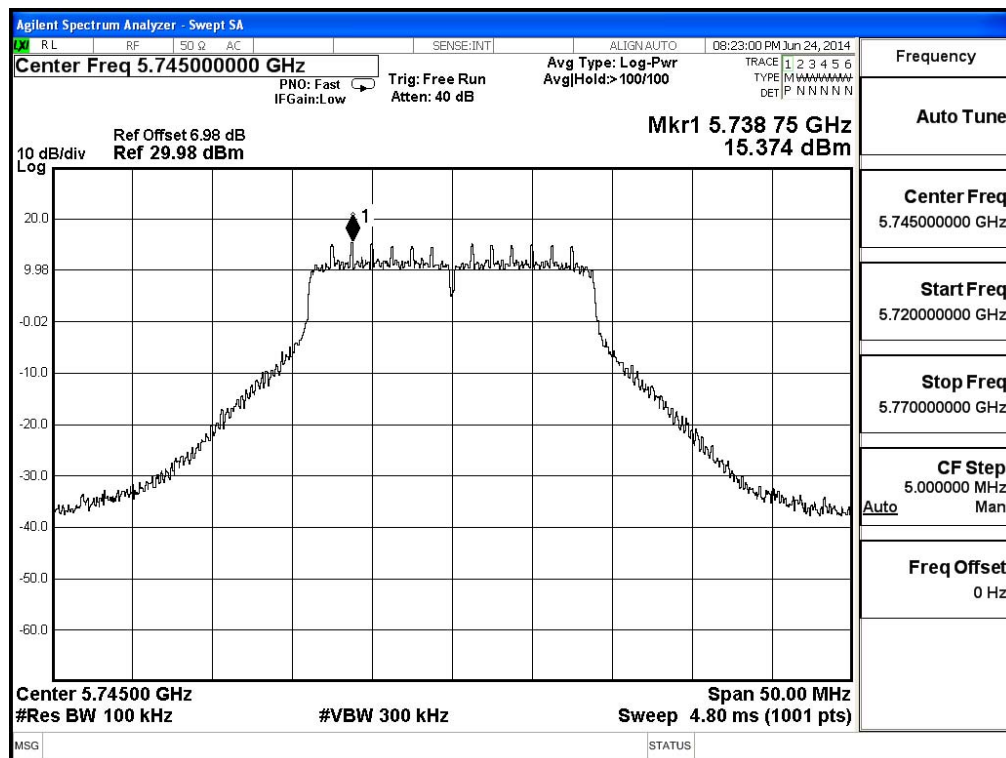


Product : Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) - Omni Antenna

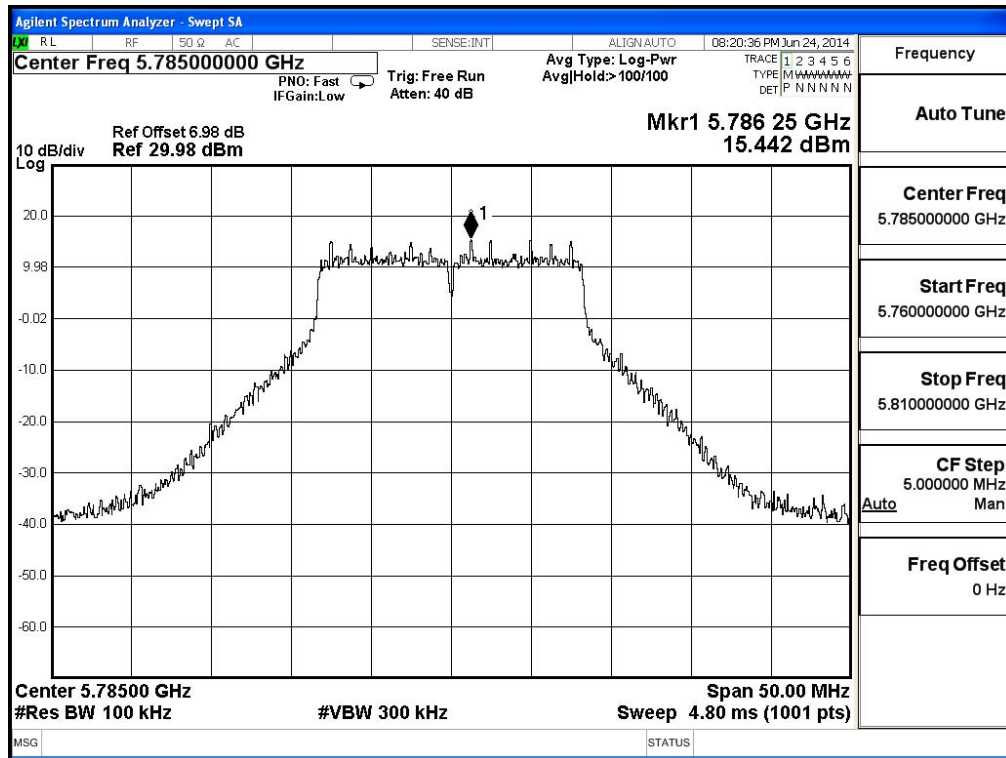
Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm) ₁	Required Limit (dBm)	Result
149	5745	A	15.374	18.384	<23	Pass
		B	15.922	18.932	<23	Pass
157	5785	A	15.442	18.452	<23	Pass
		B	15.722	18.732	<23	Pass
165	5825	A	15.943	18.953	<23	Pass
		B	15.930	18.940	<23	Pass

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

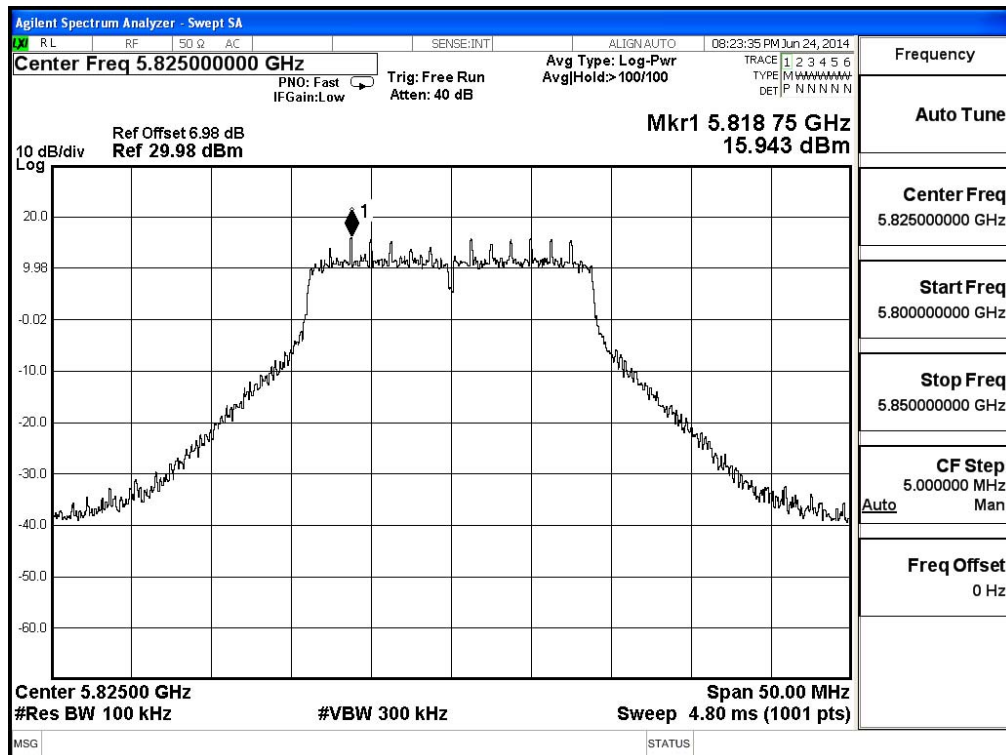
Channel 149 – Chain A



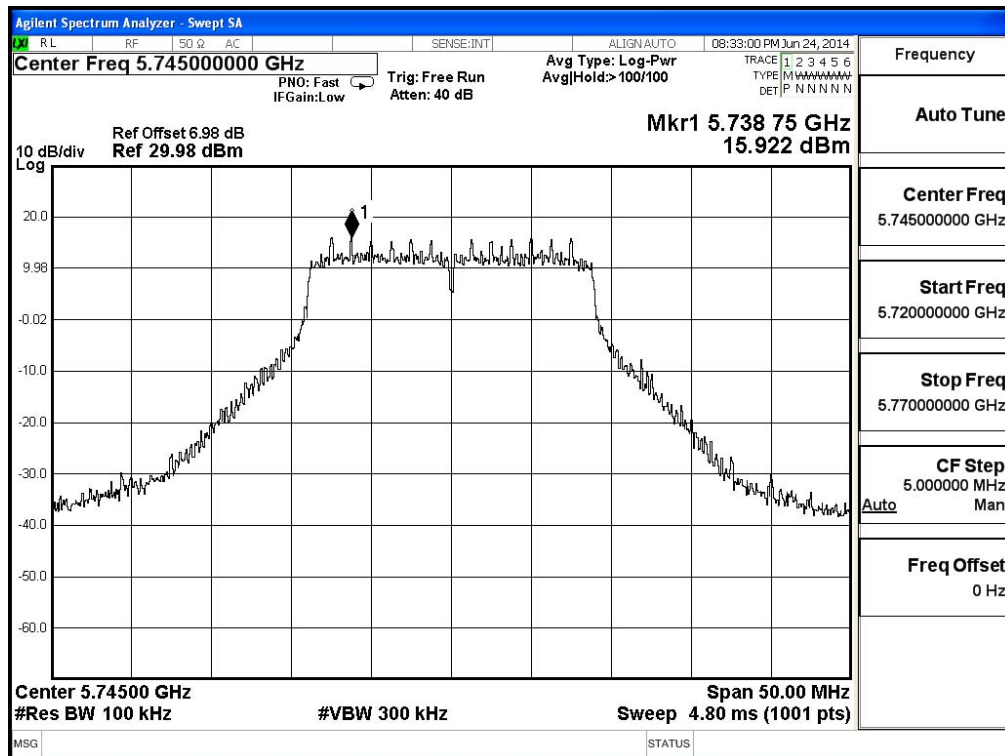
Channel 157 – Chain A



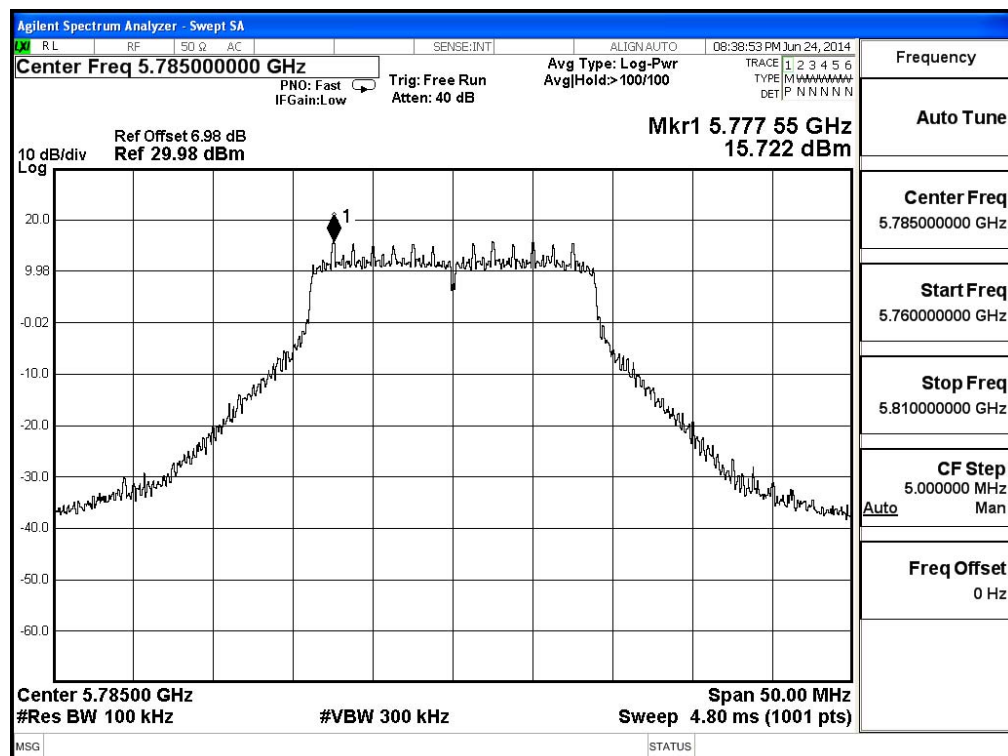
Channel 165 – Chain A



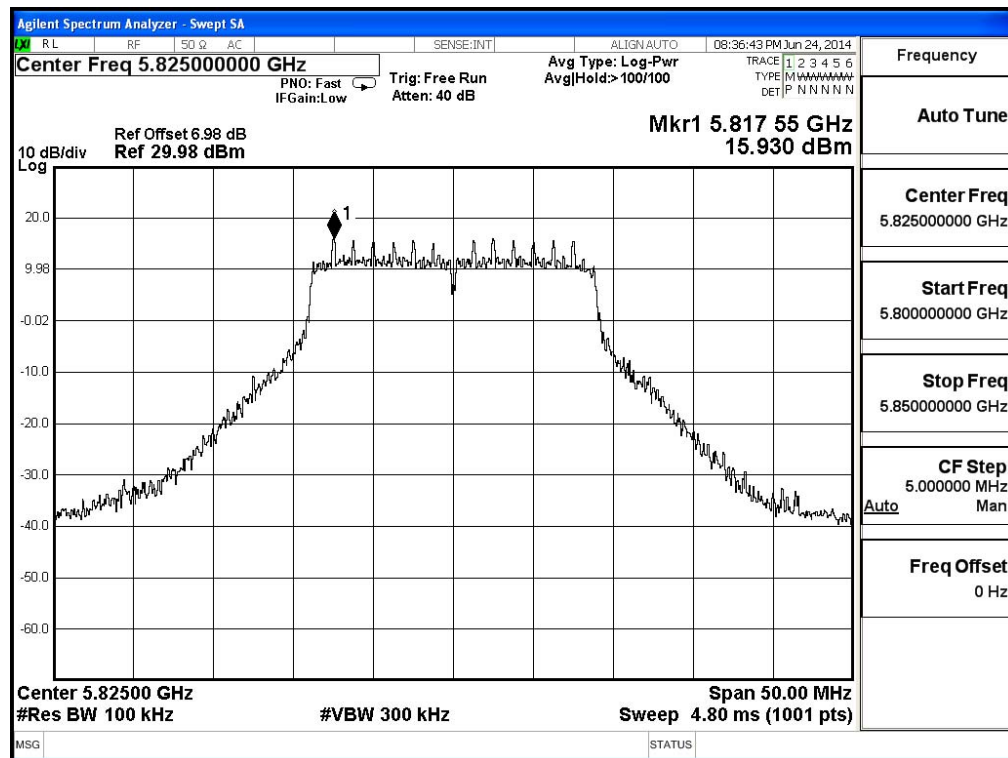
Channel 149 – Chain B



Channel 157 – Chain B



Channel 165 – Chain B

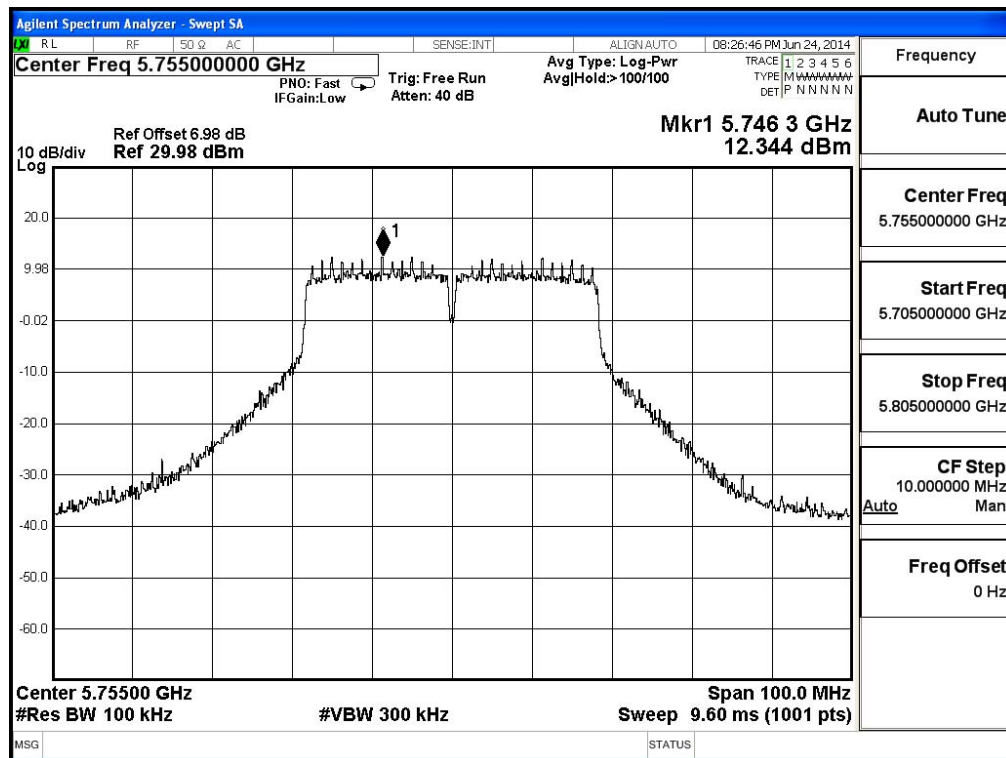


Product : Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) - Omni Antenna

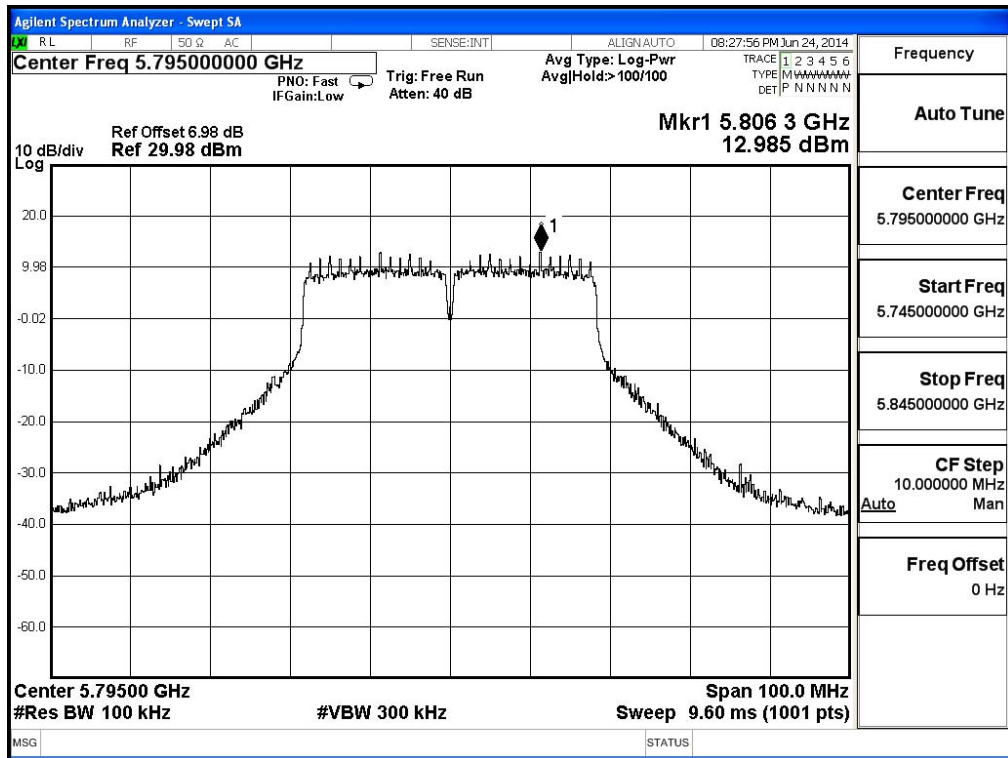
Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm) _i	Required Limit (dBm)	Result
151	5755	A	12.344	15.354	<23	Pass
		B	12.522	15.532	<23	Pass
159	5795	A	12.985	15.995	<23	Pass
		B	12.002	15.012	<23	Pass

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

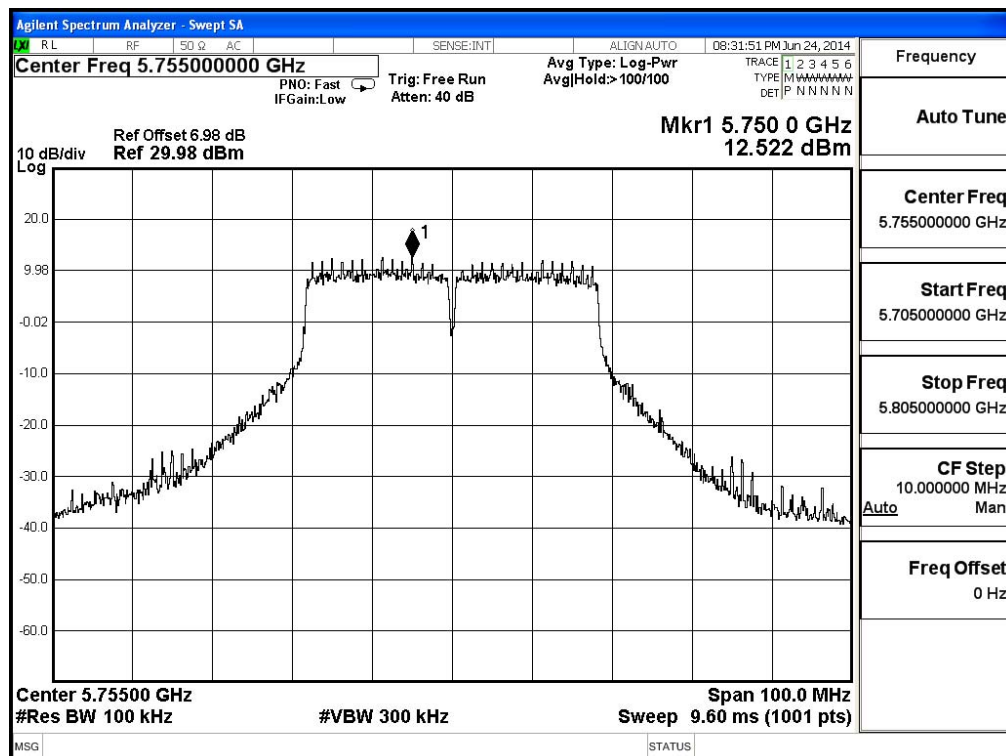
Channel 151 – Chain A



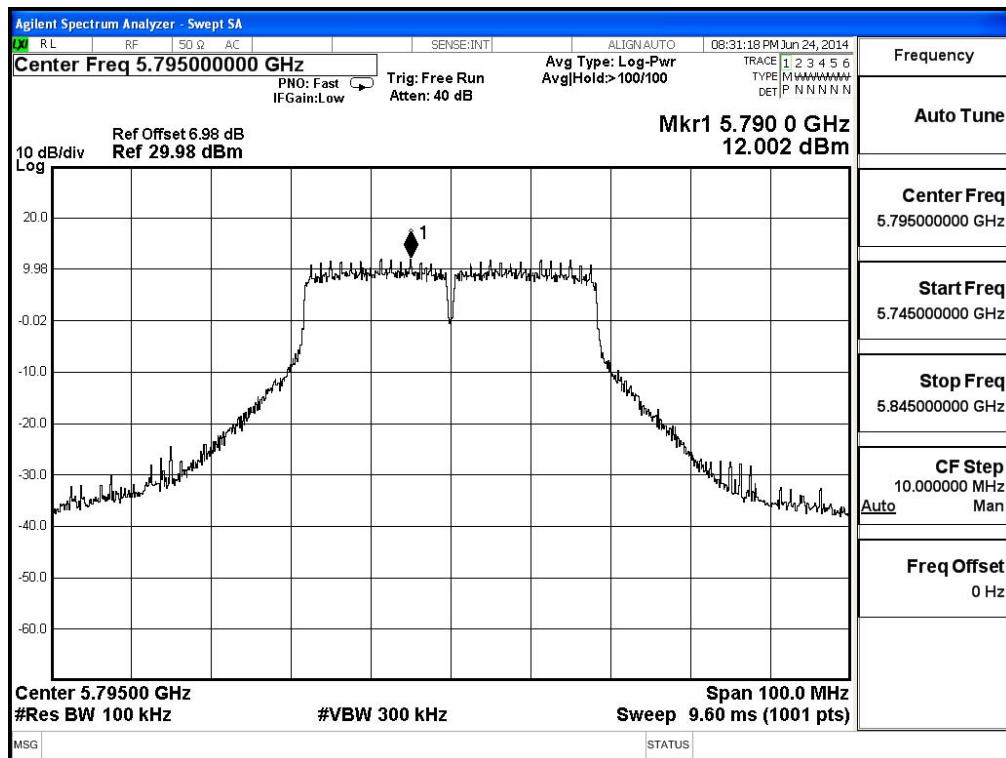
Channel 159 – Chain A



Channel 151 – Chain B



Channel 159 – Chain B

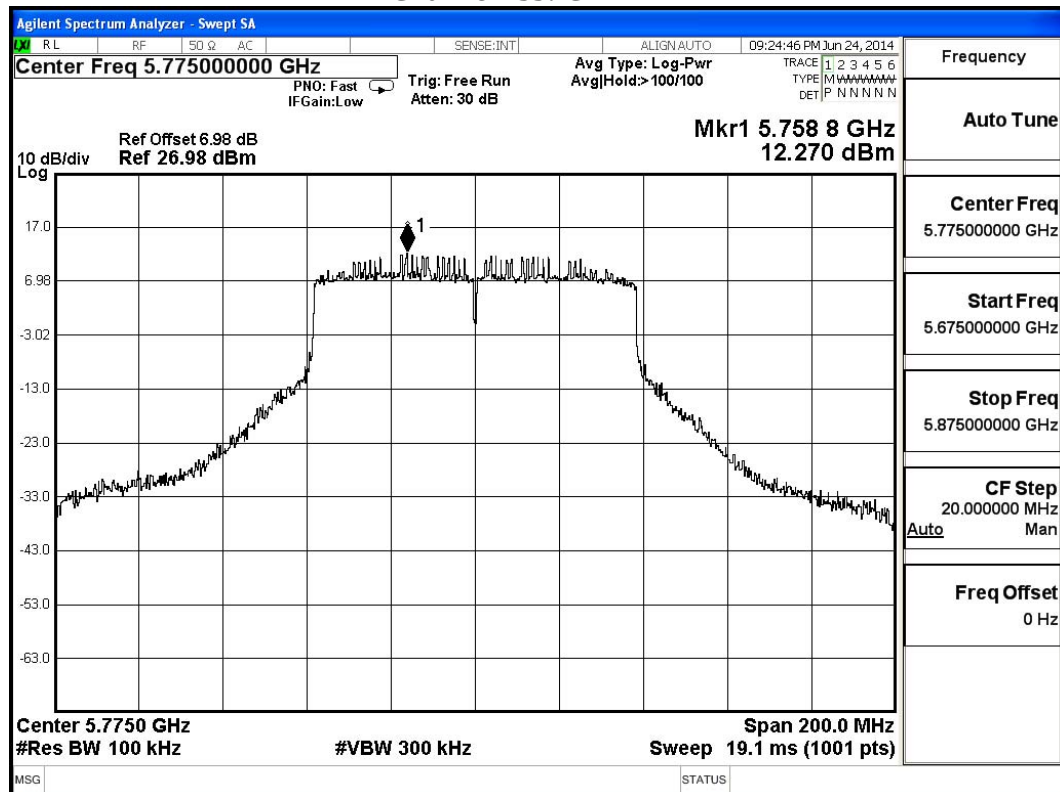


Product : Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) - Omni Antenna

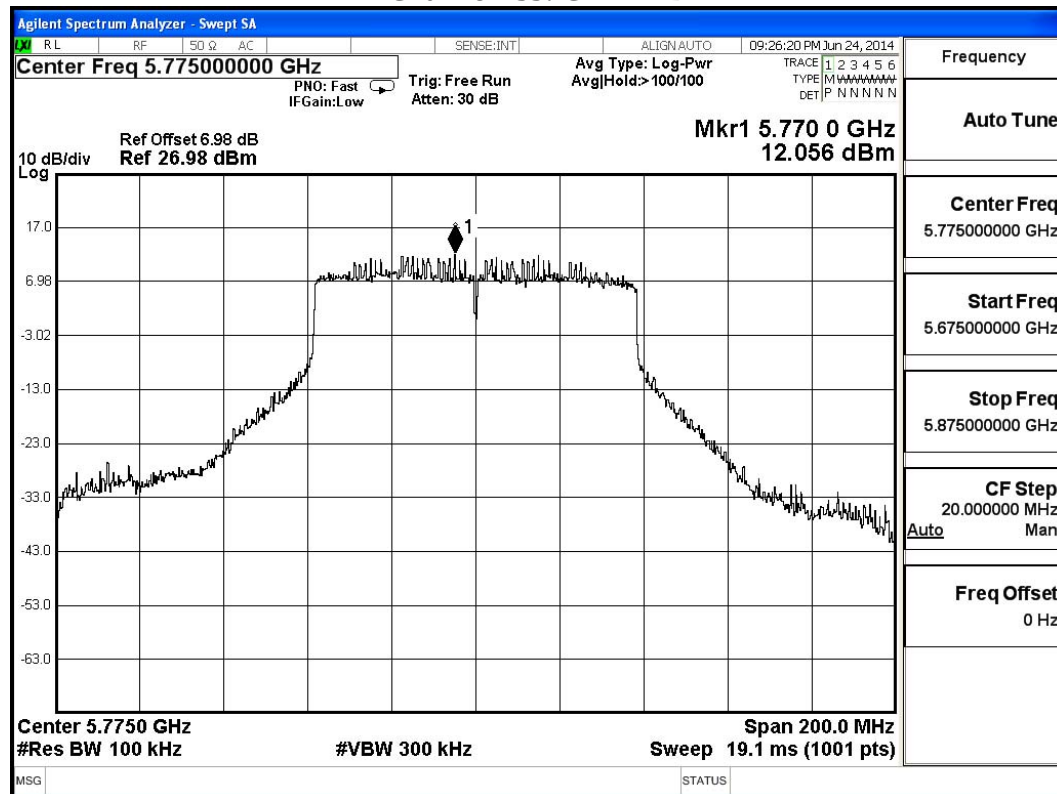
Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSPD/MHz (dBm) ₁	Required Limit (dBm)	Result
155	5775	A	12.270	15.280	<23	Pass
		B	12.056	15.066	<23	Pass

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 155: CHAIN A



Channel 155: CHAIN B



5. Radiated Emission

5.1. Test Equipment

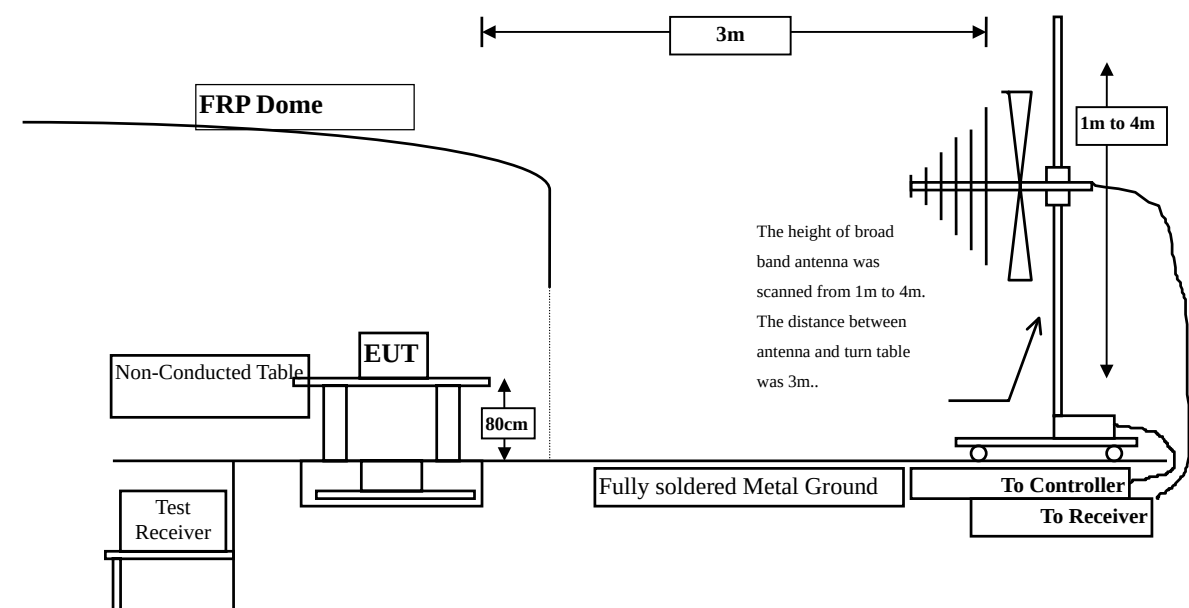
The following test equipments are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2014
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2013
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2013
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2014
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2013
	X	Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2014
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2013
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2014
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

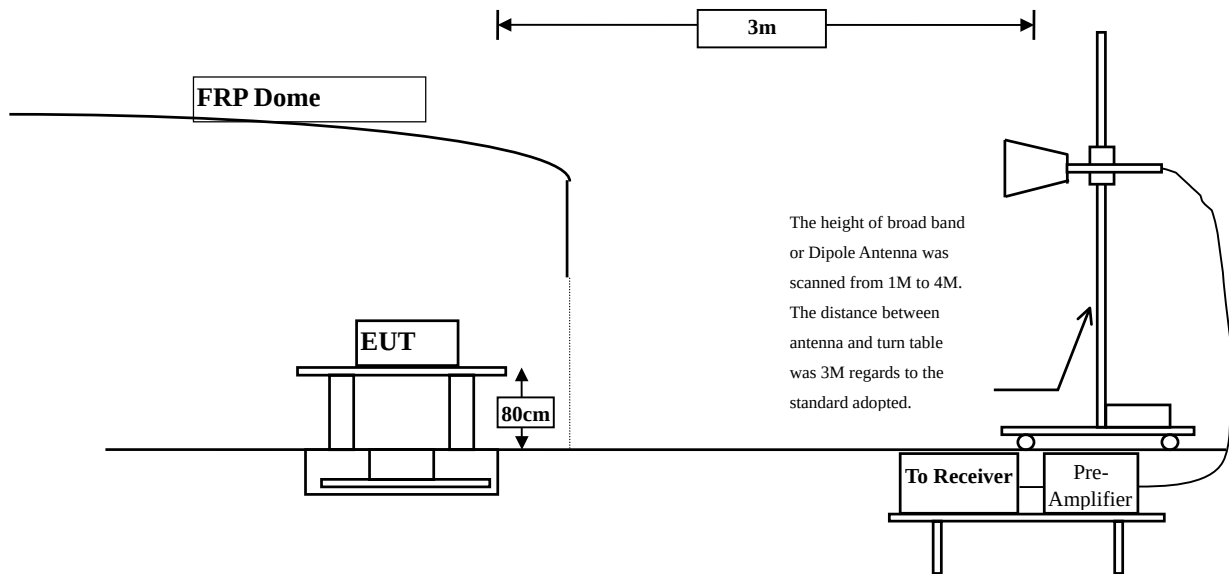
- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.3. 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 (dBuV/m) = 20 log E field strength (uV/m)

5.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

The EUT is placed on a turn table which is 0.8 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 from 1 meter to 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, 2009 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 worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

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

5.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

5.6. Test Result of Radiated Emission

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz) – Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4516.000	1.839	67.560	69.399	-4.271	74.000
11490.000	17.196	35.450	52.647	-21.683	74.000
17235.000	15.516	51.660	67.176	-3.264	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	1.839	31.660	33.499	-22.401	54.000
17235.000	15.516	34.460	49.976	-1.404	54.000
Vertical					
Peak Detector:					
4516.000	5.196	63.460	68.657	-3.683	74.000
11490.000	18.124	33.860	51.985	-21.965	74.000
17235.000	18.123	50.860	68.983	-3.457	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	5.196	24.960	30.157	-23.843	54.000
17235.000	18.123	33.760	51.883	-2.117	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	63.860	65.795	-8.205	74.000
11570.000	16.899	33.860	50.759	-23.241	74.000
17355.000	16.336	54.520	70.856	-3.144	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	30.860	32.795	-21.205	54.000
11735.000	16.027	35.630	51.657	-2.343	54.000
Vertical					
Peak Detector:					
4557.000	1.934	30.860	32.795	-21.205	74.000
11735.000	16.027	35.630	51.657	-2.343	74.000
17355.000	19.301	51.760	71.061	-2.939	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	25.810	31.336	-22.664	54.000
17355.000	19.301	30.530	49.831	-4.169	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	61.060	63.090	-10.910	74.000
11650.000	16.325	36.060	52.386	-21.614	74.000
17475.000	17.429	46.501	63.930	-10.070	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	28.960	30.990	-23.010	54.000
17475.000	17.429	34.520	51.949	-2.051	54.000
Vertical					
Peak Detector:					
4597.000	5.836	55.860	61.695	-12.305	74.000
11650.000	17.441	34.730	52.172	-21.828	74.000
17475.000	20.133	41.860	61.993	-12.007	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	25.760	31.595	-22.405	54.000
17475.000	20.133	27.650	47.783	-6.217	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5745MHz) - Dish Antenna

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4517.000	1.842	64.990	66.832	-7.168	74.000
11490.000	17.196	34.830	52.027	-21.973	74.000
17235.000	15.516	54.910	70.426	-3.574	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
4517.000	1.842	26.020	27.862	-26.138	54.000
17235.000	15.516	33.950	49.466	-4.534	54.000
Vertical					
Peak Detector:					
4517.000	5.205	60.760	65.964	-8.036	74.000
11490.000	18.124	34.400	52.525	-21.475	74.000
17235.000	18.123	47.610	65.733	-8.267	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
4517.000	5.205	25.060	30.264	-23.736	54.000
17235.000	18.123	31.850	49.973	-4.027	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	67.710	69.645	-4.355	74.000
11570.000	16.899	34.710	51.609	-22.391	74.000
17355.000	16.336	55.610	71.946	-2.054	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	30.720	32.655	-21.345	54.000
17355.000	16.336	34.710	51.046	-2.954	54.000
Vertical					
Peak Detector:					
4557.000	5.525	58.720	64.246	-9.754	74.000
11570.000	17.788	32.960	50.748	-23.252	74.000
17355.000	19.301	45.730	65.031	-8.969	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	26.030	31.556	-22.444	54.000
17355.000	19.301	12.055	31.356	-22.644	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5825MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	66.620	68.650	-5.350	74.000
11650.000	16.325	34.830	51.156	-22.844	74.000
17475.000	17.429	50.860	68.289	-5.711	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	27.710	29.740	-24.260	54.000
17475.000	17.429	31.660	49.089	-4.911	54.000
Vertical					
Peak Detector:					
4597.000	5.836	54.760	60.595	-13.405	74.000
11650.000	17.441	33.960	51.402	-22.598	74.000
17475.000	20.133	43.710	63.843	-10.157	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	25.830	31.665	-22.335	54.000
17475.000	20.133	29.730	49.863	-4.137	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4555.000	1.930	64.820	66.750	-7.250	74.000
11510.000	17.214	35.060	52.274	-21.726	74.000
17265.000	15.674	55.630	71.304	-2.696	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average					
Detector:					
4555.000	1.930	29.820	31.750	-22.250	54.000
17265.000	15.674	35.820	51.494	-2.506	54.000
Vertical					
Peak Detector:					
4555.000	5.509	54.820	60.330	-13.670	74.000
11510.000	18.171	34.830	53.001	-20.999	74.000
17265.000	18.261	45.830	64.091	-9.909	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average					
Detector:					
4555.000	5.509	26.820	32.330	-21.670	54.000
17265.000	18.261	29.450	47.711	-6.289	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5795MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4595.000	2.022	66.620	68.642	-5.358	74.000
11590.000	16.791	35.060	51.850	-22.150	74.000
17385.000	16.595	53.820	70.414	-3.586	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	2.022	26.820	28.842	-25.158	54.000
17385.000	16.595	34.820	51.414	-2.586	54.000
Vertical					
Peak Detector:					
4595.000	5.819	58.860	64.679	-9.321	74.000
11590.000	17.657	33.360	51.016	-22.984	74.000
17385.000	19.780	45.090	64.869	-9.131	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	5.819	26.290	32.109	-21.891	54.000
17385.000	19.780	28.360	48.139	-5.861	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4576.000	1.978	61.590	63.568	-10.432	74.000
11550.000	17.004	34.150	51.154	-22.846	74.000
17325.000	16.075	52.590	68.666	-5.334	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	1.978	29.560	31.538	-22.462	54.000
17325.000	16.075	34.110	50.186	-3.814	54.000
Vertical					
Peak Detector:					
4576.000	5.677	63.550	69.227	-4.773	74.000
11550.000	17.916	35.440	53.355	-20.645	74.000
17325.000	18.821	49.890	68.711	-5.289	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	5.677	27.480	33.157	-20.843	54.000
17325.000	18.821	33.350	52.171	-1.829	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4516.000	1.839	67.560	69.399	-4.601	74.000
11490.000	17.196	35.450	52.647	-21.353	74.000
17235.000	15.516	51.660	67.176	-6.824	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	1.839	31.660	33.499	-20.501	54.000
17235.000	15.516	34.460	49.976	-4.024	54.000
Vertical					
Peak Detector:					
4516.000	5.196	63.460	68.657	-5.343	74.000
11490.000	18.124	33.860	51.985	-22.015	74.000
17235.000	18.123	50.860	68.983	-5.017	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	5.196	24.960	30.157	-23.843	54.000
17235.000	18.123	33.760	51.883	-2.117	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	63.860	65.795	-8.205	74.000
11570.000	16.899	33.860	50.759	-23.241	74.000
17355.000	16.336	54.520	70.856	-3.144	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	30.860	32.795	-21.205	54.000
11735.000	16.027	35.630	51.657	-2.343	54.000
Vertical					
Peak Detector:					
4557.000	5.525	55.530	61.056	-12.944	74.000
11570.000	17.788	35.530	53.318	-20.682	74.000
17355.000	19.301	49.530	68.831	-5.169	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	25.810	31.336	-22.664	54.000
17355.000	19.301	30.530	49.831	-4.169	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz) - Sector Antenna

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	61.060	63.090	-10.910	74.000
11650.000	16.325	36.060	52.386	-21.614	74.000
17475.000	17.429	46.501	63.930	-10.070	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	28.960	30.990	-23.010	54.000
17475.000	17.429	34.520	51.949	-2.051	54.000
Vertical					
Peak Detector:					
4597.000	2.030	28.960	30.990	-23.010	74.000
17475.000	17.429	34.520	51.949	-2.051	74.000
17475.000	20.133	43.620	63.753	-10.247	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	25.760	31.595	-22.405	54.000
17475.000	20.133	27.650	47.783	-6.217	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5745MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4517.000	1.842	64.990	66.832	-7.168	74.000
11490.000	17.196	34.830	52.027	-21.973	74.000
17235.000	15.516	54.910	70.426	-3.574	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4517.000	1.842	26.020	27.862	-26.138	54.000
17235.000	15.516	33.950	49.466	-4.534	54.000
Vertical					
Peak Detector:					
4517.000	5.205	60.760	65.964	-8.036	74.000
11490.000	18.124	34.400	52.525	-21.475	74.000
17235.000	18.123	47.610	65.733	-8.267	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4517.000	5.205	25.060	30.264	-23.736	54.000
17235.000	18.123	31.850	49.973	-4.027	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	67.710	69.645	-4.355	74.000
11570.000	16.899	34.710	51.609	-22.391	74.000
17355.000	16.336	55.610	71.946	-2.054	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	30.720	32.655	-21.345	54.000
17355.000	16.336	34.710	51.046	-2.954	54.000
Vertical					
Peak Detector:					
4557.000	5.525	58.720	64.246	-9.754	74.000
11570.000	17.788	32.960	50.748	-23.252	74.000
17355.000	19.301	45.730	65.031	-8.969	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	26.030	31.556	-22.444	54.000
17355.000	19.301	12.055	31.356	-22.644	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5825MHz) - Sector Antenna

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	66.620	68.650	-5.350	74.000
11650.000	16.325	34.830	51.156	-22.844	74.000
17475.000	17.429	50.860	68.289	-5.711	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	27.710	29.740	-24.260	54.000
17475.000	17.429	31.660	49.089	-4.911	54.000
Vertical					
Peak Detector:					
4597.000	5.836	54.760	60.595	-13.405	74.000
11650.000	17.441	33.960	51.402	-22.598	74.000
17475.000	20.133	43.710	63.843	-10.157	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	25.830	31.665	-22.335	54.000
17475.000	20.133	29.730	49.863	-4.137	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4555.000	1.930	64.820	66.750	-7.250	74.000
11510.000	17.214	35.060	52.274	-21.726	74.000
17265.000	15.674	55.630	71.304	-2.696	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average					
Detector:					
4555.000	1.930	29.820	31.750	-22.250	54.000
17265.000	15.674	35.820	51.494	-2.506	54.000
Vertical					
Peak Detector:					
4555.000	5.509	54.820	60.330	-13.670	74.000
11510.000	18.171	34.830	53.001	-20.999	74.000
17265.000	18.261	45.830	64.091	-9.909	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average					
Detector:					
4555.000	5.509	26.820	32.330	-21.670	54.000
17265.000	18.261	29.450	47.711	-6.289	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5795MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4595.000	2.022	66.620	68.642	-5.358	74.000
11590.000	16.791	35.060	51.850	-22.150	74.000
17385.000	16.595	53.820	70.414	-3.586	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	2.022	26.820	28.842	-25.158	54.000
17385.000	16.595	34.820	51.414	-2.586	54.000
Vertical					
Peak Detector:					
4595.000	5.819	58.860	64.679	-9.321	74.000
11590.000	17.657	33.360	51.016	-22.984	74.000
17385.000	19.780	45.090	64.869	-9.131	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	5.819	26.290	32.109	-21.891	54.000
17385.000	19.780	28.360	48.139	-5.861	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4576.000	2.443	63.260	65.704	-8.296	74.000
11550.000	17.544	34.850	52.394	-21.606	74.000
17325.000	17.904	50.290	68.194	-5.806	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	2.443	28.150	30.594	-23.406	54.000
17325.000	17.904	31.150	49.054	-4.946	54.000
Vertical					
Peak Detector:					
4576.000	6.142	61.470	67.613	-6.387	74.000
11550.000	18.456	35.470	53.925	-20.075	74.000
17325.000	20.650	49.590	70.240	-3.760	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	6.142	27.150	33.293	-20.707	54.000
17325.000	20.650	30.590	51.240	-2.760	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4516.000	1.839	68.260	70.099	-3.901	74.000
11490.000	17.196	36.150	53.347	-20.653	74.000
17235.000	15.516	52.260	67.776	-6.224	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	1.839	32.260	34.099	-19.901	54.000
17235.000	15.516	35.260	50.776	-3.224	54.000
Vertical					
Peak Detector:					
4516.000	5.196	64.260	69.457	-4.543	74.000
11490.000	18.124	34.260	52.385	-21.615	74.000
17235.000	18.123	51.360	69.483	-4.517	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4516.000	5.196	25.260	30.457	-23.543	54.000
17235.000	18.123	34.260	52.383	-1.617	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	64.260	66.195	-7.805	74.000
11570.000	16.899	34.260	51.159	-22.841	74.000
17355.000	16.336	55.020	71.356	-2.644	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	31.260	33.195	-20.805	54.000
11735.000	16.027	36.230	52.257	-1.743	54.000
Vertical					
Peak Detector:					
4557.000	1.934	31.260	33.195	-20.805	74.000
11735.000	16.027	36.230	52.257	-1.743	74.000
17355.000	19.301	50.580	69.881	-4.119	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	26.110	31.636	-22.364	54.000
17355.000	19.301	31.030	50.331	-3.669	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	61.260	63.290	-10.710	74.000
11650.000	16.325	36.260	52.586	-21.414	74.000
17475.000	17.429	52.260	69.689	-4.311	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	29.260	31.290	-22.710	54.000
17475.000	17.429	35.020	52.449	-1.551	54.000
Vertical					
Peak Detector:					
4597.000	5.836	56.260	62.095	-11.905	74.000
11650.000	17.441	35.230	52.672	-21.328	74.000
17475.000	20.133	42.260	62.393	-11.607	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	26.260	32.095	-21.905	54.000
17475.000	20.133	28.150	48.283	-5.717	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5745MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4517.000	1.842	65.290	67.132	-6.868	74.000
11490.000	17.196	35.230	52.427	-21.573	74.000
17235.000	15.516	56.110	71.626	-2.374	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4517.000	1.842	28.120	29.962	-24.038	54.000
17235.000	15.516	36.050	51.566	-2.434	54.000
Vertical					
Peak Detector:					
4517.000	5.205	61.260	66.464	-7.536	74.000
11490.000	18.124	34.800	52.925	-21.075	74.000
17235.000	18.123	48.010	66.133	-7.867	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4517.000	5.205	25.260	30.464	-23.536	54.000
17235.000	18.123	32.050	50.173	-3.827	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4557.000	1.934	68.010	69.945	-4.055	74.000
11570.000	16.899	35.010	51.909	-22.091	74.000
17355.000	16.336	56.010	72.346	-1.654	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	1.934	31.020	32.955	-21.045	54.000
17355.000	16.336	35.010	51.346	-2.654	54.000
Vertical					
Peak Detector:					
4557.000	5.525	59.020	64.546	-9.454	74.000
11570.000	17.788	33.260	51.048	-22.952	74.000
17355.000	19.301	46.030	65.331	-8.669	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average					
Detector:					
4557.000	5.525	26.230	31.756	-22.244	54.000
17355.000	19.301	30.020	49.321	-4.679	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5825MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4597.000	2.030	67.020	69.050	-4.950	74.000
11650.000	16.325	35.030	51.356	-22.644	74.000
17475.000	17.429	51.060	68.489	-5.511	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	2.030	28.010	30.040	-23.960	54.000
17475.000	17.429	32.060	49.489	-4.511	54.000
Peak Detector:					
4597.000	5.836	55.060	60.895	-13.105	74.000
11650.000	17.441	34.260	51.702	-22.298	74.000
17475.000	20.133	44.010	64.143	-9.857	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average					
Detector:					
4597.000	5.836	26.030	31.865	-22.135	54.000
17475.000	20.133	30.030	50.163	-3.837	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Omni Antenna

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4555.000	1.930	65.020	66.950	-7.050	74.000
11510.000	17.214	35.260	52.474	-21.526	74.000
17265.000	15.674	56.030	71.704	-2.296	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
4555.000	1.930	30.020	31.950	-22.050	54.000
17265.000	15.674	36.020	51.694	-2.306	54.000
Vertical					
Peak Detector:					
4555.000	5.509	55.020	60.530	-13.470	74.000
11510.000	18.171	35.030	53.201	-20.799	74.000
17265.000	18.261	46.030	64.291	-9.709	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
4555.000	5.509	27.020	32.530	-21.470	54.000
17265.000	18.261	29.650	47.911	-6.089	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5795MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4595.000	2.022	67.020	69.042	-4.958	74.000
11590.000	16.791	35.260	52.050	-21.950	74.000
17385.000	16.595	54.020	70.614	-3.386	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	2.022	27.020	29.042	-24.958	54.000
17385.000	16.595	35.020	51.614	-2.386	54.000
Vertical					
Peak Detector:					
4595.000	5.819	59.060	64.879	-9.121	74.000
11590.000	17.657	33.560	51.216	-22.784	74.000
17385.000	19.780	45.290	65.069	-8.931	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average					
Detector:					
4595.000	5.819	26.590	32.409	-21.591	54.000
17385.000	19.780	28.560	48.339	-5.661	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4576.000	2.443	63.150	65.594	-8.406	74.000
11550.000	17.544	34.150	51.694	-22.306	74.000
17325.000	17.904	51.590	69.494	-4.506	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	2.443	29.150	31.594	-22.406	54.000
17325.000	17.904	32.960	50.864	-3.136	54.000
Vertical					
Peak Detector:					
4575.000	6.132	61.590	67.723	-6.277	74.000
11550.000	18.456	34.590	53.045	-20.955	74.000
17325.000	20.650	49.560	70.210	-3.790	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average					
Detector:					
4576.000	6.142	27.150	33.293	-20.707	54.000
17325.000	20.650	31.290	51.940	-2.060	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
111.480	-7.914	49.109	41.195	-2.305	43.500
243.400	-6.441	50.241	43.800	-2.200	46.000
381.140	-0.988	42.767	41.779	-4.221	46.000
546.040	3.570	38.187	41.756	-4.244	46.000
672.140	2.291	37.665	39.956	-6.044	46.000
825.400	6.250	37.751	44.001	-1.999	46.000
Vertical					
Peak Detector					
105.660	-0.253	40.912	40.659	-2.841	43.500
243.400	-8.451	51.241	42.790	-3.210	46.000
381.140	-1.558	43.767	42.209	-3.791	46.000
540.220	0.121	43.235	43.356	-2.644	46.000
685.720	2.319	40.353	42.671	-3.329	46.000
773.020	2.746	38.024	40.770	-5.230	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
105.660	-6.673	46.912	40.239	-3.261	43.500
243.400	-6.441	50.241	43.800	-2.200	46.000
363.680	-1.433	44.426	42.993	-3.007	46.000
476.200	-0.252	43.029	42.777	-3.223	46.000
606.180	4.666	37.568	42.234	-3.766	46.000
782.720	4.325	38.619	42.944	-3.056	46.000
Vertical					
Peak Detector					
111.480	-0.954	42.109	41.155	-2.345	43.500
243.400	-8.451	50.741	42.290	-3.710	46.000
381.140	-1.558	44.267	42.709	-3.291	46.000
540.220	0.121	42.735	42.856	-3.144	46.000
681.840	1.484	36.756	38.240	-7.760	46.000
842.860	3.074	37.868	40.942	-5.058	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
154.160	-10.091	50.042	39.951	-3.549	43.500
303.540	-3.074	46.195	43.121	-2.879	46.000
458.740	0.833	41.325	42.158	-3.842	46.000
606.180	4.666	37.568	42.234	-3.766	46.000
782.720	4.325	38.619	42.944	-3.056	46.000
897.180	5.182	37.893	43.075	-2.925	46.000
Vertical					
Peak Detector					
202.660	-7.739	49.360	41.621	-1.879	43.500
381.140	-1.558	43.767	42.209	-3.791	46.000
507.240	-0.471	42.641	42.170	-3.830	46.000
606.180	-1.594	43.168	41.574	-4.426	46.000
747.800	2.166	38.198	40.364	-5.636	46.000
881.660	2.557	38.812	41.369	-4.631	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Dish Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
105.660	-6.673	47.912	41.239	-2.261	43.500
175.500	-10.017	49.155	39.137	-4.363	43.500
303.540	-3.074	47.195	44.121	-1.879	46.000
458.740	0.833	41.325	42.158	-3.842	46.000
610.060	4.101	37.089	41.190	-4.810	46.000
815.700	5.271	38.052	43.323	-2.677	46.000
Vertical					
Peak Detector					
111.480	-0.954	41.609	40.655	-2.845	43.500
243.400	-8.451	51.241	42.790	-3.210	46.000
381.140	-1.558	41.267	39.709	-6.291	46.000
507.240	-0.471	42.641	42.170	-3.830	46.000
681.840	1.484	40.856	42.340	-3.660	46.000
844.800	3.181	41.185	44.366	-1.634	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
111.480	-7.914	49.109	41.195	-2.305	43.500
243.400	-6.441	50.241	43.800	-2.200	46.000
381.140	-0.988	42.767	41.779	-4.221	46.000
546.040	3.570	38.187	41.756	-4.244	46.000
672.140	2.291	37.665	39.956	-6.044	46.000
825.400	6.250	37.751	44.001	-1.999	46.000
Vertical					
Peak Detector					
105.660	-0.253	40.912	40.659	-2.841	43.500
243.400	-8.451	51.241	42.790	-3.210	46.000
381.140	-1.558	43.767	42.209	-3.791	46.000
540.220	0.121	43.235	43.356	-2.644	46.000
685.720	2.319	40.353	42.671	-3.329	46.000
773.020	2.746	38.024	40.770	-5.230	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
105.660	-6.673	46.912	40.239	-3.261	43.500
243.400	-6.441	50.241	43.800	-2.200	46.000
363.680	-1.433	44.426	42.993	-3.007	46.000
476.200	-0.252	43.029	42.777	-3.223	46.000
606.180	4.666	37.568	42.234	-3.766	46.000
782.720	4.325	38.619	42.944	-3.056	46.000
Vertical					
Peak Detector					
111.480	-0.954	42.109	41.155	-2.345	43.500
243.400	-8.451	50.741	42.290	-3.710	46.000
381.140	-1.558	44.267	42.709	-3.291	46.000
540.220	0.121	42.735	42.856	-3.144	46.000
681.840	1.484	36.756	38.240	-7.760	46.000
842.860	3.074	37.868	40.942	-5.058	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
154.160	-10.091	50.042	39.951	-3.549	43.500
303.540	-3.074	46.195	43.121	-2.879	46.000
458.740	0.833	41.325	42.158	-3.842	46.000
606.180	4.666	37.568	42.234	-3.766	46.000
782.720	4.325	38.619	42.944	-3.056	46.000
897.180	5.182	37.893	43.075	-2.925	46.000
Vertical					
Peak Detector					
202.660	-7.739	49.360	41.621	-1.879	43.500
381.140	-1.558	43.767	42.209	-3.791	46.000
507.240	-0.471	42.641	42.170	-3.830	46.000
606.180	-1.594	43.168	41.574	-4.426	46.000
747.800	2.166	38.198	40.364	-5.636	46.000
881.660	2.557	38.812	41.369	-4.631	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Sector Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
103.720	-6.751	46.028	39.276	-4.224	43.500
245.340	-6.346	49.899	43.553	-2.447	46.000
458.740	0.833	40.605	41.438	-4.562	46.000
549.920	2.943	38.937	41.880	-4.120	46.000
681.840	2.844	36.697	39.541	-6.459	46.000
854.500	6.626	37.374	44.000	-2.000	46.000
Vertical					
Peak Detector					
43.580	-2.986	38.321	35.335	-4.665	40.000
156.100	-6.201	47.859	41.657	-1.843	43.500
332.640	-4.914	46.251	41.337	-4.663	46.000
540.220	0.121	42.735	42.856	-3.144	46.000
720.640	-0.099	41.066	40.967	-5.033	46.000
883.600	2.566	41.235	43.800	-2.200	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
103.720	-6.751	46.028	39.276	-4.224	43.500
245.340	-6.346	49.899	43.553	-2.447	46.000
458.740	0.833	40.605	41.438	-4.562	46.000
549.920	2.943	38.937	41.880	-4.120	46.000
681.840	2.844	36.697	39.541	-6.459	46.000
854.500	6.626	37.374	44.000	-2.000	46.000
Vertical					
Peak Detector					
43.580	-2.986	38.321	35.335	-4.665	40.000
156.100	-6.201	47.859	41.657	-1.843	43.500
332.640	-4.914	46.251	41.337	-4.663	46.000
540.220	0.121	42.735	42.856	-3.144	46.000
720.640	-0.099	41.066	40.967	-5.033	46.000
883.600	2.566	41.235	43.800	-2.200	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
43.580	-4.496	40.321	35.825	-4.175	40.000
105.660	-6.673	45.912	39.239	-4.261	43.500
255.040	-5.098	47.722	42.624	-3.376	46.000
470.380	1.226	40.187	41.413	-4.587	46.000
635.280	2.141	39.148	41.288	-4.712	46.000
864.200	5.671	38.234	43.905	-2.095	46.000
Vertical					
Peak Detector					
105.660	-0.253	41.412	41.159	-2.341	43.500
202.660	-7.739	49.660	41.921	-1.579	43.500
344.280	-3.171	45.607	42.437	-3.563	46.000
507.240	-0.471	43.141	42.670	-3.330	46.000
664.380	-1.918	43.459	41.541	-4.459	46.000
844.800	3.181	37.585	40.766	-5.234	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
105.660	-6.673	47.912	41.239	-2.261	43.500
175.500	-10.017	49.155	39.137	-4.363	43.500
303.540	-3.074	47.195	44.121	-1.879	46.000
458.740	0.833	41.325	42.158	-3.842	46.000
610.060	4.101	37.089	41.190	-4.810	46.000
815.700	5.271	38.052	43.323	-2.677	46.000
Vertical					
Peak Detector					
111.480	-0.954	41.609	40.655	-2.845	43.500
243.400	-8.451	51.241	42.790	-3.210	46.000
381.140	-1.558	41.267	39.709	-6.291	46.000
507.240	-0.471	42.641	42.170	-3.830	46.000
681.840	1.484	40.856	42.340	-3.660	46.000
844.800	3.181	41.185	44.366	-1.634	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Omni Antenna

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector					
43.580	-4.496	40.321	35.825	-4.175	40.000
105.660	-6.673	45.912	39.239	-4.261	43.500
255.040	-5.098	47.722	42.624	-3.376	46.000
470.380	1.226	40.187	41.413	-4.587	46.000
635.280	2.141	39.148	41.288	-4.712	46.000
864.200	5.671	38.234	43.905	-2.095	46.000
Vertical					
Peak Detector					
105.660	-0.253	41.412	41.159	-2.341	43.500
202.660	-7.739	49.660	41.921	-1.579	43.500
344.280	-3.171	45.607	42.437	-3.563	46.000
507.240	-0.471	43.141	42.670	-3.330	46.000
664.380	-1.918	43.459	41.541	-4.459	46.000
844.800	3.181	37.585	40.766	-5.234	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

6. Band Edge

6.1. Test Equipment

RF Radiated Measurement:

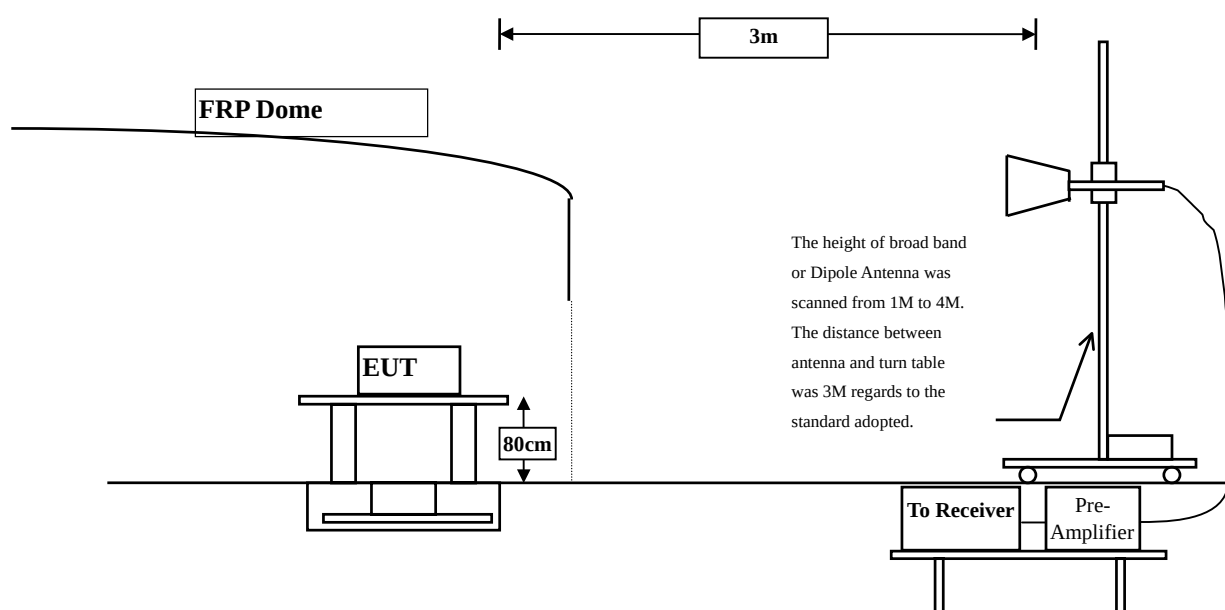
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2013
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2013
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2014
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2013
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2014
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2013
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2014
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. 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	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 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.

6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 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 C63.10:2009 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, 2009; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

6.5. Uncertainty

- ± 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz

6.6. Test Result of Band Edge

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 149 – Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-70.680	-52.036	-25.036	-27.000	Pass
Horizontal	5725.000	18.649	-71.660	-53.011	-36.011	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-70.860	-51.564	-24.564	-27.000	Pass
Vertical	5725.000	19.372	-71.440	-52.068	-35.068	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 165 - Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-67.150	-47.858	-30.858	-17.000	Pass
Horizontal	5860.000	19.415	-66.230	-46.815	-19.815	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.260	-47.748	-30.748	-17.000	Pass
Vertical	5860.000	20.635	-69.230	-48.595	-21.595	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 149 - Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-70.740	-52.096	-25.096	-27.000	Pass
Horizontal	5725.000	18.649	-69.880	-51.231	-34.231	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-67.420	-48.124	-21.124	-27.000	Pass
Vertical	5725.000	19.372	-68.540	-49.168	-32.168	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 165 - Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-67.150	-47.858	-30.858	-17.000	Pass
Horizontal	5860.000	19.415	-69.500	-50.085	-23.085	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-69.150	-48.638	-31.638	-17.000	Pass
Vertical	5860.000	20.635	-68.110	-47.475	-20.475	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 151 - Dish Antenna

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-69.490	-50.846	-23.846	-27.000	Pass
Horizontal	5725.000	18.649	-71.240	-52.591	-35.591	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-71.110	-51.814	-24.814	-27.000	Pass
Vertical	5725.000	19.372	-72.410	-53.038	-36.038	-17.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 159 - Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-68.150	-48.858	-31.858	-17.000	Pass
Horizontal	5860.000	19.415	-67.150	-47.735	-20.735	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-67.150	-46.638	-29.638	-17.000	Pass
Vertical	5860.000	20.635	-68.260	-47.625	-20.625	-27.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps)-Channel 155 - Dish Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-65.260	-46.616	-19.616	-27.000	Pass
Horizontal	5725.000	18.649	-63.230	-44.581	-27.581	-17.000	Pass
Horizontal	5850.000	19.292	-62.550	-43.258	-26.258	-17.000	Pass
Horizontal	5860.000	19.415	-69.590	-50.175	-23.175	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-68.150	-48.854	-21.854	-27.000	Pass
Vertical	5725.000	19.372	-63.590	-44.218	-27.218	-17.000	Pass
Vertical	5850.000	20.512	-63.590	-43.078	-26.078	-17.000	Pass
Vertical	5860.000	20.635	-67.150	-46.515	-19.515	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 149 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-70.680	-52.036	-25.036	-27.000	Pass
Horizontal	5725.000	18.649	-71.660	-53.011	-36.011	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-70.860	-51.564	-24.564	-27.000	Pass
Vertical	5725.000	19.372	-71.440	-52.068	-35.068	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 165 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-67.150	-47.858	-30.858	-17.000	Pass
Horizontal	5860.000	19.415	-66.230	-46.815	-19.815	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.260	-47.748	-30.748	-17.000	Pass
Vertical	5860.000	20.635	-69.230	-48.595	-21.595	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 149 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-70.740	-52.096	-25.096	-27.000	Pass
Horizontal	5725.000	18.649	-69.880	-51.231	-34.231	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-67.420	-48.124	-21.124	-27.000	Pass
Vertical	5725.000	19.372	-68.540	-49.168	-32.168	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 165 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-69.150	-49.858	-32.858	-17.000	Pass
Horizontal	5860.000	19.415	-69.150	-49.735	-22.735	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-67.150	-46.638	-29.638	-17.000	Pass
Vertical	5860.000	20.635	-69.230	-48.595	-21.595	-27.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 151 - Sector Antenna

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-69.490	-50.846	-23.846	-27.000	Pass
Horizontal	5725.000	18.649	-71.240	-52.591	-35.591	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-71.110	-51.814	-24.814	-27.000	Pass
Vertical	5725.000	19.372	-72.410	-53.038	-36.038	-17.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 159 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-68.150	-48.858	-31.858	-17.000	Pass
Horizontal	5860.000	19.415	-67.150	-47.735	-20.735	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-67.150	-46.638	-29.638	-17.000	Pass
Vertical	5860.000	20.635	-68.260	-47.625	-20.625	-27.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps)-Channel 155 - Sector Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-67.590	-48.946	-21.946	-27.000	Pass
Horizontal	5725.000	18.649	-61.260	-42.611	-25.611	-17.000	Pass
Horizontal	5850.000	19.292	-67.150	-47.858	-30.858	-17.000	Pass
Horizontal	5860.000	19.415	-66.230	-46.815	-19.815	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-67.150	-47.854	-20.854	-27.000	Pass
Vertical	5725.000	19.372	-61.260	-41.888	-24.888	-17.000	Pass
Vertical	5850.000	20.512	-62.510	-41.998	-24.998	-17.000	Pass
Vertical	5860.000	20.635	-67.150	-46.515	-19.515	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 149 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-68.590	-49.298	-32.298	-17.000	Pass
Horizontal	5860.000	19.415	-69.320	-49.905	-22.905	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-66.230	-45.718	-28.718	-17.000	Pass
Vertical	5860.000	20.635	-62.150	-41.515	-14.515	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)-Channel 165 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-68.370	-49.726	-22.726	-27.000	Pass
Horizontal	5725.000	18.649	-70.130	-51.481	-34.481	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-71.620	-52.324	-25.324	-27.000	Pass
Vertical	5725.000	19.372	-73.410	-54.038	-37.038	-17.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 149 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-69.230	-49.938	-32.938	-17.000	Pass
Horizontal	5860.000	19.415	-67.290	-47.875	-20.875	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.150	-47.638	-30.638	-17.000	Pass
Vertical	5860.000	20.635	-69.230	-48.595	-21.595	-27.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) -Channel 165 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-66.720	-48.076	-21.076	-27.000	Pass
Horizontal	5725.000	18.649	-68.100	-49.451	-32.451	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-66.290	-46.994	-19.994	-27.000	Pass
Vertical	5725.000	19.372	-69.230	-49.858	-32.858	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 151 - Omni Antenna

RF Radiated Measurement :

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-69.240	-50.596	-23.596	-27.000	Pass
Horizontal	5725.000	18.649	-71.050	-52.401	-35.401	-17.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-69.810	-50.514	-23.514	-27.000	Pass
Vertical	5725.000	19.372	-70.940	-51.568	-34.568	-17.000	Pass

Product : Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) -Channel 159 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5850.000	19.292	-69.150	-49.858	-32.858	-17.000	Pass
Horizontal	5860.000	19.415	-67.150	-47.735	-20.735	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5850.000	20.512	-68.260	-47.748	-30.748	-17.000	Pass
Vertical	5860.000	20.635	-67.150	-46.515	-19.515	-27.000	Pass

Product : Access Point
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps)-Channel 155 - Omni Antenna

RF Radiated Measurement:

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Horizontal	5715.000	18.644	-62.260	-43.616	-16.616	-27.000	Pass
Horizontal	5725.000	18.649	-58.230	-39.581	-22.581	-17.000	Pass
Horizontal	5850.000	19.292	-64.230	-44.938	-27.938	-17.000	Pass
Horizontal	5860.000	19.415	-64.260	-44.845	-17.845	-27.000	Pass

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Result
Vertical	5715.000	19.296	-62.230	-42.934	-15.934	-27.000	Pass
Vertical	5725.000	19.372	-58.260	-38.888	-21.888	-17.000	Pass
Vertical	5850.000	20.512	-63.150	-42.638	-25.638	-17.000	Pass
Vertical	5860.000	20.635	-63.260	-42.625	-15.625	-27.000	Pass

7. Occupied Bandwidth

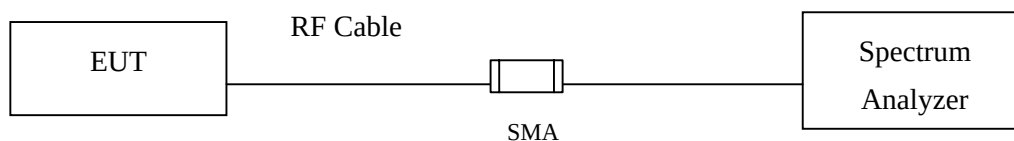
7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2014

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

7.2. Test Setup



7.3. Limits

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

7.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

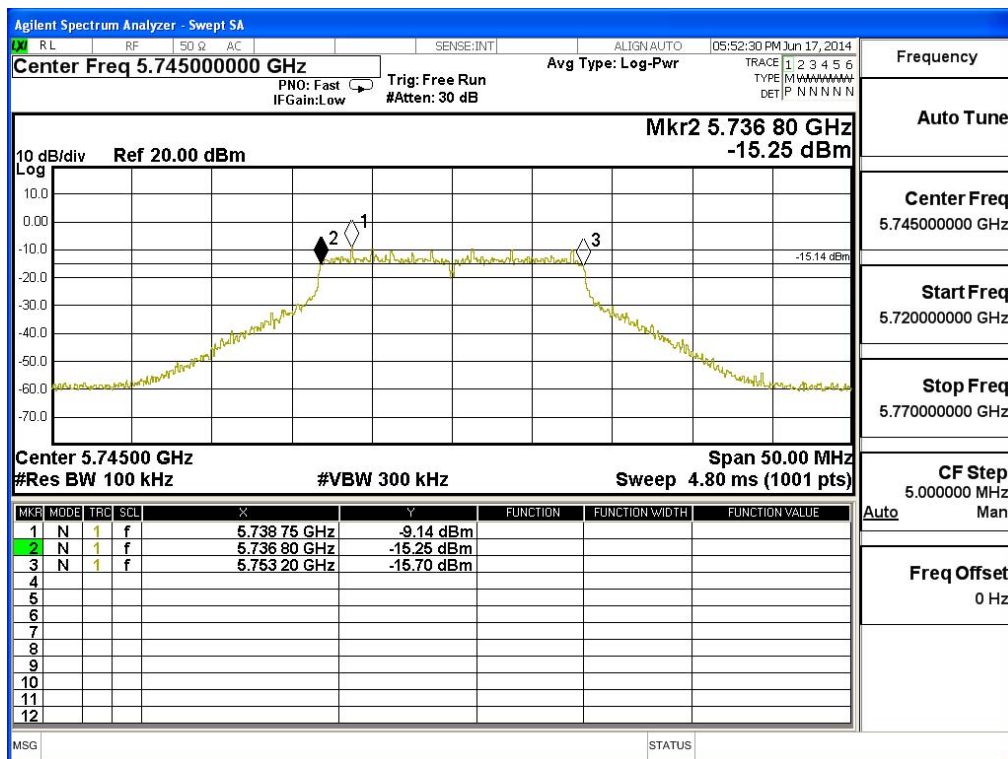
$\pm 150\text{Hz}$

7.6. Test Result of Occupied Bandwidth

Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz) - Dish Antenna

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	16400	>500	Pass

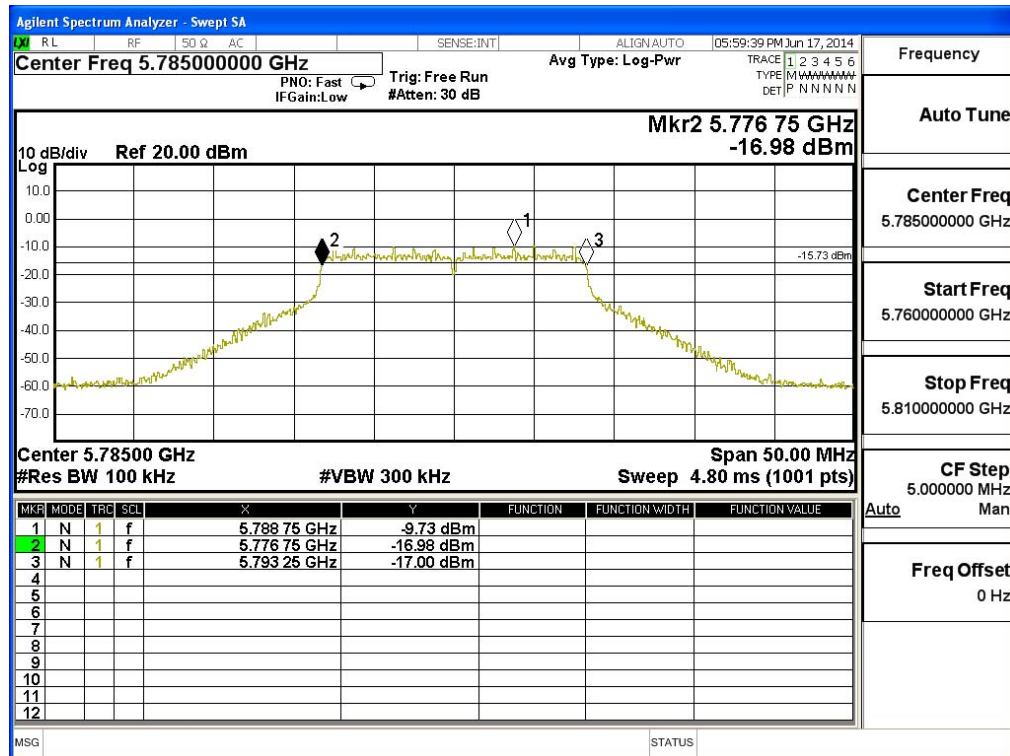
Figure Channel 149:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Dish Antenna

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16500	>500	Pass

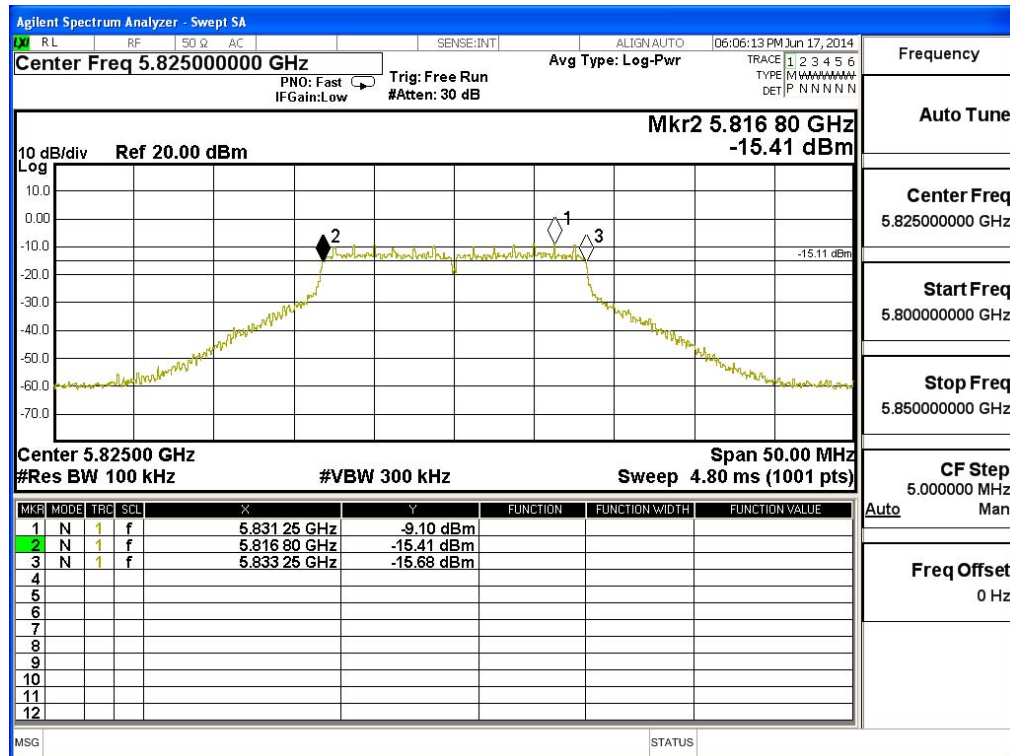
Figure Channel 157:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz) - Dish Antenna

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

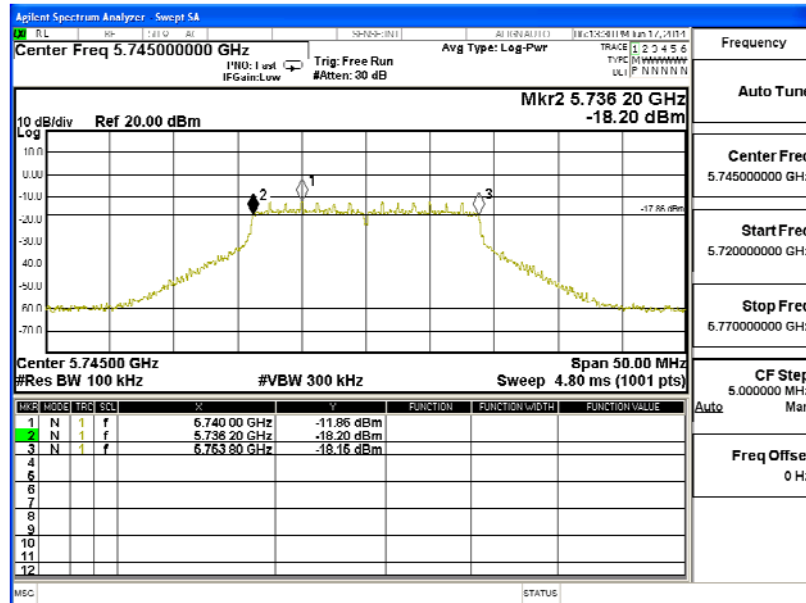
Figure Channel 165:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5745MHz) - Dish Antenna

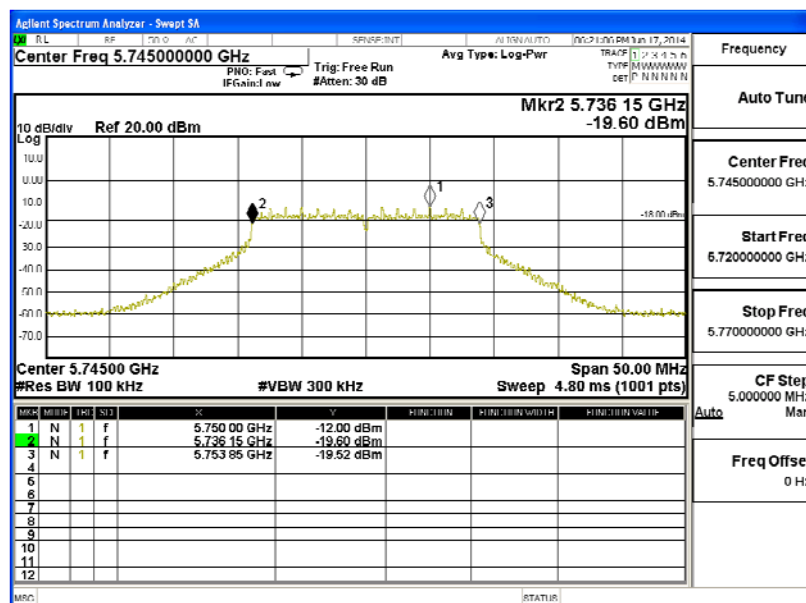
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17600	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17700	>500	Pass

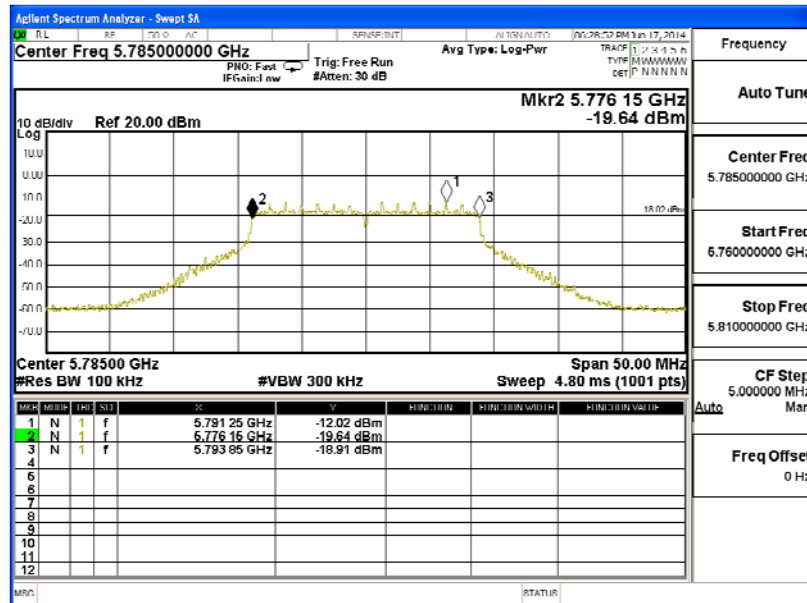
Figure Channel 149: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Dish Antenna

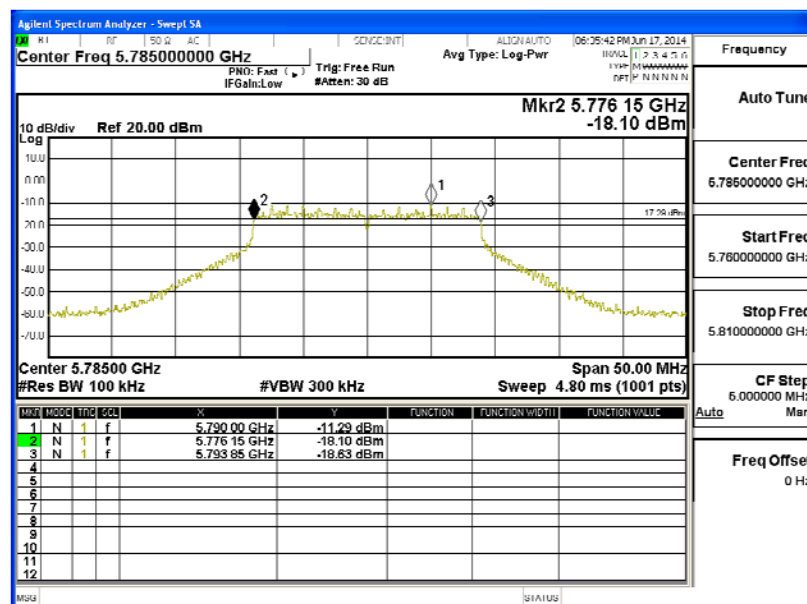
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17700	>500	Pass

Figure Channel 157: (Chain A)



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

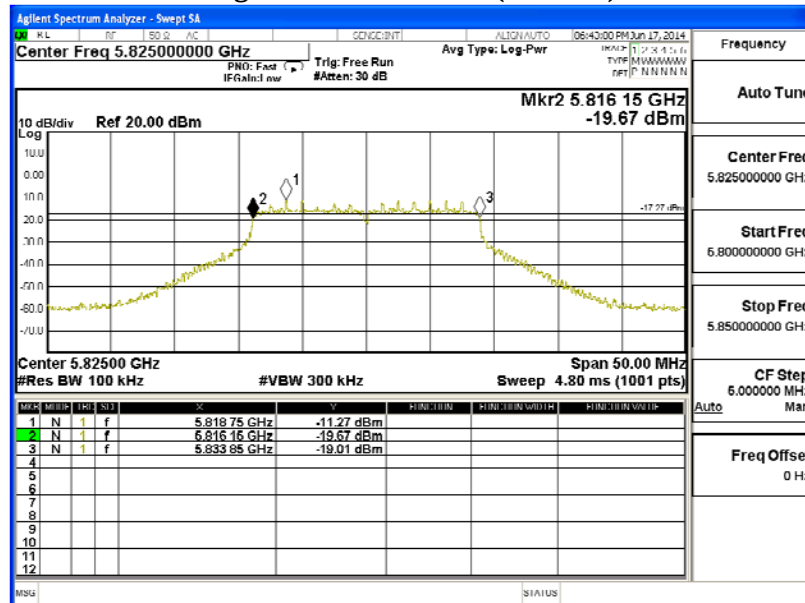
Figure Channel 157: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5825MHz) - Dish Antenna

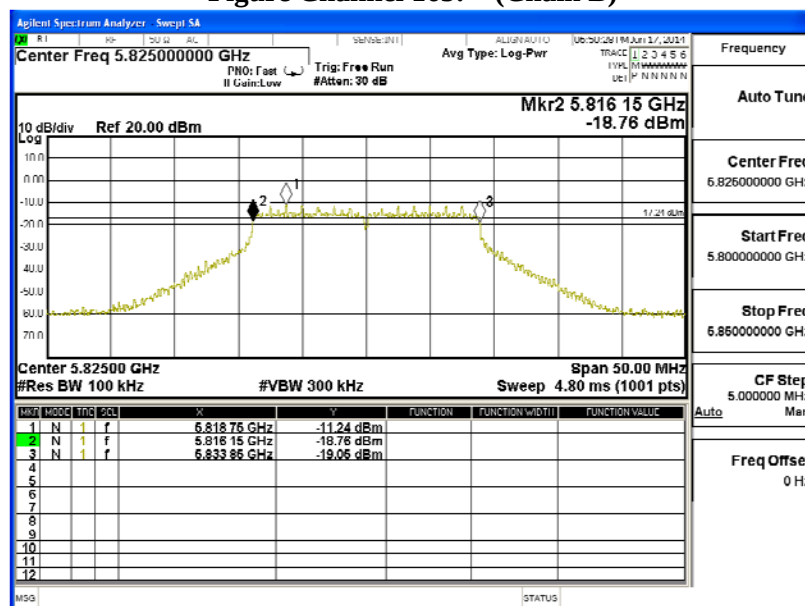
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17700	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17700	>500	Pass

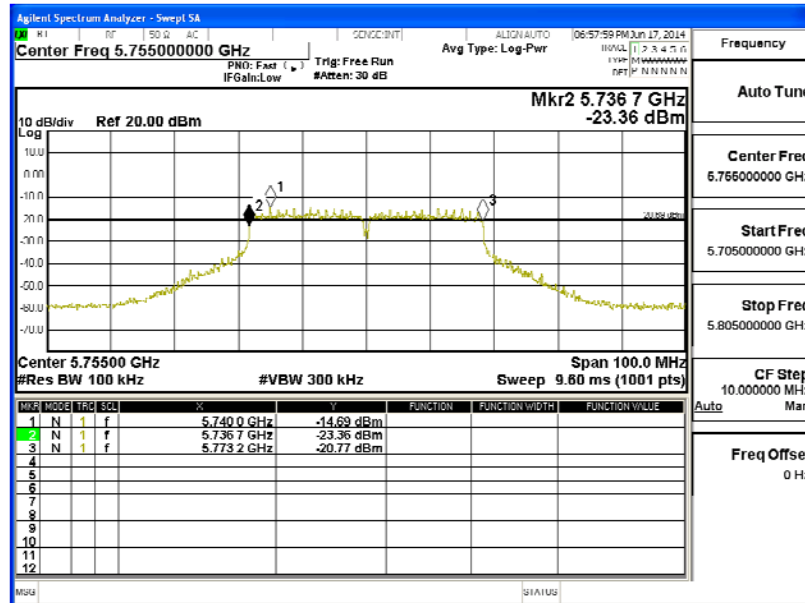
Figure Channel 165: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5755MHz) - Dish Antenna

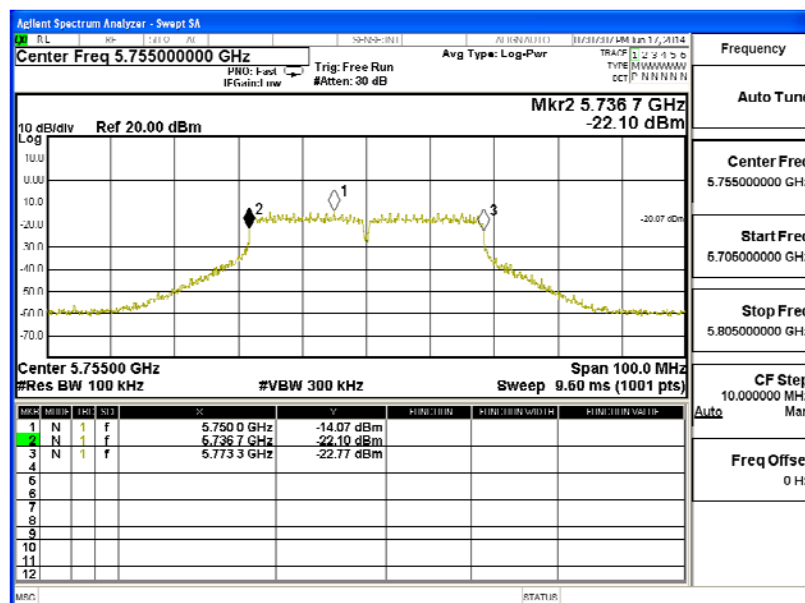
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36500	>500	Pass

Figure Channel 151: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36600	>500	Pass

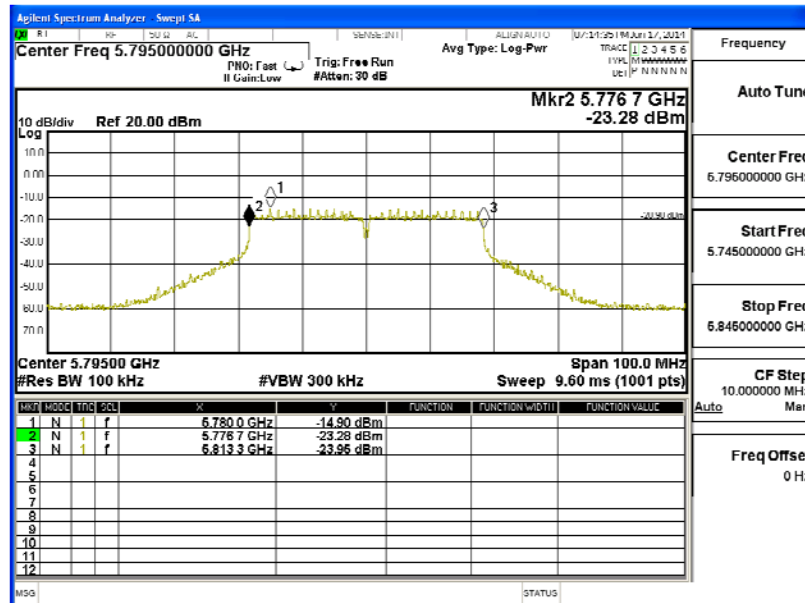
Figure Channel 151: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW-30Mbps) (5795MHz) - Dish Antenna

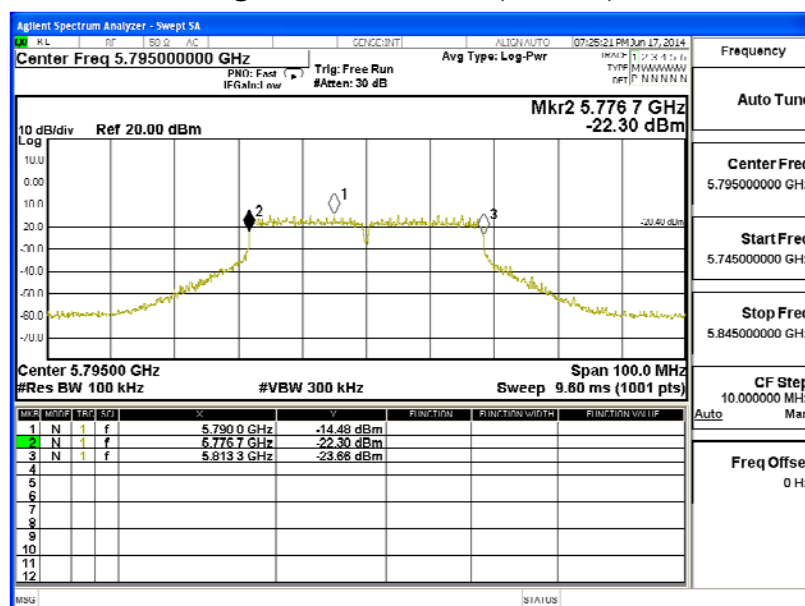
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36600	>500	Pass

Figure Channel 159: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36600	>500	Pass

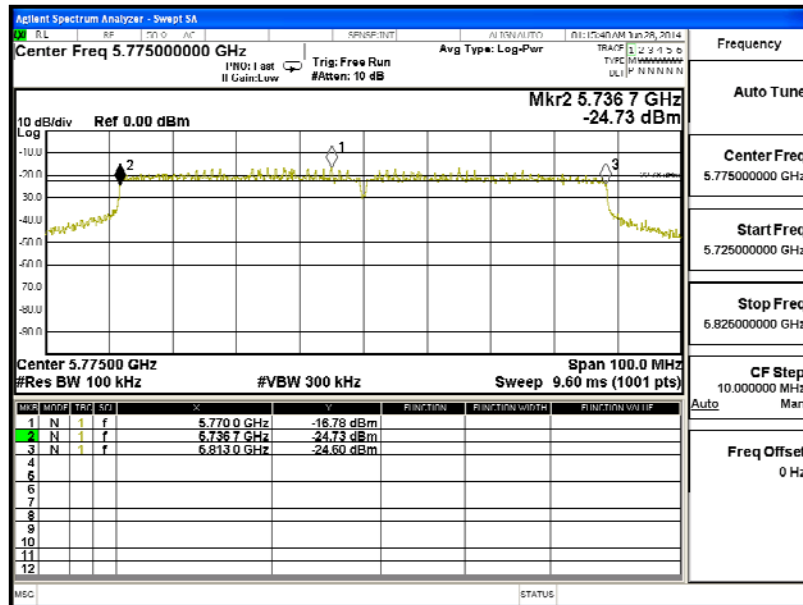
Figure Channel 159: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-80BW-65Mbps) (5775MHz) - Dish Antenna

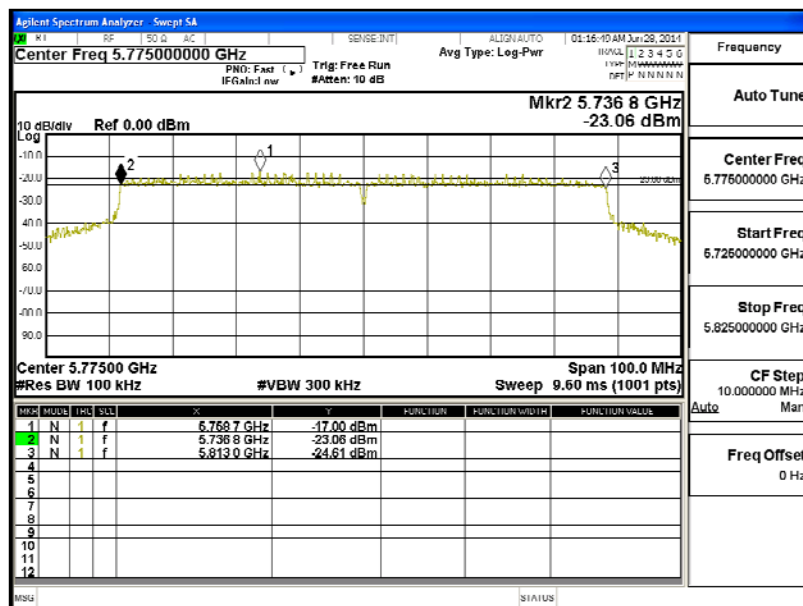
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	76300	>500	Pass

Figure Channel 155: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	76200	>500	Pass

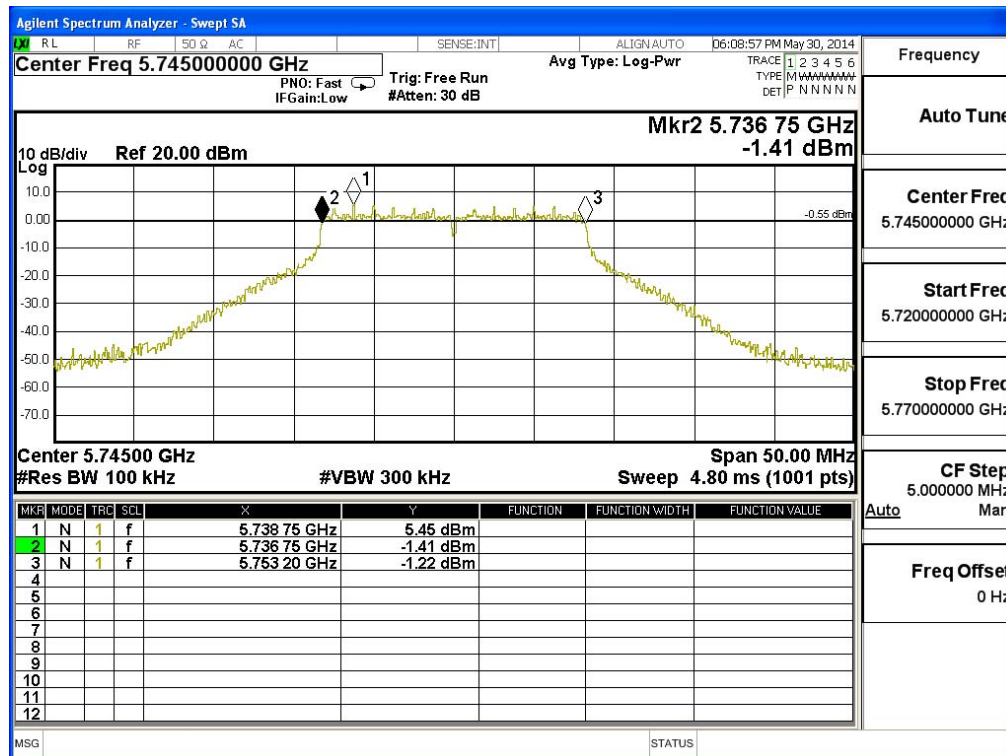
Figure Channel 155: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5745MHz) - Sector Antenna

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

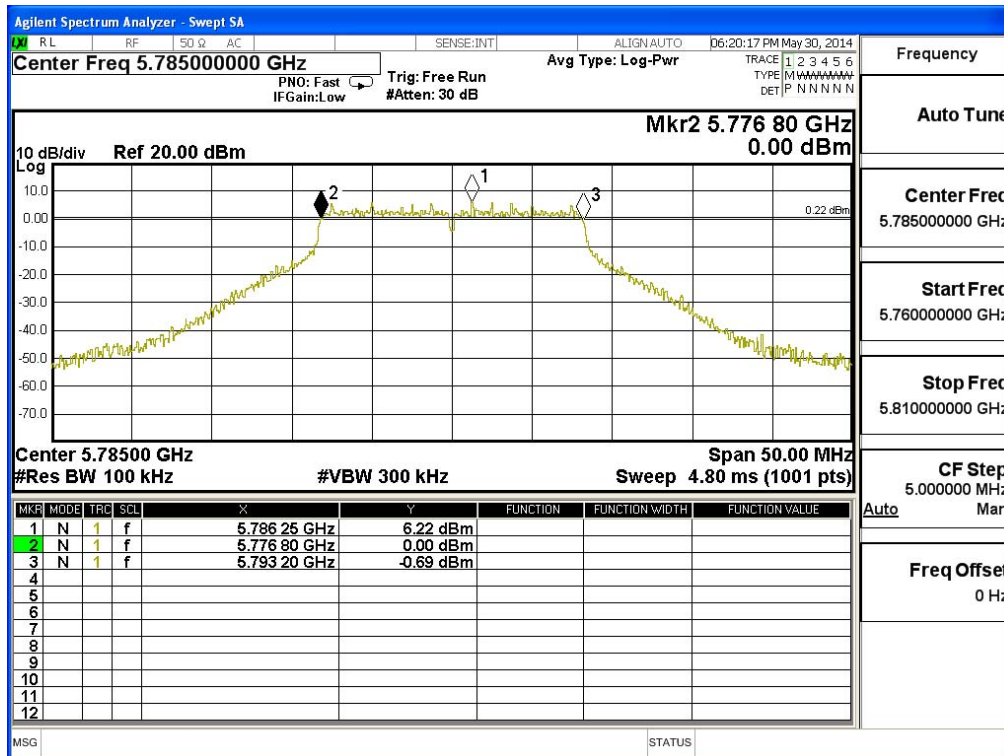
Figure Channel 149:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5785MHz) - Sector Antenna

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16400	>500	Pass

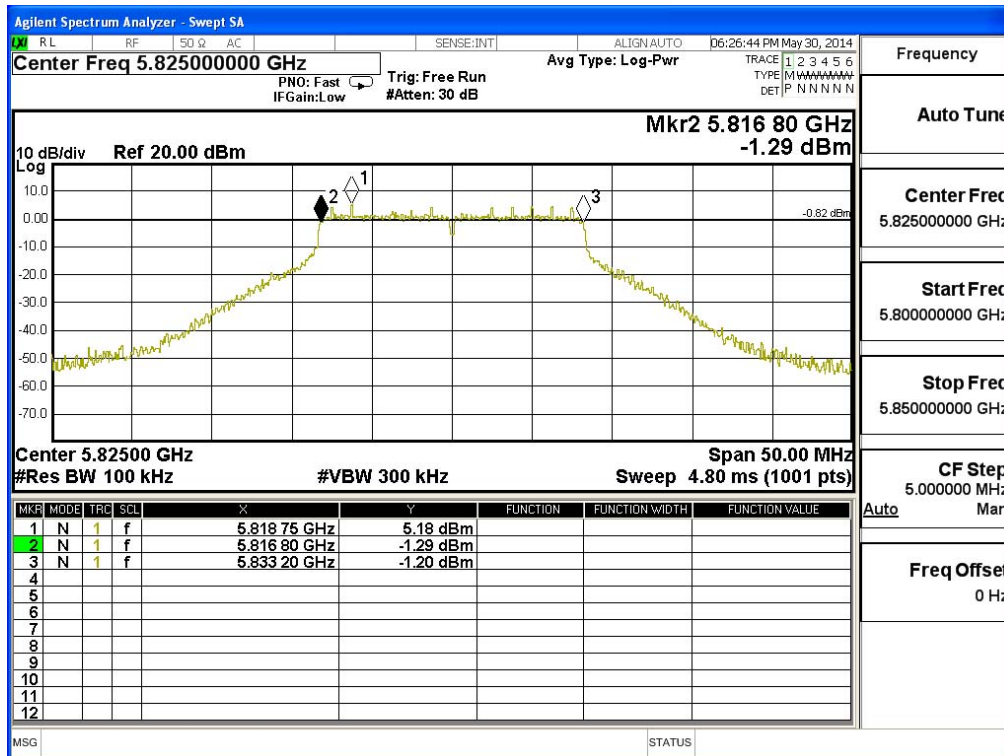
Figure Channel 157:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5825MHz) - Sector Antenna

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

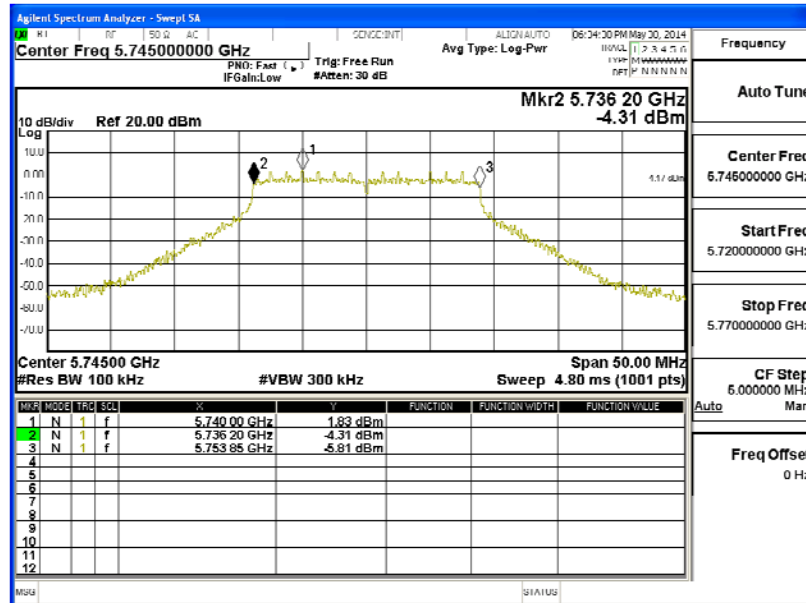
Figure Channel 165:



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5745MHz) - Sector Antenna

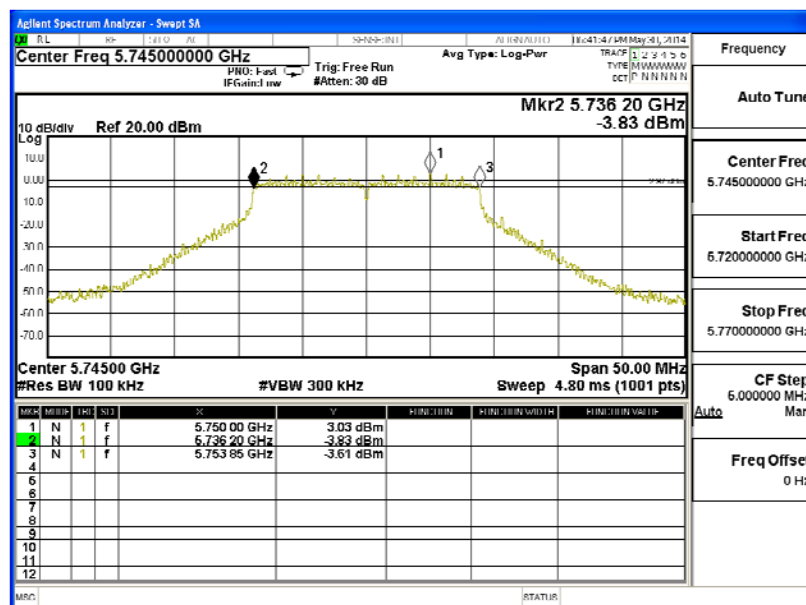
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17650	>500	Pass

Figure Channel 149: (Chain A)



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

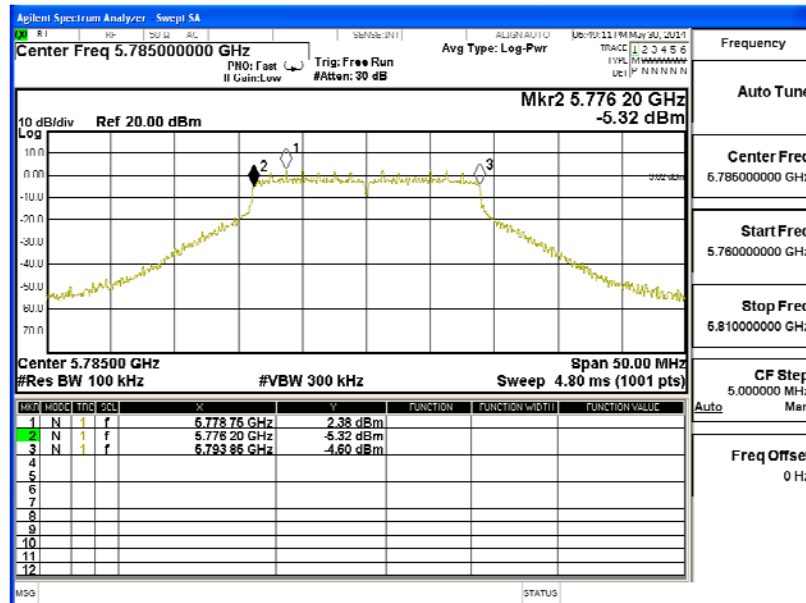
Figure Channel 149: (Chain B)



Product : Access Point
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW-14.4Mbps) (5785MHz) - Sector Antenna

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

Figure Channel 157: (Chain A)



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

Figure Channel 157: (Chain B)

