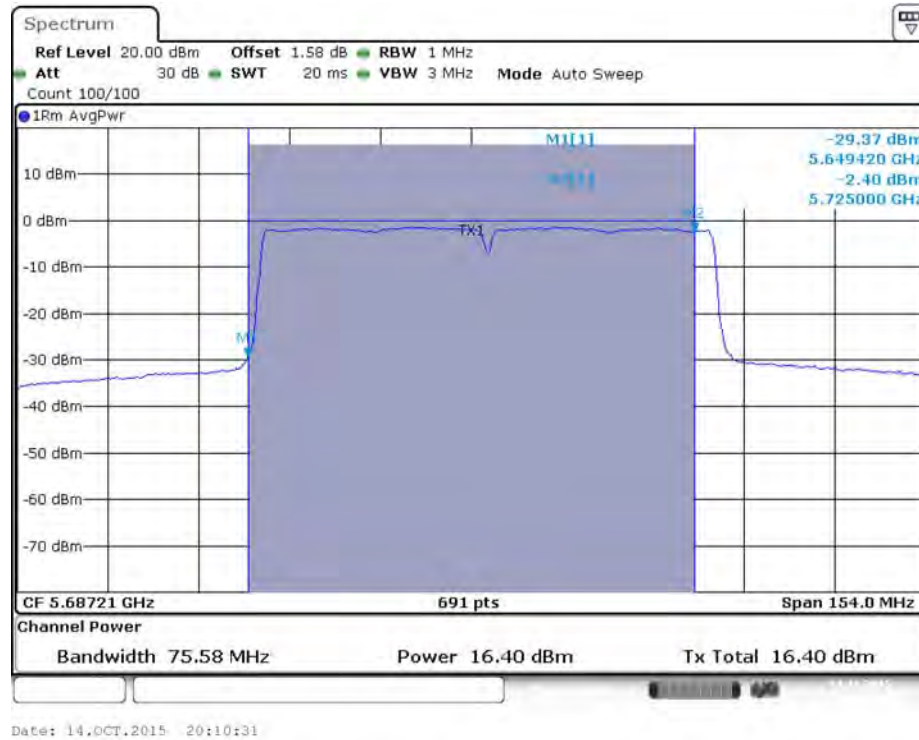
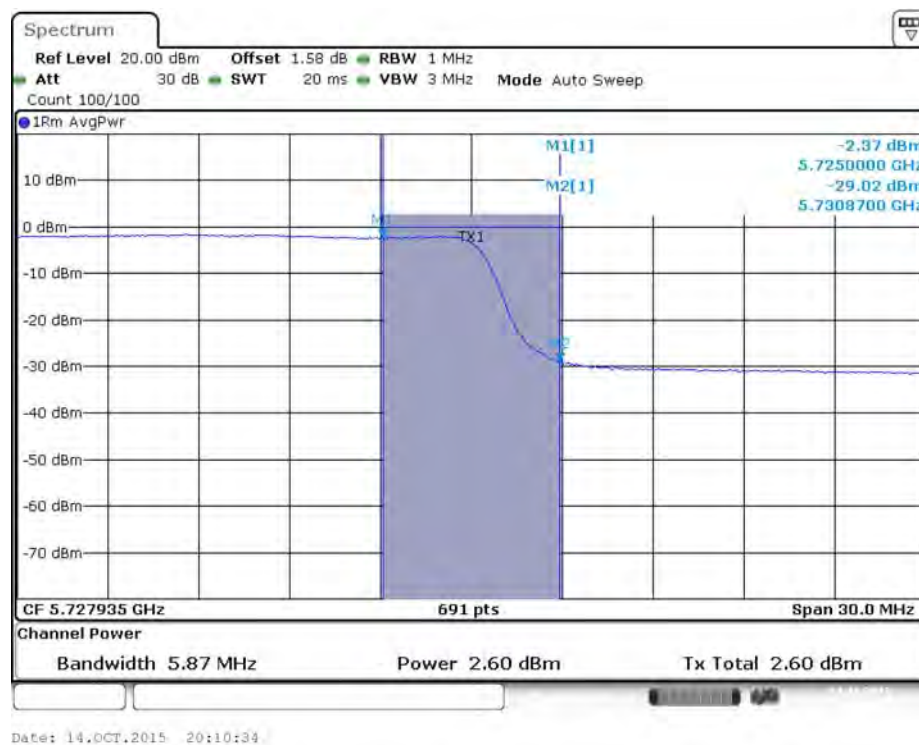


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)

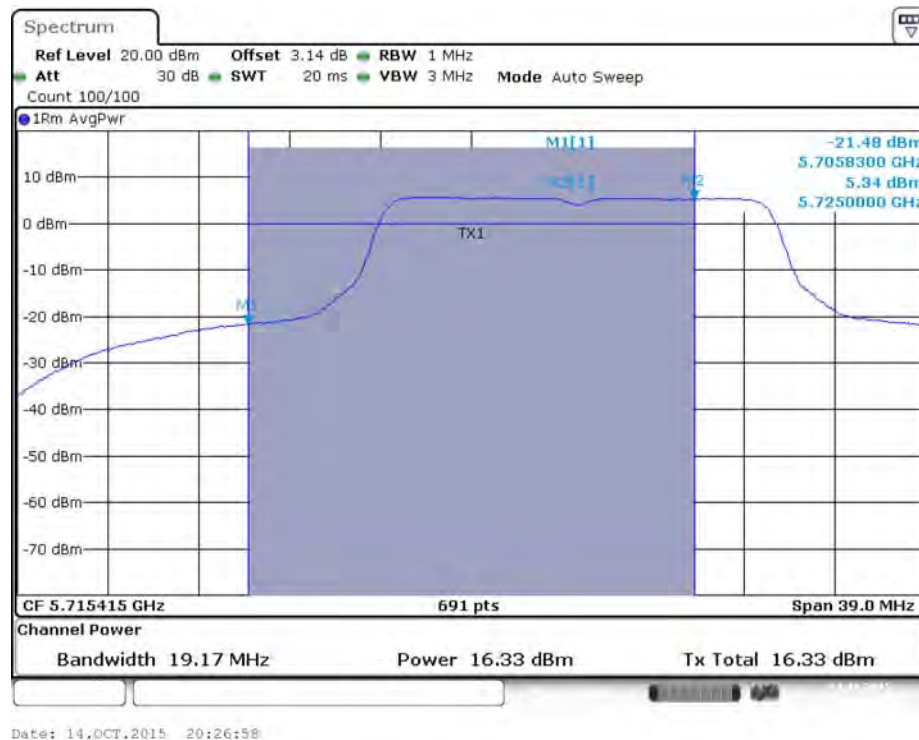


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)

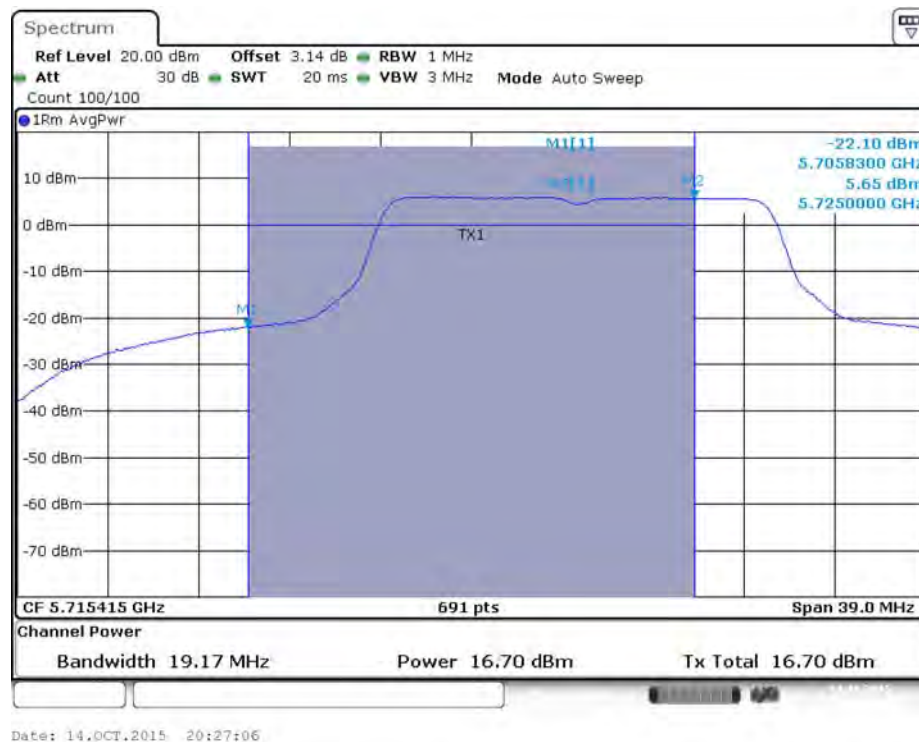


Chain 1: 5.9dBi, Chain 2: 5.4dBi / 2TX

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 2C)



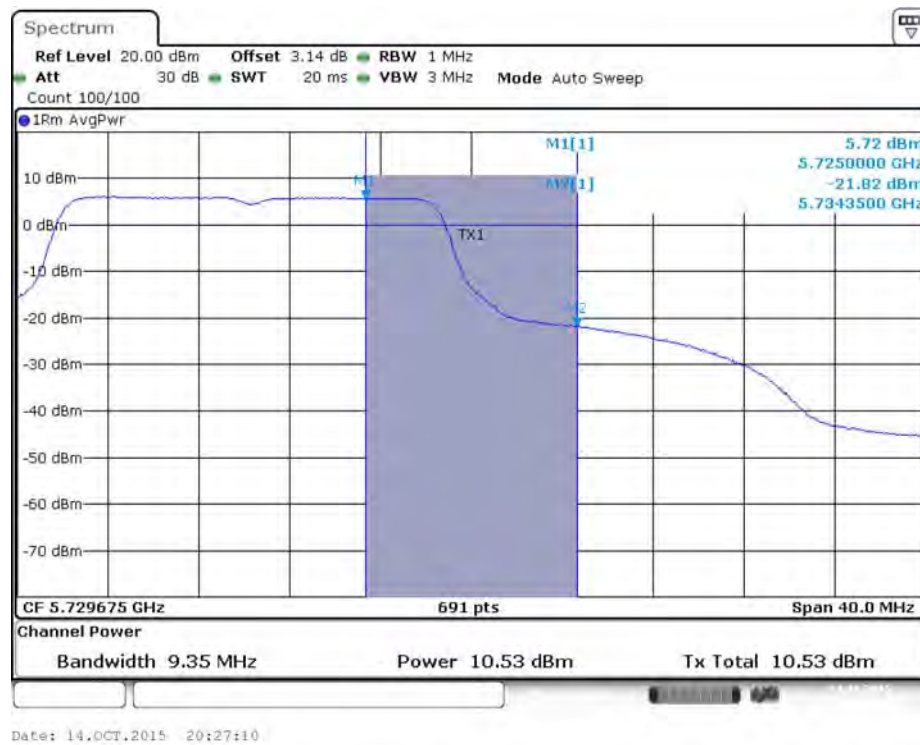
Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 2C)



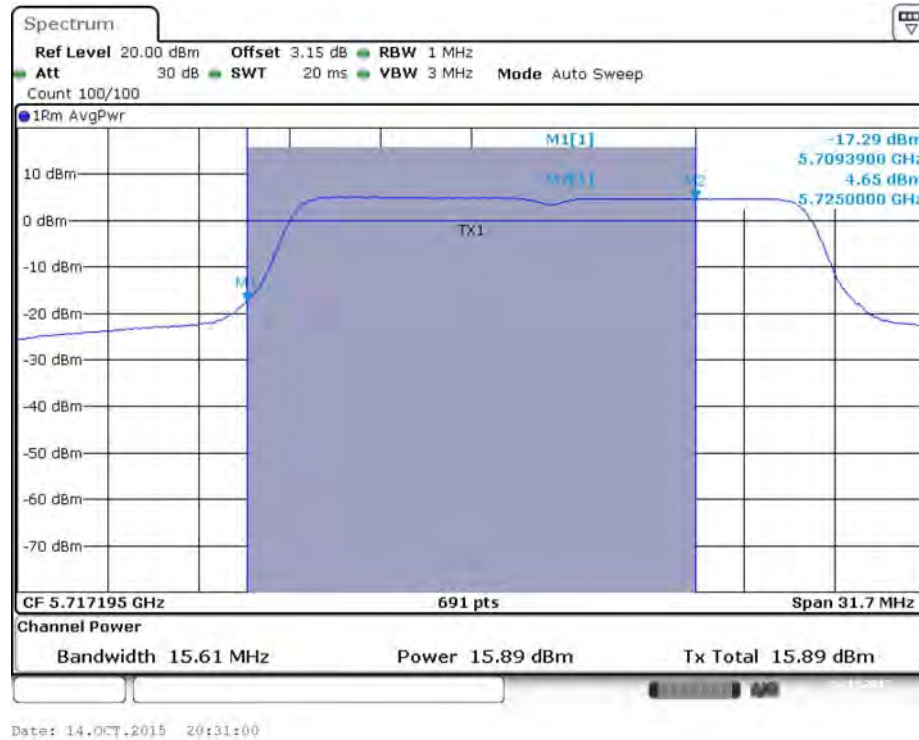
Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 3)



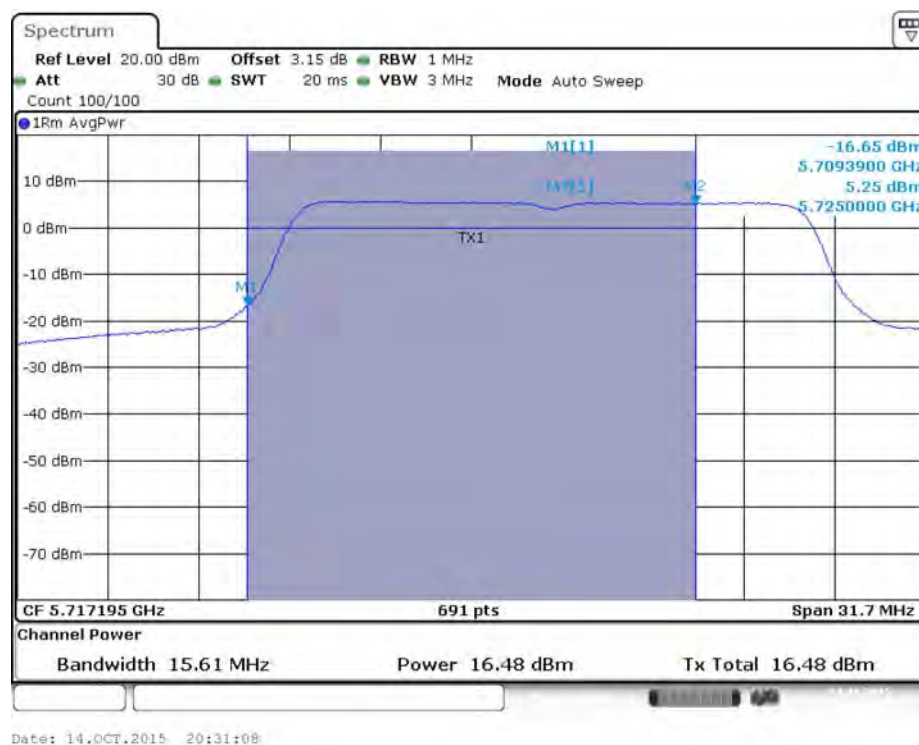
Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



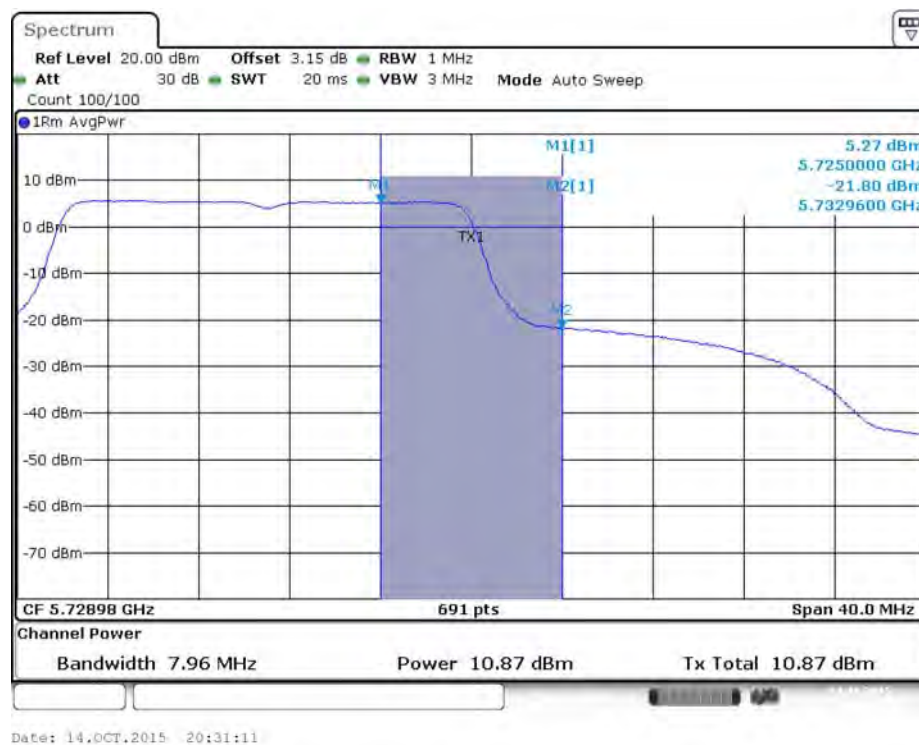
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



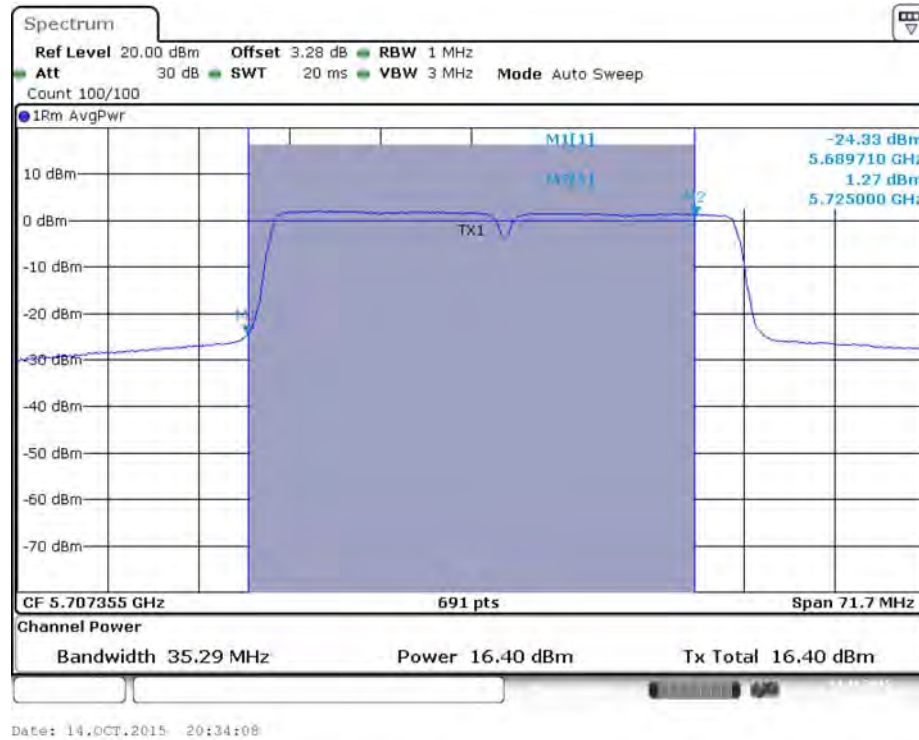
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



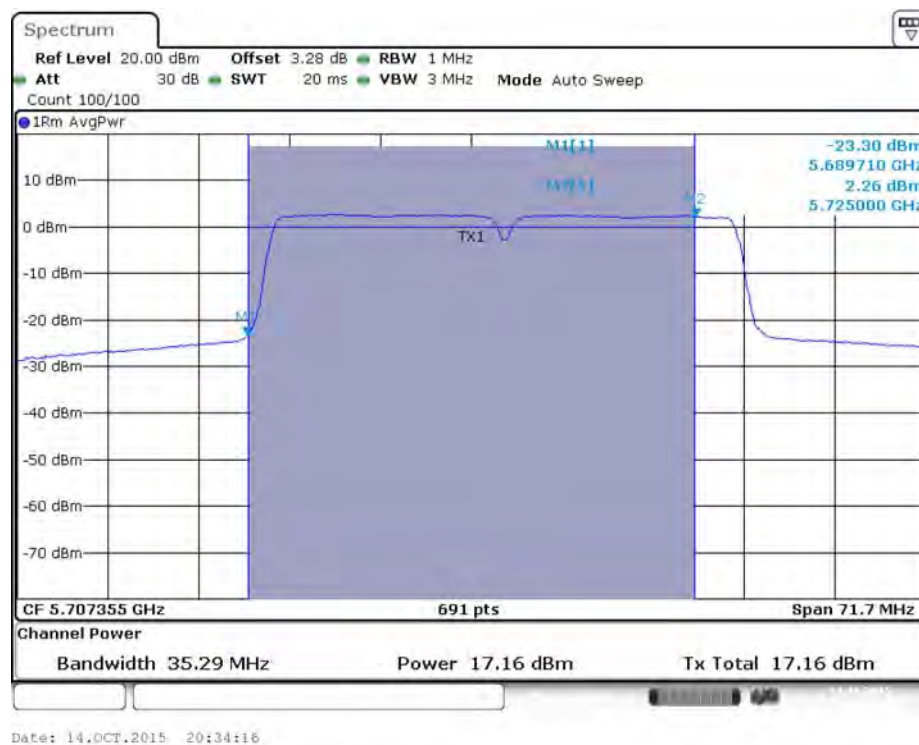
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



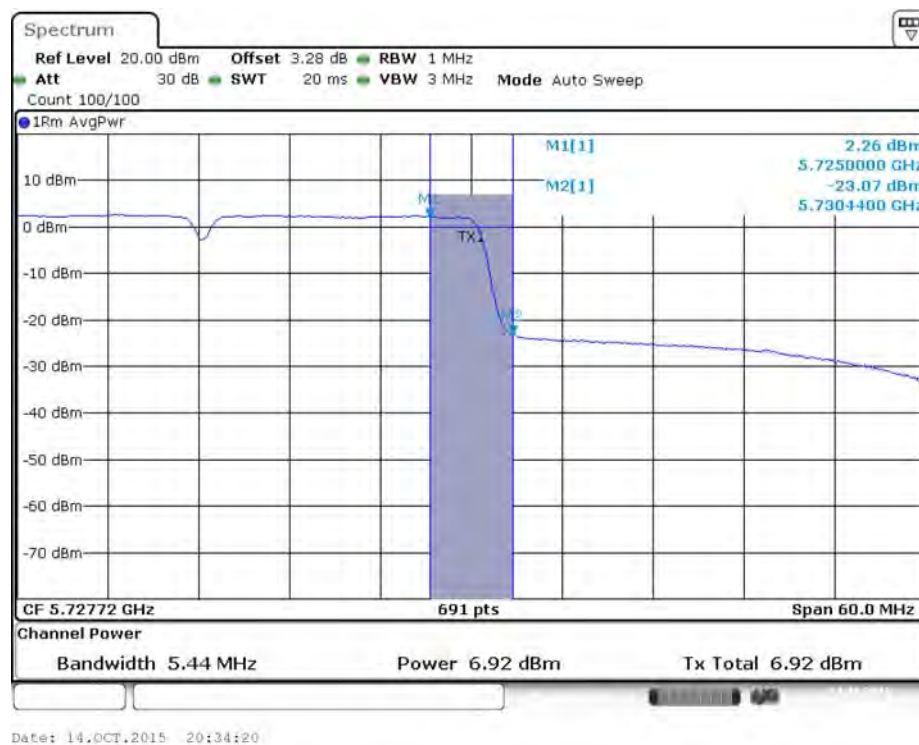
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



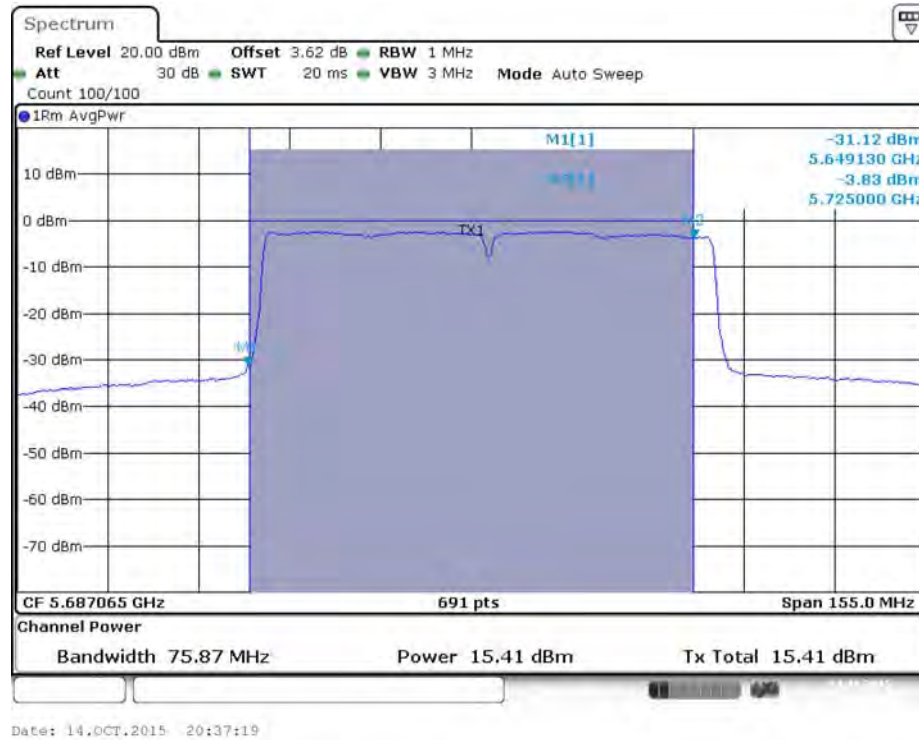
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



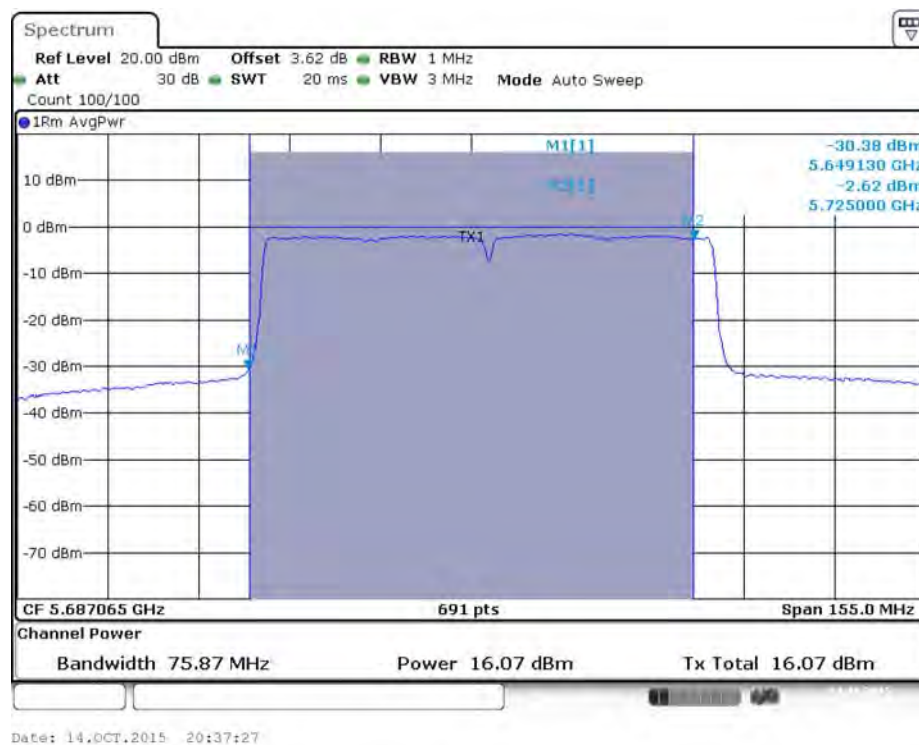
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



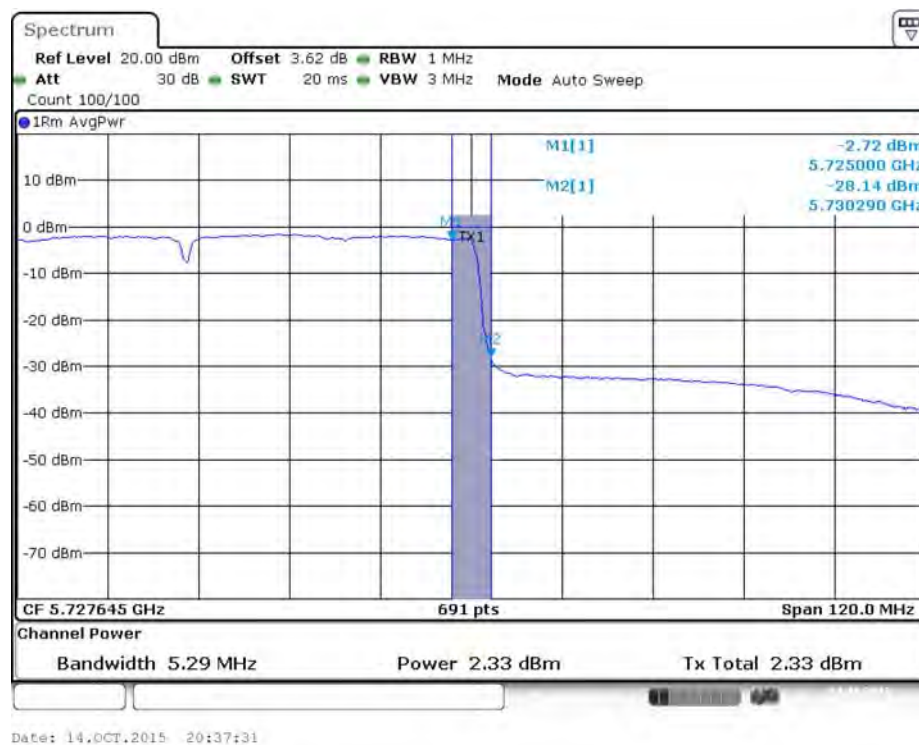
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)

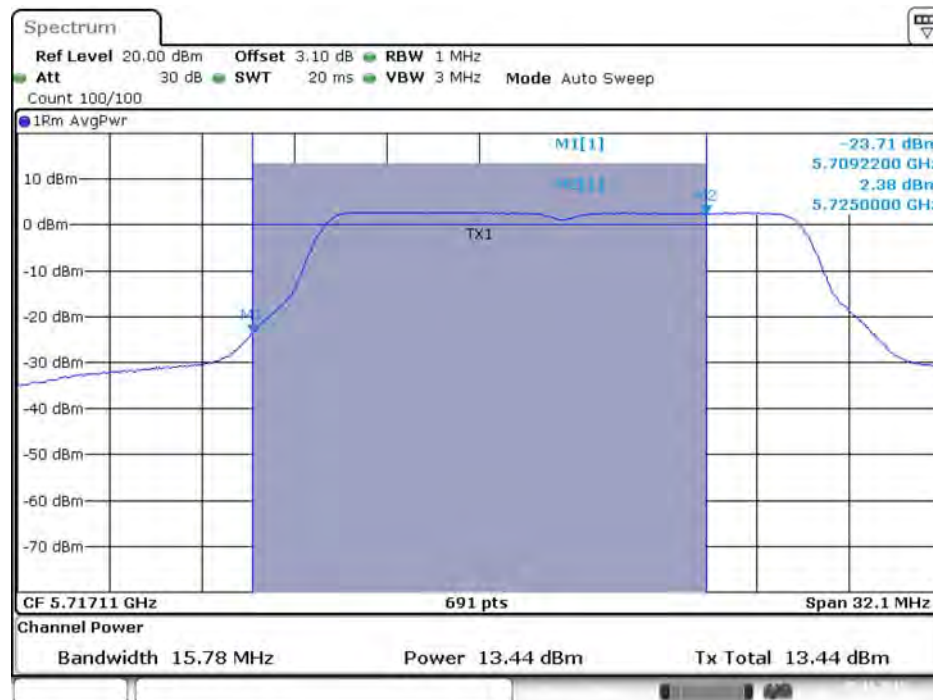


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 2C)



Date: 5.NOV.2015 20:51:48

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 2C)



Date: 5.NOV.2015 20:51:55

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 3 / 5720 MHz (UNII 2C)



Date: 5 NOV 2015 20:52:02

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 3)



Date: 5 NOV 2015 20:51:51

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5720 MHz (UNII 3)



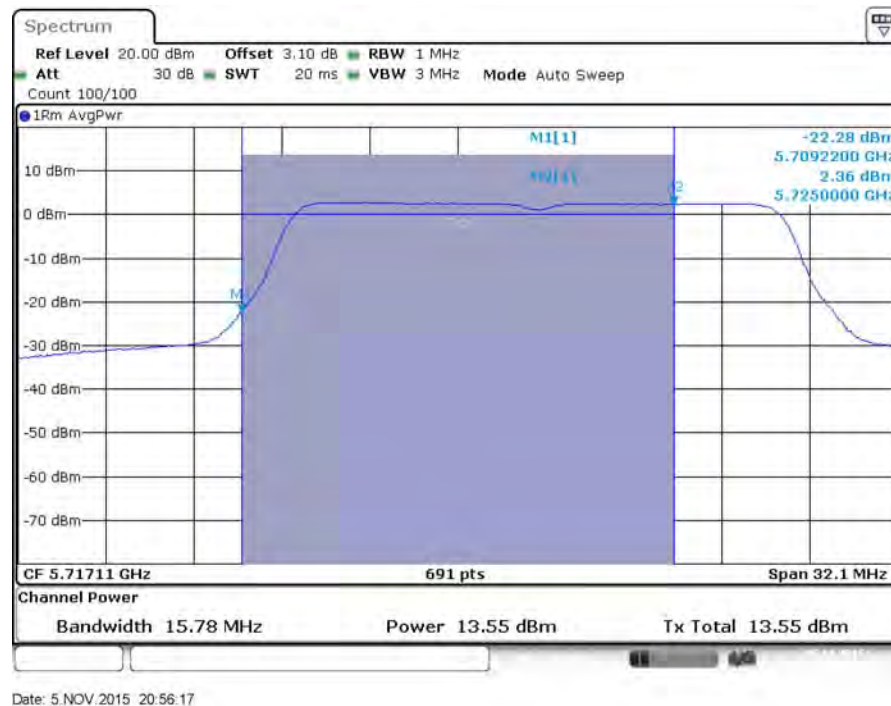
Date: 5 NOV 2015 20:51:58

Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 3 / 5720 MHz (UNII 3)

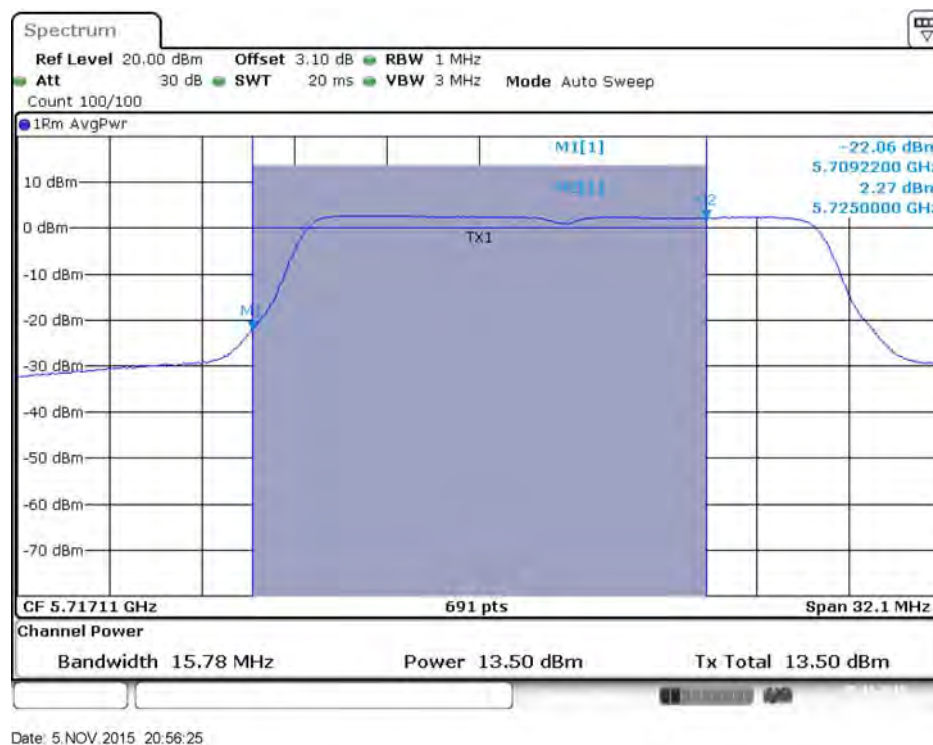


Date: 5 NOV 2015 20:52:05

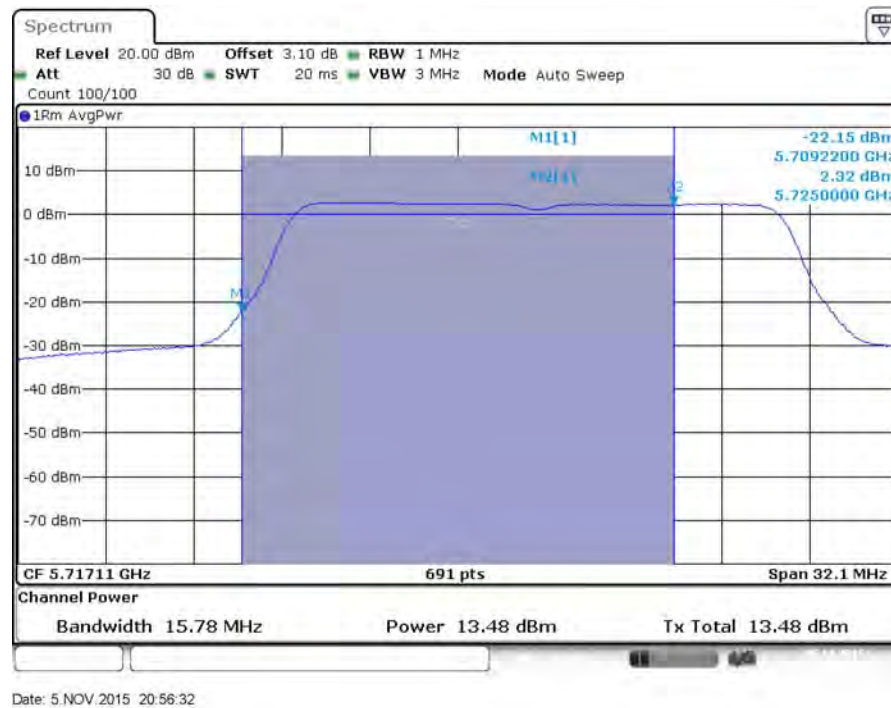
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



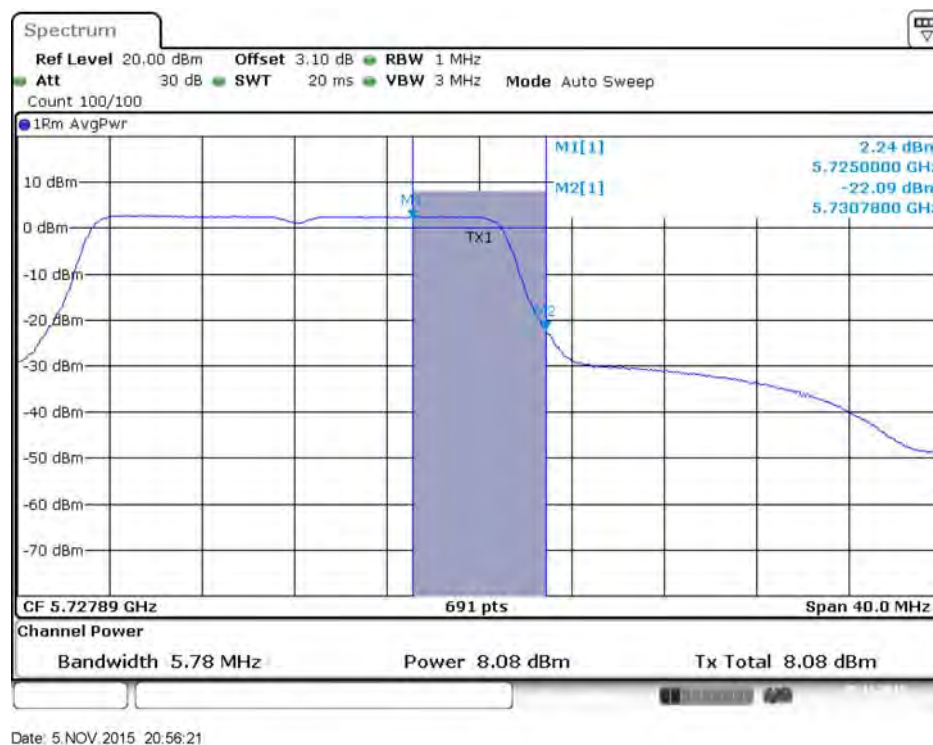
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



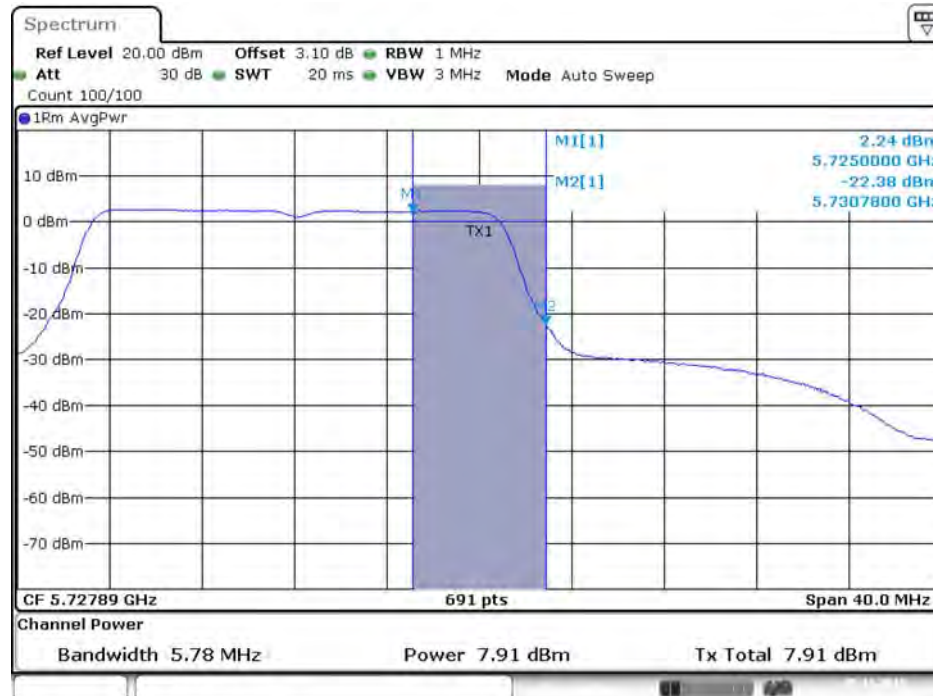
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



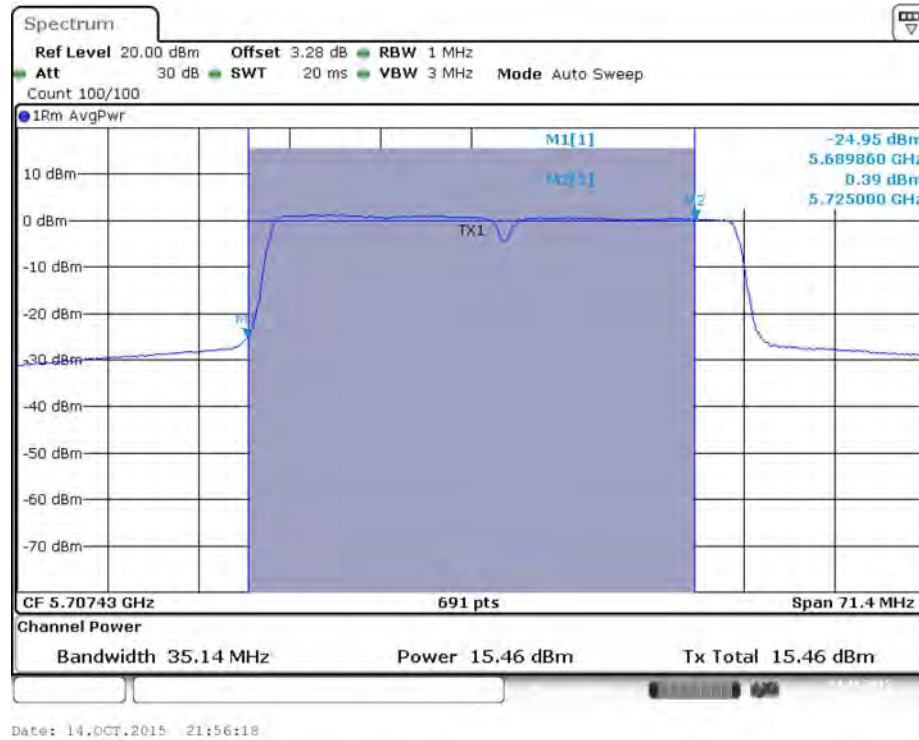
Date: 5 NOV. 2015 20:56:28

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)

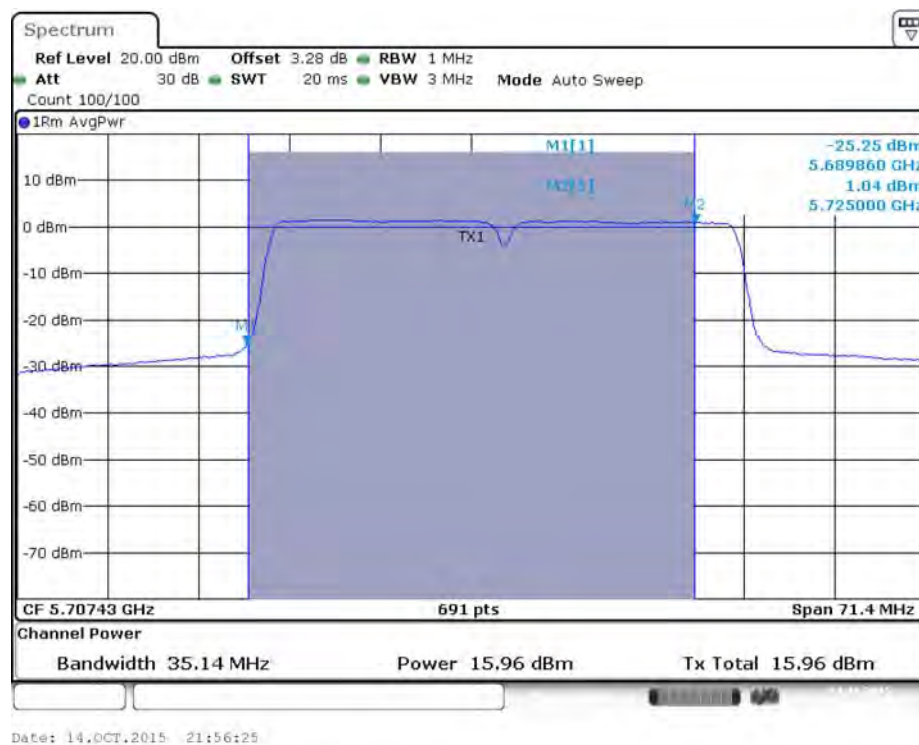


Date: 5 NOV. 2015 20:56:35

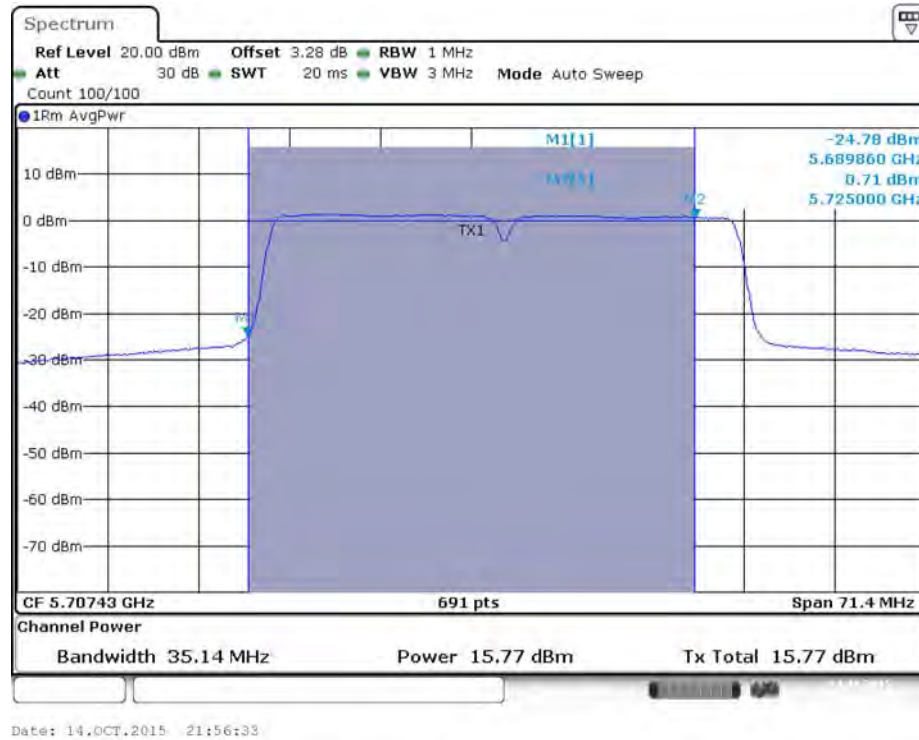
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)





Spectrum

Ref Level 20.00 dBm Offset 3.28 dB RBW 1 MHz
Att 30 dB SWT 20 ms VBW 3 MHz Mode Auto Sweep
Count 100/100

1Rm AvgPwr

0 dBm
10 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

M1[1] 0.98 dBm
M2[1] 5.7250000 GHz
TX1 -25.01 dBm
5.7302900 GHz

CF 5.727645 GHz 691 pts Span 60.0 MHz

Channel Power

Bandwidth 5.29 MHz Power 5.75 dBm Tx Total 5.75 dBm

Date: 14.OCT.2015 21:56:29

Spectrum

Ref Level 20.00 dBm Offset 3.28 dB RBW 1 MHz
Att 30 dB SWT 20 ms VBW 3 MHz Mode Auto Sweep

Count 100/100

● IRm AvgPwr

M1[1] 0.68 dBm
M2[1] 5.7250000 GHz
TX1 -25.20 dBm
M2 5.7302900 GHz

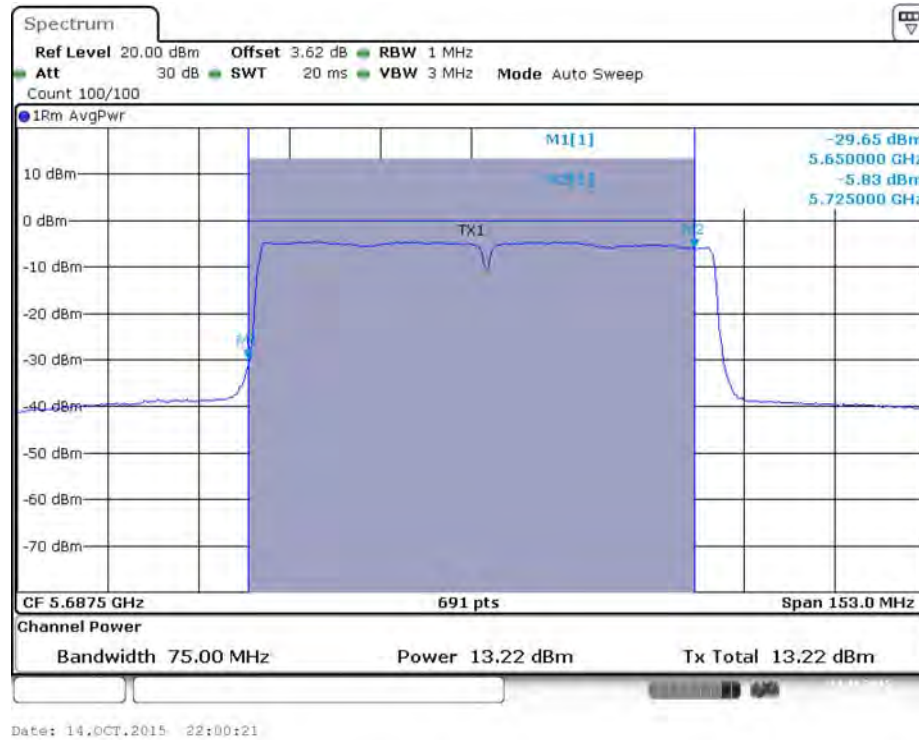
CF 5.727645 GHz 691 pts Span 60.0 MHz

Channel Power

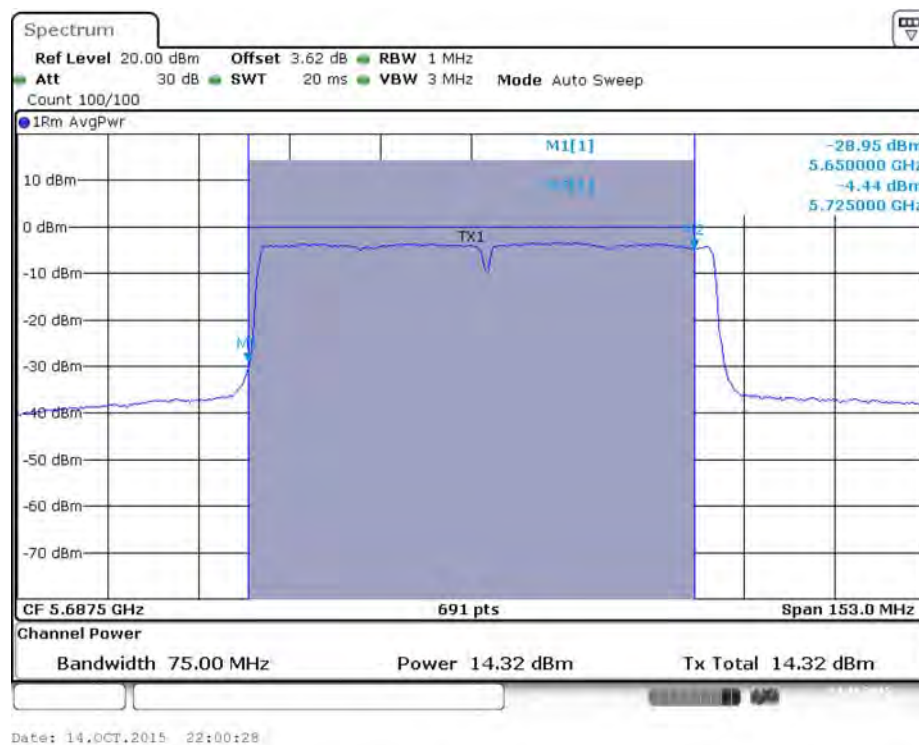
Bandwidth 5.29 MHz Power 5.49 dBm Tx Total 5.49 dBm

Date: 14.OCT.2015 21:56:36

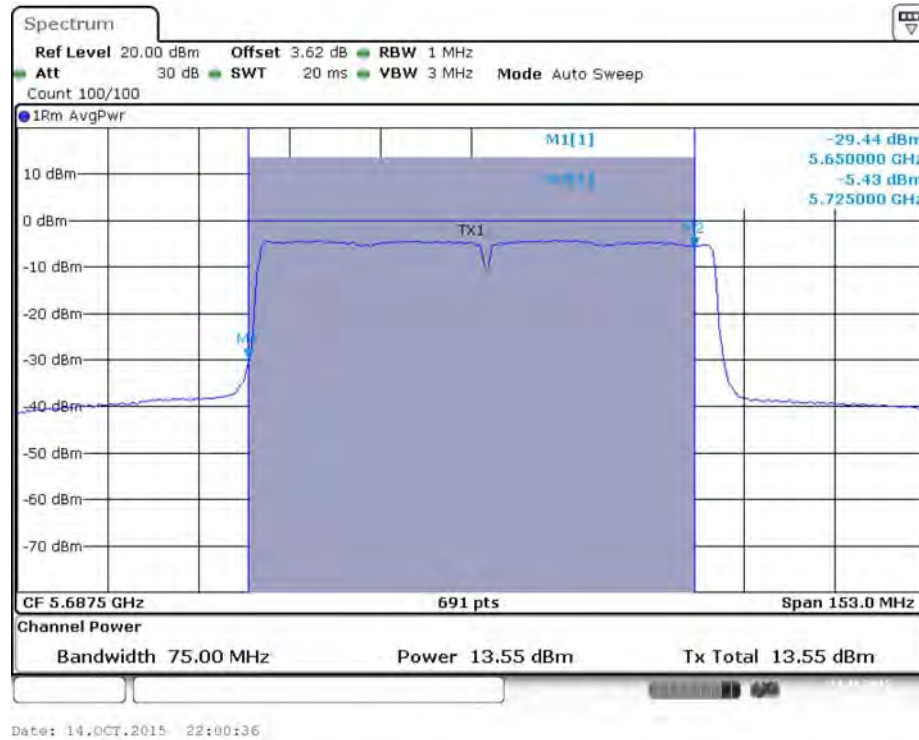
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)

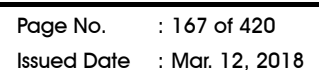


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)





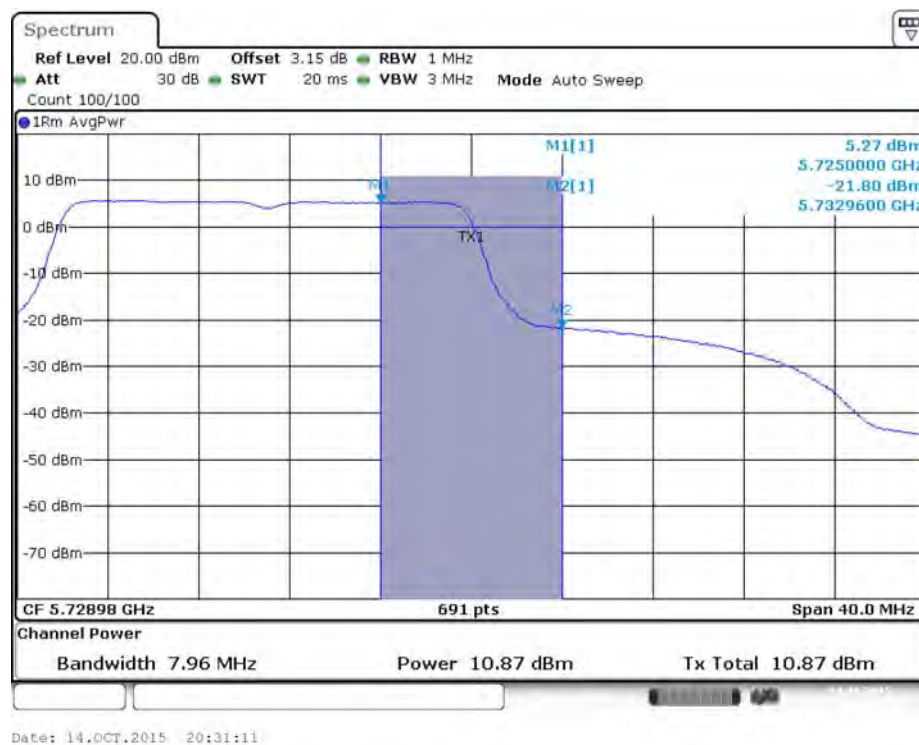
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



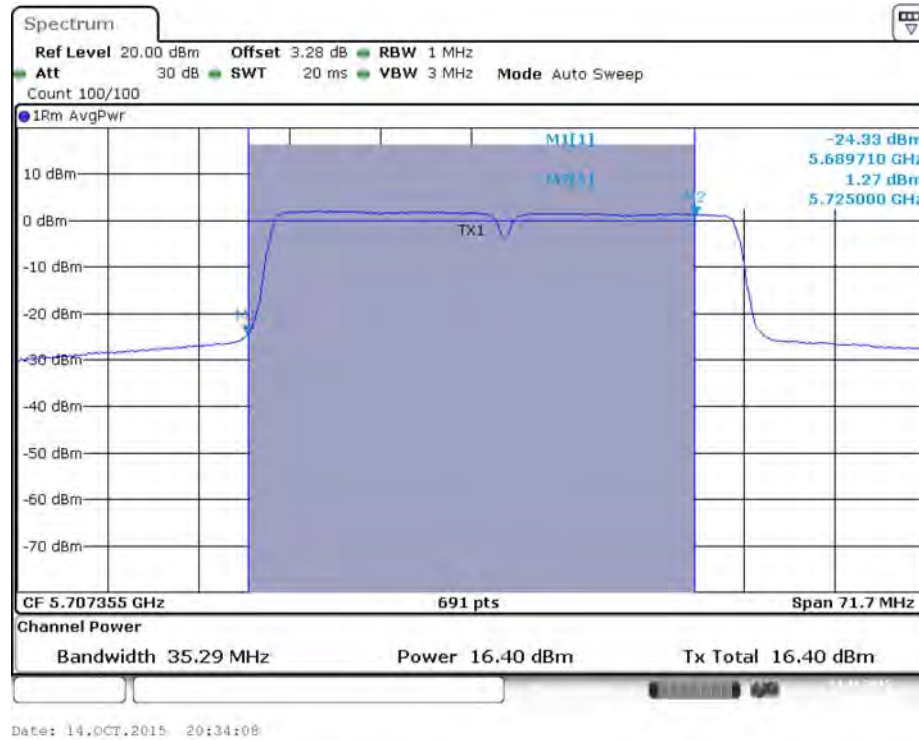
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



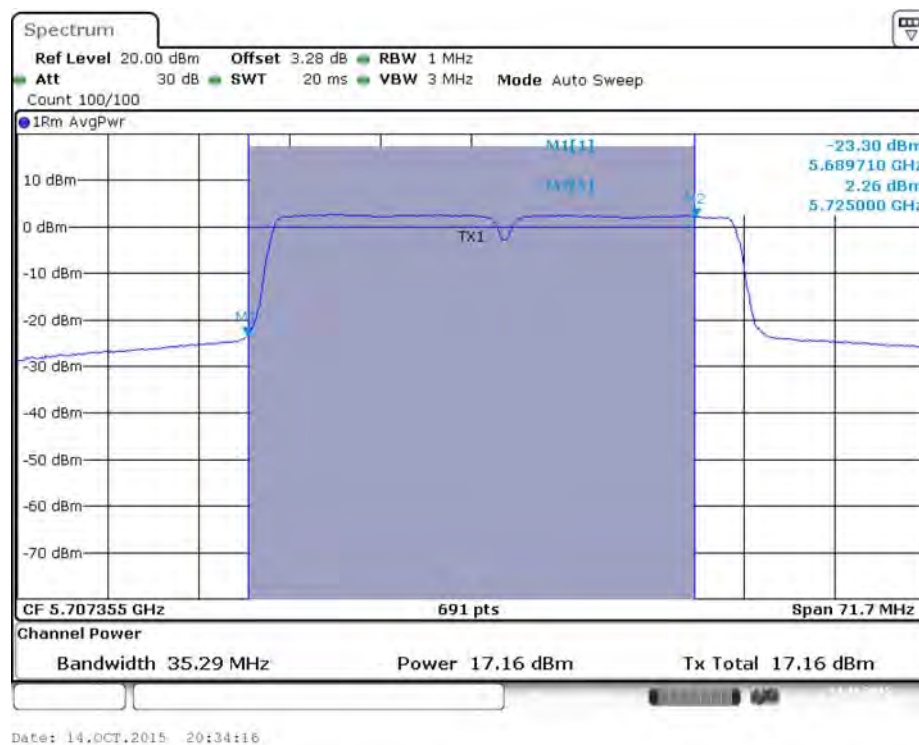
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



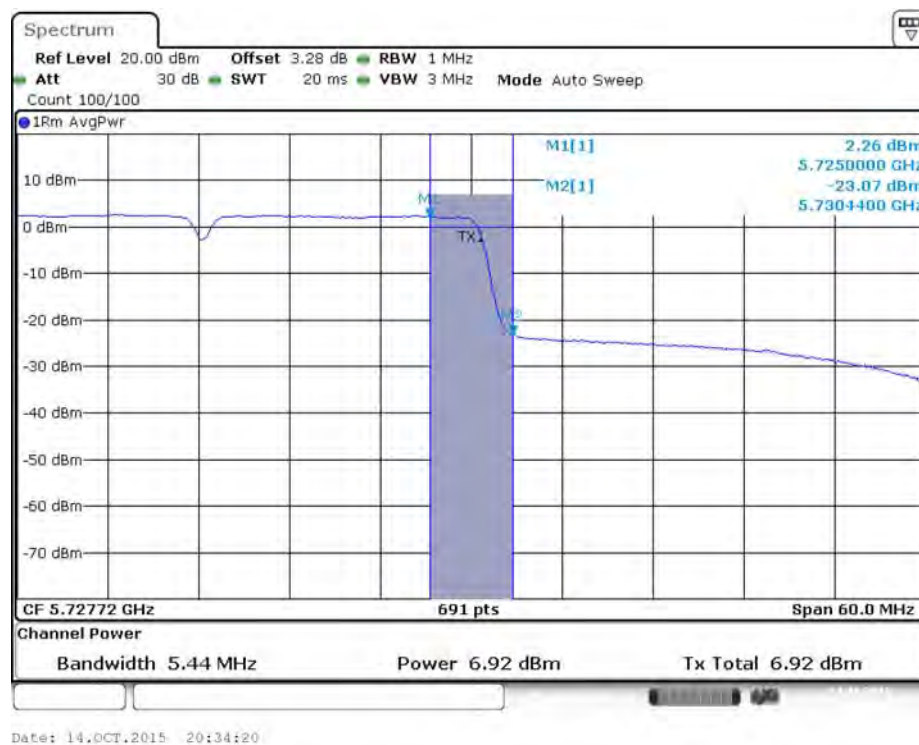
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



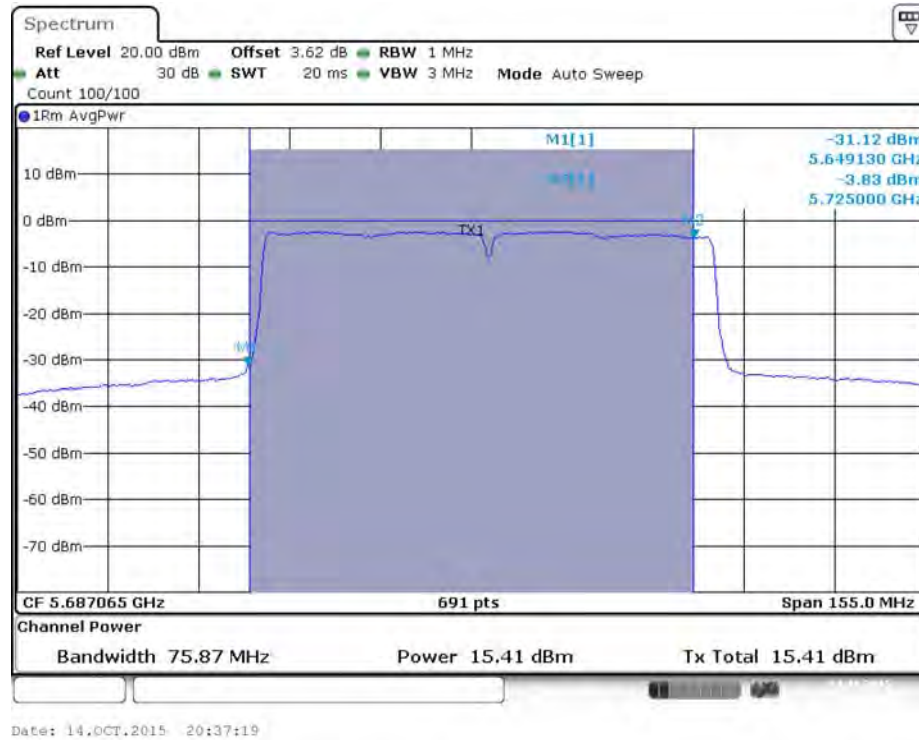
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



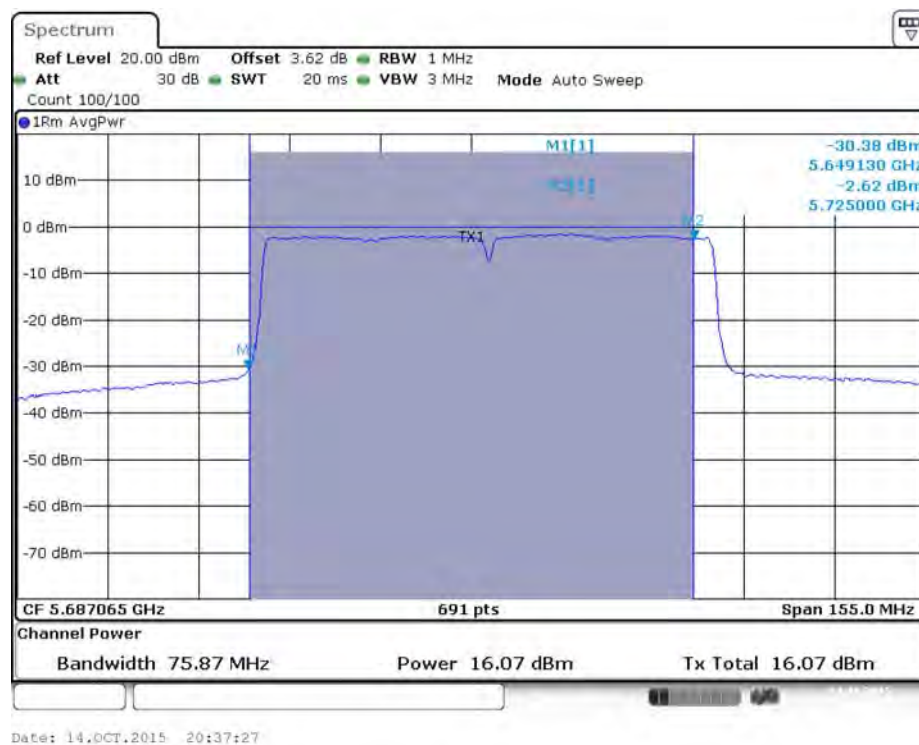
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



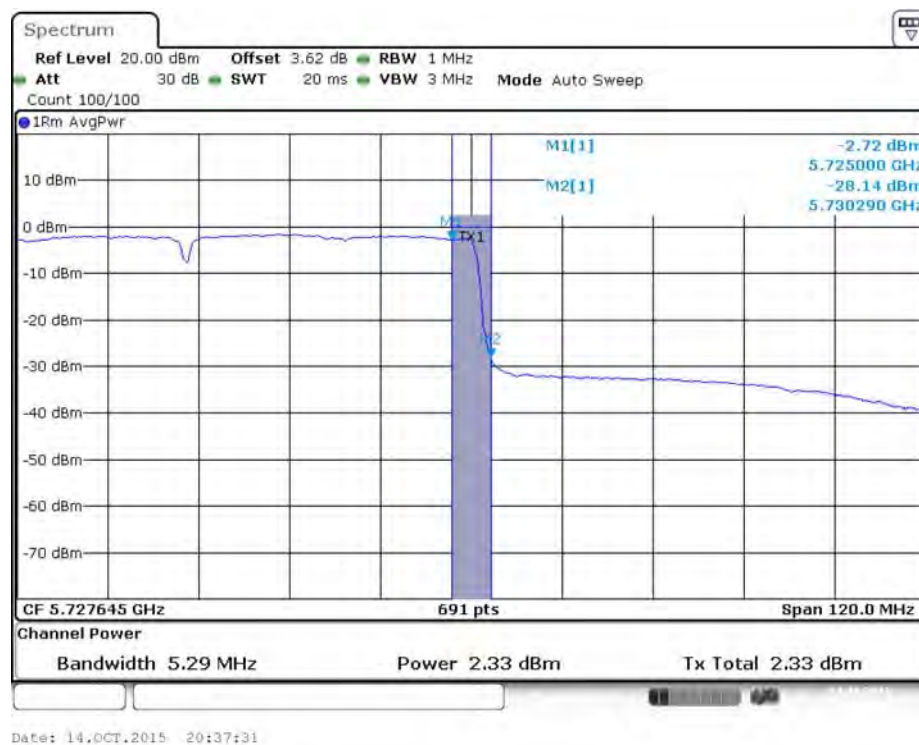
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)

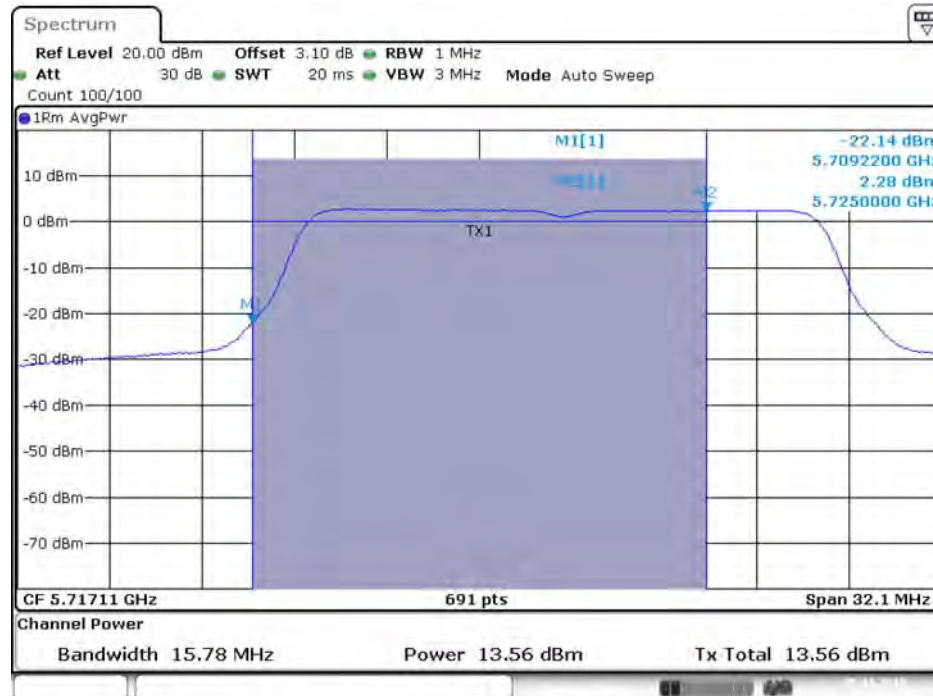


Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



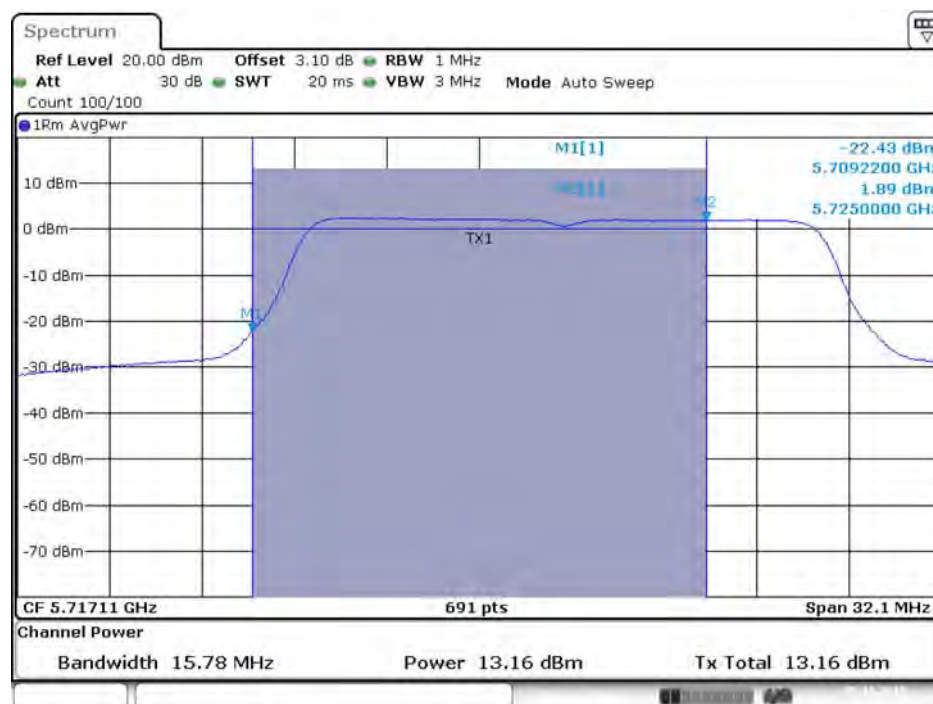
Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz
(UNII 2C)



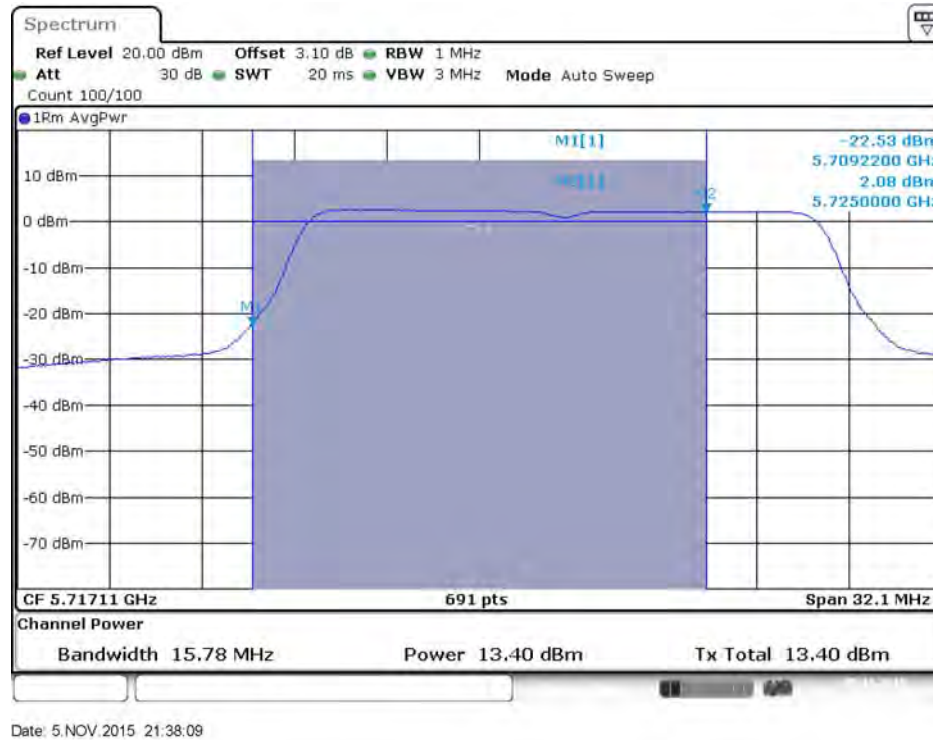
Date: 5 NOV. 2015 21:37:55

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz
(UNII 2C)

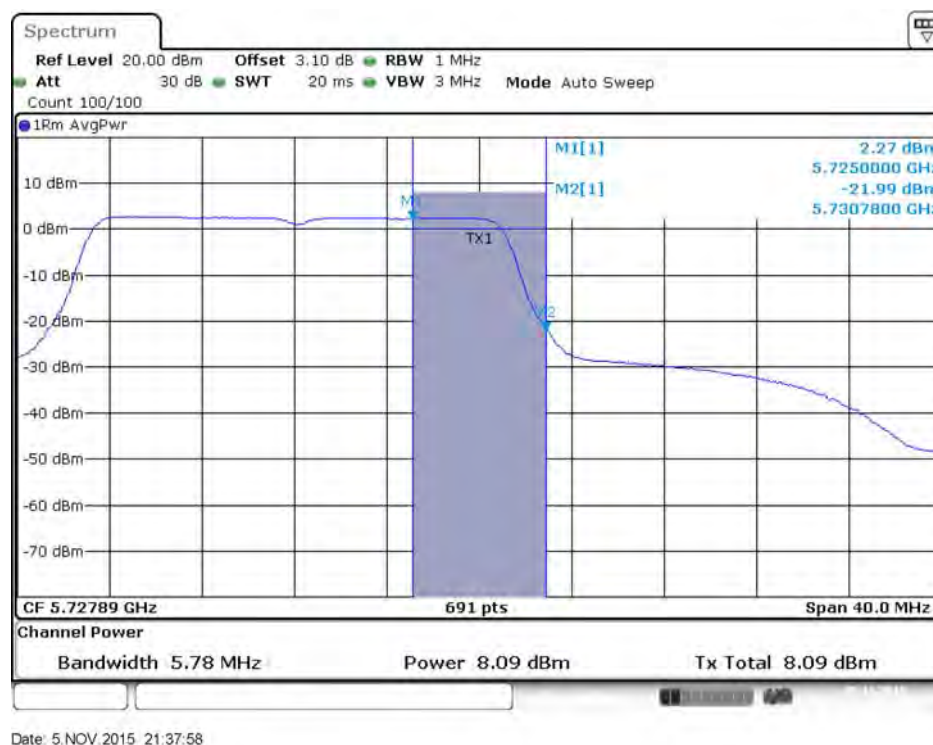


Date: 5 NOV. 2015 21:38:02

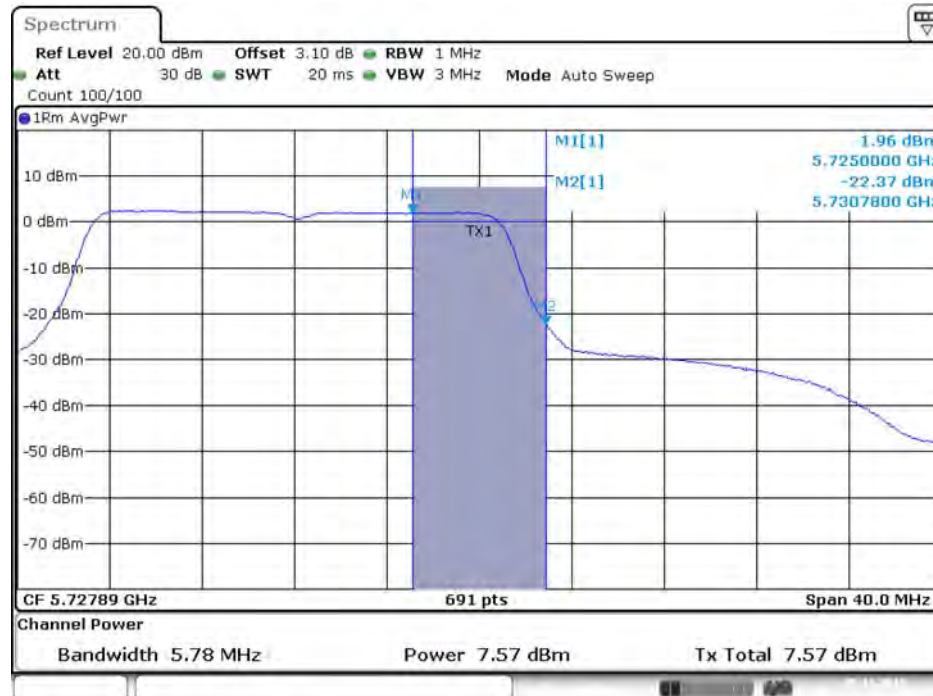
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



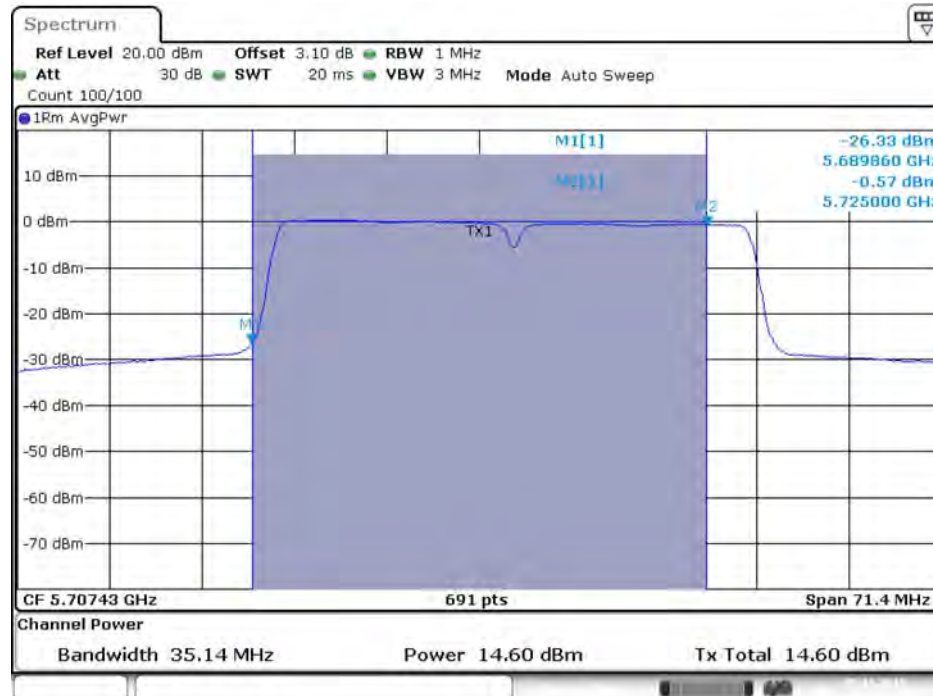
Date: 5 NOV. 2015 21:38:05

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)



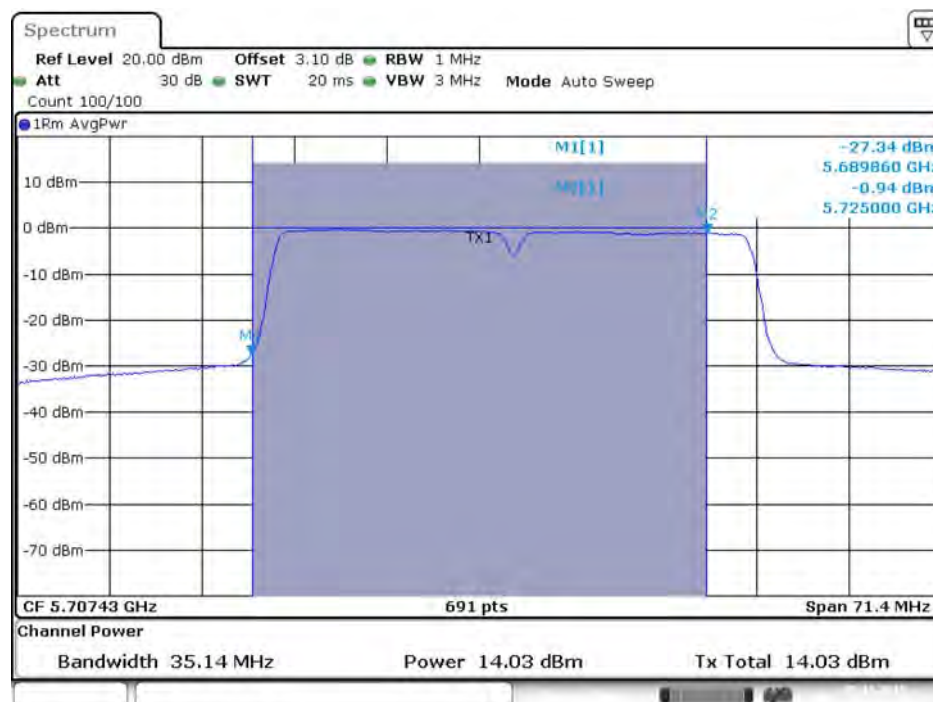
Date: 5 NOV. 2015 21:38:12

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



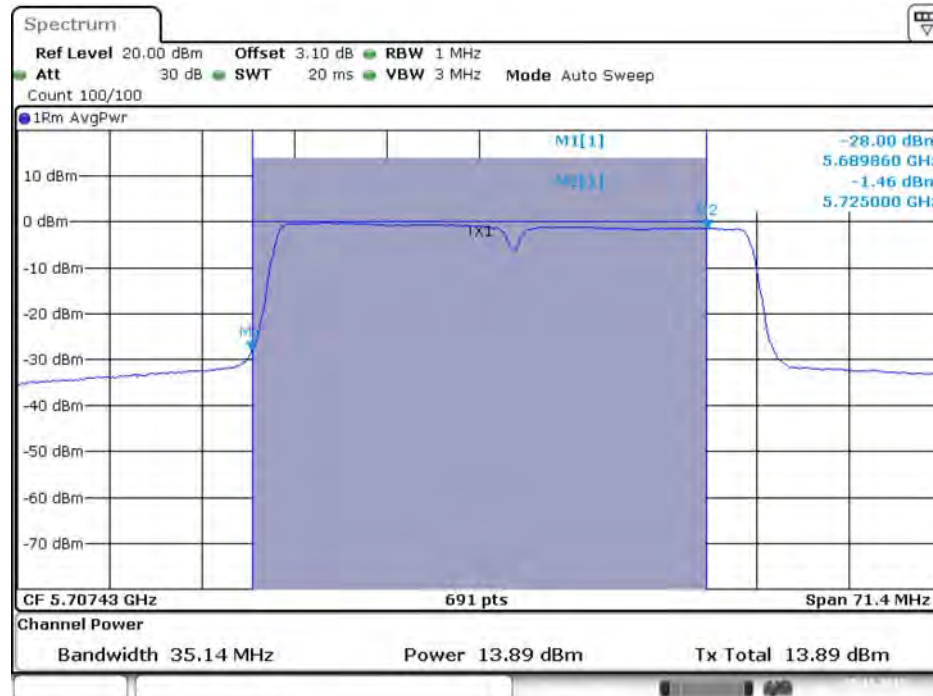
Date: 5 NOV 2015 21:32:49

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



Date: 5 NOV 2015 21:32:56

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)



Date: 5 NOV 2015 21:33:03

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



Date: 5 NOV 2015 21:32:53

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



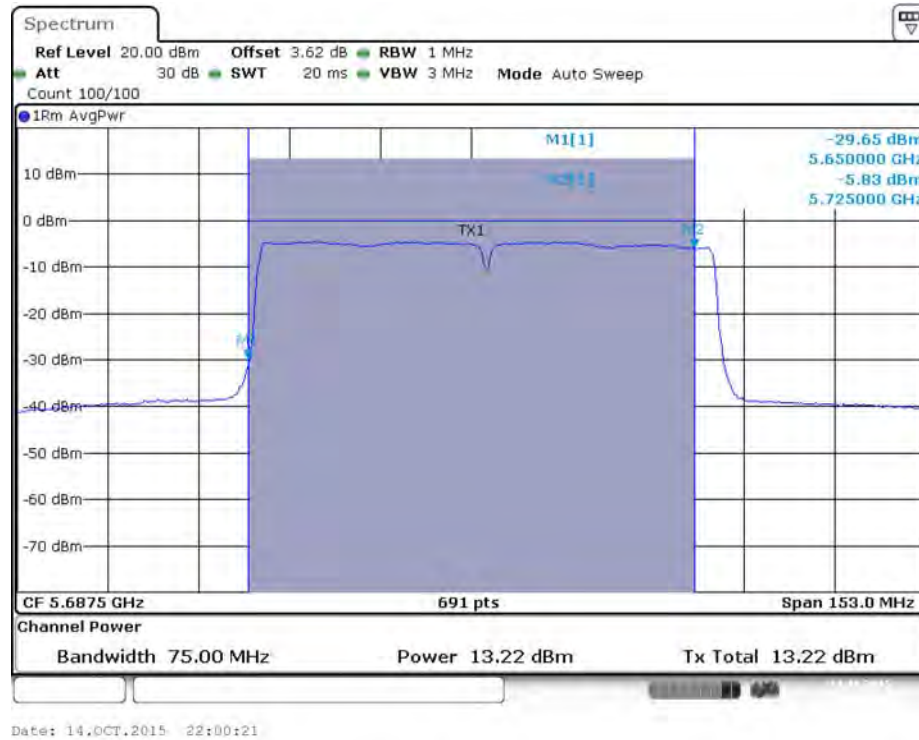
Date: 5 NOV. 2015 21:33:00

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 3)

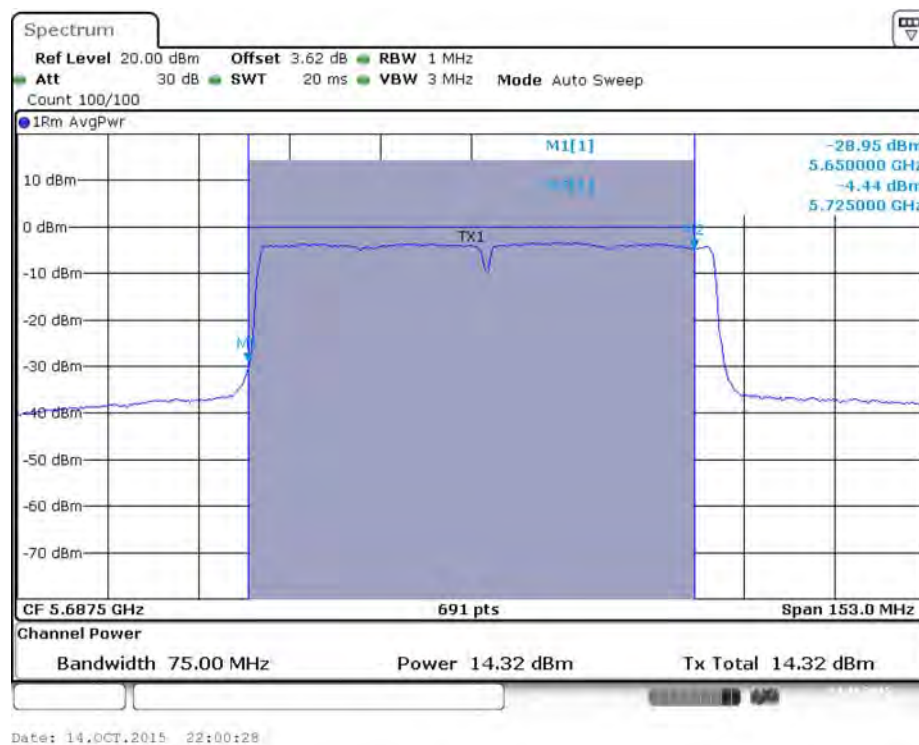


Date: 5 NOV. 2015 21:33:07

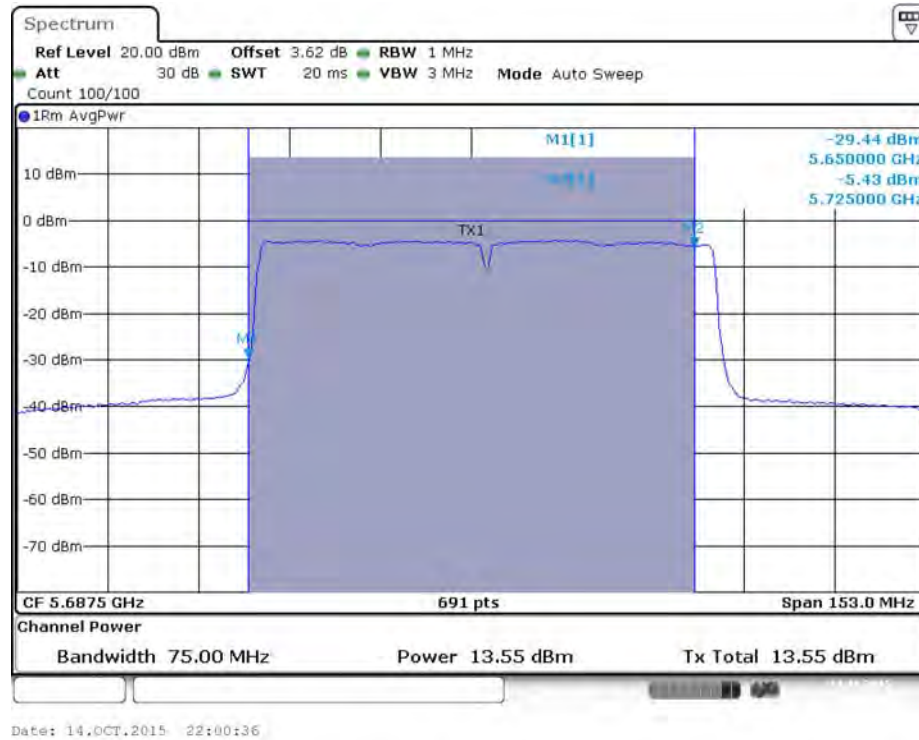
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)



4.5. Power Spectral Density Measurement

4.5.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 4.4.1.

Frequency Band		Limit
☒	5.15~5.25 GHz	
	Operating Mode	
☒	Outdoor access point	17 dBm/MHz
☒	Indoor access point	17 dBm/MHz
☐	Fixed point-to-point access points	17 dBm/MHz
☐	Mobile and portable client devices	11 dBm/MHz
☒	5.25-5.35 GHz	11 dBm/MHz
☒	5.470-5.725 GHz	11 dBm/MHz
☒	5.725~5.85 GHz	30 dBm/500kHz

4.5.2. Measuring Instruments and Setting

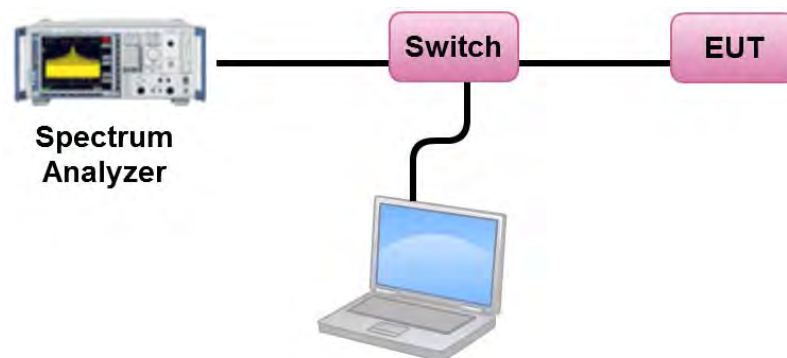
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1000 kHz
VBW	3000 kHz
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB789033 D02 v02r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs.
4. When measuring 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 Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.
5. For 5.725~5.85 GHz, the measured result of PSD level must add $10\log(500\text{kHz}/\text{RBW})$ and the final result should ≤ 30 dBm.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Power Spectral Density

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 14, 2015
Configurations	Chain 1: 5.9dBi / 1TX		

For indoor / outdoor use

Configuration IEEE 802.11a / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	5.96	17.00	Complies
40	5200 MHz	5.48	17.00	Complies
48	5240 MHz	6.14	17.00	Complies
52	5260 MHz	6.28	11.00	Complies
60	5300 MHz	6.41	11.00	Complies
64	5320 MHz	6.10	11.00	Complies
100	5500 MHz	6.59	11.00	Complies
116	5580 MHz	6.47	11.00	Complies
140	5700 MHz	6.56	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	4.31	-3.01	1.30	30.00	Complies
157	5785 MHz	6.04	-3.01	3.03	30.00	Complies
165	5825 MHz	6.28	-3.01	3.27	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	4.52	17.00	Complies
40	5200 MHz	5.48	17.00	Complies
48	5240 MHz	5.59	17.00	Complies
52	5260 MHz	5.18	11.00	Complies
60	5300 MHz	5.52	11.00	Complies
64	5320 MHz	5.08	11.00	Complies
100	5500 MHz	5.73	11.00	Complies
116	5580 MHz	4.95	11.00	Complies
140	5700 MHz	3.31	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	3.06	-3.01	0.05	30.00	Complies
157	5785 MHz	4.77	-3.01	1.76	30.00	Complies
165	5825 MHz	4.82	-3.01	1.81	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-1.62	17.00	Complies
46	5230 MHz	2.12	17.00	Complies
54	5270 MHz	2.12	11.00	Complies
62	5310 MHz	-2.37	11.00	Complies
102	5510 MHz	-2.33	11.00	Complies
110	5550 MHz	1.75	11.00	Complies
134	5670 MHz	2.45	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-1.36	-3.01	-4.37	30.00	Complies
159	5795 MHz	2.06	-3.01	-0.95	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.50	17.00	Complies
58	5290 MHz	-6.08	11.00	Complies
106	5530 MHz	-6.05	11.00	Complies
122	5610 MHz	-1.06	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-4.04	-3.01	-7.05	30.00	Complies

Straddle Channel

Configuration IEEE 802.11a / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	5.10	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.01	-3.01	2.00	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.45	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	4.33	-3.01	1.32	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	1.66	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	1.40	-3.01	-1.61	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-2.94	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-3.54	-3.01	-6.55	30.00	Complies

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 14, 2015
Configurations	Chain 1: 5.9dBi, Chain 2: 5.4dBi / 2TX		

Configuration IEEE 802.11a / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	8.70	14.34	Complies
40	5200 MHz	8.01	14.34	Complies
48	5240 MHz	8.50	14.34	Complies
52	5260 MHz	8.27	8.34	Complies
60	5300 MHz	8.29	8.34	Complies
64	5320 MHz	8.20	8.34	Complies
100	5500 MHz	6.40	8.34	Complies
116	5580 MHz	8.14	8.34	Complies
140	5700 MHz	8.18	8.34	Complies

Note1: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B1 limit $17 - (8.66 - 6) = 14.34\text{dBm/MHz}$.

Note2: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B2 B3 limit $11 - (8.66 - 6) = 8.34\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.95	-3.01	3.94	27.34	Complies
157	5785 MHz	8.94	-3.01	5.93	27.34	Complies
165	5825 MHz	8.88	-3.01	5.87	27.34	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B4 limit $30 - (8.66 - 6) = 27.34\text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.97	14.34	Complies
40	5200 MHz	8.35	14.34	Complies
48	5240 MHz	8.55	14.34	Complies
52	5260 MHz	7.69	8.34	Complies
60	5300 MHz	7.78	8.34	Complies
64	5320 MHz	8.09	8.34	Complies
100	5500 MHz	6.76	8.34	Complies
116	5580 MHz	8.31	8.34	Complies
140	5700 MHz	6.42	8.34	Complies

Note1: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B1 limit $17-(8.66-6)=14.34\text{dBm/MHz}$.
Directional Gain = $10 \cdot \log$

Note2: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B2 B3 limit $11-(8.66-6)=8.34\text{dBm/MHz}$.
Directional Gain = $10 \cdot \log$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.39	-3.01	3.38	27.34	Complies
157	5785 MHz	8.83	-3.01	5.82	27.34	Complies
165	5825 MHz	8.33	-3.01	5.32	27.34	Complies

Note: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B4 limit $30-(8.66-6)=27.34\text{dBm/500kHz}$.
Directional Gain = $10 \cdot \log$

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	1.02	14.34	Complies
46	5230 MHz	4.78	14.34	Complies
54	5270 MHz	4.77	8.34	Complies
62	5310 MHz	-0.21	8.34	Complies
102	5510 MHz	0.42	8.34	Complies
110	5550 MHz	5.10	8.34	Complies
134	5670 MHz	5.04	8.34	Complies

Note1: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}$, so B1 limit $17 - (8.66 - 6) = 14.34 \text{dBm/MHz}$.

Note2: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}$, so B2 B3 limit $11 - (8.66 - 6) = 8.34 \text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	1.37	-3.01	-1.64	27.34	Complies
159	5795 MHz	5.14	-3.01	2.13	27.34	Complies

Note: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}$, so B4 limit $30 - (8.66 - 6) = 27.34 \text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.28	14.34	Complies
58	5290 MHz	-4.57	8.34	Complies
106	5530 MHz	-4.70	8.34	Complies
122	5610 MHz	1.71	8.34	Complies

Note1: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B1 limit $17 - (8.66 - 6) = 14.34\text{dBm/MHz}$.

Note2: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B2 B3 limit $11 - (8.66 - 6) = 8.34\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.08	-3.01	-6.09	27.34	Complies

Note: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B4 limit $30 - (8.66 - 6) = 27.34\text{dBm/500kHz}$.

Straddle Channel

Configuration IEEE 802.11a / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	7.30	8.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 11 - (8.66 - 6) = 8.34 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.97	-3.01	3.96	27.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz.}$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.83	8.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 11 - (8.66 - 6) = 8.34 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.78	-3.01	3.77	27.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz.}$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.81	8.34	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (8.66 - 6) = 8.34 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	$10 \log(500 \text{ kHz/RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	3.24	-3.01	0.23	27.34	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-0.50	8.34	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (8.66 - 6) = 8.34 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	$10 \log(500 \text{ kHz/RBW})$ Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.27	-3.01	-4.28	27.34	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz}$.

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 14, 2015
Configurations	Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX		

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.78	12.49	Complies
40	5200 MHz	9.84	12.49	Complies
48	5240 MHz	9.62	12.49	Complies
52	5260 MHz	6.34	6.49	Complies
60	5300 MHz	6.45	6.49	Complies
64	5320 MHz	6.29	6.49	Complies
100	5500 MHz	6.44	6.49	Complies
116	5580 MHz	6.42	6.49	Complies
140	5700 MHz	6.02	6.49	Complies

Note1:
$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}, \text{ so B1 limit } 17 - (10.51 - 6) = 12.49 \text{ dBm/MHz}.$$

Note2:
$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}, \text{ so B2 B3 limit } 11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	6.87	-3.01	3.86	25.49	Complies
157	5785 MHz	10.45	-3.01	7.44	25.49	Complies
165	5825 MHz	10.15	-3.01	7.14	25.49	Complies

Note:
$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}, \text{ so B4 limit } 30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}.$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.53	12.49	Complies
40	5200 MHz	9.25	12.49	Complies
48	5240 MHz	8.96	12.49	Complies
52	5260 MHz	6.34	6.49	Complies
60	5300 MHz	6.28	6.49	Complies
64	5320 MHz	6.13	6.49	Complies
100	5500 MHz	6.28	6.49	Complies
116	5580 MHz	6.08	6.49	Complies
140	5700 MHz	6.12	6.49	Complies

Note1: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B1 limit $17 - (10.51 - 6) = 12.49 \text{ dBm/MHz}$.
Directional Gain = $10 \cdot \log$

Note2: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B2 B3 limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.
Directional Gain = $10 \cdot \log$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	5.26	-3.01	2.25	25.49	Complies
157	5785 MHz	9.56	-3.01	6.55	25.49	Complies
165	5825 MHz	7.44	-3.01	4.43	25.49	Complies

Note: $\left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B4 limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.
Directional Gain = $10 \cdot \log$

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.50	12.49	Complies
46	5230 MHz	3.52	12.49	Complies
54	5270 MHz	6.00	6.49	Complies
62	5310 MHz	-0.73	6.49	Complies
102	5510 MHz	0.11	6.49	Complies
110	5550 MHz	3.83	6.49	Complies
134	5670 MHz	6.39	6.49	Complies

Note1: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B1 limit $17 - (10.51 - 6) = 12.49 \text{ dBm/MHz}$.

Note2: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B2 B3 limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-0.60	-3.01	-3.61	25.49	Complies
159	5795 MHz	6.22	-3.01	3.21	25.49	Complies

Note: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B4 limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.00	12.49	Complies
58	5290 MHz	-5.39	6.49	Complies
106	5530 MHz	-5.47	6.49	Complies
122	5610 MHz	1.44	6.49	Complies

Note1:

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}, \text{ so B1 limit } 17 - (10.51 - 6) = 12.49\text{dBm/MHz}.$$

Note2:

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}, \text{ so B2 B3 limit } 11 - (10.51 - 6) = 6.49\text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.93	-3.01	-6.94	25.49	Complies

Note:

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}, \text{ so B4 limit } 30 - (10.51 - 6) = 25.49\text{dBm/500kHz}.$$

Straddle Channel

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.07	6.49	Complies

Note: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}$, so limit $11-(10.51-6)=6.49\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.81	-3.01	2.80	25.49	Complies

Note: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}$, so limit $30-(10.51-6)=25.49\text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.10	6.49	Complies

Note: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}$, so limit $11-(10.51-6)=6.49\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.77	-3.01	2.76	25.49	Complies

Note: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51\text{dBi} > 6\text{dBi}$, so limit $30-(10.51-6)=25.49\text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	4.79	6.49	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	4.04	-3.01	1.03	25.49	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-0.82	6.49	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.38	-3.01	-4.39	25.49	Complies

Note:
 $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

For Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 23, 2015
Configurations	Chain 1: 5.9dBi, Chain 2: 5.4dBi / 2TX		

For indoor / outdoor use

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	7.97	14.34	Complies
40	5200 MHz	8.35	14.34	Complies
48	5240 MHz	8.55	14.34	Complies
52	5260 MHz	7.69	8.34	Complies
60	5300 MHz	7.78	8.34	Complies
64	5320 MHz	8.11	8.34	Complies
100	5500 MHz	6.76	8.34	Complies
116	5580 MHz	7.90	8.34	Complies
140	5700 MHz	6.42	8.34	Complies

Note1: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B1 limit $17-(8.66-6)=14.34\text{dBm/MHz}$.

Note2: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B2 B3 limit $11-(8.66-6)=8.34\text{dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	5.59	-3.01	2.58	27.34	Complies
157	5785 MHz	8.83	-3.01	5.82	27.34	Complies
165	5825 MHz	7.85	-3.01	4.84	27.34	Complies

Note: $Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66\text{dBi} > 6\text{dBi}$, so B4 limit $30-(8.66-6)=27.34\text{dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	1.02	14.34	Complies
46	5230 MHz	4.78	14.34	Complies
54	5270 MHz	4.77	8.34	Complies
62	5310 MHz	-0.21	8.34	Complies
102	5510 MHz	0.42	8.34	Complies
110	5550 MHz	5.10	8.34	Complies
134	5670 MHz	5.04	8.34	Complies

Note1:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}, \text{ so B1 limit } 17 - (8.66 - 6) = 14.34 \text{ dBm/MHz}.$$

Note2:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}, \text{ so B2 B3 limit } 11 - (8.66 - 6) = 8.34 \text{ dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	1.37	-3.01	-1.64	27.34	Complies
159	5795 MHz	5.14	-3.01	2.13	27.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}, \text{ so B4 limit } 30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz}.$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-3.28	14.34	Complies
58	5290 MHz	-4.57	8.34	Complies
106	5530 MHz	-4.70	8.34	Complies
122	5610 MHz	1.71	8.34	Complies

Note1:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}, \text{ so B1 limit } 17 - (8.66 - 6) = 14.34 \text{dBm/MHz}.$$

Note2:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}, \text{ so B2 B3 limit } 11 - (8.66 - 6) = 8.34 \text{dBm/MHz}.$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.08	-3.01	-6.09	27.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{dBi} > 6 \text{dBi}, \text{ so B4 limit } 30 - (8.66 - 6) = 27.34 \text{dBm/500kHz}.$$

Straddle Channel

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	6.83	8.34	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (8.66 - 6) = 8.34 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	6.78	-3.01	3.77	27.34	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.81	8.34	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (8.66 - 6) = 8.34 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	3.24	-3.01	0.23	27.34	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-0.50	8.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 11 - (8.66 - 6) = 8.34 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.27	-3.01	-4.28	27.34	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 8.66 \text{ dBi} > 6 \text{ dBi, so limit } 30 - (8.66 - 6) = 27.34 \text{ dBm/500kHz.}$$

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 23, 2015
Configurations	Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX		

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.53	12.49	Complies
40	5200 MHz	9.25	12.49	Complies
48	5240 MHz	8.96	12.49	Complies
52	5260 MHz	6.34	6.49	Complies
60	5300 MHz	6.28	6.49	Complies
64	5320 MHz	6.43	6.49	Complies
100	5500 MHz	6.28	6.49	Complies
116	5580 MHz	5.66	6.49	Complies
140	5700 MHz	6.12	6.49	Complies

Note1: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B1 limit $17 - (10.51 - 6) = 12.49 \text{ dBm/MHz}$.

Note2: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B2 B3 limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	5.26	-3.01	2.25	25.49	Complies
157	5785 MHz	9.56	-3.01	6.55	25.49	Complies
165	5825 MHz	7.44	-3.01	4.43	25.49	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B4 limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	0.50	12.49	Complies
46	5230 MHz	6.03	12.49	Complies
54	5270 MHz	3.59	6.49	Complies
62	5310 MHz	0.27	6.49	Complies
102	5510 MHz	1.83	6.49	Complies
110	5550 MHz	3.60	6.49	Complies
134	5670 MHz	3.37	6.49	Complies

Note1: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B1 limit $17 - (10.51 - 6) = 12.49 \text{ dBm/MHz}$.

Note2: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B2 B3 limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	-0.60	-3.01	-3.61	25.49	Complies
159	5795 MHz	5.63	-3.01	2.62	25.49	Complies

Note: $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so B4 limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-2.81	12.49	Complies
58	5290 MHz	-5.39	6.49	Complies
106	5530 MHz	-4.57	6.49	Complies
122	5610 MHz	0.62	6.49	Complies

Note1:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi, so B1 limit } 17 - (10.51 - 6) = 12.49 \text{ dBm/MHz.}$$

Note2:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi, so B2 B3 limit } 11 - (10.51 - 6) = 6.49 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-3.93	-3.01	-6.94	25.49	Complies

Note:

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi, so B4 limit } 30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz.}$$

Straddle Channel

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	5.97	6.49	Complies

Note: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	5.61	-3.01	2.60	25.49	Complies

Note: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	3.43	6.49	Complies

Note: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $11 - (10.51 - 6) = 6.49 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	2.50	-3.01	-0.51	25.49	Complies

Note: $\text{Directional Gain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi}$, so limit $30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-0.82	6.49	Complies

Note:

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi, so limit } 11 - (10.51 - 6) = 6.49 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.38	-3.01	-4.39	25.49	Complies

Note:

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.51 \text{ dBi} > 6 \text{ dBi, so limit } 30 - (10.51 - 6) = 25.49 \text{ dBm/500kHz.}$$

Note: All the test values were listed in the report.

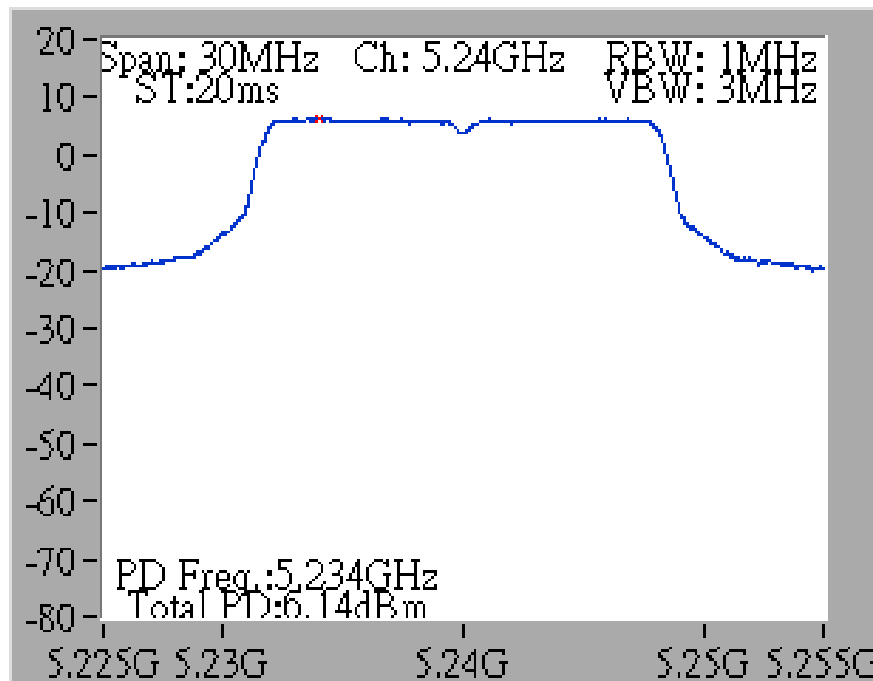
For plots, only the channel with worse result was shown.

For Non-Beamforming Mode

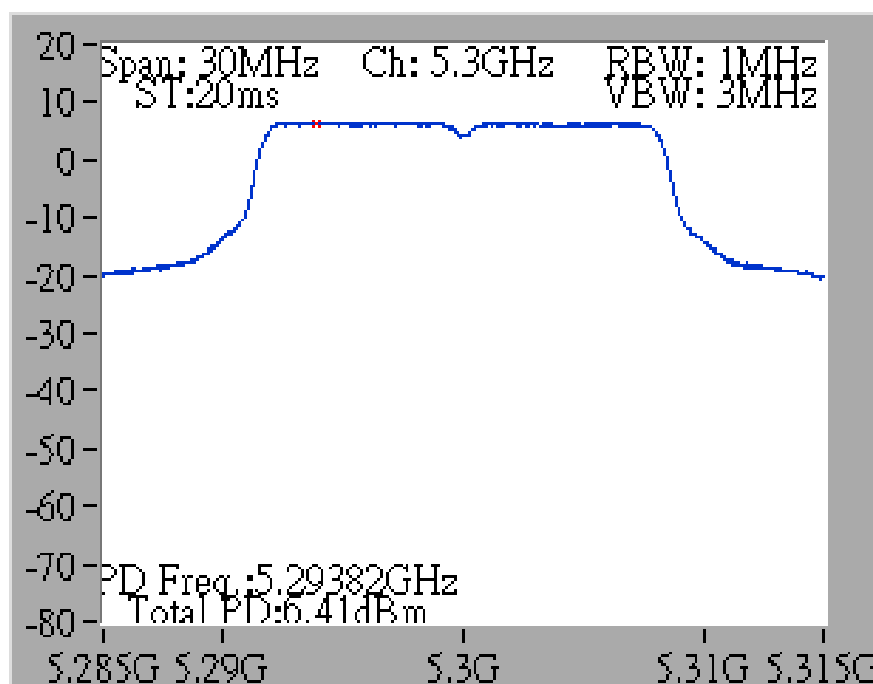
For indoor / outdoor use

Chain 1: 5.9dBi / 1TX

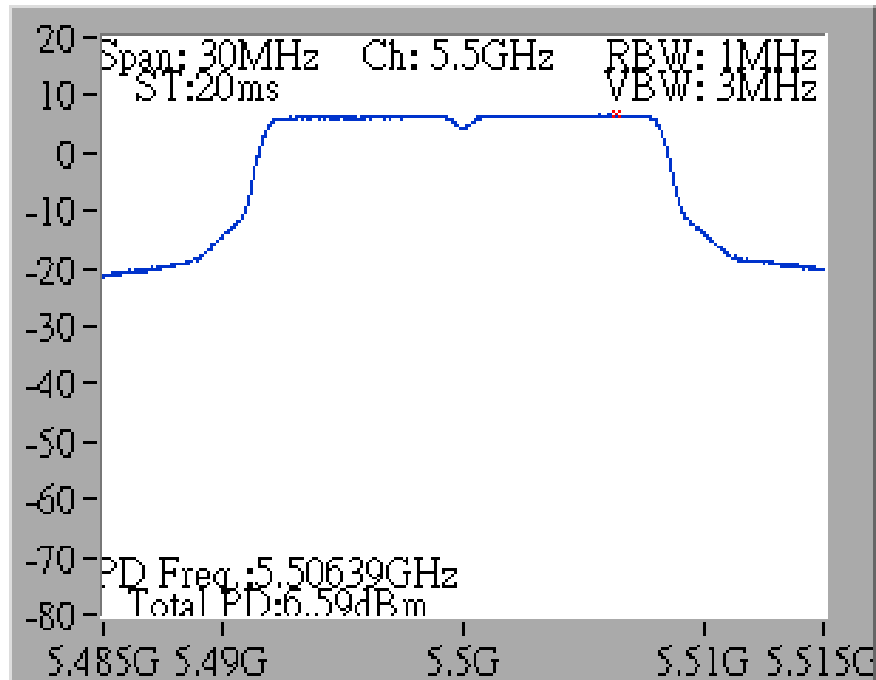
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5240 MHz



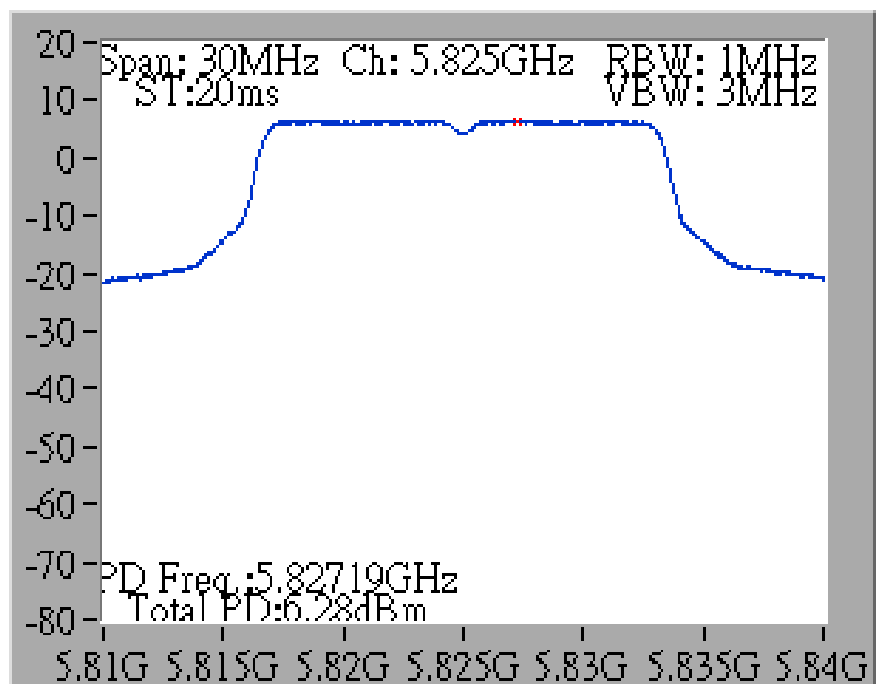
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5300 MHz



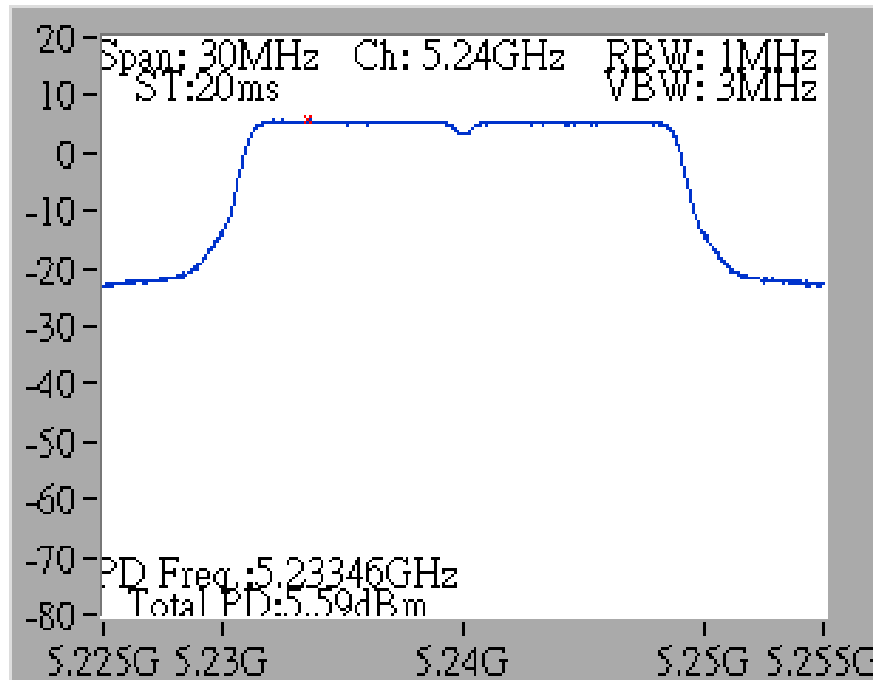
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5500 MHz



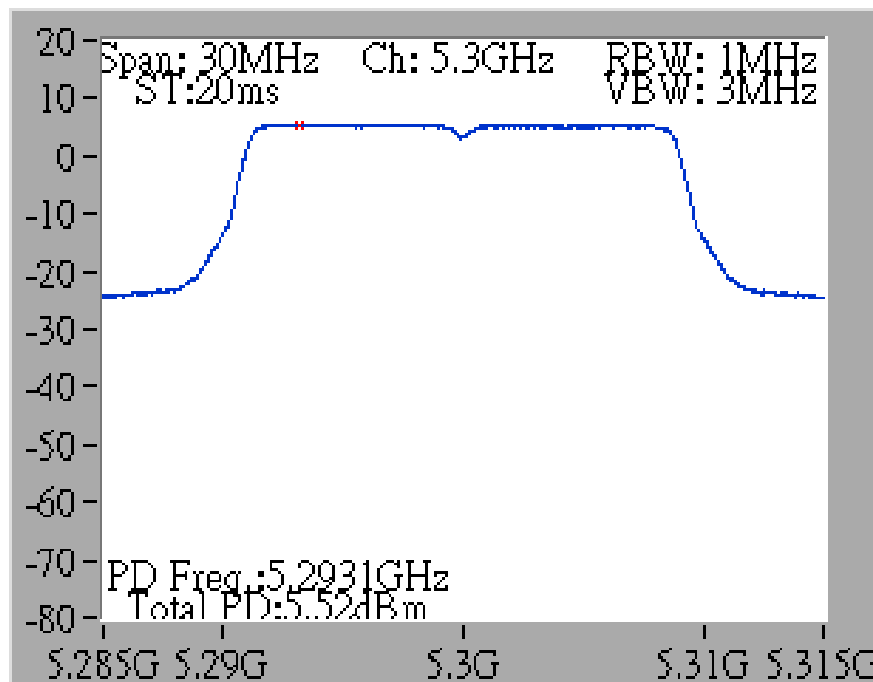
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz



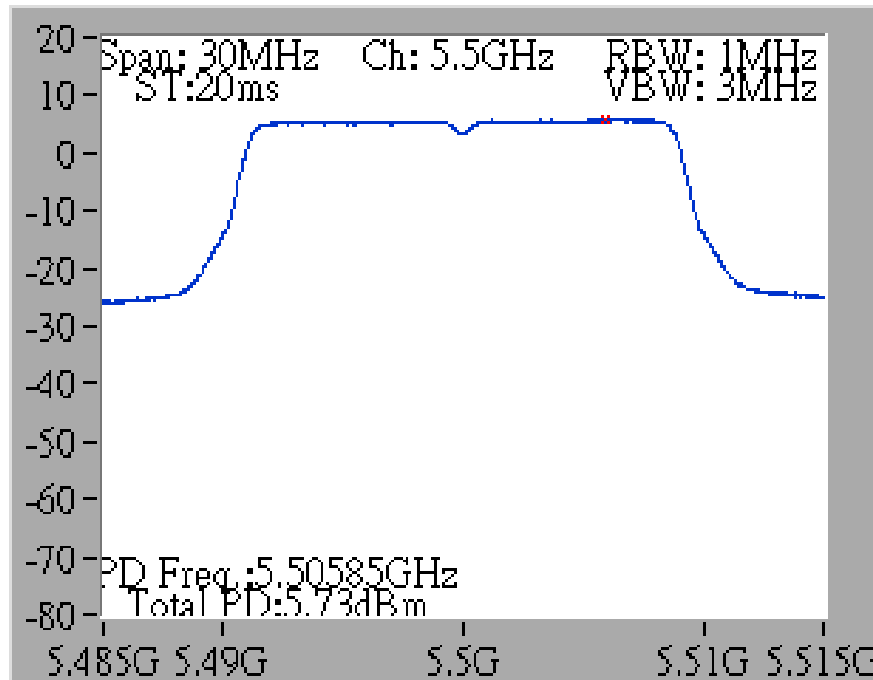
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5240 MHz



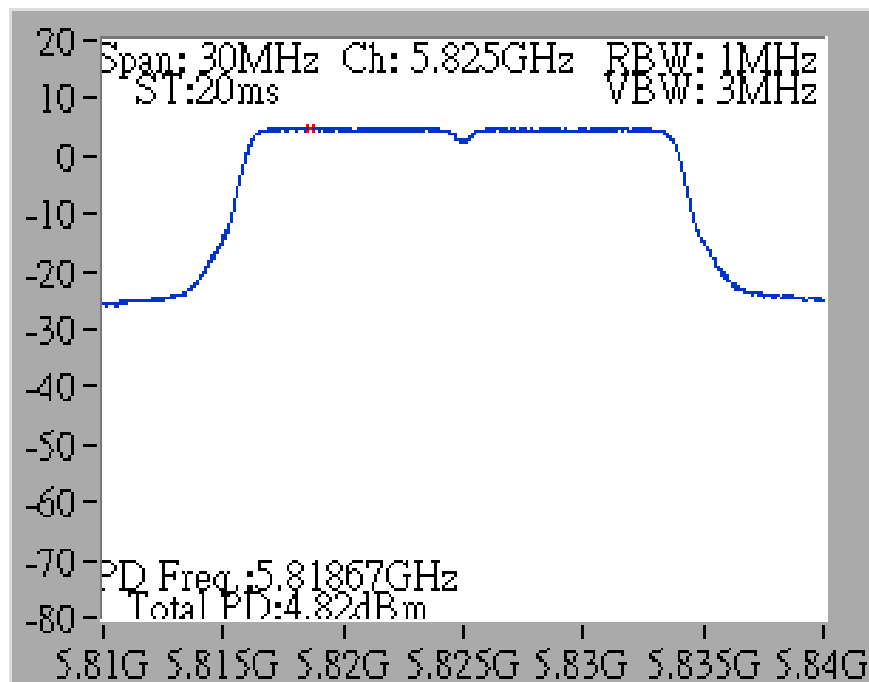
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5300 MHz



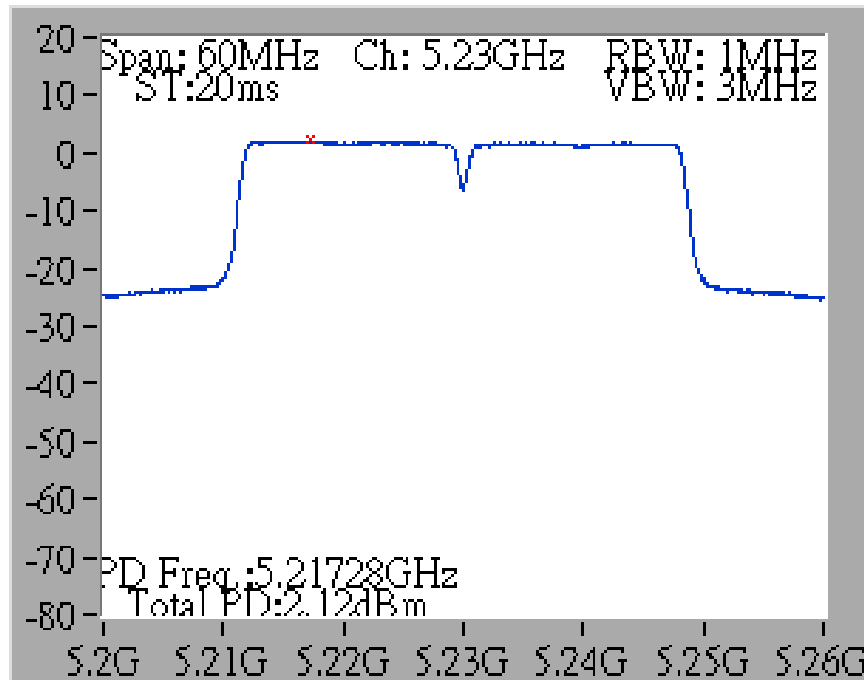
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5500 MHz



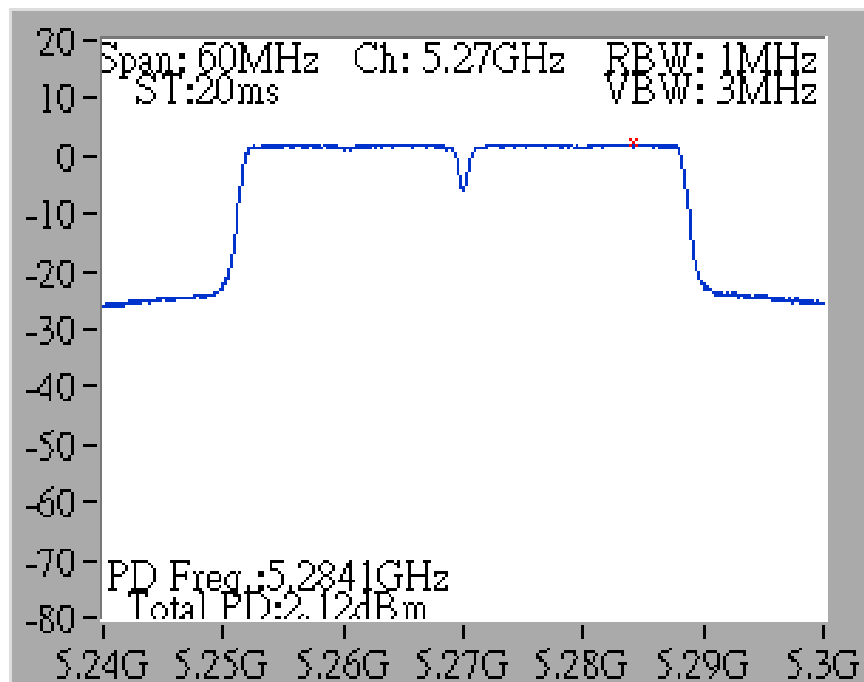
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5825 MHz



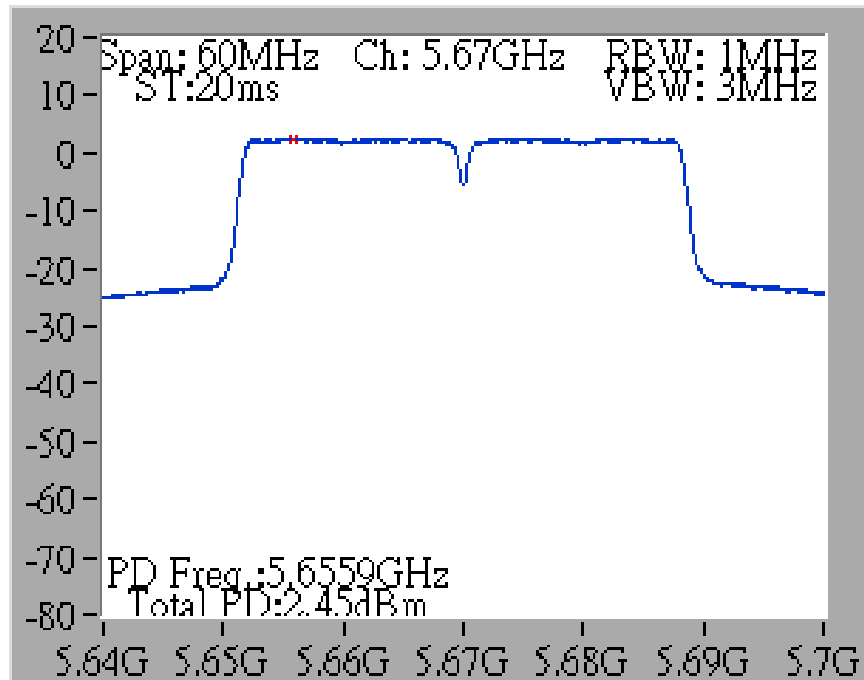
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz



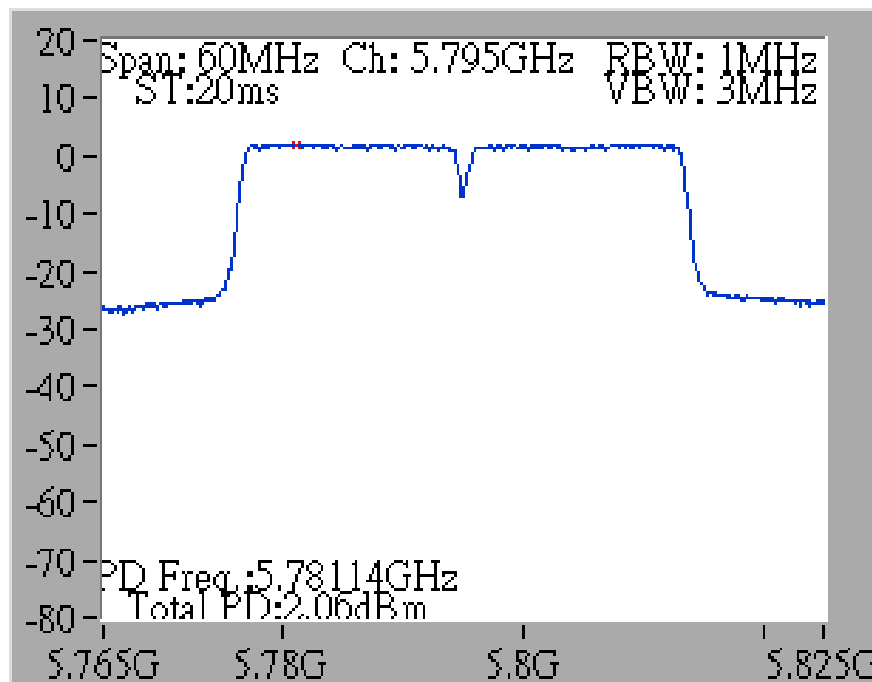
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5270 MHz



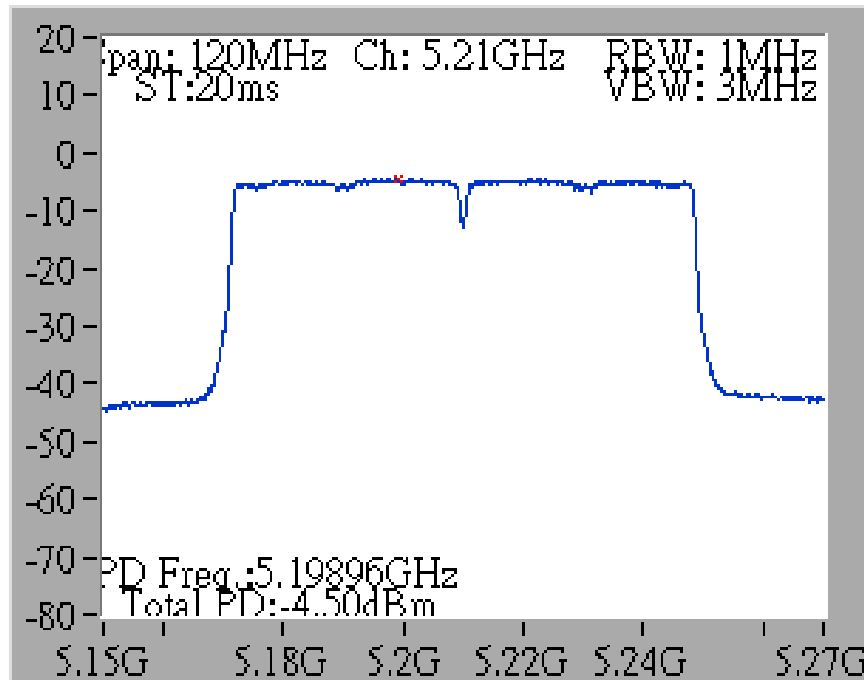
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5670 MHz



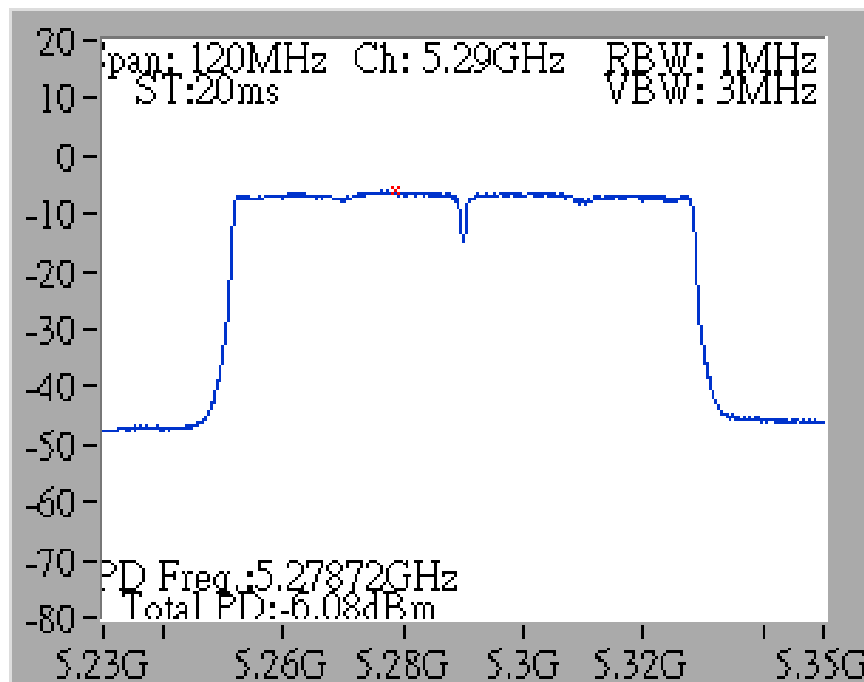
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5795 MHz



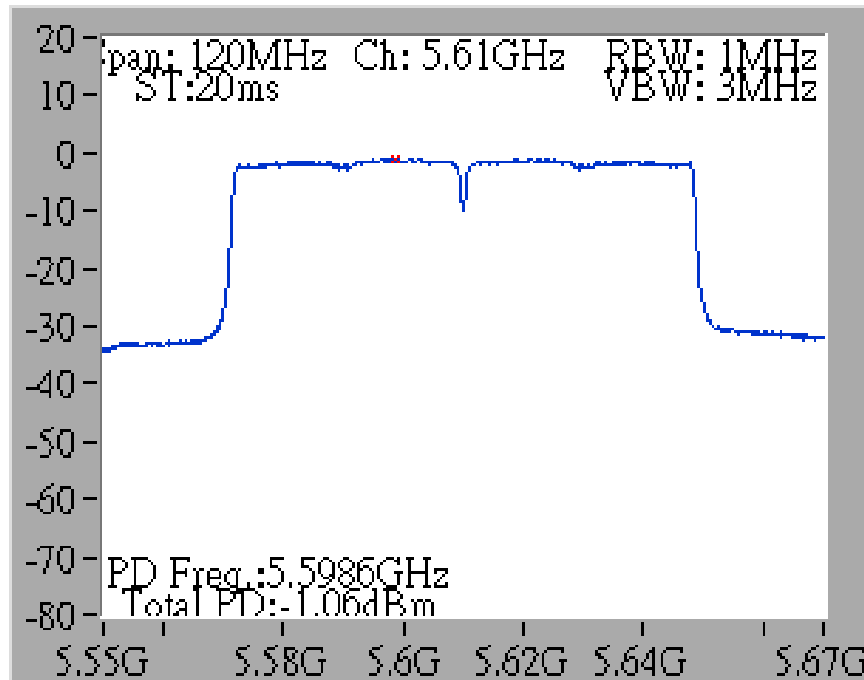
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz



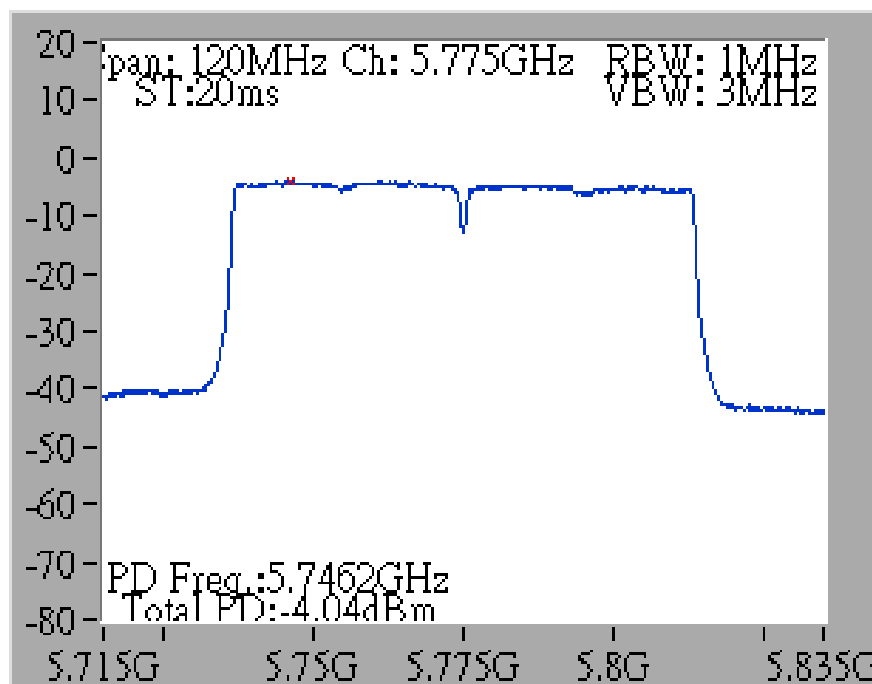
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5610 MHz

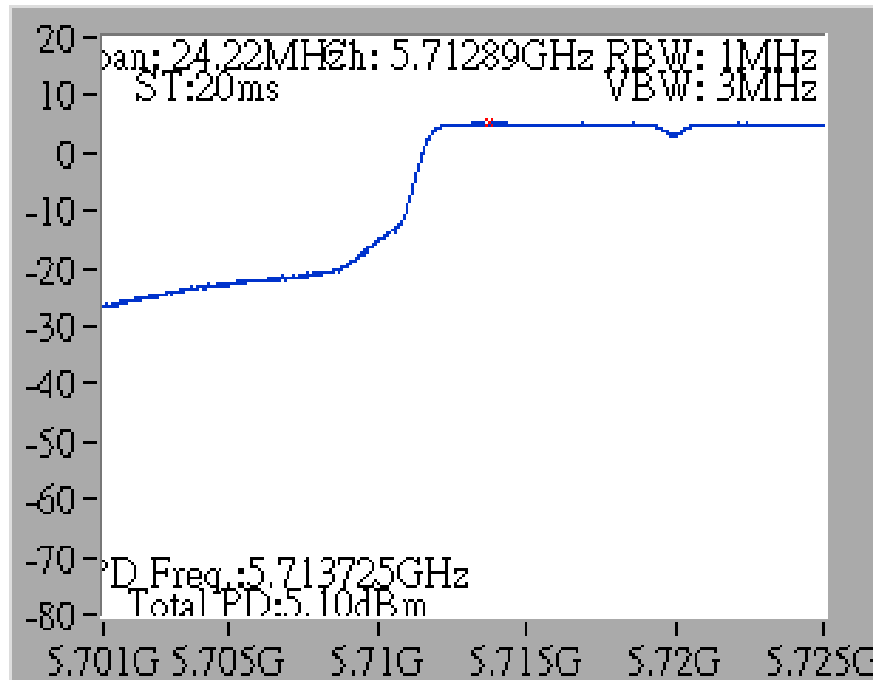


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5775 MHz

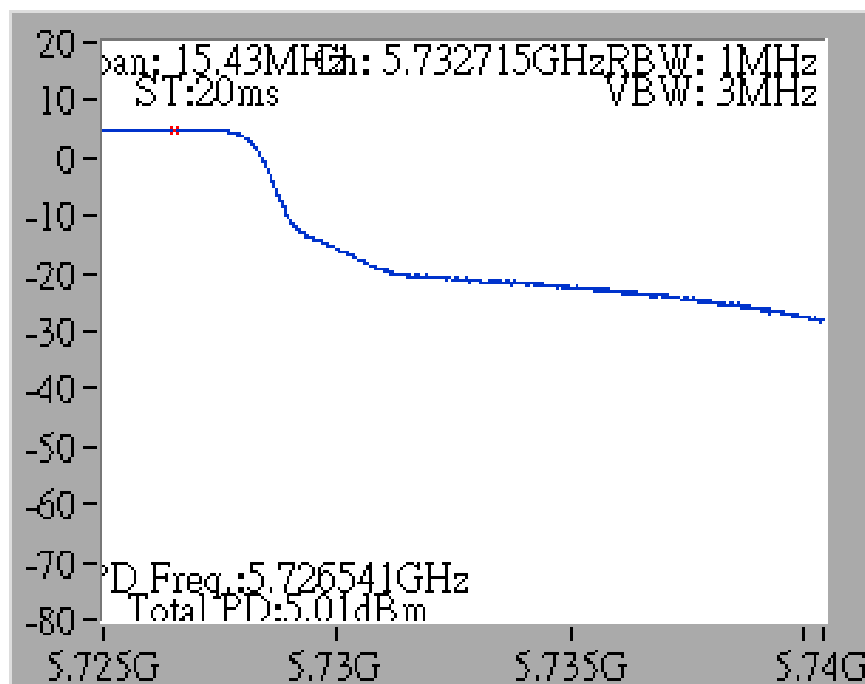


Straddle Channel

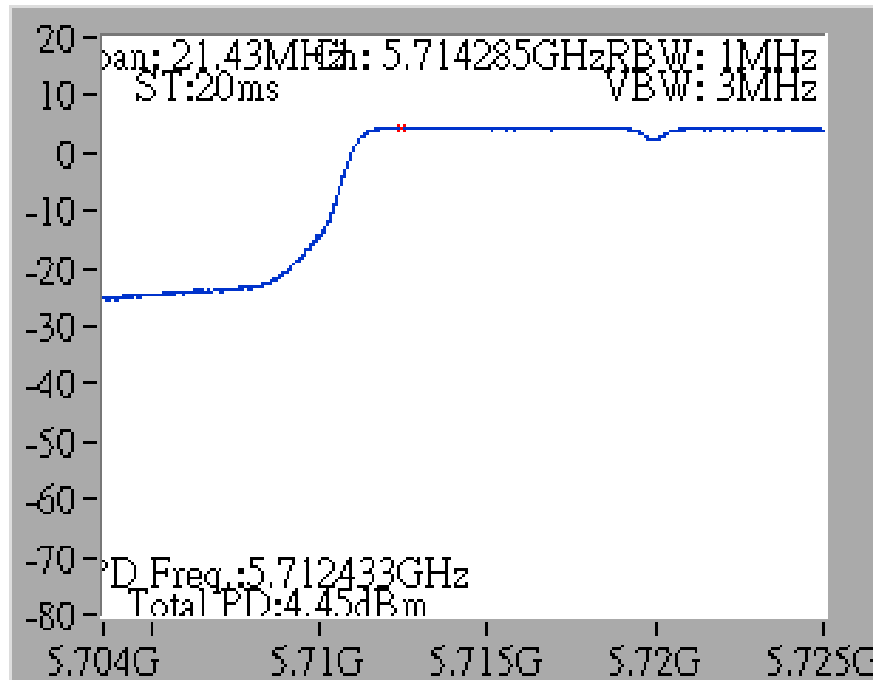
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 2C)



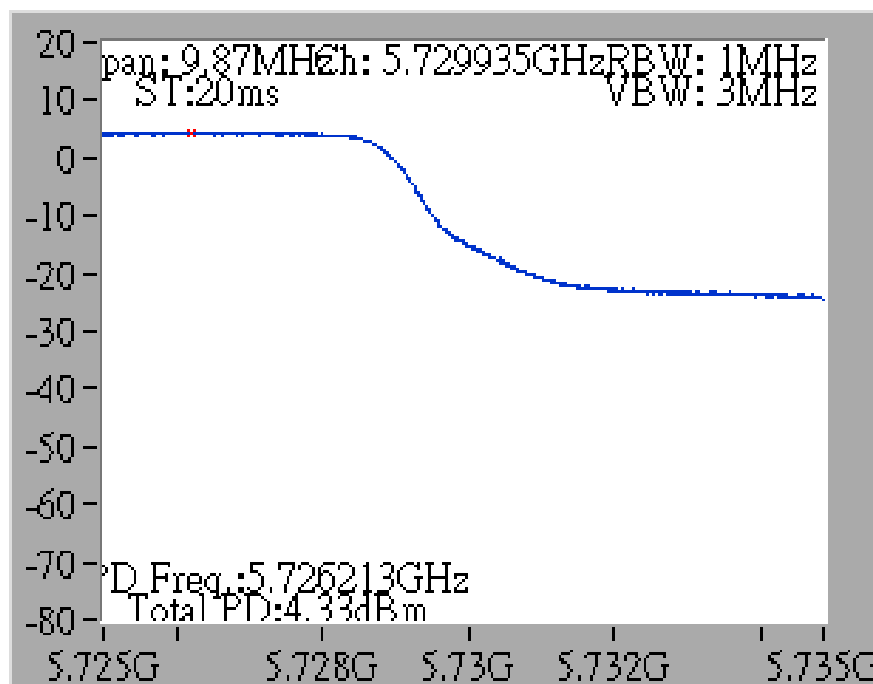
Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5720 MHz (UNII 3)



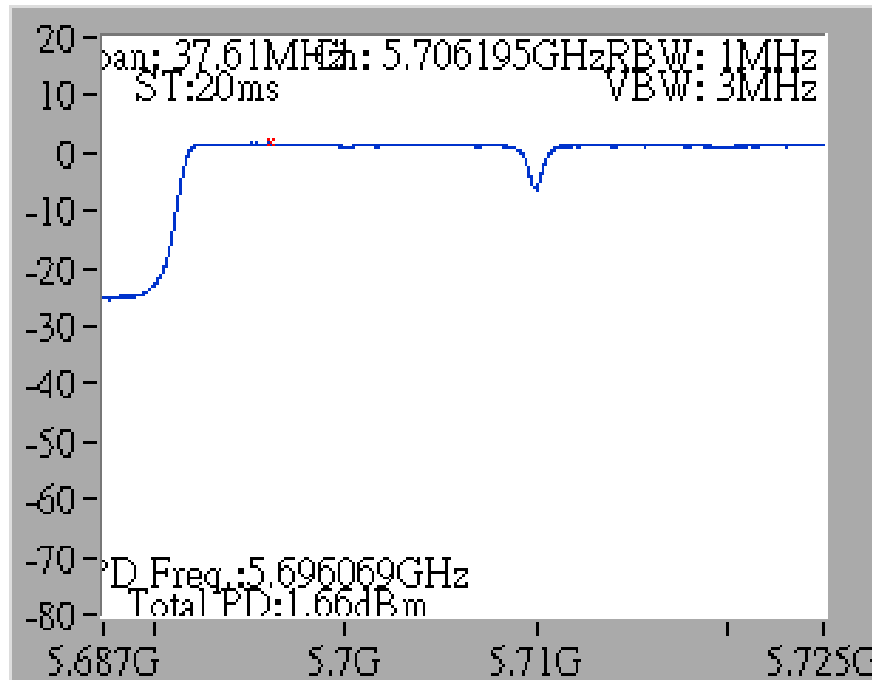
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



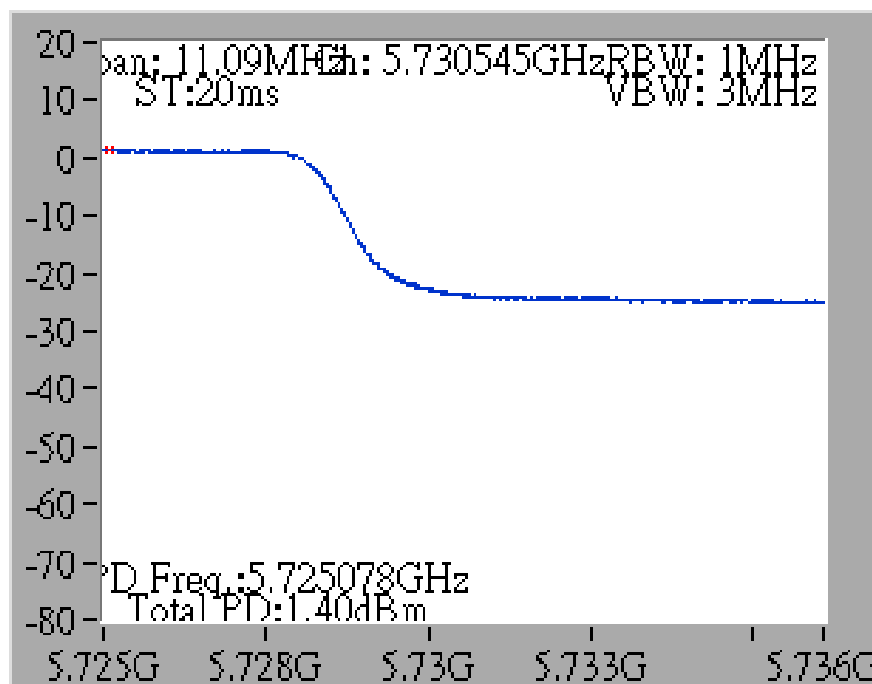
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)



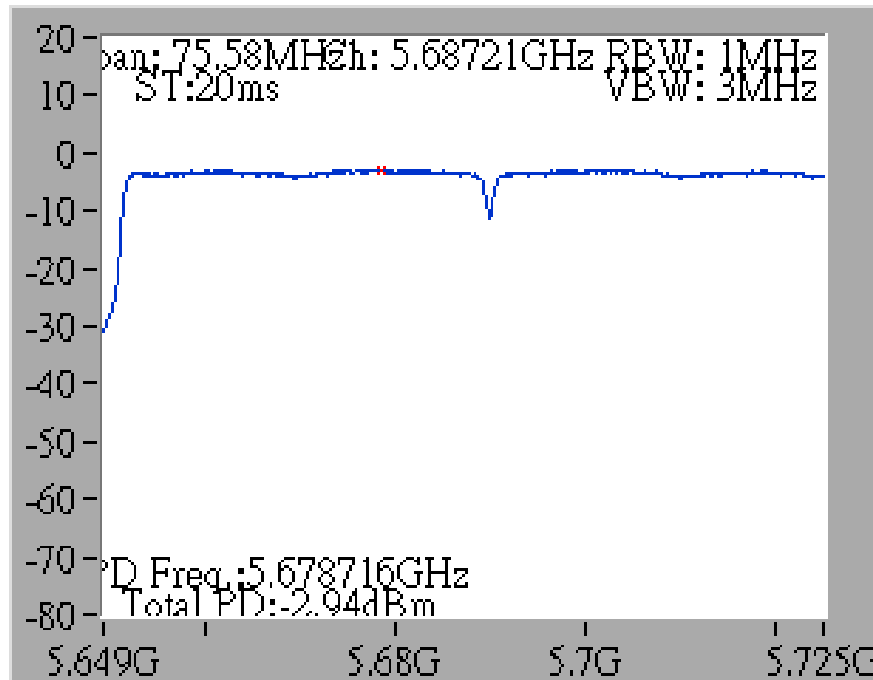
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



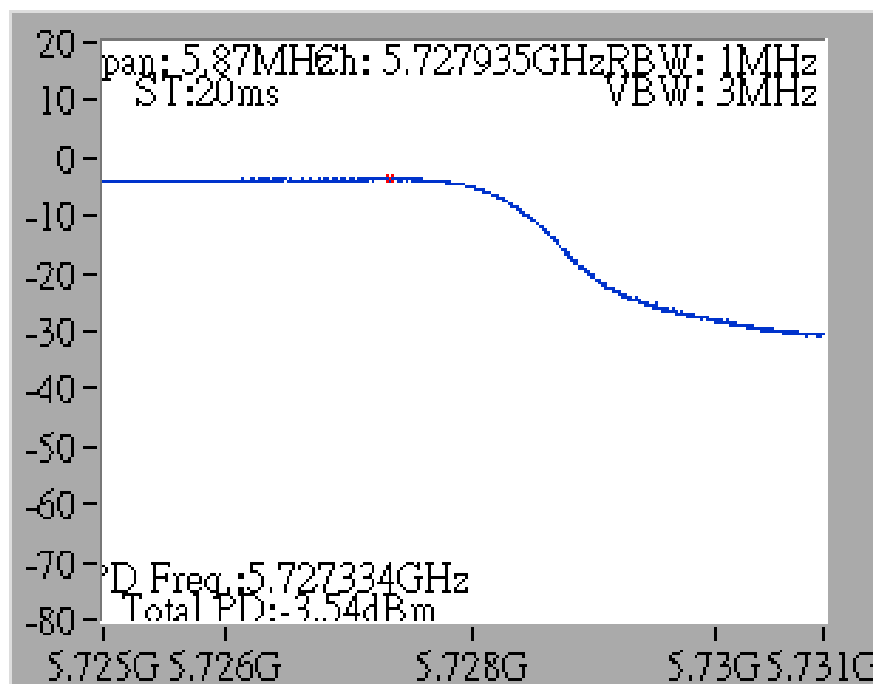
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)

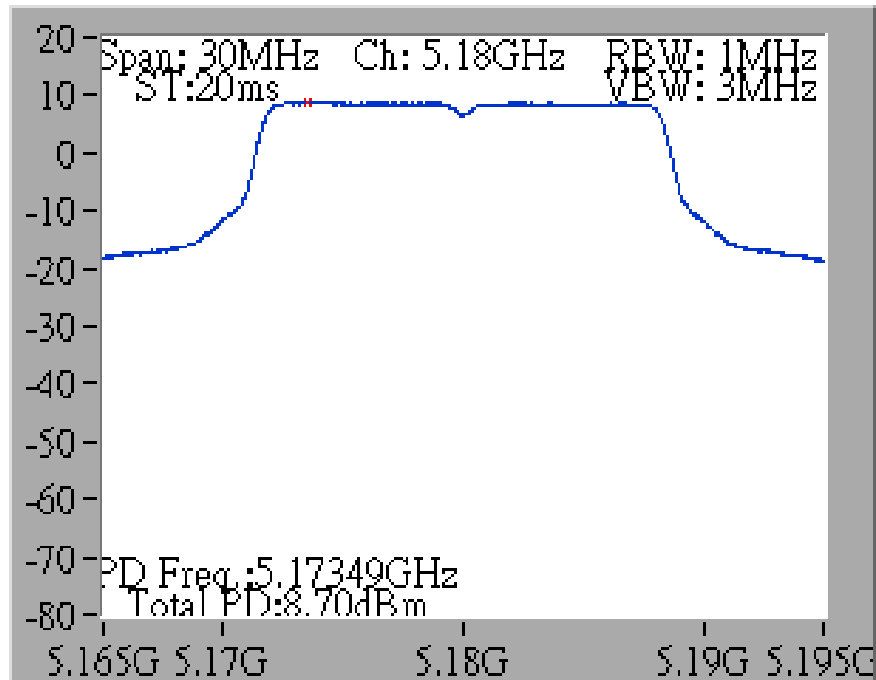


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)

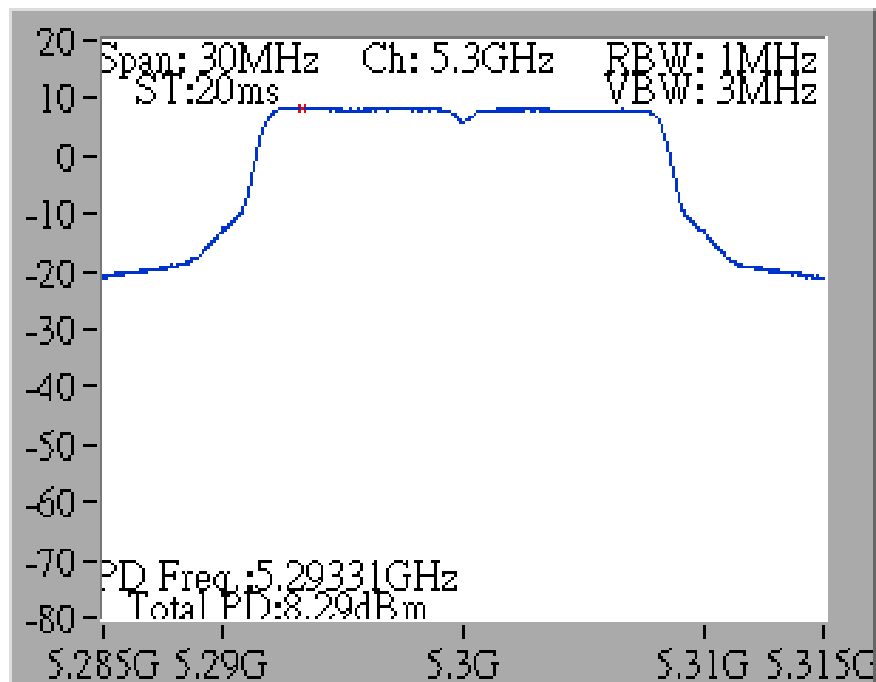


Chain 1: 5.9dBi, Chain 2: 5.4dBi / 2TX

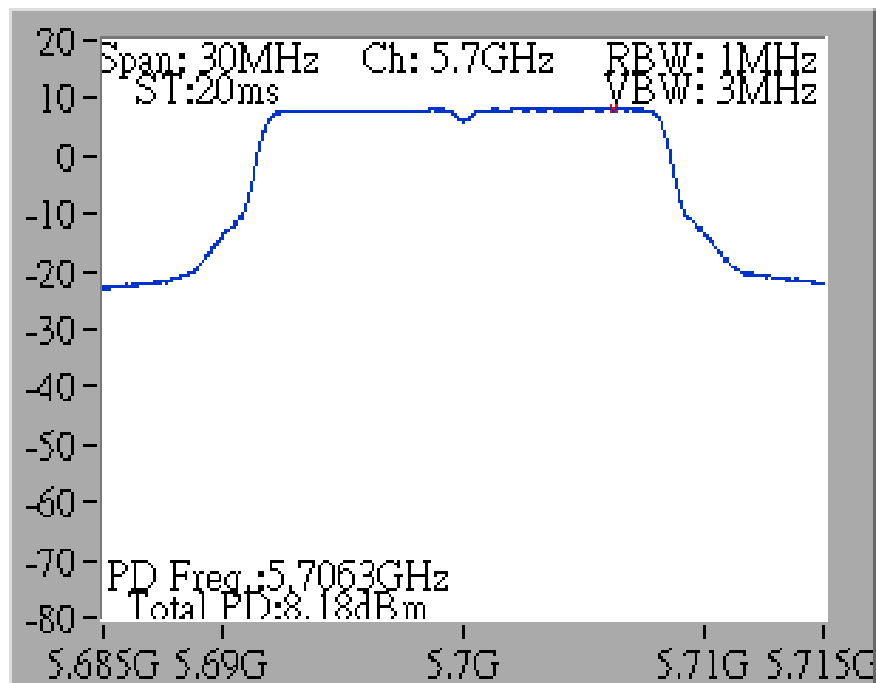
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5180 MHz



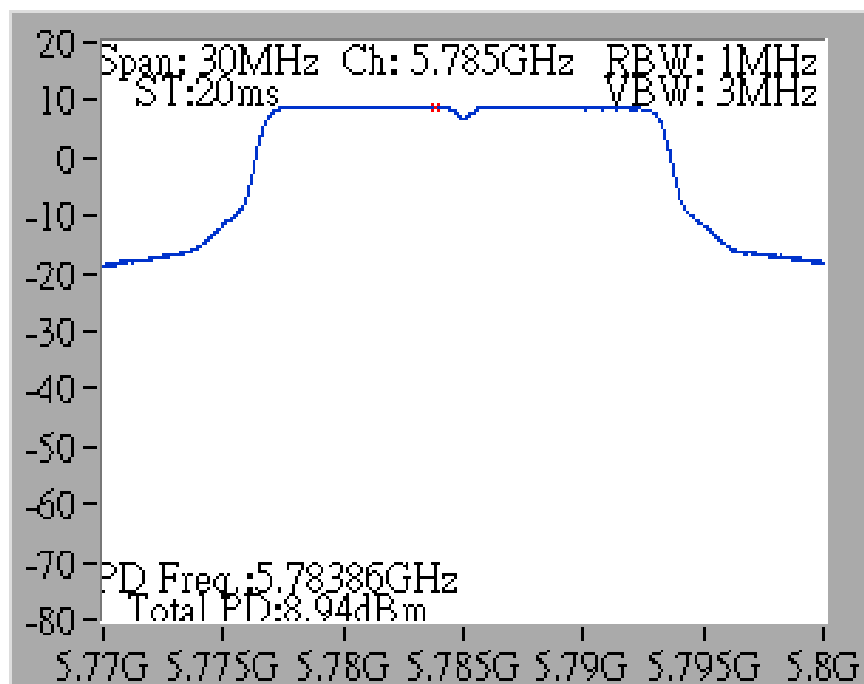
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5300 MHz



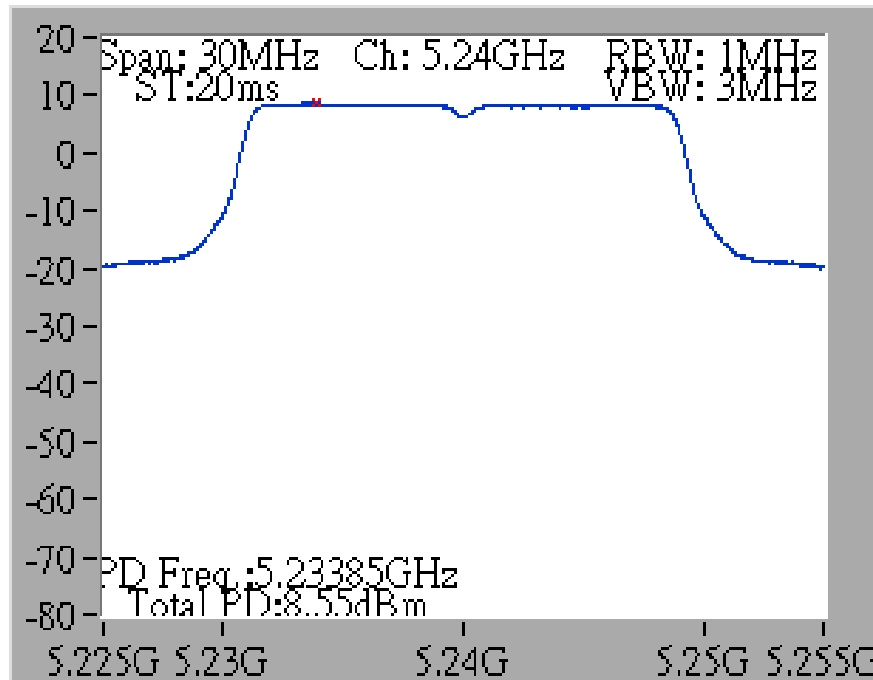
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5700 MHz



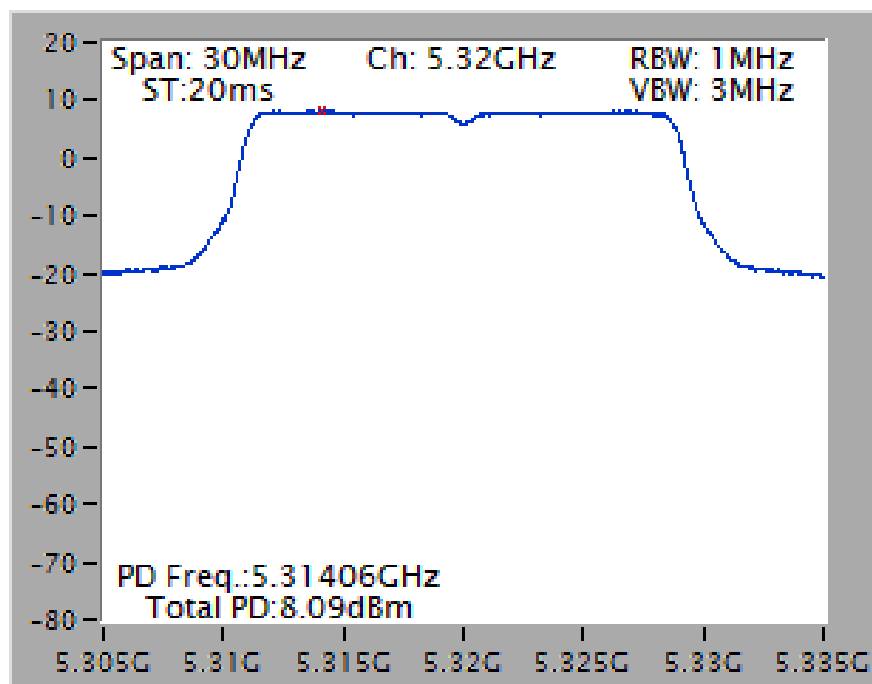
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5785 MHz



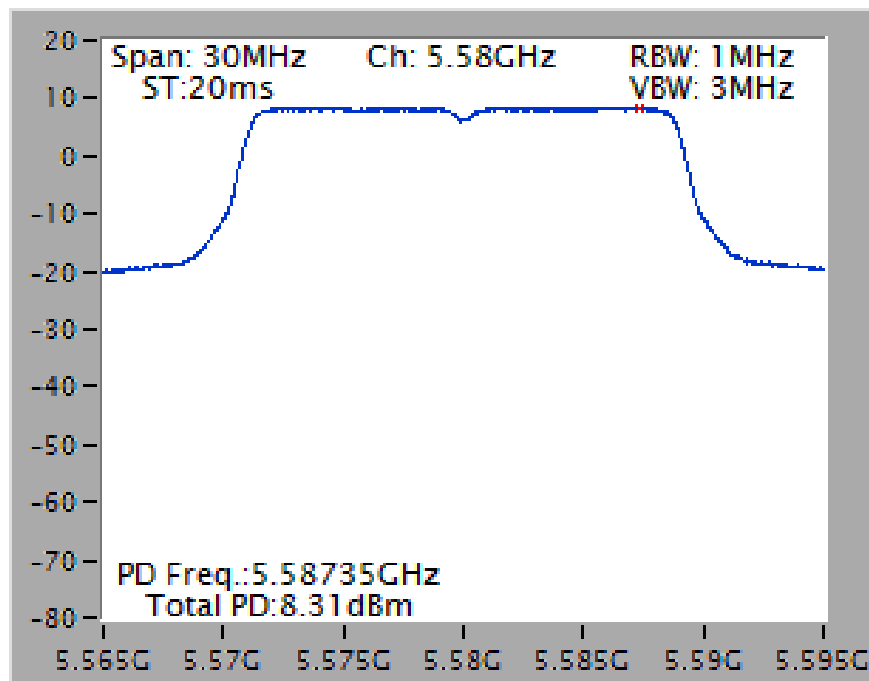
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5240 MHz



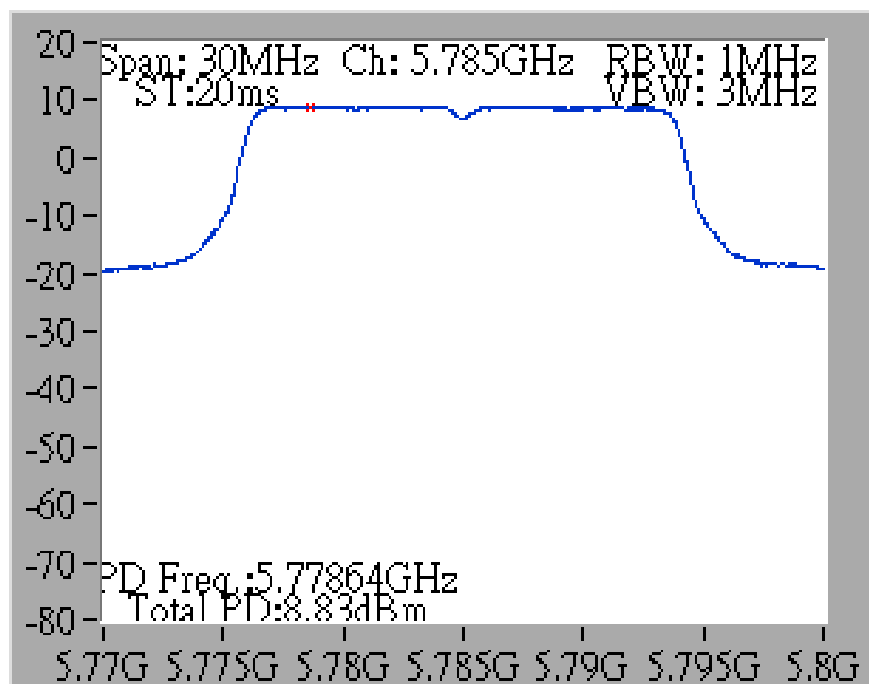
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5320 MHz



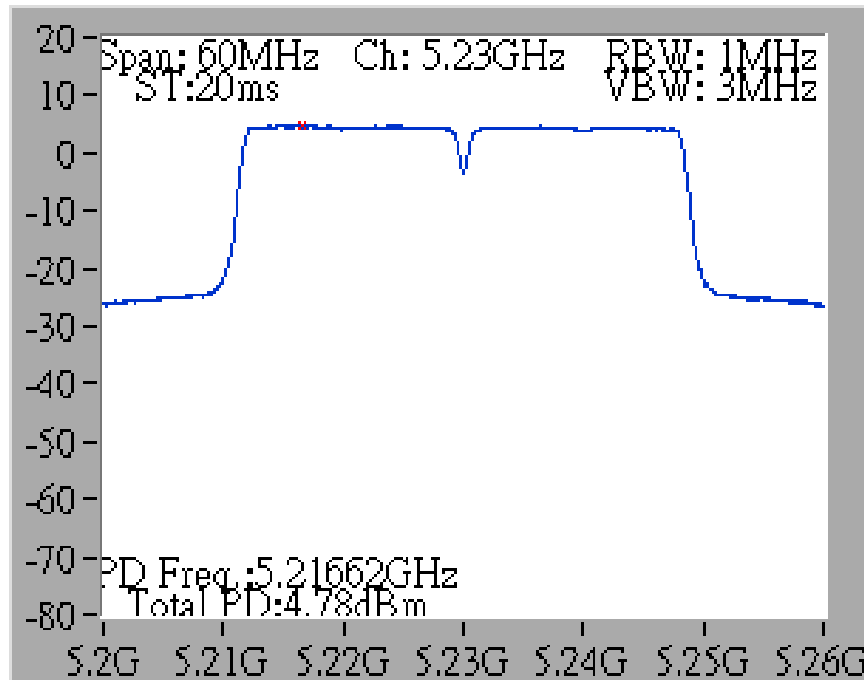
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz



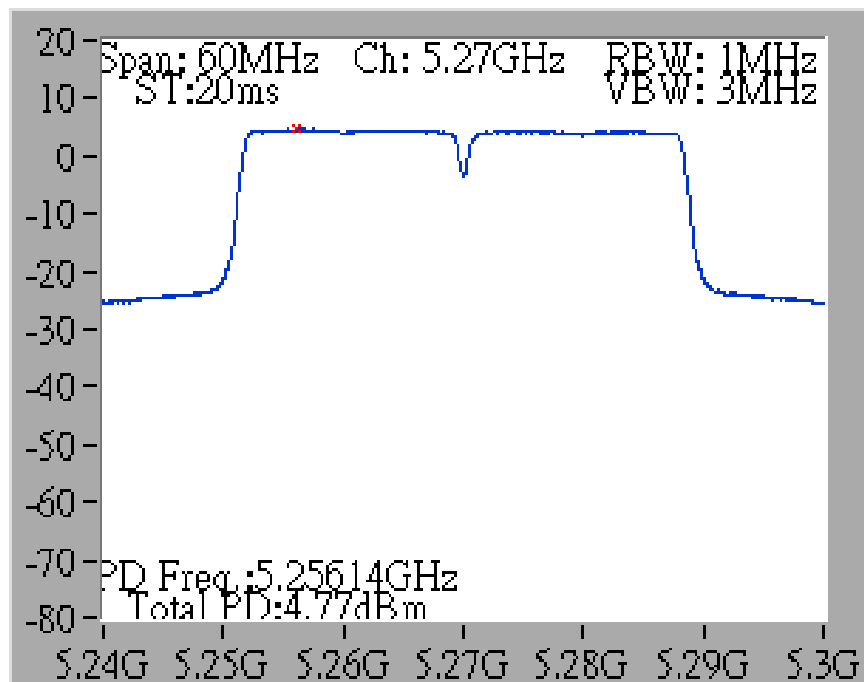
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



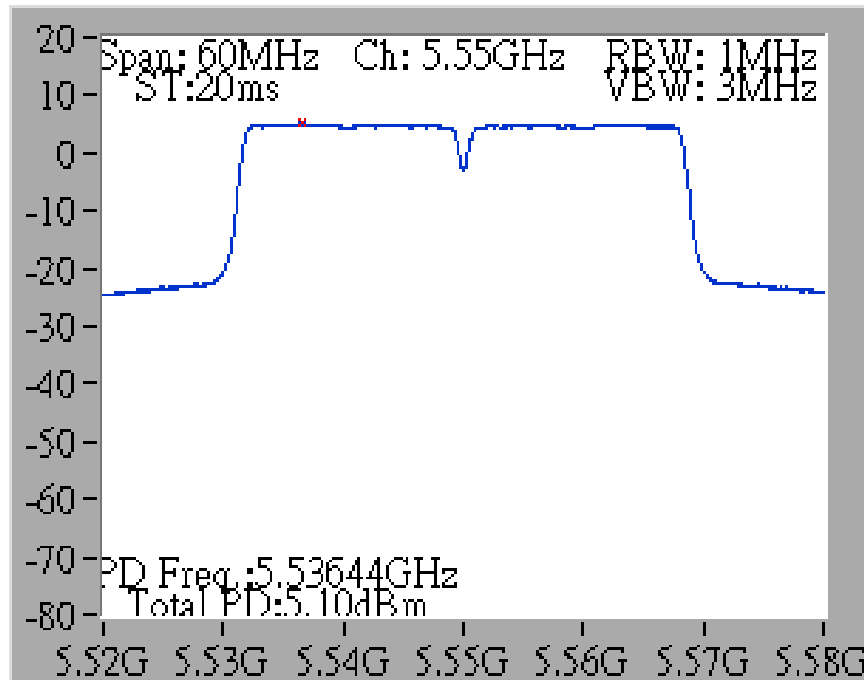
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



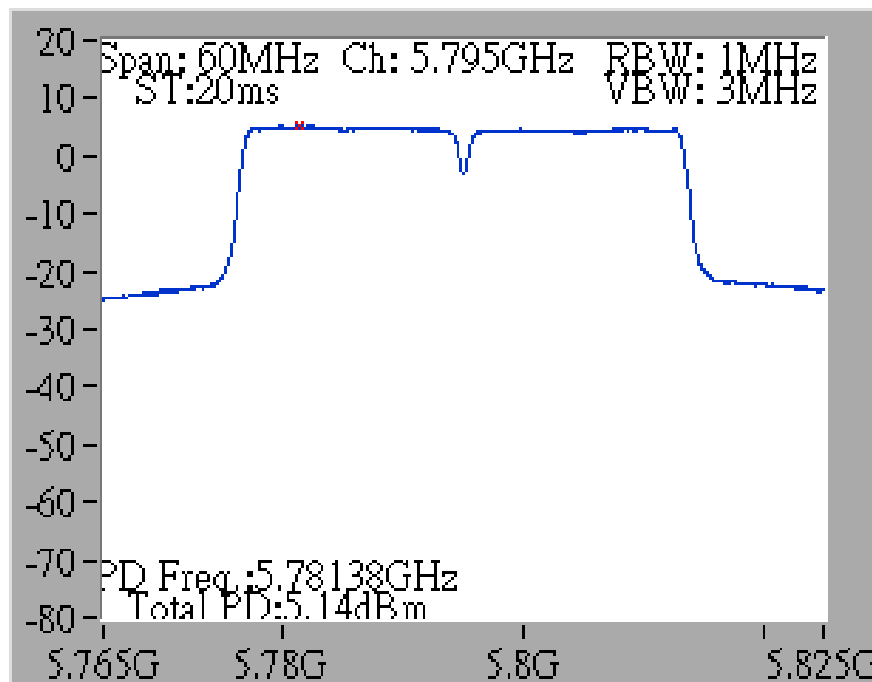
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



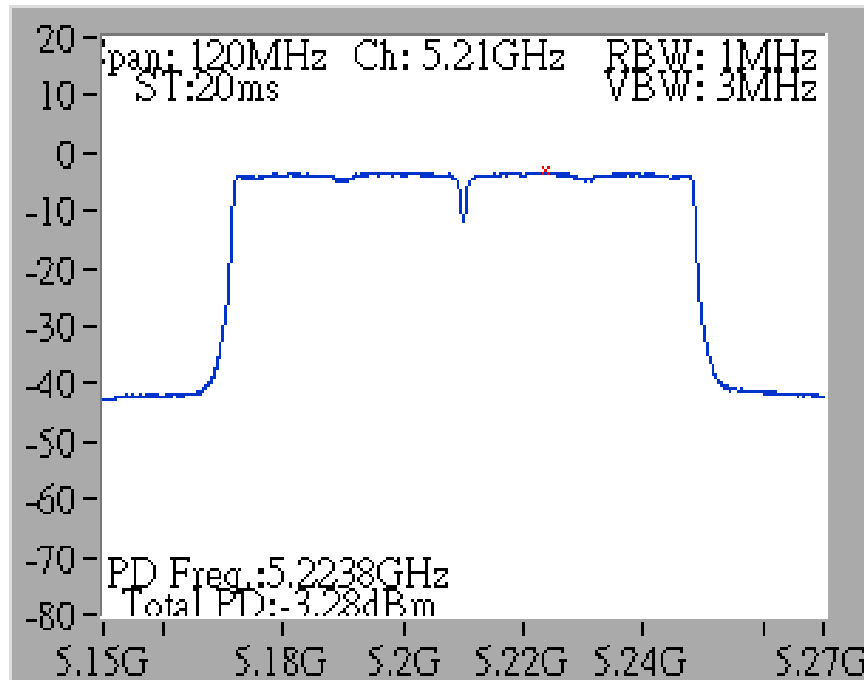
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



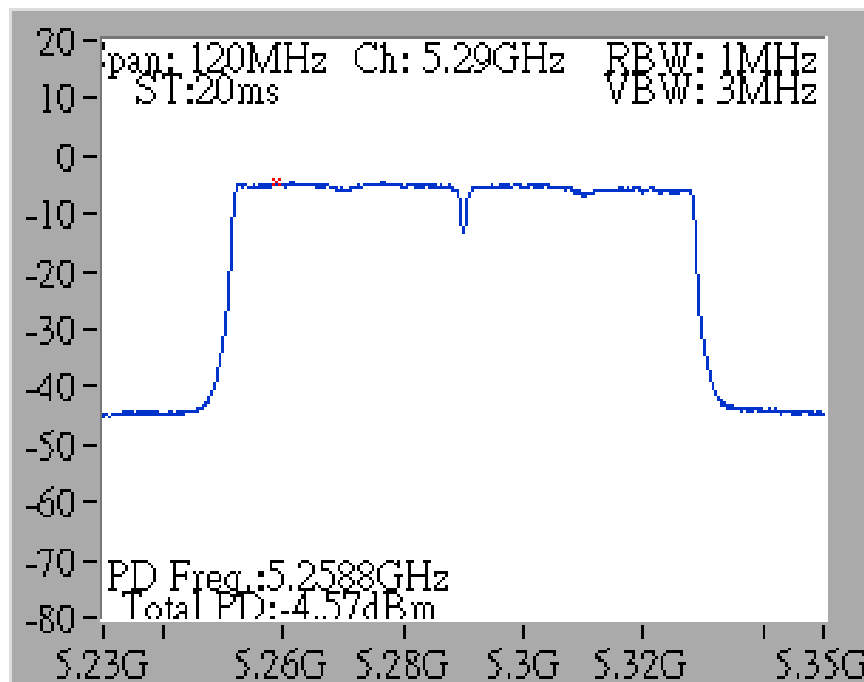
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



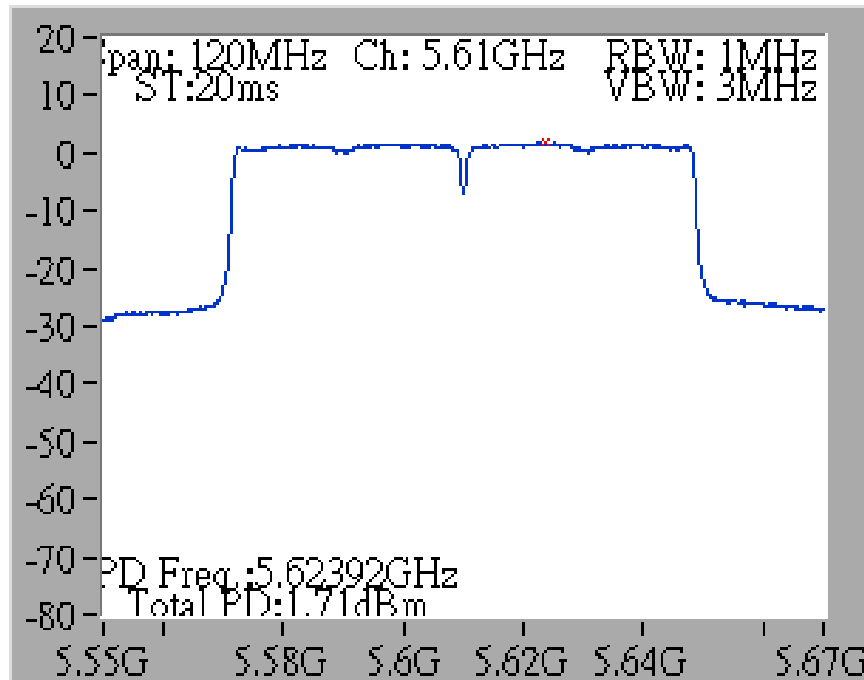
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz



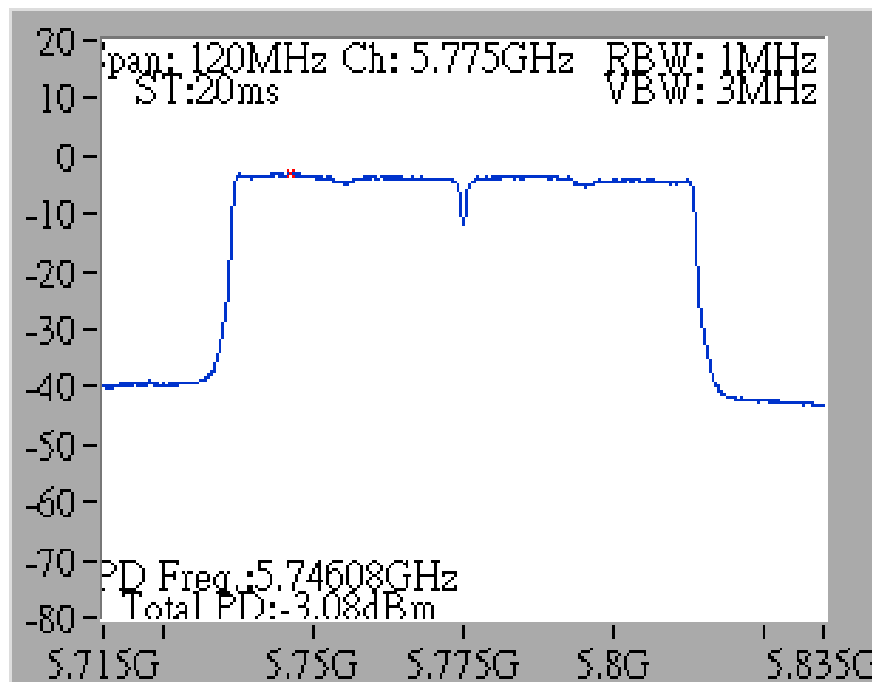
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

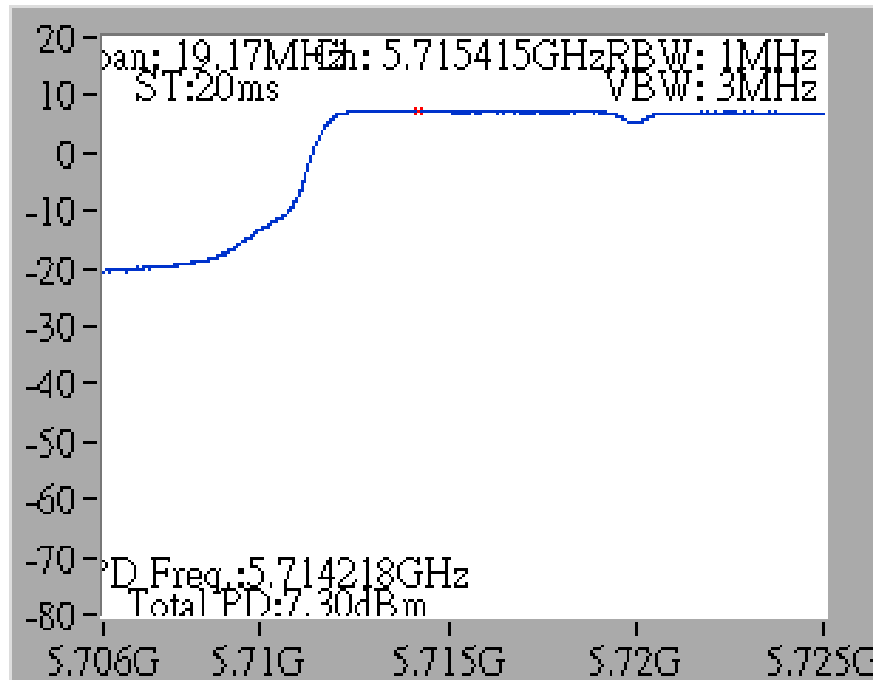


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

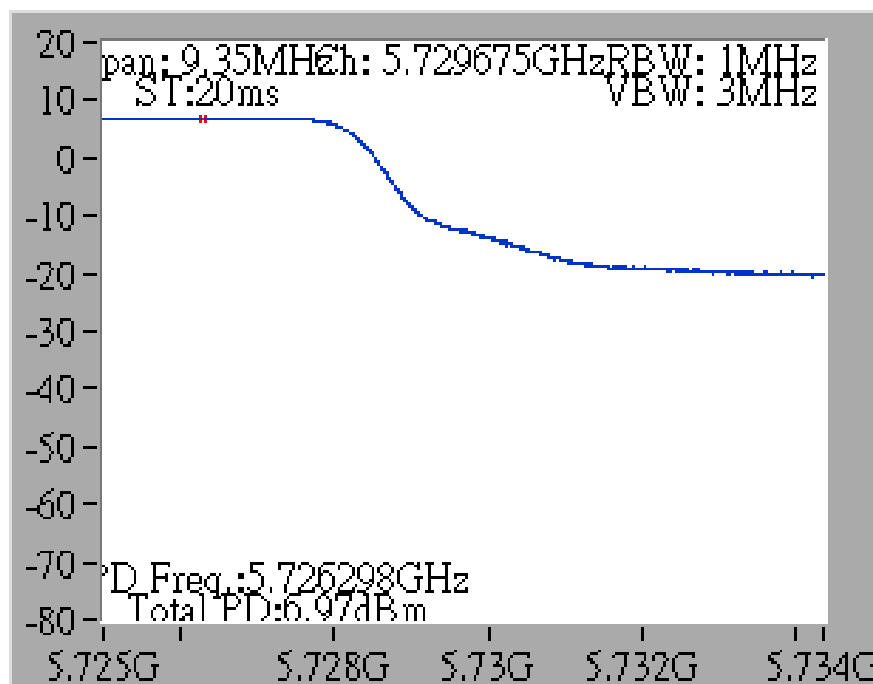


Straddle Channel

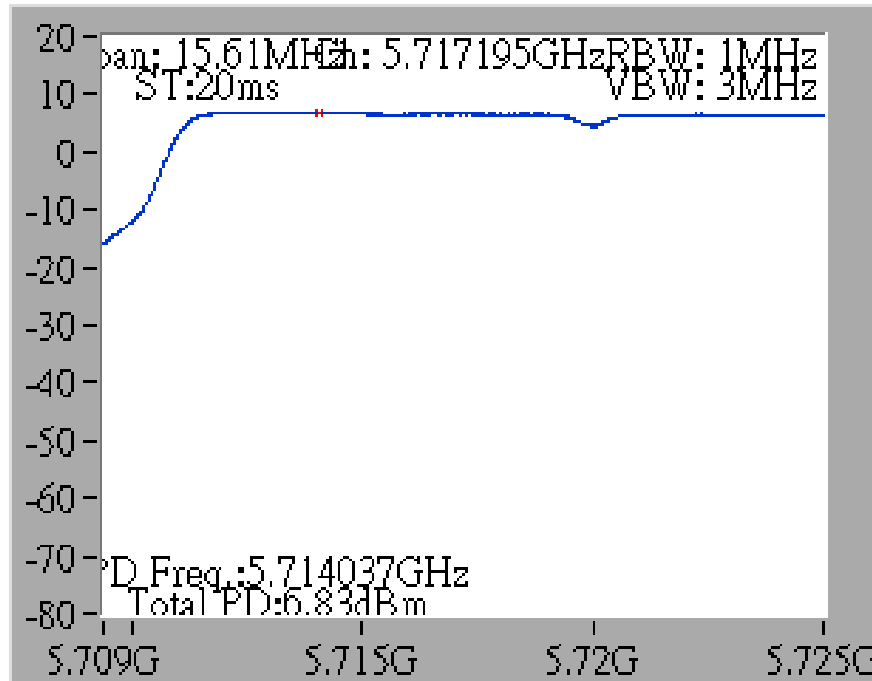
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5720 MHz (UNII 2C)



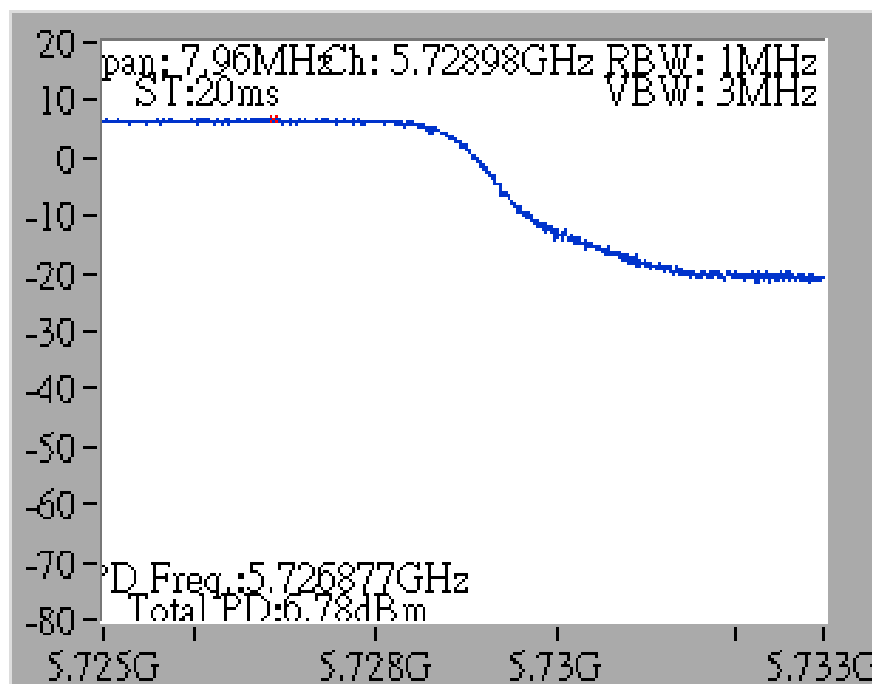
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5720 MHz (UNII 3)



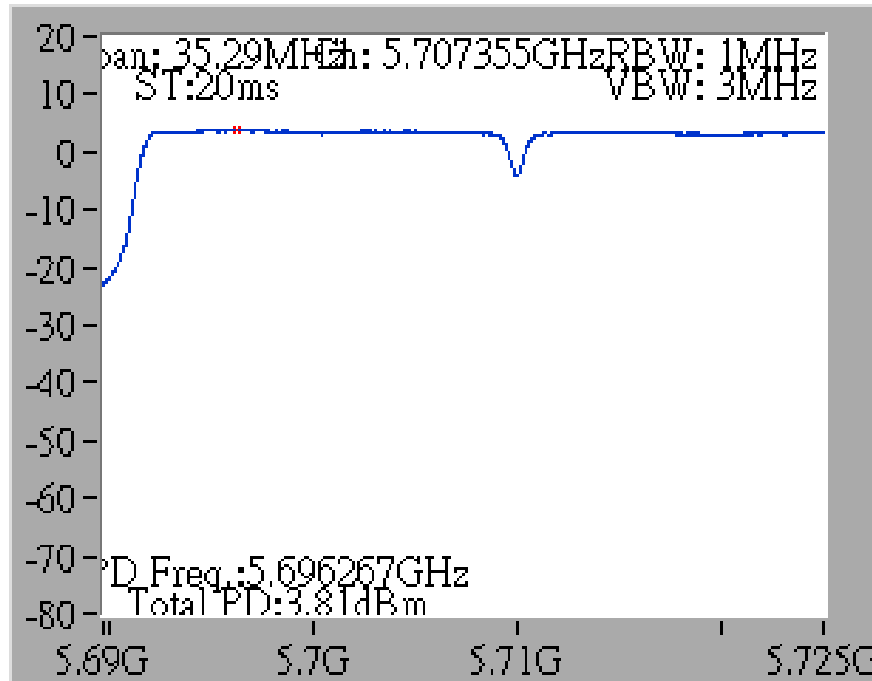
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz
(UNII 2C)



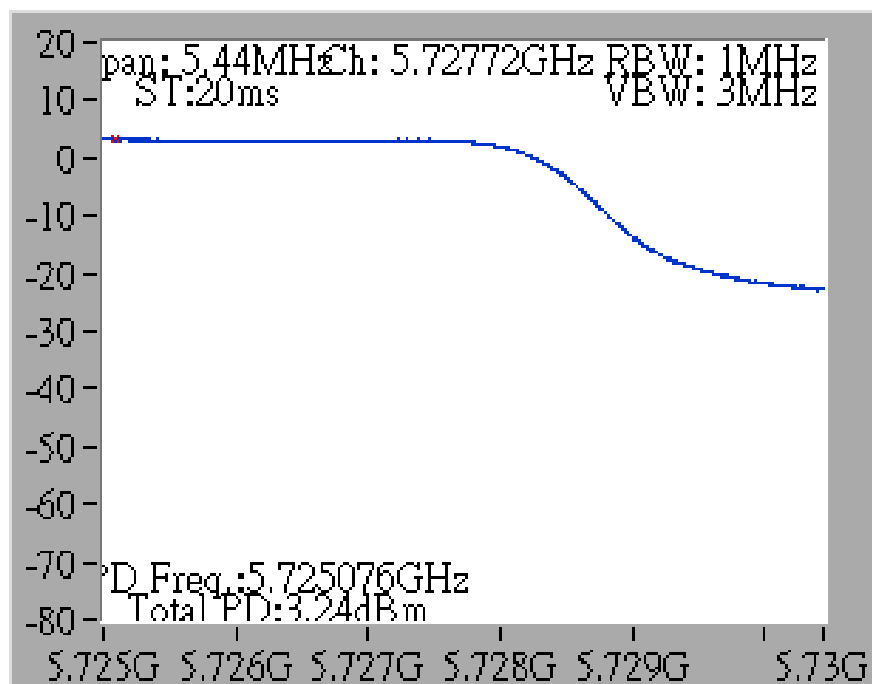
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz
(UNII 3)



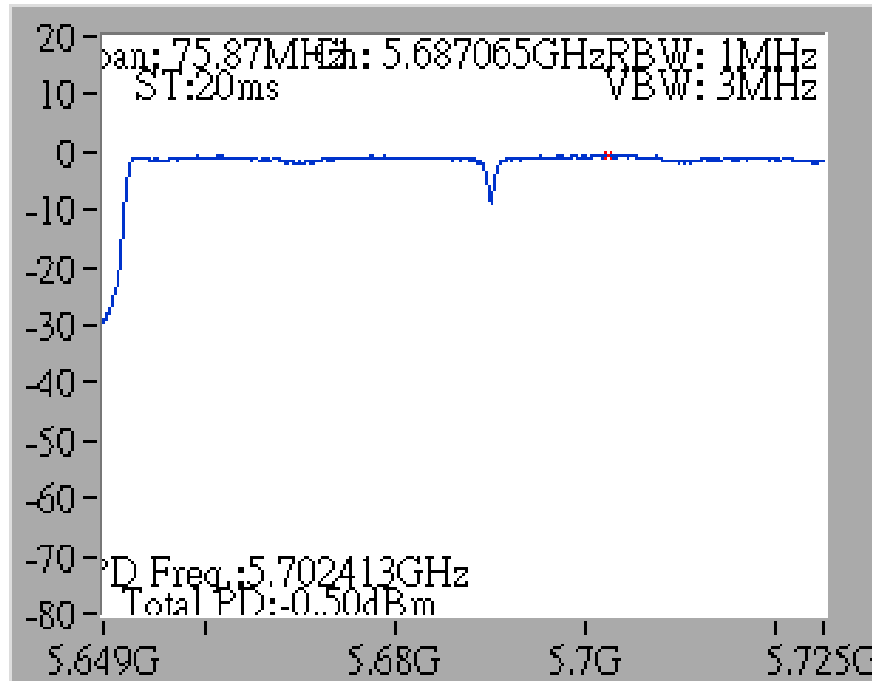
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz
(UNII 2C)



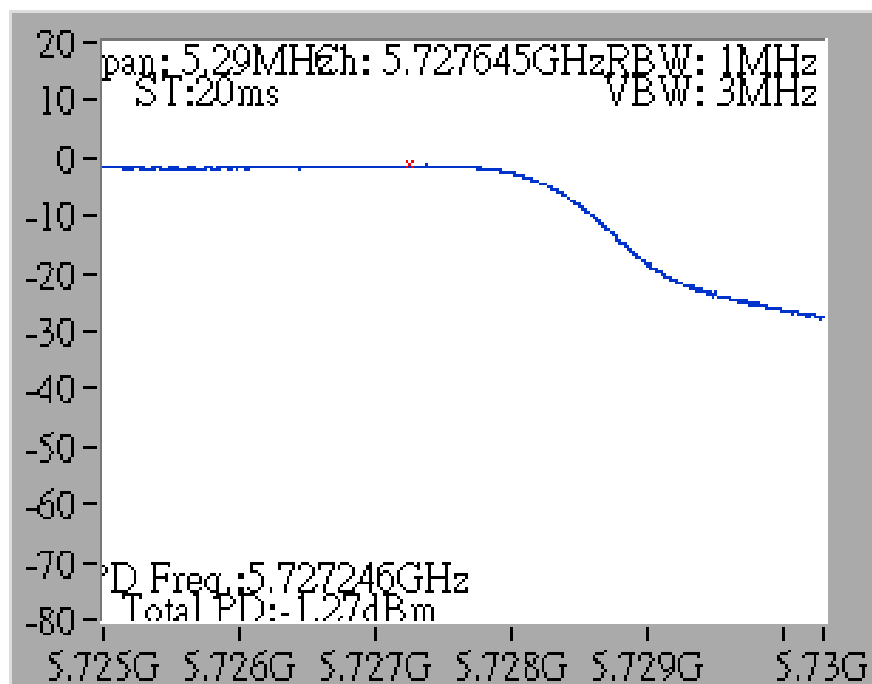
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz
(UNII 2C)

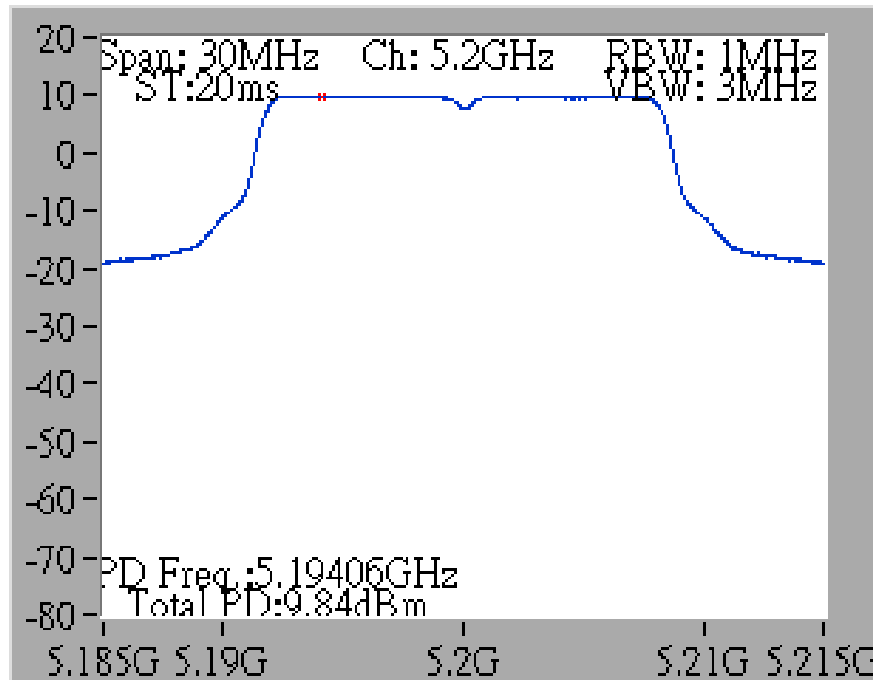


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz
(UNII 3)

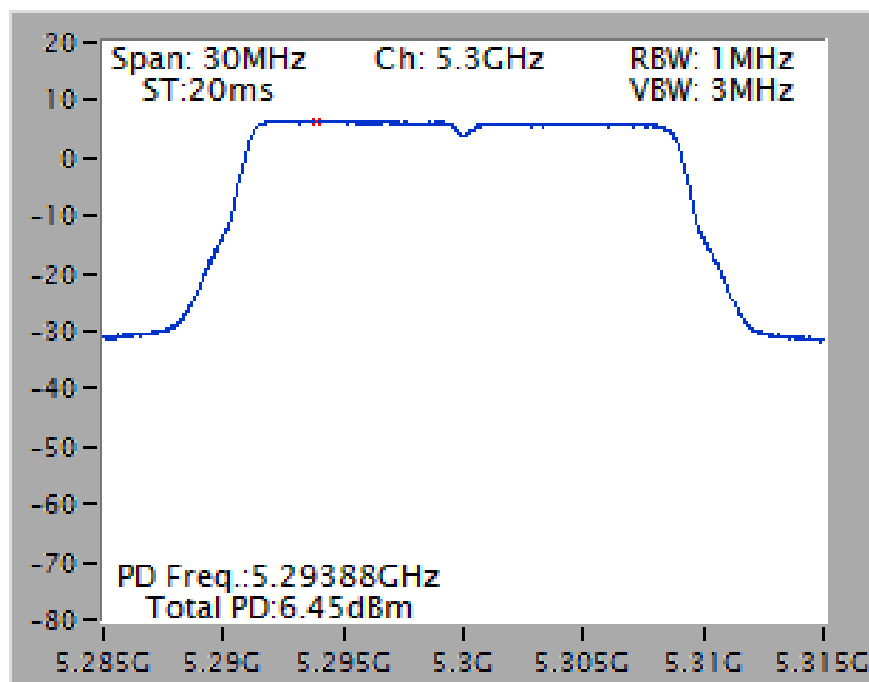


Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX

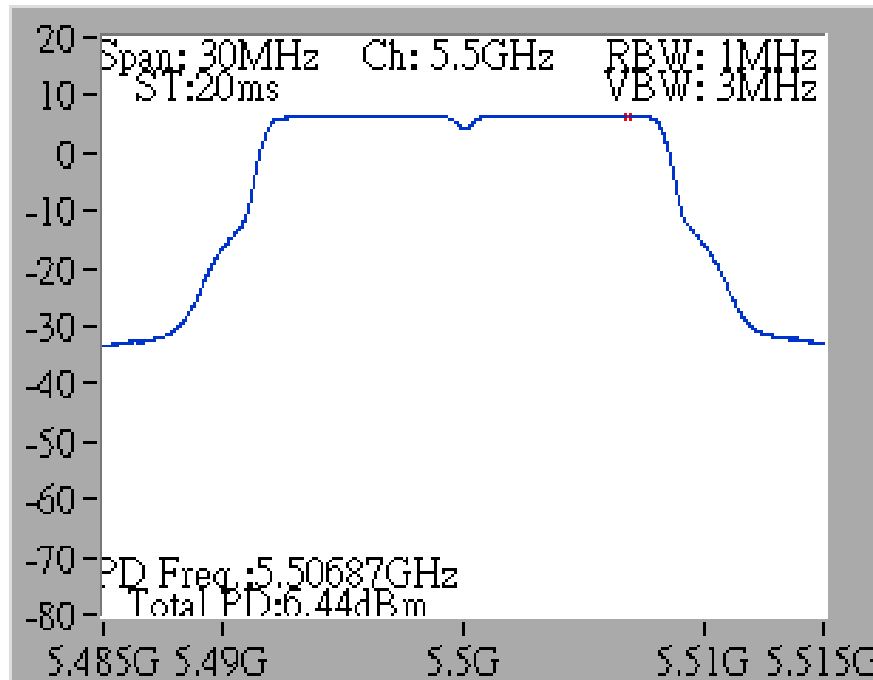
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5200 MHz



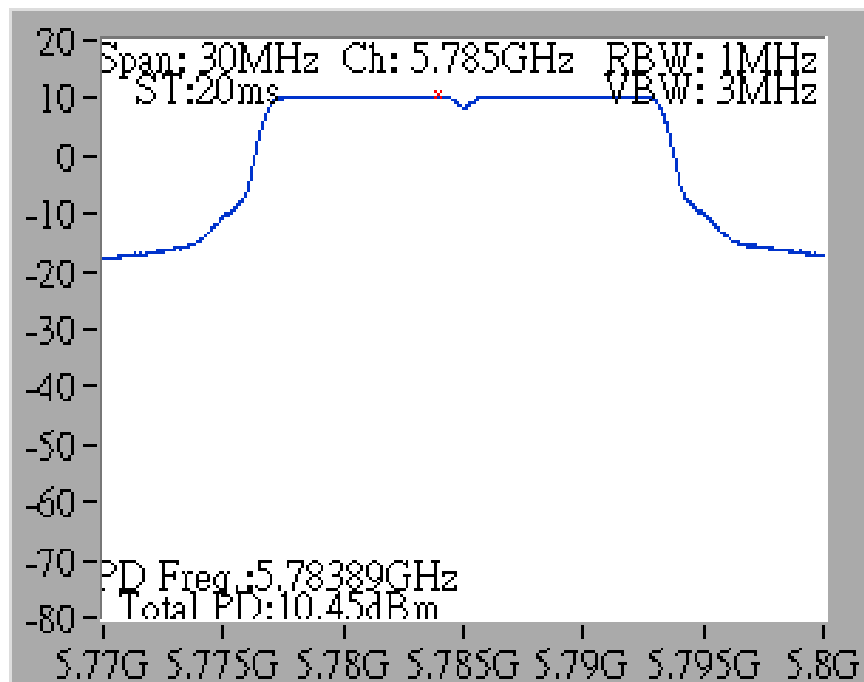
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5300 MHz



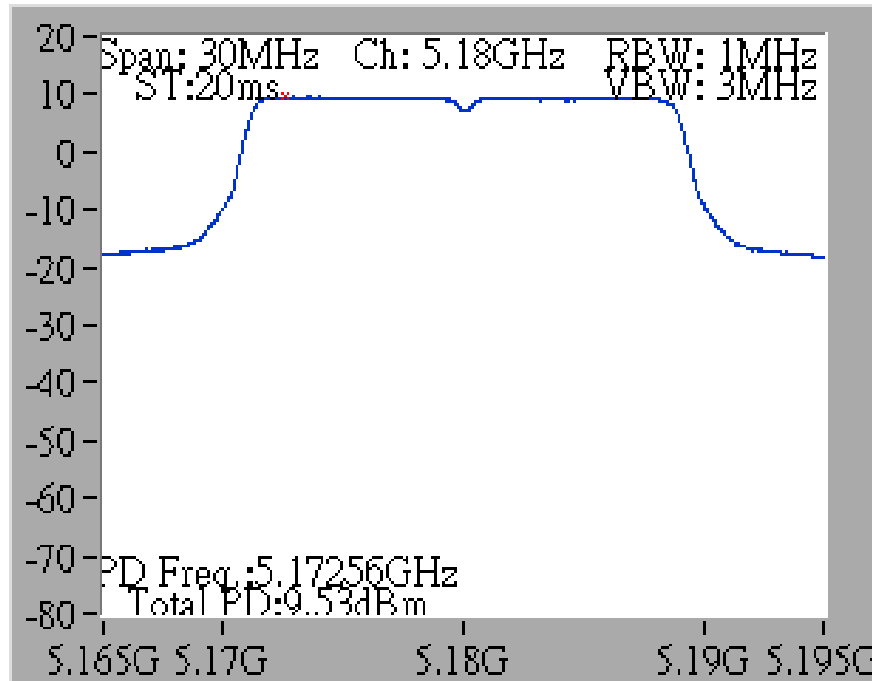
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5500 MHz



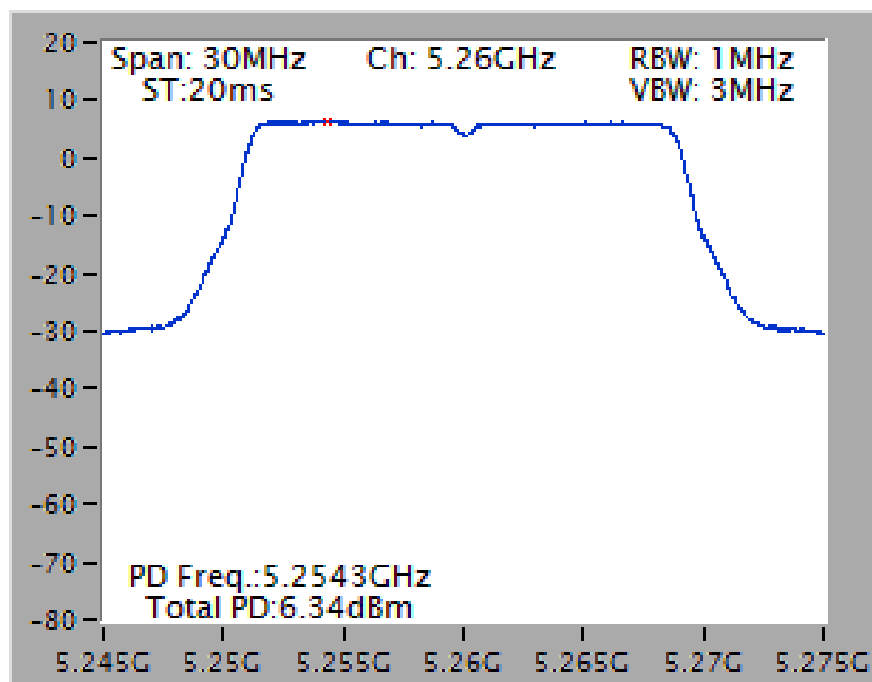
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5785 MHz



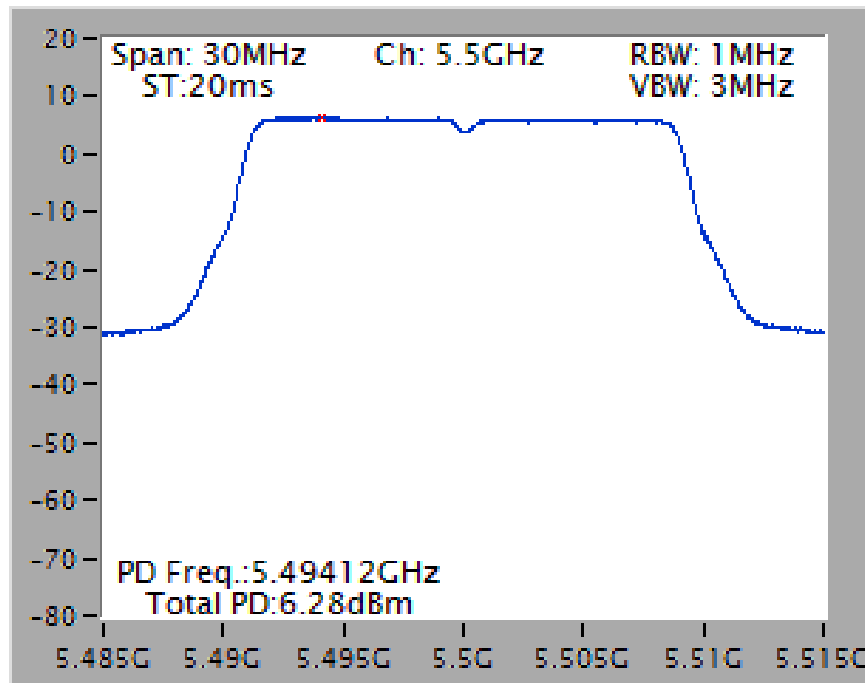
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5180 MHz



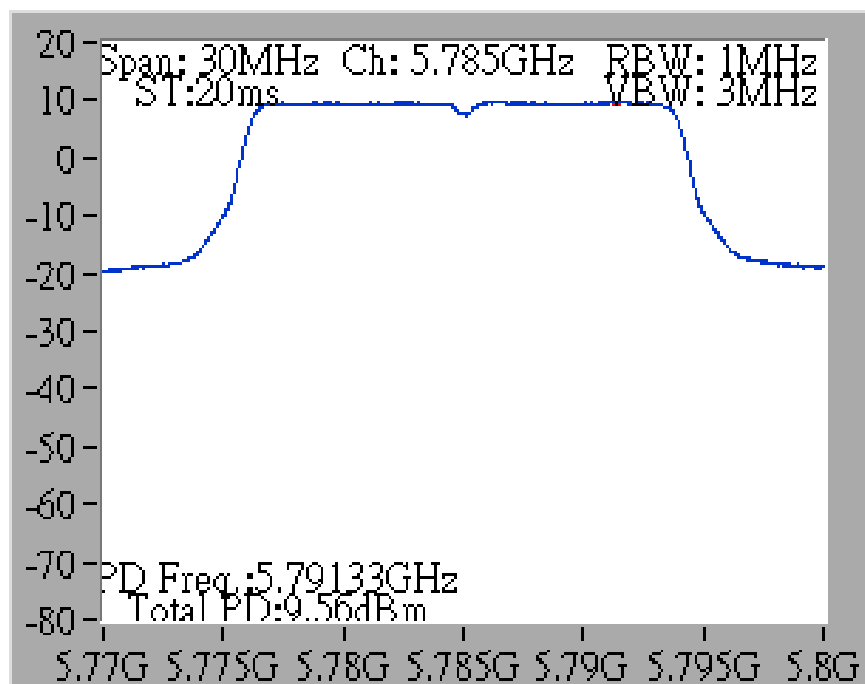
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5260 MHz



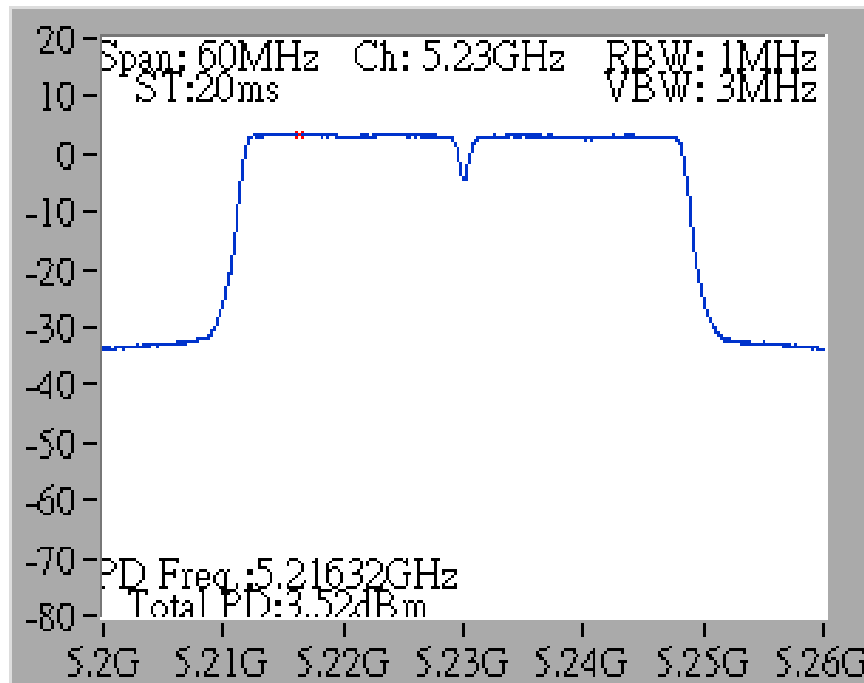
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5500 MHz



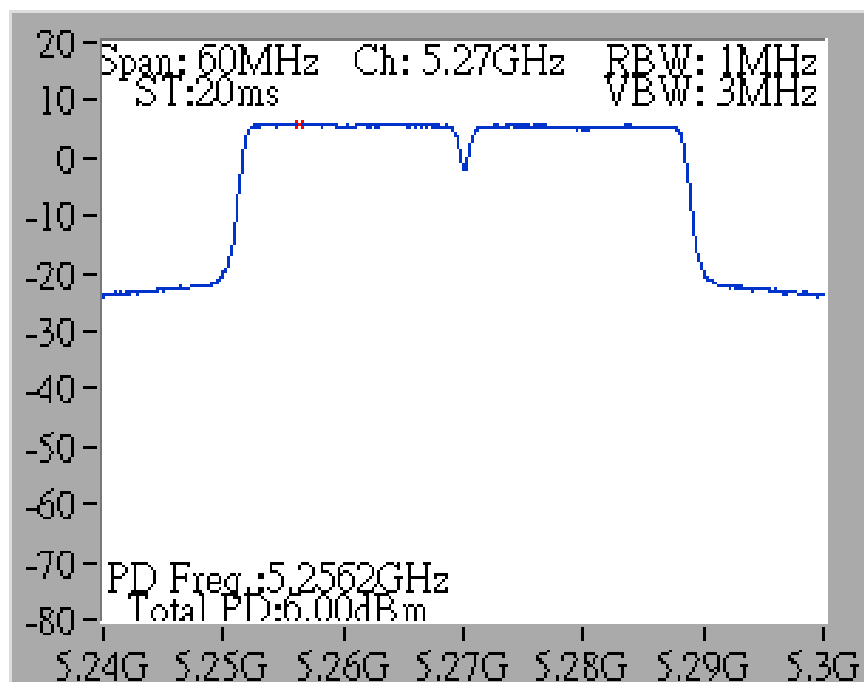
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



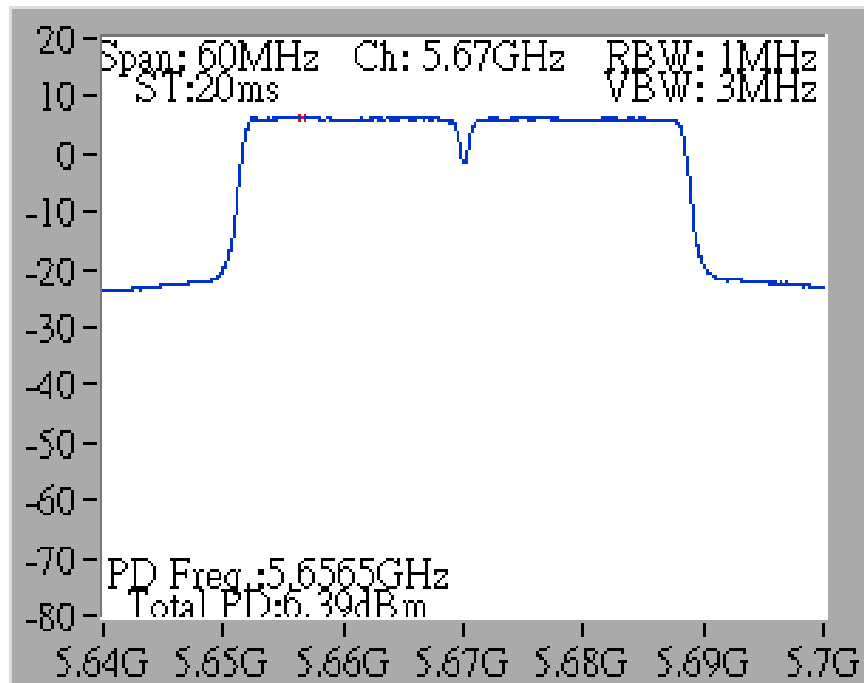
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5230 MHz



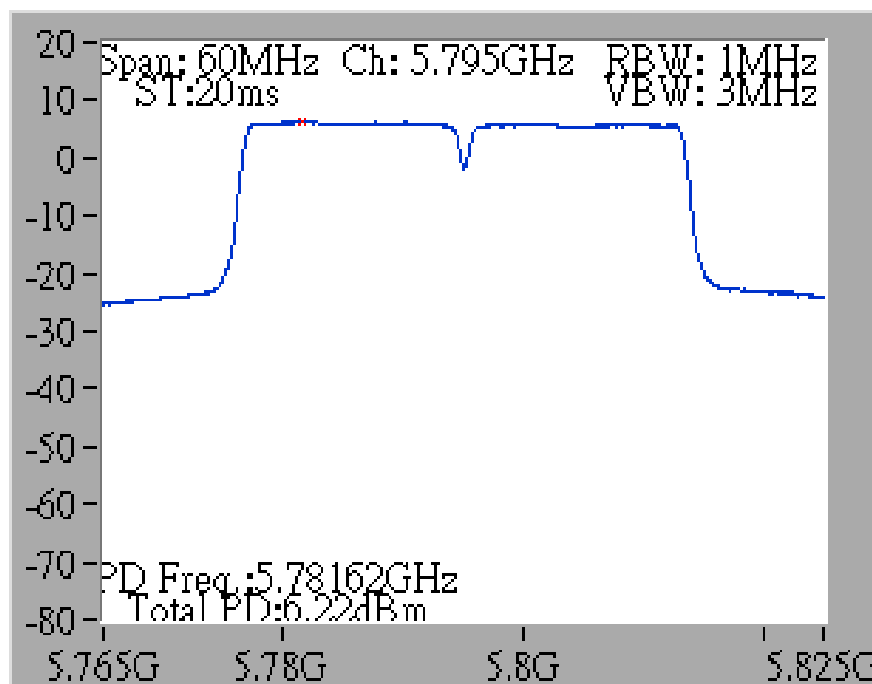
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5270 MHz



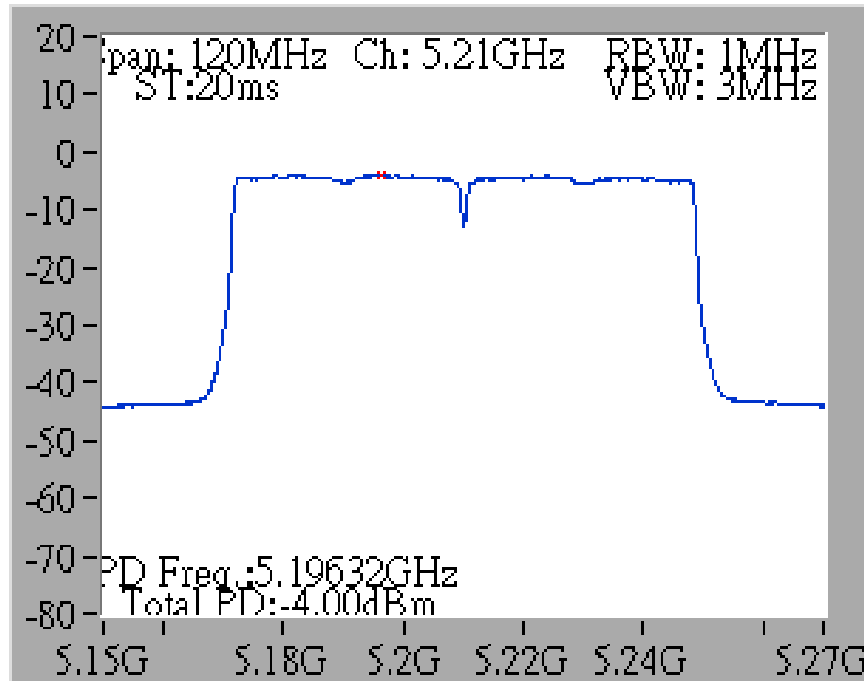
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5670 MHz



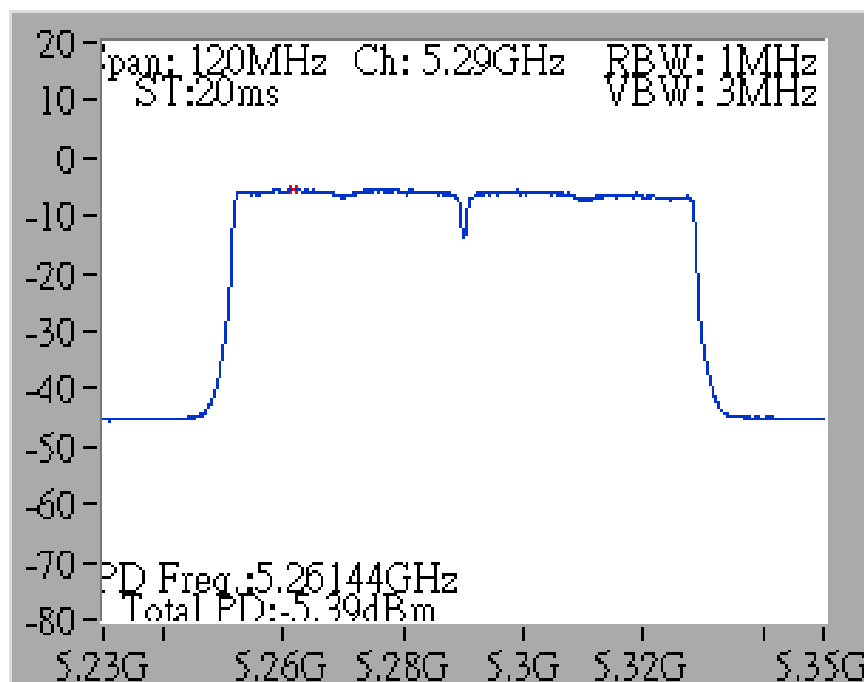
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



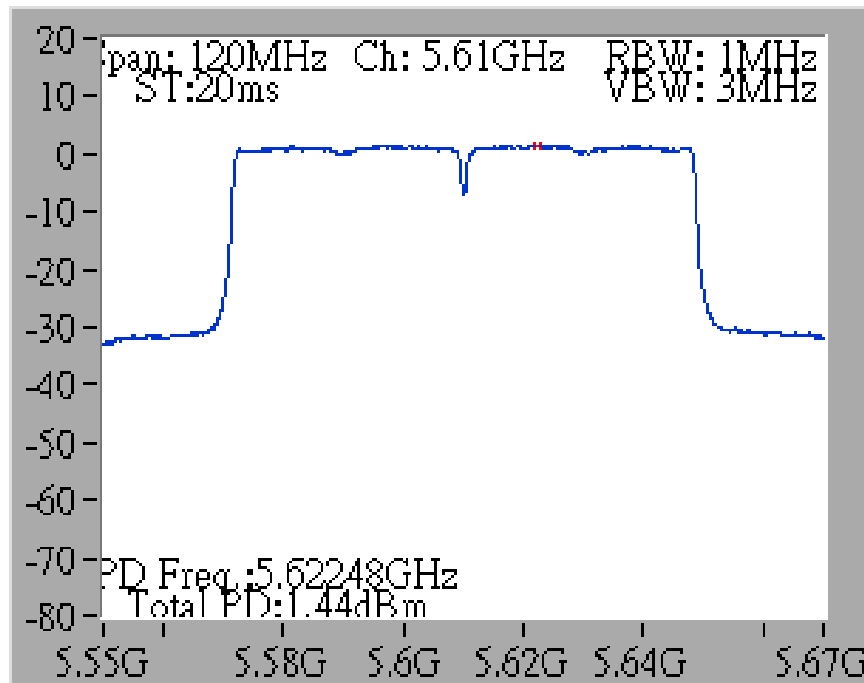
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz



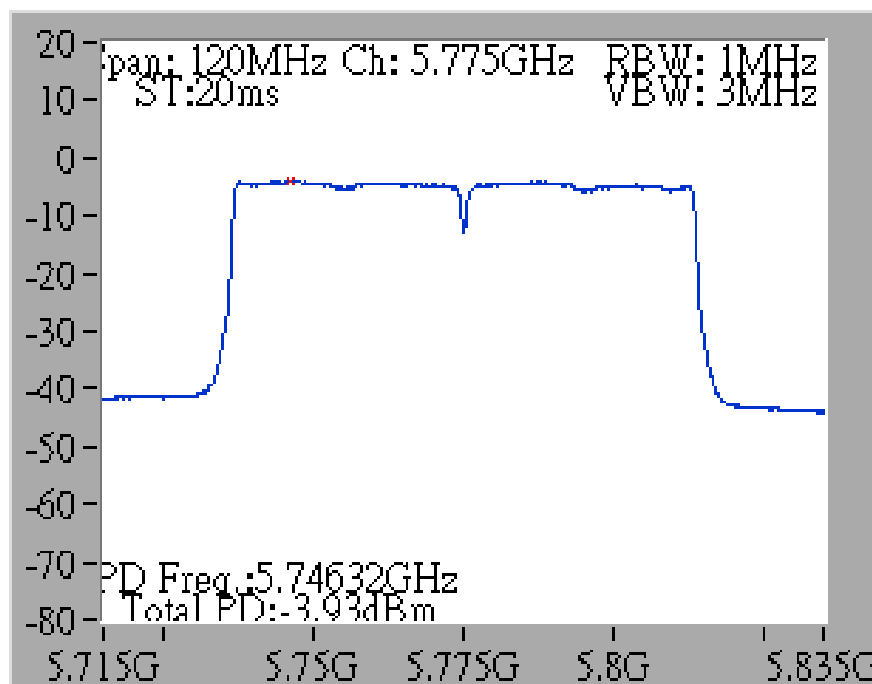
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5610 MHz

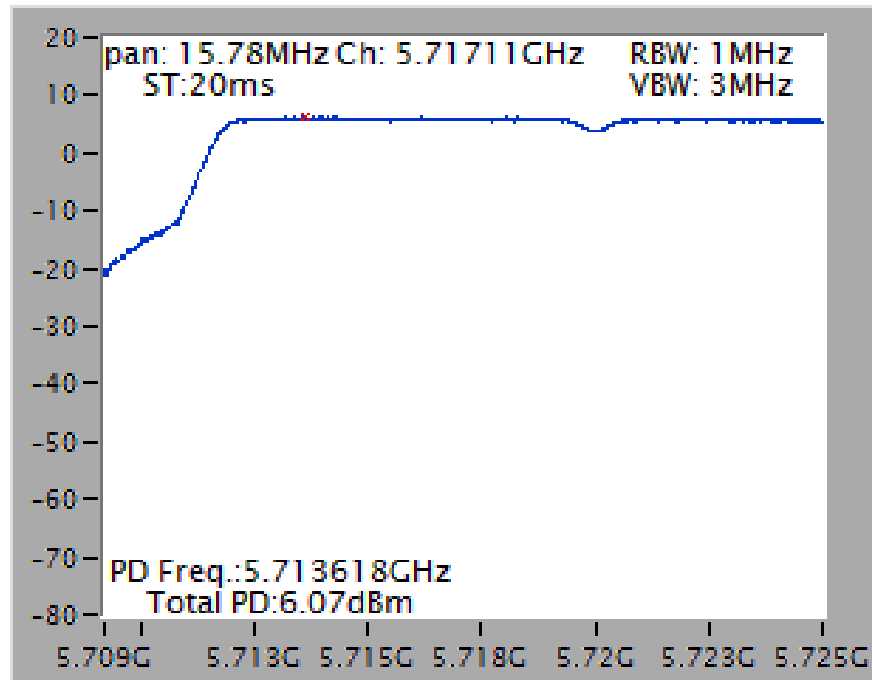


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz

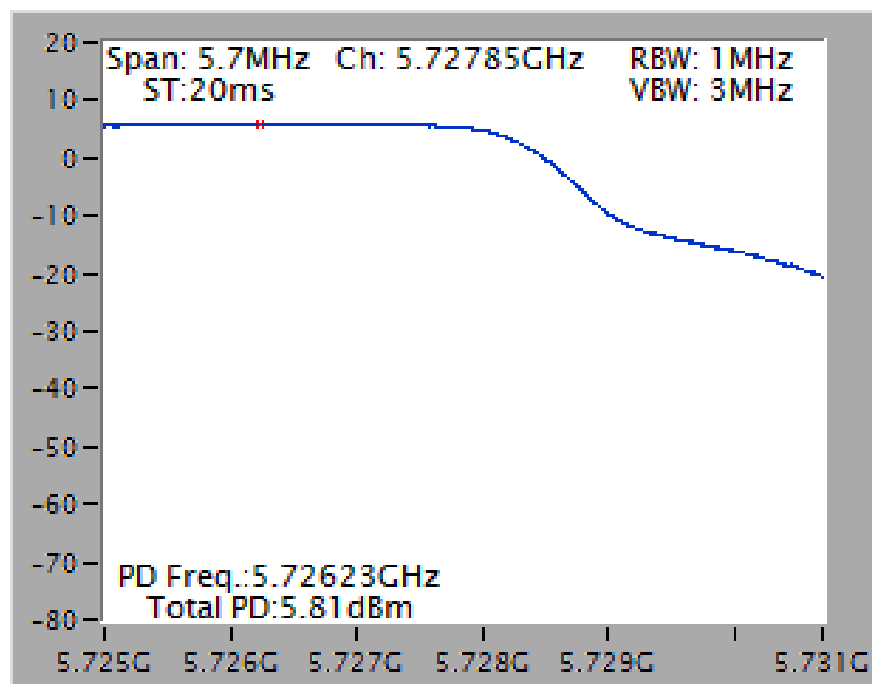


Straddle Channel

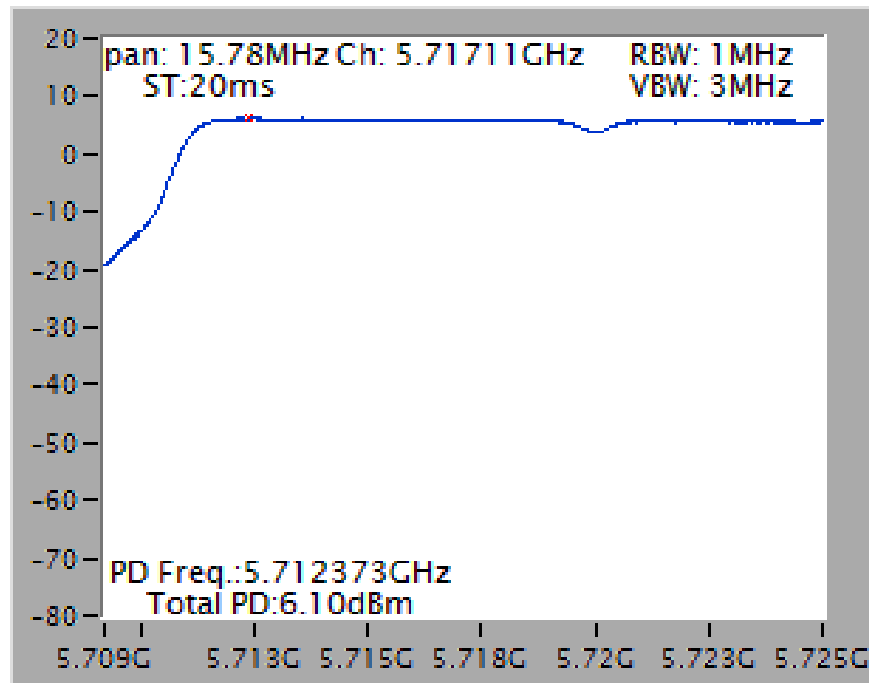
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



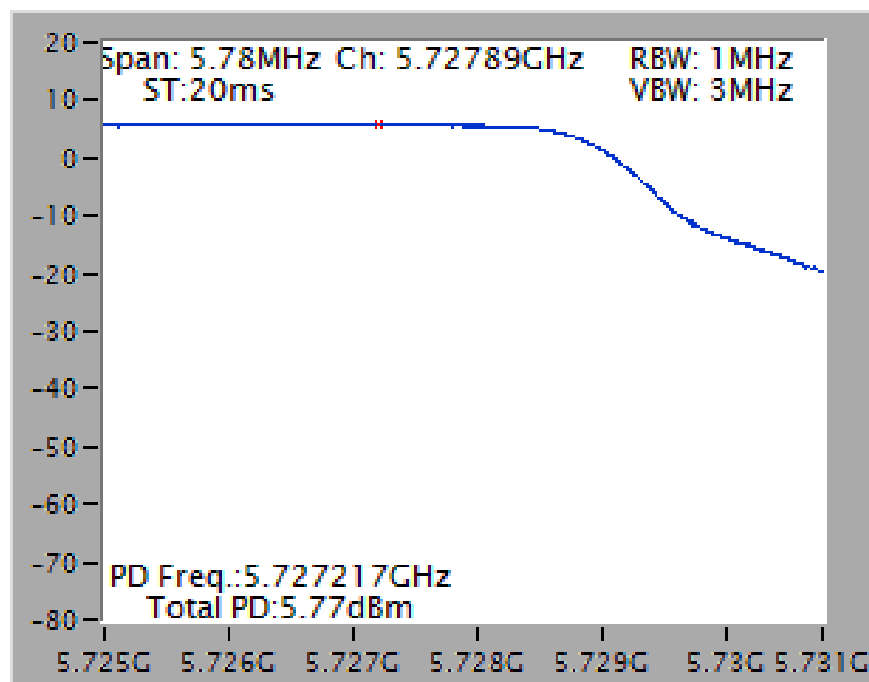
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



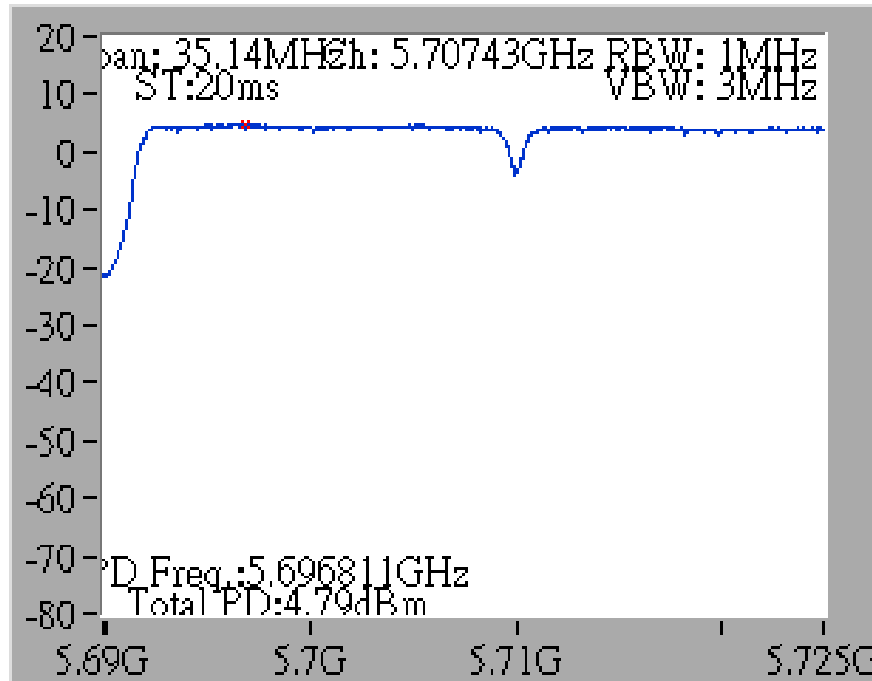
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5720 MHz (UNII 2C)



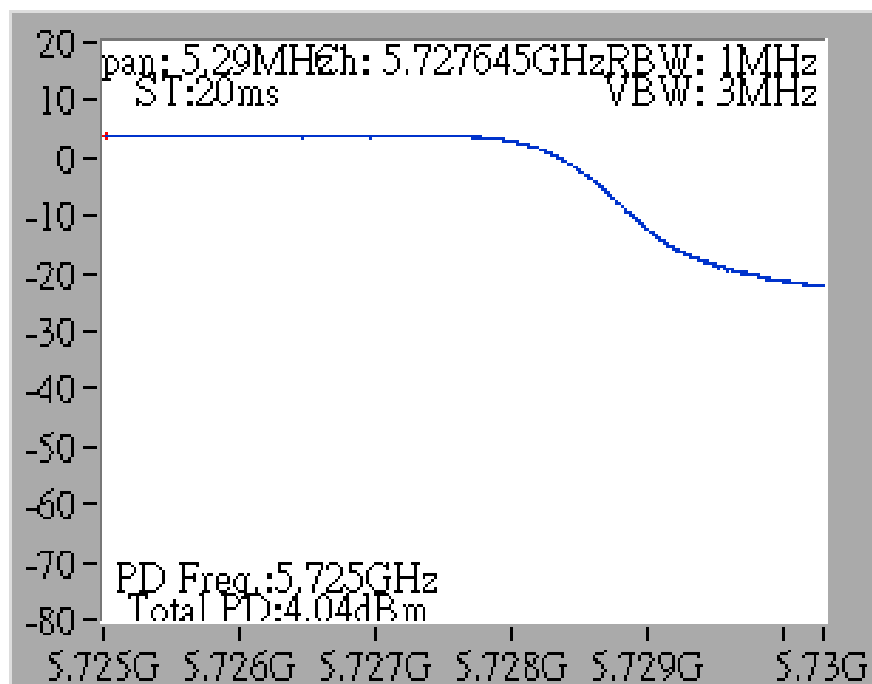
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5720 MHz (UNII 3)



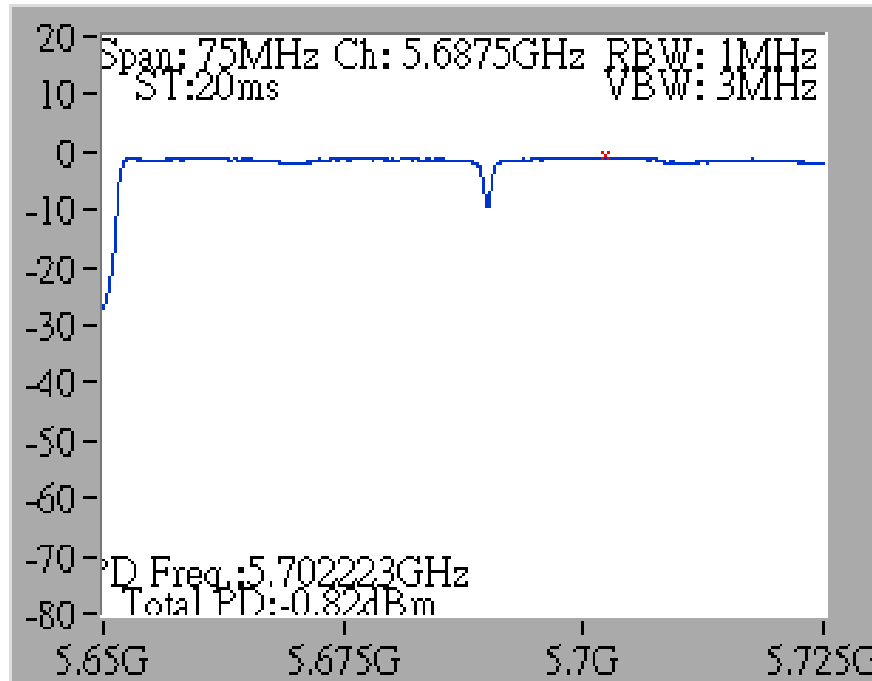
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5710 MHz (UNII 2C)



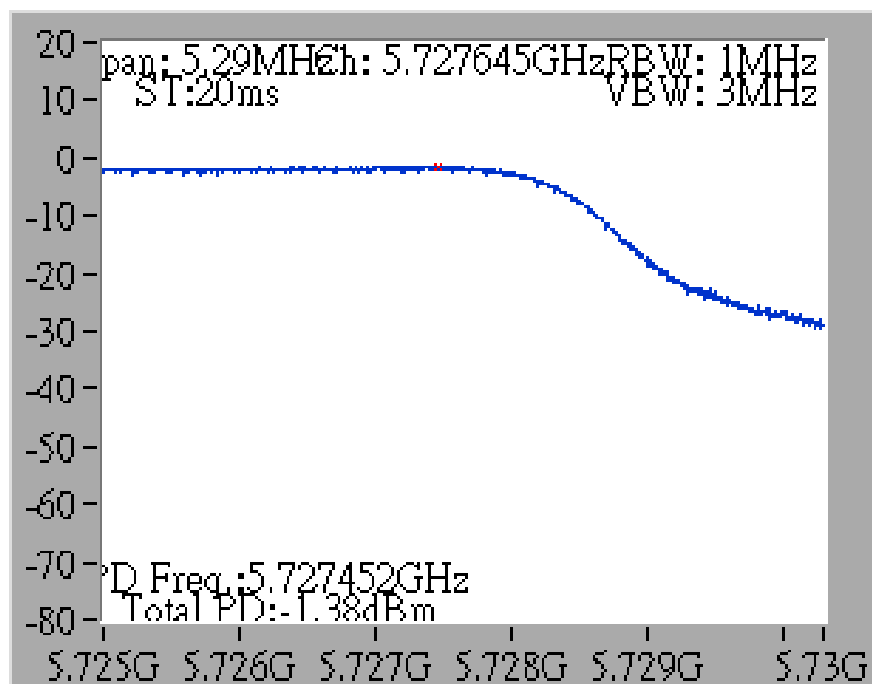
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5690 MHz (UNII 3)

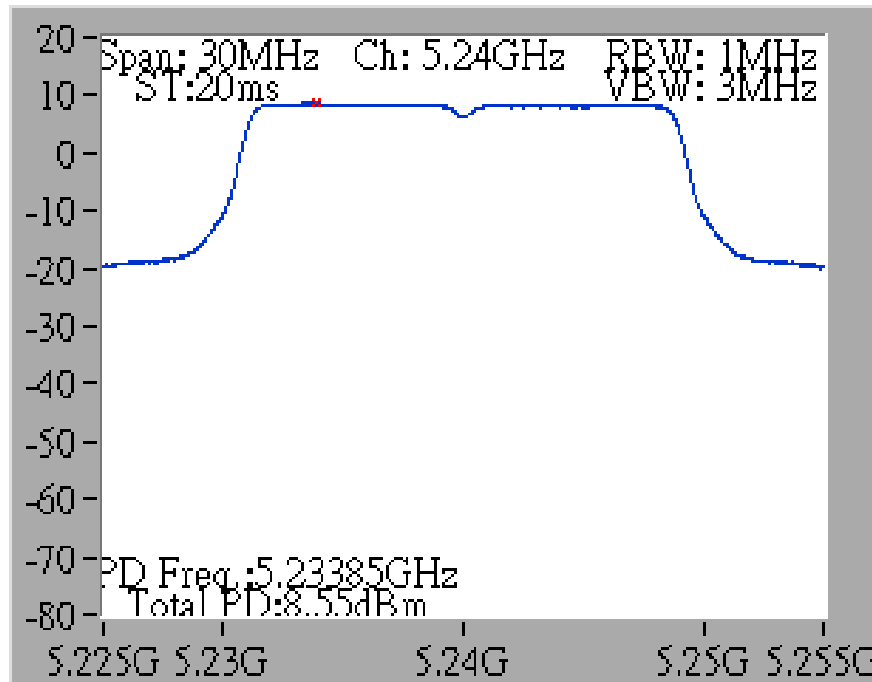


For Beamforming Mode

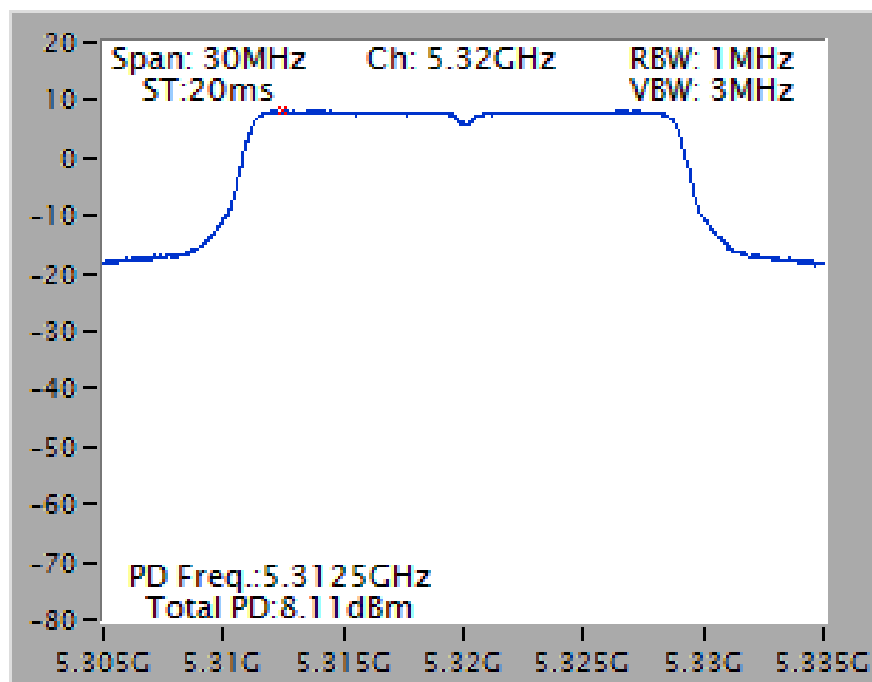
For indoor / outdoor use

Chain 1: 5.9dBi, Chain 2: 5.4dBi / 2TX

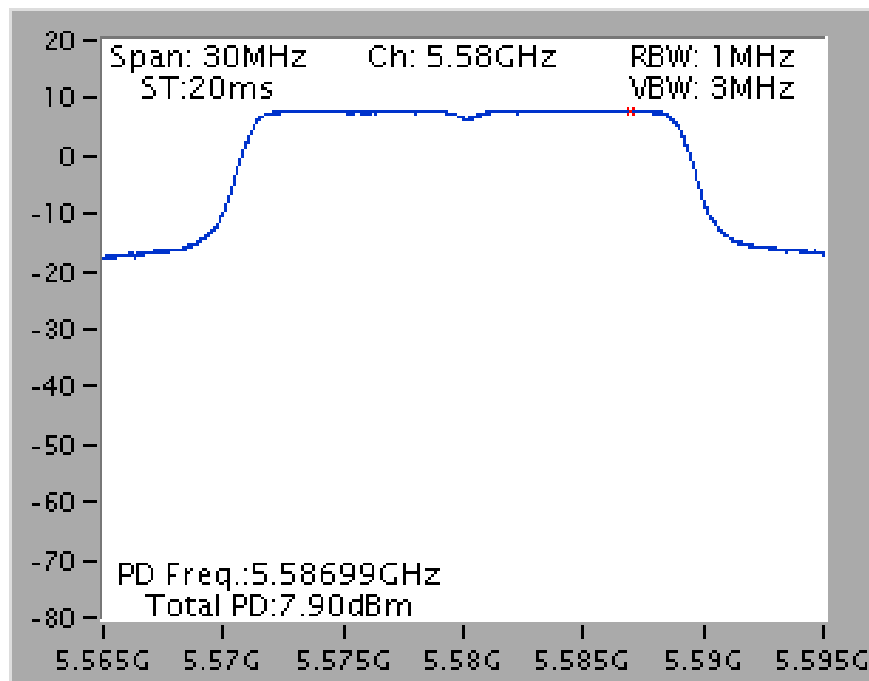
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5240 MHz



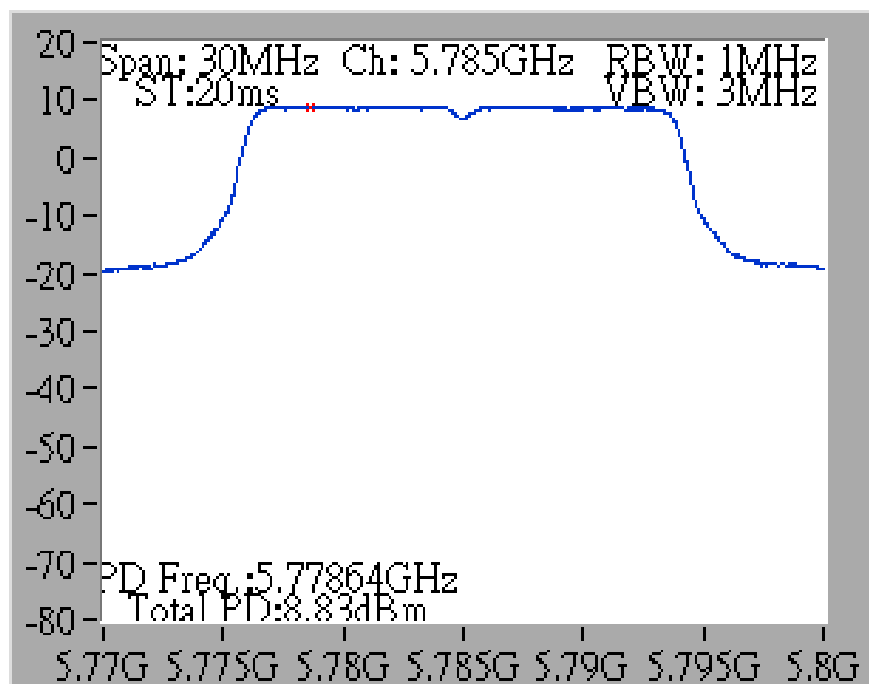
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5320 MHz



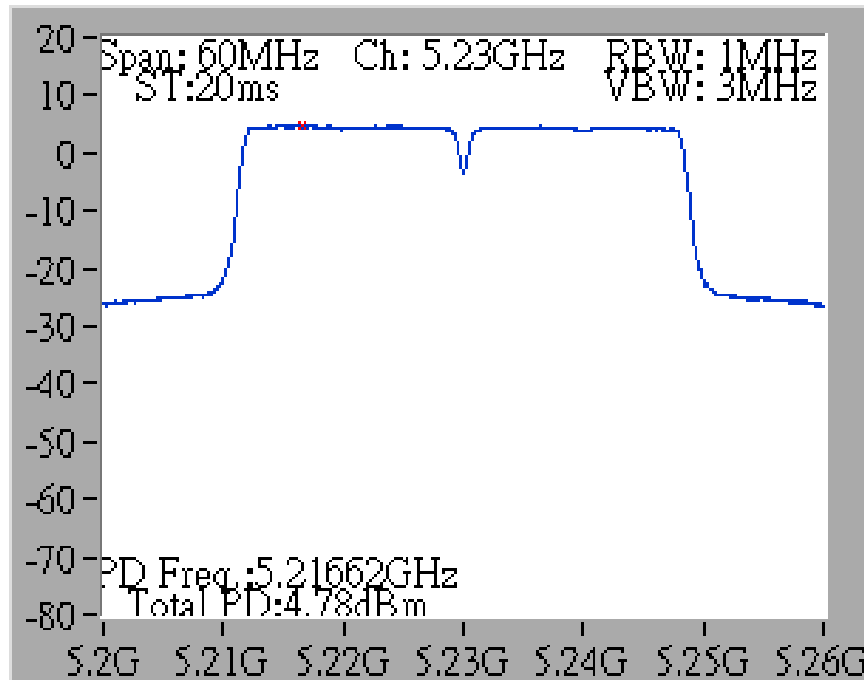
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5580 MHz



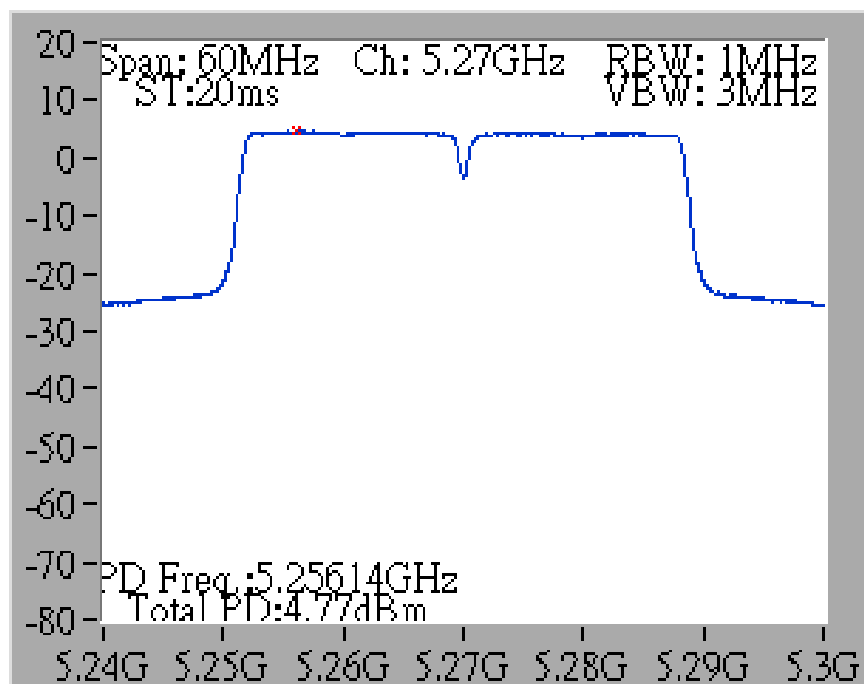
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5785 MHz



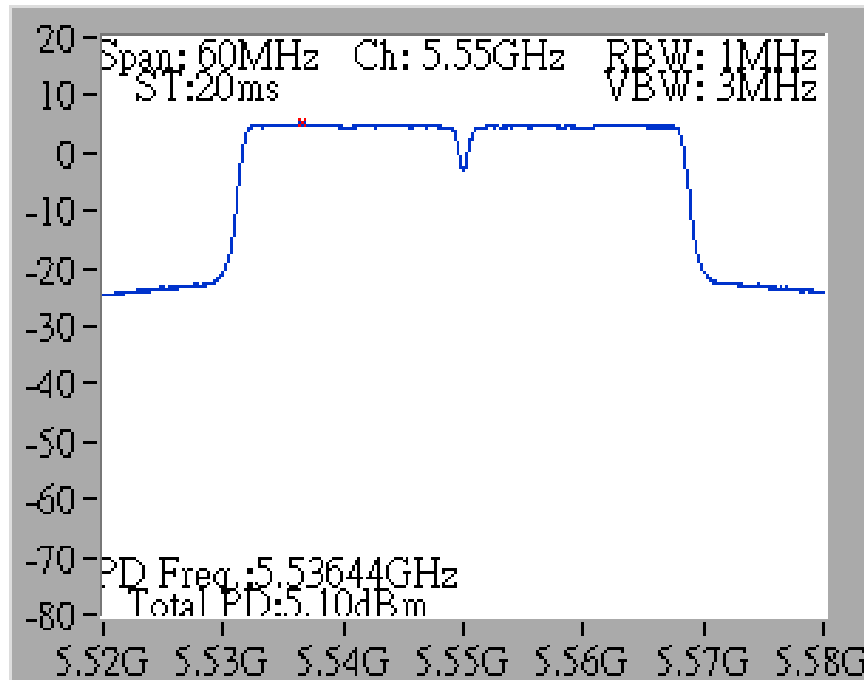
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5230 MHz



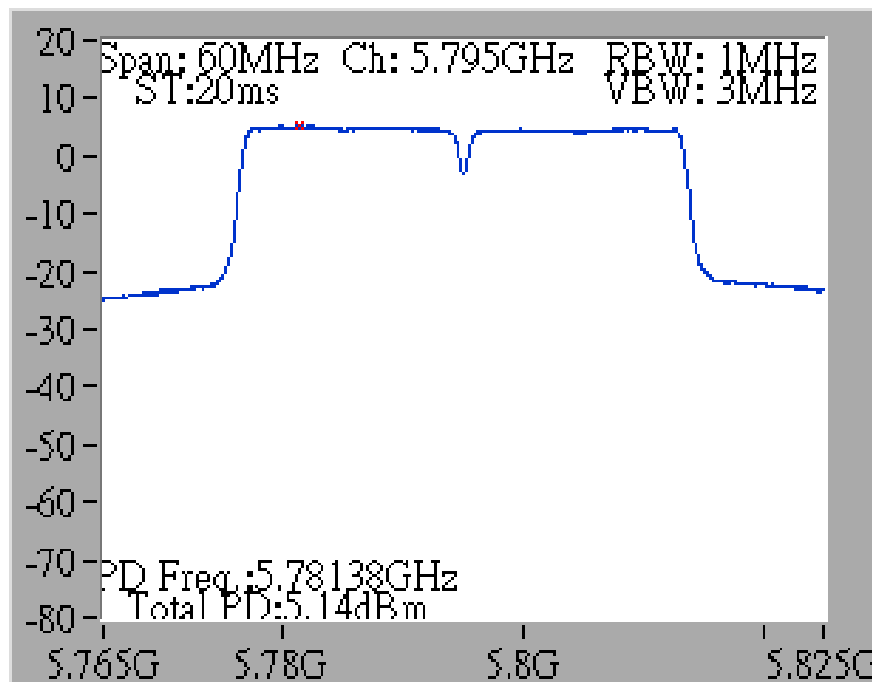
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



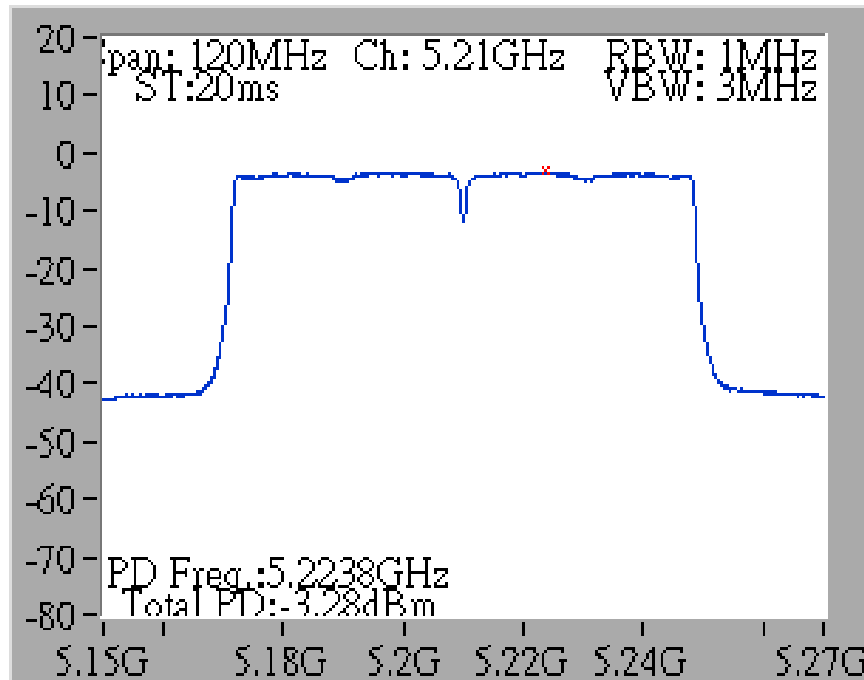
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5550 MHz



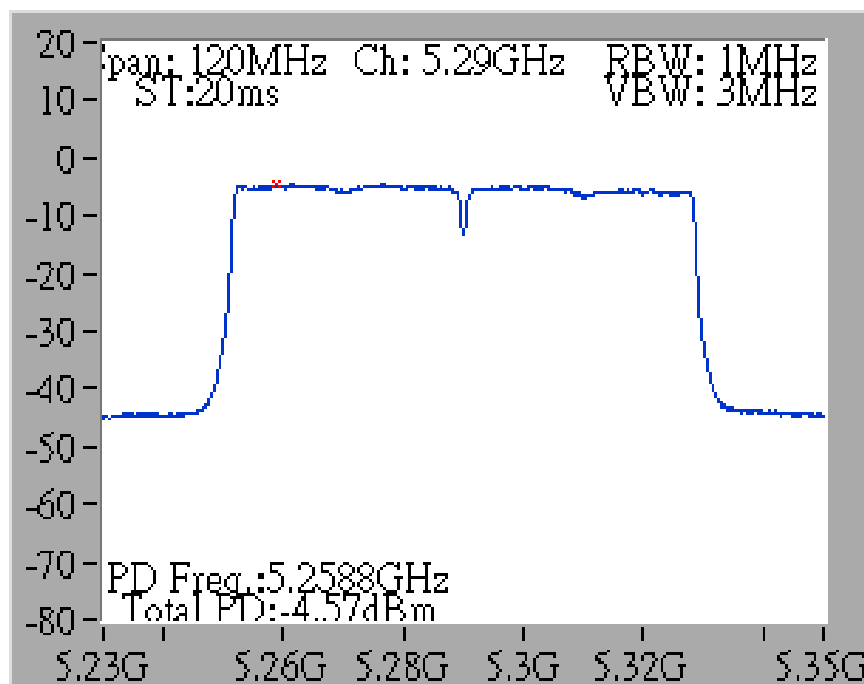
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5795 MHz



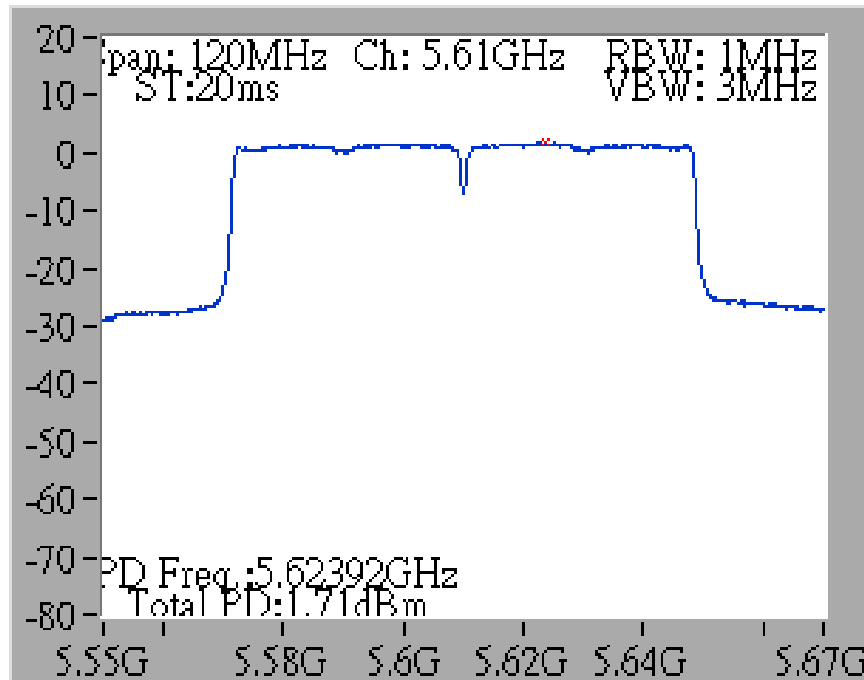
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5210 MHz



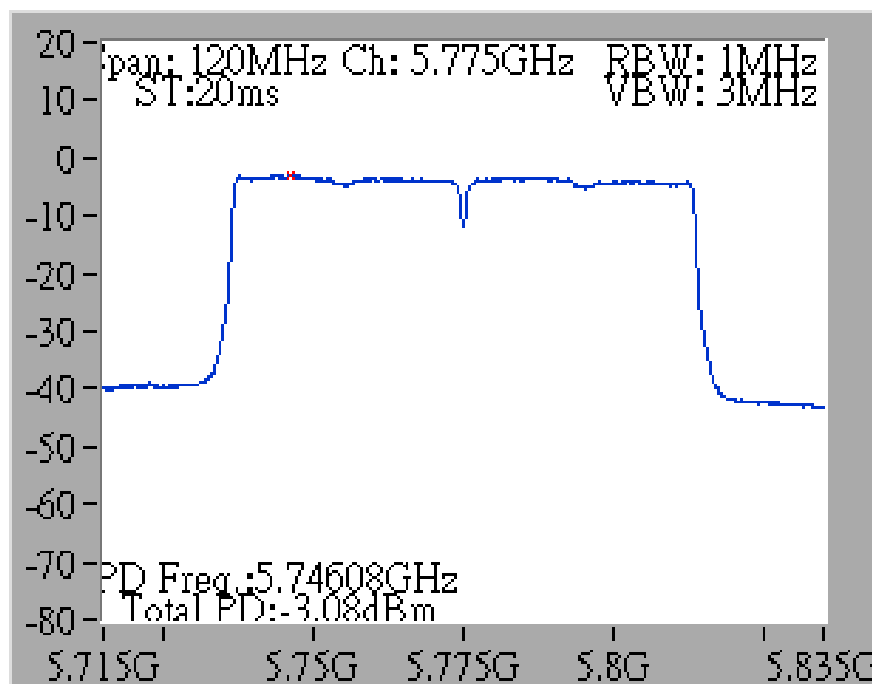
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5610 MHz

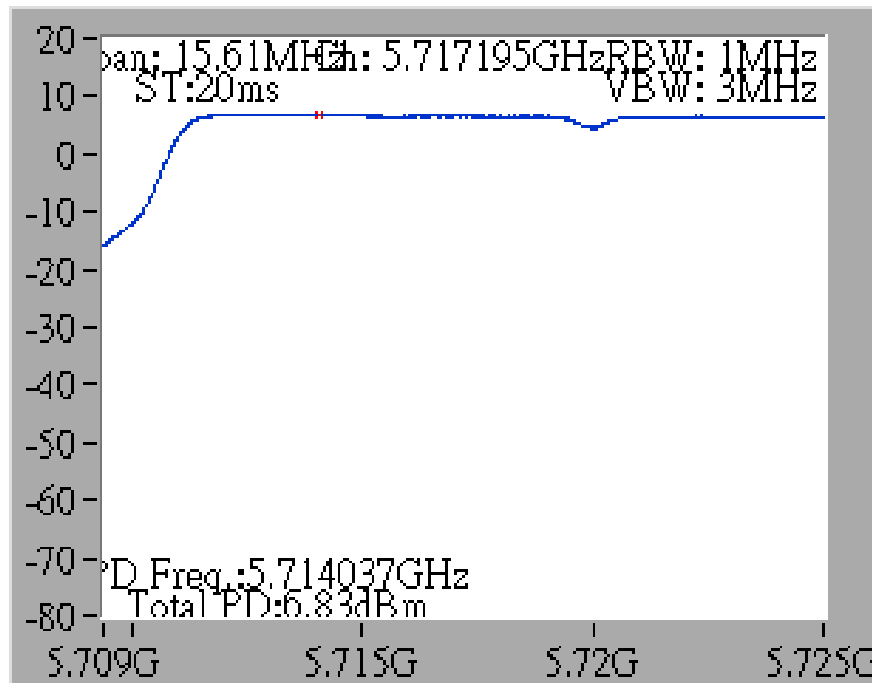


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5775 MHz

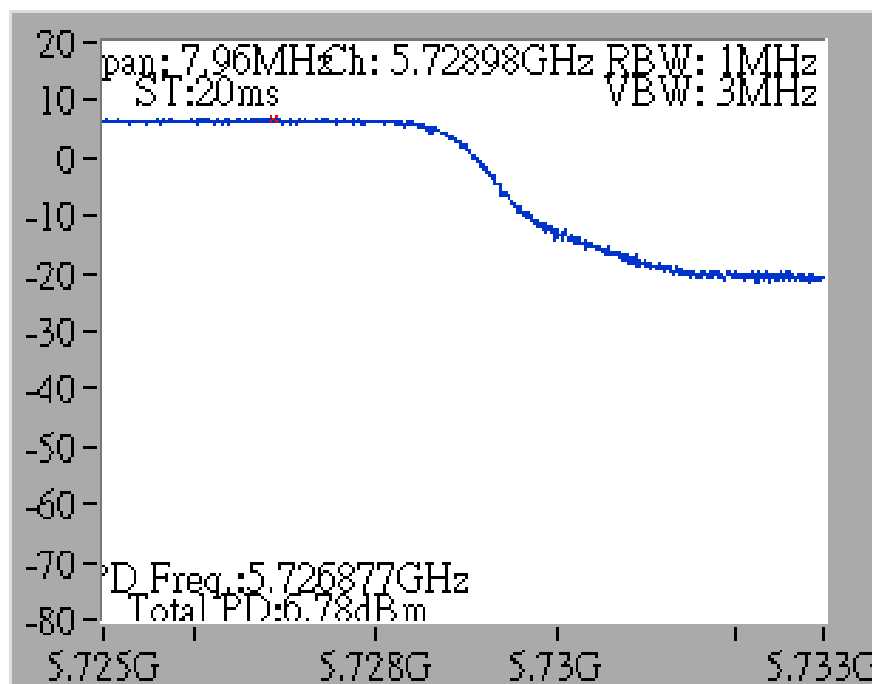


Straddle Channel

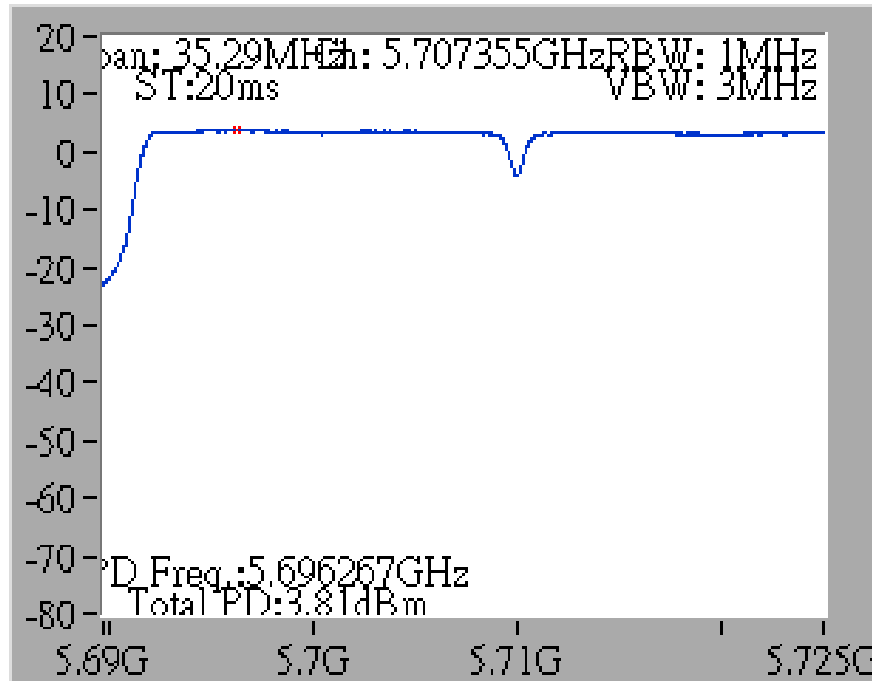
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz
(UNII 2C)



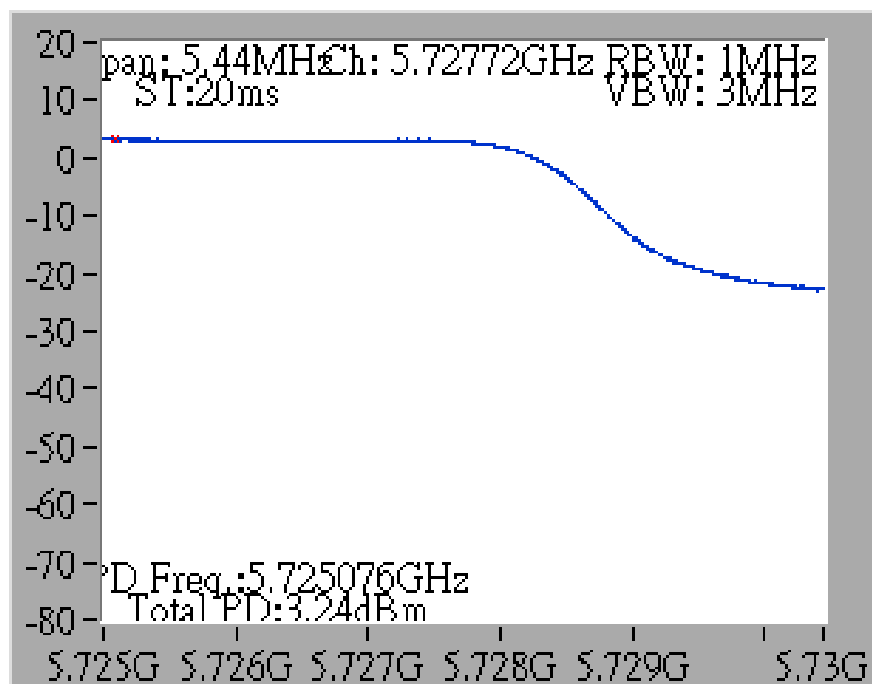
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5720 MHz
(UNII 3)



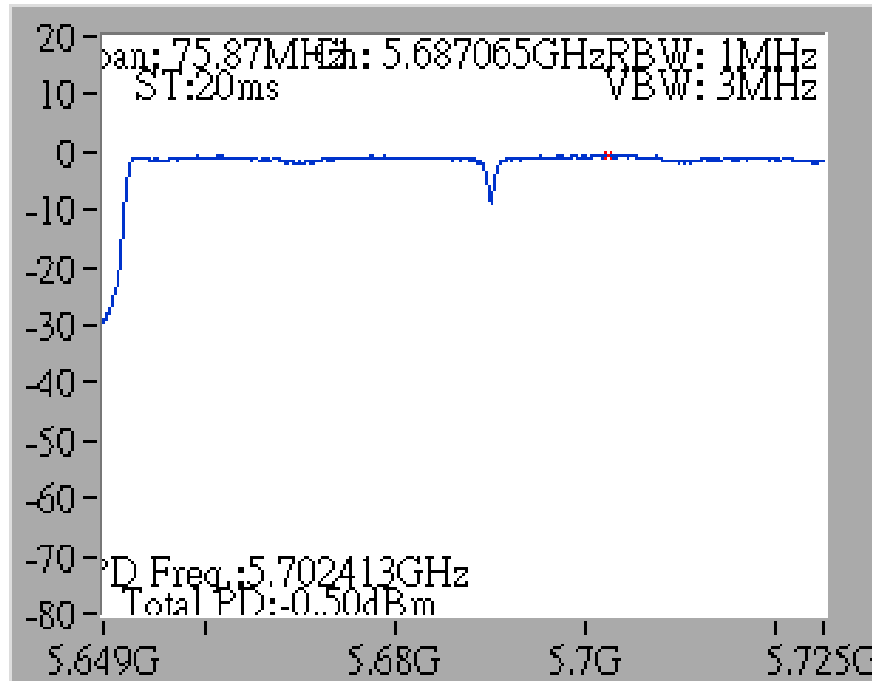
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz
(UNII 2C)



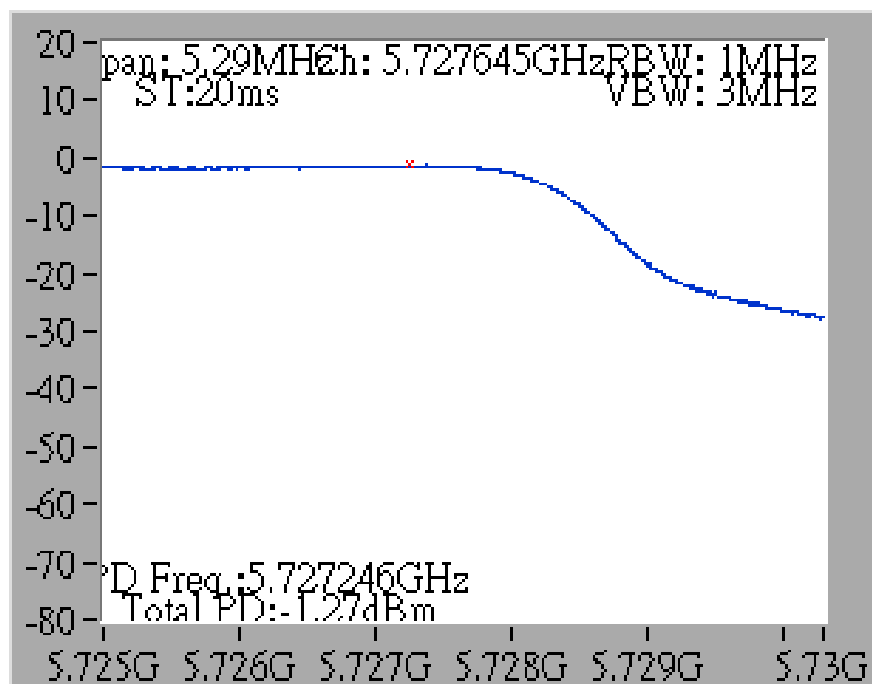
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5710 MHz
(UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz
(UNII 2C)

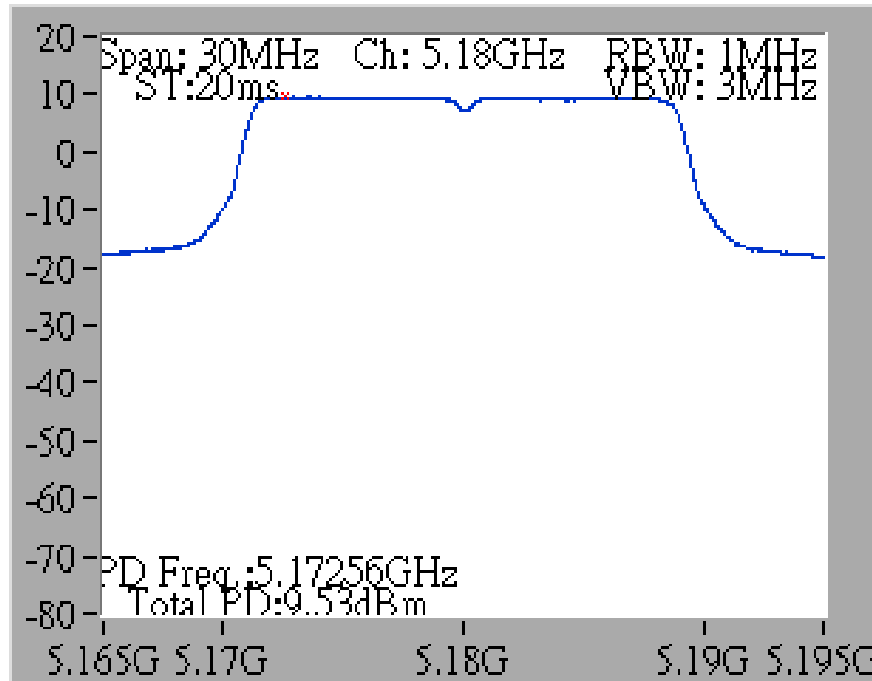


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5690 MHz
(UNII 3)

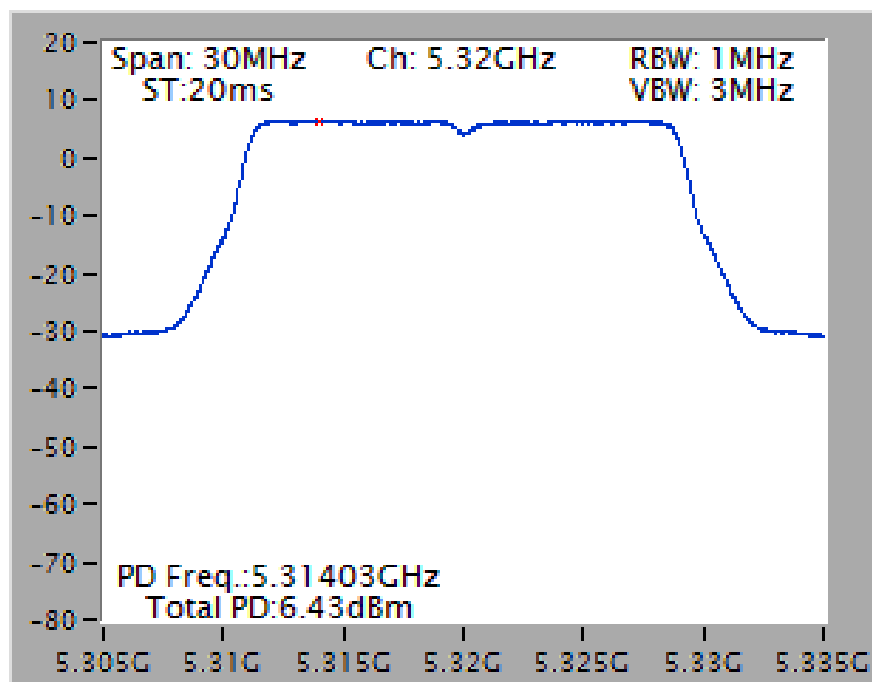


Chain 1: 5.9dBi, Chain 2: 5.4dBi, Chain 3: 5.9dBi / 3TX

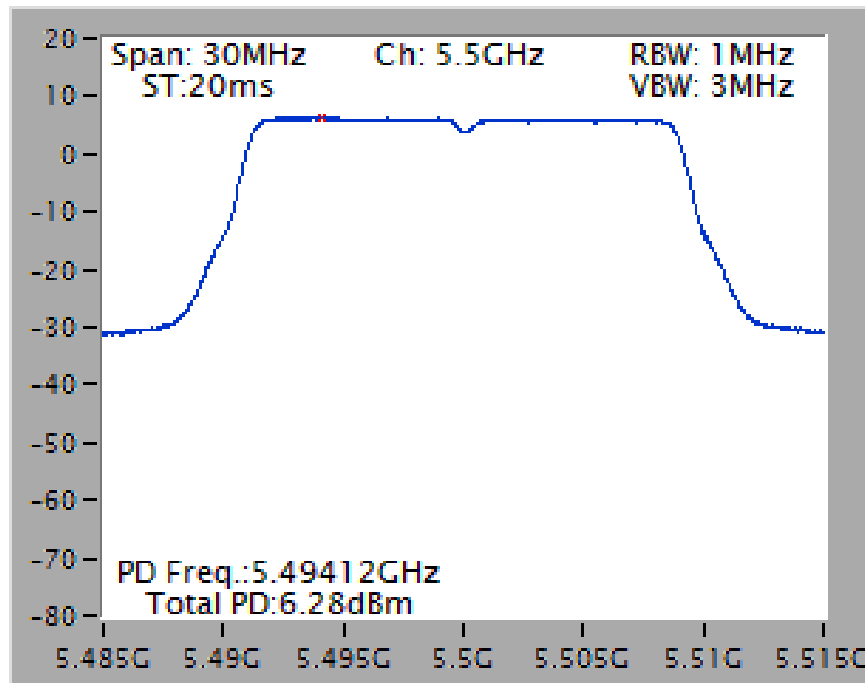
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5180 MHz



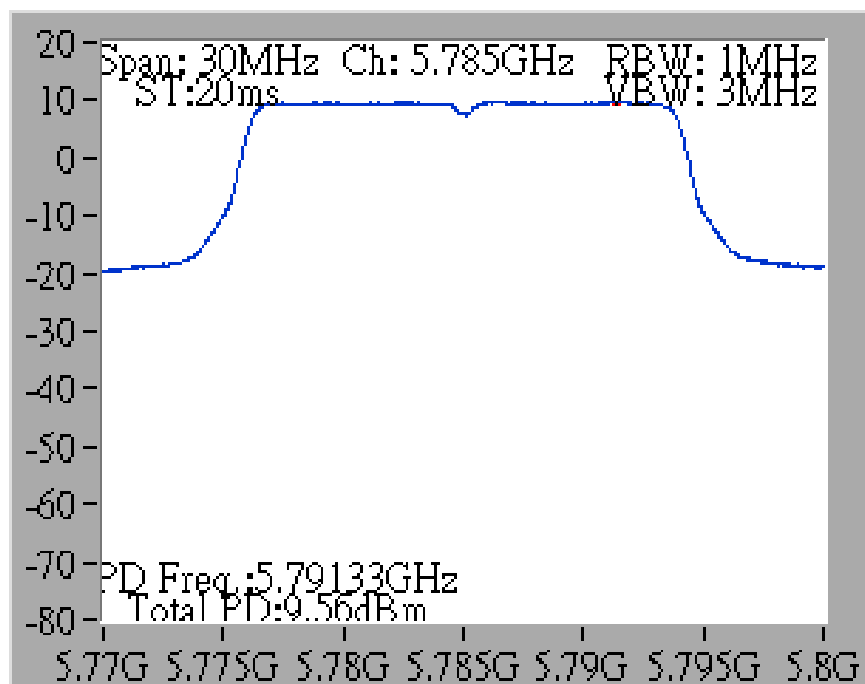
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5320 MHz



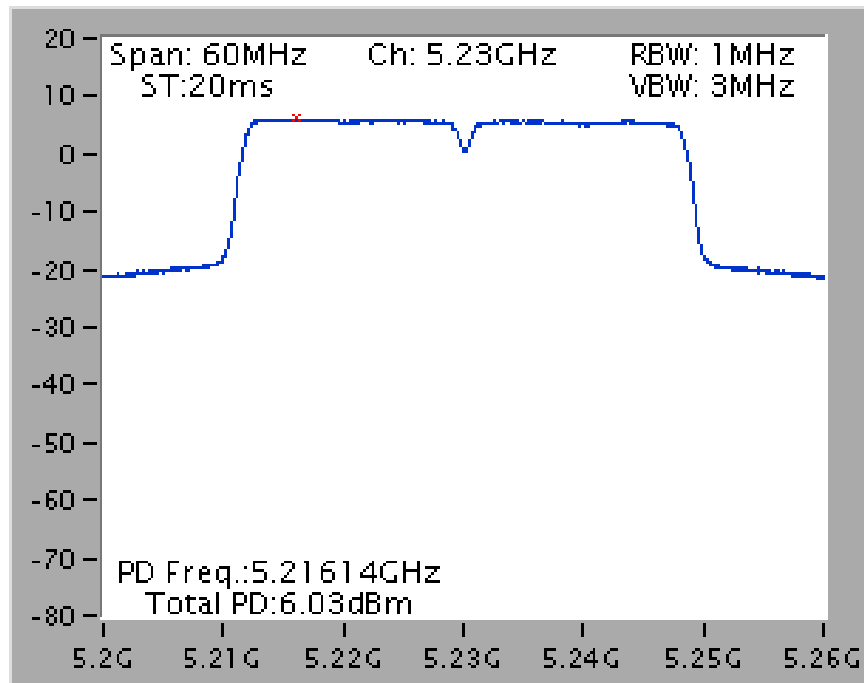
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5500 MHz



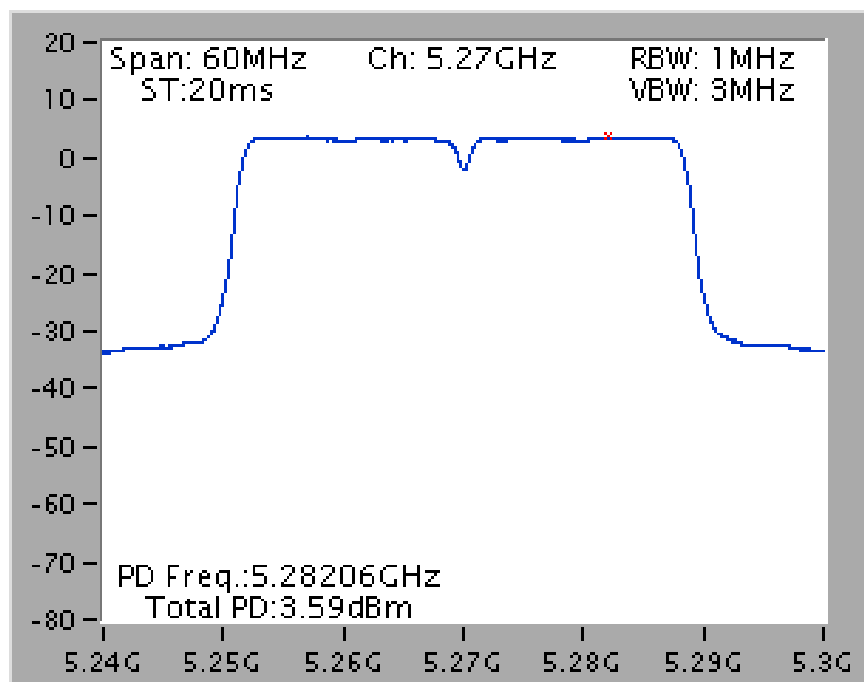
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 /
5785 MHz



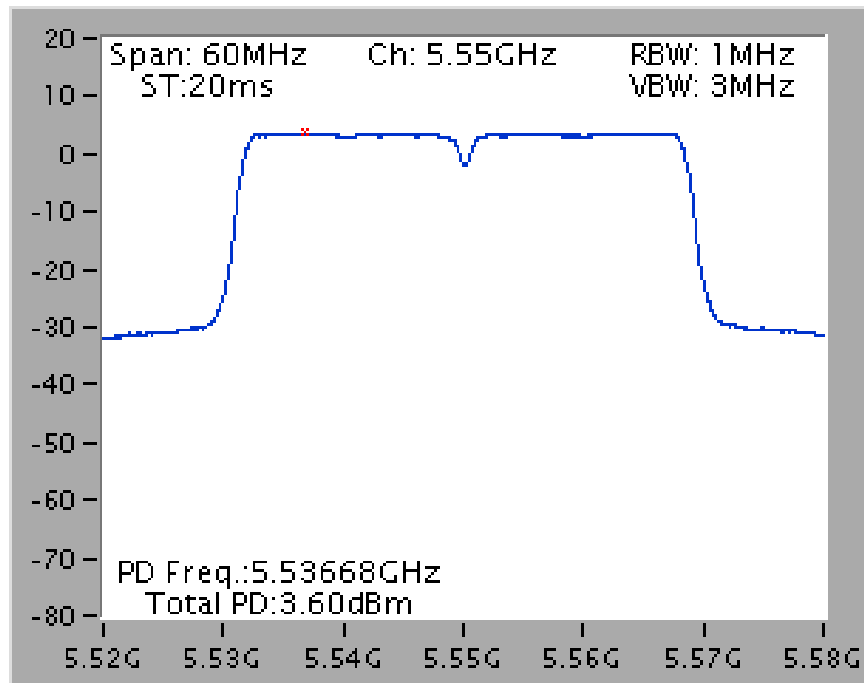
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 / 5230 MHz



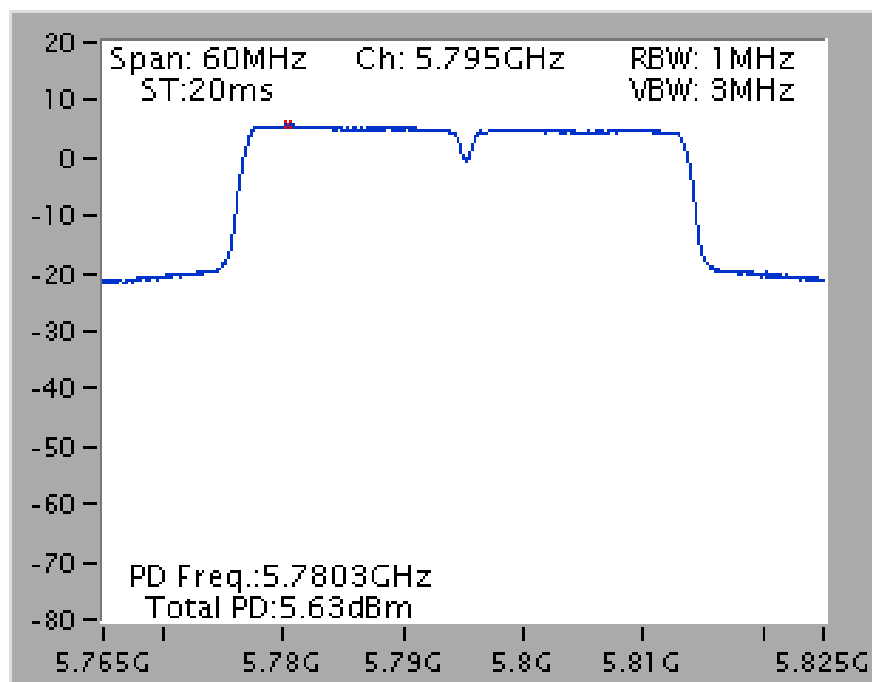
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 / 5270 MHz



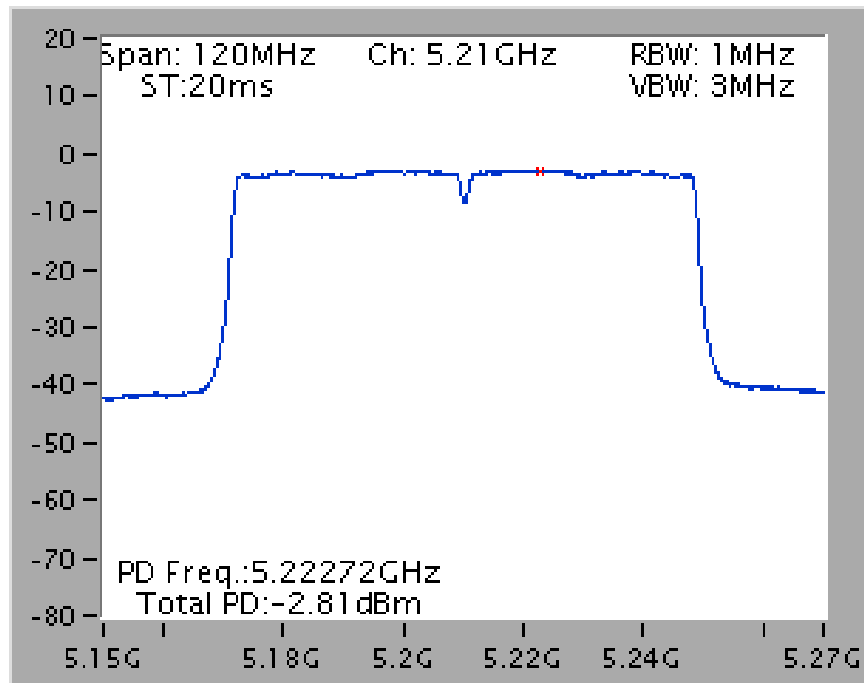
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5550 MHz



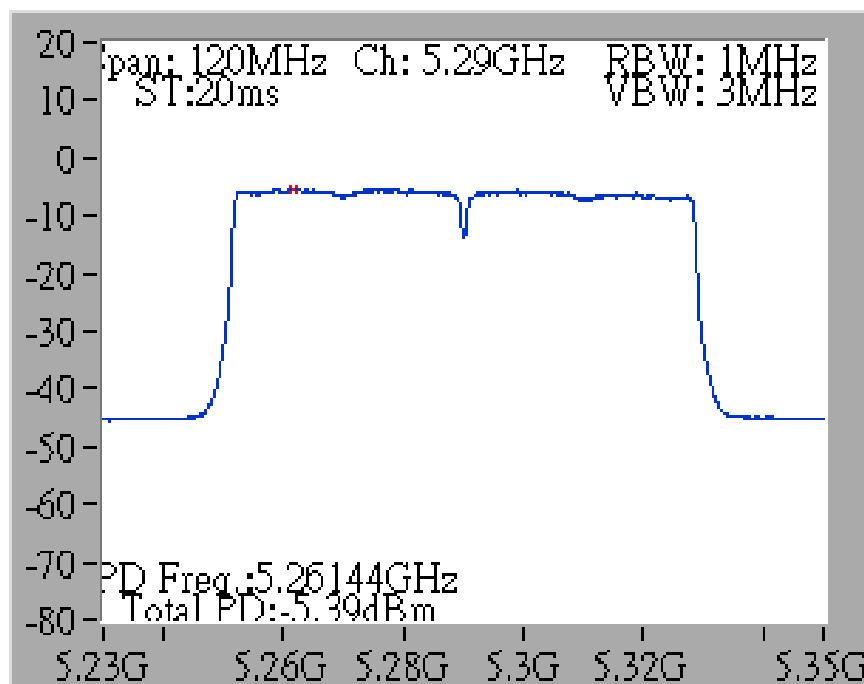
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5795 MHz



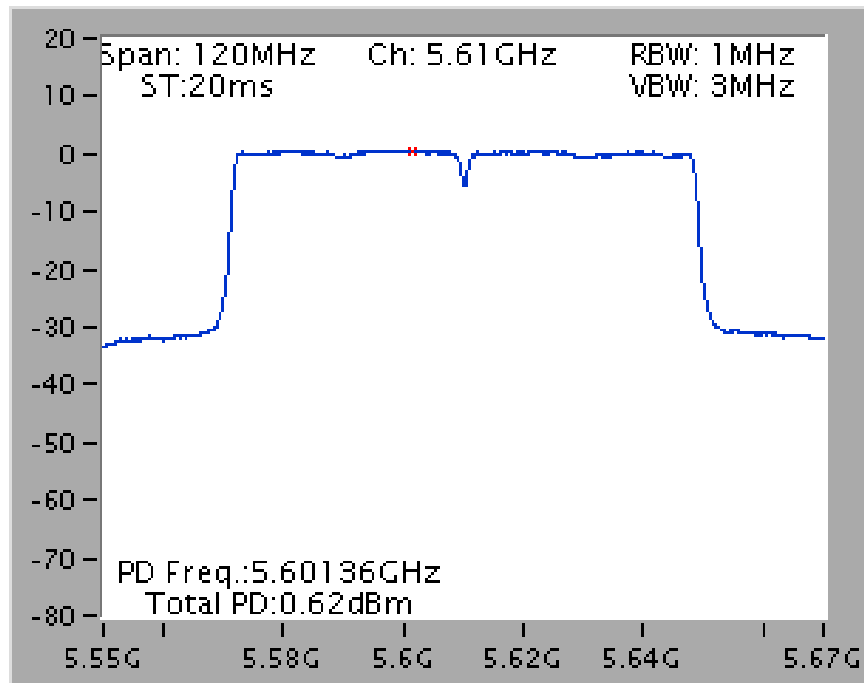
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5210 MHz



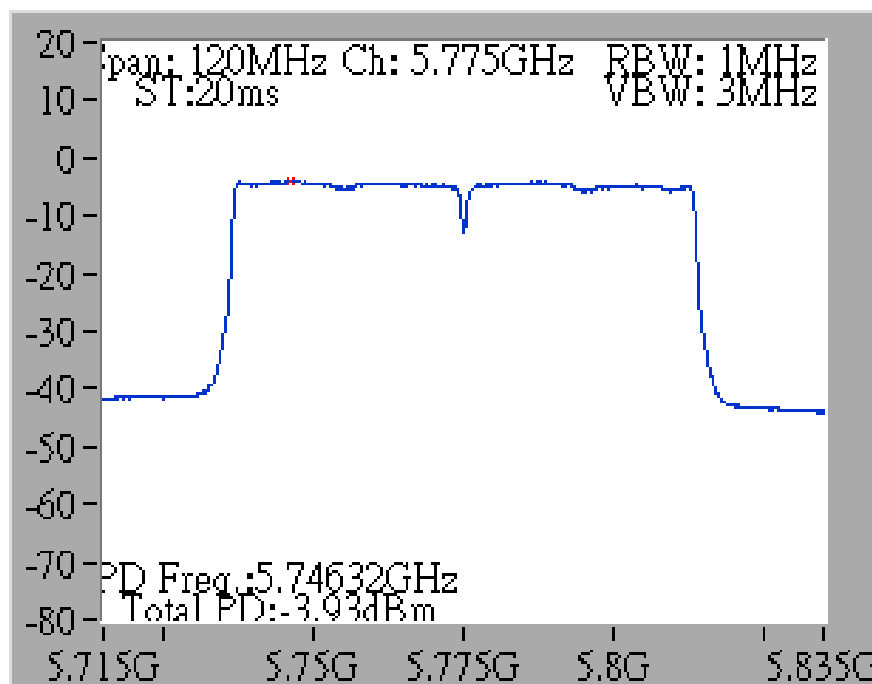
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5290 MHz



**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5610 MHz**

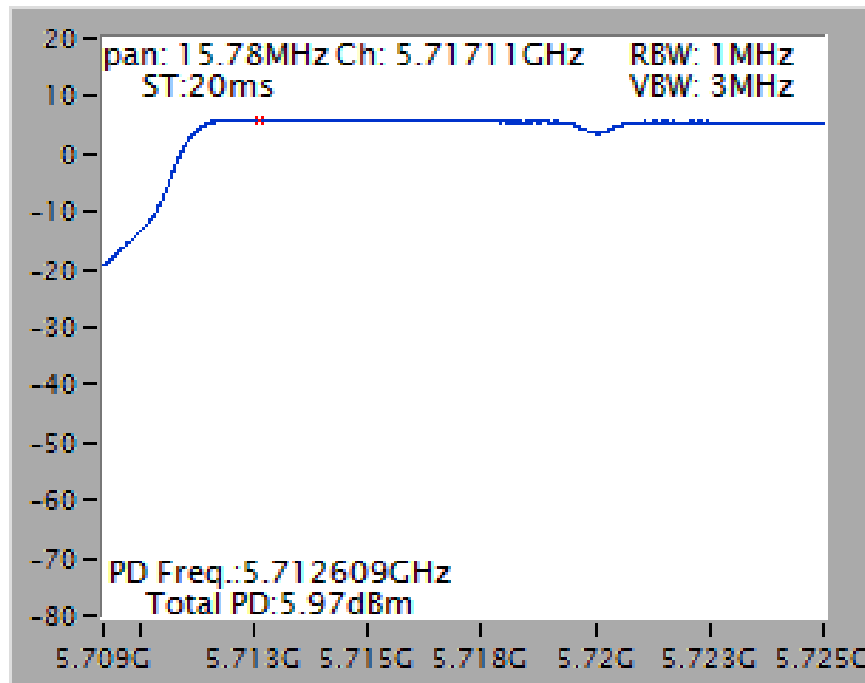


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5775 MHz**

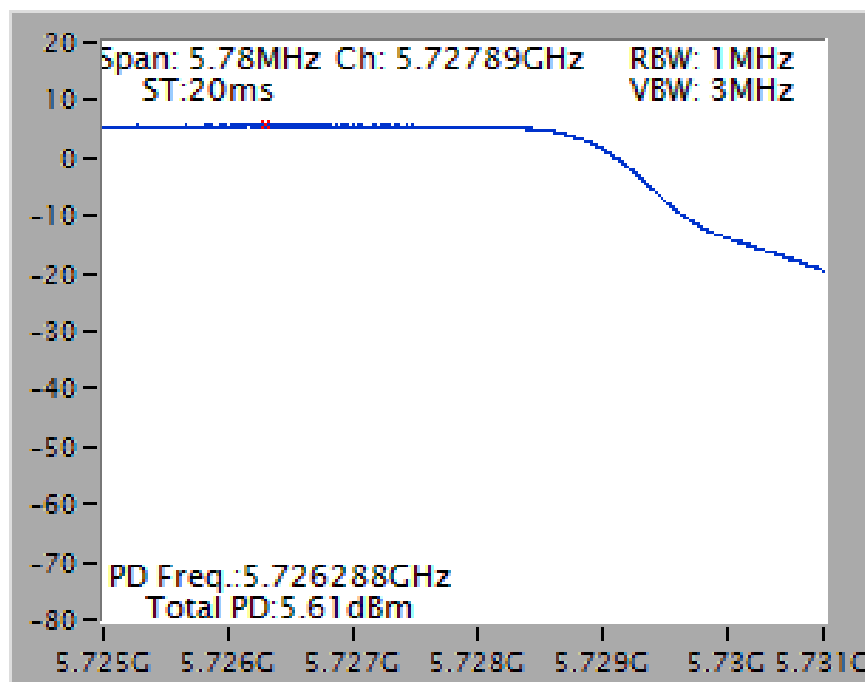


Straddle Channel

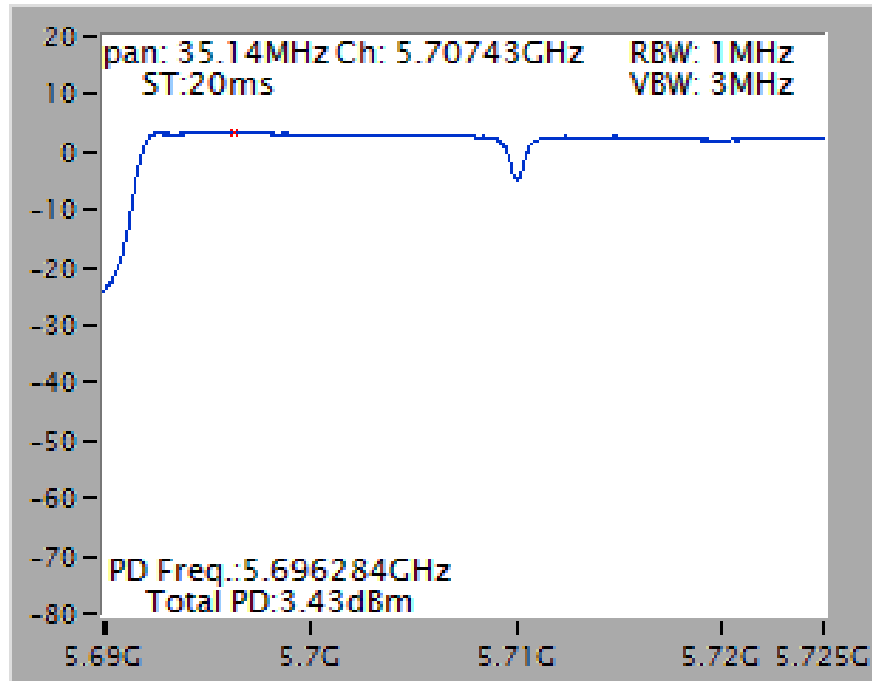
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 2C)



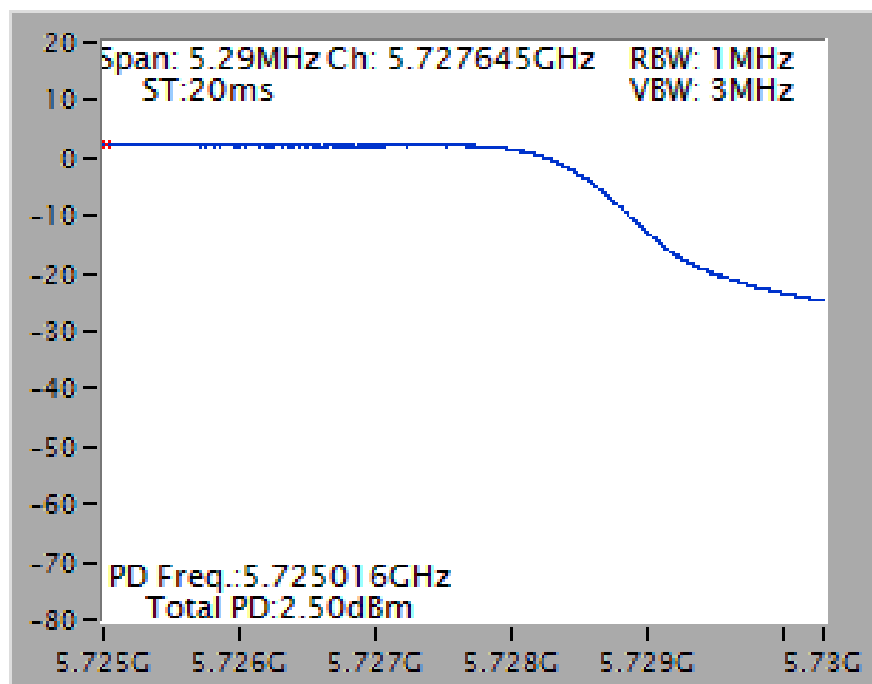
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 / 5720 MHz (UNII 3)



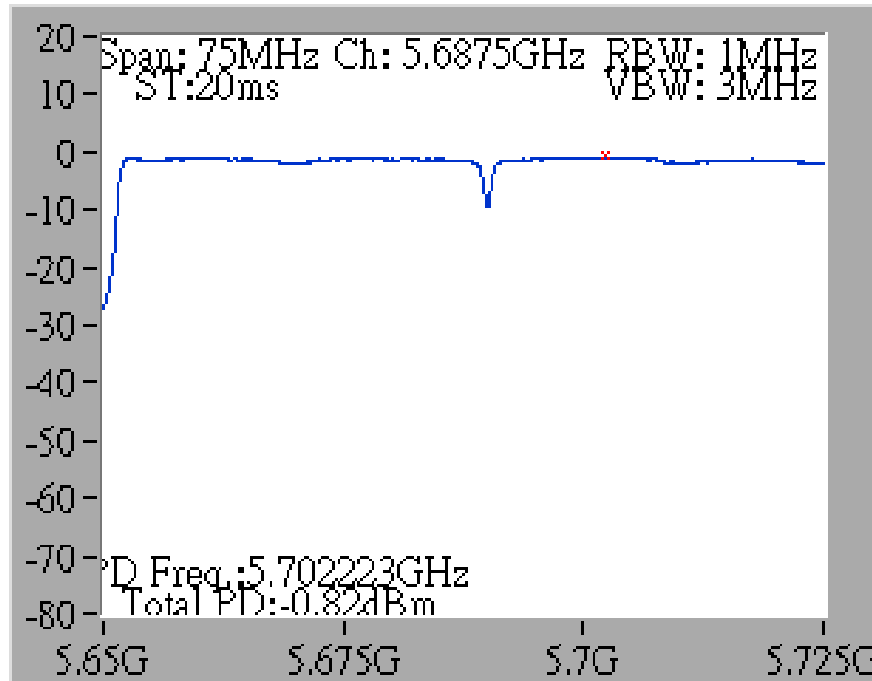
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5710 MHz (UNII 2C)



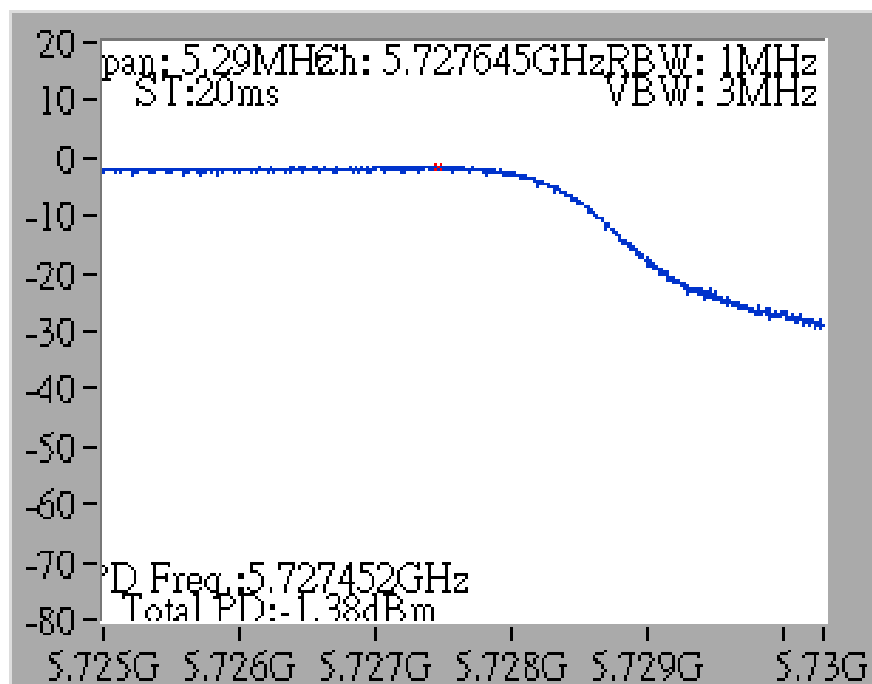
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 /
5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 /
5690 MHz (UNII 3)



4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

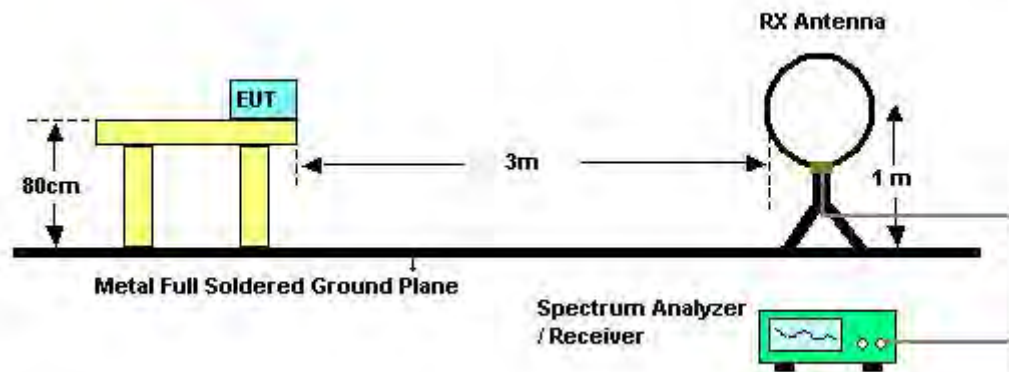
4.6.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

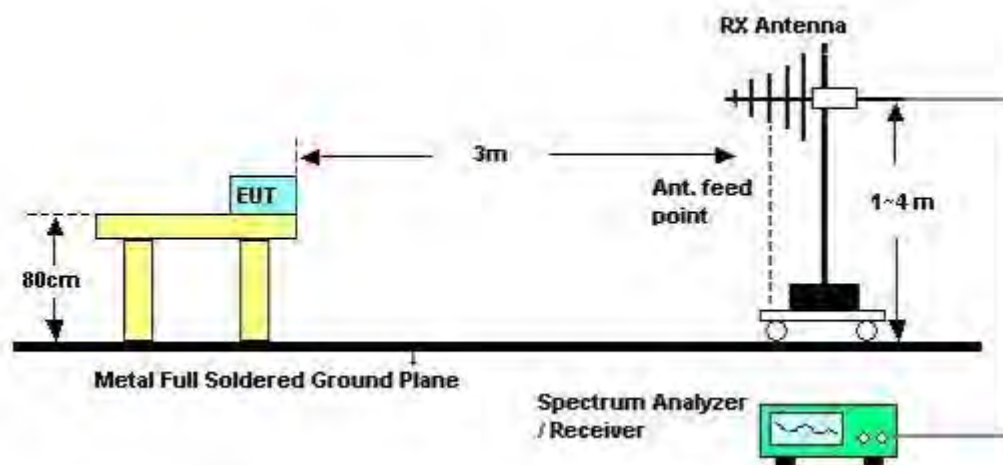
4.6.4. Test Setup Layout

For Unintentional and intentional:

9kHz ~30MHz

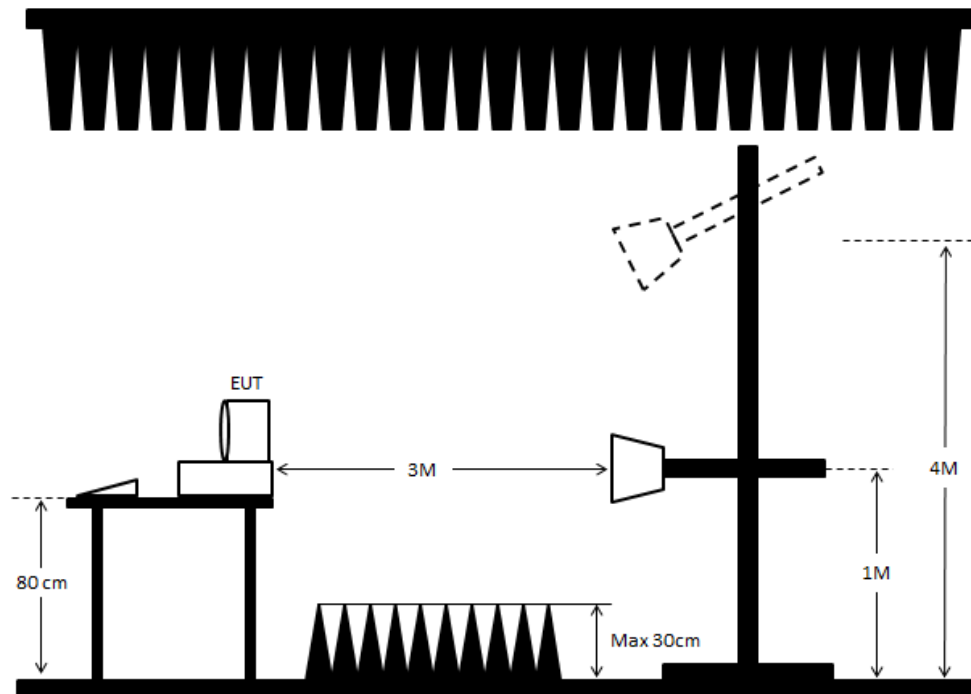


30MHz~1GHz

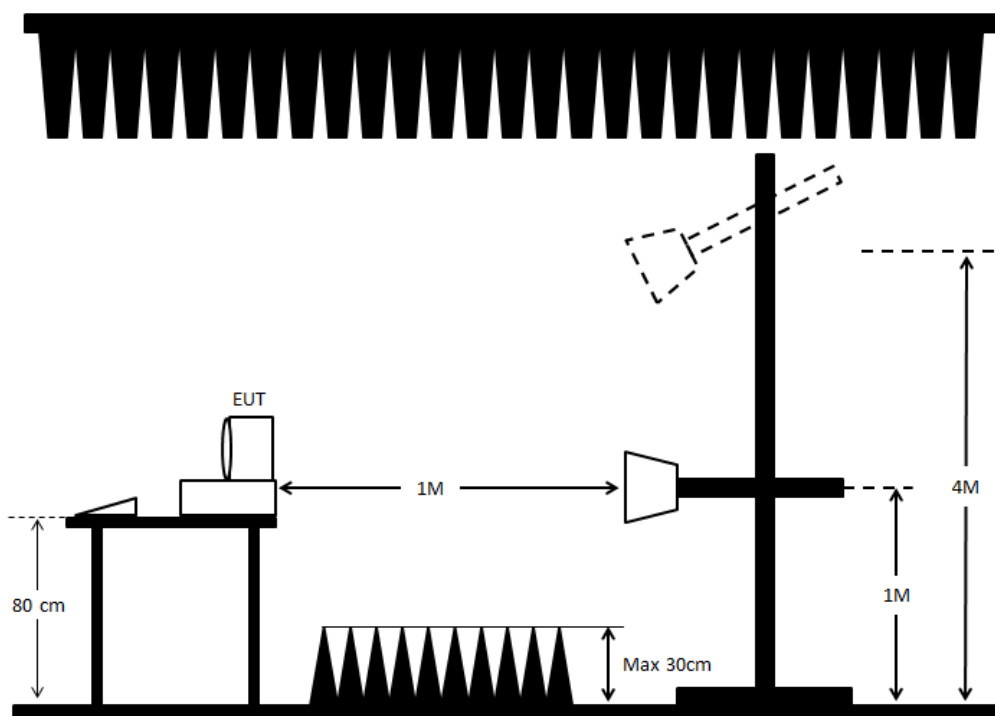


For Unintentional 1GHz~5th – CRX

1GHz~18GHz

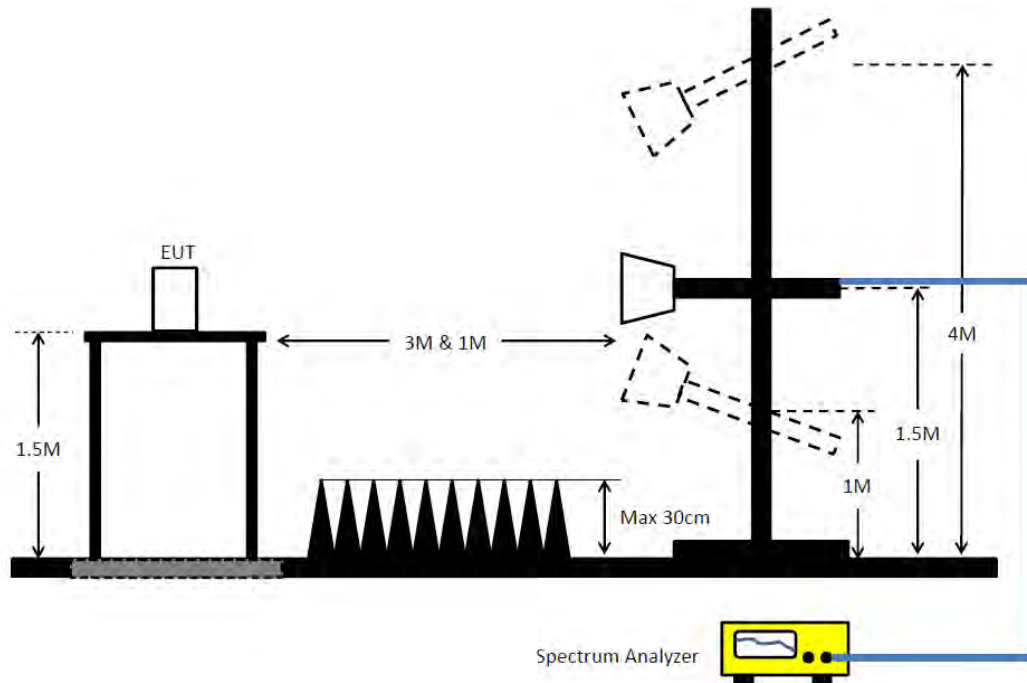


18GHz ~30GHz



For Intentional 1GHz~10th - CTX

Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz: Intentional and Unintentional)

Temperature	24°C	Humidity	65%
Test Engineer	Gino Huang	Configurations	Intentional – CTX
Test Date	Oct. 12, 2015	Test Mode	Mode 2

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Date	Jul. 07, 2017	Test Mode	Mode 3

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

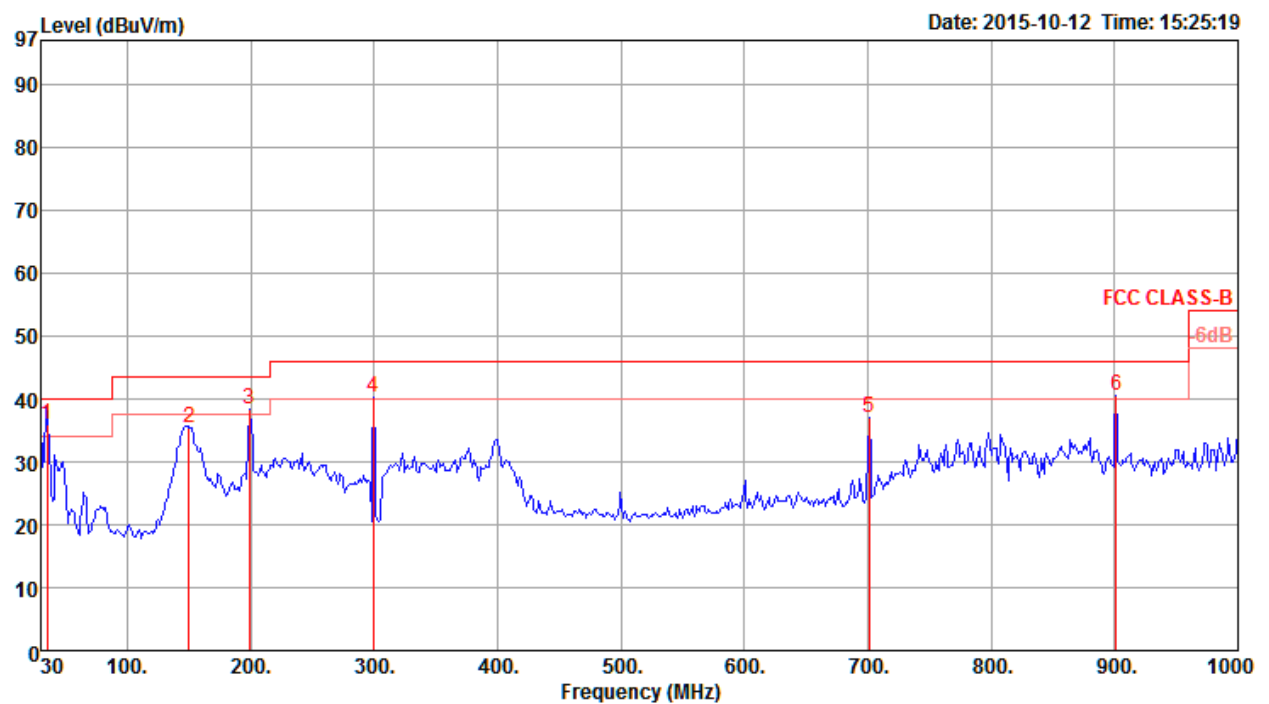
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz: Intentional and Unintentional)

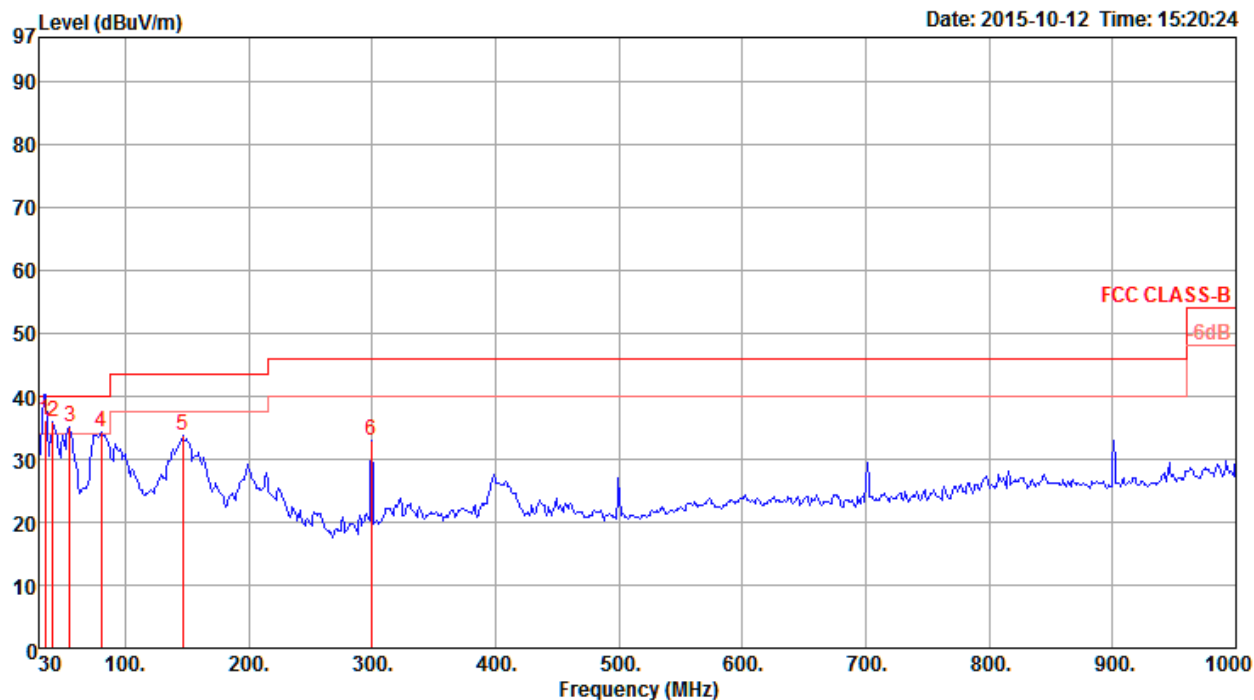
Temperature	24°C	Humidity	65%
Test Engineer	Gino Huang	Configurations	Intentional - CTX
Test Mode	Mode 2		

Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	34.85	35.92	40.00	-4.08	48.01	0.61	16.80	29.50	312	156 QP	HORIZONTAL
2	150.28	35.53	43.50	-7.97	52.35	1.03	11.20	29.05	360	100 Peak	HORIZONTAL
3	198.78	38.33	43.50	-5.17	55.56	1.17	10.43	28.83	360	100 Peak	HORIZONTAL
4	299.66	40.24	46.00	-5.76	53.27	1.40	13.90	28.33	360	100 Peak	HORIZONTAL
5	701.24	36.97	46.00	-9.03	44.05	2.12	19.71	28.91	360	100 Peak	HORIZONTAL
6	901.06	40.40	46.00	-5.60	44.47	2.40	21.51	27.98	360	100 Peak	HORIZONTAL

Vertical



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	34.85	36.18	40.00	-3.82	48.27	0.61	16.80	29.50	351	122 QP	VERTICAL
2	41.64	35.94	40.00	-4.06	52.25	0.59	12.58	29.48	360	100 Peak	VERTICAL
3	55.22	35.06	40.00	-4.94	55.93	0.67	7.90	29.44	360	100 Peak	VERTICAL
4	80.44	34.31	40.00	-5.69	55.49	0.76	7.40	29.34	360	100 Peak	VERTICAL
5	146.40	33.64	43.50	-9.86	50.16	1.02	11.53	29.07	360	100 Peak	VERTICAL
6	299.66	32.92	46.00	-13.08	45.95	1.40	13.90	28.33	360	100 Peak	VERTICAL

Note:

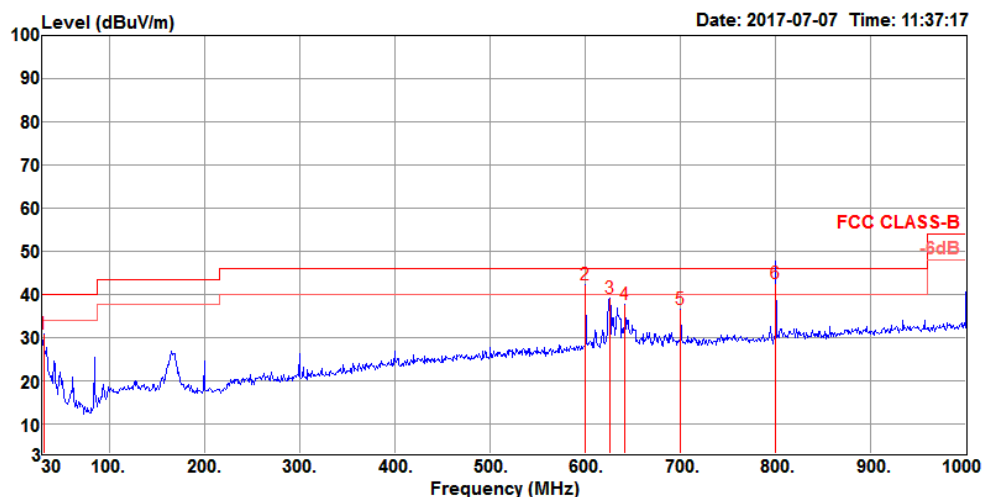
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

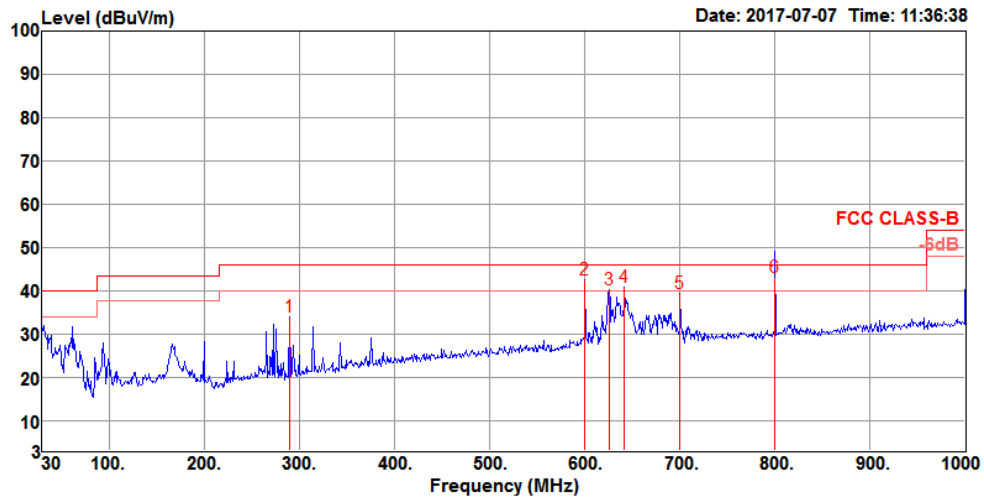
Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Mode	Mode 3		

Horizontal



	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	30.97	30.74	40.00	-9.26	37.19	0.89	25.19	32.53	200	209	Peak	HORIZONTAL
2	600.36	42.33	46.00	-3.67	45.65	4.35	24.90	32.57	200	79	Peak	HORIZONTAL
3	625.58	39.05	46.00	-6.95	42.00	4.44	25.16	32.55	150	102	Peak	HORIZONTAL
4	642.07	37.56	46.00	-8.44	40.27	4.50	25.33	32.54	150	122	Peak	HORIZONTAL
5	700.27	36.62	46.00	-9.38	38.82	4.71	25.60	32.51	150	141	Peak	HORIZONTAL
6	800.18	42.58	46.00	-3.42	43.25	5.05	26.60	32.32	100	192	QP	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	289.96	33.97	46.00	-12.03	43.95	2.96	19.50	32.44	250	238 Peak	VERTICAL
2	600.36	42.62	46.00	-3.38	45.94	4.35	24.90	32.57	100	162 Peak	VERTICAL
3	625.58	40.12	46.00	-5.88	43.07	4.44	25.16	32.55	100	132 Peak	VERTICAL
4	642.07	40.91	46.00	-5.09	43.62	4.50	25.33	32.54	100	229 Peak	VERTICAL
5	700.27	39.36	46.00	-6.64	41.56	4.71	25.60	32.51	100	255 Peak	VERTICAL
6	800.18	43.15	46.00	-2.85	43.82	5.05	26.60	32.32	100	4 QP	VERTICAL

Note:

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

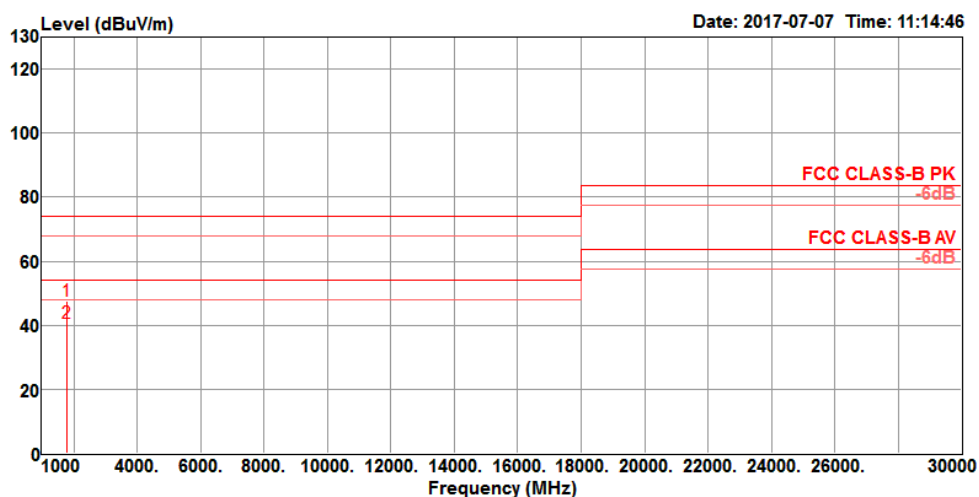
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (above 1GHz: Unintentional 1GHz~5th)

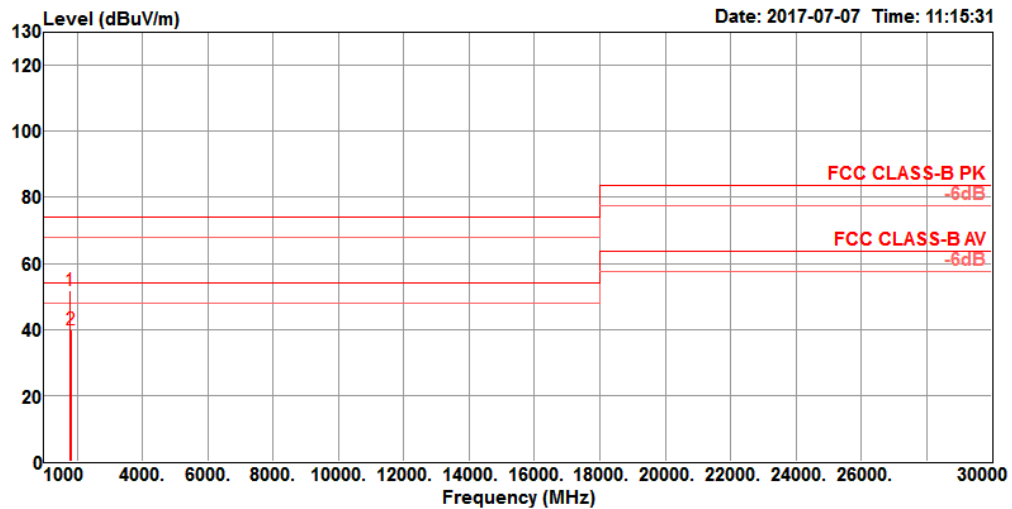
Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun & Gino Huang	Configurations	Unintentional – CRX
Test Mode	Mode 3		

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	1784.00	47.40	74.00	-26.60	51.00	4.26	25.88	33.74	165	71 Peak	HORIZONTAL
2	1784.20	40.59	54.00	-13.41	44.19	4.26	25.88	33.74	165	71 Average	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	1788.40	51.84	74.00	-22.16	55.43	4.26	25.89	33.74	176	78 Peak	VERTICAL
2	1810.00	40.03	54.00	-13.97	43.53	4.28	25.92	33.70	176	78 Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.10. Results for Radiated Emissions (above 1GHz: Intentional 1GHz~10th)

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15536.64	44.59	54.00	-9.41	31.29	9.76	38.16	34.62	125	150 Average	HORIZONTAL
2	15541.77	57.79	74.00	-16.21	44.49	9.76	38.16	34.62	125	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15540.38	57.79	74.00	-16.21	44.49	9.76	38.16	34.62	45	150 Peak	VERTICAL
2	15549.23	43.68	54.00	-10.32	30.36	9.77	38.19	34.64	45	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15601.56	44.57	54.00	-9.43	31.16	9.81	38.29	34.69	156	150 Average	HORIZONTAL
2	15603.59	58.36	74.00	-15.64	44.95	9.81	38.29	34.69	156	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15599.33	58.12	74.00	-15.88	44.71	9.81	38.29	34.69	212	150 Peak	VERTICAL
2	15605.24	44.17	54.00	-9.83	30.76	9.81	38.29	34.69	212	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15710.56	59.68	74.00	-14.32	46.12	9.87	38.47	34.78	66	150 Peak	HORIZONTAL
2	15724.40	45.96	54.00	-8.04	32.36	9.88	38.50	34.78	66	150 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15724.43	45.83	54.00	-8.17	32.23	9.88	38.50	34.78	137	150 Average	VERTICAL
2	15728.74	58.89	74.00	-15.11	45.31	9.88	38.50	34.80	137	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15776.15	46.12	54.00	-7.88	32.42	9.92	38.60	34.82	250	150 Average	HORIZONTAL
2	15786.71	59.01	74.00	-14.99	45.29	9.93	38.63	34.84	250	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15777.13	45.62	54.00	-8.38	31.92	9.92	38.60	34.82	298	150 Average	VERTICAL
2	15779.13	58.89	74.00	-15.11	45.21	9.92	38.60	34.84	298	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15890.33	45.82	54.00	-8.18	31.95	9.99	38.81	34.93	165	150 Average	HORIZONTAL
2	15897.42	58.57	74.00	-15.43	44.70	9.99	38.81	34.93	165	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15890.91	45.23	54.00	-8.77	31.36	9.99	38.81	34.93	215	150 Average	VERTICAL
2	15905.21	58.72	74.00	-15.28	44.83	10.00	38.84	34.95	215	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15953.40	45.38	54.00	-8.62	31.38	10.04	38.94	34.98	128	150 Average	HORIZONTAL
2	15960.61	57.87	74.00	-16.13	43.89	10.04	38.94	35.00	128	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15957.02	58.35	74.00	-15.65	44.37	10.04	38.94	35.00	146	150 Peak	VERTICAL
2	15969.72	44.71	54.00	-9.29	30.69	10.05	38.97	35.00	146	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11000.72	41.39	54.00	-12.61	29.65	7.70	38.70	34.66	150	150	Average	HORIZONTAL
2	11009.12	54.21	74.00	-19.79	42.48	7.69	38.70	34.66	150	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11006.95	41.03	54.00	-12.97	29.30	7.69	38.70	34.66	203	150	Average	VERTICAL
2	11009.00	54.55	74.00	-19.45	42.82	7.69	38.70	34.66	203	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11150.22	41.86	54.00	-12.14	30.22	7.59	38.70	34.65	144	150 Average	HORIZONTAL
2	11161.97	54.49	74.00	-19.51	42.86	7.58	38.70	34.65	144	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11158.32	41.62	54.00	-12.38	29.99	7.58	38.70	34.65	179	150 Average	VERTICAL
2	11166.05	54.74	74.00	-19.26	43.11	7.58	38.70	34.65	179	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11403.56	41.26	54.00	-12.74	29.79	7.40	38.70	34.63	126	150 Average	HORIZONTAL
2	11406.74	53.92	74.00	-20.08	42.45	7.40	38.70	34.63	126	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11395.77	40.99	54.00	-13.01	29.52	7.40	38.70	34.63	108	150 Average	VERTICAL
2	11396.84	54.17	74.00	-19.83	42.70	7.40	38.70	34.63	108	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11485.31	53.63	74.00	-20.37	42.21	7.34	38.70	34.62	168	150 Peak	HORIZONTAL
2	11486.41	40.72	54.00	-13.28	29.30	7.34	38.70	34.62	168	150 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11481.55	40.19	54.00	-13.81	28.77	7.34	38.70	34.62	97	150 Average	VERTICAL
2	11495.36	53.36	74.00	-20.64	41.94	7.34	38.70	34.62	97	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11562.71	42.03	54.00	-11.97	30.57	7.39	38.71	34.64	280	150 Average	HORIZONTAL
2	11570.35	54.80	74.00	-19.20	43.33	7.41	38.71	34.65	280	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11568.90	41.72	54.00	-12.28	30.24	7.41	38.71	34.64	232	150 Average	VERTICAL
2	11577.99	54.68	74.00	-19.32	43.21	7.41	38.71	34.65	232	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11640.04	42.23	54.00	-11.77	30.67	7.50	38.73	34.67	271	150	Average	HORIZONTAL
2	11656.02	54.58	74.00	-19.42	43.01	7.52	38.73	34.68	271	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11642.65	54.62	74.00	-19.38	43.06	7.50	38.73	34.67	311	150	Peak	VERTICAL
2	11652.75	41.07	54.00	-12.93	29.50	7.52	38.73	34.68	311	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15534.70	57.05	74.00	-16.95	43.75	9.76	38.16	34.62	185	150 Peak	HORIZONTAL
2	15535.17	44.39	54.00	-9.61	31.09	9.76	38.16	34.62	185	150 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15544.05	57.43	74.00	-16.57	44.09	9.77	38.19	34.62	226	150 Peak	VERTICAL
2	15544.40	44.05	54.00	-9.95	30.71	9.77	38.19	34.62	226	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15601.68	58.01	74.00	-15.99	44.60	9.81	38.29	34.69	205	150	Peak	HORIZONTAL
2	15609.12	44.54	54.00	-9.46	31.13	9.81	38.29	34.69	205	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15592.33	57.42	74.00	-16.58	44.03	9.80	38.26	34.67	157	150	Peak	VERTICAL
2	15608.16	44.20	54.00	-9.80	30.79	9.81	38.29	34.69	157	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15710.13	58.43	74.00	-15.57	44.87	9.87	38.47	34.78	198	150	Peak	HORIZONTAL
2	15717.16	45.89	54.00	-8.11	32.29	9.88	38.50	34.78	198	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15726.45	59.05	74.00	-14.95	45.47	9.88	38.50	34.80	255	150	Peak	VERTICAL
2	15729.61	45.58	54.00	-8.42	32.00	9.88	38.50	34.80	255	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15773.58	45.86	54.00	-8.14	32.16	9.92	38.60	34.82	84	150	Average	HORIZONTAL
2	15778.15	58.69	74.00	-15.31	45.01	9.92	38.60	34.84	84	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15770.36	45.55	54.00	-8.45	31.85	9.92	38.60	34.82	158	150	Average	VERTICAL
2	15786.08	58.93	74.00	-15.07	45.21	9.93	38.63	34.84	158	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15891.23	45.55	54.00	-8.45	31.68	9.99	38.81	34.93	168	150 Average	HORIZONTAL
2	15904.20	58.34	74.00	-15.66	44.43	10.00	38.84	34.93	168	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	15893.03	58.53	74.00	-15.47	44.66	9.99	38.81	34.93	135	150 Peak	VERTICAL
2	15901.42	45.56	54.00	-8.44	31.65	10.00	38.84	34.93	135	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15958.75	57.79	74.00	-16.21	43.81	10.04	38.94	35.00	252	150	Peak	HORIZONTAL
2	15961.19	45.17	54.00	-8.83	31.19	10.04	38.94	35.00	252	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15954.53	59.50	74.00	-14.50	45.50	10.04	38.94	34.98	200	150	Peak	VERTICAL
2	15963.53	44.98	54.00	-9.02	31.00	10.04	38.94	35.00	200	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11005.82	41.17	54.00	-12.83	29.44	7.69	38.70	34.66	242	150 Average	HORIZONTAL
2	11008.92	54.03	74.00	-19.97	42.30	7.69	38.70	34.66	242	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	10993.95	53.95	74.00	-20.05	42.21	7.70	38.70	34.66	289	150 Peak	VERTICAL
2	11009.96	40.84	54.00	-13.16	29.11	7.69	38.70	34.66	289	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11157.66	41.63	54.00	-12.37	30.00	7.58	38.70	34.65	250	150 Average	HORIZONTAL
2	11159.28	54.93	74.00	-19.07	43.30	7.58	38.70	34.65	250	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11161.71	55.42	74.00	-18.58	43.79	7.58	38.70	34.65	213	150 Peak	VERTICAL
2	11161.71	41.41	54.00	-12.59	29.78	7.58	38.70	34.65	213	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11398.93	41.14	54.00	-12.86	29.67	7.40	38.70	34.63	123	150 Average	HORIZONTAL
2	11401.65	54.67	74.00	-19.33	43.20	7.40	38.70	34.63	123	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11397.60	53.73	74.00	-20.27	42.26	7.40	38.70	34.63	188	150 Peak	VERTICAL
2	11404.08	40.80	54.00	-13.20	29.33	7.40	38.70	34.63	188	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11480.28	40.55	54.00	-13.45	29.12	7.35	38.70	34.62	278	150	Average	HORIZONTAL
2	11489.80	53.37	74.00	-20.63	41.95	7.34	38.70	34.62	278	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11483.14	40.20	54.00	-13.80	28.78	7.34	38.70	34.62	218	150	Average	VERTICAL
2	11495.24	53.30	74.00	-20.70	41.88	7.34	38.70	34.62	218	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11568.75	54.96	74.00	-19.04	43.48	7.41	38.71	34.64	279	150	Peak	HORIZONTAL
2	11571.07	41.84	54.00	-12.16	30.37	7.41	38.71	34.65	279	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11577.06	40.98	54.00	-13.02	29.51	7.41	38.71	34.65	339	150	Average	VERTICAL
2	11579.44	54.49	74.00	-19.51	43.02	7.41	38.71	34.65	339	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11640.42	55.20	74.00	-18.80	43.64	7.50	38.73	34.67	215	150 Peak	HORIZONTAL
2	11646.18	42.12	54.00	-11.88	30.56	7.50	38.73	34.67	215	150 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11642.97	54.43	74.00	-19.57	42.87	7.50	38.73	34.67	249	150 Peak	VERTICAL
2	11643.43	41.14	54.00	-12.86	29.58	7.50	38.73	34.67	249	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15563.48	45.31	54.00	-8.69	31.95	9.78	38.22	34.64	214	150	Average	HORIZONTAL
2	15566.72	58.71	74.00	-15.29	45.35	9.78	38.22	34.64	214	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15565.64	45.40	54.00	-8.60	32.04	9.78	38.22	34.64	257	150	Average	VERTICAL
2	15567.40	58.81	74.00	-15.19	45.45	9.78	38.22	34.64	257	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15683.32	57.77	74.00	-16.23	44.22	9.86	38.44	34.75	202	150	Peak	HORIZONTAL
2	15690.80	44.68	54.00	-9.32	31.13	9.86	38.44	34.75	202	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15696.36	44.56	54.00	-9.44	31.01	9.86	38.44	34.75	151	150	Average	VERTICAL
2	15698.84	57.57	74.00	-16.43	43.98	9.87	38.47	34.75	151	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15813.40	58.46	74.00	-15.54	44.73	9.94	38.66	34.87	197	150	Peak	HORIZONTAL
2	15814.24	45.67	54.00	-8.33	31.94	9.94	38.66	34.87	197	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15814.20	45.68	54.00	-8.32	31.95	9.94	38.66	34.87	148	150	Average	VERTICAL
2	15816.92	59.18	74.00	-14.82	45.41	9.95	38.69	34.87	148	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10611.68	53.07	74.00	-20.93	41.40	7.82	38.78	34.93	183	150	Peak	HORIZONTAL
2	10625.68	40.12	54.00	-13.88	28.46	7.81	38.78	34.93	183	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	10623.28	52.98	74.00	-21.02	41.32	7.81	38.78	34.93	110	150	Peak	VERTICAL
2	10625.68	40.32	54.00	-13.68	28.66	7.81	38.78	34.93	110	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	11012.40	53.24	74.00	-20.76	41.51	7.69	38.70	183	150	Peak	HORIZONTAL
2	11029.60	39.90	54.00	-14.10	28.18	7.68	38.70	183	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	11022.04	52.83	74.00	-21.17	41.11	7.68	38.70	136	150	Peak	VERTICAL
2	11026.48	39.94	54.00	-14.06	28.22	7.68	38.70	136	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11092.56	53.39	74.00	-20.61	41.71	7.63	38.70	34.65	168	150	Peak	HORIZONTAL
2	11106.92	39.63	54.00	-14.37	27.97	7.61	38.70	34.65	168	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11092.80	39.68	54.00	-14.32	28.00	7.63	38.70	34.65	228	150	Average	VERTICAL
2	11100.20	52.55	74.00	-21.45	40.87	7.63	38.70	34.65	228	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11333.36	40.33	54.00	-13.67	28.81	7.45	38.70	34.63	96	150	Average	HORIZONTAL
2	11342.32	54.54	74.00	-19.46	43.02	7.45	38.70	34.63	96	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11335.32	53.62	74.00	-20.38	42.10	7.45	38.70	34.63	142	150	Peak	VERTICAL
2	11342.80	40.46	54.00	-13.54	28.94	7.45	38.70	34.63	142	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11513.68	39.99	54.00	-14.01	28.58	7.33	38.70	34.62	180	150	Average	HORIZONTAL
2	11519.84	53.16	74.00	-20.84	41.74	7.35	38.70	34.63	180	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11512.76	40.09	54.00	-13.91	28.68	7.33	38.70	34.62	252	150	Average	VERTICAL
2	11514.04	53.13	74.00	-20.87	41.72	7.33	38.70	34.62	252	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11581.60	39.72	54.00	-14.28	28.25	7.41	38.71	34.65	188	150	Average	HORIZONTAL
2	11590.08	52.77	74.00	-21.23	41.27	7.43	38.72	34.65	188	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11582.76	54.32	74.00	-19.68	42.82	7.43	38.72	34.65	130	150	Peak	VERTICAL
2	11592.68	39.76	54.00	-14.24	28.26	7.43	38.72	34.65	130	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15622.56	44.77	54.00	-9.23	31.32	9.82	38.32	34.69	101	150	Average	HORIZONTAL
2	15623.60	57.51	74.00	-16.49	44.06	9.82	38.32	34.69	101	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15625.68	44.70	54.00	-9.30	31.27	9.82	38.32	34.71	140	150	Average	VERTICAL
2	15632.52	57.55	74.00	-16.45	44.08	9.83	38.35	34.71	140	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15873.60	59.10	74.00	-14.90	45.25	9.98	38.78	34.91	5	150	Peak	HORIZONTAL
2	15876.28	46.64	54.00	-7.36	32.79	9.98	38.78	34.91	5	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15868.08	59.63	74.00	-14.37	45.78	9.98	38.78	34.91	57	150	Peak	VERTICAL
2	15878.92	46.45	54.00	-7.55	32.60	9.98	38.78	34.91	57	150	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11065.40	53.22	74.00	-20.78	41.52	7.65	38.70	34.65	145	150	Peak	HORIZONTAL
2	11068.52	39.95	54.00	-14.05	28.25	7.65	38.70	34.65	145	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11064.00	40.21	54.00	-13.79	28.51	7.65	38.70	34.65	66	150	Average	VERTICAL
2	11068.52	52.97	74.00	-21.03	41.27	7.65	38.70	34.65	66	150	Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11215.04	40.13	54.00	-13.87	28.53	7.54	38.70	34.64	154	150 Average	HORIZONTAL
2	11221.08	53.33	74.00	-20.67	41.73	7.54	38.70	34.64	154	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11211.08	40.24	54.00	-13.76	28.64	7.54	38.70	34.64	193	150 Average	VERTICAL
2	11224.08	53.14	74.00	-20.86	41.54	7.54	38.70	34.64	193	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11544.04	53.40	74.00	-20.60	41.95	7.37	38.71	34.63	144	150	Peak	HORIZONTAL
2	11545.96	39.80	54.00	-14.20	28.36	7.37	38.71	34.64	144	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11546.48	40.12	54.00	-13.88	28.68	7.37	38.71	34.64	168	150	Average	VERTICAL
2	11559.40	53.24	74.00	-20.76	41.78	7.39	38.71	34.64	168	150	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11436.21	40.99	54.00	-13.01	29.54	7.38	38.70	34.63	130	150 Average	HORIZONTAL
2	11437.02	54.16	74.00	-19.84	42.71	7.38	38.70	34.63	130	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11430.62	40.74	54.00	-13.26	29.29	7.38	38.70	34.63	167	150 Average	VERTICAL
2	11446.05	53.61	74.00	-20.39	42.15	7.38	38.70	34.62	167	150 Peak	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11431.11	40.89	54.00	-13.11	29.44	7.38	38.70	34.63	269	150 Average	HORIZONTAL
2	11440.96	54.22	74.00	-19.78	42.77	7.38	38.70	34.63	269	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11430.91	53.64	74.00	-20.36	42.19	7.38	38.70	34.63	175	150 Peak	VERTICAL
2	11437.63	40.71	54.00	-13.29	29.26	7.38	38.70	34.63	175	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11417.32	40.25	54.00	-13.75	28.79	7.39	38.70	34.63	205	150 Average	HORIZONTAL
2	11424.80	53.70	74.00	-20.30	42.24	7.39	38.70	34.63	205	150 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11410.72	53.17	74.00	-20.83	41.70	7.40	38.70	34.63	145	150 Peak	VERTICAL
2	11414.44	40.33	54.00	-13.67	28.87	7.39	38.70	34.63	145	150 Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11370.88	53.99	74.00	-20.01	42.49	7.43	38.70	34.63	74	150	Peak	HORIZONTAL
2	11384.40	40.55	54.00	-13.45	29.06	7.42	38.70	34.63	74	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11376.44	40.35	54.00	-13.65	28.85	7.43	38.70	34.63	122	150	Average	VERTICAL
2	11378.64	53.26	74.00	-20.74	41.77	7.42	38.70	34.63	122	150	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1 MHz / 3 MHz for Peak

4.7.3. Test Procedures

The test procedure is the same as section 4.6.3.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5147.60	65.08	74.00	-8.92	60.44	5.84	33.27	34.47	4	292	Peak	VERTICAL
2	5150.00	51.58	54.00	-2.42	46.94	5.84	33.27	34.47	4	292	Average	VERTICAL
3	5172.80	101.45			96.79	5.83	33.30	34.47	4	292	Average	VERTICAL
4	5178.20	111.97			107.29	5.82	33.33	34.47	4	292	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5122.80	46.44	54.00	-7.56	41.83	5.84	33.24	34.47	360	287	Average	VERTICAL
2	5123.20	58.26	74.00	-15.74	53.65	5.84	33.24	34.47	360	287	Peak	VERTICAL
3	5194.00	100.80			96.10	5.81	33.36	34.47	360	287	Average	VERTICAL
4	5201.20	110.31			105.61	5.81	33.36	34.47	360	287	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5073.60	56.94	74.00	-17.06	52.39	5.87	33.15	34.47	126	271	Peak	VERTICAL
2	5087.20	45.45	54.00	-8.55	40.90	5.87	33.15	34.47	126	271	Average	VERTICAL
3	5232.80	101.15			96.41	5.79	33.42	34.47	126	271	Average	VERTICAL
4	5238.40	110.75			106.01	5.79	33.42	34.47	126	271	Peak	VERTICAL
5	5369.60	57.73	74.00	-16.27	52.81	5.73	33.66	34.47	126	271	Peak	VERTICAL
6	5394.40	45.93	54.00	-8.07	40.99	5.72	33.69	34.47	126	271	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5104.00	45.46	54.00	-8.54	40.89	5.86	33.18	34.47	126	266 Average	VERTICAL
2	5108.00	57.59	74.00	-16.41	53.00	5.85	33.21	34.47	126	266 Peak	VERTICAL
3	5257.60	101.64			96.88	5.78	33.45	34.47	126	266 Average	VERTICAL
4	5262.40	111.16			106.37	5.78	33.48	34.47	126	266 Peak	VERTICAL
5	5412.80	45.81	54.00	-8.19	40.83	5.70	33.75	34.47	126	266 Average	VERTICAL
6	5417.60	57.75	74.00	-16.25	52.77	5.70	33.75	34.47	126	266 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5292.80	101.64			96.81	5.76	33.54	34.47	330	273 Average	VERTICAL
2	5298.00	112.13			107.30	5.76	33.54	34.47	330	273 Peak	VERTICAL
3	5350.80	47.04	54.00	-6.96	42.15	5.73	33.63	34.47	330	273 Average	VERTICAL
4	5356.80	59.06	74.00	-14.94	54.17	5.73	33.63	34.47	330	273 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5322.80	111.16			106.31	5.75	33.57	34.47	330	277 Peak	VERTICAL
2	5326.40	101.85			97.00	5.75	33.57	34.47	330	277 Average	VERTICAL
3	5350.00	50.86	54.00	-3.14	45.97	5.73	33.63	34.47	330	277 Average	VERTICAL
4	5351.20	65.09	74.00	-8.91	60.20	5.73	33.63	34.47	330	277 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5425.60	49.52	54.00	-4.48	44.54	5.70	33.75	34.47	209	289	Average	VERTICAL
2	5458.00	62.35	74.00	-11.65	57.33	5.68	33.81	34.47	209	289	Peak	VERTICAL
3	5469.40	64.50	68.20	-3.70	59.45	5.68	33.84	34.47	209	289	Peak	VERTICAL
4	5492.80	101.91			96.84	5.67	33.87	34.47	209	289	Average	VERTICAL
5	5501.80	112.65			107.57	5.66	33.90	34.48	209	289	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5420.80	61.30	74.00	-12.70	56.32	5.70	33.75	34.47	213	291	Peak	VERTICAL
2	5423.20	50.81	54.00	-3.19	45.83	5.70	33.75	34.47	213	291	Average	VERTICAL
3	5470.00	56.76	68.20	-11.44	51.71	5.68	33.84	34.47	213	291	Peak	VERTICAL
4	5572.80	101.22			95.90	5.70	34.11	34.49	213	291	Average	VERTICAL
5	5576.80	110.62			105.30	5.70	34.11	34.49	213	291	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5698.00	111.74			106.01	5.77	34.47	34.51	333	269	Peak	VERTICAL
2	5701.20	100.09			94.30	5.78	34.52	34.51	333	269	Average	VERTICAL
3	5725.00	52.59	54.00	-1.41	46.74	5.79	34.57	34.51	333	269	Average	VERTICAL
4	5725.60	72.52	74.00	-1.48	66.67	5.79	34.57	34.51	333	269	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 / 1TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5523.90	61.24	68.20	-6.96	53.38	7.75	31.73	31.62	299	154	Peak	HORIZONTAL
2	5738.40	92.84			84.64	7.84	32.07	31.71	299	154	Average	HORIZONTAL
3	5743.90	102.71			94.49	7.83	32.10	31.71	299	154	Peak	HORIZONTAL
4	5944.10	61.68	68.20	-6.52	53.08	7.98	32.42	31.80	299	154	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5587.00	60.40	68.20	-7.80	52.36	7.85	31.83	31.64	100	302	Peak	VERTICAL
2	5777.80	101.73			93.48	7.82	32.15	31.72	100	302	Average	VERTICAL
3	5783.80	110.96			102.72	7.82	32.15	31.73	100	302	Peak	VERTICAL
4	5936.20	61.65	68.20	-6.55	53.09	7.96	32.39	31.79	100	302	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5587.40	60.54	68.20	-7.66	52.50	7.85	31.83	31.64	102	353	Peak	VERTICAL
2	5831.00	102.26			93.92	7.86	32.23	31.75	102	353	Average	VERTICAL
3	5832.20	111.82			103.48	7.86	32.23	31.75	102	353	Peak	VERTICAL
4	6065.00	61.61	68.20	-6.59	52.63	8.12	32.73	31.87	102	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.40	60.46	74.00	-13.54	55.82	5.84	33.27	34.47	126	262	Peak	VERTICAL
2	5150.00	48.26	54.00	-5.74	43.62	5.84	33.27	34.47	126	262	Average	VERTICAL
3	5172.80	99.33			94.67	5.83	33.30	34.47	126	262	Average	VERTICAL
4	5177.20	108.99			104.31	5.82	33.33	34.47	126	262	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5118.80	56.98	74.00	-17.02	52.39	5.85	33.21	34.47	332	284	Peak	VERTICAL
2	5118.80	44.84	54.00	-9.16	40.25	5.85	33.21	34.47	332	284	Average	VERTICAL
3	5202.80	109.40			104.70	5.81	33.36	34.47	332	284	Peak	VERTICAL
4	5205.60	99.71			95.01	5.81	33.36	34.47	332	284	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5076.00	44.25	54.00	-9.75	39.70	5.87	33.15	34.47	332	285	Average	VERTICAL
2	5081.60	57.38	74.00	-16.62	52.83	5.87	33.15	34.47	332	285	Peak	VERTICAL
3	5236.80	109.93			105.19	5.79	33.42	34.47	332	285	Peak	VERTICAL
4	5238.40	99.91			95.17	5.79	33.42	34.47	332	285	Average	VERTICAL
5	5399.20	45.62	54.00	-8.38	40.66	5.71	33.72	34.47	332	285	Average	VERTICAL
6	5439.20	57.36	74.00	-16.64	52.36	5.69	33.78	34.47	332	285	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5108.00	44.38	54.00	-9.62	39.79	5.85	33.21	34.47	333	272 Average	VERTICAL
2	5142.40	56.55	74.00	-17.45	51.91	5.84	33.27	34.47	333	272 Peak	VERTICAL
3	5252.80	99.92			95.16	5.78	33.45	34.47	333	272 Average	VERTICAL
4	5257.60	109.13			104.37	5.78	33.45	34.47	333	272 Peak	VERTICAL
5	5400.80	57.61	74.00	-16.39	52.65	5.71	33.72	34.47	333	272 Peak	VERTICAL
6	5413.60	45.43	54.00	-8.57	40.45	5.70	33.75	34.47	333	272 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5306.40	109.74			104.91	5.76	33.54	34.47	332	261 Peak	VERTICAL
2	5306.40	100.13			95.30	5.76	33.54	34.47	332	261 Average	VERTICAL
3	5359.20	46.74	54.00	-7.26	41.85	5.73	33.63	34.47	332	261 Average	VERTICAL
4	5373.60	59.04	74.00	-14.96	54.12	5.73	33.66	34.47	332	261 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5323.00	109.93			105.08	5.75	33.57	34.47	332	274 Peak	VERTICAL
2	5326.40	100.13			95.28	5.75	33.57	34.47	332	274 Average	VERTICAL
3	5350.00	49.24	54.00	-4.76	44.35	5.73	33.63	34.47	332	274 Average	VERTICAL
4	5350.40	62.63	74.00	-11.37	57.74	5.73	33.63	34.47	332	274 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 100

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5412.80	61.78	74.00	-12.22	56.80	5.70	33.75	34.47	208	285 Peak	VERTICAL
2	5428.00	48.71	54.00	-5.29	43.73	5.70	33.75	34.47	208	285 Average	VERTICAL
3	5468.00	65.40	68.20	-2.80	60.35	5.68	33.84	34.47	208	285 Peak	VERTICAL
4	5494.00	100.99			95.92	5.67	33.87	34.47	208	285 Average	VERTICAL
5	5501.60	110.94			105.86	5.66	33.90	34.48	208	285 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5426.40	61.03	74.00	-12.97	56.05	5.70	33.75	34.47	209	293 Peak	VERTICAL
2	5426.40	50.40	54.00	-3.60	45.42	5.70	33.75	34.47	209	293 Average	VERTICAL
3	5466.80	56.96	68.20	-11.24	51.91	5.68	33.84	34.47	209	293 Peak	VERTICAL
4	5574.40	99.87			94.55	5.70	34.11	34.49	209	293 Average	VERTICAL
5	5586.40	109.56			104.18	5.71	34.16	34.49	209	293 Peak	VERTICAL
6	5743.20	58.34	68.20	-9.86	52.44	5.80	34.62	34.52	209	293 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5706.20	98.40			92.61	5.78	34.52	34.51	332	268 Average	VERTICAL
2	5707.60	108.79			103.00	5.78	34.52	34.51	332	268 Peak	VERTICAL
3	5725.00	70.74	74.00	-3.26	64.89	5.79	34.57	34.51	332	268 Peak	VERTICAL
4	5725.00	52.93	54.00	-1.07	47.08	5.79	34.57	34.51	332	268 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 / 1TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5583.30	61.05	68.20	-7.15	53.01	7.85	31.83	31.64	296	159	Peak	HORIZONTAL
2	5739.50	92.51			84.29	7.83	32.10	31.71	296	159	Average	HORIZONTAL
3	5739.50	102.56			94.34	7.83	32.10	31.71	296	159	Peak	HORIZONTAL
4	5947.40	60.88	68.20	-7.32	52.28	7.98	32.42	31.80	296	159	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5606.20	60.60	68.20	-7.60	52.52	7.87	31.86	31.65	102	300	Peak	VERTICAL
2	5777.80	101.81			93.56	7.82	32.15	31.72	102	300	Average	VERTICAL
3	5787.40	111.52			103.28	7.82	32.15	31.73	102	300	Peak	VERTICAL
4	5962.60	61.42	68.20	-6.78	52.78	7.99	32.45	31.80	102	300	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5619.80	60.19	68.20	-8.01	52.09	7.87	31.89	31.66	296	160	Peak	HORIZONTAL
2	5827.40	94.01			85.67	7.86	32.23	31.75	296	160	Average	HORIZONTAL
3	5828.60	103.50			95.16	7.86	32.23	31.75	296	160	Peak	HORIZONTAL
4	5927.00	61.44	68.20	-6.76	52.88	7.96	32.39	31.79	296	160	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5150.00	70.47	74.00	-3.53	65.83	5.84	33.27	34.47	2	288 Peak	VERTICAL
2	5150.00	52.98	54.00	-1.02	48.34	5.84	33.27	34.47	2	288 Average	VERTICAL
3	5194.00	105.93			101.23	5.81	33.36	34.47	2	288 Peak	VERTICAL
4	5197.20	94.03			89.33	5.81	33.36	34.47	2	288 Average	VERTICAL
5	5350.00	47.03	54.00	-6.97	42.14	5.73	33.63	34.47	2	288 Average	VERTICAL
6	5357.20	60.15	74.00	-13.85	55.26	5.73	33.63	34.47	2	288 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5083.60	48.88	54.00	-5.12	44.33	5.87	33.15	34.47	124	260 Average	VERTICAL
2	5146.80	61.36	74.00	-12.64	56.72	5.84	33.27	34.47	124	260 Peak	VERTICAL
3	5223.60	109.16			104.44	5.80	33.39	34.47	124	260 Peak	VERTICAL
4	5244.40	97.56			92.80	5.78	33.45	34.47	124	260 Average	VERTICAL
5	5376.40	49.62	54.00	-4.38	44.70	5.73	33.66	34.47	124	260 Average	VERTICAL
6	5398.80	62.50	74.00	-11.50	57.54	5.71	33.72	34.47	124	260 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5122.00	61.41	74.00	-12.59	56.82	5.85	33.21	34.47	124	265 Peak	VERTICAL
2	5123.60	49.13	54.00	-4.87	44.52	5.84	33.24	34.47	124	265 Average	VERTICAL
3	5254.80	109.13			104.37	5.78	33.45	34.47	124	265 Peak	VERTICAL
4	5256.40	97.97			93.21	5.78	33.45	34.47	124	265 Average	VERTICAL
5	5415.60	49.44	54.00	-4.56	44.46	5.70	33.75	34.47	124	265 Average	VERTICAL
6	5418.80	62.05	74.00	-11.95	57.07	5.70	33.75	34.47	124	265 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5132.40	59.49	74.00	-14.51	54.88	5.84	33.24	34.47	328	258 Peak	VERTICAL
2	5143.60	46.52	54.00	-7.48	41.88	5.84	33.27	34.47	328	258 Average	VERTICAL
3	5318.00	105.56			100.71	5.75	33.57	34.47	328	258 Peak	VERTICAL
4	5324.40	93.45			88.60	5.75	33.57	34.47	328	258 Average	VERTICAL
5	5350.00	52.80	54.00	-1.20	47.91	5.73	33.63	34.47	328	258 Average	VERTICAL
6	5355.60	68.54	74.00	-5.46	63.65	5.73	33.63	34.47	328	258 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 102

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	deg	cm	
1	5457.20	63.14	74.00	-10.86	58.12	5.68	33.81	34.47	208	288 Peak	VERTICAL
2	5460.00	49.16	54.00	-4.84	44.14	5.68	33.81	34.47	208	288 Average	VERTICAL
3	5469.20	67.07	68.20	-1.13	62.02	5.68	33.84	34.47	208	288 Peak	VERTICAL
4	5494.80	94.40			89.33	5.67	33.87	34.47	208	288 Average	VERTICAL
5	5502.00	106.18			101.10	5.66	33.90	34.48	208	288 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	deg	cm	
1	5393.20	62.50	74.00	-11.50	57.56	5.72	33.69	34.47	208	294 Peak	VERTICAL
2	5402.80	50.82	54.00	-3.18	45.86	5.71	33.72	34.47	208	294 Average	VERTICAL
3	5469.20	63.27	68.20	-4.93	58.22	5.68	33.84	34.47	208	294 Peak	VERTICAL
4	5544.40	98.28			93.08	5.68	34.00	34.48	208	294 Average	VERTICAL
5	5558.00	110.54			105.28	5.69	34.06	34.49	208	294 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	deg	cm	
1	5430.00	59.61	74.00	-14.39	54.61	5.69	33.78	34.47	26	273 Peak	VERTICAL
2	5443.20	47.11	54.00	-6.89	42.11	5.69	33.78	34.47	26	273 Average	VERTICAL
3	5464.00	59.67	68.20	-8.53	54.62	5.68	33.84	34.47	26	273 Peak	VERTICAL
4	5679.60	110.08			104.41	5.76	34.42	34.51	26	273 Peak	VERTICAL
5	5683.20	97.65			91.98	5.76	34.42	34.51	26	273 Average	VERTICAL
6	5731.40	65.51	68.20	-2.69	59.67	5.79	34.57	34.52	26	273 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 / 1TX

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5594.40	61.07	68.20	-7.13	52.98	7.87	31.86	31.64	101	301	Peak	VERTICAL
2	5761.60	105.91			97.66	7.83	32.13	31.71	101	301	Peak	VERTICAL
3	5772.60	94.81			86.56	7.82	32.15	31.72	101	301	Average	VERTICAL
4	5936.50	60.55	68.20	-7.65	51.99	7.96	32.39	31.79	101	301	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5636.60	61.76	68.20	-6.44	53.66	7.86	31.91	31.67	103	302	Peak	VERTICAL
2	5779.40	108.09			99.84	7.82	32.15	31.72	103	302	Peak	VERTICAL
3	5780.60	98.04			89.79	7.82	32.15	31.72	103	302	Average	VERTICAL
4	5925.80	61.65	68.20	-6.55	53.09	7.96	32.39	31.79	103	302	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5145.00	65.46	74.00	-8.54	60.82	5.84	33.27	34.47	122	250 Peak	VERTICAL
2	5150.00	52.85	54.00	-1.15	48.21	5.84	33.27	34.47	122	250 Average	VERTICAL
3	5238.00	102.03			97.29	5.79	33.42	34.47	122	250 Peak	VERTICAL
4	5242.00	91.93			87.17	5.78	33.45	34.47	122	250 Average	VERTICAL
5	5358.00	48.72	54.00	-5.28	43.83	5.73	33.63	34.47	122	250 Average	VERTICAL
6	5422.00	60.48	74.00	-13.52	55.50	5.70	33.75	34.47	122	250 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5133.20	59.40	74.00	-14.60	54.79	5.84	33.24	34.47	329	250 Peak	VERTICAL
2	5142.80	47.00	54.00	-7.00	42.36	5.84	33.27	34.47	329	250 Average	VERTICAL
3	5281.20	100.66			95.85	5.77	33.51	34.47	329	250 Peak	VERTICAL
4	5318.80	90.52			85.67	5.75	33.57	34.47	329	250 Average	VERTICAL
5	5352.40	52.82	54.00	-1.18	47.93	5.73	33.63	34.47	329	250 Average	VERTICAL
6	5358.00	63.72	74.00	-10.28	58.83	5.73	33.63	34.47	329	250 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 106

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5456.00	65.26	74.00	-8.74	60.24	5.68	33.81	34.47	210	292 Peak	VERTICAL
2	5460.00	52.93	54.00	-1.07	47.91	5.68	33.81	34.47	210	292 Average	VERTICAL
3	5464.00	66.42	68.20	-1.78	61.37	5.68	33.84	34.47	210	292 Peak	VERTICAL
4	5501.20	92.24			87.16	5.66	33.90	34.48	210	292 Average	VERTICAL
5	5554.00	101.05			95.79	5.69	34.06	34.49	210	292 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5457.20	60.69	74.00	-13.31	55.67	5.68	33.81	34.47	27	250 Peak	VERTICAL
2	5460.00	48.91	54.00	-5.09	43.89	5.68	33.81	34.47	27	250 Average	VERTICAL
3	5467.60	60.57	68.20	-7.63	55.52	5.68	33.84	34.47	27	250 Peak	VERTICAL
4	5604.40	104.55			99.12	5.72	34.21	34.50	27	250 Peak	VERTICAL
5	5638.00	94.50			88.95	5.74	34.31	34.50	27	250 Average	VERTICAL
6	5759.60	62.85	68.20	-5.35	56.88	5.82	34.68	34.53	27	250 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5636.00	61.64	68.20	-6.56	53.54	7.86	31.91	31.67	100	298 Peak	VERTICAL
2	5778.00	99.90			91.65	7.82	32.15	31.72	100	298 Peak	VERTICAL
3	5784.00	89.88			81.64	7.82	32.15	31.73	100	298 Average	VERTICAL
4	5932.00	60.57	68.20	-7.63	52.01	7.96	32.39	31.79	100	298 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5717.60	100.93			95.08	5.79	34.57	34.51	332	269 Average	VERTICAL
2	5721.60	111.65			105.80	5.79	34.57	34.51	332	269 Peak	VERTICAL
3	5876.80	61.36	68.20	-6.84	54.97	5.89	35.04	34.54	332	269 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5715.20	99.84			94.05	5.78	34.52	34.51	333	270 Average	VERTICAL
2	5717.60	110.62			104.77	5.79	34.57	34.51	333	270 Peak	VERTICAL
3	5876.00	61.05	68.20	-7.15	54.66	5.89	35.04	34.54	333	270 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 142

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5431.60	59.81	74.00	-14.19	54.81	5.69	33.78	34.47	127	100 Peak	HORIZONTAL
2	5460.00	47.15	54.00	-6.85	42.13	5.68	33.81	34.47	127	100 Average	HORIZONTAL
3	5465.20	60.24	68.20	-7.96	55.19	5.68	33.84	34.47	127	100 Peak	HORIZONTAL
4	5705.20	92.01			86.22	5.78	34.52	34.51	127	100 Average	HORIZONTAL
5	5717.20	104.06			98.27	5.78	34.52	34.51	127	100 Peak	HORIZONTAL
6	5868.40	60.66	68.20	-7.54	54.33	5.88	34.99	34.54	127	100 Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 / 1TX
Test Date	Oct. 10, 2015		

Channel 138

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5674.40	99.41			93.74	5.76	34.42	34.51	126	100	Peak	HORIZONTAL
2	5679.20	89.35			83.68	5.76	34.42	34.51	126	100	Average	HORIZONTAL
3	5831.00	60.69	68.20	-7.51	54.48	5.86	34.88	34.53	126	100	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5143.20	64.69	74.00	-9.31	60.05	5.84	33.27	34.47	358	262	Peak	VERTICAL
2	5149.20	51.61	54.00	-2.39	46.97	5.84	33.27	34.47	358	262	Average	VERTICAL
3	5173.60	106.10			101.42	5.82	33.33	34.47	358	262	Average	VERTICAL
4	5174.00	115.62			110.94	5.82	33.33	34.47	358	262	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5126.20	61.10	74.00	-12.90	56.49	5.84	33.24	34.47	321	271	Peak	VERTICAL
2	5127.40	47.94	54.00	-6.06	43.33	5.84	33.24	34.47	321	271	Average	VERTICAL
3	5202.40	115.82			111.12	5.81	33.36	34.47	321	271	Peak	VERTICAL
4	5207.20	106.40			101.70	5.81	33.36	34.47	321	271	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5082.40	48.01	54.00	-5.99	43.46	5.87	33.15	34.47	359	249	Average	VERTICAL
2	5100.80	58.94	74.00	-15.06	54.37	5.86	33.18	34.47	359	249	Peak	VERTICAL
3	5233.60	115.13			110.39	5.79	33.42	34.47	359	249	Peak	VERTICAL
4	5233.60	105.46			100.72	5.79	33.42	34.47	359	249	Average	VERTICAL
5	5381.60	59.92	74.00	-14.08	54.98	5.72	33.69	34.47	359	249	Peak	VERTICAL
6	5393.60	48.17	54.00	-5.83	43.23	5.72	33.69	34.47	359	249	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5141.20	58.13	74.00	-15.87	53.49	5.84	33.27	34.47	328	269 Peak	VERTICAL
2	5149.60	46.24	54.00	-7.76	41.60	5.84	33.27	34.47	328	269 Average	VERTICAL
3	5255.80	115.36			110.60	5.78	33.45	34.47	328	269 Peak	VERTICAL
4	5266.60	106.31			101.52	5.78	33.48	34.47	328	269 Average	VERTICAL
5	5356.00	47.62	54.00	-6.38	42.73	5.73	33.63	34.47	328	269 Average	VERTICAL
6	5383.00	59.97	74.00	-14.03	55.03	5.72	33.69	34.47	328	269 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5296.40	115.95			111.12	5.76	33.54	34.47	332	297 Peak	VERTICAL
2	5306.60	106.45			101.62	5.76	33.54	34.47	332	297 Average	VERTICAL
3	5354.00	61.37	74.00	-12.63	56.48	5.73	33.63	34.47	332	297 Peak	VERTICAL
4	5376.80	48.70	54.00	-5.30	43.78	5.73	33.66	34.47	332	297 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5316.40	116.18			111.33	5.75	33.57	34.47	330	265 Peak	VERTICAL
2	5326.40	105.98			101.13	5.75	33.57	34.47	330	265 Average	VERTICAL
3	5350.80	52.30	54.00	-1.70	47.41	5.73	33.63	34.47	330	265 Average	VERTICAL
4	5354.40	65.49	74.00	-8.51	60.60	5.73	33.63	34.47	330	265 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 100

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5334.40	64.37	74.00	-9.63	59.50	5.74	33.60	34.47	210	263 Peak	VERTICAL
2	5344.00	52.94	54.00	-1.06	48.05	5.73	33.63	34.47	210	263 Average	VERTICAL
3	5470.00	64.66	74.00	-9.34	59.61	5.68	33.84	34.47	210	263 Peak	VERTICAL
4	5470.00	51.38	54.00	-2.62	46.33	5.68	33.84	34.47	210	263 Average	VERTICAL
5	5496.40	114.18			109.11	5.67	33.87	34.47	210	263 Peak	VERTICAL
6	5506.00	104.21			99.13	5.66	33.90	34.48	210	263 Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5416.80	63.52	74.00	-10.48	58.54	5.70	33.75	34.47	324	253 Peak	VERTICAL
2	5426.40	52.99	54.00	-1.01	48.01	5.70	33.75	34.47	324	253 Average	VERTICAL
3	5468.80	46.11	54.00	-7.89	41.06	5.68	33.84	34.47	324	253 Average	VERTICAL
4	5470.00	59.11	74.00	-14.89	54.06	5.68	33.84	34.47	324	253 Peak	VERTICAL
5	5587.20	115.44			110.06	5.71	34.16	34.49	324	253 Peak	VERTICAL
6	5587.20	104.89			99.51	5.71	34.16	34.49	324	253 Average	VERTICAL
7	5743.20	63.51	74.00	-10.49	57.61	5.80	34.62	34.52	324	253 Peak	VERTICAL
8	5743.20	52.15	54.00	-1.85	46.25	5.80	34.62	34.52	324	253 Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5455.20	62.67	74.00	-11.33	57.65	5.68	33.81	34.47	329	277 Peak	VERTICAL
2	5455.20	52.05	54.00	-1.95	47.03	5.68	33.81	34.47	329	277 Average	VERTICAL
3	5465.20	52.11	54.00	-1.89	47.06	5.68	33.84	34.47	329	277 Average	VERTICAL
4	5466.40	63.70	74.00	-10.30	58.65	5.68	33.84	34.47	329	277 Peak	VERTICAL
5	5696.40	114.07			108.34	5.77	34.47	34.51	329	277 Peak	VERTICAL
6	5707.20	103.91			98.12	5.78	34.52	34.51	329	277 Average	VERTICAL
7	5725.00	72.82	74.00	-1.18	66.97	5.79	34.57	34.51	329	277 Peak	VERTICAL
8	5726.40	52.98	54.00	-1.02	47.13	5.79	34.57	34.51	329	277 Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5605.92	61.58	68.20	-6.62	53.50	7.87	31.86	31.65	100	84	Peak	VERTICAL
2	5741.60	99.97			91.75	7.83	32.10	31.71	100	84	Average	VERTICAL
3	5741.60	108.88			100.66	7.83	32.10	31.71	100	84	Peak	VERTICAL
4	6011.68	61.01	68.20	-7.19	52.22	8.05	32.56	31.82	100	84	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.60	61.00	68.20	-7.20	53.04	7.80	31.78	31.62	104	222	Peak	VERTICAL
2	5788.96	102.99			94.72	7.82	32.18	31.73	104	222	Average	VERTICAL
3	5790.24	112.35			104.08	7.82	32.18	31.73	104	222	Peak	VERTICAL
4	5942.56	61.45	68.20	-6.75	52.85	7.98	32.42	31.80	104	222	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5598.24	60.87	68.20	-7.33	52.79	7.87	31.86	31.65	104	222	Peak	VERTICAL
2	5819.68	102.71			94.40	7.84	32.21	31.74	104	222	Average	VERTICAL
3	5819.68	112.77			104.46	7.84	32.21	31.74	104	222	Peak	VERTICAL
4	6023.20	61.39	68.20	-6.81	52.62	8.05	32.56	31.84	104	222	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5149.60	68.50	74.00	-5.50	63.86	5.84	33.27	34.47	3	298 Peak	VERTICAL
2	5149.60	52.55	54.00	-1.45	47.91	5.84	33.27	34.47	3	298 Average	VERTICAL
3	5174.60	115.05			110.37	5.82	33.33	34.47	3	298 Peak	VERTICAL
4	5177.20	105.13			100.45	5.82	33.33	34.47	3	298 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5128.40	47.38	54.00	-6.62	42.77	5.84	33.24	34.47	321	285 Average	VERTICAL
2	5144.00	60.31	74.00	-13.69	55.67	5.84	33.27	34.47	321	285 Peak	VERTICAL
3	5196.40	115.20			110.50	5.81	33.36	34.47	321	285 Peak	VERTICAL
4	5201.20	105.12			100.42	5.81	33.36	34.47	321	285 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5126.60	58.76	74.00	-15.24	54.15	5.84	33.24	34.47	330	284 Peak	VERTICAL
2	5150.00	46.52	54.00	-7.48	41.88	5.84	33.27	34.47	330	284 Average	VERTICAL
3	5233.40	105.30			100.56	5.79	33.42	34.47	330	284 Average	VERTICAL
4	5235.80	114.50			109.76	5.79	33.42	34.47	330	284 Peak	VERTICAL
5	5363.60	46.79	54.00	-7.21	41.87	5.73	33.66	34.47	330	284 Average	VERTICAL
6	5382.80	59.45	74.00	-14.55	54.51	5.72	33.69	34.47	330	284 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5145.40	46.14	54.00	-7.86	41.50	5.84	33.27	34.47	332	280 Average	VERTICAL
2	5145.80	58.32	74.00	-15.68	53.68	5.84	33.27	34.47	332	280 Peak	VERTICAL
3	5252.80	105.32			100.56	5.78	33.45	34.47	332	280 Average	VERTICAL
4	5263.00	114.46			109.67	5.78	33.48	34.47	332	280 Peak	VERTICAL
5	5350.00	47.27	54.00	-6.73	42.38	5.73	33.63	34.47	332	280 Average	VERTICAL
6	5374.00	60.05	74.00	-13.95	55.13	5.73	33.66	34.47	332	280 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5293.40	105.23			100.40	5.76	33.54	34.47	332	298 Average	VERTICAL
2	5301.20	114.60			109.77	5.76	33.54	34.47	332	298 Peak	VERTICAL
3	5363.00	60.50	74.00	-13.50	55.58	5.73	33.66	34.47	332	298 Peak	VERTICAL
4	5373.20	48.60	54.00	-5.40	43.68	5.73	33.66	34.47	332	298 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5312.80	105.92			101.07	5.75	33.57	34.47	336	290 Average	VERTICAL
2	5317.60	115.11			110.26	5.75	33.57	34.47	336	290 Peak	VERTICAL
3	5350.40	52.92	54.00	-1.08	48.03	5.73	33.63	34.47	336	290 Average	VERTICAL
4	5352.80	66.24	74.00	-7.76	61.35	5.73	33.63	34.47	336	290 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5347.60	63.02	74.00	-10.98	58.13	5.73	33.63	34.47	210	271	Peak	VERTICAL
2	5347.60	52.78	54.00	-1.22	47.89	5.73	33.63	34.47	210	271	Average	VERTICAL
3	5470.00	64.91	74.00	-9.09	59.86	5.68	33.84	34.47	210	271	Peak	VERTICAL
4	5470.00	51.93	54.00	-2.07	46.88	5.68	33.84	34.47	210	271	Average	VERTICAL
5	5492.80	104.21			99.14	5.67	33.87	34.47	210	271	Average	VERTICAL
6	5495.20	113.42			108.35	5.67	33.87	34.47	210	271	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5415.60	63.08	74.00	-10.92	58.10	5.70	33.75	34.47	324	257	Peak	VERTICAL
2	5427.60	52.88	54.00	-1.12	47.90	5.70	33.75	34.47	324	257	Average	VERTICAL
3	5464.00	58.98	74.00	-15.02	53.93	5.68	33.84	34.47	324	257	Peak	VERTICAL
4	5470.00	46.66	54.00	-7.34	41.61	5.68	33.84	34.47	324	257	Average	VERTICAL
5	5572.80	104.70			99.38	5.70	34.11	34.49	324	257	Average	VERTICAL
6	5581.20	114.04			108.72	5.70	34.11	34.49	324	257	Peak	VERTICAL
7	5739.60	51.71	54.00	-2.29	45.81	5.80	34.62	34.52	324	257	Average	VERTICAL
8	5744.40	63.09	74.00	-10.91	57.19	5.80	34.62	34.52	324	257	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5454.00	61.32	74.00	-12.68	56.30	5.68	33.81	34.47	335	276	Peak	VERTICAL
2	5455.20	50.08	54.00	-3.92	45.06	5.68	33.81	34.47	335	276	Average	VERTICAL
3	5467.60	50.19	54.00	-3.81	45.14	5.68	33.84	34.47	335	276	Average	VERTICAL
4	5468.80	61.52	74.00	-12.48	56.47	5.68	33.84	34.47	335	276	Peak	VERTICAL
5	5692.80	101.00			95.27	5.77	34.47	34.51	335	276	Average	VERTICAL
6	5695.20	111.11			105.38	5.77	34.47	34.51	335	276	Peak	VERTICAL
7	5725.00	68.78	74.00	-5.22	62.93	5.79	34.57	34.51	335	276	Peak	VERTICAL
8	5725.00	52.84	54.00	-1.16	46.99	5.79	34.57	34.51	335	276	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5577.76	60.65	68.20	-7.55	52.60	7.85	31.83	31.63	100	244	Peak	HORIZONTAL
2	5742.88	102.16			93.94	7.83	32.10	31.71	100	244	Peak	HORIZONTAL
3	5751.84	93.11			84.89	7.83	32.10	31.71	100	244	Average	HORIZONTAL
4	6061.60	62.09	68.20	-6.11	53.19	8.10	32.67	31.87	100	244	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5628.96	60.78	68.20	-7.42	52.67	7.86	31.91	31.66	104	221	Peak	VERTICAL
2	5780.00	111.91			103.66	7.82	32.15	31.72	104	221	Peak	VERTICAL
3	5782.56	102.38			94.13	7.82	32.15	31.72	104	221	Average	VERTICAL
4	6030.88	62.10	68.20	-6.10	53.25	8.08	32.61	31.84	104	221	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5589.28	61.22	68.20	-6.98	53.18	7.85	31.83	31.64	103	222	Peak	VERTICAL
2	5827.36	101.72			93.38	7.86	32.23	31.75	103	222	Average	VERTICAL
3	5827.36	111.80			103.46	7.86	32.23	31.75	103	222	Peak	VERTICAL
4	5977.12	61.32	68.20	-6.88	52.65	8.01	32.47	31.81	103	222	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5148.40	68.36	74.00	-5.64	63.72	5.84	33.27	34.47	333	287 Peak	VERTICAL
2	5150.00	52.91	54.00	-1.09	48.27	5.84	33.27	34.47	333	287 Average	VERTICAL
3	5183.20	106.56			101.88	5.82	33.33	34.47	333	287 Peak	VERTICAL
4	5203.20	97.03			92.33	5.81	33.36	34.47	333	287 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5086.00	48.54	54.00	-5.46	43.99	5.87	33.15	34.47	323	298 Average	VERTICAL
2	5147.60	60.00	74.00	-14.00	55.36	5.84	33.27	34.47	323	298 Peak	VERTICAL
3	5215.60	109.61			104.89	5.80	33.39	34.47	323	298 Peak	VERTICAL
4	5216.40	100.60			95.88	5.80	33.39	34.47	323	298 Average	VERTICAL
5	5374.00	58.85	74.00	-15.15	53.93	5.73	33.66	34.47	323	298 Peak	VERTICAL
6	5378.80	47.52	54.00	-6.48	42.58	5.72	33.69	34.47	323	298 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5105.20	60.46	74.00	-13.54	55.89	5.86	33.18	34.47	334	283 Peak	VERTICAL
2	5125.20	49.31	54.00	-4.69	44.70	5.84	33.24	34.47	334	283 Average	VERTICAL
3	5255.60	109.68			104.92	5.78	33.45	34.47	334	283 Peak	VERTICAL
4	5255.60	100.50			95.74	5.78	33.45	34.47	334	283 Average	VERTICAL
5	5415.60	61.09	74.00	-12.91	56.11	5.70	33.75	34.47	334	283 Peak	VERTICAL
6	5415.60	50.30	54.00	-3.70	45.32	5.70	33.75	34.47	334	283 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5293.20	95.96			91.13	5.76	33.54	34.47	334	279 Average	VERTICAL
2	5305.60	105.55			100.72	5.76	33.54	34.47	334	279 Peak	VERTICAL
3	5350.40	52.97	54.00	-1.03	48.08	5.73	33.63	34.47	334	279 Average	VERTICAL
4	5353.60	65.57	74.00	-8.43	60.68	5.73	33.63	34.47	334	279 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 102

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5460.00	66.76	74.00	-7.24	61.74	5.68	33.81	34.47	207	290 Peak	VERTICAL
2	5460.00	48.74	54.00	-5.26	43.72	5.68	33.81	34.47	207	290 Average	VERTICAL
3	5470.00	67.09	68.20	-1.11	62.04	5.68	33.84	34.47	207	290 Peak	VERTICAL
4	5493.20	96.44			91.37	5.67	33.87	34.47	207	290 Average	VERTICAL
5	5494.80	105.66			100.59	5.67	33.87	34.47	207	290 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5394.80	60.85	74.00	-13.15	55.89	5.71	33.72	34.47	303	290 Peak	VERTICAL
2	5405.20	49.02	54.00	-4.98	44.06	5.71	33.72	34.47	303	290 Average	VERTICAL
3	5465.20	59.96	68.20	-8.24	54.91	5.68	33.84	34.47	303	290 Peak	VERTICAL
4	5538.00	100.28			95.08	5.68	34.00	34.48	303	290 Average	VERTICAL
5	5543.60	110.41			105.21	5.68	34.00	34.48	303	290 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5440.80	58.86	74.00	-15.14	53.86	5.69	33.78	34.47	329	286 Peak	VERTICAL
2	5445.60	47.67	54.00	-6.33	42.65	5.68	33.81	34.47	329	286 Average	VERTICAL
3	5467.60	57.16	68.20	-11.04	52.11	5.68	33.84	34.47	329	286 Peak	VERTICAL
4	5664.00	109.08			103.47	5.75	34.37	34.51	329	286 Peak	VERTICAL
5	5664.00	99.40			93.79	5.75	34.37	34.51	329	286 Average	VERTICAL
6	5739.60	61.46	68.20	-6.74	55.56	5.80	34.62	34.52	329	286 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 / 2TX

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5611.04	61.76	68.20	-6.44	53.65	7.87	31.89	31.65	104	220	Peak	VERTICAL
2	5769.76	93.89			85.65	7.83	32.13	31.72	104	220	Average	VERTICAL
3	5769.76	103.98			95.74	7.83	32.13	31.72	104	220	Peak	VERTICAL
4	5977.12	61.40	68.20	-6.80	52.73	8.01	32.47	31.81	104	220	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5631.52	62.48	68.20	-5.72	54.37	7.86	31.91	31.66	104	219	Peak	VERTICAL
2	5780.00	108.26			100.01	7.82	32.15	31.72	104	219	Peak	VERTICAL
3	5782.56	98.27			90.02	7.82	32.15	31.72	104	219	Average	VERTICAL
4	5951.52	62.60	68.20	-5.60	54.00	7.98	32.42	31.80	104	219	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5140.40	66.85	74.00	-7.15	62.21	5.84	33.27	34.47	330	302 Peak	VERTICAL
2	5148.40	52.96	54.00	-1.04	48.32	5.84	33.27	34.47	330	302 Average	VERTICAL
3	5195.60	102.34			97.64	5.81	33.36	34.47	330	302 Peak	VERTICAL
4	5203.60	92.53			87.83	5.81	33.36	34.47	330	302 Average	VERTICAL
5	5363.60	46.02	54.00	-7.98	41.10	5.73	33.66	34.47	330	302 Average	VERTICAL
6	5388.40	58.24	74.00	-15.76	53.30	5.72	33.69	34.47	330	302 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5122.00	45.68	54.00	-8.32	41.09	5.85	33.21	34.47	333	270 Average	VERTICAL
2	5149.20	57.33	74.00	-16.67	52.69	5.84	33.27	34.47	333	270 Peak	VERTICAL
3	5278.00	100.84			96.03	5.77	33.51	34.47	333	270 Peak	VERTICAL
4	5278.00	91.88			87.07	5.77	33.51	34.47	333	270 Average	VERTICAL
5	5350.80	52.95	54.00	-1.05	48.06	5.73	33.63	34.47	333	270 Average	VERTICAL
6	5365.20	64.57	74.00	-9.43	59.65	5.73	33.66	34.47	333	270 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 106

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5460.00	63.42	74.00	-10.58	58.40	5.68	33.81	34.47	206	284 Peak	VERTICAL
2	5460.00	52.95	54.00	-1.05	47.93	5.68	33.81	34.47	206	284 Average	VERTICAL
3	5465.20	64.88	68.20	-3.32	59.83	5.68	33.84	34.47	206	284 Peak	VERTICAL
4	5518.00	91.78			86.64	5.67	33.95	34.48	206	284 Average	VERTICAL
5	5540.40	100.58			95.38	5.68	34.00	34.48	206	284 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5454.80	63.33	74.00	-10.67	58.31	5.68	33.81	34.47	329	274 Peak	VERTICAL
2	5454.80	51.36	54.00	-2.64	46.34	5.68	33.81	34.47	329	274 Average	VERTICAL
3	5466.80	63.61	68.20	-4.59	58.56	5.68	33.84	34.47	329	274 Peak	VERTICAL
4	5578.00	96.34			91.02	5.70	34.11	34.49	329	274 Average	VERTICAL
5	5618.00	105.90			100.41	5.73	34.26	34.50	329	274 Peak	VERTICAL
6	5758.00	63.91	68.20	-4.29	57.94	5.82	34.68	34.53	329	274 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5556.00	60.44	68.20	-7.76	52.48	7.80	31.78	31.62	104	292 Peak	HORIZONTAL
2	5763.36	83.27			75.02	7.83	32.13	31.71	104	292 Average	HORIZONTAL
3	5763.36	93.24			84.99	7.83	32.13	31.71	104	292 Peak	HORIZONTAL
4	5951.52	61.96	68.20	-6.24	53.36	7.98	32.42	31.80	104	292 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm	
1	5716.40	105.42			99.63	5.78	34.52	34.51	329	270 Average	VERTICAL
2	5717.60	115.38			109.53	5.79	34.57	34.51	329	270 Peak	VERTICAL
3	5882.00	65.15	68.20	-3.05	58.76	5.89	35.04	34.54	329	270 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 09, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5717.60	113.49			107.64	5.79	34.57	34.51	359	294 Peak	VERTICAL
2	5717.60	103.81			97.96	5.79	34.57	34.51	359	294 Average	VERTICAL
3	5874.80	62.76	68.20	-5.44	56.37	5.89	35.04	34.54	359	294 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 142

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5452.00	57.86	74.00	-16.14	52.84	5.68	33.81	34.47	330	296 Peak	VERTICAL
2	5454.40	47.63	54.00	-6.37	42.61	5.68	33.81	34.47	330	296 Average	VERTICAL
3	5467.60	58.03	68.20	-10.17	52.98	5.68	33.84	34.47	330	296 Peak	VERTICAL
4	5695.60	109.74			104.01	5.77	34.47	34.51	330	296 Peak	VERTICAL
5	5695.60	99.56			93.83	5.77	34.47	34.51	330	296 Average	VERTICAL
6	5863.60	60.29	68.20	-7.91	53.96	5.88	34.99	34.54	330	296 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 10, 2015		

Channel 138

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5662.40	104.59			98.98	5.75	34.37	34.51	328	285	Peak	VERTICAL
2	5681.60	95.65			89.98	5.76	34.42	34.51	328	285	Average	VERTICAL
3	5861.60	59.54	68.20	-8.66	53.21	5.88	34.99	34.54	328	285	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5147.20	67.30	74.00	-6.70	62.66	5.84	33.27	34.47	1	286 Peak	VERTICAL
2	5148.00	52.98	54.00	-1.02	48.34	5.84	33.27	34.47	1	286 Average	VERTICAL
3	5178.00	118.88			114.20	5.82	33.33	34.47	1	286 Peak	VERTICAL
4	5178.00	108.79			104.11	5.82	33.33	34.47	1	286 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5117.20	64.43	74.00	-9.57	59.84	5.85	33.21	34.47	360	250 Peak	VERTICAL
2	5118.00	51.55	54.00	-2.45	46.96	5.85	33.21	34.47	360	250 Average	VERTICAL
3	5198.00	118.81			114.11	5.81	33.36	34.47	360	250 Peak	VERTICAL
4	5198.00	108.80			104.10	5.81	33.36	34.47	360	250 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5077.60	61.76	74.00	-12.24	57.21	5.87	33.15	34.47	360	292 Peak	VERTICAL
2	5087.20	49.77	54.00	-4.23	45.22	5.87	33.15	34.47	360	292 Average	VERTICAL
3	5237.60	118.84			114.10	5.79	33.42	34.47	360	292 Peak	VERTICAL
4	5238.40	108.73			103.99	5.79	33.42	34.47	360	292 Average	VERTICAL
5	5398.40	48.82	54.00	-5.18	43.86	5.71	33.72	34.47	360	292 Average	VERTICAL
6	5399.20	60.27	74.00	-13.73	55.31	5.71	33.72	34.47	360	292 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5096.80	61.77	74.00	-12.23	57.20	5.86	33.18	34.47	360	294 Peak	VERTICAL
2	5107.20	51.17	54.00	-2.83	46.58	5.85	33.21	34.47	360	294 Average	VERTICAL
3	5258.40	119.88			115.12	5.78	33.45	34.47	360	294 Peak	VERTICAL
4	5258.40	110.57			105.81	5.78	33.45	34.47	360	294 Average	VERTICAL
5	5419.20	61.02	74.00	-12.98	56.04	5.70	33.75	34.47	360	294 Peak	VERTICAL
6	5419.20	49.53	54.00	-4.47	44.55	5.70	33.75	34.47	360	294 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5135.20	62.41	74.00	-11.59	57.80	5.84	33.24	34.47	359	276 Peak	VERTICAL
2	5147.20	50.87	54.00	-3.13	46.23	5.84	33.27	34.47	359	276 Average	VERTICAL
3	5297.60	119.57			114.74	5.76	33.54	34.47	359	276 Peak	VERTICAL
4	5298.40	110.28			105.45	5.76	33.54	34.47	359	276 Average	VERTICAL
5	5373.60	60.81	74.00	-13.19	55.89	5.73	33.66	34.47	359	276 Peak	VERTICAL
6	5378.40	50.32	54.00	-3.68	45.38	5.72	33.69	34.47	359	276 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5317.20	119.57			114.72	5.75	33.57	34.47	359	258 Peak	VERTICAL
2	5317.80	109.72			104.87	5.75	33.57	34.47	359	258 Average	VERTICAL
3	5350.00	69.38	74.00	-4.62	64.49	5.73	33.63	34.47	359	258 Peak	VERTICAL
4	5350.00	52.75	54.00	-1.25	47.86	5.73	33.63	34.47	359	258 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 100

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5341.60	52.95	54.00	-1.05	48.08	5.74	33.60	34.47	210	249 Average	VERTICAL
2	5346.40	63.12	74.00	-10.88	58.23	5.73	33.63	34.47	210	249 Peak	VERTICAL
3	5464.00	61.50	74.00	-12.50	56.45	5.68	33.84	34.47	210	249 Peak	VERTICAL
4	5467.60	48.74	54.00	-5.26	43.69	5.68	33.84	34.47	210	249 Average	VERTICAL
5	5492.80	115.21			110.14	5.67	33.87	34.47	210	249 Peak	VERTICAL
6	5492.80	104.96			99.89	5.67	33.87	34.47	210	249 Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5414.40	52.88	54.00	-1.12	47.90	5.70	33.75	34.47	188	275 Average	VERTICAL
2	5425.20	63.05	74.00	-10.95	58.07	5.70	33.75	34.47	188	275 Peak	VERTICAL
3	5470.00	58.54	74.00	-15.46	53.49	5.68	33.84	34.47	188	275 Peak	VERTICAL
4	5470.00	46.29	54.00	-7.71	41.24	5.68	33.84	34.47	188	275 Average	VERTICAL
5	5576.40	115.76			110.44	5.70	34.11	34.49	188	275 Peak	VERTICAL
6	5576.40	105.26			99.94	5.70	34.11	34.49	188	275 Average	VERTICAL
7	5738.40	52.98	54.00	-1.02	47.08	5.80	34.62	34.52	188	275 Average	VERTICAL
8	5746.80	64.83	74.00	-9.17	58.93	5.80	34.62	34.52	188	275 Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5455.20	61.83	74.00	-12.17	56.81	5.68	33.81	34.47	358	270 Peak	VERTICAL
2	5456.40	51.32	54.00	-2.68	46.30	5.68	33.81	34.47	358	270 Average	VERTICAL
3	5466.40	61.53	74.00	-12.47	56.48	5.68	33.84	34.47	358	270 Peak	VERTICAL
4	5466.40	50.94	54.00	-3.06	45.89	5.68	33.84	34.47	358	270 Average	VERTICAL
5	5697.60	104.68			98.95	5.77	34.47	34.51	358	270 Average	VERTICAL
6	5698.80	114.96			109.23	5.77	34.47	34.51	358	270 Peak	VERTICAL
7	5859.60	67.38	74.00	-6.62	61.05	5.88	34.99	34.54	358	270 Peak	VERTICAL
8	5859.60	52.90	54.00	-1.10	46.57	5.88	34.99	34.54	358	270 Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5586.72	60.20	68.20	-8.00	52.16	7.85	31.83	31.64	101	156	Peak	HORIZONTAL
2	5746.72	94.45			86.23	7.83	32.10	31.71	101	156	Average	HORIZONTAL
3	5746.72	103.29			95.07	7.83	32.10	31.71	101	156	Peak	HORIZONTAL
4	6023.20	60.83	68.20	-7.37	52.06	8.05	32.56	31.84	101	156	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5549.60	63.53	68.20	-4.67	55.57	7.80	31.78	31.62	100	238	Peak	VERTICAL
2	5786.40	106.66			98.42	7.82	32.15	31.73	100	238	Average	VERTICAL
3	5786.40	115.74			107.50	7.82	32.15	31.73	100	238	Peak	VERTICAL
4	5995.04	60.69	68.20	-7.51	51.97	8.03	32.50	31.81	100	238	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5582.88	61.20	68.20	-7.00	53.16	7.85	31.83	31.64	102	353	Peak	VERTICAL
2	5819.68	106.86			98.55	7.84	32.21	31.74	102	353	Average	VERTICAL
3	5819.68	116.51			108.20	7.84	32.21	31.74	102	353	Peak	VERTICAL
4	5980.96	61.81	68.20	-6.39	53.14	8.01	32.47	31.81	102	353	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 36

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5146.40	52.79	54.00	-1.21	48.15	5.84	33.27	34.47	355	260 Average	VERTICAL
2	5147.60	68.31	74.00	-5.69	63.67	5.84	33.27	34.47	355	260 Peak	VERTICAL
3	5182.00	118.43			113.75	5.82	33.33	34.47	355	260 Peak	VERTICAL
4	5187.20	107.44			102.76	5.82	33.33	34.47	355	260 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5115.20	62.86	74.00	-11.14	58.27	5.85	33.21	34.47	322	282 Peak	VERTICAL
2	5116.00	50.54	54.00	-3.46	45.95	5.85	33.21	34.47	322	282 Average	VERTICAL
3	5201.20	118.56			113.86	5.81	33.36	34.47	322	282 Peak	VERTICAL
4	5206.40	107.83			103.13	5.81	33.36	34.47	322	282 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5129.60	61.59	74.00	-12.41	56.98	5.84	33.24	34.47	356	285 Peak	VERTICAL
2	5150.00	49.58	54.00	-4.42	44.94	5.84	33.27	34.47	356	285 Average	VERTICAL
3	5232.00	118.43			113.69	5.79	33.42	34.47	356	285 Peak	VERTICAL
4	5232.00	107.13			102.39	5.79	33.42	34.47	356	285 Average	VERTICAL
5	5397.60	47.96	54.00	-6.04	43.00	5.71	33.72	34.47	356	285 Average	VERTICAL
6	5398.40	60.06	74.00	-13.94	55.10	5.71	33.72	34.47	356	285 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 52

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5096.00	59.75	74.00	-14.25	55.18	5.86	33.18	34.47	331	268 Peak	VERTICAL
2	5104.80	48.69	54.00	-5.31	44.12	5.86	33.18	34.47	331	268 Average	VERTICAL
3	5265.60	118.43			113.64	5.78	33.48	34.47	331	268 Peak	VERTICAL
4	5265.60	108.16			103.37	5.78	33.48	34.47	331	268 Average	VERTICAL
5	5416.00	48.78	54.00	-5.22	43.80	5.70	33.75	34.47	331	268 Average	VERTICAL
6	5421.60	60.73	74.00	-13.27	55.75	5.70	33.75	34.47	331	268 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5136.00	59.98	74.00	-14.02	55.37	5.84	33.24	34.47	350	254 Peak	VERTICAL
2	5136.80	48.64	54.00	-5.36	44.03	5.84	33.24	34.47	350	254 Average	VERTICAL
3	5292.00	117.79			112.98	5.77	33.51	34.47	350	254 Peak	VERTICAL
4	5296.80	107.59			102.76	5.76	33.54	34.47	350	254 Average	VERTICAL
5	5372.00	49.42	54.00	-4.58	44.50	5.73	33.66	34.47	350	254 Average	VERTICAL
6	5376.00	61.29	74.00	-12.71	56.37	5.73	33.66	34.47	350	254 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5315.60	118.21			113.36	5.75	33.57	34.47	330	274 Peak	VERTICAL
2	5315.60	107.51			102.66	5.75	33.57	34.47	330	274 Average	VERTICAL
3	5350.60	52.96	54.00	-1.04	48.07	5.73	33.63	34.47	330	274 Average	VERTICAL
4	5353.20	67.34	74.00	-6.66	62.45	5.73	33.63	34.47	330	274 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 100

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5341.60	65.15	68.20	-3.05	60.28	5.74	33.60	34.47	211	277 Peak	VERTICAL
2	5427.60	64.34	74.00	-9.66	59.36	5.70	33.75	34.47	211	277 Peak	VERTICAL
3	5427.60	52.93	54.00	-1.07	47.95	5.70	33.75	34.47	211	277 Average	VERTICAL
4	5464.00	66.39	68.20	-1.81	61.34	5.68	33.84	34.47	211	277 Peak	VERTICAL
5	5492.80	117.17			112.10	5.67	33.87	34.47	211	277 Peak	VERTICAL
6	5492.80	106.56			101.49	5.67	33.87	34.47	211	277 Average	VERTICAL
7	5737.60	62.94	68.20	-5.26	57.04	5.80	34.62	34.52	211	277 Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5425.20	63.50	74.00	-10.50	58.52	5.70	33.75	34.47	330	250 Peak	VERTICAL
2	5425.20	52.94	54.00	-1.06	47.96	5.70	33.75	34.47	330	250 Average	VERTICAL
3	5470.00	59.68	68.20	-8.52	54.63	5.68	33.84	34.47	330	250 Peak	VERTICAL
4	5575.20	113.84			108.52	5.70	34.11	34.49	330	250 Peak	VERTICAL
5	5586.00	103.33			97.95	5.71	34.16	34.49	330	250 Average	VERTICAL
6	5740.80	62.79	68.20	-5.41	56.89	5.80	34.62	34.52	330	250 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5694.40	103.98			98.25	5.77	34.47	34.51	7	260 Average	VERTICAL
2	5694.60	114.52			108.79	5.77	34.47	34.51	7	260 Peak	VERTICAL
3	5725.00	70.09	74.00	-3.91	64.24	5.79	34.57	34.51	7	260 Peak	VERTICAL
4	5725.00	52.70	54.00	-1.30	46.85	5.79	34.57	34.51	7	260 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5573.92	60.04	68.20	-8.16	52.04	7.82	31.81	31.63	101	182 Peak	VERTICAL
2	5739.04	100.59			92.37	7.83	32.10	31.71	101	182 Average	VERTICAL
3	5749.28	110.67			102.45	7.83	32.10	31.71	101	182 Peak	VERTICAL
4	5993.76	60.74	68.20	-7.46	52.02	8.03	32.50	31.81	101	182 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5627.68	61.63	68.20	-6.57	53.52	7.86	31.91	31.66	102	354 Peak	VERTICAL
2	5778.72	114.80			106.55	7.82	32.15	31.72	102	354 Peak	VERTICAL
3	5788.96	105.24			96.97	7.82	32.18	31.73	102	354 Average	VERTICAL
4	6018.08	60.50	68.20	-7.70	51.73	8.05	32.56	31.84	102	354 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5581.60	60.80	68.20	-7.40	52.76	7.85	31.83	31.64	102	157 Peak	HORIZONTAL
2	5817.12	95.07			86.76	7.84	32.21	31.74	102	157 Average	HORIZONTAL
3	5832.48	104.13			95.79	7.86	32.23	31.75	102	157 Peak	HORIZONTAL
4	5986.08	60.40	68.20	-7.80	51.73	8.01	32.47	31.81	102	157 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5147.20	52.55	54.00	-1.45	47.91	5.84	33.27	34.47	356	286 Average	VERTICAL
2	5148.00	66.43	74.00	-7.57	61.79	5.84	33.27	34.47	356	286 Peak	VERTICAL
3	5202.00	109.14			104.44	5.81	33.36	34.47	356	286 Peak	VERTICAL
4	5202.00	99.61			94.91	5.81	33.36	34.47	356	286 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5082.00	52.70	54.00	-1.30	48.15	5.87	33.15	34.47	356	281 Average	VERTICAL
2	5086.00	62.66	74.00	-11.34	58.11	5.87	33.15	34.47	356	281 Peak	VERTICAL
3	5217.20	111.84			107.12	5.80	33.39	34.47	356	281 Peak	VERTICAL
4	5217.20	102.83			98.11	5.80	33.39	34.47	356	281 Average	VERTICAL
5	5378.00	50.20	54.00	-3.80	45.26	5.72	33.69	34.47	356	281 Average	VERTICAL
6	5385.20	61.42	74.00	-12.58	56.48	5.72	33.69	34.47	356	281 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 54

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5114.80	63.97	74.00	-10.03	59.38	5.85	33.21	34.47	329	289 Peak	VERTICAL
2	5125.20	52.97	54.00	-1.03	48.36	5.84	33.24	34.47	329	289 Average	VERTICAL
3	5266.00	104.91			100.12	5.78	33.48	34.47	329	289 Average	VERTICAL
4	5275.60	114.89			110.08	5.77	33.51	34.47	329	289 Peak	VERTICAL
5	5416.40	63.04	74.00	-10.96	58.06	5.70	33.75	34.47	329	289 Peak	VERTICAL
6	5441.20	52.64	54.00	-1.36	47.64	5.69	33.78	34.47	329	289 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5296.00	98.91			94.08	5.76	33.54	34.47	327	279 Average	VERTICAL
2	5301.60	108.70			103.87	5.76	33.54	34.47	327	279 Peak	VERTICAL
3	5350.80	66.23	74.00	-7.77	61.34	5.73	33.63	34.47	327	279 Peak	VERTICAL
4	5350.80	52.93	54.00	-1.07	48.04	5.73	33.63	34.47	327	279 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5447.60	49.96	54.00	-4.04	44.94	5.68	33.81	34.47	209	281	Average	VERTICAL
2	5458.80	62.86	74.00	-11.14	57.84	5.68	33.81	34.47	209	281	Peak	VERTICAL
3	5467.60	66.78	68.20	-1.42	61.73	5.68	33.84	34.47	209	281	Peak	VERTICAL
4	5502.80	109.22			104.14	5.66	33.90	34.48	209	281	Peak	VERTICAL
5	5522.80	99.27			94.13	5.67	33.95	34.48	209	281	Average	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5401.20	62.51	74.00	-11.49	57.55	5.71	33.72	34.47	330	282	Peak	VERTICAL
2	5405.20	52.82	54.00	-1.18	47.86	5.71	33.72	34.47	330	282	Average	VERTICAL
3	5465.20	62.54	68.20	-5.66	57.49	5.68	33.84	34.47	330	282	Peak	VERTICAL
4	5535.60	102.91			97.71	5.68	34.00	34.48	330	282	Average	VERTICAL
5	5555.60	112.51			107.25	5.69	34.06	34.49	330	282	Peak	VERTICAL
6	5726.80	61.47	68.20	-6.73	55.62	5.79	34.57	34.51	330	282	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5434.80	61.94	74.00	-12.06	56.94	5.69	33.78	34.47	332	286	Peak	VERTICAL
2	5444.40	50.68	54.00	-3.32	45.68	5.69	33.78	34.47	332	286	Average	VERTICAL
3	5466.40	59.06	68.20	-9.14	54.01	5.68	33.84	34.47	332	286	Peak	VERTICAL
4	5655.60	104.66			99.05	5.75	34.37	34.51	332	286	Average	VERTICAL
5	5676.00	115.10			109.43	5.76	34.42	34.51	332	286	Peak	VERTICAL
6	5731.20	64.86	68.20	-3.34	59.02	5.79	34.57	34.52	332	286	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 / 3TX

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5541.92	59.94	68.20	-8.26	52.03	7.78	31.75	31.62	100	154 Peak	HORIZONTAL
2	5741.60	86.47			78.25	7.83	32.10	31.71	100	154 Average	HORIZONTAL
3	5765.92	95.94			87.70	7.83	32.13	31.72	100	154 Peak	HORIZONTAL
4	5957.92	60.36	68.20	-7.84	51.76	7.98	32.42	31.80	100	154 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5632.80	63.68	68.20	-4.52	55.57	7.86	31.91	31.66	105	354 Peak	VERTICAL
2	5788.96	101.10			92.83	7.82	32.18	31.73	105	354 Average	VERTICAL
3	5808.16	110.73			102.42	7.84	32.21	31.74	105	354 Peak	VERTICAL
4	5964.32	62.74	68.20	-5.46	54.10	7.99	32.45	31.80	105	354 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5126.00	63.24	74.00	-10.76	58.63	5.84	33.24	34.47	320	284 Peak	VERTICAL
2	5145.20	52.90	54.00	-1.10	48.26	5.84	33.27	34.47	320	284 Average	VERTICAL
3	5201.20	105.79			101.09	5.81	33.36	34.47	320	284 Peak	VERTICAL
4	5226.00	95.91			91.17	5.79	33.42	34.47	320	284 Average	VERTICAL
5	5357.20	60.10	74.00	-13.90	55.21	5.73	33.63	34.47	320	284 Peak	VERTICAL
6	5357.20	48.10	54.00	-5.90	43.21	5.73	33.63	34.47	320	284 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5137.00	48.13	54.00	-5.87	43.52	5.84	33.24	34.47	4	270 Average	VERTICAL
2	5147.00	59.41	74.00	-14.59	54.77	5.84	33.27	34.47	4	270 Peak	VERTICAL
3	5260.00	94.35			89.56	5.78	33.48	34.47	4	270 Average	VERTICAL
4	5278.00	103.21			98.40	5.77	33.51	34.47	4	270 Peak	VERTICAL
5	5350.00	63.31	74.00	-10.69	58.42	5.73	33.63	34.47	4	270 Peak	VERTICAL
6	5355.00	52.95	54.00	-1.05	48.06	5.73	33.63	34.47	4	270 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 106

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5457.00	52.75	54.00	-1.25	47.73	5.68	33.81	34.47	211	273 Average	VERTICAL
2	5458.00	62.61	74.00	-11.39	57.59	5.68	33.81	34.47	211	273 Peak	VERTICAL
3	5468.00	64.62	68.20	-3.58	59.57	5.68	33.84	34.47	211	273 Peak	VERTICAL
4	5493.00	102.57			97.50	5.67	33.87	34.47	211	273 Peak	VERTICAL
5	5518.00	94.05			88.91	5.67	33.95	34.48	211	273 Average	VERTICAL
6	5766.00	59.43	68.20	-8.77	53.46	5.82	34.68	34.53	211	273 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5454.00	64.34	74.00	-9.66	59.32	5.68	33.81	34.47	332	289 Peak	VERTICAL
2	5460.00	52.61	54.00	-1.39	47.59	5.68	33.81	34.47	332	289 Average	VERTICAL
3	5466.00	64.22	68.20	-3.98	59.17	5.68	33.84	34.47	332	289 Peak	VERTICAL
4	5621.00	110.38			104.89	5.73	34.26	34.50	332	289 Peak	VERTICAL
5	5626.00	100.42			94.93	5.73	34.26	34.50	332	289 Average	VERTICAL
6	5761.00	64.64	68.20	-3.56	58.67	5.82	34.68	34.53	332	289 Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5637.92	60.62	68.20	-7.58	52.52	7.86	31.91	31.67	103	353 Peak	VERTICAL
2	5788.96	90.87			82.60	7.82	32.18	31.73	103	353 Average	VERTICAL
3	5788.96	101.37			93.10	7.82	32.18	31.73	103	353 Peak	VERTICAL
4	5941.28	61.18	68.20	-7.02	52.58	7.98	32.42	31.80	103	353 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm	
1	5718.80	118.62			112.77	5.79	34.57	34.51	1	279 Peak	VERTICAL
2	5718.80	108.76			102.91	5.79	34.57	34.51	1	279 Average	VERTICAL
3	5879.60	66.95	68.20	-1.25	60.56	5.89	35.04	34.54	1	279 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 08, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm	
1	5714.00	106.63			100.84	5.78	34.52	34.51	6	274 Average	VERTICAL
2	5724.80	117.94			112.09	5.79	34.57	34.51	6	274 Peak	VERTICAL
3	5885.60	67.00	68.20	-1.20	60.62	5.89	35.04	34.55	6	274 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 142

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5452.00	58.11	74.00	-15.89	53.09	5.68	33.81	34.47	326	105 Peak	HORIZONTAL
2	5458.00	46.65	54.00	-7.35	41.63	5.68	33.81	34.47	326	105 Average	HORIZONTAL
3	5470.00	57.74	68.20	-10.46	52.69	5.68	33.84	34.47	326	105 Peak	HORIZONTAL
4	5705.20	104.99			99.20	5.78	34.52	34.51	326	105 Peak	HORIZONTAL
5	5705.20	95.47			89.68	5.78	34.52	34.51	326	105 Average	HORIZONTAL
6	5860.00	60.64	68.20	-7.56	54.31	5.88	34.99	34.54	326	105 Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 09, 2015		

Channel 138

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	5705.00	99.30			93.51	5.78	34.52	34.51	8	276 Average	VERTICAL
2	5720.00	108.24			102.39	5.79	34.57	34.51	8	276 Peak	VERTICAL
3	5861.00	61.47	68.20	-6.73	55.14	5.88	34.99	34.54	8	276 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

For Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.60	48.85	54.00	-5.15	41.95	6.21	33.74	33.05	281	325	Average	VERTICAL
2	5148.80	61.31	74.00	-12.69	54.41	6.21	33.74	33.05	281	325	Peak	VERTICAL
3	5185.80	111.68			104.70	6.24	33.79	33.05	281	325	Peak	VERTICAL
4	5188.00	102.79			95.81	6.24	33.79	33.05	281	325	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5113.20	60.20	74.00	-13.80	53.42	6.14	33.69	33.05	278	12	Peak	VERTICAL
2	5144.00	47.81	54.00	-6.19	40.91	6.21	33.74	33.05	278	12	Average	VERTICAL
3	5206.00	113.34			106.30	6.27	33.82	33.05	278	12	Peak	VERTICAL
4	5206.80	103.06			96.02	6.27	33.82	33.05	278	12	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.20	47.23	54.00	-6.77	40.33	6.21	33.74	33.05	276	328	Average	VERTICAL
2	5150.00	59.28	74.00	-14.72	52.38	6.21	33.74	33.05	276	328	Peak	VERTICAL
3	5232.20	103.73			96.61	6.30	33.87	33.05	276	328	Average	VERTICAL
4	5244.20	113.85			106.70	6.30	33.90	33.05	276	328	Peak	VERTICAL
5	5367.20	60.07	74.00	-13.93	52.57	6.47	34.09	33.06	276	328	Peak	VERTICAL
6	5370.20	48.72	54.00	-5.28	41.22	6.47	34.09	33.06	276	328	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5130.40	47.17	54.00	-6.83	40.34	6.17	33.71	33.05	274	327	Average	VERTICAL
2	5133.40	58.78	74.00	-15.22	51.95	6.17	33.71	33.05	274	327	Peak	VERTICAL
3	5265.40	113.03			105.82	6.34	33.93	33.06	274	327	Peak	VERTICAL
4	5266.60	103.48			96.27	6.34	33.93	33.06	274	327	Average	VERTICAL
5	5362.00	48.94	54.00	-5.06	41.44	6.47	34.09	33.06	274	327	Average	VERTICAL
6	5362.60	61.53	74.00	-12.47	54.03	6.47	34.09	33.06	274	327	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5292.00	104.37			97.11	6.37	33.95	33.06	300	355	Average	VERTICAL
2	5292.40	113.59			106.33	6.37	33.95	33.06	300	355	Peak	VERTICAL
3	5358.80	49.76	54.00	-4.24	42.29	6.47	34.06	33.06	300	355	Average	VERTICAL
4	5360.80	62.05	74.00	-11.95	54.55	6.47	34.09	33.06	300	355	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5324.40	115.35			107.97	6.43	34.01	33.06	278	360	Peak	VERTICAL
2	5328.00	105.65			98.25	6.43	34.03	33.06	278	360	Average	VERTICAL
3	5350.60	52.52	54.00	-1.48	45.05	6.47	34.06	33.06	278	360	Average	VERTICAL
4	5358.00	70.29	74.00	-3.71	62.82	6.47	34.06	33.06	278	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5456.00	49.81	54.00	-4.19	42.05	6.60	34.22	33.06	295	326	Average	VERTICAL
2	5459.60	62.42	74.00	-11.58	54.66	6.60	34.22	33.06	295	326	Peak	VERTICAL
3	5469.80	64.44	74.00	-9.56	56.65	6.60	34.25	33.06	295	326	Peak	VERTICAL
4	5470.00	50.73	54.00	-3.27	42.94	6.60	34.25	33.06	295	326	Average	VERTICAL
5	5507.00	104.29			96.41	6.65	34.30	33.07	295	326	Average	VERTICAL
6	5507.00	113.56			105.68	6.65	34.30	33.07	295	326	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preampl Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5426.00	52.93	54.00	-1.07	45.26	6.56	34.17	33.06	255	92	Average	VERTICAL
2	5426.00	64.39	74.00	-9.61	56.72	6.56	34.17	33.06	255	92	Peak	VERTICAL
3	5463.00	63.10	74.00	-10.90	55.31	6.60	34.25	33.06	255	92	Peak	VERTICAL
4	5470.00	48.55	74.00	-25.45	40.76	6.60	34.25	33.06	255	92	Peak	VERTICAL
5	5586.00	103.97			95.99	6.72	34.35	33.09	255	92	Average	VERTICAL
6	5586.00	113.70			105.72	6.72	34.35	33.09	255	92	Peak	VERTICAL
7	5739.00	63.30	74.00	-10.70	55.14	6.86	34.44	33.14	255	92	Peak	VERTICAL
8	5743.00	51.05	54.00	-2.95	42.89	6.86	34.44	33.14	255	92	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	5697.00	102.57			94.47	6.81	34.41	33.12	292	111	Average	VERTICAL
2	5697.00	113.00			104.90	6.81	34.41	33.12	292	111	Peak	VERTICAL
3	5725.00	50.77	54.00	-3.23	42.64	6.83	34.43	33.13	292	111	Average	VERTICAL
4	5725.00	65.45	74.00	-8.55	57.32	6.83	34.43	33.13	292	111	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 / 2TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5581.80	61.45	68.20	-6.75	53.41	7.85	31.83	31.64	105	238	Peak	VERTICAL
2	5737.00	99.23			91.03	7.84	32.07	31.71	105	238	Peak	VERTICAL
3	5740.20	109.17			100.95	7.83	32.10	31.71	105	238	Peak	VERTICAL
4	6028.20	62.40	68.20	-5.80	53.55	8.08	32.61	31.84	105	238	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5551.40	61.69	68.20	-6.51	53.73	7.80	31.78	31.62	100	238	Peak	VERTICAL
2	5783.40	102.02			93.78	7.82	32.15	31.73	100	238	Average	VERTICAL
3	5789.80	111.05			102.78	7.82	32.18	31.73	100	238	Peak	VERTICAL
4	5954.60	60.90	68.20	-7.30	52.30	7.98	32.42	31.80	100	238	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5577.00	61.23	68.20	-6.97	53.18	7.85	31.83	31.63	100	221	Peak	VERTICAL
2	5821.80	110.71			102.41	7.84	32.21	31.75	100	221	Peak	VERTICAL
3	5826.60	100.71			92.37	7.86	32.23	31.75	100	221	Average	VERTICAL
4	5991.40	61.87	68.20	-6.33	53.20	8.01	32.47	31.81	100	221	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 38

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5150.00	52.53	54.00	-1.47	45.63	6.21	33.74	33.05	296	99 Average	VERTICAL
2	5150.00	66.86	74.00	-7.14	59.96	6.21	33.74	33.05	296	99 Peak	VERTICAL
3	5201.20	95.99			88.95	6.27	33.82	33.05	296	99 Average	VERTICAL
4	5202.00	106.93			99.89	6.27	33.82	33.05	296	99 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5076.40	49.49	54.00	-4.51	42.80	6.11	33.63	33.05	285	326 Average	VERTICAL
2	5077.20	60.29	74.00	-13.71	53.60	6.11	33.63	33.05	285	326 Peak	VERTICAL
3	5243.60	110.71			103.56	6.30	33.90	33.05	285	326 Peak	VERTICAL
4	5244.40	101.23			94.08	6.30	33.90	33.05	285	326 Average	VERTICAL
5	5396.40	52.60	54.00	-1.40	45.02	6.50	34.14	33.06	285	326 Average	VERTICAL
6	5400.40	63.74	74.00	-10.26	56.13	6.53	34.14	33.06	285	326 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5126.80	52.50	54.00	-1.50	45.67	6.17	33.71	33.05	298	360	Average	VERTICAL
2	5127.60	63.38	74.00	-10.62	56.55	6.17	33.71	33.05	298	360	Peak	VERTICAL
3	5286.00	102.54			95.28	6.37	33.95	33.06	298	360	Average	VERTICAL
4	5286.80	112.33			105.07	6.37	33.95	33.06	298	360	Peak	VERTICAL
5	5350.00	71.84	74.00	-2.16	64.37	6.47	34.06	33.06	298	360	Peak	VERTICAL
6	5443.60	52.47	54.00	-1.53	44.78	6.56	34.19	33.06	298	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preampl Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5294.80	107.76			100.47	6.37	33.98	33.06	246	360	Peak	VERTICAL
2	5295.60	98.58			91.29	6.37	33.98	33.06	246	360	Average	VERTICAL
3	5350.80	52.82	54.00	-1.18	45.35	6.47	34.06	33.06	246	360	Average	VERTICAL
4	5351.60	65.77	74.00	-8.23	58.30	6.47	34.06	33.06	246	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5353.20	62.94	74.00	-11.06	55.47	6.47	34.06	33.06	277	329	Peak	VERTICAL
2	5364.40	51.04	54.00	-2.96	43.54	6.47	34.09	33.06	277	329	Average	VERTICAL
3	5469.20	66.98	68.20	-1.22	59.19	6.60	34.25	33.06	277	329	Peak	VERTICAL
4	5523.60	100.86			92.97	6.65	34.31	33.07	277	329	Average	VERTICAL
5	5523.60	110.10			102.21	6.65	34.31	33.07	277	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5385.20	52.60	54.00	-1.40	45.05	6.50	34.11	33.06	287	332	Average	VERTICAL
2	5402.00	63.74	74.00	-10.26	56.13	6.53	34.14	33.06	287	332	Peak	VERTICAL
3	5468.40	63.01	74.00	-10.99	55.22	6.60	34.25	33.06	287	332	Peak	VERTICAL
4	5469.20	50.77	54.00	-3.23	42.98	6.60	34.25	33.06	287	332	Average	VERTICAL
5	5541.20	114.31			106.39	6.68	34.32	33.08	287	332	Peak	VERTICAL
6	5545.20	103.99			96.07	6.68	34.32	33.08	287	332	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5683.60	102.57			94.47	6.81	34.41	33.12	300	22	Average	VERTICAL
2	5683.60	112.40			104.30	6.81	34.41	33.12	300	22	Peak	VERTICAL
3	5734.80	67.10	74.00	-6.90	58.94	6.86	34.44	33.14	300	22	Peak	VERTICAL
4	5843.60	52.55	54.00	-1.45	44.26	6.95	34.51	33.17	300	22	Average	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 / 2TX

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5612.60	62.39	68.20	-5.81	54.28	7.87	31.89	31.65	104	239 Peak	VERTICAL
2	5739.00	93.56			85.34	7.83	32.10	31.71	104	239 Average	VERTICAL
3	5769.40	103.86			95.62	7.83	32.13	31.72	104	239 Peak	VERTICAL
4	6039.80	62.16	68.20	-6.04	53.32	8.08	32.61	31.85	104	239 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5630.20	62.67	68.20	-5.53	54.56	7.86	31.91	31.66	100	221 Peak	VERTICAL
2	5787.00	97.81			89.57	7.82	32.15	31.73	100	221 Average	VERTICAL
3	5809.40	109.55			101.24	7.84	32.21	31.74	100	221 Peak	VERTICAL
4	5951.80	63.64	68.20	-4.56	55.04	7.98	32.42	31.80	100	221 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 42

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.00	52.49	54.00	-1.51	45.59	6.21	33.74	33.05	299	317 Average	VERTICAL
2	5148.00	65.60	74.00	-8.40	58.70	6.21	33.74	33.05	299	317 Peak	VERTICAL
3	5187.00	109.43			102.45	6.24	33.79	33.05	299	317 Peak	VERTICAL
4	5225.00	95.48			88.36	6.30	33.87	33.05	299	317 Average	VERTICAL
5	5384.00	49.37	54.00	-4.63	41.82	6.50	34.11	33.06	299	317 Average	VERTICAL
6	5433.00	61.71	74.00	-12.29	54.02	6.56	34.19	33.06	299	317 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5102.00	59.12	74.00	-14.88	52.37	6.14	33.66	33.05	298	317 Peak	VERTICAL
2	5107.00	49.49	54.00	-4.51	42.71	6.14	33.69	33.05	298	317 Average	VERTICAL
3	5254.00	95.78			88.60	6.34	33.90	33.06	298	317 Average	VERTICAL
4	5256.00	108.68			101.50	6.34	33.90	33.06	298	317 Peak	VERTICAL
5	5350.00	52.78	54.00	-1.22	45.31	6.47	34.06	33.06	298	317 Average	VERTICAL
6	5358.00	67.05	74.00	-6.95	59.58	6.47	34.06	33.06	298	317 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 106

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor				
						dB	dB/m	dB	cm	deg		
1	5459.00	52.34	54.00	-1.66	44.58	6.60	34.22	33.06	298	343	Average	VERTICAL
2	5460.00	64.62	74.00	-9.38	56.86	6.60	34.22	33.06	298	343	Peak	VERTICAL
3	5463.00	52.65	54.00	-1.35	44.86	6.60	34.25	33.06	298	343	Average	VERTICAL
4	5466.00	67.27	74.00	-6.73	59.48	6.60	34.25	33.06	298	343	Peak	VERTICAL
5	5495.00	109.32			101.48	6.63	34.27	33.06	298	343	Peak	VERTICAL
6	5541.00	96.20			88.28	6.68	34.32	33.08	298	343	Average	VERTICAL
7	5725.00	47.96	54.00	-6.04	39.83	6.83	34.43	33.13	298	343	Average	VERTICAL
8	5731.00	60.68	74.00	-13.32	52.53	6.86	34.43	33.14	298	343	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5530 MHz.

Channel 122

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor				
						dB	dB/m	dB	cm	deg		
1	5437.00	52.51	54.00	-1.49	44.82	6.56	34.19	33.06	291	324	Average	VERTICAL
2	5438.00	65.47	74.00	-8.53	57.78	6.56	34.19	33.06	291	324	Peak	VERTICAL
3	5467.00	67.47	74.00	-6.53	59.68	6.60	34.25	33.06	291	324	Peak	VERTICAL
4	5470.00	52.98	54.00	-1.02	45.19	6.60	34.25	33.06	291	324	Average	VERTICAL
5	5587.00	113.99			106.01	6.72	34.35	33.09	291	324	Peak	VERTICAL
6	5591.00	99.92			91.94	6.72	34.35	33.09	291	324	Average	VERTICAL
7	5741.00	65.72	74.00	-8.28	57.56	6.86	34.44	33.14	291	324	Peak	VERTICAL
8	5743.00	52.99	54.00	-1.01	44.83	6.86	34.44	33.14	291	324	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5610 MHz.

Channel 155

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor				
						dB	dB/m	dB	cm	deg		
1	5645.40	62.03	68.20	-6.17	53.90	7.86	31.94	31.67	100	236	Peak	VERTICAL
2	5743.00	88.91			80.69	7.83	32.10	31.71	100	236	Average	VERTICAL
3	5760.60	100.61			92.36	7.83	32.13	31.71	100	236	Peak	VERTICAL
4	5992.60	60.89	68.20	-7.31	52.22	8.01	32.47	31.81	100	236	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	5718.00	104.08			95.95	6.83	34.43	33.13	269	325	Average	VERTICAL
2	5720.00	113.97			105.84	6.83	34.43	33.13	269	325	Peak	VERTICAL
3	5873.00	65.23	68.20	-2.97	56.91	6.97	34.53	33.18	269	325	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 142

	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5453.20	61.69	74.00	-12.31	53.93	6.60	34.22	33.06	265	323	Peak	VERTICAL
2	5456.80	50.16	54.00	-3.84	42.40	6.60	34.22	33.06	265	323	Average	VERTICAL
3	5470.00	60.33	68.20	-7.87	52.54	6.60	34.25	33.06	265	323	Peak	VERTICAL
4	5694.40	111.70			103.60	6.81	34.41	33.12	265	323	Peak	VERTICAL
5	5707.60	101.56			93.44	6.83	34.42	33.13	265	323	Average	VERTICAL
6	5868.40	64.03	68.20	-4.17	55.72	6.97	34.52	33.18	265	323	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 / 2TX
Test Date	Oct. 21, 2015		

Channel 138

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	5666.00	110.58			102.52	6.79	34.39	33.12	300	20	Peak	VERTICAL
2	5683.00	97.34			89.25	6.81	34.40	33.12	300	20	Average	VERTICAL
3	5859.00	62.09	68.20	-6.11	53.78	6.97	34.52	33.18	300	20	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.40	63.45	74.00	-10.55	56.55	6.21	33.74	33.05	264	0 Peak	VERTICAL
2	5148.80	51.00	54.00	-3.00	44.10	6.21	33.74	33.05	264	0 Average	VERTICAL
3	5185.60	104.12			97.14	6.24	33.79	33.05	264	0 Average	VERTICAL
4	5186.00	114.24			107.26	6.24	33.79	33.05	264	0 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5112.00	49.93	54.00	-4.07	43.15	6.14	33.69	33.05	247	175 Average	VERTICAL
2	5116.80	61.45	74.00	-12.55	54.67	6.14	33.69	33.05	247	175 Peak	VERTICAL
3	5194.40	104.95			97.94	6.24	33.82	33.05	247	175 Average	VERTICAL
4	5195.20	114.59			107.55	6.27	33.82	33.05	247	175 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5118.80	59.26	74.00	-14.74	52.45	6.17	33.69	33.05	259	0 Peak	VERTICAL
2	5150.00	47.27	54.00	-6.73	40.37	6.21	33.74	33.05	259	0 Average	VERTICAL
3	5233.40	104.88			97.76	6.30	33.87	33.05	259	0 Average	VERTICAL
4	5238.20	114.80			107.68	6.30	33.87	33.05	259	0 Peak	VERTICAL
5	5358.80	47.84	54.00	-6.16	40.37	6.47	34.06	33.06	259	0 Average	VERTICAL
6	5369.60	60.53	74.00	-13.47	53.03	6.47	34.09	33.06	259	0 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5104.00	61.39	74.00	-12.61	54.64	6.14	33.66	33.05	298	320	Peak	VERTICAL
2	5108.00	47.92	54.00	-6.08	41.14	6.14	33.69	33.05	298	320	Average	VERTICAL
3	5265.60	105.94			98.73	6.34	33.93	33.06	298	320	Average	VERTICAL
4	5266.40	115.89			108.68	6.34	33.93	33.06	298	320	Peak	VERTICAL
5	5412.80	61.09	74.00	-12.91	53.45	6.53	34.17	33.06	298	320	Peak	VERTICAL
6	5424.00	48.64	54.00	-5.36	41.00	6.53	34.17	33.06	298	320	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5304.00	116.53			109.21	6.40	33.98	33.06	293	0 Peak	VERTICAL
2	5308.00	106.96			99.64	6.40	33.98	33.06	293	0 Average	VERTICAL
3	5358.80	49.54	54.00	-4.46	42.07	6.47	34.06	33.06	293	0 Average	VERTICAL
4	5377.60	63.37	74.00	-10.63	55.82	6.50	34.11	33.06	293	0 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5322.60	106.20			98.82	6.43	34.01	33.06	251	326	Average	VERTICAL
2	5323.20	118.15			110.77	6.43	34.01	33.06	251	326	Peak	VERTICAL
3	5353.60	52.64	54.00	-1.36	45.17	6.47	34.06	33.06	251	326	Average	VERTICAL
4	5356.80	72.95	74.00	-1.05	65.48	6.47	34.06	33.06	251	326	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 100

	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	5427.20	52.75	54.00	-1.25	45.08	6.56	34.17	33.06	250	329	Average	VERTICAL
2	5428.40	66.07	74.00	-7.93	58.40	6.56	34.17	33.06	250	329	Peak	VERTICAL
3	5465.60	65.00	74.00	-9.00	57.21	6.60	34.25	33.06	250	329	Peak	VERTICAL
4	5468.40	50.83	54.00	-3.17	43.04	6.60	34.25	33.06	250	329	Average	VERTICAL
5	5506.00	103.72			95.84	6.65	34.30	33.07	250	329	Average	VERTICAL
6	5506.80	116.54			108.66	6.65	34.30	33.07	250	329	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5500 MHz.

Channel 116

	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	5425.20	52.82	54.00	-1.18	45.15	6.56	34.17	33.06	240	329	Average	VERTICAL
2	5427.60	63.81	74.00	-10.19	56.14	6.56	34.17	33.06	240	329	Peak	VERTICAL
3	5468.80	47.91	54.00	-6.09	40.12	6.60	34.25	33.06	240	329	Average	VERTICAL
4	5470.00	59.38	74.00	-14.62	51.59	6.60	34.25	33.06	240	329	Peak	VERTICAL
5	5582.40	114.13			106.15	6.72	34.35	33.09	240	329	Peak	VERTICAL
6	5583.60	102.71			94.73	6.72	34.35	33.09	240	329	Average	VERTICAL
7	5734.60	61.23	74.00	-12.77	53.07	6.86	34.44	33.14	240	329	Peak	VERTICAL
8	5738.40	49.56	54.00	-4.44	41.40	6.86	34.44	33.14	240	329	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5580 MHz.

Channel 140

	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	5694.40	113.41			105.31	6.81	34.41	33.12	250	112	Peak	VERTICAL
2	5696.80	103.27			95.17	6.81	34.41	33.12	250	112	Average	VERTICAL
3	5725.00	52.32	54.00	-1.68	44.19	6.83	34.43	33.13	250	112	Average	VERTICAL
4	5725.00	68.41	74.00	-5.59	60.28	6.83	34.43	33.13	250	112	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 / 3TX

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5576.48	59.67	68.20	-8.53	51.62	7.85	31.83	31.63	106	242	Peak	VERTICAL
2	5737.76	109.13			100.93	7.84	32.07	31.71	106	242	Peak	VERTICAL
3	5751.84	99.13			90.91	7.83	32.10	31.71	106	242	Average	VERTICAL
4	5929.76	60.71	68.20	-7.49	52.15	7.96	32.39	31.79	106	242	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5548.32	61.97	68.20	-6.23	54.01	7.80	31.78	31.62	104	242	Peak	VERTICAL
2	5787.68	102.82			94.58	7.82	32.15	31.73	104	242	Average	VERTICAL
3	5791.52	112.80			104.53	7.82	32.18	31.73	104	242	Peak	VERTICAL
4	6005.28	60.16	68.20	-8.04	51.45	8.03	32.50	31.82	104	242	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5530.40	59.60	68.20	-8.60	51.69	7.78	31.75	31.62	106	148	Peak	HORIZONTAL
2	5818.40	102.82			94.51	7.84	32.21	31.74	106	148	Peak	HORIZONTAL
3	5831.20	93.40			85.06	7.86	32.23	31.75	106	148	Average	HORIZONTAL
4	5955.36	60.66	68.20	-7.54	52.06	7.98	32.42	31.80	106	148	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.60	65.34	74.00	-8.66	58.44	6.21	33.74	33.05	261	360	Peak	VERTICAL
2	5150.00	52.37	54.00	-1.63	45.47	6.21	33.74	33.05	261	360	Average	VERTICAL
3	5203.20	96.83			89.79	6.27	33.82	33.05	261	360	Average	VERTICAL
4	5204.40	107.40			100.36	6.27	33.82	33.05	261	360	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5076.40	52.85	54.00	-1.15	46.16	6.11	33.63	33.05	250	360	Average	VERTICAL
2	5149.20	67.46	74.00	-6.54	60.56	6.21	33.74	33.05	250	360	Peak	VERTICAL
3	5213.20	112.56			105.49	6.27	33.85	33.05	250	360	Peak	VERTICAL
4	5214.00	103.13			96.06	6.27	33.85	33.05	250	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5098.00	51.94	54.00	-2.06	45.19	6.14	33.66	33.05	245	301	Average	VERTICAL
2	5108.00	61.02	74.00	-12.98	54.24	6.14	33.69	33.05	245	301	Peak	VERTICAL
3	5258.00	103.03			95.85	6.34	33.90	33.06	245	301	Average	VERTICAL
4	5264.00	113.64			106.43	6.34	33.93	33.06	245	301	Peak	VERTICAL
5	5350.00	66.20	74.00	-7.80	58.73	6.47	34.06	33.06	245	301	Peak	VERTICAL
6	5414.00	52.61	54.00	-1.39	44.97	6.53	34.17	33.06	245	301	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5326.00	95.98			88.60	6.43	34.01	33.06	254	301	Average	VERTICAL
2	5328.00	104.74			97.34	6.43	34.03	33.06	254	301	Peak	VERTICAL
3	5352.00	52.46	54.00	-1.54	44.99	6.47	34.06	33.06	254	301	Average	VERTICAL
4	5354.00	66.06	74.00	-7.94	58.59	6.47	34.06	33.06	254	301	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5459.60	49.10	54.00	-4.90	41.34	6.60	34.22	33.06	230	360	Average	VERTICAL
2	5459.60	62.67	74.00	-11.33	54.91	6.60	34.22	33.06	230	360	Peak	VERTICAL
3	5467.60	66.57	68.20	-1.63	58.78	6.60	34.25	33.06	230	360	Peak	VERTICAL
4	5492.80	96.33			88.49	6.63	34.27	33.06	230	360	Average	VERTICAL
5	5501.60	107.47			99.59	6.65	34.30	33.07	230	360	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5394.00	52.91	54.00	-1.09	45.36	6.50	34.11	33.06	285	327	Average	VERTICAL
2	5394.00	63.74	74.00	-10.26	56.19	6.50	34.11	33.06	285	327	Peak	VERTICAL
3	5468.40	61.81	74.00	-12.19	54.02	6.60	34.25	33.06	285	327	Peak	VERTICAL
4	5469.20	50.81	54.00	-3.19	43.02	6.60	34.25	33.06	285	327	Average	VERTICAL
5	5535.60	103.02			95.10	6.68	34.32	33.08	285	327	Average	VERTICAL
6	5538.80	114.00			106.08	6.68	34.32	33.08	285	327	Peak	VERTICAL

Item 5, 6 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5416.80	62.05	74.00	-11.95	54.41	6.53	34.17	33.06	250	360	Peak	VERTICAL
2	5436.00	50.52	54.00	-3.48	42.83	6.56	34.19	33.06	250	360	Average	VERTICAL
3	5470.00	48.20	54.00	-5.80	40.41	6.60	34.25	33.06	250	360	Average	VERTICAL
4	5470.00	59.69	74.00	-14.31	51.90	6.60	34.25	33.06	250	360	Peak	VERTICAL
5	5656.80	103.67			95.61	6.79	34.39	33.12	250	360	Average	VERTICAL
6	5656.80	113.24			105.18	6.79	34.39	33.12	250	360	Peak	VERTICAL
7	5725.00	69.33	74.00	-4.67	61.20	6.83	34.43	33.13	250	360	Peak	VERTICAL
8	5732.40	52.81	54.00	-1.19	44.66	6.86	34.43	33.14	250	360	Average	VERTICAL

Item 5, 6 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 / 3TX

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5608.48	61.50	68.20	-6.70	53.39	7.87	31.89	31.65	103	248 Peak	VERTICAL
2	5771.04	92.22			83.98	7.83	32.13	31.72	103	248 Average	VERTICAL
3	5771.04	102.22			93.98	7.83	32.13	31.72	103	248 Peak	VERTICAL
4	5986.08	60.14	68.20	-8.06	51.47	8.01	32.47	31.81	103	248 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5648.16	62.37	68.20	-5.83	54.24	7.86	31.94	31.67	106	247 Peak	VERTICAL
2	5812.00	99.40			91.09	7.84	32.21	31.74	106	247 Average	VERTICAL
3	5812.00	109.55			101.24	7.84	32.21	31.74	106	247 Peak	VERTICAL
4	5969.44	61.81	68.20	-6.39	53.17	7.99	32.45	31.80	106	247 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 58 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.00	64.45	74.00	-9.55	57.55	6.21	33.74	33.05	300	357	Peak	VERTICAL
2	5148.00	52.62	54.00	-1.38	45.72	6.21	33.74	33.05	300	357	Average	VERTICAL
3	5178.00	96.13			89.15	6.24	33.79	33.05	300	357	Average	VERTICAL
4	5221.00	104.89			97.79	6.30	33.85	33.05	300	357	Peak	VERTICAL
5	5383.00	48.98	54.00	-5.02	41.43	6.50	34.11	33.06	300	357	Average	VERTICAL
6	5390.00	60.98	74.00	-13.02	53.43	6.50	34.11	33.06	300	357	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor				
						dB	dB/m	dB	cm	deg		
1	5092.00	47.70	54.00	-6.30	40.98	6.11	33.66	33.05	255	355	Average	VERTICAL
2	5140.00	59.14	74.00	-14.86	52.28	6.17	33.74	33.05	255	355	Peak	VERTICAL
3	5258.00	93.76			86.58	6.34	33.90	33.06	255	355	Average	VERTICAL
4	5259.00	104.30			97.09	6.34	33.93	33.06	255	355	Peak	VERTICAL
5	5361.00	52.23	54.00	-1.77	44.73	6.47	34.09	33.06	255	355	Average	VERTICAL
6	5368.00	64.99	74.00	-9.01	57.49	6.47	34.09	33.06	255	355	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106, 122, 155 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 106

	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	5448.00	64.74	74.00	-9.26	57.02	6.56	34.22	33.06	266	329	Peak	VERTICAL
2	5460.00	52.88	54.00	-1.12	45.12	6.60	34.22	33.06	266	329	Average	VERTICAL
3	5470.00	65.35	68.20	-2.85	57.56	6.60	34.25	33.06	266	329	Peak	VERTICAL
4	5507.00	107.68			99.80	6.65	34.30	33.07	266	329	Peak	VERTICAL
5	5537.00	94.87			86.95	6.68	34.32	33.08	266	329	Average	VERTICAL
6	5774.00	66.53	68.20	-1.67	58.33	6.88	34.47	33.15	266	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5530 MHz.

Channel 122

	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	5458.00	64.79	74.00	-9.21	57.03	6.60	34.22	33.06	283	329	Peak	VERTICAL
2	5459.00	52.52	54.00	-1.48	44.76	6.60	34.22	33.06	283	329	Average	VERTICAL
3	5463.00	66.85	68.20	-1.35	59.06	6.60	34.25	33.06	283	329	Peak	VERTICAL
4	5580.00	100.28			92.31	6.72	34.34	33.09	283	329	Average	VERTICAL
5	5587.00	113.76			105.78	6.72	34.35	33.09	283	329	Peak	VERTICAL
6	5751.00	62.70	68.20	-5.50	54.54	6.86	34.44	33.14	283	329	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5610 MHz.

Channel 155

	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	5584.16	60.88	68.20	-7.32	52.84	7.85	31.83	31.64	107	242	Peak	VERTICAL
2	5751.84	88.03			79.81	7.83	32.10	31.71	107	242	Average	VERTICAL
3	5787.68	100.13			91.89	7.82	32.15	31.73	107	242	Peak	VERTICAL
4	5978.40	60.82	68.20	-7.38	52.15	8.01	32.47	31.81	107	242	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Straddle Channel

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 144

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5727.20	115.97			107.84	6.83	34.43	33.13	259	110 Peak	VERTICAL
2	5728.00	106.03			97.90	6.83	34.43	33.13	259	110 Average	VERTICAL
3	5888.00	65.74	68.20	-2.46	57.40	6.99	34.54	33.19	259	110 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 20, 2015		

Channel 142

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor				
			dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5693.00	115.49			107.39	6.81	34.41	33.12	250	112	Peak	VERTICAL
2	5699.00	104.82			96.72	6.81	34.41	33.12	250	112	Average	VERTICAL
3	5858.00	65.15	68.20	-3.05	56.84	6.97	34.52	33.18	250	112	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5710 MHz.

Temperature	24°C	Humidity	65%
Test Engineer	Brian Sun	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 / 3TX
Test Date	Oct. 21, 2015		

Channel 138

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	5689.00	98.34			90.24	6.81	34.41	33.12	255	360	Average	VERTICAL
2	5702.00	108.29			100.18	6.81	34.42	33.12	255	360	Peak	VERTICAL
3	5877.00	61.96	68.20	-6.24	53.64	6.97	34.53	33.18	255	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4.8. Frequency Stability Measurement

4.8.1. Limit

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

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

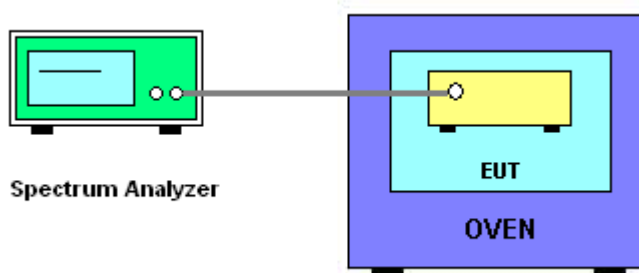
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is $0^\circ\text{C} \sim 50^\circ\text{C}$.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu	Test Date	Oct. 14, 2015

Mode: 20 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9654	5199.9640	5199.9622	5199.9601
110.00	5199.9642	5199.9629	5199.9613	5199.9594
93.50	5199.9628	5199.9617	5199.9605	5199.9583
Max. Deviation (MHz)	0.0372	0.0383	0.0395	0.0417
Max. Deviation (ppm)	7.15	7.37	7.60	8.02
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9667	5199.9655	5199.9636	5199.9614
10	5199.9654	5199.9641	5199.9626	5199.9608
20	5199.9642	5199.9629	5199.9613	5199.9594
30	5199.9628	5199.9617	5199.9603	5199.9587
40	5199.9612	5199.9597	5199.9581	5199.9561
50	5199.9595	5199.9583	5199.9568	5199.9541
Max. Deviation (MHz)	0.0405	0.0417	0.0432	0.0459
Max. Deviation (ppm)	7.79	8.02	8.31	8.83
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9669	5299.9655	5299.9637	5299.9616
110.00	5299.9657	5299.9644	5299.9628	5299.9609
93.50	5299.9643	5299.9632	5299.9620	5299.9598
Max. Deviation (MHz)	0.0357	0.0368	0.0380	0.0402
Max. Deviation (ppm)	6.73	6.94	7.16	7.58
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5299.9682	5299.9670	5299.9651	5299.9629
10	5299.9669	5299.9656	5299.9641	5299.9623
20	5299.9657	5299.9644	5299.9628	5299.9609
30	5299.9643	5299.9632	5299.9618	5299.9602
40	5299.9627	5299.9612	5299.9596	5299.9576
50	5299.9610	5299.9598	5299.9583	5299.9556
Max. Deviation (MHz)	0.0390	0.0402	0.0417	0.0444
Max. Deviation (ppm)	7.36	7.58	7.87	8.38
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9668	5579.9654	5579.9636	5579.9615
110.00	5579.9656	5579.9643	5579.9627	5579.9608
93.50	5579.9642	5579.9631	5579.9619	5579.9597
Max. Deviation (MHz)	0.0358	0.0369	0.0381	0.0403
Max. Deviation (ppm)	6.41	6.61	6.82	7.22
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5579.9688	5579.9676	5579.9657	5579.9635
10	5579.9675	5579.9662	5579.9647	5579.9629
20	5579.9663	5579.9650	5579.9634	5579.9615
30	5579.9649	5579.9638	5579.9624	5579.9608
40	5579.9633	5579.9618	5579.9602	5579.9582
50	5579.9616	5579.9604	5579.9589	5579.9562
Max. Deviation (MHz)	0.0384	0.0396	0.0411	0.0438
Max. Deviation (ppm)	6.88	7.10	7.37	7.85
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9867	5784.9853	5784.9835	5784.9814
110.00	5784.9855	5784.9842	5784.9826	5784.9807
93.50	5784.9841	5784.9830	5784.9818	5784.9796
Max. Deviation (MHz)	0.0159	0.0170	0.0182	0.0204
Max. Deviation (ppm)	2.75	2.94	3.15	3.53
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9880	5784.9868	5784.9849	5784.9827
10	5784.9867	5784.9854	5784.9839	5784.9821
20	5784.9855	5784.9842	5784.9826	5784.9807
30	5784.9841	5784.9830	5784.9816	5784.9800
40	5784.9825	5784.9810	5784.9794	5784.9774
50	5784.9808	5784.9796	5784.9781	5784.9754
Max. Deviation (MHz)	0.0192	0.0204	0.0219	0.0246
Max. Deviation (ppm)	3.32	3.53	3.79	4.25
Result	Complies			

Mode: 40 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9758	5189.9744	5189.9726	5189.9705
110.00	5189.9746	5189.9733	5189.9717	5189.9698
93.50	5189.9732	5189.9721	5189.9709	5189.9687
Max. Deviation (MHz)	0.0268	0.0279	0.0291	0.0313
Max. Deviation (ppm)	5.16	5.38	5.61	6.03
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9771	5189.9759	5189.9740	5189.9718
10	5189.9758	5189.9745	5189.9730	5189.9712
20	5189.9746	5189.9733	5189.9717	5189.9698
30	5189.9732	5189.9721	5189.9707	5189.9691
40	5189.9716	5189.9701	5189.9685	5189.9665
50	5189.9699	5189.9687	5189.9672	5189.9645
Max. Deviation (MHz)	0.0301	0.0313	0.0328	0.0355
Max. Deviation (ppm)	5.80	6.03	6.32	6.84
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9865	5309.9851	5309.9833	5309.9812
110.00	5309.9853	5309.9840	5309.9824	5309.9805
93.50	5309.9839	5309.9828	5309.9816	5309.9794
Max. Deviation (MHz)	0.0161	0.0172	0.0184	0.0206
Max. Deviation (ppm)	3.03	3.24	3.47	3.88
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5309.9878	5309.9866	5309.9847	5309.9825
10	5309.9865	5309.9852	5309.9837	5309.9819
20	5309.9853	5309.9840	5309.9824	5309.9805
30	5309.9839	5309.9828	5309.9814	5309.9798
40	5309.9823	5309.9808	5309.9792	5309.9772
50	5309.9806	5309.9794	5309.9779	5309.9752
Max. Deviation (MHz)	0.0194	0.0206	0.0221	0.0248
Max. Deviation (ppm)	3.65	3.88	4.16	4.67
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9689	5549.9675	5549.9657	5549.9636
110.00	5549.9677	5549.9664	5549.9648	5549.9629
93.50	5549.9663	5549.9652	5549.9640	5549.9618
Max. Deviation (MHz)	0.0337	0.0348	0.0360	0.0382
Max. Deviation (ppm)	6.07	6.27	6.49	6.88
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5549.9702	5549.9690	5549.9671	5549.9649
10	5549.9689	5549.9676	5549.9661	5549.9643
20	5549.9677	5549.9664	5549.9648	5549.9629
30	5549.9663	5549.9652	5549.9638	5549.9622
40	5549.9647	5549.9632	5549.9616	5549.9596
50	5549.9630	5549.9618	5549.9603	5549.9576
Max. Deviation (MHz)	0.0370	0.0382	0.0397	0.0424
Max. Deviation (ppm)	6.67	6.88	7.15	7.64
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9797	5754.9783	5754.9765	5754.9744
110.00	5754.9785	5754.9772	5754.9756	5754.9737
93.50	5754.9771	5754.9760	5754.9748	5754.9726
Max. Deviation (MHz)	0.0229	0.0240	0.0252	0.0274
Max. Deviation (ppm)	3.98	4.17	4.38	4.76
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9810	5754.9798	5754.9779	5754.9757
10	5754.9797	5754.9784	5754.9769	5754.9751
20	5754.9785	5754.9772	5754.9756	5754.9737
30	5754.9771	5754.9760	5754.9746	5754.9730
40	5754.9755	5754.9740	5754.9724	5754.9704
50	5754.9738	5754.9726	5754.9711	5754.9684
Max. Deviation (MHz)	0.0262	0.0274	0.0289	0.0316
Max. Deviation (ppm)	4.55	4.76	5.02	5.49
Result	Complies			

Mode: 80 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9690	5209.9676	5209.9658	5209.9637
110.00	5209.9678	5209.9665	5209.9649	5209.9630
93.50	5209.9664	5209.9653	5209.9641	5209.9619
Max. Deviation (MHz)	0.0336	0.0347	0.0359	0.0381
Max. Deviation (ppm)	6.45	6.66	6.89	7.31
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9703	5209.9691	5209.9672	5209.9650
10	5209.9690	5209.9677	5209.9662	5209.9644
20	5209.9678	5209.9665	5209.9649	5209.9630
30	5209.9664	5209.9653	5209.9639	5209.9623
40	5209.9648	5209.9633	5209.9617	5209.9597
50	5209.9631	5209.9619	5209.9604	5209.9577
Max. Deviation (MHz)	0.0369	0.0381	0.0396	0.0423
Max. Deviation (ppm)	7.08	7.31	7.60	8.12
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9856	5289.9842	5289.9824	5289.9803
110.00	5289.9844	5289.9831	5289.9815	5289.9796
93.50	5289.9830	5289.9819	5289.9807	5289.9785
Max. Deviation (MHz)	0.0181	0.0193	0.0215	0.0181
Max. Deviation (ppm)	3.42	3.65	4.06	3.42
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5289.9869	5289.9857	5289.9838	5289.9816
10	5289.9856	5289.9843	5289.9828	5289.9810
20	5289.9844	5289.9831	5289.9815	5289.9796
30	5289.9830	5289.9819	5289.9805	5289.9789
40	5289.9814	5289.9799	5289.9783	5289.9763
50	5289.9797	5289.9785	5289.9770	5289.9743
Max. Deviation (MHz)	0.0203	0.0215	0.0230	0.0257
Max. Deviation (ppm)	3.84	4.06	4.35	4.86
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9876	5529.9862	5529.9844	5529.9823
110.00	5529.9864	5529.9851	5529.9835	5529.9816
93.50	5529.9850	5529.9839	5529.9827	5529.9805
Max. Deviation (MHz)	0.0150	0.0161	0.0173	0.0195
Max. Deviation (ppm)	2.71	2.91	3.13	3.53
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5529.9889	5529.9877	5529.9858	5529.9836
10	5529.9876	5529.9863	5529.9848	5529.9830
20	5529.9864	5529.9851	5529.9835	5529.9816
30	5529.9850	5529.9839	5529.9825	5529.9809
40	5529.9834	5529.9819	5529.9803	5529.9783
50	5529.9817	5529.9805	5529.9790	5529.9763
Max. Deviation (MHz)	0.0183	0.0195	0.0210	0.0237
Max. Deviation (ppm)	3.31	3.53	3.80	4.29
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9768	5774.9754	5774.9736	5774.9715
110.00	5774.9756	5774.9743	5774.9727	5774.9708
93.50	5774.9742	5774.9731	5774.9719	5774.9697
Max. Deviation (MHz)	0.0258	0.0269	0.0281	0.0303
Max. Deviation (ppm)	4.47	4.66	4.87	5.25
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9781	5774.9769	5774.9750	5774.9728
10	5774.9768	5774.9755	5774.9740	5774.9722
20	5774.9756	5774.9743	5774.9727	5774.9708
30	5774.9742	5774.9731	5774.9717	5774.9701
40	5774.9726	5774.9711	5774.9695	5774.9675
50	5774.9709	5774.9697	5774.9682	5774.9655
Max. Deviation (MHz)	0.0291	0.0303	0.0318	0.0345
Max. Deviation (ppm)	5.04	5.25	5.51	5.97
Result	Complies			

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	Dec. 03, 2014	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	May 06, 2015	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (10CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~ 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz ~ 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410002	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

“*” Calibration Interval of instruments listed above is two years.

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

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%

Appendix B. Maximum e.i.r.p. at any elevation angle above 30 degrees

1. Maximum e.i.r.p. at any elevation angle above 30 degrees

For 1TX

Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Chain (dBm)	Elevation angle above 30°	Elevation angle above 30°	EIRP Power Limit (dBm)	Test Result
						1	Max gain (dBi)	Max EIRP (dBm)		
Non BF	5180MHz	OFDM	Ch36	6Mbps	68	16.84	4.10	20.94	21	Complies
	5200MHz	OFDM	Ch40	6Mbps	68	16.86	4.10	20.96	21	Complies
	5240MHz	OFDM	Ch48	6Mbps	67	16.71	4.10	20.81	21	Complies
	5180MHz	VHT20	Ch36	MCS0-Nss1	68	16.81	4.10	20.91	21	Complies
	5200MHz	VHT20	Ch40	MCS0-Nss1	68	16.73	4.10	20.83	21	Complies
	5240MHz	VHT20	Ch48	MCS0-Nss1	68	16.88	4.10	20.98	21	Complies
	5190MHz	VHT40	Ch38	MCS0-Nss1	68	16.84	4.10	20.94	21	Complies
	5230MHz	VHT40	Ch46	MCS0-Nss1	67	16.82	4.10	20.92	21	Complies
	5210MHz	VHT80	Ch42	MCS0-Nss1	65	16.81	4.10	20.91	21	Complies

For 2TX

Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Chain (dBm)			Elevation angle above 30°	Elevation angle above 30°	EIRP Power Limit (dBm)	Test Result
						1	2	Total	Max gain (dBi)	Max EIRP (dBm)		
Non BF	5180MHz	OFDM	Ch36	6Mbps	55	13.78	13.89	16.85	4.10	20.95	21	Complies
	5200MHz	OFDM	Ch40	6Mbps	55	13.72	13.81	16.78	4.10	20.88	21	Complies
	5240MHz	OFDM	Ch48	6Mbps	55	13.92	13.72	16.83	4.10	20.93	21	Complies
	5180MHz	VHT20	Ch36	MCS0-Nss1	55	13.59	13.64	16.63	4.10	20.73	21	Complies
	5200MHz	VHT20	Ch40	MCS0-Nss1	55	13.79	13.82	16.82	4.10	20.92	21	Complies
	5240MHz	VHT20	Ch48	MCS0-Nss1	55	13.65	13.53	16.60	4.10	20.70	21	Complies
	5190MHz	VHT40	Ch38	MCS0-Nss1	55	13.76	13.62	16.70	4.10	20.80	21	Complies
	5230MHz	VHT40	Ch46	MCS0-Nss1	55	13.56	14.14	16.87	4.10	20.97	21	Complies
	5210MHz	VHT80	Ch42	MCS0-Nss1	51	13.34	12.49	15.95	4.10	20.05	21	Complies
BF	5180MHz	VHT20	Ch36	MCS0-Nss1	43	10.53	10.75	13.65	7.11	20.76	21	Complies
	5200MHz	VHT20	Ch40	MCS0-Nss1	43	10.35	10.82	13.60	7.11	20.71	21	Complies
	5240MHz	VHT20	Ch48	MCS0-Nss1	43	10.77	10.57	13.68	7.11	20.79	21	Complies
	5190MHz	VHT40	Ch38	MCS0-Nss1	42	10.67	10.82	13.76	7.11	20.87	21	Complies
	5230MHz	VHT40	Ch46	MCS0-Nss1	42	10.82	10.72	13.78	7.11	20.89	21	Complies
	5210MHz	VHT80	Ch42	MCS0-Nss1	40	10.85	10.52	13.70	7.11	20.81	21	Complies

Note: BF: Beamforming

For 3TX

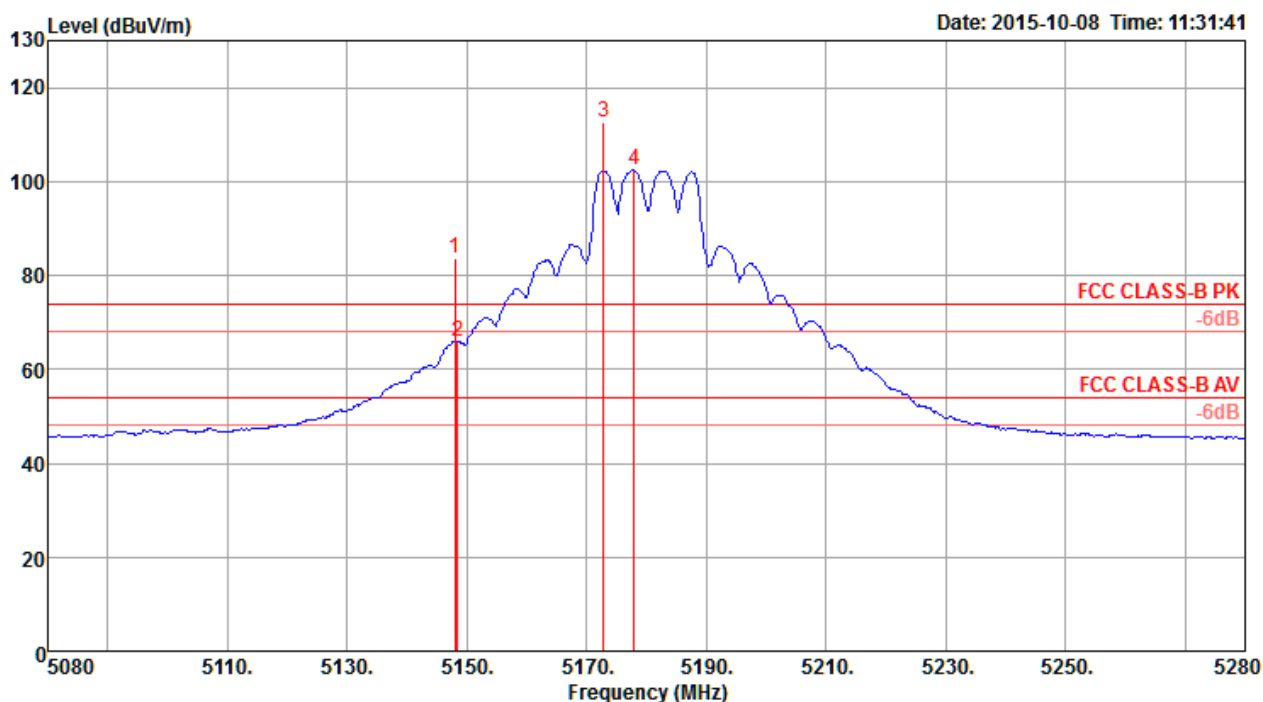
Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Chain (dBm)				Elevation angle above 30°	Elevation angle above 30°	EIRP Power Limit (dBm)	Test Result
						1	2	3	Total	Max gain (dBi)	Max EIRP (dBm)		
Non BF	5180MHz	OFDM	Ch36	6Mbps	50	12.36	11.94	11.64	16.76	4.10	20.86	21	Complies
	5200MHz	OFDM	Ch40	6Mbps	50	12.27	12.14	11.85	16.86	4.10	20.96	21	Complies
	5240MHz	OFDM	Ch48	6Mbps	50	12.54	12.08	11.58	16.86	4.10	20.96	21	Complies
	5180MHz	VHT20	Ch36	MCS0-Nss1	50	12.15	12.13	11.72	16.78	4.10	20.88	21	Complies
	5200MHz	VHT20	Ch40	MCS0-Nss1	50	12.19	12.08	11.94	16.84	4.10	20.94	21	Complies
	5240MHz	VHT20	Ch48	MCS0-Nss1	50	12.29	12.06	11.77	16.82	4.10	20.92	21	Complies
	5190MHz	VHT40	Ch38	MCS0-Nss1	48	12.14	12.05	11.52	16.68	4.10	20.78	21	Complies
	5230MHz	VHT40	Ch46	MCS0-Nss1	48	11.78	12.06	12.03	16.73	4.10	20.83	21	Complies
	5210MHz	VHT80	Ch42	MCS0-Nss1	41	11.03	10.45	11.02	15.61	4.10	19.71	21	Complies
BF	5180MHz	VHT20	Ch36	MCS0-Nss1	31	7.52	7.37	6.95	12.06	8.87	20.93	21	Complies
	5200MHz	VHT20	Ch40	MCS0-Nss1	30	7.48	7.39	6.78	12.00	8.87	20.87	21	Complies
	5240MHz	VHT20	Ch48	MCS0-Nss1	30	7.38	7.19	6.53	11.82	8.87	20.69	21	Complies
	5190MHz	VHT40	Ch38	MCS0-Nss1	29	6.95	7.51	7.24	12.01	8.87	20.88	21	Complies
	5230MHz	VHT40	Ch46	MCS0-Nss1	29	7.04	7.21	6.95	11.84	8.87	20.71	21	Complies
	5210MHz	VHT80	Ch42	MCS0-Nss1	26	7.12	7.36	7.28	12.03	8.87	20.90	21	Complies

Note: BF: Beamforming

Appendix C. Verification Worst Case

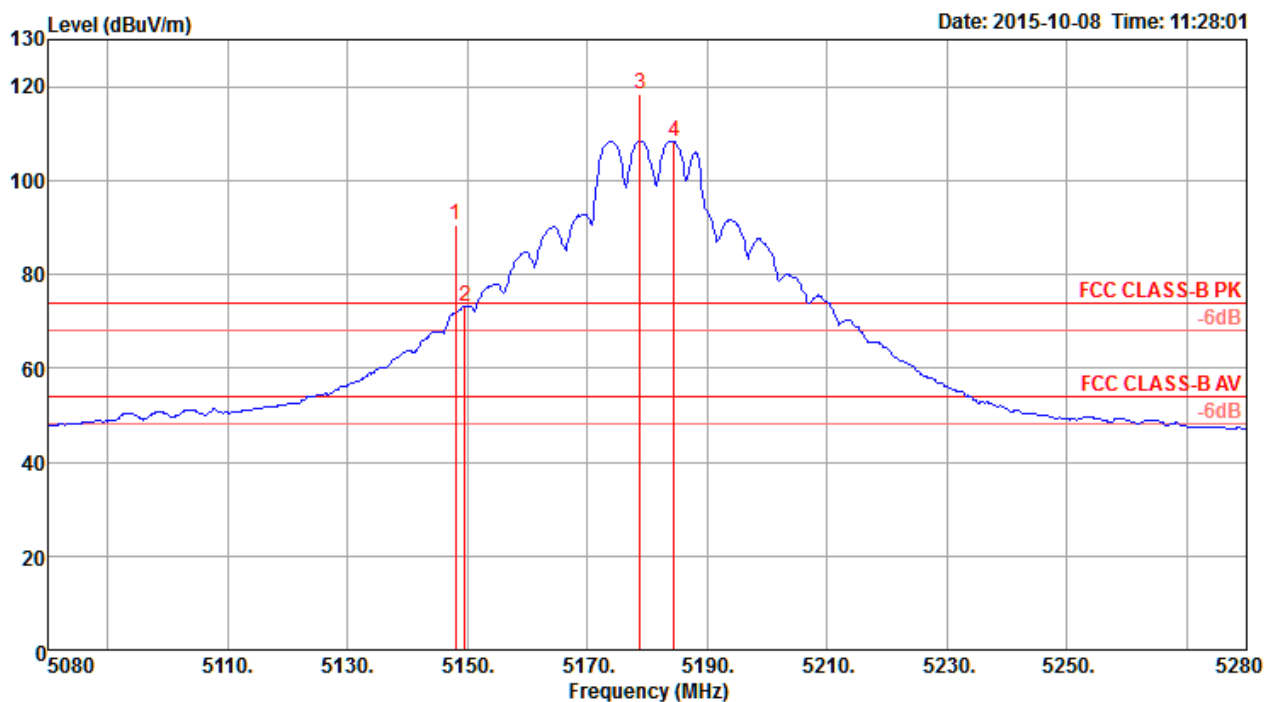
For Non-Beamforming Mode

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu / Eric Fu	Configurations	IEEE 802.11a CH 1 / Chain 1 + Chain 2



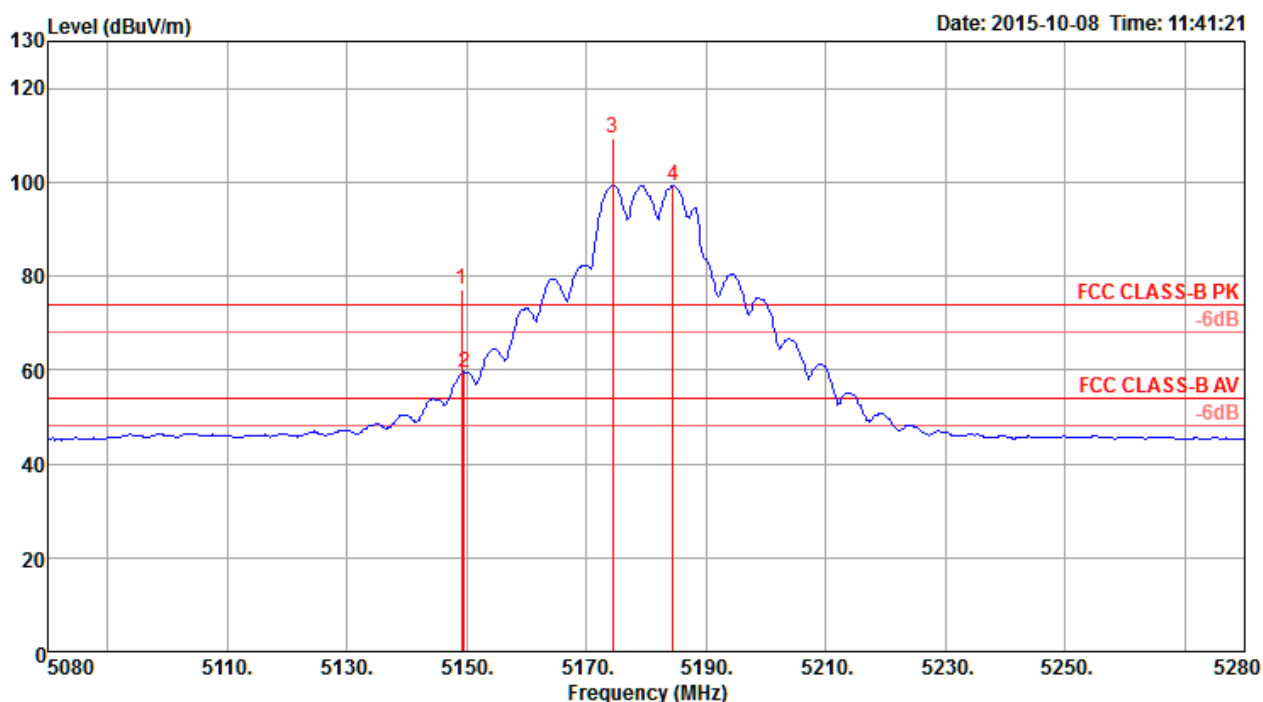
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.00	83.66	74.00	9.66	79.02	5.84	33.27	34.47	117	104	Peak	HORIZONTAL
2	5148.40	65.90	54.00	11.90	61.26	5.84	33.27	34.47	117	104	Average	HORIZONTAL
3	5172.80	112.50	74.00	38.50	107.84	5.83	33.30	34.47	117	104	Peak	HORIZONTAL
4	5178.00	102.42	54.00	48.42	97.74	5.82	33.33	34.47	117	104	Average	HORIZONTAL

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu / Eric Fu	Configurations	IEEE 802.11a CH 1 / Chain 1 + Chain 2



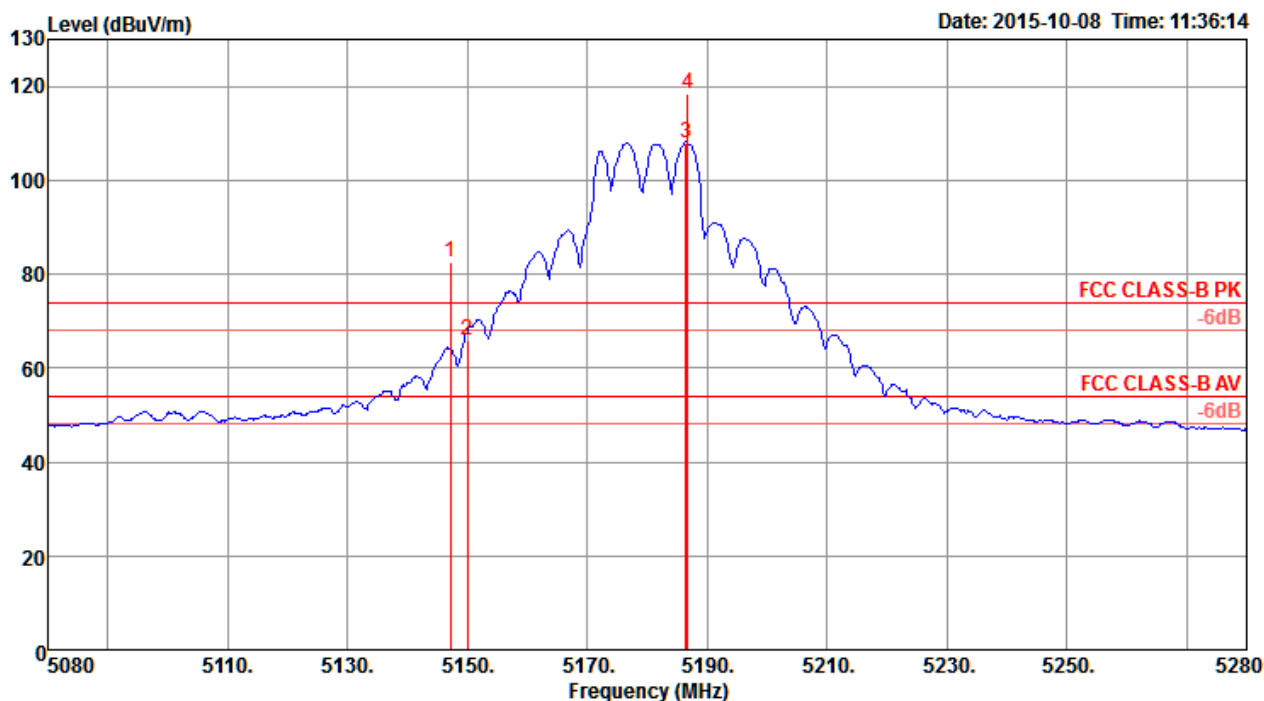
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.00	90.51	74.00	16.51	85.87	5.84	33.27	34.47	358	271	Peak	VERTICAL
2	5149.60	73.14	54.00	19.14	68.50	5.84	33.27	34.47	358	271	Average	VERTICAL
3	5178.80	118.41	74.00	44.41	113.73	5.82	33.33	34.47	358	271	Peak	VERTICAL
4	5184.40	108.40	54.00	54.40	103.72	5.82	33.33	34.47	358	271	Average	VERTICAL

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu / Eric Fu	Configurations	IEEE 802.11a CH 1 / Chain 1 + Chain 3



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.20	77.09	74.00	3.09	72.45	5.84	33.27	34.47	79	126	Peak	HORIZONTAL
2	5149.60	59.42	54.00	5.42	54.78	5.84	33.27	34.47	79	126	Average	HORIZONTAL
3	5174.40	109.51	74.00	35.51	104.83	5.82	33.33	34.47	79	126	Peak	HORIZONTAL
4	5184.40	99.22	54.00	45.22	94.54	5.82	33.33	34.47	79	126	Average	HORIZONTAL

Temperature	24°C	Humidity	65%
Test Engineer	Roki Liu / Eric Fu	Configurations	IEEE 802.11a CH 1 / Chain 1 + Chain 3



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5147.20	82.48	74.00	8.48	77.84	5.84	33.27	34.47	181	284	Peak	VERTICAL
2	5150.00	65.94	54.00	11.94	61.30	5.84	33.27	34.47	181	284	Average	VERTICAL
3	5186.40	108.08	54.00	54.08	103.40	5.82	33.33	34.47	181	284	Average	VERTICAL
4	5186.80	118.53	74.00	44.53	113.85	5.82	33.33	34.47	181	284	Peak	VERTICAL