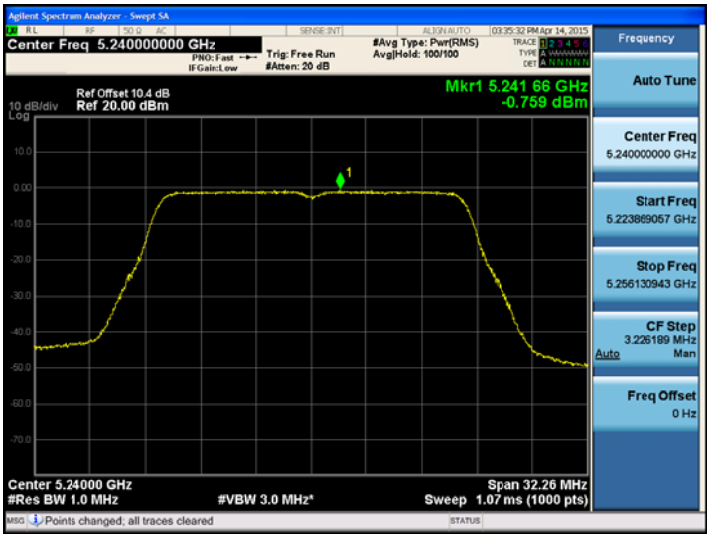
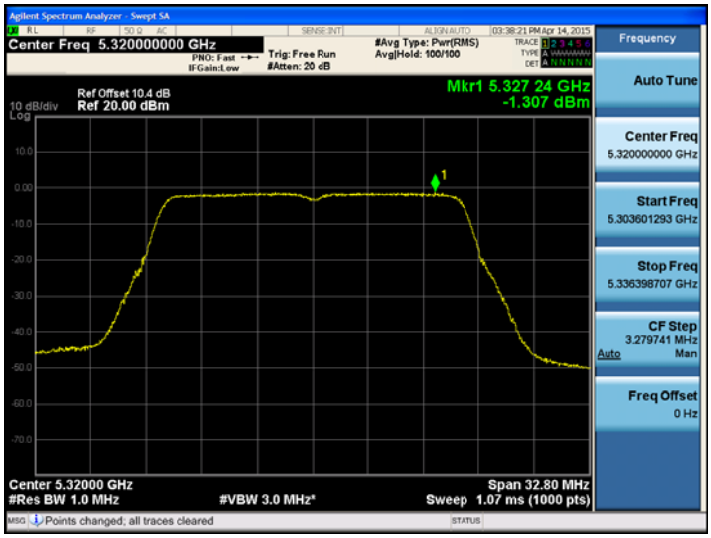
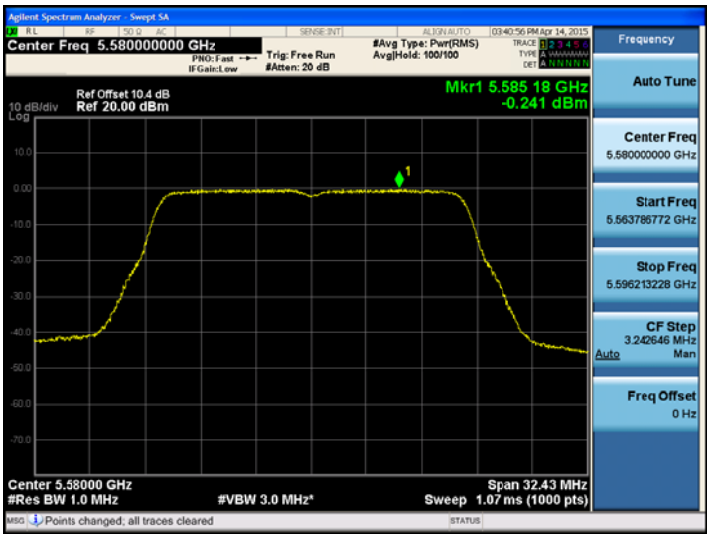
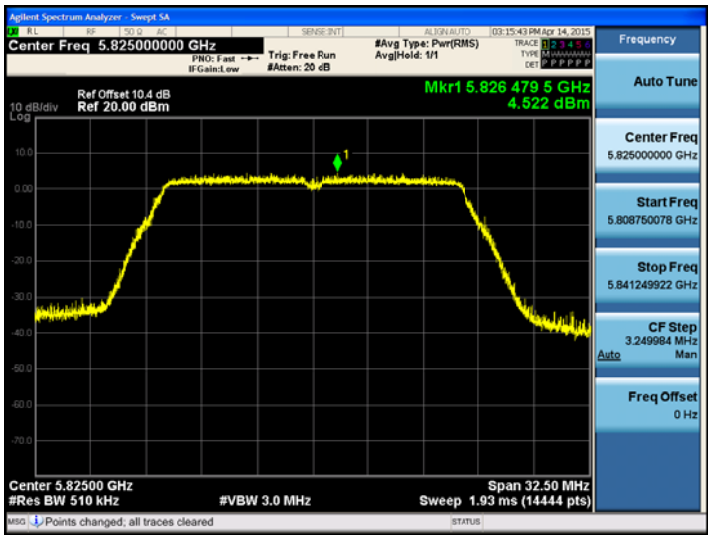
▣ TEST Plot for 802.11ac 20MHz BW

802.11ac_20MHz BW UNII 1 BAND PSD CH 48	802.11ac _20MHz BW UNII 2A BAND PSD CH 64
	
802.11ac _20MHz BW UNII 2C BAND PSD CH 116	**802.11ac _20MHz BW UNII 3 BAND PSD CH 165**
	

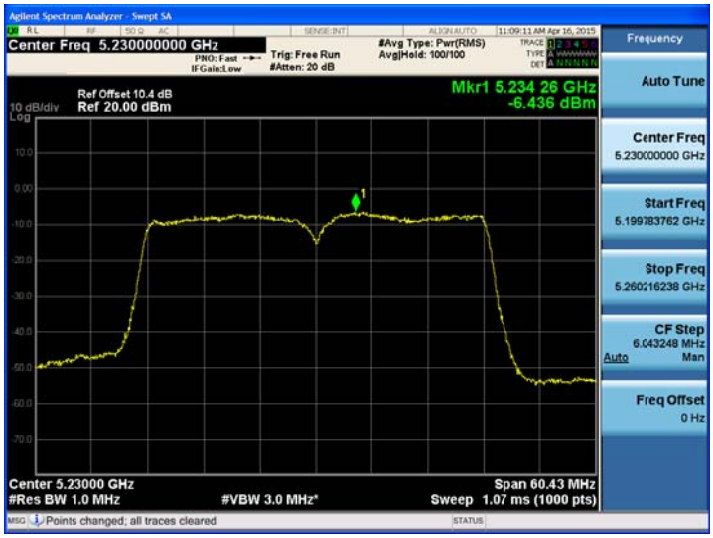
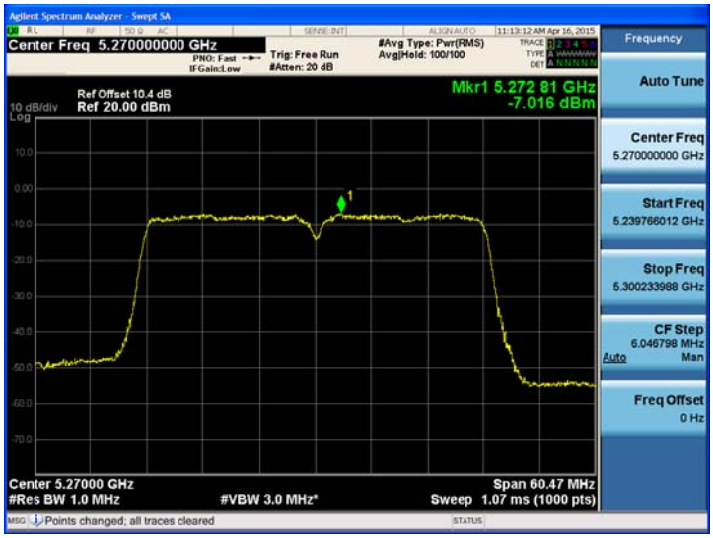
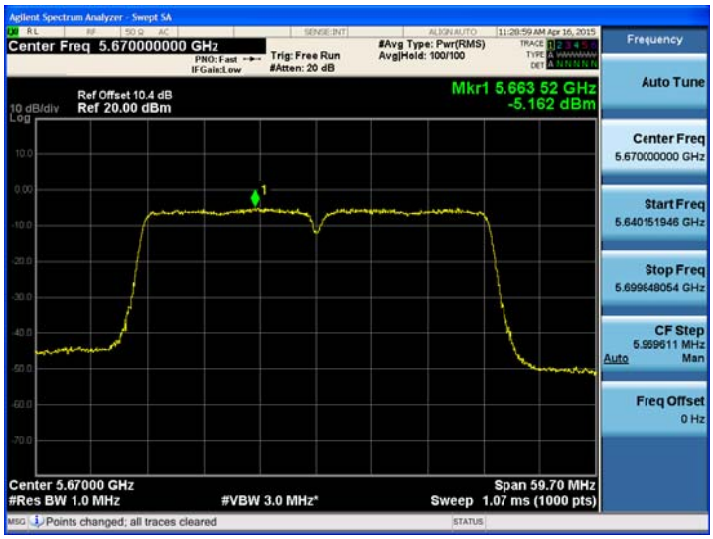
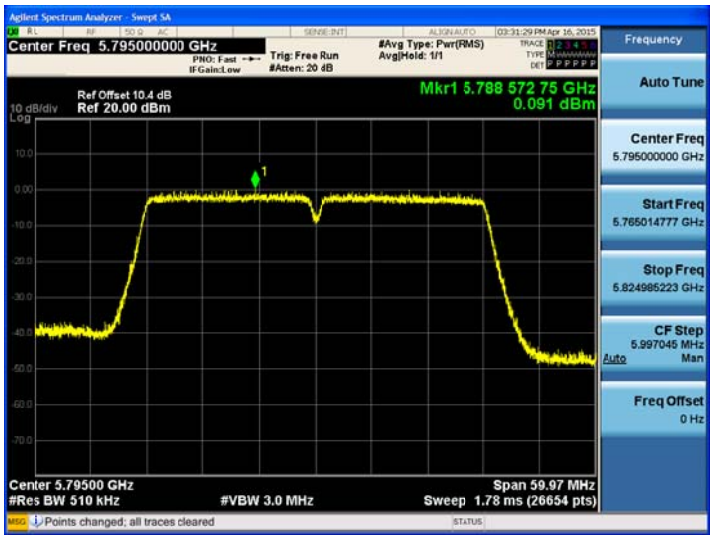
▣ 802.11n_40MHz BW

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n 40MHz BW	-8.086	2.37196	-5.714	11	Pass
5230	46		-6.436	2.37196	-4.064		Pass
5270	54		-7.016	2.54131	-4.475	11	Pass
5310	62		-6.665	1.92885	-4.736		Pass
5510	102		-8.139	1.45180	-6.687	11	Pass
5550	110		-5.736	1.45180	-4.284		Pass
5710	142		-4.798	2.37196	-2.426		Pass
5755	151		0.328	1.45180	1.780	30	Pass
5795	159		0.091	2.54131	2.632		Pass

▣ TEST Plot for 802.11n 40MHz BW

802.11n_40MHz BW UNII 1 BAND PSD CH 46	802.11n_40MHz BW UNII 2A BAND PSD CH 54
	
802.11n_40MHz BW UNII 2C BAND PSD CH 142	**802.11n_40MHz BW UNII 3 BAND PSD CH 159**
	

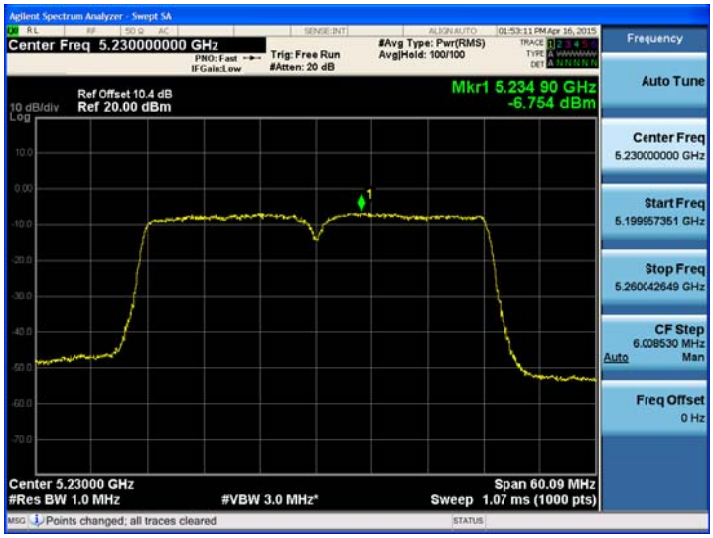
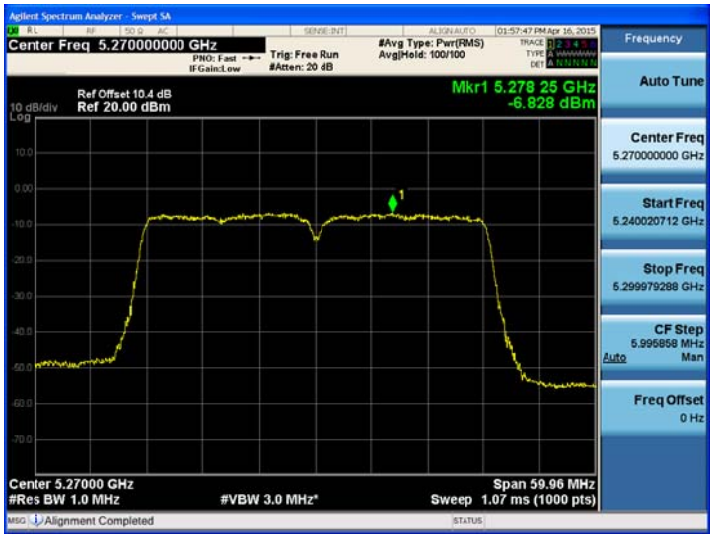
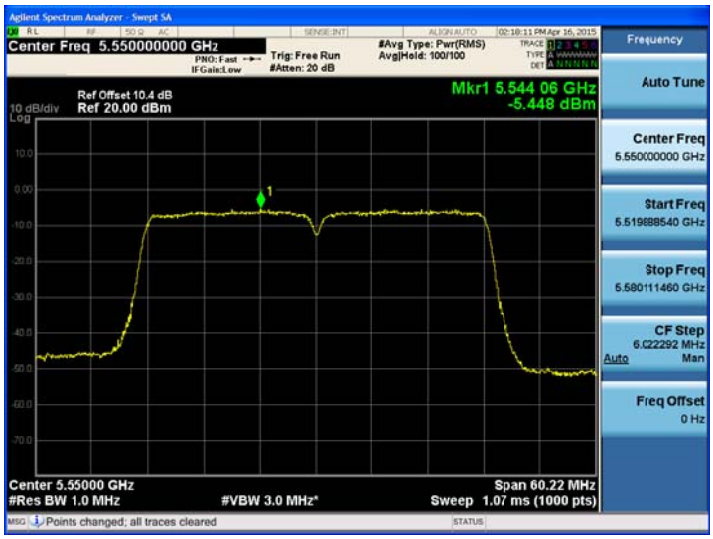
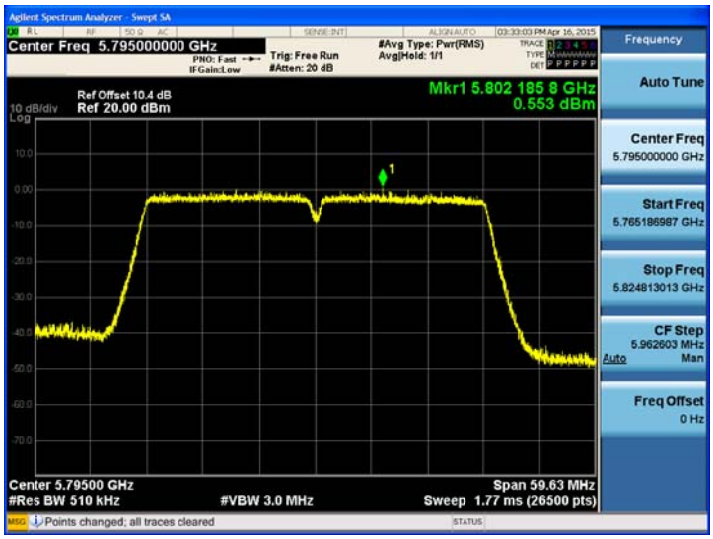
▣ 802.11ac_40MHz BW

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac 40MHz BW	-7.376	1.433201	-5.943	11	Pass
5230	46		-6.754	2.207192	-4.547		Pass
5270	54		-6.828	2.500846	-4.327	11	Pass
5310	62		-7.630	2.830566	-4.799		Pass
5510	102		-8.291	2.207192	-6.084	11	Pass
5550	110		-5.448	1.433201	-4.015		Pass
5710	142		-5.839	1.433201	-4.406		Pass
5755	151		0.390	1.43320	1.823	30	Pass
5795	159		0.553	1.88114	2.434		Pass

▣ TEST Plot for 802.11ac_ 40MHz BW

802.11ac_40MHz BW UNII 1 BAND PSD CH 46	802.11ac_40MHz BW UNII 2A BAND PSD CH 54
	
802.11ac_40MHz BW UNII 2C BAND PSD CH 110	**802.11ac_40MHz BW UNII 3 BAND PSD CH 159**
	

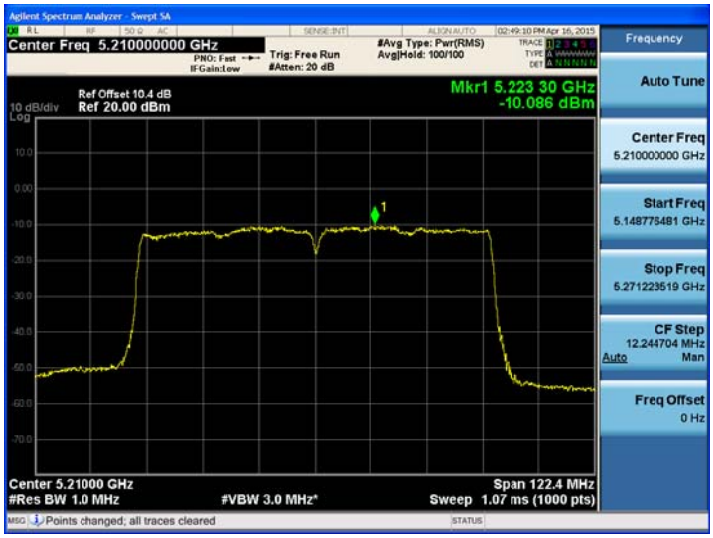
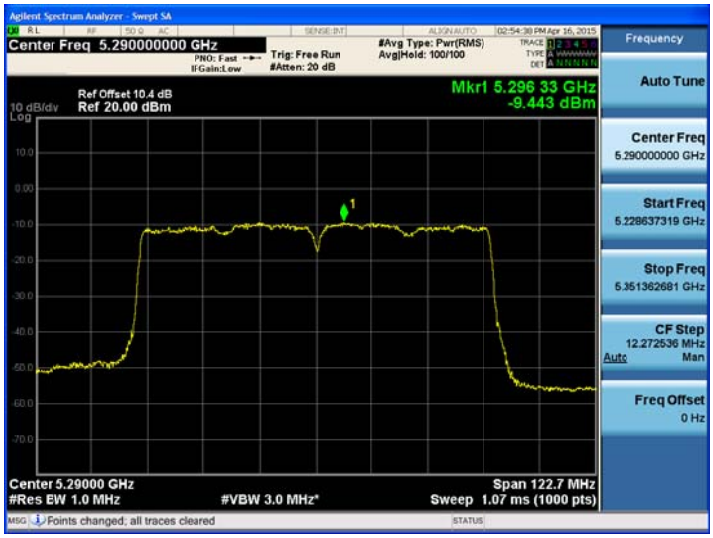
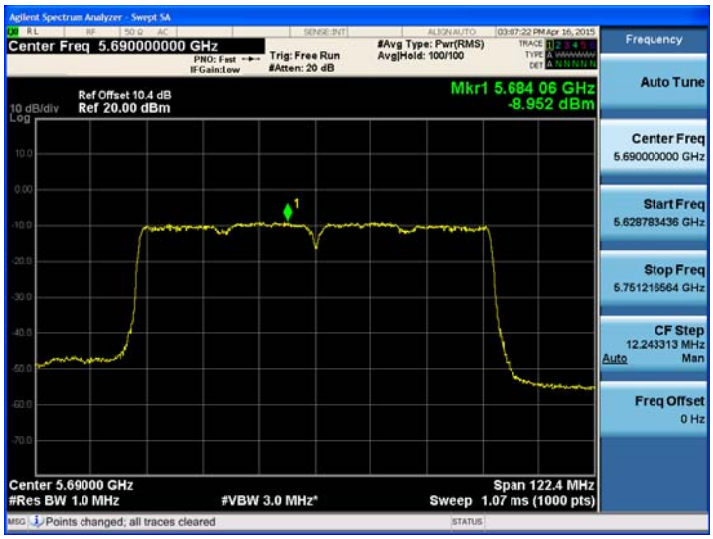
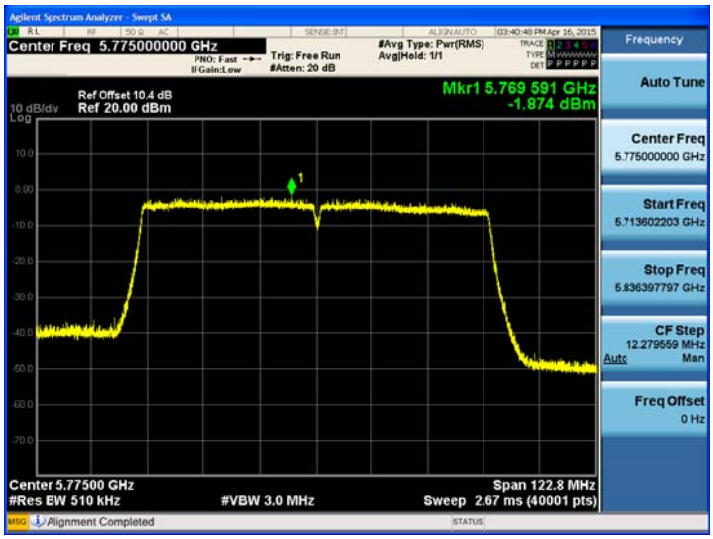
▣ 802.11ac_80MHz BW

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac 80MHz BW	-10.086	3.369426	-6.717	4	Pass
5290	58		-9.443	3.167426	-6.276	11	Pass
5530	106		-10.677	3.167426	-7.510	11	Pass
5690	138		-8.952	3.867878	-5.084	11	Pass
5775	155		-1.874	3.729120	1.855	11	Pass

▣ TEST Plot for 802.11ac_80MHz BW

802.11ac_80MHz BW UNII 1 BAND PSD CH 42	802.11ac_80MHz BW UNII 2A BAND PSD CH 58
	
802.11ac_80MHz BW UNII 2C BAND PSD CH 138	**802.11ac_80MHz BW UNII 3 BAND PSD CH 155**
	

8.5 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 ℃ and 50 ℃. The temperature was incremented by 10 ℃ intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

20 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180034.20	34.20
100%		-30	5180017.90	17.90
100%		-20	5180021.00	21.00
100%		-10	5180024.50	24.50
100%		0	5180027.60	27.60
100%		+10	5180031.10	31.10
100%		+30	5180039.12	39.12
100%		+40	5180042.90	42.90
100%		+50	5180045.60	45.60
Batt. Endpoint	3.27	+20	5180038.00	38.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A

OPERATING FREQUENCY: 5,260,000,000 Hz

CHANNEL: 52

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260034.70	34.70
100%		-30	5260017.60	17.60
100%		-20	5260021.80	21.80
100%		-10	5260024.20	24.20
100%		0	5260027.60	27.60
100%		+10	5260031.00	31.00
100%		+30	5260038.10	38.10
100%		+40	5260042.30	42.30
100%		+50	5260045.70	45.70
Batt. Endpoint	3.27	+20	5260030.00	30.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C

OPERATING FREQUENCY: 5,500,000,000 Hz

CHANNEL: 100

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500035.60	35.60
100%		-30	5500019.10	19.10
100%		-20	5500022.00	22.00
100%		-10	5500025.70	25.70
100%		0	5500028.90	28.90
100%		+10	5500032.40	32.40
100%		+30	5500038.50	38.50
100%		+40	5500042.10	42.10
100%		+50	5500046.90	46.90
Batt. Endpoint	3.27	+20	5500029.40	29.40

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3

OPERATING FREQUENCY: 5,745,000,000 Hz

CHANNEL: 149

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500037.30	37.30
100%		-30	5500019.70	19.70
100%		-20	5500022.60	22.60
100%		-10	5500026.10	26.10
100%		0	5500030.80	30.80
100%		+10	5500033.50	33.50
100%		+30	5500040.20	40.20
100%		+40	5500044.80	44.80
100%		+50	5500047.30	47.30
Batt. Endpoint	3.27	+20	5500033.00	33.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

40 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190034.10	34.10
100%		-30	5190019.30	19.30
100%		-20	5190021.50	21.50
100%		-10	5190024.40	24.40
100%		0	5190027.30	27.30
100%		+10	5190030.70	30.70
100%		+30	5190037.90	37.90
100%		+40	5190040.10	40.10
100%		+50	5190044.50	44.50
Batt. Endpoint	3.27	+20	5190030.80	30.80

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A

OPERATING FREQUENCY: 5,270,000,000 Hz

CHANNEL: 54

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270034.40	34.40
100%		-30	5270017.70	17.70
100%		-20	5270020.00	20.00
100%		-10	5270024.80	24.80
100%		0	5270027.90	27.90
100%		+10	5270031.50	31.50
100%		+30	5270037.60	37.60
100%		+40	5270039.10	39.10
100%		+50	5270043.80	43.80
Batt. Endpoint	3.27	+20	5270031.20	31.20

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C

OPERATING FREQUENCY: 5,510,000,000 Hz

CHANNEL: 100

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510035.90	35.90
100%		-30	5510020.70	20.70
100%		-20	5510024.60	24.60
100%		-10	5510027.30	27.30
100%		0	5510030.10	30.10
100%		+10	5510032.40	32.40
100%		+30	5510039.00	39.00
100%		+40	5510042.50	42.50
100%		+50	5510045.20	45.20
Batt. Endpoint	3.27	+20	5510032.30	32.30

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3

OPERATING FREQUENCY: 5,755,000,000 Hz

CHANNEL: 151

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510037.50	37.50
100%		-30	5510021.60	21.60
100%		-20	5510025.10	25.10
100%		-10	5510027.90	27.90
100%		0	5510031.00	31.00
100%		+10	5510034.10	34.10
100%		+30	5510040.20	40.20
100%		+40	5510044.80	44.80
100%		+50	5510047.00	47.00
Batt. Endpoint	3.27	+20	5510033.50	33.50

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

80 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210034.30	34.30
100%		-30	5210018.90	18.90
100%		-20	5210021.70	21.70
100%		-10	5210024.30	24.30
100%		0	5210027.00	27.00
100%		+10	5210031.60	31.60
100%		+30	5210038.10	38.10
100%		+40	5210042.20	42.20
100%		+50	5210045.70	45.70
Batt. Endpoint	3.27	+20	5210031.50	31.50

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A

OPERATING FREQUENCY: 5,290,000,000 Hz

CHANNEL: 58

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290034.10	34.10
100%		-30	5290017.60	17.60
100%		-20	5290020.50	20.50
100%		-10	5290024.30	24.30
100%		0	5290027.90	27.90
100%		+10	5290030.80	30.80
100%		+30	5290037.60	37.60
100%		+40	5290040.20	40.20
100%		+50	5290044.40	44.40
Batt. Endpoint	3.27	+20	5290031.40	31.40

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C

OPERATING FREQUENCY: 5,530,000,000 Hz

CHANNEL: 106

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530035.80	35.80
100%		-30	5530019.70	19.70
100%		-20	5530023.00	23.00
100%		-10	5530026.10	26.10
100%		0	5530028.90	28.90
100%		+10	5530032.50	32.50
100%		+30	5530037.90	37.90
100%		+40	5530040.30	40.30
100%		+50	5530044.10	44.10
Batt. Endpoint	3.27	+20	5530032.10	32.10

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3

OPERATING FREQUENCY: 5,775,000,000 Hz

CHANNEL: 155

REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530037.30	37.30
100%		-30	5530021.00	21.00
100%		-20	5530024.50	24.50
100%		-10	5530027.80	27.80
100%		0	5530030.30	30.30
100%		+10	5530033.60	33.60
100%		+30	5530039.70	39.70
100%		+40	5530043.40	43.40
100%		+50	5530046.50	46.50
Batt. Endpoint	3.27	+20	5530034.70	34.70

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

8.6 RADIATED MEASUREMENT

8.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209, §15.407

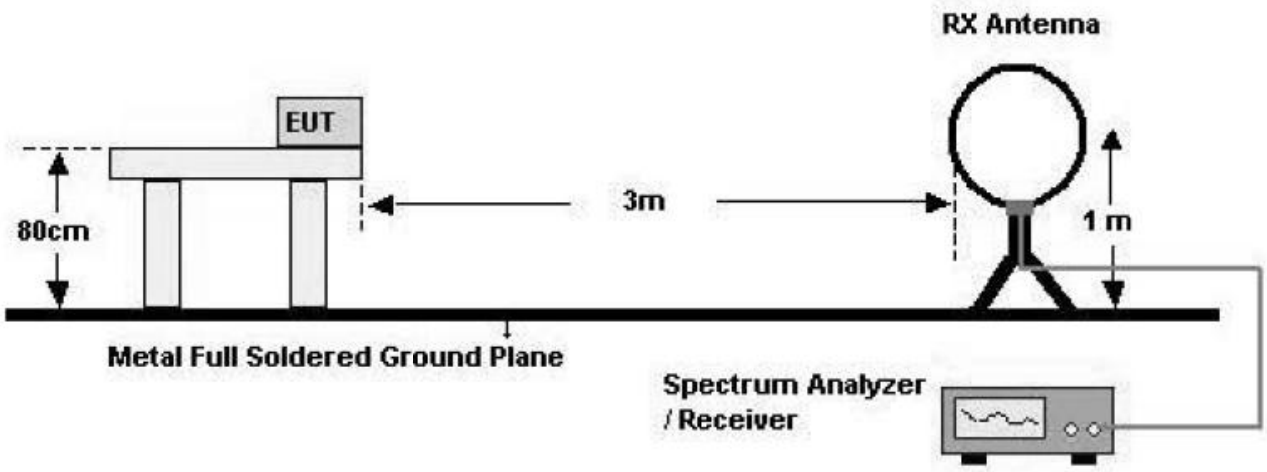
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

▣ §15.407, KDB 789033 D02

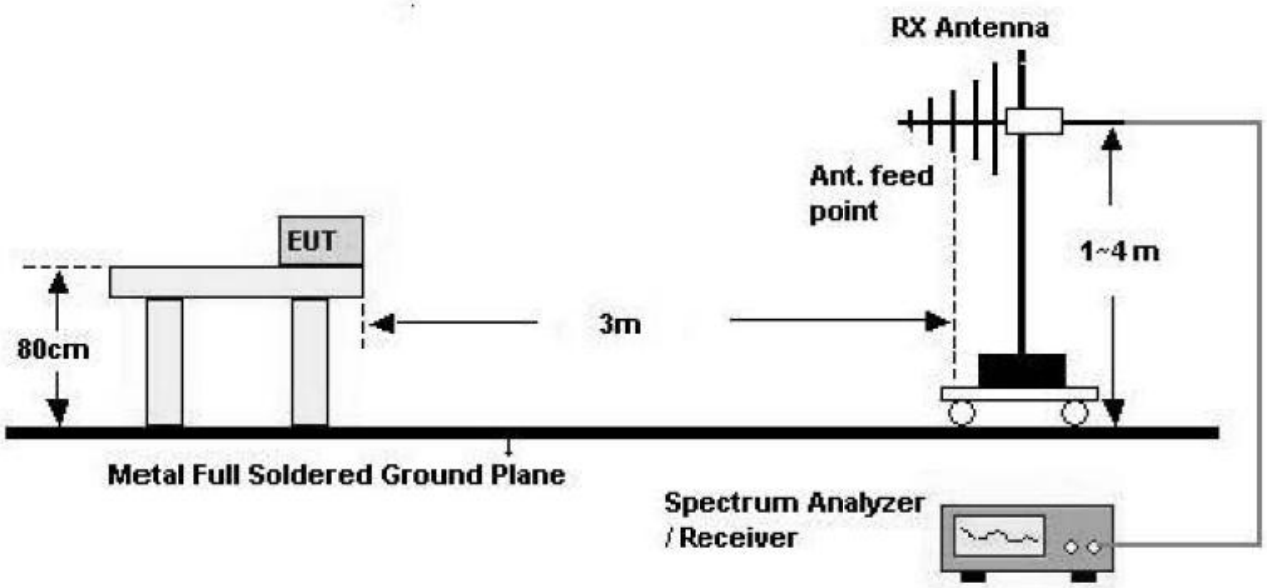
All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dBμV/m. Espectally, for transmitter operating in the 5725 Mhz – 5850 MHz : all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequency 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Test Configuration

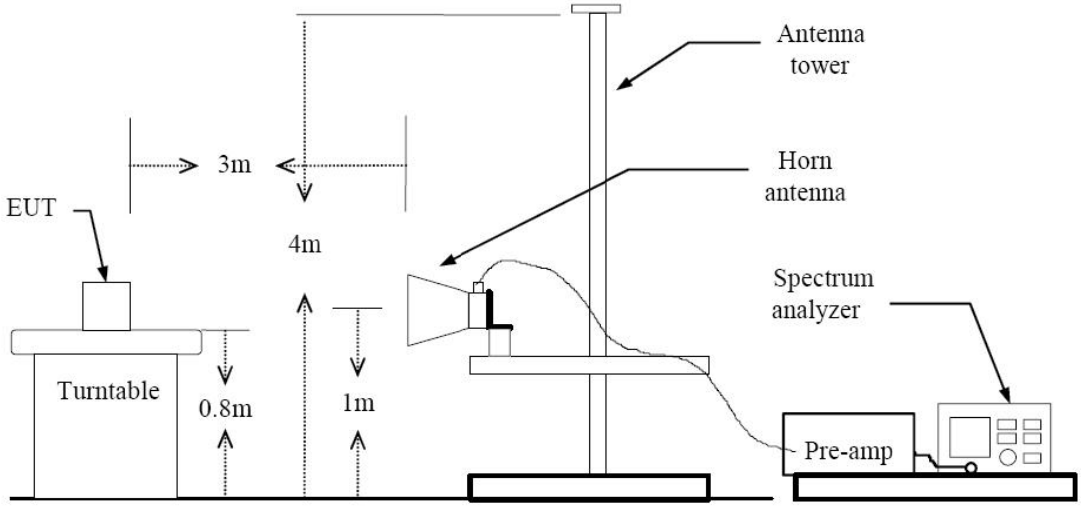
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

ANSI C63.4(2003)

Method H)5) in KDB 789033, issued 06/06/2014 (Peak)

Method H)6)d) in KDB 789033, issued 06/06/2014 (Average)

. Spectrum setting:

- Peak.

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = Peak
4. Sweep Time = auto
5. Trace mode = max hold
6. Allow sweeps to continue until the trace stabilizes.
7. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

- Average (Method VB :Averaging using reduced video bandwidth)

1. RBW = 1 MHz
2. VBW
   2.1. If the EUT is configured to transmit with duty cycle ≥ 98 percent, set VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
   2.2. If the EUT duty cycle is < 98 percent, set VBW ≥ 1/T, where T is the minimum transmission duration.
3. The analyzer is set to linear detector mode.

4. Detector = Peak.
5. Sweep time = auto.
6. Trace mode = max hold.
7. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimym number of traces by a factor of 1/x, where x is the duty cycle.

Note :

1. We used the case 2 for 802.11a/g/n/ac_20/n/ac_40_80 mode to perform the average filed strength measurements.
2. The actual setting value of VBW for 802.11a/g/n/ac_20/n/ac_40_80

Mode	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	**6**	**2.065**	**2.167**	**95.29**	**484**	**3000**
n_20	**6.5**	**1.910**	**2.020**	**94.55**	**524**	**3000**
n_40	**13.5**	**0.942**	**1.046**	**90.01**	**1062**	**3000**
ac_20	**6.5**	**1.921**	**2.034**	**94.44**	**521**	**3000**
ac_40	**13.5**	**0.950**	**1.054**	**90.13**	**1056**	**3000**
ac_80	**29.3**	**0.458**	**0.561**	**81.64**	**2183**	**3000**

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
㎒	dB㎶	dB /m	dB	(H/V)	dB㎶/m	dB㎶/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
㎒	dB㎶	dB /m	dB	(H/V)	dB㎶/m	dB㎶/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Above 1 GHz

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	62.44	-6.51	V	55.93	68.20	12.27	PK
15540	63.24	-6.42	V	56.82	73.98	17.16	PK
15540	49.58	-6.42	V	43.16	53.98	10.82	AV
10360	62.55	-6.51	H	56.04	68.20	12.16	PK
15540	63.02	-6.42	H	56.60	73.98	17.38	PK
15540	49.62	-6.42	H	43.20	53.98	10.78	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	62.88	-6.49	V	56.39	68.20	11.81	PK
15600	63.43	-7.15	V	56.28	73.98	17.70	PK
15600	49.89	-7.15	V	42.74	53.98	11.24	AV
10400	62.73	-6.49	H	56.24	68.20	11.96	PK
15600	63.73	-7.15	H	56.58	73.98	17.40	PK
15600	49.91	-7.15	H	42.76	53.98	11.22	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	62.37	-6.96	V	55.41	68.20	12.79	PK
15720	63.74	-6.62	V	57.12	73.98	16.86	PK
15720	49.97	-6.62	V	43.35	53.98	10.63	AV
10480	62.51	-6.96	H	55.55	68.20	12.65	PK
15720	63.47	-6.96	H	56.51	73.98	17.47	PK
15720	50.00	-6.62	H	43.38	53.98	10.60	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 1
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	62.46	-6.51	V	55.95	68.20	12.25	PK
15540	63.18	-6.42	V	56.76	73.98	17.22	PK
15540	49.57	-6.42	V	43.15	53.98	10.83	AV
10360	62.48	-6.51	H	55.97	68.20	12.23	PK
15540	63.16	-6.42	H	56.74	73.98	17.24	PK
15540	49.60	-6.42	H	43.18	53.98	10.80	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	62.47	-6.49	V	55.98	68.20	12.22	PK
15600	63.36	-7.15	V	56.21	73.98	17.77	PK
15600	49.86	-7.15	V	42.71	53.98	11.27	AV
10400	62.59	-6.49	H	56.10	68.20	12.10	PK
15600	63.29	-7.15	H	56.14	73.98	17.84	PK
15600	49.88	-7.15	H	42.73	53.98	11.25	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	62.48	-6.96	V	55.52	68.20	12.68	PK
15720	63.59	-6.62	V	56.97	73.98	17.01	PK
15720	49.94	-6.62	V	43.32	53.98	10.66	AV
10480	62.69	-6.96	H	55.73	68.20	12.47	PK
15720	63.67	-6.96	H	56.71	73.98	17.27	PK
15720	49.93	-6.62	H	43.31	53.98	10.67	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	62.31	-6.51	V	55.80	68.20	12.40	PK
15540	63.26	-6.42	V	56.84	73.98	17.14	PK
15540	49.56	-6.42	V	43.14	53.98	10.84	AV
10360	62.61	-6.51	H	56.10	68.20	12.10	PK
15540	63.14	-6.42	H	56.72	73.98	17.26	PK
15540	49.58	-6.42	H	43.16	53.98	10.82	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	62.61	-6.49	V	56.12	68.20	12.08	PK
15600	63.19	-7.15	V	56.04	73.98	17.94	PK
15600	49.84	-7.15	V	42.69	53.98	11.29	AV
10400	62.57	-6.49	H	56.08	68.20	12.12	PK
15600	63.21	-7.15	H	56.06	73.98	17.92	PK
15600	49.86	-7.15	H	42.71	53.98	11.27	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	62.54	-6.96	V	55.58	68.20	12.62	PK
15720	63.52	-6.62	V	56.90	73.98	17.08	PK
15720	49.93	-6.62	V	43.31	53.98	10.67	AV
10480	62.81	-6.96	H	55.85	68.20	12.35	PK
15720	63.76	-6.96	H	56.80	73.98	17.18	PK
15720	49.93	-6.62	H	43.31	53.98	10.67	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	62.54	-5.38	V	57.16	68.20	11.04	PK
15570	63.03	-6.41	V	56.62	73.98	17.36	PK
15570	50.00	-6.41	V	43.59	53.98	10.39	AV
10380	62.76	-5.38	H	57.38	68.20	10.82	PK
15570	63.47	-6.41	H	57.06	73.98	16.92	PK
15570	50.10	-6.41	H	43.69	53.98	10.29	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	63.19	-6.88	V	56.31	68.20	11.89	PK
15690	63.33	-6.64	V	56.69	73.98	17.29	PK
15690	49.98	-6.64	V	43.34	53.98	10.64	AV
10460	63.44	-6.88	H	56.56	68.20	11.64	PK
15690	63.01	-6.64	H	56.37	73.98	17.61	PK
15690	50.00	-6.64	H	43.36	53.98	10.62	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	62.77	-5.38	V	57.39	68.20	10.81	PK
15570	63.13	-6.41	V	56.72	73.98	17.26	PK
15570	49.84	-6.41	V	43.43	53.98	10.55	AV
10380	62.48	-5.38	H	57.10	68.20	11.10	PK
15570	63.37	-6.41	H	56.96	73.98	17.02	PK
15570	49.86	-6.41	H	43.45	53.98	10.53	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 1
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	62.98	-6.88	V	56.10	68.20	12.10	PK
15690	63.31	-6.64	V	56.67	73.98	17.31	PK
15690	49.90	-6.64	V	43.26	53.98	10.72	AV
10460	63.01	-6.88	H	56.13	68.20	12.07	PK
15690	63.05	-6.64	H	56.41	73.98	17.57	PK
15690	50.10	-6.64	H	43.46	53.98	10.52	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 1
Operation Mode:	802.11ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	64.02	-6.32	V	57.70	68.20	10.50	PK
15630	63.47	-7.14	V	56.33	73.98	17.65	PK
15630	49.65	-7.14	V	42.51	53.98	11.47	AV
10420	63.77	-6.32	H	57.45	68.20	10.75	PK
15630	63.42	-7.14	H	56.28	73.98	17.70	PK
15630	49.69	-7.14	H	42.55	53.98	11.43	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_80 MHz BW. Worst case is 29.3 Mbps in 802.11ac_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	63.01	-6.52	V	56.49	68.20	11.71	PK
15780	62.99	-6.67	V	56.32	73.98	17.66	PK
15780	49.92	-6.67	V	43.25	53.98	10.73	AV
10520	62.97	-6.52	H	56.45	68.20	11.75	PK
15780	63.42	-6.67	H	56.75	73.98	17.23	PK
15780	49.93	-6.67	H	43.26	53.98	10.72	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	62.87	-6.72	V	56.15	73.98	17.83	62.87
10600	49.12	-6.72	V	42.40	53.98	11.58	49.12
15900	63.19	-7.00	V	56.19	73.98	17.79	63.19
15900	49.91	-7.00	V	42.91	53.98	11.07	49.91
10600	63.17	-6.72	H	56.45	73.98	17.53	63.17
10600	49.14	-6.72	H	42.42	53.98	11.56	49.14
15900	63.30	-7.00	H	56.30	73.98	17.68	63.30
15900	49.94	-7.00	H	42.94	53.98	11.04	49.94

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	62.58	-6.43	V	56.15	73.98	17.83	PK
10640	49.23	-6.43	V	42.80	53.98	11.18	AV
15960	63.11	-6.93	V	56.18	73.98	17.80	PK
15960	48.86	-6.93	V	41.93	53.98	12.05	AV
10640	63.02	-6.43	H	56.59	73.98	17.39	PK
10640	49.24	-6.43	H	42.81	53.98	11.17	AV
15960	62.97	-6.93	H	56.04	73.98	17.94	PK
15960	48.90	-6.93	H	41.97	53.98	12.01	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 2A
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	63.27	-6.52	V	56.75	68.20	11.45	PK
15780	63.21	-6.67	V	56.54	73.98	17.44	PK
15780	49.90	-6.67	V	43.23	53.98	10.75	AV
10520	62.94	-6.52	H	56.42	68.20	11.78	PK
15780	63.55	-6.67	H	56.88	73.98	17.10	PK
15780	49.91	-6.67	H	43.24	53.98	10.74	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	62.77	-6.72	V	56.05	73.98	17.93	PK
10600	49.10	-6.72	V	42.38	53.98	11.60	AV
15900	63.35	-7.00	V	56.35	73.98	17.63	PK
15900	49.90	-7.00	V	42.90	53.98	11.08	AV
10600	63.23	-6.72	H	56.51	73.98	17.47	PK
10600	49.09	-6.72	H	42.37	53.98	11.61	AV
15900	63.19	-7.00	H	56.19	73.98	17.79	PK
15900	49.89	-7.00	H	42.89	53.98	11.09	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	62.68	-6.43	V	56.25	73.98	17.73	PK
10640	49.21	-6.43	V	42.78	53.98	11.20	AV
15960	63.14	-6.93	V	56.21	73.98	17.77	PK
15960	48.83	-6.93	V	41.90	53.98	12.08	AV
10640	63.17	-6.43	H	56.74	73.98	17.24	PK
10640	49.21	-6.43	H	42.78	53.98	11.20	AV
15960	63.03	-6.93	H	56.10	73.98	17.88	PK
15960	48.88	-6.93	H	41.95	53.98	12.03	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5260MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	63.11	-6.52	V	56.59	68.20	11.61	PK
15780	63.32	-6.67	V	56.65	73.98	17.33	PK
15780	49.88	-6.67	V	43.21	53.98	10.77	AV
10520	62.84	-6.52	H	56.32	68.20	11.88	PK
15780	63.68	-6.67	H	57.01	73.98	16.97	PK
15780	49.90	-6.67	H	43.23	53.98	10.75	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	63.28	-6.72	V	56.56	73.98	17.42	PK
10600	49.07	-6.72	V	42.35	53.98	11.63	AV
15900	63.14	-7.00	V	56.14	73.98	17.84	PK
15900	49.88	-7.00	V	42.88	53.98	11.10	AV
10600	63.45	-6.72	H	56.73	73.98	17.25	PK
10600	49.08	-6.72	H	42.36	53.98	11.62	AV
15900	63.46	-7.00	H	56.46	73.98	17.52	PK
15900	49.86	-7.00	H	42.86	53.98	11.12	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	63.01	-6.43	V	56.58	73.98	17.40	PK
10640	49.22	-6.43	V	42.79	53.98	11.19	AV
15960	62.58	-6.93	V	55.65	73.98	18.33	PK
15960	48.68	-6.93	V	41.75	53.98	12.23	AV
10640	63.15	-6.43	H	56.72	73.98	17.26	PK
10640	49.20	-6.43	H	42.77	53.98	11.21	AV
15960	63.00	-6.93	H	56.07	73.98	17.91	PK
15960	48.74	-6.93	H	41.81	53.98	12.17	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	62.67	-5.77	V	56.90	68.20	11.30	PK
15810	63.11	-7.47	V	55.64	73.98	18.34	PK
15810	49.84	-7.47	V	42.37	53.98	11.61	AV
10540	63.05	-5.77	H	57.28	68.20	10.92	PK
15810	62.97	-7.47	H	55.50	73.98	18.48	PK
15810	49.77	-7.47	H	42.30	53.98	11.68	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	63.25	-6.36	V	56.89	73.98	17.09	PK
10620	49.31	-6.36	V	42.95	53.98	11.03	AV
15930	63.51	-6.77	V	56.74	73.98	17.24	PK
15930	49.61	-6.77	V	42.84	53.98	11.14	AV
10620	63.11	-6.36	H	56.75	73.98	17.23	PK
10620	49.25	-6.36	H	42.89	53.98	11.09	AV
15930	63.29	-6.77	H	56.52	73.98	17.46	PK
15930	49.63	-6.77	H	42.86	53.98	11.12	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	63.22	-5.77	V	57.45	68.20	10.75	PK
15810	63.00	-7.47	V	55.53	73.98	18.45	PK
15810	49.75	-7.47	V	42.28	53.98	11.70	AV
10540	62.87	-5.77	H	57.10	68.20	11.10	PK
15810	63.26	-7.47	H	55.79	73.98	18.19	PK
15810	49.78	-7.47	H	42.31	53.98	11.67	AV

Notes

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2A
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	63.29	-6.36	V	56.93	73.98	17.05	PK
10620	49.22	-6.36	V	42.86	53.98	11.12	AV
15930	62.76	-6.77	V	55.99	73.98	17.99	PK
15930	49.52	-6.77	V	42.75	53.98	11.23	AV
10620	62.79	-6.36	H	56.43	73.98	17.55	PK
10620	49.25	-6.36	H	42.89	53.98	11.09	AV
15930	62.94	-6.77	H	56.17	73.98	17.81	PK
15930	49.55	-6.77	H	42.78	53.98	11.20	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 2A
Operation Mode:	802.11ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	63.29	-5.70	V	57.59	68.20	10.61	PK
15870	63.22	-7.27	V	55.95	73.98	18.03	PK
15870	49.63	-7.27	V	42.36	53.98	11.62	AV
10580	63.18	-5.70	H	57.48	68.20	10.72	PK
15870	63.28	-7.27	H	56.01	73.98	17.97	PK
15870	49.67	-7.27	H	42.40	53.98	11.58	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_80 MHz BW. Worst case is 29.3 Mbps in 802.11ac_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	63.28	-5.06	V	58.22	73.98	15.76	PK
11000	49.16	-5.06	V	44.10	53.98	9.88	AV
16500	62.38	-4.35	V	58.03	68.20	10.17	PK
11000	63.71	-5.06	H	58.65	73.98	15.33	PK
11000	49.18	-5.06	H	44.12	53.98	9.86	AV
16500	62.11	-4.35	H	57.76	68.20	10.44	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	63.12	-5.55	V	57.57	73.98	16.41	PK
11160	49.13	-5.55	V	43.58	53.98	10.40	AV
16740	63.21	-3.73	V	59.48	68.20	8.72	PK
11160	62.92	-5.55	H	57.37	73.98	16.61	PK
11160	49.06	-5.55	H	43.51	53.98	10.47	AV
16740	62.72	-3.73	H	58.99	68.20	9.21	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	62.74	-6.08	V	56.66	73.98	17.32	PK
11400	48.66	-6.08	V	42.58	53.98	11.40	AV
17100	62.36	-0.85	V	61.51	68.20	6.69	PK
11400	63.24	-6.08	H	57.16	73.98	16.82	PK
11400	48.74	-6.08	H	42.66	53.98	11.32	AV
17100	62.08	-0.85	H	61.23	68.20	6.97	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 2C
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	63.46	-5.06	V	58.40	73.98	15.58	PK
11000	49.14	-5.06	V	44.08	53.98	9.90	AV
16500	62.54	-4.35	V	58.19	68.20	10.01	PK
11000	63.84	-5.06	H	58.78	73.98	15.20	PK
11000	49.46	-5.06	H	44.40	53.98	9.58	AV
16500	62.22	-4.35	H	57.87	68.20	10.33	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	63.11	-5.55	V	57.56	73.98	16.42	PK
11160	49.11	-5.55	V	43.56	53.98	10.42	AV
16740	63.43	-3.73	V	59.70	68.20	8.50	PK
11160	63.32	-5.55	H	57.77	73.98	16.21	PK
11160	49.05	-5.55	H	43.50	53.98	10.48	AV
16740	62.97	-3.73	H	59.24	68.20	8.96	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	62.90	-6.08	V	56.82	73.98	17.16	PK
11400	48.64	-6.08	V	42.56	53.98	11.42	AV
17100	62.48	-0.85	V	61.63	68.20	6.57	PK
11400	63.11	-6.08	H	57.03	73.98	16.95	PK
11400	48.72	-6.08	H	42.64	53.98	11.34	AV
17100	62.43	-0.85	H	61.58	68.20	6.62	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5500MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	63.11	-5.06	V	58.05	73.98	15.93	PK
11000	49.21	-5.06	V	44.15	53.98	9.83	AV
16500	62.49	-4.35	V	58.14	68.20	10.06	PK
11000	63.29	-5.06	H	58.23	73.98	15.75	PK
11000	49.38	-5.06	H	44.32	53.98	9.66	AV
16500	62.38	-4.35	H	58.03	68.20	10.17	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	62.99	-5.55	V	57.44	73.98	16.54	PK
11160	49.10	-5.55	V	43.55	53.98	10.43	AV
16740	63.22	-3.73	V	59.49	68.20	8.71	PK
11160	63.65	-5.55	H	58.10	73.98	15.88	PK
11160	49.03	-5.55	H	43.48	53.98	10.50	AV
16740	62.74	-3.73	H	59.01	68.20	9.19	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	63.11	-6.08	V	57.03	73.98	16.95	PK
11400	48.62	-6.08	V	42.54	53.98	11.44	AV
17100	62.84	-0.85	V	61.99	68.20	6.21	PK
11400	63.23	-6.08	H	57.15	73.98	16.83	PK
11400	48.70	-6.08	H	42.62	53.98	11.36	AV
17100	62.47	-0.85	H	61.62	68.20	6.58	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	63.01	-5.86	V	57.15	73.98	16.83	PK
11020	48.87	-5.86	V	43.01	53.98	10.97	AV
16530	63.44	-3.75	V	59.69	68.20	8.51	PK
11020	62.97	-5.86	H	57.11	73.98	16.87	PK
11020	48.91	-5.86	H	43.05	53.98	10.93	AV
16530	62.81	-3.75	H	59.06	68.20	9.14	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	62.87	-6.14	V	56.73	73.98	17.25	PK
11180	48.91	-6.14	V	42.77	53.98	11.21	AV
16770	62.98	-3.11	V	59.87	68.20	8.33	PK
11180	63.03	-6.14	H	56.89	73.98	17.09	PK
11180	48.95	-6.14	H	42.81	53.98	11.17	AV
16770	63.45	-3.11	H	60.34	68.20	7.86	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	63.32	-5.10	V	58.22	73.98	15.76	PK
11340	48.91	-5.10	V	43.81	53.98	10.17	AV
17010	62.11	-1.27	V	60.84	68.20	7.36	PK
11340	63.47	-5.10	H	58.37	73.98	15.61	PK
11340	48.93	-5.10	H	43.83	53.98	10.15	AV
17010	62.03	-1.27	H	60.76	68.20	7.44	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	62.93	-5.86	V	57.07	73.98	16.91	PK
11020	48.85	-5.86	V	42.99	53.98	10.99	AV
16530	62.86	-3.75	V	59.11	68.20	9.09	PK
11020	63.06	-5.86	H	57.20	73.98	16.78	PK
11020	48.87	-5.86	H	43.01	53.98	10.97	AV
16530	63.01	-3.75	H	59.26	68.20	8.94	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	62.94	-6.14	V	56.80	73.98	17.18	PK
11180	48.86	-6.14	V	42.72	53.98	11.26	AV
16770	62.58	-3.11	V	59.47	68.20	8.73	PK
11180	63.10	-6.14	H	56.96	73.98	17.02	PK
11180	48.90	-6.14	H	42.76	53.98	11.22	AV
16770	62.96	-3.11	H	59.85	68.20	8.35	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 2C
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	63.08	-6.07	V	57.01	73.98	16.97	PK
11420	48.83	-6.07	V	42.76	53.98	11.22	AV
17130	62.13	-0.81	V	61.32	68.20	6.88	PK
11420	62.73	-6.07	H	56.66	73.98	17.32	PK
11420	48.85	-6.07	H	42.78	53.98	11.20	AV
17130	62.35	-0.81	H	61.54	68.20	6.66	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 2C
Operation Mode:	802.11ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	62.65	-6.21	V	56.44	73.98	17.54	PK
11060	48.39	-6.21	V	42.18	53.98	11.80	AV
16590	62.41	-3.20	V	59.21	68.20	8.99	PK
11060	62.48	-6.21	H	56.27	73.98	17.71	PK
11060	48.43	-6.21	H	42.22	53.98	11.76	AV
16590	62.38	-3.20	H	59.18	68.20	9.02	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_80 MHz BW. Worst case is 29.3 Mbps in 802.11ac_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 2C
Operation Mode:	802.11ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	62.19	-5.59	V	56.60	73.98	17.38	PK
11380	48.51	-5.59	V	42.92	53.98	11.06	AV
17070	63.11	-1.32	V	61.79	68.20	6.41	PK
11380	62.55	-5.59	H	56.96	73.98	17.02	PK
11380	48.58	-5.59	H	42.99	53.98	10.99	AV
17070	63.24	-1.32	H	61.92	68.20	6.28	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_80 MHz BW. Worst case is 29.3 Mbps in 802.11ac_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	64.39	-6.10	V	58.29	73.98	15.69	PK
11490	49.53	-6.10	V	43.43	53.98	10.55	AV
17235	63.01	-1.35	V	61.66	68.20	6.54	PK
11490	64.11	-6.10	H	58.01	73.98	15.97	PK
11490	49.56	-6.10	H	43.46	53.98	10.52	AV
17235	63.14	-1.35	H	61.79	68.20	6.41	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	62.73	-5.57	V	57.16	73.98	16.82	PK
11570	49.22	-5.57	V	43.65	53.98	10.33	AV
17355	62.66	-0.39	V	62.27	68.20	5.93	PK
11570	62.67	-5.57	H	57.10	73.98	16.88	PK
11570	49.22	-5.57	H	43.65	53.98	10.33	AV
17355	62.79	-0.39	H	62.40	68.20	5.80	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	63.11	-6.63	V	56.48	73.98	17.50	PK
11650	49.63	-6.63	V	43.00	53.98	10.98	AV
17475	62.38	0.29	V	62.67	68.20	5.53	62.38
11650	63.26	-6.63	H	56.63	73.98	17.35	63.26
11650	49.66	-6.63	H	43.03	53.98	10.95	49.66
17475	61.96	0.29	H	62.25	68.20	5.95	61.96

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 3
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	63.98	-6.10	V	57.88	73.98	16.10	PK
11490	49.52	-6.10	V	43.42	53.98	10.56	AV
17235	63.29	-1.35	V	61.94	68.20	6.26	PK
11490	64.25	-6.10	H	58.15	73.98	15.83	PK
11490	49.55	-6.10	H	43.45	53.98	10.53	AV
17235	63.33	-1.35	H	61.98	68.20	6.22	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	62.66	-5.57	V	57.09	73.98	16.89	PK
11570	49.19	-5.57	V	43.62	53.98	10.36	AV
17355	62.41	-0.39	V	62.02	68.20	6.18	PK
11570	62.54	-5.57	H	56.97	73.98	17.01	PK
11570	49.21	-5.57	H	43.64	53.98	10.34	AV
17355	62.33	-0.39	H	61.94	68.20	6.26	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	63.42	-6.63	V	56.79	73.98	17.19	PK
11650	49.61	-6.63	V	42.98	53.98	11.00	AV
17475	62.88	0.29	V	63.17	68.20	5.03	PK
11650	63.37	-6.63	H	56.74	73.98	17.24	PK
11650	49.64	-6.63	H	43.01	53.98	10.97	AV
17475	62.03	0.29	H	62.32	68.20	5.88	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	64.32	-6.10	V	58.22	73.98	15.76	PK
11490	49.50	-6.10	V	43.40	53.98	10.58	AV
17235	63.17	-1.35	V	61.82	68.20	6.38	PK
11490	64.11	-6.10	H	58.01	73.98	15.97	PK
11490	49.53	-6.10	H	43.43	53.98	10.55	AV
17235	62.97	-1.35	H	61.62	68.20	6.58	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	63.01	-5.57	V	57.44	73.98	16.54	PK
11570	49.17	-5.57	V	43.60	53.98	10.38	AV
17355	62.97	-0.39	V	62.58	68.20	5.62	PK
11570	62.38	-5.57	H	56.81	73.98	17.17	PK
11570	49.20	-5.57	H	43.63	53.98	10.35	AV
17355	62.76	-0.39	H	62.37	68.20	5.83	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	62.87	-6.63	V	56.24	73.98	17.74	PK
11650	49.60	-6.63	V	42.97	53.98	11.01	AV
17475	63.00	0.29	V	63.29	68.20	4.91	PK
11650	63.11	-6.63	H	56.48	73.98	17.50	PK
11650	49.62	-6.63	H	42.99	53.98	10.99	AV
17475	62.79	0.29	H	63.08	68.20	5.12	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_20 MHz BW. Worst case is 6.5 Mbps in 802.11ac_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII3
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	63.27	-6.26	V	57.01	73.98	16.97	PK
11510	49.49	-6.26	V	43.23	53.98	10.75	AV
17265	62.46	-1.10	V	61.36	68.20	6.84	PK
11510	63.28	-6.26	H	57.02	73.98	16.96	PK
11510	49.53	-6.26	H	43.27	53.98	10.71	AV
17265	62.94	-1.10	H	61.84	68.20	6.36	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	63.56	-5.92	V	57.64	73.98	16.34	PK
11590	49.20	-5.92	V	43.28	53.98	10.70	AV
17385	62.48	-0.24	V	62.24	68.20	5.96	PK
11590	63.74	-5.92	H	57.82	73.98	16.16	PK
11590	49.21	-5.92	H	43.29	53.98	10.69	AV
17385	62.13	-0.24	H	61.89	68.20	6.31	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	63.16	-6.26	V	56.90	73.98	17.08	PK
11510	49.46	-6.26	V	43.20	53.98	10.78	AV
17265	63.05	-1.10	V	61.95	68.20	6.25	PK
11510	63.24	-6.26	H	56.98	73.98	17.00	PK
11510	49.48	-6.26	H	43.22	53.98	10.76	AV
17265	63.07	-1.10	H	61.97	68.20	6.23	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	UNII 3
Operation Mode:	802.11ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	63.31	-5.92	V	57.39	73.98	16.59	PK
11590	49.12	-5.92	V	43.20	53.98	10.78	AV
17385	62.48	-0.24	V	62.24	68.20	5.96	PK
11590	63.29	-5.92	H	57.37	73.98	16.61	PK
11590	49.13	-5.92	H	43.21	53.98	10.77	AV
17385	62.77	-0.24	H	62.53	68.20	5.67	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_40 MHz BW. Worst case is 13.5 Mbps in 802.11ac_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	UNII 3
Operation Mode:	802.11ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	62.87	-5.97	V	56.90	73.98	17.08	PK
11550	49.25	-5.97	V	43.28	53.98	10.70	AV
17325	62.37	-0.24	V	62.13	68.20	6.07	PK
11550	63.07	-5.97	H	57.10	73.98	16.88	PK
11550	49.28	-5.97	H	43.31	53.98	10.67	AV
17325	62.54	-0.24	H	62.30	68.20	5.90	PK

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac_80 MHz BW. Worst case is 29.3 Mbps in 802.11ac_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

8.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.49	8.79	H	59.28	73.98	14.70	PK
5150	37.39	8.79	H	46.18	53.98	7.80	AV
5150	49.12	8.79	V	57.91	73.98	16.07	PK
5150	36.48	8.79	V	45.27	53.98	8.71	AV

Band :	UNII 1
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.26	8.79	H	60.05	73.98	13.93	PK
5150	37.14	8.79	H	45.93	53.98	8.05	AV
5150	50.77	8.79	V	59.56	73.98	14.42	PK
5150	36.45	8.79	V	45.24	53.98	8.74	AV

Band :	UNII 1
Operation Mode:	802.11 ac_20Mz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.18	8.79	H	58.97	73.98	15.01	PK
5150	37.30	8.79	H	46.09	53.98	7.89	AV
5150	49.77	8.79	V	58.56	73.98	15.42	PK
5150	36.89	8.79	V	45.68	53.98	8.30	AV

Band :	UNII 1
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.51	8.79	H	62.30	73.98	11.68	PK
5150	41.87	8.79	H	50.66	53.98	3.32	AV
5150	53.03	8.79	V	61.82	73.98	12.16	PK
5150	41.34	8.79	V	50.13	53.98	3.85	AV

Band :	UNII 1
Operation Mode:	802.11 ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.88	8.79	H	62.67	73.98	11.31	PK
5150	39.99	8.79	H	48.78	53.98	5.20	AV
5150	52.98	8.79	V	61.77	73.98	12.21	PK
5150	39.35	8.79	V	48.14	53.98	5.84	AV

Band :	UNII 1
Operation Mode:	802.11 ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.19	8.79	H	61.98	73.98	12.00	PK
5150	40.28	8.79	H	49.07	53.98	4.91	AV
5150	52.37	8.79	V	61.16	73.98	12.82	PK
5150	39.53	8.79	V	48.32	53.98	5.66	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	50.54	9.28	H	59.82	73.98	14.16	PK
5350	36.93	9.28	H	46.21	53.98	7.77	AV
5350	48.98	9.28	V	58.26	73.98	15.72	PK
5350	36.11	9.28	V	45.39	53.98	8.59	AV

Band :	UNII 2A
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	51.03	9.28	H	60.31	73.98	13.67	PK
5350	36.97	9.28	H	46.25	53.98	7.73	AV
5350	50.43	9.28	V	59.71	73.98	14.27	PK
5350	36.32	9.28	V	45.6	53.98	8.38	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_20Mz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	50.23	9.28	H	59.51	73.98	14.47	PK
5350	36.91	9.28	H	46.19	53.98	7.79	AV
5350	49.71	9.28	V	58.99	73.98	14.99	PK
5350	36.44	9.28	V	45.72	53.98	8.26	AV

Band :	UNII 2A
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	51.83	9.28	H	61.11	73.98	12.87	PK
5350	38.14	9.28	H	47.42	53.98	6.56	AV
5350	51.45	9.28	V	60.73	73.98	13.25	PK
5350	37.43	9.28	V	46.71	53.98	7.27	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	51.29	9.28	H	60.57	73.98	13.41	PK
5350	38.09	9.28	H	47.37	53.98	6.61	AV
5350	50.76	9.28	V	60.04	73.98	13.94	PK
5350	37.42	9.28	V	46.7	53.98	7.28	AV

Band :	UNII 1
Operation Mode:	802.11 ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	50.13	9.28	H	59.41	73.98	14.57	PK
5350	37.32	9.28	H	46.6	53.98	7.38	AV
5350	49.38	9.28	V	58.66	73.98	15.32	PK
5350	36.68	9.28	V	45.96	53.98	8.02	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.66	10.08	H	59.74	73.98	14.24	PK
5460	36.17	10.08	H	46.25	53.98	7.73	AV
*5470	50.14	9.95	H	60.09	68.20	8.11	PK
5460	49.13	10.08	V	59.21	73.98	14.77	PK
5460	35.41	10.08	V	45.49	53.98	8.49	AV
*5470	49.22	9.95	V	59.17	68.20	9.03	PK

Band :	UNII 2C
Operation Mode:	802.11 n_20MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.44	10.08	H	59.52	73.98	14.46	PK
5460	36.22	10.08	H	46.3	53.98	7.68	AV
*5470	49.94	9.95	H	59.89	68.20	8.31	PK
5460	49.12	10.08	V	59.2	73.98	14.78	PK
5460	35.89	10.08	V	45.97	53.98	8.01	AV
*5470	49.32	9.95	V	59.27	68.20	8.93	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.84	10.08	H	59.92	73.98	14.06	PK
5460	36.14	10.08	H	46.22	53.98	7.76	AV
*5470	50.00	9.95	H	59.95	68.20	8.25	PK
5460	49.51	10.08	V	59.59	73.98	14.39	PK
5460	35.68	10.08	V	45.76	53.98	8.22	AV
*5470	49.77	9.95	V	59.72	68.20	8.48	PK

Band :	UNII 2C
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.67	10.08	H	59.75	73.98	14.23	PK
5460	36.19	10.08	H	46.27	53.98	7.71	AV
*5470	50.51	9.95	H	60.46	68.20	7.74	PK
5460	49.21	10.08	V	59.29	73.98	14.69	PK
5460	35.77	10.08	V	45.85	53.98	8.13	AV
*5470	49.87	9.95	V	59.82	68.20	8.38	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	48.67	10.08	H	58.75	73.98	15.23	PK
5460	36.16	10.08	H	46.24	53.98	7.74	AV
*5470	51.13	9.95	H	61.08	68.20	7.12	PK
5460	48.11	10.08	V	58.19	73.98	15.79	PK
5460	35.65	10.08	V	45.73	53.98	8.25	AV
*5470	50.76	9.95	V	60.71	68.20	7.49	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.31	10.08	H	59.39	73.98	14.59	PK
5460	36.70	10.08	H	46.78	53.98	7.20	AV
*5470	50.37	9.95	H	60.32	68.20	7.88	PK
5460	48.89	10.08	V	58.97	73.98	15.01	PK
5460	36.13	10.08	V	46.21	53.98	7.77	AV
*5470	49.67	9.95	V	59.62	68.20	8.58	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	48.61	11.37	H	59.98	78.20	18.22	PK
*5850	48.26	11.37	V	59.63	78.20	18.57	PK
*5860	47.58	11.37	H	58.95	68.20	9.25	PK
*5860	47.62	11.37	V	58.99	68.20	9.21	PK

Band :	UNII 3
Operation Mode:	802.11 n_20MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	48.69	11.37	H	60.06	78.20	18.14	PK
*5850	48.26	11.37	V	59.63	78.20	18.57	PK
*5860	47.14	11.37	H	58.51	68.20	9.69	PK
*5860	46.89	11.37	V	58.26	68.20	9.94	PK

Band :	UNII 3
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	48.10	11.37	H	59.47	78.20	18.73	PK
*5850	48.03	11.37	V	59.4	78.20	18.80	AV
*5860	47.90	11.37	H	59.27	68.20	8.93	PK
*5860	47.91	11.37	V	59.28	68.20	8.92	AV

Band :	UNII 3
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	48.29	11.37	H	59.66	78.20	18.54	PK
*5850	48.14	11.37	V	59.51	78.20	18.69	PK
*5860	47.75	11.37	H	59.12	68.20	9.08	PK
*5860	47.63	11.37	V	59.00	68.20	9.20	PK

Band :	UNII 3
Operation Mode:	802.11 ac_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	48.41	11.37	H	59.78	78.20	18.42	PK
*5850	48.16	11.37	V	59.53	78.20	18.67	AV
*5860	48.55	11.37	H	59.92	68.20	8.28	PK
*5860	48.25	11.37	V	59.62	68.20	8.58	AV

Band :	UNII 3
Operation Mode:	802.11 ac_80 MHz BW
Transfer Rate:	29.3 Mbps
Operating Frequency	5755 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	52.80	11.37	H	64.17	78.20	14.03	PK
5725	52.41	11.37	V	63.78	78.20	14.42	PK
5715	51.86	11.37	H	63.23	68.20	4.97	PK
5715	51.26	11.37	V	62.63	68.20	5.57	PK
5850	48.57	11.37	H	59.94	78.20	18.26	PK
5850	48.12	11.37	V	59.49	78.20	18.71	PK
5860	47.67	11.37	H	59.04	68.20	9.16	PK
5860	47.22	11.37	V	58.59	68.20	9.61	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. '*' is radiated band edge test frequency.(not restricted band emissions)

8.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.
5. We are performed the AC Power Line Conducted Emission test for 52 Mbps, Ch.144 and 802.11n_20 MHZ mode in UNII 2C. Because 802.11n_20 MHZ mode in UNII 2C is worst case.

▣ RESULT PLOTS

Conducted Emissions (Line 1)

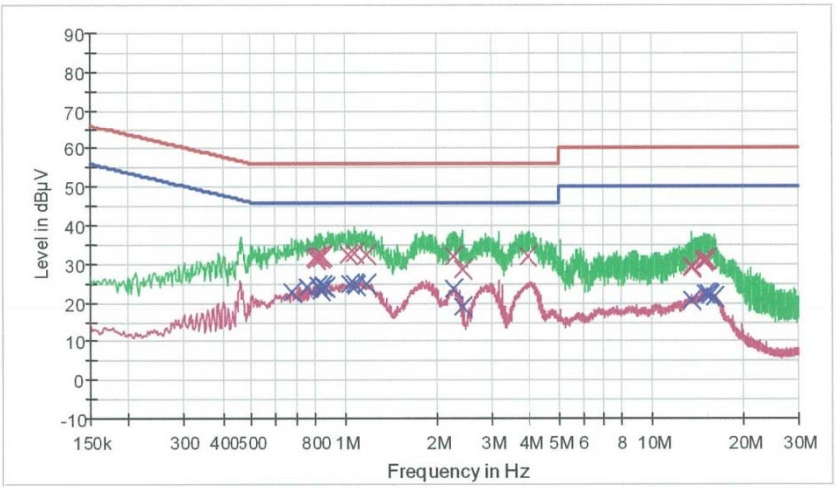
EMI Auto Test(2) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H818P
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN MODE(5 G)
Operator Name:	KS KANG

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.802000	31.5	9.000	Off	N	9.7	24.5	56.0
0.808000	31.8	9.000	Off	N	9.7	24.2	56.0
0.812000	31.1	9.000	Off	N	9.7	24.9	56.0
0.832000	32.1	9.000	Off	N	9.7	23.9	56.0
0.840000	31.6	9.000	Off	N	9.7	24.4	56.0
0.846000	32.2	9.000	Off	N	9.7	23.8	56.0
1.032000	32.3	9.000	Off	N	9.7	23.7	56.0
1.080000	32.9	9.000	Off	N	9.7	23.1	56.0
1.182000	32.5	9.000	Off	N	9.7	23.5	56.0
2.278000	32.1	9.000	Off	N	9.8	23.9	56.0
2.418000	28.7	9.000	Off	N	9.8	27.3	56.0
3.956000	31.8	9.000	Off	N	9.8	24.2	56.0
13.562000	29.6	9.000	Off	N	10.1	30.4	60.0
13.618000	29.0	9.000	Off	N	10.1	31.0	60.0
14.810000	31.0	9.000	Off	N	10.2	29.0	60.0
14.922000	30.9	9.000	Off	N	10.2	29.1	60.0

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Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
15.116000	31.1	9.000	Off	N	10.2	28.9	60.0
15.148000	31.3	9.000	Off	N	10.2	28.7	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.676000	22.7	9.000	Off	N	9.7	23.3	46.0
0.760000	24.2	9.000	Off	N	9.7	21.8	46.0
0.818000	24.4	9.000	Off	N	9.7	21.6	46.0
0.842000	23.3	9.000	Off	N	9.7	22.7	46.0
0.846000	24.3	9.000	Off	N	9.7	21.7	46.0
0.864000	24.2	9.000	Off	N	9.7	21.8	46.0
1.038000	25.0	9.000	Off	N	9.7	21.0	46.0
1.080000	24.8	9.000	Off	N	9.7	21.2	46.0
1.086000	24.2	9.000	Off	N	9.7	21.8	46.0
1.182000	24.8	9.000	Off	N	9.7	21.2	46.0
2.278000	23.7	9.000	Off	N	9.8	22.3	46.0
2.418000	18.8	9.000	Off	N	9.8	27.2	46.0
13.618000	20.7	9.000	Off	N	10.1	29.3	50.0
15.116000	22.6	9.000	Off	N	10.2	27.4	50.0
15.302000	22.2	9.000	Off	N	10.2	27.8	50.0
15.486000	21.9	9.000	Off	N	10.2	28.1	50.0
15.520000	22.0	9.000	Off	N	10.2	28.0	50.0
16.026000	21.3	9.000	Off	N	10.2	28.7	50.0

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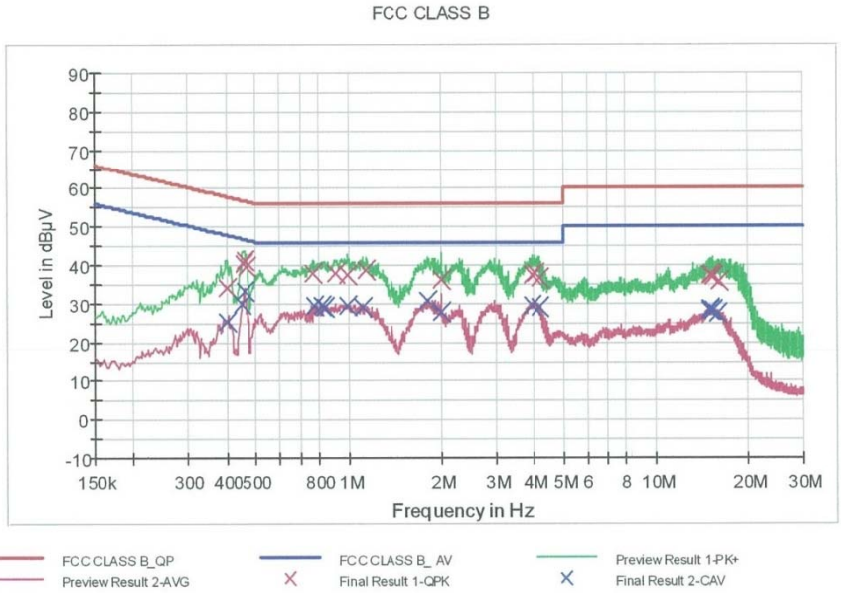
Conducted Emissions (Line 2)

EMI Auto Test(2) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H818P
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN MODE(5 G)
Operator Name:	KS KANG



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.400000	34.2	9.000	Off	L1	9.7	23.7	57.9
0.454000	40.3	9.000	Off	L1	9.7	16.5	56.8
0.460000	41.1	9.000	Off	L1	9.7	15.6	56.7
0.464000	39.7	9.000	Off	L1	9.7	16.9	56.6
0.770000	38.0	9.000	Off	L1	9.7	18.0	56.0
0.904000	37.9	9.000	Off	L1	9.7	18.1	56.0
0.992000	37.6	9.000	Off	L1	9.7	18.4	56.0
1.144000	38.6	9.000	Off	L1	9.7	17.4	56.0
1.998000	36.1	9.000	Off	L1	9.8	19.9	56.0
3.940000	37.6	9.000	Off	L1	9.9	18.4	56.0
4.028000	38.0	9.000	Off	L1	9.9	18.0	56.0
4.172000	36.5	9.000	Off	L1	9.9	19.5	56.0
15.026000	37.5	9.000	Off	L1	10.2	22.5	60.0
15.046000	37.3	9.000	Off	L1	10.2	22.7	60.0
15.052000	37.3	9.000	Off	L1	10.2	22.7	60.0
15.210000	37.6	9.000	Off	L1	10.2	22.4	60.0

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EMI Auto Test(2) 2 / 2

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
15.414000	37.2	9.000	Off	L1	10.2	22.8	60.0
16.086000	35.7	9.000	Off	L1	10.2	24.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.400000	25.4	9.000	Off	L1	9.7	22.5	47.9
0.452000	29.9	9.000	Off	L1	9.7	16.9	46.8
0.460000	33.5	9.000	Off	L1	9.7	13.2	46.7
0.772000	29.5	9.000	Off	L1	9.7	16.5	46.0
0.816000	29.6	9.000	Off	L1	9.7	16.4	46.0
0.834000	29.0	9.000	Off	L1	9.7	17.0	46.0
0.992000	29.4	9.000	Off	L1	9.7	16.6	46.0
1.114000	29.1	9.000	Off	L1	9.7	16.9	46.0
1.816000	30.7	9.000	Off	L1	9.8	15.3	46.0
1.998000	28.0	9.000	Off	L1	9.8	18.0	46.0
3.940000	29.4	9.000	Off	L1	9.9	16.6	46.0
4.172000	28.9	9.000	Off	L1	9.9	17.1	46.0
15.010000	28.5	9.000	Off	L1	10.2	21.5	50.0
15.042000	28.5	9.000	Off	L1	10.2	21.5	50.0
15.046000	28.5	9.000	Off	L1	10.2	21.5	50.0
15.052000	28.4	9.000	Off	L1	10.2	21.6	50.0
15.414000	28.1	9.000	Off	L1	10.2	21.9	50.0
15.968000	27.6	9.000	Off	L1	10.2	22.4	50.0

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9. LIST OF TEST EQUIPMENT

9.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216/ LISN	01/13/2015	Annual	100073
Agilent	E4440A/ Spectrum Analyzer	03/18/2015	Annual	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	05/23/2014	Annual	MY51110063
Agilent	N1911A/Power Meter	01/15/2015	Annual	MY45100523
Agilent	N1921A /POWER SENSOR	07/09/2014	Annual	MY45241059
Agilent	87300B/Directional Coupler	12/08/2014	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/19/2014	Annual	11275
ITECH	IT6720 / DC POWER SUPPLY	11/04/2014	Annual	010002156287001199
Agilent	8493C / Attenuator(10 dB)	07/21/2014	Annual	76649

9.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	10/10/2014	Biennial	3368
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	09/04/2014	Annual	10094
CERNEX	CBL18265035 / POWER AMP	07/23/2014	Annual	22966
Schwarzbeck	BBHA 9120D/ Horn Antenna	07/05/2013	Biennial	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	07/05/2013	Biennial	BBHA9170541
Rohde & Schwarz	FSP / Spectrum Analyzer	10/23/2014	Annual	836650/016
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	06/23/2014	Annual	8
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	08/04/2014	Annual	5
Wainwright Instrument	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/29/2015	Annual	2
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	06/17/2014	Annual	1
Rohde & Schwarz	LOOP ANTENNA	09/03/2014	Biennial	1513-175
CERNEX	CBL06185030 / POWER AMP	07/21/2014	Annual	22965
CERNEX	CBLU1183540 / POWER AMP	07/21/2014	Annual	22964