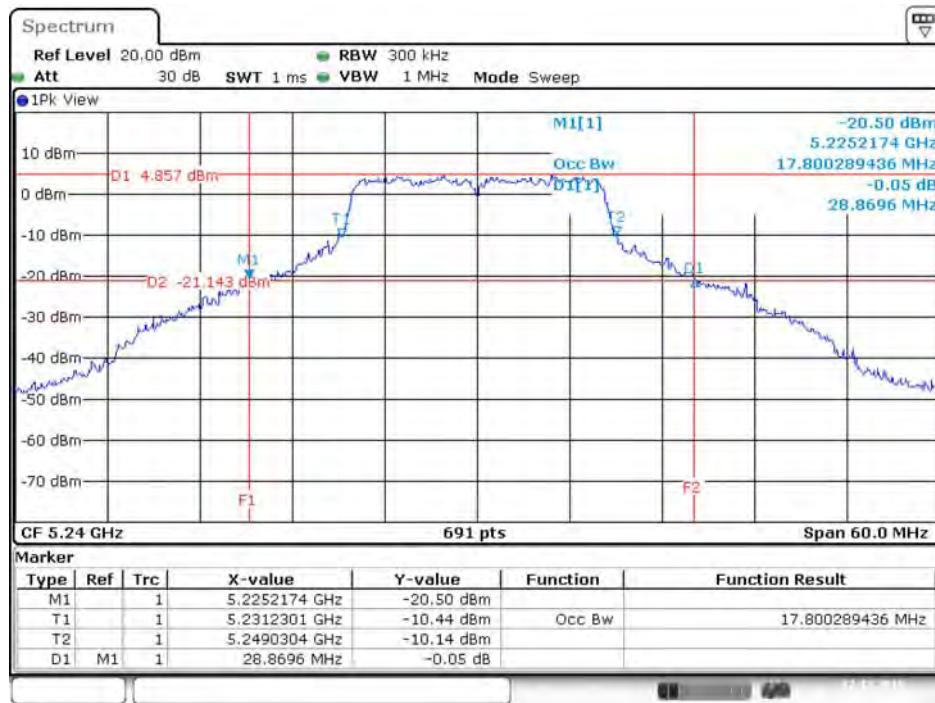
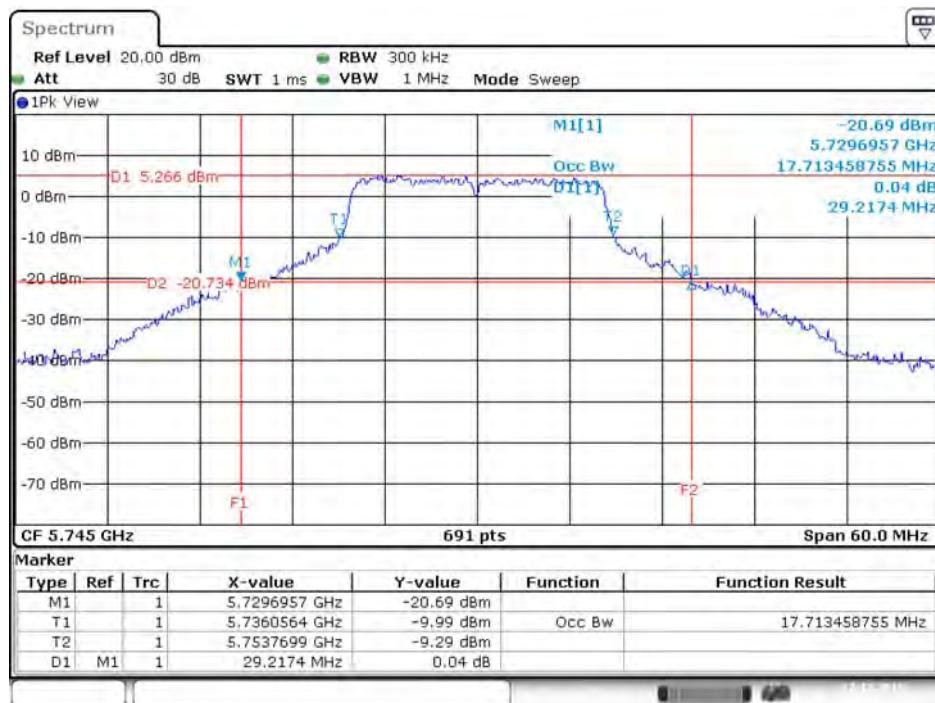


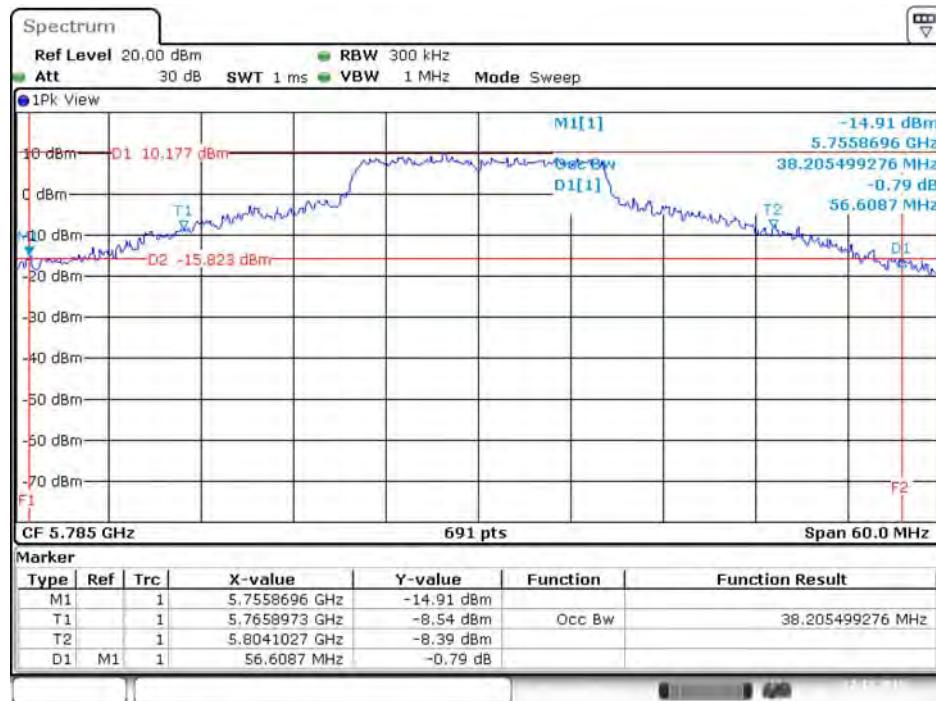
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5240 MHz



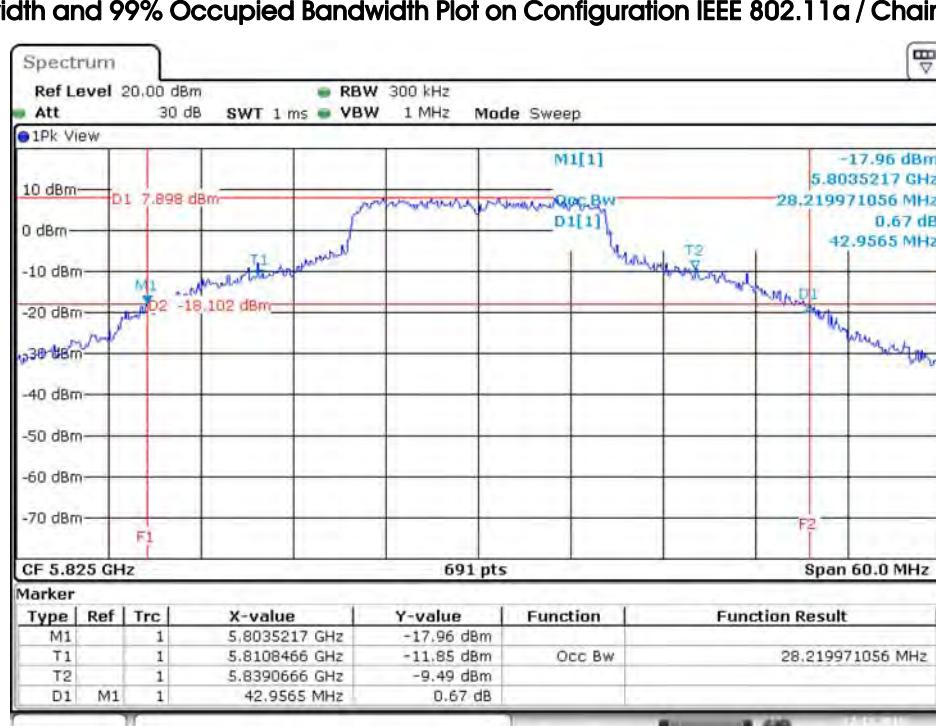
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5745 MHz



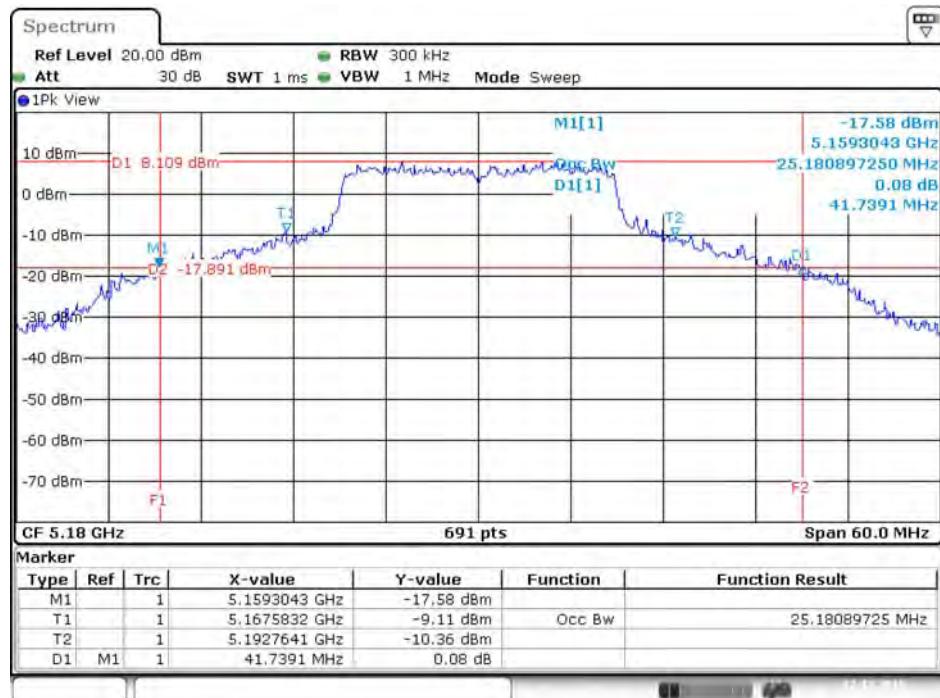
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5785 MHz



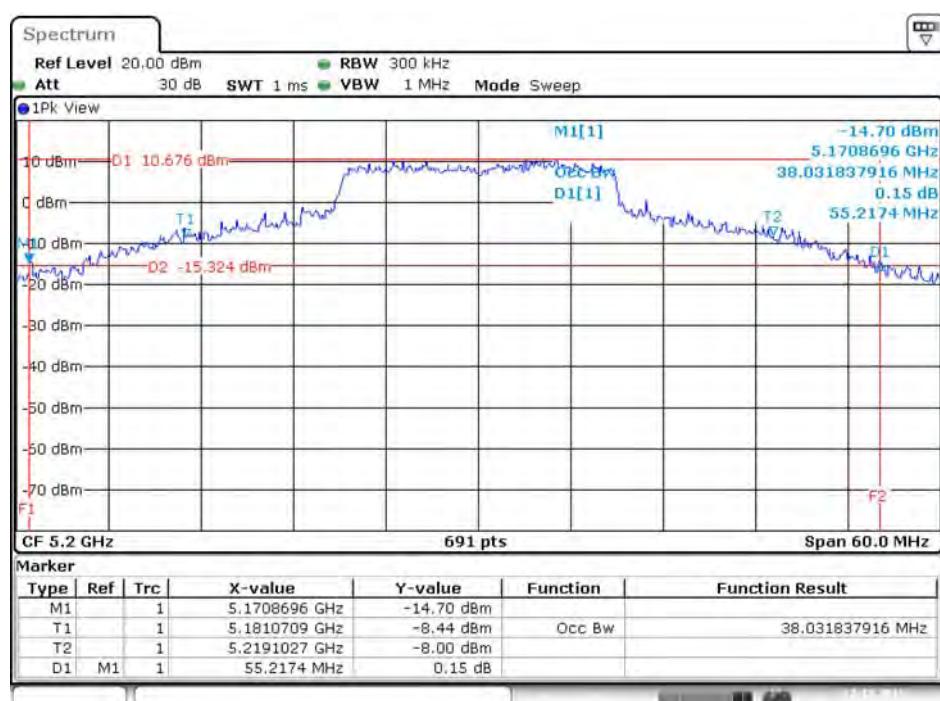
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5825 MHz



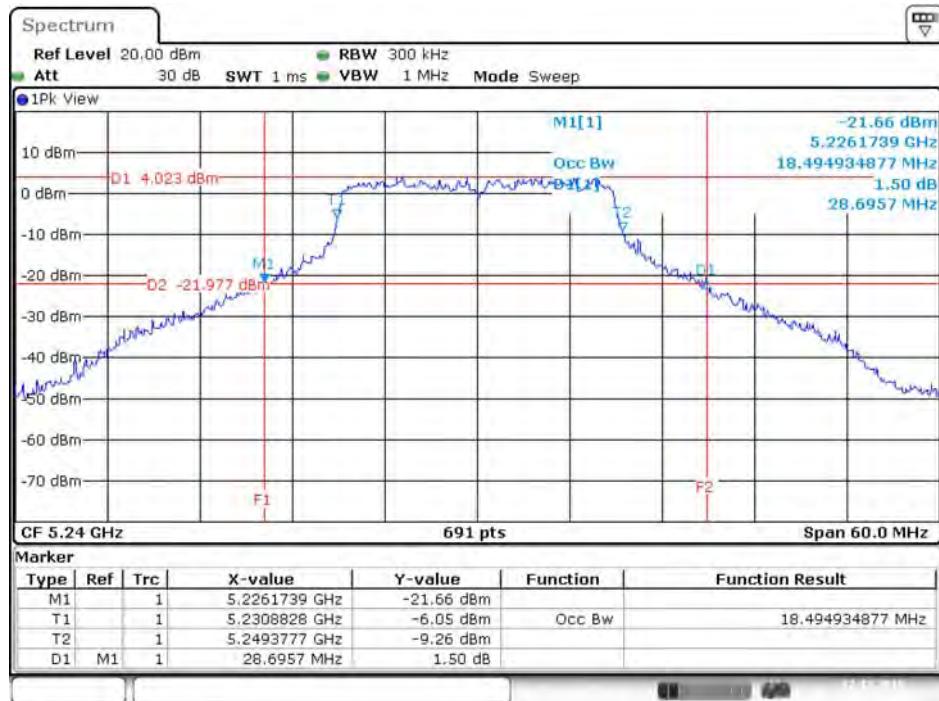
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5180 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5200 MHz

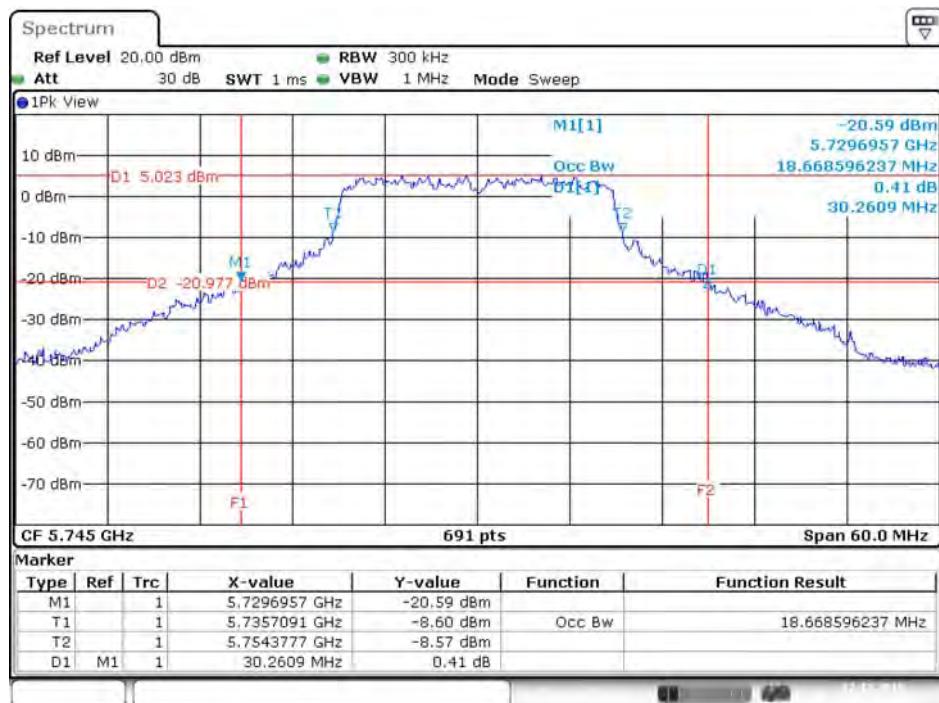


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5240 MHz



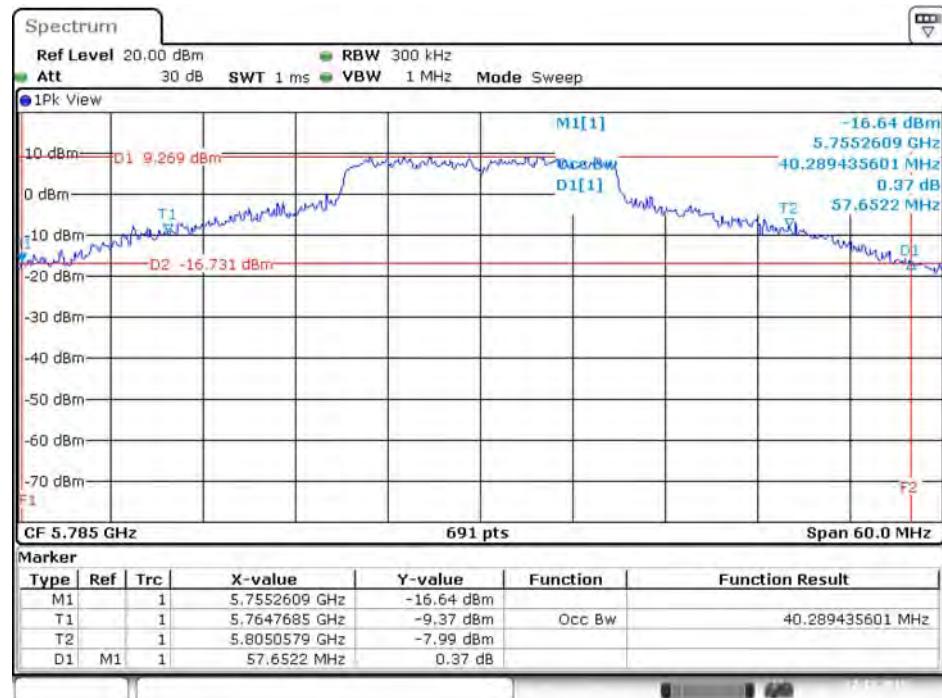
Date: 22.DEC.2015 16:14:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5745 MHz



Date: 22.DEC.2015 16:22:03

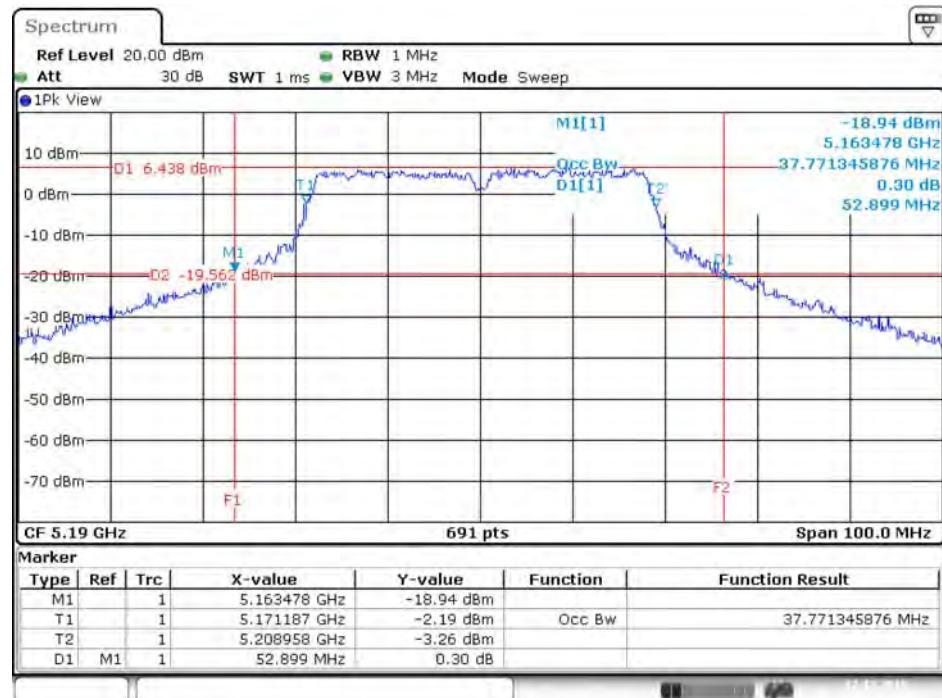
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5785 MHz



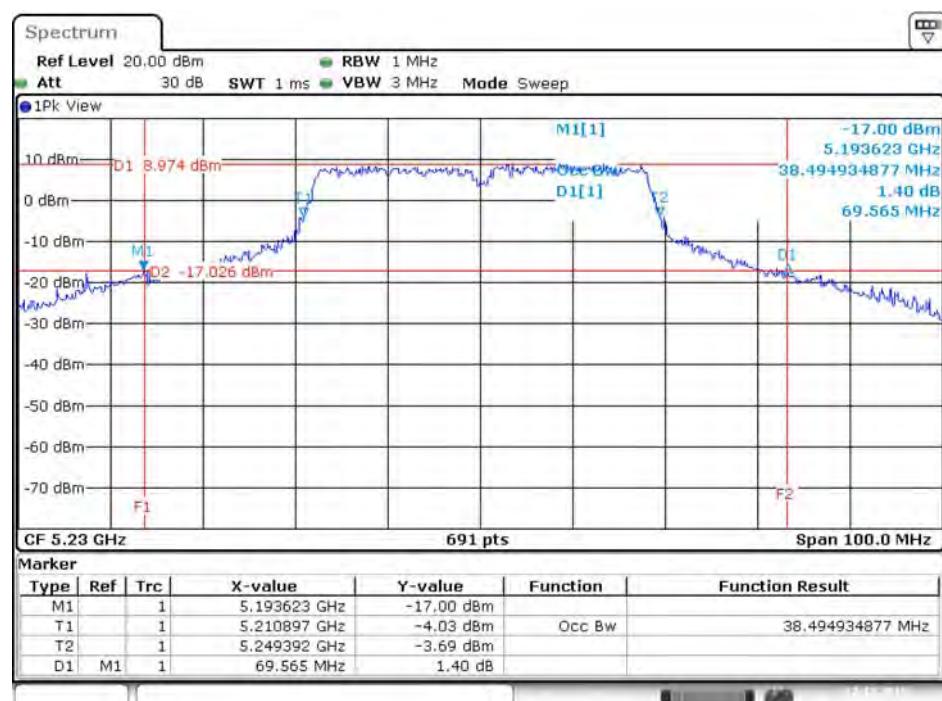
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5825 MHz



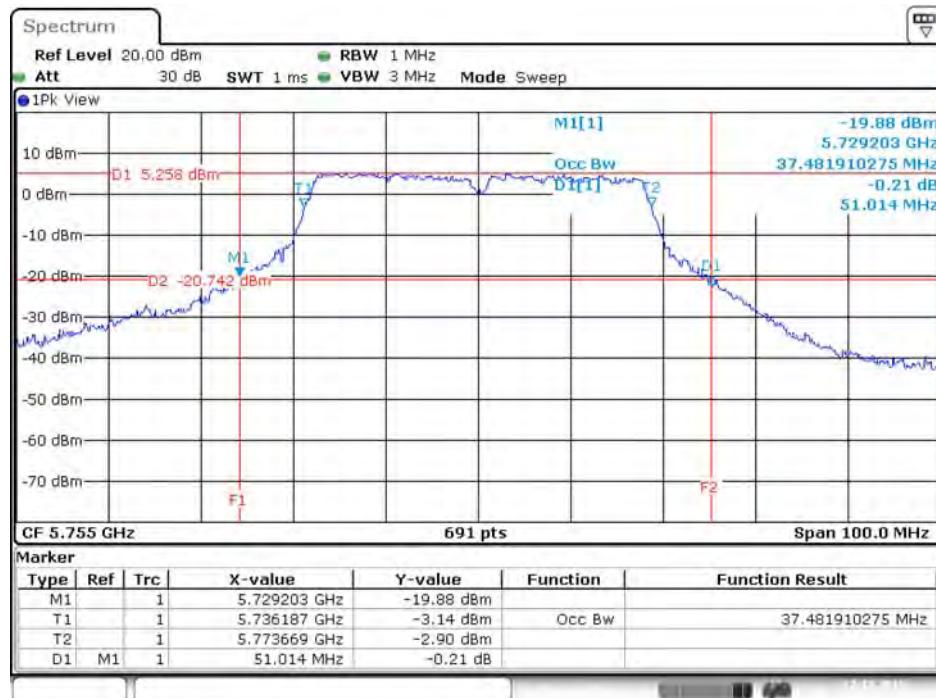
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5190 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5230 MHz

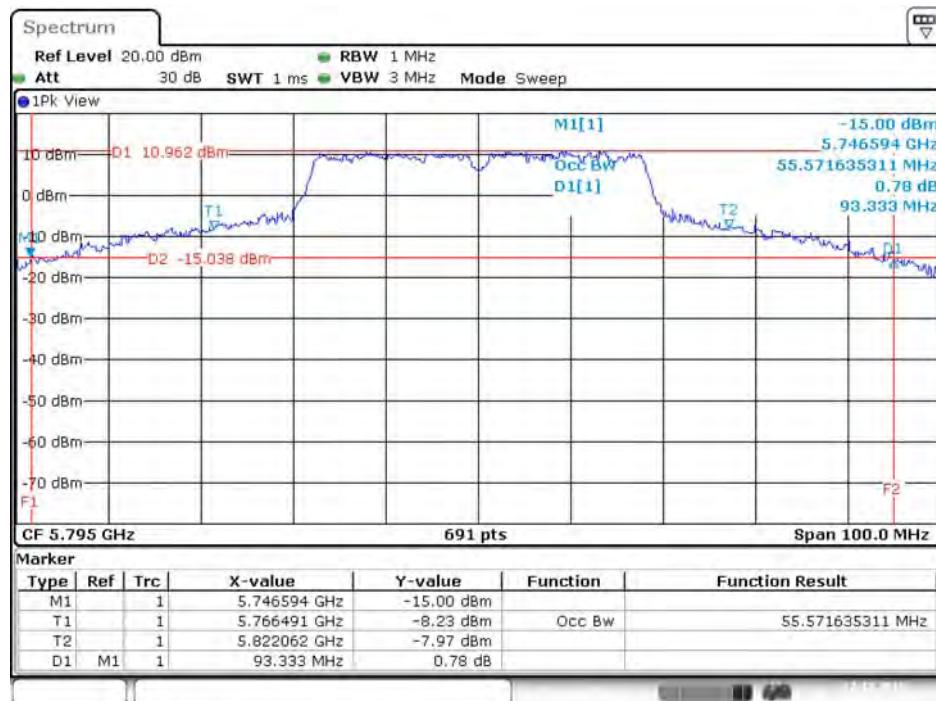


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5755 MHz



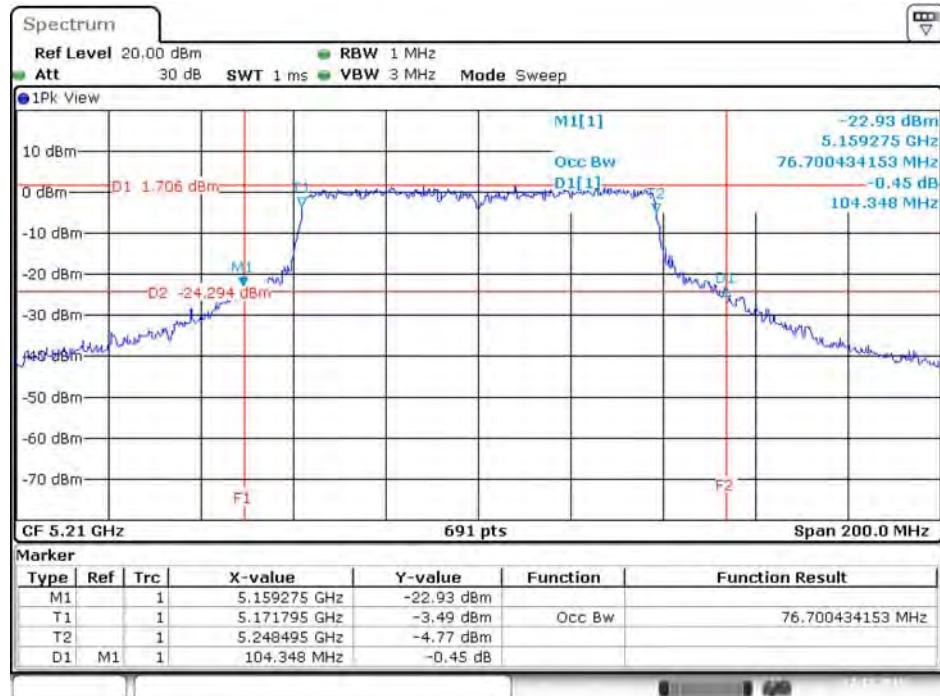
Date: 22.DEC.2015 15:56:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795 MHz

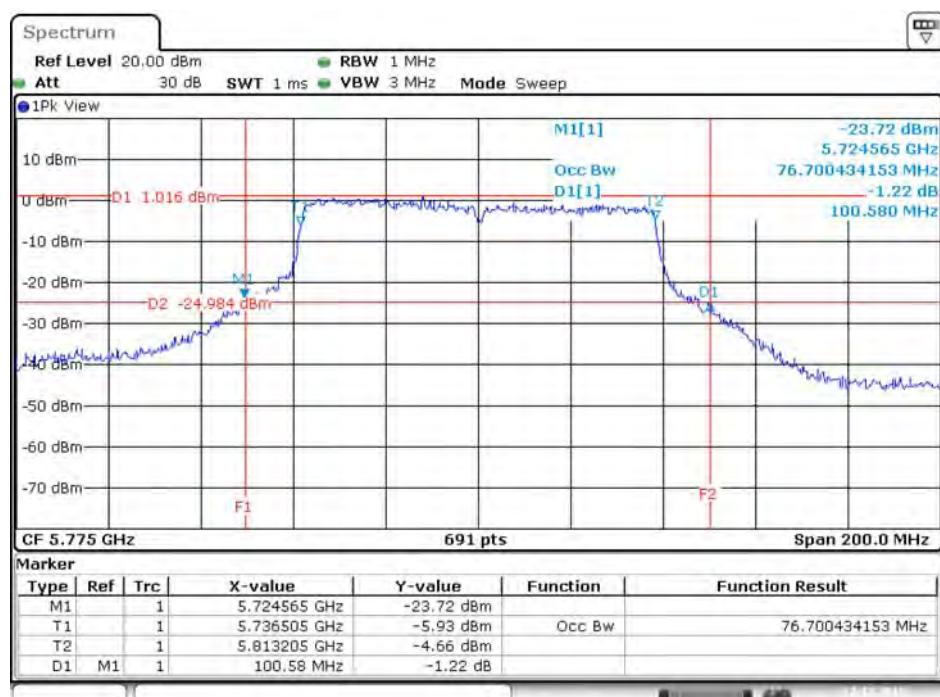


Date: 22.DEC.2015 15:57:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5210 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



4.3. 6dB Spectrum Bandwidth Measurement

4.3.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.3.2. Measuring Instruments and Setting

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

6dB Spectrum Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RBW	100kHz
VBW	$\geq 3 \times RBW$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3.3. Test Procedures

1. The transmitter was conducted to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth.
3. Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. Measurement perform conducted of each port.
5. Measured the spectrum width with power higher than 6dB below carrier.

4.3.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of 6dB Spectrum Bandwidth

Temperature	25°C	Humidity	45%
Test Engineer	Mars Lin		

<For Radio 2 Non-beamforming Mode>

Mode	Frequency	6dB Bandwidth (MHz)				Min. Limit (kHz)	Test Result
		Chain 5	Chain 6	Chain 7	Chain 8		
802.11a	5745 MHz	16.12	16.35	16.35	16.35	500	Complies
	5785 MHz	16.35	16.35	16.23	16.52	500	Complies
	5825 MHz	16.35	16.35	16.06	16.35	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	17.62	16.58	17.62	17.28	500	Complies
	5785 MHz	17.62	17.57	17.74	17.68	500	Complies
	5825 MHz	17.57	17.57	17.68	17.57	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	35.94	36.29	35.36	35.71	500	Complies
	5795 MHz	35.71	35.13	35.13	36.41	500	Complies
	5775 MHz	75.94	75.65	75.94	75.94	500	Complies
802.11ac MCS0/Nss4 VHT20	5745 MHz	17.62	17.74	17.74	17.68	500	Complies
	5785 MHz	17.74	17.68	17.74	17.74	500	Complies
	5825 MHz	17.68	17.74	17.62	17.74	500	Complies
802.11ac MCS0/Nss4 VHT40	5755 MHz	36.41	36.41	36.29	36.41	500	Complies
	5795 MHz	36.41	36.29	36.41	36.41	500	Complies
	5775 MHz	76.52	76.52	76.52	76.52	500	Complies



Mode	Frequency	6dB Bandwidth (MHz)		Min. Limit (kHz)	Test Result
		Chain 7	Chain 8		
802.11ac MCS0/Nss2 VHT80+80	5210 MHz	-	-	500	Complies
	5775 MHz	74.78	75.94		

<For Radio 2 Beamforming Mode>

Mode	Frequency	6dB Bandwidth (MHz)				Min. Limit (kHz)	Test Result
		Chain 5	Chain 6	Chain 7	Chain 8		
802.11ac MCS0/Nss1 VHT20	5745 MHz	17.62	17.57	17.51	17.62	500	Complies
	5785 MHz	17.62	17.68	17.16	17.62	500	Complies
	5825 MHz	17.62	17.62	17.62	17.57	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	35.71	35.71	35.36	35.36	500	Complies
	5795 MHz	35.83	35.36	36.41	34.78	500	Complies
	5775 MHz	75.94	76.52	76.52	75.94	500	Complies
802.11ac MCS0/Nss2 VHT20	5745 MHz	17.62	17.62	17.62	17.68	500	Complies
	5785 MHz	17.62	17.33	17.62	17.62	500	Complies
	5825 MHz	17.62	17.62	17.62	17.62	500	Complies
802.11ac MCS0/Nss2 VHT40	5755 MHz	35.94	35.94	35.94	35.94	500	Complies
	5795 MHz	35.94	35.94	35.94	35.94	500	Complies
	5775 MHz	75.94	75.94	75.94	75.94	500	Complies
802.11ac MCS0/Nss3 VHT20	5745 MHz	17.68	17.74	17.74	17.80	500	Complies
	5785 MHz	17.68	17.74	17.68	17.57	500	Complies
	5825 MHz	17.62	17.68	17.57	17.68	500	Complies
802.11ac MCS0/Nss3 VHT40	5755 MHz	36.41	36.41	36.06	35.36	500	Complies
	5795 MHz	36.41	36.41	36.06	35.71	500	Complies
	5775 MHz	76.52	76.52	75.65	75.65	500	Complies



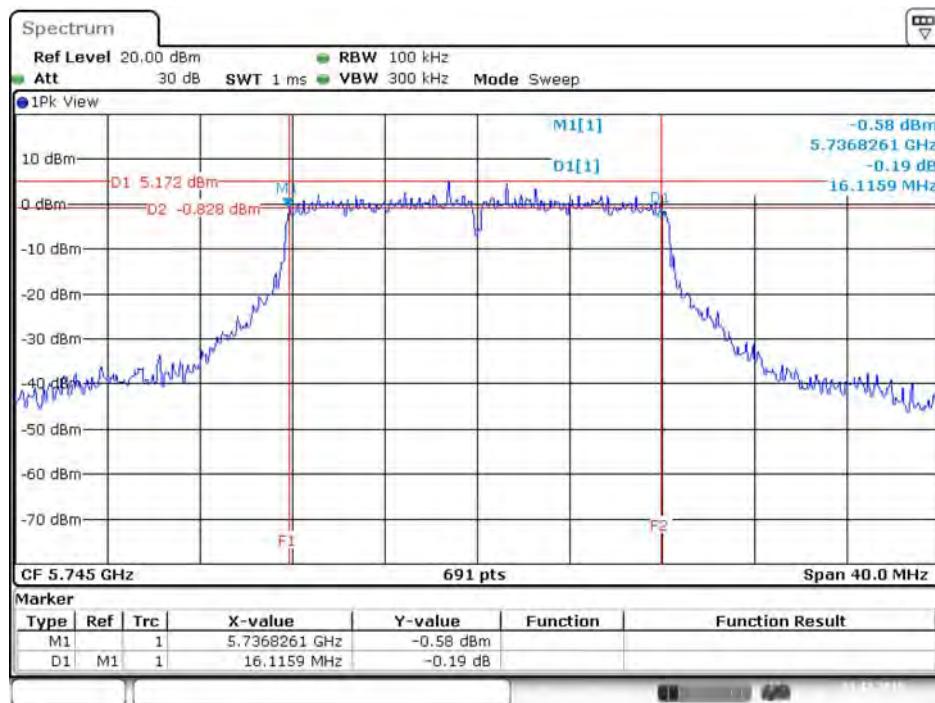
Mode	Frequency	6dB Bandwidth (MHz)		Min. Limit (kHz)	Test Result
		Chain 7	Chain 8		
802.11ac MCS0/Nss2 VHT80+80	5210 MHz	-	-	500	Complies
	5775 MHz	75.36	75.94		

<For Radio 3 Mode>

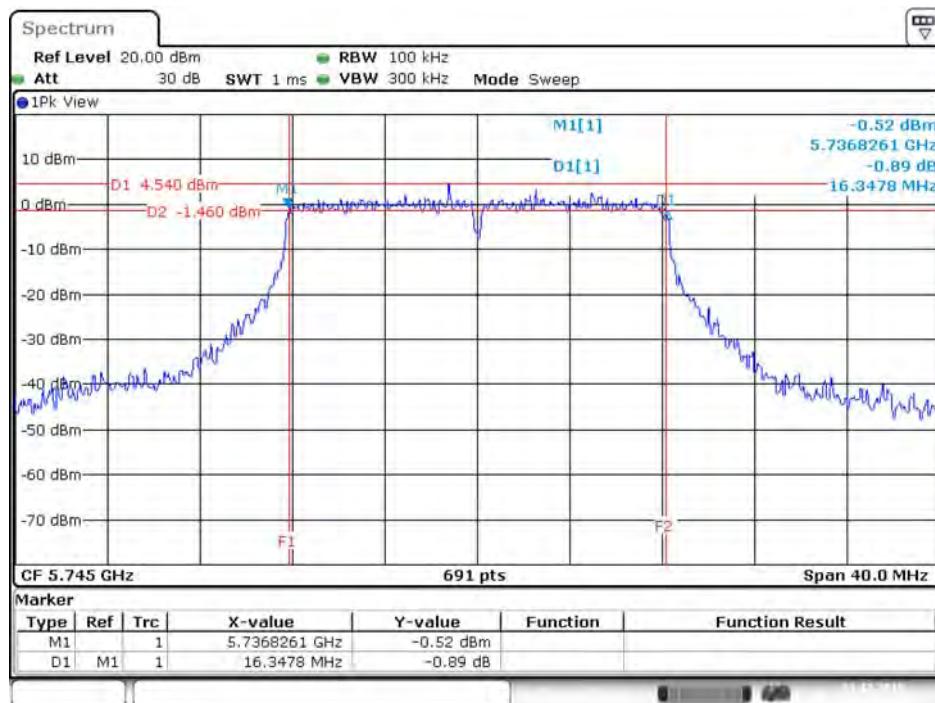
Mode	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11a	5745 MHz	16.00	500	Complies
	5785 MHz	16.35	500	Complies
	5825 MHz	15.88	500	Complies
802.11ac MCS0/Nss1 VHT20	5745 MHz	16.46	500	Complies
	5785 MHz	17.62	500	Complies
	5825 MHz	17.51	500	Complies
802.11ac MCS0/Nss1 VHT40	5755 MHz	35.71	500	Complies
	5795 MHz	35.36	500	Complies
802.11ac MCS0/Nss1 VHT80	5775 MHz	75.94	500	Complies

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

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

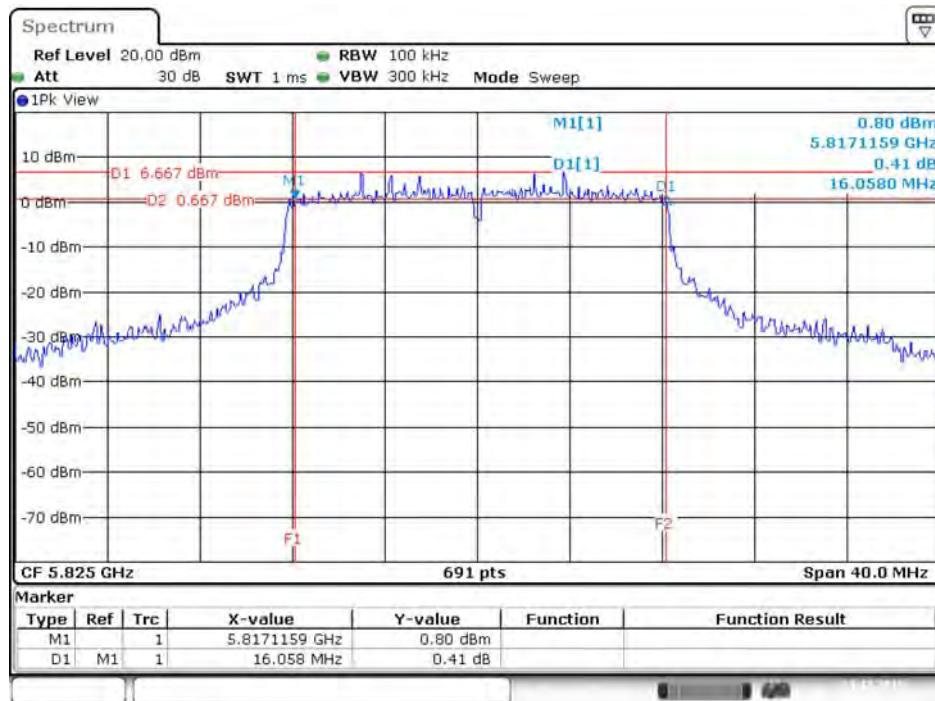
<For Radio 2 Non-beamforming Mode>
6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 5 / 5745 MHz


Date: 21.DEC.2015 18:21:12

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 6 / 5745 MHz


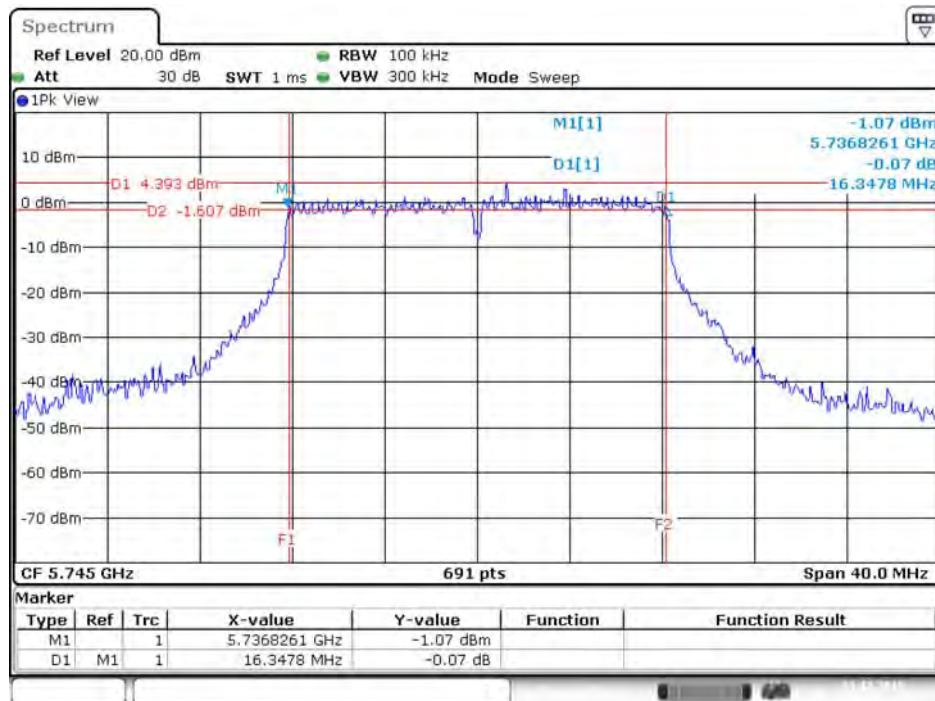
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 7 / 5825 MHz



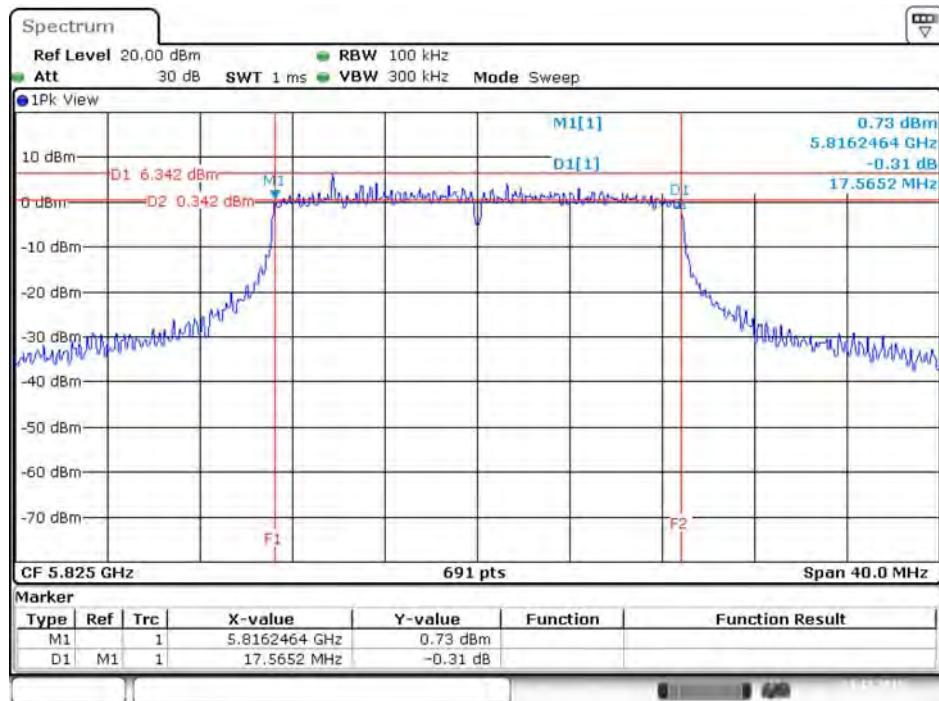
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 8 / 5745 MHz



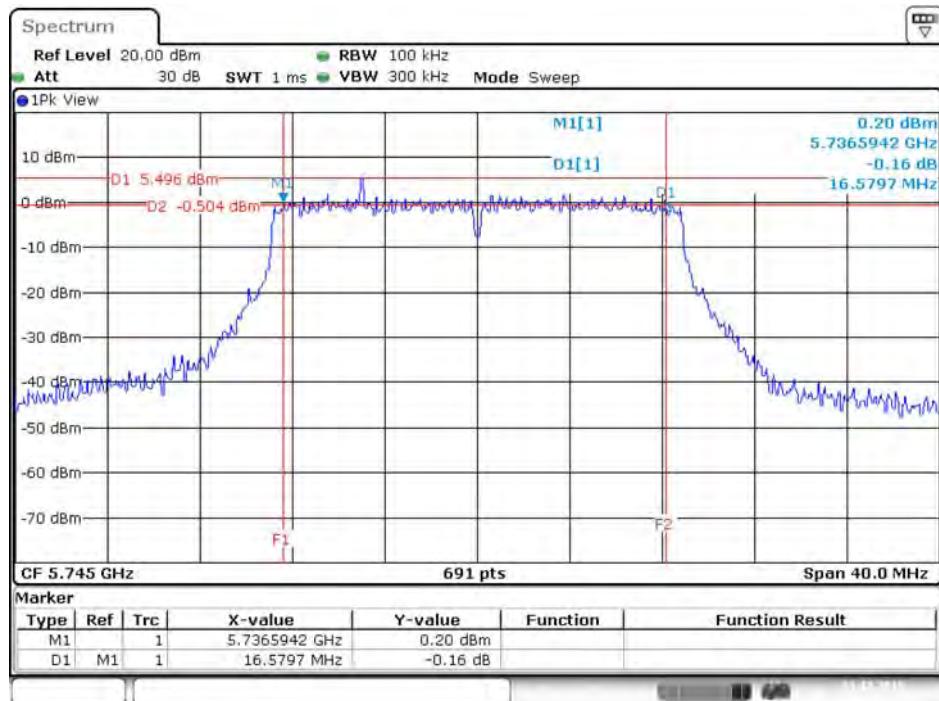
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 / 5825 MHz

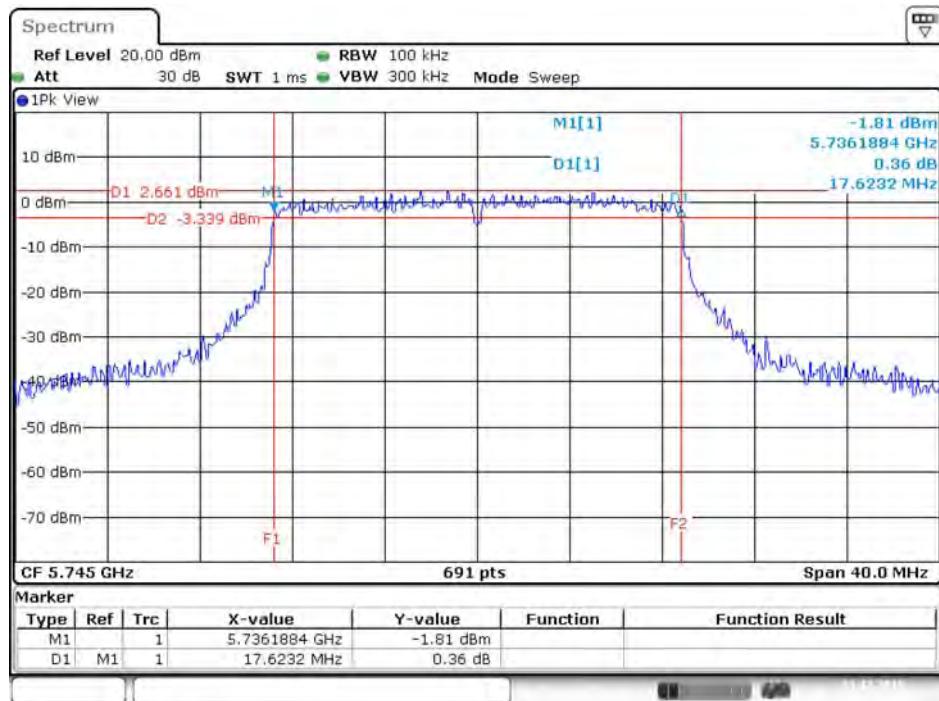


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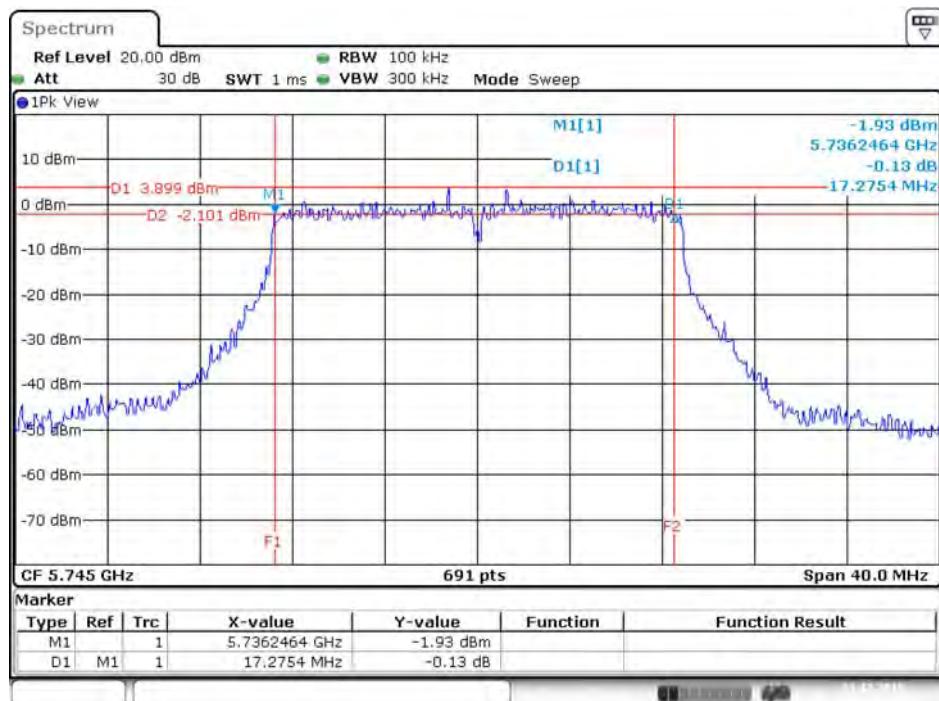
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 6 / 5745 MHz



Date: 21.DEC.2015 17:41:00

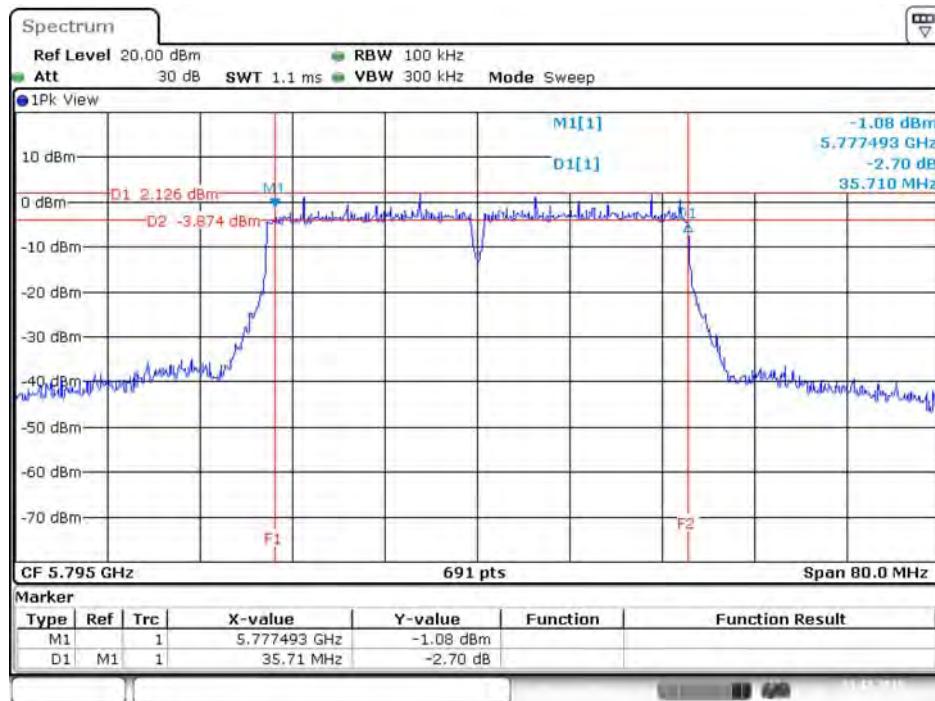
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 7 / 5745 MHz


Date: 21.DEC.2015 17:41:28

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 8 / 5745 MHz


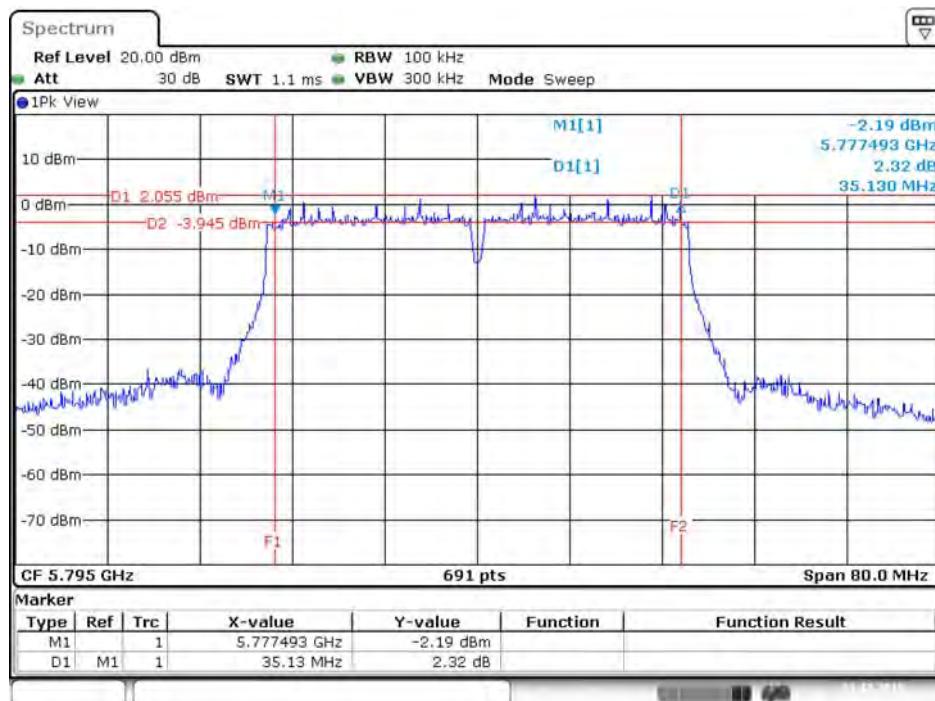
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 / 5795MHz



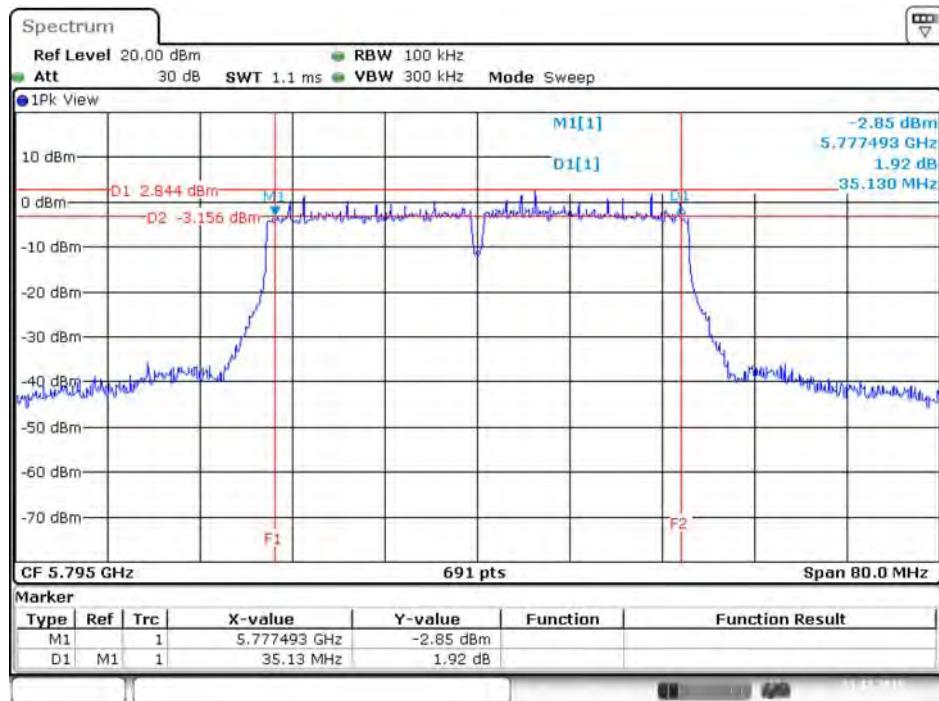
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 6 / 5795MHz



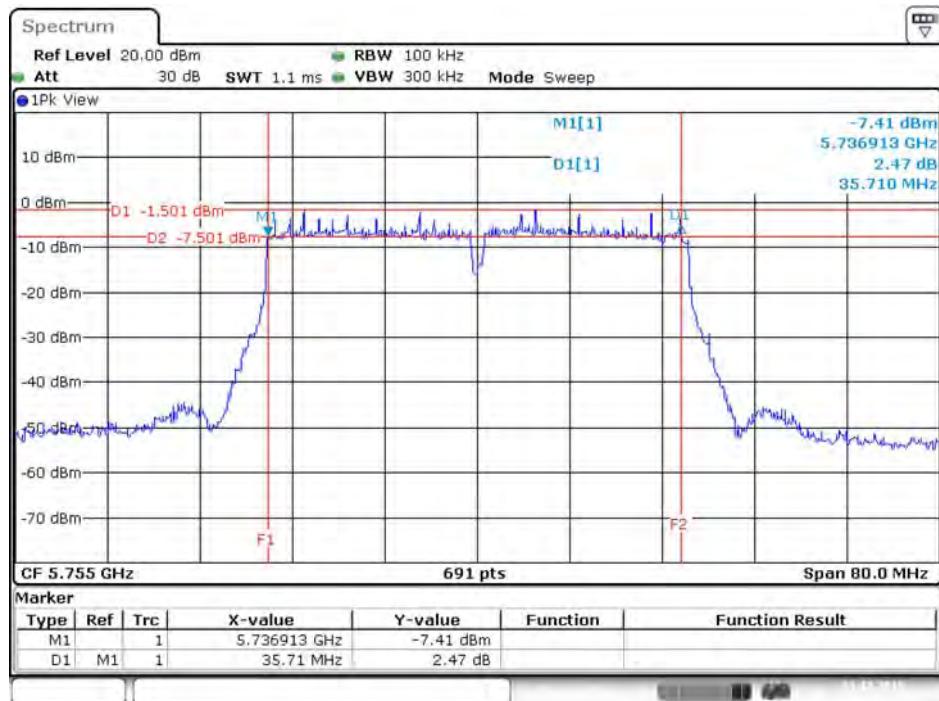
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 7 / 5795MHz



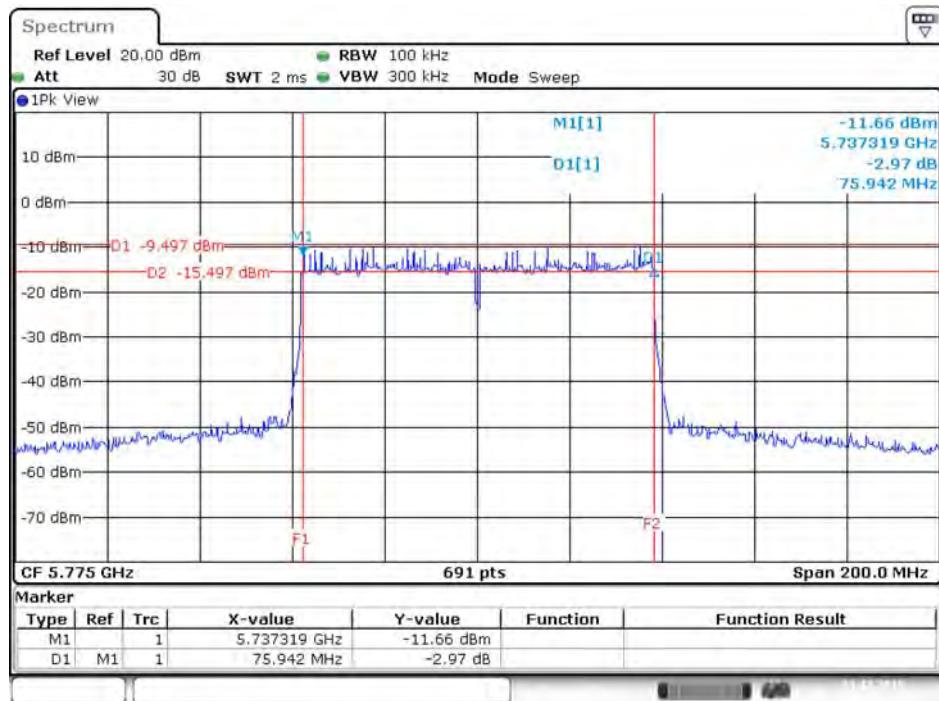
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 8 / 5755MHz



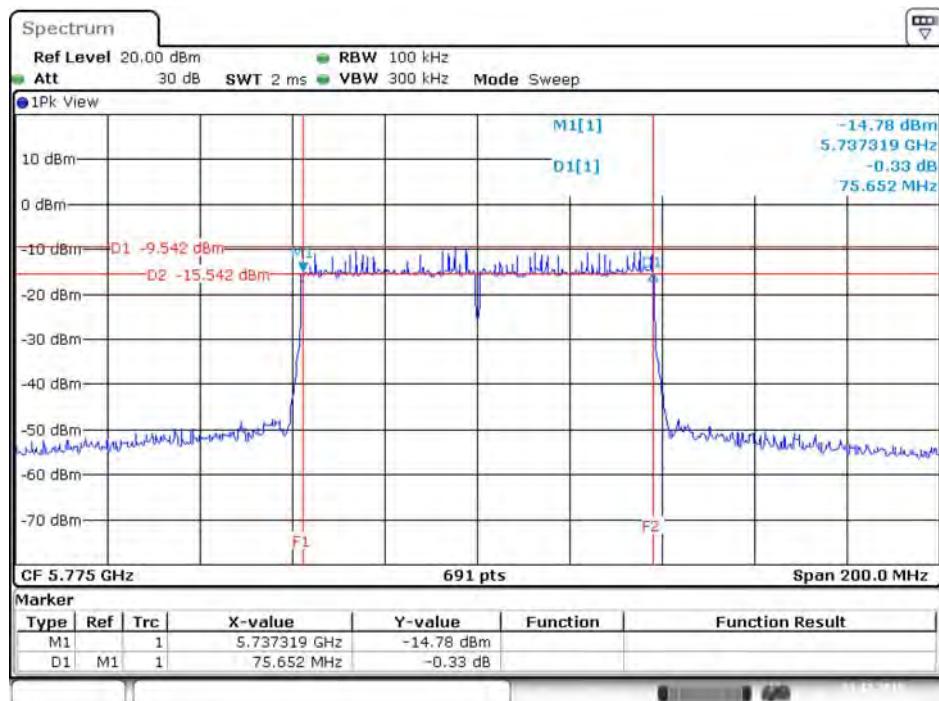
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 / 5775 MHz



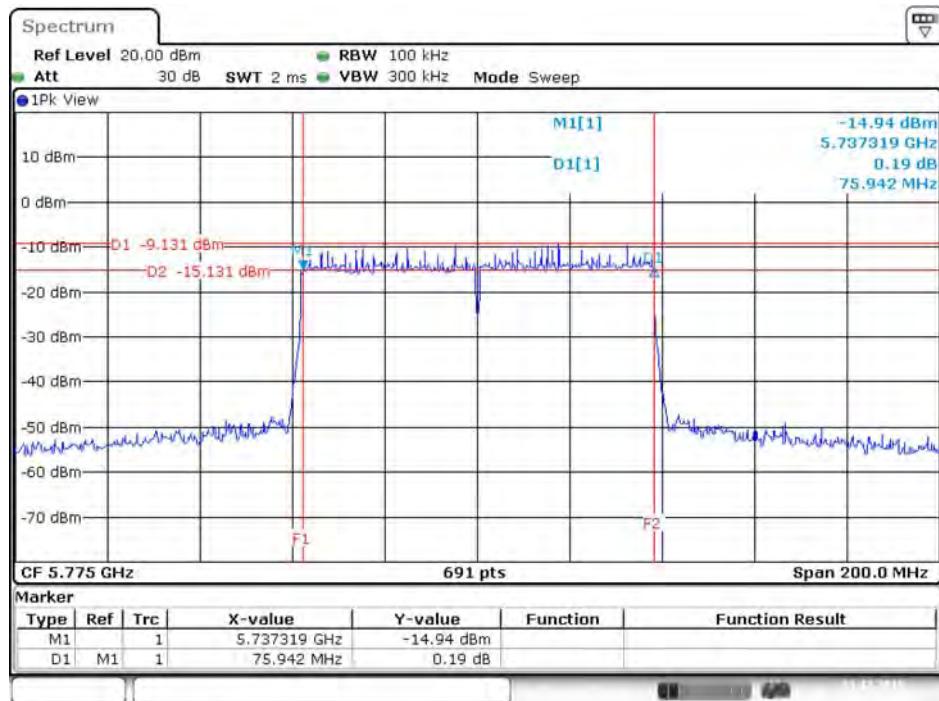
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 6 / 5775 MHz



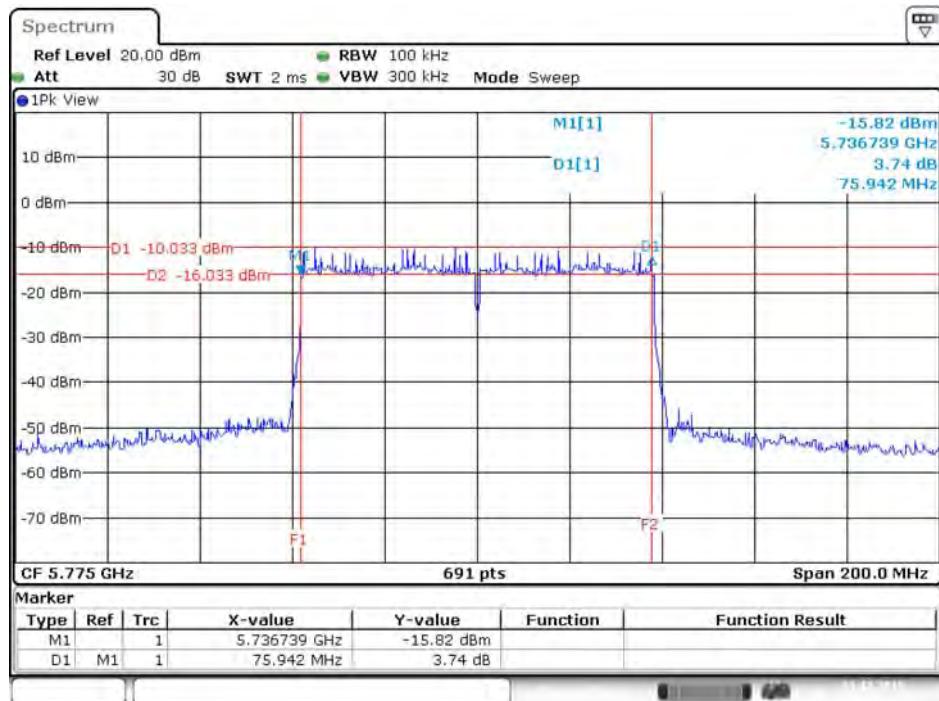
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 7 / 5775 MHz



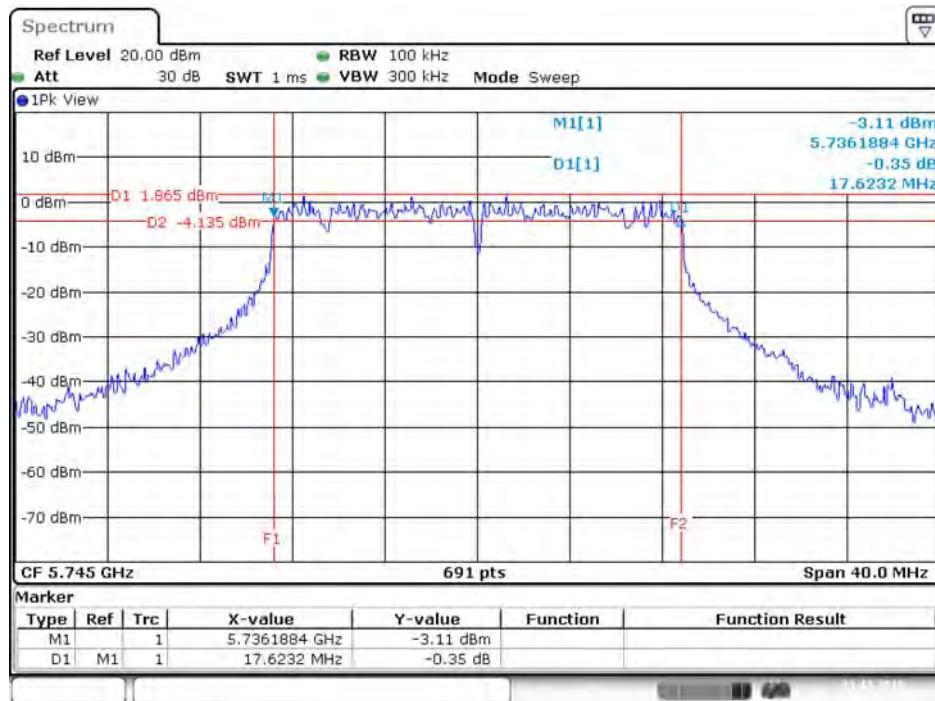
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 8 / 5775 MHz



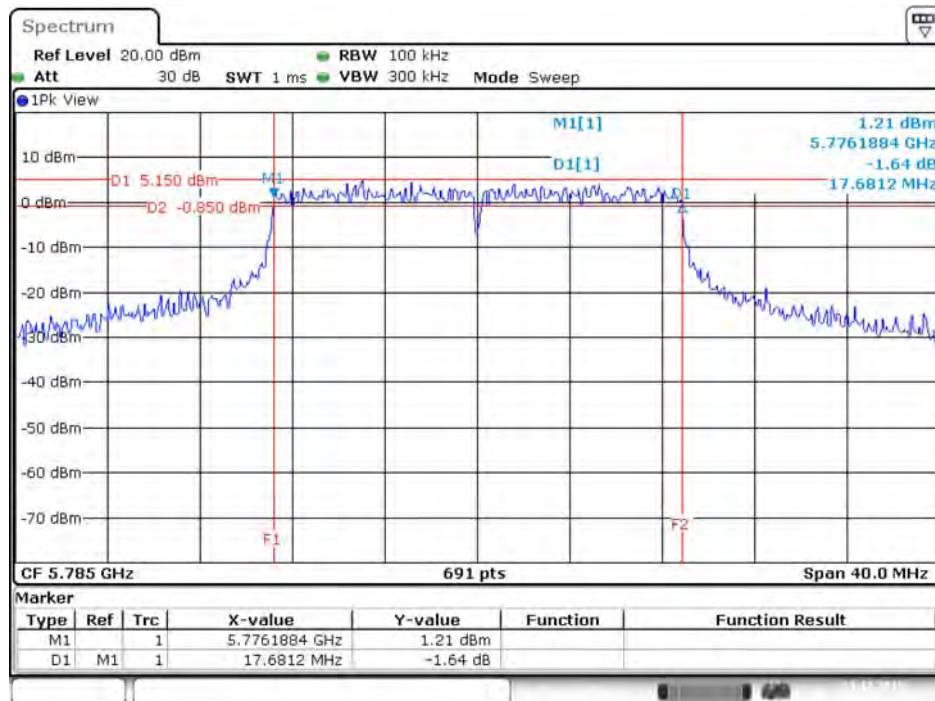
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 / 5745 MHz



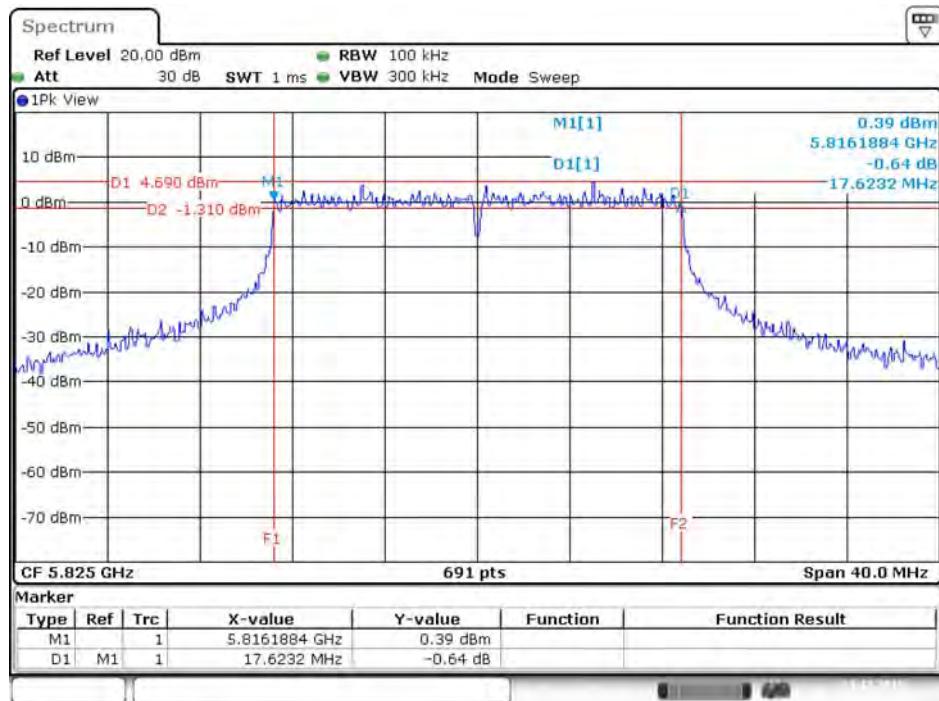
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 6 / 5785 MHz



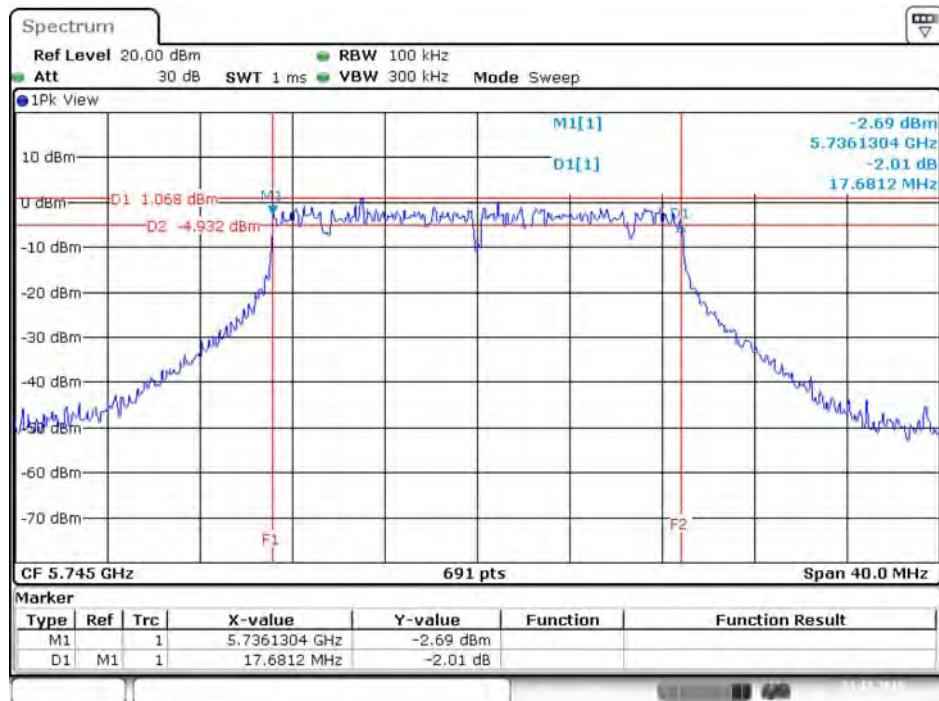
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 7 / 5825 MHz



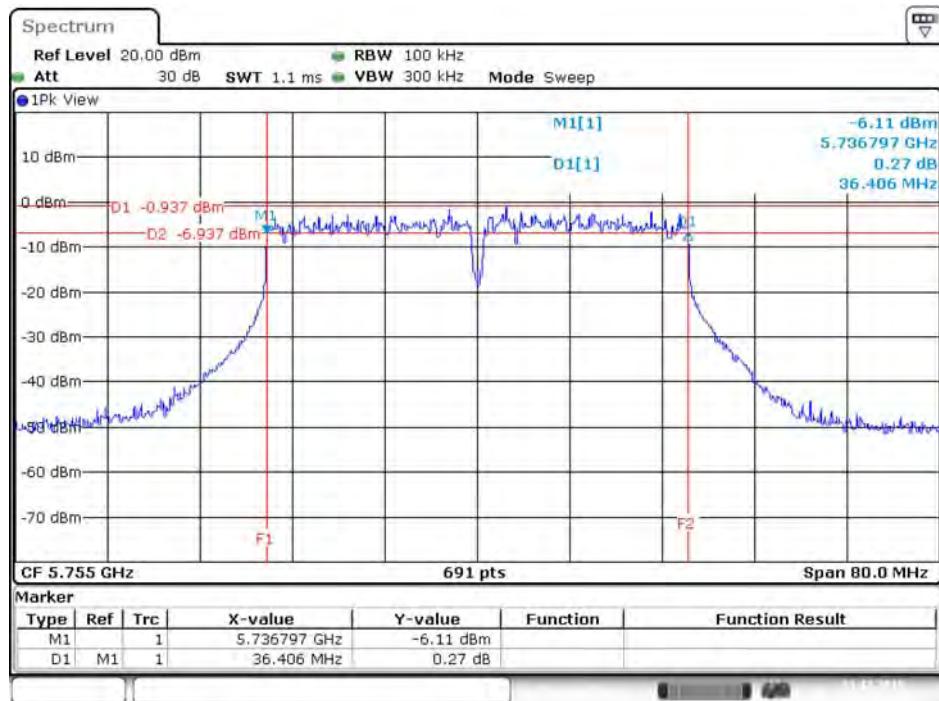
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 8 / 5745 MHz



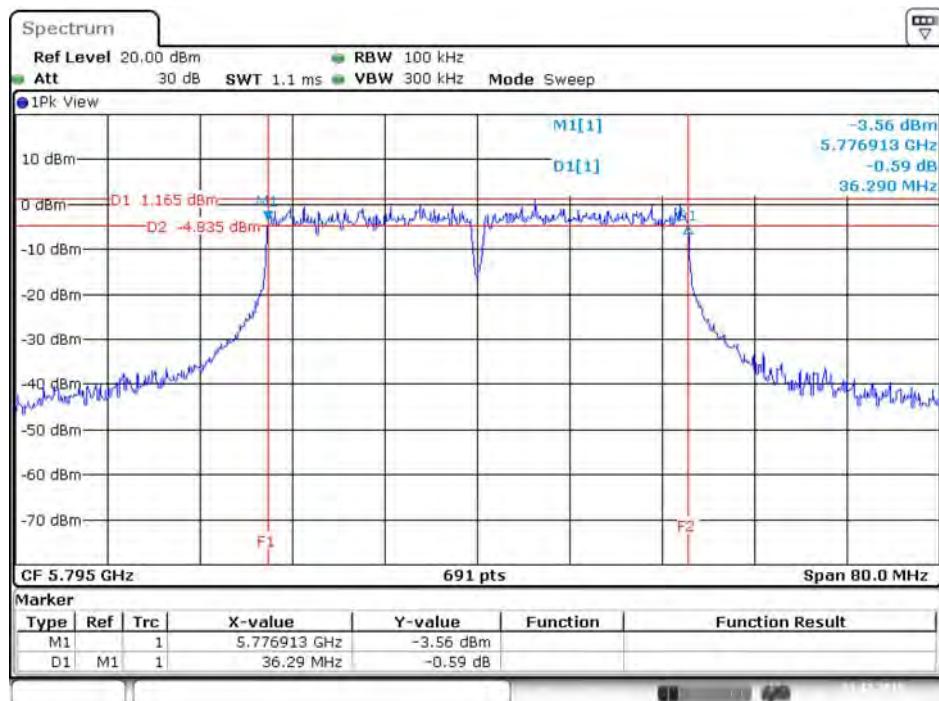
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 / 5755MHz



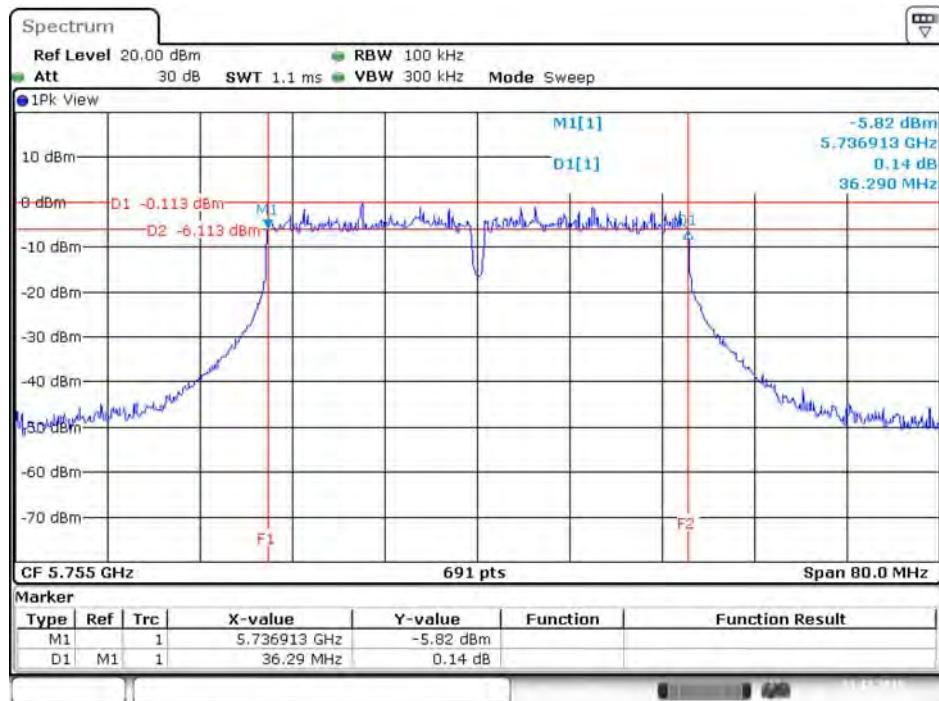
Date: 21.DEC.2015 17:12:08

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 6 / 5795MHz



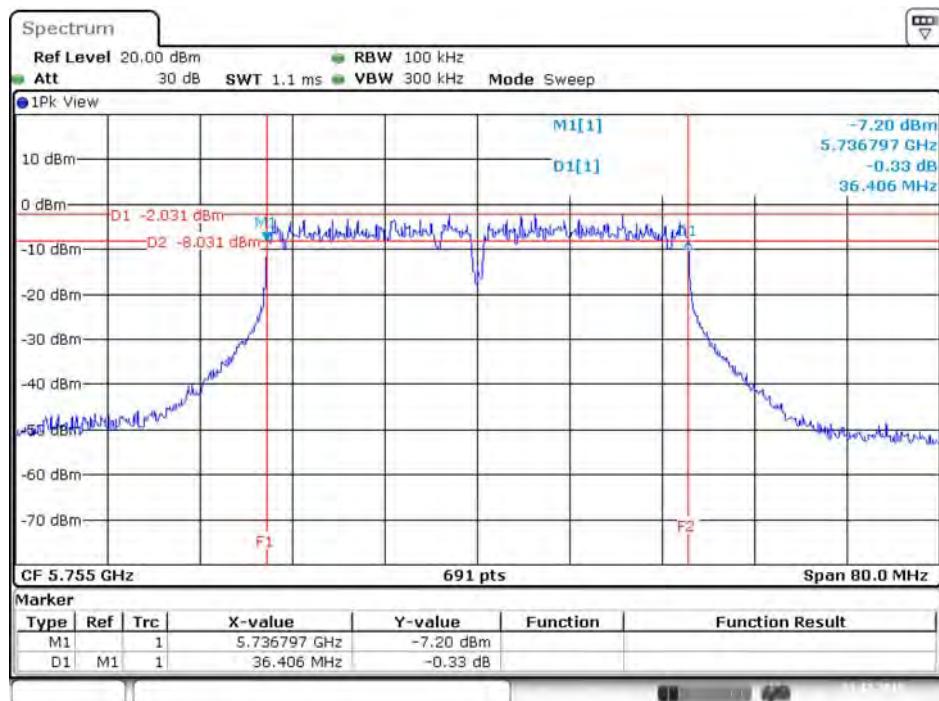
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 7 / 5755MHz



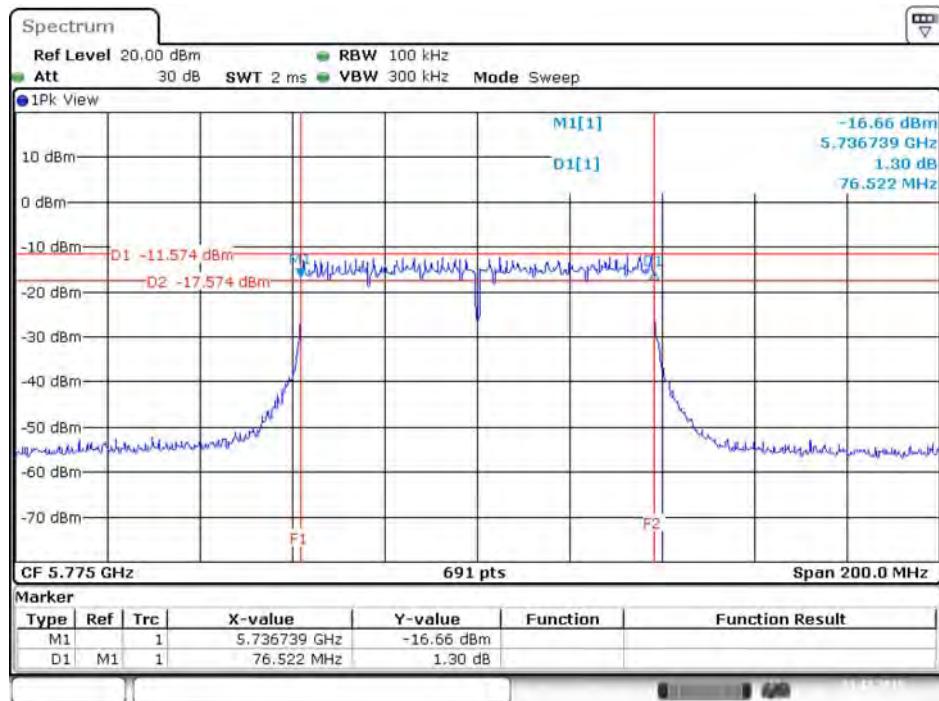
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 8 / 5755MHz



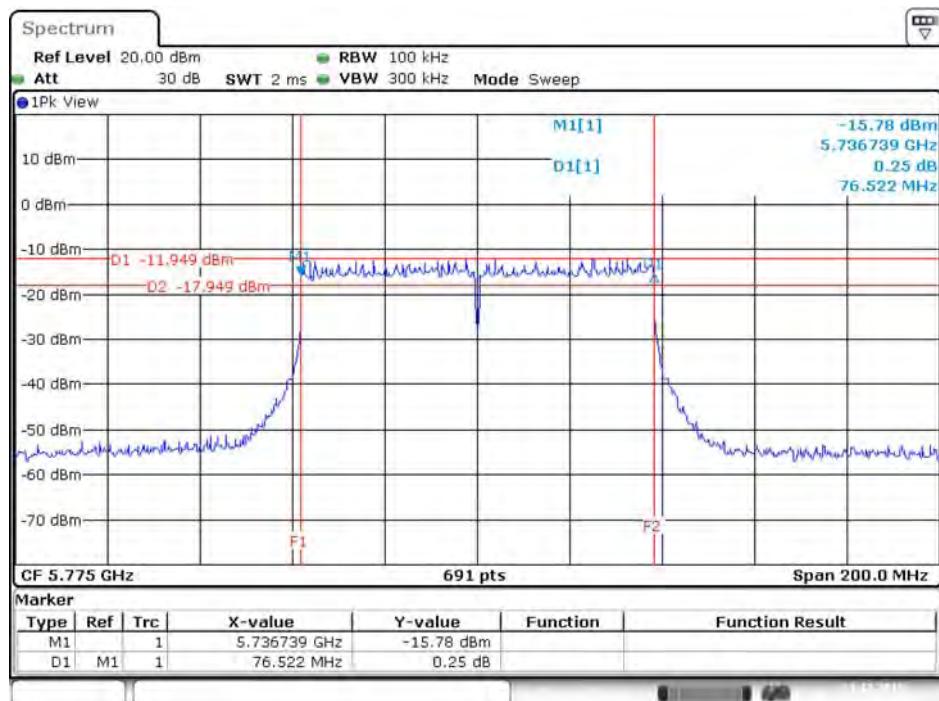
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 / 5775 MHz



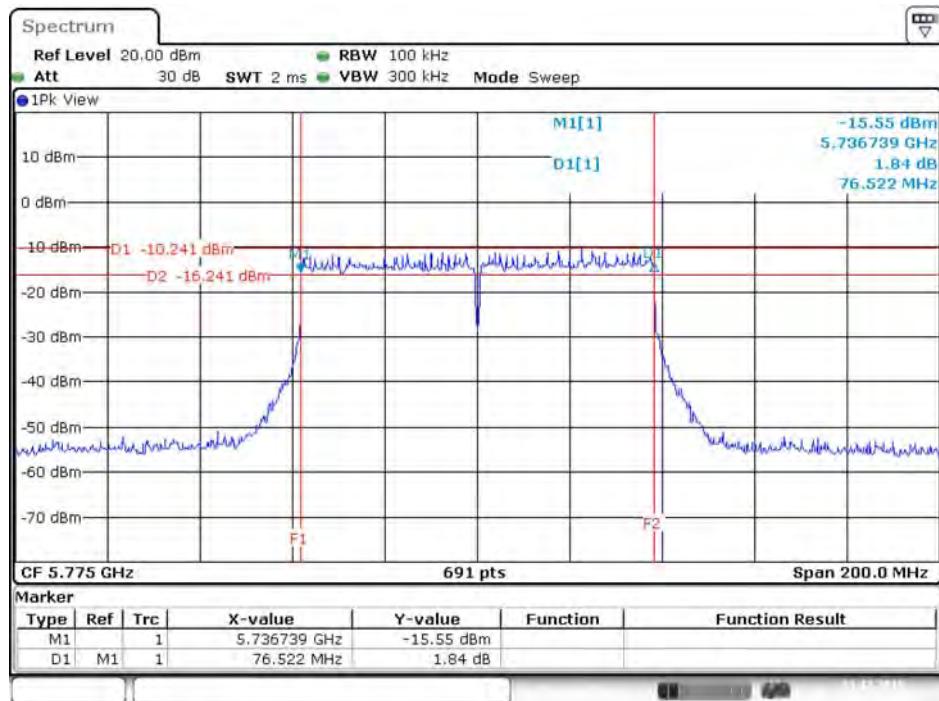
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 6 / 5775 MHz



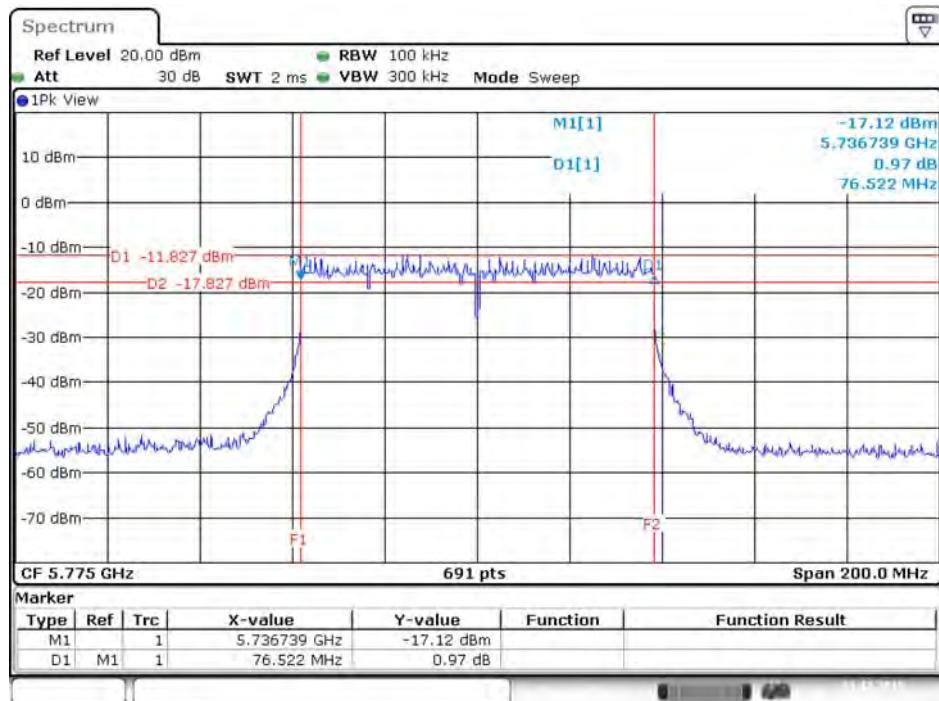
Date: 21.DEC.2015 17:09:51

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 17:09:08

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 8 / 5775 MHz

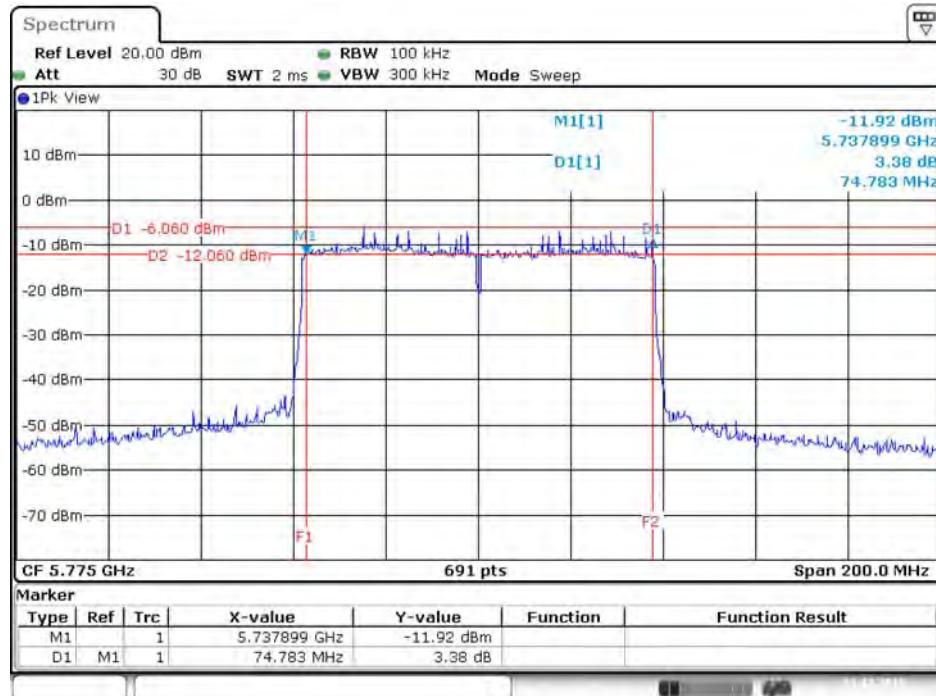


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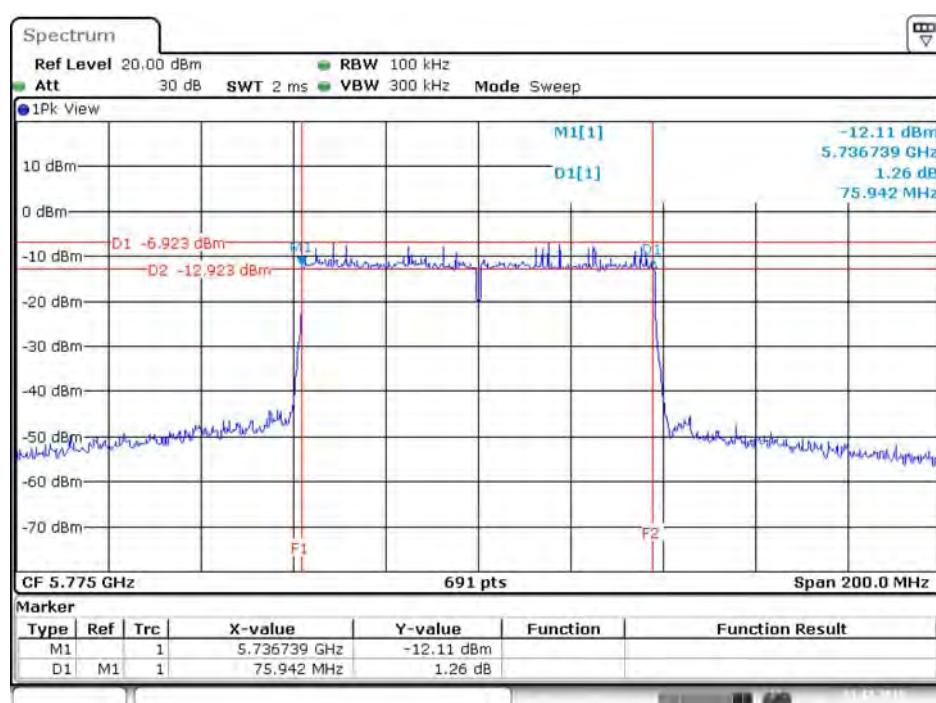
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

6 dB Bandwidth Plot on Chain 7 / 5775 MHz

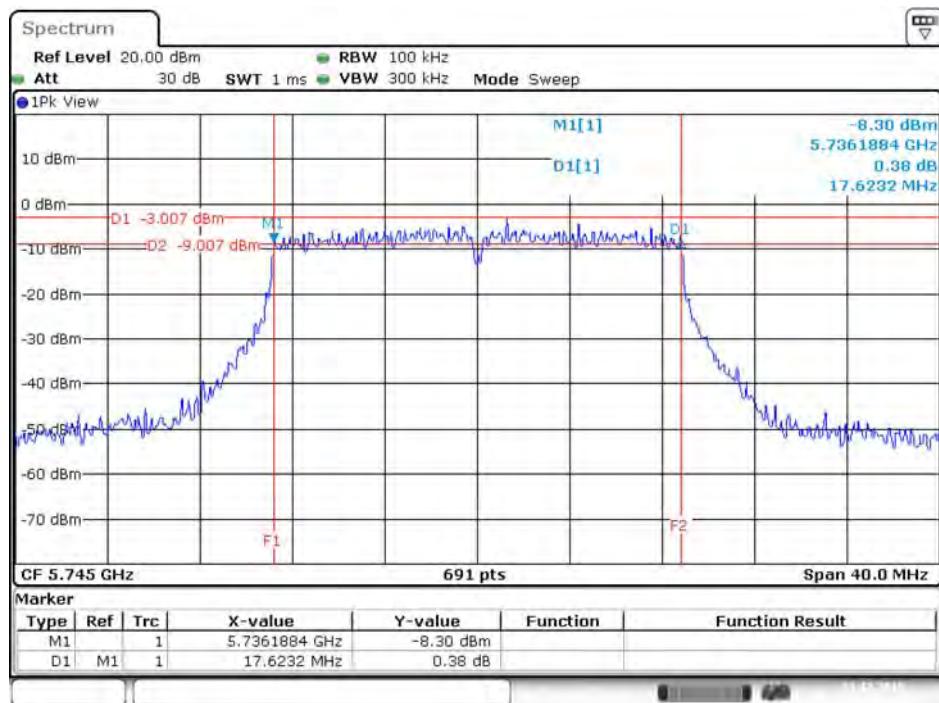


6 dB Bandwidth Plot on Chain 8 / 5775 MHz

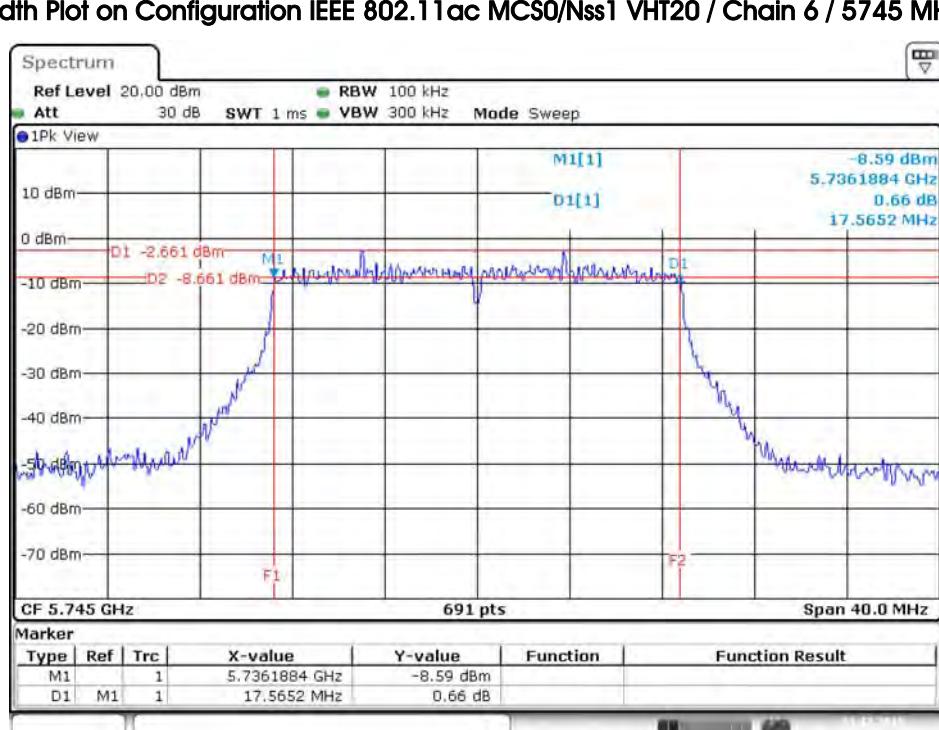


<For Radio 2 Beamforming Mode>

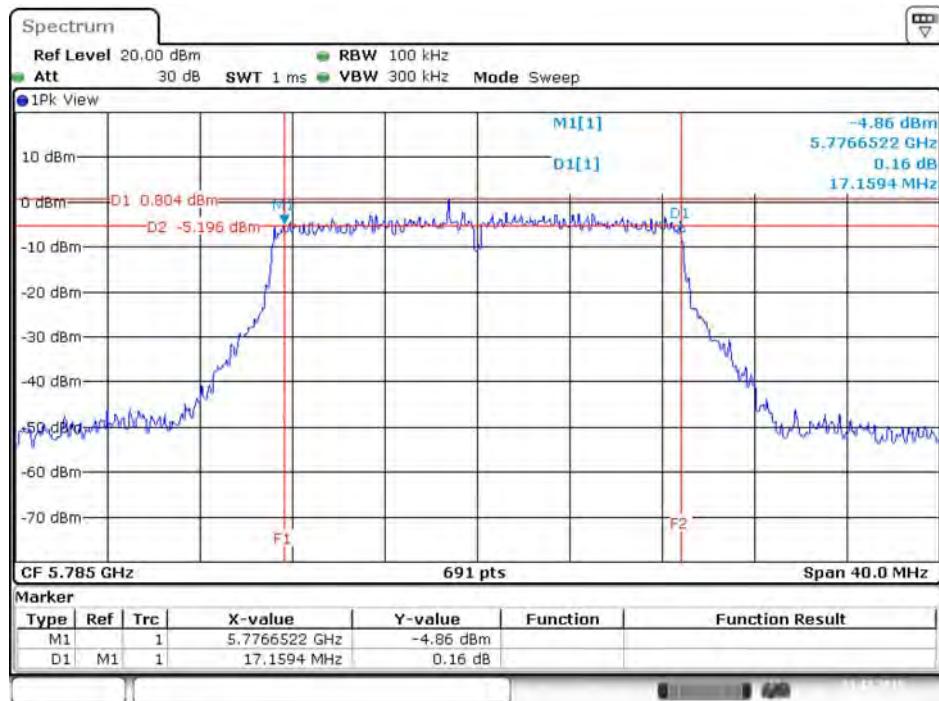
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 / 5745 MHz



6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 6 / 5745 MHz

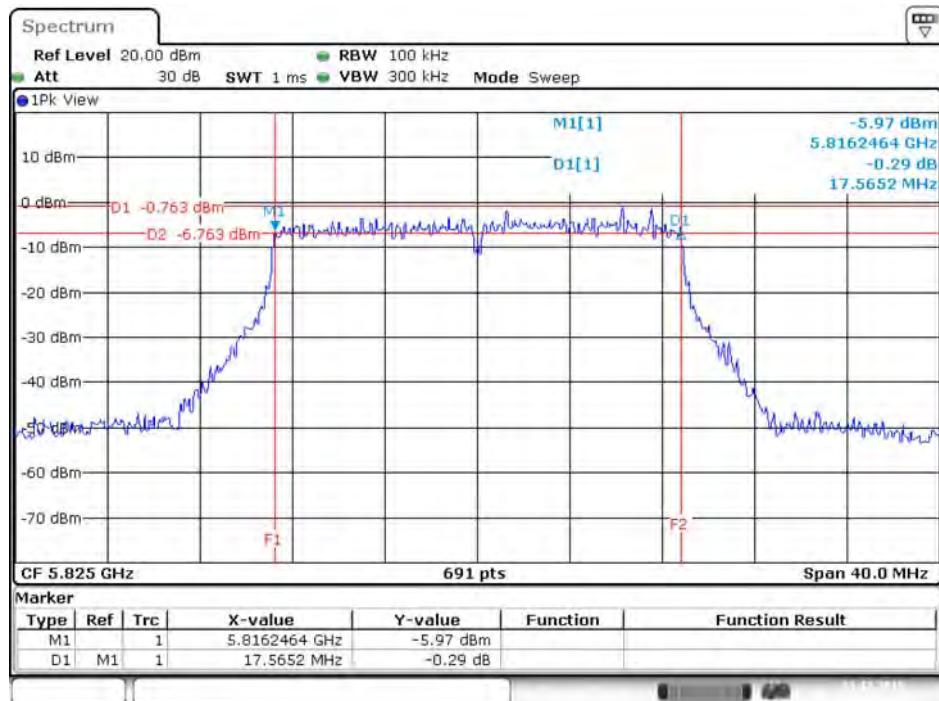


6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 7 / 5785 MHz



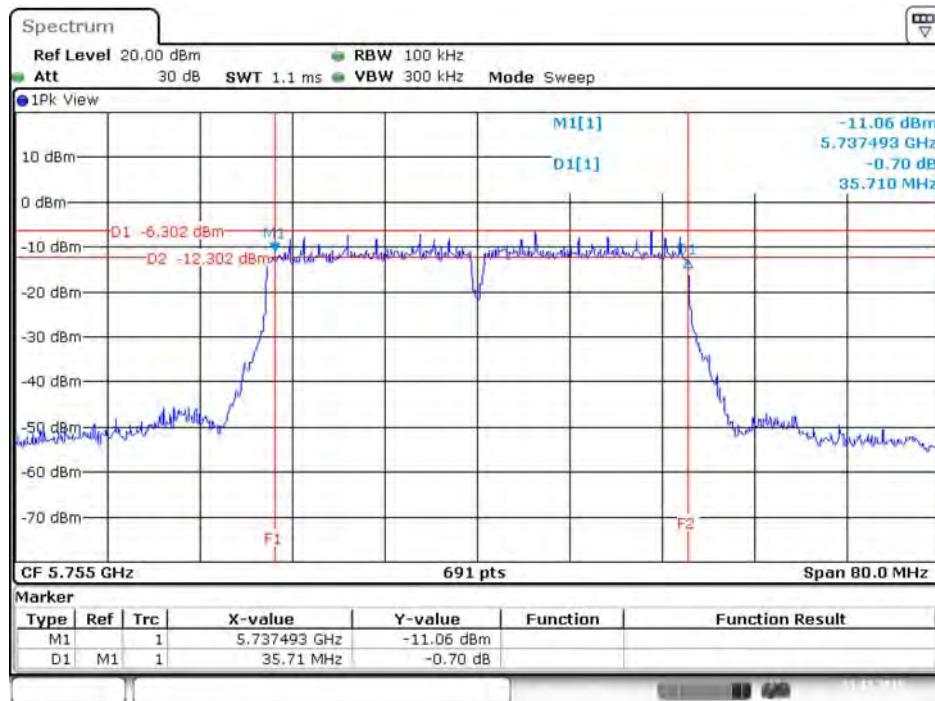
Date: 21.DEC.2015 16:49:13

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 8 / 5825 MHz



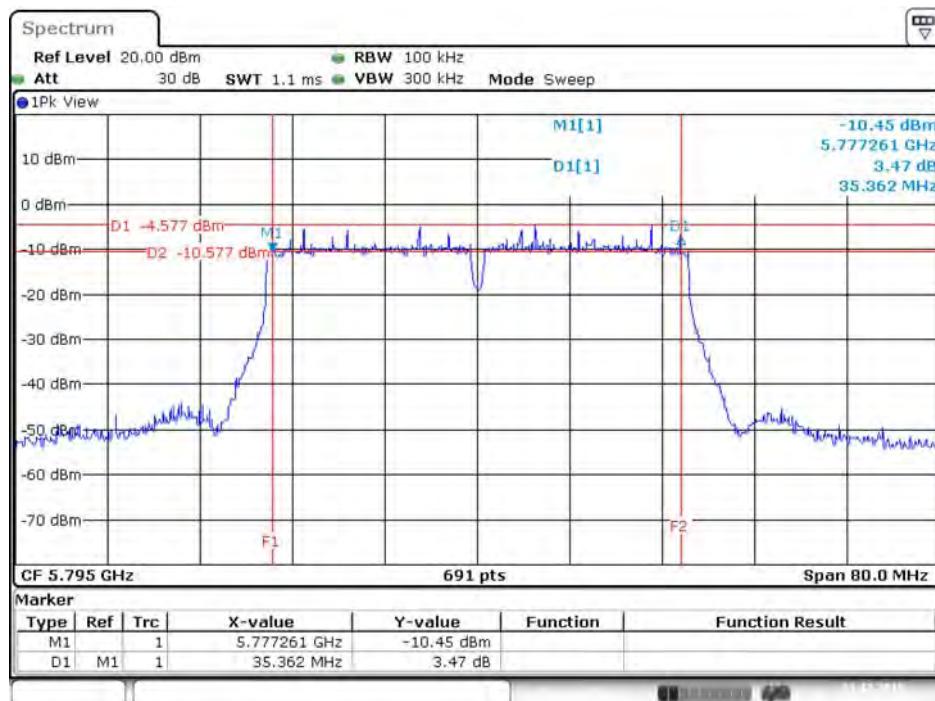
Date: 21.DEC.2015 16:43:32

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 / 5755MHz



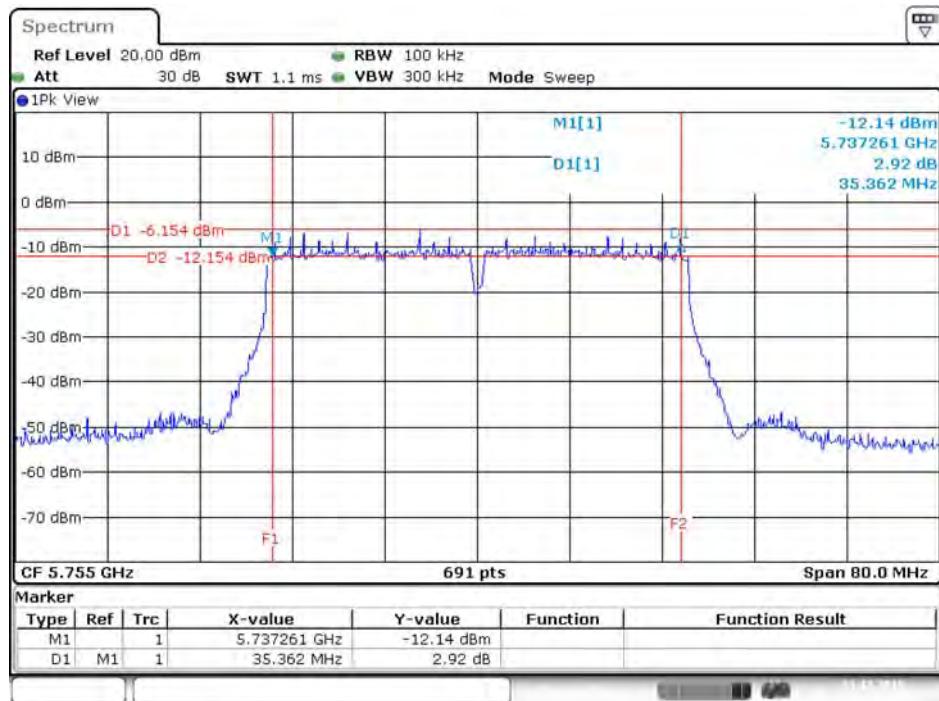
Date: 21.DEC.2015 16:53:31

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 6 / 5795MHz



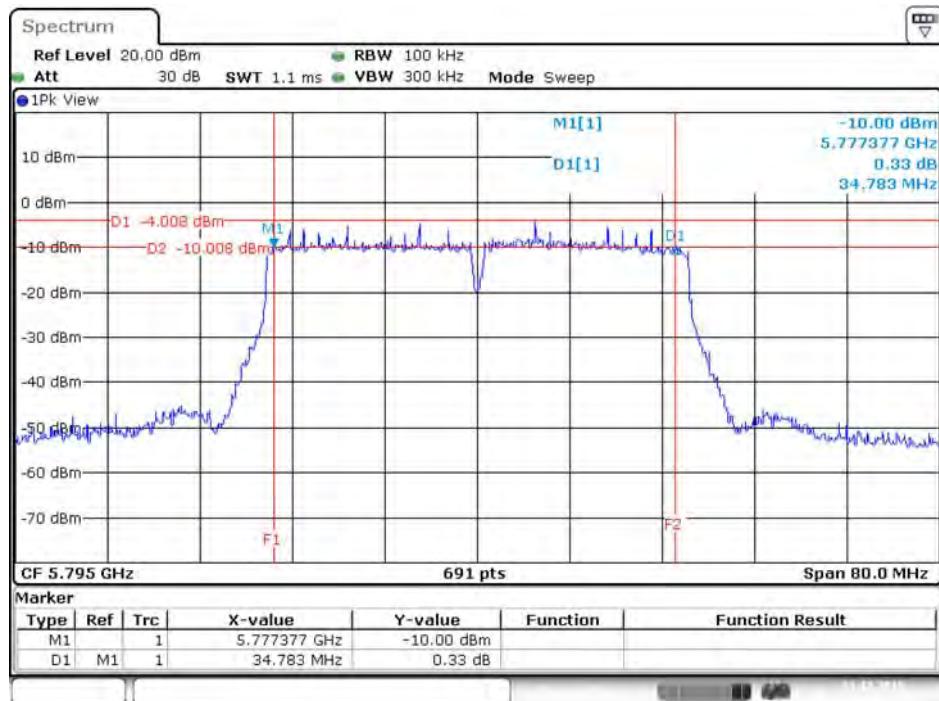
Date: 21.DEC.2015 17:01:37

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 7 / 5755MHz



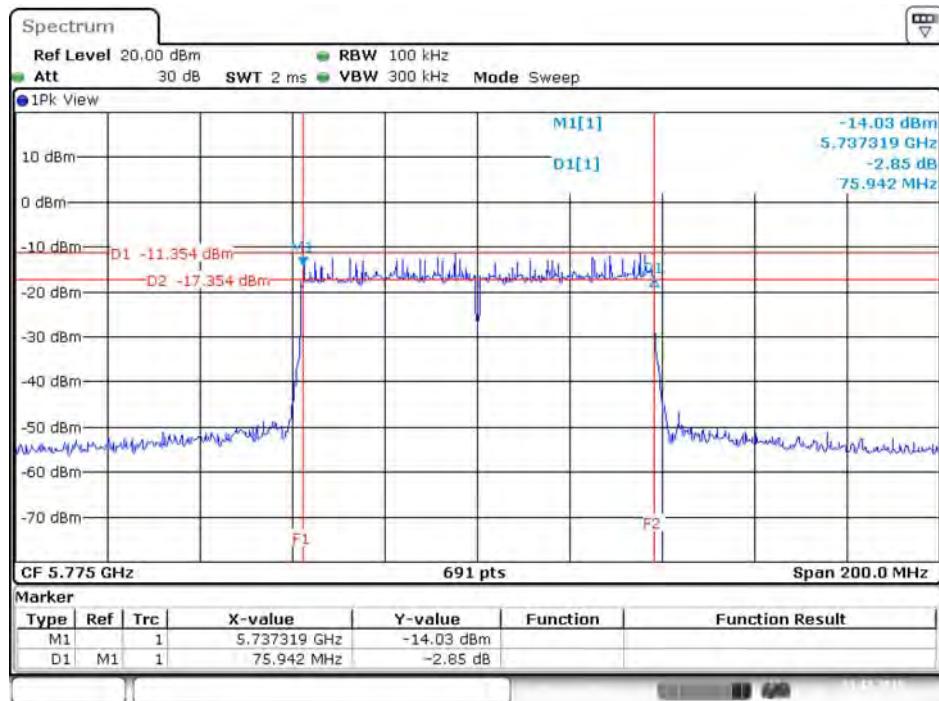
Date: 21.DEC.2015 16:58:38

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 8 / 5795MHz



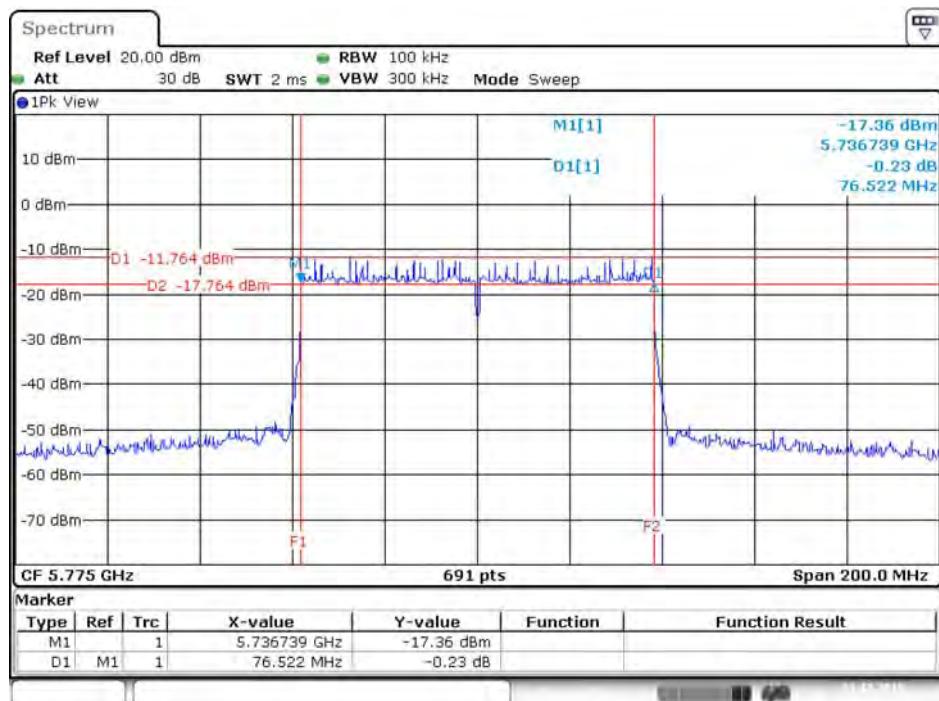
Date: 21.DEC.2015 17:00:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 / 5775 MHz



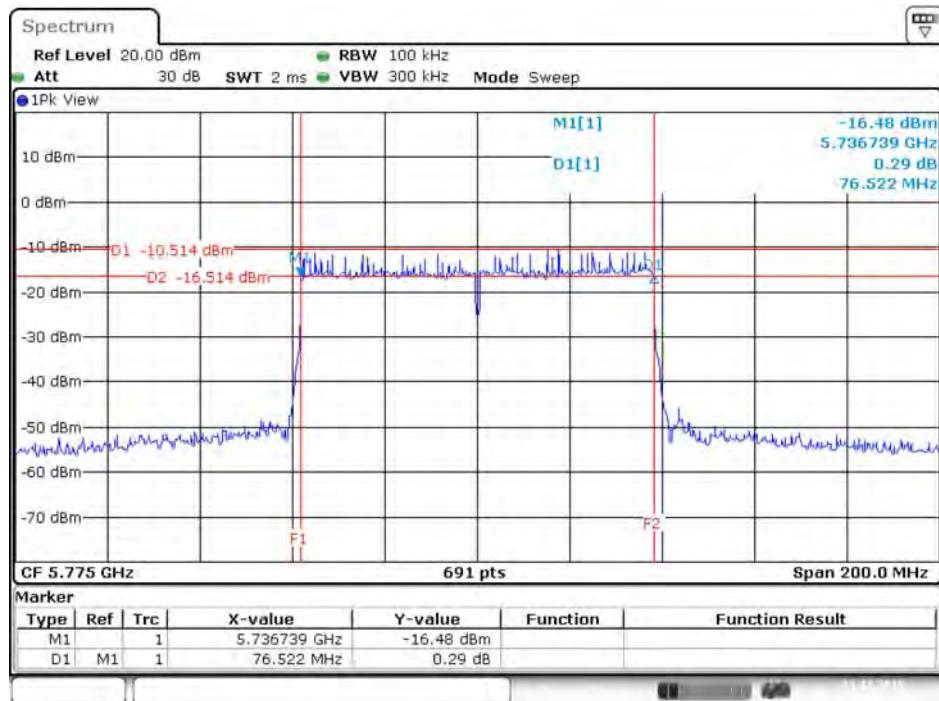
Date: 21.DEC.2015 17:04:48

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 6 / 5775 MHz



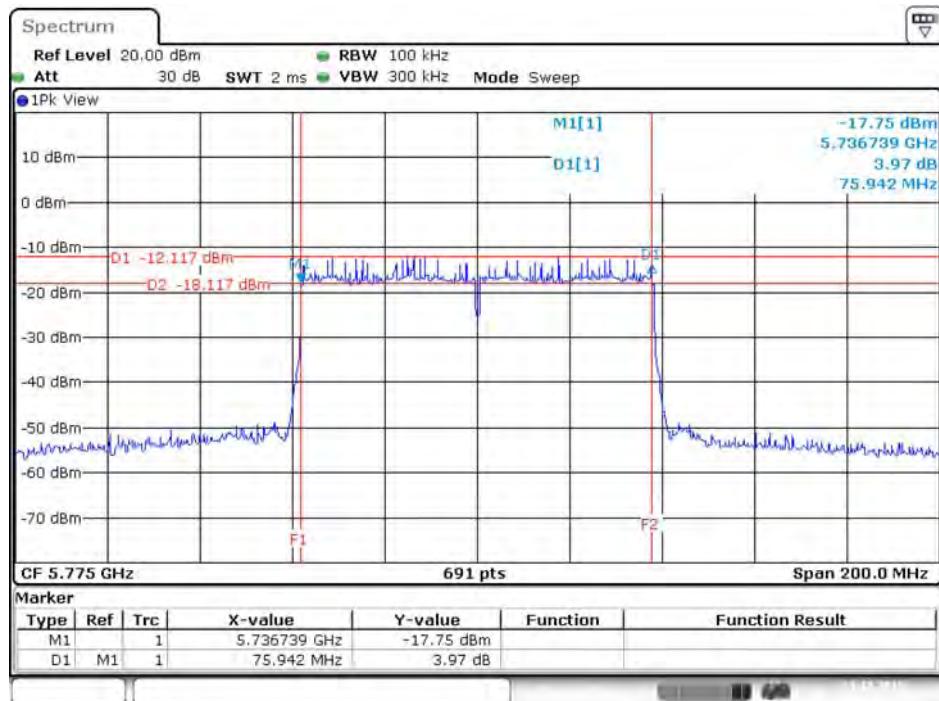
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 7 / 5775 MHz



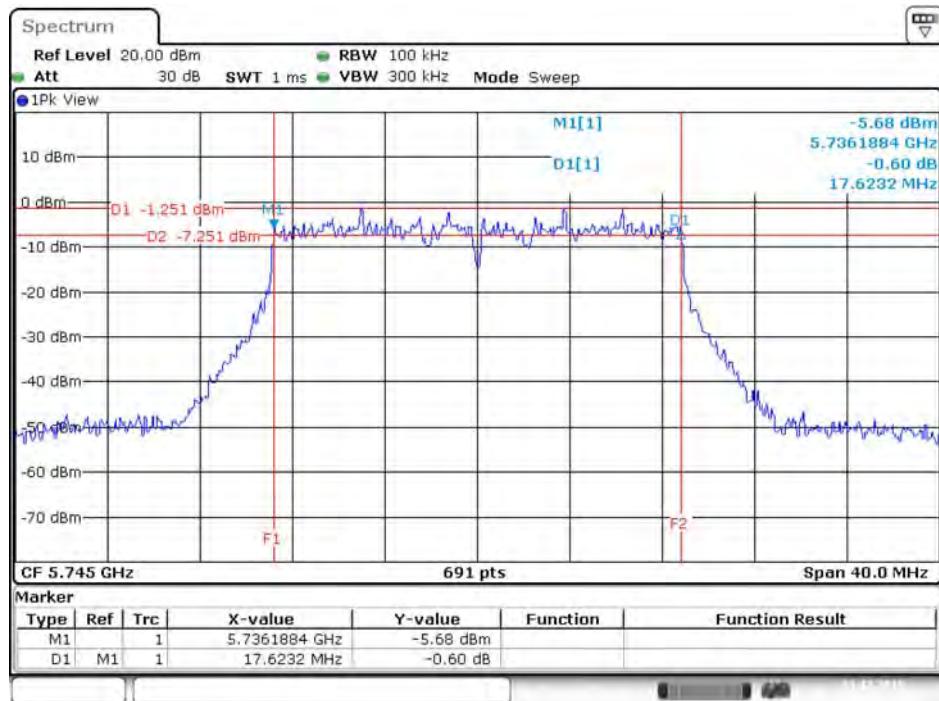
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 8 / 5775 MHz

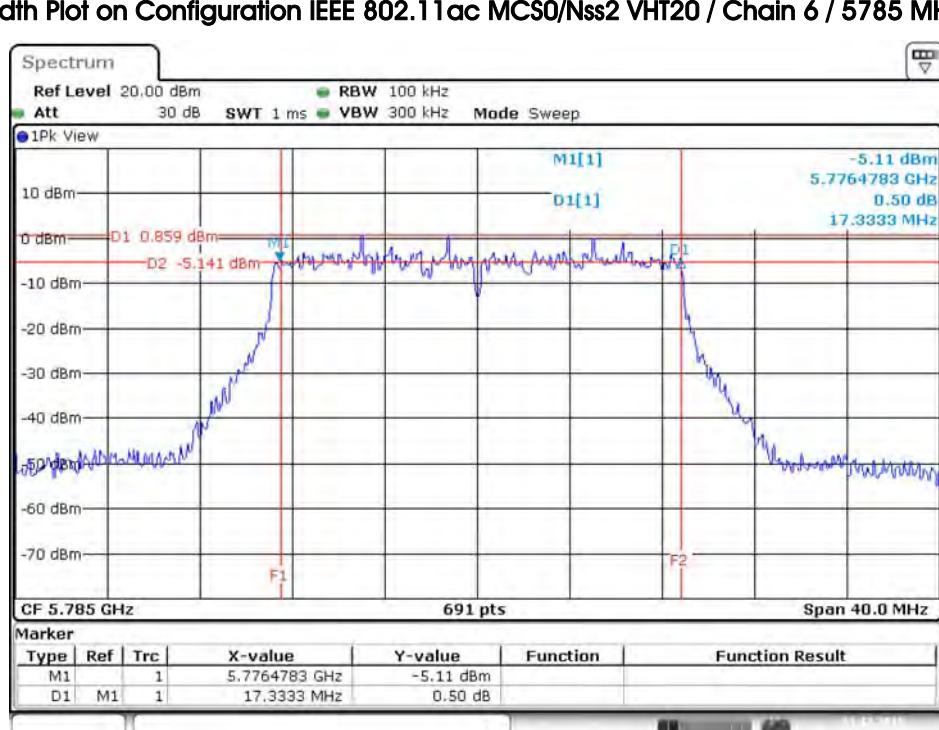


Date: 21.DEC.2015 17:05:56

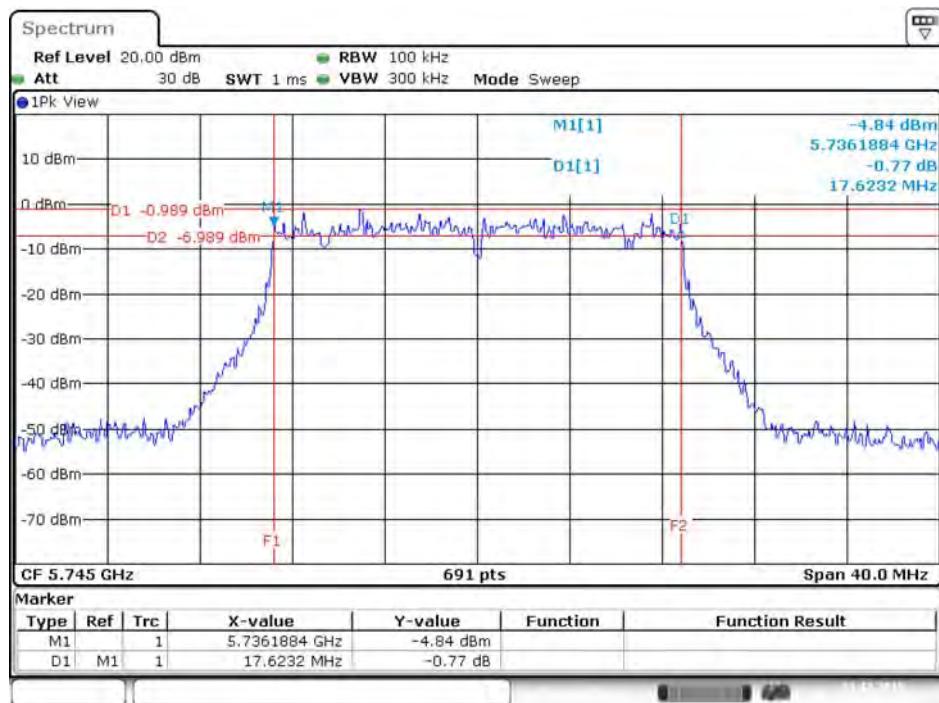
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 / 5745 MHz



6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 6 / 5785 MHz

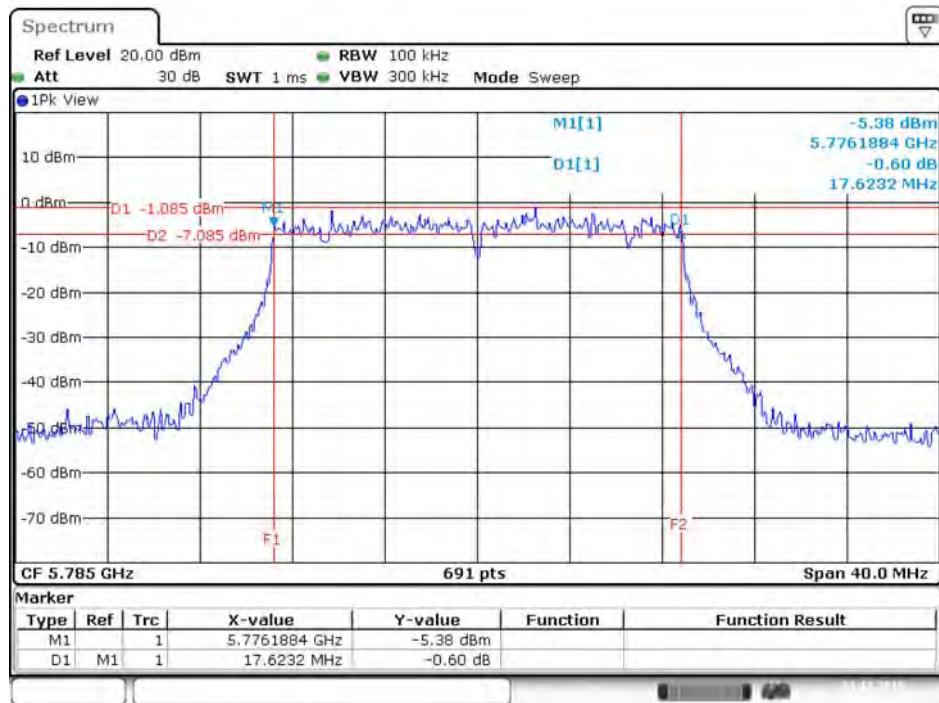


6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 7 / 5745 MHz



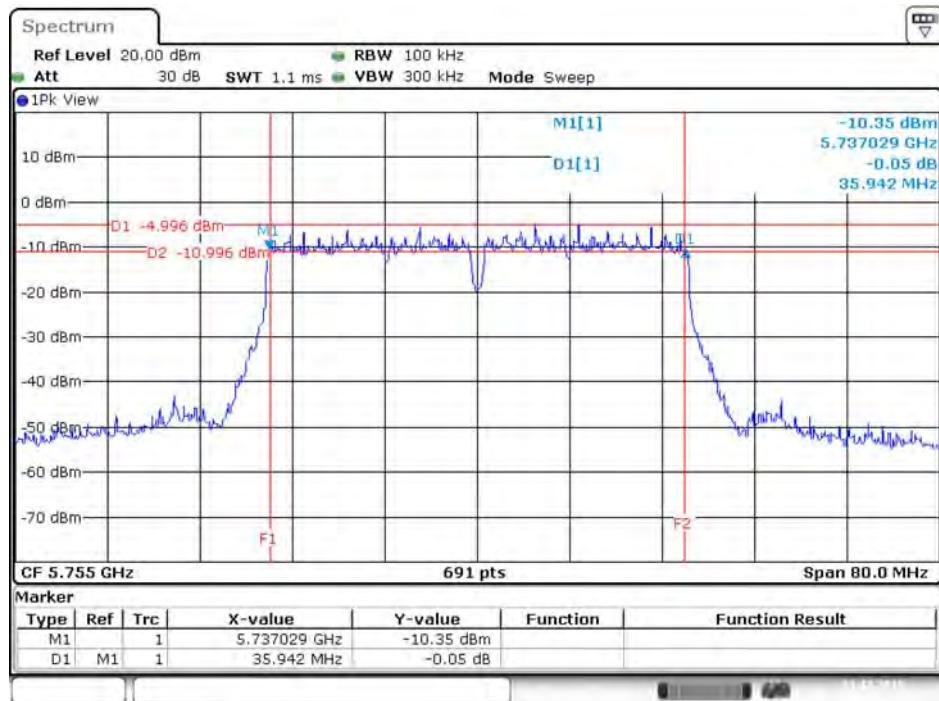
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 8 / 5785 MHz



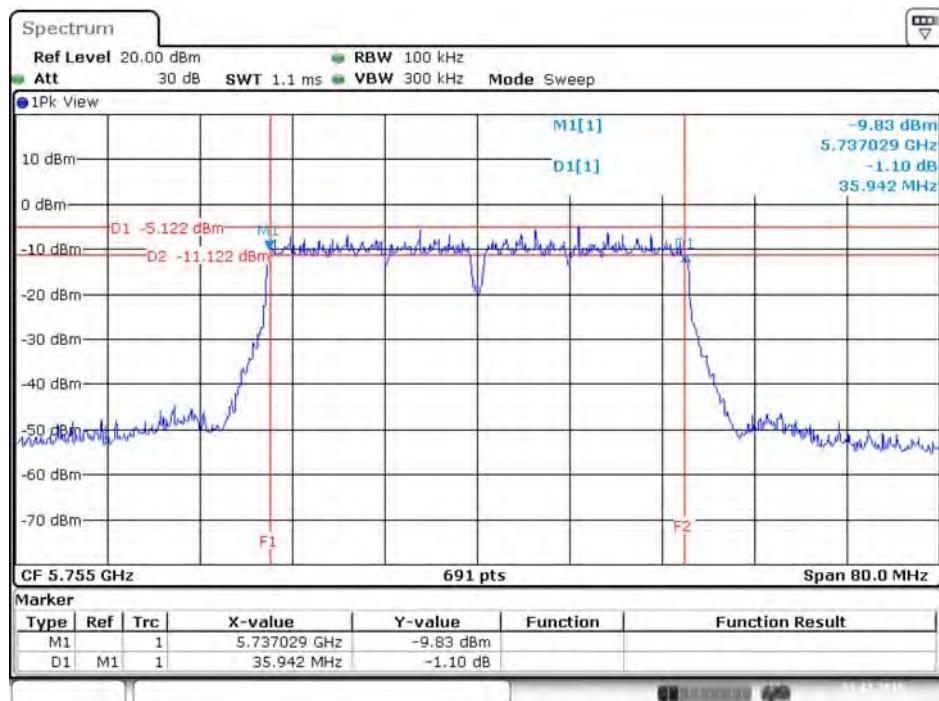
Date: 21.DEC.2015 16:35:05

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 / 5755MHz



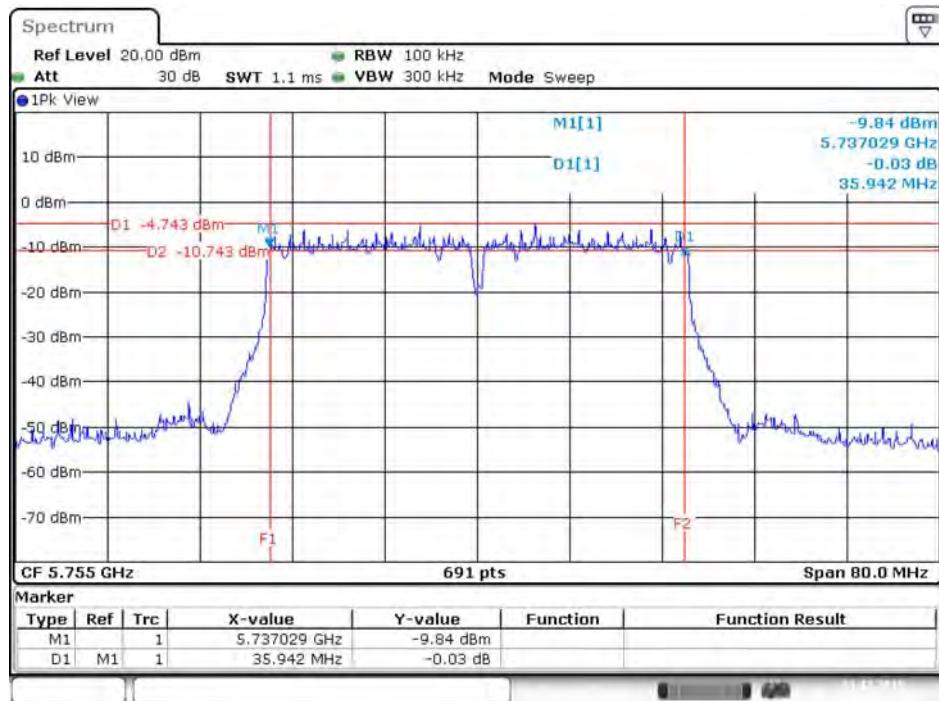
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 6 / 5755MHz



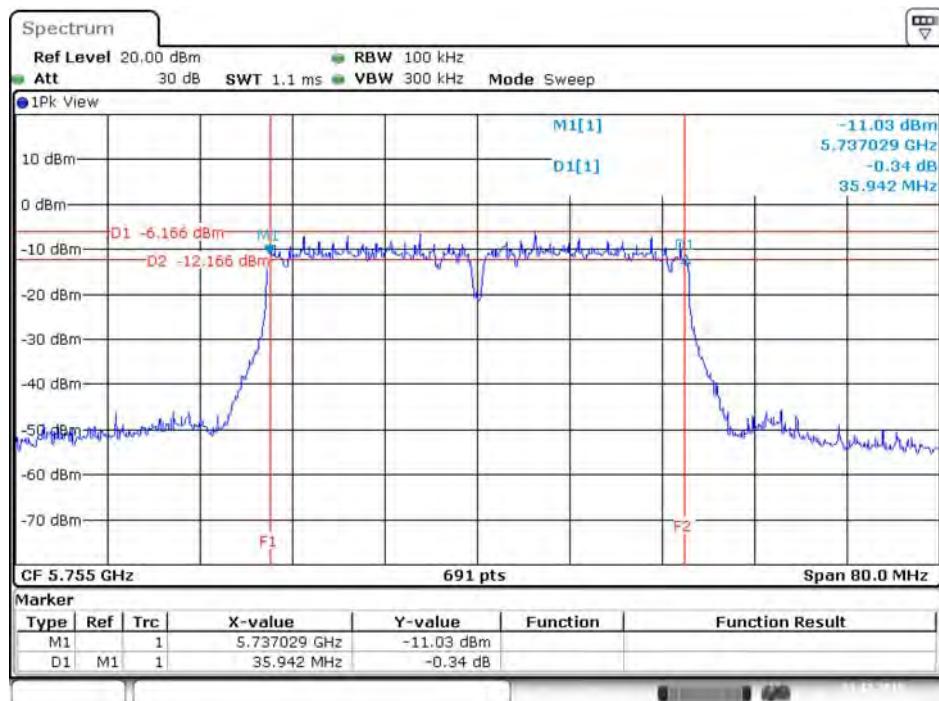
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 7 / 5755MHz



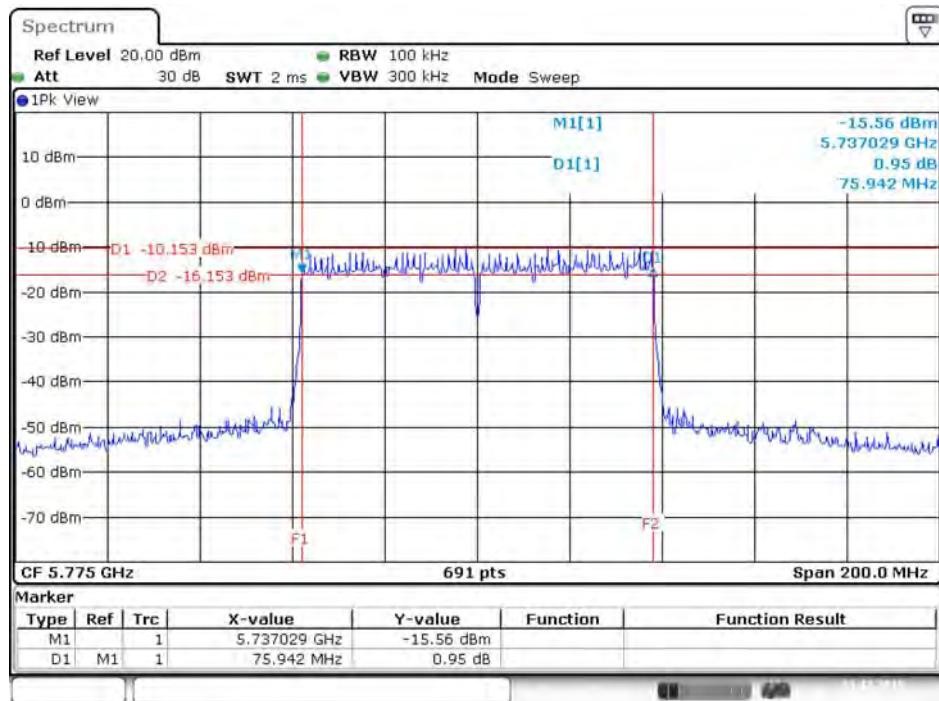
Date: 21.DEC.2015 16:27:20

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 8 / 5755MHz



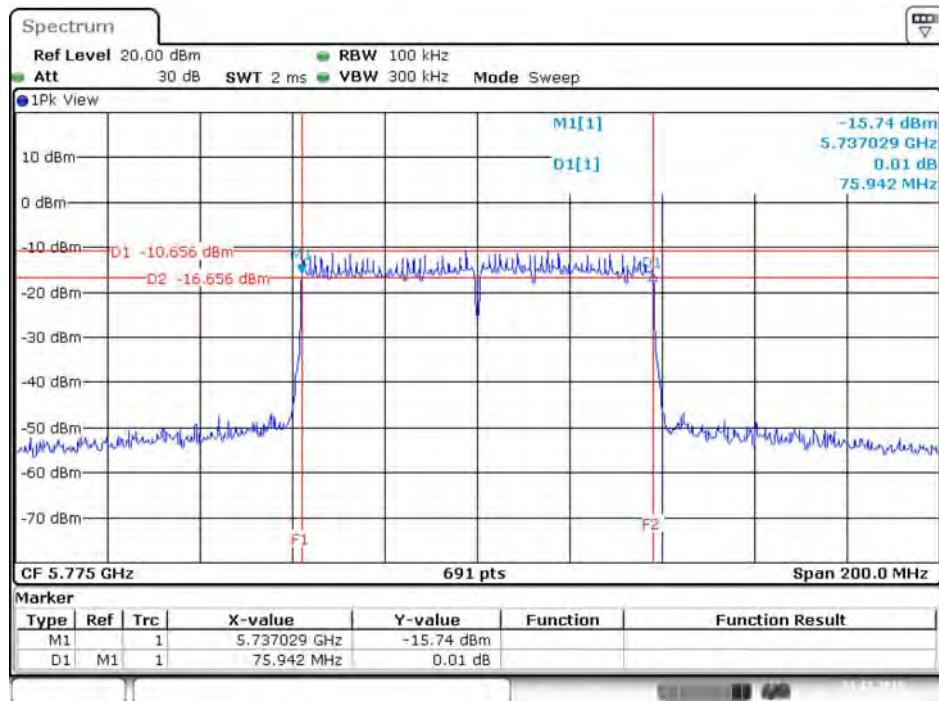
Date: 21.DEC.2015 16:27:39

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 / 5775 MHz



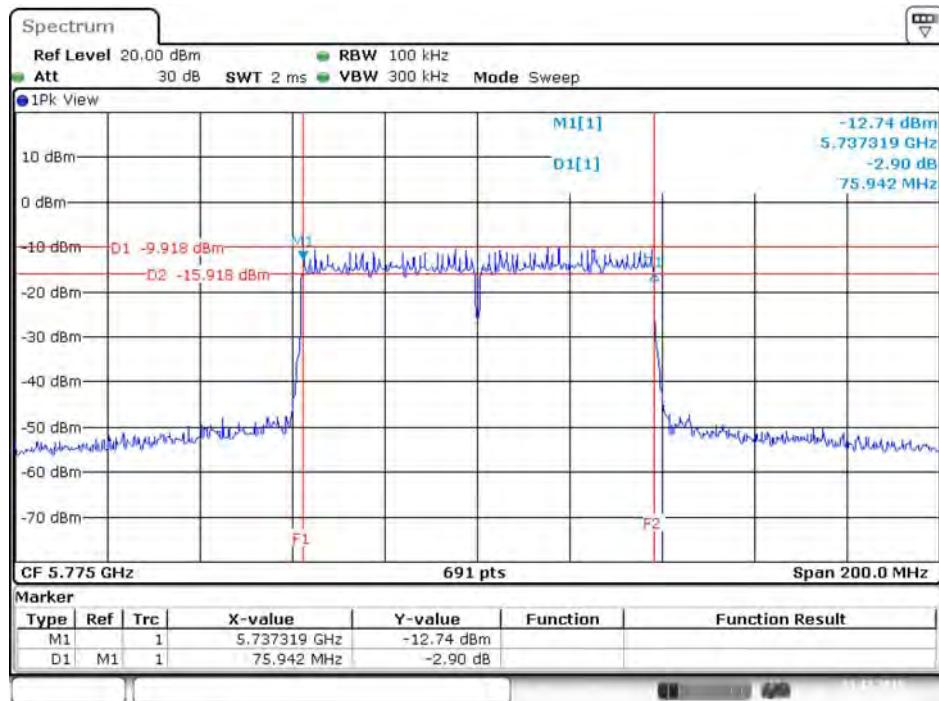
Date: 21.DEC.2015 16:20:38

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 6 / 5775 MHz



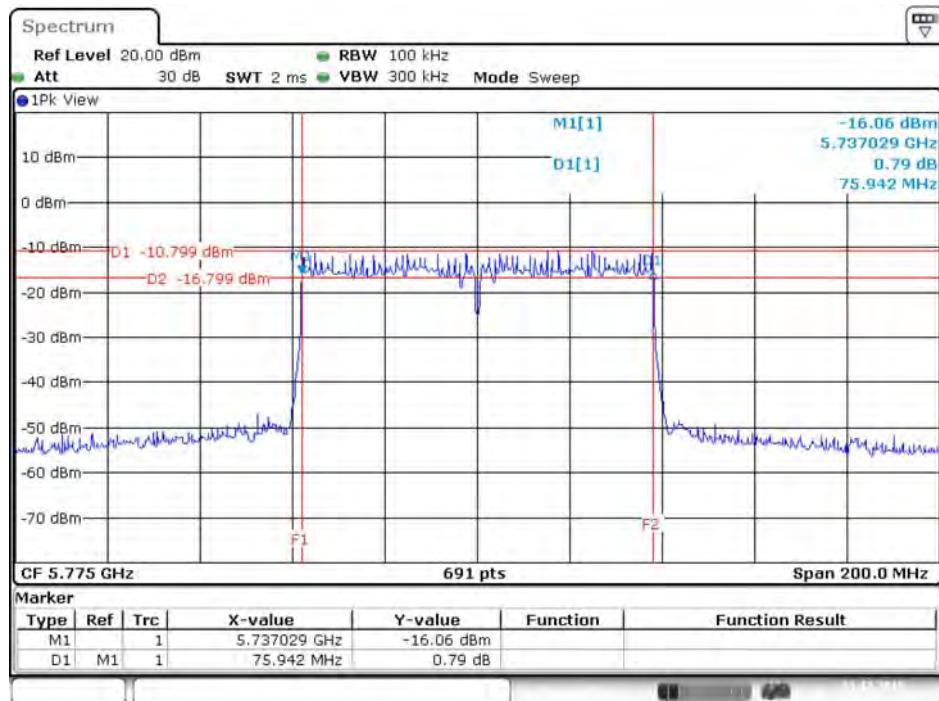
Date: 21.DEC.2015 16:20:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 7 / 5775 MHz



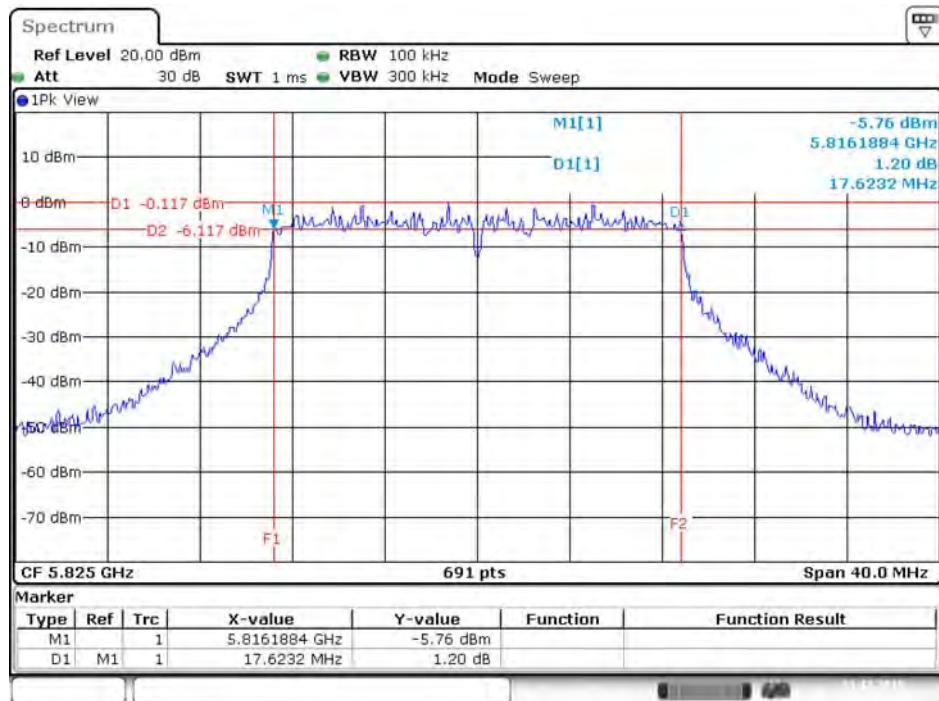
Date: 21.DEC.2015 16:20:06

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 8 / 5775 MHz



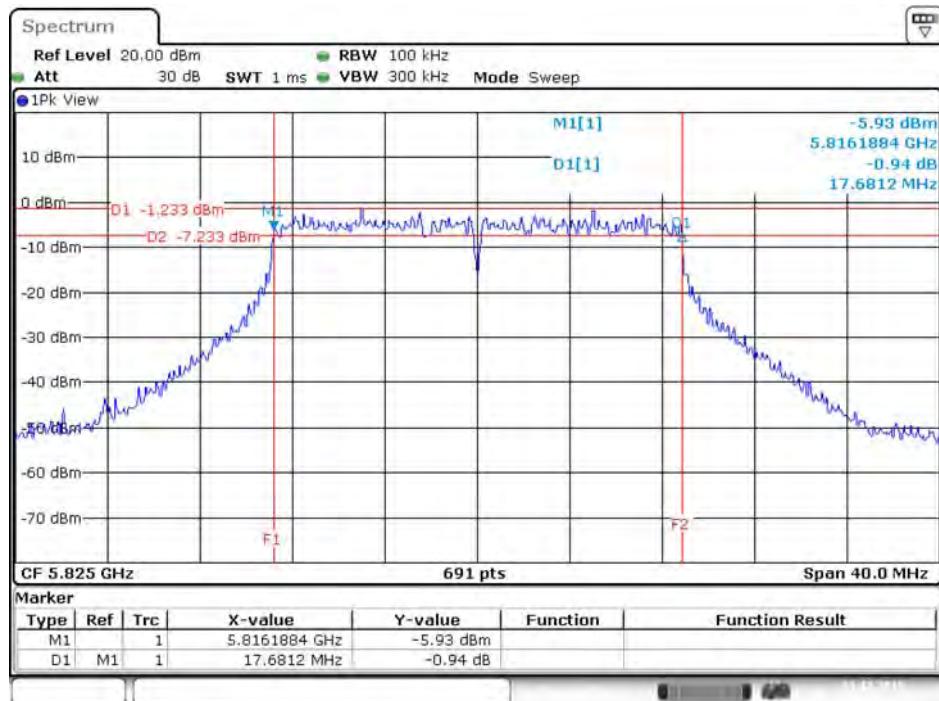
Date: 21.DEC.2015 16:19:42

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 / 5825 MHz



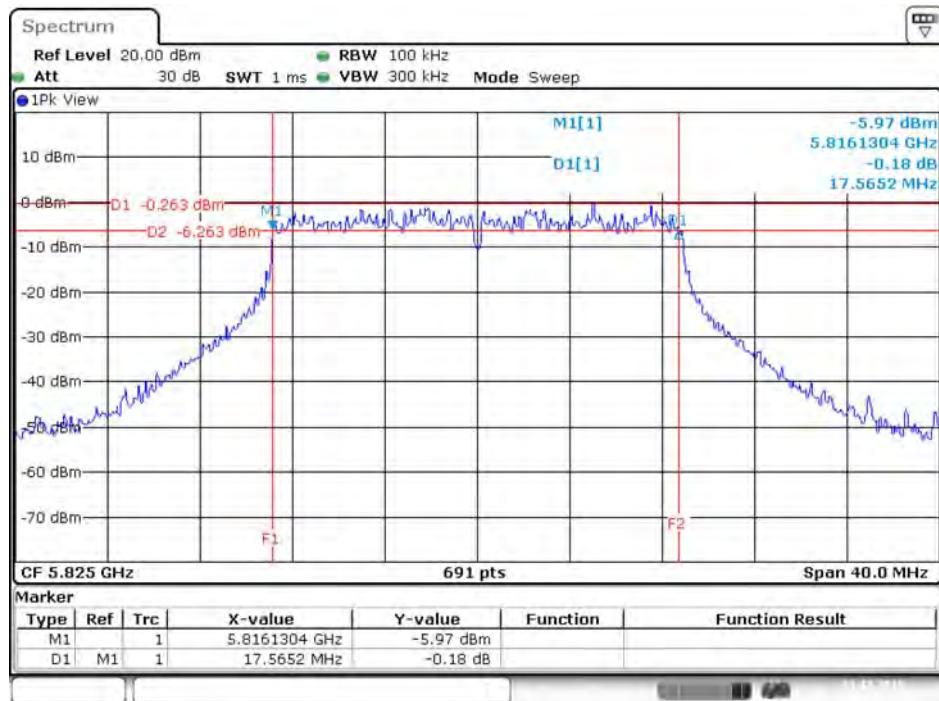
Date: 21.DEC.2015 16:01:57

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 6 / 5825 MHz



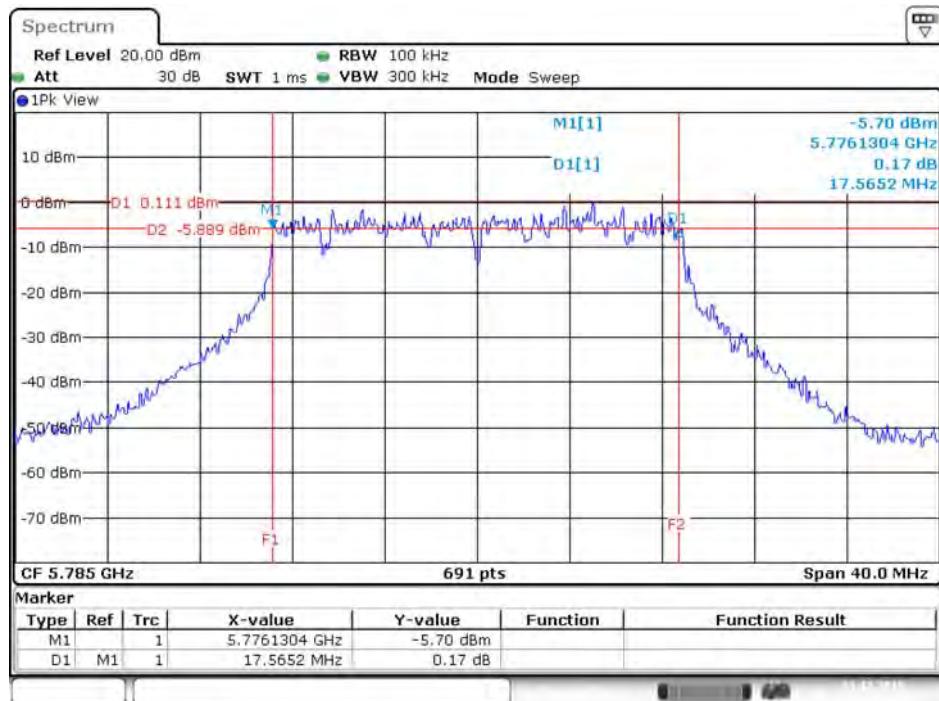
Date: 21.DEC.2015 16:01:39

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 7 / 5825 MHz



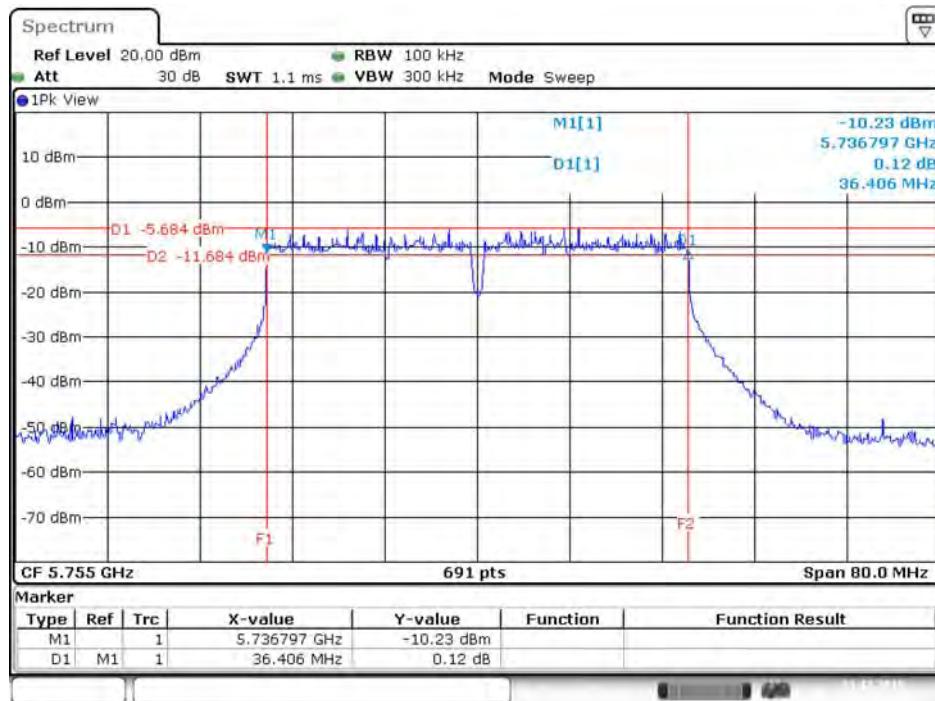
Date: 21.DEC.2015 16:01:21

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 8 / 5785 MHz



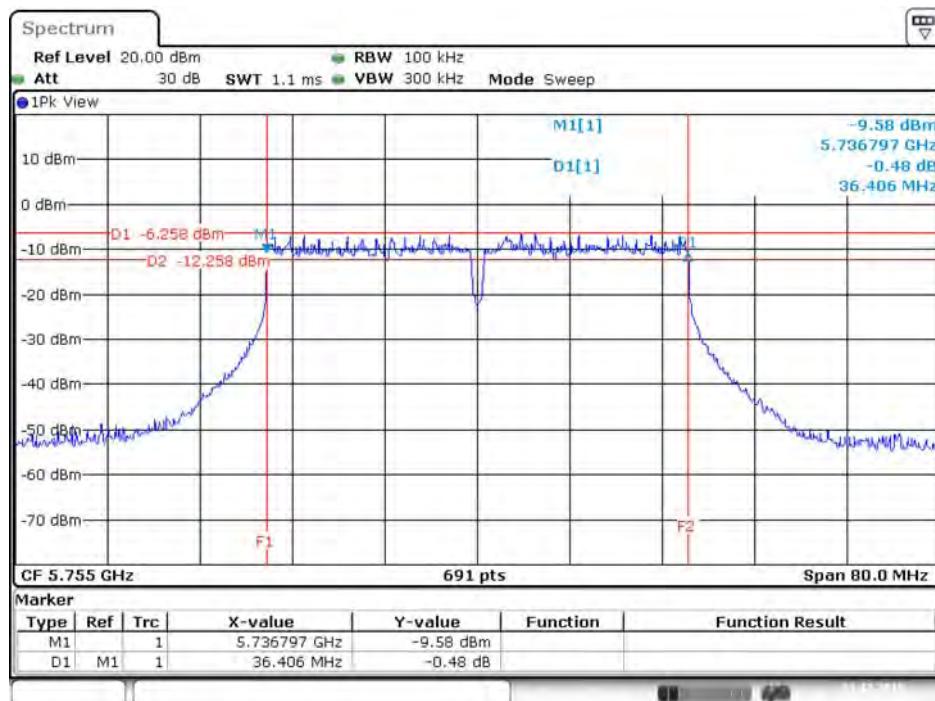
Date: 21.DEC.2015 16:03:37

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 / 5755MHz



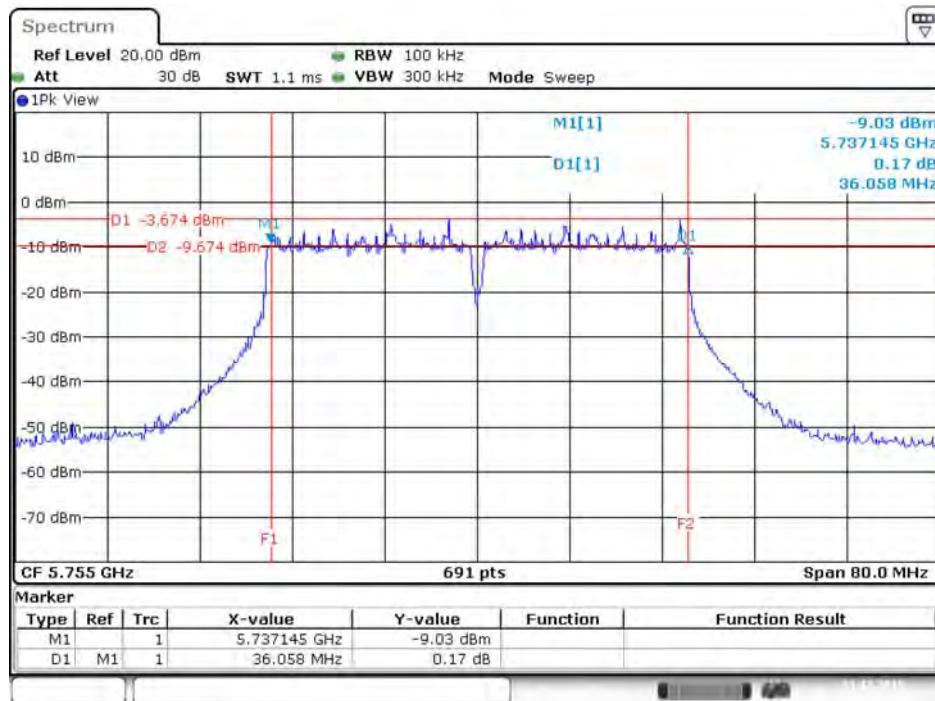
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 6 / 5755MHz

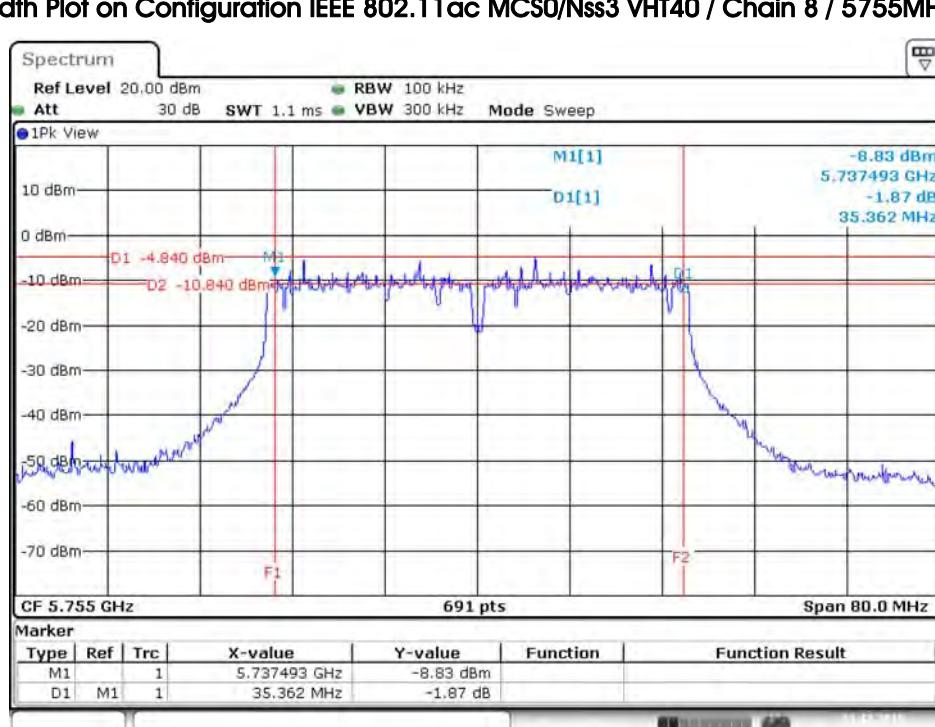


Date: 21.DEC.2015 16:10:49

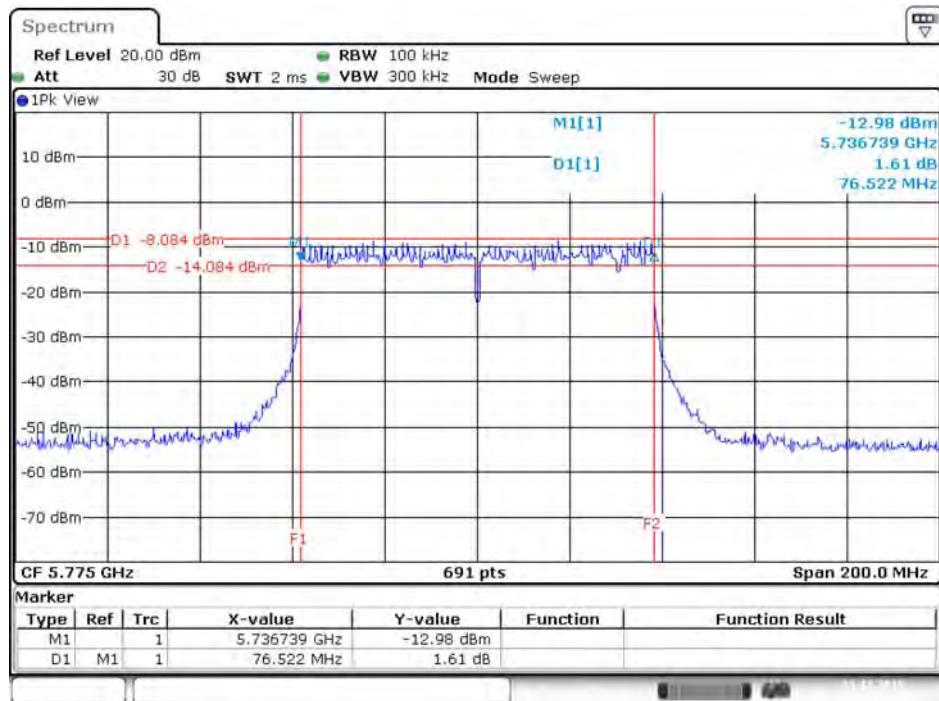
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 7 / 5755MHz



6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 8 / 5755MHz

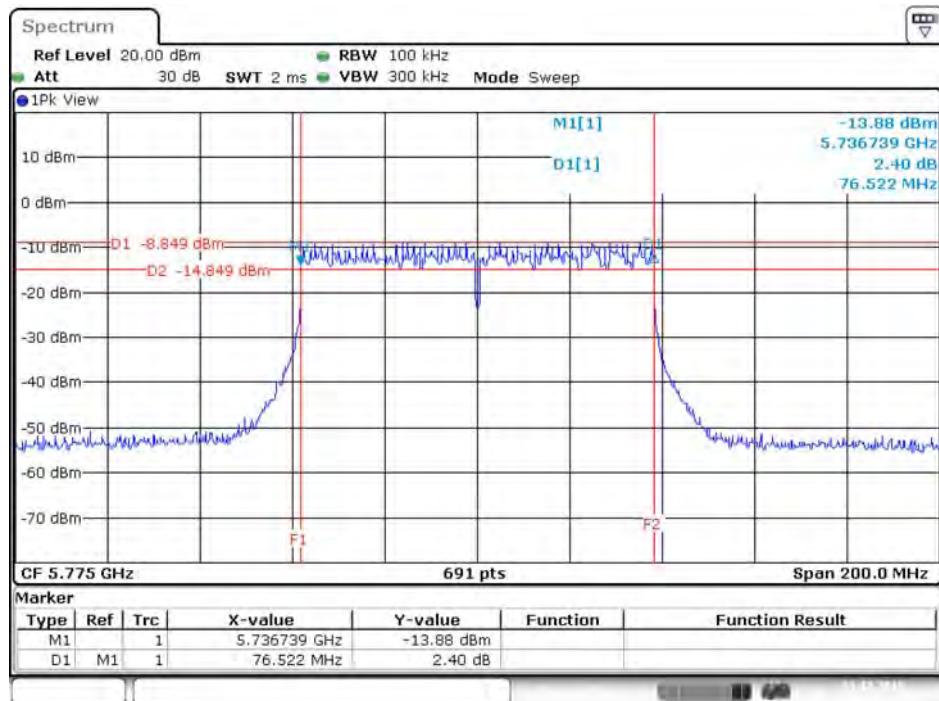


6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 / 5775 MHz



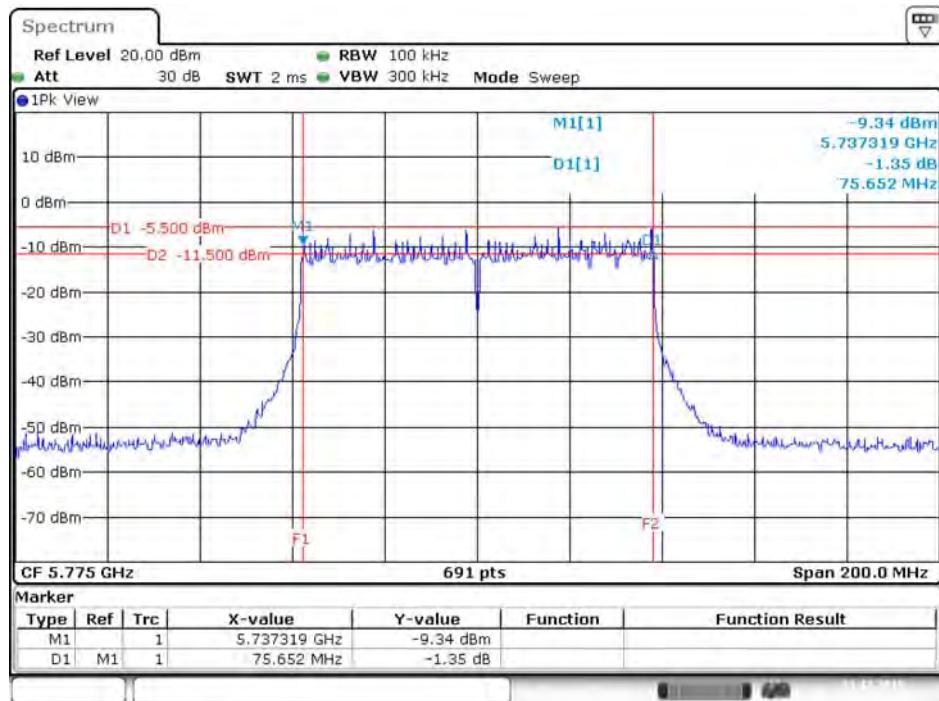
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6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 6 / 5775 MHz



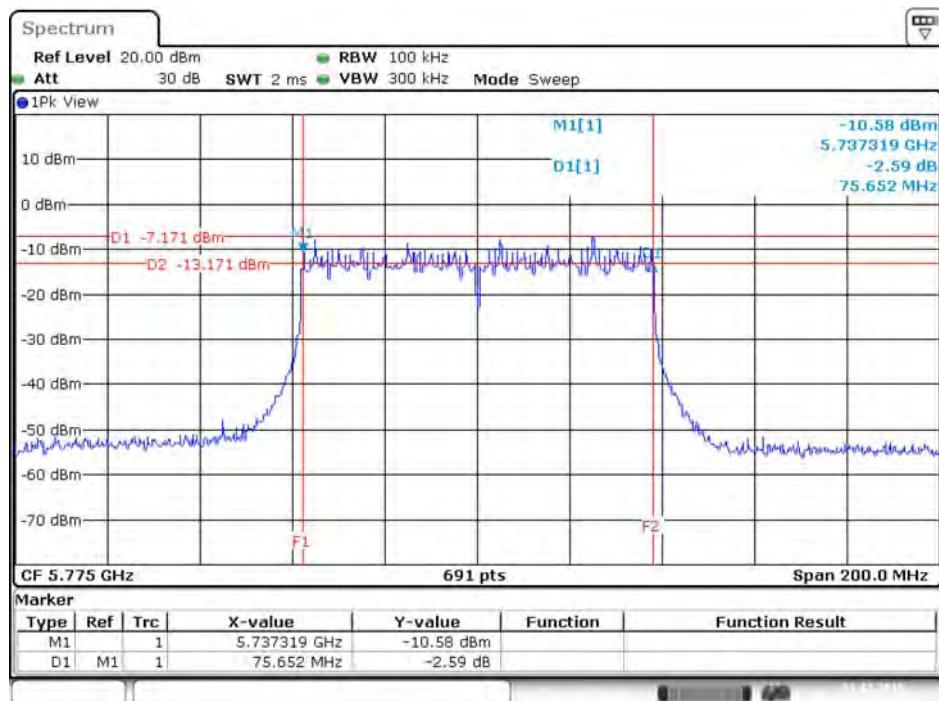
Date: 21.DEC.2015 16:16:44

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 16:17:03

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 8 / 5775 MHz

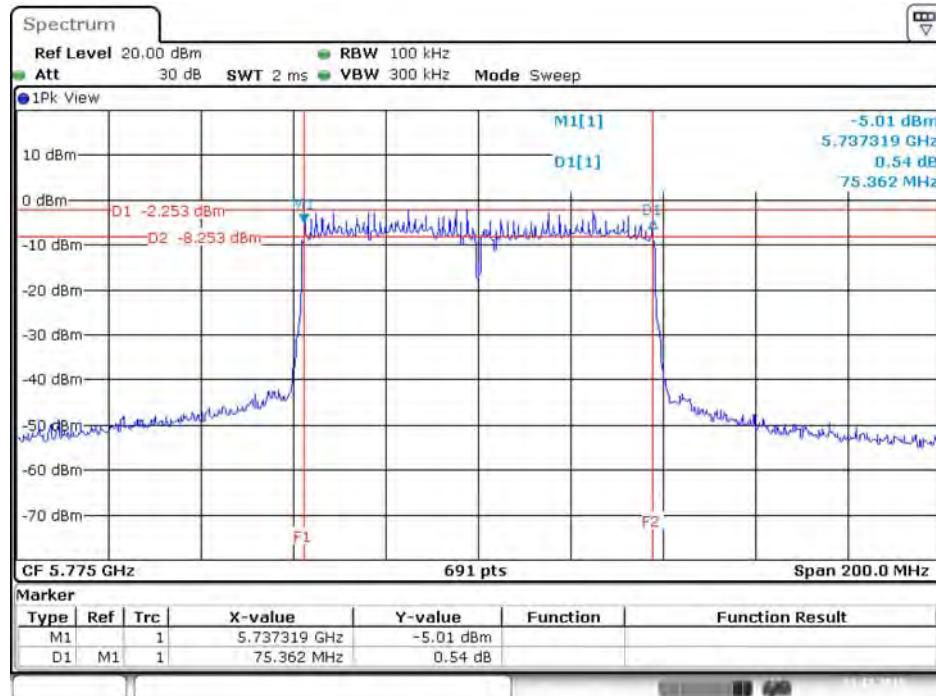


Date: 21.DEC.2015 16:17:56

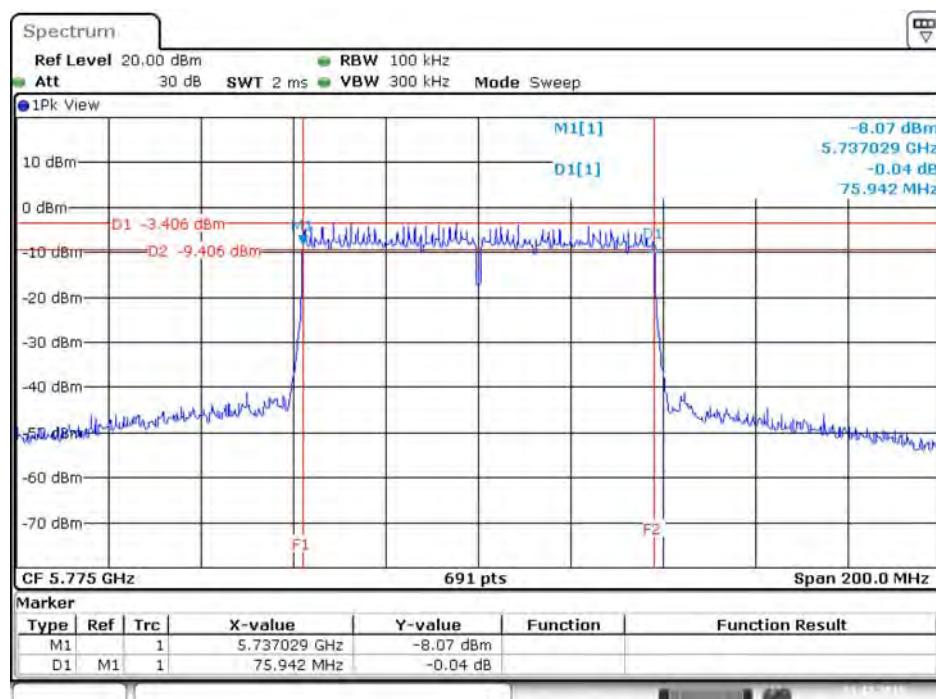
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

6 dB Bandwidth Plot on Chain 7 / 5775 MHz

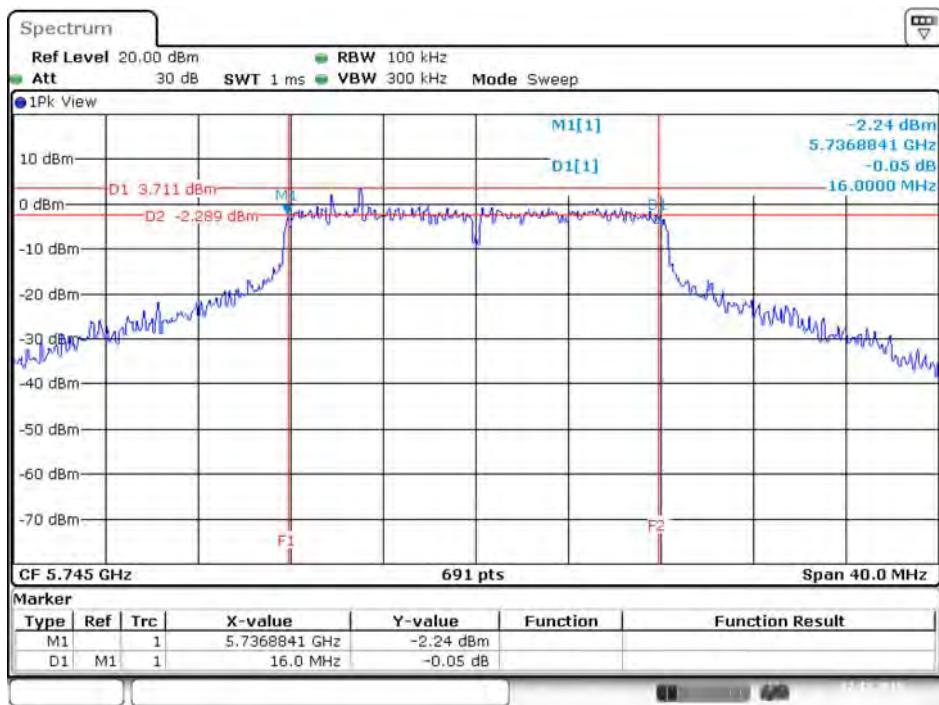


6 dB Bandwidth Plot on Chain 8 / 5775 MHz



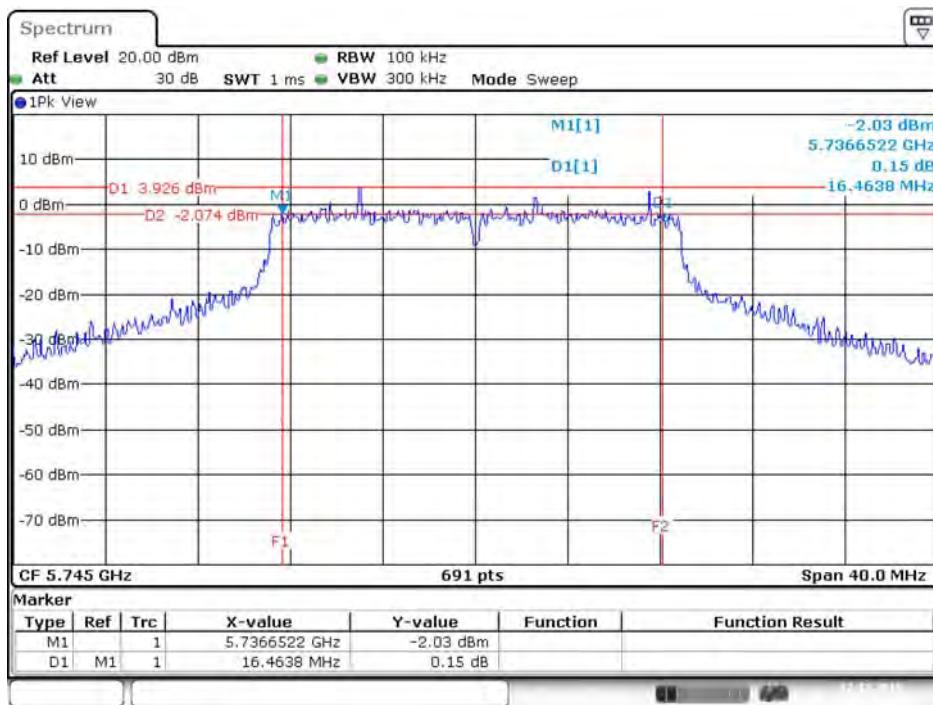
<For Radio 3 Mode>

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5745 MHz



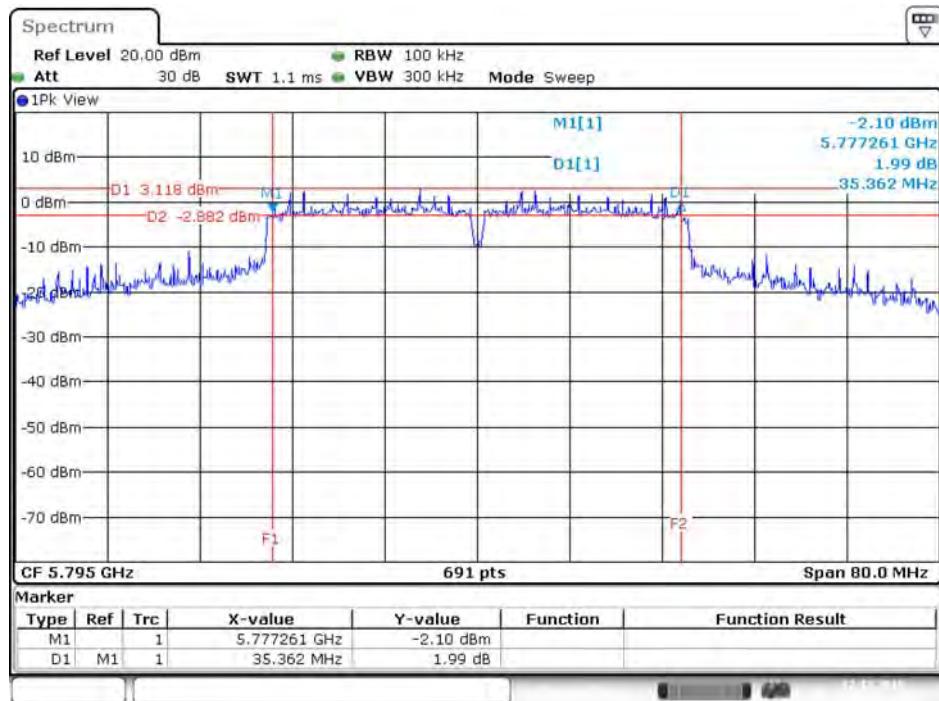
Date: 22.DEC.2015 15:15:35

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5745 MHz



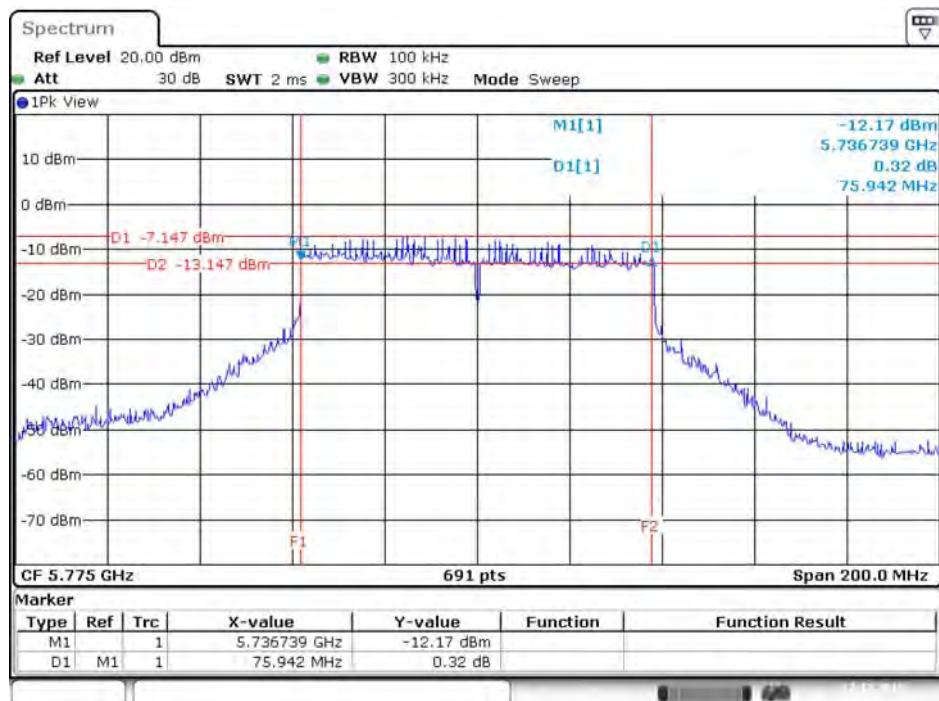
Date: 22.DEC.2015 15:14:58

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795MHz



Date: 22.DEC.2015 15:21:14

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



Date: 22.DEC.2015 15:28:43

4.4. Maximum Conducted Output Power Measurement

4.4.1. Limit

Frequency Band		Limit
<input checked="" type="checkbox"/> 5.15~5.25 GHz		
Operating Mode		
<input type="checkbox"/>	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
<input checked="" type="checkbox"/>	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/>	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
<input type="checkbox"/>	Mobile and portable client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

<input checked="" type="checkbox"/>	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.
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4.4.2. Measuring Instruments and Setting

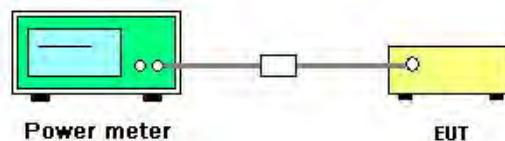
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Detector	AVERAGE

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB 789033 D02 v01r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter).
3. Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	45%
Test Engineer	Mars Lin	Test Date	Sep. 04, 2015 ~ Dec. 22, 2015

<For Radio 2 Non-beamforming Mode>

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11a	5180 MHz	20.17	20.76	20.58	20.34	26.49	30.00	Complies
	5200 MHz	22.44	23.56	22.96	22.82	28.98	30.00	Complies
	5240 MHz	22.80	23.62	23.25	23.03	29.21	30.00	Complies
	5745 MHz	20.38	20.47	20.72	19.92	26.40	30.00	Complies
	5785 MHz	23.82	24.18	23.92	23.35	29.85	30.00	Complies
	5825 MHz	20.78	21.18	20.87	20.49	26.86	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.01	20.54	20.47	20.29	26.35	30.00	Complies
	5200 MHz	22.02	22.79	22.54	22.28	28.44	30.00	Complies
	5240 MHz	22.73	23.49	23.32	23.01	29.17	30.00	Complies
	5745 MHz	20.33	20.32	20.62	19.88	26.32	30.00	Complies
	5785 MHz	23.72	24.14	23.85	23.42	29.81	30.00	Complies
	5825 MHz	20.54	21.04	20.71	20.28	26.67	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	18.91	19.53	19.48	19.11	25.29	30.00	Complies
	5230 MHz	21.01	21.95	21.86	21.36	27.58	30.00	Complies
	5755 MHz	18.28	18.21	18.35	17.81	24.19	30.00	Complies
	5795 MHz	20.24	20.55	19.96	19.97	26.21	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	15.59	15.97	16.25	16.14	22.02	30.00	Complies
	5775 MHz	12.37	12.23	12.19	11.84	18.18	30.00	Complies

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss4 VHT20	5180 MHz	19.82	19.52	19.47	19.27	25.55	30.00	Complies
	5200 MHz	20.59	20.33	20.37	20.24	26.41	30.00	Complies
	5240 MHz	22.82	22.57	22.05	21.97	28.39	30.00	Complies
	5745 MHz	18.13	18.27	18.32	17.68	24.13	30.00	Complies
	5785 MHz	22.40	22.07	22.37	21.64	28.15	30.00	Complies
	5825 MHz	19.61	18.89	18.79	18.78	25.05	30.00	Complies
802.11ac MCS0/Nss4 VHT40	5190 MHz	18.19	17.96	17.53	17.62	23.85	30.00	Complies
	5230 MHz	20.61	20.21	19.68	19.78	26.11	30.00	Complies
	5755 MHz	18.02	17.75	18.18	17.39	23.87	30.00	Complies
	5795 MHz	19.53	19.07	19.37	19.23	25.32	30.00	Complies
802.11ac MCS0/Nss4 VHT80	5210 MHz	15.61	15.60	15.41	15.57	21.57	30.00	Complies
	5775 MHz	15.47	15.15	15.62	14.91	21.32	30.00	Complies

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss2 VHT80+80	5210 MHz	14.85	14.50	-	-	17.69	30.00	Complies
	5775 MHz	-	-	13.62	14.36	17.02	30.00	Complies

<For Radio 2 Beamforming Mode>

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss1 VHT20	5180 MHz	17.24	18.97	17.21	17.29	23.77	29.03	Complies
	5200 MHz	16.05	19.51	17.22	16.25	23.51	29.03	Complies
	5240 MHz	16.97	19.07	17.09	16.57	23.56	29.03	Complies
	5745 MHz	18.22	17.97	18.03	17.03	23.86	25.95	Complies
	5785 MHz	16.92	17.38	17.07	17.93	23.36	25.95	Complies
	5825 MHz	16.57	17.52	17.34	17.85	23.37	25.95	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	14.55	15.21	14.93	15.11	20.98	29.03	Complies
	5230 MHz	18.99	19.12	18.94	18.42	24.90	29.03	Complies
	5755 MHz	15.57	16.24	16.54	15.11	21.92	25.95	Complies
	5795 MHz	18.24	18.17	17.12	18.66	24.10	25.95	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	14.45	14.97	14.69	14.68	20.72	29.03	Complies
	5775 MHz	12.74	11.27	11.49	11.72	17.86	25.95	Complies

Note:

$$\text{Band 1: } \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 30 - (6.97 - 6) = 29.03 \text{ dBm.}$$

$$\text{Band 4: } \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm.}$$

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss2 VHT20	5180 MHz	15.90	16.37	16.66	17.20	22.58	30.00	Complies
	5200 MHz	15.94	16.82	16.91	17.23	22.77	30.00	Complies
	5240 MHz	15.96	16.85	17.43	17.17	22.91	30.00	Complies
	5745 MHz	19.35	19.05	20.34	19.51	25.61	28.84	Complies
	5785 MHz	20.07	20.13	20.33	20.42	26.26	28.84	Complies
	5825 MHz	20.32	19.30	20.56	20.73	26.28	28.84	Complies
802.11ac MCS0/Nss2 VHT40	5190 MHz	15.06	15.54	16.00	16.43	21.81	30.00	Complies
	5230 MHz	17.23	17.78	17.95	18.44	23.89	30.00	Complies
	5755 MHz	16.66	15.44	16.14	16.08	22.12	28.84	Complies
	5795 MHz	19.00	19.02	19.52	19.91	25.40	28.84	Complies
802.11ac MCS0/Nss2 VHT80	5210 MHz	14.08	14.41	14.75	14.88	20.56	30.00	Complies
	5775 MHz	12.64	12.23	12.85	12.72	18.64	28.84	Complies

Note:

$$\text{Band 1: } \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi, } < 6 \text{ dBi, so the limit doesn't reduce.}$$

$$\text{Band 4: } \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi, so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm.}$$

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss3 VHT20	5180 MHz	16.92	17.20	17.49	17.85	23.40	30.00	Complies
	5200 MHz	16.91	17.61	17.78	18.02	23.62	30.00	Complies
	5240 MHz	16.84	17.60	18.05	18.02	23.67	30.00	Complies
	5745 MHz	13.26	12.91	13.53	13.21	19.25	30.00	Complies
	5785 MHz	20.43	20.61	20.51	21.06	26.68	30.00	Complies
	5825 MHz	15.89	15.61	16.12	16.32	22.01	30.00	Complies
802.11ac MCS0/Nss3 VHT40	5190 MHz	13.48	13.34	14.05	14.27	19.82	30.00	Complies
	5230 MHz	17.04	17.78	18.25	18.13	23.85	30.00	Complies
	5755 MHz	15.41	15.07	15.33	15.37	21.32	30.00	Complies
	5795 MHz	17.06	17.28	17.23	17.63	23.33	30.00	Complies
802.11ac MCS0/Nss3 VHT80	5210 MHz	14.24	14.74	15.01	15.28	20.85	30.00	Complies
	5775 MHz	14.25	14.05	14.37	14.27	20.26	30.00	Complies

Band 1: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}$, < 6dBi, so the limit doesn't reduce.

Band 4: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}$, < 6dBi, so the limit doesn't reduce.

Mode	Frequency	Conducted Power (dBm)					Max. Limit (dBm)	Result
		Chain 5	Chain 6	Chain 7	Chain 8	Total		
802.11ac MCS0/Nss2 VHT80+80	5210 MHz	17.12	17.68	-	-	20.42	30.00	Complies
	5775 MHz	-	-	18.21	18.98	21.62	28.84	Complies

Band 1: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}$, <6dBi, so the limit doesn't reduce.

Band 4: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}$, so limit = $30 - (7.16 - 6) = 28.84 \text{ dBm}$.

<For Radio 3 Mode>

Mode	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
802.11a	5180 MHz	19.63	30.00	Complies
	5200 MHz	21.37	30.00	Complies
	5240 MHz	15.57	30.00	Complies
	5745 MHz	16.01	30.00	Complies
	5785 MHz	20.88	30.00	Complies
	5825 MHz	20.14	30.00	Complies
802.11ac MCS0/Nss1 VHT20	5180 MHz	19.02	30.00	Complies
	5200 MHz	21.78	30.00	Complies
	5240 MHz	14.95	30.00	Complies
	5745 MHz	16.15	30.00	Complies
	5785 MHz	20.59	30.00	Complies
	5825 MHz	18.45	30.00	Complies
802.11ac MCS0/Nss1 VHT40	5190 MHz	13.93	30.00	Complies
	5230 MHz	16.91	30.00	Complies
	5755 MHz	13.95	30.00	Complies
	5795 MHz	19.41	30.00	Complies
802.11ac MCS0/Nss1 VHT80	5210 MHz	11.61	30.00	Complies
	5775 MHz	12.22	30.00	Complies

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
<input checked="" type="checkbox"/>	5.15~5.25 GHz	
Operating Mode		
<input type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input type="checkbox"/>	Mobile and portable client devices	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	
	30 dBm/500kHz	

4.5.2. Measuring Instruments and Setting

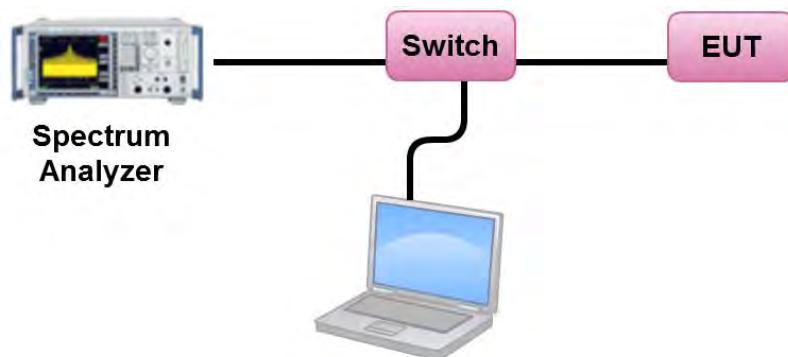
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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 ($< 500 \text{ kHz}$) 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 KDB 789033 D02 v01r01 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 $\leq 30 \text{ dBm}$.

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

Temperature	25°C	Humidity	45%
Test Engineer	Mars Lin		

<For Radio 2 Non-beamforming Mode>

Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	13.41	16.03	Complies
40	5200 MHz	15.98	16.03	Complies
48	5240 MHz	15.98	16.03	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$, so limit = $17 - (6.97 - 6) = 16.03 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	13.36	-3.01	10.35	25.95	Complies
157	5785 MHz	16.06	-3.01	13.05	25.95	Complies
165	5825 MHz	13.75	-3.01	10.74	25.95	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$, so limit = $30 - (10.05 - 6) = 25.95 \text{ dBm/MHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	13.28	16.03	Complies
40	5200 MHz	15.17	16.03	Complies
48	5240 MHz	15.94	16.03	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$, so limit = $17 - (6.97 - 6) = 16.03 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	13.19	-3.01	10.18	25.95	Complies
157	5785 MHz	16.06	-3.01	13.05	25.95	Complies
165	5825 MHz	13.62	-3.01	10.61	25.95	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$, so limit = $30 - (10.05 - 6) = 25.95 \text{ dBm/MHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	9.17	16.03	Complies
46	5230 MHz	11.52	16.03	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$, so limit = $17 - (6.97 - 6) = 16.03 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	8.05	-3.01	5.04	25.95	Complies
159	5795 MHz	9.98	-3.01	6.97	25.95	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$, so limit = $30 - (10.05 - 6) = 25.95 \text{ dBm/MHz}$.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	2.79	16.03	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$, so limit = $17 - (6.97 - 6) = 16.03 \text{ dBm/MHz}$.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.89	-3.01	-3.90	25.95	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$, so limit = $30 - (10.05 - 6) = 25.95 \text{ dBm/MHz}$.

Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	12.29	17.00	Complies
40	5200 MHz	13.18	17.00	Complies
48	5240 MHz	15.23	17.00	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	11.02	-3.01	8.01	30.00	Complies
157	5785 MHz	14.93	-3.01	11.92	30.00	Complies
165	5825 MHz	11.88	-3.01	8.87	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	7.55	17.00	Complies
46	5230 MHz	9.78	17.00	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	7.79	-3.01	4.78	30.00	Complies
159	5795 MHz	9.16	-3.01	6.15	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	2.44	17.00	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	2.06	-3.01	-0.95	30.00	Complies

802.11ac MCS0/Nss2 VHT80+80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-1.52	17.00	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}$, <6dBi, so the limit doesn't reduce.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-2.07	-3.01	-5.08	28.84	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}$, so limit = $30 - (7.16 - 6) = 28.84 \text{ dBm/MHz}$.

<For Radio 2 Beamforming Mode>
Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.70	16.03	Complies
40	5200 MHz	10.48	16.03	Complies
48	5240 MHz	10.47	16.03	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	10.24	-3.01	7.23	25.95	Complies
157	5785 MHz	10.23	-3.01	7.22	25.95	Complies
165	5825 MHz	10.29	-3.01	7.28	25.95	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	4.85	16.03	Complies
46	5230 MHz	8.80	16.03	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	5.85	-3.01	2.84	25.95	Complies
159	5795 MHz	7.99	-3.01	4.98	25.95	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.66	16.03	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-1.26	-3.01	-4.27	25.95	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	9.39	17.00	Complies
40	5200 MHz	9.56	17.00	Complies
48	5240 MHz	9.69	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	12.54	-3.01	9.53	28.84	Complies
157	5785 MHz	12.96	-3.01	9.95	28.84	Complies
165	5825 MHz	13.00	-3.01	9.99	28.84	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi, so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	5.55	17.00	Complies
46	5230 MHz	7.86	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	5.96	-3.01	2.95	28.84	Complies
159	5795 MHz	9.19	-3.01	6.18	28.84	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.47	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-0.58	-3.01	-3.59	28.84	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi, so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$

Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.26	17.00	Complies
40	5200 MHz	10.51	17.00	Complies
48	5240 MHz	10.46	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	5.99	-3.01	2.98	30.00	Complies
157	5785 MHz	13.57	-3.01	10.56	30.00	Complies
165	5825 MHz	8.95	-3.01	5.94	30.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	3.74	17.00	Complies
46	5230 MHz	7.59	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	5.11	-3.01	2.10	30.00	Complies
159	5795 MHz	7.19	-3.01	4.18	30.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.63	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	1.12	-3.01	-1.89	30.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

802.11ac MCS0/Nss2 VHT80+80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	1.34	17.00	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	1.95	-3.01	-1.06	28.84	Complies

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi, so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$



Temperature	25°C	Humidity	45%
Test Engineer	Mars Lin		

<For Radio 3 Mode>

Configuration IEEE 802.11a / Chain 9

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	6.57	17.00	Complies
40	5200 MHz	8.16	17.00	Complies
48	5240 MHz	2.28	17.00	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	2.80	-3.01	-0.21	30.00	Complies
157	5785 MHz	7.65	-3.01	4.64	30.00	Complies
165	5825 MHz	6.96	-3.01	3.95	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	5.96	17.00	Complies
40	5200 MHz	8.52	17.00	Complies
48	5240 MHz	1.68	17.00	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	3.14	-3.01	0.13	30.00	Complies
157	5785 MHz	7.59	-3.01	4.58	30.00	Complies
165	5825 MHz	5.38	-3.01	2.37	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-2.12	17.00	Complies
46	5230 MHz	0.88	17.00	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	-2.75	-3.01	-5.76	30.00	Complies
159	5795 MHz	2.97	-3.01	-0.04	30.00	Complies

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-7.73	17.00	Complies

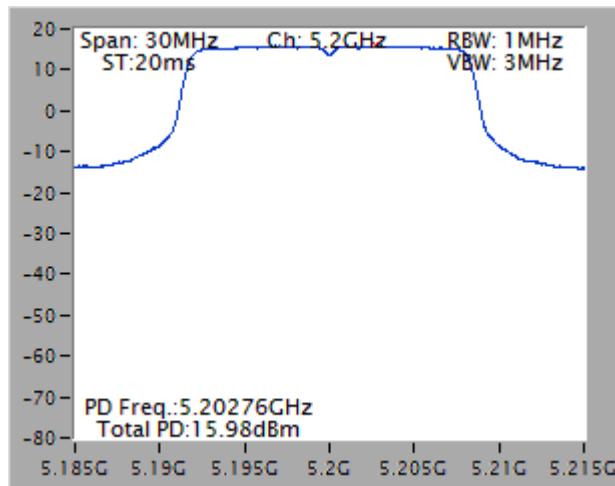
Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	-10.93	-3.01	-13.94	30.00	Complies

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

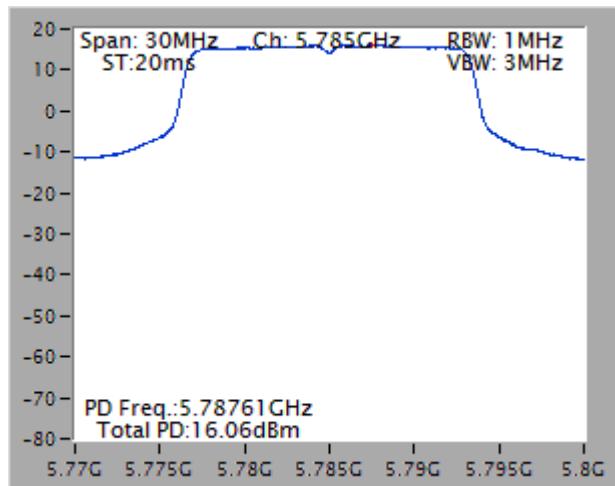
For plots, only the channel with worse result was shown.

<For Radio 2 Non-beamforming Mode>

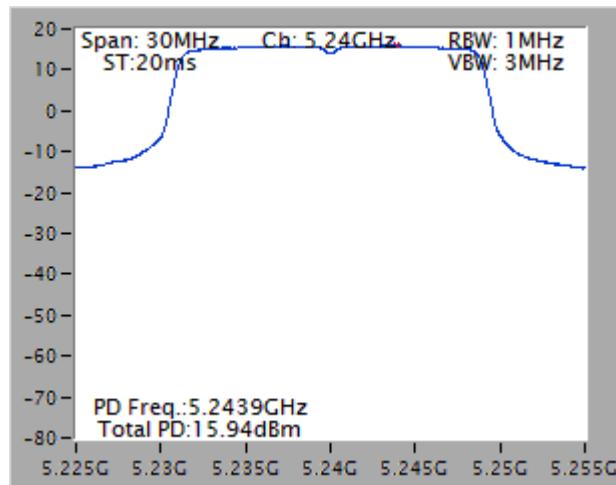
Power Density Plot on Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5200 MHz



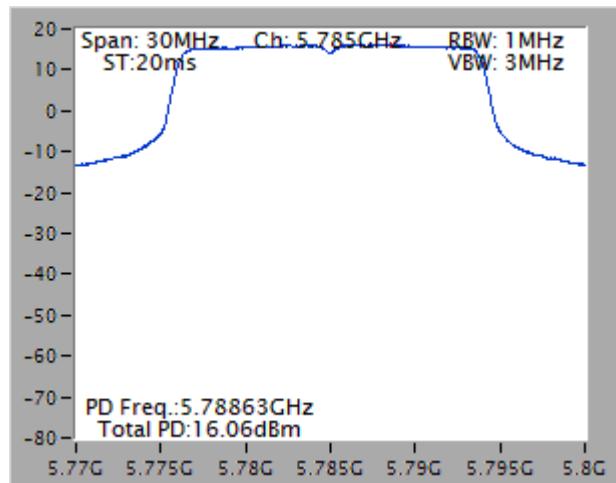
Power Density Plot on Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



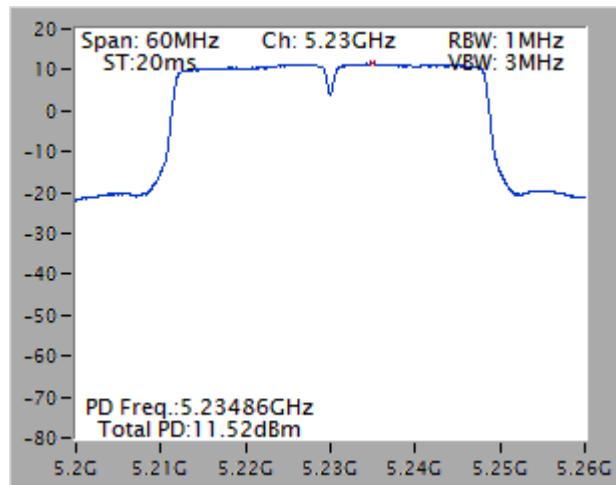
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz



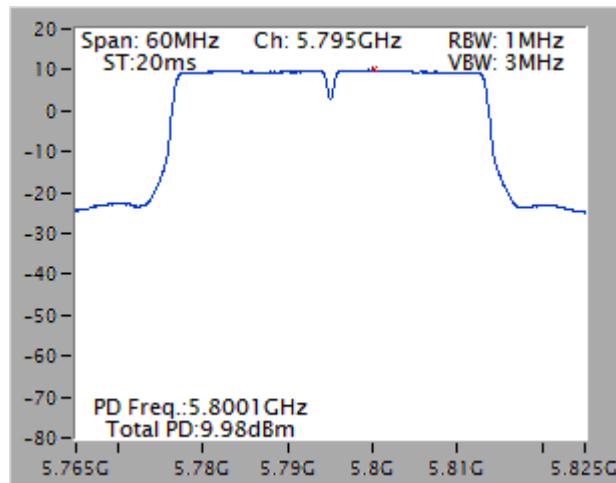
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



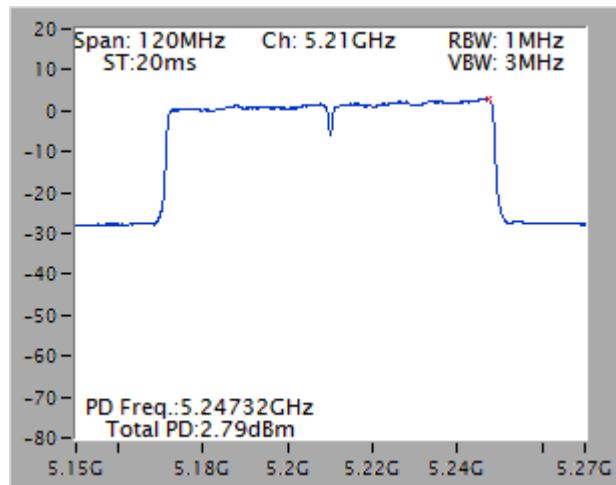
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



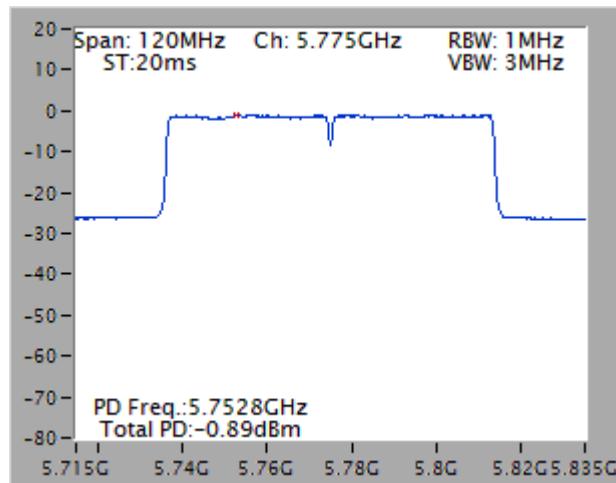
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



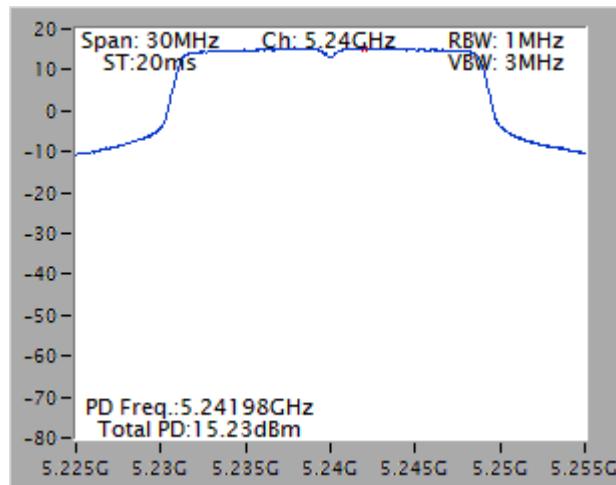
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



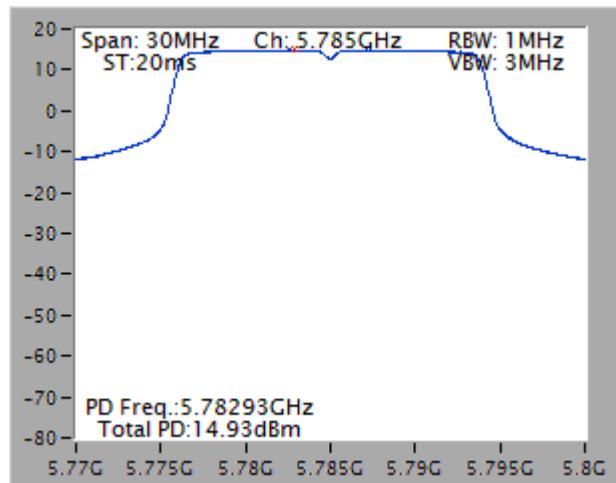
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



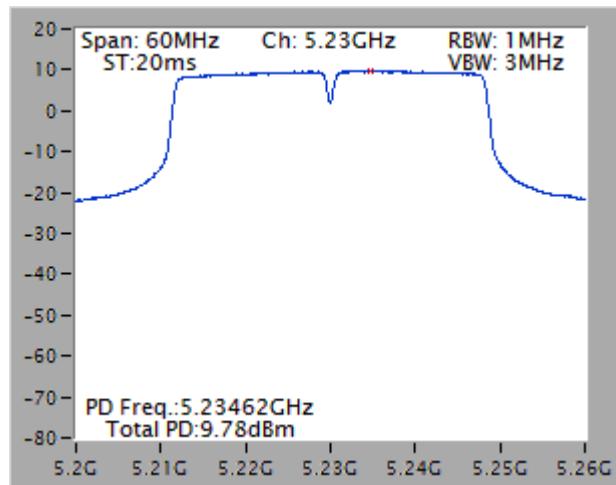
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz



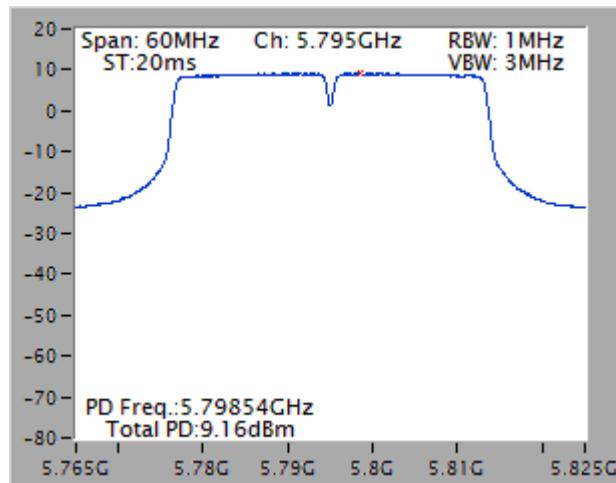
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



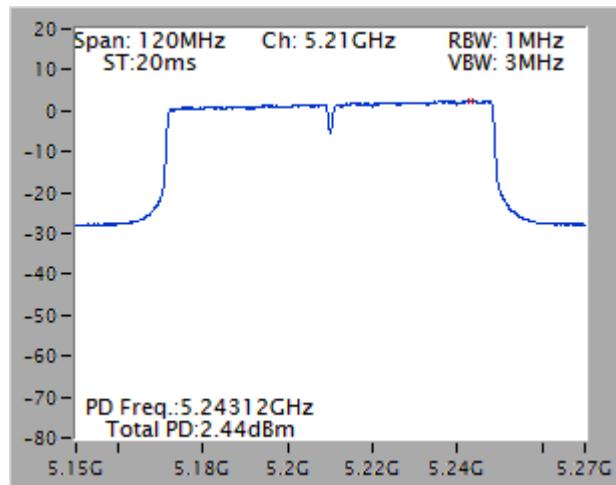
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



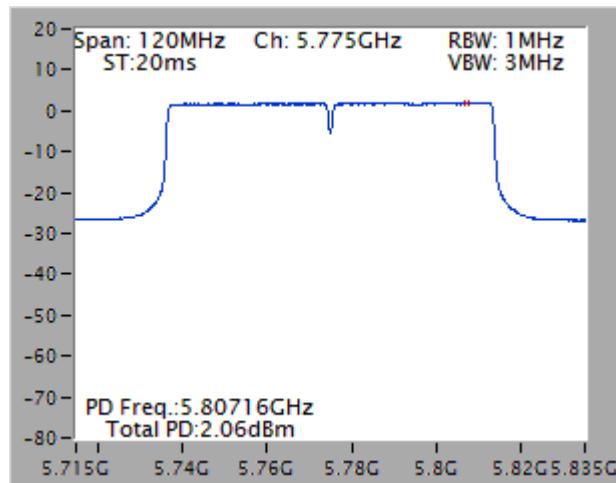
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



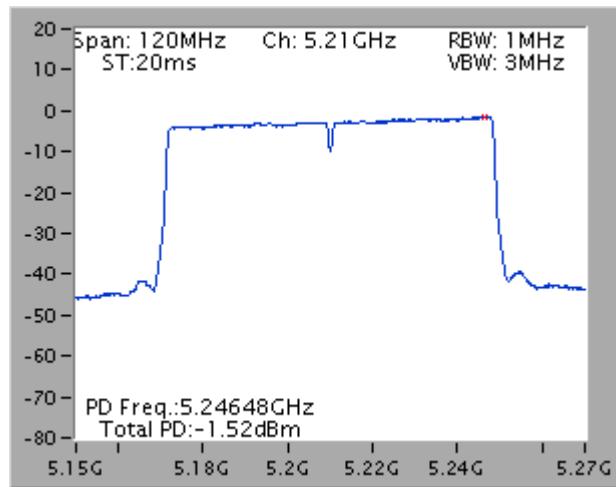
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



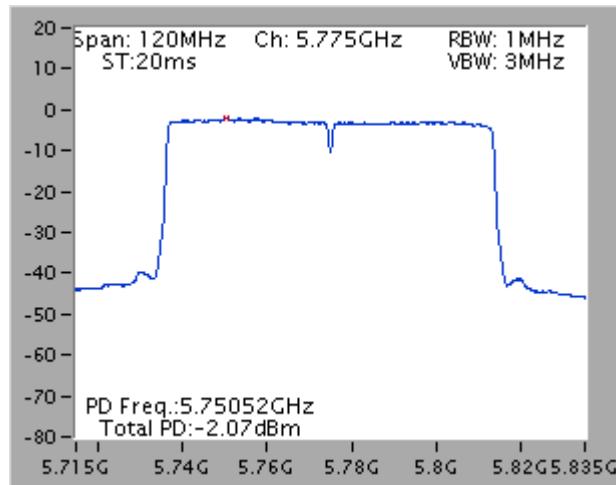
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

Power Density Plot on Chain 5 + Chain 6 / 5210 MHz

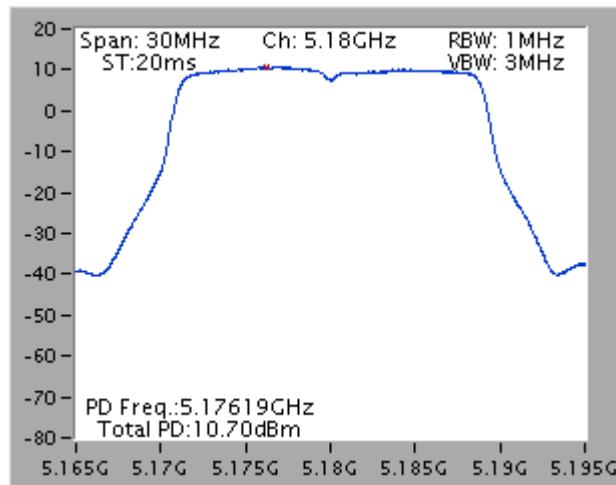


Power Density Plot on Chain 7 + Chain 8 / 5775 MHz

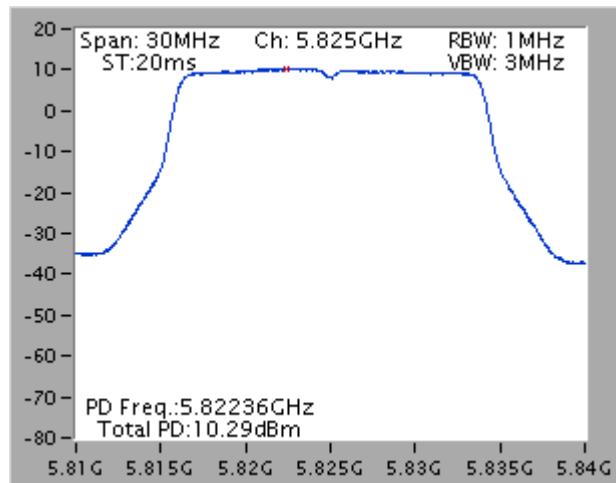


<For Radio 2 Beamforming Mode>

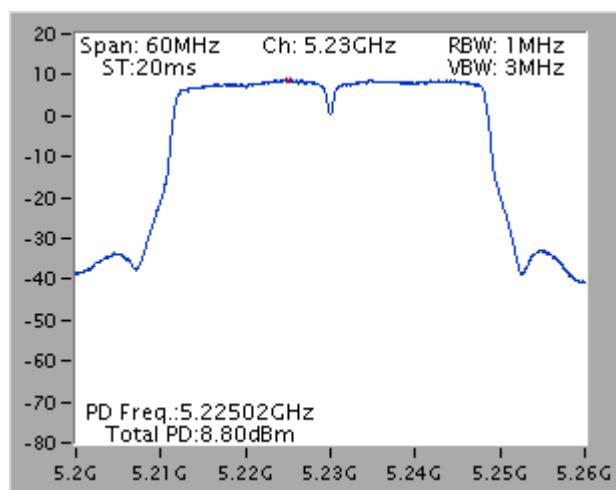
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5180 MHz



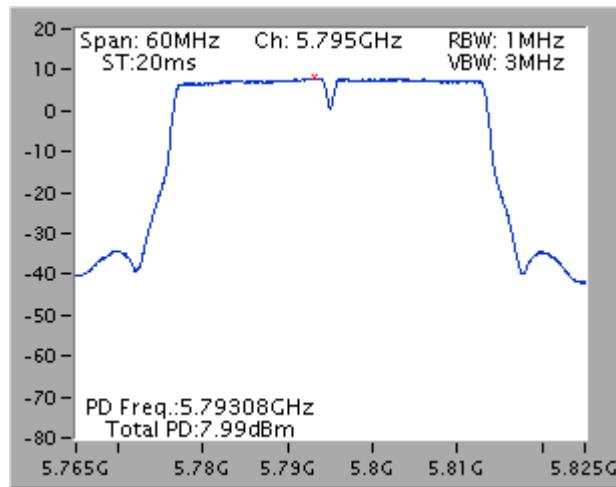
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5825 MHz



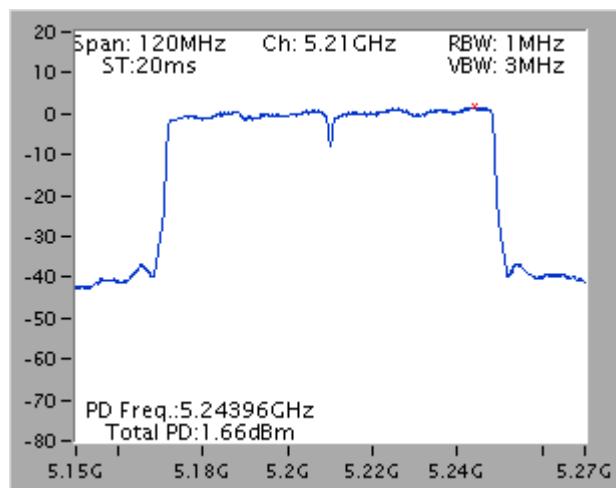
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



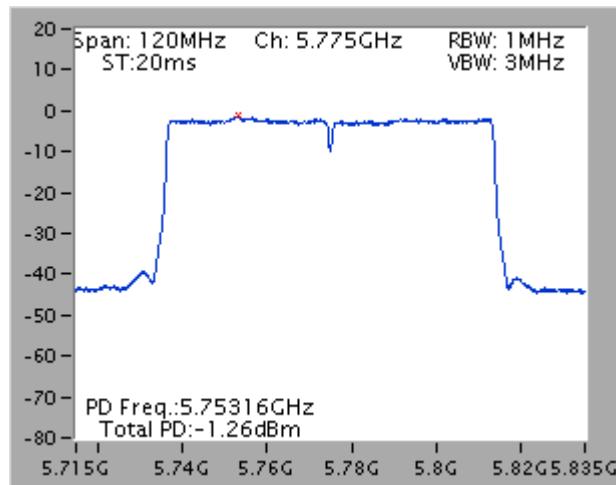
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



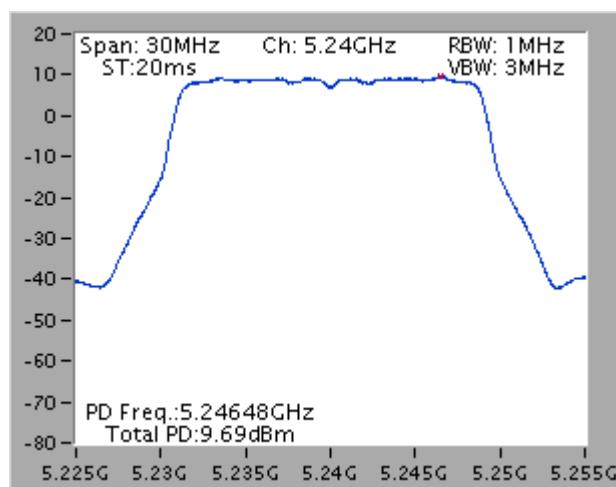
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



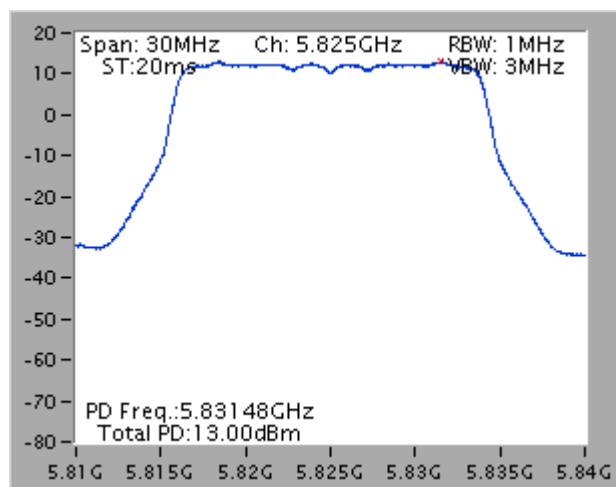
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



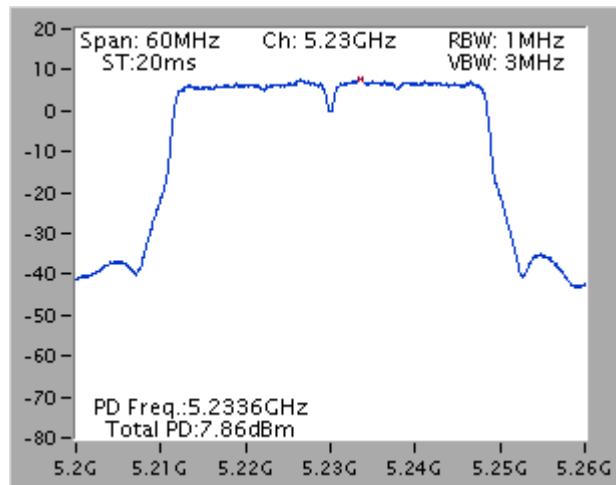
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz



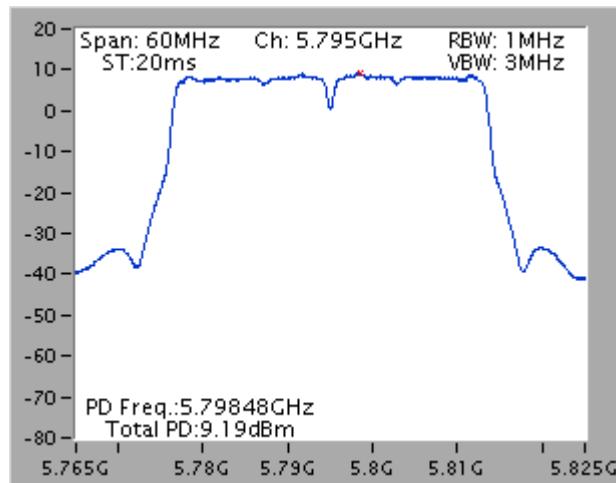
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5825 MHz



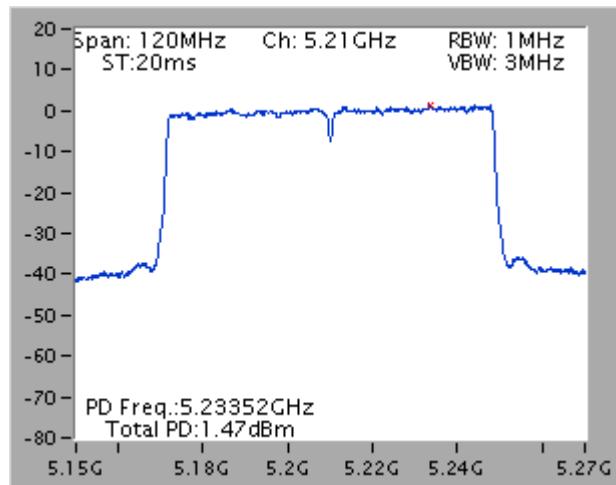
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



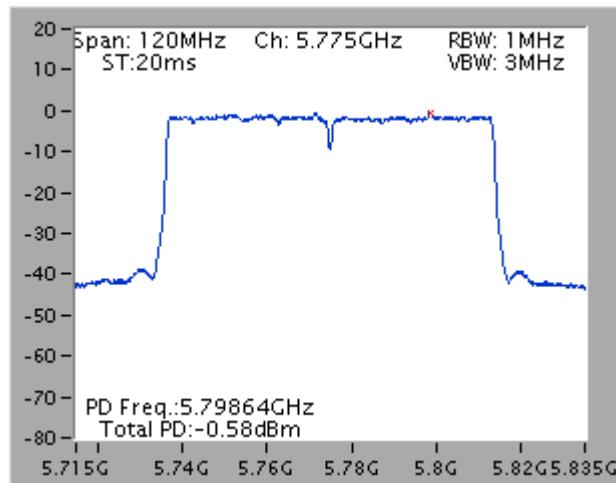
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



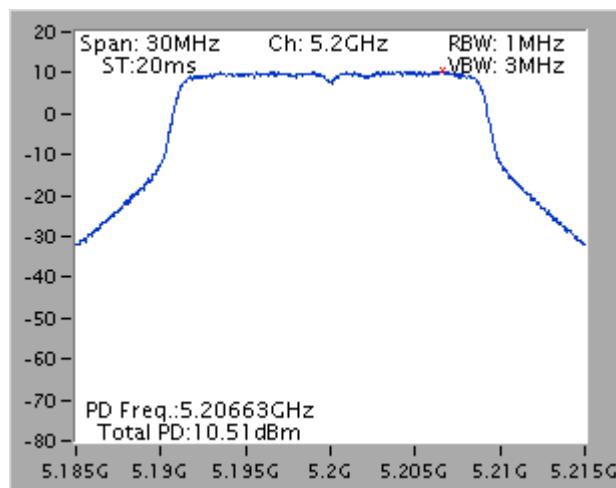
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



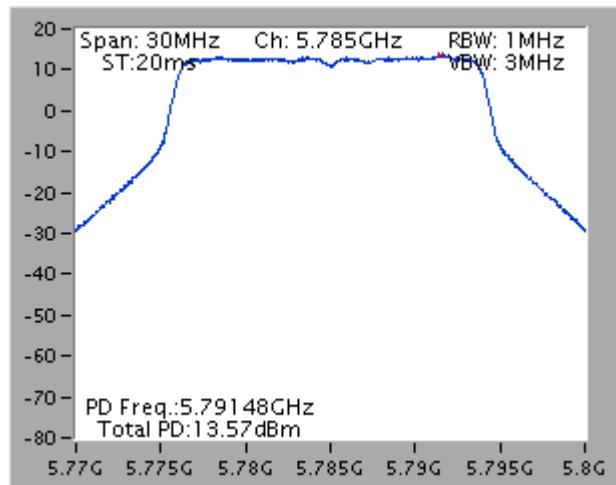
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



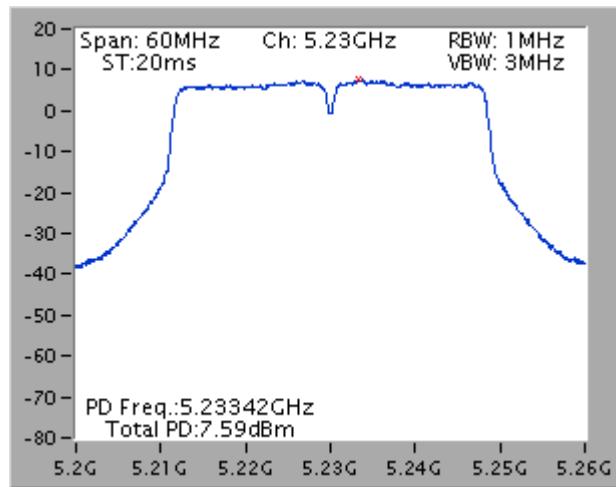
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5200 MHz



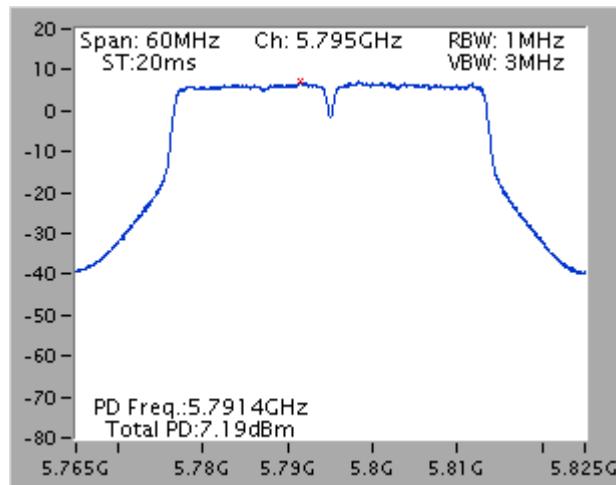
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



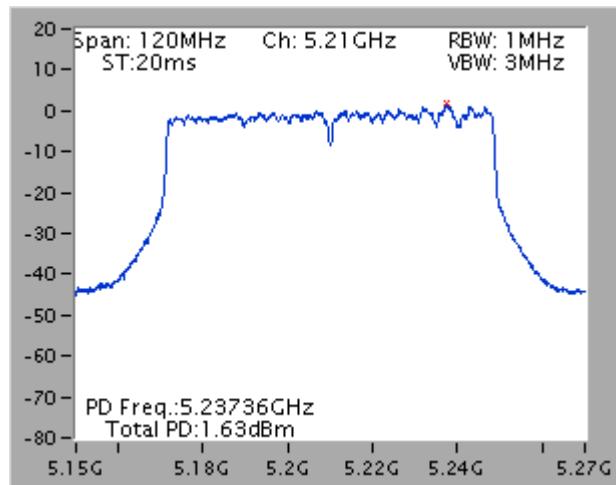
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



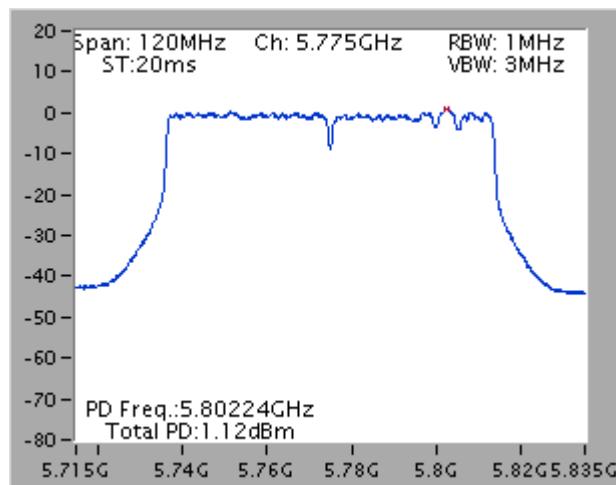
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



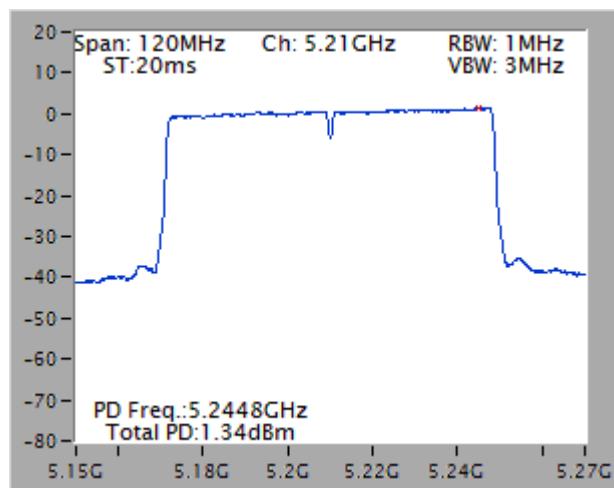
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



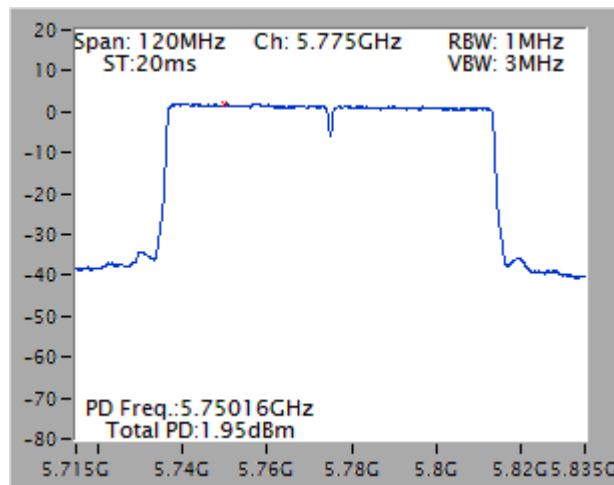
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

Power Density Plot on Chain 5 + Chain 6 / 5210 MHz

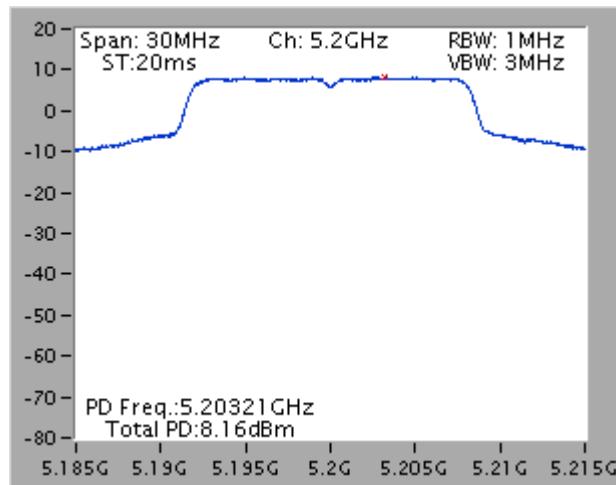


Power Density Plot on Chain 7 + Chain 8 / 5775 MHz

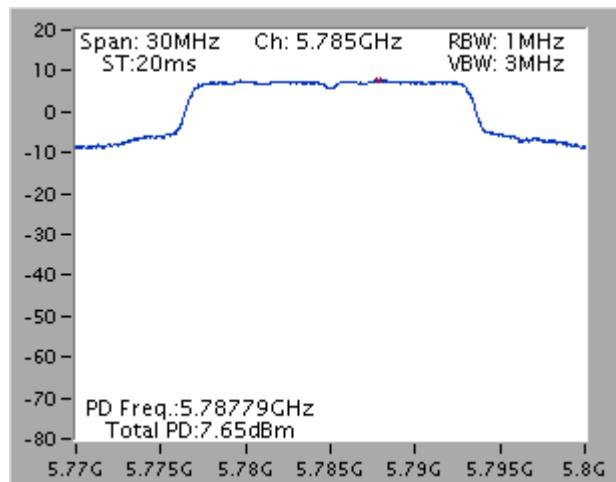


<For Radio 3 Mode>

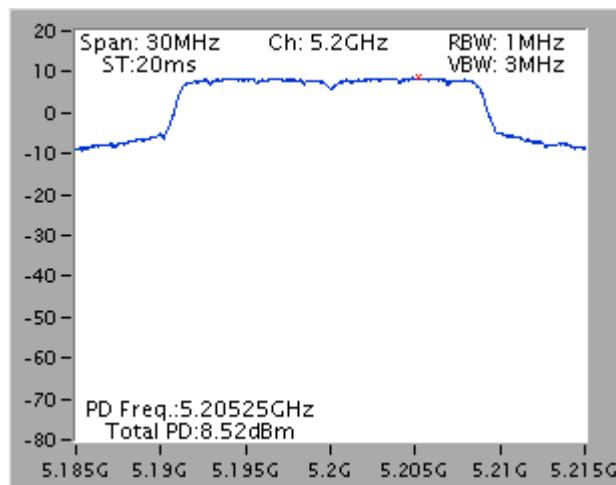
Power Density Plot on Configuration IEEE 802.11a / Chain 9 / 5200 MHz



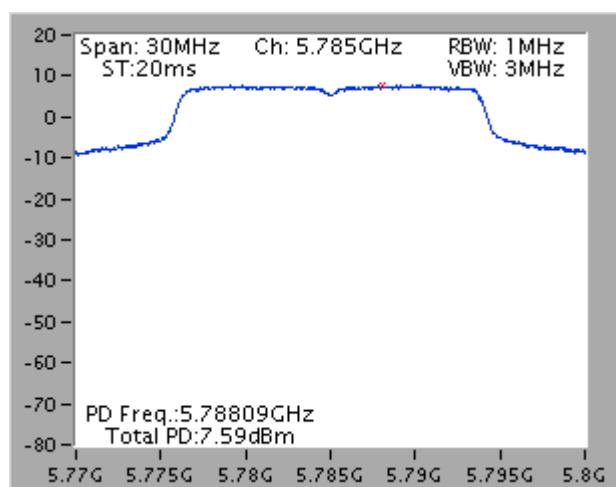
Power Density Plot on Configuration IEEE 802.11a / Chain 9 / 5785 MHz



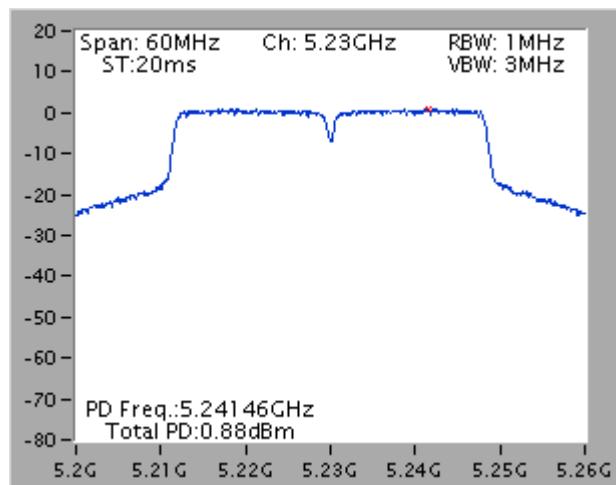
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5200 MHz



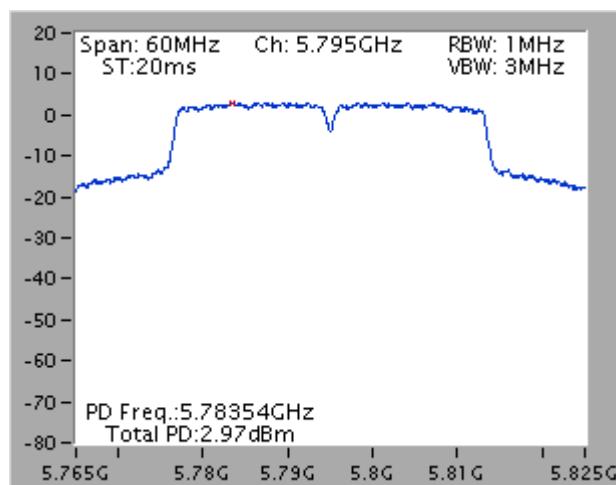
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5785 MHz



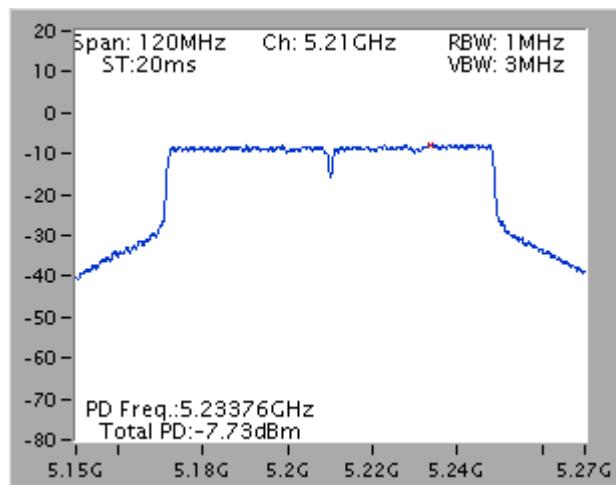
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5230 MHz



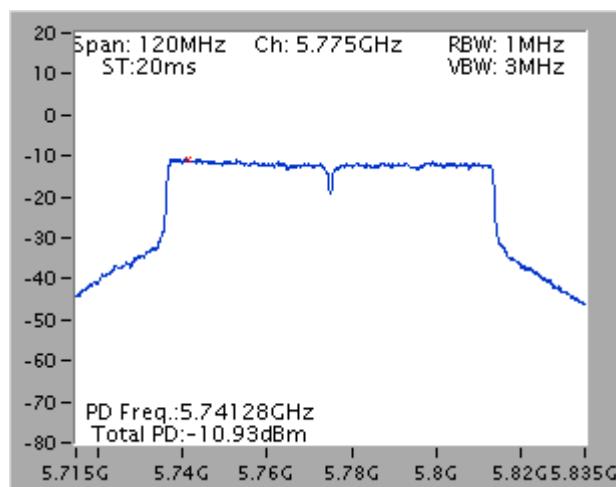
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5210 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.25 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 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) 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)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

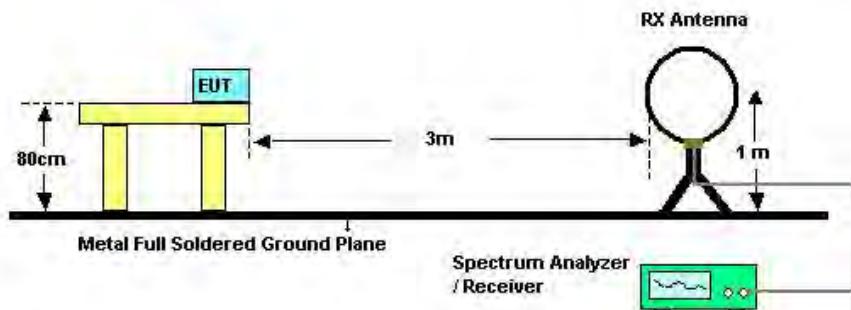
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.6.3. Test Procedures

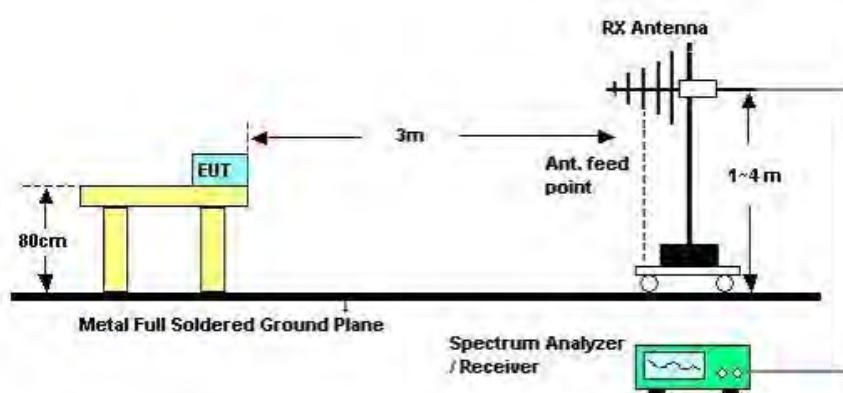
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting 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

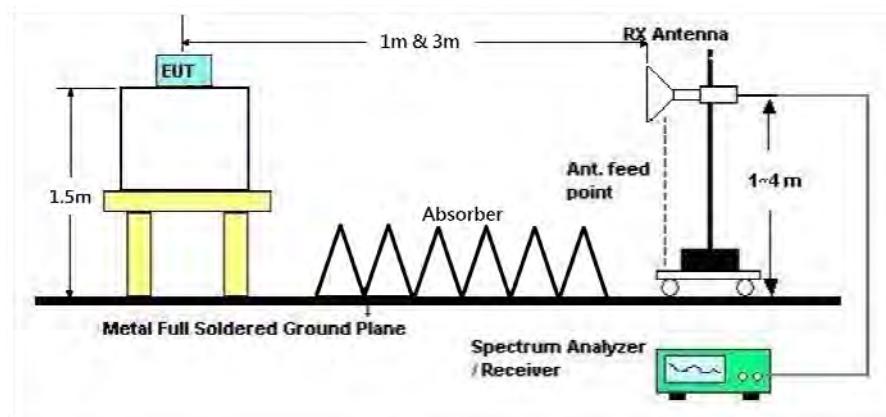
For Radiated Emissions: 9kHz ~ 30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: 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)

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	Normal Link / Mode 3
Test Date	Nov. 19, 2015		

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.

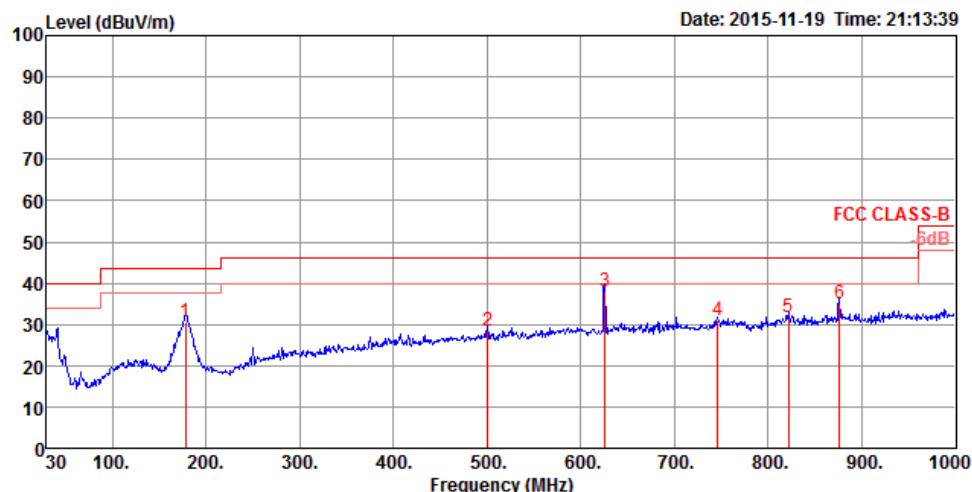
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

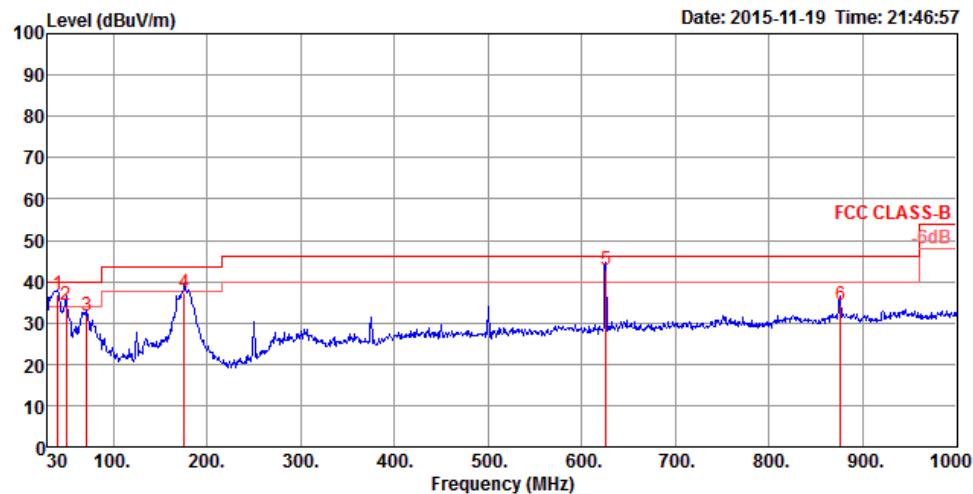
4.6.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	Normal Link / Mode 3

Horizontal



Freq	Level	Limit		Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m	dB	cm	deg	
1	178.41	30.68	43.50	-12.82	51.98	1.15	9.89	32.34	150	278	QP	HORIZONTAL
2	500.45	28.56	46.00	-17.44	40.85	1.94	18.12	32.35	150	261	QP	HORIZONTAL
3	625.58	37.99	46.00	-8.01	48.82	2.16	19.41	32.40	100	304	QP	HORIZONTAL
4	745.86	30.82	46.00	-15.18	40.43	2.36	20.34	32.31	150	44	QP	HORIZONTAL
5	821.52	31.82	46.00	-14.18	40.45	2.49	21.02	32.14	100	161	QP	HORIZONTAL
6	875.84	35.12	46.00	-10.88	42.98	2.55	21.45	31.86	100	198	QP	HORIZONTAL

Vertical


Freq	Level	Limit		Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
		Line	dBuV/m									
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB	dB	cm	deg		
1	40.67	36.83	40.00	-3.17	55.00	0.55	13.69	32.41	100	225	QP	VERTICAL
2	49.40	34.37	40.00	-5.63	56.78	0.61	9.39	32.41	100	192	QP	VERTICAL
3	71.71	31.75	40.00	-8.25	56.55	0.73	6.87	32.40	150	208	QP	VERTICAL
4	175.50	37.39	43.50	-6.11	58.57	1.14	10.02	32.34	100	6	QP	VERTICAL
5	625.58	42.66	46.00	-3.34	53.49	2.16	19.41	32.40	125	171	QP	VERTICAL
6	875.84	34.43	46.00	-11.57	42.29	2.55	21.45	31.86	100	66	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).

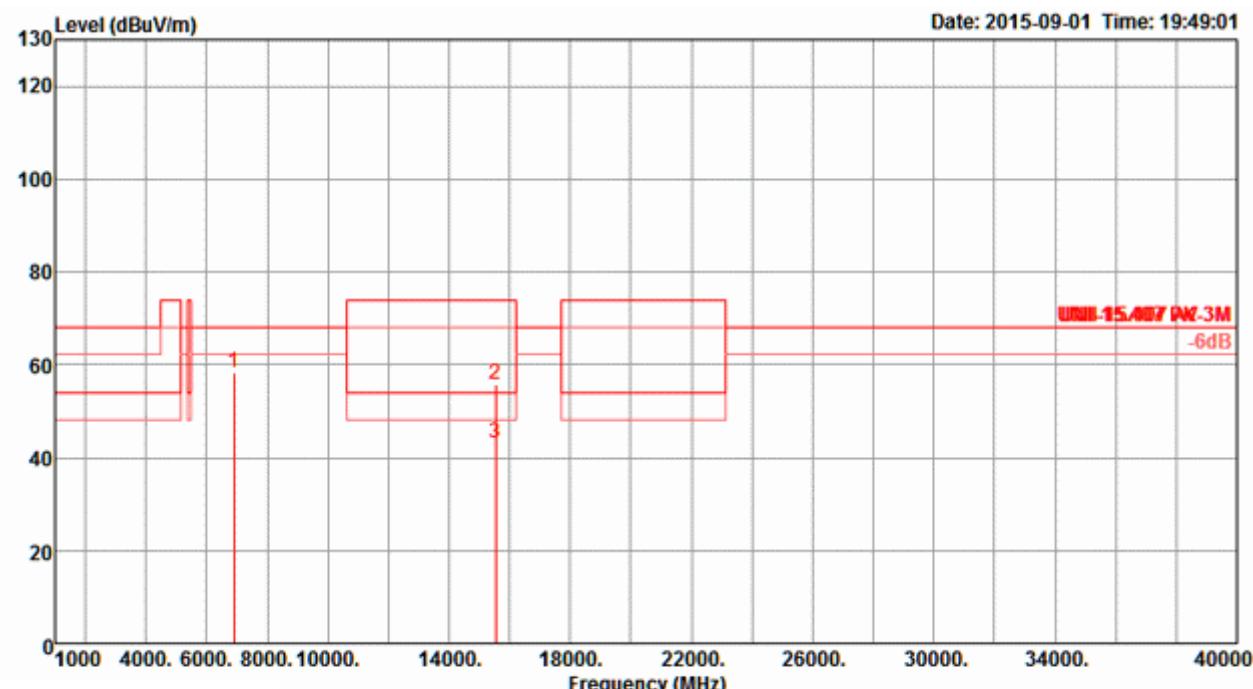
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (1GHz~40GHz)

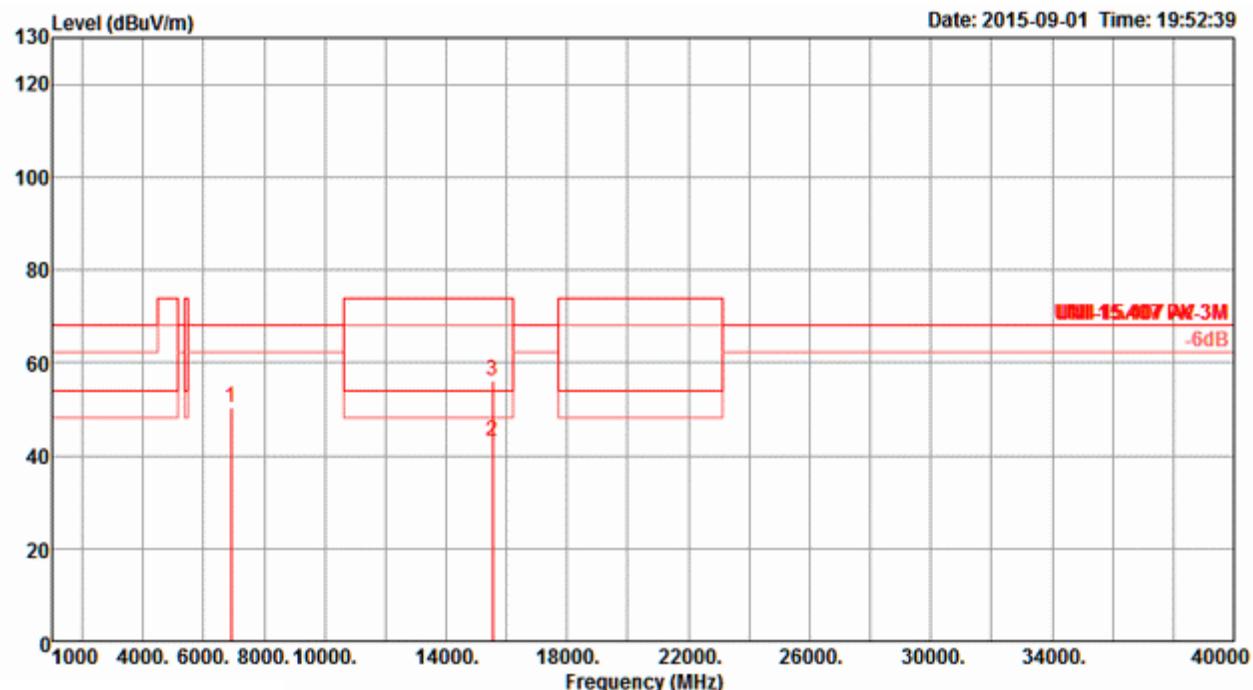
<For Radio 2 Non-beamforming Mode>

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Horizontal

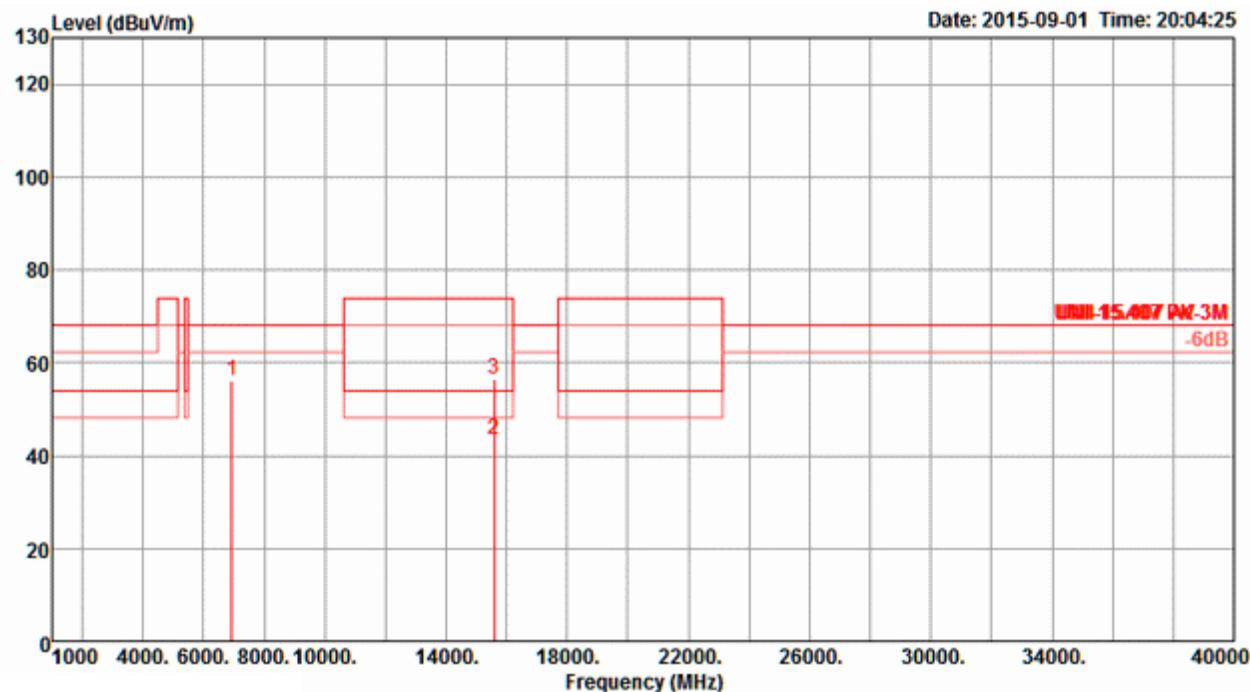


Freq	Level	Limit	Over	Read	Cable			Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Line	Limit	Level					
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm			
1	6906.70	58.26	68.20	-9.94	51.41	4.97	36.57	34.69	302	166	Peak	HORIZONTAL
2	15537.79	55.87	74.00	-18.13	44.77	7.56	38.16	34.62	270	154	Peak	HORIZONTAL
3	15539.33	43.09	54.00	-10.91	31.99	7.56	38.16	34.62	270	154	Average	HORIZONTAL

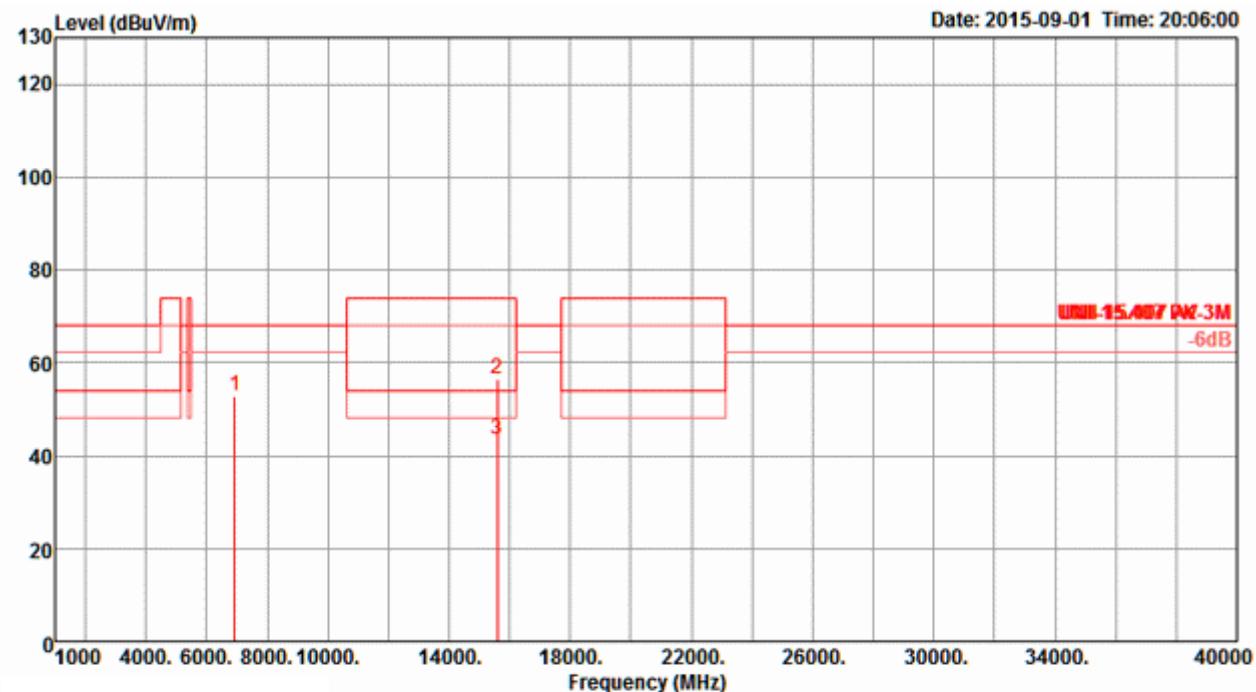
Vertical


Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6906.71	50.19	68.20	-18.01	43.34	4.97	36.57	34.69	21	156	Peak	VERTICAL
2 15538.78	42.96	54.00	-11.04	31.86	7.56	38.16	34.62	40	162	Average	VERTICAL
3 15540.03	56.16	74.00	-17.84	45.06	7.56	38.16	34.62	40	162	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

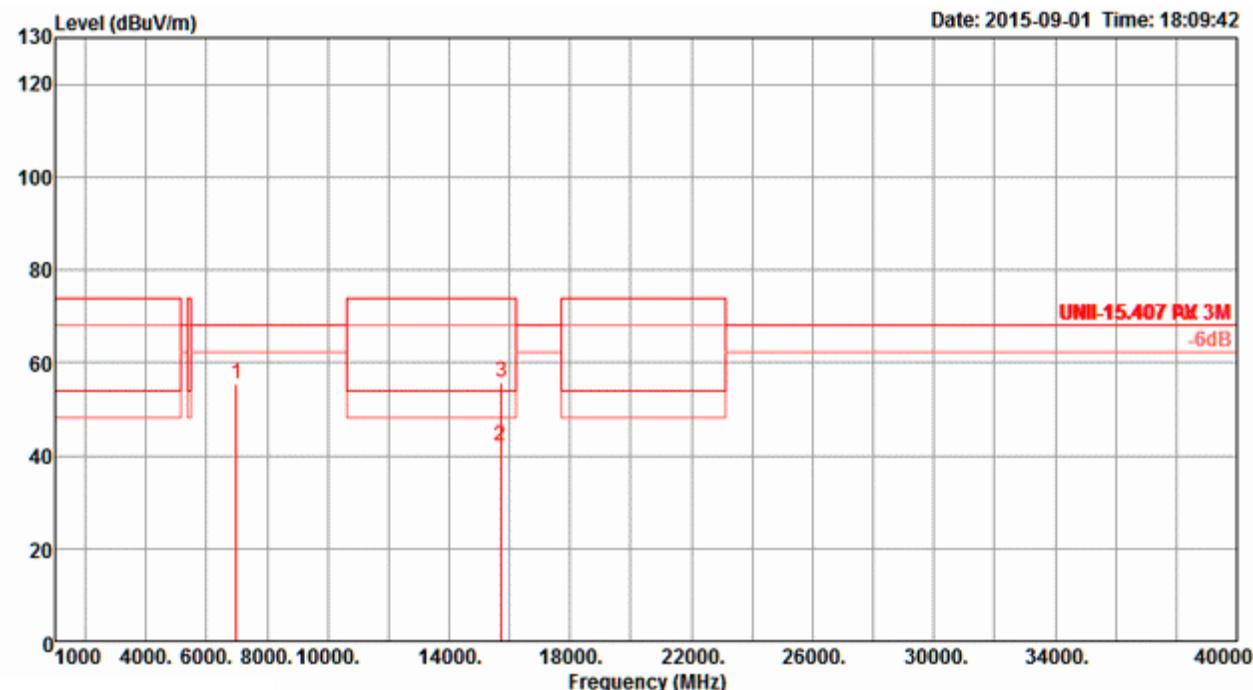
Horizontal


Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 6933.32	56.01	68.20	-12.19	49.07	4.98	36.65	34.69	301	169	Peak	HORIZONTAL
2 15597.90	43.52	54.00	-10.48	32.32	7.58	38.29	34.67	248	192	Average	HORIZONTAL
3 15602.37	56.47	74.00	-17.53	45.29	7.58	38.29	34.69	248	192	Peak	HORIZONTAL

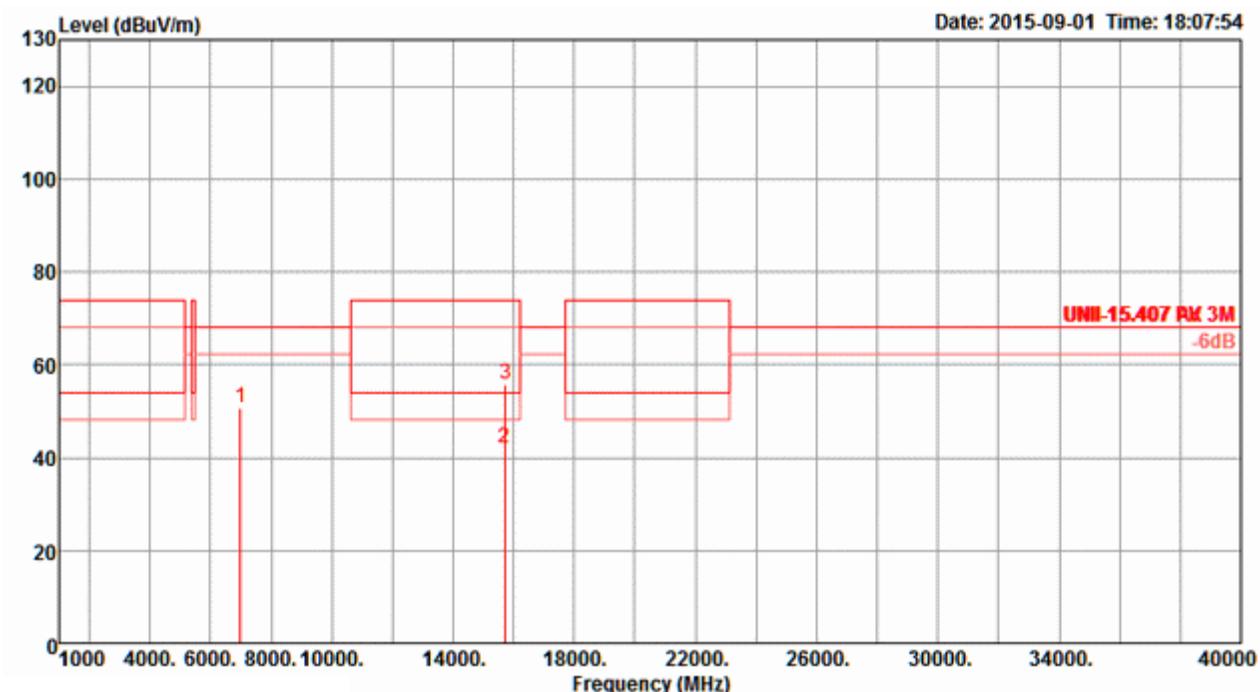
Vertical


Freq	Level	Limit Line	Over Limit	Read Level	Cable Antenna Preamp			T/Pos	A/Pos	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	6933.18	52.69	68.20	-15.51	45.75	4.98	36.65	34.69	318	165 Peak	VERTICAL
2	15599.11	56.47	74.00	-17.53	45.29	7.58	38.29	34.69	216	187 Peak	VERTICAL
3	15600.13	43.59	54.00	-10.41	32.41	7.58	38.29	34.69	216	187 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8

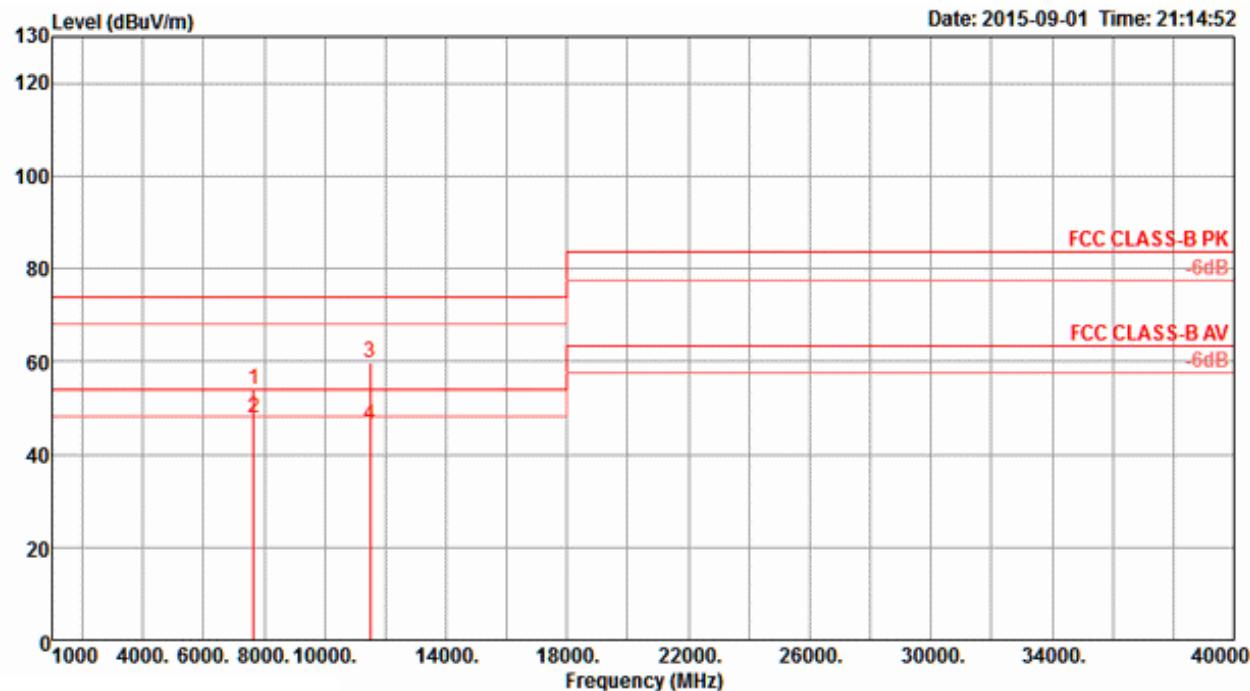
Horizontal


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 6986.78	55.24	68.20	-12.96	48.18	5.01	36.76	34.71	304	176	Peak	HORIZONTAL
2 15712.56	41.89	54.00	-12.11	30.58	7.62	38.47	34.78	53	176	Average	HORIZONTAL
3 15716.36	55.86	74.00	-18.14	44.52	7.62	38.50	34.78	53	176	Peak	HORIZONTAL

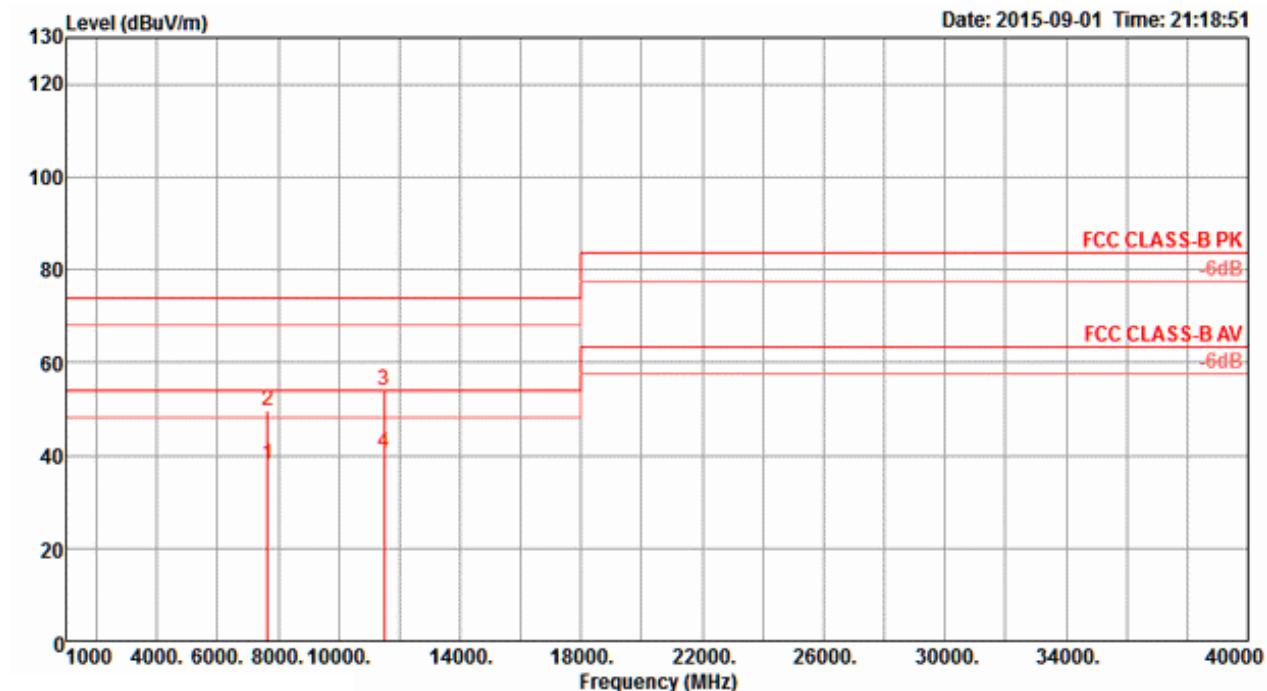
Vertical


Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6986.73	50.72	68.20	-17.48	43.66	5.01	36.76	34.71	23	166	Peak	VERTICAL
2 15712.60	41.99	54.00	-12.01	30.68	7.62	38.47	34.78	104	174	Average	VERTICAL
3 15715.00	55.85	74.00	-18.15	44.51	7.62	38.50	34.78	104	174	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8

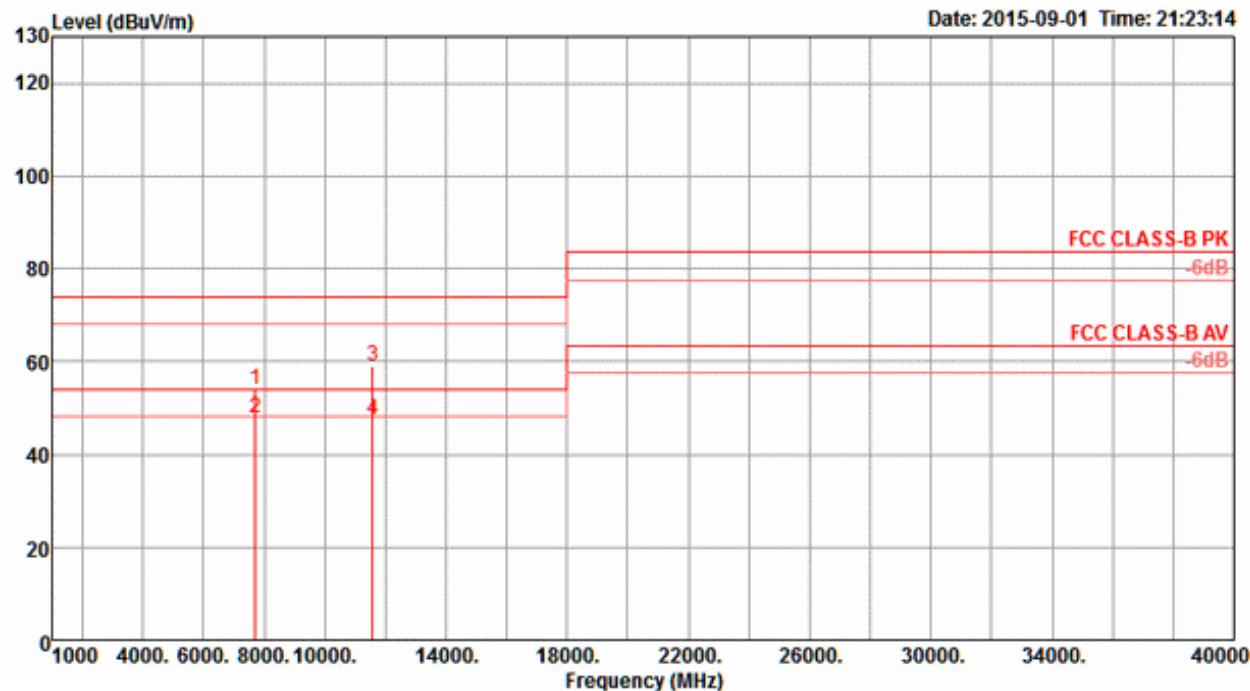
Horizontal


Freq	Level	Limit	Over	Read	Cable			Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Line	Limit	Loss					
1	7659.90	53.86	74.00	-20.14	46.06	5.22	37.43	34.85	286	157	Peak	HORIZONTAL
2	7659.98	47.65	54.00	-6.35	39.85	5.22	37.43	34.85	286	157	Average	HORIZONTAL
3	11491.90	59.79	74.00	-14.21	49.18	6.53	38.70	34.62	331	147	Peak	HORIZONTAL
4	11492.30	46.38	54.00	-7.62	35.77	6.53	38.70	34.62	331	147	Average	HORIZONTAL

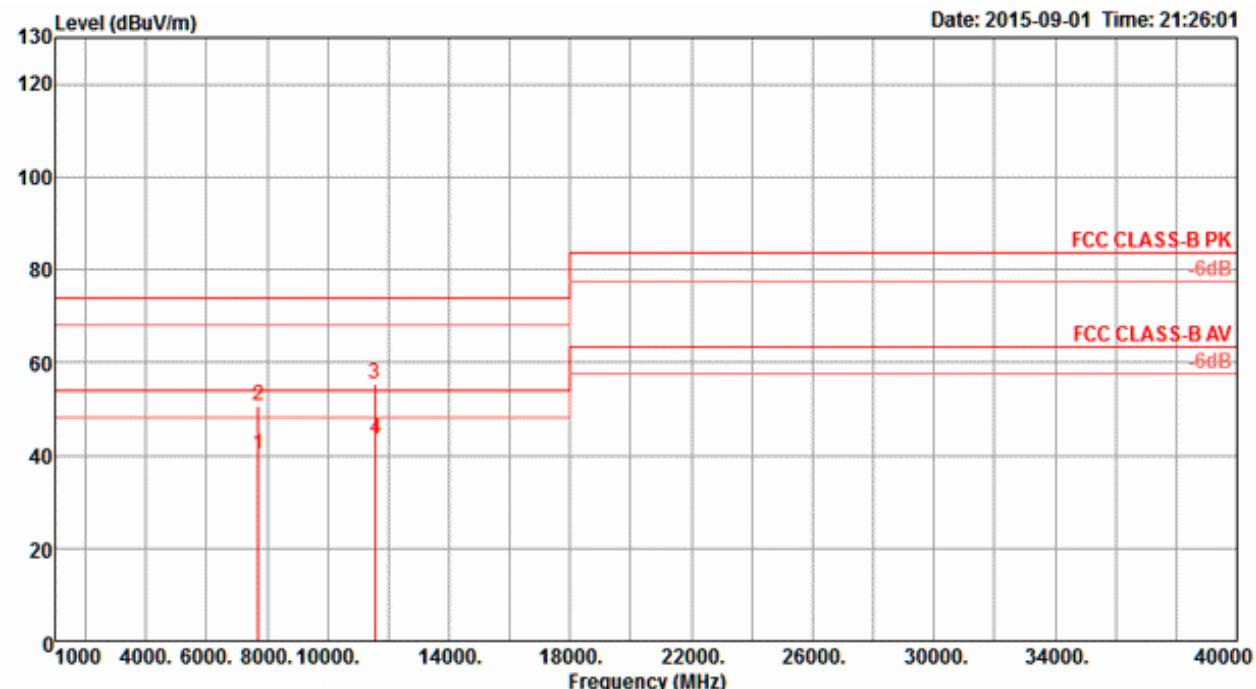
Vertical


	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	7660.00	38.02	54.00	-15.98	30.22	5.22	37.43	34.85	113	160	Average	VERTICAL
2	7662.22	49.66	74.00	-24.34	41.86	5.22	37.43	34.85	113	160	Peak	VERTICAL
3	11486.20	53.79	74.00	-20.21	43.18	6.53	38.70	34.62	85	110	Peak	VERTICAL
4	11494.00	40.57	54.00	-13.43	29.96	6.53	38.70	34.62	85	110	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8

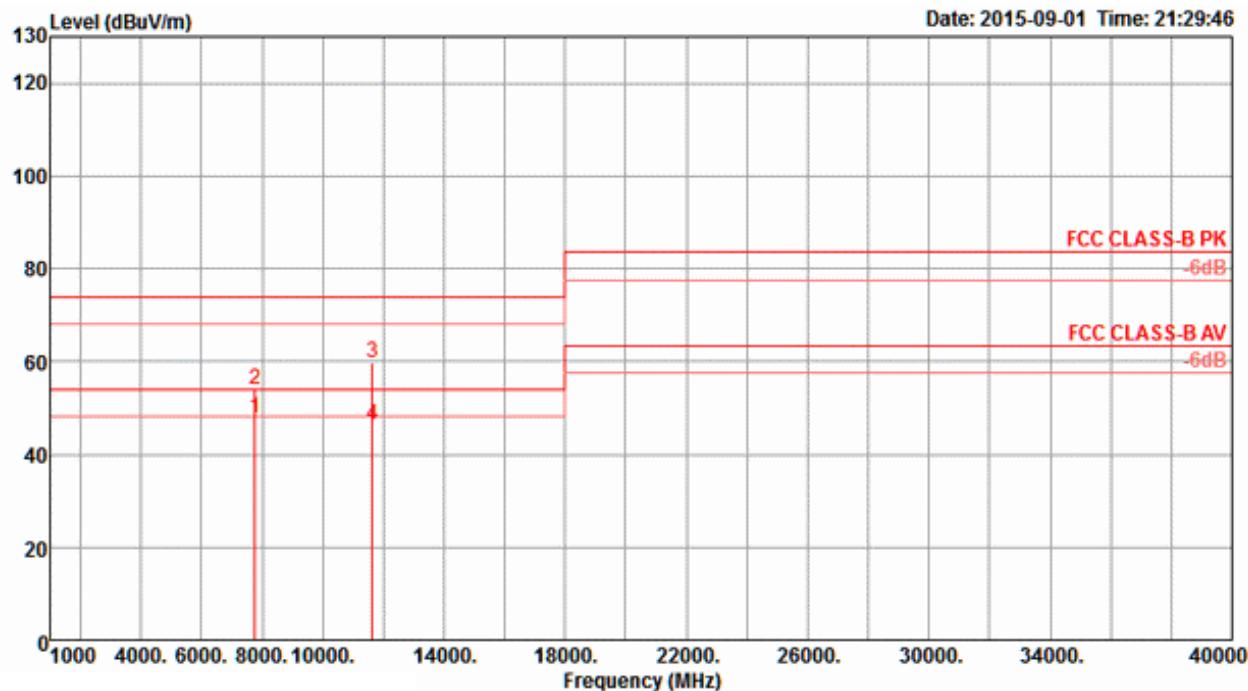
Horizontal


Freq	Level	Limit	Over	Read	Cable			Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Line	Limit	Level	Loss	Factor	deg	cm	
1	7713.28	54.00	74.00	-20.00	46.21	5.25	37.41	34.87	278	154	Peak	HORIZONTAL
2	7713.37	47.94	54.00	-6.06	40.15	5.25	37.41	34.87	278	154	Average	HORIZONTAL
3	11572.20	58.94	74.00	-15.06	48.33	6.55	38.71	34.65	98	150	Peak	HORIZONTAL
4	11572.80	47.30	54.00	-6.70	36.69	6.55	38.71	34.65	98	150	Average	HORIZONTAL

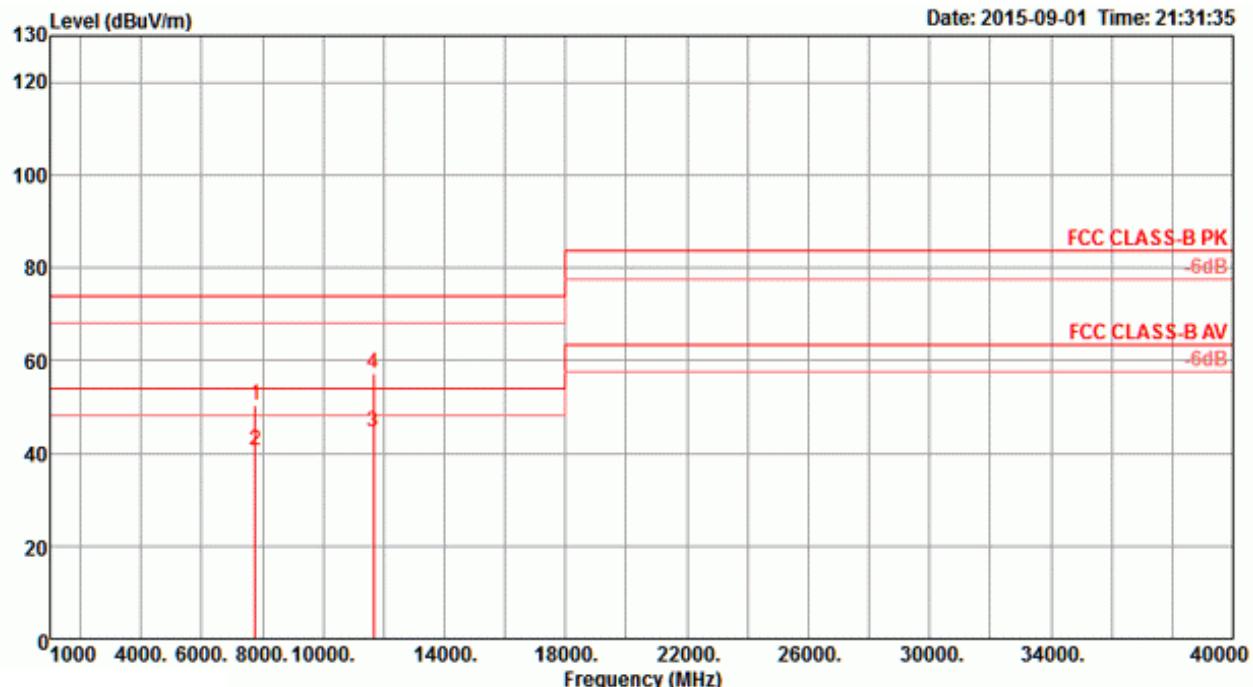
Vertical

Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 7713.34	40.32	54.00	-13.68	32.53	5.25	37.41	34.87	54	162	Average	VERTICAL
2 7713.41	50.69	74.00	-23.31	42.90	5.25	37.41	34.87	54	162	Peak	VERTICAL
3 11560.00	55.43	74.00	-18.57	44.81	6.55	38.71	34.64	100	152	Peak	VERTICAL
4 11568.60	43.62	54.00	-10.38	33.00	6.55	38.71	34.64	100	152	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8

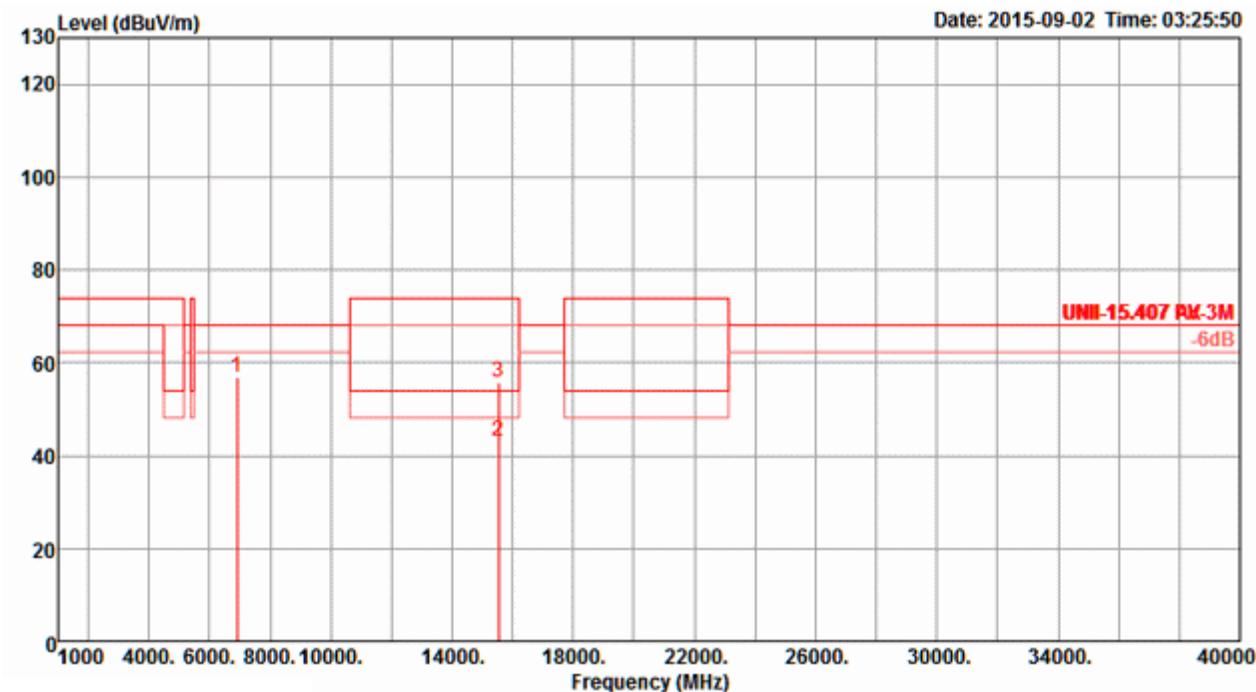
Horizontal


Freq	Level	Limit	Over	Read	Cable			Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Line	Limit	Level						
MHz	dBuV/m	dBuV/m			dB	dB	dB	dB/m	Factor	deg	cm		
1	7766.67	47.80	54.00	-6.20	40.02	5.28	37.39	34.89	281	162	Average	HORIZONTAL	
2	7766.69	53.82	74.00	-20.18	46.04	5.28	37.39	34.89	281	162	Peak	HORIZONTAL	
3	11644.30	59.67	74.00	-14.33	49.05	6.56	38.73	34.67	355	160	Peak	HORIZONTAL	
4	11646.00	46.38	54.00	-7.62	35.76	6.56	38.73	34.67	355	160	Average	HORIZONTAL	

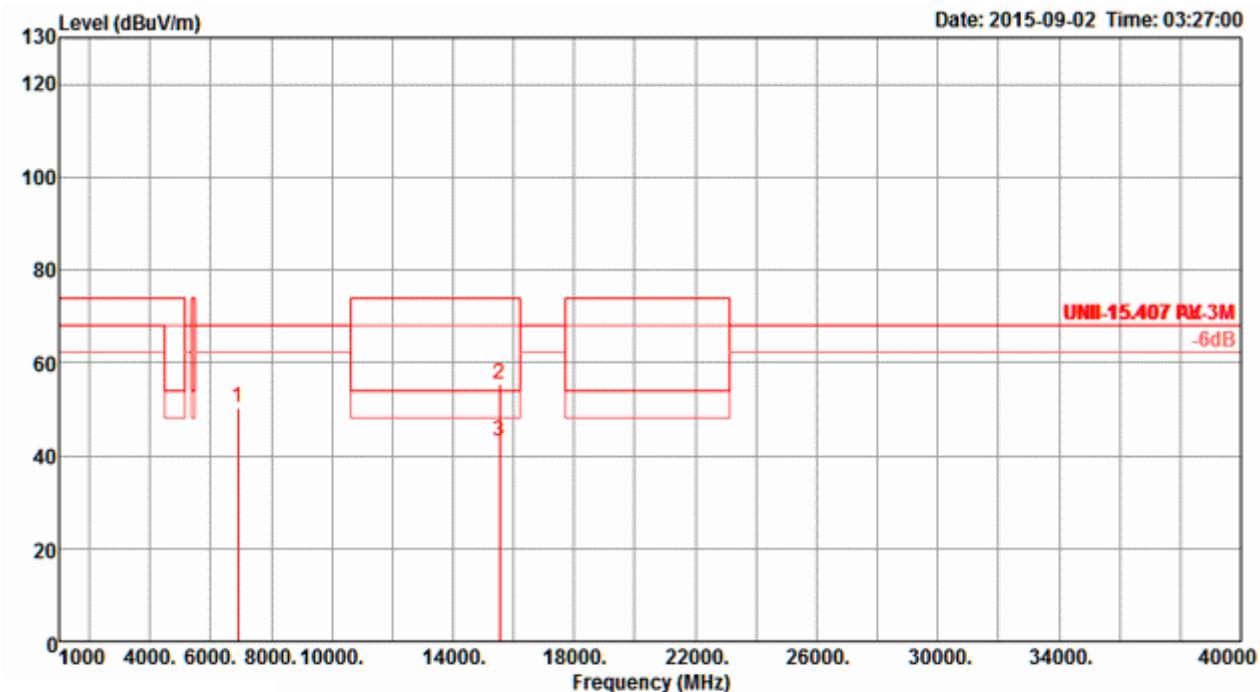
Vertical


	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	7766.43	50.43	74.00	-23.57	42.65	5.28	37.39	34.89	331	149	Peak	VERTICAL
2	7766.60	40.57	54.00	-13.43	32.79	5.28	37.39	34.89	331	149	Average	VERTICAL
3	11657.40	44.50	54.00	-9.50	33.89	6.56	38.73	34.68	356	173	Average	VERTICAL
4	11657.90	57.36	74.00	-16.64	46.75	6.56	38.73	34.68	356	173	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8

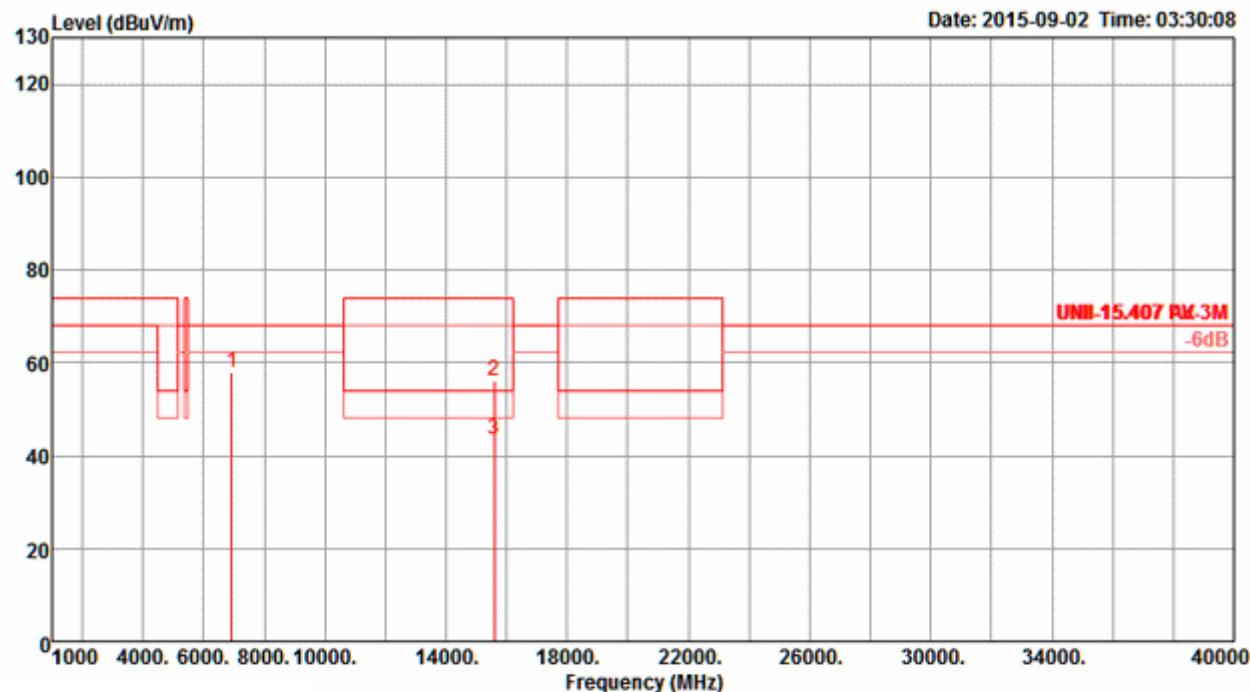
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1	6906.61	56.78	68.20	-11.42	49.93	4.97	36.57	34.69	299	177 Peak	HORIZONTAL
2	15541.84	43.07	54.00	-10.93	31.97	7.56	38.16	34.62	291	182 Average	HORIZONTAL
3	15544.56	55.81	74.00	-18.19	44.68	7.56	38.19	34.62	291	182 Peak	HORIZONTAL

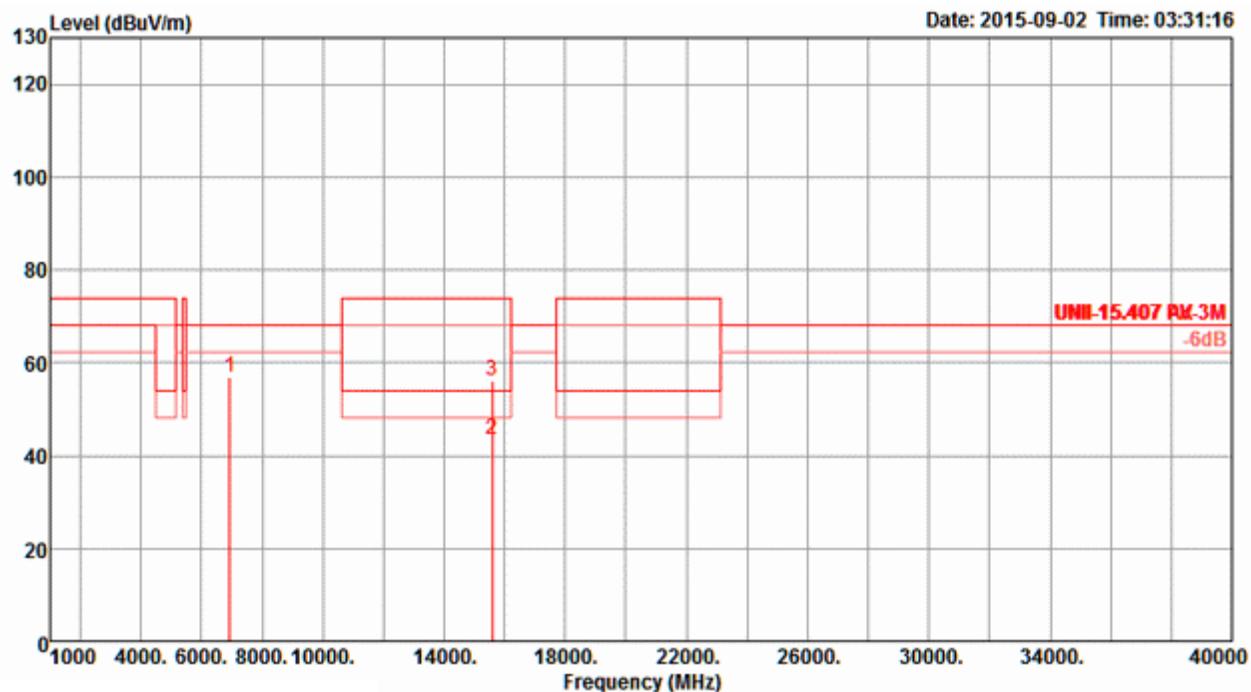
Vertical

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	6907.04	50.26	68.20	-17.94	43.41	4.97	36.57	34.69	298	154 Peak	VERTICAL
2	15532.84	55.47	74.00	-18.53	44.37	7.56	38.16	34.62	283	166 Peak	VERTICAL
3	15534.56	42.97	54.00	-11.03	31.87	7.56	38.16	34.62	283	166 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

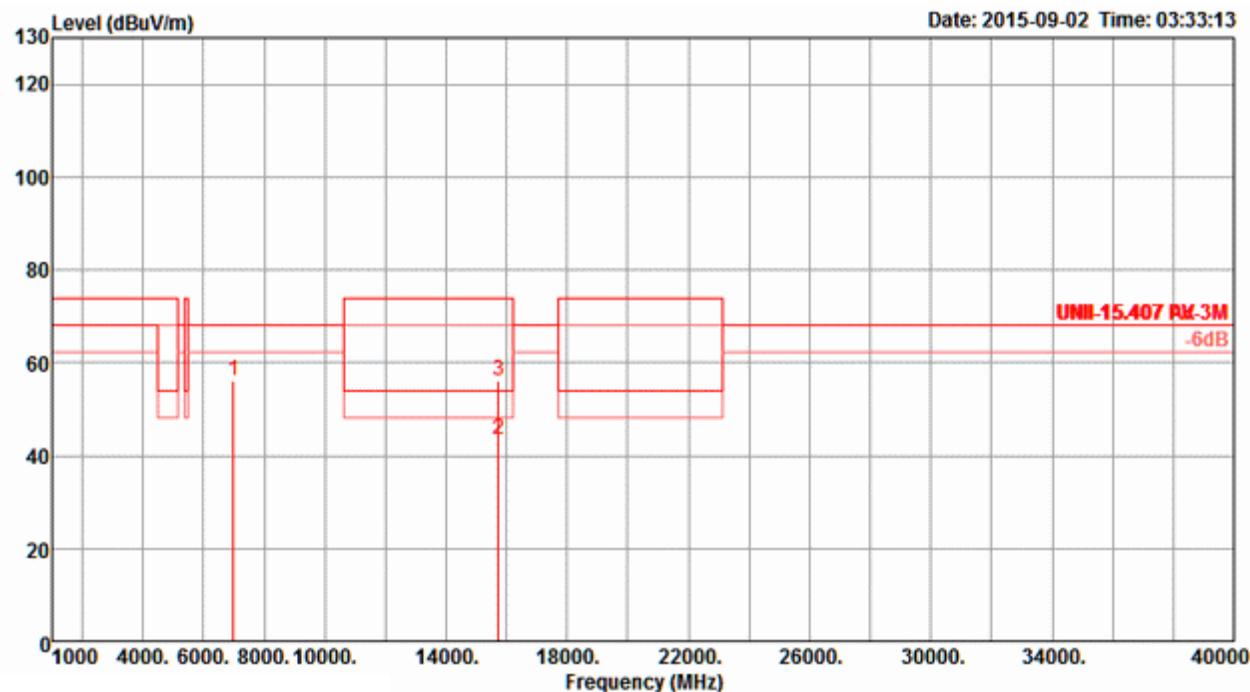
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	6935.27	58.03	68.20	-10.17	51.09	4.98	36.65	34.69	255	152 Peak	HORIZONTAL
2	15600.04	56.24	74.00	-17.76	45.06	7.58	38.29	34.69	224	168 Peak	HORIZONTAL
3	15602.18	43.34	54.00	-10.66	32.16	7.58	38.29	34.69	224	168 Average	HORIZONTAL

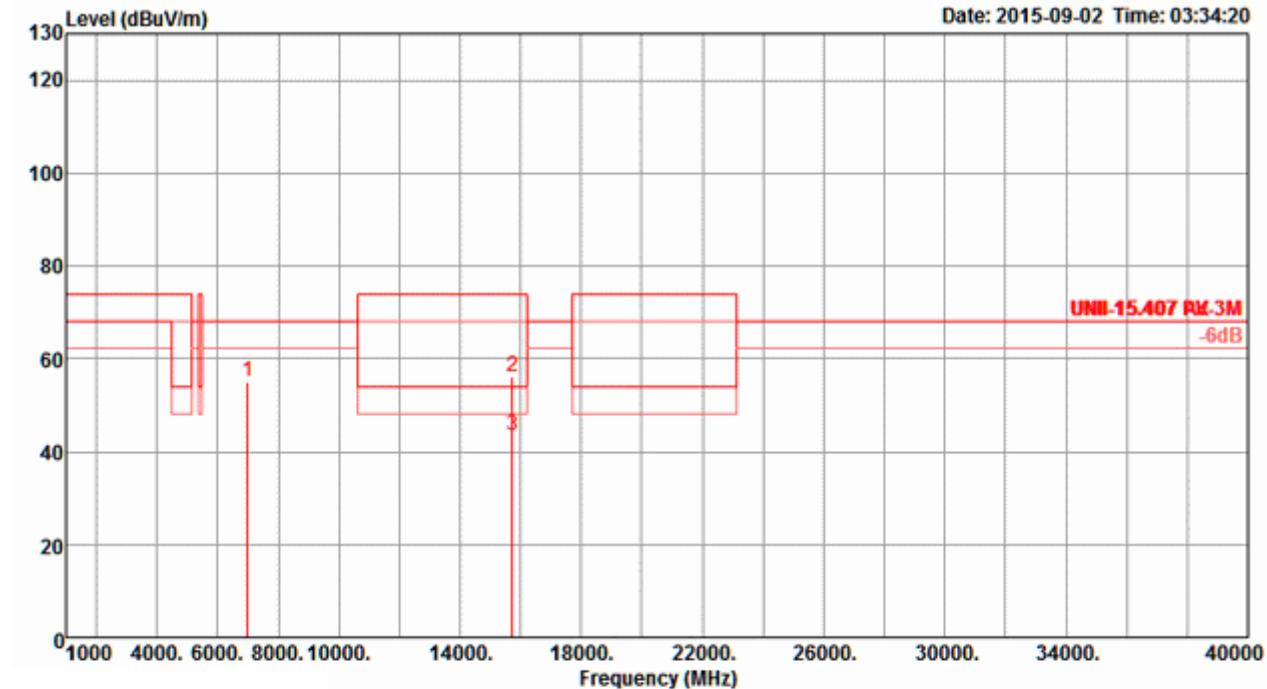
Vertical


Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			T/Pos	A/Pos	Remark	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	6933.55	56.99	68.20	-11.21	50.05	4.98	36.65	34.69	168	154	Peak	VERTICAL
2	15599.72	43.38	54.00	-10.62	32.20	7.58	38.29	34.69	208	160	Average	VERTICAL
3	15601.26	56.03	74.00	-17.97	44.85	7.58	38.29	34.69	208	160	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8

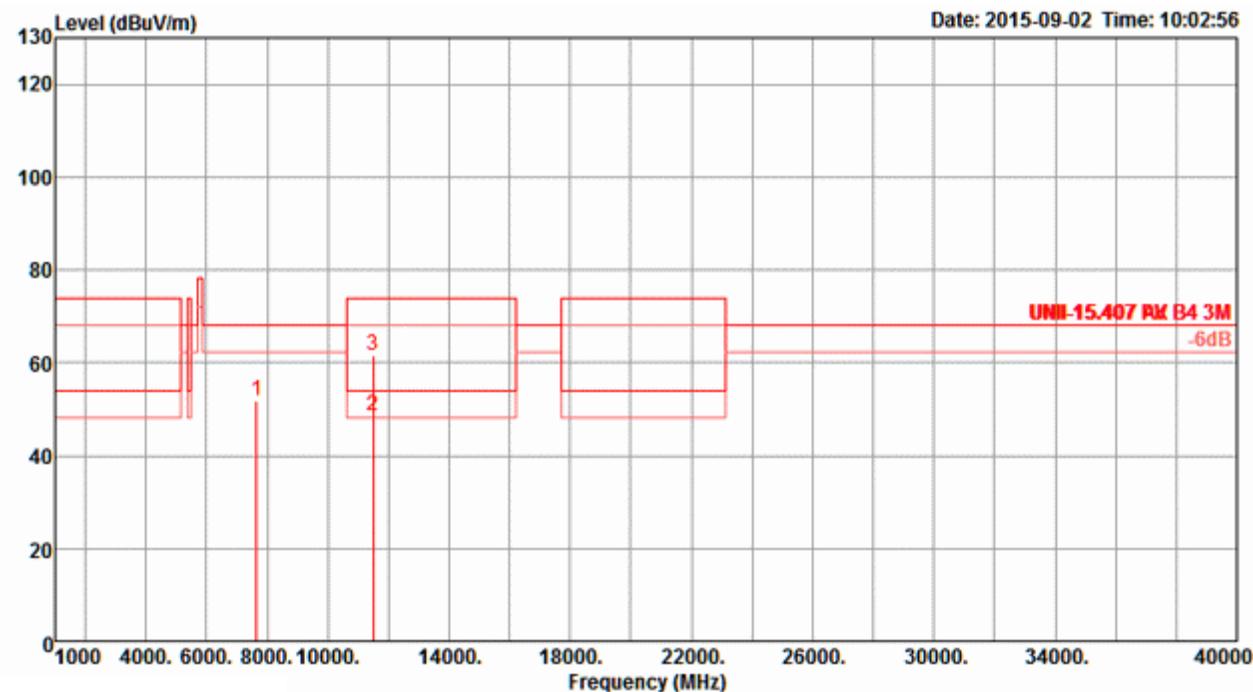
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable Antenna			T/Pos	A/Pos	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
MHz	dBuV/m	dBuV/m		dBuV	dB	dB	dB/m	deg	cm		
1	6986.94	56.03	68.20	-12.17	48.97	5.01	36.76	34.71	153	141 Peak	HORIZONTAL
2	15717.60	43.48	54.00	-10.52	32.14	7.62	38.50	34.78	192	148 Average	HORIZONTAL
3	15717.68	56.27	74.00	-17.73	44.93	7.62	38.50	34.78	192	148 Peak	HORIZONTAL

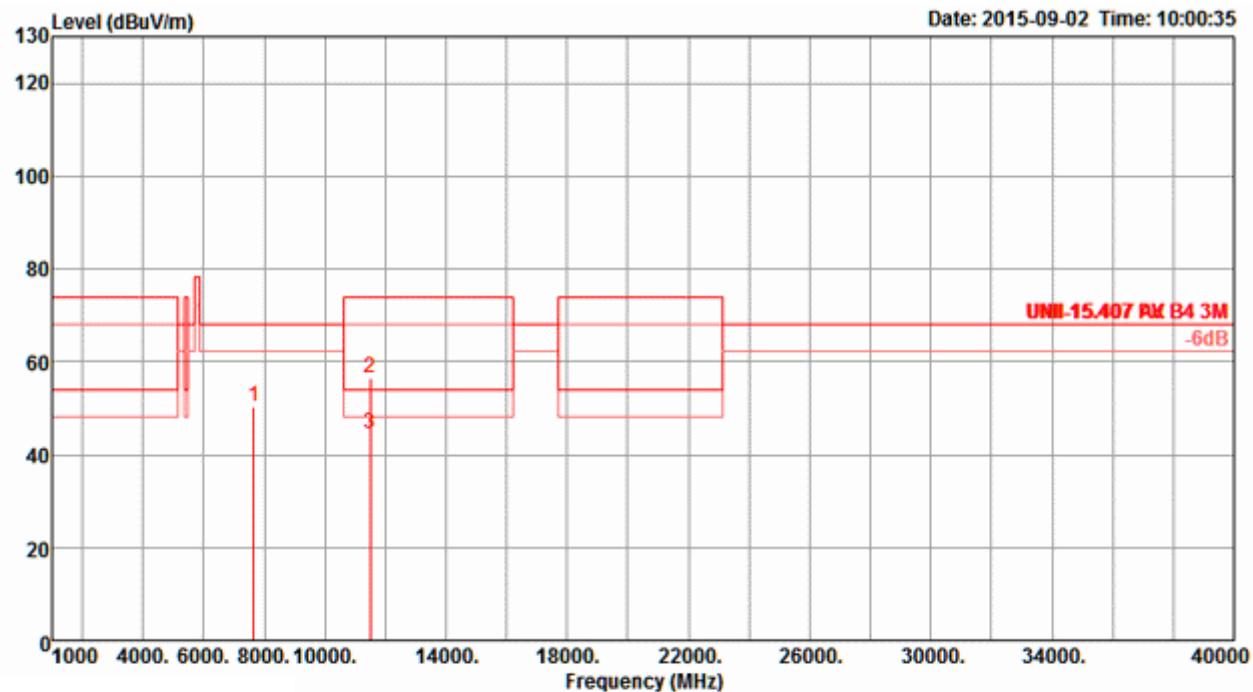
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 6984.74	55.16	68.20	-13.04	48.10	5.01	36.76	34.71	163	159	Peak	VERTICAL
2 15717.66	56.20	74.00	-17.80	44.86	7.62	38.50	34.78	192	138	Peak	VERTICAL
3 15721.91	43.44	54.00	-10.56	32.10	7.62	38.50	34.78	192	138	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8

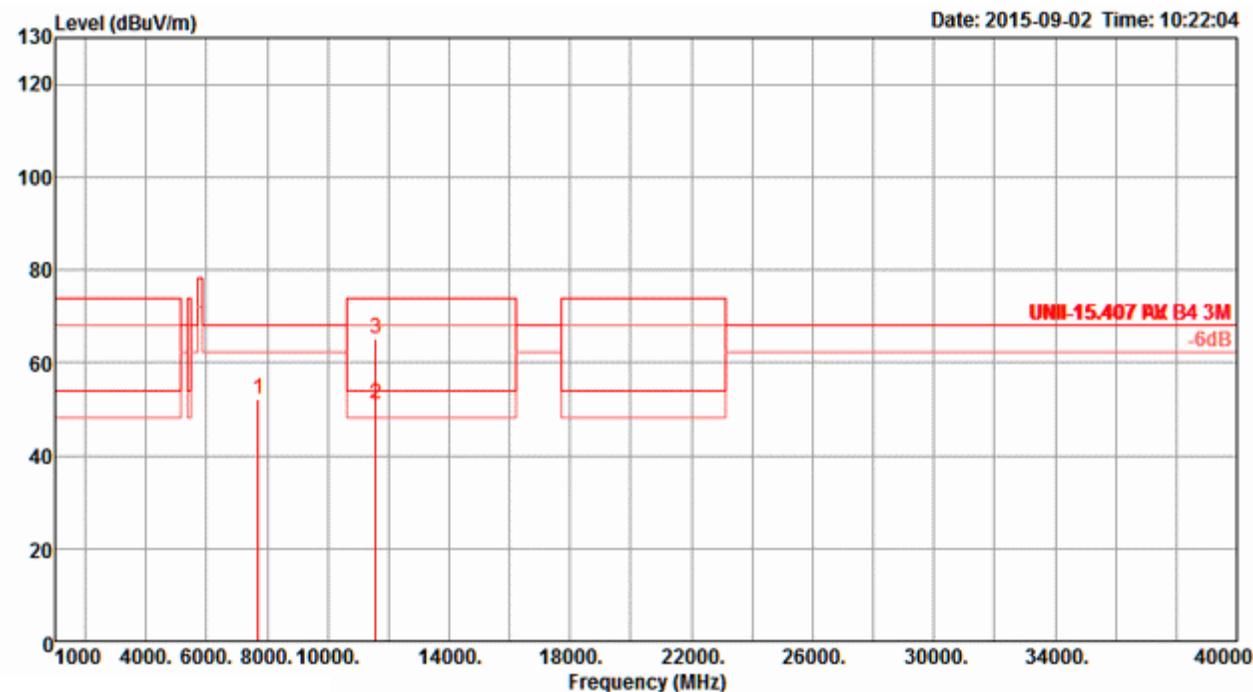
Horizontal


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 7660.04	51.77	68.20	-16.43	43.97	5.22	37.43	34.85	286	170	Peak	HORIZONTAL
2 11492.34	48.55	54.00	-5.45	37.94	6.53	38.70	34.62	335	157	Average	HORIZONTAL
3 11492.88	61.68	74.00	-12.32	51.07	6.53	38.70	34.62	335	157	Peak	HORIZONTAL

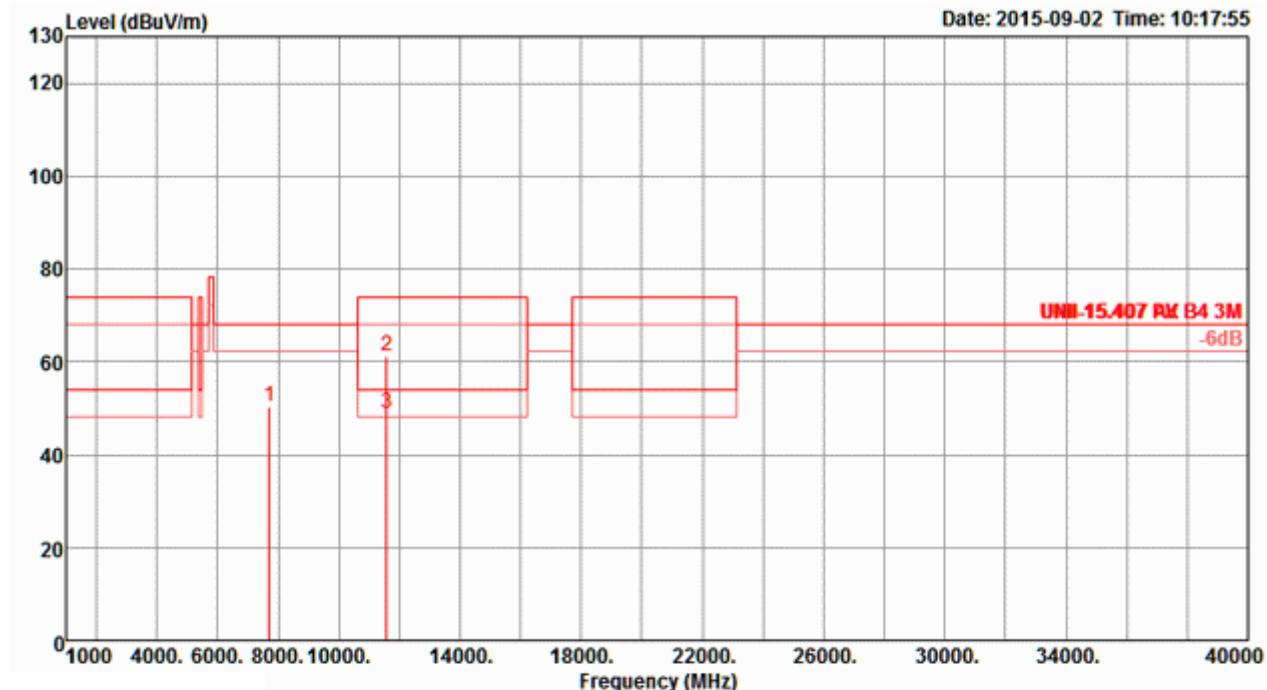
Vertical


	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	7659.96	50.28	68.20	-17.92	42.48	5.22	37.43	34.85	52	310	Peak	VERTICAL
2	11494.72	56.60	74.00	-17.40	45.99	6.53	38.70	34.62	27	142	Peak	VERTICAL
3	11496.00	44.40	54.00	-9.60	33.79	6.53	38.70	34.62	27	142	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8

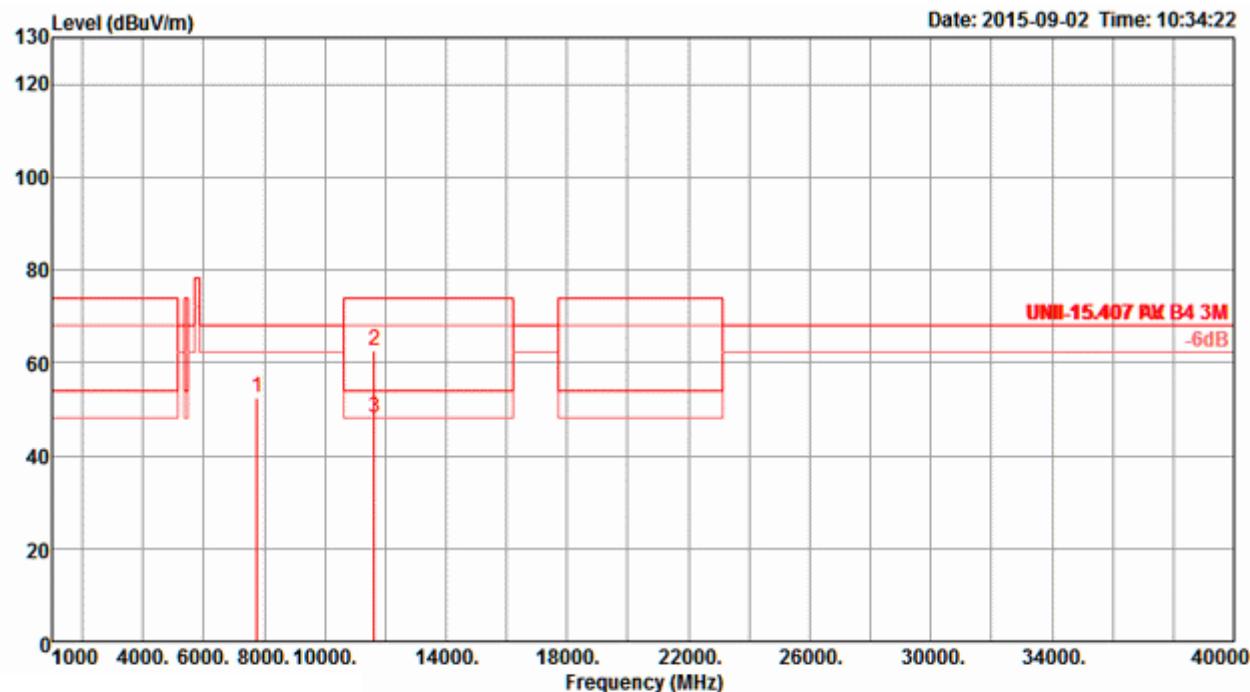
Horizontal


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Loss Factor			Antenna Factor dB	Preamp Factor dB	T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable dB	Antenna dB/m	Preamp dB						
1 7713.44	52.29	68.20	-15.91	44.50	5.25	37.41	34.87	290	154	Peak		HORIZONTAL	
2 11571.60	50.89	54.00	-3.11	40.28	6.55	38.71	34.65	11	222	Average		HORIZONTAL	
3 11572.48	65.08	74.00	-8.92	54.47	6.55	38.71	34.65	11	222	Peak		HORIZONTAL	

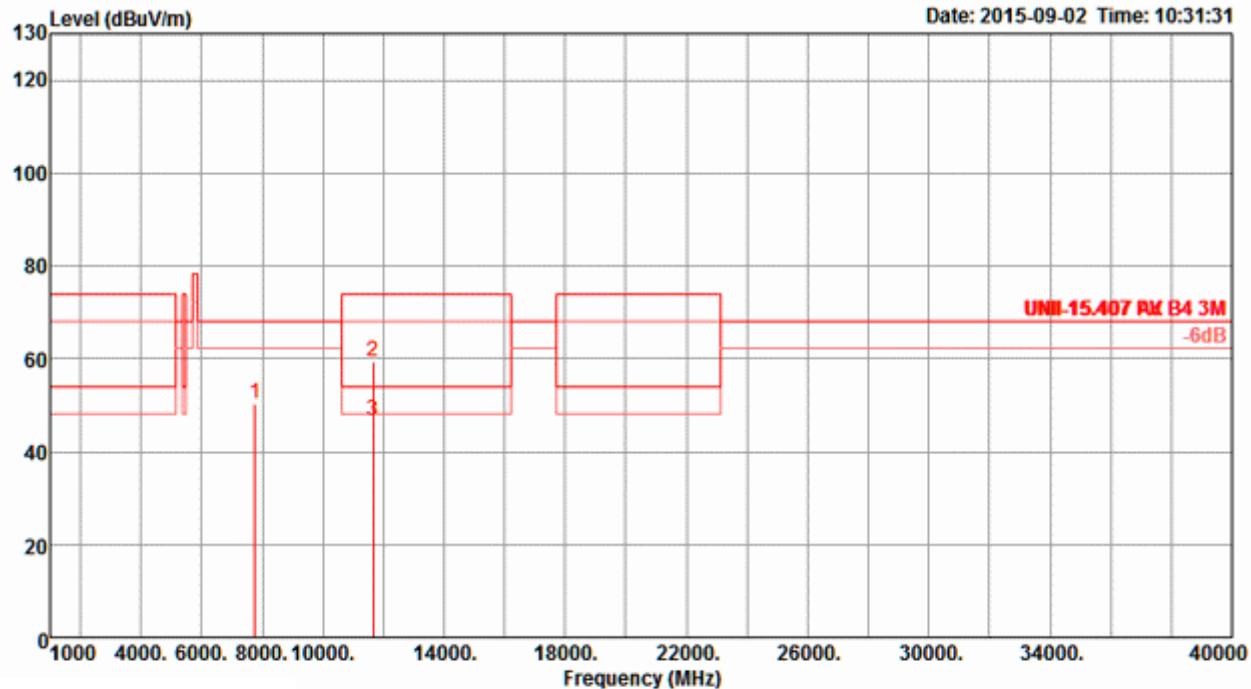
Vertical


	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	7713.32	50.41	68.20	-17.79	42.62	5.25	37.41	34.87	34	144	Peak	VERTICAL
2	11568.68	61.33	74.00	-12.67	50.71	6.55	38.71	34.64	7	215	Peak	VERTICAL
3	11570.00	48.71	54.00	-5.29	38.10	6.55	38.71	34.65	7	215	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8

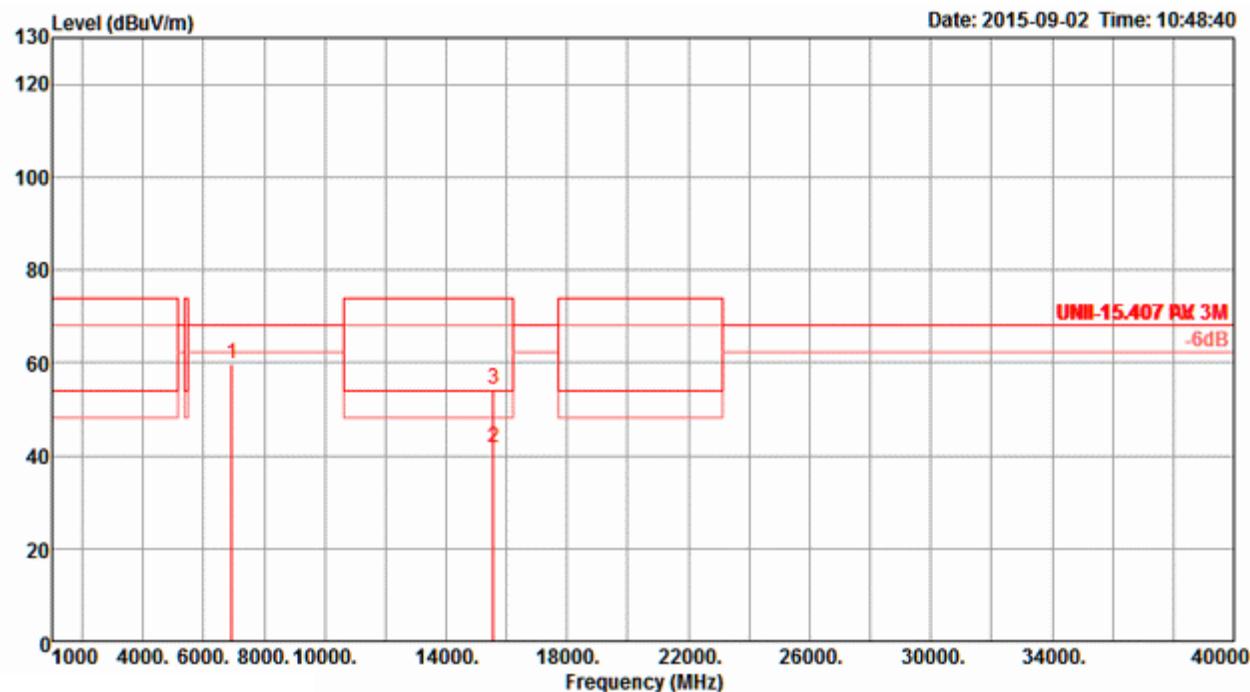
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7766.63	52.65	68.20	-15.55	44.87	5.28	37.39	34.89	286	152 Peak	HORIZONTAL
2	11647.96	62.54	74.00	-11.46	51.93	6.56	38.73	34.68	356	142 Peak	HORIZONTAL
3	11648.80	48.07	54.00	-5.93	37.46	6.56	38.73	34.68	356	142 Average	HORIZONTAL

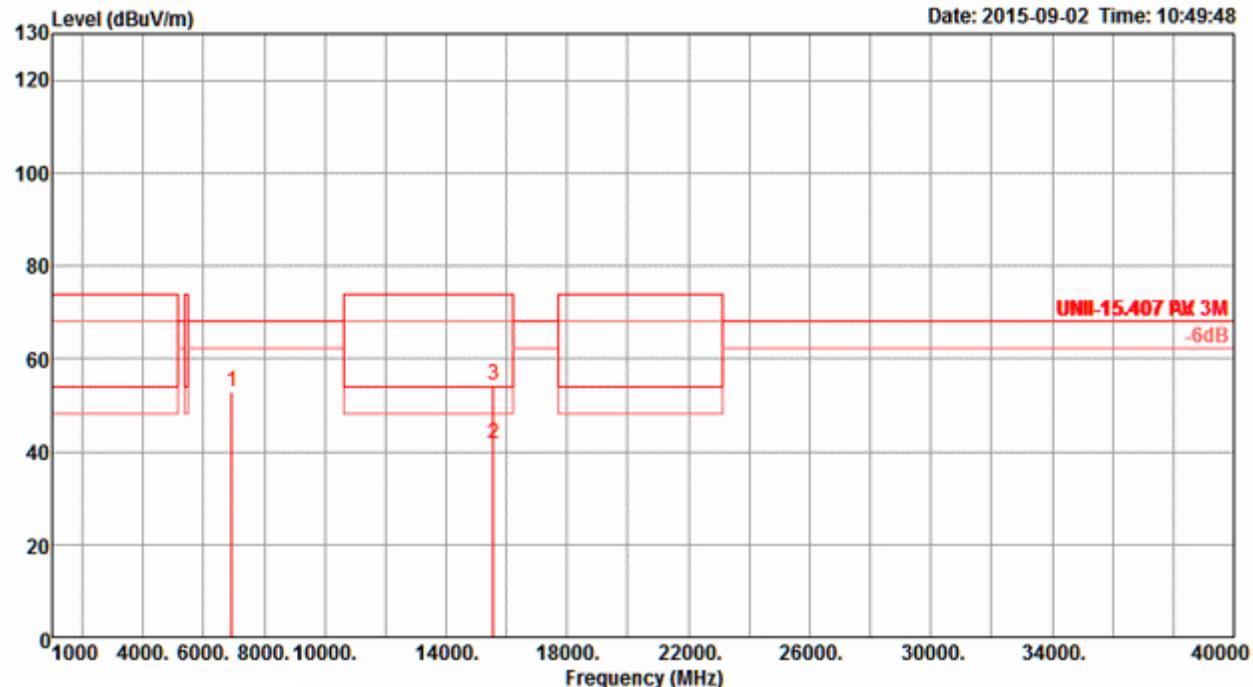
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 7766.45	50.25	68.20	-17.95	42.47	5.28	37.39	34.89	8	234	Peak	VERTICAL
2 11649.52	59.55	74.00	-14.45	48.94	6.56	38.73	34.68	85	144	Peak	VERTICAL
3 11649.76	46.84	54.00	-7.16	36.23	6.56	38.73	34.68	85	144	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 5 + Chain 6 + Chain 7 + Chain 8

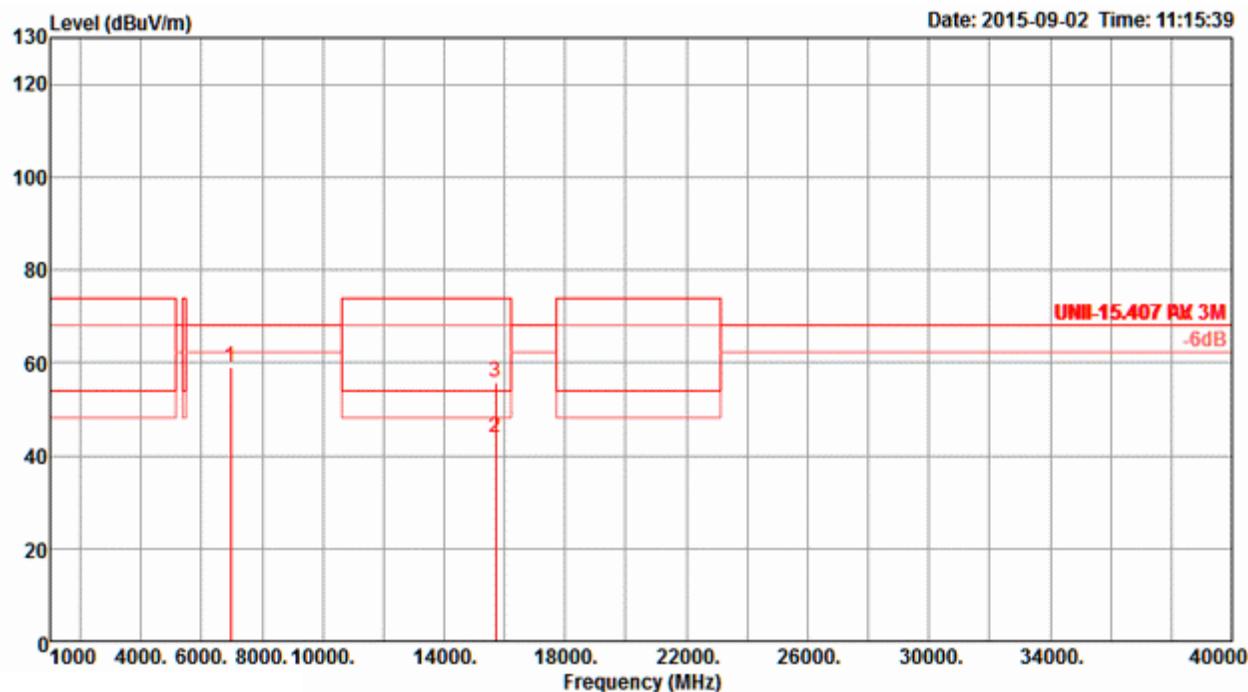
Horizontal


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 6920.02	59.72	68.20	-8.48	52.82	4.98	36.61	34.69	305	184	Peak	HORIZONTAL
2 15566.72	41.59	54.00	-12.41	30.44	7.57	38.22	34.64	353	199	Average	HORIZONTAL
3 15571.96	54.37	74.00	-19.63	43.22	7.57	38.22	34.64	353	199	Peak	HORIZONTAL

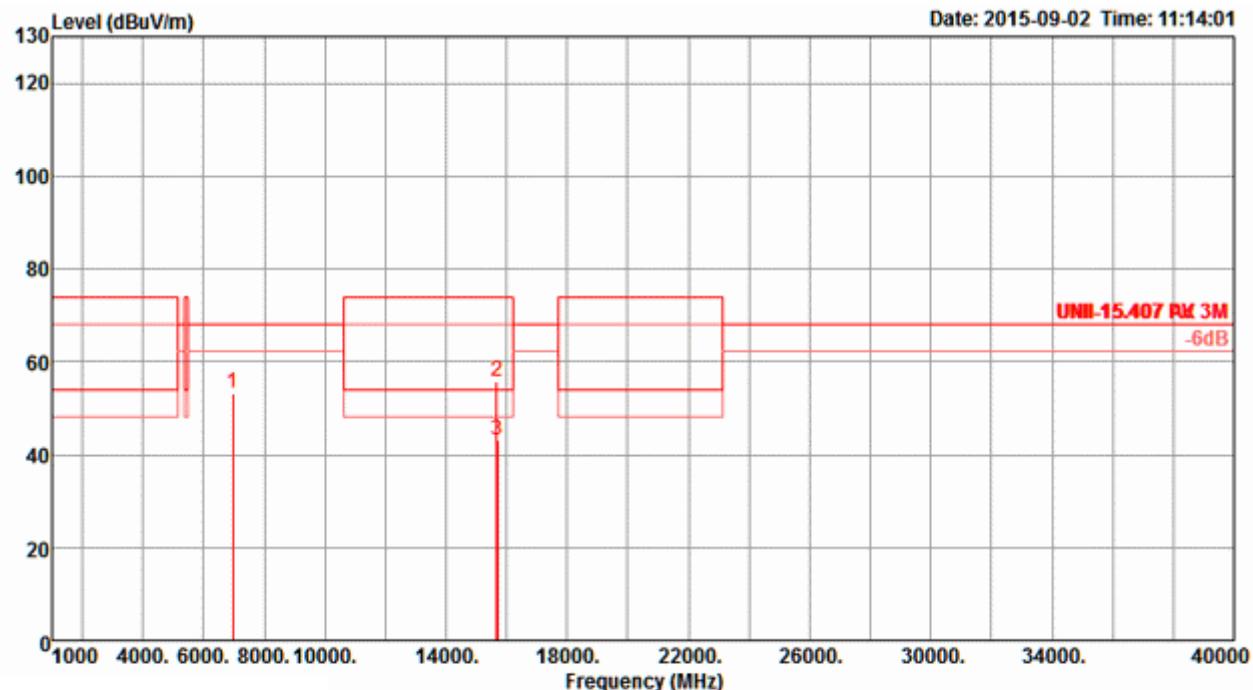
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6919.98	53.02	68.20	-15.18	46.12	4.98	36.61	34.69	25	169	Peak	VERTICAL
2 15560.04	41.61	54.00	-12.39	30.50	7.56	38.19	34.64	4	194	Average	VERTICAL
3 15562.84	54.47	74.00	-19.53	43.32	7.57	38.22	34.64	4	194	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 5 + Chain 6 + Chain 7 + Chain 8

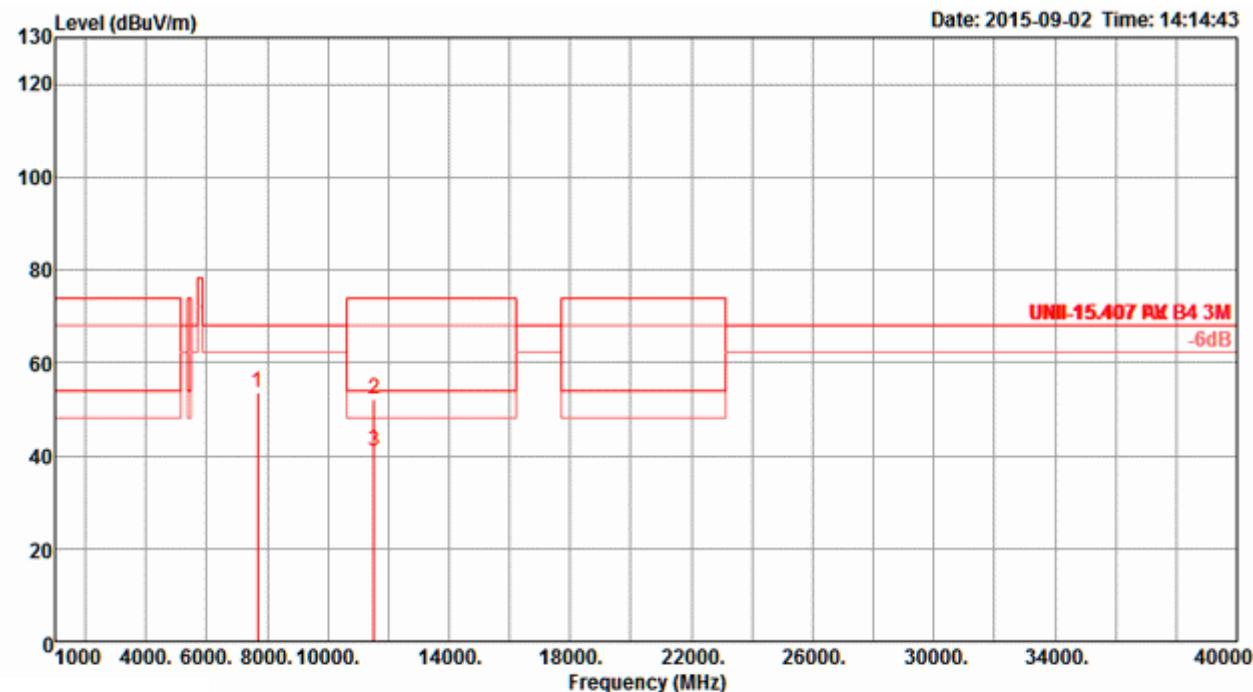
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable Antenna			T/Pos	A/Pos	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1	6973.36	59.09	68.20	-9.11	52.07	5.00	36.72	34.70	308	168 Peak	HORIZONTAL
2	15687.86	43.80	54.00	-10.20	32.50	7.61	38.44	34.75	317	186 Average	HORIZONTAL
3	15691.70	55.85	74.00	-18.15	44.55	7.61	38.44	34.75	317	186 Peak	HORIZONTAL

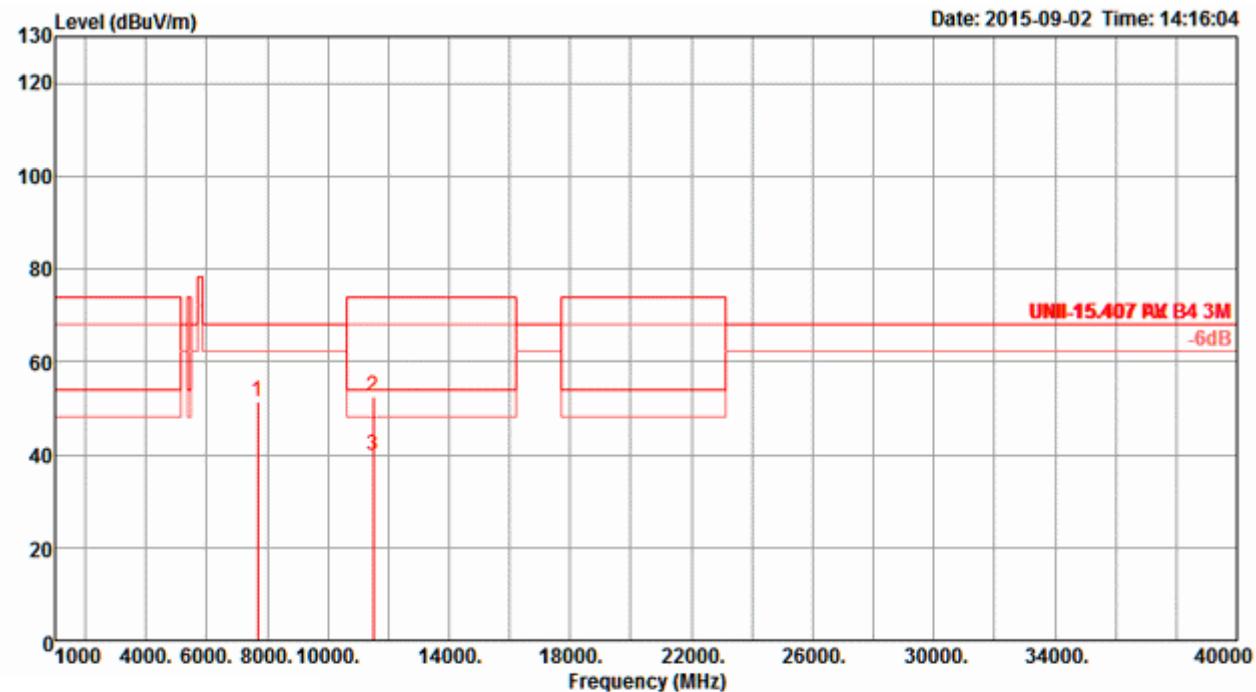
Vertical


Freq MHz	Level dBuV/m	Limit		Over Limit	Read Level dBuV	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	T/Pos deg	A/Pos cm	Remark	Pol/Phase
		Line dB	dB dBuV/m									
1 6973.36	53.16	68.20	-15.04	46.14	5.00	36.72	34.70	26	181	Peak	VERTICAL	
2 15685.22	55.83	74.00	-18.17	44.53	7.61	38.44	34.75	84	192	Peak	VERTICAL	
3 15691.96	43.20	54.00	-10.80	31.90	7.61	38.44	34.75	84	192	Average	VERTICAL	

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 5 + Chain 6 + Chain 7 + Chain 8

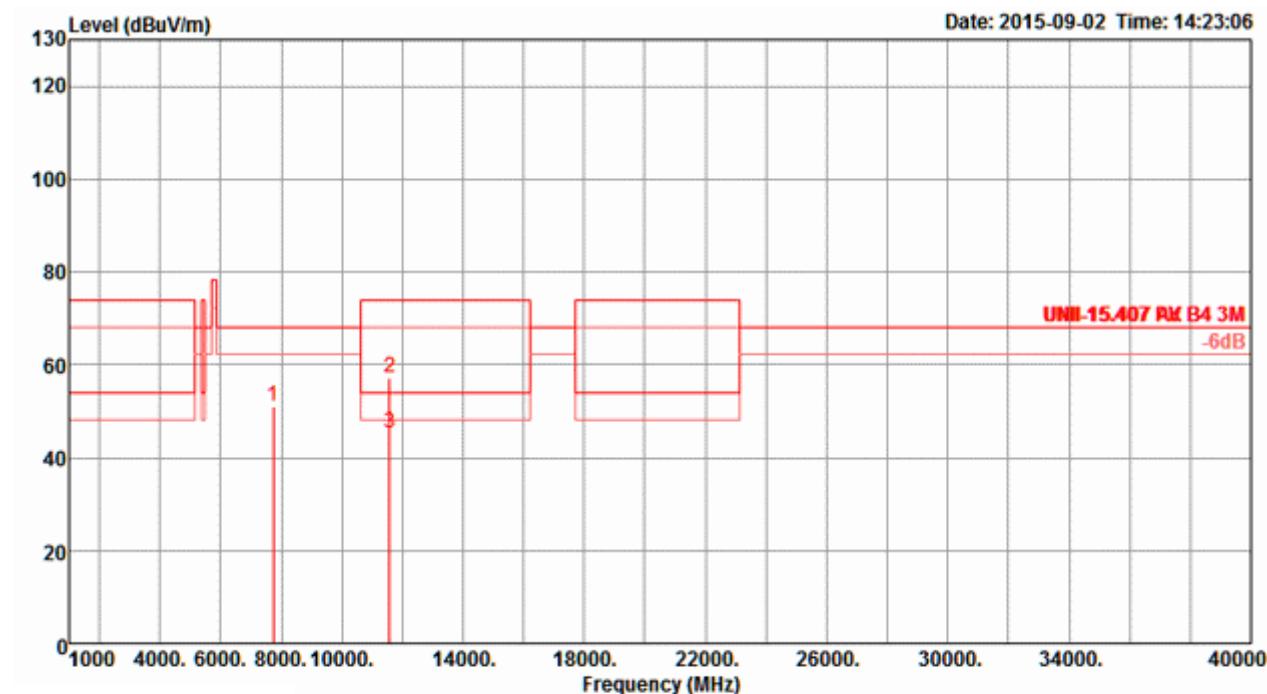
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7673.28	53.64	68.20	-14.56	45.84	5.23	37.43	34.86	287	167 Peak	HORIZONTAL
2	11512.76	52.31	74.00	-21.69	41.69	6.54	38.70	34.62	329	156 Peak	HORIZONTAL
3	11513.00	40.91	54.00	-13.09	30.29	6.54	38.70	34.62	329	156 Average	HORIZONTAL

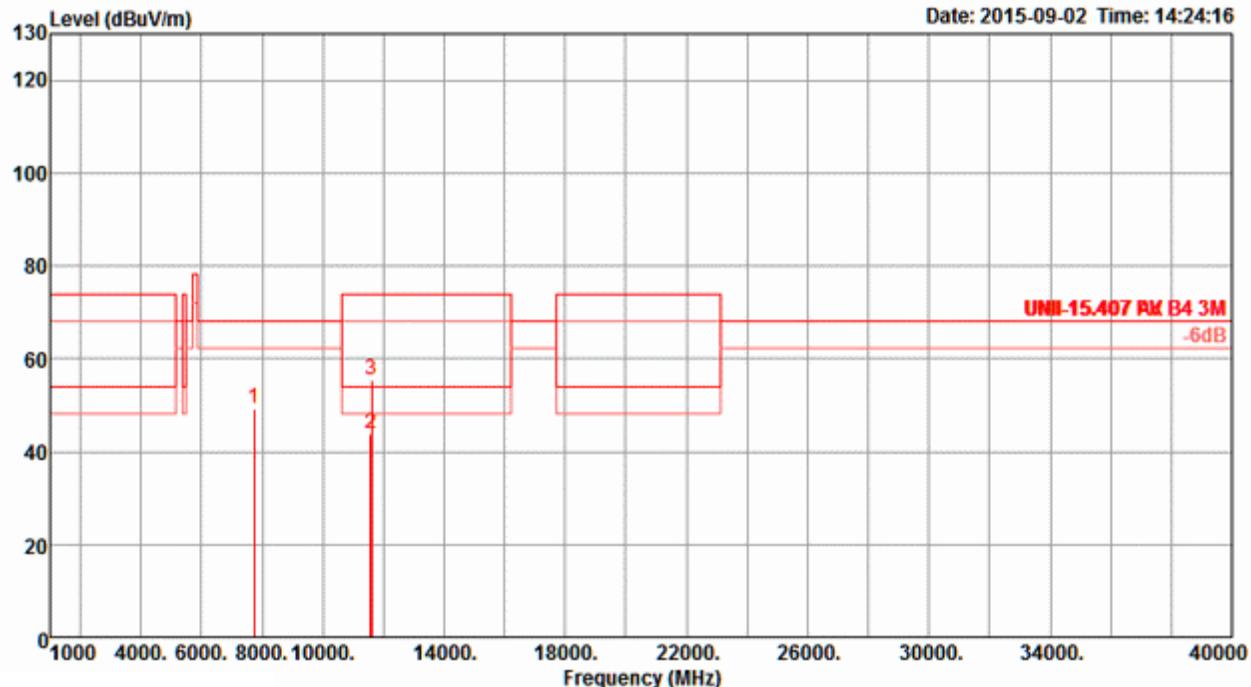
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 7673.25	51.58	68.20	-16.62	43.78	5.23	37.43	34.86	37	156	Peak	VERTICAL
2 11509.94	52.51	74.00	-21.49	41.89	6.54	38.70	34.62	3	156	Peak	VERTICAL
3 11509.94	39.89	54.00	-14.11	29.27	6.54	38.70	34.62	3	156	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 5 + Chain 6 + Chain 7 + Chain 8

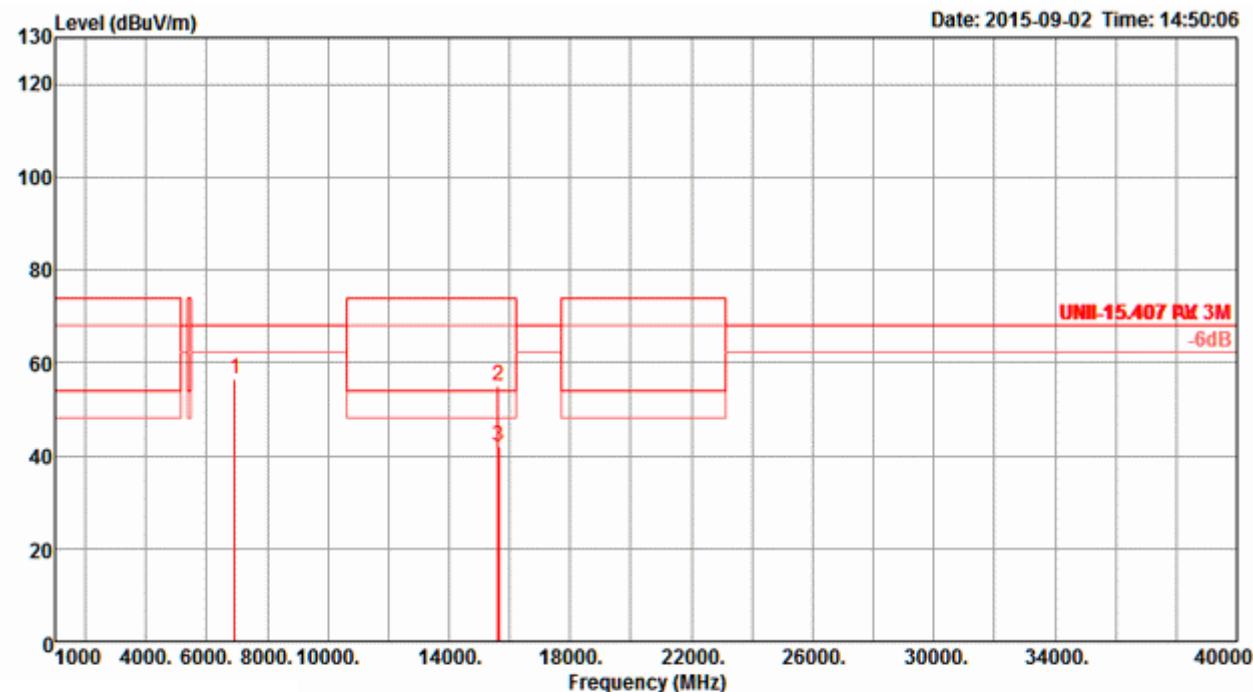
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7726.83	50.91	68.20	-17.29	43.12	5.26	37.41	34.88	284	173 Peak	HORIZONTAL
2	11584.08	57.15	74.00	-16.85	46.53	6.55	38.72	34.65	327	160 Peak	HORIZONTAL
3	11584.88	45.26	54.00	-8.74	34.64	6.55	38.72	34.65	327	160 Average	HORIZONTAL

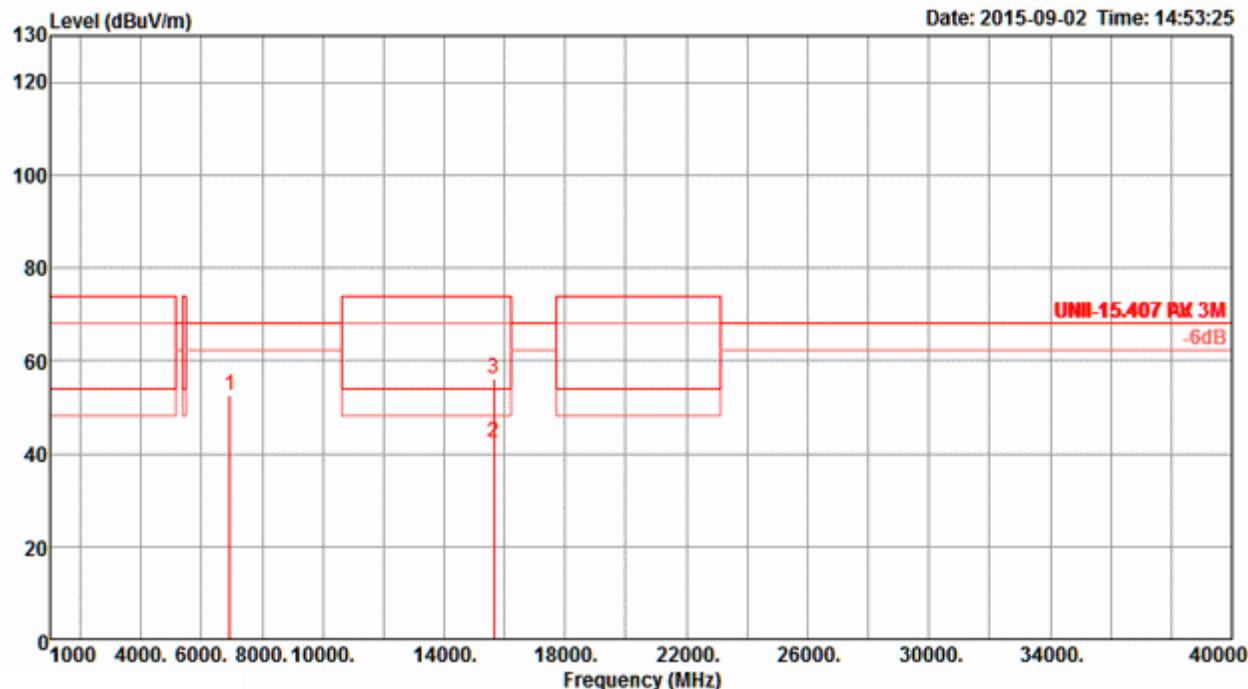
Vertical


Freq MHz	Level dBuV/m	Limit Line	Over Limit	Read Level dB	Cable			Antenna Loss Factor	Preamp Factor	T/Pos deg	A/Pos cm	Remark	Pol/Phase
					dB	dBuV	dB						
1 7726.48	49.38	68.20	-18.82	41.59	5.26	37.41	34.88			82	151	Peak	VERTICAL
2 11582.64	43.79	54.00	-10.21	33.17	6.55	38.72	34.65			350	155	Average	VERTICAL
3 11601.84	55.45	74.00	-18.55	44.84	6.55	38.72	34.66			350	155	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 5 + Chain 6 + Chain 7 + Chain 8

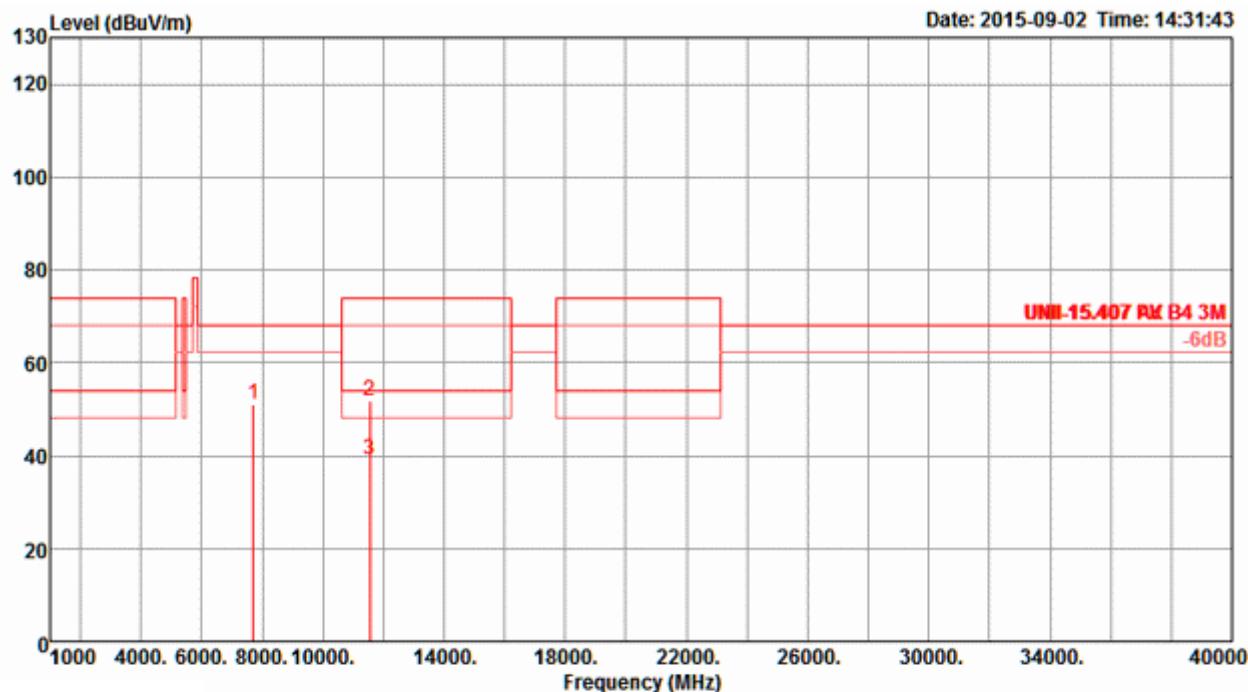
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	6946.60	56.65	68.20	-11.55	49.66	4.99	36.69	34.69	299	188 Peak	HORIZONTAL
2	15628.21	54.90	74.00	-19.10	43.70	7.59	38.32	34.71	182	166 Peak	HORIZONTAL
3	15632.43	42.17	54.00	-11.83	30.94	7.59	38.35	34.71	182	166 Average	HORIZONTAL

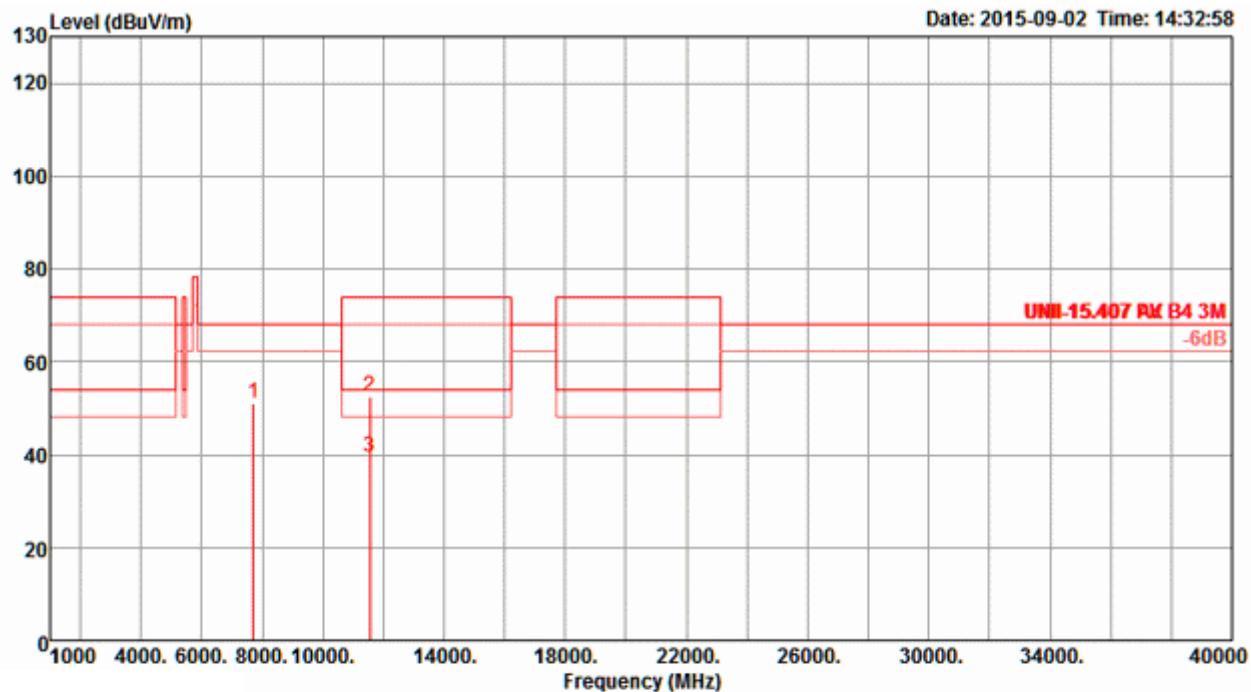
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6946.69	52.36	68.20	-15.84	45.37	4.99	36.69	34.69	324	163	Peak	VERTICAL
2 15632.80	42.33	54.00	-11.67	31.10	7.59	38.35	34.71	81	163	Average	VERTICAL
3 15633.88	56.25	74.00	-17.75	45.02	7.59	38.35	34.71	81	163	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

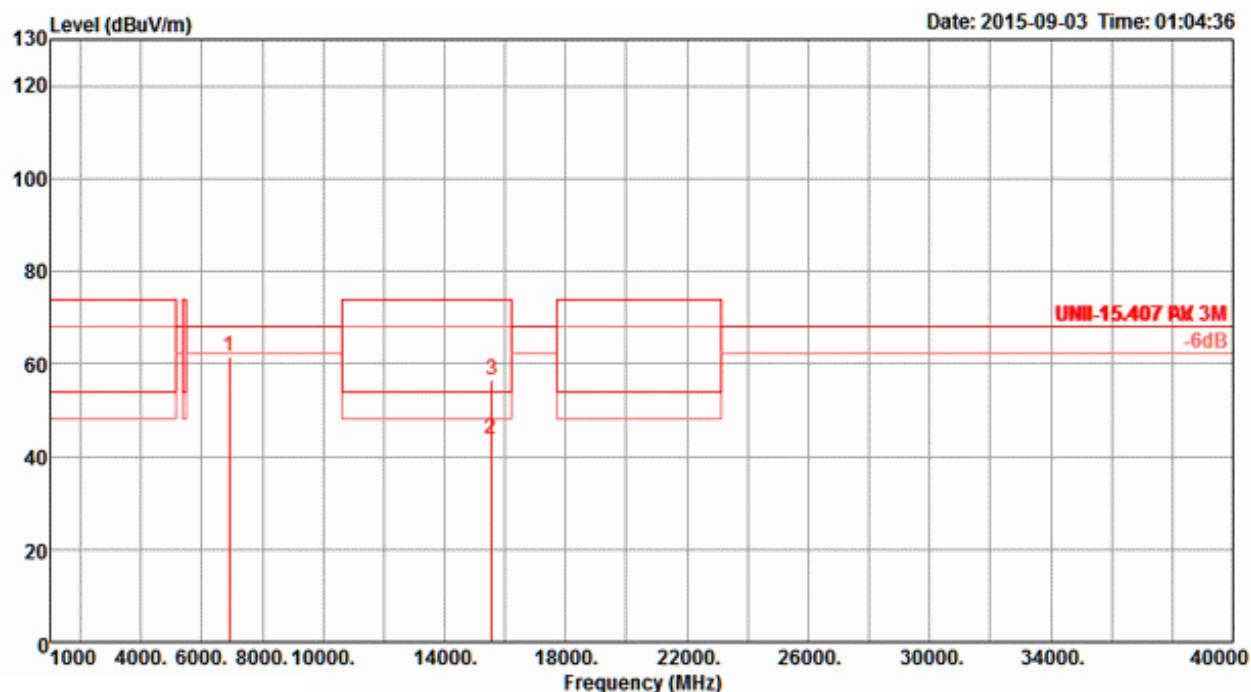
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7700.00	50.92	68.20	-17.28	43.13	5.24	37.42	34.87	287	181 Peak	HORIZONTAL
2	11546.20	51.70	74.00	-22.30	41.09	6.54	38.71	34.64	126	161 Peak	VERTICAL
3	11550.04	39.17	54.00	-14.83	28.55	6.55	38.71	34.64	126	161 Average	VERTICAL

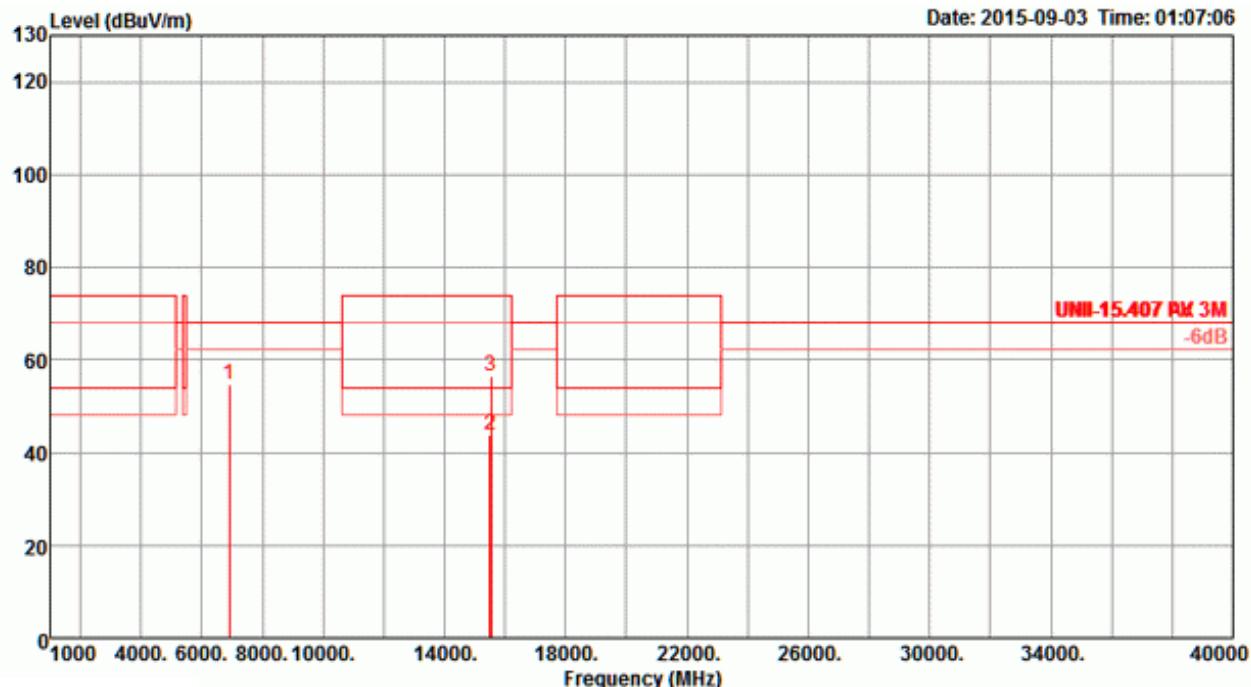
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 7700.25	51.02	68.20	-17.18	43.23	5.24	37.42	34.87	56	180	Peak	VERTICAL
2 11546.20	52.43	74.00	-21.57	41.82	6.54	38.71	34.64	359	162	Peak	VERTICAL
3 11548.56	39.43	54.00	-14.57	28.81	6.55	38.71	34.64	359	162	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8

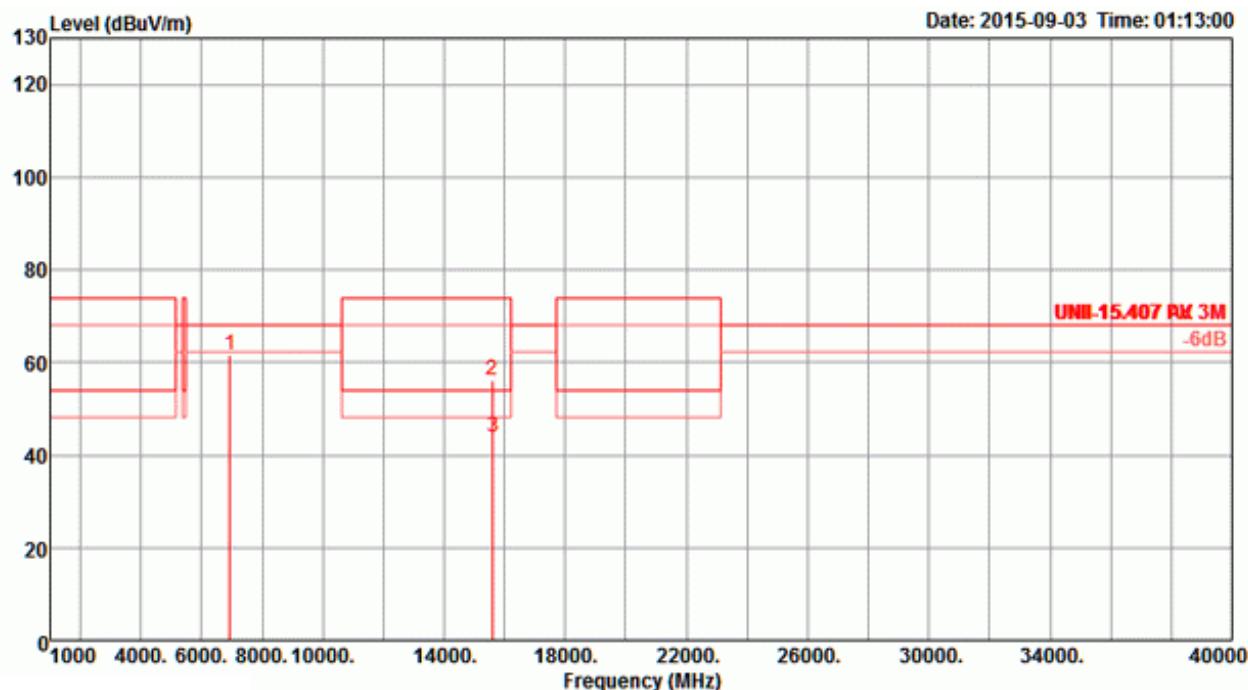
Horizontal


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	6906.63	61.72	68.20	-6.48	54.87	4.97	36.57	34.69	302	177 Peak	HORIZONTAL
2	15521.50	43.82	54.00	-10.18	32.74	7.55	38.13	34.60	34	172 Average	HORIZONTAL
3	15555.10	56.34	74.00	-17.66	45.23	7.56	38.19	34.64	34	172 Peak	HORIZONTAL

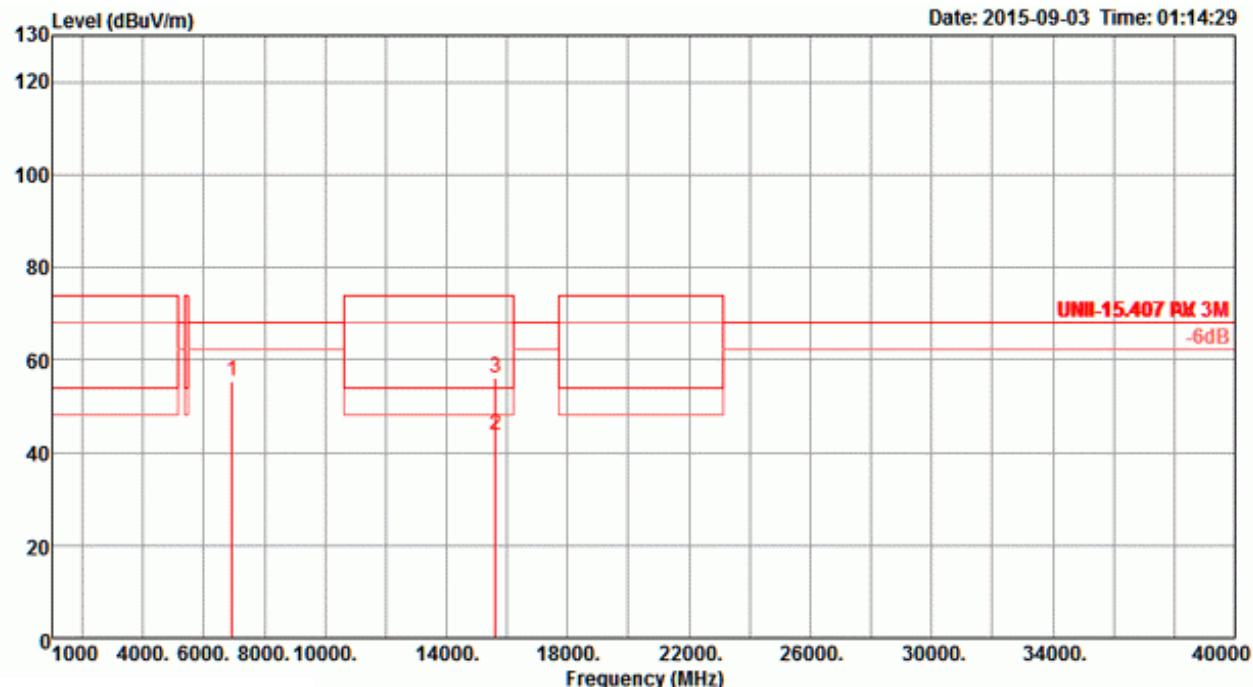
Vertical


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	6906.61	54.64	68.20	-13.56	47.79	4.97	36.57	34.69	320	150 Peak	VERTICAL
2	15516.20	43.92	54.00	-10.08	32.84	7.55	38.13	34.60	97	159 Average	VERTICAL
3	15521.70	56.33	74.00	-17.67	45.25	7.55	38.13	34.60	97	159 Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

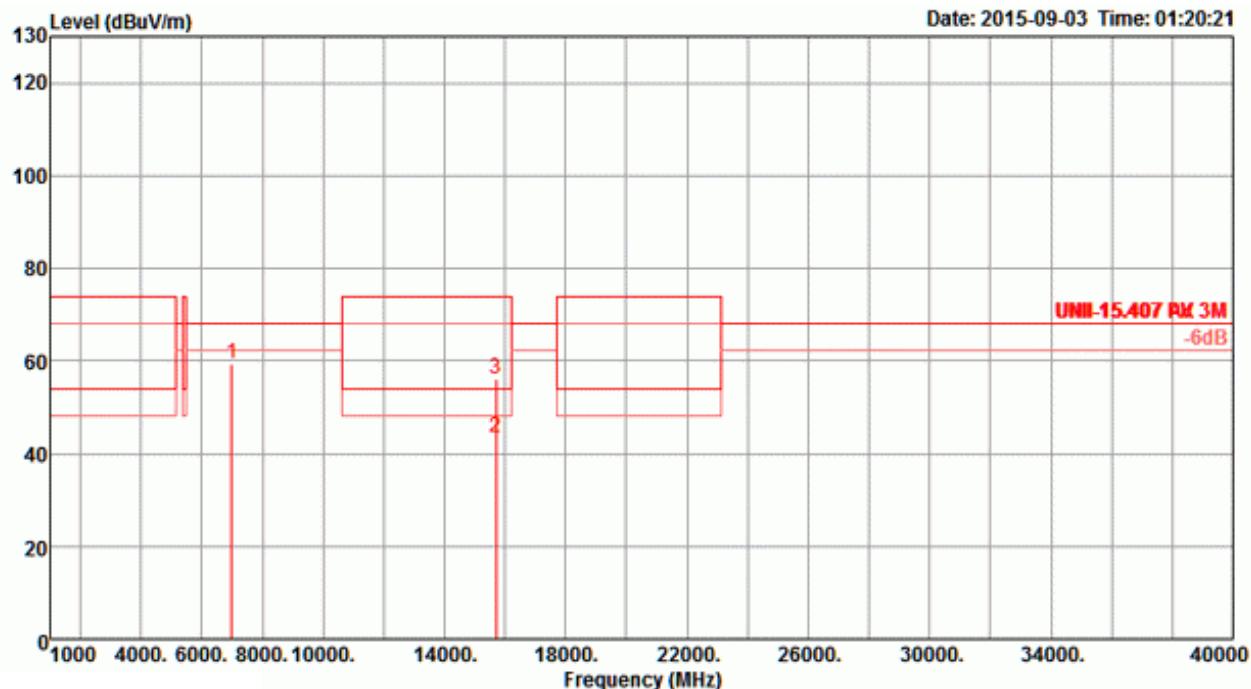
Horizontal

Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6933.33	61.46	68.20	-6.74	54.52	4.98	36.65	34.69	300	191	Peak	HORIZONTAL
2 15589.50	56.02	74.00	-17.98	44.86	7.57	38.26	34.67	265	202	Peak	HORIZONTAL
3 15606.60	43.80	54.00	-10.20	32.62	7.58	38.29	34.69	265	202	Average	HORIZONTAL

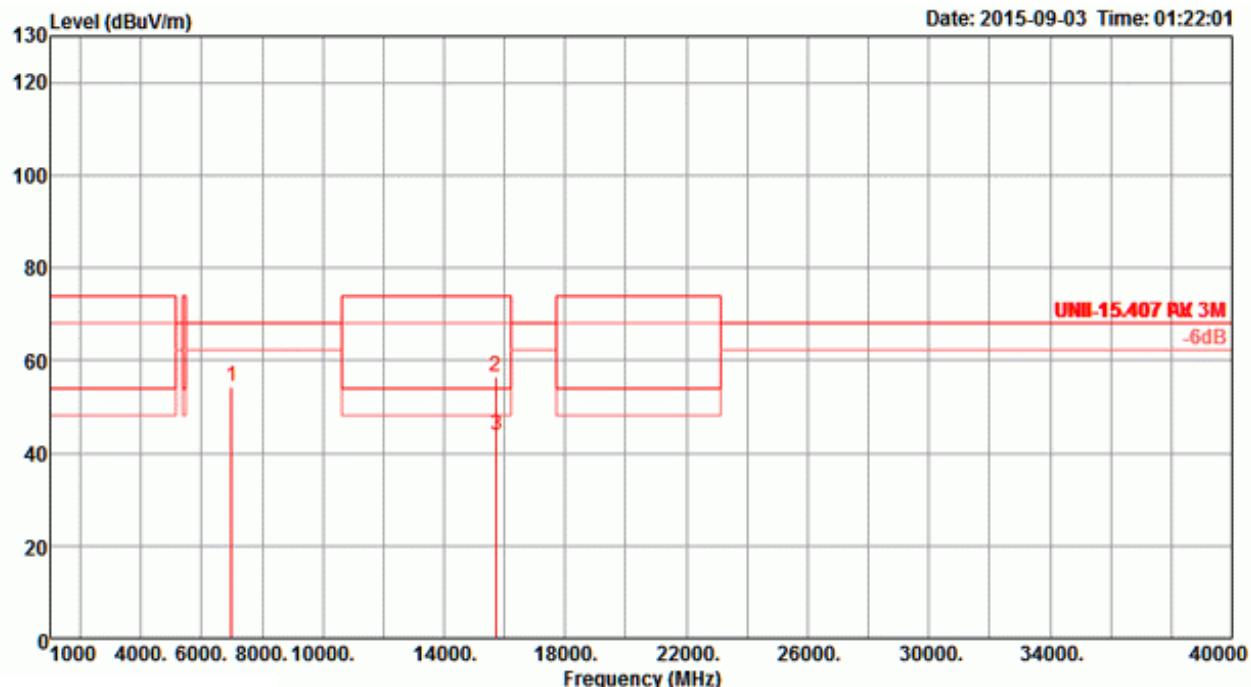
Vertical


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	6933.40	55.47	68.20	-12.73	48.53	4.98	36.65	34.69	321	181 Peak	VERTICAL
2	15604.60	43.93	54.00	-10.07	32.75	7.58	38.29	34.69	284	167 Average	VERTICAL
3	15609.50	56.28	74.00	-17.72	45.10	7.58	38.29	34.69	284	167 Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8

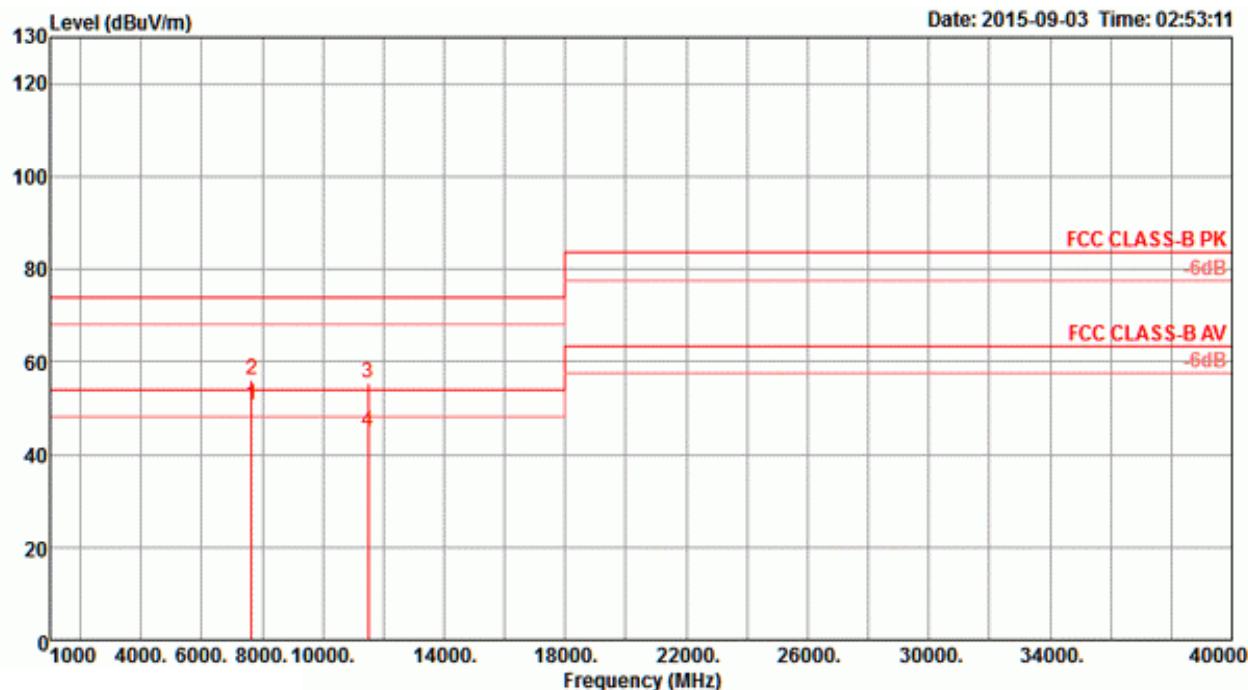
Horizontal


Freq MHz	Level dBuV/m	Limit Line	Over Limit	Read Level dBuV	Cable Loss	Antenna Factor	Preamp Factor	T/Pos deg	A/Pos cm	Remark	Pol/Phase
		dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1 6986.59	59.36	68.20	-8.84	52.30	5.01	36.76	34.71	51	156	Peak	HORIZONTAL
2 15705.70	43.36	54.00	-10.64	32.05	7.62	38.47	34.78	112	201	Average	HORIZONTAL
3 15711.10	56.30	74.00	-17.70	44.99	7.62	38.47	34.78	112	201	Peak	HORIZONTAL

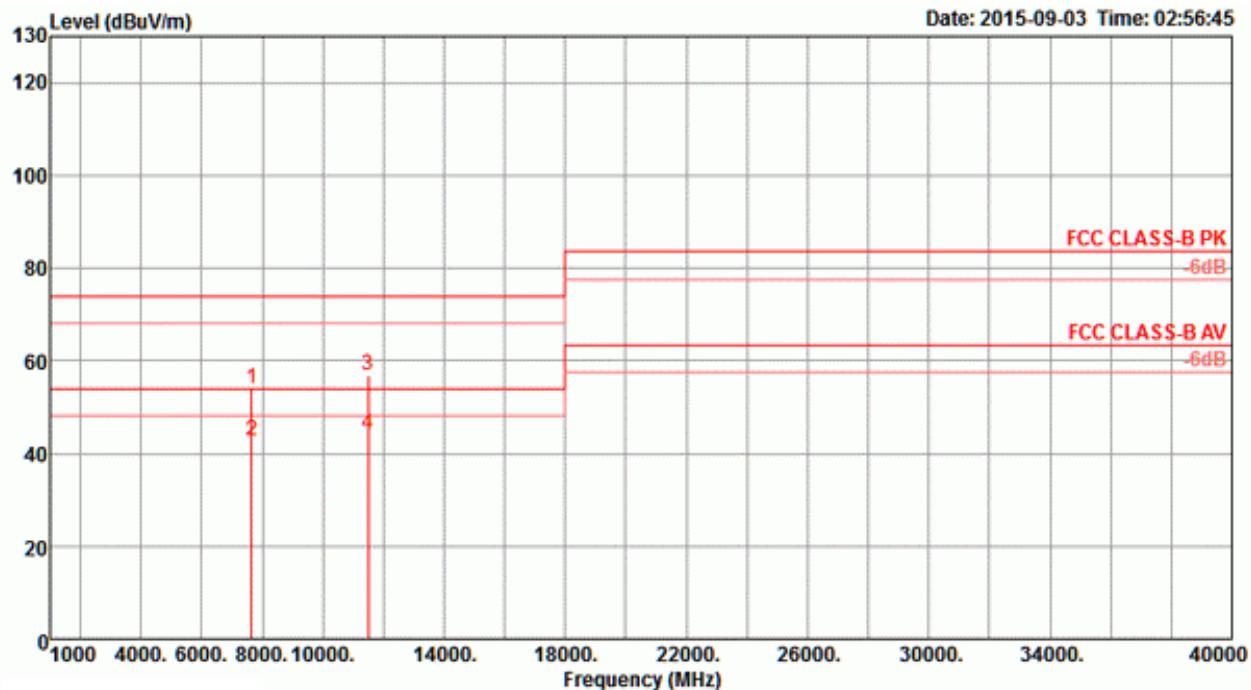
Vertical


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	6986.62	54.26	68.20	-13.94	47.20	5.01	36.76	34.71	322	189 Peak	VERTICAL
2	15695.90	56.36	74.00	-17.64	45.06	7.61	38.44	34.75	165	184 Peak	VERTICAL
3	15718.90	43.66	54.00	-10.34	32.32	7.62	38.50	34.78	165	184 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8

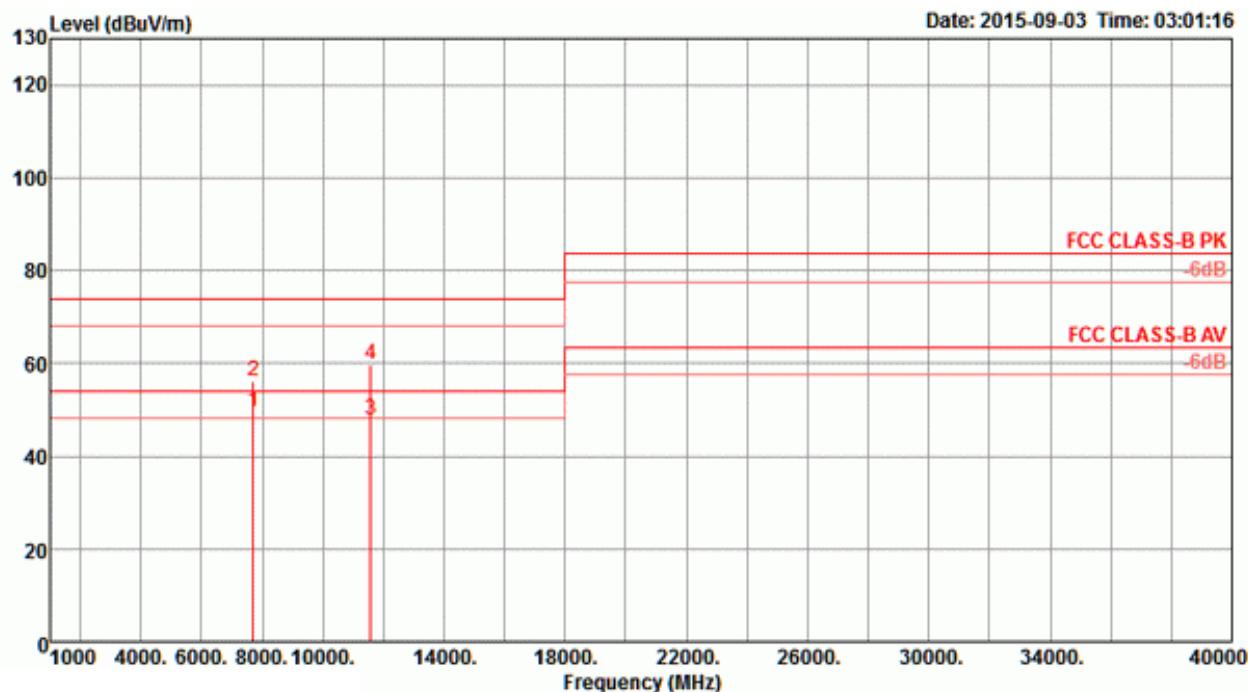
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable Antenna Preamp			T/Pos	A/Pos	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
MHz	dBuV/m	dBuV/m		dB	dB	dB/m	dB	deg	cm		
1	7660.06	50.65	54.00	-3.35	42.85	5.22	37.43	34.85	283	151 Average	HORIZONTAL
2	7660.29	56.26	74.00	-17.74	48.46	5.22	37.43	34.85	283	151 Peak	HORIZONTAL
3	11489.30	55.56	74.00	-18.44	44.95	6.53	38.70	34.62	20	150 Peak	HORIZONTAL
4	11490.40	44.95	54.00	-9.05	34.34	6.53	38.70	34.62	20	150 Average	HORIZONTAL

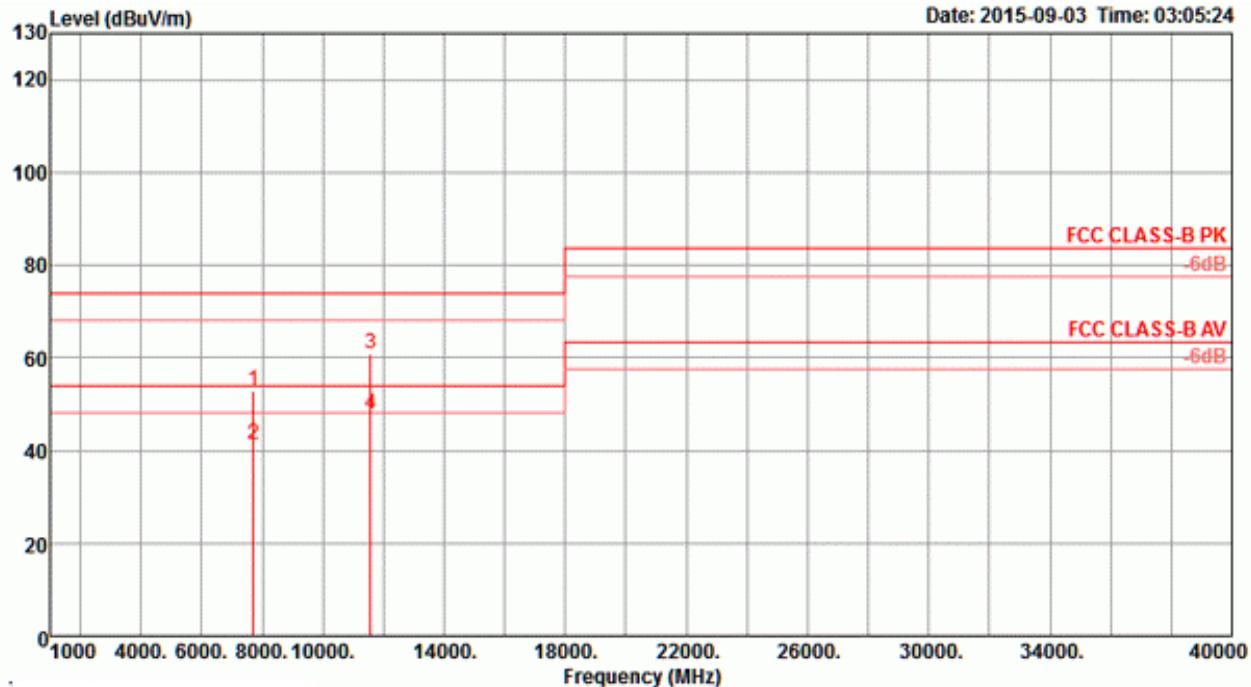
Vertical

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7659.54	53.78	74.00	-20.22	45.98	5.22	37.43	34.85	5	154 Peak	VERTICAL
2	7660.10	42.57	54.00	-11.43	34.77	5.22	37.43	34.85	5	154 Average	VERTICAL
3	11491.20	56.76	74.00	-17.24	46.15	6.53	38.70	34.62	333	146 Peak	VERTICAL
4	11491.80	44.12	54.00	-9.88	33.51	6.53	38.70	34.62	333	146 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8

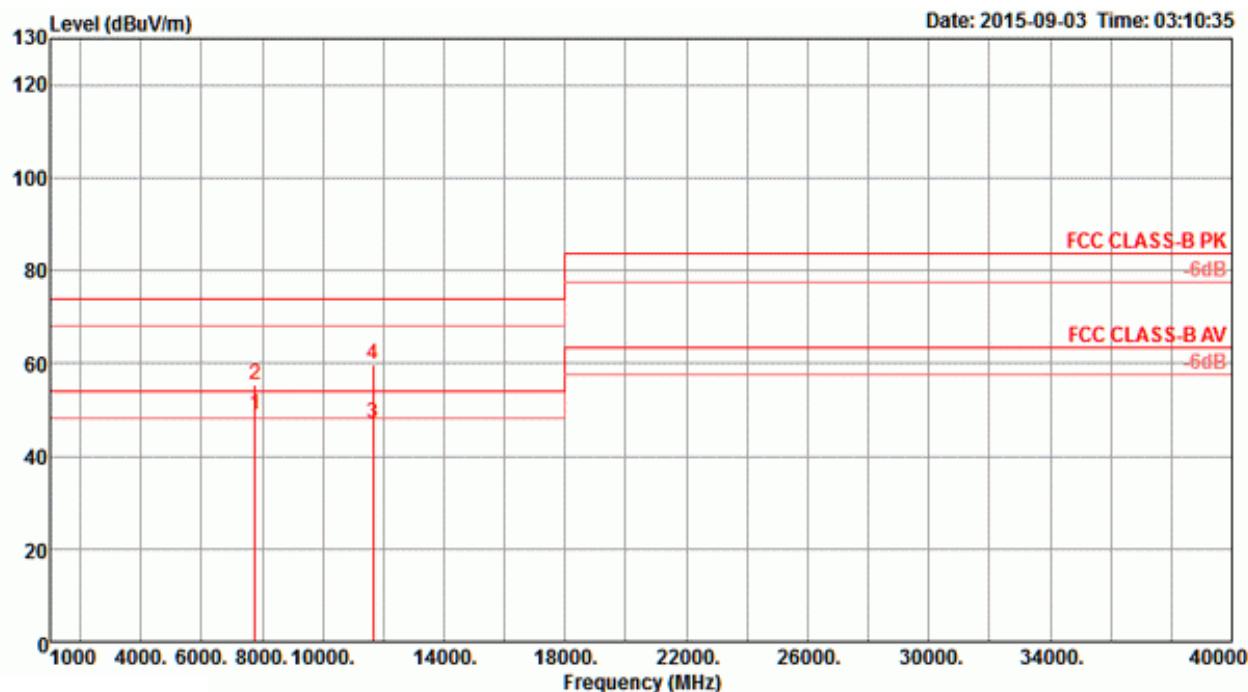
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1	7713.36	49.51	54.00	-4.49	41.72	5.25	37.41	34.87	282	144	Average HORIZONTAL
2	7713.40	56.09	74.00	-17.91	48.30	5.25	37.41	34.87	282	144	Peak HORIZONTAL
3	11570.10	47.90	54.00	-6.10	37.29	6.55	38.71	34.65	22	146	Average HORIZONTAL
4	11571.60	59.68	74.00	-14.32	49.07	6.55	38.71	34.65	22	146	Peak HORIZONTAL

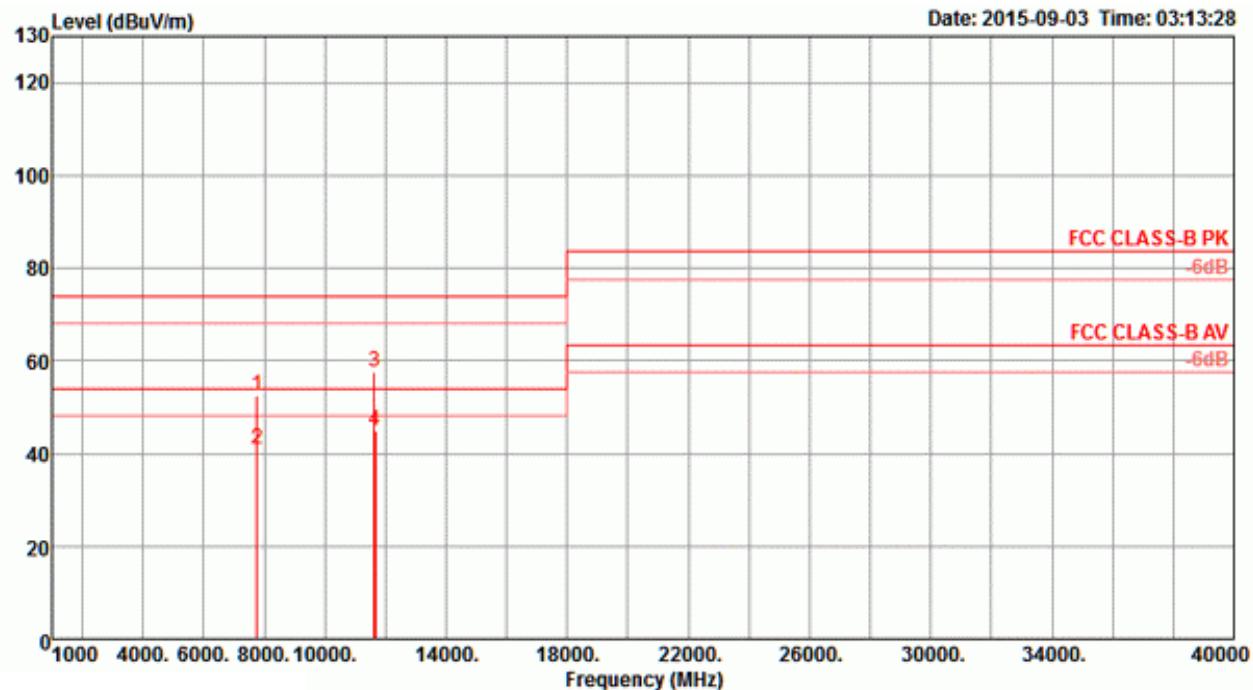
Vertical

Freq	Level	Limit Line	Over Limit	Read Level	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7713.37	52.78	74.00	-21.22	44.99	5.25	37.41	34.87	5	167 Peak	VERTICAL
2	7713.45	41.35	54.00	-12.65	33.56	5.25	37.41	34.87	5	167 Average	VERTICAL
3	11569.50	60.82	74.00	-13.18	50.20	6.55	38.71	34.64	332	146 Peak	VERTICAL
4	11569.80	47.94	54.00	-6.06	37.33	6.55	38.71	34.65	332	146 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8

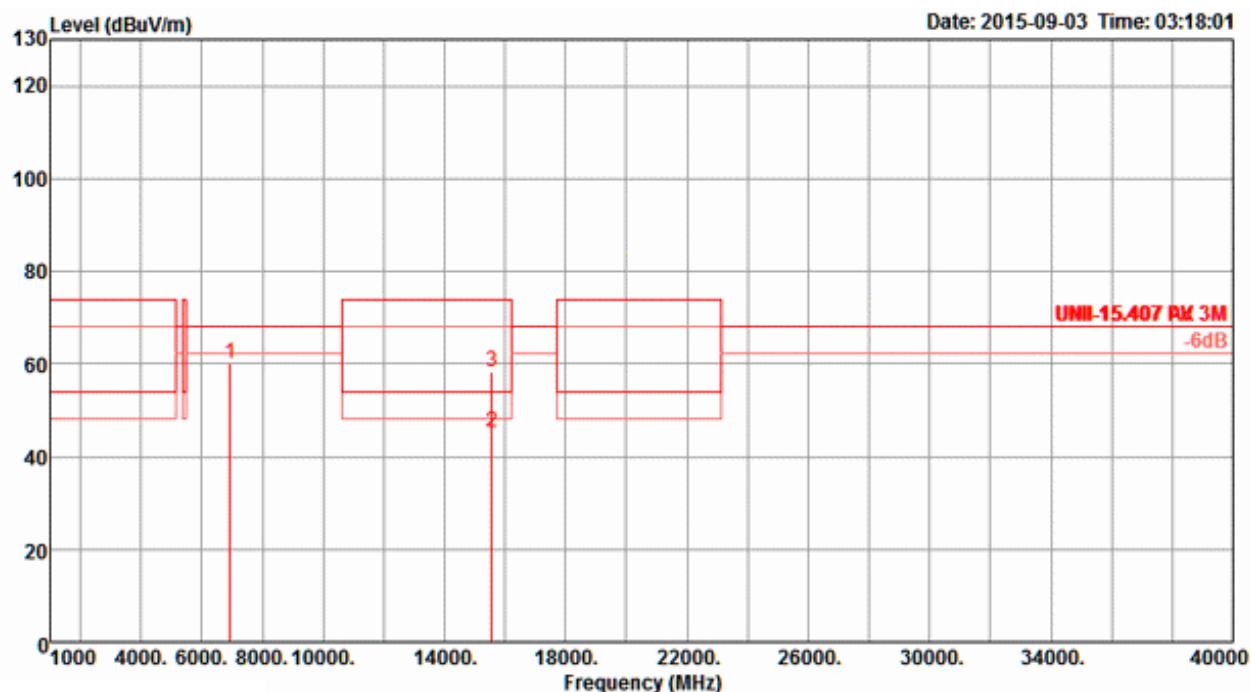
Horizontal


Freq	Level	Limit	Over	Read	Cable			Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Line	dB	dBuV						
1	7766.68	48.88	54.00	-5.12	41.10	5.28	37.39	34.89	285	160	Average	HORIZONTAL	
2	7766.71	55.47	74.00	-18.53	47.69	5.28	37.39	34.89	285	160	Peak	HORIZONTAL	
3	11650.90	47.07	54.00	-6.93	36.46	6.56	38.73	34.68	9	158	Average	HORIZONTAL	
4	11651.20	59.69	74.00	-14.31	49.08	6.56	38.73	34.68	9	158	Peak	HORIZONTAL	

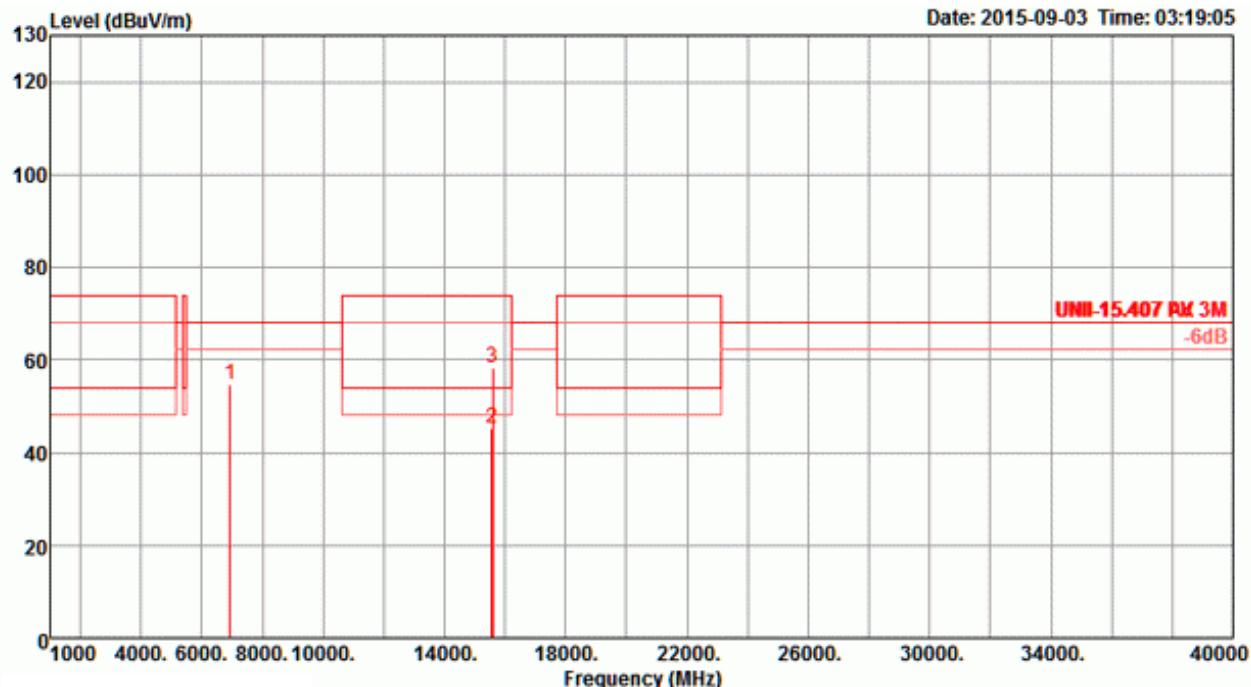
Vertical


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7766.60	52.38	74.00	-21.62	44.60	5.28	37.39	34.89	28	152 Peak	VERTICAL
2	7766.65	40.82	54.00	-13.18	33.04	5.28	37.39	34.89	28	152 Average	VERTICAL
3	11647.90	57.61	74.00	-16.39	47.00	6.56	38.73	34.68	28	159 Peak	VERTICAL
4	11650.50	44.92	54.00	-9.08	34.31	6.56	38.73	34.68	28	159 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT40 CH 38 / Chain 5 + Chain 6 + Chain 7 + Chain 8

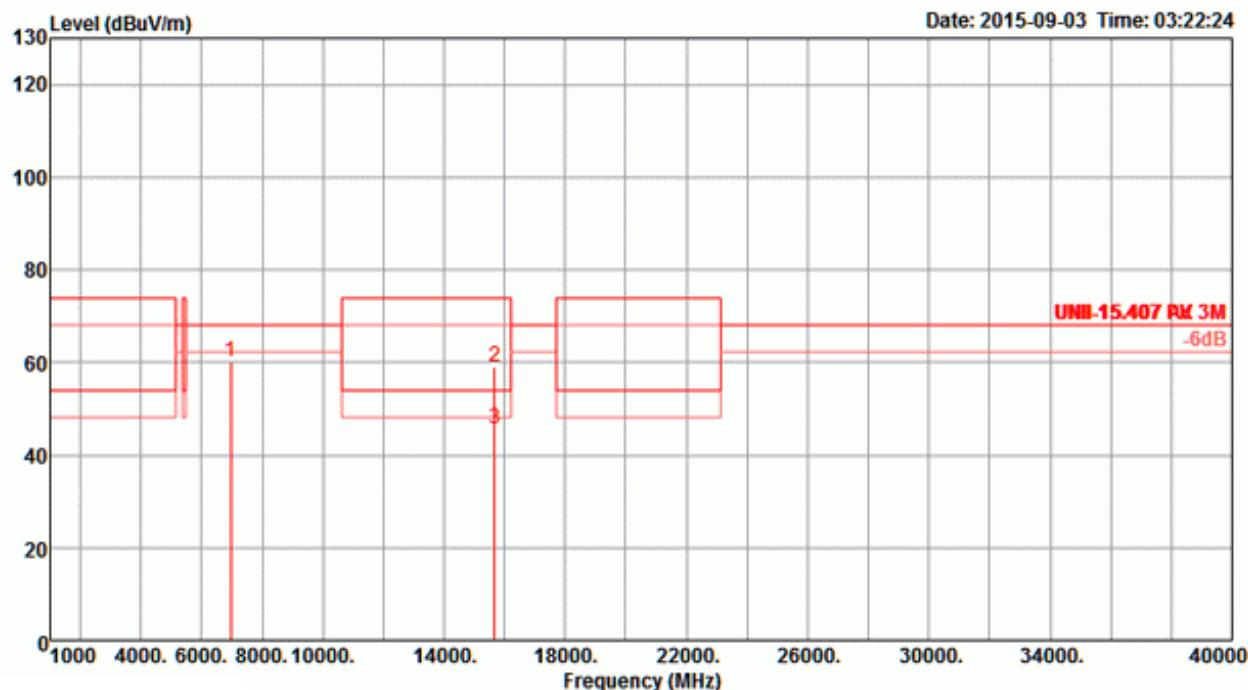
Horizontal


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	6919.95	60.26	68.20	-7.94	53.36	4.98	36.61	34.69	295	194 Peak	HORIZONTAL
2	15559.60	45.42	54.00	-8.58	34.31	7.56	38.19	34.64	329	178 Average	HORIZONTAL
3	15572.30	58.31	74.00	-15.69	47.16	7.57	38.22	34.64	329	178 Peak	HORIZONTAL

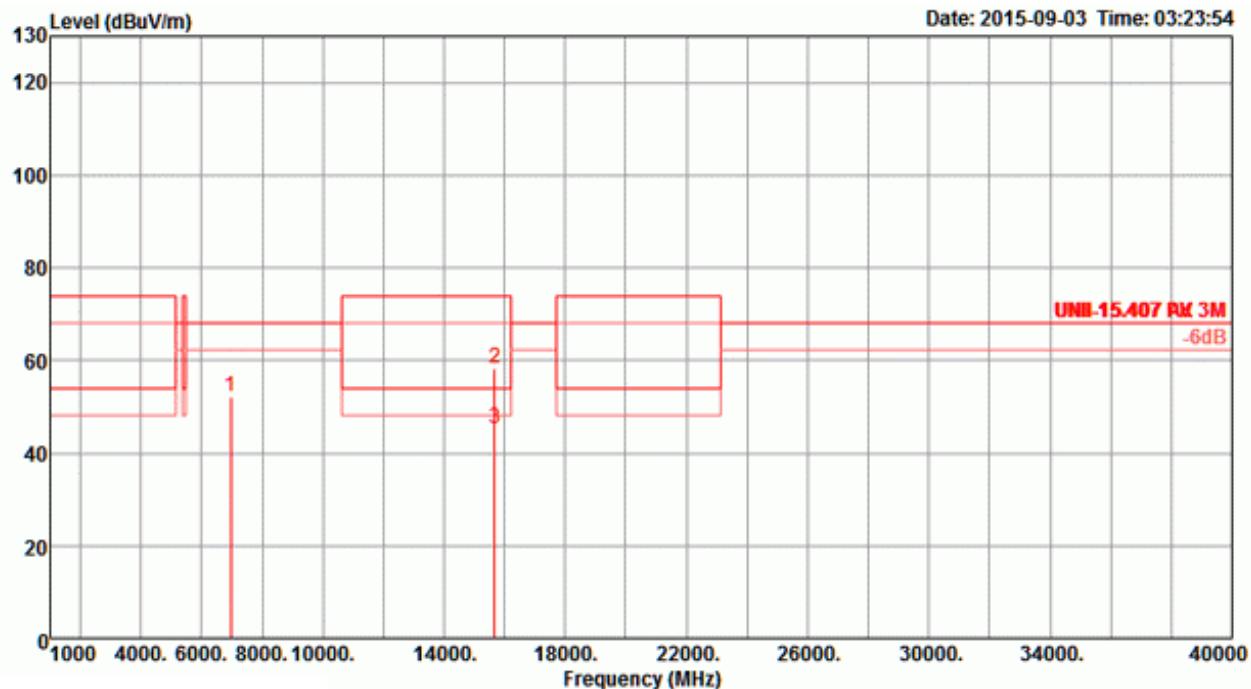
Vertical


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	6919.93	54.82	68.20	-13.38	47.92	4.98	36.61	34.69	320	167	Peak
2	15570.00	45.31	54.00	-8.69	34.16	7.57	38.22	34.64	304	167	Average
3	15592.70	58.40	74.00	-15.60	47.24	7.57	38.26	34.67	304	167	Peak

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT40 CH 46 / Chain 5 + Chain 6 + Chain 7 + Chain 8

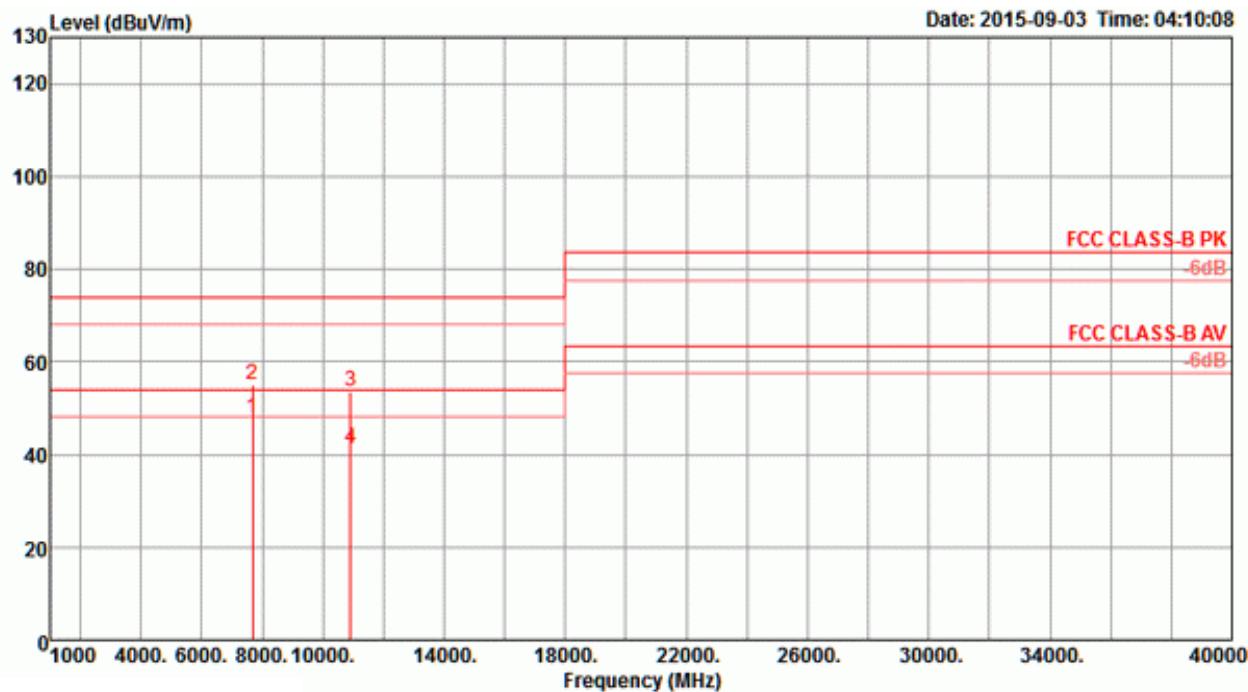
Horizontal


Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable Antenna Preamp			T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Cable Loss	Antenna Factor	Preamp Factor				
1 6973.28	60.25	68.20	-7.95	53.23	5.00	36.72	34.70	57	157	Peak	HORIZONTAL
2 15680.20	58.89	74.00	-15.11	47.59	7.61	38.44	34.75	108	172	Peak	HORIZONTAL
3 15686.60	45.62	54.00	-8.38	34.32	7.61	38.44	34.75	108	172	Average	HORIZONTAL

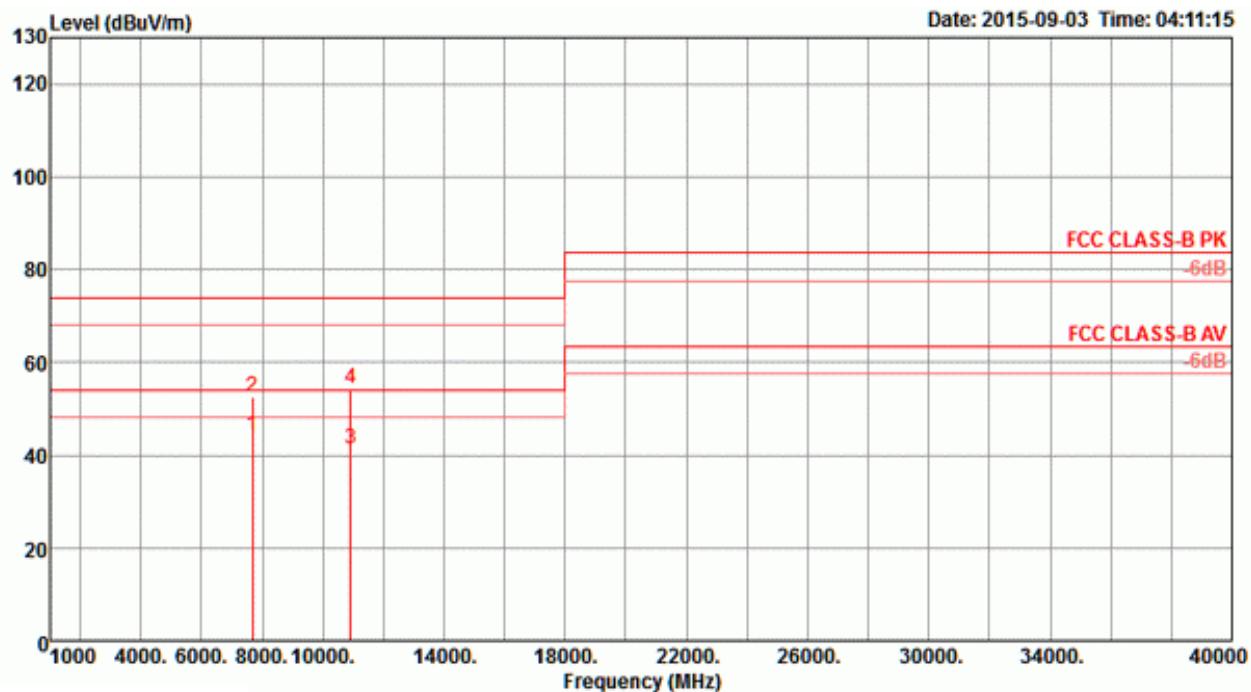
Vertical


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	6973.49	52.26	68.20	-15.94	45.24	5.00	36.72	34.70	82	162 Peak	VERTICAL
2	15667.20	58.46	74.00	-15.54	47.18	7.60	38.41	34.73	82	154 Peak	VERTICAL
3	15667.30	45.41	54.00	-8.59	34.13	7.60	38.41	34.73	82	154 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT40 CH 151 / Chain 5 + Chain 6 + Chain 7 + Chain 8

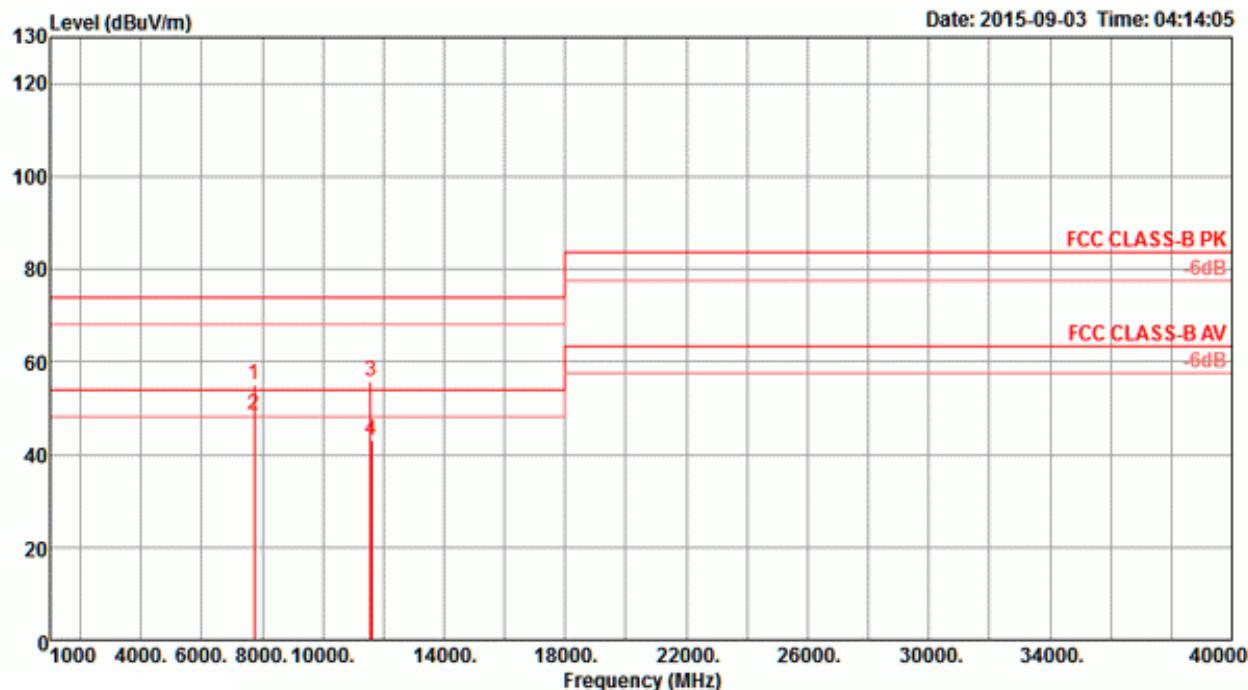
Horizontal


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	T/Pos deg	A/Pos cm	Remark	Pol/Phase
1 7673.31	47.89	54.00	-6.11	40.09	5.23	37.43	34.86	338	148	Average	HORIZONTAL
2 7673.83	54.92	74.00	-19.08	47.12	5.23	37.43	34.86	338	148	Peak	HORIZONTAL
3 10911.00	53.61	74.00	-20.39	43.24	6.36	38.72	34.71	347	158	Peak	HORIZONTAL
4 10923.30	41.22	54.00	-12.78	30.85	6.37	38.71	34.71	347	158	Average	HORIZONTAL

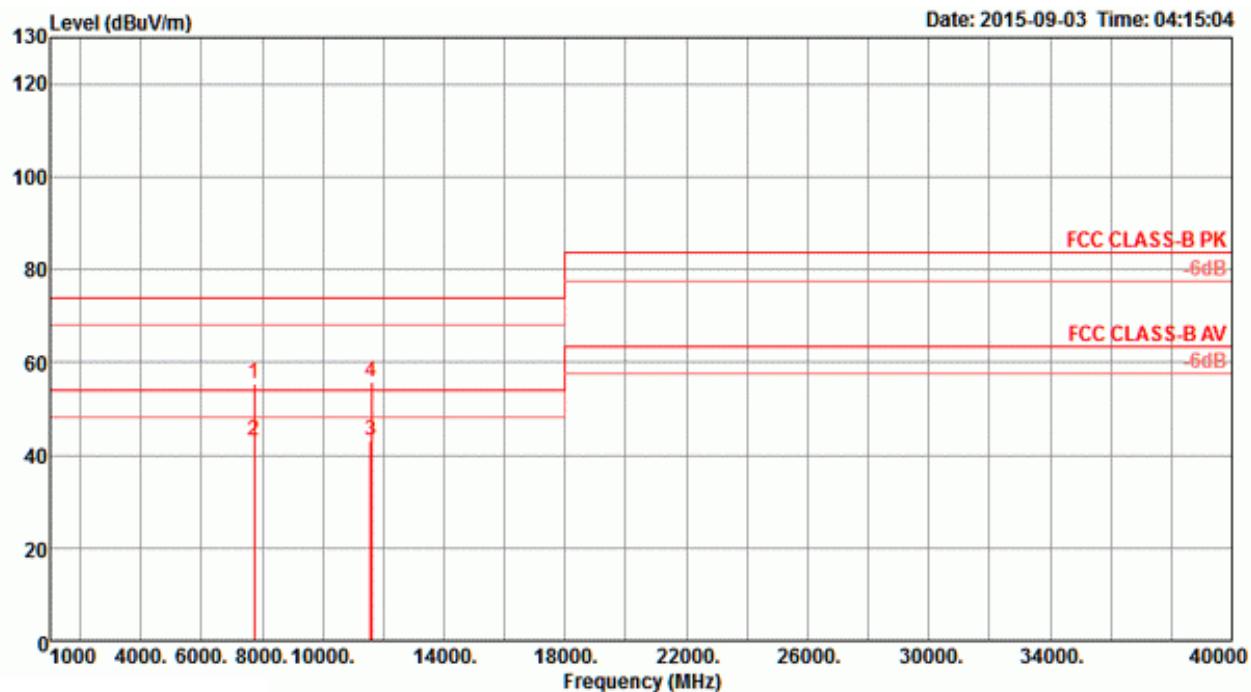
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamp	T/Pos deg	A/Pos cm	Remark	Pol/Phase
					Loss	Factor	Factor				
1 7673.48	44.09	54.00	-9.91	36.29	5.23	37.43	34.86	341	169	Average	VERTICAL
2 7673.71	52.57	74.00	-21.43	44.77	5.23	37.43	34.86	341	169	Peak	VERTICAL
3 10910.70	41.40	54.00	-12.60	31.03	6.36	38.72	34.71	314	147	Average	VERTICAL
4 10913.70	54.38	74.00	-19.62	44.01	6.36	38.72	34.71	314	147	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT40 CH 159 / Chain 5 + Chain 6 + Chain 7 + Chain 8

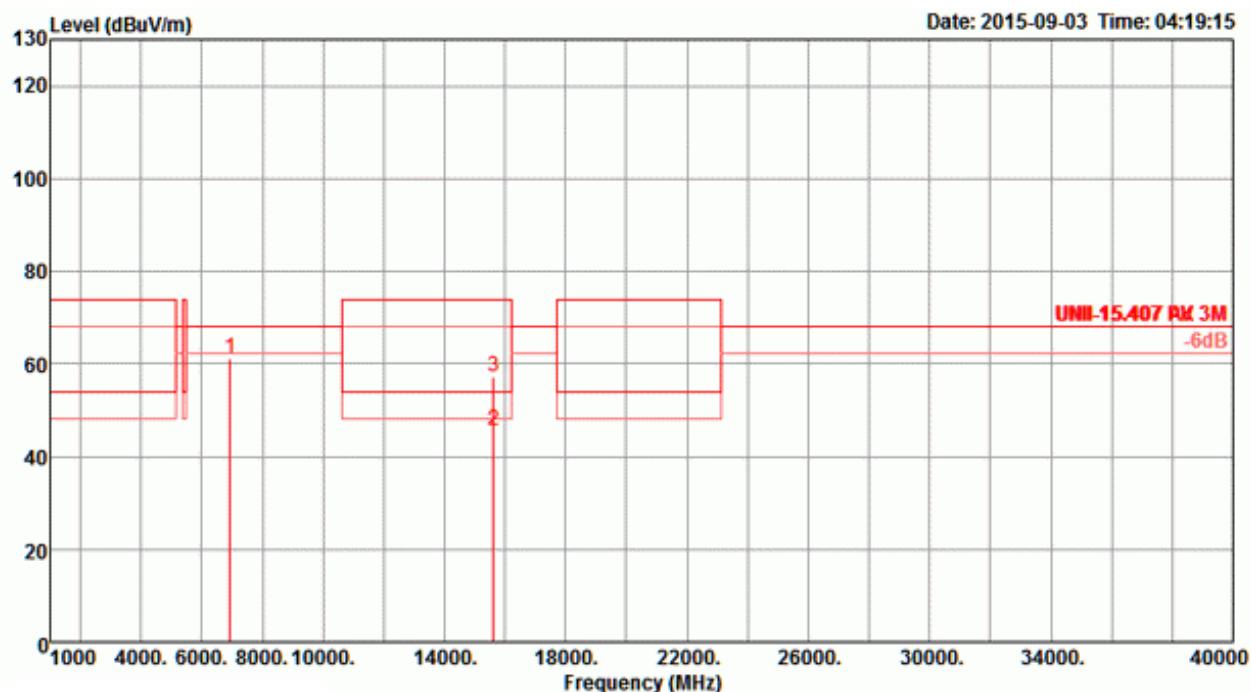
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7726.69	55.07	74.00	-18.93	47.28	5.26	37.41	34.88	291	146 Peak	HORIZONTAL
2	7726.74	48.67	54.00	-5.33	40.88	5.26	37.41	34.88	291	146 Average	HORIZONTAL
3	11577.80	55.63	74.00	-18.37	45.02	6.55	38.71	34.65	264	160 Peak	HORIZONTAL
4	11594.90	43.01	54.00	-10.99	32.39	6.55	38.72	34.65	264	160 Average	HORIZONTAL

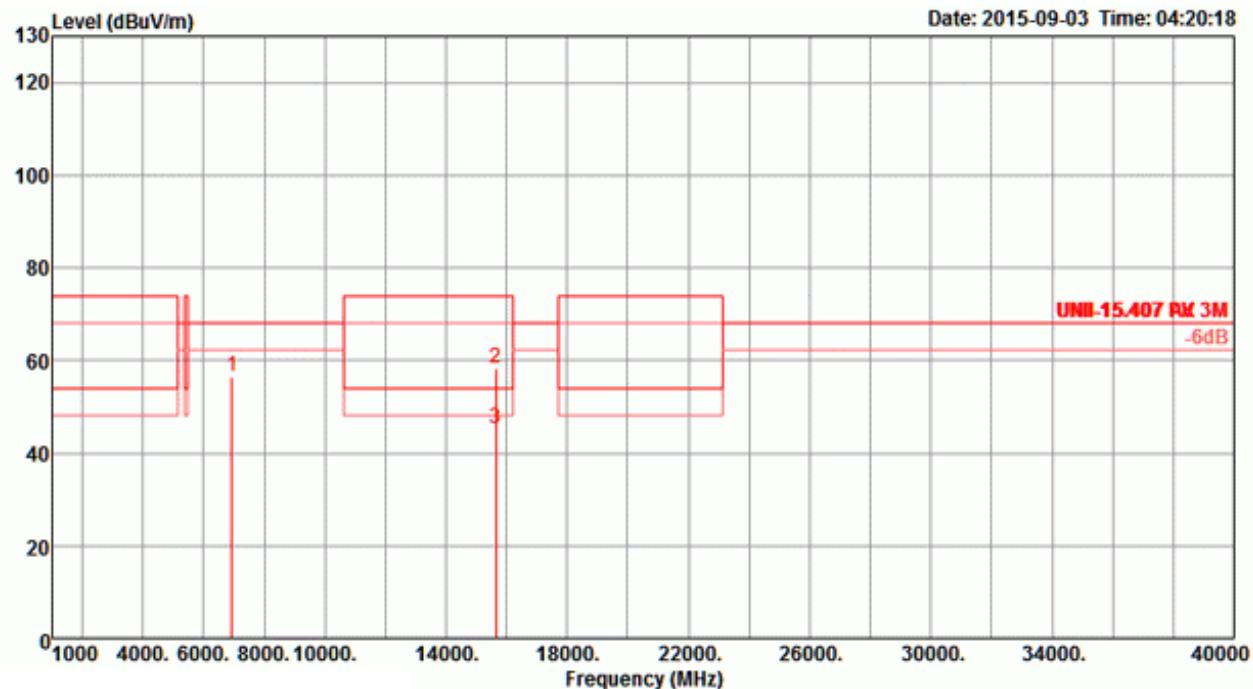
Vertical


Freq MHz	Level dBuV/m	Limit Line dB	Over Limit dB	Read Level dBuV	Cable Loss	Antenna Factor	Preamp Factor	T/Pos deg	A/Pos cm	Remark	Pol/Phase
1 7724.43	55.52	74.00	-18.48	47.73	5.26	37.41	34.88	128	166	Peak	VERTICAL
2 7726.68	43.09	54.00	-10.91	35.30	5.26	37.41	34.88	128	166	Average	VERTICAL
3 11592.50	43.15	54.00	-10.85	32.53	6.55	38.72	34.65	230	150	Average	VERTICAL
4 11597.00	55.78	74.00	-18.22	45.17	6.55	38.72	34.66	230	150	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT80 CH 42 / Chain 5 + Chain 6 + Chain 7 + Chain 8

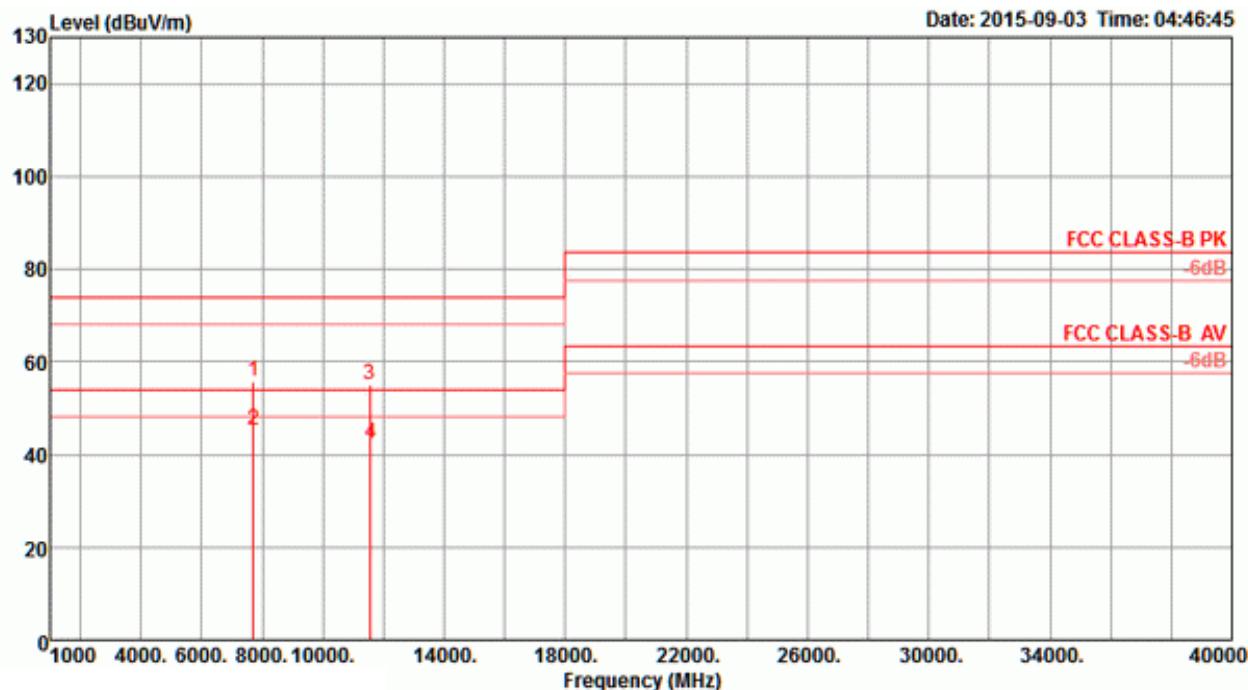
Horizontal


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	6946.61	61.18	68.20	-7.02	54.19	4.99	36.69	34.69	306	189 Peak	HORIZONTAL
2	15606.90	45.47	54.00	-8.53	34.29	7.58	38.29	34.69	243	171 Average	HORIZONTAL
3	15615.80	57.18	74.00	-16.82	45.96	7.59	38.32	34.69	243	171 Peak	HORIZONTAL

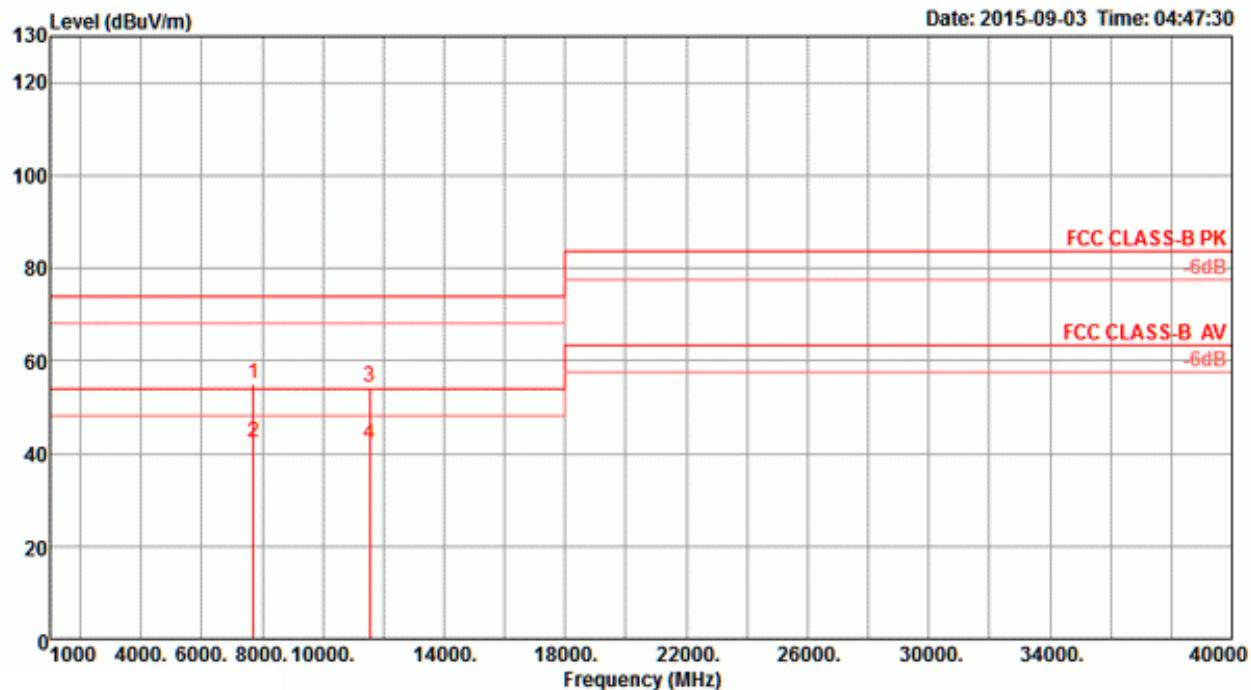
Vertical

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	6946.54	56.45	68.20	-11.75	49.46	4.99	36.69	34.69	321	173 Peak	VERTICAL
2	15632.40	58.27	74.00	-15.73	47.04	7.59	38.35	34.71	298	169 Peak	VERTICAL
3	15643.00	45.37	54.00	-8.63	34.14	7.59	38.35	34.71	298	169 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss4 VHT80 CH 155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

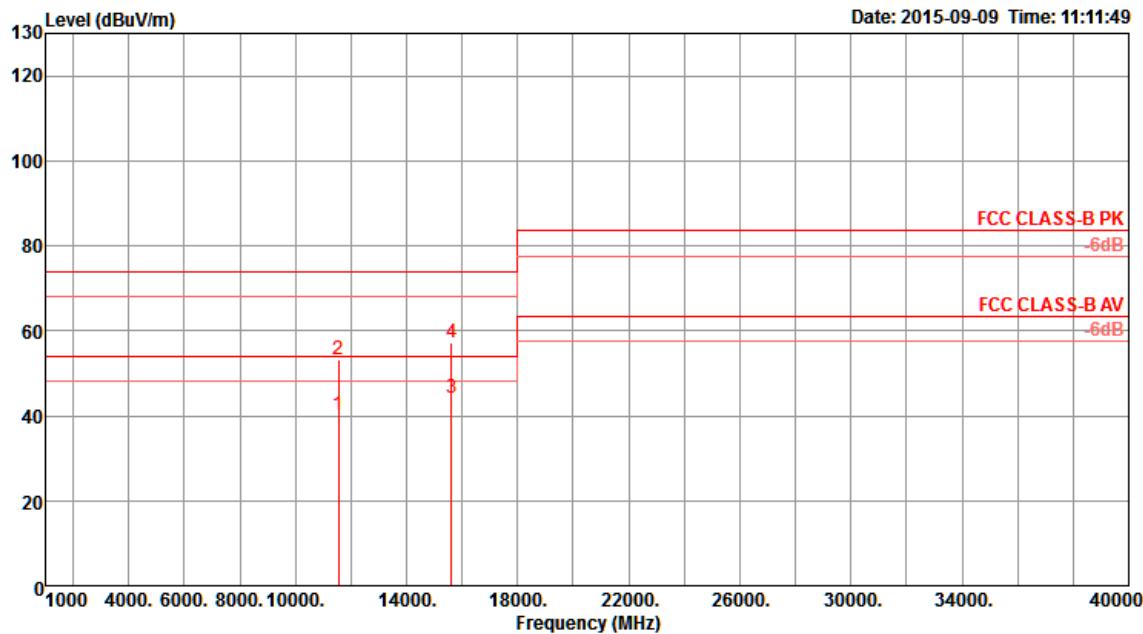
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1 7698.07	55.91	74.00	-18.09	48.12	5.24	37.42	34.87	176	169	Peak	HORIZONTAL
2 7699.26	45.32	54.00	-8.68	37.53	5.24	37.42	34.87	176	169	Average	HORIZONTAL
3 11560.90	55.13	74.00	-18.87	44.51	6.55	38.71	34.64	319	141	Peak	HORIZONTAL
4 11571.60	42.51	54.00	-11.49	31.90	6.55	38.71	34.65	319	141	Average	HORIZONTAL

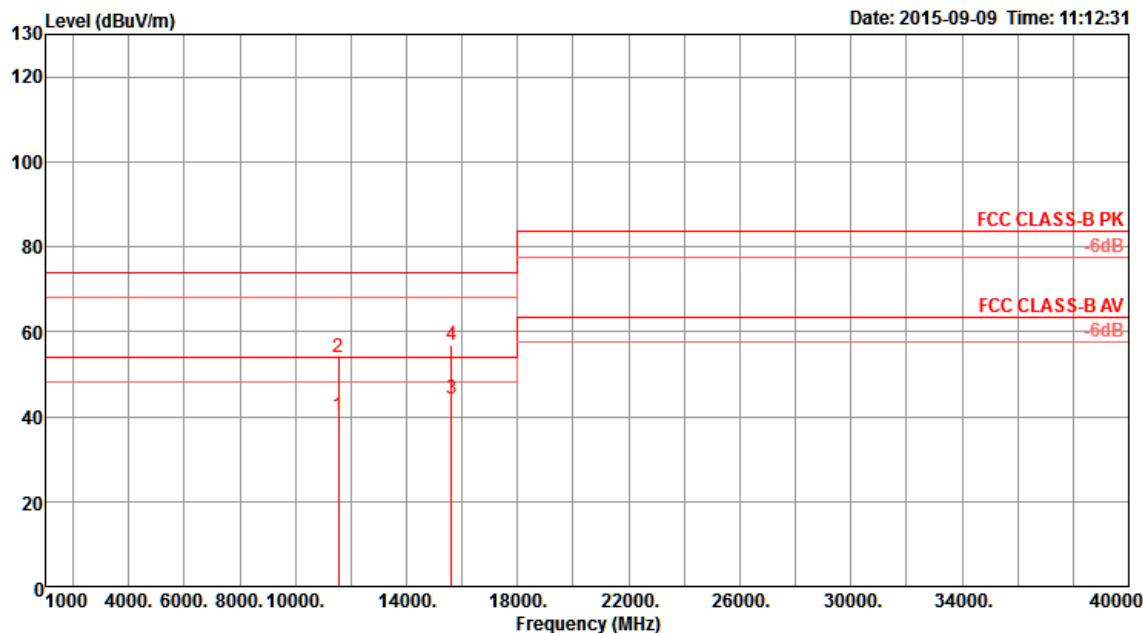
Vertical

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1 7699.06	54.91	74.00	-19.09	47.12	5.24	37.42	34.87	208	140	Peak	VERTICAL
2 7699.53	42.42	54.00	-11.58	34.63	5.24	37.42	34.87	208	140	Average	VERTICAL
3 11549.60	54.49	74.00	-19.51	43.87	6.55	38.71	34.64	265	168	Peak	VERTICAL
4 11564.10	42.15	54.00	-11.85	31.53	6.55	38.71	34.64	265	168	Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 1 / CH 42+155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Horizontal


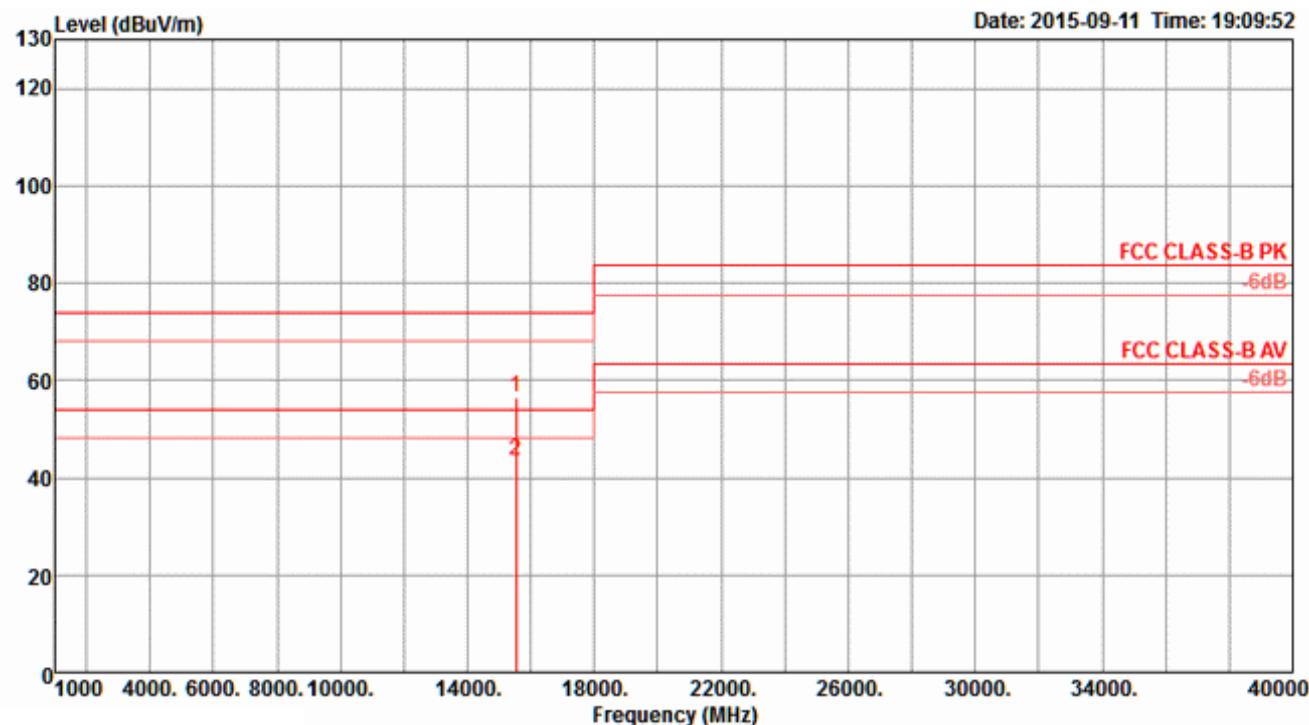
Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable	Antenna	Preamplifier	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1 11548.50	40.22	54.00	-13.78	29.61	6.54	38.71	34.64	206	151	Average	HORIZONTAL
2 11552.15	53.41	74.00	-20.59	42.79	6.55	38.71	34.64	206	151	Peak	HORIZONTAL
3 15627.74	44.04	54.00	-9.96	32.84	7.59	38.32	34.71	234	149	Average	HORIZONTAL
4 15628.30	57.04	74.00	-16.96	45.84	7.59	38.32	34.71	234	149	Peak	HORIZONTAL

Vertical


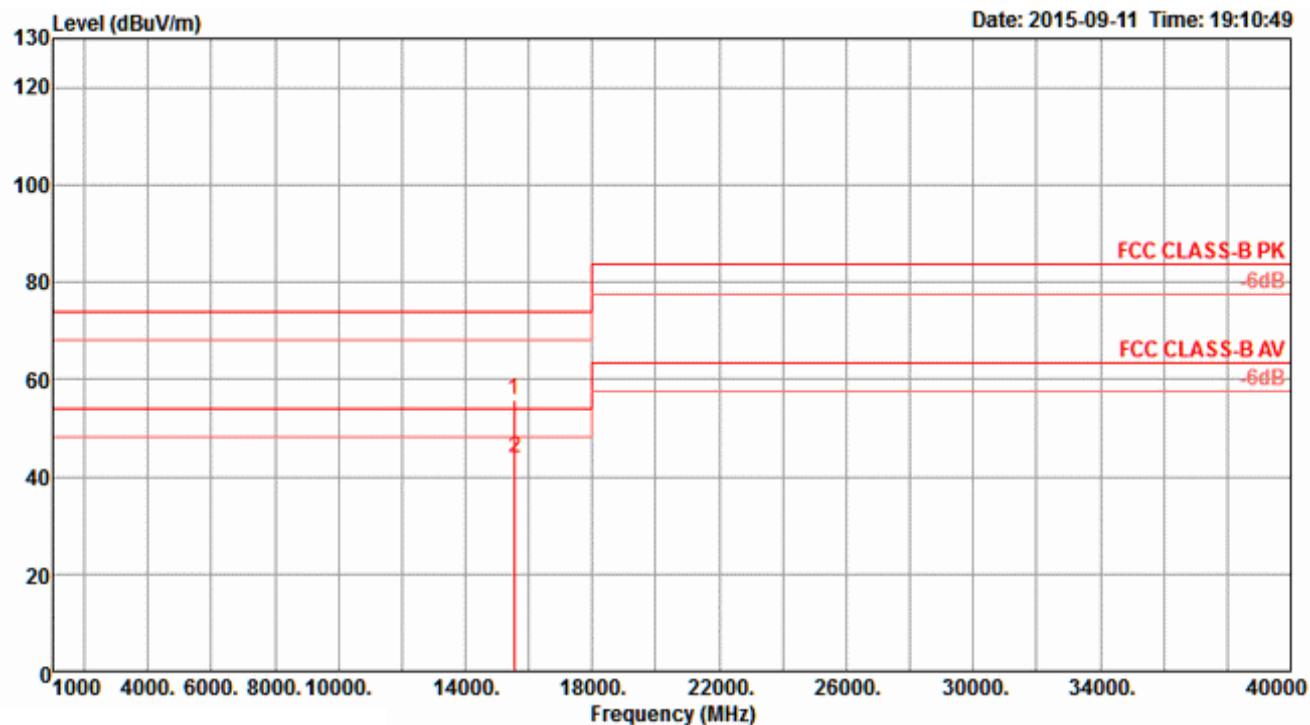
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11548.74	40.20	54.00	-13.80	29.58	6.55	38.71	34.64	71	183	Average	VERTICAL
2	11549.26	54.11	74.00	-19.89	43.49	6.55	38.71	34.64	71	183	Peak	VERTICAL
3	15629.52	44.01	54.00	-9.99	32.78	7.59	38.35	34.71	161	131	Average	VERTICAL
4	15631.48	56.89	74.00	-17.11	45.66	7.59	38.35	34.71	161	131	Peak	VERTICAL

<For Radio 2 Beamforming Mode>

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8

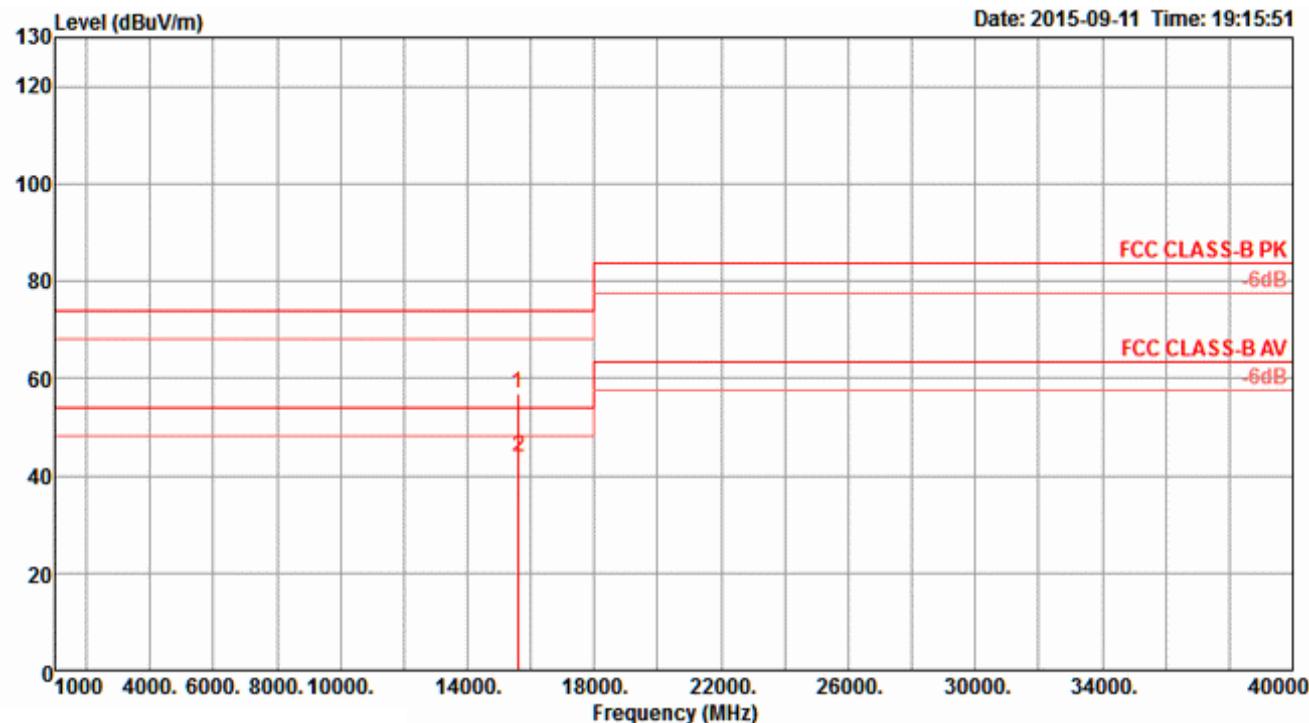
Horizontal

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15542.70	56.55	74.00	-17.45	45.45	7.56	38.16	34.62	210	150 Peak	HORIZONTAL
2	15547.80	43.59	54.00	-10.41	32.48	7.56	38.19	34.64	210	150 Average	HORIZONTAL

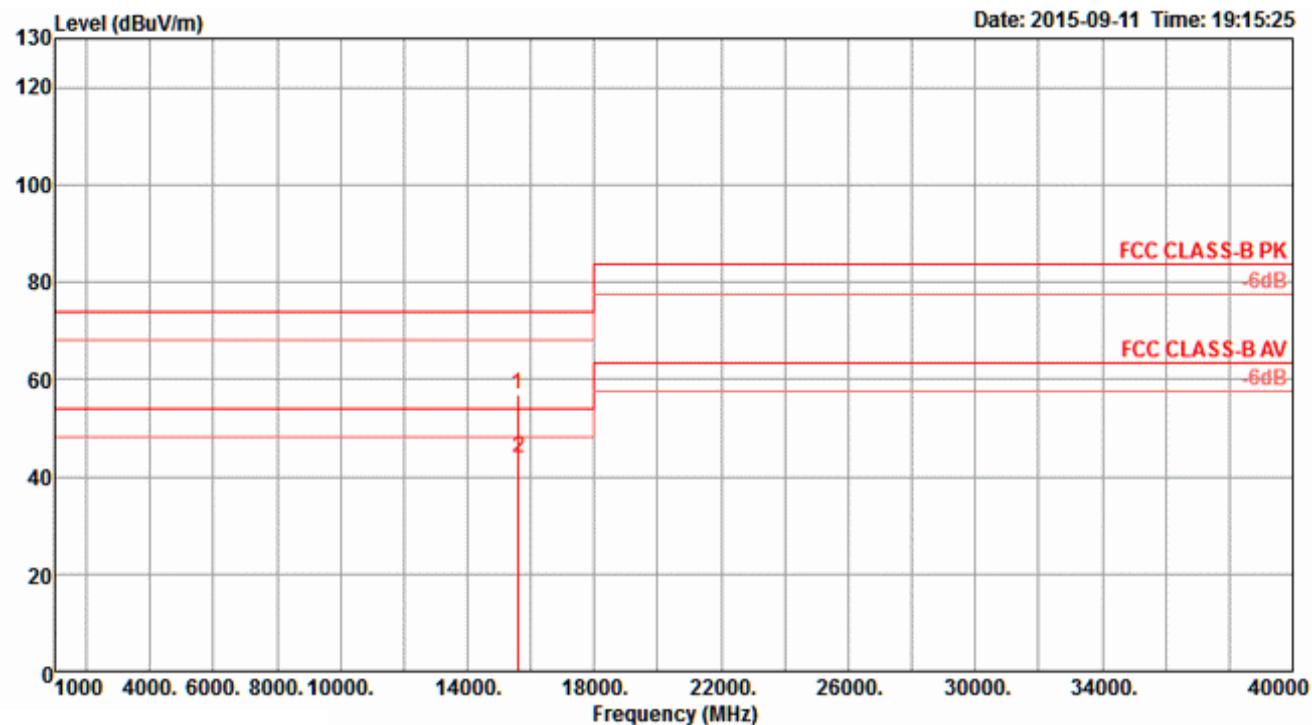
Vertical


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	Cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1	15526.60	55.76	74.00	-18.24	44.66	7.56	38.16	34.62	136	150 Peak	VERTICAL
2	15557.70	43.84	54.00	-10.16	32.73	7.56	38.19	34.64	136	150 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8

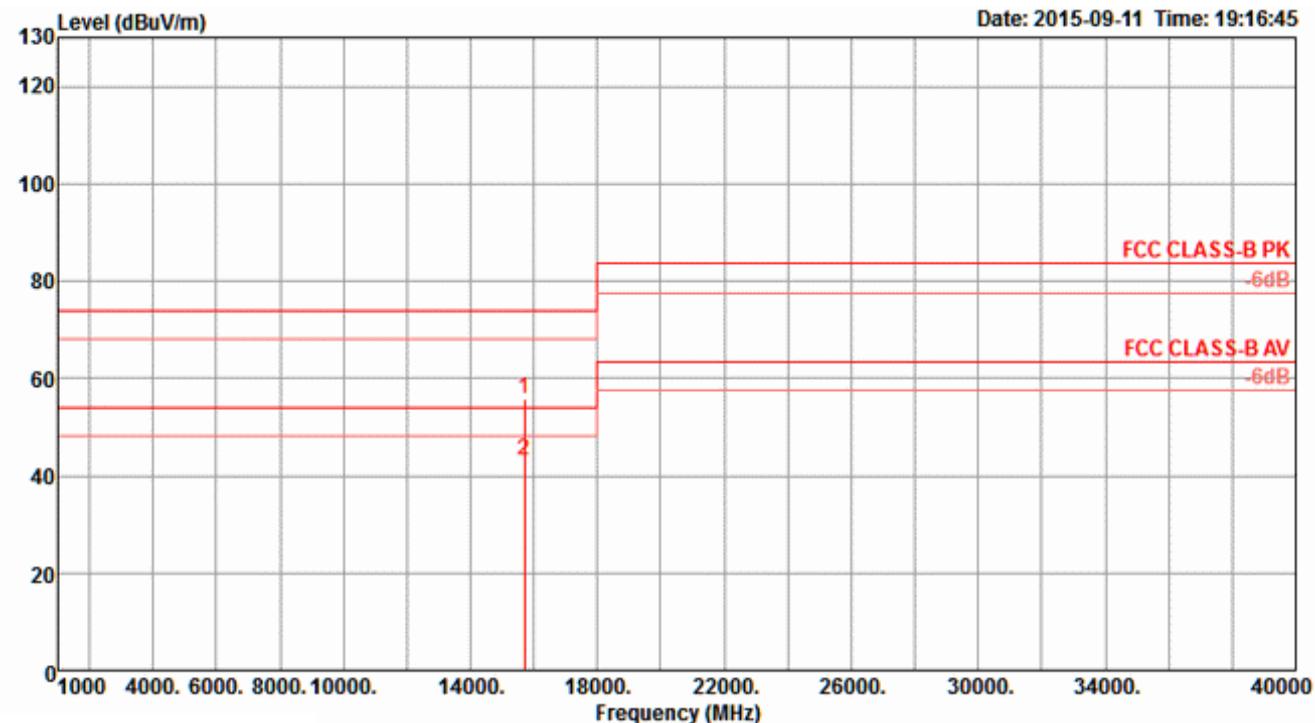
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15599.84	57.03	74.00	-16.97	45.85	7.58	38.29	34.69	251	150 Peak	HORIZONTAL
2	15607.70	43.96	54.00	-10.04	32.78	7.58	38.29	34.69	251	150 Average	HORIZONTAL

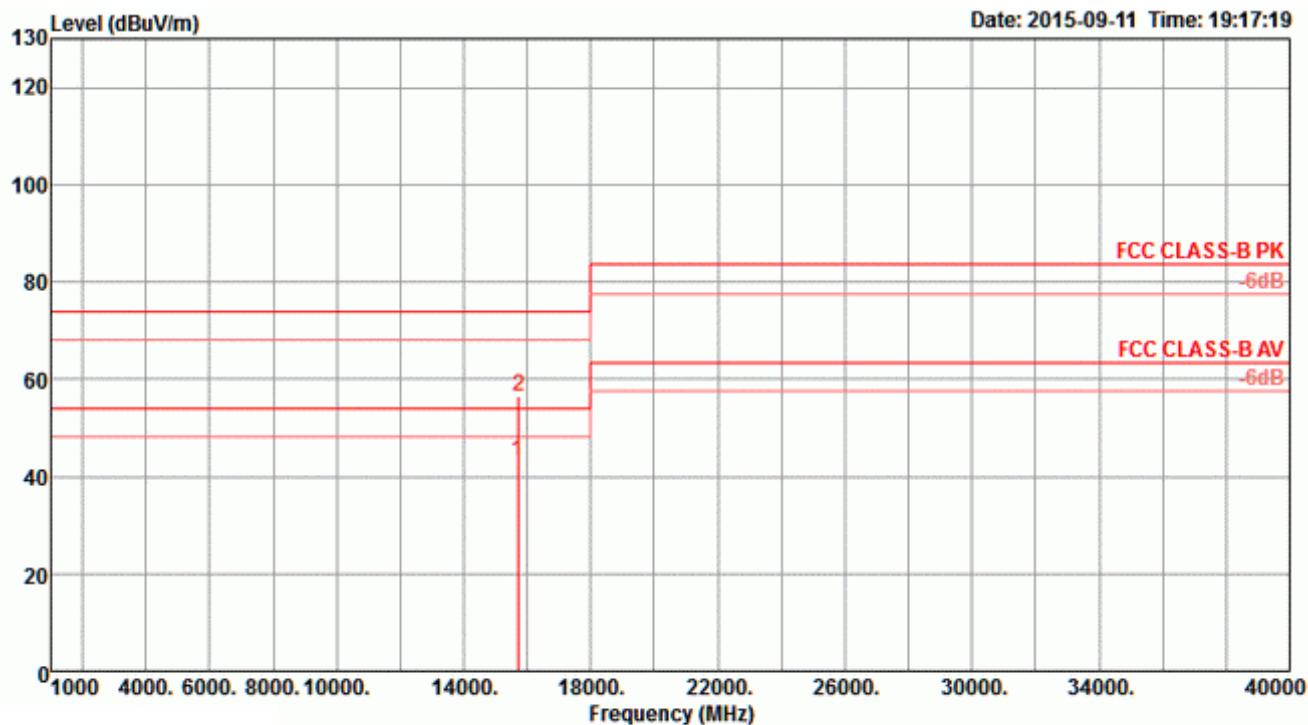
Vertical


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	Cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1	15604.20	56.79	74.00	-17.21	45.61	7.58	38.29	34.69	196	150 Peak	VERTICAL
2	15605.10	43.89	54.00	-10.11	32.71	7.58	38.29	34.69	196	150 Average	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8

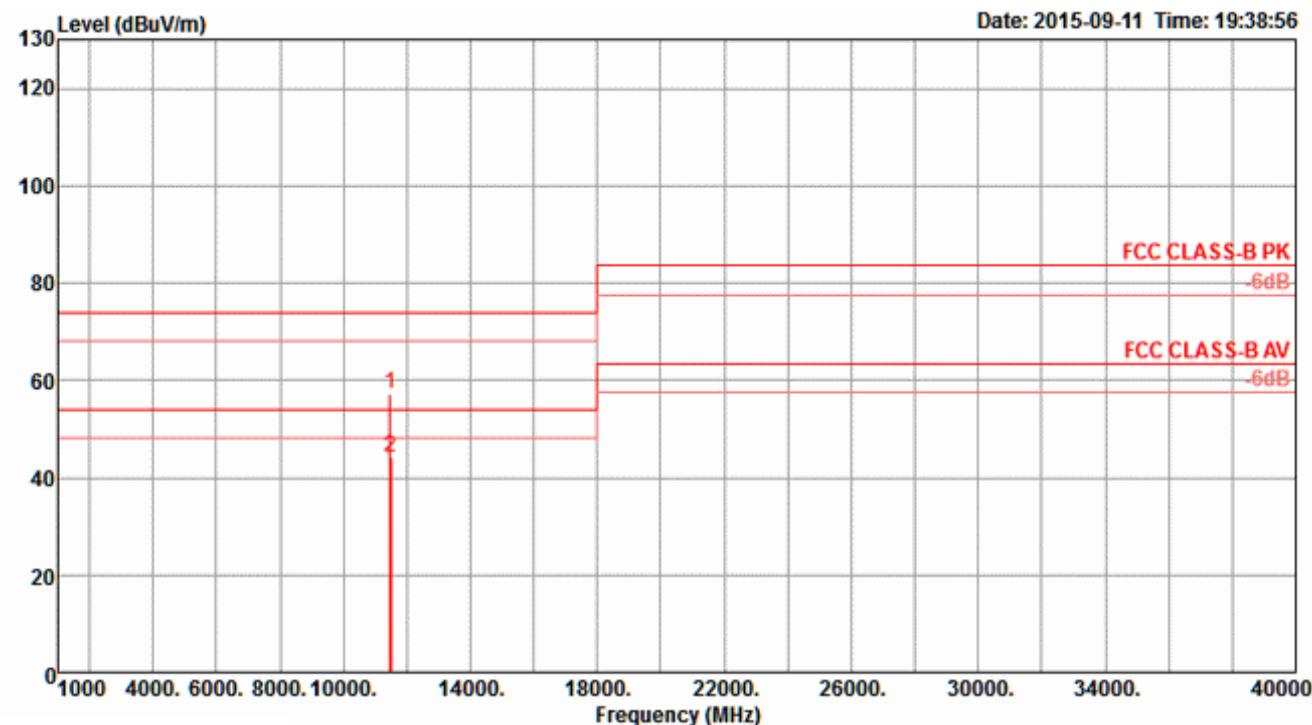
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	cm		
1	15713.00	55.60	74.00	-18.40	44.29	7.62	38.47	34.78	149	150 Peak	HORIZONTAL
2	15714.40	43.14	54.00	-10.86	31.80	7.62	38.50	34.78	149	150 Average	HORIZONTAL

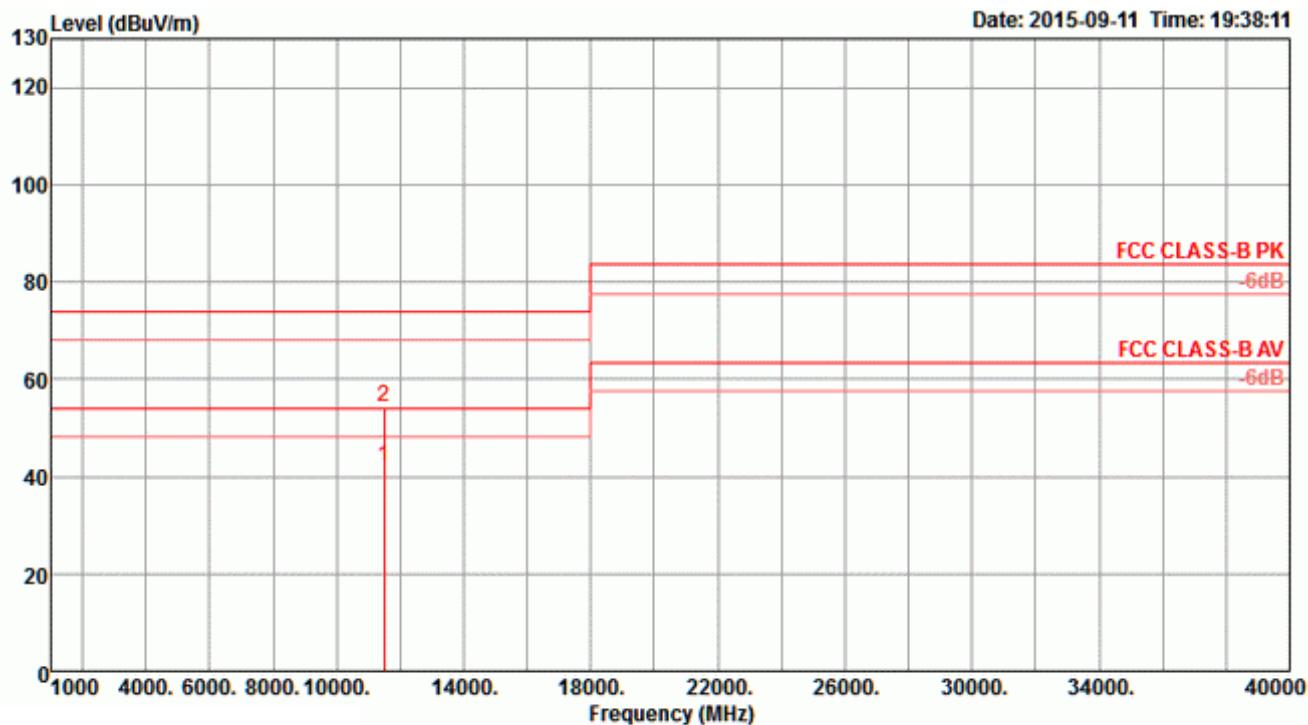
Vertical


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	15711.72	43.12	54.00	-10.88	31.81	7.62	38.47	34.78	243	150 Average	VERTICAL
2	15726.56	56.35	74.00	-17.65	45.03	7.62	38.50	34.80	243	150 Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8

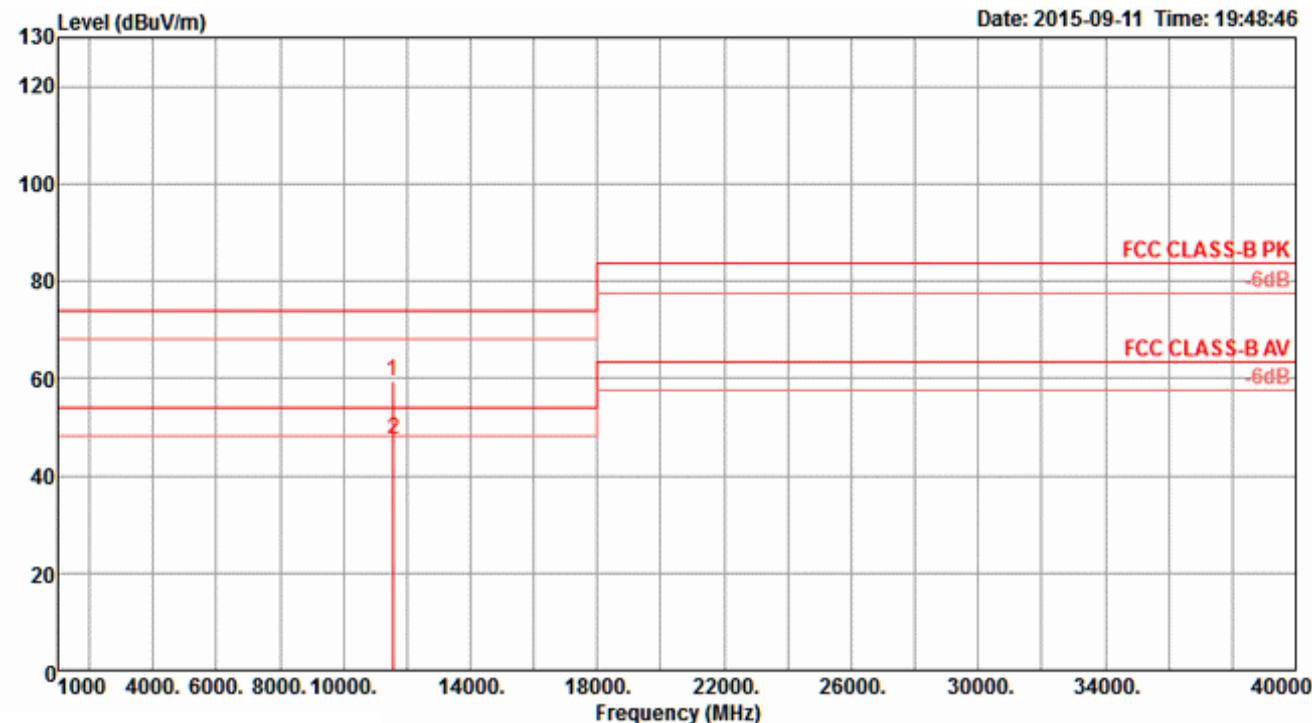
Horizontal


Freq	Level	Limit Line	Over Limit	Read Level	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
					Loss	Factor	Factor	deg	Cm		
11479.50	57.24	74.00	-16.76	46.63	6.53	38.70	34.62	169	150	Peak	HORIZONTAL
11485.50	44.32	54.00	-9.68	33.71	6.53	38.70	34.62	169	150	Average	HORIZONTAL

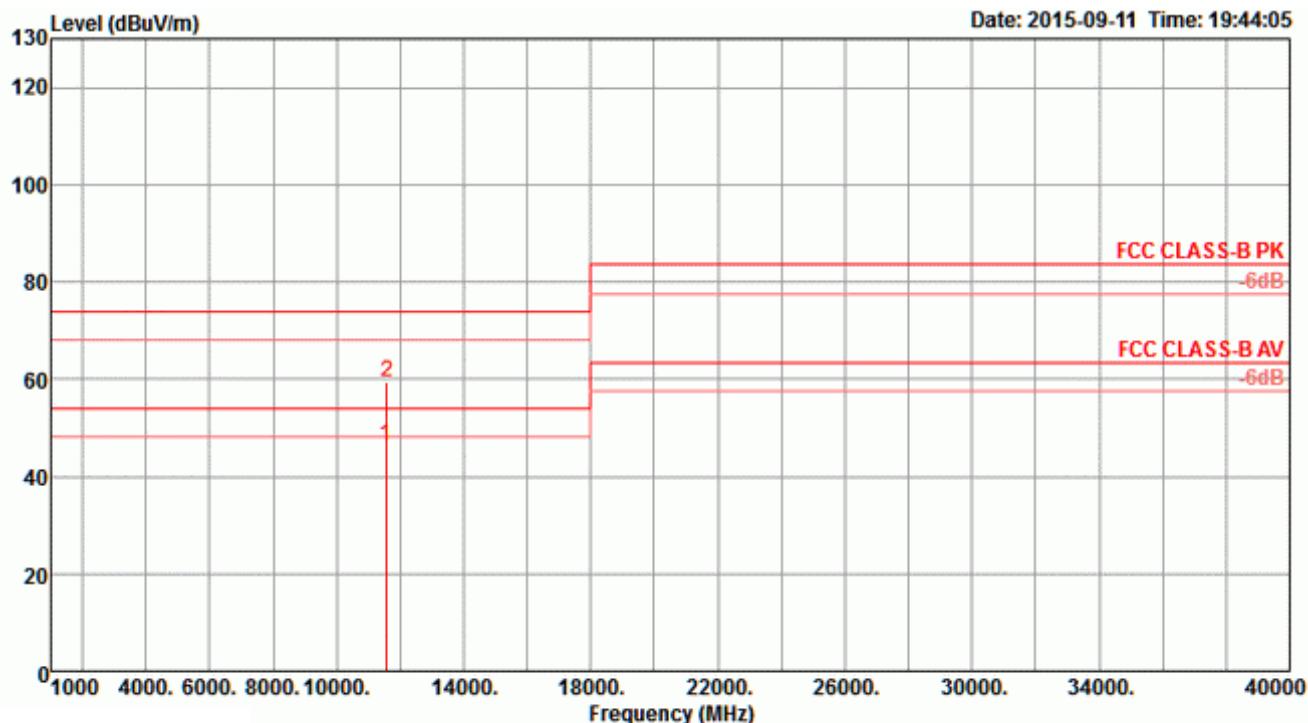
Vertical


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11484.20	42.13	54.00	-11.87	31.52	6.53	38.70	34.62	148	150	Average VERTICAL
2	11499.30	54.17	74.00	-19.83	43.55	6.54	38.70	34.62	148	150	Peak VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8

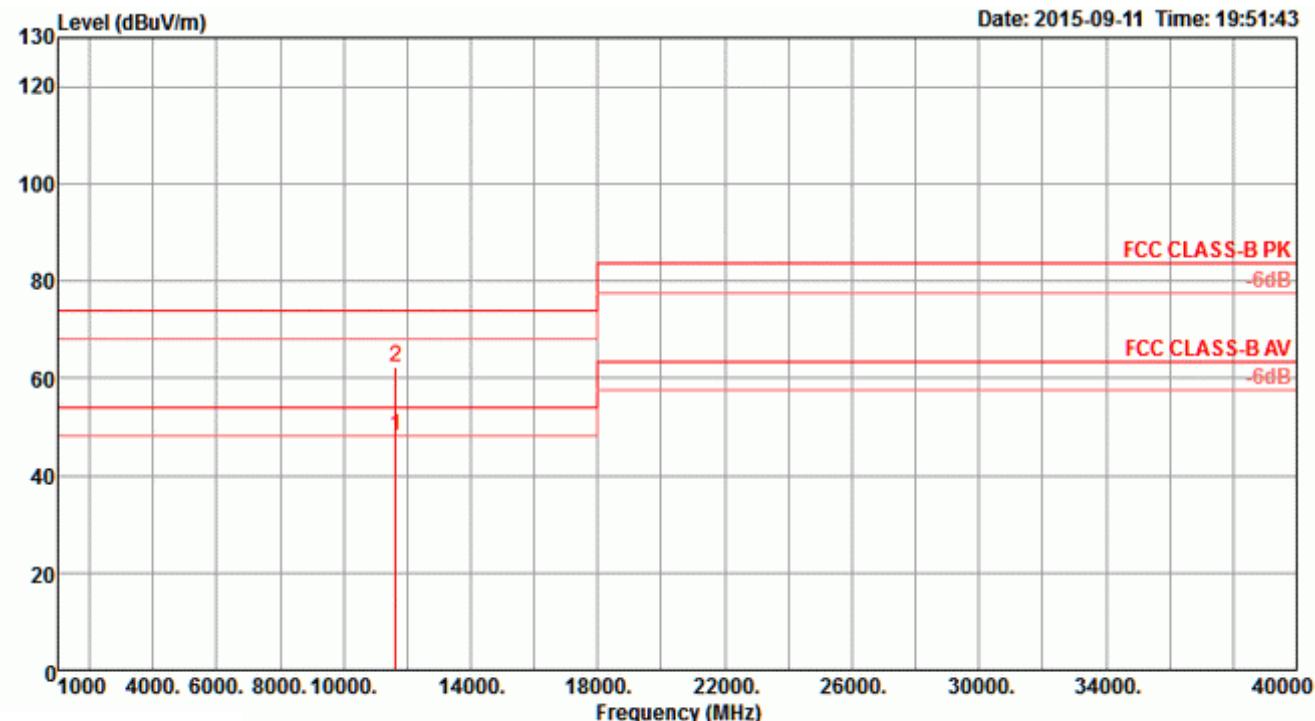
Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	Cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	Cm		
1	11564.60	59.50	74.00	-14.50	48.88	6.55	38.71	34.64	328	153 Peak	HORIZONTAL
2	11566.60	47.32	54.00	-6.68	36.70	6.55	38.71	34.64	328	153 Average	HORIZONTAL

Vertical


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11564.20	46.43	54.00	-7.57	35.81	6.55	38.71	34.64	344	150	Average	VERTICAL
2	11566.60	59.42	74.00	-14.58	48.80	6.55	38.71	34.64	344	150	Peak	VERTICAL

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8

Horizontal


Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11645.80	48.31	54.00	-5.69	37.69	6.56	38.73	34.67	332	153 Average	HORIZONTAL
2	11646.20	62.30	74.00	-11.70	51.68	6.56	38.73	34.67	332	153 Peak	HORIZONTAL