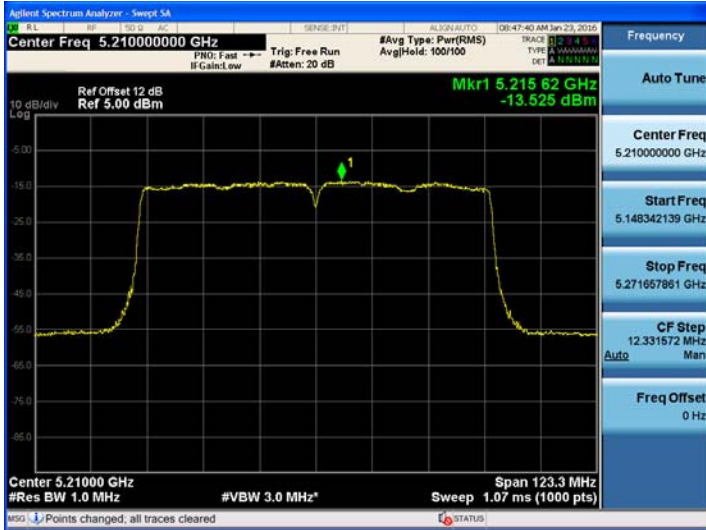


TEST Plot for 802.11ac\_80MHz BW\_Service Port Ant.0

802.11ac\_80MHz BW UNII 1 BAND PSD



802.11ac\_80MHz BW UNII 2A BAND PSD



802.11ac\_80MHz BW UNII 2C BAND PSD



802.11ac\_80MHz BW UNII 3 BAND PSD



■ 802.11ac\_80MHz BW\_Service Port Ant.1

■ TEST RESULTS

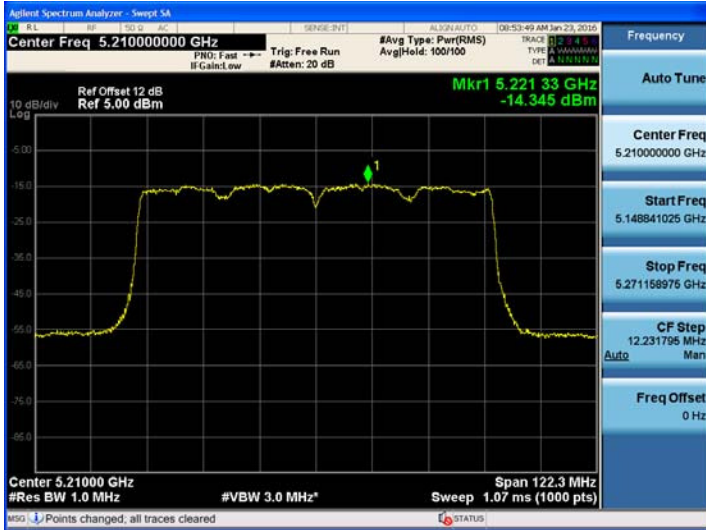
Conducted Power Density Measurements

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	-14.345	1.112	-13.233	3.64	Pass
5290	58		-13.848	1.112	-12.736	10.76	Pass
5530	106		-17.285	1.112	-16.173	11.00	Pass
5690	138		-4.903	1.249	-3.654	11.00	Pass
5775	155		-16.576	0.753	-15.823	30.00	Pass

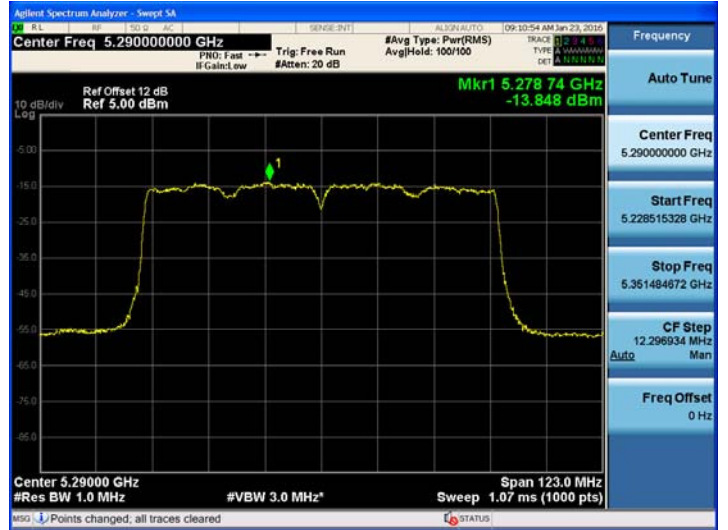
Note : In case of UNII 1 band, we applied IC limit instead of FCC limit because IC limit is worst case.

TEST Plot for 802.11ac\_80MHz BW\_Service Port Ant.1

802.11ac\_80MHz BW UNII 1 BAND PSD



802.11ac\_80MHz BW UNII 2A BAND PSD



802.11ac\_80MHz BW UNII 2C BAND PSD



802.11ac\_80MHz BW UNII 3 BAND PSD



■ 802.11ac\_80MHz BW\_Service Port Ant.2

■ TEST RESULTS

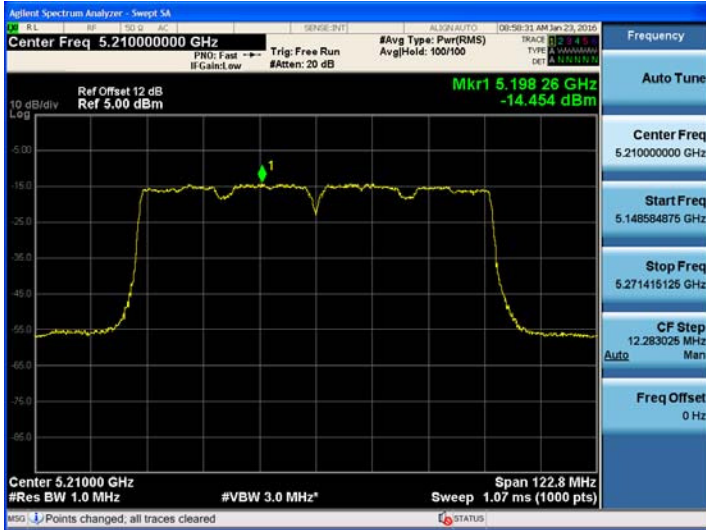
Conducted Power Density Measurements

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	-14.454	1.249	-13.205	4.00	Pass
5290	58		-13.080	0.631	-12.449	11.00	Pass
5530	106		-17.061	1.112	-15.949	11.00	Pass
5690	138		-4.284	0.969	-3.315	11.00	Pass
5775	155		-15.592	1.427	-14.165	30.00	Pass

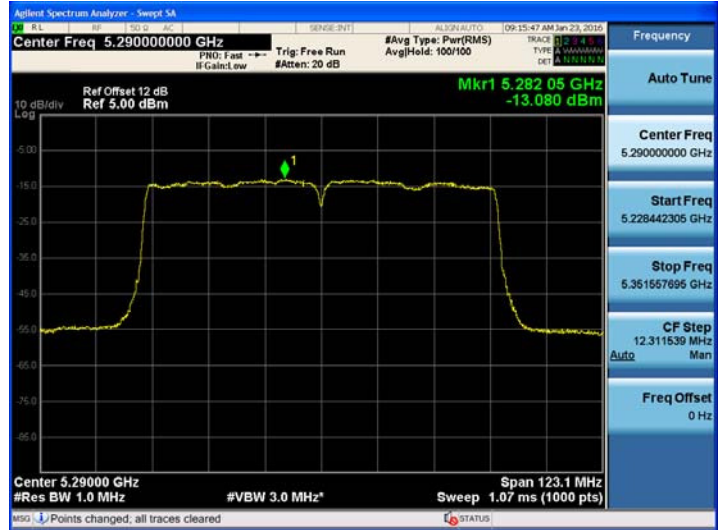
Note : In case of UNII 1 band, we applied IC limit instead of FCC limit because IC limit is worst case.

TEST Plot for 802.11ac\_80MHz BW\_Service Port Ant.2

802.11ac\_80MHz BW UNII 1 BAND PSD



802.11ac\_80MHz BW UNII 2A BAND PSD



802.11ac\_80MHz BW UNII 2C BAND PSD



802.11ac\_80MHz BW UNII 3 BAND PSD



**Sum Data of Ant.0, Ant.1 and Ant.2\_Service Port**

**TEST RESULTS**

**Conducted Power Density Measurements**

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5210	42	802.11ac 80MHz BW	-8.34	-1.04	Pass
5290	58		-7.84	5.92	Pass
5530	106		-11.47	6.31	Pass
5690	138		1.35	6.31	Pass
5775	155		-9.82	25.74	Pass

**Note :** In case of UNII 1 band, we applied IC limit instead of FCC limit because IC limit is worst case.

**Straddle channels**

**TEST RESULTS\_Monitoring Port Ant.0**

**Conducted Power Density Measurements (UNII 2C Band 5720MHz)**

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
5720	144	802.11a	0.295	0.35	0.65	4.82	Pass

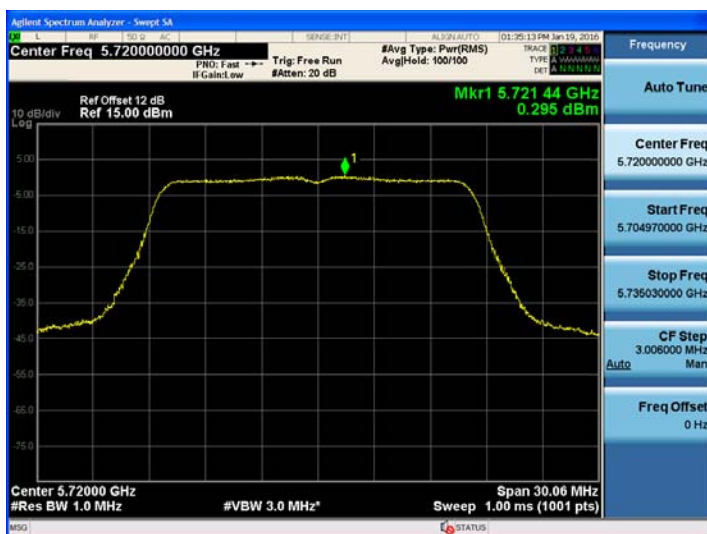
**Conducted Power Density Measurements (UNII 3 Band 5720MHz)**

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
5720	144	802.11a	-3.307	0.35	-2.96	24.77	Pass

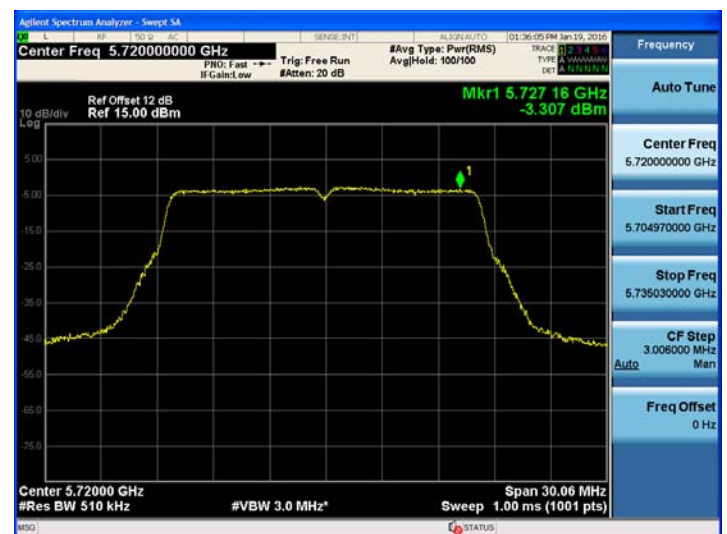
**Straddle channels**

**TEST Plot for 802.11a \_20MHz BW\_Monitoring Port Ant.0**

**802.11a UNII 2C Band PSD CH.144**



**802.11a UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Monitoring Port Ant.1**

**Conducted Power Density Measurements (UNII 2C Band 5720MHz)**

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
5720	144	802.11a	0.594	0.21	0.80	4.82	Pass

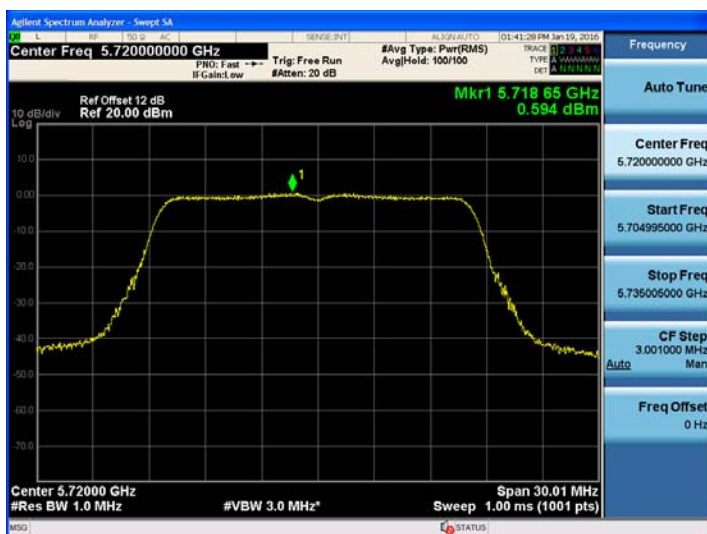
**Conducted Power Density Measurements (UNII 3 Band 5720MHz)**

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
5720	144	802.11a	-2.847	0.21	-2.64	24.77	Pass

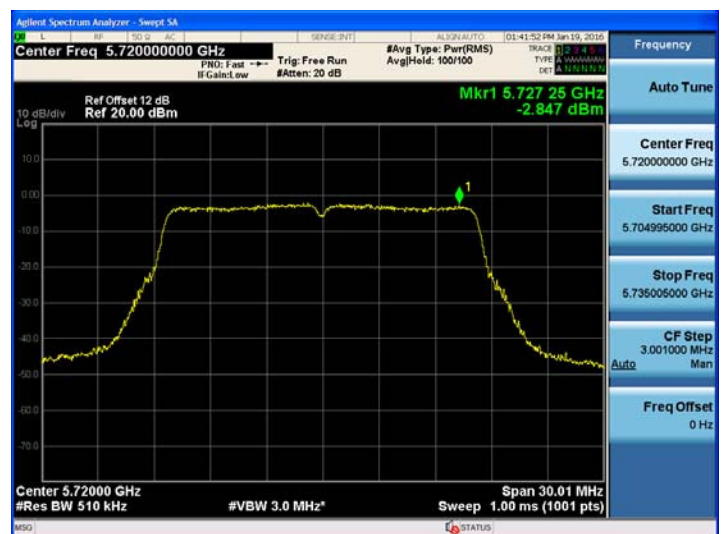
**Straddle channels**

**TEST Plot for 802.11a \_20MHz BW\_Monitoring Port Ant.1**

**802.11a UNII 2C Band PSD CH.144**



**802.11a UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Monitoring Port Ant.2**

**Conducted Power Density Measurements (UNII 2C Band 5720MHz)**

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
5720	144	802.11a	-2.493	0.21	-2.28	4.82	Pass

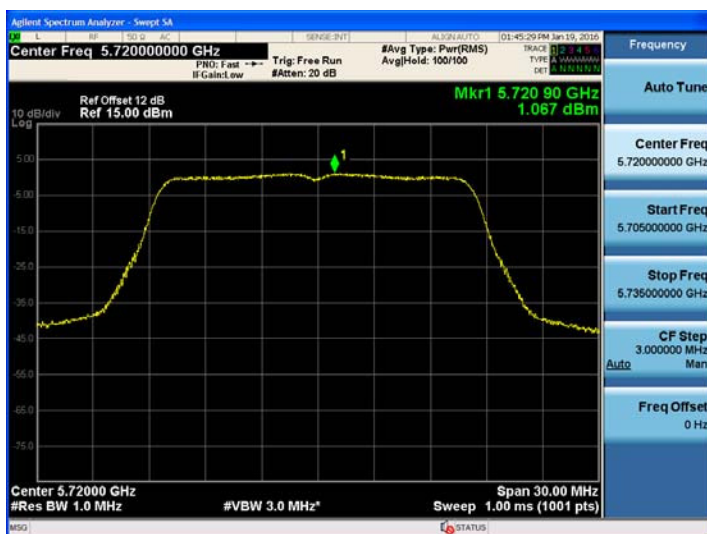
**Conducted Power Density Measurements (UNII 3 Band 5720MHz)**

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
5720	144	802.11a	1.067	0.21	1.28	24.77	Pass

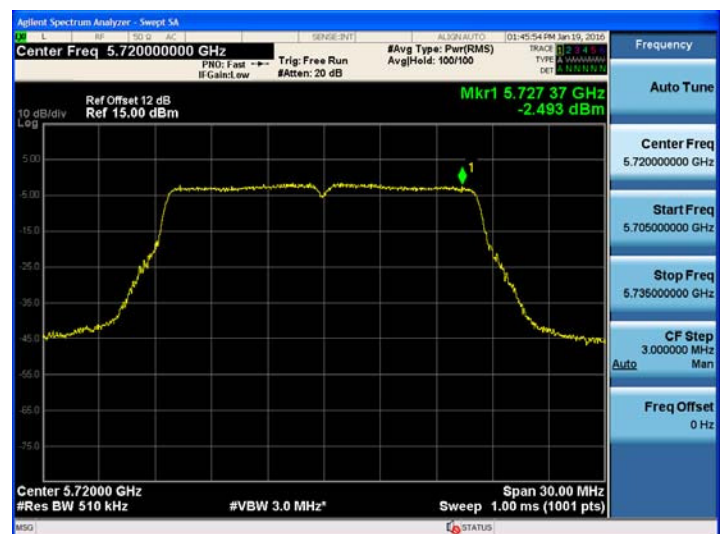
**Straddle channels**

**TEST Plot for 802.11a \_20MHz BW\_Monitoring Port Ant.2**

**802.11a UNII 2C Band PSD CH.144**



**802.11a UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.0**

**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 2C Band 5720MHz)**

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
5720	144	802.11a	0.018	0.22	0.24	10.66	Pass
		802.11n_20MHz	-0.471	0.40	-0.07	10.66	Pass
		802.11ac_20MHz	-0.094	0.51	0.42	10.66	Pass

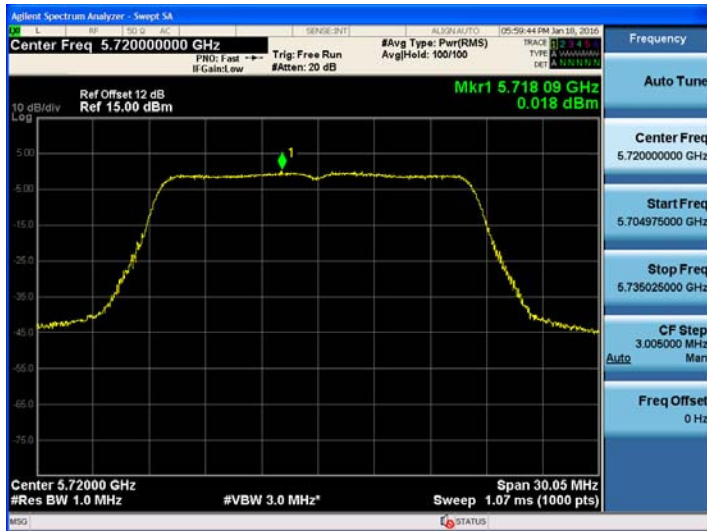
**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 3 Band 5720MHz)**

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
5720	144	802.11a	-3.767	0.22	-3.55	29.83	Pass
		802.11n_20MHz	-3.804	0.40	-3.40	29.83	Pass
		802.11ac_20MHz	-3.776	0.51	-3.27	29.83	Pass

**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.0**

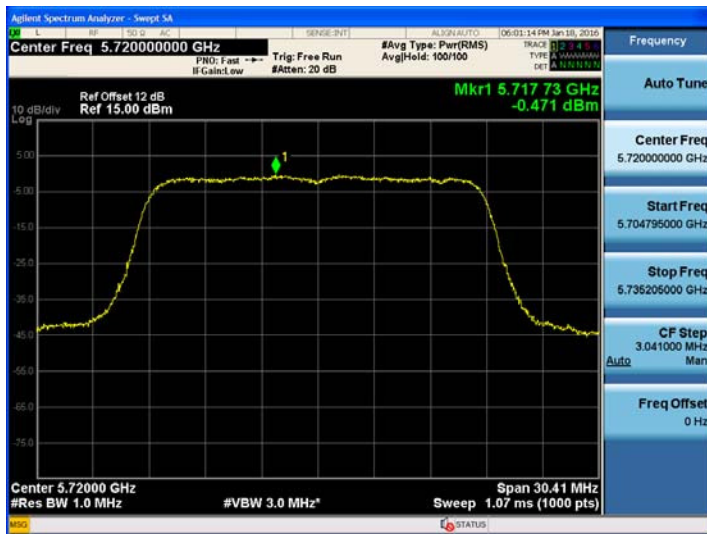
**802.11a UNII 2C Band PSD CH.144**



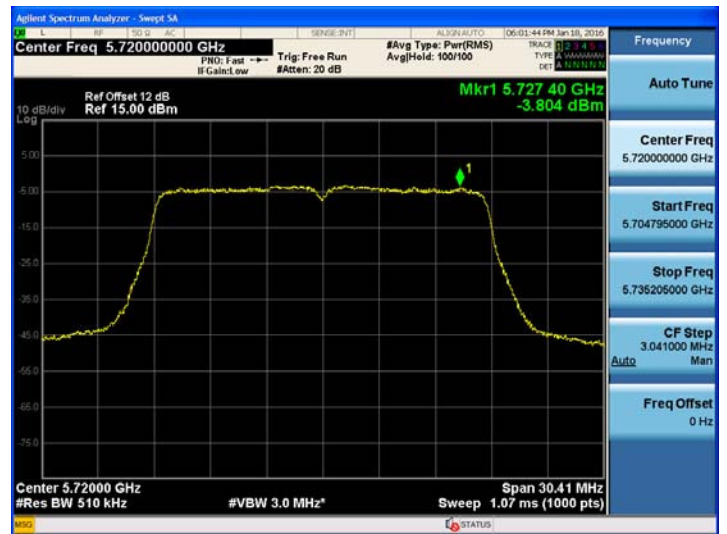
**802.11a UNII 3 Band PSD CH.144**



**802.11n UNII 2C Band PSD CH.144**



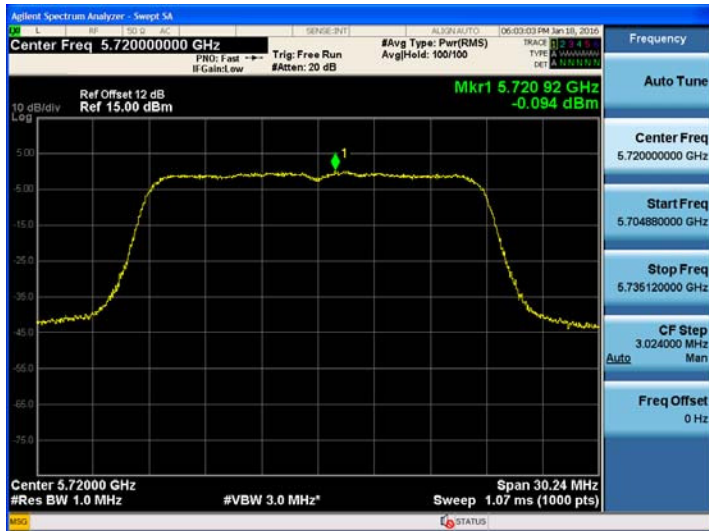
**802.11n UNII 3 Band PSD CH.144**



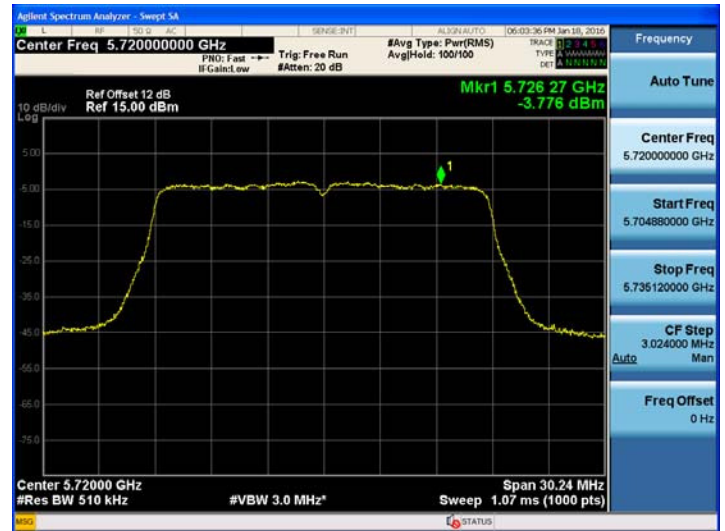
**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.0**

**802.11ac UNII 2C Band PSD CH.144**



**802.11ac UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.1**

**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 2C Band 5720MHz)**

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
5720	144	802.11a	-0.855	0.21	-0.65	11.00	Pass
		802.11n_20MHz	-0.937	0.37	-0.57	11.00	Pass
		802.11ac_20MHz	-0.383	0.48	0.10	11.00	Pass

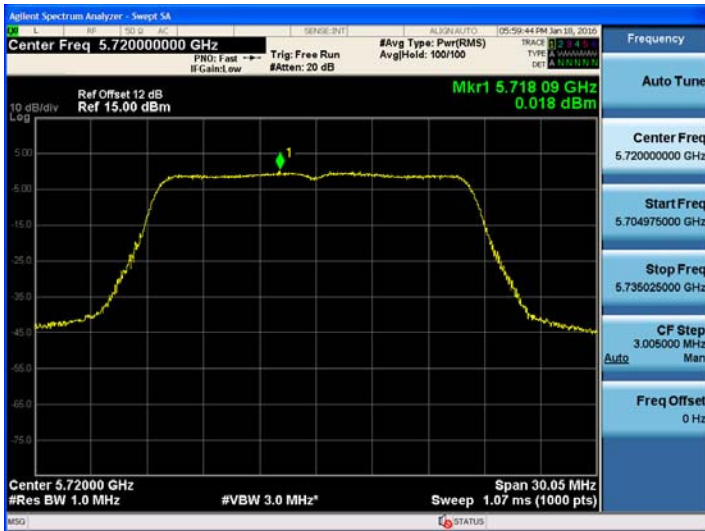
**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 3 Band 5720MHz)**

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
5720	144	802.11a	-4.377	0.21	-4.17	30.00	Pass
		802.11n_20MHz	-4.119	0.37	-3.75	30.00	Pass
		802.11ac_20MHz	-4.233	0.48	-3.75	30.00	Pass

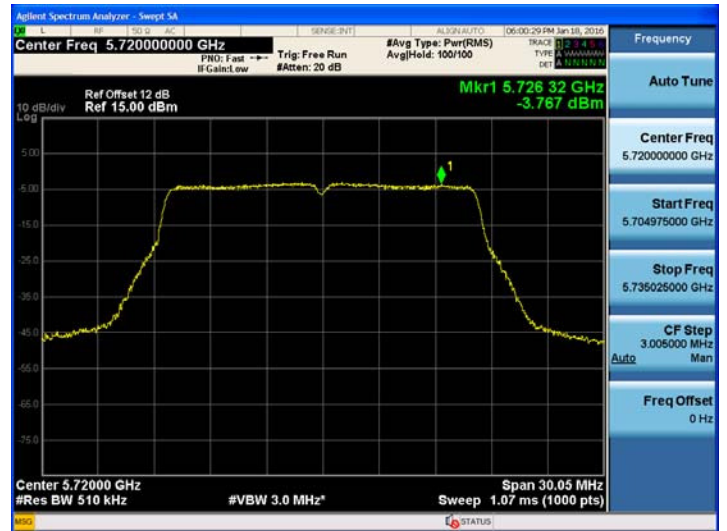
**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.1**

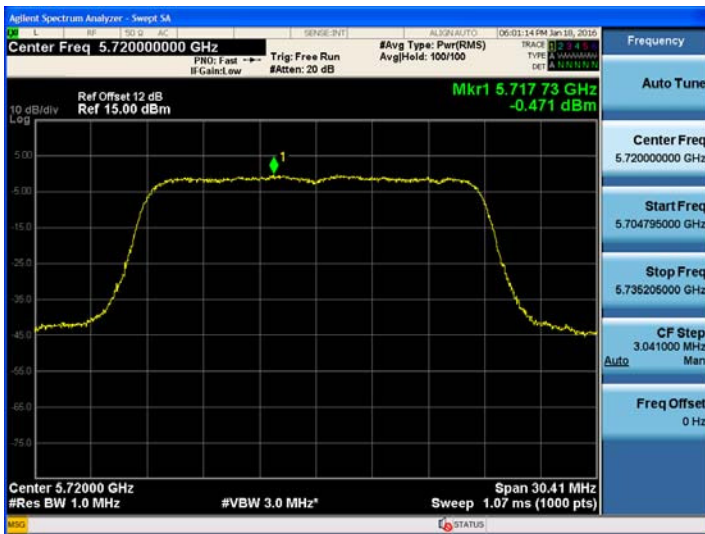
**802.11a UNII 2C Band PSD CH.144**



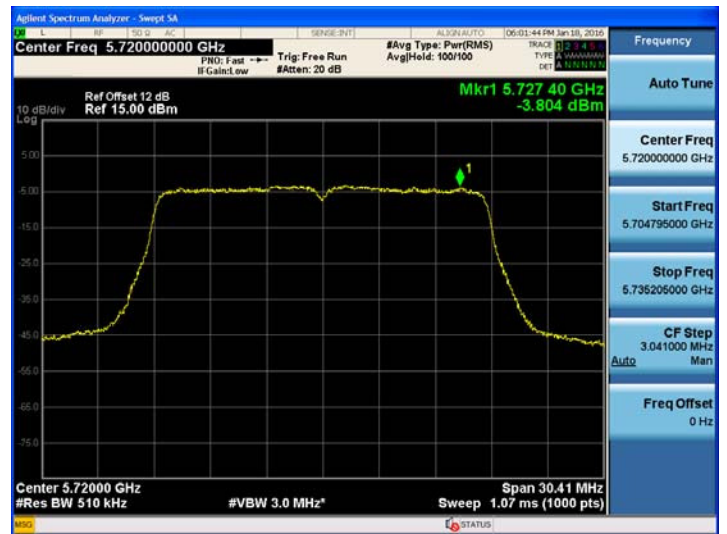
**802.11a UNII 3 Band PSD CH.144**



**802.11n UNII 2C Band PSD CH.144**



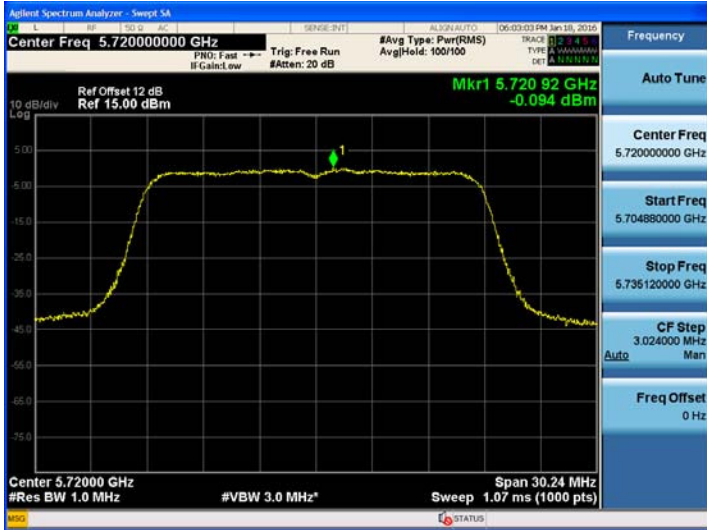
**802.11n UNII 3 Band PSD CH.144**



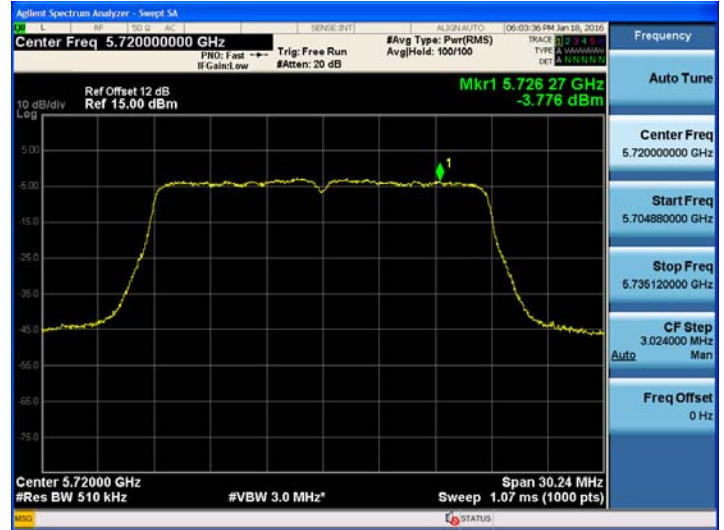
**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.1**

**802.11ac UNII 2C Band PSD CH.144**



**802.11ac UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.2**

**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 2C Band 5720MHz)**

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
5720	144	802.11a	-0.164	0.35	0.19	11.00	Pass
		802.11n_20MHz	-0.294	0.40	0.11	11.00	Pass
		802.11ac_20MHz	0.065	0.48	0.55	11.00	Pass

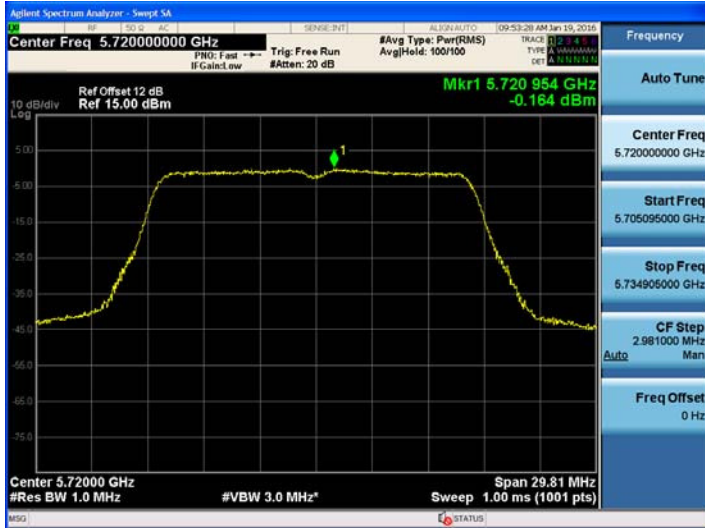
**Conducted Power Density Measurements (802.11a/n/ac \_20M Mode: UNII 3 Band 5720MHz)**

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
5720	144	802.11a	-3.363	0.35	-3.01	30.00	Pass
		802.11n_20MHz	-4.241	0.40	-3.84	30.00	Pass
		802.11ac_20MHz	-3.583	0.48	-3.10	30.00	Pass

**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.2**

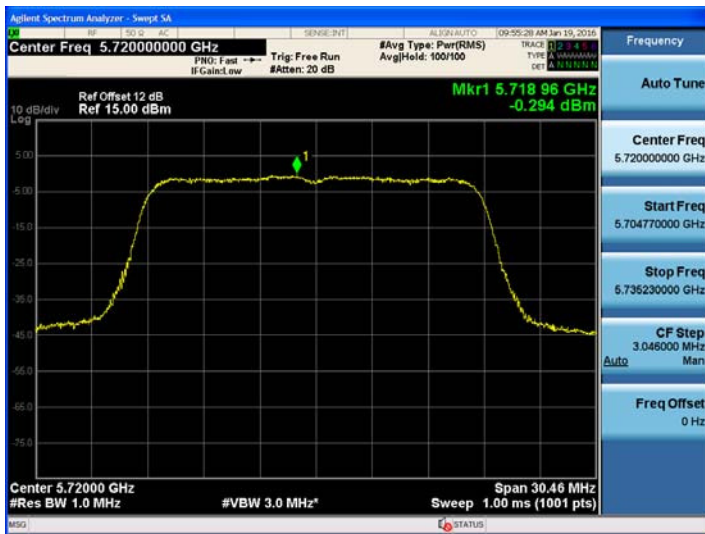
**802.11a UNII 2C Band PSD CH.144**



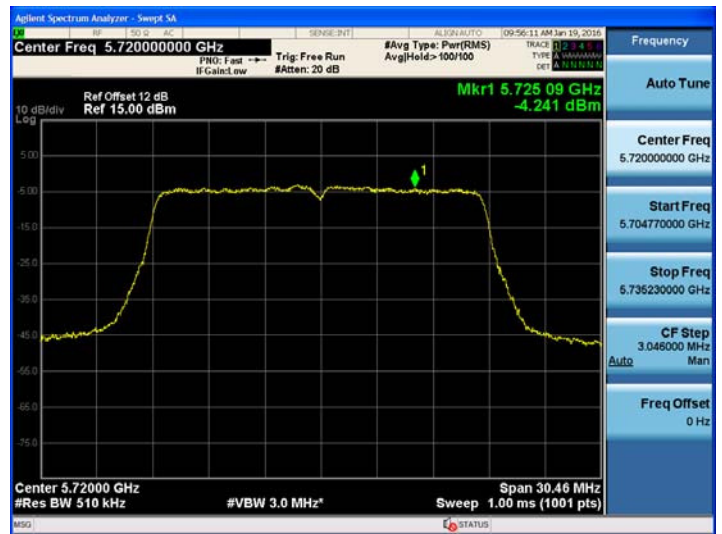
**802.11a UNII 3 Band PSD CH.144**



**802.11n UNII 2C Band PSD CH.144**



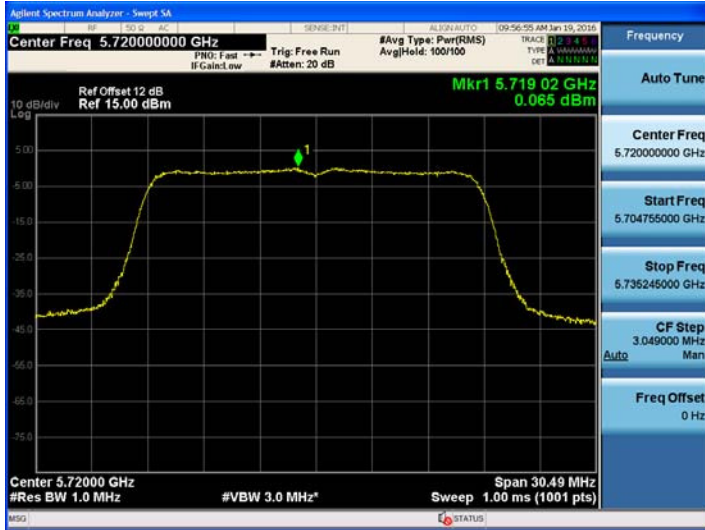
**802.11n UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST Plot for 802.11a/n/ac \_20MHz BW\_Service Port Ant.2**

**802.11ac UNII 2C Band PSD CH.144**



**802.11ac UNII 3 Band PSD CH.144**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.0**

**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 2C Band 5710MHz)**

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
5710	142	802.11n_40MHz	-1.493	0.72	-0.77	10.66	Pass
		802.11ac_40MHz	-4.835	0.61	-4.23	10.66	Pass

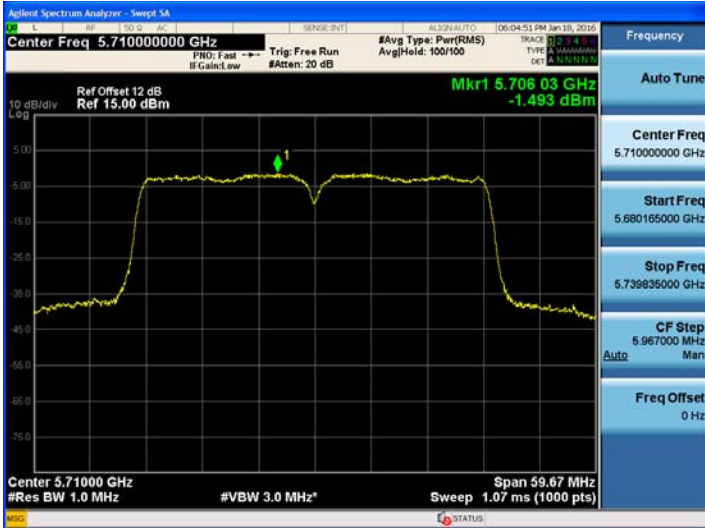
**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 3 Band 5710MHz)**

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
5710	142	802.11n_40MHz	-1.030	0.72	-0.31	29.83	Pass
		802.11ac_40MHz	-4.959	0.61	-4.35	29.83	Pass

**Straddle channels**

**TEST Plot for 802.11n/ac\_40MHz BW\_Service Port Ant.0**

**802.11n\_40MHz BW UNII 2C Band PSD CH.142**



**802.11n\_40MHz BW UNII 3 Band PSD CH.142**



**802.11ac\_40MHz BW UNII 2C Band PSD CH.142**



**802.11ac\_40MHz BW UNII 3 Band PSD CH.142**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.1**

**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 2C Band 5710MHz)**

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
5710	142	802.11n_40MHz	-1.339	0.44	-0.90	11.00	Pass
		802.11ac_40MHz	-1.585	0.77	-0.82	11.00	Pass

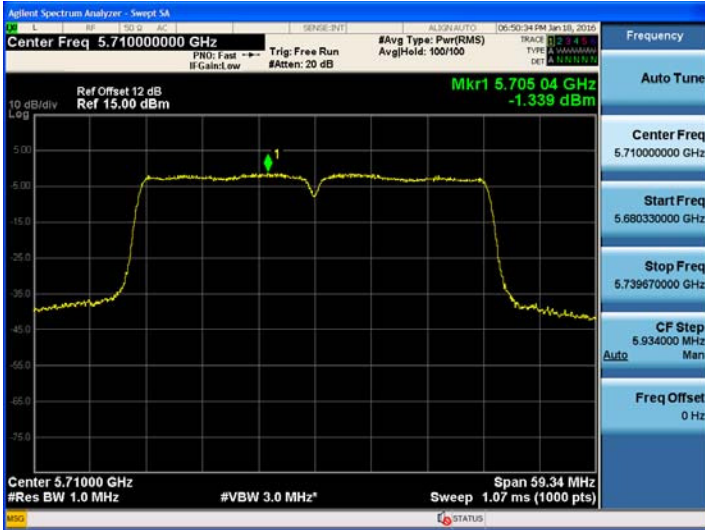
**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 3 Band 5710MHz)**

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
5710	142	802.11n_40MHz	-5.675	0.44	-5.24	30.00	Pass
		802.11ac_40MHz	-5.381	0.77	-4.61	30.00	Pass

**Straddle channels**

**TEST Plot for 802.11n/ac\_40MHz BW\_Service Port Ant.1**

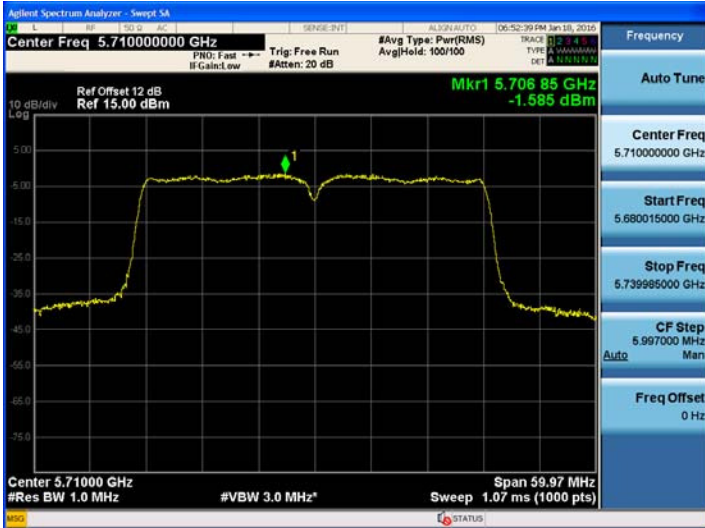
**802.11n\_40MHz BW UNII 2C Band PSD CH.142**



**802.11n\_40MHz BW UNII 3 Band PSD CH.142**



**802.11ac\_40MHz BW UNII 2C Band PSD CH.142**



**802.11ac\_40MHz BW UNII 3 Band PSD CH.142**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.2**

**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 2C Band 5710MHz)**

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
5710	142	802.11n_40MHz	-1.186	0.50	-0.69	11.00	Pass
		802.11ac_40MHz	-1.399	0.77	-0.63	11.00	Pass

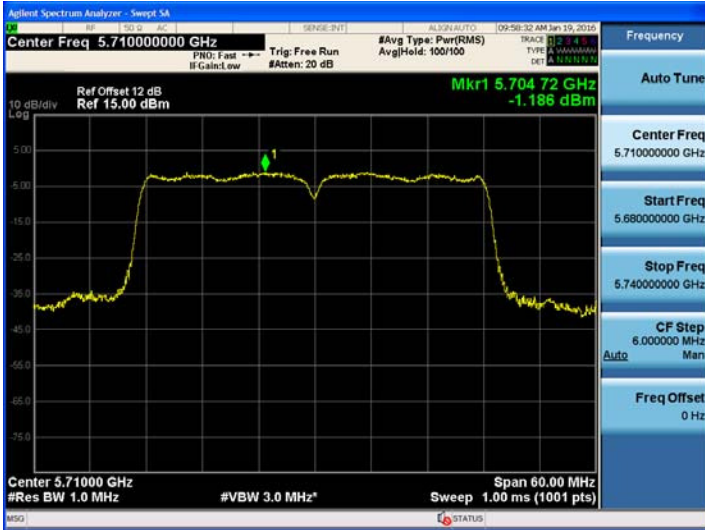
**Conducted Power Density Measurements (802.11n/ac\_40M Mode: UNII 3 Band 5710MHz)**

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
5710	142	802.11n_40MHz	-4.831	0.50	-4.33	30.00	Pass
		802.11ac_40MHz	-4.888	0.77	-4.12	30.00	Pass

**Straddle channels**

**TEST Plot for 802.11n/ac \_40MHz BW\_Service Port Ant.2**

**802.11n\_40MHz BW UNII 2C Band PSD CH.142**



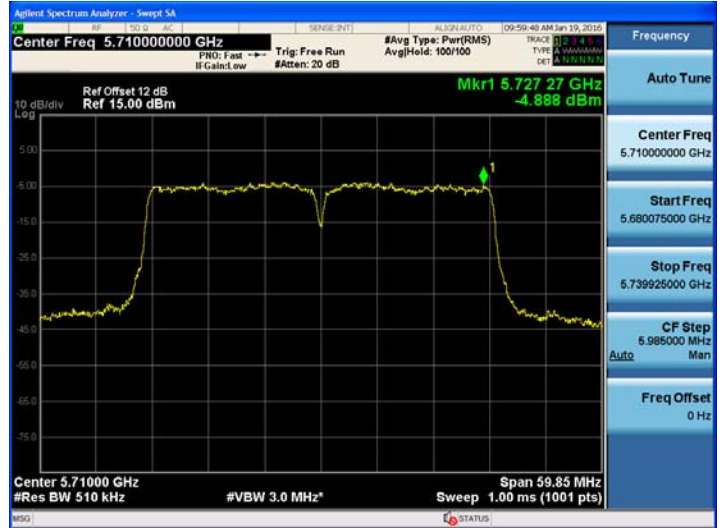
**802.11n\_40MHz BW UNII 3 Band PSD CH.142**



**802.11ac\_40MHz BW UNII 2C Band PSD CH.142**



**802.11ac\_40MHz BW UNII 3 Band PSD CH.142**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.0**

**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 2C Band 5690MHz)**

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
5690	138	802.11ac	-4.259	0.97	-3.29	10.66	Pass

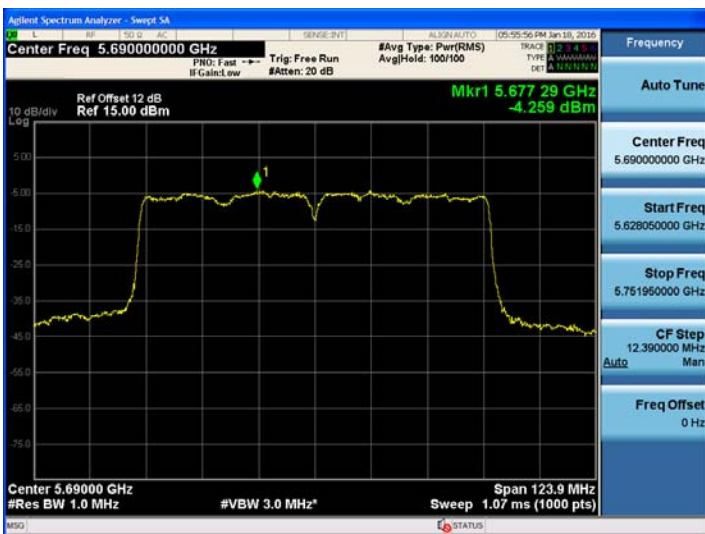
**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 3 Band 5690MHz)**

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
5690	138	802.11ac	-9.133	0.97	-8.16	29.83	Pass

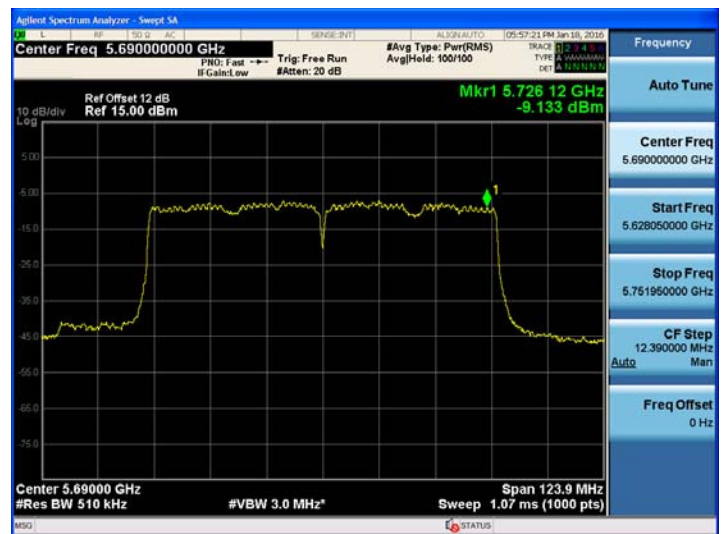
**Straddle channels**

**TEST Plot for 802.11ac \_80MHz BW\_Service Port Ant.0**

**802.11ac\_80MHz BW UNII 2C Band PSD CH.138**



**802.11ac\_80MHz BW UNII 3 Band PSD CH.138**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.1**

**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 2C Band 5690MHz)**

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
5690	138	802.11ac	-5.021	1.25	-3.77	11.00	Pass

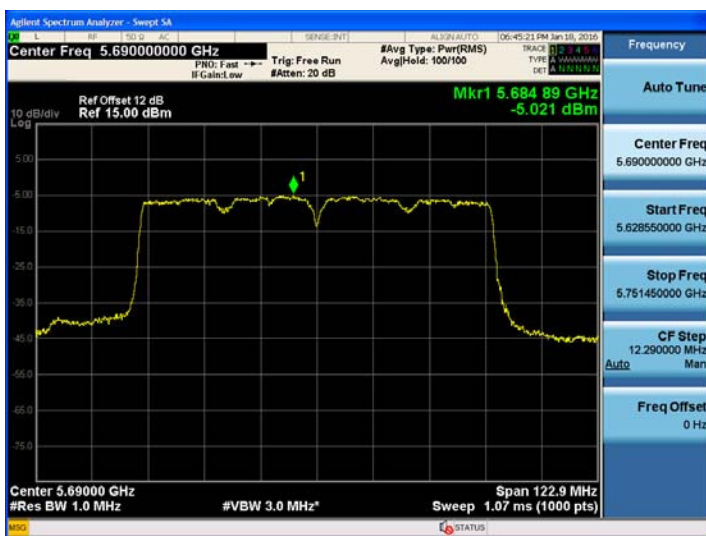
**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 3 Band 5690MHz)**

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
5690	138	802.11ac	-9.207	1.25	-7.96	30.00	Pass

**Straddle channels**

**TEST Plot for 802.11ac \_80MHz BW\_Service Port Ant.1**

**802.11ac\_80MHz BW UNII 2C Band PSD CH.138**



**802.11ac\_80MHz BW UNII 3 Band PSD CH.138**



**Straddle channels**

**TEST RESULTS\_Service Port Ant.2**

**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 2C Band 5690MHz)**

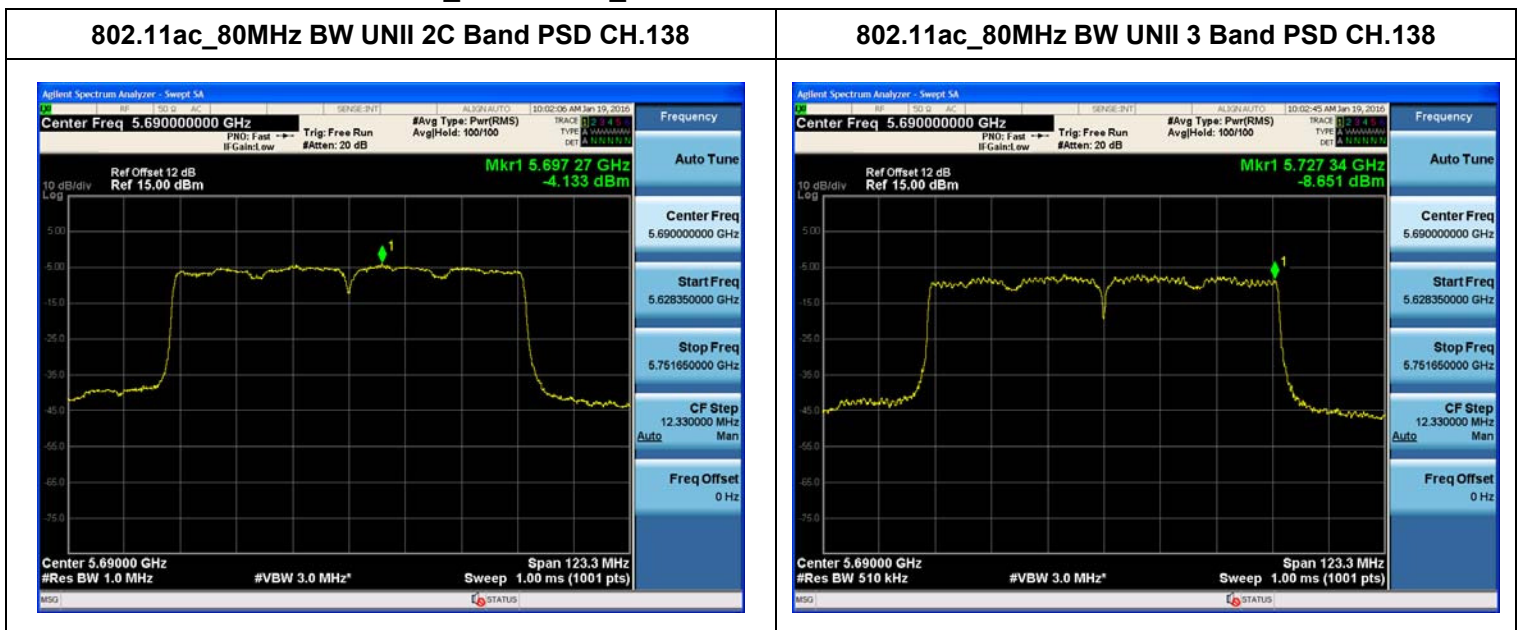
Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5690	138	802.11ac	-4.133	0.97	-3.16	11.00	Pass

**Conducted Power Density Measurements (802.11ac \_80M Mode: UNII 3 Band 5690MHz)**

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
5690	138	802.11ac	-8.651	0.97	-7.68	30.00	Pass

**Straddle channels**

**TEST Plot for 802.11ac \_80MHz BW\_Service Port Ant.2**



### 8.7 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C. The temperature was incremented by 10 °C 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.

#### Monitoring Port

#### 20 MHz BW

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,180,000,000 Hz  
 CHANNEL: 36  
 REFERENCE VOLTAGE: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5179951.38	-48.62
100		-30	5179929.91	-70.09
100		-20	5179935.74	-64.26
100		-10	5179940.85	-59.15
100		0	5179945.21	-54.79
100		+10	5179948.74	-51.26
100		+30	5179955.69	-44.31
100		+40	5179959.97	-40.03
100		+50	5179964.06	-35.94
115	126.50	+20	5179955.35	-44.65
85	93.50	+20	5179958.72	-41.28

#### 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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5259945.32	-54.68
100		-30	5259919.38	-80.62
100		-20	5259924.81	-75.19
100		-10	5259927.66	-72.34
100		0	5259932.05	-67.95
100		+10	5259938.28	-61.72
100		+30	5259948.38	-51.62
100		+40	5259954.18	-45.82
100		+50	5259959.63	-40.37
115		126.50	+20	5259948.36
85	93.50	+20	5259950.49	-49.51

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5499938.71	-61.29
100		-30	5499910.09	-89.91
100		-20	5499915.73	-84.27
100		-10	5499920.74	-79.26
100		0	5499923.84	-76.16
100		+10	5499931.58	-68.42
100		+30	5499941.74	-58.26
100		+40	5499948.06	-51.94
100		+50	5499955.61	-44.39
115		126.50	+20	5499942.76
85	93.50	+20	5499940.39	-59.61

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5744940.39	-59.61
100		-30	5744921.91	-78.09
100		-20	5744925.68	-74.32
100		-10	5744929.94	-70.06
100		0	5744932.48	-67.52
100		+10	5744937.53	-62.47
100		+30	5744944.88	-55.12
100		+40	5744948.33	-51.67
100		+50	5744951.34	-48.66
115		126.50	+20	5744946.51
85	93.50	+20	5744942.06	-57.94

**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.

**Service Port**

**20 MHz BW**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,180,000,000 Hz  
 CHANNEL: 36  
 REFERENCE VOLTAGE: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5179944.88	-55.12
100		-30	5179920.99	-79.01
100		-20	5179927.52	-72.48
100		-10	5179931.06	-68.94
100		0	5179936.11	-63.89
100		+10	5179940.29	-59.71
100		+30	5179951.44	-48.56
100		+40	5179957.33	-42.67
100		+50	5179961.45	-38.55
115		126.50	+20	5179938.76
85	93.50	+20	5179941.41	-58.59

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5259933.35	-66.65
100		-30	5259924.36	-75.64
100		-20	5259928.42	-71.58
100		-10	5259929.49	-70.51
100		0	5259928.51	-71.49
100		+10	5259931.75	-68.25
100		+30	5259939.69	-60.31
100		+40	5259944.92	-55.08
100		+50	5259951.73	-48.27
115		126.50	+20	5259937.66
85	93.50	+20	5259939.86	-60.14

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5499927.34	-72.66
100		-30	5499909.88	-90.12
100		-20	5499915.44	-84.56
100		-10	5499919.91	-80.09
100		0	5499924.33	-75.67
100		+10	5499925.84	-74.16
100		+30	5499933.49	-66.51
100		+40	5499939.81	-60.19
100		+50	5499948.52	-51.48
115		126.50	+20	5499931.61
85	93.50	+20	5499936.86	-63.140

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110.00	+20(Ref)	5744933.11	-66.89
100		-30	5744908.55	-91.45
100		-20	5744917.41	-82.59
100		-10	5744922.81	-77.19
100		0	5744927.19	-72.81
100		+10	5744932.91	-67.09
100		+30	5744941.36	-58.64
100		+40	5744948.69	-51.31
100		+50	5744954.82	-45.18
115	126.50	+20	5744935.85	-64.15
85	93.50	+20	5744937.22	-62.78

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5189941.88	-58.12
100		-30	5189921.49	-78.51
100		-20	5189929.49	-70.51
100		-10	5189932.55	-67.45
100		0	5189938.74	-61.26
100		+10	5189945.05	-54.95
100		+30	5189953.63	-46.37
100		+40	5189959.81	-40.19
100		+50	5189963.88	-36.12
115		126.50	+20	5189939.51
85	93.50	+20	5189935.20	-64.80

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5269935.42	-64.58
100		-30	5269925.81	-74.19
100		-20	5269930.85	-69.15
100		-10	5269931.88	-68.12
100		0	5269938.80	-61.2
100		+10	5269936.91	-63.09
100		+30	5269945.39	-54.61
100		+40	5269948.98	-51.02
100		+50	5269955.33	-44.67
115		126.50	+20	5269938.16
85	93.50	+20	5269936.45	-63.55

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5509921.85	-78.15
100		-30	5509905.38	-94.62
100		-20	5509912.85	-87.15
100		-10	5509919.81	-80.19
100		0	5509920.85	-79.15
100		+10	5509923.85	-76.15
100		+30	5509938.74	-61.26
100		+40	5509941.46	-58.54
100		+50	5509950.39	-49.61
115		126.50	+20	5509926.58
85	93.50	+20	5509929.36	-70.640

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5754955.00	-45.00
100		-30	5754928.71	-71.29
100		-20	5754933.62	-66.38
100		-10	5754938.53	-61.47
100		0	5754945.41	-54.59
100		+10	5754951.84	-48.16
100		+30	5754959.69	-40.31
100		+40	5754964.51	-35.49
100		+50	5754971.03	-28.97
115		126.50	+20	5754956.43
85	93.50	+20	5754959.92	-40.08

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5209945.39	-54.61
100		-30	5209920.49	-79.51
100		-20	5209925.74	-74.26
100		-10	5209933.51	-66.49
100		0	5209938.74	-61.26
100		+10	5209942.84	-57.16
100		+30	5209955.91	-44.09
100		+40	5209959.68	-40.32
100		+50	5209962.38	-37.62
115		126.50	+20	5209943.51
85	93.50	+20	5209940.66	-59.34

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5289934.81	-65.19
100		-30	5289919.74	-80.26
100		-20	5289922.36	-77.64
100		-10	5289928.74	-71.26
100		0	5289929.92	-70.08
100		+10	5289931.84	-68.16
100		+30	5289941.38	-58.62
100		+40	5289945.89	-54.11
100		+50	5289951.38	-48.62
115		126.50	+20	5289936.73
85	93.50	+20	5289939.55	-60.45

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5529923.85	-76.15
100		-30	5529904.36	-95.64
100		-20	5529909.85	-90.15
100		-10	5529915.75	-84.25
100		0	5529920.76	-79.24
100		+10	5529922.38	-77.62
100		+30	5529932.50	-67.5
100		+40	5529938.79	-61.21
100		+50	5529945.74	-54.26
115		126.50	+20	5529927.74
85	93.50	+20	5529926.54	-73.460

**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: 110 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100	110	+20(Ref)	5774916.00	-84.00
100		-30	5774889.74	-110.26
100		-20	5774901.74	-98.26
100		-10	5774908.53	-91.47
100		0	5774909.15	-90.85
100		+10	5774912.36	-87.64
100		+30	5774920.85	-79.15
100		+40	5774929.84	-70.16
100		+50	5774935.92	-64.08
115		126.50	+20	5774921.37
85	93.50	+20	5774923.18	-76.82

**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.

## 8.8 RADIATED MEASUREMENT

### 8.8.1 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.

Especially, 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.

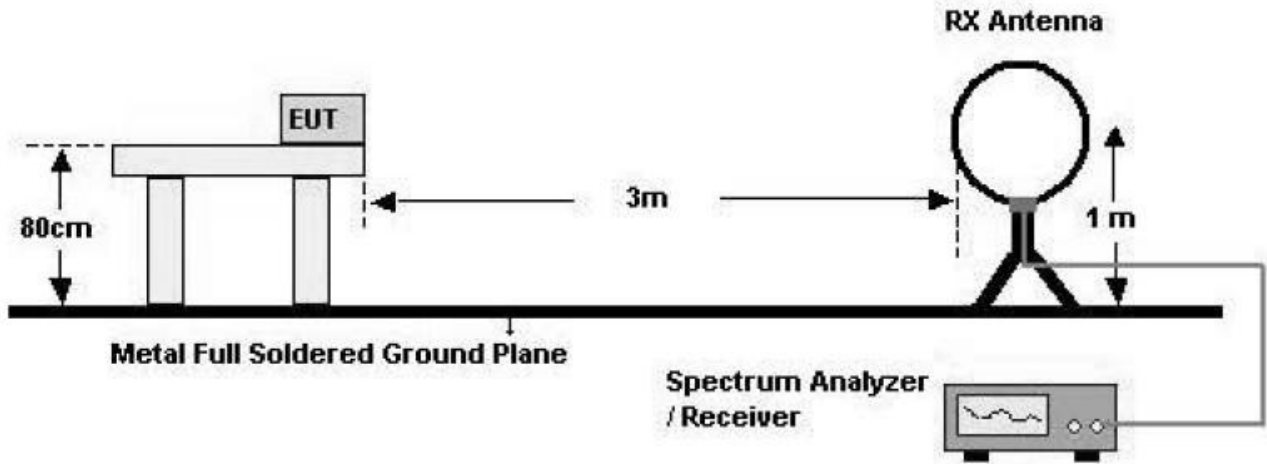
**Operating mode**

Port	Mode	Operating Mode	Operating Ant.
Monitoring	802.11a	MIMO	Ant 0 & 1 & 2
Service	802.11a,n,ac	SISO	Ant 0
			Ant 1
			Ant 2
		MIMO	Ant 0 & 1
			Ant 0 & 1 & 2

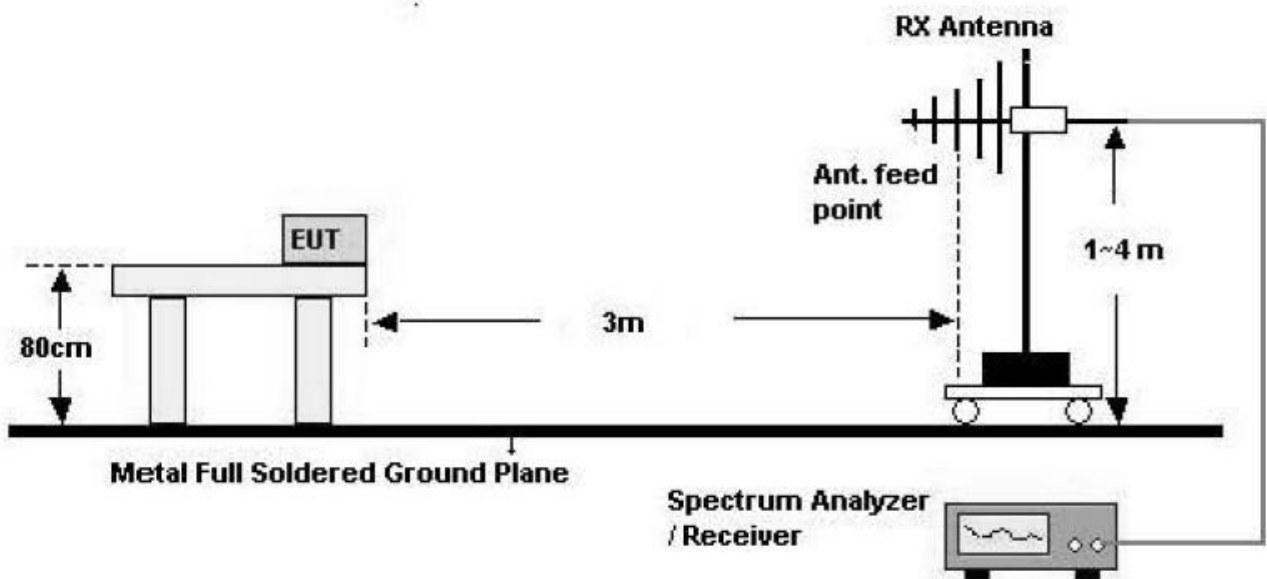
Note: In case of radiation test, we have done all test case. Worst case is Ant 0 & 1 & 2 for monitoring and Ant 0 & 1 & 2 for service. So, we attached the results of only worst case.

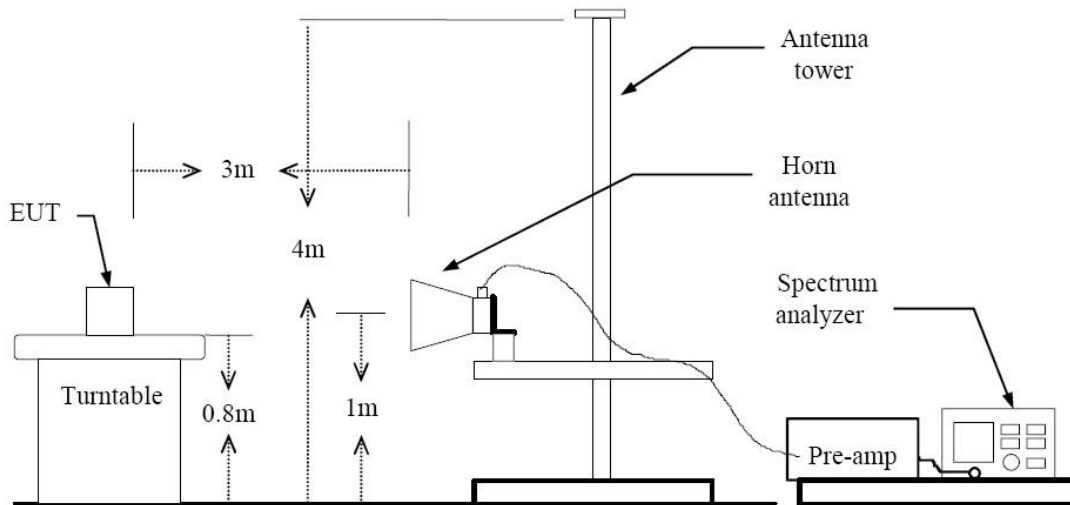
### Test Configuration

#### Below 30 MHz



#### 30 MHz - 1 GHz



**Above 1 GHz****TEST PROCEDURE USED**

ANSI C63.10:2013

Method G)5) in KDB 789033, issued 01/08/2016 (Peak)

Method G)6)d) in KDB 789033, issued 01/08/2016 (Average)

**. Spectrum setting:**

- Peak.

1. RBW = 1 MHz

2. VBW  $\geq$  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  $\geq$  98 percent, set  $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.2.2. If the EUT duty cycle is  $<$  98 percent, set  $VBW \geq 1/T$ , 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 minimum number of traces by a factor of 1/x, where x is the duty cycle.

**Monitoring Port**

Mode	Worst Data rate (Mbps)	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
<b>a</b>	<b>6</b>	<b>2.065</b>	<b>2.17</b>	<b>95.1613</b>	<b>484</b>	<b>1000</b>

**Service Port**

Mode	Worst Data rate (Mbps)	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
<b>a</b>	<b>6</b>	<b>2.064</b>	<b>2.17</b>	<b>95.1152</b>	<b>484</b>	<b>1000</b>
<b>n_20</b>	<b>MCS 0</b>	<b>1.913</b>	<b>2.011</b>	<b>95.1268</b>	<b>523</b>	<b>1000</b>
<b>n_40</b>	<b>MCS 0</b>	<b>0.944</b>	<b>1.042</b>	<b>90.595</b>	<b>1059</b>	<b>3000</b>
<b>ac_20</b>	<b>MCS 0</b>	<b>1.93</b>	<b>1.96</b>	<b>98.4694</b>	<b>518</b>	<b>1000</b>
<b>ac_40</b>	<b>MCS 0</b>	<b>0.954</b>	<b>0.981</b>	<b>97.2477</b>	<b>1048</b>	<b>3000</b>
<b>ac_80</b>	<b>MCS 0</b>	<b>0.46</b>	<b>0.489</b>	<b>94.0695</b>	<b>2173</b>	<b>3000</b>

**TEST RESULTS**

**9 kHz – 30MHz**

**Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ V	dB /m	dB	(H/V)	dB $\mu$ V/m	dB $\mu$ V/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
MHz	dB $\mu$ V	dB /m	dB	(H/V)	dB $\mu$ V/m	dB $\mu$ V/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**

**Monitoring Port (MIMO)**

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	58.56	-2.21	V	56.35	68.20	11.85	PK
15540	58.29	-1.95	V	56.34	73.98	17.64	PK
15540	45.05	-1.95	V	43.10	53.98	10.88	AV
10360	58.93	-2.21	H	56.72	68.20	11.48	PK
15540	58.45	-1.95	H	56.50	73.98	17.48	PK
15540	45.14	-1.95	H	43.19	53.98	10.79	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	58.25	-2.16	V	56.09	68.20	12.11	PK
15600	58.27	-2.51	V	55.76	73.98	18.22	PK
15600	44.93	-2.51	V	42.42	53.98	11.56	AV
10400	58.47	-2.16	H	56.31	68.20	11.89	PK
15600	58.42	-2.51	H	55.91	73.98	18.07	PK
15600	45.11	-2.51	H	42.60	53.98	11.38	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	58.34	-2.59	V	55.75	68.20	12.45	PK
15720	57.97	-1.62	V	56.35	73.98	17.63	PK
15720	44.21	-1.62	V	42.59	53.98	11.39	AV
10480	58.41	-2.59	H	55.82	68.20	12.38	PK
15720	58.64	-1.62	H	57.02	73.98	16.96	PK
15720	44.29	-1.62	H	42.67	53.98	11.31	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 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	58.42	-2.51	V	55.91	68.20	12.29	PK
15780	58.11	-2.14	V	55.97	73.98	18.01	PK
15780	44.89	-2.14	V	42.75	53.98	11.23	AV
10520	58.47	-2.51	H	55.96	68.20	12.24	PK
15780	58.19	-2.14	H	56.05	73.98	17.93	PK
15780	44.98	-2.14	H	42.84	53.98	11.14	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	57.96	-2.45	V	55.51	73.98	18.47	PK
10600	45.19	-2.45	V	42.74	53.98	11.24	AV
15900	58.42	-1.99	V	56.43	73.98	17.55	PK
15900	44.68	-1.99	V	42.69	53.98	11.29	AV
10600	58.81	-2.45	H	56.36	73.98	17.62	PK
10600	45.40	-2.45	H	42.95	53.98	11.03	AV
15900	58.54	-1.99	H	56.55	73.98	17.43	PK
15900	44.95	-1.99	H	42.96	53.98	11.02	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 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	57.68	-2.17	V	55.51	73.98	18.47	PK
10640	44.29	-2.17	V	42.12	53.98	11.86	AV
15960	58.69	-1.69	V	57.00	73.98	16.98	PK
15960	44.54	-1.69	V	42.85	53.98	11.13	AV
10640	58.22	-2.17	H	56.05	73.98	17.93	PK
10640	44.53	-2.17	H	42.36	53.98	11.62	AV
15960	58.81	-1.69	H	57.12	73.98	16.86	PK
15960	44.68	-1.69	H	42.99	53.98	10.99	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 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	58.42	-2.13	V	56.29	73.98	17.69	PK
11000	44.28	-2.13	V	42.15	53.98	11.83	AV
16500	57.70	0.36	V	58.06	68.20	10.14	PK
11000	58.61	-2.13	H	56.48	73.98	17.50	PK
11000	44.54	-2.13	H	42.41	53.98	11.57	AV
16500	57.96	0.36	H	58.32	68.20	9.88	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 802.11a. 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	58.45	-1.75	V	56.70	73.98	17.28	PK
11160	44.56	-1.75	V	42.81	53.98	11.17	AV
16740	58.46	1.34	V	59.80	68.20	8.40	PK
11160	58.63	-1.75	H	56.88	73.98	17.10	PK
11160	44.86	-1.75	H	43.11	53.98	10.87	AV
16740	59.10	1.34	H	60.44	68.20	7.76	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	58.18	-2.57	V	55.61	73.98	18.37	PK
11400	44.76	-2.57	V	42.19	53.98	11.79	AV
17100	59.11	2.74	V	61.85	68.20	6.35	PK
11400	58.45	-2.57	H	55.88	73.98	18.10	PK
11400	44.99	-2.57	H	42.42	53.98	11.56	AV
17100	59.40	2.74	H	62.14	68.20	6.06	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 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	58.24	-1.70	V	56.54	73.98	17.44	PK
11490	44.51	-1.70	V	42.81	53.98	11.17	AV
17235	58.26	2.52	V	60.78	68.20	7.42	PK
11490	58.64	-1.70	H	56.94	73.98	17.04	PK
11490	44.75	-1.70	H	43.05	53.98	10.93	AV
17235	58.87	2.52	H	61.39	68.20	6.81	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	57.86	-2.08	V	55.78	73.98	18.20	PK
11570	44.10	-2.08	V	42.02	53.98	11.96	AV
17355	58.11	2.67	V	60.78	68.20	7.42	PK
11570	58.12	-2.08	H	56.04	73.98	17.94	PK
11570	44.33	-2.08	H	42.25	53.98	11.73	AV
17355	58.19	2.67	H	60.86	68.20	7.34	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

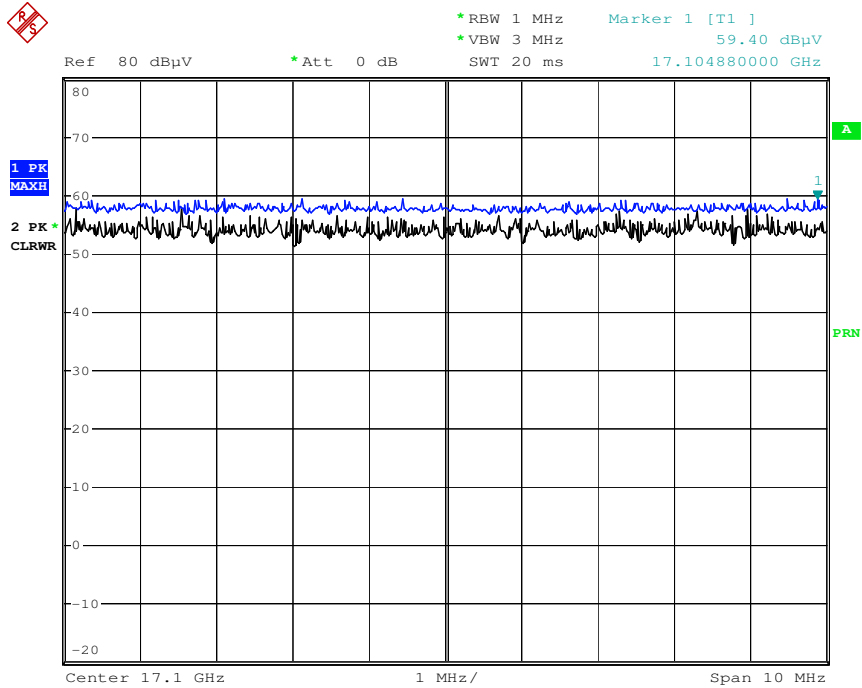
Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	58.91	-2.36	V	56.55	73.98	17.43	PK
11650	44.72	-2.36	V	42.36	53.98	11.62	AV
17475	59.74	3.81	V	63.55	68.20	4.65	PK
11650	59.42	-2.36	H	57.06	73.98	16.92	PK
11650	44.89	-2.36	H	42.53	53.98	11.45	AV
17475	60.35	3.81	H	64.16	68.20	4.04	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

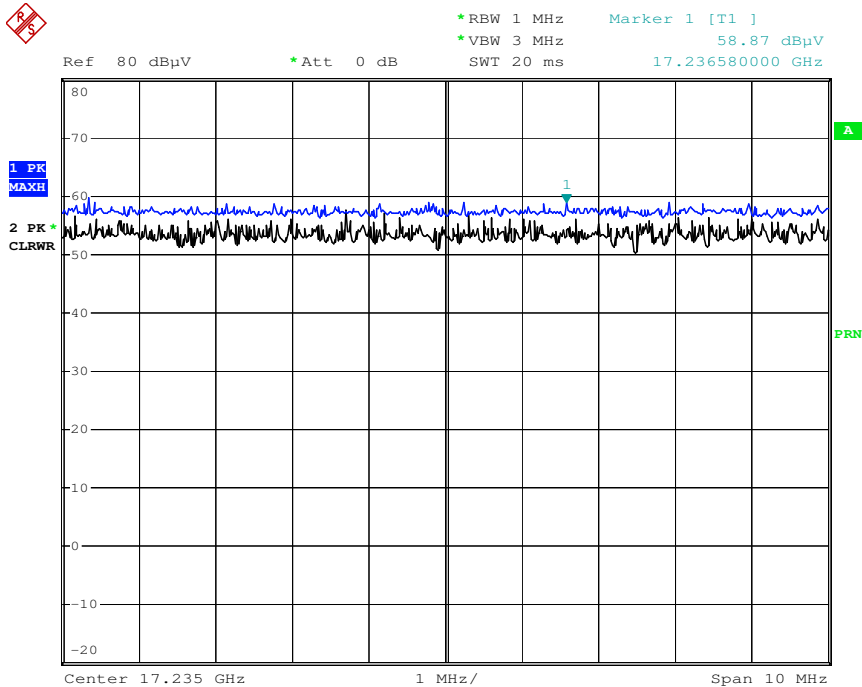
■ **RESULT PLOTS**

**Radiated Spurious Emissions plot – Peak Reading (802.11a\_20M, Ch.140 3rd Harmonic)**



Date: 22.JAN.2016 02:49:37

**Radiated Spurious Emissions plot –Peak Reading (802.11a\_20M,, Ch.149 3rd Harmonic)**



Date: 22.JAN.2016 02:48:45

**Note : Only the worst case plots for Radiated Spurious Emissions.**

**Above 1 GHz**

**Service Port(MIMO)**

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	59.14	-2.21	V	56.93	68.20	11.27	PK
15540	59.73	-1.95	V	57.78	73.98	16.20	PK
15540	45.16	-1.95	V	43.21	53.98	10.77	AV
10360	59.05	-2.21	H	56.84	68.20	11.36	PK
15540	59.12	-1.95	H	57.17	73.98	16.81	PK
15540	45.11	-1.95	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 802.11a. 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	58.95	-2.16	V	56.79	68.20	11.41	PK
15600	59.12	-2.51	V	56.61	73.98	17.37	PK
15600	45.21	-2.51	V	42.70	53.98	11.28	AV
10400	58.72	-2.16	H	56.56	68.20	11.64	PK
15600	59.05	-2.51	H	56.54	73.98	17.44	PK
15600	45.18	-2.51	H	42.67	53.98	11.31	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	59.02	-2.59	V	56.43	68.20	11.77	PK
15720	59.18	-1.62	V	57.56	73.98	16.42	PK
15720	45.48	-1.62	V	43.86	53.98	10.12	AV
10480	58.79	-2.59	H	56.20	68.20	12.00	PK
15720	58.99	-1.62	H	57.37	73.98	16.61	PK
15720	45.26	-1.62	H	43.64	53.98	10.34	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 MCS Index: 0  
 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	59.23	-2.21	V	57.02	68.20	11.18	PK
15540	58.60	-1.95	V	56.65	73.98	17.33	PK
15540	45.10	-1.95	V	43.15	53.98	10.83	AV
10360	59.12	-2.21	H	56.91	68.20	11.29	PK
15540	58.29	-1.95	H	56.34	73.98	17.64	PK
15540	45.03	-1.95	H	43.08	53.98	10.90	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 MCS0 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 MCS Index: 0  
 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	59.16	-2.16	V	57.00	68.20	11.20	PK
15600	58.67	-2.51	V	56.16	73.98	17.82	PK
15600	45.14	-2.51	V	42.63	53.98	11.35	AV
10400	59.05	-2.16	H	56.89	68.20	11.31	PK
15600	58.30	-2.51	H	55.79	73.98	18.19	PK
15600	45.11	-2.51	H	42.60	53.98	11.38	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 MCS0 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 MCS Index: 0  
 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	58.93	-2.59	V	56.34	68.20	11.86	PK
15720	58.78	-1.62	V	57.16	73.98	16.82	PK
15720	45.32	-1.62	V	43.70	53.98	10.28	AV
10480	58.72	-2.59	H	56.13	68.20	12.07	PK
15720	58.69	-1.62	H	57.07	73.98	16.91	PK
15720	45.27	-1.62	H	43.65	53.98	10.33	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 MCS0 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 MCS Index: 0  
 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	58.73	-2.21	V	56.52	68.20	11.68	PK
15540	58.32	-1.95	V	56.37	73.98	17.61	PK
15540	45.23	-1.95	V	43.28	53.98	10.70	AV
10360	58.93	-2.21	H	56.72	68.20	11.48	PK
15540	58.27	-1.95	H	56.32	73.98	17.66	PK
15540	45.19	-1.95	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 MCS0 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 MCS Index: 0  
 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	59.12	-2.16	V	56.96	68.20	11.24	PK
15600	59.01	-2.51	V	56.50	73.98	17.48	PK
15600	45.63	-2.51	V	43.12	53.98	10.86	AV
10400	59.05	-2.16	H	56.89	68.20	11.31	PK
15600	58.93	-2.51	H	56.42	73.98	17.56	PK
15600	45.27	-2.51	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 802.11n\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.96	-2.59	V	56.37	68.20	11.83	PK
15720	58.69	-1.62	V	57.07	73.98	16.91	PK
15720	45.29	-1.62	V	43.67	53.98	10.31	AV
10480	58.76	-2.59	H	56.17	68.20	12.03	PK
15720	58.62	-1.62	H	57.00	73.98	16.98	PK
15720	45.26	-1.62	H	43.64	53.98	10.34	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 MCS0 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: 802.11n\_40 MHz BW  
 Transfer MCS Index: 0  
 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	58.31	-2.51	V	55.80	68.20	12.40	PK
15570	58.12	-2.14	V	55.98	73.98	18.00	PK
15570	45.11	-2.14	V	42.97	53.98	11.01	AV
10380	58.23	-2.51	H	55.72	68.20	12.48	PK
15570	58.05	-2.14	H	55.91	73.98	18.07	PK
15570	45.05	-2.14	H	42.91	53.98	11.07	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 MCS0 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 MCS Index: 0  
 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	59.19	-2.28	V	56.91	68.20	11.29	PK
15690	58.31	-1.92	V	56.39	73.98	17.59	PK
15690	45.28	-1.92	V	43.36	53.98	10.62	AV
10460	58.66	-2.28	H	56.38	68.20	11.82	PK
15690	58.24	-1.92	H	56.32	73.98	17.66	PK
15690	45.20	-1.92	H	43.28	53.98	10.70	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 MCS0 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 MCS Index: 0  
 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	58.95	-2.51	V	56.44	68.20	11.76	PK
15570	58.75	-2.14	V	56.61	73.98	17.37	PK
15570	45.11	-2.14	V	42.97	53.98	11.01	AV
10380	58.76	-2.51	H	56.25	68.20	11.95	PK
15570	58.39	-2.14	H	56.25	73.98	17.73	PK
15570	45.05	-2.14	H	42.91	53.98	11.07	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 MCS0 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 MCS Index: 0  
 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	58.71	-2.28	V	56.43	68.20	11.77	PK
15690	58.42	-1.92	V	56.50	73.98	17.48	PK
15690	45.23	-1.92	V	43.31	53.98	10.67	AV
10460	58.39	-2.28	H	56.11	68.20	12.09	PK
15690	58.29	-1.92	H	56.37	73.98	17.61	PK
15690	45.11	-1.92	H	43.19	53.98	10.79	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 MCS0 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 MCS Index:	0
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	58.49	-2.53	V	55.96	68.20	12.24	PK
15630	59.12	-2.73	V	56.39	73.98	17.59	PK
15630	45.32	-2.73	V	42.59	53.98	11.39	AV
10420	58.29	-2.53	H	55.76	68.20	12.44	PK
15630	58.93	-2.73	H	56.20	73.98	17.78	PK
15630	45.27	-2.73	H	42.54	53.98	11.44	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 MCS0 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 MCS Index: 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	59.05	-2.51	V	56.54	68.20	11.66	PK
15780	59.26	-2.14	V	57.12	73.98	16.86	PK
15780	45.19	-2.14	V	43.05	53.98	10.93	AV
10520	58.89	-2.51	H	56.38	68.20	11.82	PK
15780	59.11	-2.14	H	56.97	73.98	17.01	PK
15780	45.18	-2.14	H	43.04	53.98	10.94	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	58.78	-2.45	V	56.33	73.98	17.65	PK
10600	45.22	-2.45	V	42.77	53.98	11.21	AV
15900	59.90	-1.99	V	57.91	73.98	16.07	PK
15900	46.03	-1.99	V	44.04	53.98	9.94	AV
10600	58.56	-2.45	H	56.11	73.98	17.87	PK
10600	45.19	-2.45	H	42.74	53.98	11.24	AV
15900	59.26	-1.99	H	57.27	73.98	16.71	PK
15900	45.89	-1.99	H	43.90	53.98	10.08	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 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	58.92	-2.17	V	56.75	73.98	17.23	PK
10640	45.19	-2.17	V	43.02	53.98	10.96	AV
15960	59.61	-1.69	V	57.92	73.98	16.06	PK
15960	45.89	-1.69	V	44.20	53.98	9.78	AV
10640	58.76	-2.17	H	56.59	73.98	17.39	PK
10640	45.11	-2.17	H	42.94	53.98	11.04	AV
15960	59.16	-1.69	H	57.47	73.98	16.51	PK
15960	45.73	-1.69	H	44.04	53.98	9.94	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 MCS Index: 0  
 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	60.32	-2.51	V	57.81	68.20	10.39	PK
15780	59.23	-2.14	V	57.09	73.98	16.89	PK
15780	45.29	-2.14	V	43.15	53.98	10.83	AV
10520	59.88	-2.51	H	57.37	68.20	10.83	PK
15780	59.11	-2.14	H	56.97	73.98	17.01	PK
15780	45.11	-2.14	H	42.97	53.98	11.01	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 802.11n\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.93	-2.45	V	56.48	73.98	17.50	PK
10600	44.59	-2.45	V	42.14	53.98	11.84	AV
15900	59.10	-1.99	V	57.11	73.98	16.87	PK
15900	45.19	-1.99	V	43.20	53.98	10.78	AV
10600	59.32	-2.45	H	56.87	73.98	17.11	PK
10600	44.89	-2.45	H	42.44	53.98	11.54	AV
15900	58.97	-1.99	H	56.98	73.98	17.00	PK
15900	45.29	-1.99	H	43.30	53.98	10.68	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\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.69	-2.17	V	56.52	73.98	17.46	PK
10640	44.93	-2.17	V	42.76	53.98	11.22	AV
15960	59.05	-1.69	V	57.36	73.98	16.62	PK
15960	45.11	-1.69	V	43.42	53.98	10.56	AV
10640	58.18	-2.17	H	56.01	73.98	17.97	PK
10640	44.80	-2.17	H	42.63	53.98	11.35	AV
15960	59.19	-1.69	H	57.50	73.98	16.48	PK
15960	45.24	-1.69	H	43.55	53.98	10.43	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 802.11n\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.29	-2.51	V	55.78	68.20	12.42	PK
15780	58.63	-2.14	V	56.49	73.98	17.49	PK
15780	45.24	-2.14	V	43.10	53.98	10.88	AV
10520	58.16	-2.51	H	55.65	68.20	12.55	PK
15780	58.58	-2.14	H	56.44	73.98	17.54	PK
15780	45.21	-2.14	H	43.07	53.98	10.91	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 MCS0 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 MCS Index: 0  
 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	58.86	-2.45	V	56.41	73.98	17.57	PK
10600	45.15	-2.45	V	42.70	53.98	11.28	AV
15900	58.87	-1.99	V	56.88	73.98	17.10	PK
15900	45.10	-1.99	V	43.11	53.98	10.87	AV
10600	58.60	-2.45	H	56.15	73.98	17.83	PK
10600	45.02	-2.45	H	42.57	53.98	11.41	AV
15900	58.72	-1.99	H	56.73	73.98	17.25	PK
15900	44.95	-1.99	H	42.96	53.98	11.02	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 MCS0 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 MCS Index: 0  
 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	58.93	-2.17	V	56.76	73.98	17.22	PK
10640	45.19	-2.17	V	43.02	53.98	10.96	AV
15960	59.46	-1.69	V	57.77	73.98	16.21	PK
15960	45.11	-1.69	V	43.42	53.98	10.56	AV
10640	58.76	-2.17	H	56.59	73.98	17.39	PK
10640	45.02	-2.17	H	42.85	53.98	11.13	AV
15960	58.68	-1.69	H	56.99	73.98	16.99	PK
15960	45.07	-1.69	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 802.11ac\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	59.23	-2.53	V	56.70	68.20	11.50	PK
15810	58.93	-2.09	V	56.84	73.98	17.14	PK
15810	45.62	-2.09	V	43.53	53.98	10.45	AV
10540	59.16	-2.53	H	56.63	68.20	11.57	PK
15810	58.76	-2.09	H	56.67	73.98	17.31	PK
15810	45.40	-2.09	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\_40 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.29	-2.19	V	56.10	73.98	17.88	PK
10620	44.95	-2.19	V	42.76	53.98	11.22	AV
15930	58.73	-1.80	V	56.93	73.98	17.05	PK
15930	45.39	-1.80	V	43.59	53.98	10.39	AV
10620	58.42	-2.19	H	56.23	73.98	17.75	PK
10620	44.89	-2.19	H	42.70	53.98	11.28	AV
15930	58.48	-1.80	H	56.68	73.98	17.30	PK
15930	45.29	-1.80	H	43.49	53.98	10.49	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 MCS0 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 MCS Index: 0  
 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	58.79	-2.53	V	56.26	68.20	11.94	PK
15810	58.68	-2.09	V	56.59	73.98	17.39	PK
15810	45.28	-2.09	V	43.19	53.98	10.79	AV
10540	58.65	-2.53	H	56.12	68.20	12.08	PK
15810	58.61	-2.09	H	56.52	73.98	17.46	PK
15810	45.19	-2.09	H	43.10	53.98	10.88	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 MCS0 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 MCS Index: 0  
 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	58.73	-2.19	V	56.54	73.98	17.44	PK
10620	45.01	-2.19	V	42.82	53.98	11.16	AV
15930	59.12	-1.80	V	57.32	73.98	16.66	PK
15930	45.12	-1.80	V	43.32	53.98	10.66	AV
10620	58.86	-2.19	H	56.67	73.98	17.31	PK
10620	44.75	-2.19	H	42.56	53.98	11.42	AV
15930	58.99	-1.80	H	57.19	73.98	16.79	PK
15930	45.05	-1.80	H	43.25	53.98	10.73	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 MCS0 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 MCS Index: 0  
 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	58.63	-2.58	V	56.05	68.20	12.15	PK
15870	58.97	-2.85	V	56.12	73.98	17.86	PK
15870	45.12	-2.85	V	42.27	53.98	11.71	AV
10580	58.29	-2.58	H	55.71	68.20	12.49	PK
15870	58.78	-2.85	H	55.93	73.98	18.05	PK
15870	45.09	-2.85	H	42.24	53.98	11.74	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 802.11ac\_80 MHz BW. Worst case is MCS0 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	58.95	-2.13	V	56.82	73.98	17.16	PK
11000	45.42	-2.13	V	43.29	53.98	10.69	AV
16500	58.92	0.36	V	59.28	68.20	8.92	PK
11000	58.77	-2.13	H	56.64	73.98	17.34	PK
11000	45.29	-2.13	H	43.16	53.98	10.82	AV
16500	58.73	0.36	H	59.09	68.20	9.11	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	60.66	-1.75	V	58.91	73.98	15.07	PK
11160	45.85	-1.75	V	44.10	53.98	9.88	AV
16740	59.31	1.34	V	60.65	68.20	7.55	PK
11160	59.83	-1.75	H	58.08	73.98	15.90	PK
11160	45.63	-1.75	H	43.88	53.98	10.10	AV
16740	59.12	1.34	H	60.46	68.20	7.74	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 5720 MHz  
 Channel No. 144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	59.69	-2.57	V	57.12	73.98	16.86	PK
11440	45.66	-2.57	V	43.09	53.98	10.89	AV
17160	57.78	2.74	V	60.52	68.20	7.68	PK
11440	59.12	-2.57	H	56.55	73.98	17.43	PK
11440	45.59	-2.57	H	43.02	53.98	10.96	AV
17160	57.76	2.74	H	60.50	68.20	7.70	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 MCS Index: 0  
 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	58.69	-2.13	V	56.56	73.98	17.42	PK
11000	45.19	-2.13	V	43.06	53.98	10.92	AV
16500	58.79	0.36	V	59.15	68.20	9.05	PK
11000	58.47	-2.13	H	56.34	73.98	17.64	PK
11000	45.11	-2.13	H	42.98	53.98	11.00	AV
16500	58.63	0.36	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 802.11n\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	59.97	-1.75	V	58.22	73.98	15.76	PK
11160	46.14	-1.75	V	44.39	53.98	9.59	AV
16740	59.15	1.34	V	60.49	68.20	7.71	PK
11160	59.85	-1.75	H	58.10	73.98	15.88	PK
11160	46.05	-1.75	H	44.30	53.98	9.68	AV
16740	59.04	1.34	H	60.38	68.20	7.82	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 MCS0 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 MCS Index: 0  
 Operating Frequency 5720 MHz  
 Channel No. 144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	58.46	-2.57	V	55.89	73.98	18.09	PK
11440	45.23	-2.57	V	42.66	53.98	11.32	AV
17160	57.89	2.74	V	60.63	68.20	7.57	PK
11440	58.42	-2.57	H	55.85	73.98	18.13	PK
11440	45.12	-2.57	H	42.55	53.98	11.43	AV
17160	57.75	2.74	H	60.49	68.20	7.71	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 MCS0 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 MCS Index: 0  
 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	59.10	-2.13	V	56.97	73.98	17.01	PK
11000	45.44	-2.13	V	43.31	53.98	10.67	AV
16500	58.73	0.36	V	59.09	68.20	9.11	PK
11000	58.97	-2.13	H	56.84	73.98	17.14	PK
11000	45.29	-2.13	H	43.16	53.98	10.82	AV
16500	58.62	0.36	H	58.98	68.20	9.22	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 802.11ac\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	59.30	-1.75	V	57.55	73.98	16.43	PK
11160	45.56	-1.75	V	43.81	53.98	10.17	AV
16740	58.95	1.34	V	60.29	68.20	7.91	PK
11160	59.21	-1.75	H	57.46	73.98	16.52	PK
11160	45.48	-1.75	H	43.73	53.98	10.25	AV
16740	58.82	1.34	H	60.16	68.20	8.04	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 MCS0 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 MCS Index: 0  
 Operating Frequency 5720 MHz  
 Channel No. 144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	59.63	-2.57	V	57.06	73.98	16.92	PK
11440	45.97	-2.57	V	43.40	53.98	10.58	AV
17160	59.26	2.74	V	62.00	68.20	6.20	PK
11440	59.41	-2.57	H	56.84	73.98	17.14	PK
11440	45.44	-2.57	H	42.87	53.98	11.11	AV
17160	59.05	2.74	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 802.11ac\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.96	-2.07	V	56.89	73.98	17.09	PK
11020	44.29	-2.07	V	42.22	53.98	11.76	AV
16530	59.10	0.77	V	59.87	68.20	8.33	PK
11020	58.71	-2.07	H	56.64	73.98	17.34	PK
11020	44.24	-2.07	H	42.17	53.98	11.81	AV
16530	58.85	0.77	H	59.62	68.20	8.58	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 802.11n\_40 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 Operating Frequency 5550 MHz  
 Channel No. 110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	58.79	-2.26	V	56.53	73.98	17.45	PK
11100	45.02	-2.26	V	42.76	53.98	11.22	AV
16650	58.72	1.90	V	60.62	68.20	7.58	PK
11100	58.39	-2.26	H	56.13	73.98	17.85	PK
11100	44.68	-2.26	H	42.42	53.98	11.56	AV
16650	58.40	1.90	H	60.30	68.20	7.90	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 802.11n\_40 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	60.39	-1.94	V	58.45	73.98	15.53	PK
11420	46.28	-1.94	V	44.34	53.98	9.64	AV
17130	59.35	2.66	V	62.01	68.20	6.19	PK
11420	59.69	-1.94	H	57.75	73.98	16.23	PK
11420	46.18	-1.94	H	44.24	53.98	9.74	AV
17130	59.05	2.66	H	61.71	68.20	6.49	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 MCS0 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 MCS Index: 0  
 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	58.72	-2.07	V	56.65	73.98	17.33	PK
11020	45.10	-2.07	V	43.03	53.98	10.95	AV
16530	58.77	0.77	V	59.54	68.20	8.66	PK
11020	58.44	-2.07	H	56.37	73.98	17.61	PK
11020	45.02	-2.07	H	42.95	53.98	11.03	AV
16530	58.69	0.77	H	59.46	68.20	8.74	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 MCS0 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 MCS Index: 0  
 Operating Frequency 5550 MHz  
 Channel No. 110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	58.62	-2.26	V	56.36	73.98	17.62	PK
11100	45.09	-2.26	V	42.83	53.98	11.15	AV
16650	58.64	1.90	V	60.54	68.20	7.66	PK
11100	58.58	-2.26	H	56.32	73.98	17.66	PK
11100	45.03	-2.26	H	42.77	53.98	11.21	AV
16650	58.43	1.90	H	60.33	68.20	7.87	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 MCS0 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 MCS Index: 0  
 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	60.05	-1.94	V	58.11	73.98	15.87	PK
11420	46.11	-1.94	V	44.17	53.98	9.81	AV
17130	59.47	2.66	V	62.13	68.20	6.07	PK
11420	59.75	-1.94	H	57.81	73.98	16.17	PK
11420	46.02	-1.94	H	44.08	53.98	9.90	AV
17130	58.99	2.66	H	61.65	68.20	6.55	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 MCS0 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 MCS Index: 0  
 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	58.91	-1.75	V	57.16	73.98	16.82	PK
11060	45.20	-1.75	V	43.45	53.98	10.53	AV
16590	60.37	1.29	V	61.66	68.20	6.54	PK
11060	58.76	-1.75	H	57.01	73.98	16.97	PK
11060	45.02	-1.75	H	43.27	53.98	10.71	AV
16590	59.92	1.29	H	61.21	68.20	6.99	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 MCS0 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 MCS Index: 0  
 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	59.68	-1.73	V	57.95	73.98	16.03	PK
11380	45.52	-1.73	V	43.79	53.98	10.19	AV
17070	59.37	3.20	V	62.57	68.20	5.63	PK
11380	59.46	-1.73	H	57.73	73.98	16.25	PK
11380	45.43	-1.73	H	43.70	53.98	10.28	AV
17070	59.21	3.20	H	62.41	68.20	5.79	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 MCS0 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	58.24	-1.70	V	56.54	73.98	17.44	PK
11490	44.41	-1.70	V	42.71	53.98	11.27	AV
17235	58.73	2.52	V	61.25	68.20	6.95	PK
11490	58.19	-1.70	H	56.49	73.98	17.49	PK
11490	44.29	-1.70	H	42.59	53.98	11.39	AV
17235	58.49	2.52	H	61.01	68.20	7.19	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 802.11a. 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	58.31	-2.08	V	56.23	73.98	17.75	PK
11570	44.38	-2.08	V	42.30	53.98	11.68	AV
17355	58.19	2.67	V	60.86	68.20	7.34	PK
11570	58.19	-2.08	H	56.11	73.98	17.87	PK
11570	44.21	-2.08	H	42.13	53.98	11.85	AV
17355	58.13	2.67	H	60.80	68.20	7.40	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	58.57	-2.36	V	56.21	73.98	17.77	PK
11650	44.58	-2.36	V	42.22	53.98	11.76	AV
17475	59.24	3.81	V	63.05	68.20	5.15	PK
11650	58.19	-2.36	H	55.83	73.98	18.15	PK
11650	44.29	-2.36	H	41.93	53.98	12.05	AV
17475	58.78	3.81	H	62.59	68.20	5.61	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 n\_20 MHz BW  
 Transfer MCS Index: 0  
 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	58.14	-1.70	V	56.44	73.98	17.54	PK
11490	44.56	-1.70	V	42.86	53.98	11.12	AV
17235	59.29	2.52	V	61.81	68.20	6.39	PK
11490	58.03	-1.70	H	56.33	73.98	17.65	PK
11490	44.36	-1.70	H	42.66	53.98	11.32	AV
17235	58.93	2.52	H	61.45	68.20	6.75	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 MCS0 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 MCS Index: 0  
 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	58.29	-2.08	V	56.21	73.98	17.77	PK
11570	44.42	-2.08	V	42.34	53.98	11.64	AV
17355	58.55	2.67	V	61.22	68.20	6.98	PK
11570	58.16	-2.08	H	56.08	73.98	17.90	PK
11570	44.22	-2.08	H	42.14	53.98	11.84	AV
17355	58.42	2.67	H	61.09	68.20	7.11	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 MCS0 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 MCS Index: 0  
 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	58.99	-2.36	V	56.63	73.98	17.35	PK
11650	44.79	-2.36	V	42.43	53.98	11.55	AV
17475	59.37	3.81	V	63.18	68.20	5.02	PK
11650	58.73	-2.36	H	56.37	73.98	17.61	PK
11650	44.45	-2.36	H	42.09	53.98	11.89	AV
17475	59.16	3.81	H	62.97	68.20	5.23	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 802.11n\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.42	-1.70	V	56.72	73.98	17.26	PK
11490	44.65	-1.70	V	42.95	53.98	11.03	AV
17235	58.48	2.52	V	61.00	68.20	7.20	PK
11490	58.21	-1.70	H	56.51	73.98	17.47	PK
11490	44.52	-1.70	H	42.82	53.98	11.16	AV
17235	58.35	2.52	H	60.87	68.20	7.33	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 802.11ac\_20 MHz BW. Worst case is MCS0 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 MCS Index: 0

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	58.66	-2.08	V	56.58	73.98	17.40	PK
11570	44.29	-2.08	V	42.21	53.98	11.77	AV
17355	58.12	2.67	V	60.79	68.20	7.41	PK
11570	58.46	-2.08	H	56.38	73.98	17.60	PK
11570	44.19	-2.08	H	42.11	53.98	11.87	AV
17355	58.10	2.67	H	60.77	68.20	7.43	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 MCS0 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 MCS Index: 0  
 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	58.68	-2.36	V	56.32	73.98	17.66	PK
11650	44.82	-2.36	V	42.46	53.98	11.52	AV
17475	59.26	3.81	V	63.07	68.20	5.13	PK
11650	58.49	-2.36	H	56.13	73.98	17.85	PK
11650	44.71	-2.36	H	42.35	53.98	11.63	AV
17475	59.10	3.81	H	62.91	68.20	5.29	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 MCS0 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 MCS Index: 0  
 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	58.43	-1.79	V	56.64	73.98	17.34	PK
11510	44.29	-1.79	V	42.50	53.98	11.48	AV
17265	58.61	3.16	V	61.77	68.20	6.43	PK
11510	58.34	-1.79	H	56.55	73.98	17.43	PK
11510	44.16	-1.79	H	42.37	53.98	11.61	AV
17265	58.53	3.16	H	61.69	68.20	6.51	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 MCS0 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 MCS Index: 0  
 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	58.42	-2.20	V	56.22	73.98	17.76	PK
11590	44.39	-2.20	V	42.19	53.98	11.79	AV
17385	58.52	3.26	V	61.78	68.20	6.42	PK
11590	58.40	-2.20	H	56.20	73.98	17.78	PK
11590	44.21	-2.20	H	42.01	53.98	11.97	AV
17385	58.46	3.26	H	61.72	68.20	6.48	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 MCS0 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 MCS Index: 0  
 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	57.75	-1.79	V	55.96	73.98	18.02	PK
11510	44.88	-1.79	V	43.09	53.98	10.89	AV
17265	58.93	3.16	V	62.09	68.20	6.11	PK
11510	57.69	-1.79	H	55.90	73.98	18.08	PK
11510	44.75	-1.79	H	42.96	53.98	11.02	AV
17265	58.78	3.16	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 802.11ac\_40 MHz BW. Worst case is MCS0 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 MCS Index: 0  
 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	58.69	-2.20	V	56.49	73.98	17.49	PK
11590	44.95	-2.20	V	42.75	53.98	11.23	AV
17385	58.15	3.26	V	61.41	68.20	6.79	PK
11590	58.58	-2.20	H	56.38	73.98	17.60	PK
11590	44.75	-2.20	H	42.55	53.98	11.43	AV
17385	58.12	3.26	H	61.38	68.20	6.82	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 MCS0 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 MCS Index: 0  
 Operating Frequency 5775 MHz  
 Channel No. 155 Ch

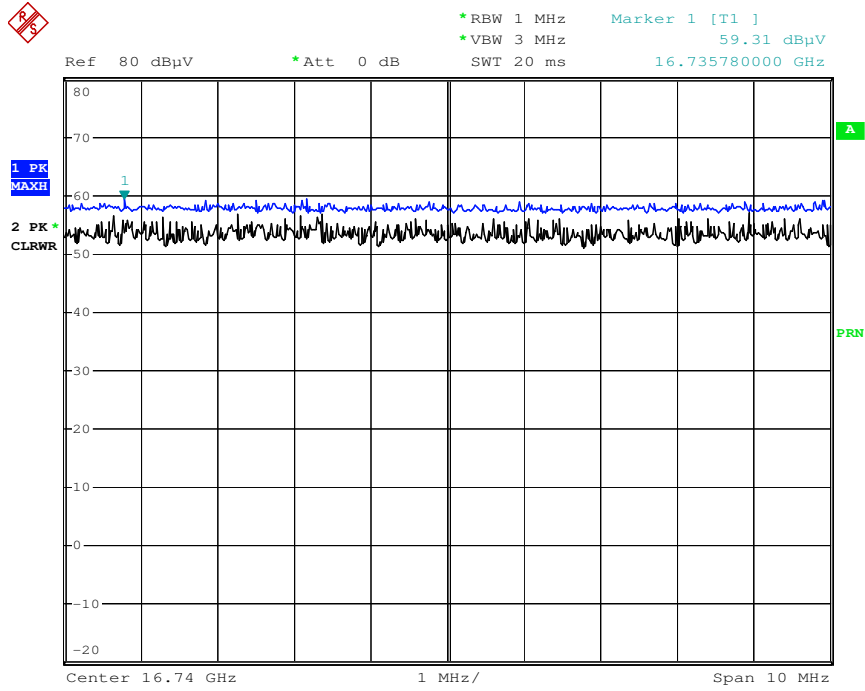
Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	58.08	-1.78	V	56.30	73.98	17.68	PK
11550	44.07	-1.78	V	42.29	53.98	11.69	AV
17325	58.21	2.95	V	61.16	68.20	7.04	PK
11550	57.68	-1.78	H	55.90	73.98	18.08	PK
11550	44.01	-1.78	H	42.23	53.98	11.75	AV
17325	58.10	2.95	H	61.05	68.20	7.15	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 MCS0 in 802.11ac\_80 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

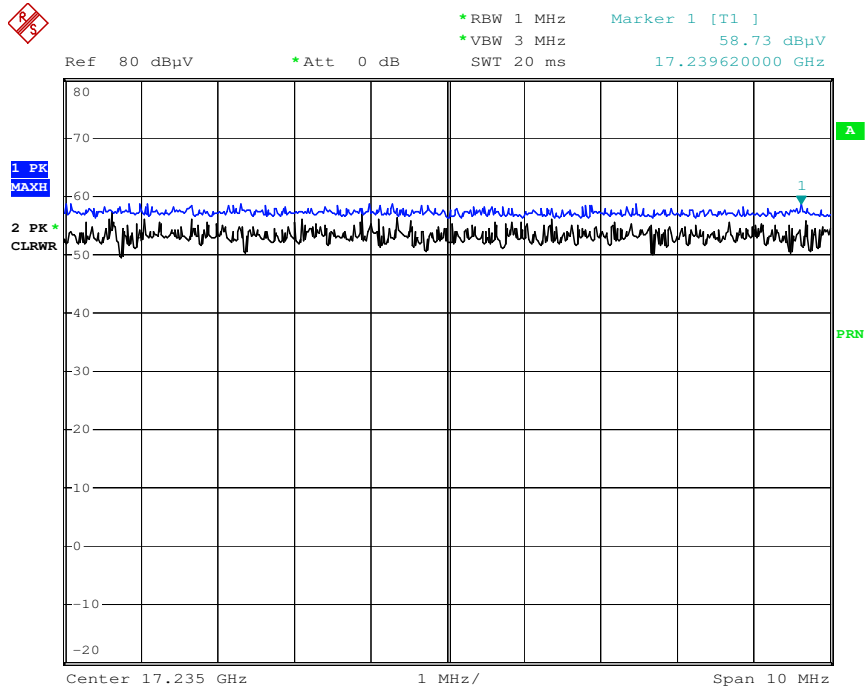
▣ RESULT PLOTS\_Service Port

**Radiated Spurious Emissions plot –Peak Reading (802.11a\_20M, Ch.116 3rd Harmonic)**



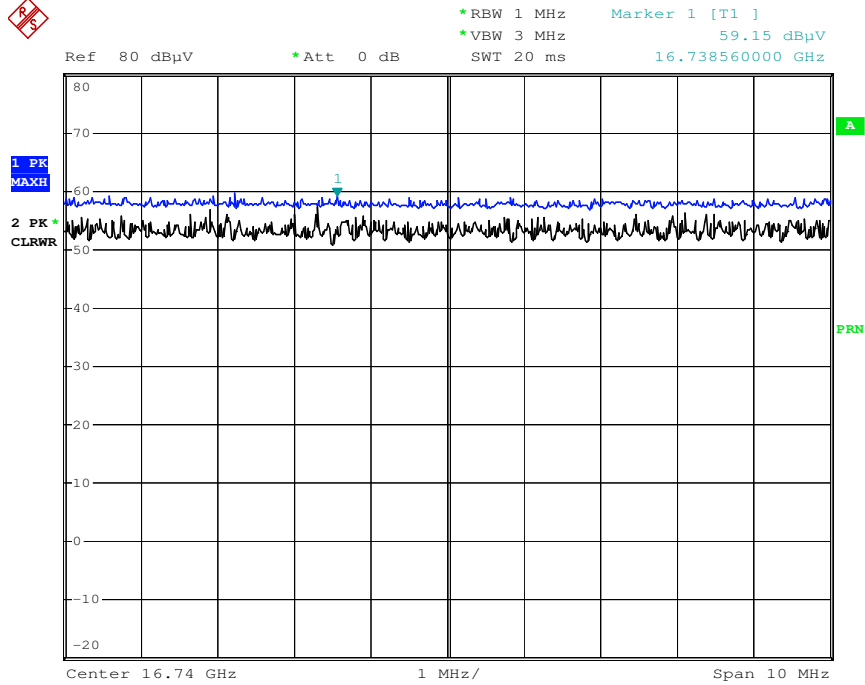
Date: 19.JAN.2016 06:14:51

**Radiated Spurious Emissions plot –Peak Reading (802.11a\_20M, Ch.149 3rd Harmonic)**



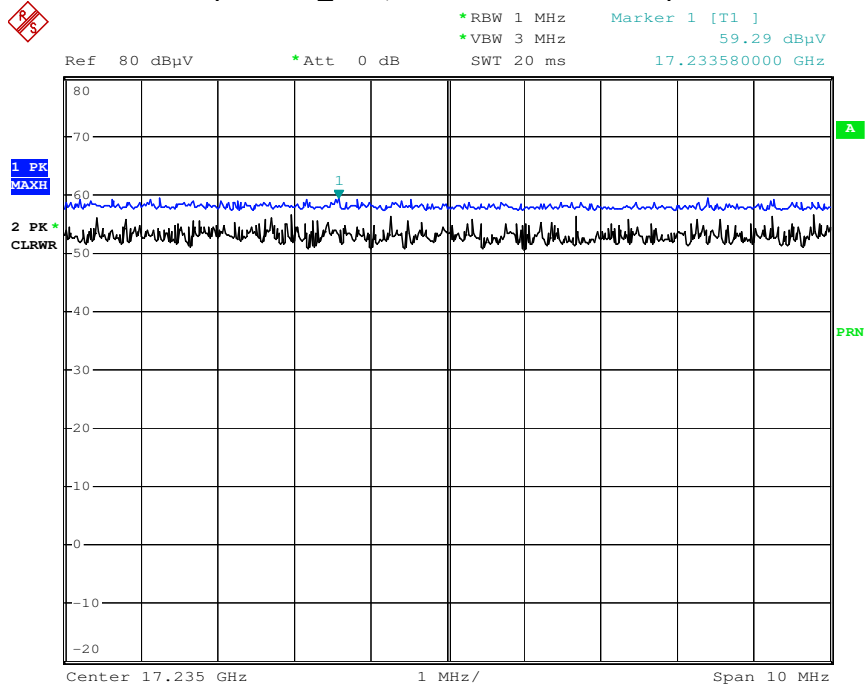
Date: 18.JAN.2016 10:58:42

**Radiated Spurious Emissions plot – Peak Reading  
(802.11n\_20M, Ch.116 3rd Harmonic)**



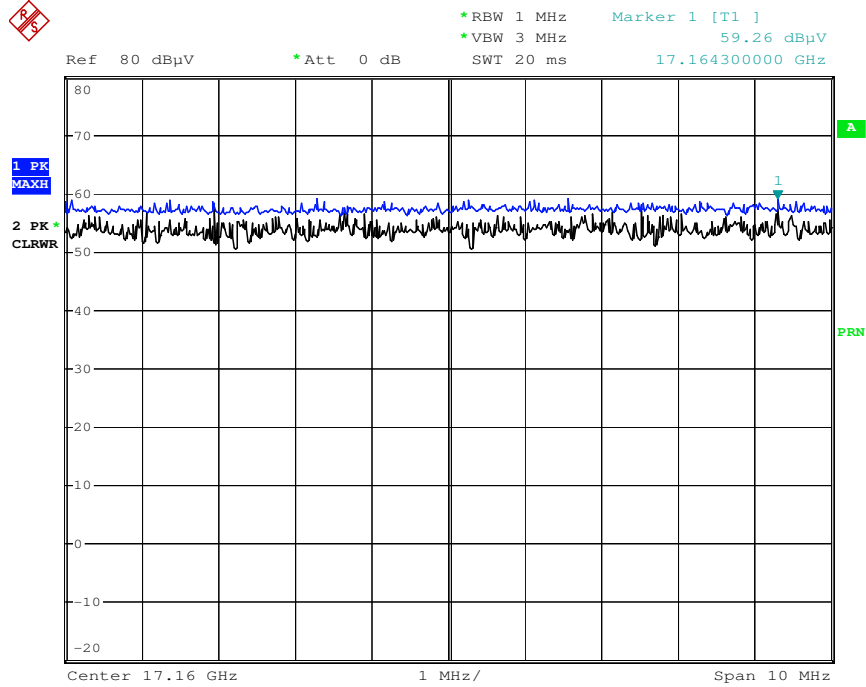
Date: 19.JAN.2016 06:19:16

**Radiated Spurious Emissions plot – Peak Reading  
(802.11n\_20M, Ch.149 3rd Harmonic)**



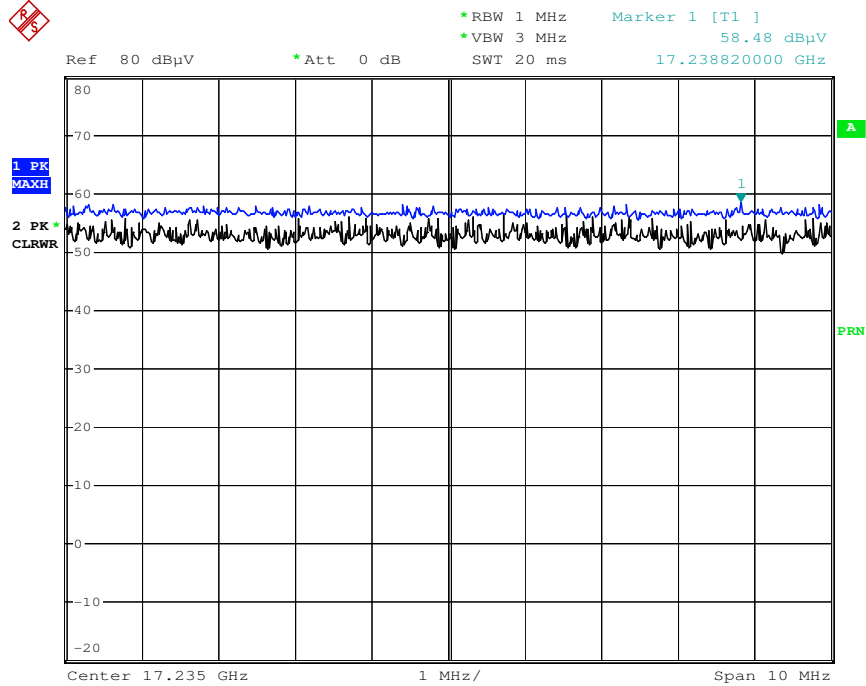
Date: 18.JAN.2016 11:05:27

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_20M, Ch.144 3rd Harmonic)**



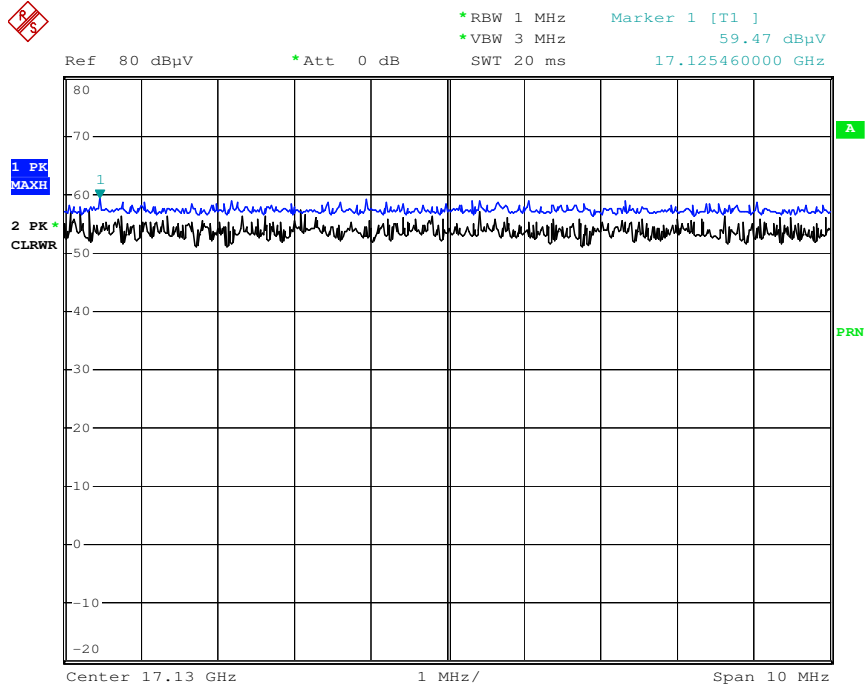
Date: 19.JAN.2016 06:40:21

**Radiated Spurious Emissions plot – Peak Reading (802.11ac\_20M, Ch.149 3rd Harmonic)**



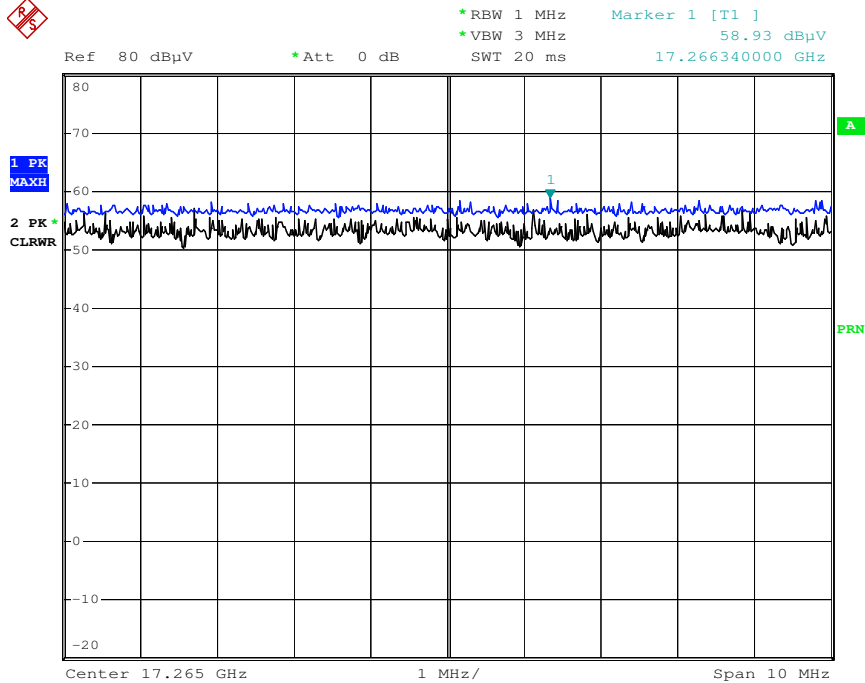
Date: 18.JAN.2016 11:40:55

**Radiated Spurious Emissions plot – Peak Reading (802.11ac\_40M, Ch.142 3rd Harmonic)**



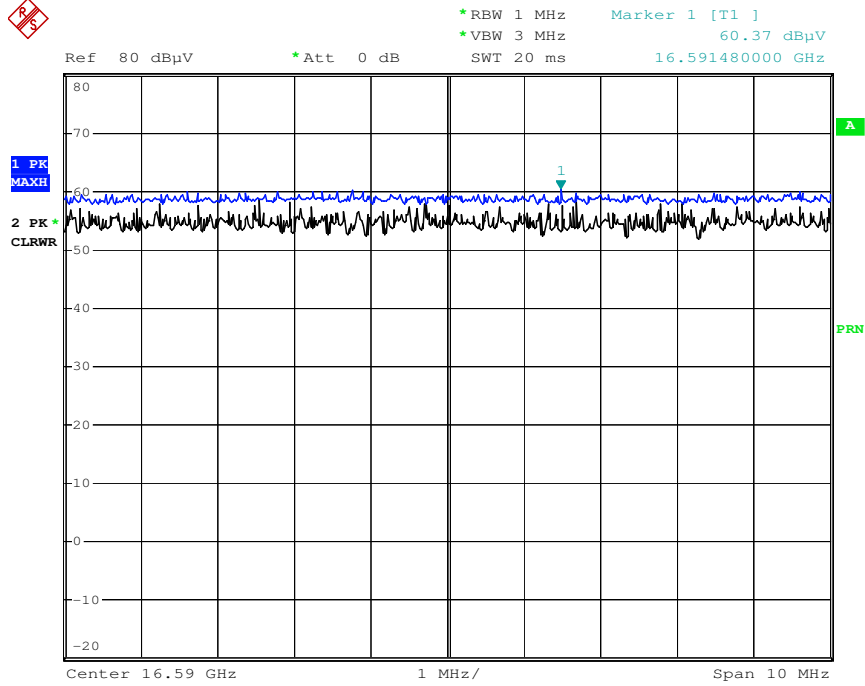
Date: 19.JAN.2016 06:48:21

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_40M, Ch.151 3rd Harmonic)**



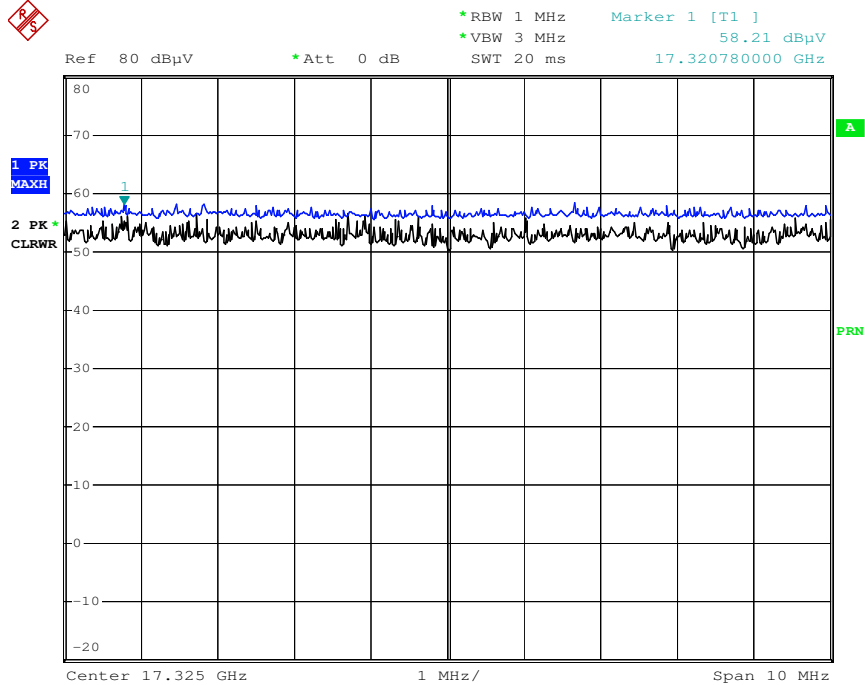
Date: 19.JAN.2016 09:00:46

**Radiated Spurious Emissions plot – Peak Reading (802.11ac\_80M, Ch.106 3rd Harmonic)**



Date: 19.JAN.2016 06:54:22

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_80M, Ch.155 3rd Harmonic)**



Date: 18.JAN.2016 11:51:26

**Note : Only the worst case plots for Radiated Spurious Emissions.**

### 8.8.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

**Test Requirements and limit, §15.407(b) §15.205, §15.209**

**Monitoring port (MIMO)**

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	55.25	3.13	H	58.38	73.98	15.60	PK
5150	43.46	3.13	H	46.59	53.98	7.39	AV
5150	54.92	3.13	V	58.05	73.98	15.93	PK
5150	43.12	3.13	V	46.25	53.98	7.73	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	56.57	3.24	H	59.81	73.98	14.17	PK
5350	44.89	3.24	H	48.13	53.98	5.85	AV
5350	57.38	3.24	V	60.62	73.98	13.36	PK
5350	45.22	3.24	V	48.46	53.98	5.52	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	55.76	3.59	H	59.35	73.98	14.63	PK
5460	44.28	3.59	H	47.87	53.98	6.11	AV
5470	53.68	3.56	H	57.24	68.20	10.96	PK
5460	56.56	3.59	V	60.15	73.98	13.83	PK
5460	44.58	3.59	V	48.17	53.98	5.81	AV
5470	53.97	3.56	V	57.53	68.20	10.67	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	54.44	4.08	H	58.52	68.20	9.68	PK
5725	54.29	4.08	V	58.37	68.20	9.83	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5745 MHz  
 Channel No. 149 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	64.25	4.08	H	68.33	78.20	9.87	PK
5725	64.18	4.08	V	68.26	78.20	9.94	PK
5715	54.36	3.99	H	58.35	68.20	9.86	PK
5715	54.22	3.99	V	58.21	68.20	10.00	PK

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

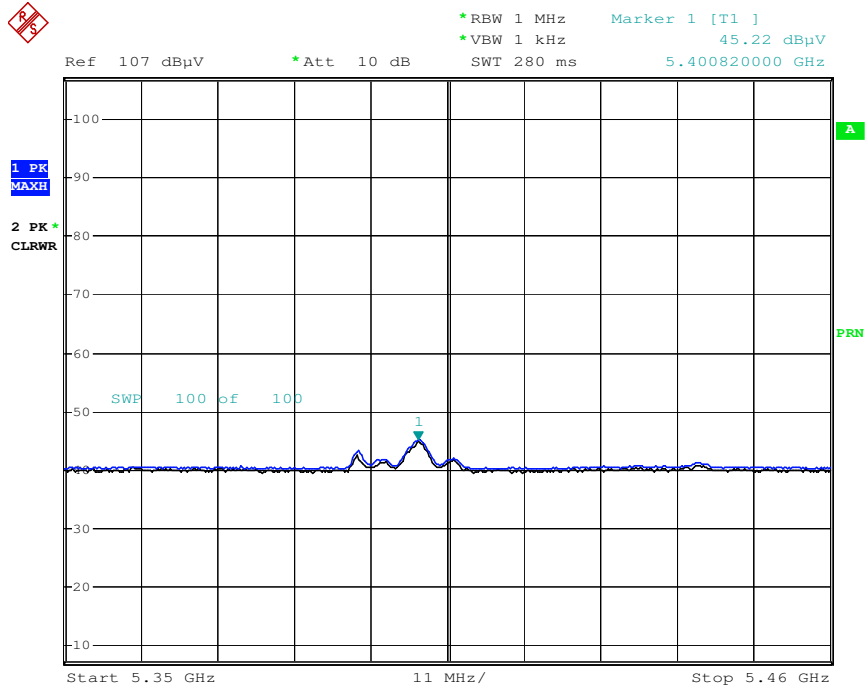
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	54.41	4.40	H	58.81	78.20	19.39	PK
5850	54.12	4.40	V	58.52	78.20	19.68	PK
5860	53.97	4.42	H	58.39	68.20	9.81	PK
5860	53.79	4.42	V	58.21	68.20	9.99	PK

**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)

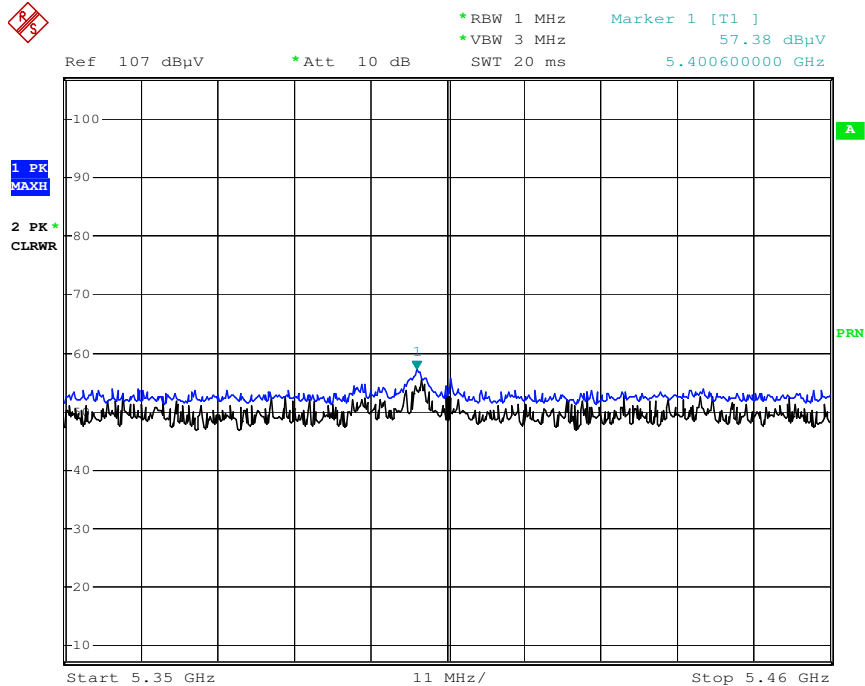
■ **RESULT PLOTS**

**Radiated Restricted Band Edges plot – Average Reading (802.11a\_20M, Ch.64)**



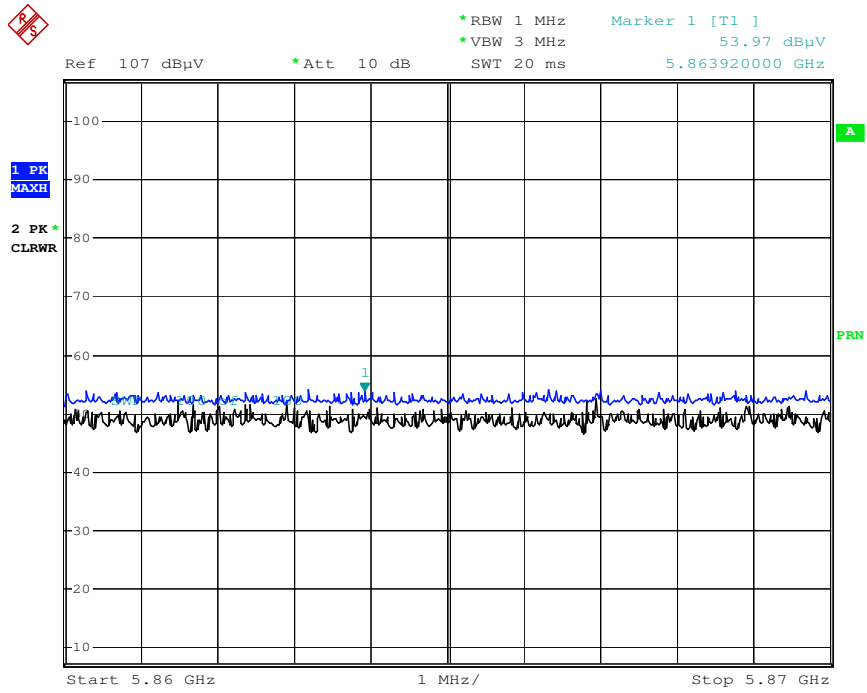
Date: 21.JAN.2016 12:15:03

**Radiated Restricted Band Edges plot – Peak Reading (802.11a\_20M, Ch.64)**



Date: 21.JAN.2016 12:14:04

**Radiated Restricted Band Edges plot – Peak Reading (802.11a\_20M, Ch.165)**



Date: 21.JAN.2016 12:17:47

**Service Port (MIMO)**

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	56.97	3.13	H	60.10	73.98	13.88	PK
5150	45.26	3.13	H	48.39	53.98	5.59	AV
5150	57.56	3.13	V	60.69	73.98	13.29	PK
5150	46.04	3.13	V	49.17	53.98	4.81	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_20 MHz BW  
 Transfer MCS Index: 0  
 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	55.19	3.13	H	58.32	73.98	15.66	PK
5150	44.20	3.13	H	47.33	53.98	6.65	AV
5150	55.38	3.13	V	58.51	73.98	15.47	PK
5150	44.62	3.13	V	47.75	53.98	6.23	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_20Mz BW  
 Transfer MCS Index: 0  
 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	56.03	3.13	H	59.16	73.98	14.82	PK
5150	44.58	3.13	H	47.71	53.98	6.27	AV
5150	56.29	3.13	V	59.42	73.98	14.56	PK
5150	44.81	3.13	V	47.94	53.98	6.04	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_40 MHz BW  
 Transfer MCS Index: 0  
 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	56.85	3.13	H	59.98	73.98	14.00	PK
5150	44.19	3.13	H	47.32	53.98	6.66	AV
5150	57.31	3.13	V	60.44	73.98	13.54	PK
5150	44.43	3.13	V	47.56	53.98	6.42	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_40 MHz BW  
 Transfer MCS Index: 0  
 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	55.86	3.13	H	58.99	73.98	14.99	PK
5150	42.96	3.13	H	46.09	53.98	7.89	AV
5150	56.21	3.13	V	59.34	73.98	14.64	PK
5150	43.72	3.13	V	46.85	53.98	7.13	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_80 MHz BW  
 Transfer MCS Index: 0  
 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	57.92	3.13	H	61.05	73.98	12.93	PK
5150	44.59	3.13	H	47.72	53.98	6.26	AV
5150	58.05	3.13	V	61.18	73.98	12.80	PK
5150	44.98	3.13	V	48.11	53.98	5.87	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	54.88	3.24	H	58.12	73.98	15.86	PK
5350	43.95	3.24	H	47.19	53.98	6.79	AV
5350	55.64	3.24	V	58.88	73.98	15.10	PK
5350	44.51	3.24	V	47.75	53.98	6.23	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_20 MHz BW  
 Transfer MCS Index: 0  
 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	56.67	3.24	H	59.91	73.98	14.07	PK
5350	44.12	3.24	H	47.36	53.98	6.62	AV
5350	57.09	3.24	V	60.33	73.98	13.65	PK
5350	44.89	3.24	V	48.13	53.98	5.85	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_20Mz BW  
 Transfer MCS Index: 0  
 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	55.79	3.24	H	59.03	73.98	14.95	PK
5350	44.14	3.24	H	47.38	53.98	6.60	AV
5350	56.33	3.24	V	59.57	73.98	14.41	PK
5350	44.63	3.24	V	47.87	53.98	6.11	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_40 MHz BW  
 Transfer MCS Index: 0  
 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	56.41	3.24	H	59.65	73.98	14.33	PK
5350	44.11	3.24	H	47.35	53.98	6.63	AV
5350	56.93	3.24	V	60.17	73.98	13.81	PK
5350	44.39	3.24	V	47.63	53.98	6.35	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_40 MHz BW  
 Transfer MCS Index: 0  
 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	57.61	3.24	H	60.85	73.98	13.13	PK
5350	43.16	3.24	H	46.4	53.98	7.58	AV
5350	57.69	3.24	V	60.93	73.98	13.05	PK
5350	43.29	3.24	V	46.53	53.98	7.45	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_80 MHz BW  
 Transfer MCS Index: 0  
 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	59.76	3.24	H	63.00	73.98	10.98	PK
5350	43.86	3.24	H	47.1	53.98	6.88	AV
5350	60.67	3.24	V	63.91	73.98	10.07	PK
5350	44.27	3.24	V	47.51	53.98	6.47	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	57.54	3.59	H	61.13	73.98	12.85	PK
5460	44.60	3.59	H	48.19	53.98	5.79	AV
5470	54.02	3.56	H	57.58	68.20	10.62	PK
5460	56.91	3.59	V	60.5	73.98	13.48	PK
5460	43.22	3.59	V	46.81	53.98	7.17	AV
5470	53.87	3.56	V	57.43	68.20	10.77	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_20MHz BW  
 Transfer MCS Index: 0  
 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	56.16	3.59	H	59.75	73.98	14.23	PK
5460	44.54	3.59	H	48.13	53.98	5.85	AV
5470	54.27	3.56	H	57.83	68.20	10.37	PK
5460	56.10	3.59	V	59.69	73.98	14.29	PK
5460	43.86	3.59	V	47.45	53.98	6.53	AV
5470	53.84	3.56	V	57.4	68.20	10.80	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_20 MHz BW  
 Transfer MCS Index: 0  
 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	56.13	3.59	H	59.72	73.98	14.26	PK
5460	44.53	3.59	H	48.12	53.98	5.86	AV
5470	53.94	3.56	H	57.5	68.20	10.70	PK
5460	55.95	3.59	V	59.54	73.98	14.44	PK
5460	43.89	3.59	V	47.48	53.98	6.50	AV
5470	53.29	3.56	V	56.85	68.20	11.35	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_40 MHz BW  
 Transfer MCS Index: 0  
 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	55.37	3.59	H	58.96	73.98	15.02	PK
5460	42.22	3.59	H	45.81	53.98	8.17	AV
5470	58.48	3.56	H	62.04	68.20	6.16	PK
5460	54.76	3.59	V	58.35	73.98	15.63	PK
5460	41.89	3.59	V	45.48	53.98	8.50	AV
5470	57.47	3.56	V	61.03	68.20	7.17	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_40 MHz BW  
 Transfer MCS Index: 0  
 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	54.88	3.59	H	58.47	73.98	15.51	PK
5460	42.13	3.59	H	45.72	53.98	8.26	AV
5470	57.69	3.56	H	61.25	68.20	6.95	PK
5460	54.42	3.59	V	58.01	73.98	15.97	PK
5460	42.10	3.59	V	45.69	53.98	8.29	AV
5470	57.16	3.56	V	60.72	68.20	7.48	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_80 MHz BW  
 Transfer MCS Index: 0  
 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	54.37	3.59	H	57.96	73.98	16.02	PK
5460	40.80	3.59	H	44.39	53.98	9.59	AV
5470	58.80	3.56	H	62.36	68.20	5.84	PK
5460	54.29	3.59	V	57.88	73.98	16.10	PK
5460	40.30	3.59	V	43.89	53.98	10.09	AV
5470	58.24	3.56	V	61.8	68.20	6.40	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	54.64	4.40	H	59.04	78.20	19.16	PK
5850	54.73	4.40	V	59.13	78.20	19.07	PK
5860	54.19	4.42	H	58.61	68.20	9.59	PK
5860	54.53	4.42	V	58.95	68.20	9.25	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_20MHz BW  
 Transfer MCS Index: 0  
 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	57.93	4.40	H	62.33	78.20	15.87	PK
5850	58.58	4.40	V	62.98	78.20	15.22	PK
5860	54.16	4.42	H	58.58	68.20	9.62	PK
5860	54.48	4.42	V	58.90	68.20	9.30	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_20 MHz BW  
 Transfer MCS Index: 0  
 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	54.59	4.40	H	58.99	78.20	19.21	PK
5850	54.74	4.40	V	59.14	78.20	19.06	AV
5860	53.86	4.42	H	58.28	68.20	9.92	PK
5860	54.01	4.42	V	58.43	68.20	9.77	AV

Band : UNII 3  
 Operation Mode: 802.11 n\_40 MHz BW  
 Transfer MCS Index: 0  
 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	56.88	4.40	H	61.28	78.20	16.92	PK
5850	57.04	4.40	V	61.44	78.20	16.76	PK
5860	58.42	4.42	H	62.84	68.20	5.36	PK
5860	58.51	4.42	V	62.93	68.20	5.27	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_40 MHz BW  
 Transfer MCS Index: 0  
 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	57.55	4.40	H	61.95	78.20	16.25	PK
5850	58.07	4.40	V	62.47	78.20	15.73	AV
5860	58.84	4.42	H	63.26	68.20	4.94	PK
5860	59.51	4.42	V	63.93	68.20	4.27	AV

Band : UNII 3  
 Operation Mode: 802.11 ac\_80 MHz BW  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 155 Ch

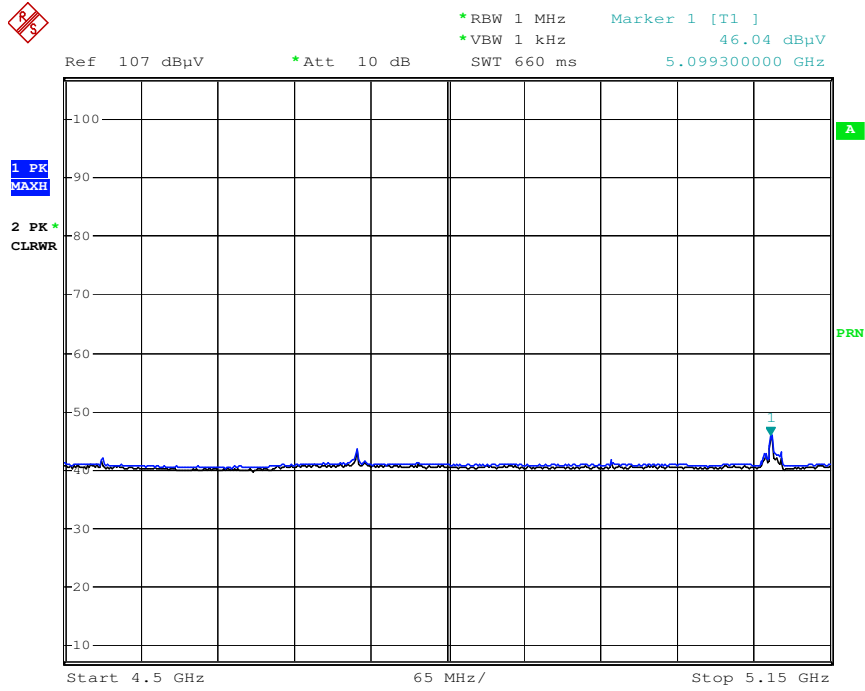
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	59.71	4.40	H	64.11	78.20	14.09	PK
5850	60.75	4.40	V	65.15	78.20	13.05	PK
5860	58.36	4.42	H	62.78	68.20	5.42	PK
5860	58.92	4.42	V	63.34	68.20	4.86	PK

**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)

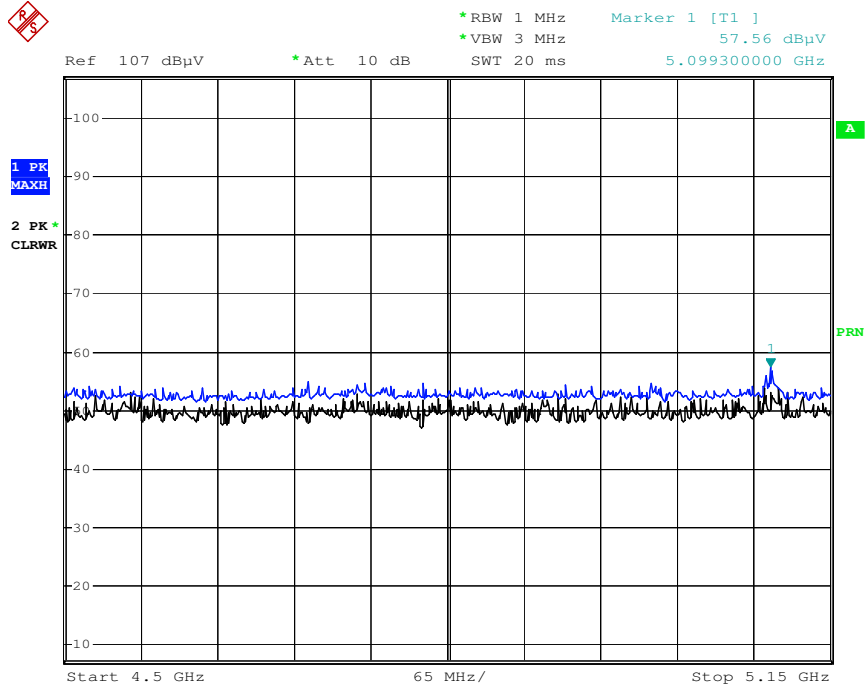
■ **RESULT PLOTS**

**Radiated Restricted Band Edges plot – Average Reading (802.11a\_20M, Ch.36)**



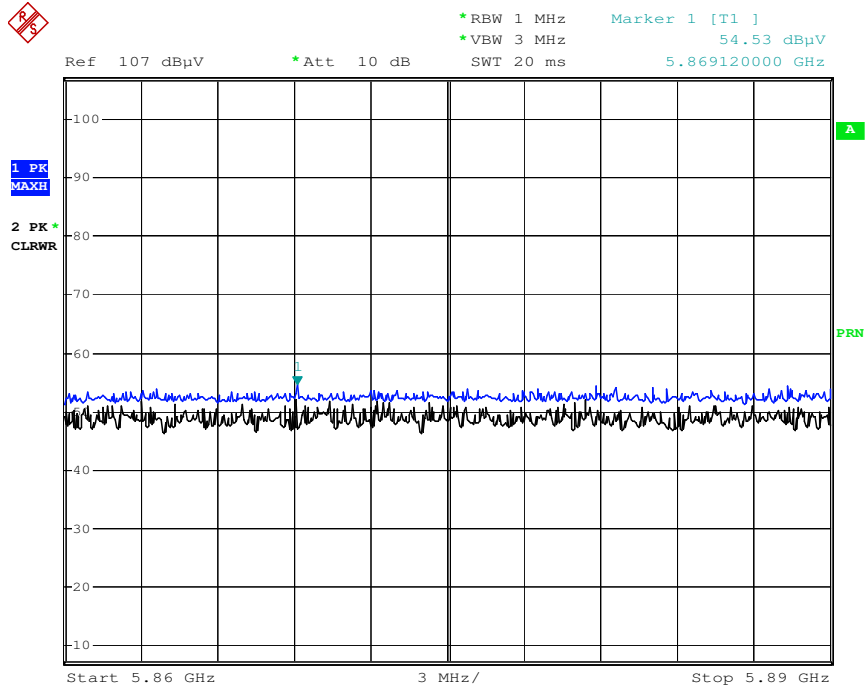
Date: 20.JAN.2016 03:36:19

**Radiated Restricted Band Edges plot – Peak Reading (802.11a\_20M, Ch.36)**



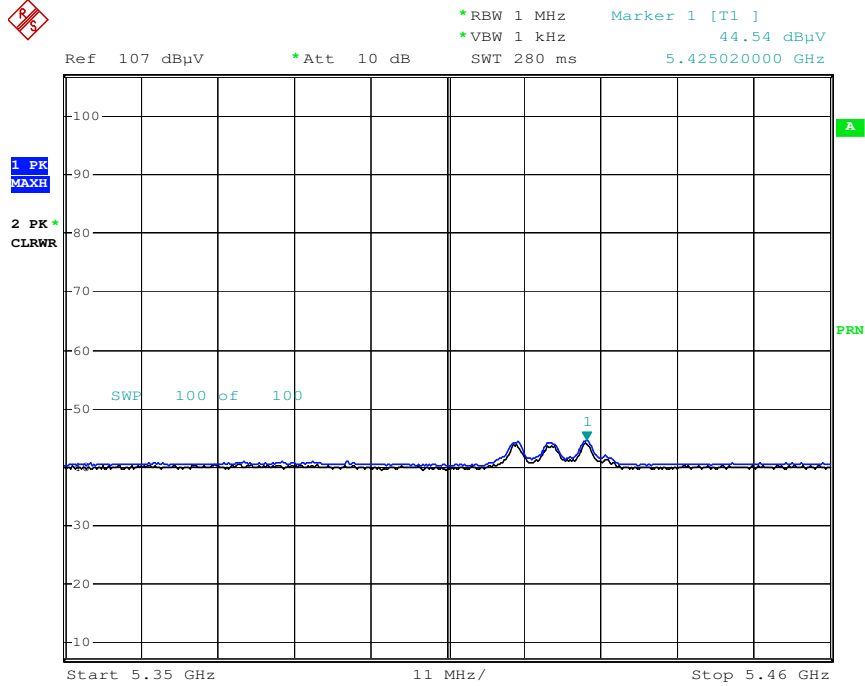
Date: 20.JAN.2016 03:41:26

**Radiated Restricted Band Edges plot –Peak Reading (802.11a\_20M, Ch.165)**



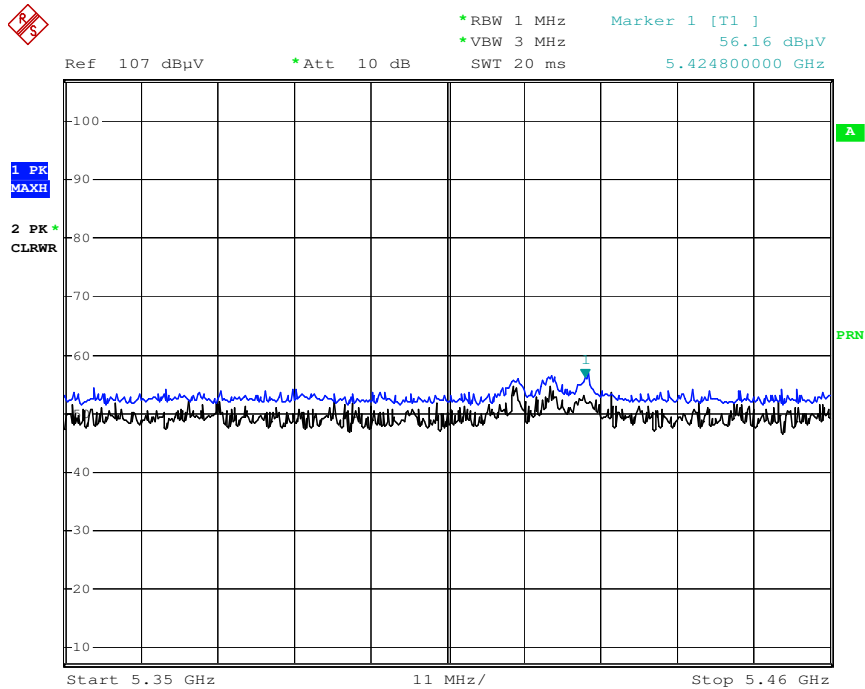
Date: 18.JAN.2016 07:33:19

**Radiated Restricted Band Edges plot – Average Reading (802.11n\_20M, Ch.100)**



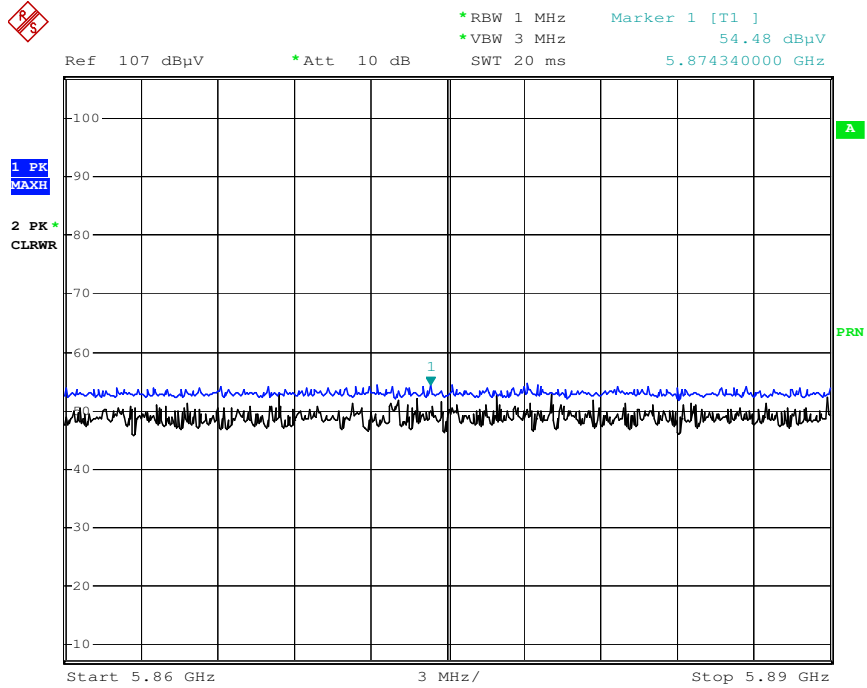
Date: 19.JAN.2016 13:13:11

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_20M, Ch.100)**



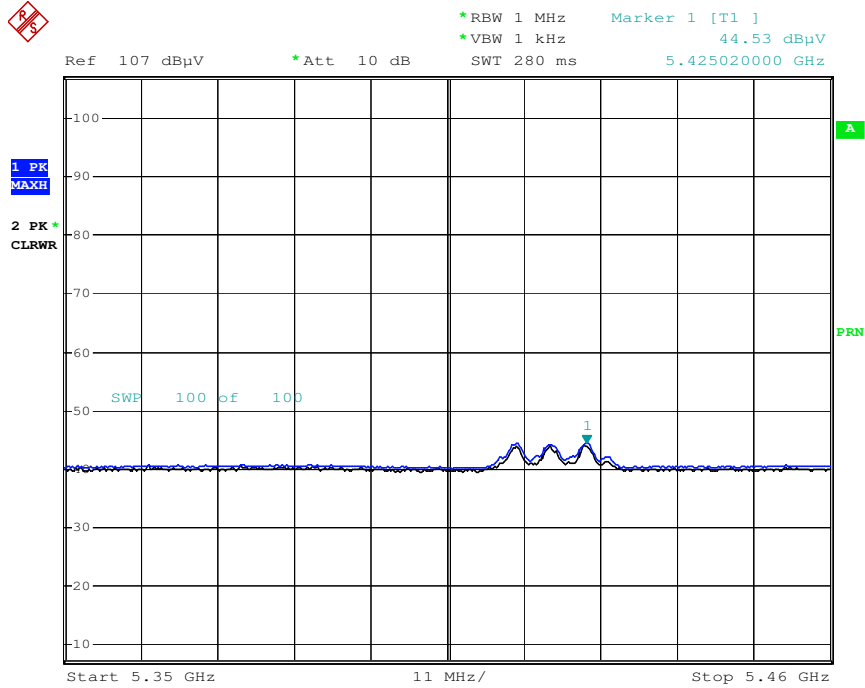
Date: 19.JAN.2016 13:13:39

**Radiated Restricted Band Edges plot –Peak Reading (802.11n\_20M, Ch.165)**



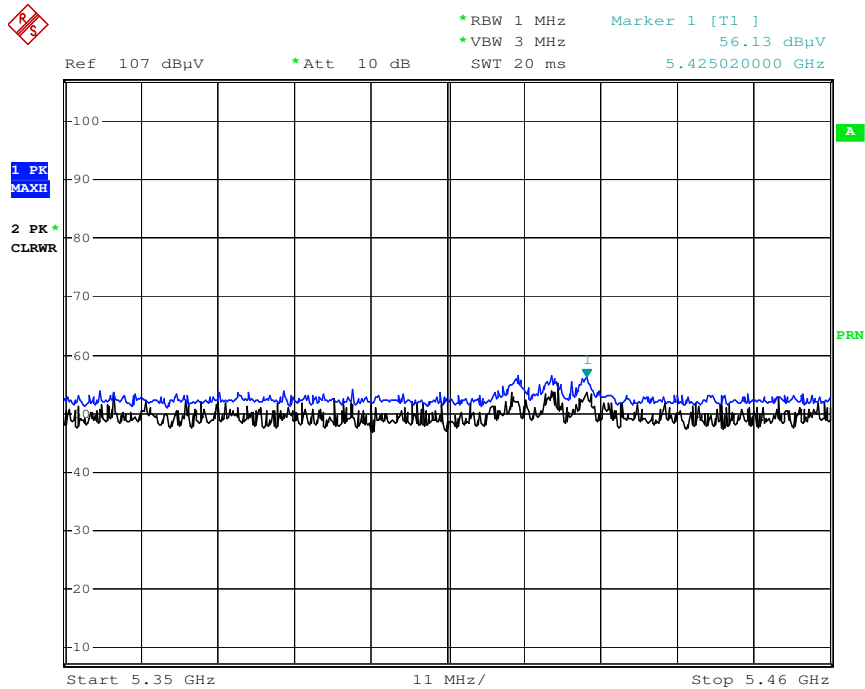
Date: 18.JAN.2016 07:31:40

**Radiated Restricted Band Edges plot – Average Reading (802.11ac\_20M, Ch.100)**



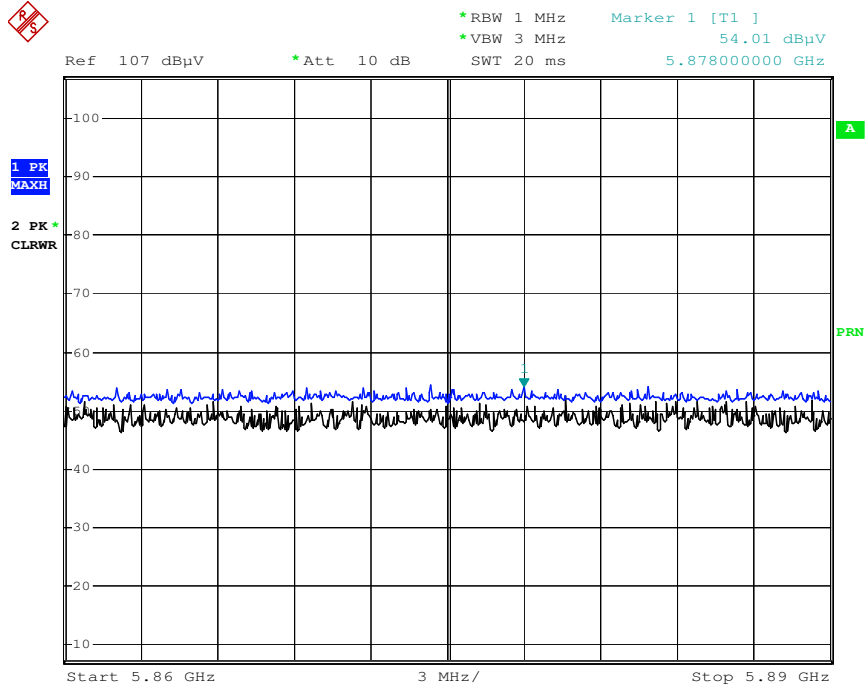
Date: 19.JAN.2016 13:17:00

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_20M, Ch.100)**



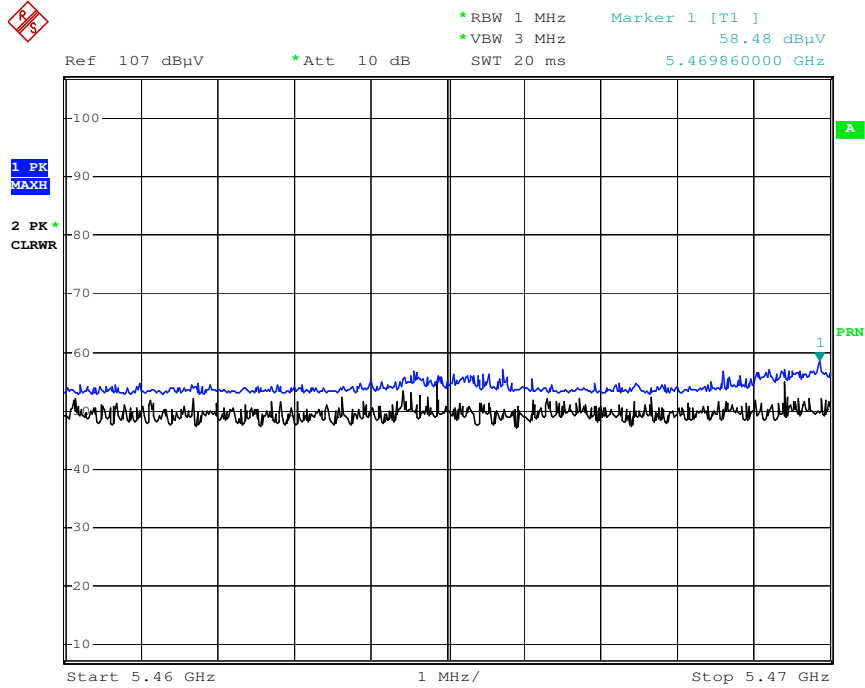
Date: 19.JAN.2016 13:19:07

**Radiated Restricted Band Edges plot –Peak Reading (802.11ac\_20M, Ch.165)**



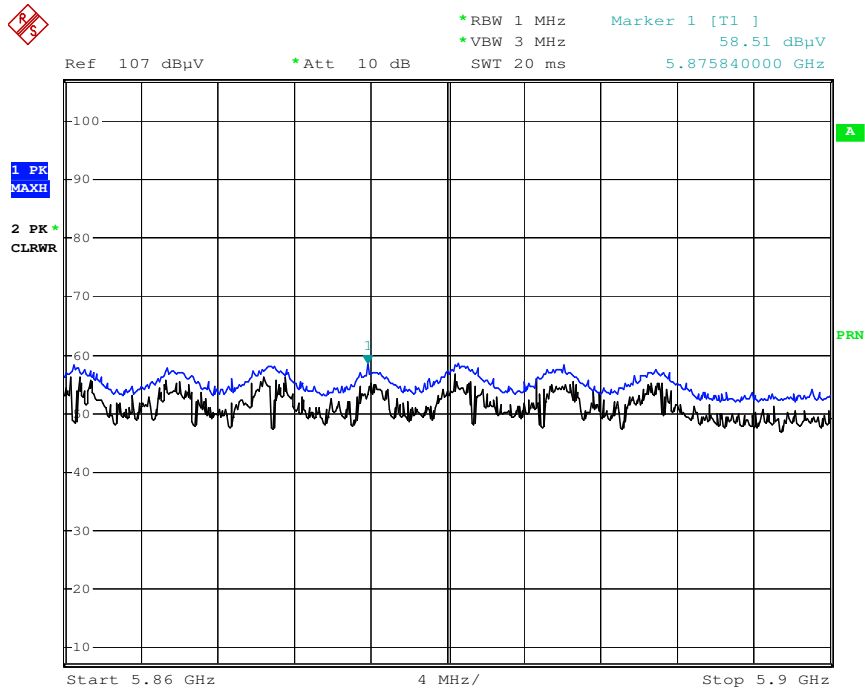
Date: 18.JAN.2016 07:30:28

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_40M, Ch.102)**



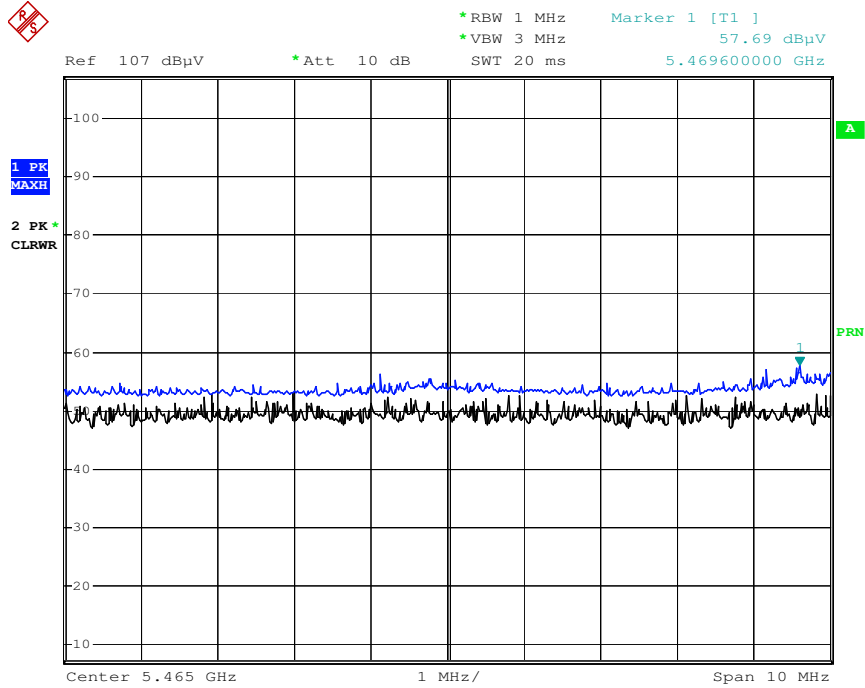
Date: 19.JAN.2016 13:31:13

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_40M, Ch.159)**



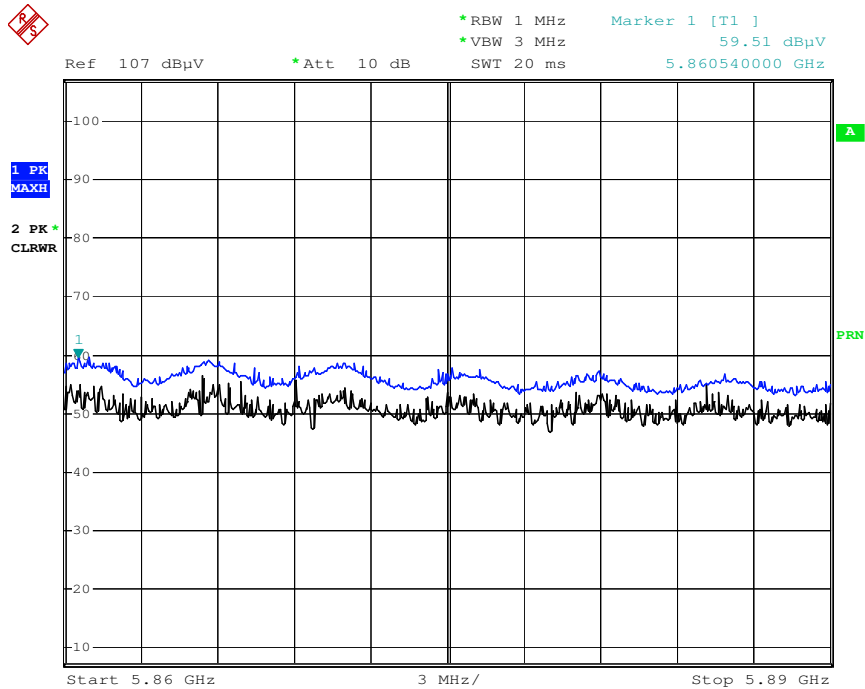
Date: 18.JAN.2016 06:30:44

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_40M, Ch.102)**



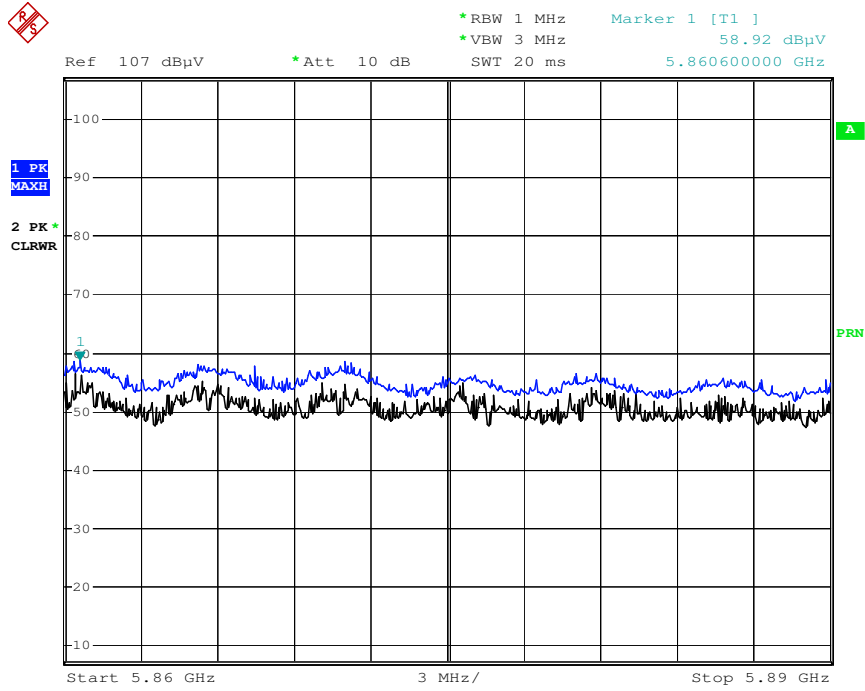
Date: 19.JAN.2016 13:37:00

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_40M, Ch.159)**



Date: 18.JAN.2016 07:27:18

### Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_80M, Ch.155)



Date: 18.JAN.2016 07:24:19

### 8.8.3 RECEIVER SPURIOUS EMISSIONS

**IC Rule(s)** RSS-GEN  
**Test Requirements:** Below the table  
**Operating conditions:** Under normal test conditions  
**Method of testing:** Radiated

**S/A. Settings:** F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)  
 F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)  
**Mode of operation:** Receive

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

**Operation Mode: Receive:**

30 MHz ~ 1 GHz

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

Above 1 GHz

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

## 8.9 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 (dB $\mu$ V)	
	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 58.5 Mbps, Ch.140 and 802.11n\_20 MHz BW mode in UNII 2C. Because the mode in UNII 2C is worst case.

▣ **RESULT PLOTS**

**Conducted Emissions (Line 1)**

RE WLAN MODE 5G N

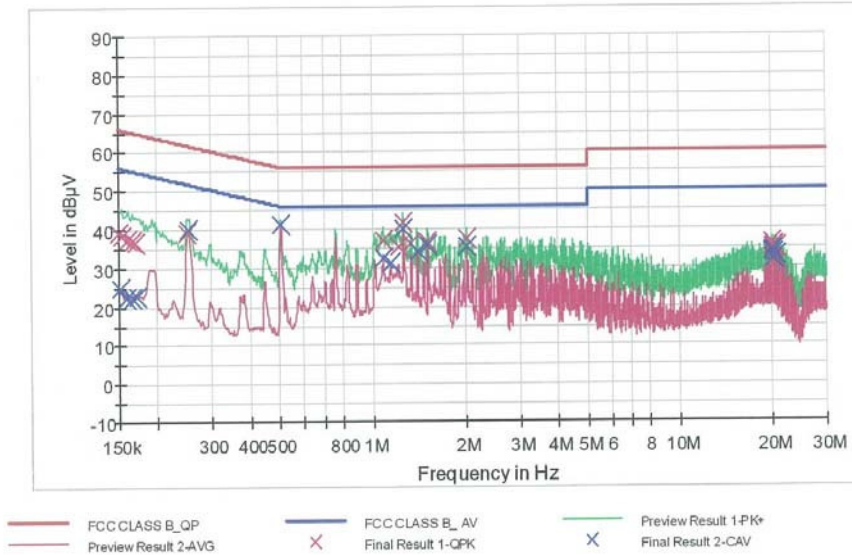
1 / 2

**HCT TEST Report**

**Common Information**

EUT:	WEA403Si
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN MODE_5G
Operator Name	SK LEE

FCC CLASS B



**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	39.1	9.000	Off	N	9.6	26.9	66.0
0.154000	38.3	9.000	Off	N	9.6	27.5	65.9
0.160000	37.6	9.000	Off	N	9.6	27.9	65.5
0.166000	37.0	9.000	Off	N	9.6	28.2	65.2
0.170000	36.5	9.000	Off	N	9.6	28.5	65.0
0.250000	39.0	9.000	Off	N	9.6	22.8	61.8
1.086000	37.0	9.000	Off	N	9.7	19.0	56.0
1.216000	35.3	9.000	Off	N	9.7	20.7	56.0
1.264000	41.6	9.000	Off	N	9.7	14.4	56.0
1.338000	36.1	9.000	Off	N	9.7	19.9	56.0
1.518000	36.6	9.000	Off	N	9.7	19.4	56.0
2.022000	37.4	9.000	Off	N	9.7	18.6	56.0
20.000000	36.0	9.000	Off	N	10.3	24.0	60.0
20.042000	35.0	9.000	Off	N	10.3	25.0	60.0
20.082000	34.9	9.000	Off	N	10.3	25.1	60.0
20.120000	35.6	9.000	Off	N	10.3	24.4	60.0

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7:26:05

RE WLAN MODE 5G N

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
20.162000	33.9	9.000	Off	N	10.3	26.1	60.0
20.680000	34.9	9.000	Off	N	10.3	25.1	60.0

**Final Result 2**

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	24.8	9.000	Off	N	9.6	31.1	55.9
0.158000	22.5	9.000	Off	N	9.6	33.1	55.6
0.166000	22.4	9.000	Off	N	9.6	32.8	55.2
0.172000	22.9	9.000	Off	N	9.6	32.0	54.9
0.252000	39.9	9.000	Off	N	9.6	11.8	51.7
0.506000	41.2	9.000	Off	N	9.6	4.8	46.0
1.086000	32.4	9.000	Off	N	9.7	13.6	46.0
1.148000	31.1	9.000	Off	N	9.7	14.9	46.0
1.264000	40.0	9.000	Off	N	9.7	6.0	46.0
1.404000	34.2	9.000	Off	N	9.7	11.8	46.0
1.516000	35.7	9.000	Off	N	9.7	10.3	46.0
2.022000	35.3	9.000	Off	N	9.7	10.7	46.0
20.000000	33.9	9.000	Off	N	10.3	16.1	50.0
20.040000	34.1	9.000	Off	N	10.3	15.9	50.0
20.080000	34.0	9.000	Off	N	10.3	16.0	50.0
20.120000	33.3	9.000	Off	N	10.3	16.8	50.0
20.160000	31.8	9.000	Off	N	10.3	18.2	50.0
20.680000	32.8	9.000	Off	N	10.3	17.2	50.0

1/21/2016

7:26:05

**Conducted Emissions (Line 2)**

RE WLAN MODE 5G L1

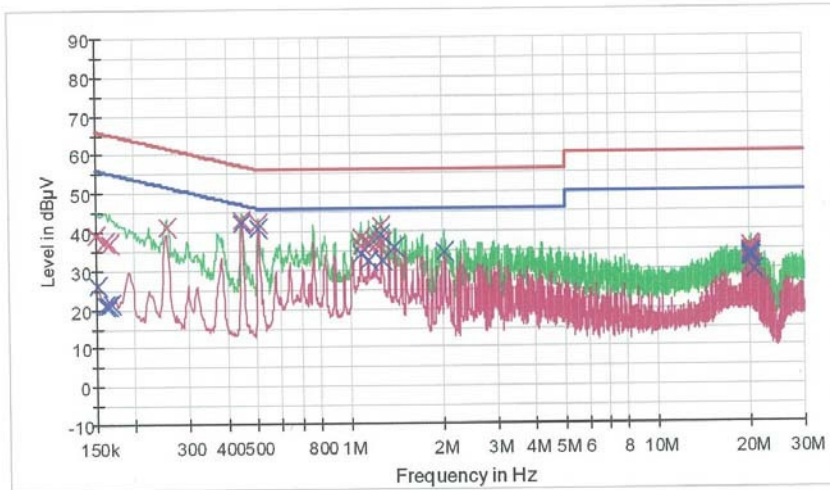
1/2

**HCT TEST Report**

**Common Information**

EUT: WEA403Si  
 Manufacturer: SAMSUNG  
 Test Site: SHIELD ROOM  
 Operating Conditions: WLAN MODE\_5G  
 Operator Name: SK LEE

FCC CLASS B



— FCCCLASS\_B\_QP      — FCCCLASS\_B\_AV      — Preview Result 1-PK  
 — Preview Result 2-AVG      x Final Result 1-QPK      x Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	39.1	9.000	Off	L1	9.7	26.9	66.0
0.160000	37.4	9.000	Off	L1	9.6	28.1	65.5
0.166000	37.0	9.000	Off	L1	9.6	28.2	65.2
0.254000	41.1	9.000	Off	L1	9.6	20.5	61.6
0.446000	43.0	9.000	Off	L1	9.7	13.9	56.9
0.506000	42.0	9.000	Off	L1	9.7	14.0	56.0
1.084000	38.3	9.000	Off	L1	9.7	17.7	56.0
1.088000	36.3	9.000	Off	L1	9.7	19.7	56.0
1.148000	36.9	9.000	Off	L1	9.7	19.1	56.0
1.212000	36.5	9.000	Off	L1	9.7	19.5	56.0
1.264000	41.1	9.000	Off	L1	9.7	14.9	56.0
1.268000	37.0	9.000	Off	L1	9.7	19.0	56.0
19.958000	34.1	9.000	Off	L1	10.2	25.9	60.0
19.962000	34.1	9.000	Off	L1	10.2	25.9	60.0
19.998000	34.6	9.000	Off	L1	10.2	25.4	60.0
20.040000	35.6	9.000	Off	L1	10.3	24.4	60.0

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Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
20.082000	34.7	9.000	Off	L1	10.3	25.3	60.0
20.120000	35.2	9.000	Off	L1	10.3	24.8	60.0

**Final Result 2**

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	26.1	9.000	Off	L1	9.6	29.8	55.9
0.160000	21.2	9.000	Off	L1	9.6	34.3	55.5
0.164000	21.0	9.000	Off	L1	9.6	34.3	55.3
0.169000	21.3	9.000	Off	L1	9.6	33.8	55.1
0.446000	42.0	9.000	Off	L1	9.7	4.9	46.9
0.506000	40.6	9.000	Off	L1	9.7	6.4	46.0
1.084000	34.2	9.000	Off	L1	9.7	11.8	46.0
1.148000	32.3	9.000	Off	L1	9.7	13.7	46.0
1.264000	39.2	9.000	Off	L1	9.7	6.8	46.0
1.274000	32.2	9.000	Off	L1	9.7	13.8	46.0
1.402000	35.7	9.000	Off	L1	9.7	10.3	46.0
2.022000	34.7	9.000	Off	L1	9.8	11.3	46.0
19.960000	32.8	9.000	Off	L1	10.2	17.2	50.0
20.000000	33.5	9.000	Off	L1	10.3	16.5	50.0
20.040000	33.7	9.000	Off	L1	10.3	16.3	50.0
20.080000	33.6	9.000	Off	L1	10.3	16.4	50.0
20.120000	32.8	9.000	Off	L1	10.3	17.2	50.0
20.760000	29.4	9.000	Off	L1	10.3	20.6	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	12/28/2015	Annual	100073
Rohde & Schwarz	ESCI / TEST RECEIVER	12/28/2015	Annual	100584
Agilent	N9020A / SIGNAL ANALYZER	06/30/2015	Annual	MY51110085
Agilent	N9030A / SIGNAL ANALYZER	11/24/2015	Annual	MY49431210
Agilent	N1911A/Power Meter	07/09/2015	Annual	MY45100523
Agilent	N1921A /POWER SENSOR	07/09/2015	Annual	MY45241059
Agilent	87300B/Directional Coupler	11/30/2015	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/15/2015	Annual	5001
Hewlett Packard	E3632A / DC POWER SUPPLY	03/11/2015	Annual	KR75303962
Agilent	8493C / Attenuator(10 dB)	07/23/2015	Annual	07560
ESPAC.	SH-642 / Temp & Humidity Chamber	07/23/2015	Annual	93000717

**9.2 LIST OF TEST EQUIPMENT(Radiated Test)**

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	MA4000-EP / Antenna Position Tower	N/A	N/A	N/A
Innco system	CT0800 / Turn Table	N/A	N/A	N/A
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
ETS	2090 / Controller(Turn table)	N/A	N/A	1646
Rohde & Schwarz	Loop Antenna	02/04/2016	Biennial	100179
Schwarzbeck	VULB 9160 / Trilog Antenna	10/10/2014	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	08/26/2014	Biennial	9120D-1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	09/03/2015	Biennial	BBHA9170541
Rohde & Schwarz	FSP / Spectrum Analyzer	10/05/2015	Annual	836650/016
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	08/20/2015	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	08/03/2015	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	07/06/2015	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/26/2016	Annual	2
H.P.	8491A / 10dB Attenuator	08/11/2015	Annual	18593
CERNEX	CBLU1183540 / Power Amplifier	02/01/2016	Annual	24614
CERNEX	CBL06185030 / Power Amplifier	02/01/2016	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	07/27/2015	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	07/09/2015	Annual	25956