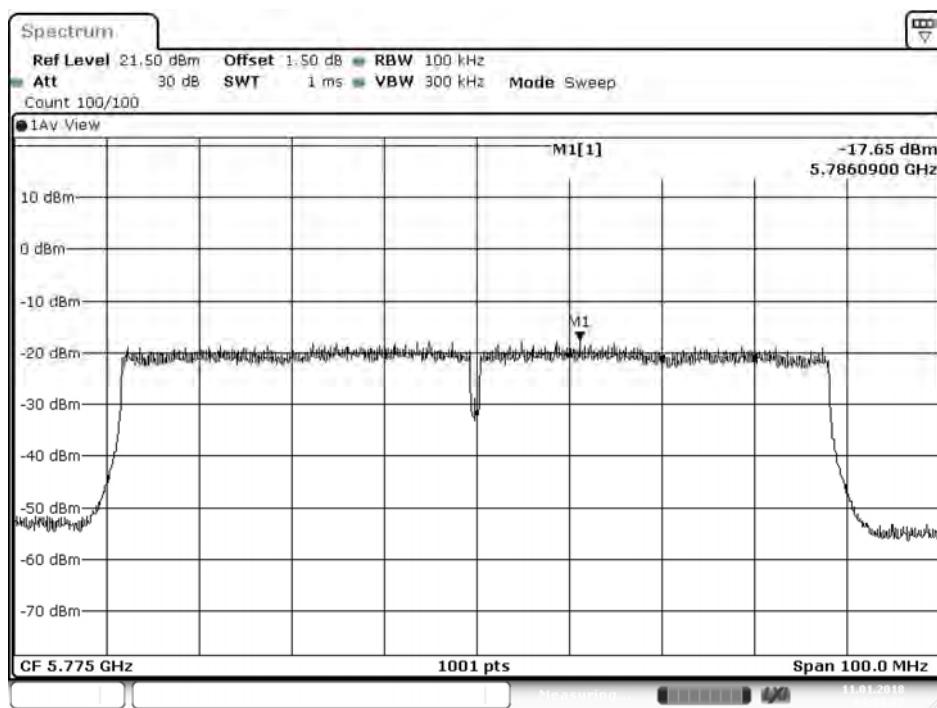


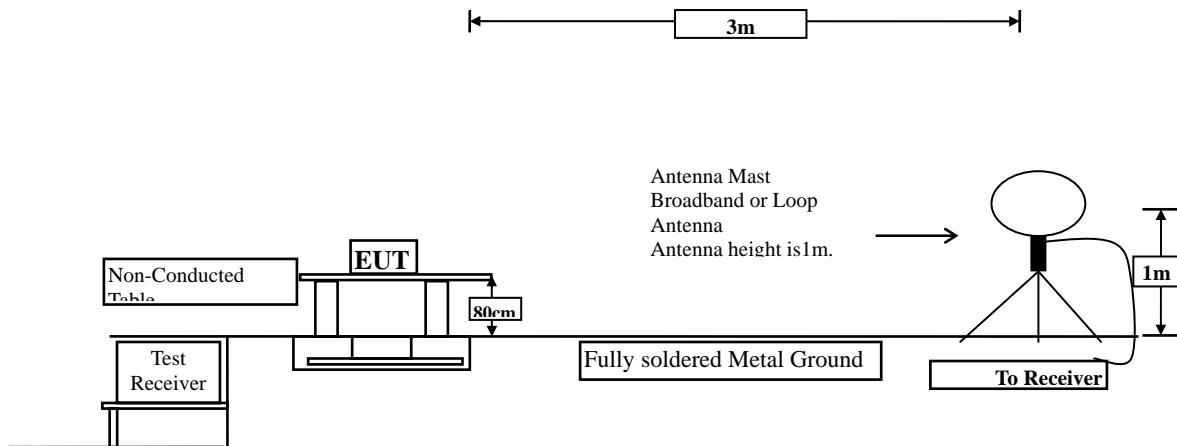
Channel 155 – Chain B



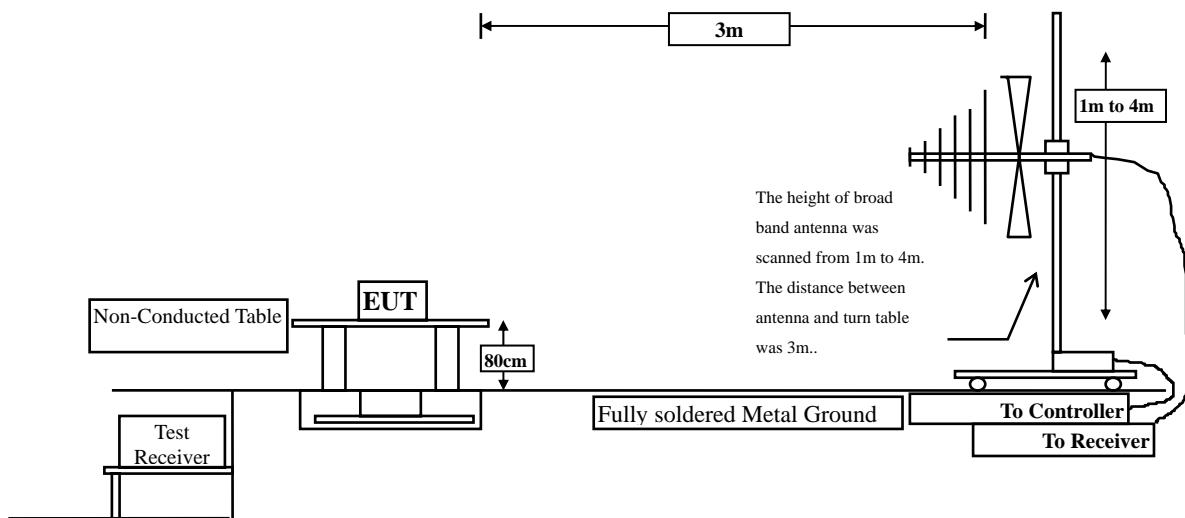
5. Radiated Emission

5.1. Test Setup

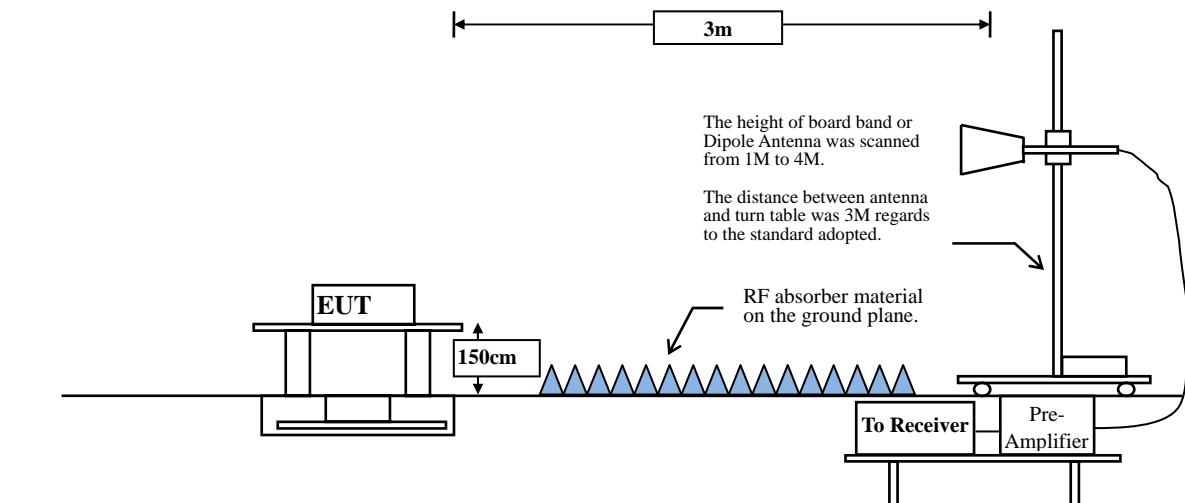
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dB μ V/m) = 20 log E field strength (uV/m)

5.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW \geq 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle \geq 98 %

VBW \geq 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	98.27	--	--	10
802.11n20	96.29	0.9782	1022	2k
802.11n40	93.95	0.4942	2023	3k
802.11ac20	97.42	1.9130	523	1k
802.11ac40	92.70	0.9202	1087	2k
802.11ac80	94.10	0.4623	2163	3k

Note: Duty Cycle Refer to Section 9

5.4. Uncertainty

Horizontal polarization :

30-300MHz: \pm 4.08dB ; 300M-1GHz: \pm 3.86dB ; 1-18GHz: \pm 3.77dB ; 18-40GHz: \pm 3.98dB

Vertical polarization :

30-300MHz: \pm 4.81dB ; 300M-1GHz: \pm 3.87dB ; 1-18GHz : \pm 3.83dB ; 18-40GHz: \pm 3.98dB

5.5. Test Result of Radiated Emission

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5180MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
10360.000	0.102	49.050	49.152	-24.848	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
10360.000	0.102	49.510	49.612	-24.388	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5220MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10440.000	0.149	48.140	48.289	-25.711	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10440.000	0.149	47.390	47.539	-26.461	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5240MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10480.000	0.181	48.060	48.240	-25.760	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10480.000	0.181	47.510	47.690	-26.310	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5260MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
10520.000	0.205	48.010	48.215	-25.785	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
10520.000	0.205	47.350	47.555	-26.445	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5300MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
10600.000	0.378	47.480	47.858	-26.142	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
10600.000	0.378	47.020	47.398	-26.602	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5320MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
10640.000	0.516	47.870	48.387	-25.613	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
10640.000	0.516	47.520	48.037	-25.963	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5500MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11000.000	1.104	46.720	47.824	-26.176	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11000.000	1.104	46.850	47.954	-26.046	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5580MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
11160.000	1.072	47.690	48.762	-25.238	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11160.000	1.072	47.520	48.592	-25.408	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5700MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11400.000	1.388	46.950	48.338	-25.662	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11400.000	1.388	46.510	47.898	-26.102	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11490.000	1.619	46.310	47.929	-26.071	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11490.000	1.619	46.520	48.139	-25.861	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11570.000	1.728	46.020	47.748	-26.252	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11570.000	1.728	46.030	47.758	-26.242	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11650.000	1.846	47.010	48.856	-25.144	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11650.000	1.846	46.980	48.826	-25.174	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5180MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10360.000	0.102	47.820	47.922	-26.078	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10360.000	0.102	48.240	48.342	-25.658	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5220MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10440.000	0.149	47.190	47.339	-26.661	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10440.000	0.149	47.150	47.299	-26.701	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5240MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10480.000	0.181	48.020	48.200	-25.800	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10480.000	0.181	47.840	48.020	-25.980	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5260MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
10520.000	0.205	47.520	47.725	-26.275	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
10520.000	0.205	47.630	47.835	-26.165	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5300MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10600.000	0.378	47.320	47.698	-26.302	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--					54.000
----	--	--	--	--	--------

Vertical

Peak Detector:

10600.000	0.378	47.150	47.528	-26.472	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--					54.000
----	--	--	--	--	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5320MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10640.000	0.516	47.640	48.157	-25.843	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10640.000	0.516	47.540	48.057	-25.943	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5500MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

11000.000	1.104	47.520	48.624	-25.376	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

11000.000	1.104	46.780	47.884	-26.116	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5580MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

11160.000	1.072	47.400	48.472	-25.528	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

11160.000	1.072	47.520	48.592	-25.408	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5700MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11400.000	1.388	47.100	48.488	-25.512	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11400.000	1.388	47.310	48.698	-25.302	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5745MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11490.000	1.619	46.330	47.949	-26.051	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11490.000	1.619	46.350	47.969	-26.031	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5785MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11570.000	1.728	46.960	48.688	-25.312	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11570.000	1.728	46.820	48.548	-25.452	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5825MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11650.000	1.846	47.070	48.916	-25.084	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11650.000	1.846	46.310	48.156	-25.844	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5190MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10380.000	0.131	46.990	47.121	-26.879	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10380.000	0.131	47.070	47.201	-26.799	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5230MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10460.000	0.150	47.320	47.470	-26.530	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10460.000	0.150	47.320	47.470	-26.530	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5270MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10540.000	0.296	47.430	47.726	-26.274	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

10540.000	0.296	47.250	47.546	-26.454	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5310MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

10620.000	0.444	47.380	47.824	-26.176	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--					54.000
----	--	--	--	--	--------

Vertical

Peak Detector:

10620.000	0.444	47.520	47.964	-26.036	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--					54.000
----	--	--	--	--	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5510MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

11020.000	1.101	46.490	47.591	-26.409	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

11020.000	1.101	46.640	47.741	-26.259	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5550MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

11100.000	1.086	46.940	48.026	-25.974	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Vertical

Peak Detector:

11100.000	1.086	46.580	47.666	-26.334	74.000
-----------	-------	--------	--------	---------	--------

Average

Detector:

--	54.000
----	--------

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5670MHz)
 Test Date : 2018/01/12

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

11340.000	1.272	47.620	48.892	-25.108	74.000
-----------	-------	--------	--------	---------	--------

**Average
Detector:**

--	54.000
----	--------

Vertical

Peak Detector:

11340.000	1.272	46.580	47.852	-26.148	74.000
-----------	-------	--------	--------	---------	--------

**Average
Detector:**

--	54.000
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5755MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11510.000	1.620	46.550	48.171	-25.829	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11510.000	1.620	46.310	47.931	-26.069	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5795MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11590.000	1.753	46.390	48.143	-25.857	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11590.000	1.753	46.740	48.493	-25.507	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 4: Transmit (802.11ac-20BW-7.2Mbps) (5720MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11440.000	1.514	45.980	47.494	-26.506	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11440.000	1.514	44.830	46.344	-27.656	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 5: Transmit (802.11ac-40BW-15Mbps) (5710MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11420.000	1.462	45.740	47.202	-26.798	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11420.000	1.462	46.220	47.682	-26.318	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5210MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
10420.000	0.107	46.080	46.187	-27.813	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
10420.000	0.107	46.690	46.797	-27.203	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5290MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
10580.000	0.378	46.570	46.947	-27.053	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
10580.000	0.378	46.480	46.857	-27.143	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5530MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11060.000	1.044	46.250	47.294	-26.706	74.000
Average Detector:					
--					54.000
Vertical					
Peak Detector:					
11060.000	1.044	46.250	47.294	-26.706	74.000
Average Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5610MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11220.000	1.090	46.310	47.400	-26.600	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11220.000	1.090	46.950	48.040	-25.960	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5690MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11380.000	1.377	46.030	47.406	-26.594	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11380.000	1.377	46.010	47.386	-26.614	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : Harmonic Radiated Emission Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)
 Test Date : 2018/01/12

Frequency MHz	Correct Factor	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
11550.000	1.718	45.790	47.508	-26.492	74.000
Average					
Detector:					
--					54.000
Vertical					
Peak Detector:					
11550.000	1.718	46.230	47.948	-26.052	74.000
Average					
Detector:					
--					54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5220MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
167.768	-10.766	53.355	42.589	-0.911	43.500
249.304	-11.645	55.494	43.849	-2.151	46.000
299.913	-9.902	54.738	44.836	-1.164	46.000
649.957	-2.629	47.790	45.161	-0.839	46.000
800.377	-0.321	44.728	44.408	-1.592	46.000
850.986	0.328	43.882	44.211	-1.789	46.000
Vertical					
Peak Detector					
52.493	-11.075	47.235	36.159	-3.841	40.000
63.739	-12.434	51.367	38.933	-1.067	40.000
374.420	-8.063	51.710	43.647	-2.353	46.000
624.652	-2.848	45.231	42.383	-3.617	46.000
649.957	-2.629	47.433	44.804	-1.196	46.000
900.188	0.934	43.341	44.275	-1.725	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5300MHz)
 Test Date : 2018/02/02

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector					
124.188	-12.577	51.674	39.097	-4.403	43.500
263.362	-11.221	53.986	42.765	-3.235	46.000
649.957	-2.629	47.143	44.514	-1.486	46.000
800.377	-0.321	45.133	44.813	-1.187	46.000
850.986	0.328	43.015	43.344	-2.656	46.000
900.188	0.934	40.594	41.528	-4.472	46.000
Vertical					
Peak Detector					
52.493	-11.075	47.438	36.362	-3.638	40.000
62.333	-12.205	49.551	37.345	-2.655	40.000
200.101	-13.473	52.954	39.480	-4.020	43.500
374.420	-8.063	50.021	41.958	-4.042	46.000
700.565	-1.650	46.611	44.961	-1.039	46.000
900.188	0.934	43.365	44.299	-1.701	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5580MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
167.768	-10.766	52.545	41.779	-1.721	43.500
249.304	-11.645	55.952	44.307	-1.693	46.000
299.913	-9.902	54.996	45.094	-0.906	46.000
649.957	-2.629	47.443	44.814	-1.186	46.000
800.377	-0.321	44.251	43.931	-2.069	46.000
850.986	0.328	44.732	45.061	-0.939	46.000
Vertical					
Peak Detector					
52.493	-11.075	49.658	38.582	-1.418	40.000
374.420	-8.063	51.098	43.035	-2.965	46.000
624.652	-2.848	45.562	42.714	-3.286	46.000
649.957	-2.629	47.781	45.152	-0.848	46.000
850.986	0.328	39.959	40.288	-5.712	46.000
900.188	0.934	43.154	44.088	-1.912	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
167.768	-10.766	52.943	42.177	-1.323	43.500
249.304	-11.645	55.068	43.423	-2.577	46.000
299.913	-9.902	54.573	44.671	-1.329	46.000
649.957	-2.629	47.198	44.569	-1.431	46.000
800.377	-0.321	43.237	42.917	-3.083	46.000
850.986	0.328	43.056	43.385	-2.615	46.000
Vertical					
Peak Detector					
52.493	-11.075	49.669	38.593	-1.407	40.000
63.739	-12.434	51.912	39.478	-0.522	40.000
374.420	-8.063	51.029	42.966	-3.034	46.000
624.652	-2.848	45.515	42.667	-3.333	46.000
649.957	-2.629	47.806	45.177	-0.823	46.000
900.188	0.934	43.540	44.474	-1.526	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5220MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
107.319	-14.581	57.793	43.212	-0.288	43.500
167.768	-10.766	53.663	42.897	-0.603	43.500
249.304	-11.645	55.283	43.638	-2.362	46.000
299.913	-9.902	54.679	44.777	-1.223	46.000
649.957	-2.629	47.092	44.463	-1.537	46.000
800.377	-0.321	44.098	43.778	-2.222	46.000
Vertical					
Peak Detector					
52.493	-11.075	48.047	36.971	-3.029	40.000
374.420	-8.063	52.876	44.813	-1.187	46.000
624.652	-2.848	45.148	42.300	-3.700	46.000
649.957	-2.629	47.951	45.322	-0.678	46.000
800.377	-0.321	41.801	41.481	-4.519	46.000
900.188	0.934	43.415	44.349	-1.651	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5300MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector

104.507	-15.080	57.711	42.631	-0.869	43.500
167.768	-10.766	53.219	42.453	-1.047	43.500
299.913	-9.902	54.881	44.979	-1.021	46.000
649.957	-2.629	46.993	44.364	-1.636	46.000
800.377	-0.321	44.513	44.193	-1.807	46.000
850.986	0.328	43.637	43.966	-2.034	46.000

Vertical

Peak Detector

52.493	-11.075	50.369	39.293	-0.707	40.000
374.420	-8.063	51.288	43.225	-2.775	46.000
624.652	-2.848	45.602	42.754	-3.246	46.000
649.957	-2.629	47.612	44.983	-1.017	46.000
850.986	0.328	40.691	41.020	-4.980	46.000
900.188	0.934	43.730	44.664	-1.336	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5580MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
83.420	-15.957	54.694	38.738	-1.262	40.000
167.768	-10.766	53.333	42.567	-0.933	43.500
249.304	-11.645	55.143	43.498	-2.502	46.000
299.913	-9.902	54.588	44.686	-1.314	46.000
649.957	-2.629	47.158	44.529	-1.471	46.000
800.377	-0.321	45.245	44.925	-1.075	46.000
Vertical					
Peak Detector					
52.493	-11.075	47.857	36.781	-3.219	40.000
374.420	-8.063	51.161	43.098	-2.902	46.000
624.652	-2.848	45.344	42.496	-3.504	46.000
649.957	-2.629	48.015	45.386	-0.614	46.000
850.986	0.328	40.326	40.655	-5.345	46.000
900.188	0.934	43.263	44.197	-1.803	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5785MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
83.420	-15.957	53.915	37.959	-2.041	40.000
167.768	-10.766	52.852	42.086	-1.414	43.500
249.304	-11.645	56.080	44.435	-1.565	46.000
299.913	-9.902	54.308	44.406	-1.594	46.000
649.957	-2.629	47.625	44.996	-1.004	46.000
800.377	-0.321	44.172	43.852	-2.148	46.000
Vertical					
Peak Detector					
52.493	-11.075	49.635	38.559	-1.441	40.000
62.333	-12.205	50.460	38.254	-1.746	40.000
200.101	-13.473	55.449	41.975	-1.525	43.500
649.957	-2.629	43.076	40.447	-5.553	46.000
850.986	0.328	40.074	40.403	-5.597	46.000
900.188	0.934	42.393	43.327	-2.673	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5190MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector

107.319	-14.581	56.571	41.990	-1.510	43.500
167.768	-10.766	53.015	42.249	-1.251	43.500
249.304	-11.645	54.955	43.310	-2.690	46.000
299.913	-9.902	54.048	44.146	-1.854	46.000
649.957	-2.629	47.107	44.478	-1.522	46.000
850.986	0.328	43.929	44.258	-1.742	46.000

Vertical

Peak Detector

52.493	-11.075	48.412	37.336	-2.664	40.000
374.420	-8.063	50.730	42.667	-3.333	46.000
624.652	-2.848	45.402	42.554	-3.446	46.000
649.957	-2.629	47.369	44.740	-1.260	46.000
850.986	0.328	40.614	40.943	-5.057	46.000
900.188	0.934	43.707	44.641	-1.359	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5310MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector

107.319	-14.581	56.875	42.294	-1.206	43.500
167.768	-10.766	52.945	42.179	-1.321	43.500
299.913	-9.902	54.663	44.761	-1.239	46.000
649.957	-2.629	47.574	44.945	-1.055	46.000
800.377	-0.321	44.952	44.632	-1.368	46.000
850.986	0.328	43.922	44.251	-1.749	46.000

Vertical

Peak Detector

42.652	-10.960	48.177	37.217	-2.783	40.000
62.333	-12.205	47.041	34.835	-5.165	40.000
200.101	-13.473	56.750	43.276	-0.224	43.500
749.768	-0.883	46.390	45.507	-0.493	46.000
850.986	0.328	40.229	40.558	-5.442	46.000
900.188	0.934	42.939	43.873	-2.127	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5550MHz)
 Test Date : 2018/02/02

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector					
107.319	-14.581	57.038	42.457	-1.043	43.500
167.768	-10.766	53.624	42.858	-0.642	43.500
299.913	-9.902	55.080	45.178	-0.822	46.000
649.957	-2.629	47.527	44.898	-1.102	46.000
800.377	-0.321	44.727	44.407	-1.593	46.000
850.986	0.328	44.737	45.066	-0.934	46.000
Vertical					
Peak Detector					
52.493	-11.075	50.708	39.632	-0.368	40.000
374.420	-8.063	50.884	42.821	-3.179	46.000
624.652	-2.848	45.190	42.342	-3.658	46.000
649.957	-2.629	47.092	44.463	-1.537	46.000
850.986	0.328	40.514	40.843	-5.157	46.000
900.188	0.934	43.715	44.649	-1.351	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5755MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
104.507	-15.080	56.868	41.788	-1.712	43.500
167.768	-10.766	53.142	42.376	-1.124	43.500
249.304	-11.645	55.432	43.787	-2.213	46.000
299.913	-9.902	54.643	44.741	-1.259	46.000
649.957	-2.629	48.109	45.480	-0.520	46.000
850.986	0.328	44.894	45.223	-0.777	46.000
Vertical					
Peak Detector					
52.493	-11.075	50.383	39.307	-0.693	40.000
63.739	-12.434	51.386	38.952	-1.048	40.000
374.420	-8.063	50.670	42.607	-3.393	46.000
624.652	-2.848	45.723	42.875	-3.125	46.000
649.957	-2.629	47.712	45.083	-0.917	46.000
900.188	0.934	43.441	44.375	-1.625	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 4: Transmit (802.11ac-20BW-7.2Mbps) (5720MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
83.420	-15.957	54.842	38.886	-1.114	40.000
167.768	-10.766	53.472	42.706	-0.794	43.500
249.304	-11.645	55.740	44.095	-1.905	46.000
299.913	-9.902	54.617	44.715	-1.285	46.000
649.957	-2.629	47.578	44.949	-1.051	46.000
850.986	0.328	43.293	43.622	-2.378	46.000
Vertical					
Peak Detector					
52.493	-11.075	50.013	38.937	-1.063	40.000
60.928	-11.978	51.506	39.529	-0.471	40.000
374.420	-8.063	50.520	42.457	-3.543	46.000
624.652	-2.848	45.626	42.778	-3.222	46.000
649.957	-2.629	47.856	45.227	-0.773	46.000
900.188	0.934	43.022	43.956	-2.044	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 5: Transmit (802.11ac-40BW-15Mbps) (5710MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
167.768	-10.766	52.520	41.754	-1.746	43.500
249.304	-11.645	56.616	44.971	-1.029	46.000
299.913	-9.902	54.806	44.904	-1.096	46.000
649.957	-2.629	47.590	44.961	-1.039	46.000
800.377	-0.321	45.264	44.944	-1.056	46.000
850.986	0.328	43.620	43.949	-2.051	46.000
Vertical					
Peak Detector					
52.493	-11.075	50.937	39.861	-0.139	40.000
84.826	-16.228	53.148	36.920	-3.080	40.000
374.420	-8.063	50.913	42.850	-3.150	46.000
624.652	-2.848	45.449	42.601	-3.399	46.000
649.957	-2.629	47.421	44.792	-1.208	46.000
900.188	0.934	43.616	44.550	-1.450	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5210MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector

107.319	-14.581	57.704	43.123	-0.377	43.500
167.768	-10.766	52.265	41.499	-2.001	43.500
249.304	-11.645	55.255	43.610	-2.390	46.000
299.913	-9.902	54.389	44.487	-1.513	46.000
649.957	-2.629	47.651	45.022	-0.978	46.000
800.377	-0.321	44.662	44.342	-1.658	46.000

Vertical

Peak Detector

52.493	-11.075	50.926	39.850	-0.150	40.000
62.333	-12.205	51.554	39.348	-0.652	40.000
374.420	-8.063	50.661	42.598	-3.402	46.000
624.652	-2.848	46.424	43.576	-2.424	46.000
649.957	-2.629	47.573	44.944	-1.056	46.000
900.188	0.934	43.360	44.294	-1.706	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5290MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
167.768	-10.766	53.518	42.752	-0.748	43.500
249.304	-11.645	55.956	44.311	-1.689	46.000
299.913	-9.902	54.829	44.927	-1.073	46.000
649.957	-2.629	47.375	44.746	-1.254	46.000
800.377	-0.321	44.767	44.447	-1.553	46.000
850.986	0.328	44.475	44.804	-1.196	46.000
 Vertical					
Peak Detector					
74.986	-14.362	50.965	36.603	-3.397	40.000
374.420	-8.063	50.702	42.639	-3.361	46.000
624.652	-2.848	45.380	42.532	-3.468	46.000
649.957	-2.629	47.887	45.258	-0.742	46.000
850.986	0.328	41.222	41.551	-4.449	46.000
900.188	0.934	43.336	44.270	-1.730	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5610MHz)
 Test Date : 2018/02/02

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector					
107.319	-14.581	57.562	42.981	-0.519	43.500
167.768	-10.766	52.806	42.040	-1.460	43.500
299.913	-9.902	55.308	45.406	-0.594	46.000
649.957	-2.629	47.323	44.694	-1.306	46.000
800.377	-0.321	43.988	43.668	-2.332	46.000
850.986	0.328	43.014	43.343	-2.657	46.000
Vertical					
Peak Detector					
76.391	-14.621	51.512	36.892	-3.108	40.000
374.420	-8.063	50.625	42.562	-3.438	46.000
624.652	-2.848	45.633	42.785	-3.215	46.000
649.957	-2.629	47.642	45.013	-0.987	46.000
850.986	0.328	40.535	40.864	-5.136	46.000
900.188	0.934	43.241	44.175	-1.825	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Network Appliance
 Test Item : General Radiated Emission
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)
 Test Date : 2018/02/02

Frequency MHz	Correct Factor	Reading Level dB	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector					
83.420	-15.957	54.179	38.223	-1.777	40.000
167.768	-10.766	52.980	42.214	-1.286	43.500
249.304	-11.645	57.347	45.702	-0.298	46.000
299.913	-9.902	54.478	44.576	-1.424	46.000
649.957	-2.629	47.362	44.733	-1.267	46.000
800.377	-0.321	45.315	44.995	-1.005	46.000
Vertical					
Peak Detector					
74.986	-14.362	50.746	36.384	-3.616	40.000
374.420	-8.063	50.603	42.540	-3.460	46.000
624.652	-2.848	45.498	42.650	-3.350	46.000
649.957	-2.629	47.644	45.015	-0.985	46.000
850.986	0.328	40.375	40.704	-5.296	46.000
900.188	0.934	43.190	44.124	-1.876	46.000

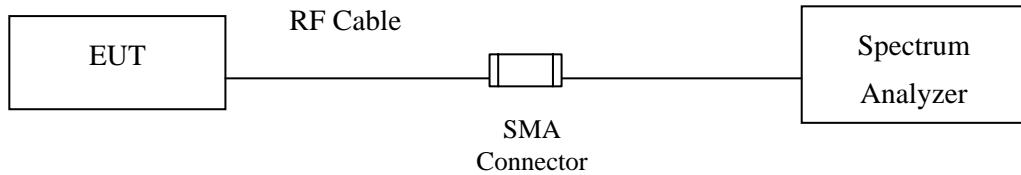
Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

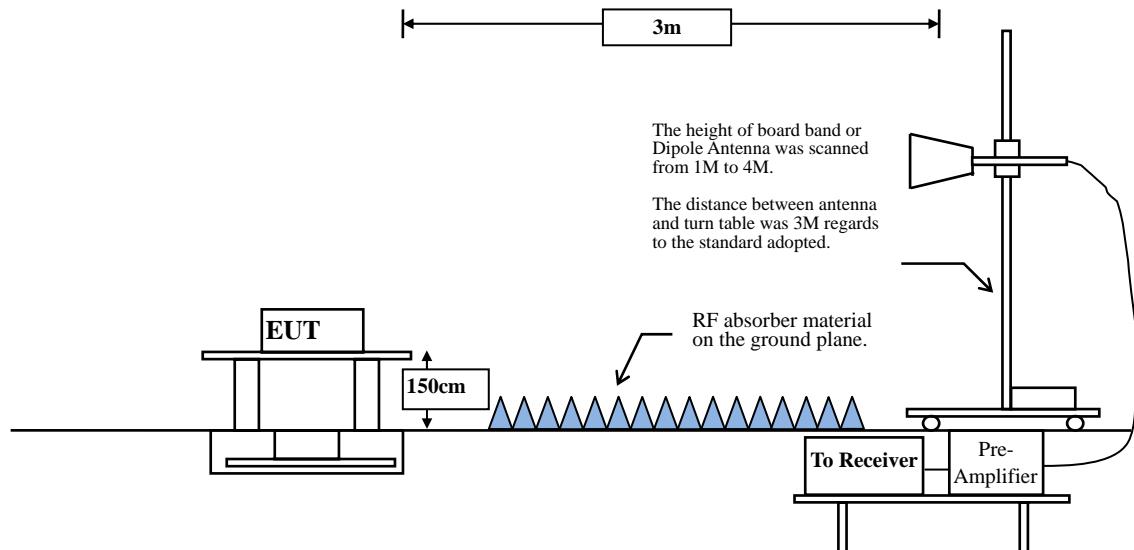
6. Band Edge

6.1. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



6.2. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dB μ V/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dB μ V) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

6.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW \geq 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle \geq 98 %

VBW \geq 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	98.27	--	--	10
802.11n20	96.29	0.9782	1022	2k
802.11n40	93.95	0.4942	2023	3k
802.11ac20	97.42	1.9130	523	1k
802.11ac40	92.70	0.9202	1087	2k
802.11ac80	94.10	0.4623	2163	3k

Note: Duty Cycle Refer to Section 9

6.4. Uncertainty

Conducted: ± 1.23 dB

Radiated:

Horizontal polarization : 1-18GHz: ± 3.77 dB

Vertical polarization : 1-18GHz : ± 3.83 dB

6.5. Test Result of Band Edge

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5180MHz)
 Test Date : 2018/01/09

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
36 (Peak)	5150.000	18.335	47.540	65.874	74.00	54.00	Pass
36 (Peak)	5184.783	18.416	94.801	113.217	--	--	--
36 (Average)	5150.000	18.335	30.190	48.524	74.00	54.00	Pass
36 (Average)	5184.638	18.416	83.849	102.265	--	--	--

Figure Channel 36:

Horizontal (Peak)

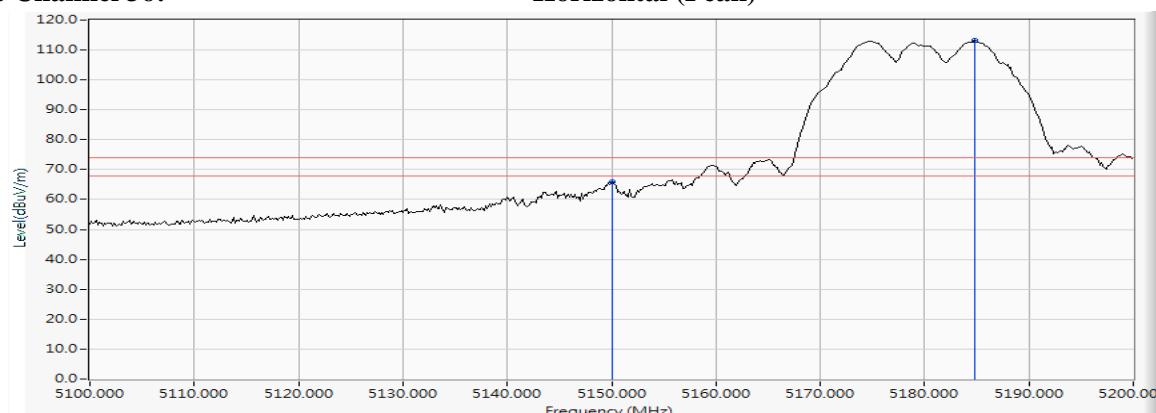
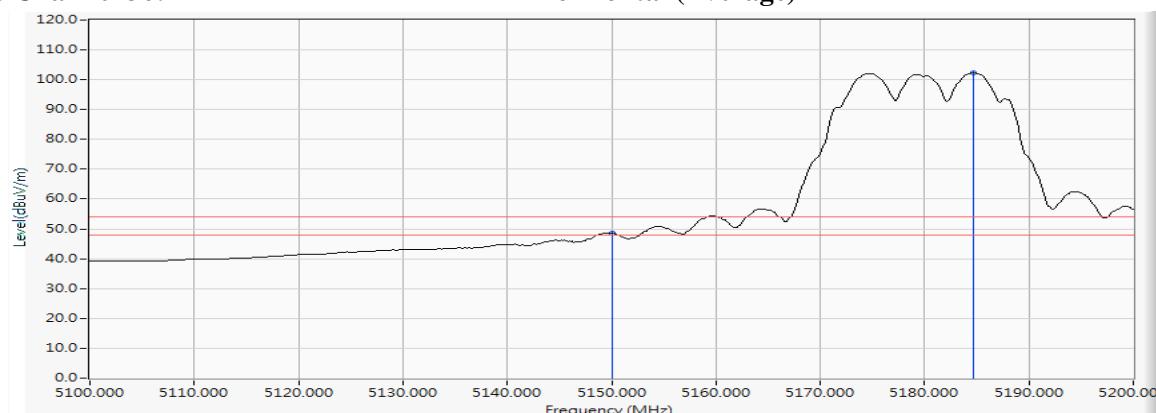


Figure Channel 36:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5180MHz)
 Test Date : 2018/01/09

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
36 (Peak)	5149.855	18.334	38.145	56.479	74.00	54.00	Pass
36 (Peak)	5150.000	18.335	37.410	55.744	74.00	54.00	Pass
36 (Peak)	5173.768	18.385	84.554	102.939	--	--	--
36 (Average)	5149.130	18.331	21.495	39.826	74.00	54.00	Pass
36 (Average)	5150.000	18.335	21.423	39.757	74.00	54.00	Pass
36 (Average)	5173.913	18.385	74.019	92.404	--	--	--

Figure Channel 36:

Vertical (Peak)

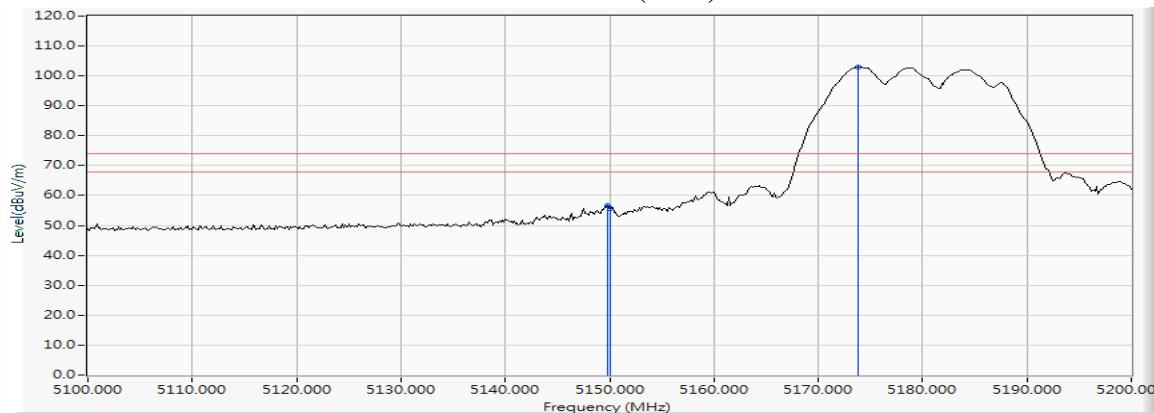
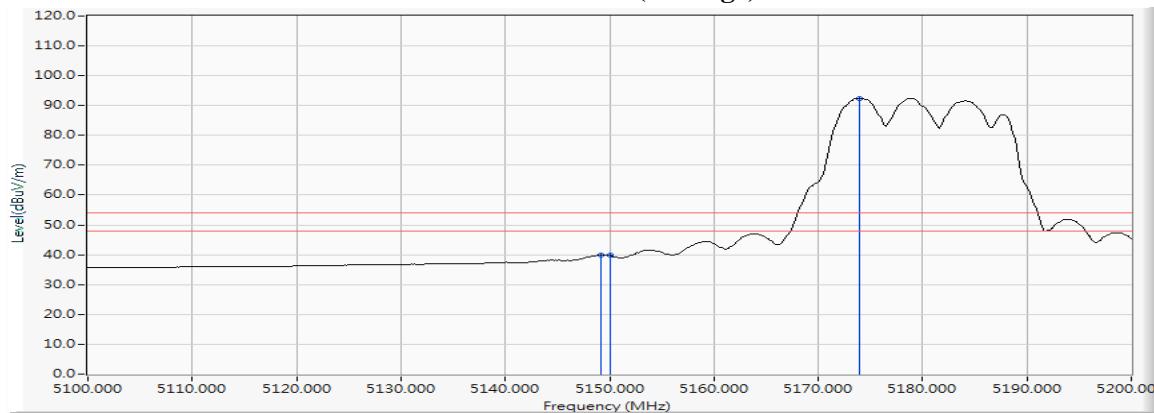


Figure Channel 36:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5320MHz)
 Test Date : 2018/01/09

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
64 (Peak)	5314.638	18.731	94.603	113.334	--	--	--
64 (Peak)	5350.000	18.833	41.864	60.697	74.00	54.00	Pass
64 (Peak)	5350.145	18.832	42.445	61.278	74.00	54.00	Pass
64 (Average)	5314.638	18.731	83.688	102.419	--	--	--
64 (Average)	5350.000	18.833	27.389	46.222	74.00	54.00	Pass

Figure Channel 64:

Horizontal (Peak)

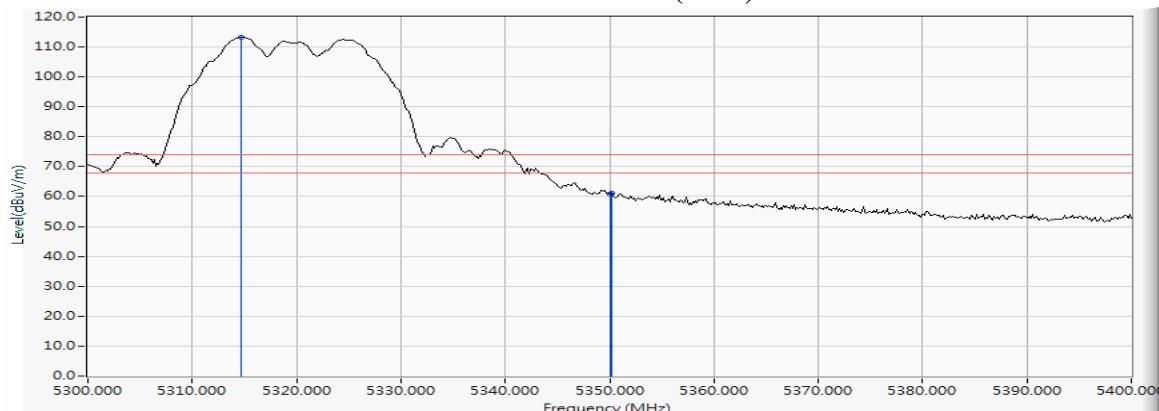
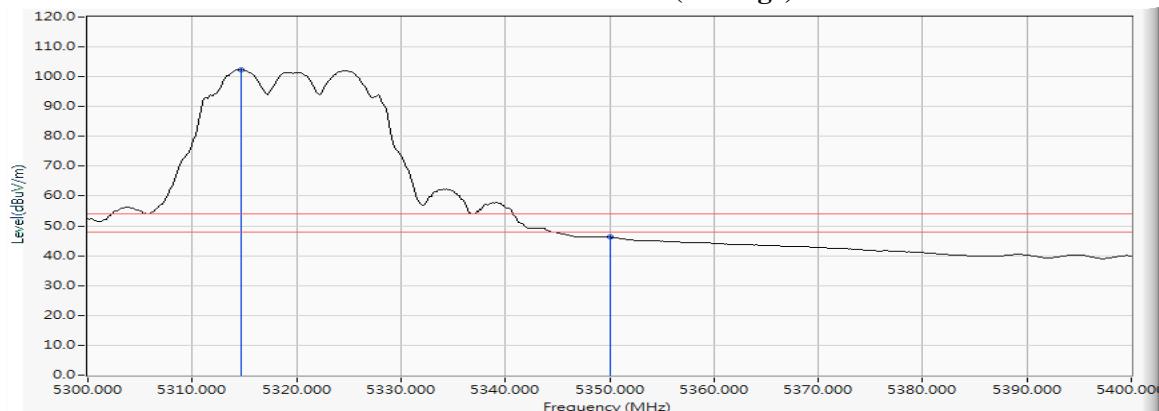


Figure Channel 64:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5320MHz)
 Test Date : 2018/01/09

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
64 (Peak)	5314.638	18.731	84.546	103.277	--	--	--
64 (Peak)	5350.000	18.833	34.517	53.350	74.00	54.00	Pass
64 (Peak)	5352.899	18.837	34.591	53.427	74.00	54.00	Pass
64 (Average)	5314.203	18.730	73.889	92.619	--	--	--
64 (Average)	5350.000	18.833	20.313	39.146	74.00	54.00	Pass

Figure Channel 64:

Vertical (Peak)

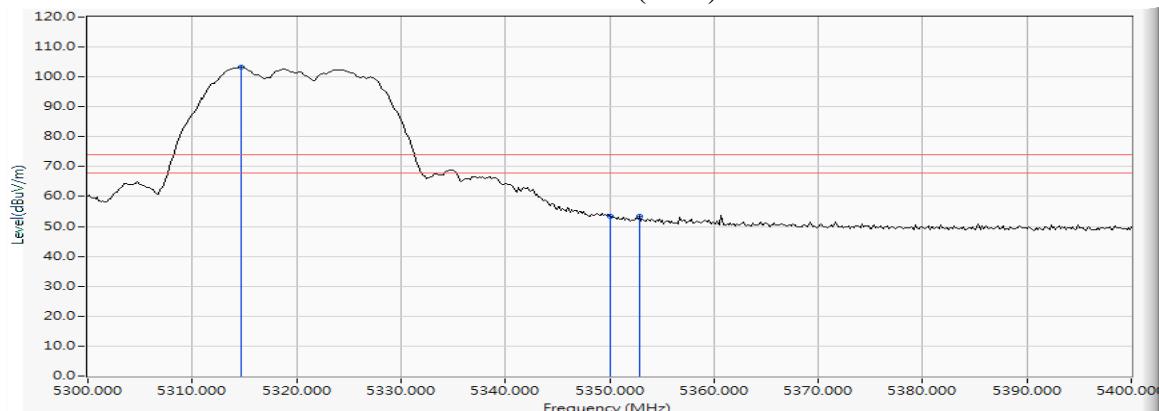
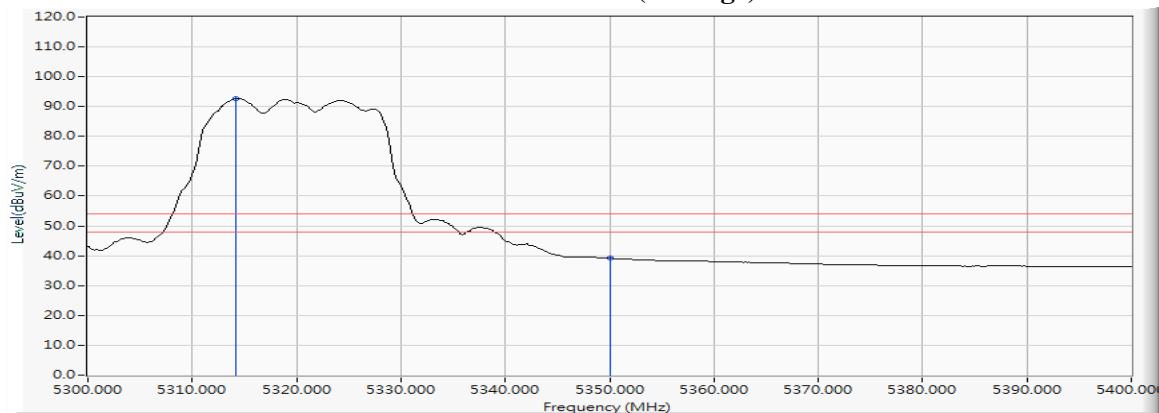


Figure Channel 64:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
100 (Peak)	5455.362	19.086	40.310	59.397	74.00	54.00	Pass
100 (Peak)	5460.000	19.097	38.734	57.831	74.00	54.00	Pass
100 (Peak)	5494.783	19.189	90.591	109.780	--	--	--
100 (Average)	5459.710	19.097	24.649	43.746	74.00	54.00	Pass
100 (Average)	5460.000	19.097	24.630	43.727	74.00	54.00	Pass
100 (Average)	5494.783	19.189	79.770	98.959	--	--	--

Figure Channel 100:

Horizontal (Peak)

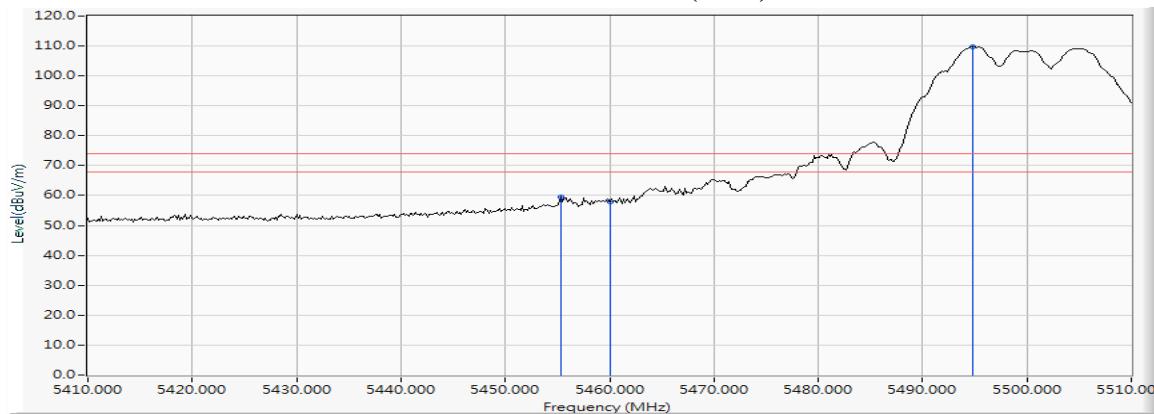
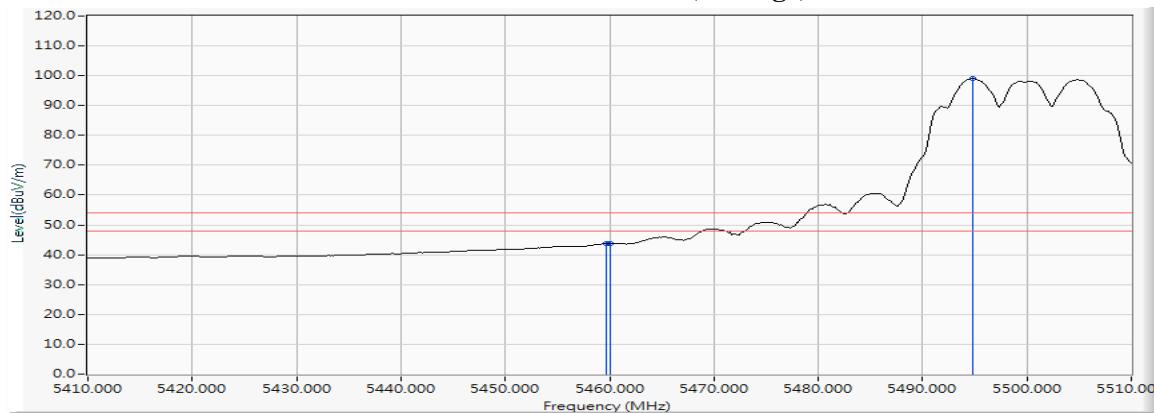


Figure Channel 100:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
100 (Peak)	5456.812	19.093	32.673	51.766	74.00	54.00	Pass
100 (Peak)	5460.000	19.097	31.017	50.114	74.00	54.00	Pass
100 (Peak)	5498.551	19.193	80.561	99.753	--	--	--
100 (Average)	5460.000	19.097	18.275	37.372	74.00	54.00	Pass
100 (Average)	5498.406	19.192	69.968	89.160	--	--	--

Figure Channel 100:

Vertical (Peak)

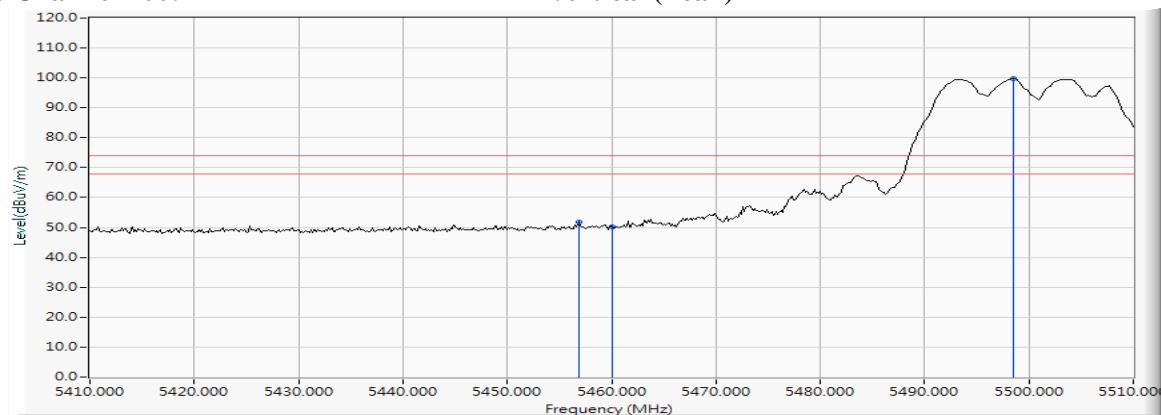
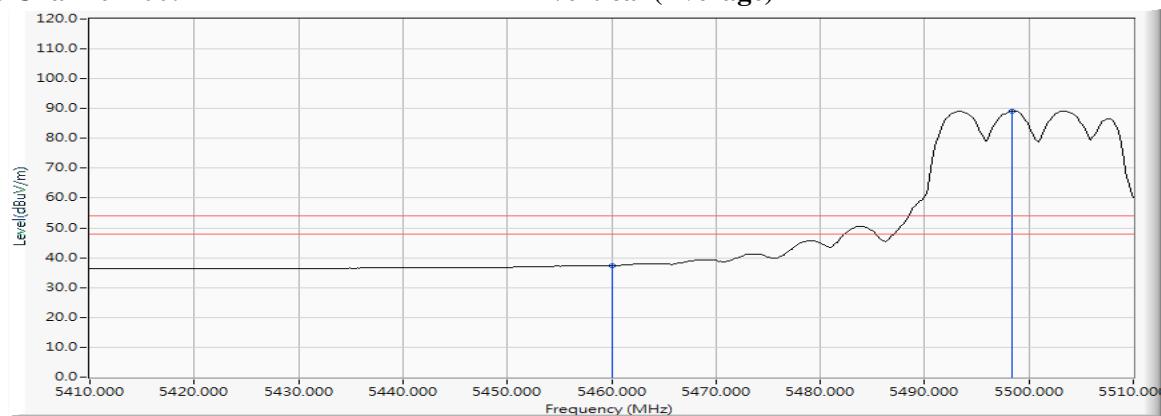


Figure Channel 100:

Vertical (Average)



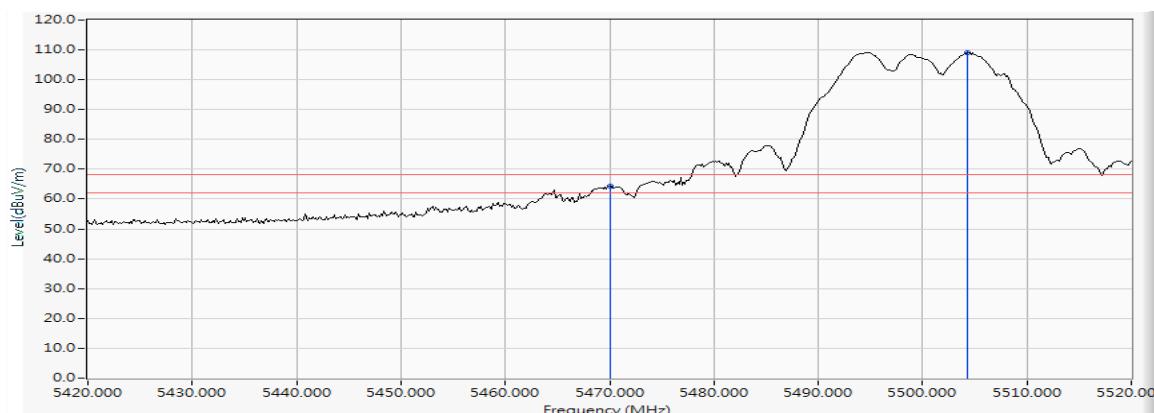
Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

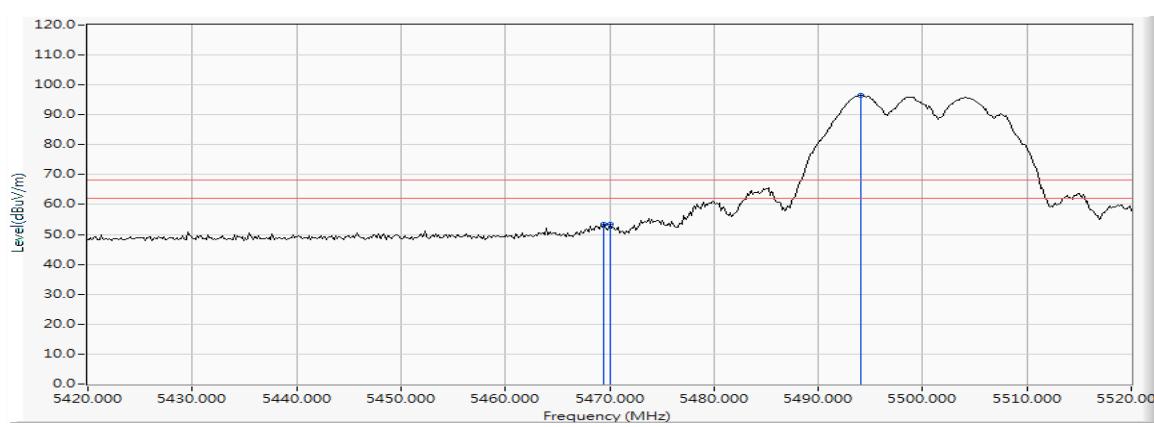
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5470.000	19.110	45.204	64.314	-3.906	68.220	Pass
Horizontal	5504.348	19.194	89.939	109.134	--	--	--



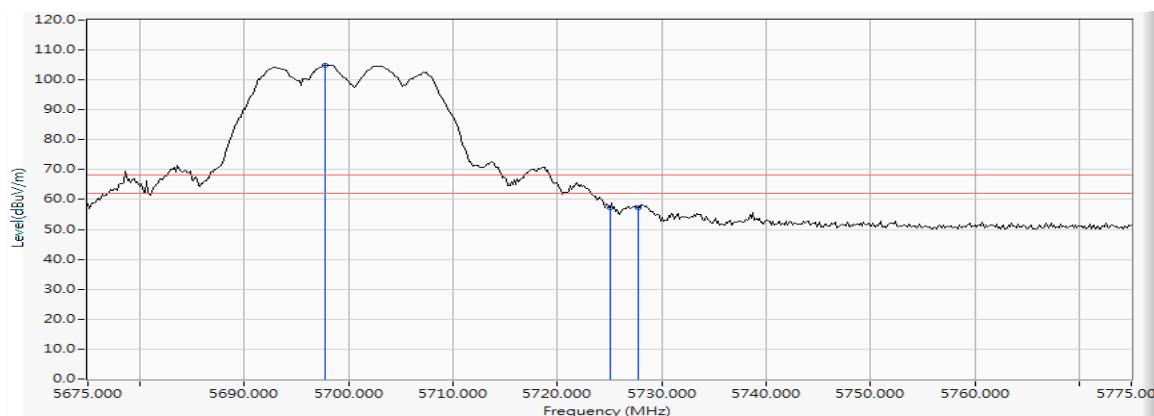
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5469.420	19.109	34.363	53.472	-14.748	68.220	Pass
Vertical	5470.000	19.110	34.137	53.247	-14.973	68.220	Pass
Vertical	5494.058	19.189	77.259	96.447	--	--	--



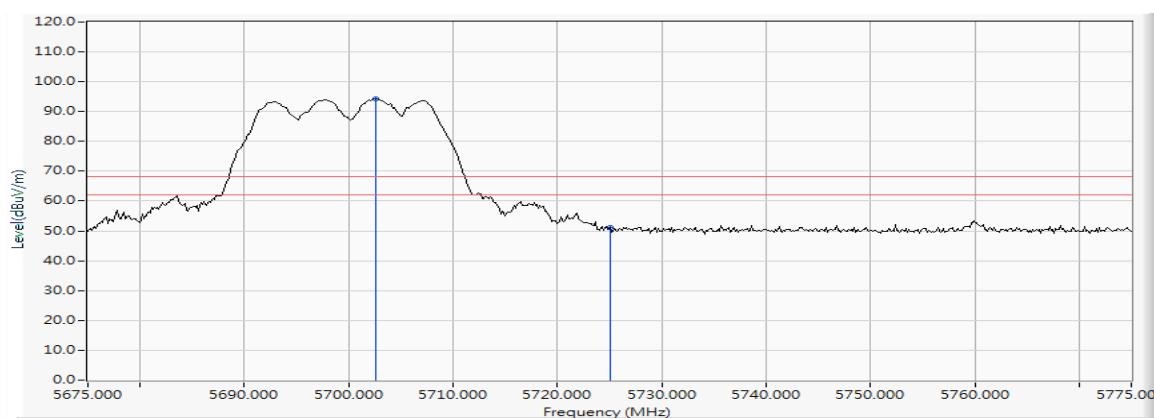
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5700MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5697.754	19.653	85.363	105.017	--	--	--
Horizontal	5725.000	19.725	37.550	57.275	-10.945	68.220	Pass
Horizontal	5727.754	19.732	37.593	57.325	-10.895	68.220	Pass



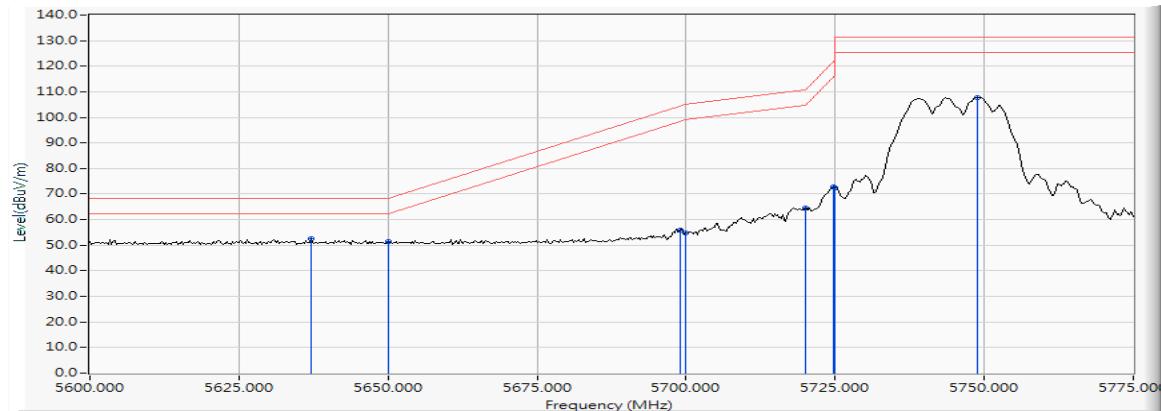
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5702.536	19.665	74.609	94.274	--	--	--
Vertical	5725.000	19.725	31.490	51.215	-17.005	68.220	Pass



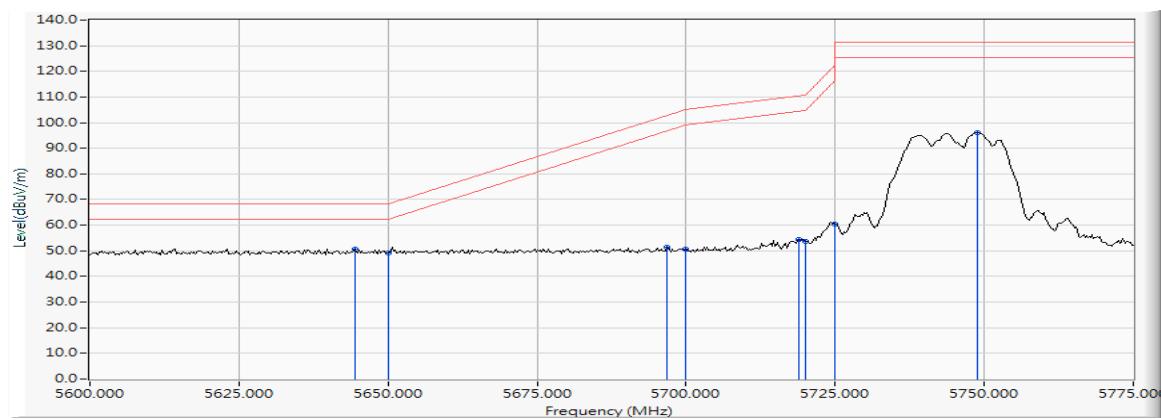
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5637.029	19.505	33.064	52.570	-15.650	68.220	Pass
Horizontal	5650.000	19.535	31.864	51.400	-16.820	68.220	Pass
Horizontal	5698.913	19.657	36.379	56.035	-48.361	104.396	Pass
Horizontal	5700.000	19.659	35.223	54.882	-50.318	105.200	Pass
Horizontal	5720.000	19.711	44.812	64.523	-46.277	110.800	Pass
Horizontal	5724.783	19.725	53.103	72.828	-48.877	121.705	Pass
Horizontal	5725.000	19.725	52.861	72.586	-49.614	122.200	Pass
Horizontal	5748.877	19.771	88.075	107.846	--	--	--



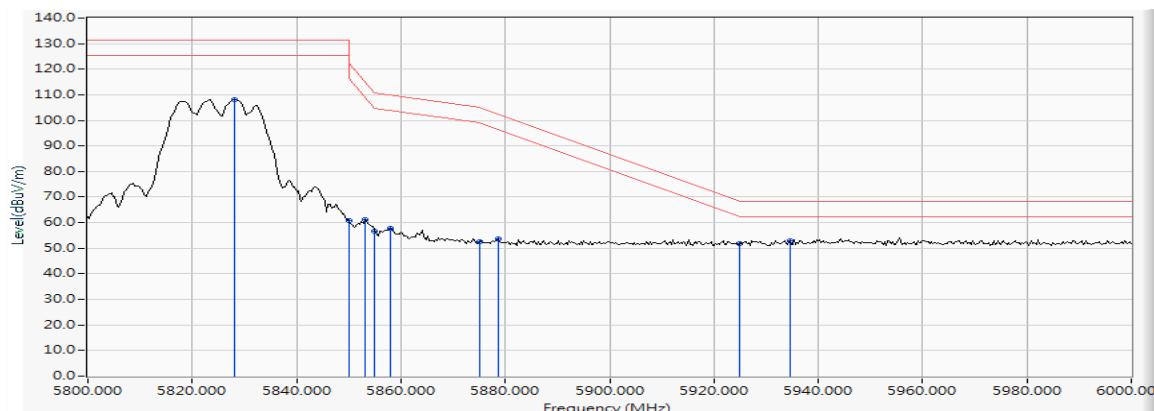
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5644.384	19.522	31.092	50.614	-17.606	68.220	Pass
Vertical	5650.000	19.535	29.583	49.119	-19.101	68.220	Pass
Vertical	5696.884	19.652	31.791	51.443	-51.452	102.895	Pass
Vertical	5700.000	19.659	30.985	50.644	-54.556	105.200	Pass
Vertical	5718.949	19.709	34.828	54.536	-55.970	110.506	Pass
Vertical	5720.000	19.711	33.910	53.621	-57.179	110.800	Pass
Vertical	5725.000	19.725	40.661	60.386	-61.814	122.200	Pass
Vertical	5748.877	19.771	76.415	96.186	--	--	--



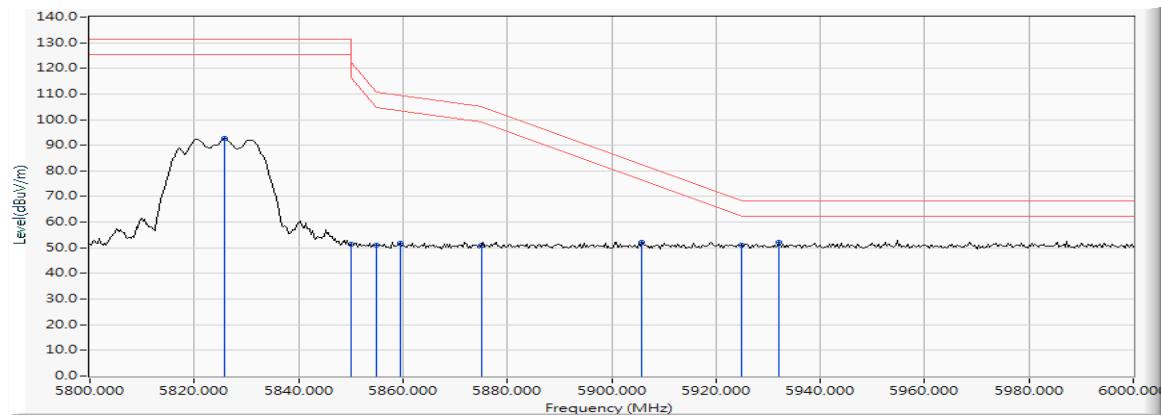
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5828.116	19.948	88.190	108.138	--	--	--
Horizontal	5850.000	19.992	40.850	60.842	-61.358	122.200	Pass
Horizontal	5853.043	19.997	41.127	61.125	-54.137	115.262	Pass
Horizontal	5855.000	20.003	36.645	56.647	-54.153	110.800	Pass
Horizontal	5857.971	20.008	37.779	57.787	-52.181	109.968	Pass
Horizontal	5875.000	20.048	32.513	52.560	-52.640	105.200	Pass
Horizontal	5878.551	20.056	33.569	53.625	-48.949	102.574	Pass
Horizontal	5925.000	20.181	31.524	51.706	-16.514	68.220	Pass
Horizontal	5934.493	20.203	32.595	52.798	-15.422	68.220	Pass



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5825.797	19.942	72.679	92.620	--	--	--
Vertical	5850.000	19.992	31.334	51.326	-70.874	122.200	Pass
Vertical	5855.000	20.003	31.006	51.008	-59.792	110.800	Pass
Vertical	5859.420	20.012	31.688	51.700	-57.862	109.562	Pass
Vertical	5875.000	20.048	30.972	51.019	-54.181	105.200	Pass
Vertical	5905.797	20.118	32.180	52.298	-30.125	82.423	Pass
Vertical	5925.000	20.181	31.012	51.194	-17.026	68.220	Pass
Vertical	5932.174	20.198	32.064	52.262	-15.958	68.220	Pass



Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5180MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
36 (Peak)	5149.275	18.331	47.716	66.048	74.00	54.00	Pass
36 (Peak)	5150.000	18.335	47.640	65.974	74.00	54.00	Pass
36 (Peak)	5181.884	18.408	95.855	114.263	--	--	--
36 (Average)	5150.000	18.335	33.771	52.105	74.00	54.00	Pass
36 (Average)	5177.391	18.395	84.244	102.639	--	--	--

Figure Channel 36:

Horizontal (Peak)

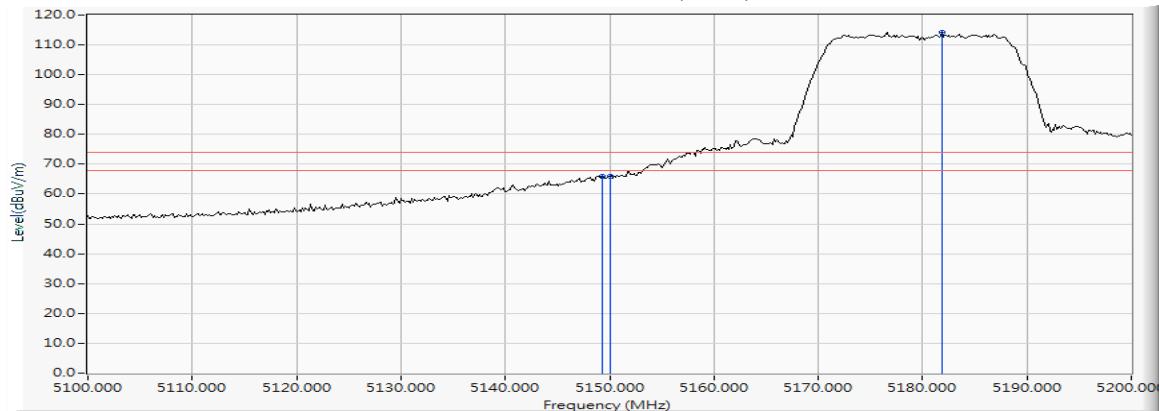
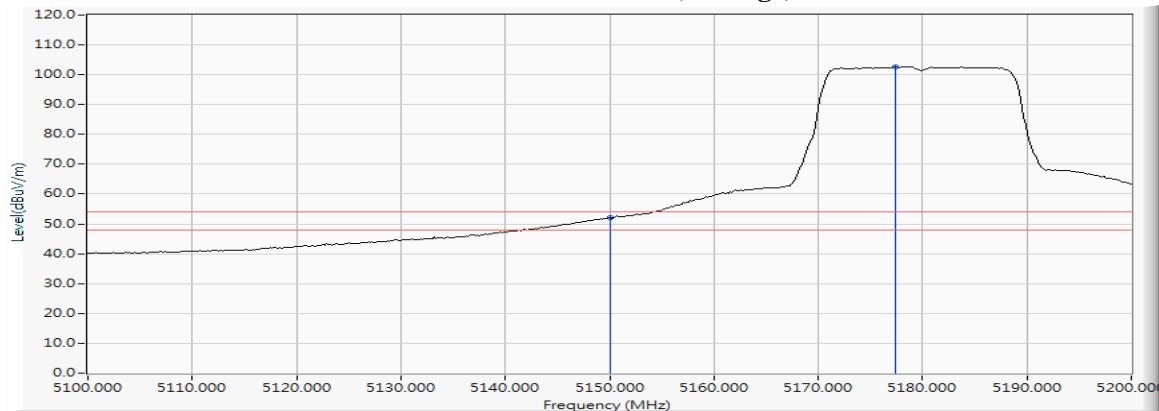


Figure Channel 36:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5180MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
36 (Peak)	5150.000	18.335	39.971	58.305	74.00	54.00	Pass
36 (Peak)	5181.739	18.408	86.687	105.094	--	--	--
36 (Average)	5149.855	18.334	25.570	43.904	74.00	54.00	Pass
36 (Average)	5150.000	18.335	25.472	43.806	74.00	54.00	Pass
36 (Average)	5178.696	18.398	75.319	93.717	--	--	--

Figure Channel 36:

Vertical (Peak)

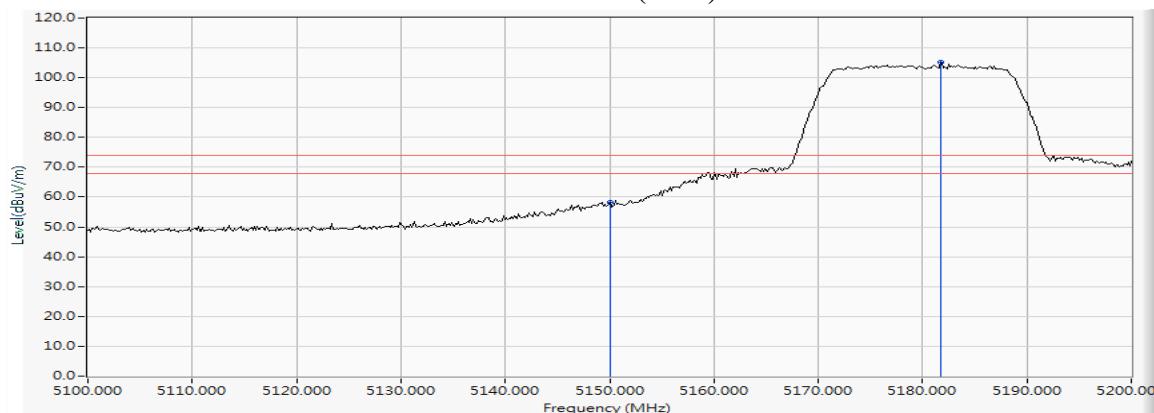
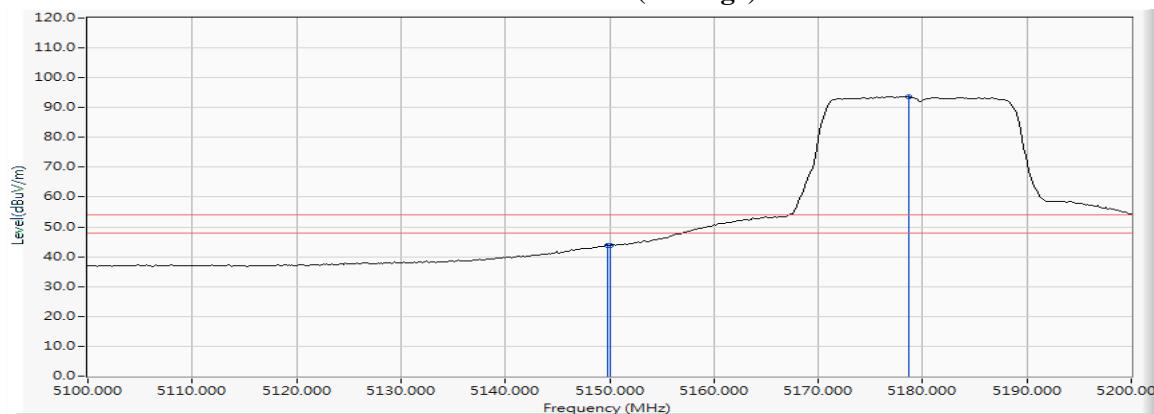


Figure Channel 36:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5320MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
64 (Peak)	5316.522	18.736	94.122	112.857	--	--	--
64 (Peak)	5350.000	18.833	43.333	62.166	74.00	54.00	Pass
64 (Average)	5321.159	18.746	82.814	101.560	--	--	--
64 (Average)	5350.000	18.833	28.395	47.228	74.00	54.00	Pass

Figure Channel 64:

Horizontal (Peak)

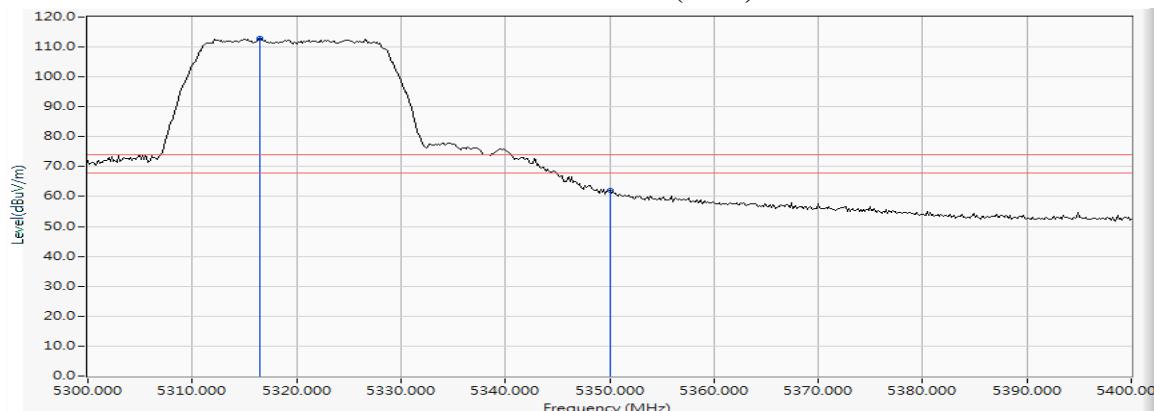


Figure Channel 64:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5320MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
64 (Peak)	5321.594	18.747	85.596	104.343	--	--	--
64 (Peak)	5350.000	18.833	34.113	52.946	74.00	54.00	Pass
64 (Peak)	5350.870	18.834	34.475	53.309	74.00	54.00	Pass
64 (Average)	5314.058	18.729	73.725	92.455	--	--	--
64 (Average)	5350.000	18.833	21.380	40.213	74.00	54.00	Pass
64 (Average)	5350.435	18.833	21.103	39.936	74.00	54.00	Pass

Figure Channel 64:

Vertical (Peak)

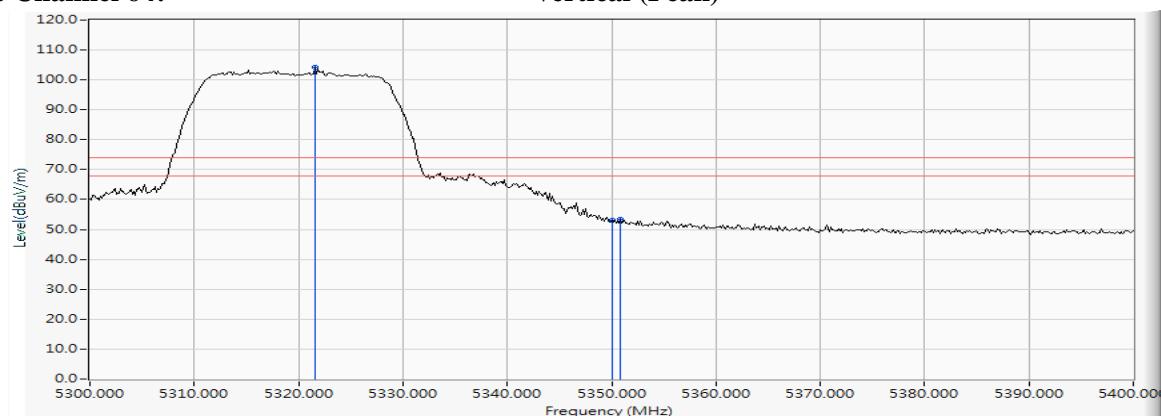
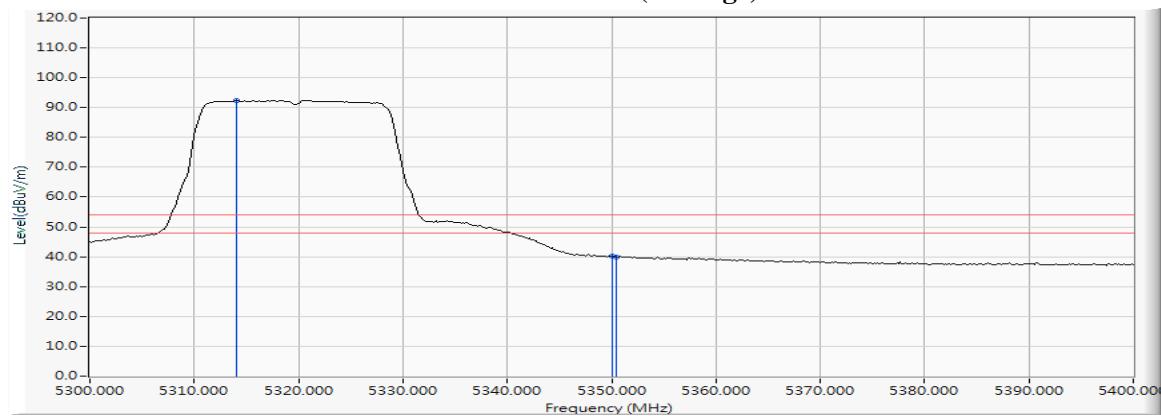


Figure Channel 64:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
100 (Peak)	5459.565	19.098	41.293	60.390	74.00	54.00	Pass
100 (Peak)	5460.000	19.097	40.696	59.793	74.00	54.00	Pass
100 (Peak)	5496.667	19.191	90.832	110.023	--	--	--
100 (Average)	5459.710	19.097	26.314	45.411	74.00	54.00	Pass
100 (Average)	5460.000	19.097	26.095	45.192	74.00	54.00	Pass
100 (Average)	5494.348	19.188	79.250	98.439	--	--	--

Figure Channel 100:

Horizontal (Peak)

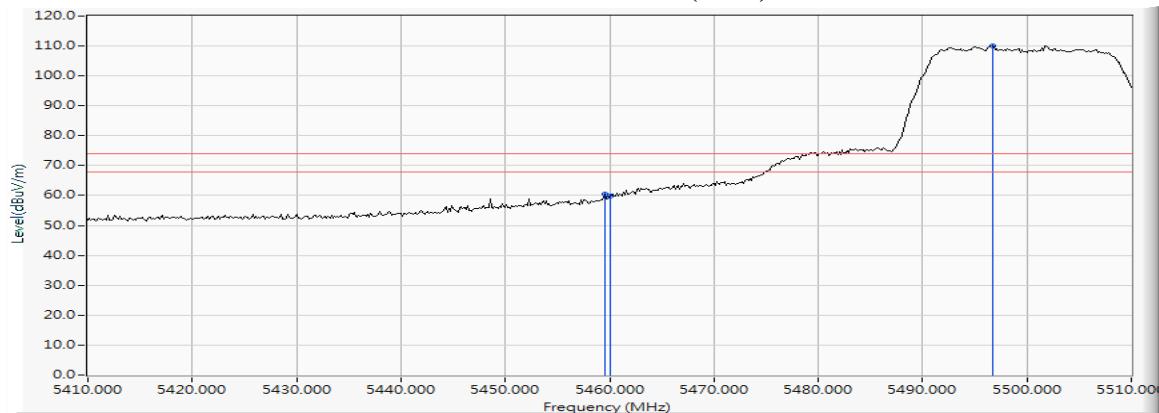
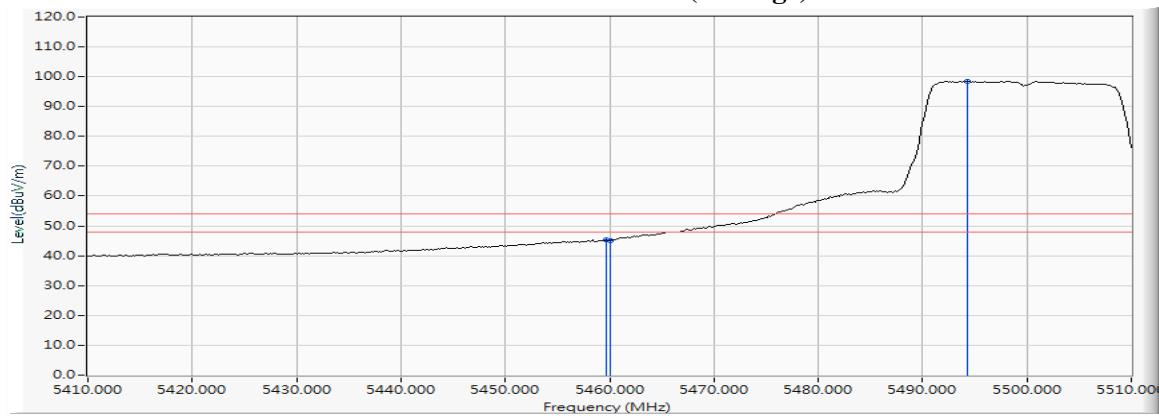


Figure Channel 100:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
100 (Peak)	5458.841	19.096	32.785	51.881	74.00	54.00	Pass
100 (Peak)	5460.000	19.097	32.660	51.757	74.00	54.00	Pass
100 (Peak)	5501.594	19.194	80.587	99.781	--	--	--
100 (Average)	5460.000	19.097	19.839	38.936	74.00	54.00	Pass
100 (Average)	5495.652	19.190	69.502	88.692	--	--	--

Figure Channel 100:

Vertical (Peak)

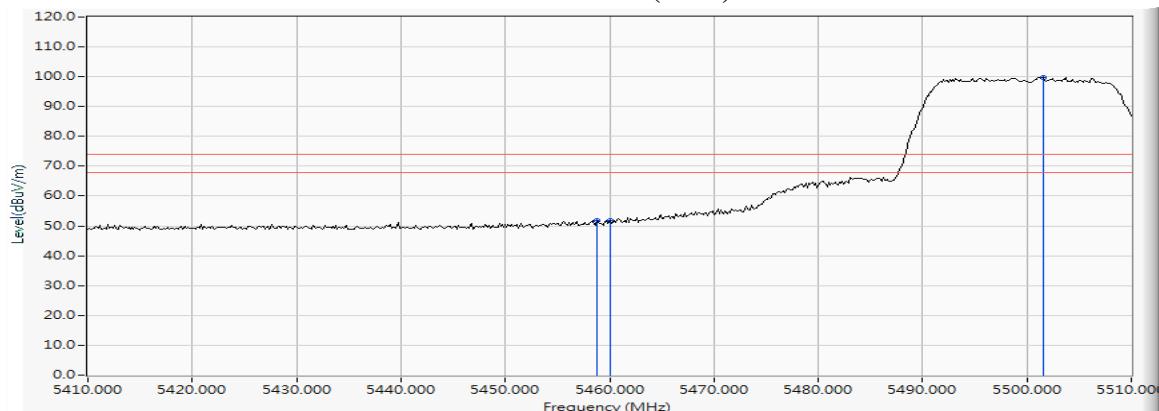
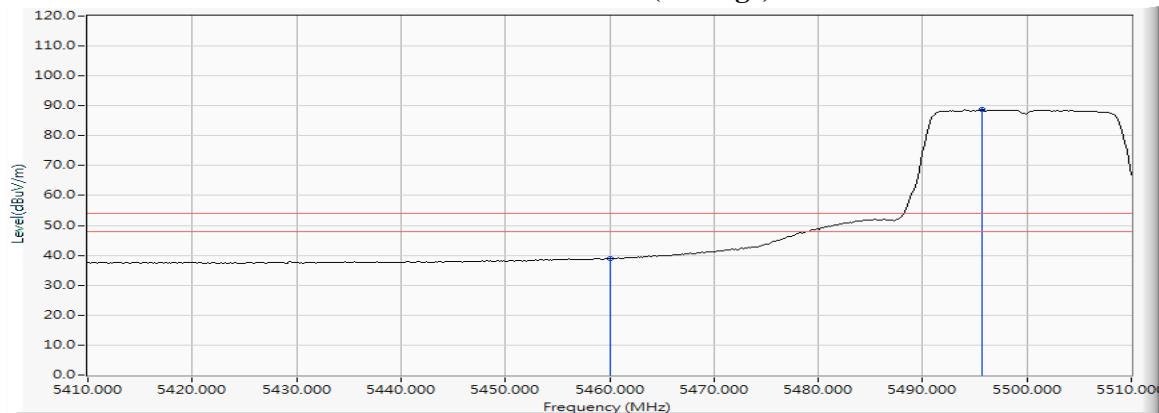


Figure Channel 100:

Vertical (Average)



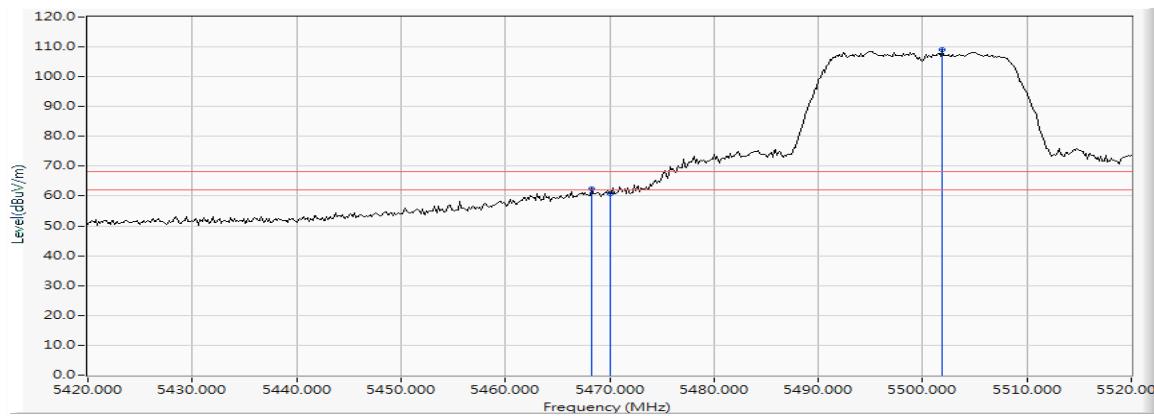
Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

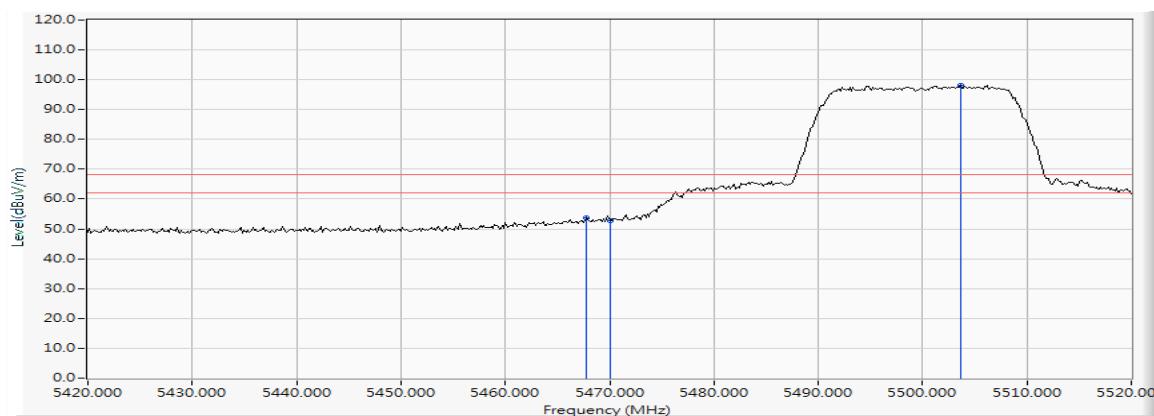
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5500MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5468.261	19.108	43.154	62.262	-5.958	68.220	Pass
Horizontal	5470.000	19.110	41.636	60.746	-7.474	68.220	Pass
Horizontal	5501.884	19.194	89.880	109.074	--	--	--



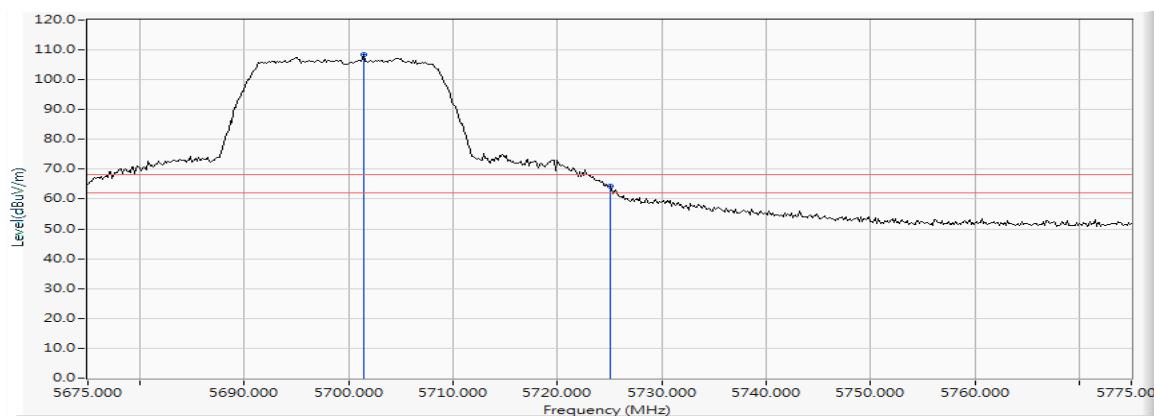
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5467.826	19.107	34.772	53.879	-14.341	68.220	Pass
Vertical	5470.000	19.110	33.564	52.674	-15.546	68.220	Pass
Vertical	5503.623	19.195	78.931	98.126	--	--	--



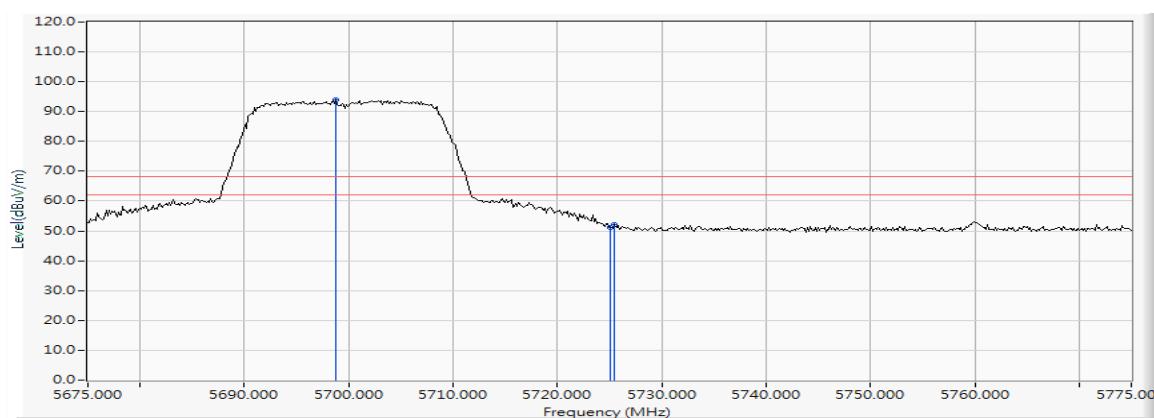
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5700MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5701.377	19.663	88.602	108.264	--	--	--
Horizontal	5725.000	19.725	44.478	64.203	-4.017	68.220	Pass



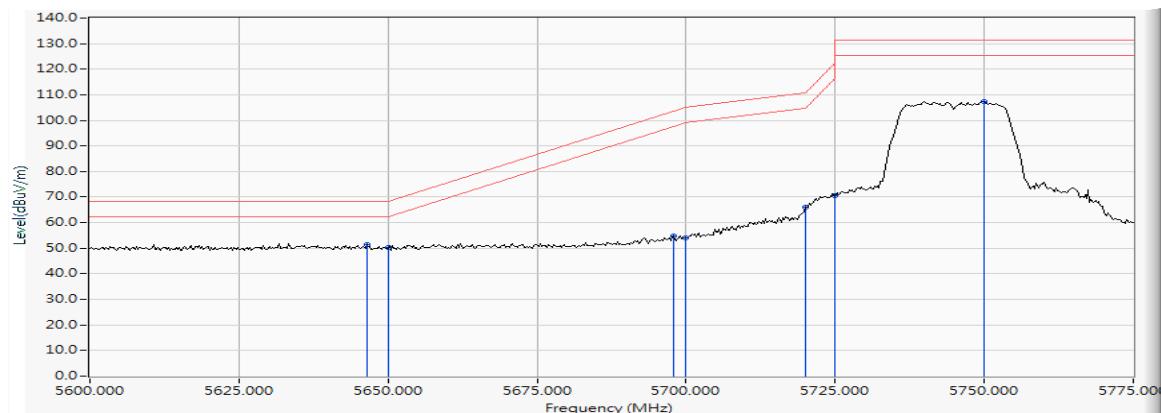
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5698.768	19.656	74.160	93.816	--	--	--
Vertical	5725.000	19.725	31.419	51.144	-17.076	68.220	Pass
Vertical	5725.435	19.726	32.293	52.019	-16.201	68.220	Pass



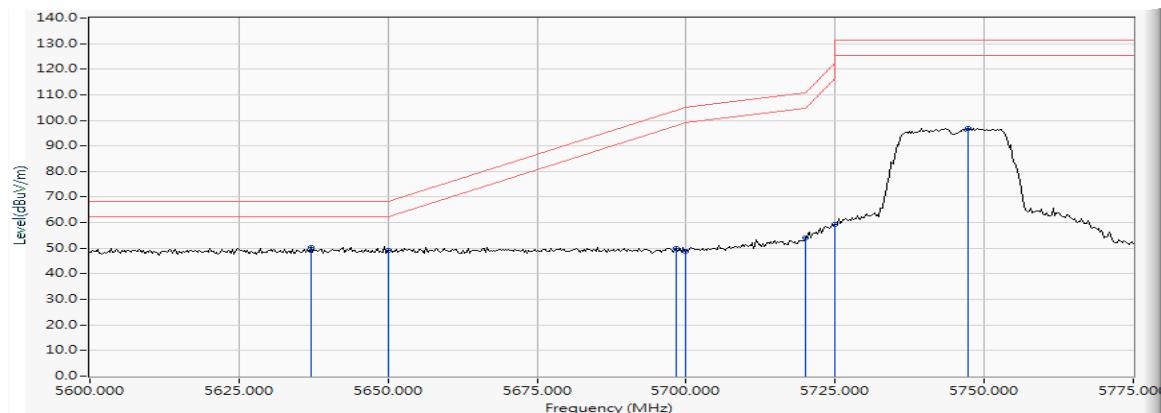
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5745MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5646.413	19.527	31.795	51.322	-16.898	68.220	Pass
Horizontal	5650.000	19.535	30.598	50.134	-18.086	68.220	Pass
Horizontal	5697.899	19.654	35.173	54.827	-48.819	103.646	Pass
Horizontal	5700.000	19.659	34.398	54.057	-51.143	105.200	Pass
Horizontal	5720.000	19.711	46.374	66.085	-44.715	110.800	Pass
Horizontal	5725.000	19.725	50.652	70.377	-51.823	122.200	Pass
Horizontal	5749.891	19.773	87.596	107.369	--	--	--



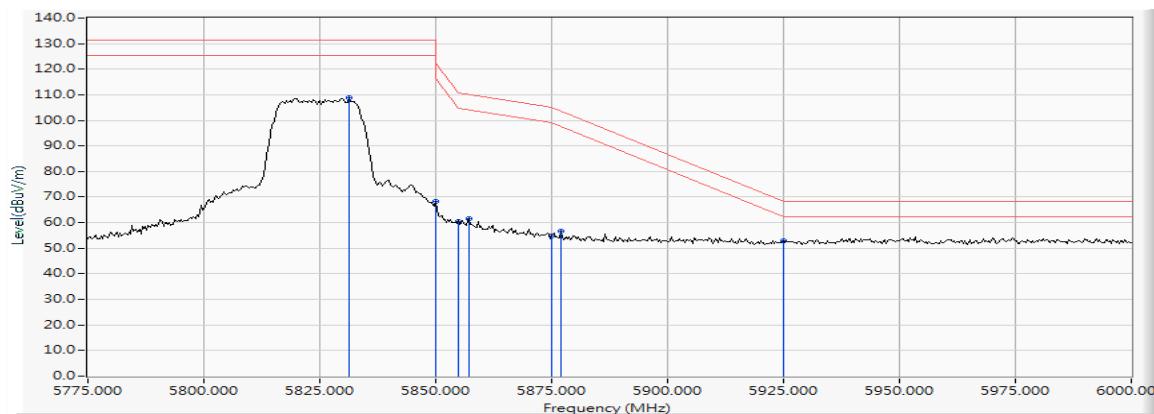
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5637.029	19.505	30.960	50.466	-17.754	68.220	Pass
Vertical	5650.000	19.535	29.729	49.265	-18.955	68.220	Pass
Vertical	5698.406	19.655	30.396	50.051	-53.970	104.021	Pass
Vertical	5700.000	19.659	29.083	48.742	-56.458	105.200	Pass
Vertical	5720.000	19.711	34.462	54.173	-56.627	110.800	Pass
Vertical	5725.000	19.725	39.458	59.183	-63.017	122.200	Pass
Vertical	5747.355	19.768	77.198	96.966	--	--	--



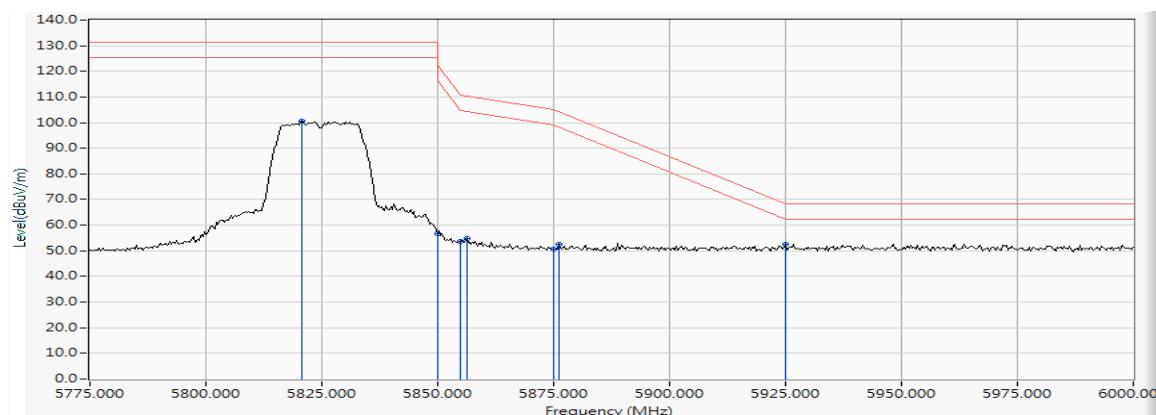
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps) (5825MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5831.413	19.958	88.755	108.712	--	--	--
Horizontal	5850.000	19.992	48.263	68.255	-53.945	122.200	Pass
Horizontal	5855.000	20.003	40.506	60.508	-50.292	110.800	Pass
Horizontal	5857.174	20.007	41.665	61.672	-48.519	110.191	Pass
Horizontal	5875.000	20.048	34.652	54.699	-50.501	105.200	Pass
Horizontal	5877.065	20.053	36.596	56.648	-47.025	103.673	Pass
Horizontal	5925.000	20.181	32.805	52.987	-15.233	68.220	Pass



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5820.652	19.927	80.718	100.644	--	--	--
Vertical	5850.000	19.992	36.581	56.573	-65.627	122.200	Pass
Vertical	5855.000	20.003	33.505	53.507	-57.293	110.800	Pass
Vertical	5856.196	20.004	34.694	54.699	-55.766	110.465	Pass
Vertical	5875.000	20.048	30.518	50.565	-54.635	105.200	Pass
Vertical	5876.087	20.049	32.315	52.365	-52.031	104.396	Pass
Vertical	5925.000	20.181	32.186	52.368	-15.852	68.220	Pass



Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5190MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
38 (Peak)	5150.000	18.335	48.456	66.790	74.00	54.00	Pass
38 (Peak)	5186.812	18.422	89.582	108.004	--	--	--
38 (Average)	5150.000	18.335	35.023	53.357	74.00	54.00	Pass
38 (Average)	5194.783	18.433	78.413	96.845	--	--	--

Figure Channel 38:

Horizontal (Peak)

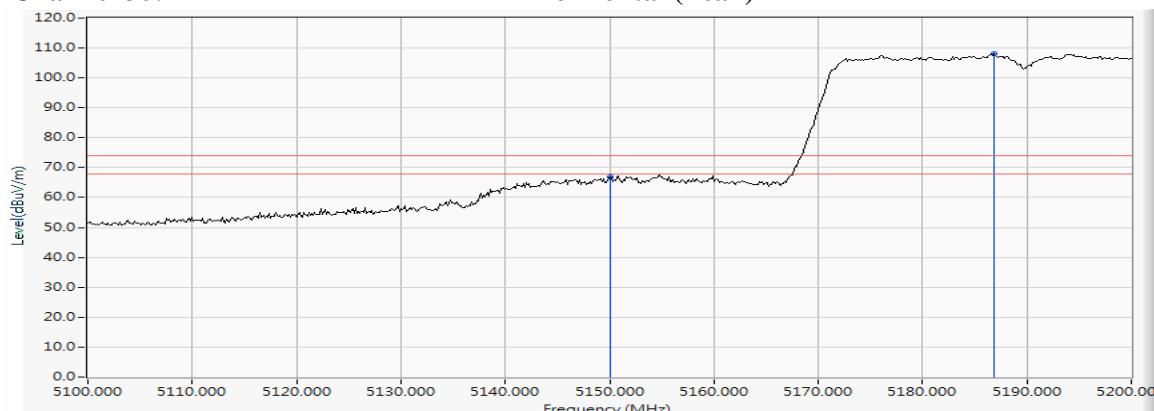
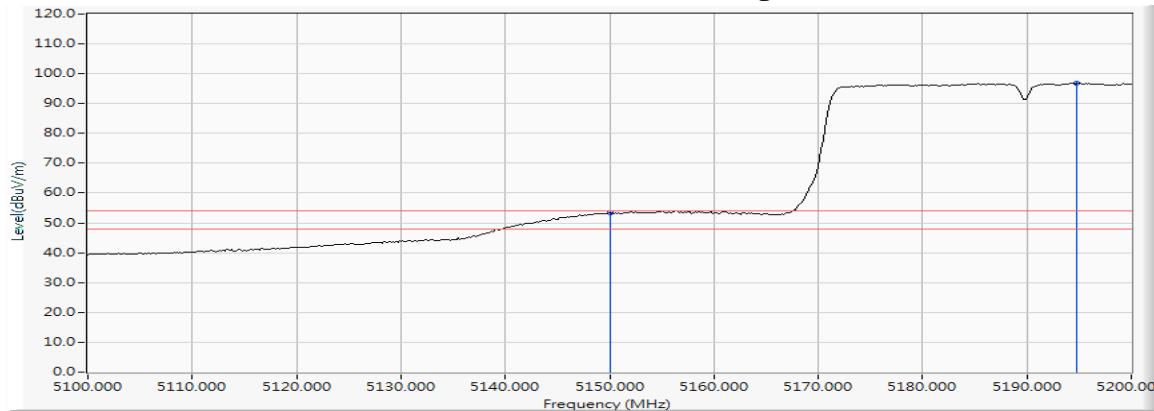


Figure Channel 38:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5190MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
38 (Peak)	5149.855	18.334	38.771	57.105	74.00	54.00	Pass
38 (Peak)	5150.000	18.335	36.307	54.641	74.00	54.00	Pass
38 (Peak)	5198.116	18.436	80.187	98.623	--	--	--
38 (Average)	5150.000	18.335	25.316	43.650	74.00	54.00	Pass
38 (Average)	5185.362	18.418	69.344	87.762	--	--	--

Figure Channel 38:

Vertical (Peak)

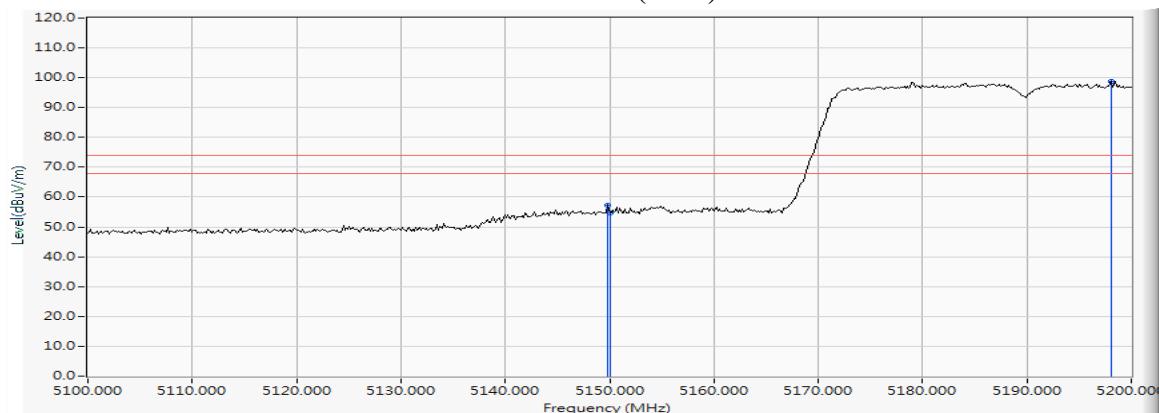
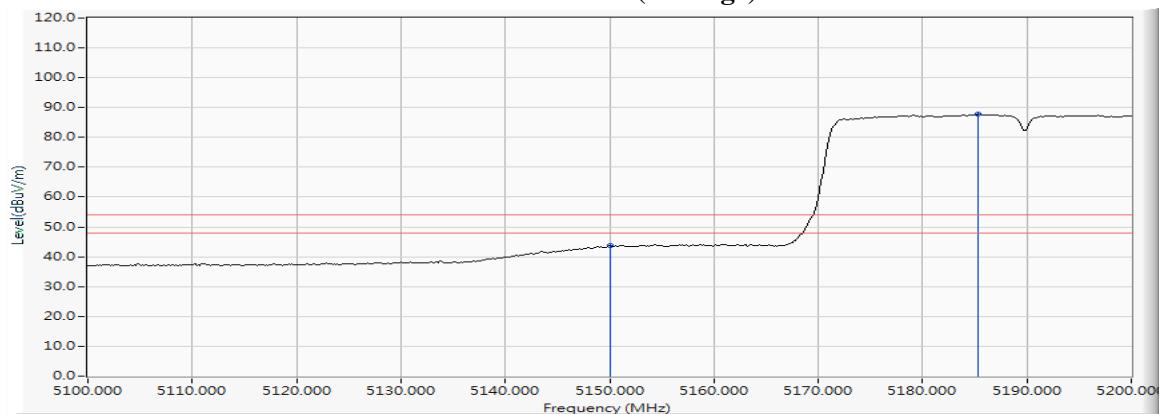


Figure Channel 38:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5310MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
62 (Peak)	5306.812	18.712	89.245	107.958	--	--	--
62 (Peak)	5350.000	18.833	44.914	63.747	74.00	54.00	Pass
62 (Peak)	5350.435	18.833	46.455	65.288	74.00	54.00	Pass
62 (Average)	5305.072	18.708	78.496	97.205	--	--	--
62 (Average)	5350.000	18.833	32.314	51.147	74.00	54.00	Pass

Figure Channel 62:

Horizontal (Peak)

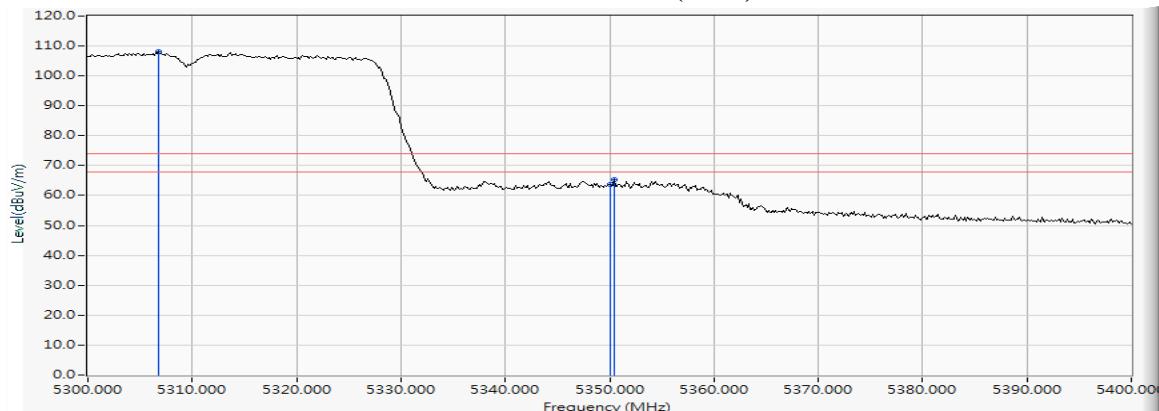
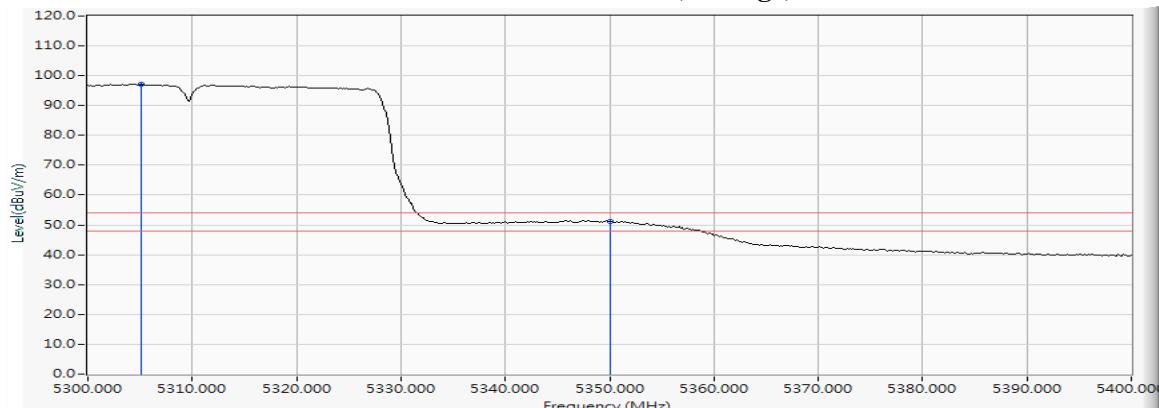


Figure Channel 62:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5310MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
62 (Peak)	5317.971	18.739	79.502	98.241	--	--	--
62 (Peak)	5350.000	18.833	35.991	54.824	74.00	54.00	Pass
62 (Peak)	5353.913	18.837	36.977	55.815	74.00	54.00	Pass
62 (Average)	5313.913	18.729	68.660	87.389	--	--	--
62 (Average)	5350.000	18.833	23.496	42.329	74.00	54.00	Pass

Figure Channel 62:

Vertical (Peak)

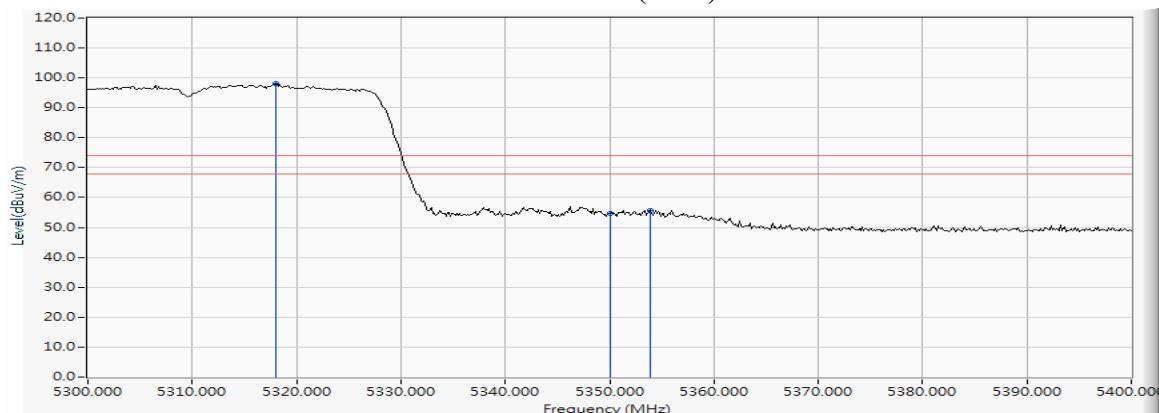
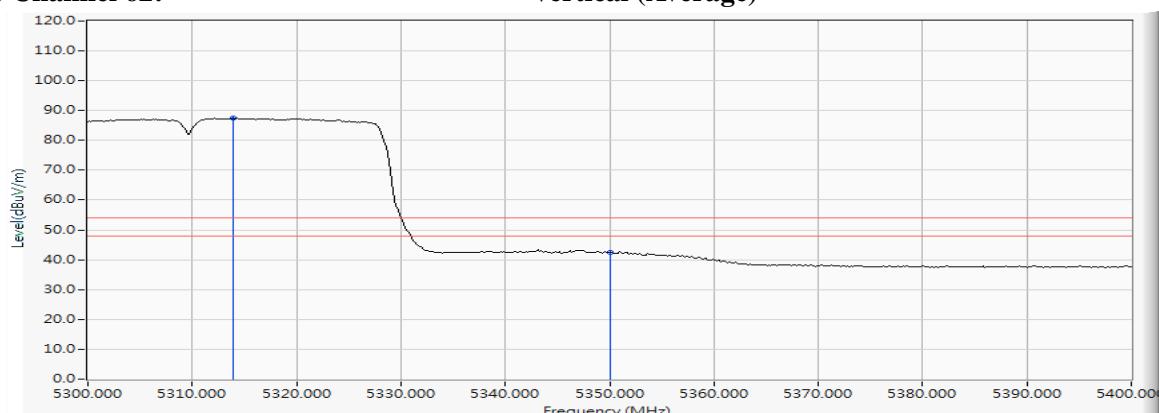


Figure Channel 62:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5510MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
102 (Peak)	5459.565	19.098	45.831	64.928	74.00	54.00	Pass
102 (Peak)	5460.000	19.097	45.346	64.443	74.00	54.00	Pass
102 (Peak)	5496.087	19.190	85.879	105.069	--	--	--
102 (Average)	5460.000	19.097	30.664	49.761	74.00	54.00	Pass
102 (Average)	5500.580	19.194	74.680	93.874	--	--	--

Figure Channel 102:

Horizontal (Peak)

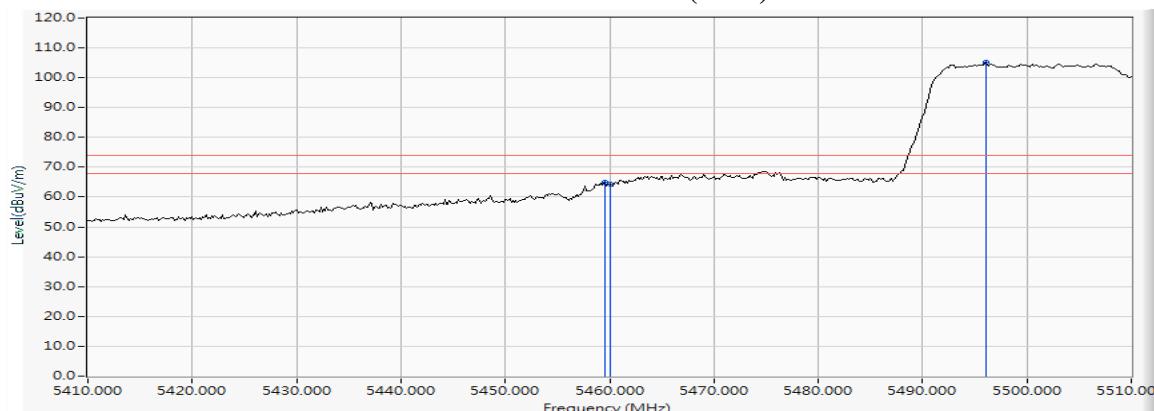
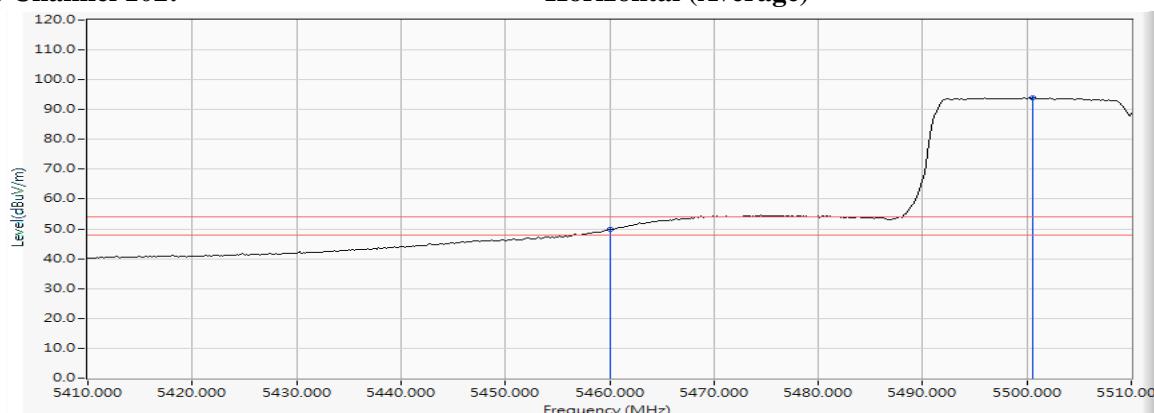


Figure Channel 102:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5510MHz)
 Test Date : 2018/01/10

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
102 (Peak)	5455.652	19.088	38.948	58.036	74.00	54.00	Pass
102 (Peak)	5460.000	19.097	38.180	57.277	74.00	54.00	Pass
102 (Peak)	5490.145	19.176	75.394	94.570	--	--	--
102 (Average)	5467.246	19.106	38.750	57.856	74.00	54.00	Pass
102 (Average)	5470.000	19.110	37.495	56.605	74.00	54.00	Pass
102 (Average)	5500.290	19.194	75.517	94.711	--	--	--

Figure Channel 102:

Vertical (Peak)

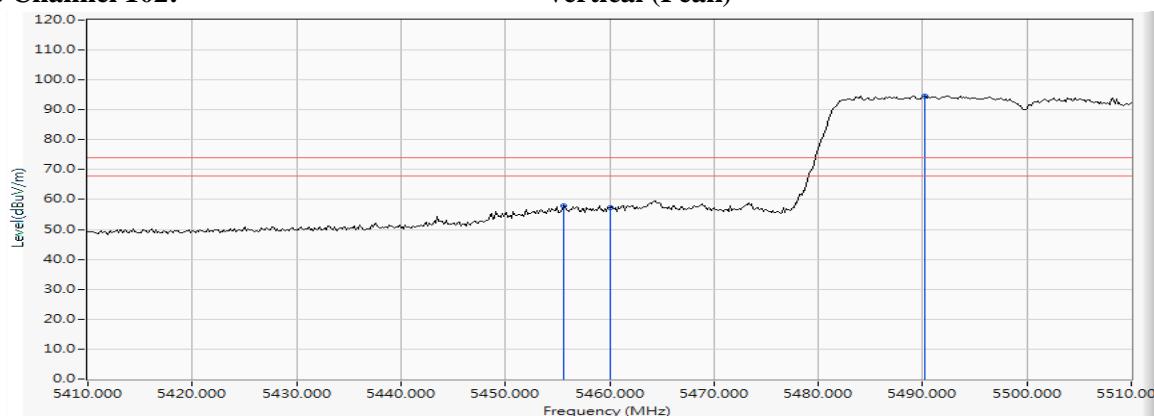
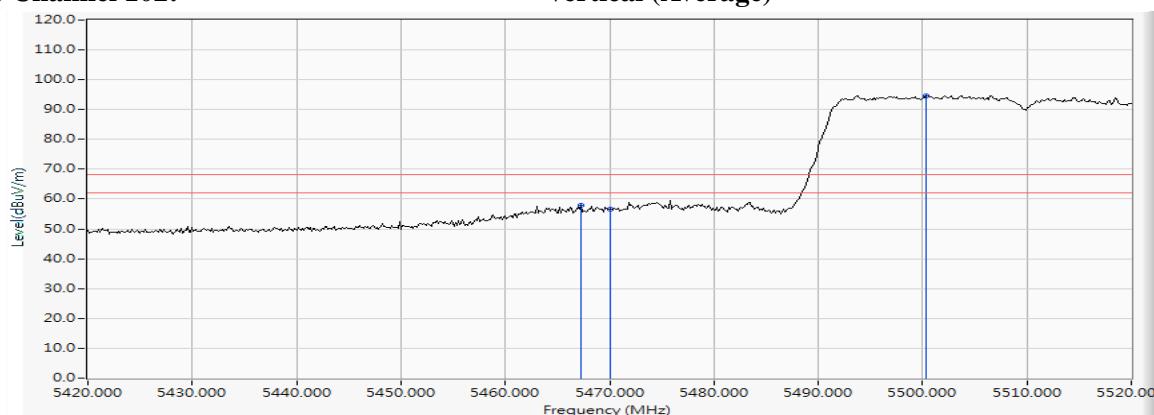


Figure Channel 102:

Vertical (Average)



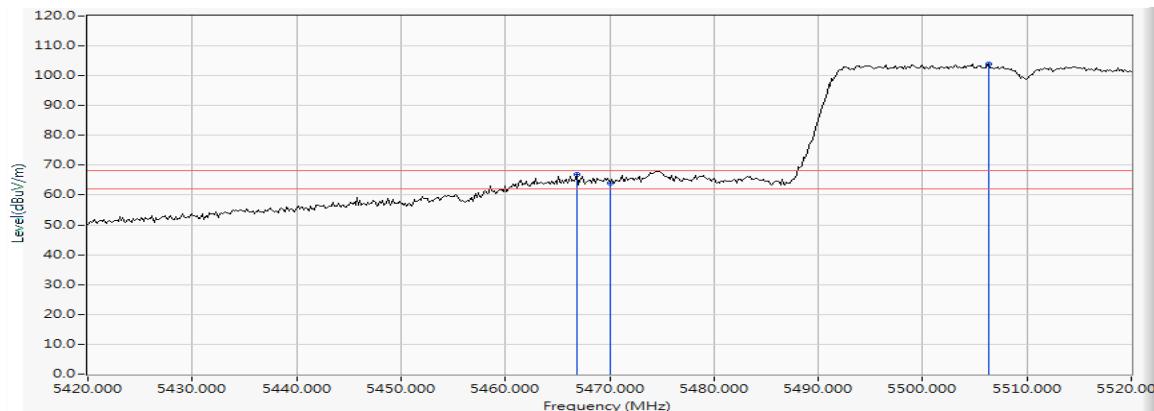
Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

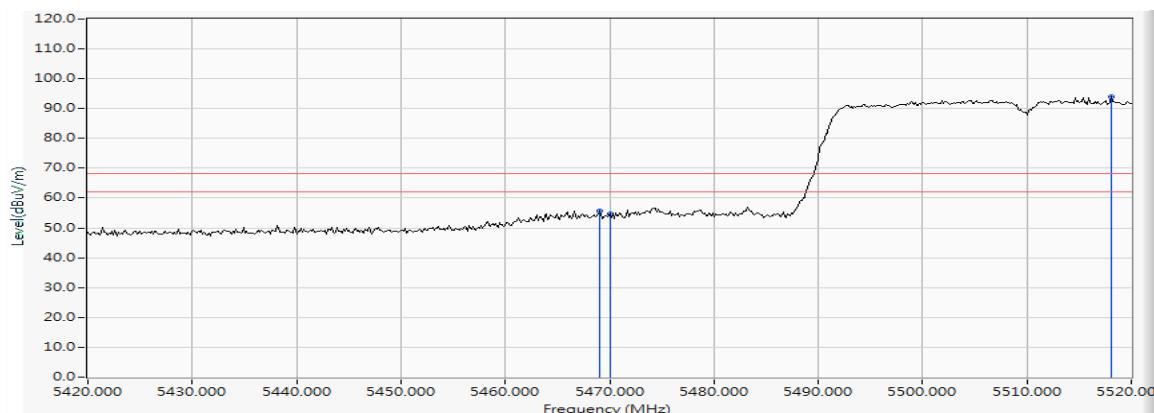
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5510MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5466.812	19.107	47.843	66.949	-1.271	68.220	Pass
Horizontal	5470.000	19.110	44.971	64.081	-4.139	68.220	Pass
Horizontal	5506.377	19.196	84.691	103.887	--	--	--



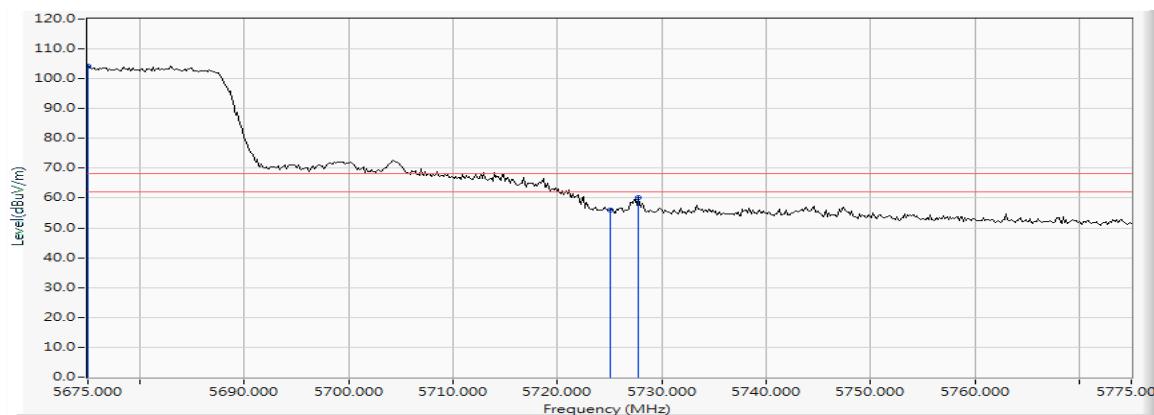
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5468.986	19.108	36.550	55.659	-12.561	68.220	Pass
Vertical	5470.000	19.110	35.495	54.605	-13.615	68.220	Pass
Vertical	5518.116	19.226	74.831	94.058	--	--	--



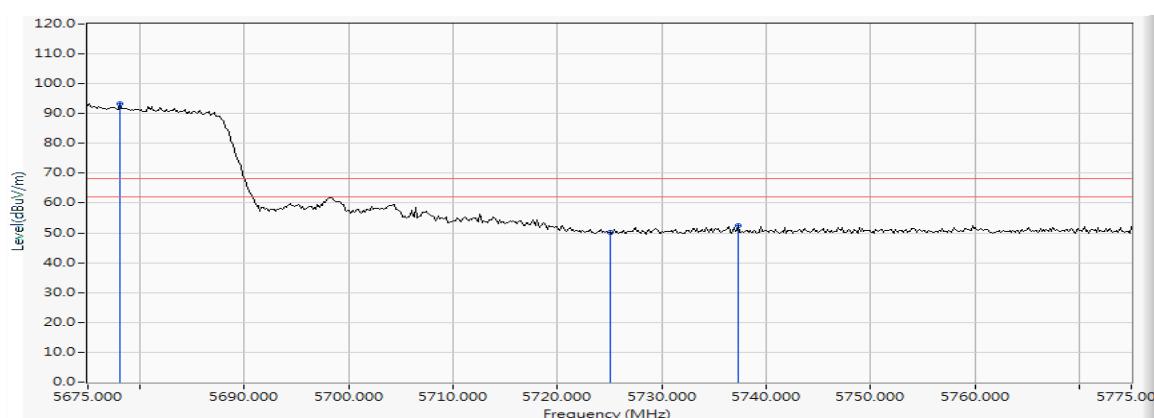
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5670MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5675.000	19.585	84.586	104.171	--	--	--
Horizontal	5725.000	19.725	36.238	55.963	-12.257	68.220	Pass
Horizontal	5727.754	19.732	40.294	60.026	-8.194	68.220	Pass



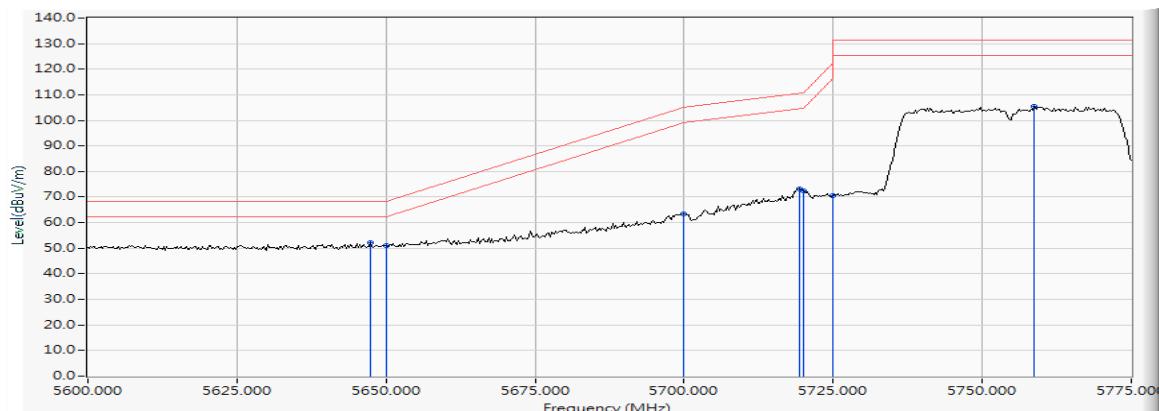
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5678.043	19.596	73.754	93.350	--	--	--
Vertical	5725.000	19.725	30.555	50.280	-17.940	68.220	Pass
Vertical	5737.319	19.748	32.604	52.352	-15.868	68.220	Pass



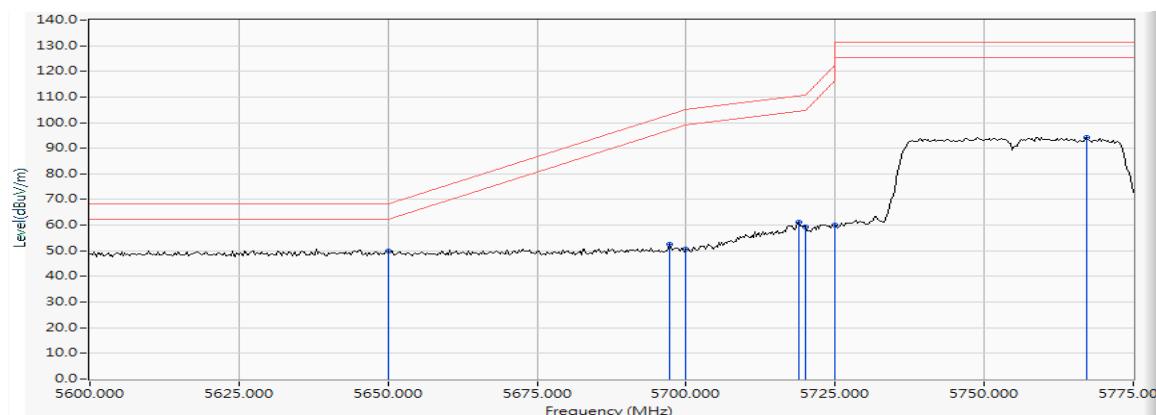
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5755MHz)
 Test Date : 2018/01/10

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5647.428	19.530	32.724	52.254	-15.966	68.220	Pass
Horizontal	5650.000	19.535	31.432	50.968	-17.252	68.220	Pass
Horizontal	5700.000	19.659	43.892	63.551	-41.649	105.200	Pass
Horizontal	5719.457	19.709	53.661	73.370	-37.278	110.648	Pass
Horizontal	5720.000	19.711	52.792	72.503	-38.297	110.800	Pass
Horizontal	5725.000	19.725	50.818	70.543	-51.657	122.200	Pass
Horizontal	5758.768	19.793	85.598	105.391	--	--	--



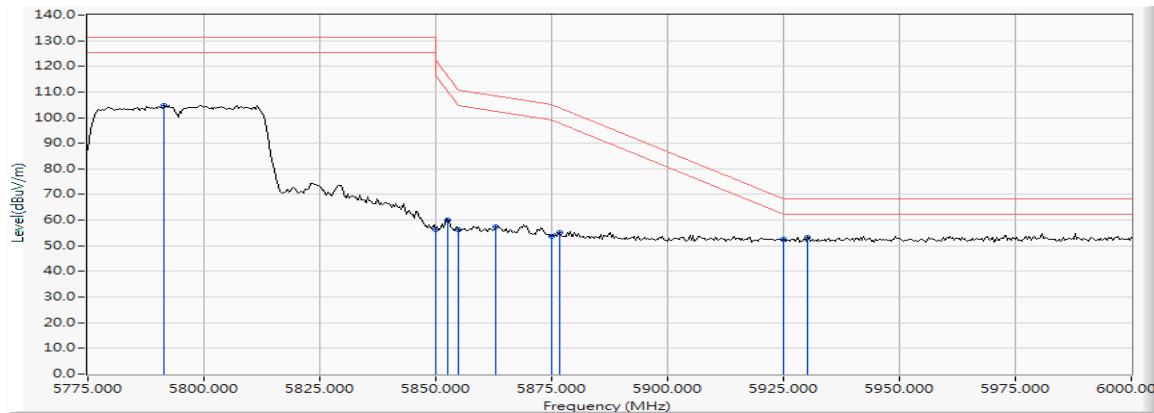
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5650.000	19.535	30.383	49.919	-18.301	68.220	Pass
Vertical	5697.138	19.652	32.728	52.380	-50.703	103.083	Pass
Vertical	5700.000	19.659	30.925	50.584	-54.616	105.200	Pass
Vertical	5718.949	19.709	41.642	61.350	-49.156	110.506	Pass
Vertical	5720.000	19.711	39.680	59.391	-51.409	110.800	Pass
Vertical	5725.000	19.725	40.280	60.005	-62.195	122.200	Pass
Vertical	5767.138	19.809	74.559	94.368	--	--	--



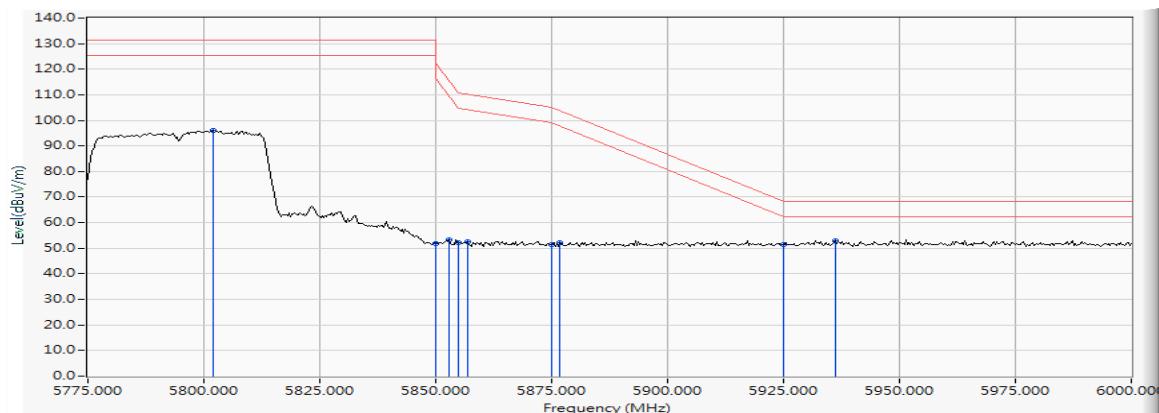
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps) (5795MHz)
 Test Date : 2018/01/10

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5791.304	19.869	84.972	104.841	--	--	--
Horizontal	5850.000	19.992	36.243	56.235	-65.965	122.200	Pass
Horizontal	5852.609	19.997	40.021	60.018	-56.233	116.251	Pass
Horizontal	5855.000	20.003	36.429	56.431	-54.369	110.800	Pass
Horizontal	5863.043	20.020	37.483	57.503	-51.045	108.548	Pass
Horizontal	5875.000	20.048	33.774	53.821	-51.379	105.200	Pass
Horizontal	5876.739	20.052	35.293	55.345	-48.569	103.914	Pass
Horizontal	5925.000	20.181	32.510	52.692	-15.528	68.220	Pass
Horizontal	5930.217	20.193	33.193	53.387	-14.833	68.220	Pass



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5802.065	19.897	76.123	96.020	--	--	--
Vertical	5850.000	19.992	31.730	51.722	-70.478	122.200	Pass
Vertical	5852.935	19.997	33.113	53.111	-62.397	115.508	Pass
Vertical	5855.000	20.003	32.074	52.076	-58.724	110.800	Pass
Vertical	5856.848	20.007	32.409	52.415	-57.868	110.283	Pass
Vertical	5875.000	20.048	31.327	51.374	-53.826	105.200	Pass
Vertical	5876.739	20.052	32.187	52.239	-51.675	103.914	Pass
Vertical	5925.000	20.181	31.096	51.278	-16.942	68.220	Pass
Vertical	5936.087	20.207	32.639	52.845	-15.375	68.220	Pass



Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5210MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
42 (Peak)	5129.420	18.273	46.645	64.917	74.00	54.00	Pass
42 (Peak)	5150.000	18.335	45.725	64.059	74.00	54.00	Pass
42 (Peak)	5194.928	18.433	84.978	103.411	--	--	--
42 (Average)	5150.000	18.335	33.638	51.972	74.00	54.00	Pass
42 (Average)	5200.000	18.439	75.154	93.593	--	--	--

Figure Channel 42:

Horizontal (Peak)

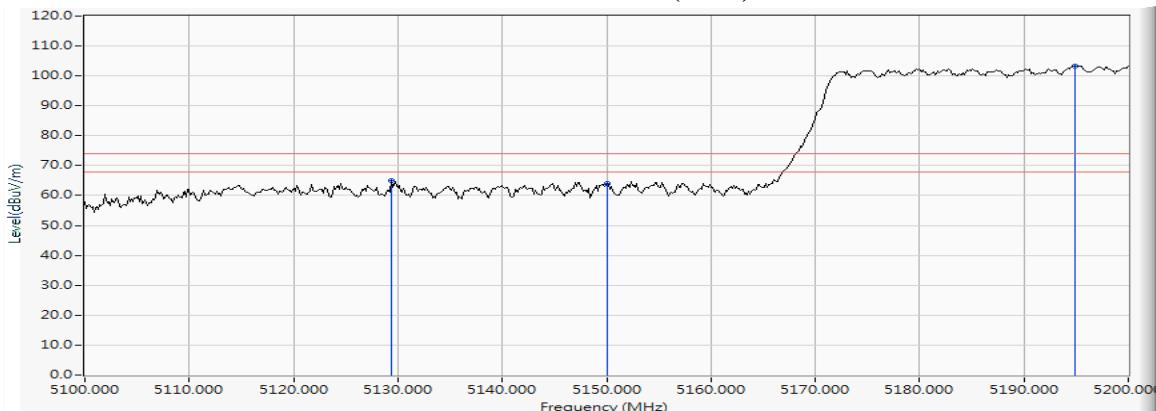
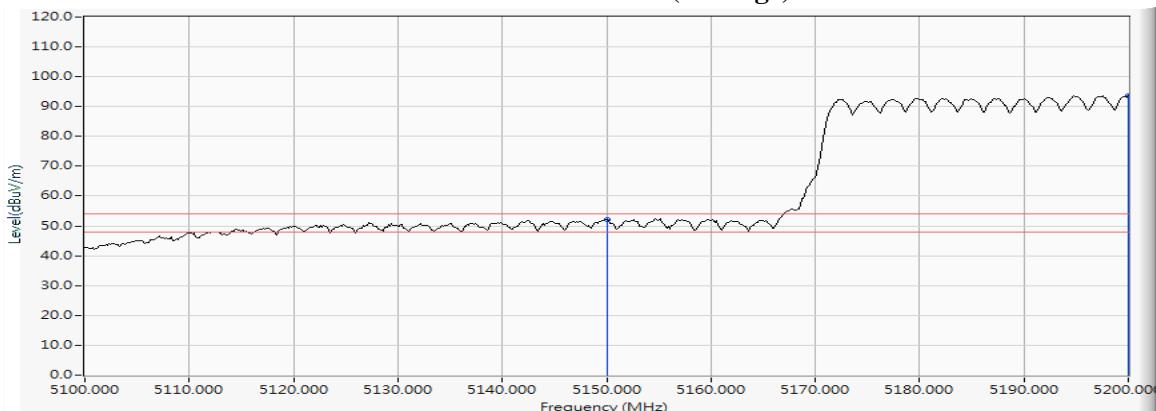


Figure Channel 42:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5210MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
42 (Peak)	5148.986	18.331	35.959	54.290	74.00	54.00	Pass
42 (Peak)	5150.000	18.335	34.123	52.457	74.00	54.00	Pass
42 (Peak)	5196.957	18.435	75.109	93.544	--	--	--
42 (Average)	5136.957	18.290	23.129	41.418	74.00	54.00	Pass
42 (Average)	5150.000	18.335	22.634	40.968	74.00	54.00	Pass
42 (Average)	5198.986	18.438	65.208	83.646	--	--	--

Figure Channel 42:

Vertical (Peak)

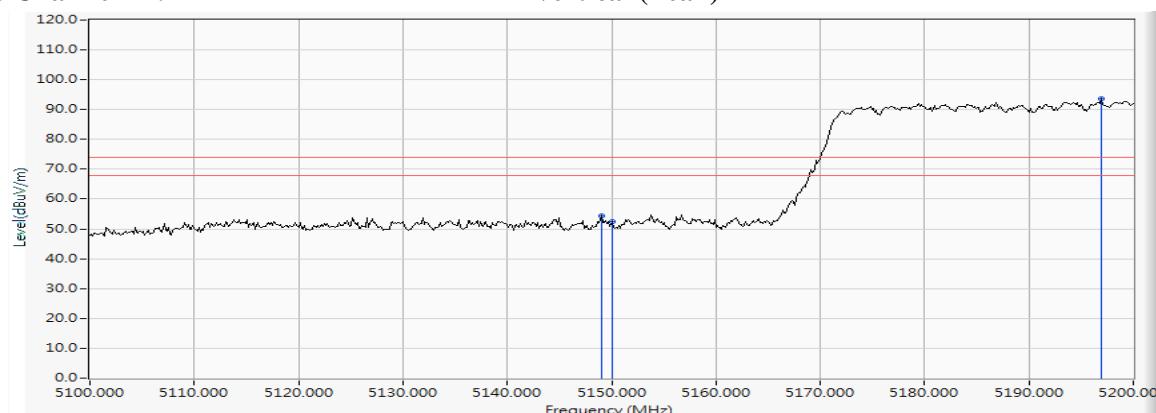
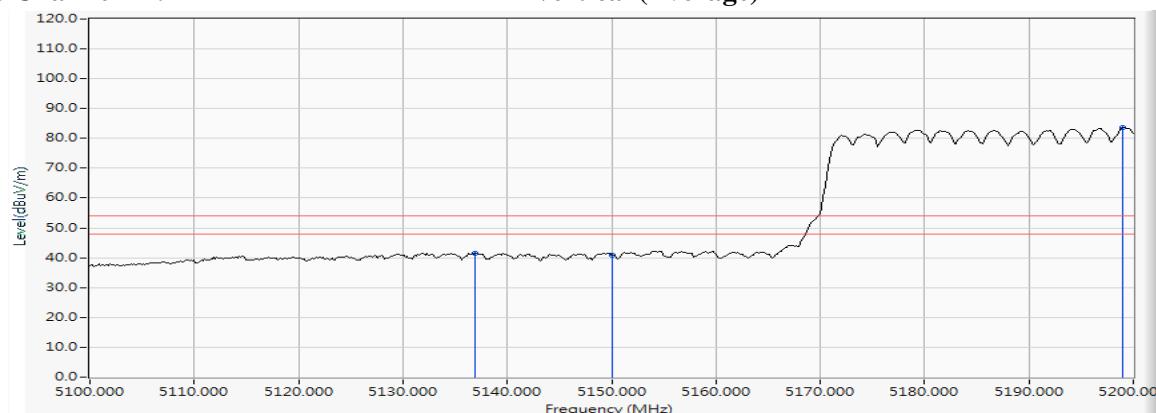


Figure Channel 42:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5290MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
58 (Peak)	5312.029	18.724	85.962	104.687	--	--	--
58 (Peak)	5350.000	18.833	46.386	65.219	74.00	54.00	Pass
58 (Peak)	5356.812	18.842	46.931	65.772	74.00	54.00	Pass
58 (Average)	5304.638	18.708	76.064	94.772	--	--	--
58 (Average)	5350.000	18.833	33.458	52.291	74.00	54.00	Pass

Figure Channel 58:

Horizontal (Peak)

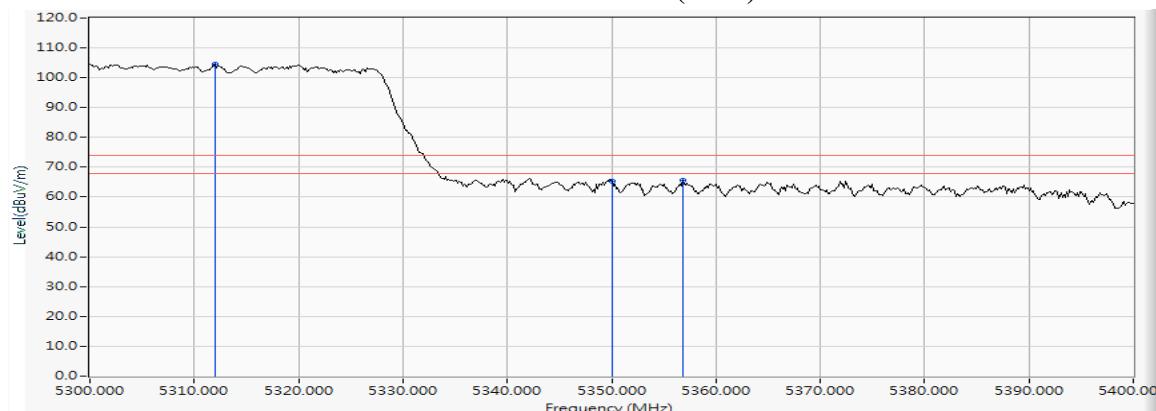
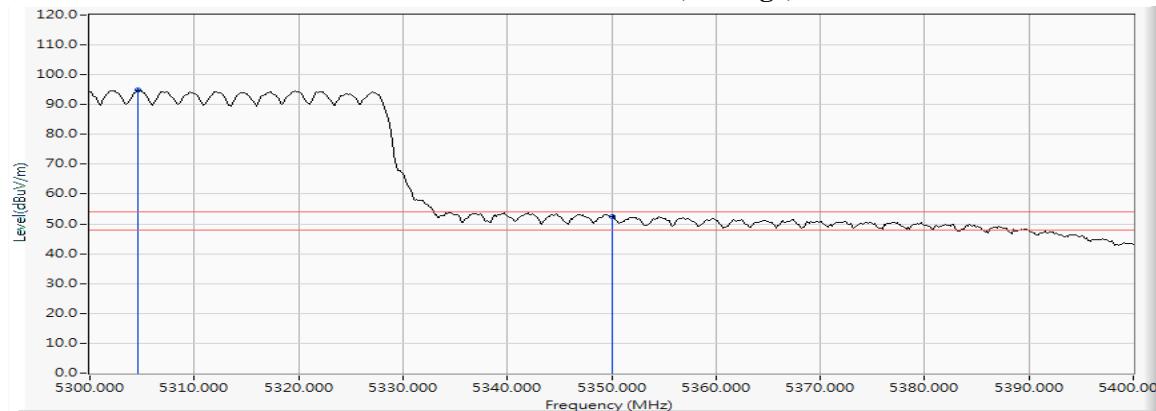


Figure Channel 58:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5290MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
58 (Peak)	5303.478	18.705	74.699	93.404	--	--	--
58 (Peak)	5350.000	18.833	31.479	50.312	74.00	54.00	Pass
58 (Peak)	5351.159	18.834	33.377	52.211	74.00	54.00	Pass
58 (Average)	5301.304	18.699	65.400	84.100	--	--	--
58 (Average)	5350.000	18.833	21.530	40.363	74.00	54.00	Pass

Figure Channel 58:

Vertical (Peak)

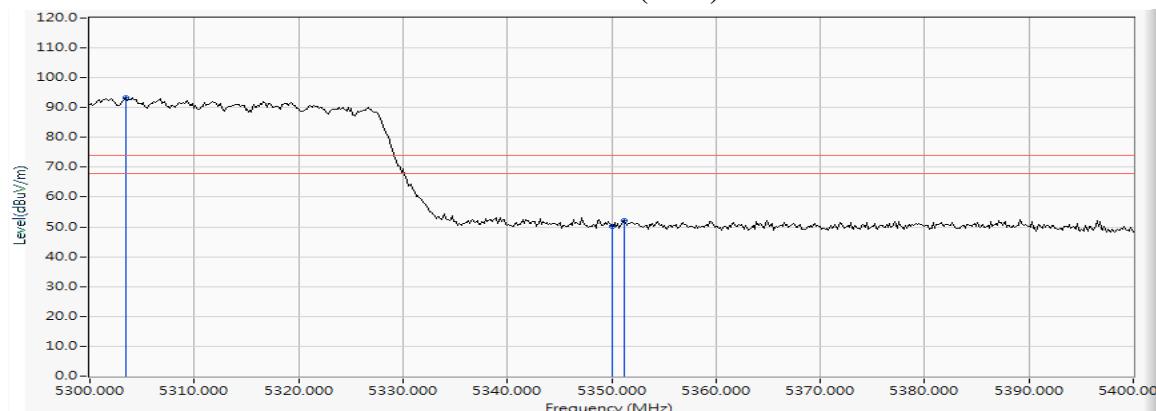
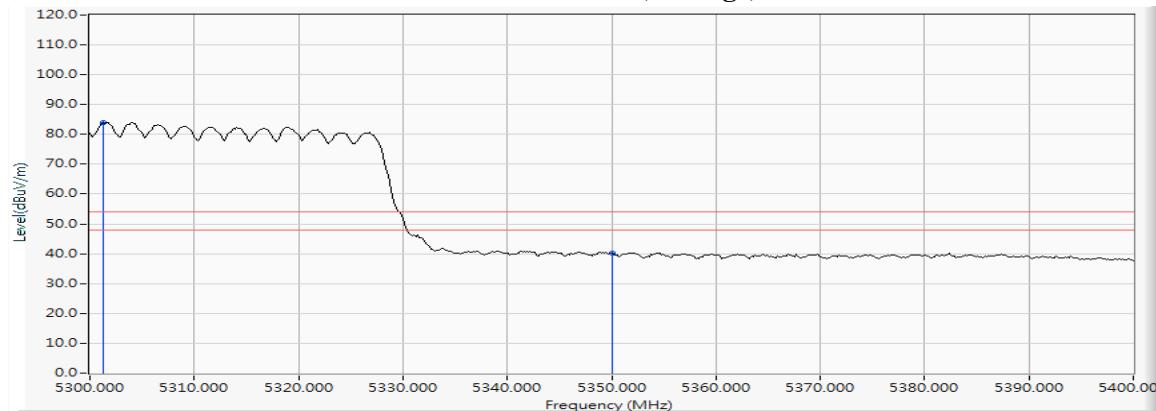


Figure Channel 58:

Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5530MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
106 (Peak)	5444.493	19.043	47.808	66.852	74.00	54.00	Pass
106 (Peak)	5460.000	19.097	46.589	65.686	74.00	54.00	Pass
106 (Peak)	5501.884	19.194	80.305	99.499	--	--	--
106 (Average)	5456.957	19.093	32.295	51.388	74.00	54.00	Pass
106 (Average)	5460.000	19.097	31.843	50.940	74.00	54.00	Pass
106 (Average)	5502.319	19.194	69.755	88.950	--	--	--

Figure Channel 106:

Horizontal (Peak)

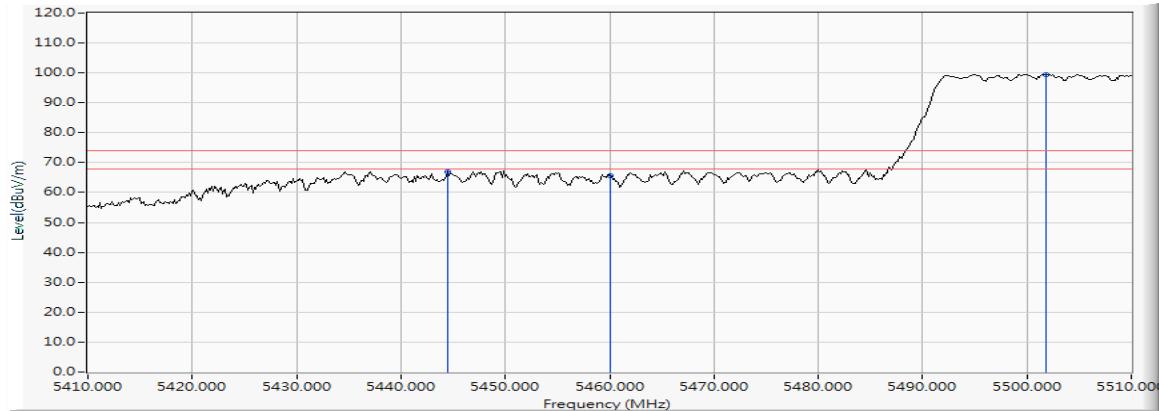
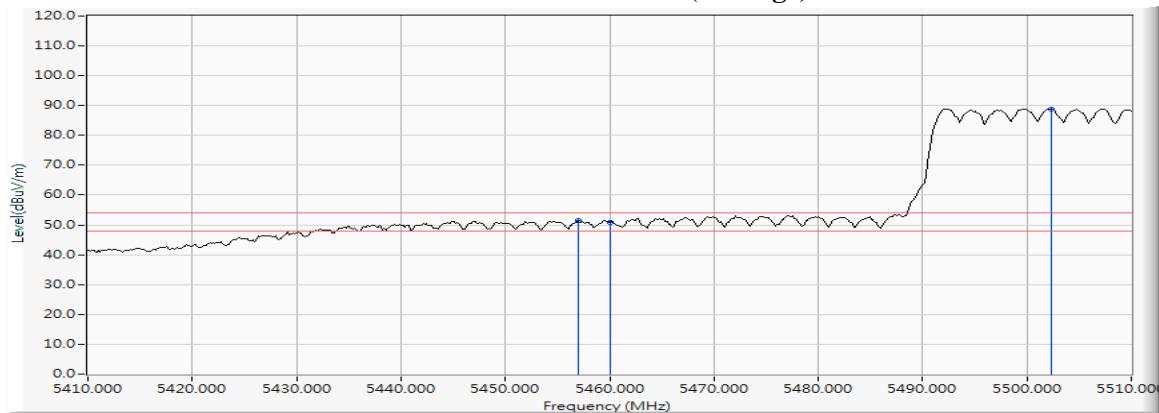


Figure Channel 106:

Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5530MHz)
 Test Date : 2018/01/11

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Peak Limit (dB μ V/m)	Average Limit (dB μ V/m)	Result
106 (Peak)	5455.217	19.086	33.763	52.849	74.00	54.00	Pass
106 (Peak)	5460.000	19.097	31.814	50.911	74.00	54.00	Pass
106 (Peak)	5494.928	19.190	64.054	83.243	--	--	--
106 (Average)	5460.000	19.097	20.623	39.720	74.00	54.00	Pass
106 (Average)	5492.319	19.185	54.828	74.013	--	--	--

Figure Channel 106:

Vertical (Peak)

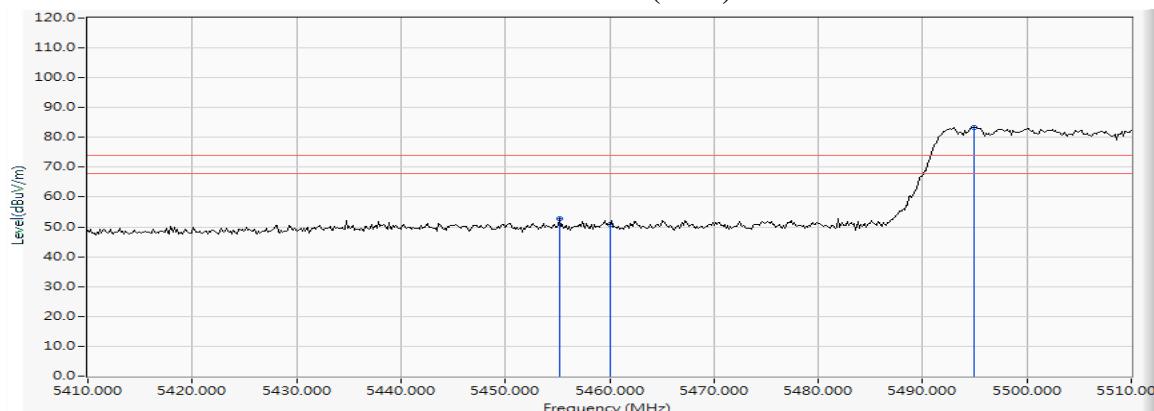
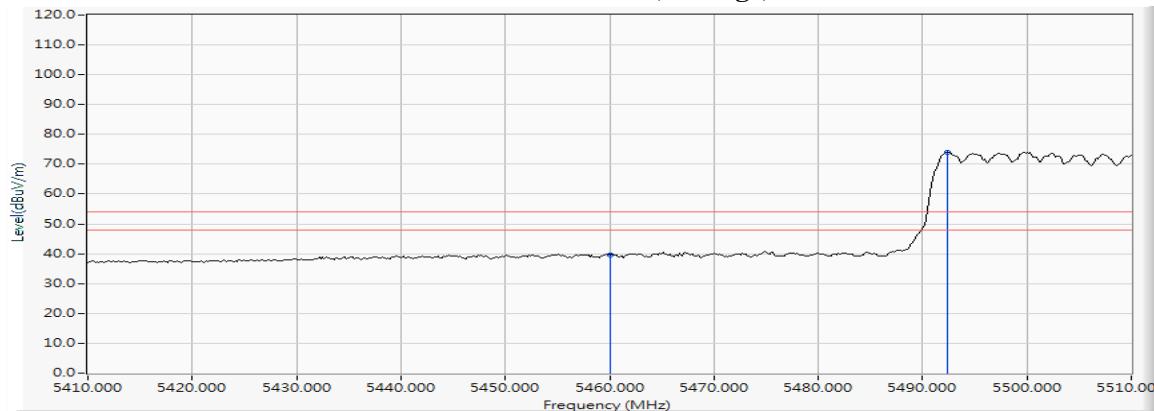


Figure Channel 106:

Vertical (Average)



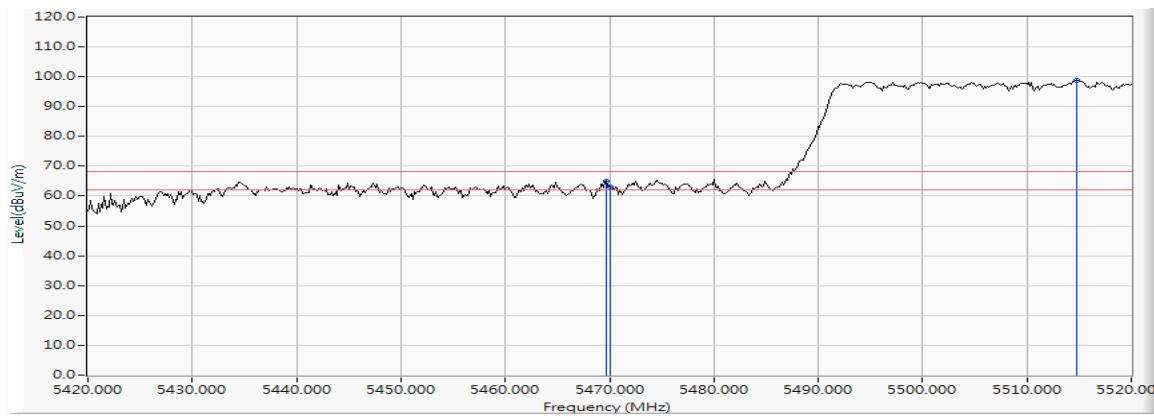
Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

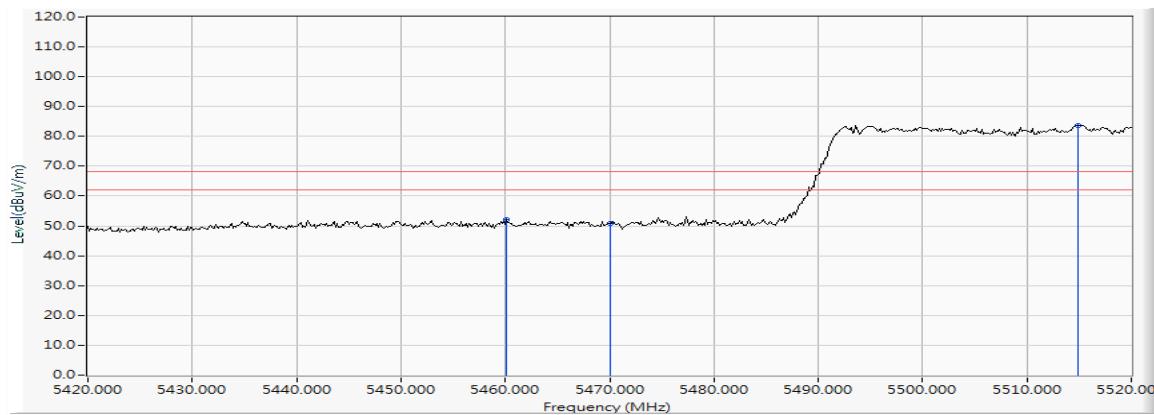
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5530MHz)
 Test Date : 2018/01/11

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5469.710	19.110	45.879	64.989	-3.231	68.220	Pass
Horizontal	5470.000	19.110	43.978	63.088	-5.132	68.220	Pass
Horizontal	5514.783	19.215	79.511	98.725	--	--	--



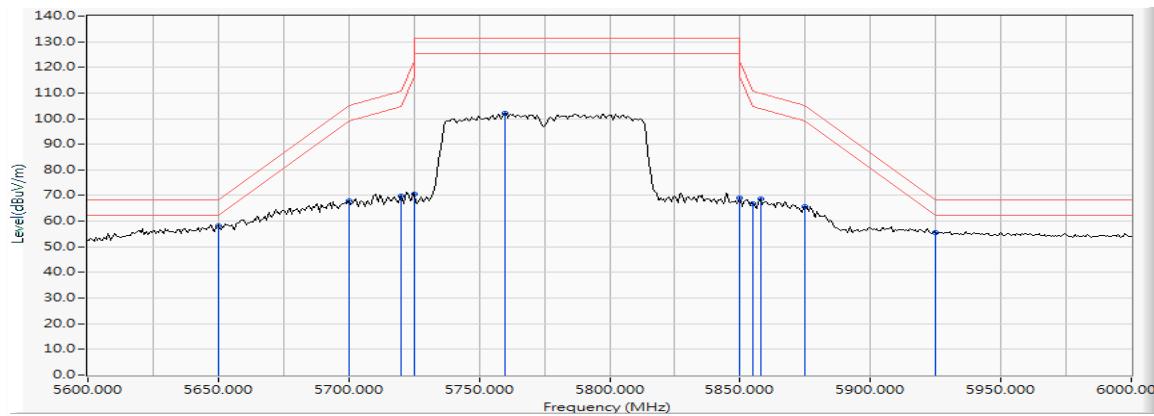
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5460.145	19.097	33.151	52.248	-15.972	68.220	Pass
Vertical	5470.000	19.110	31.630	50.740	-17.480	68.220	Pass
Vertical	5514.928	19.215	64.520	83.735	--	--	--



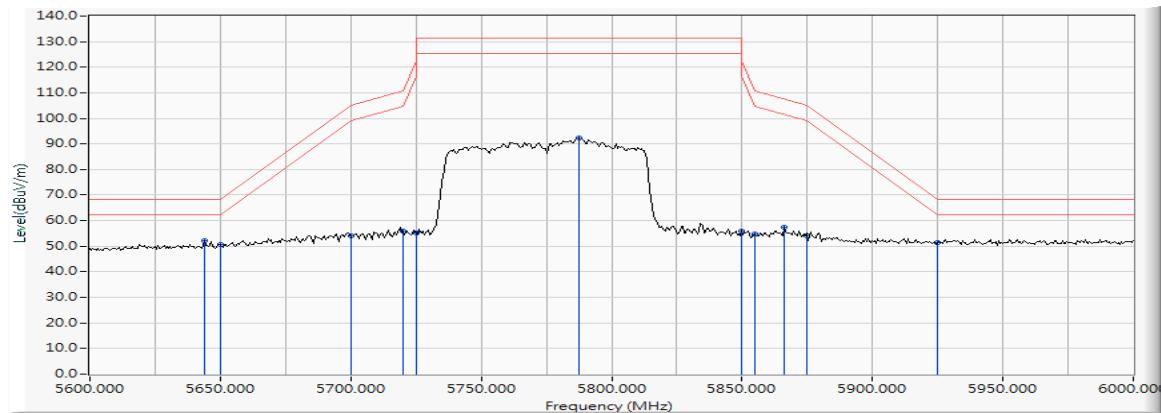
Product : Network Appliance
 Test Item : Band Edge Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)
 Test Date : 2018/01/11

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Horizontal	5650.000	19.535	38.712	58.248	-9.972	68.220	Pass
Horizontal	5700.000	19.659	48.140	67.799	-37.401	105.200	Pass
Horizontal	5720.000	19.711	50.280	69.991	-40.809	110.800	Pass
Horizontal	5725.000	19.725	50.998	70.723	-51.477	122.200	Pass
Horizontal	5760.000	19.796	82.319	102.115	--	--	--
Horizontal	5850.000	19.992	49.000	68.992	-53.208	122.200	Pass
Horizontal	5855.000	20.003	46.842	66.844	-43.956	110.800	Pass
Horizontal	5857.971	20.008	48.703	68.711	-41.257	109.968	Pass
Horizontal	5875.000	20.048	45.675	65.722	-39.478	105.200	Pass
Horizontal	5925.000	20.181	35.315	55.497	-12.723	68.220	Pass

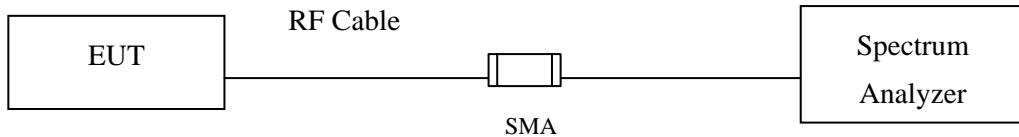


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Result
Vertical	5644.058	19.522	32.718	52.240	-15.980	68.220	Pass
Vertical	5650.000	19.535	31.003	50.539	-17.681	68.220	Pass
Vertical	5700.000	19.659	34.340	53.999	-51.201	105.200	Pass
Vertical	5720.000	19.711	36.272	55.983	-54.817	110.800	Pass
Vertical	5725.000	19.725	35.601	55.326	-66.874	122.200	Pass
Vertical	5787.246	19.856	72.377	92.233	--	--	--
Vertical	5850.000	19.992	35.950	55.942	-66.258	122.200	Pass
Vertical	5855.000	20.003	34.896	54.898	-55.902	110.800	Pass
Vertical	5866.087	20.027	37.495	57.522	-50.174	107.696	Pass
Vertical	5875.000	20.048	34.075	54.122	-51.078	105.200	Pass
Vertical	5925.000	20.181	31.276	51.458	-16.762	68.220	Pass



7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.3. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Uncertainty

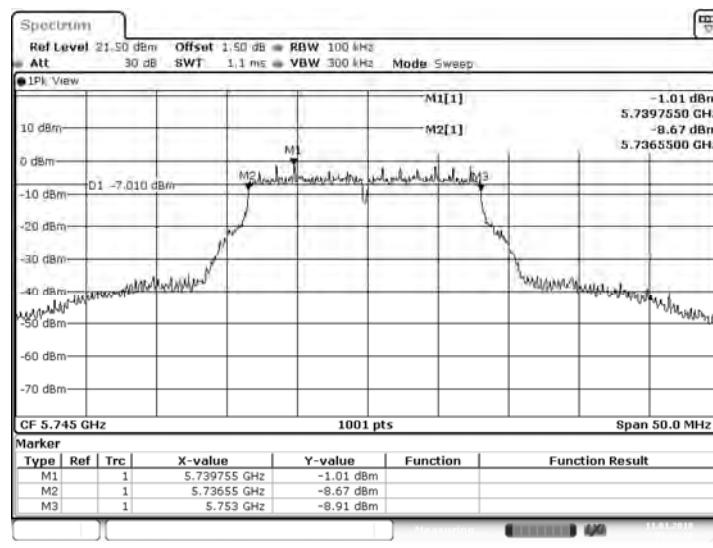
±671.83Hz

7.5. Test Result of Occupied Bandwidth

Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)
 Test Date : 2018/01/11

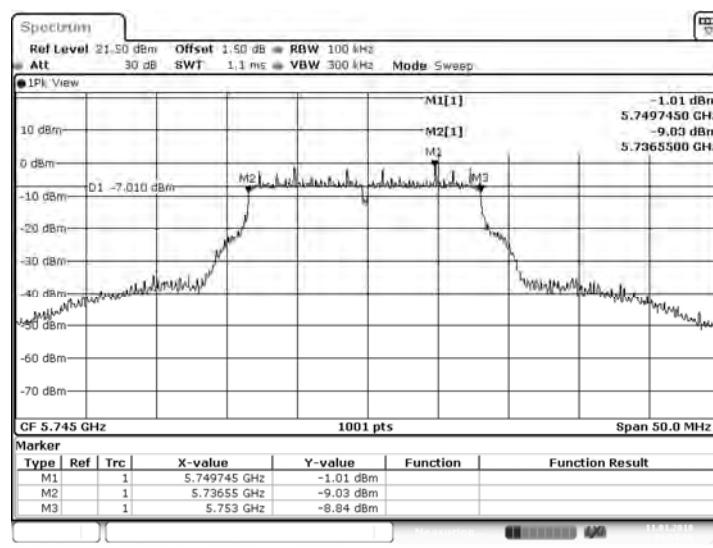
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	16450	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	16450	>500	Pass

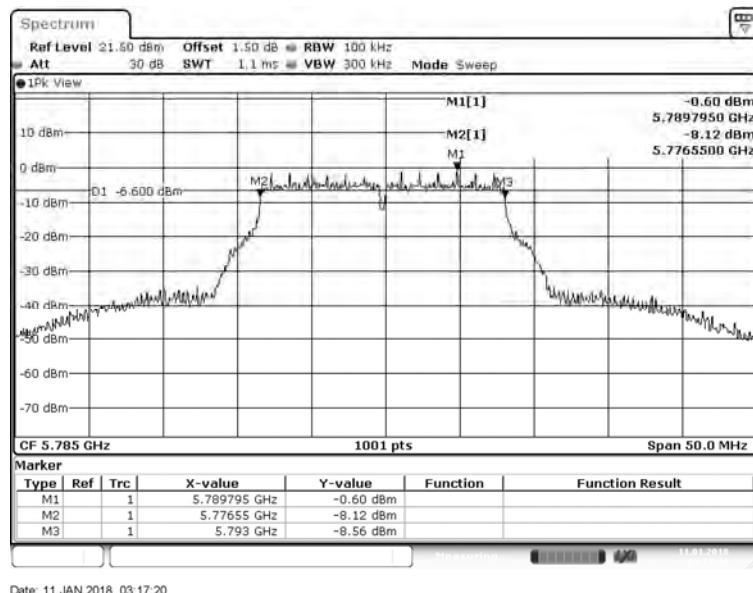
Figure Channel 149: (Chain B)



Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)
 Test Date : 2018/01/11

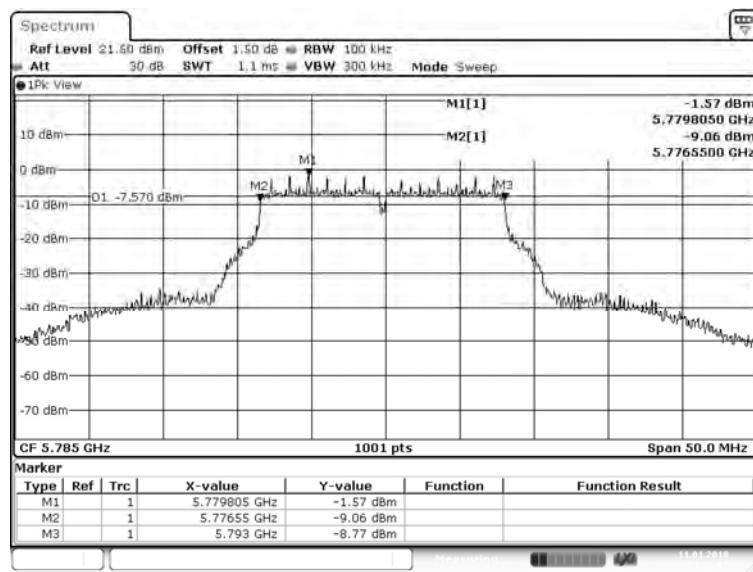
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16450	>500	Pass

Figure Channel 157: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16450	>500	Pass

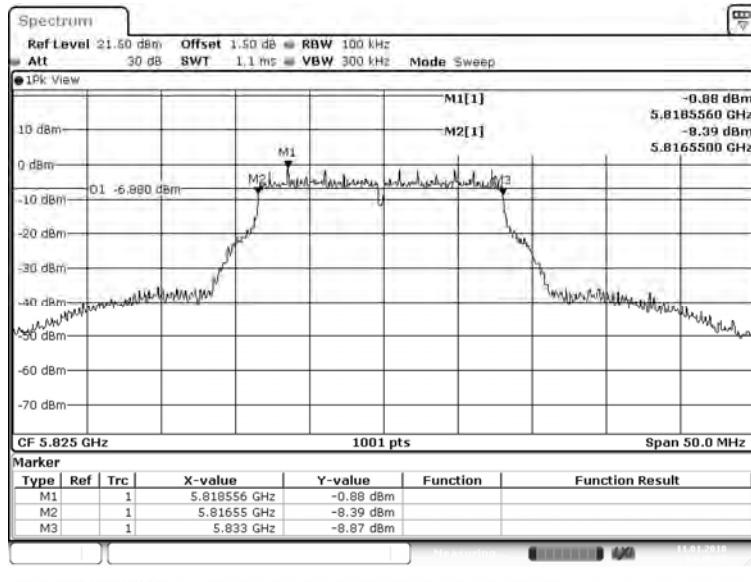
Figure Channel 157: (Chain B)



Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)
 Test Date : 2018/01/11

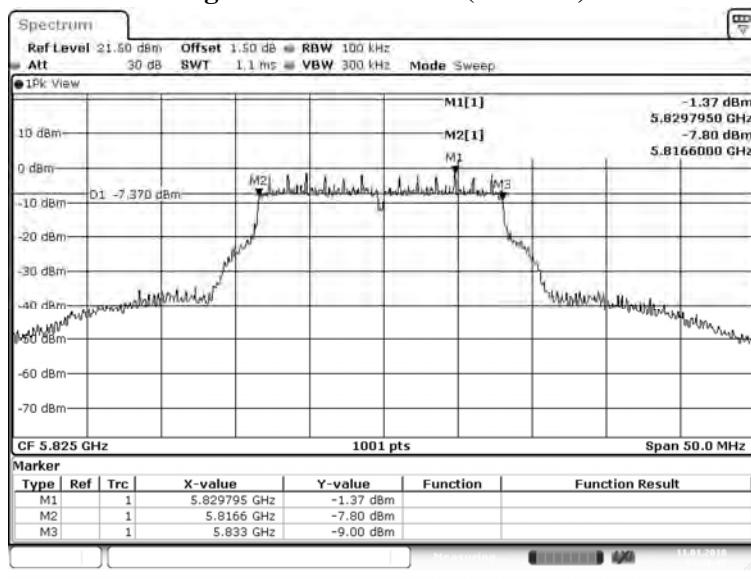
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16450	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16400	>500	Pass

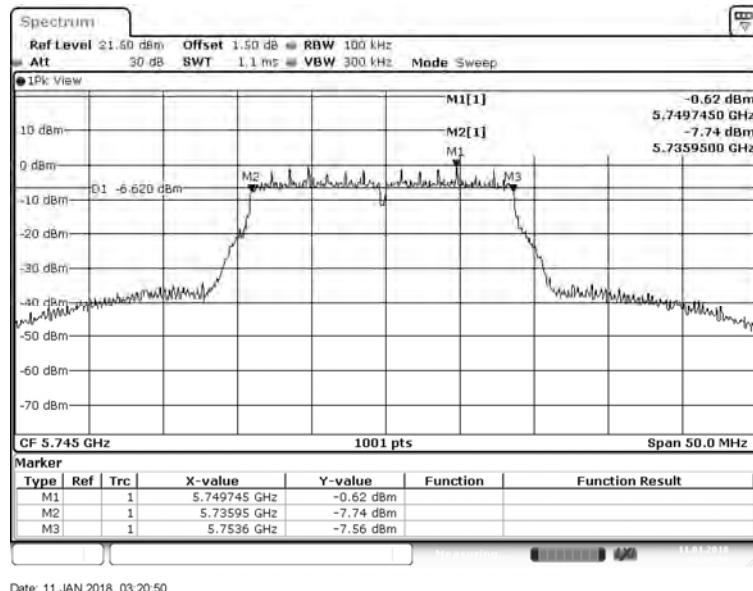
Figure Channel 165: (Chain B)



Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)
 Test Date : 2018/01/11

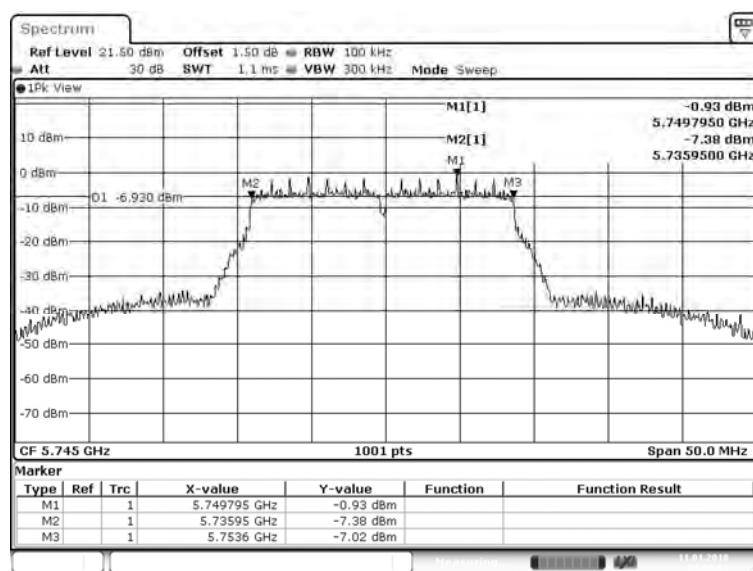
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17650	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17650	>500	Pass

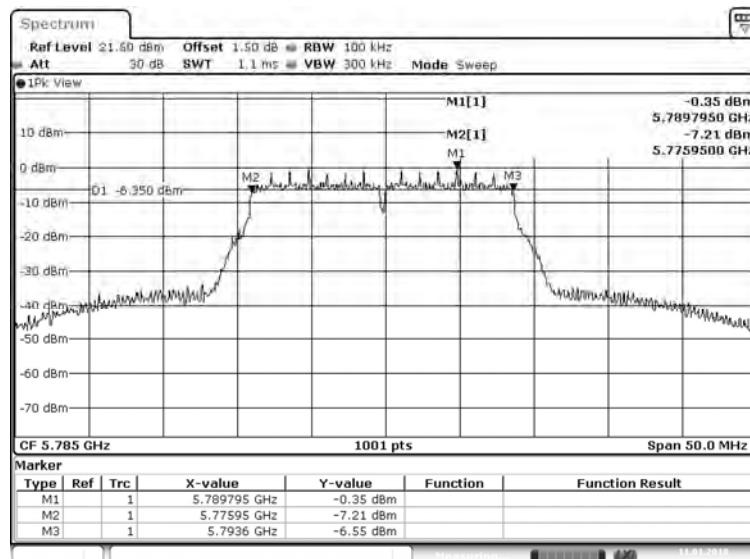
Figure Channel 149: (Chain B)



Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)
 Test Date : 2018/01/11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17650	>500	Pass

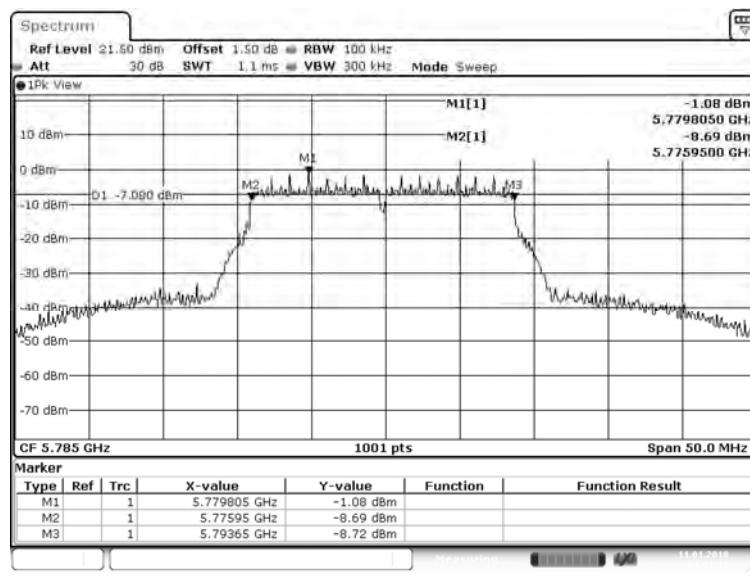
Figure Channel 157: (Chain A)



Date: 11.JAN.2018 03:22:03

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17700	>500	Pass

Figure Channel 157: (Chain B)

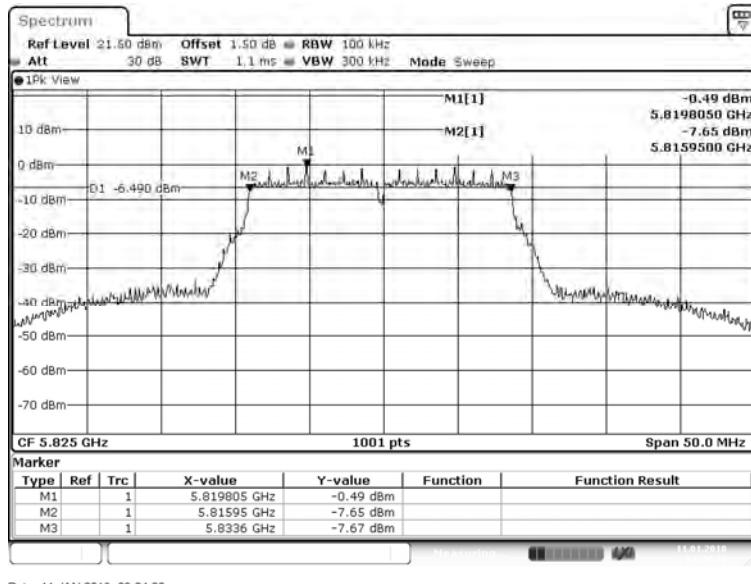


Date: 11.JAN.2018 04:01:15

Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)
 Test Date : 2018/01/11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17650	>500	Pass

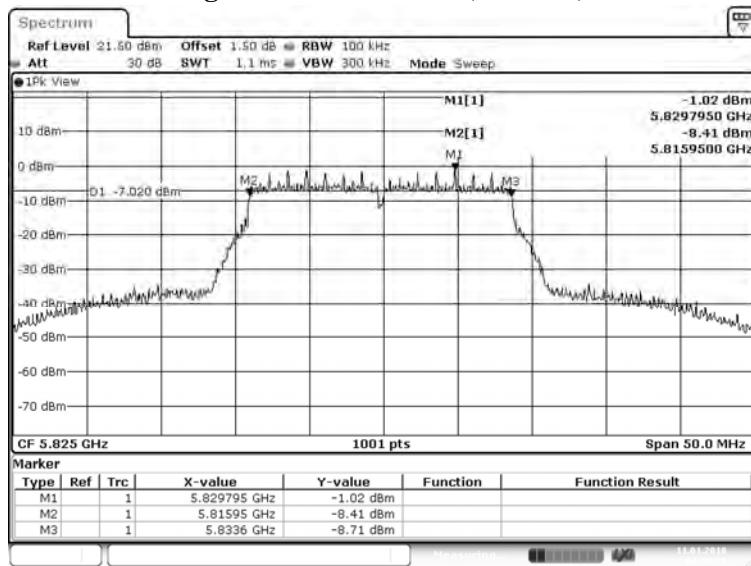
Figure Channel 165: (Chain A)



Date: 11.JAN.2018 03:24:20

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17650	>500	Pass

Figure Channel 165: (Chain B)

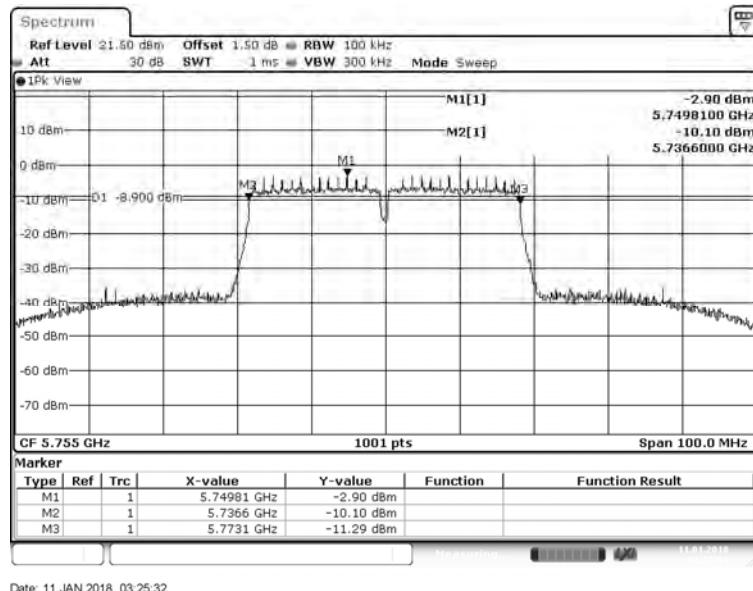


Date: 11.JAN.2018 04:03:58

Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps)
 Test Date : 2018/01/11

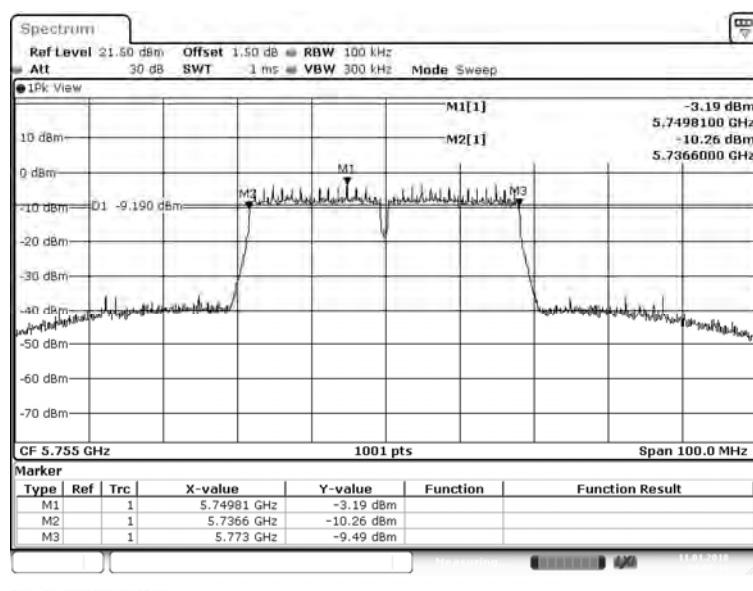
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36500	>500	Pass

Figure Channel 151: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36400	>500	Pass

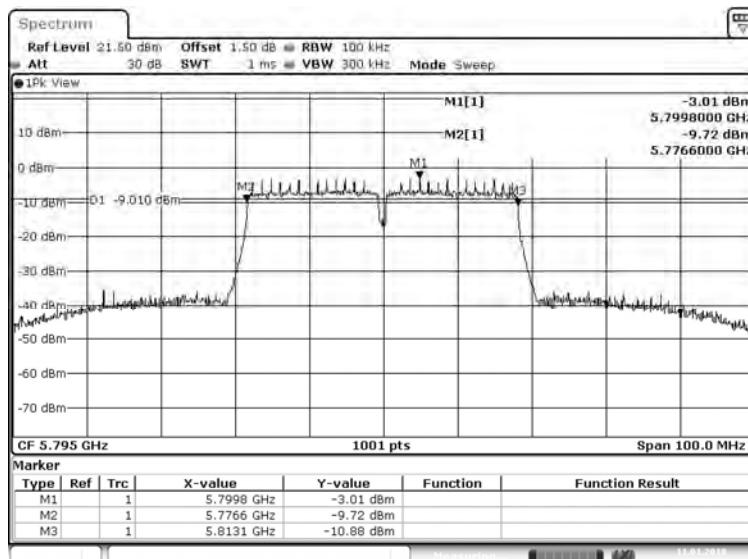
Figure Channel 151: (Chain B)



Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps)
 Test Date : 2018/01/11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36500	>500	Pass

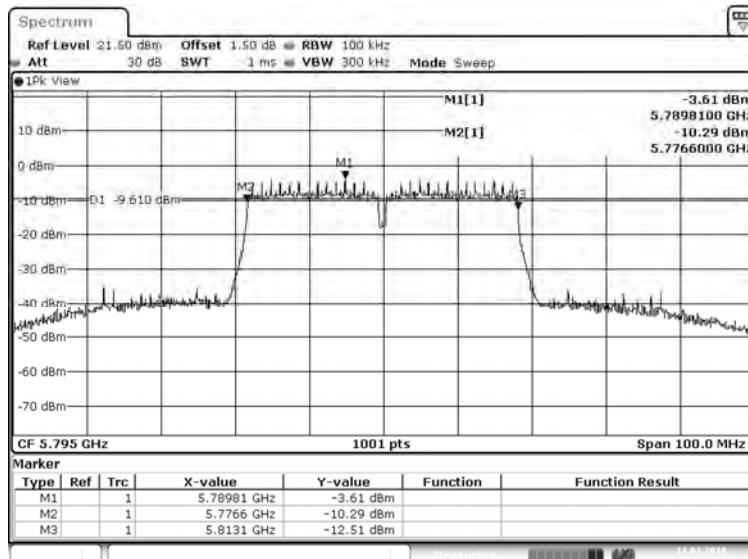
Figure Channel 159: (Chain A)



Date: 11.JAN.2018 03:26:44

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36500	>500	Pass

Figure Channel 159: (Chain B)

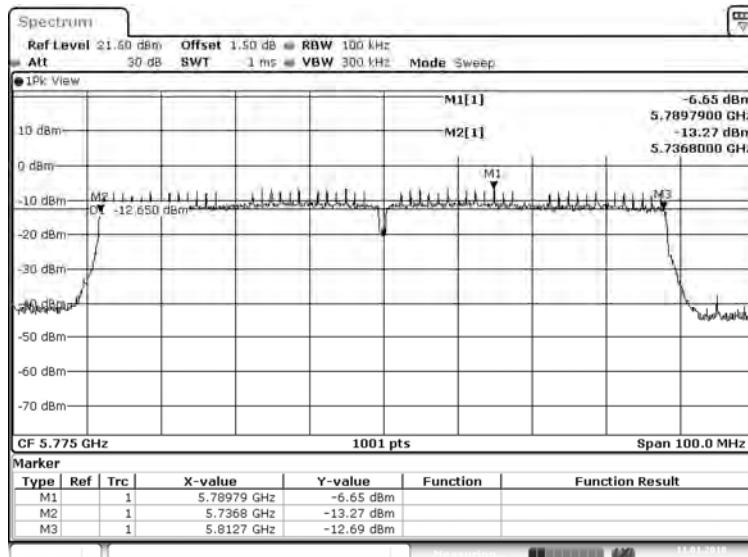


Date: 11.JAN.2018 04:06:26

Product : Network Appliance
 Test Item : Occupied Bandwidth Data
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps)
 Test Date : 2018/01/11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	75900	>500	Pass

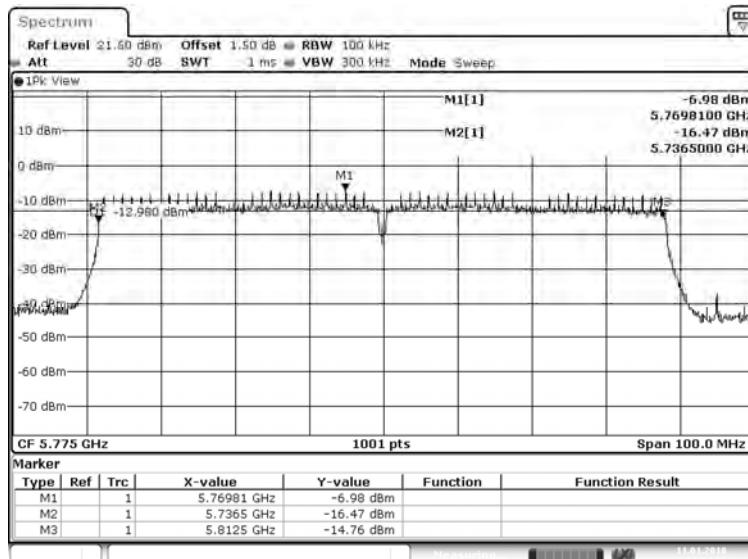
Figure Channel 155: (Chain A)



Date: 11.JAN.2018 04:50:45

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	76000	>500	Pass

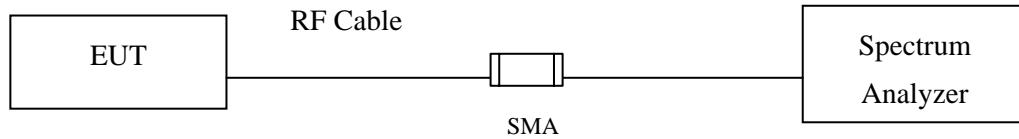
Figure Channel 155: (Chain B)



Date: 11.JAN.2018 04:34:07

8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to U-NII test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

8.3. Uncertainty

± 2.31msec

8.4. Test Result of Duty Cycle

Product : Network Appliance
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:

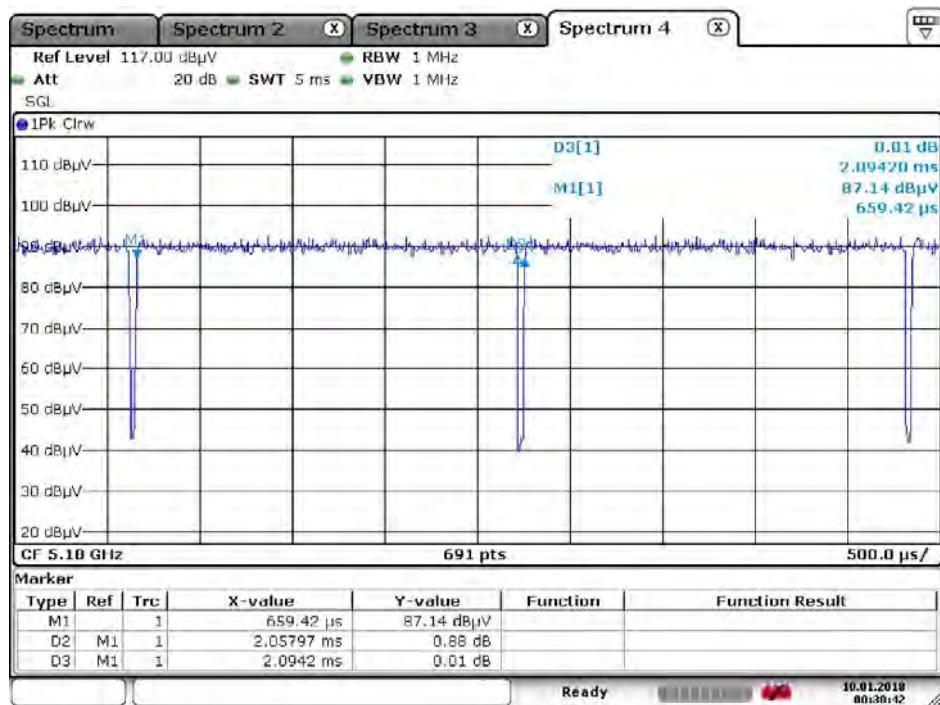
$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

$$\text{Duty Factor} = 10 \log (1/\text{Duty Cycle})$$

Results:

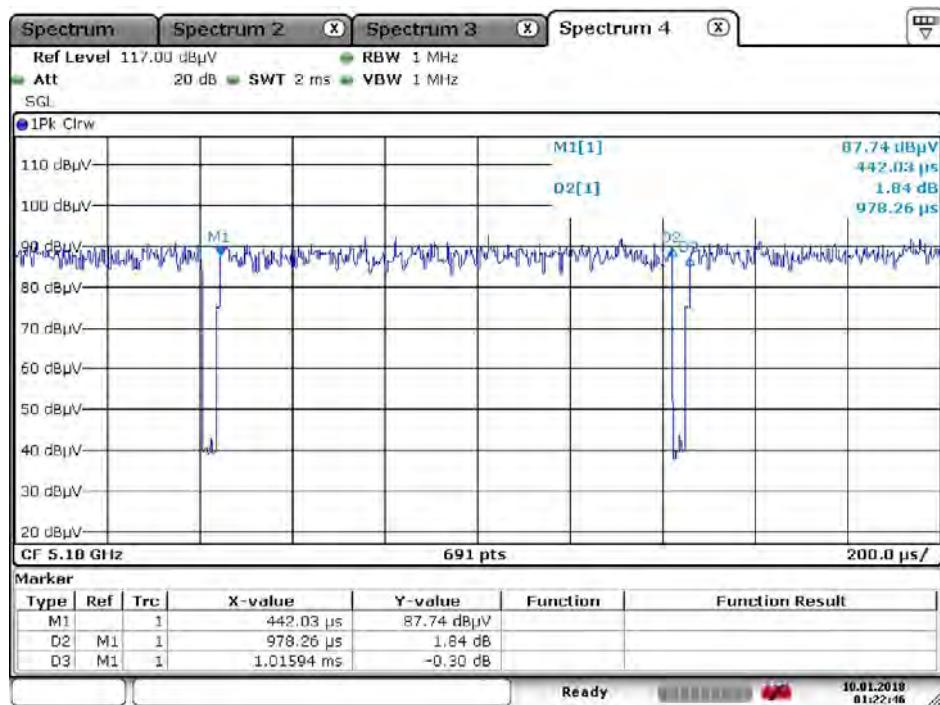
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	2.0579	2.0942	98.27	0.08
802.11n20	0.9782	1.0159	96.29	0.16
802.11n40	0.4942	0.5260	93.95	0.27
802.11ac20	1.9130	1.9637	97.42	0.11
802.11ac40	0.9202	0.9927	92.70	0.33
802.11ac80	0.4623	0.4913	94.10	0.26

802.11a



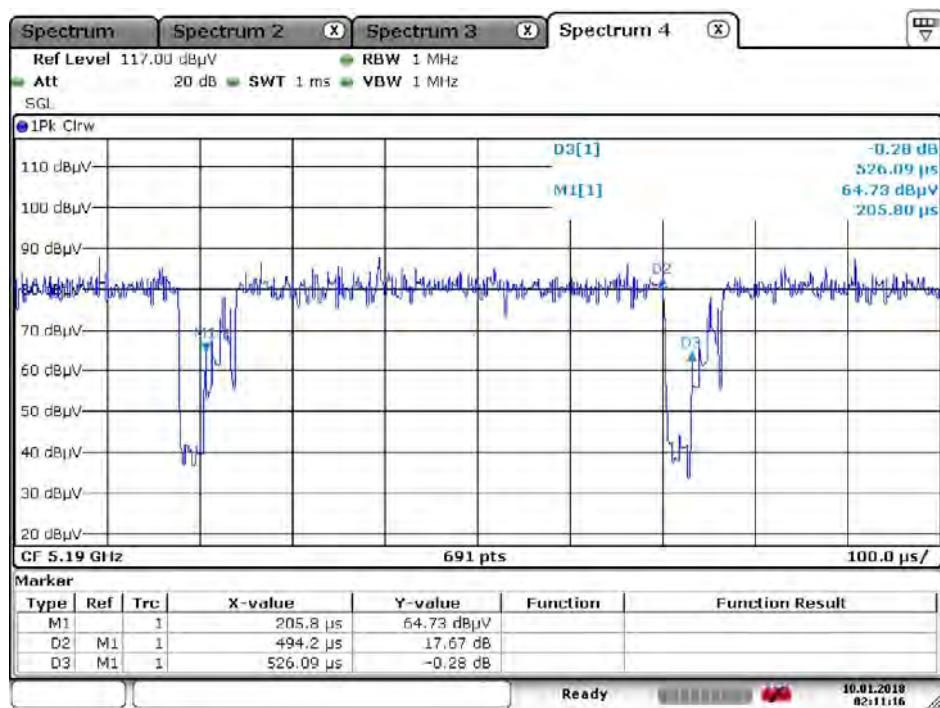
Date: 10 JAN 2018 00:30:42

802.11n20



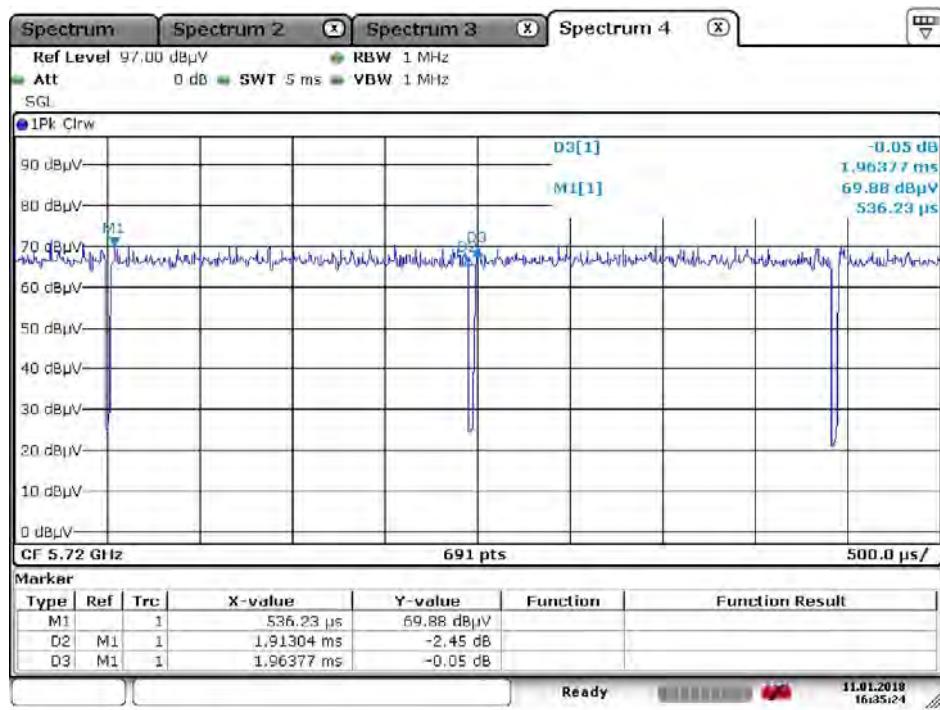
Date: 10 JAN 2018 01:22:46

802.11n40



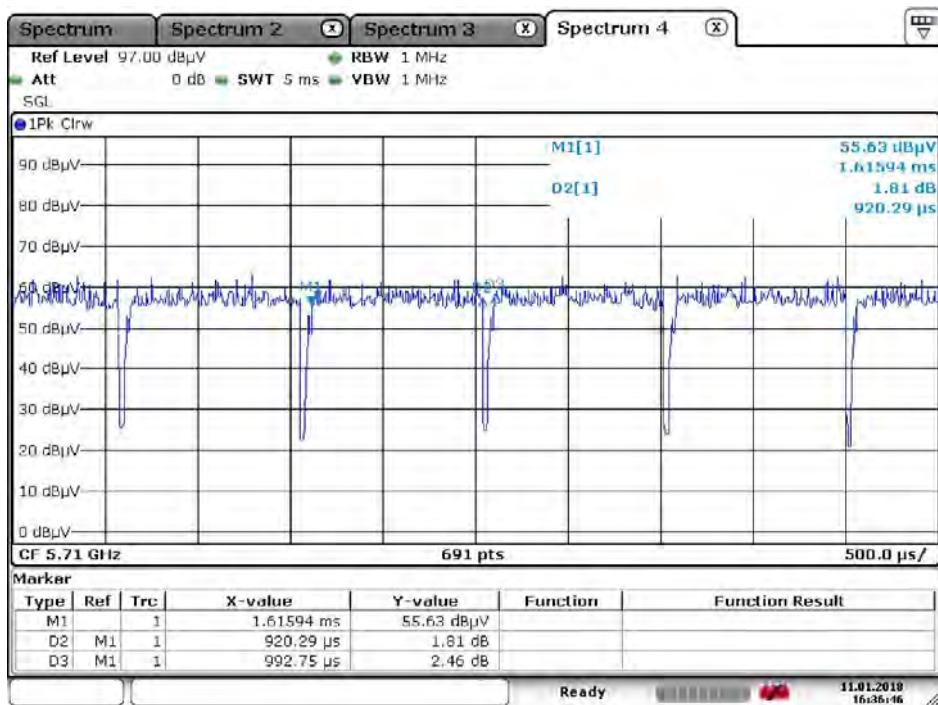
Date: 10 JAN 2018 02:11:16

802.11ac20



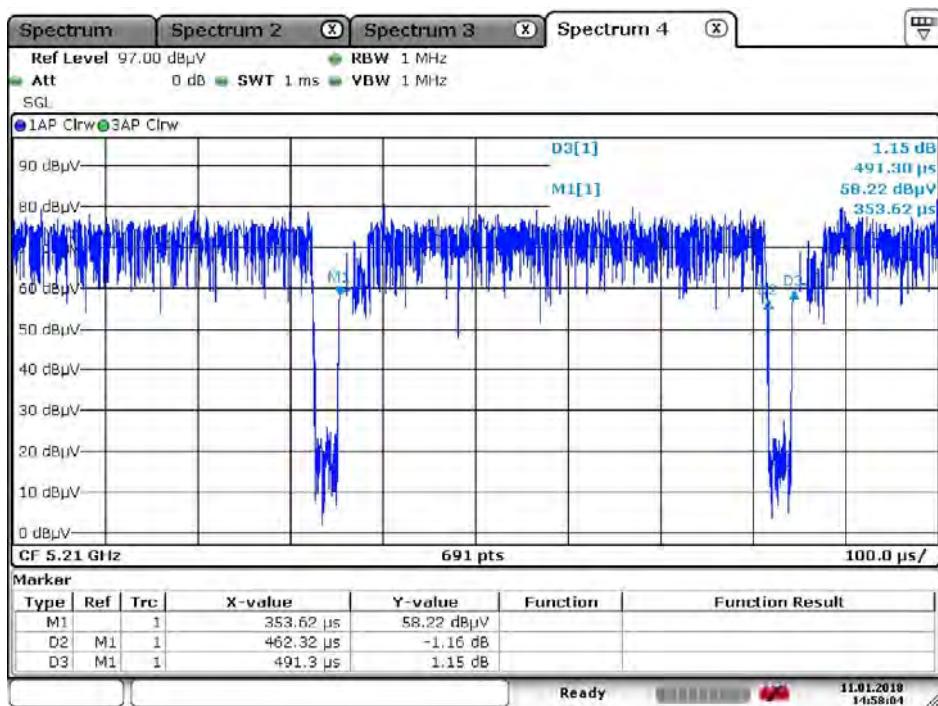
Date: 11 JAN 2018 16:35:24

802.11ac40



Date: 11 JAN 2018 16:36:46

802.11ac80



Date: 11 JAN 2018 14:58:04

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.