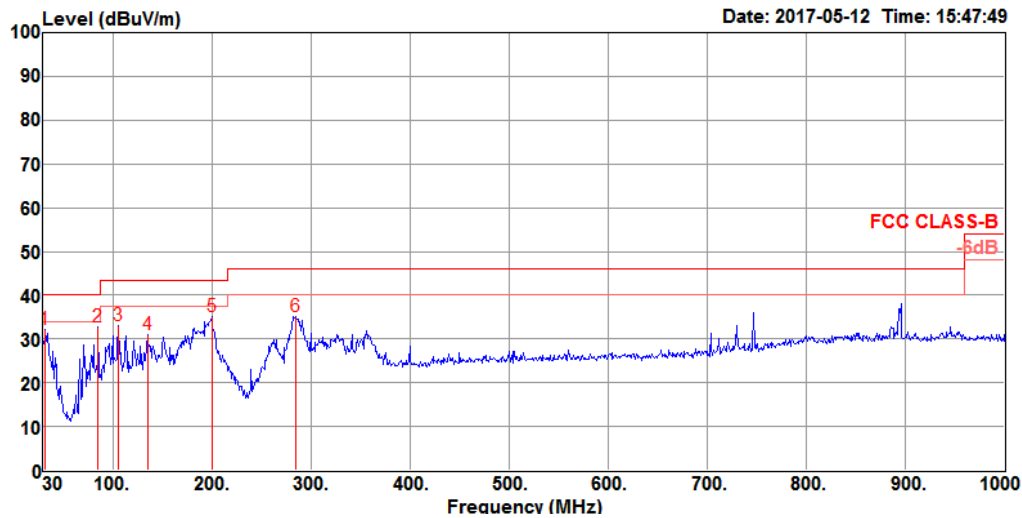


Transmitter Radiated Unwanted Emissions (Below 1GHz)



Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	Adapter mode		



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	32.26	40.00	-7.74	39.75	0.53	24.41	32.43	100	278	Peak	HORIZONTAL
2	85.29	32.62	40.00	-7.38	49.72	0.91	14.38	32.39	200	180	Peak	HORIZONTAL
3	105.66	32.92	43.50	-10.58	46.56	1.00	17.73	32.37	125	310	Peak	HORIZONTAL
4	134.76	30.91	43.50	-12.59	44.03	1.11	18.12	32.35	125	163	Peak	HORIZONTAL
5	199.75	35.17	43.50	-8.33	49.82	1.36	16.30	32.31	250	280	Peak	HORIZONTAL
6	284.14	35.18	46.00	-10.82	46.47	1.61	19.38	32.28	150	77	Peak	HORIZONTAL

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

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

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	AV	10.36G	53.55	54.00	-0.45	12.30	3	V	12	3.60	-
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5.725-5.85GHz	Pass	PK	5.634G	67.57	68.20	-0.63	3.33	3	V	281	2.16	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	50.99	54.00	-3.01	2.69	3	H	193	1.34	-
5180MHz	Pass	AV	5.175G	107.31	Inf	-Inf	2.72	3	H	193	1.34	-
5180MHz	Pass	PK	5.149G	67.32	74.00	-6.68	2.69	3	H	193	1.34	-
5180MHz	Pass	PK	5.1742G	119.60	Inf	-Inf	2.72	3	H	193	1.34	-
5180MHz	Pass	AV	5.149995G	53.31	54.00	-0.69	2.69	3	V	115	1.84	-
5180MHz	Pass	AV	5.1722G	107.05	Inf	-Inf	2.72	3	V	115	1.84	-
5180MHz	Pass	PK	5.1498G	68.94	74.00	-5.06	2.69	3	V	115	1.84	-
5180MHz	Pass	PK	5.1724G	119.27	Inf	-Inf	2.72	3	V	115	1.84	-
5180MHz	Pass	AV	10.36G	52.33	54.00	-1.67	12.30	3	H	14	1.47	-
5180MHz	Pass	PK	10.36G	59.07	74.00	-14.93	12.30	3	H	14	1.47	-
5180MHz	Pass	AV	10.36G	52.50	54.00	-1.50	12.30	3	V	8	3.59	-
5180MHz	Pass	PK	10.36G	58.89	74.00	-15.11	12.30	3	V	8	3.59	-
5200MHz	Pass	AV	5.149995G	50.79	54.00	-3.21	7.15	3	H	187	1.38	-
5200MHz	Pass	AV	5.1948G	110.39	Inf	-Inf	7.25	3	H	187	1.38	-
5200MHz	Pass	PK	5.138G	63.18	74.00	-10.82	7.12	3	H	187	1.38	-
5200MHz	Pass	PK	5.1948G	118.88	Inf	-Inf	7.25	3	H	187	1.38	-
5200MHz	Pass	AV	5.149995G	51.67	54.00	-2.33	7.15	3	V	110	1.75	-
5200MHz	Pass	AV	5.1924G	109.87	Inf	-Inf	7.24	3	V	110	1.75	-
5200MHz	Pass	PK	5.1488G	65.27	74.00	-8.73	7.15	3	V	110	1.75	-
5200MHz	Pass	PK	5.1924G	118.15	Inf	-Inf	7.24	3	V	110	1.75	-
5200MHz	Pass	AV	10.4G	51.57	54.00	-2.43	12.40	3	H	293	1.64	-
5200MHz	Pass	PK	10.4G	58.63	74.00	-15.37	12.40	3	H	293	1.64	-
5200MHz	Pass	AV	10.4G	51.95	54.00	-2.05	12.40	3	V	19	1.65	-
5200MHz	Pass	PK	10.4G	58.78	74.00	-15.22	12.40	3	V	19	1.65	-
5240MHz	Pass	AV	5.1128G	50.49	54.00	-3.51	7.07	3	H	187	1.35	-
5240MHz	Pass	AV	5.2346G	109.82	Inf	-Inf	7.34	3	H	187	1.35	-
5240MHz	Pass	AV	5.3858G	51.67	54.00	-2.33	7.67	3	H	187	1.35	-
5240MHz	Pass	PK	5.1482G	62.94	74.00	-11.06	7.15	3	H	187	1.35	-
5240MHz	Pass	PK	5.2346G	118.36	Inf	-Inf	7.34	3	H	187	1.35	-
5240MHz	Pass	PK	5.3558G	63.58	74.00	-10.42	7.60	3	H	187	1.35	-
5240MHz	Pass	AV	5.1284G	50.64	54.00	-3.36	7.10	3	V	110	1.88	-
5240MHz	Pass	AV	5.2322G	109.24	Inf	-Inf	7.33	3	V	110	1.88	-
5240MHz	Pass	AV	5.3648G	51.84	54.00	-2.16	7.62	3	V	110	1.88	-
5240MHz	Pass	PK	5.1236G	62.90	74.00	-11.10	7.09	3	V	110	1.88	-
5240MHz	Pass	PK	5.2322G	117.52	Inf	-Inf	7.33	3	V	110	1.88	-
5240MHz	Pass	PK	5.387G	63.91	74.00	-10.09	7.67	3	V	110	1.88	-
5240MHz	Pass	AV	10.48G	52.80	54.00	-1.20	12.40	3	H	288	1.61	-
5240MHz	Pass	PK	10.48G	58.65	74.00	-15.35	12.40	3	H	288	1.61	-
5240MHz	Pass	AV	10.48G	52.27	54.00	-1.73	12.40	3	V	20	1.65	-
5240MHz	Pass	PK	10.48G	58.84	74.00	-15.16	12.40	3	V	20	1.65	-
5745MHz	Pass	AV	5.738G	109.27	Inf	-Inf	3.53	3	H	214	1.81	-
5745MHz	Pass	AV	11.49G	50.16	54.00	-3.84	17.68	3	H	312	1.64	-
5745MHz	Pass	PK	5.647G	59.21	68.20	-8.99	3.35	3	H	214	1.81	-
5745MHz	Pass	PK	5.749G	118.59	Inf	-Inf	3.55	3	H	214	1.81	-
5745MHz	Pass	PK	5.93G	56.43	68.20	-11.77	3.89	3	H	214	1.81	-
5745MHz	Pass	PK	11.49G	59.35	74.00	-14.65	17.68	3	H	312	1.64	-
5745MHz	Pass	AV	5.749G	109.25	Inf	-Inf	3.55	3	V	285	2.18	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	AV	11.49G	48.02	54.00	-5.98	17.68	3	V	68	1.04	-
5745MHz	Pass	PK	5.633G	59.08	68.20	-9.12	3.33	3	V	285	2.18	-
5745MHz	Pass	PK	5.749G	119.78	Inf	-Inf	3.55	3	V	285	2.18	-
5745MHz	Pass	PK	5.931G	56.39	68.20	-11.81	3.89	3	V	285	2.18	-
5745MHz	Pass	PK	11.49G	58.34	74.00	-15.66	17.68	3	V	68	1.04	-
5785MHz	Pass	AV	5.787G	107.70	Inf	-Inf	3.62	3	H	214	1.90	-
5785MHz	Pass	PK	5.619G	59.33	68.20	-8.87	3.30	3	H	214	1.90	-
5785MHz	Pass	PK	5.787G	120.18	Inf	-Inf	3.62	3	H	214	1.90	-
5785MHz	Pass	PK	5.955G	56.59	68.20	-11.61	3.93	3	H	214	1.90	-
5785MHz	Pass	AV	5.781G	105.90	Inf	-Inf	3.61	3	V	341	1.74	-
5785MHz	Pass	PK	5.64G	58.05	68.20	-10.15	3.34	3	V	341	1.74	-
5785MHz	Pass	PK	5.782G	118.22	Inf	-Inf	3.61	3	V	341	1.74	-
5785MHz	Pass	PK	5.942G	56.01	68.20	-12.19	3.91	3	V	341	1.74	-
5785MHz	Pass	AV	11.57G	50.57	54.00	-3.43	17.62	3	H	311	1.71	-
5785MHz	Pass	PK	11.57G	59.45	74.00	-14.55	17.62	3	H	311	1.71	-
5785MHz	Pass	AV	11.57G	50.19	54.00	-3.81	17.62	3	V	34	2.99	-
5785MHz	Pass	PK	11.57G	59.12	74.00	-14.88	17.62	3	V	34	2.99	-
5825MHz	Pass	AV	5.826G	108.12	Inf	-Inf	3.70	3	H	213	2.05	-
5825MHz	Pass	PK	5.588G	59.63	68.20	-8.57	3.25	3	H	213	2.05	-
5825MHz	Pass	PK	5.827G	120.78	Inf	-Inf	3.70	3	H	213	2.05	-
5825MHz	Pass	PK	5.937G	57.21	68.20	-10.99	3.90	3	H	213	2.05	-
5825MHz	Pass	AV	5.821G	105.36	Inf	-Inf	3.69	3	V	343	1.79	-
5825MHz	Pass	PK	5.579G	59.20	68.20	-9.00	3.23	3	V	343	1.79	-
5825MHz	Pass	PK	5.821G	117.55	Inf	-Inf	3.69	3	V	343	1.79	-
5825MHz	Pass	PK	5.974G	56.23	68.20	-11.97	3.97	3	V	343	1.79	-
5825MHz	Pass	AV	11.65G	49.01	54.00	-4.99	17.57	3	H	150	1.61	-
5825MHz	Pass	PK	11.65G	63.65	74.00	-10.35	17.57	3	H	150	1.61	-
5825MHz	Pass	AV	11.65G	49.00	54.00	-5.00	17.57	3	V	25	3.26	-
5825MHz	Pass	PK	11.65G	58.73	74.00	-15.27	17.57	3	V	25	3.26	-
802.11ac VHT20_Nss1.(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	52.97	54.00	-1.03	7.15	3	H	176	1.25	-
5180MHz	Pass	AV	5.173G	105.15	Inf	-Inf	7.20	3	H	176	1.25	-
5180MHz	Pass	PK	5.1488G	67.38	74.00	-6.62	7.15	3	H	176	1.25	-
5180MHz	Pass	PK	5.1734G	114.27	Inf	-Inf	7.20	3	H	176	1.25	-
5180MHz	Pass	AV	5.149995G	53.31	54.00	-0.69	7.15	3	V	125	2.47	-
5180MHz	Pass	AV	5.1874G	107.14	Inf	-Inf	7.23	3	V	125	2.47	-
5180MHz	Pass	PK	5.1496G	66.57	74.00	-7.43	7.15	3	V	125	2.47	-
5180MHz	Pass	PK	5.185G	116.31	Inf	-Inf	7.23	3	V	125	2.47	-
5180MHz	Pass	AV	10.36G	53.49	54.00	-0.51	12.30	3	H	354	1.44	-
5180MHz	Pass	PK	10.36G	59.93	74.00	-14.07	12.30	3	H	354	1.44	-
5180MHz	Pass	AV	10.36G	53.55	54.00	-0.45	12.30	3	V	12	3.60	-
5180MHz	Pass	PK	10.36G	60.91	74.00	-13.09	12.30	3	V	12	3.60	-
5200MHz	Pass	AV	5.149995G	51.09	54.00	-2.91	7.15	3	H	176	1.39	-
5200MHz	Pass	AV	5.1928G	107.82	Inf	-Inf	7.24	3	H	176	1.39	-
5200MHz	Pass	PK	5.149995G	65.16	74.00	-8.84	7.15	3	H	176	1.39	-
5200MHz	Pass	PK	5.1932G	116.73	Inf	-Inf	7.25	3	H	176	1.39	-
5200MHz	Pass	AV	5.149995G	51.09	54.00	-2.91	7.15	3	V	140	1.59	-
5200MHz	Pass	AV	5.1928G	108.51	Inf	-Inf	7.24	3	V	140	1.59	-



RSE TX above 1GHz Result-Non-Beamforming NSS1

Appendix E.2

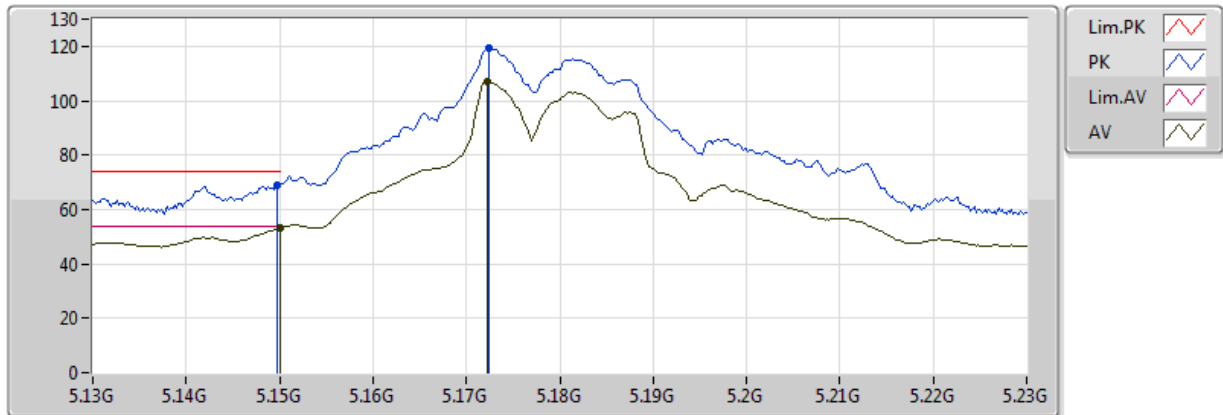
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5200MHz	Pass	PK	5.1492G	64.85	74.00	-9.15	7.15	3	V	140	1.59	-
5200MHz	Pass	PK	5.1932G	117.61	Inf	-Inf	7.25	3	V	140	1.59	-
5200MHz	Pass	AV	10.4G	53.21	54.00	-0.79	12.40	3	H	355	1.43	-
5200MHz	Pass	PK	10.4G	59.99	74.00	-14.01	12.40	3	H	355	1.43	-
5200MHz	Pass	AV	10.4G	53.08	54.00	-0.92	12.40	3	V	19	1.58	-
5200MHz	Pass	PK	10.4G	60.22	74.00	-13.78	12.40	3	V	19	1.58	-
5240MHz	Pass	AV	5.1362G	50.40	54.00	-3.60	7.12	3	H	292	1.47	-
5240MHz	Pass	AV	5.2472G	107.08	Inf	-Inf	7.36	3	H	292	1.47	-
5240MHz	Pass	AV	5.3846G	51.67	54.00	-2.33	7.67	3	H	292	1.47	-
5240MHz	Pass	PK	5.1404G	63.12	74.00	-10.88	7.13	3	H	292	1.47	-
5240MHz	Pass	PK	5.2448G	115.79	Inf	-Inf	7.36	3	H	292	1.47	-
5240MHz	Pass	PK	5.3774G	63.28	74.00	-10.72	7.65	3	H	292	1.47	-
5240MHz	Pass	AV	5.147G	50.46	54.00	-3.54	7.14	3	V	142	1.50	-
5240MHz	Pass	AV	5.2478G	108.53	Inf	-Inf	7.37	3	V	142	1.50	-
5240MHz	Pass	AV	5.3666G	51.86	54.00	-2.14	7.63	3	V	142	1.50	-
5240MHz	Pass	PK	5.1386G	62.57	74.00	-11.43	7.12	3	V	142	1.50	-
5240MHz	Pass	PK	5.2448G	117.00	Inf	-Inf	7.36	3	V	142	1.50	-
5240MHz	Pass	PK	5.375G	64.62	74.00	-9.38	7.64	3	V	142	1.50	-
5240MHz	Pass	AV	10.48G	53.39	54.00	-0.61	12.40	3	H	287	1.61	-
5240MHz	Pass	PK	10.48G	59.75	74.00	-14.25	12.40	3	H	287	1.61	-
5240MHz	Pass	AV	10.48G	53.19	54.00	-0.81	12.40	3	V	20	1.70	-
5240MHz	Pass	PK	10.48G	59.37	74.00	-14.63	12.40	3	V	20	1.70	-
5745MHz	Pass	AV	5.738G	109.27	Inf	-Inf	3.53	3	H	214	1.81	-
5745MHz	Pass	PK	5.647G	59.21	68.20	-8.99	3.35	3	H	214	1.81	-
5745MHz	Pass	PK	5.749G	118.59	Inf	-Inf	3.55	3	H	214	1.81	-
5745MHz	Pass	PK	5.93G	56.43	68.20	-11.77	3.89	3	H	214	1.81	-
5745MHz	Pass	AV	5.749G	109.25	Inf	-Inf	3.55	3	V	285	2.18	-
5745MHz	Pass	PK	5.633G	59.08	68.20	-9.12	3.33	3	V	285	2.18	-
5745MHz	Pass	PK	5.749G	119.78	Inf	-Inf	3.55	3	V	285	2.18	-
5745MHz	Pass	PK	5.931G	56.39	68.20	-11.81	3.89	3	V	285	2.18	-
5745MHz	Pass	AV	11.49G	50.51	54.00	-3.49	17.68	3	H	312	1.66	-
5745MHz	Pass	PK	11.49G	59.61	74.00	-14.39	17.68	3	H	312	1.66	-
5745MHz	Pass	AV	11.49G	50.09	54.00	-3.91	17.68	3	V	36	2.81	-
5745MHz	Pass	PK	11.49G	59.32	74.00	-14.68	17.68	3	V	36	2.81	-
5785MHz	Pass	AV	5.784G	108.87	Inf	-Inf	3.62	3	H	211	1.61	-
5785MHz	Pass	PK	5.63G	59.11	68.20	-9.09	3.32	3	H	211	1.61	-
5785MHz	Pass	PK	5.786G	117.92	Inf	-Inf	3.62	3	H	211	1.61	-
5785MHz	Pass	PK	5.953G	56.81	68.20	-11.39	3.93	3	H	211	1.61	-
5785MHz	Pass	AV	5.777G	108.71	Inf	-Inf	3.60	3	V	276	1.75	-
5785MHz	Pass	PK	5.629G	58.47	68.20	-9.73	3.32	3	V	276	1.75	-
5785MHz	Pass	PK	5.778G	118.24	Inf	-Inf	3.61	3	V	276	1.75	-
5785MHz	Pass	PK	5.935G	56.49	68.20	-11.71	3.90	3	V	276	1.75	-
5785MHz	Pass	AV	11.57G	50.78	54.00	-3.22	17.62	3	H	309	1.63	-
5785MHz	Pass	PK	11.57G	59.54	74.00	-14.46	17.62	3	H	309	1.63	-
5785MHz	Pass	AV	11.57G	50.53	54.00	-3.47	17.62	3	V	35	2.76	-
5785MHz	Pass	PK	11.57G	59.14	74.00	-14.86	17.62	3	V	35	2.76	-
5825MHz	Pass	AV	5.824G	109.14	Inf	-Inf	3.69	3	H	213	1.80	-
5825MHz	Pass	PK	5.59G	58.94	68.20	-9.26	3.25	3	H	213	1.80	-
5825MHz	Pass	PK	5.829G	118.35	Inf	-Inf	3.70	3	H	213	1.80	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.937G	56.74	68.20	-11.46	3.90	3	H	213	1.80	-
5825MHz	Pass	AV	5.817G	107.78	Inf	-Inf	3.68	3	V	276	1.68	-
5825MHz	Pass	PK	5.645G	57.92	68.20	-10.28	3.35	3	V	276	1.68	-
5825MHz	Pass	PK	5.83G	117.90	Inf	-Inf	3.70	3	V	276	1.68	-
5825MHz	Pass	PK	5.929G	57.48	68.20	-10.72	3.89	3	V	276	1.68	-
5825MHz	Pass	AV	11.65G	49.18	54.00	-4.82	17.57	3	H	311	1.70	-
5825MHz	Pass	PK	11.65G	58.86	74.00	-15.14	17.57	3	H	311	1.70	-
802.11ac VHT40_Nss1(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.1496G	53.44	54.00	-0.56	7.15	3	H	145	1.50	-
5190MHz	Pass	AV	5.1828G	100.15	Inf	-Inf	7.22	3	H	145	1.50	-
5190MHz	Pass	PK	5.1488G	66.81	74.00	-7.19	7.15	3	H	145	1.50	-
5190MHz	Pass	PK	5.1872G	109.06	Inf	-Inf	7.23	3	H	145	1.50	-
5190MHz	Pass	AV	5.149995G	52.73	54.00	-1.27	7.15	3	V	15	2.10	-
5190MHz	Pass	AV	5.1932G	100.41	Inf	-Inf	7.25	3	V	15	2.10	-
5190MHz	Pass	PK	5.1492G	65.15	74.00	-8.85	7.15	3	V	15	2.10	-
5190MHz	Pass	PK	5.2052G	109.81	Inf	-Inf	7.27	3	V	15	2.10	-
5190MHz	Pass	AV	10.38G	52.75	54.00	-1.25	12.35	3	H	355	1.49	-
5190MHz	Pass	PK	10.38G	58.92	74.00	-15.08	12.35	3	H	355	1.49	-
5190MHz	Pass	AV	10.38G	52.05	54.00	-1.95	12.35	3	V	19	1.67	-
5190MHz	Pass	PK	10.38G	58.77	74.00	-15.23	12.35	3	V	19	1.67	-
5230MHz	Pass	AV	5.1496G	52.47	54.00	-1.53	7.15	3	H	142	2.29	-
5230MHz	Pass	AV	5.2332G	106.51	Inf	-Inf	7.33	3	H	142	2.29	-
5230MHz	Pass	PK	5.149995G	66.11	74.00	-7.89	7.15	3	H	142	2.29	-
5230MHz	Pass	PK	5.2344G	115.71	Inf	-Inf	7.34	3	H	142	2.29	-
5230MHz	Pass	AV	5.149995G	52.73	54.00	-1.27	7.15	3	V	14	2.41	-
5230MHz	Pass	AV	5.2368G	107.38	Inf	-Inf	7.34	3	V	14	2.41	-
5230MHz	Pass	PK	5.1456G	64.39	74.00	-9.61	7.14	3	V	14	2.41	-
5230MHz	Pass	PK	5.2452G	116.39	Inf	-Inf	7.36	3	V	14	2.41	-
5230MHz	Pass	AV	10.46G	52.51	54.00	-1.49	12.55	3	H	356	1.40	-
5230MHz	Pass	PK	10.46G	59.12	74.00	-14.88	12.55	3	H	356	1.40	-
5230MHz	Pass	AV	10.46G	52.85	54.00	-1.15	12.55	3	V	20	1.63	-
5230MHz	Pass	PK	10.46G	59.13	74.00	-14.87	12.55	3	V	20	1.63	-
5755MHz	Pass	AV	5.747G	106.62	Inf	-Inf	3.54	3	H	215	1.93	-
5755MHz	Pass	PK	5.644G	61.94	68.20	-6.26	3.35	3	H	215	1.93	-
5755MHz	Pass	PK	5.747G	116.55	Inf	-Inf	3.54	3	H	215	1.93	-
5755MHz	Pass	PK	5.964G	56.71	68.20	-11.49	3.95	3	H	215	1.93	-
5755MHz	Pass	AV	5.749G	106.26	Inf	-Inf	3.55	3	V	280	2.24	-
5755MHz	Pass	PK	5.647G	61.80	68.20	-6.40	3.35	3	V	280	2.24	-
5755MHz	Pass	PK	5.752G	117.00	Inf	-Inf	3.55	3	V	280	2.24	-
5755MHz	Pass	PK	5.932G	56.85	68.20	-11.35	3.89	3	V	280	2.24	-
5755MHz	Pass	AV	11.51G	50.67	54.00	-3.33	17.66	3	H	312	1.72	-
5755MHz	Pass	PK	11.51G	59.30	74.00	-14.70	17.66	3	H	312	1.72	-
5755MHz	Pass	AV	11.51G	50.76	54.00	-3.24	17.66	3	V	37	2.73	-
5755MHz	Pass	PK	11.51G	59.05	74.00	-14.95	17.66	3	V	37	2.73	-
5795MHz	Pass	AV	5.793G	106.85	Inf	-Inf	3.64	3	H	218	1.84	-
5795MHz	Pass	PK	5.633G	59.46	68.20	-8.74	3.33	3	H	218	1.84	-
5795MHz	Pass	PK	5.799G	117.06	Inf	-Inf	3.65	3	H	218	1.84	-
5795MHz	Pass	PK	5.942G	57.07	68.20	-11.13	3.91	3	H	218	1.84	-
5795MHz	Pass	AV	5.779G	105.88	Inf	-Inf	3.61	3	V	276	2.16	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	PK	5.628G	59.10	68.20	-9.10	3.32	3	V	276	2.16	-
5795MHz	Pass	PK	5.792G	116.65	Inf	-Inf	3.63	3	V	276	2.16	-
5795MHz	Pass	PK	5.933G	56.76	68.20	-11.44	3.89	3	V	276	2.16	-
5795MHz	Pass	AV	11.59G	50.12	54.00	-3.88	17.61	3	H	311	1.69	-
5795MHz	Pass	PK	11.59G	58.53	74.00	-15.47	17.61	3	H	311	1.69	-
5795MHz	Pass	AV	11.59G	50.43	54.00	-3.57	17.61	3	V	36	2.82	-
5795MHz	Pass	PK	11.59G	58.76	74.00	-15.24	17.61	3	V	36	2.82	-
802.11ac VHT80_Nss1(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149995G	53.16	54.00	-0.84	7.15	3	H	144	1.39	-
5210MHz	Pass	AV	5.213G	95.49	Inf	-Inf	7.29	3	H	144	1.39	-
5210MHz	Pass	AV	5.37G	48.03	54.00	-5.97	7.63	3	H	144	1.39	-
5210MHz	Pass	PK	5.147G	72.20	74.00	-1.80	7.14	3	H	144	1.39	-
5210MHz	Pass	PK	5.209G	107.28	Inf	-Inf	7.28	3	H	144	1.39	-
5210MHz	Pass	PK	5.381G	63.93	74.00	-10.07	7.66	3	H	144	1.39	-
5210MHz	Pass	AV	5.149995G	51.58	54.00	-2.42	7.15	3	V	146	1.50	-
5210MHz	Pass	AV	5.213G	96.24	Inf	-Inf	7.29	3	V	146	1.50	-
5210MHz	Pass	AV	5.446G	48.31	54.00	-5.69	7.80	3	V	146	1.50	-
5210MHz	Pass	PK	5.146G	72.61	74.00	-1.39	7.14	3	V	146	1.50	-
5210MHz	Pass	PK	5.206G	106.13	Inf	-Inf	7.27	3	V	146	1.50	-
5210MHz	Pass	PK	5.37G	63.81	74.00	-10.19	7.63	3	V	146	1.50	-
5210MHz	Pass	AV	10.42G	53.45	54.00	-0.55	17.11	3	H	286	1.65	-
5210MHz	Pass	PK	10.42G	60.85	74.00	-13.15	17.11	3	H	286	1.65	-
5210MHz	Pass	AV	10.42G	52.35	54.00	-1.65	17.11	3	V	13	1.61	-
5210MHz	Pass	PK	10.42G	60.55	74.00	-13.45	17.11	3	V	13	1.61	-
5775MHz	Pass	AV	5.773G	101.08	Inf	-Inf	3.60	3	H	210	1.64	-
5775MHz	Pass	PK	5.639G	67.52	68.20	-0.68	3.34	3	H	210	1.64	-
5775MHz	Pass	PK	5.774G	111.58	Inf	-Inf	3.60	3	H	210	1.64	-
5775MHz	Pass	PK	5.925G	59.95	68.20	-8.25	3.88	3	H	210	1.64	-
5775MHz	Pass	AV	5.773G	101.08	Inf	-Inf	3.60	3	V	281	2.16	-
5775MHz	Pass	PK	5.634G	67.57	68.20	-0.63	3.33	3	V	281	2.16	-
5775MHz	Pass	PK	5.763G	112.36	Inf	-Inf	3.58	3	V	281	2.16	-
5775MHz	Pass	PK	5.928G	59.47	68.20	-8.73	3.88	3	V	281	2.16	-
5775MHz	Pass	AV	11.55G	50.32	54.00	-3.68	17.64	3	H	312	1.73	-
5775MHz	Pass	PK	11.55G	59.14	74.00	-14.86	17.64	3	H	312	1.73	-
5775MHz	Pass	AV	11.55G	50.13	54.00	-3.87	17.64	3	V	38	2.74	-
5775MHz	Pass	PK	11.55G	58.40	74.00	-15.60	17.64	3	V	38	2.74	-

802.11a_(6Mbps)_8TX

5180MHz_TX

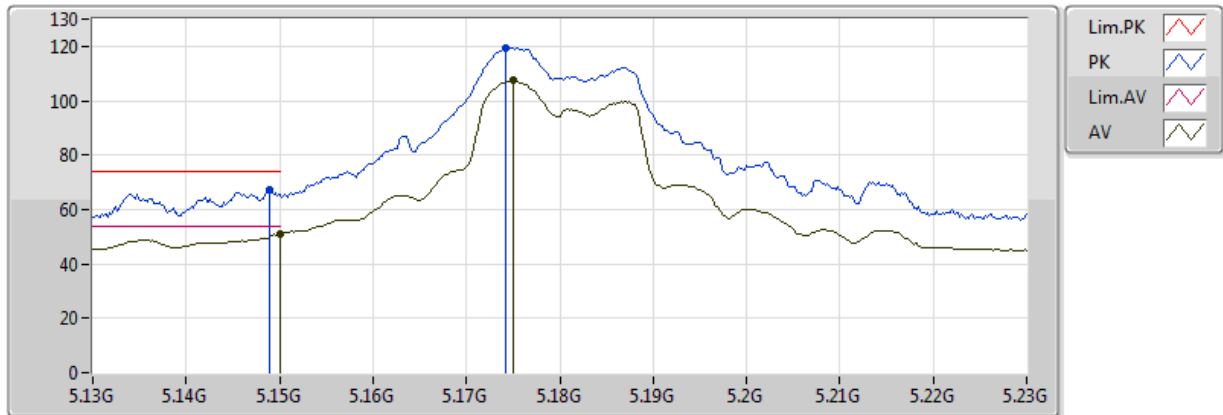


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.31	54.00	-0.69	2.69	3	V	115	1.84	-
AV	5.1722G	107.05	Inf	-Inf	2.72	3	V	115	1.84	-
PK	5.1498G	68.94	74.00	-5.06	2.69	3	V	115	1.84	-
PK	5.1724G	119.27	Inf	-Inf	2.72	3	V	115	1.84	-

802.11a_(6Mbps)_8TX

5180MHz_TX

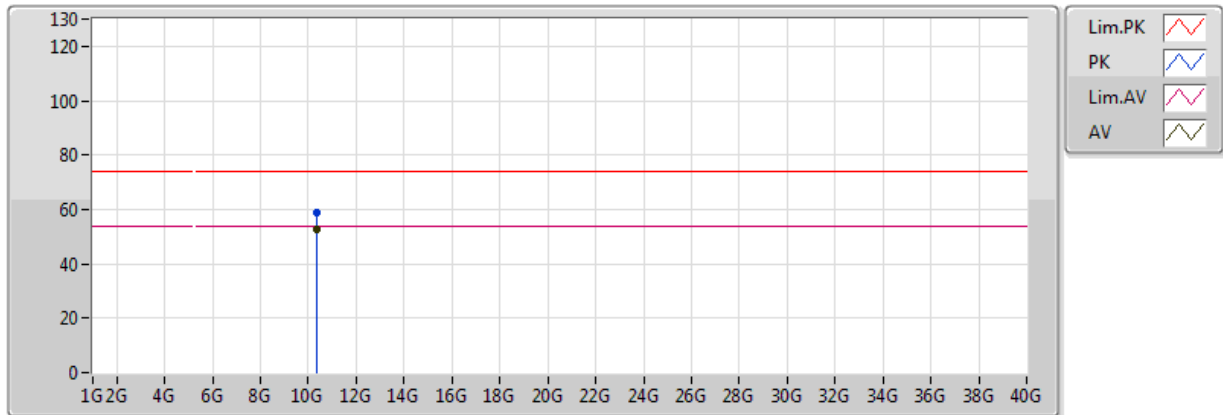


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	50.99	54.00	-3.01	2.69	3	H	193	1.34	-
AV	5.175G	107.31	Inf	-Inf	2.72	3	H	193	1.34	-
PK	5.149G	67.32	74.00	-6.68	2.69	3	H	193	1.34	-
PK	5.1742G	119.60	Inf	-Inf	2.72	3	H	193	1.34	-

802.11a_(6Mbps)_8TX

5180MHz_TX

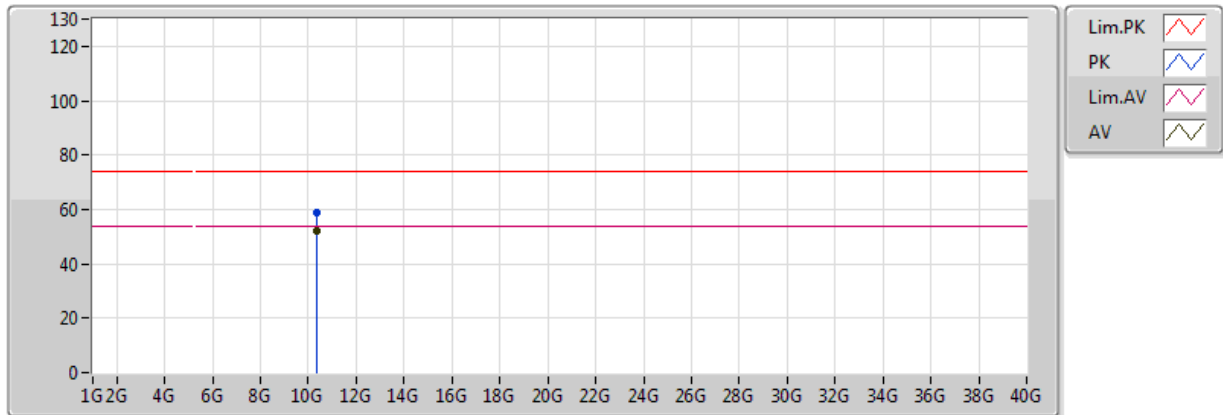


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.36G	52.50	54.00	-1.50	12.30	3	V	8	3.59	-
PK	10.36G	58.89	74.00	-15.11	12.30	3	V	8	3.59	-

802.11a_(6Mbps)_8TX

5180MHz_TX

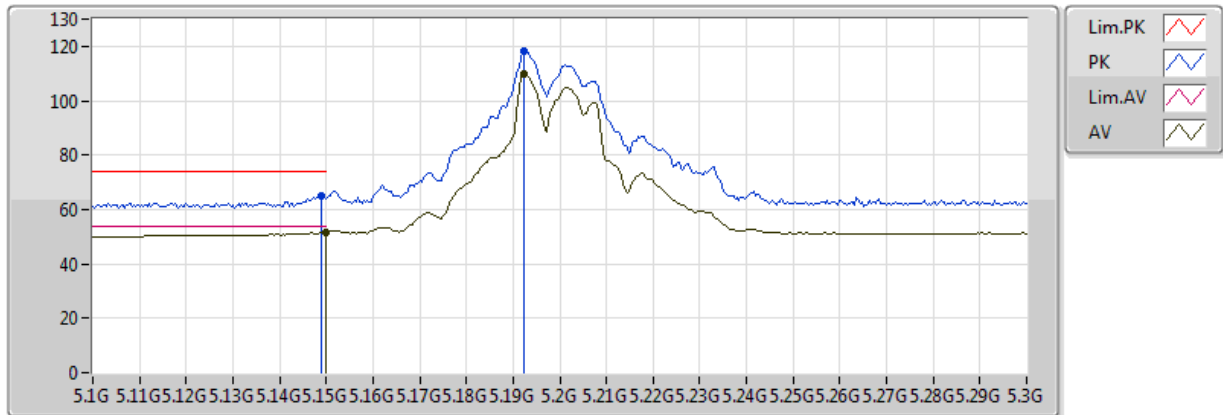


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.36G	52.33	54.00	-1.67	12.30	3	H	14	1.47	-
PK	10.36G	59.07	74.00	-14.93	12.30	3	H	14	1.47	-

802.11a_(6Mbps)_8TX

5200MHz_TX

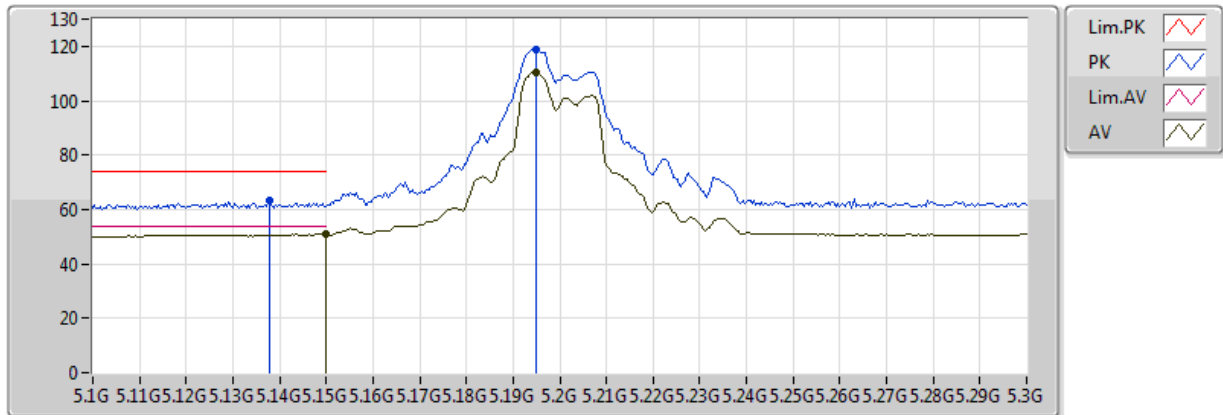


cut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1924G	109.87	Inf	-Inf	7.24	3	V	110	1.75	-
AV	5.149995G	51.67	54.00	-2.33	7.15	3	V	110	1.75	-
PK	5.1924G	118.15	Inf	-Inf	7.24	3	V	110	1.75	-
PK	5.1488G	65.27	74.00	-8.73	7.15	3	V	110	1.75	-

802.11a_(6Mbps)_8TX

5200MHz_TX

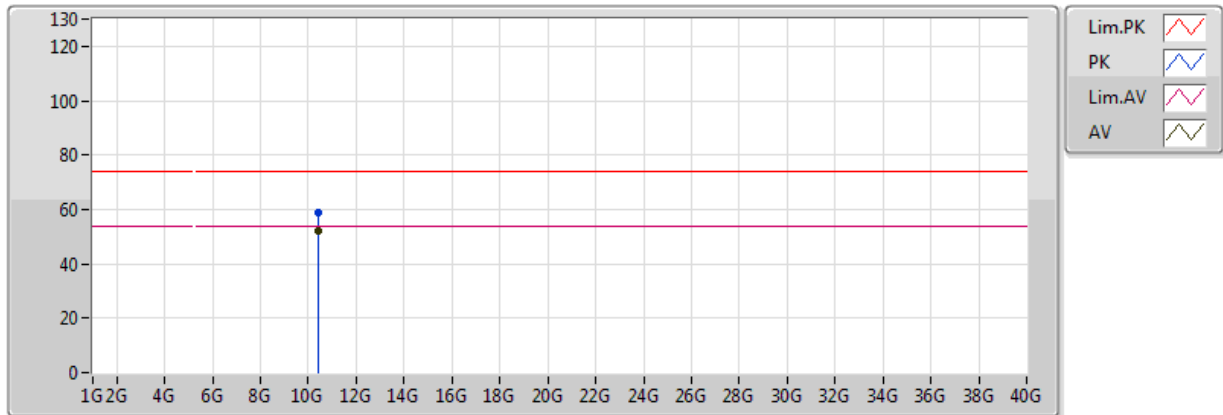


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1948G	110.39	Inf	-Inf	7.25	3	H	187	1.38	-
AV	5.149995G	50.79	54.00	-3.21	7.15	3	H	187	1.38	-
PK	5.1948G	118.88	Inf	-Inf	7.25	3	H	187	1.38	-
PK	5.138G	63.18	74.00	-10.82	7.12	3	H	187	1.38	-

802.11a_(6Mbps)_8TX

5200MHz_TX

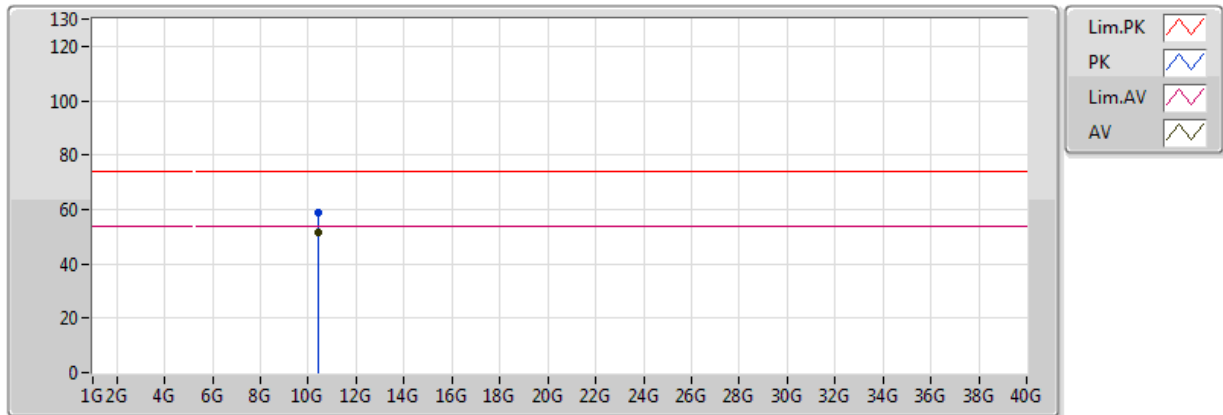


cut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	51.95	54.00	-2.05	12.40	3	V	19	1.65	-
PK	10.4G	58.78	74.00	-15.22	12.40	3	V	19	1.65	-

802.11a_(6Mbps)_8TX

5200MHz_TX

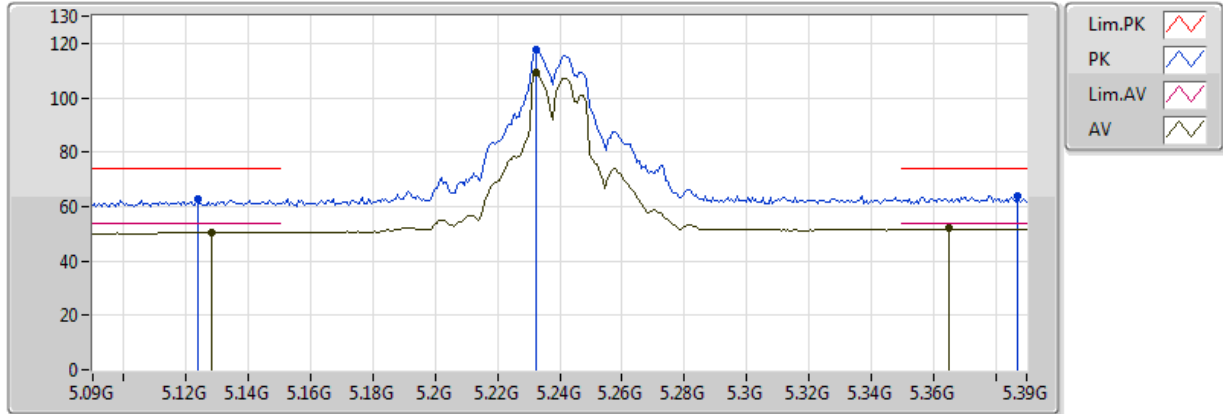


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	51.57	54.00	-2.43	12.40	3	H	293	1.64	-
PK	10.4G	58.63	74.00	-15.37	12.40	3	H	293	1.64	-

802.11a_(6Mbps)_8TX

5240MHz_TX

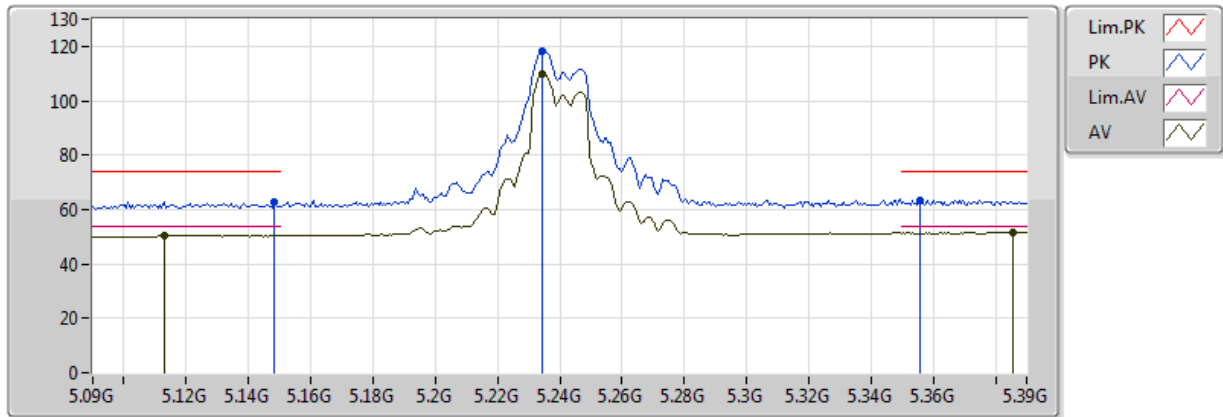


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.2322G	109.24	Inf	-Inf	7.33	3	V	110	1.88	-
AV	5.1284G	50.64	54.00	-3.36	7.10	3	V	110	1.88	-
AV	5.3648G	51.84	54.00	-2.16	7.62	3	V	110	1.88	-
PK	5.2322G	117.52	Inf	-Inf	7.33	3	V	110	1.88	-
PK	5.1236G	62.90	74.00	-11.10	7.09	3	V	110	1.88	-
PK	5.387G	63.91	74.00	-10.09	7.67	3	V	110	1.88	-

802.11a_(6Mbps)_8TX

5240MHz_TX

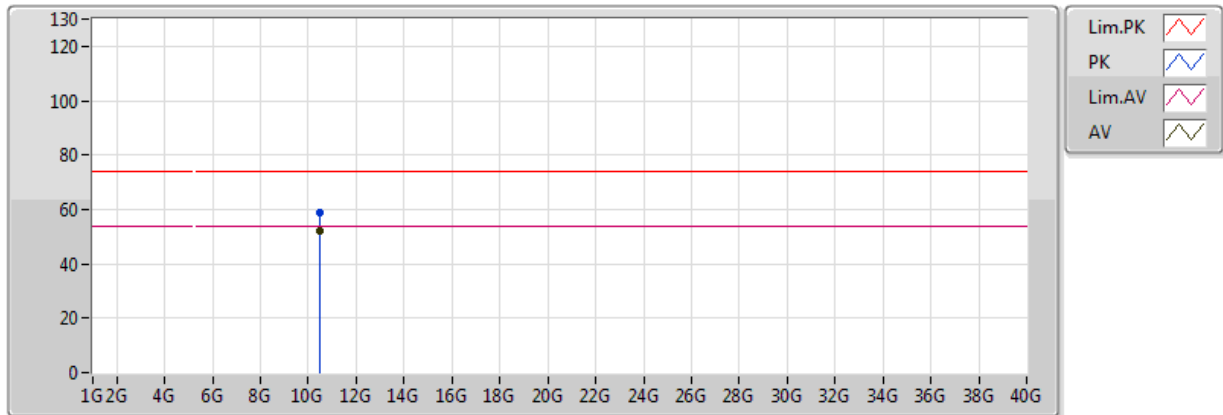


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.2346G	109.82	Inf	-Inf	7.34	3	H	187	1.35	-
AV	5.1128G	50.49	54.00	-3.51	7.07	3	H	187	1.35	-
AV	5.3858G	51.67	54.00	-2.33	7.67	3	H	187	1.35	-
PK	5.2346G	118.36	Inf	-Inf	7.34	3	H	187	1.35	-
PK	5.1482G	62.94	74.00	-11.06	7.15	3	H	187	1.35	-
PK	5.3558G	63.58	74.00	-10.42	7.60	3	H	187	1.35	-

802.11a_(6Mbps)_8TX

5240MHz_TX

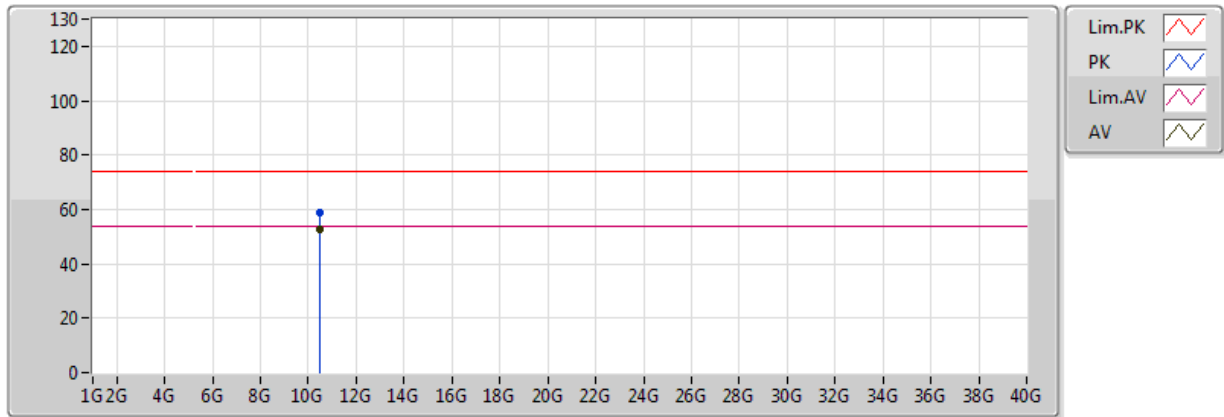


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.48G	52.27	54.00	-1.73	12.40	3	V	20	1.65	-
PK	10.48G	58.84	74.00	-15.16	12.40	3	V	20	1.65	-

802.11a_(6Mbps)_8TX

5240MHz_TX

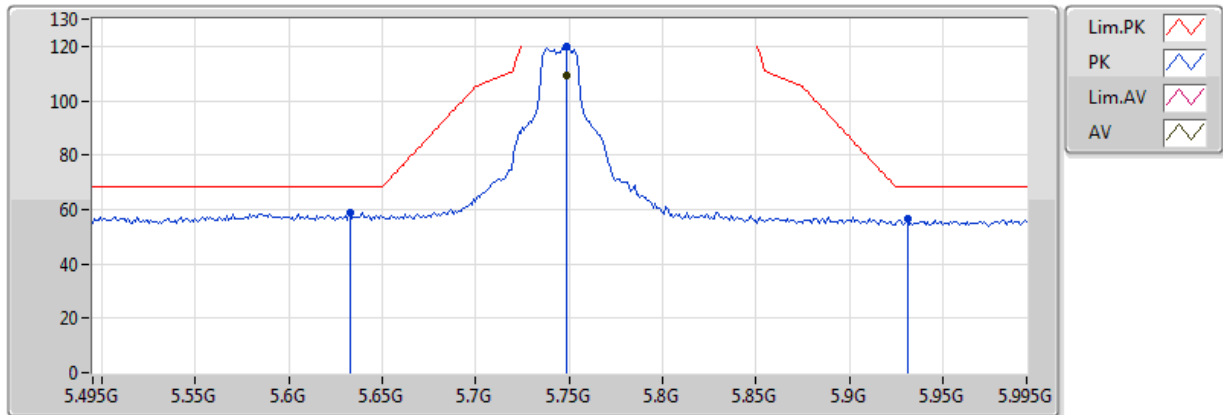


eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.48G	52.80	54.00	-1.20	12.40	3	H	288	1.61	-
PK	10.48G	58.65	74.00	-15.35	12.40	3	H	288	1.61	-

802.11a_(6Mbps)_8TX

5745MHz_TX



eut : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.749G	109.25	Inf	-Inf	3.55	3	V	285	2.18	-
PK	5.633G	59.08	68.20	-9.12	3.33	3	V	285	2.18	-
PK	5.749G	119.78	Inf	-Inf	3.55	3	V	285	2.18	-
PK	5.931G	56.39	68.20	-11.81	3.89	3	V	285	2.18	-