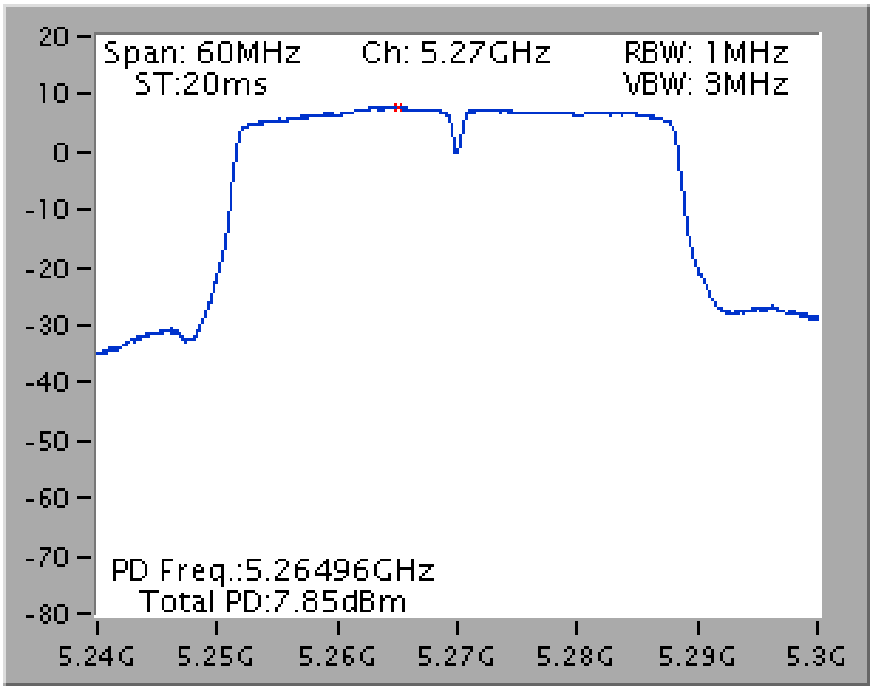
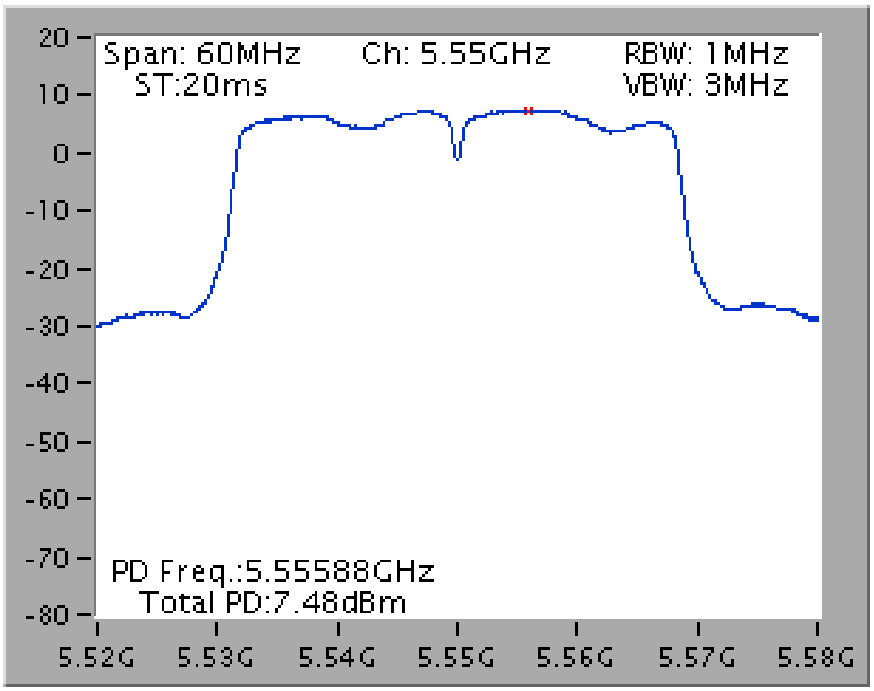
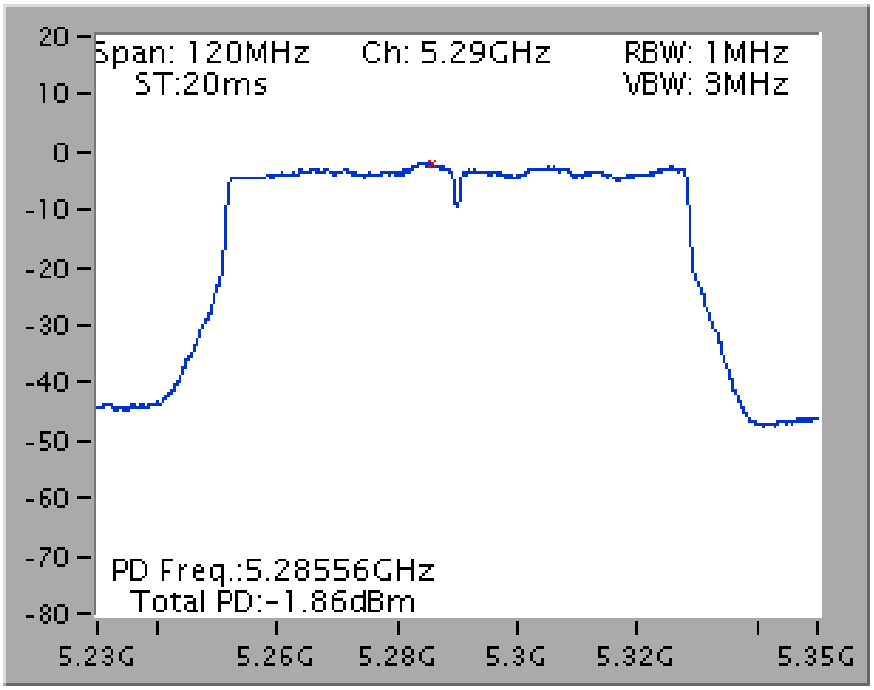
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5270 MHz



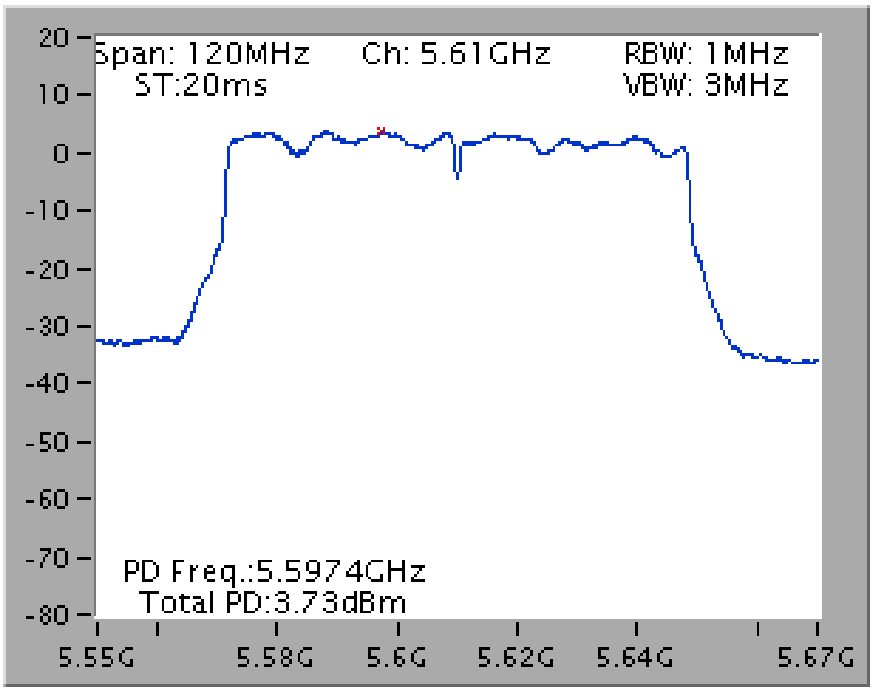
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5550 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz

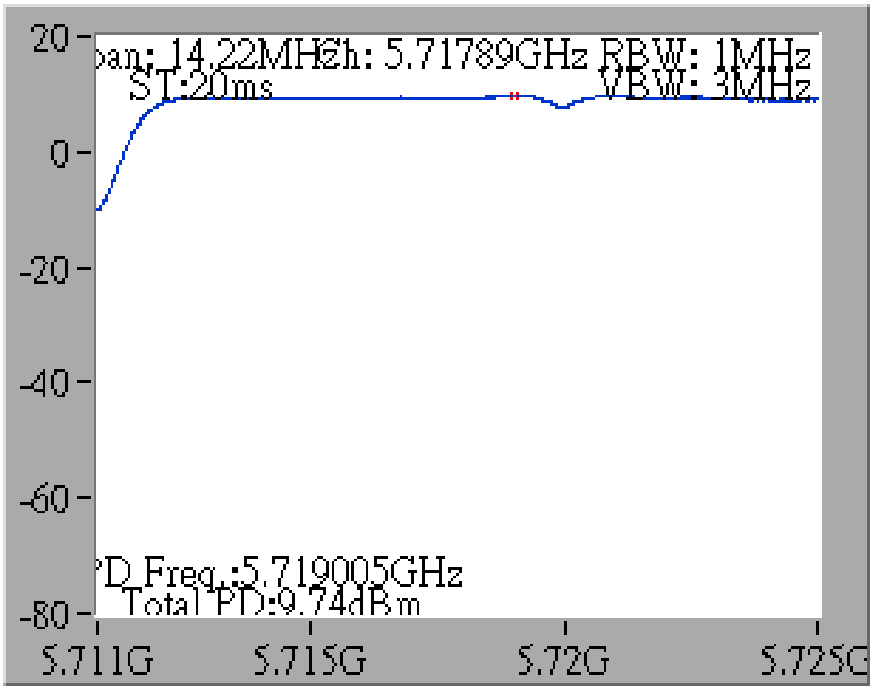


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5610 MHz

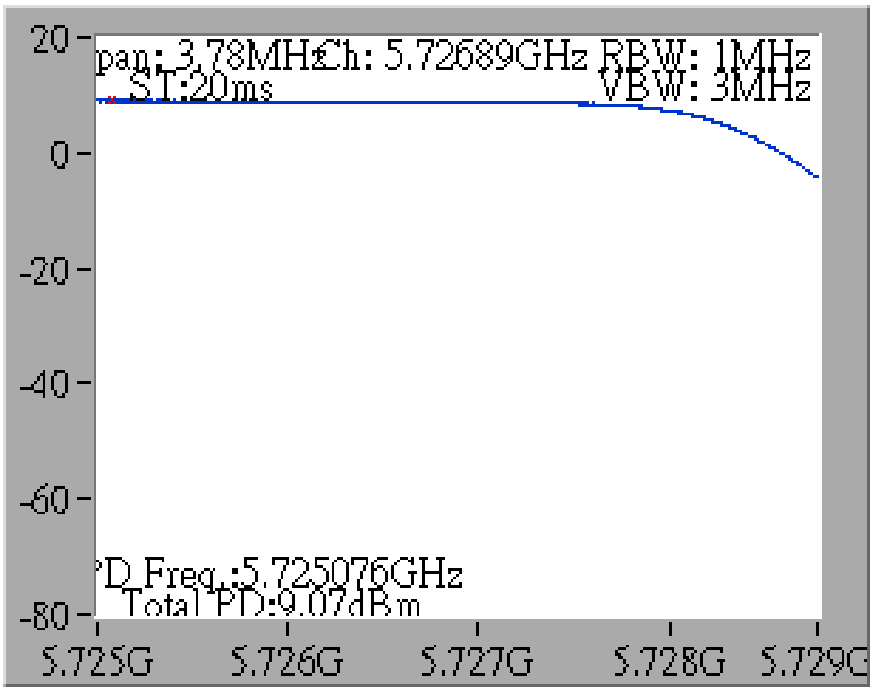


Straddle Channel

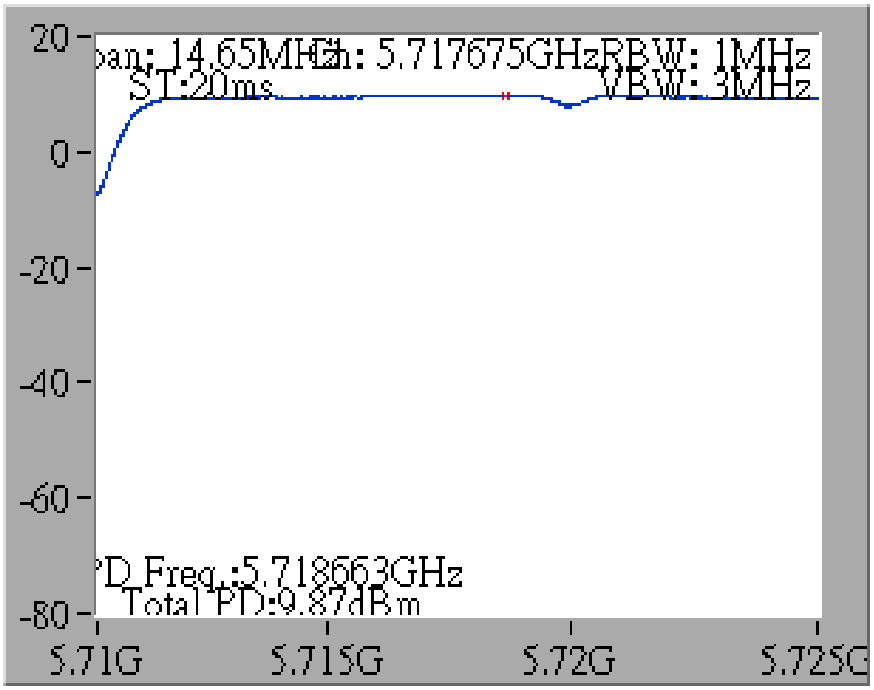
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



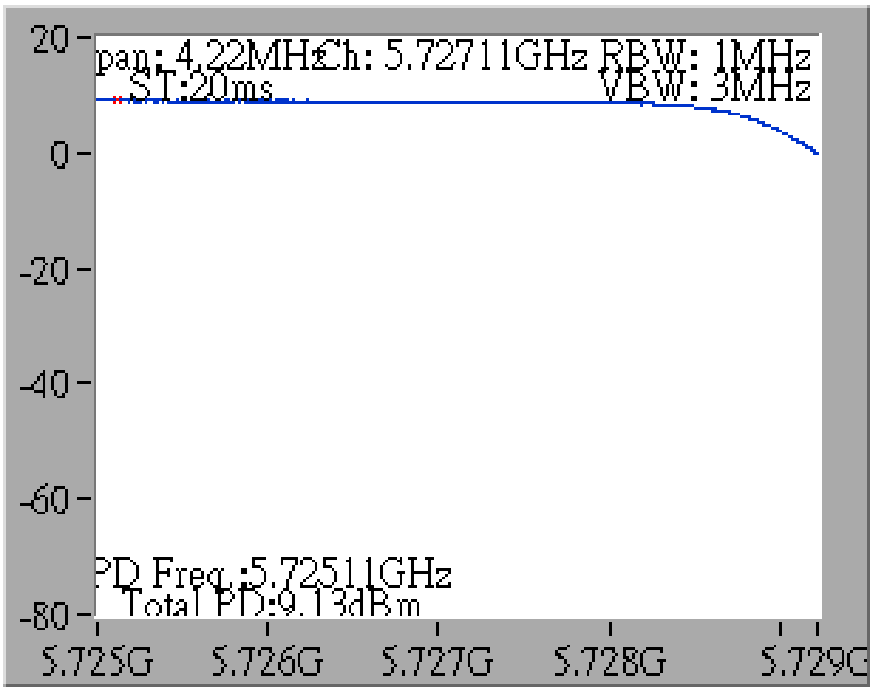
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



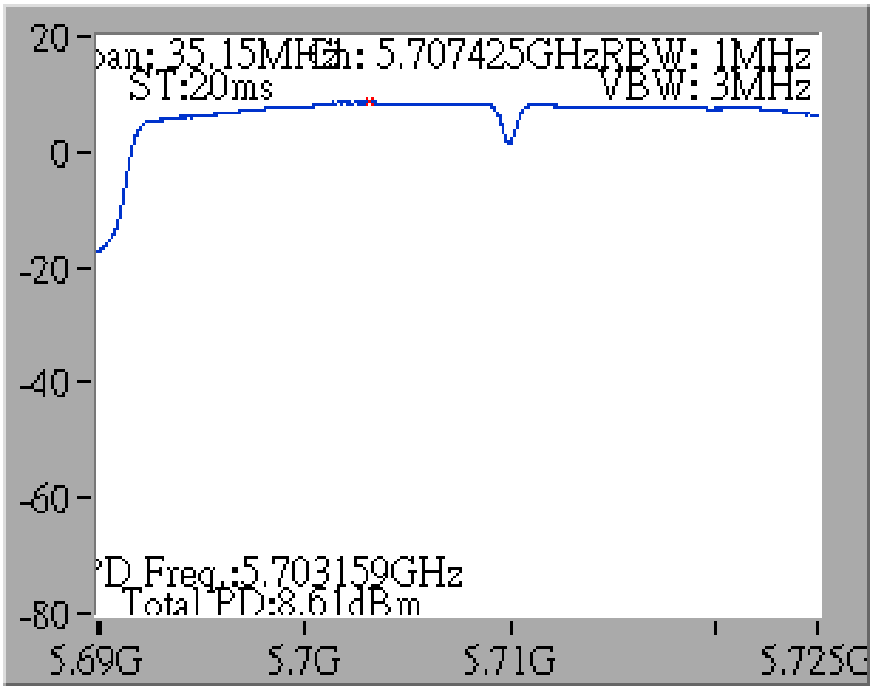
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



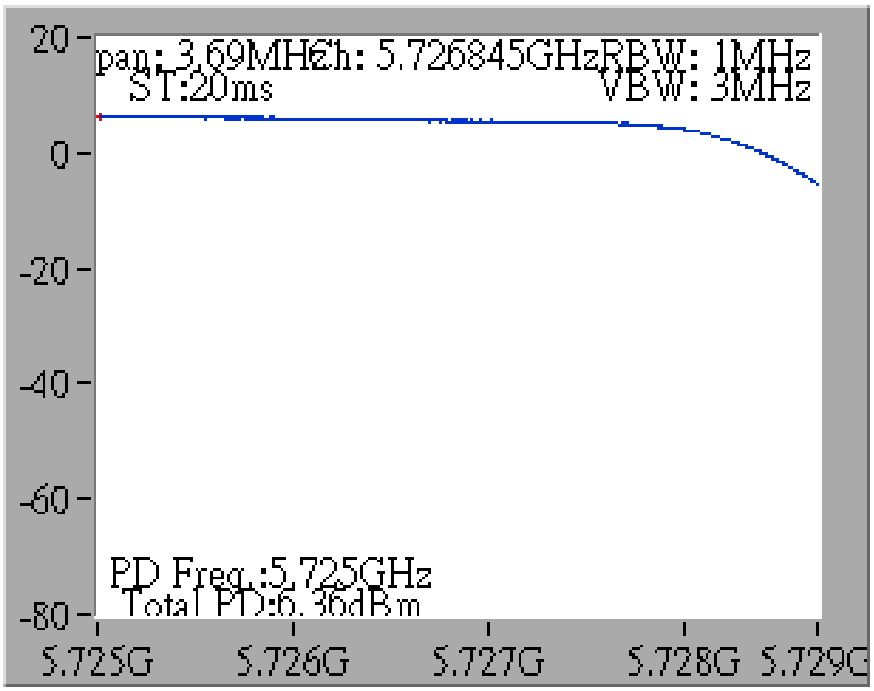
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



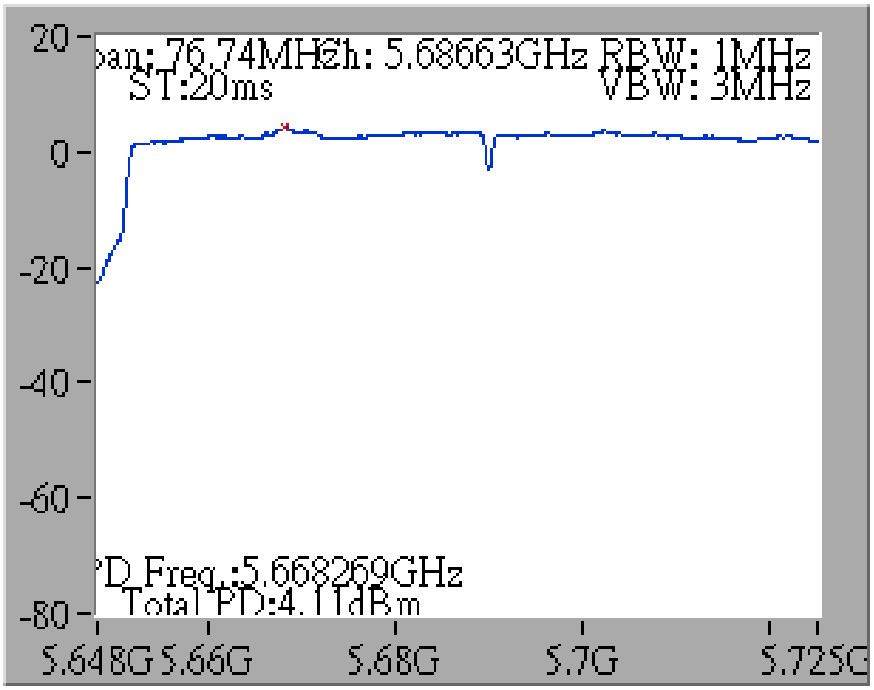
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



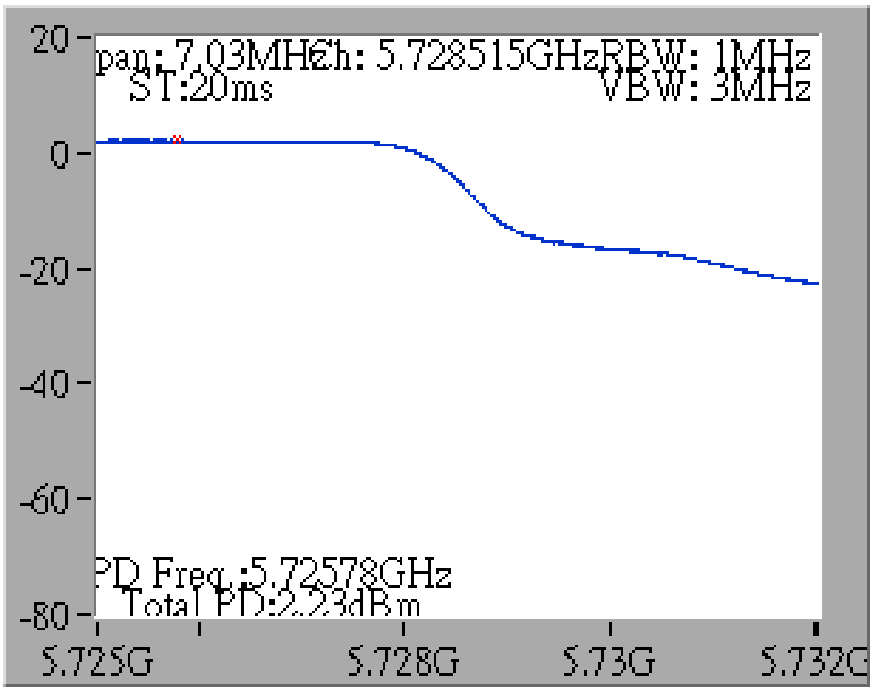
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

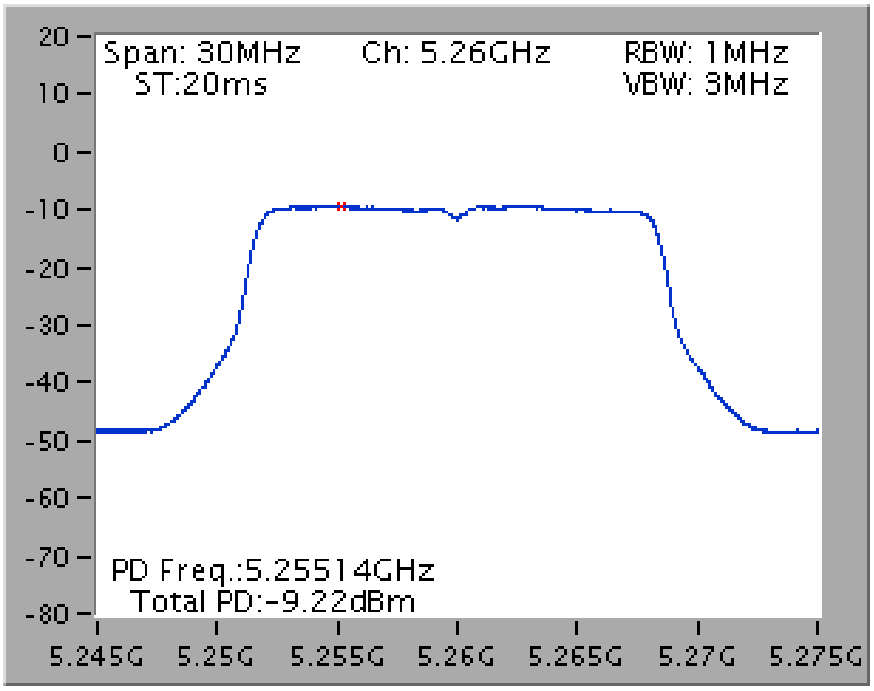


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)

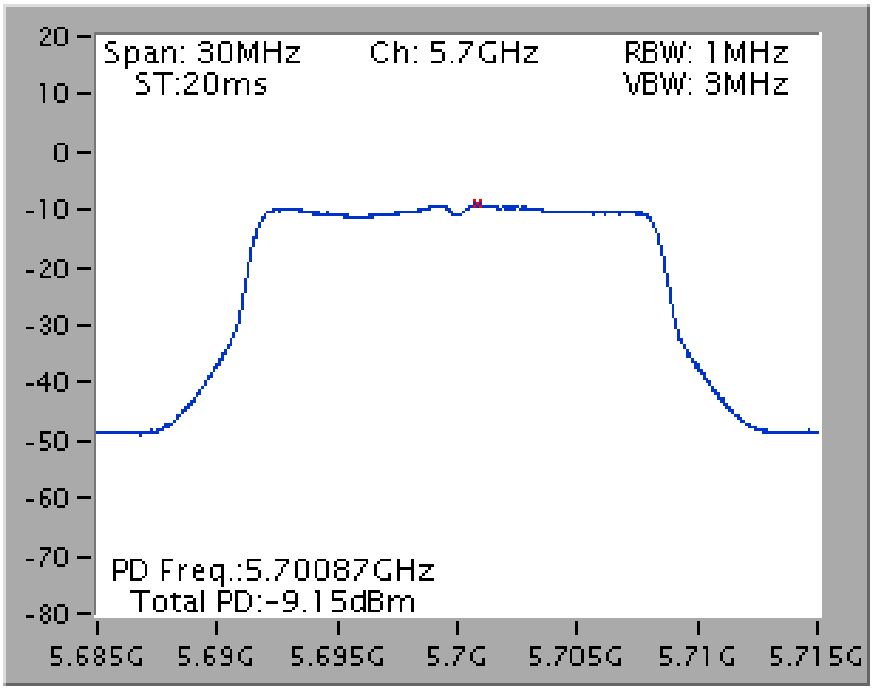


Mode 9: EUT 1 + Set 10 Panel Antenna / 23 dBi

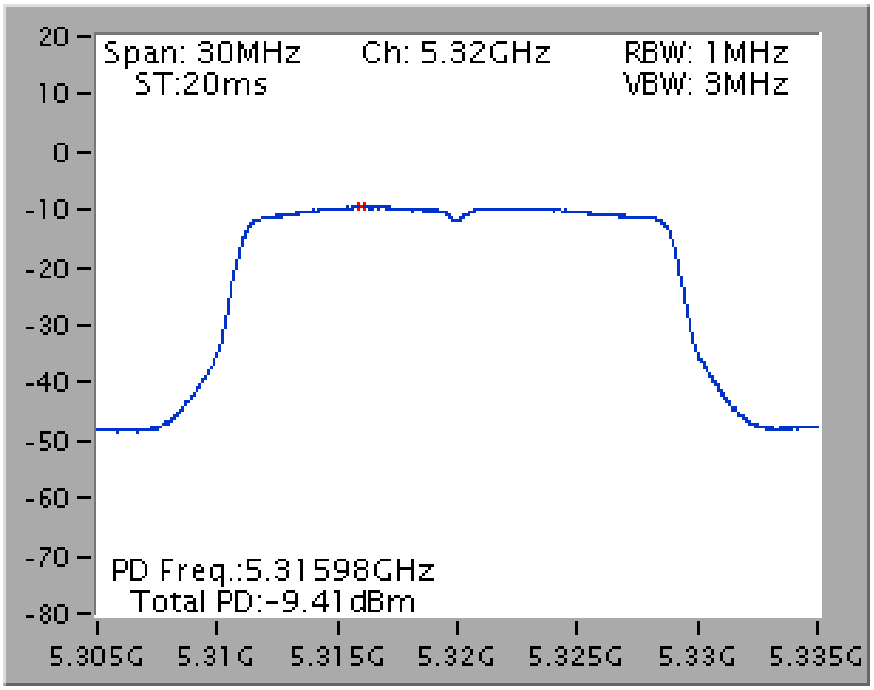
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5260 MHz



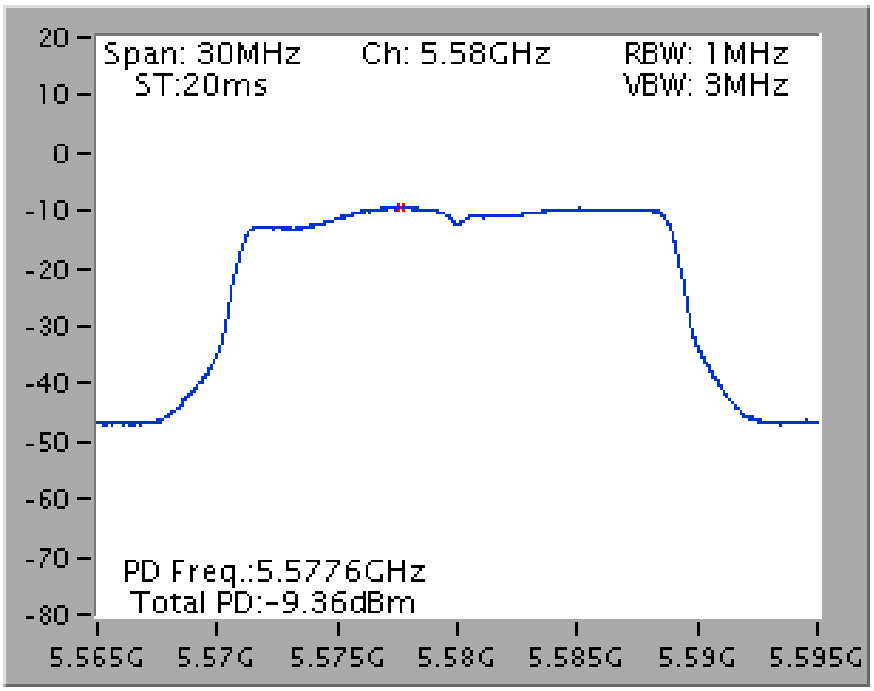
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5700 MHz



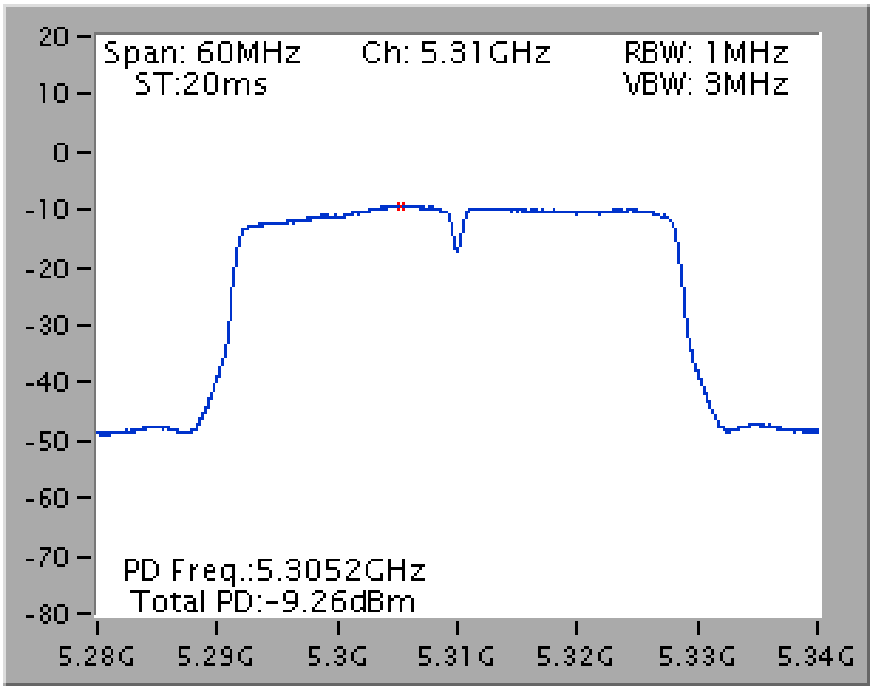
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5320 MHz



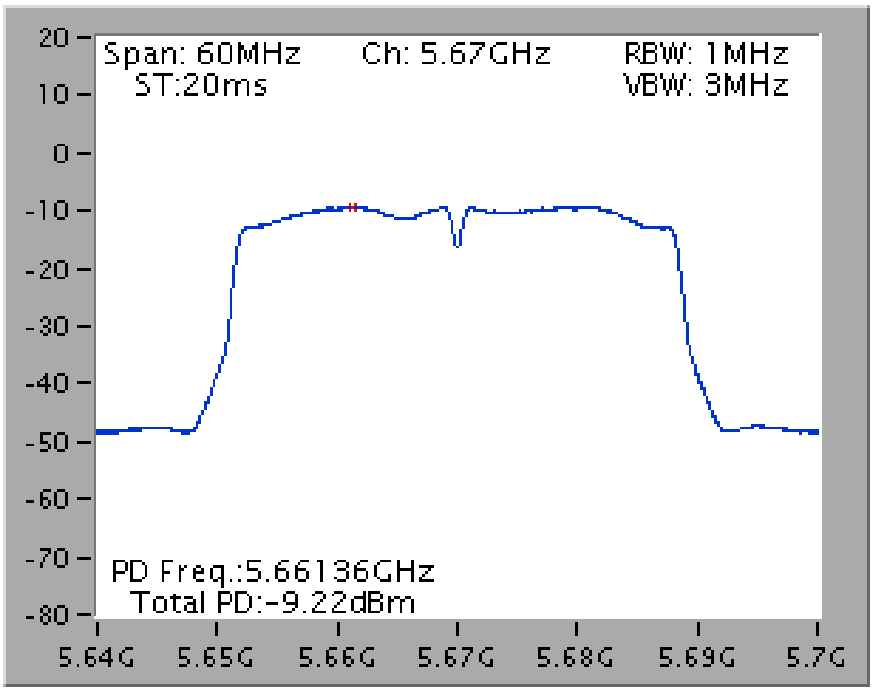
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5580 MHz



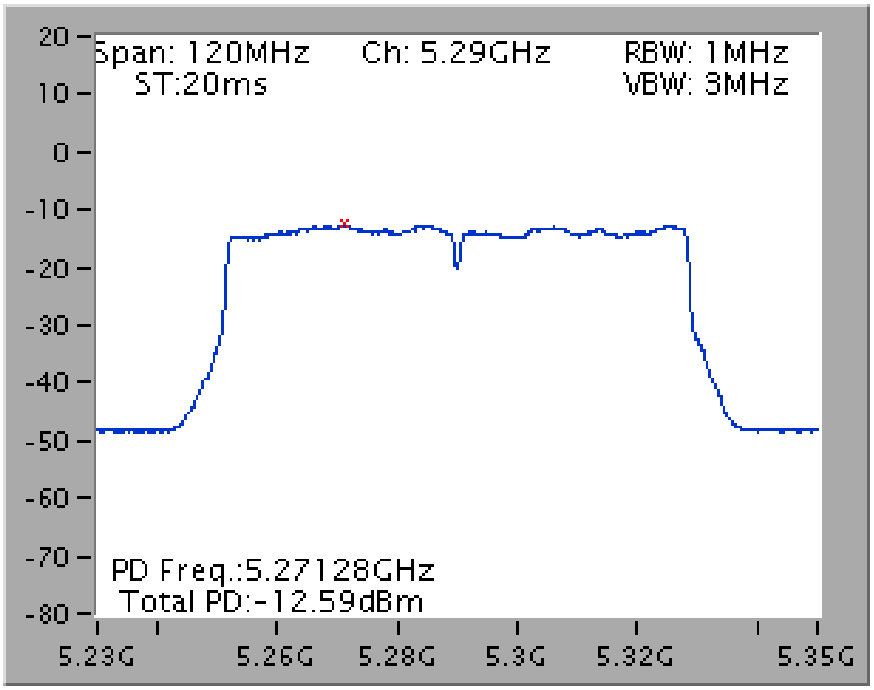
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5310 MHz



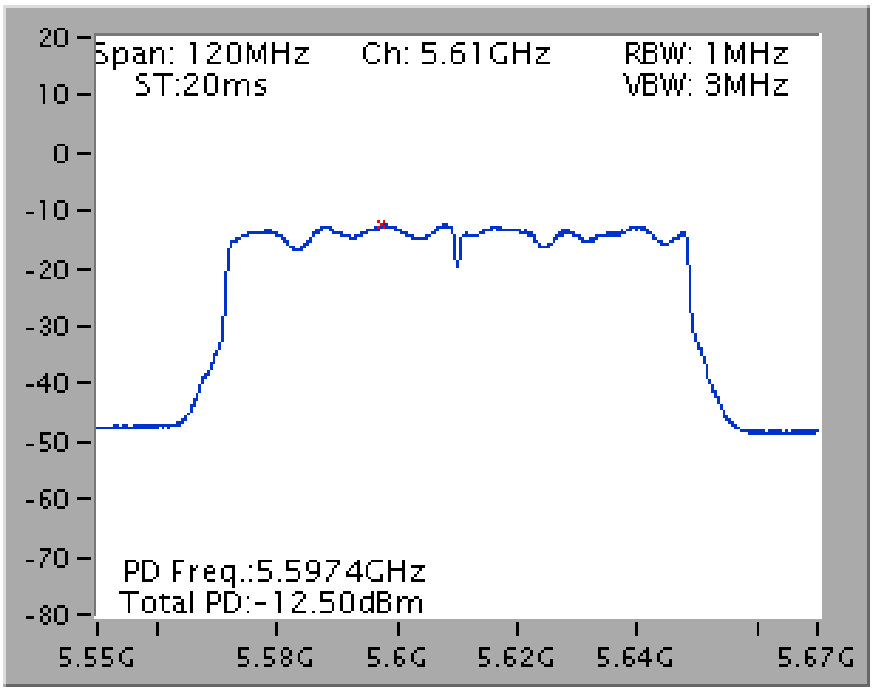
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5670 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz

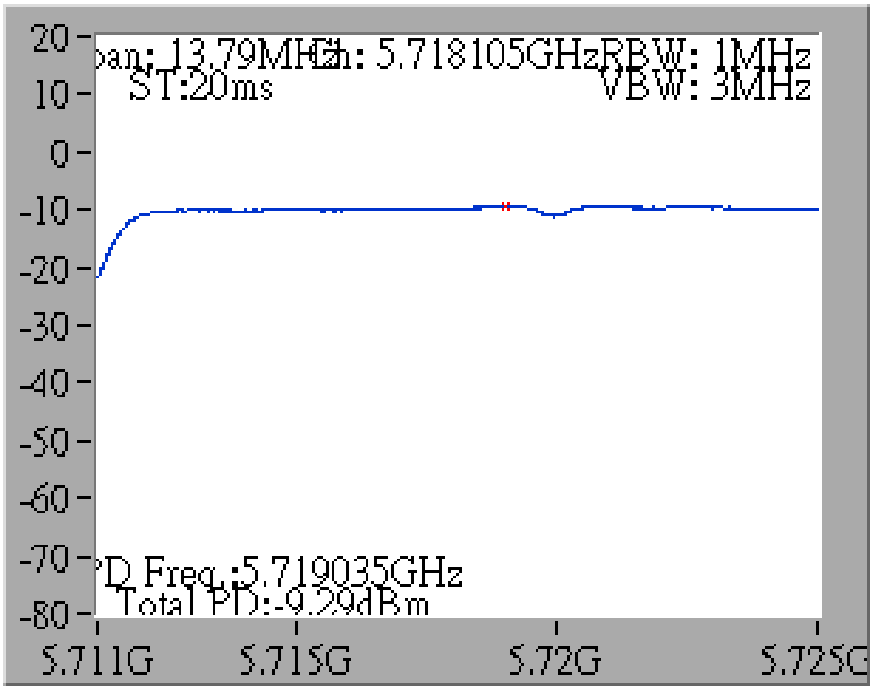


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5610 MHz

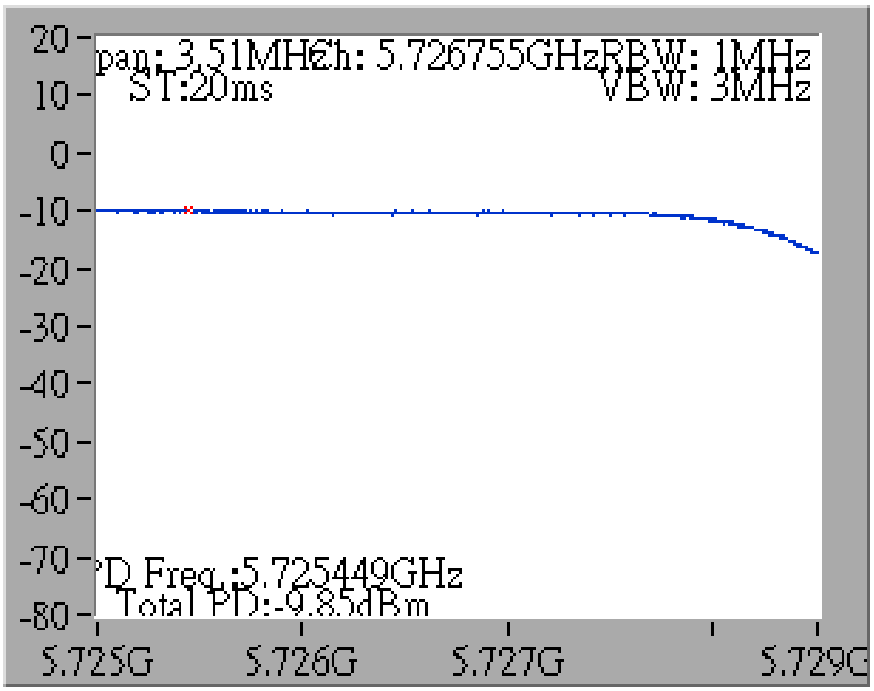


Straddle Channel

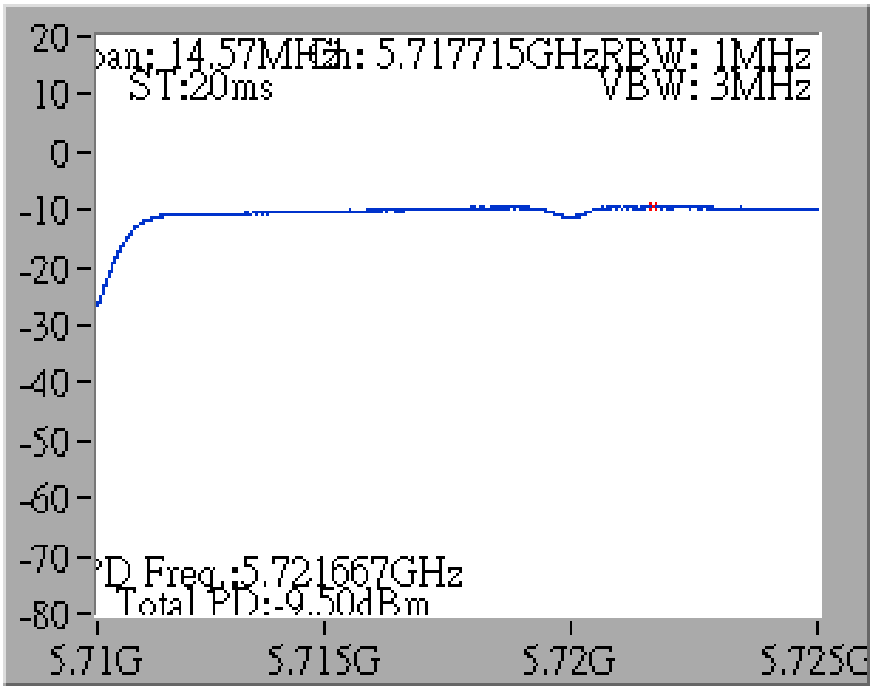
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



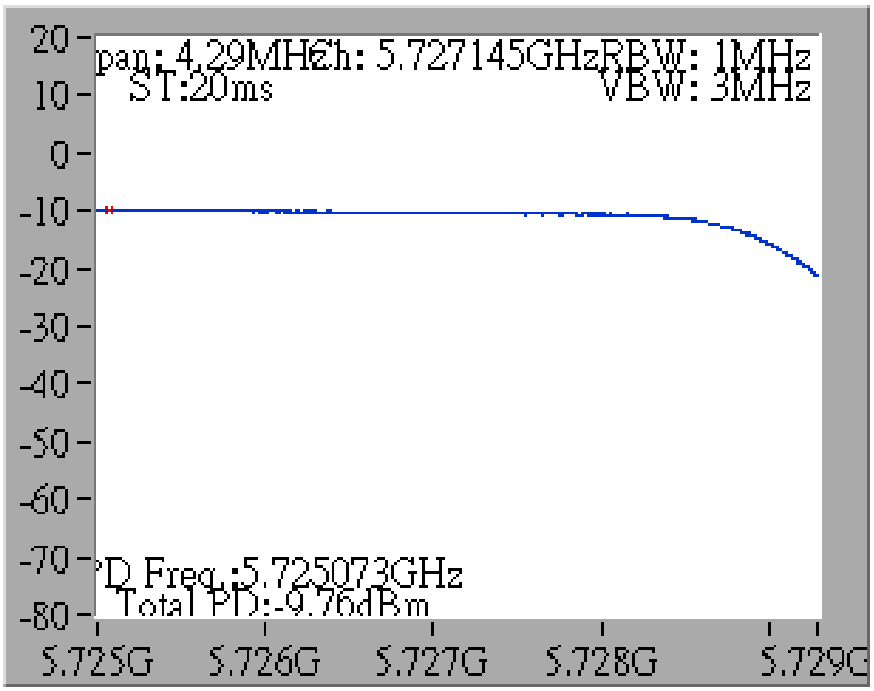
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



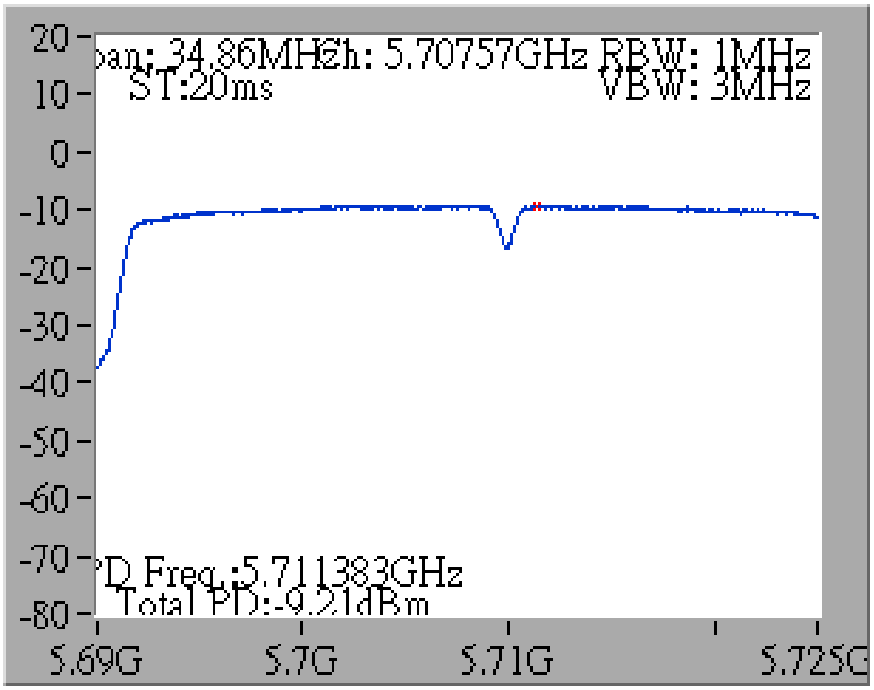
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



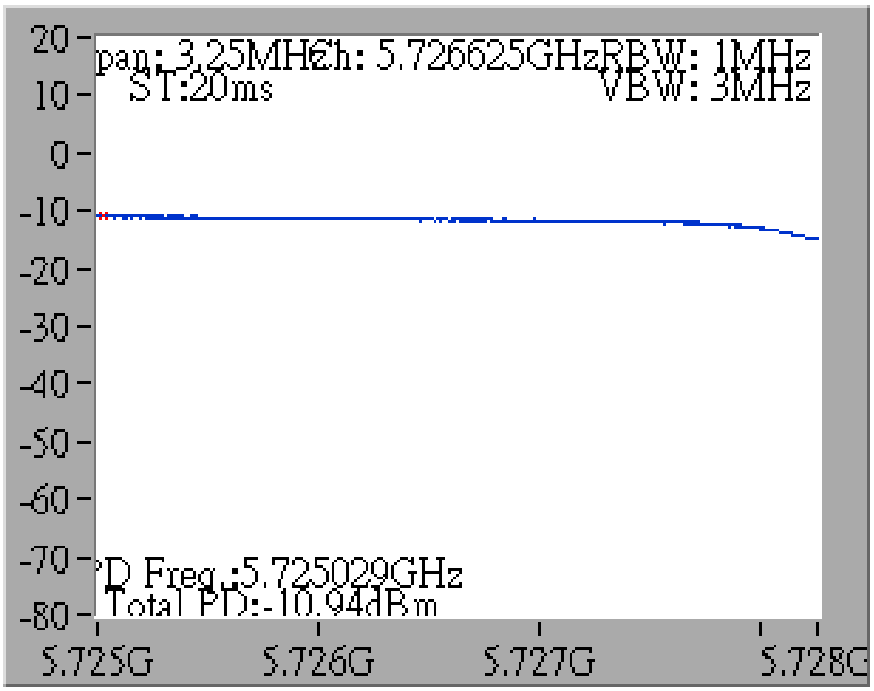
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



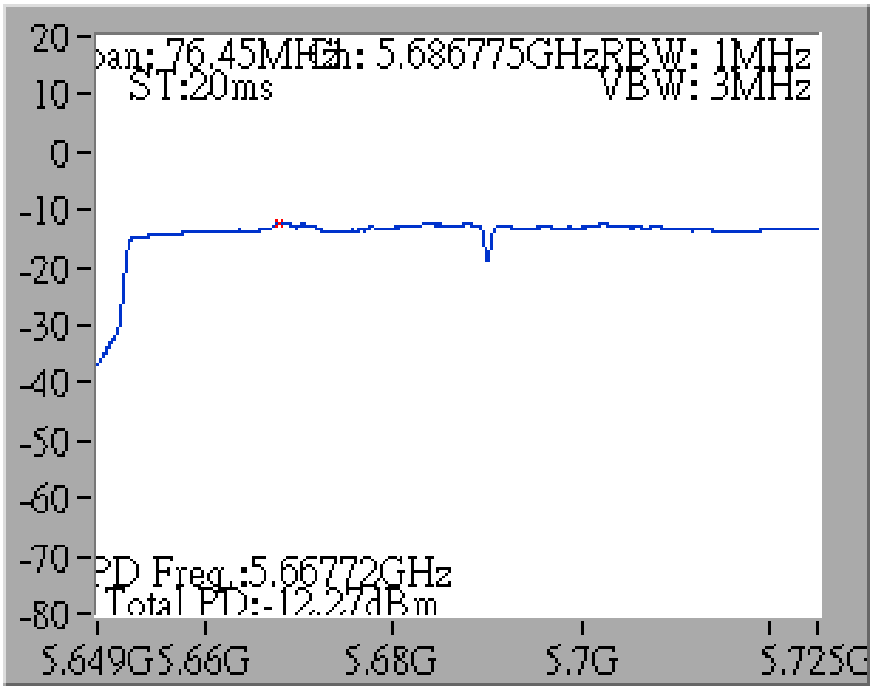
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



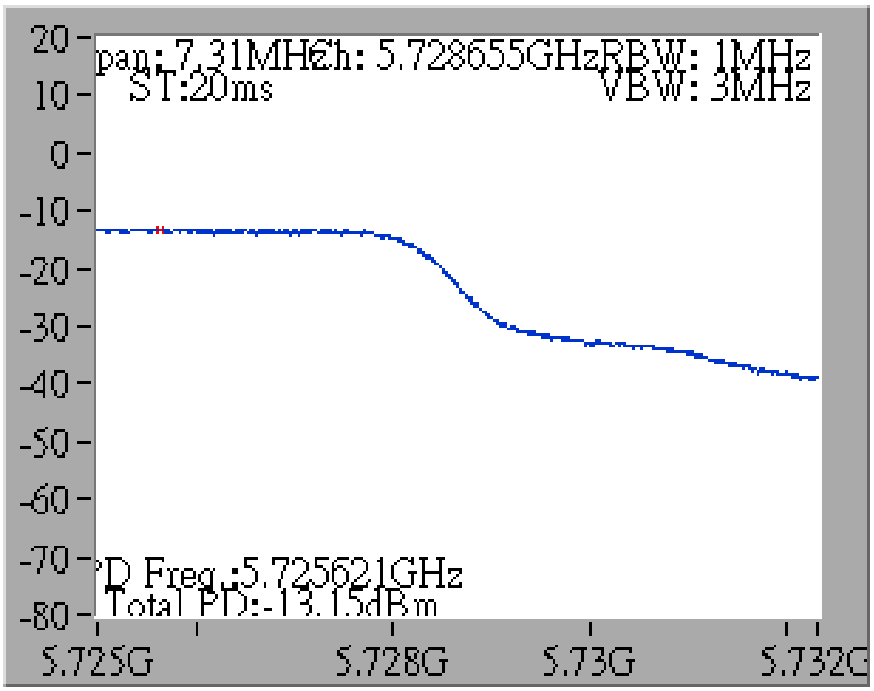
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

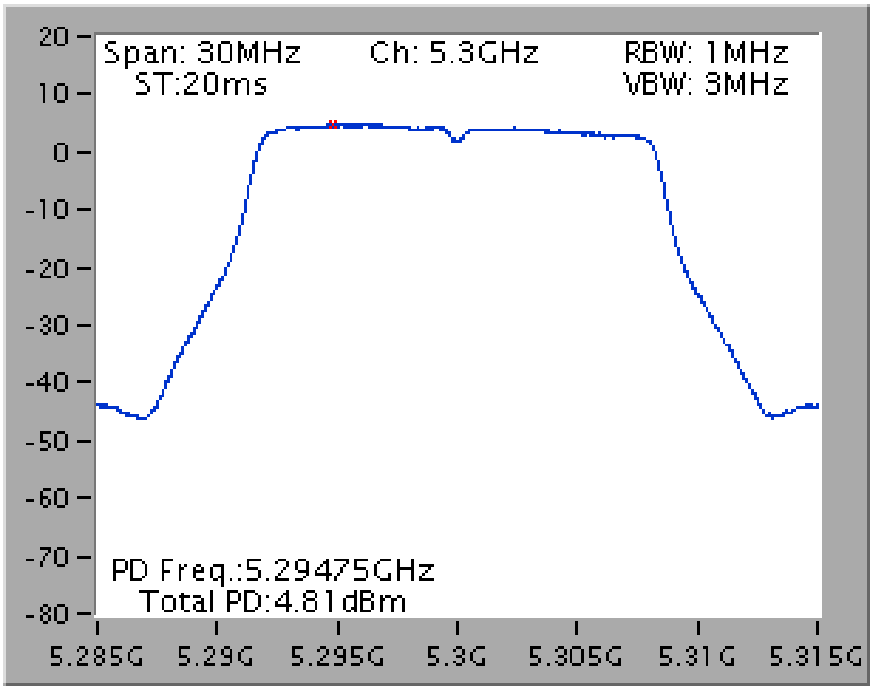


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)

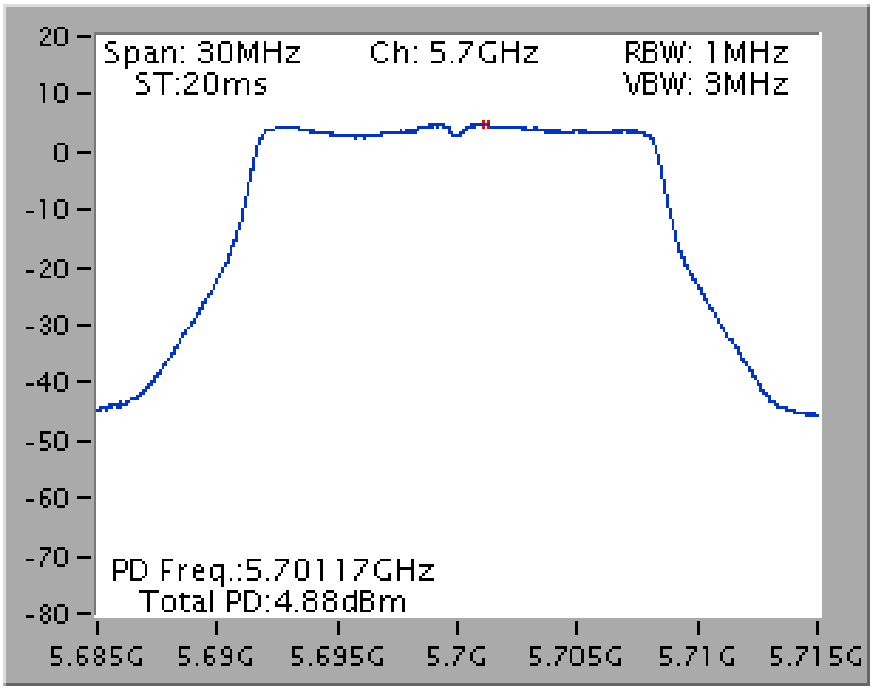


Mode 10: EUT 1 + Set 11 Omni Antenna / 6 dBi

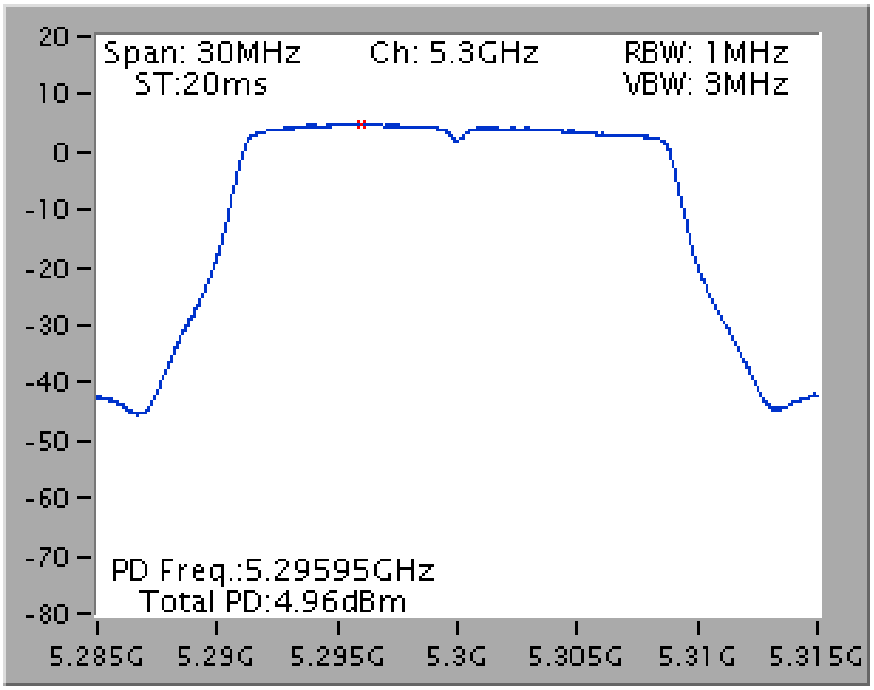
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5300 MHz



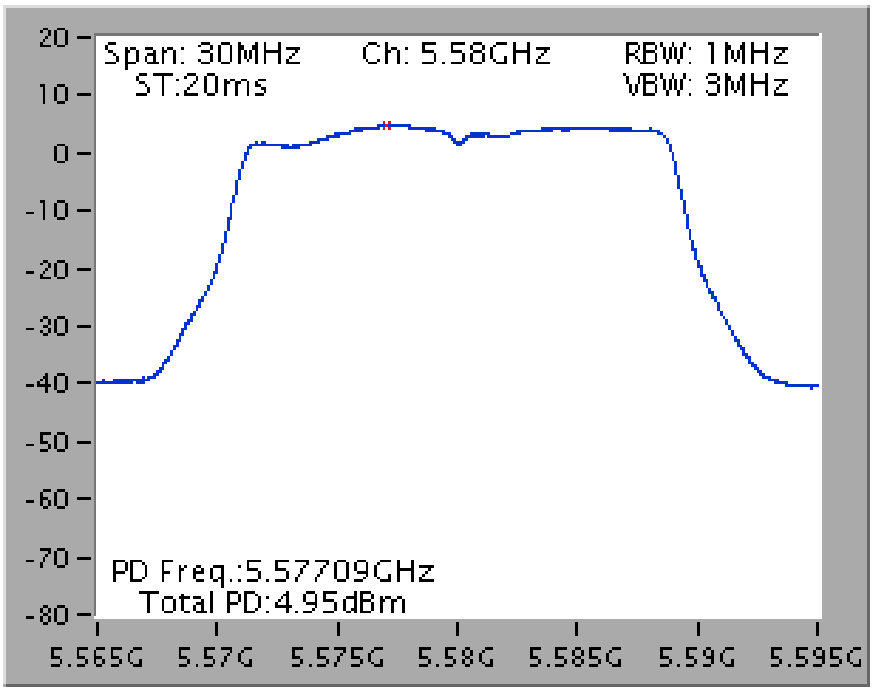
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5700 MHz



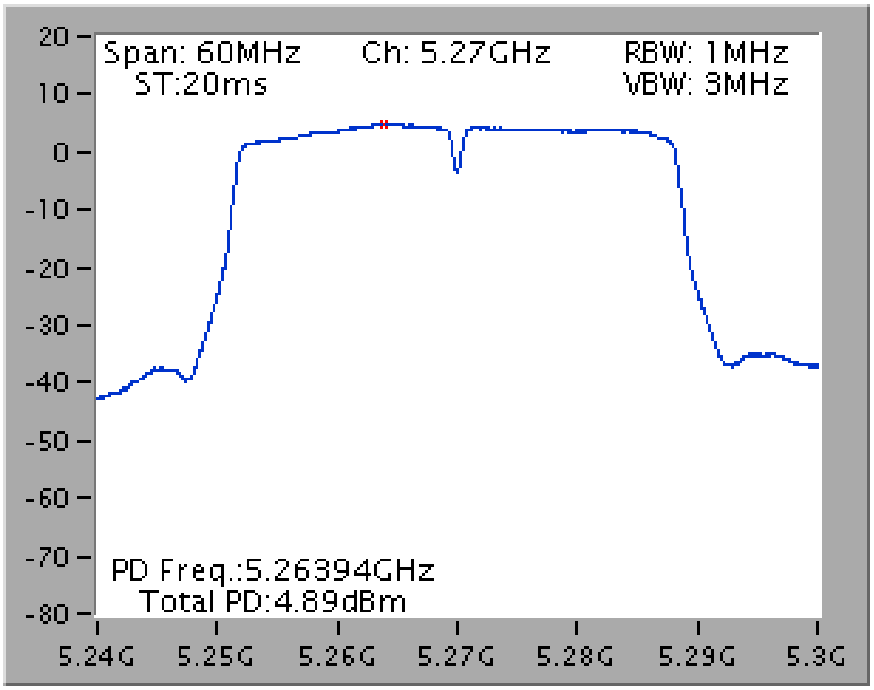
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5300 MHz



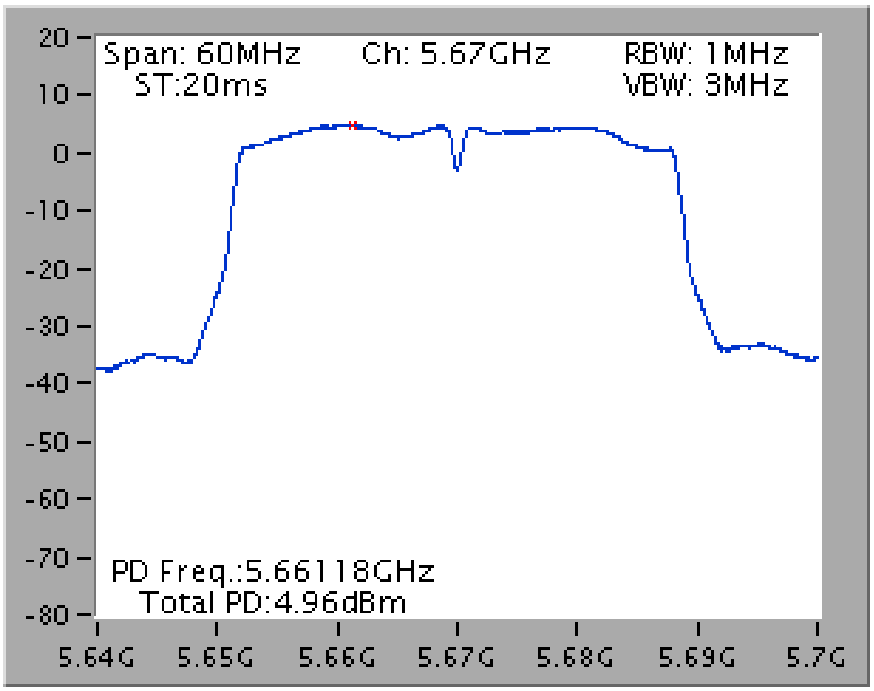
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5580 MHz



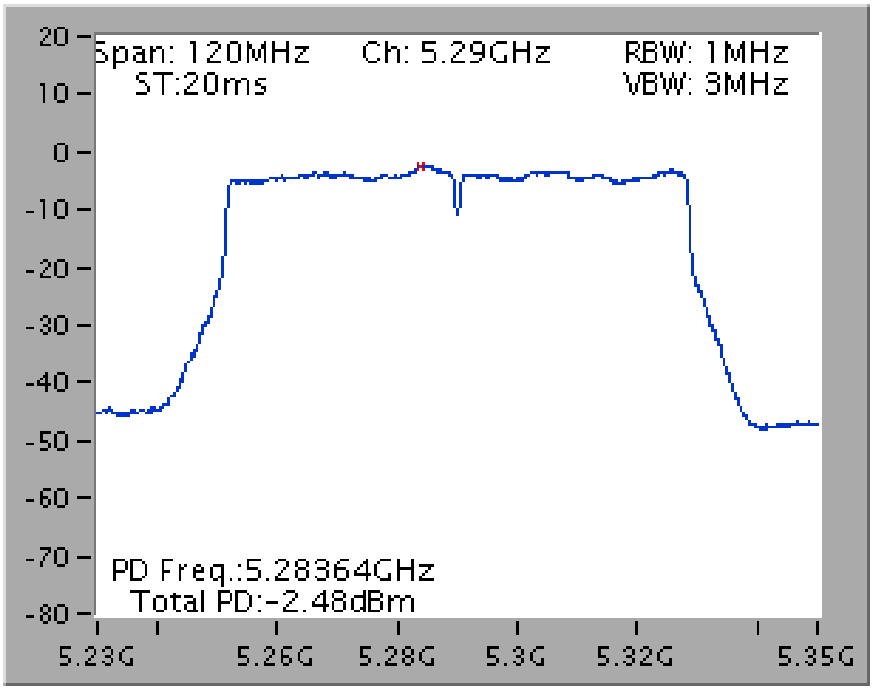
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5270 MHz



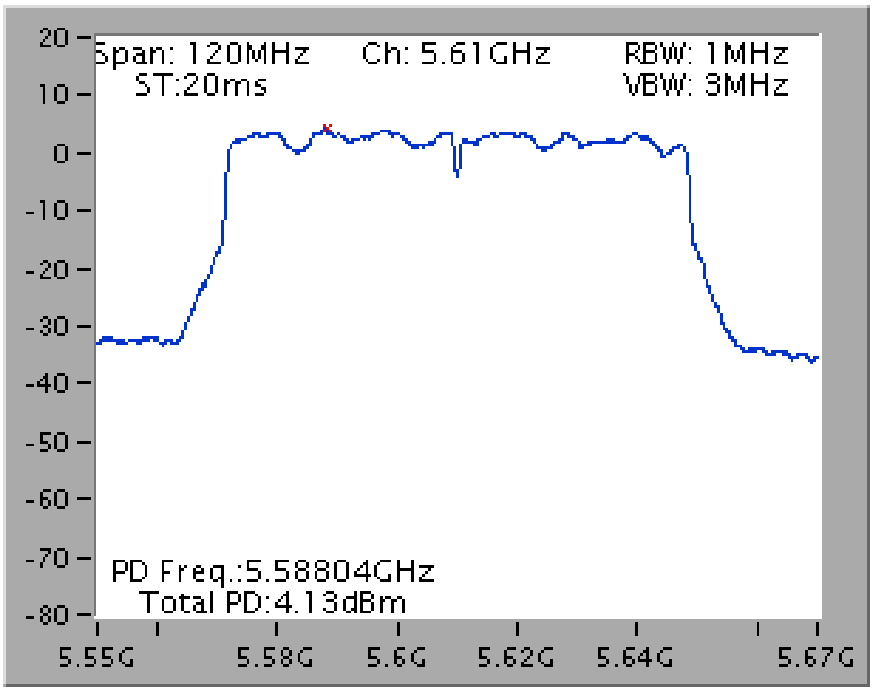
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5670 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz

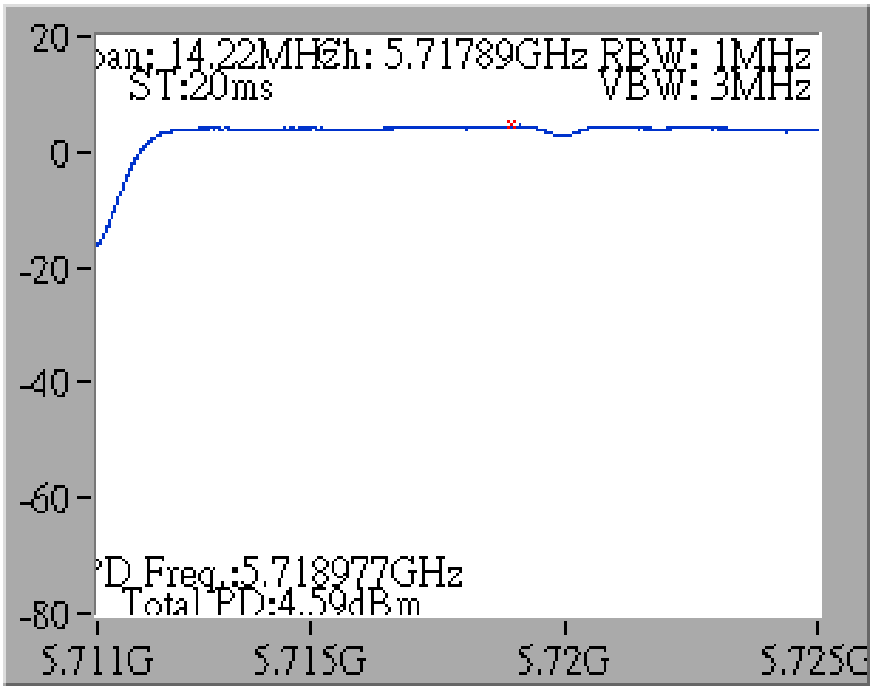


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5610 MHz

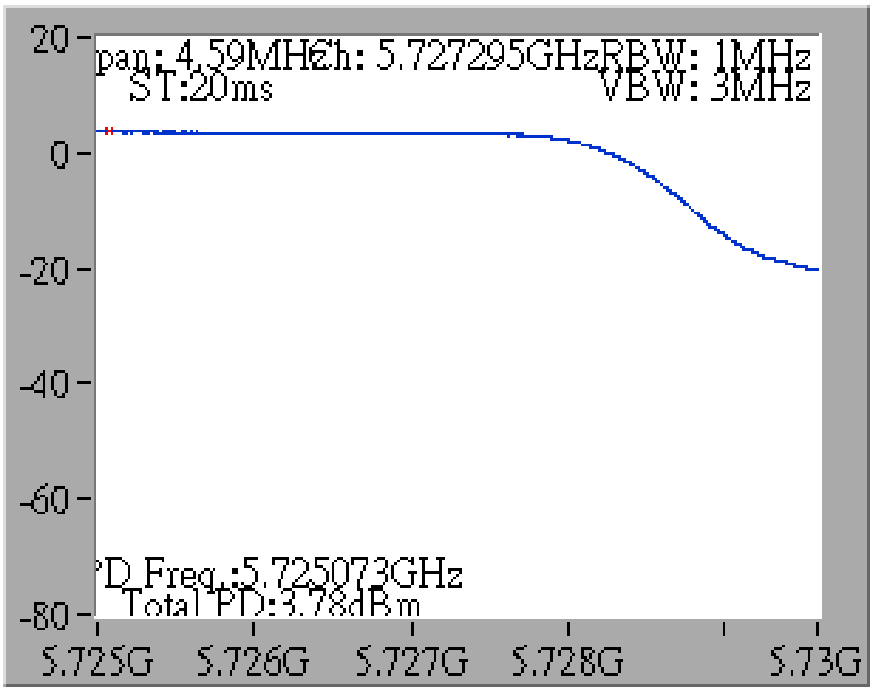


Straddle Channel

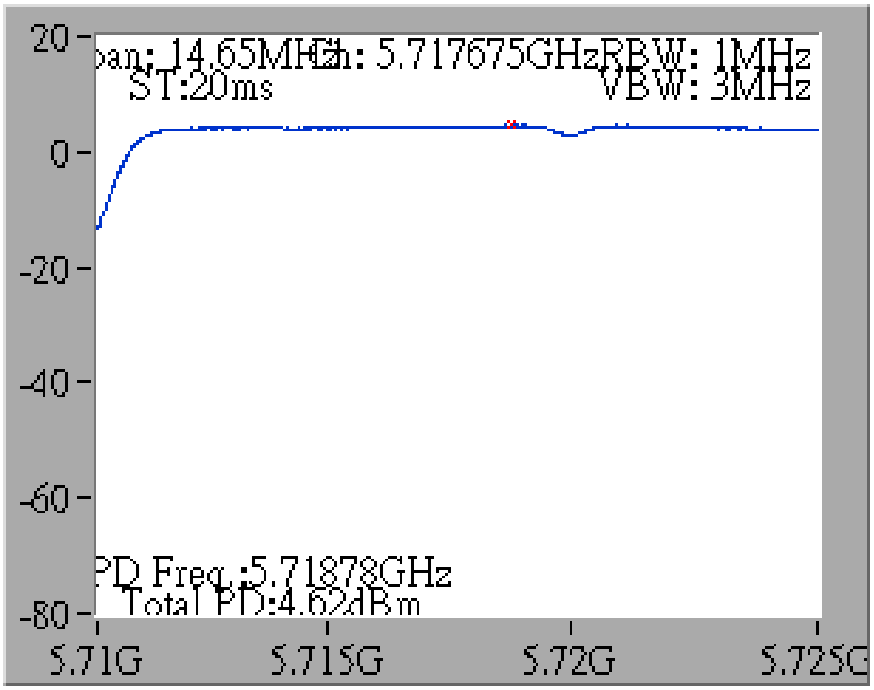
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



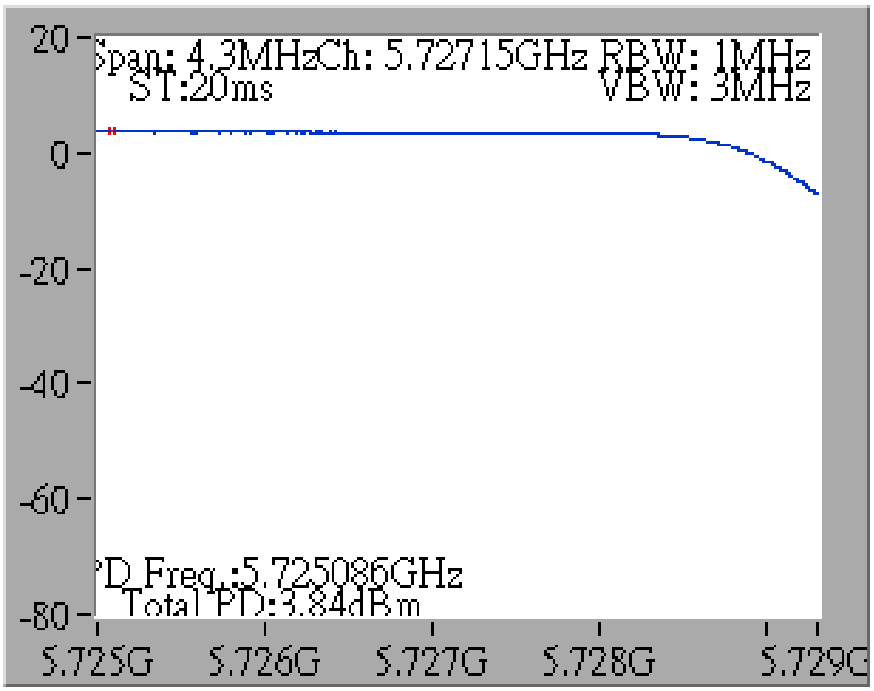
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



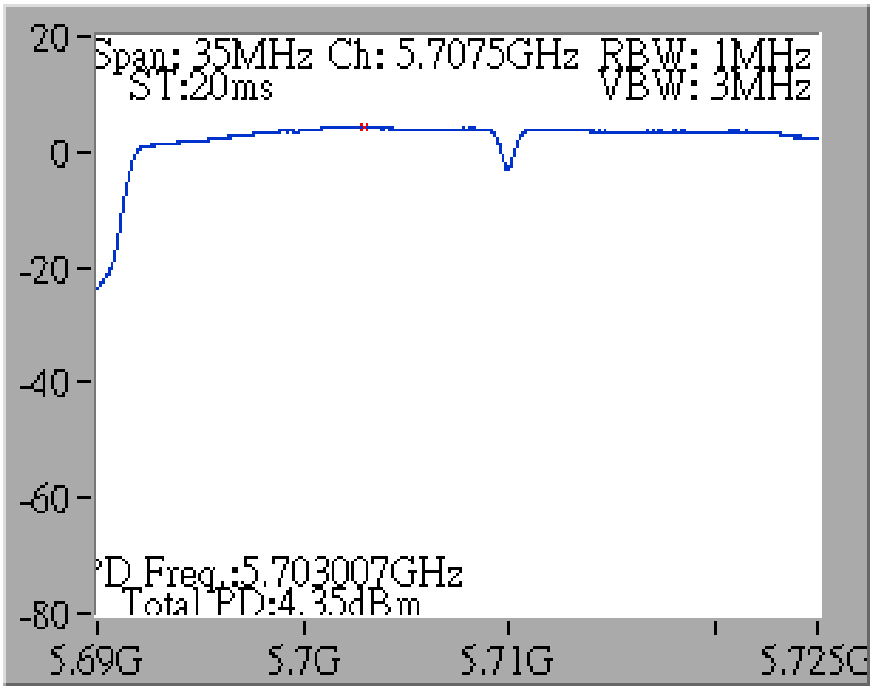
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



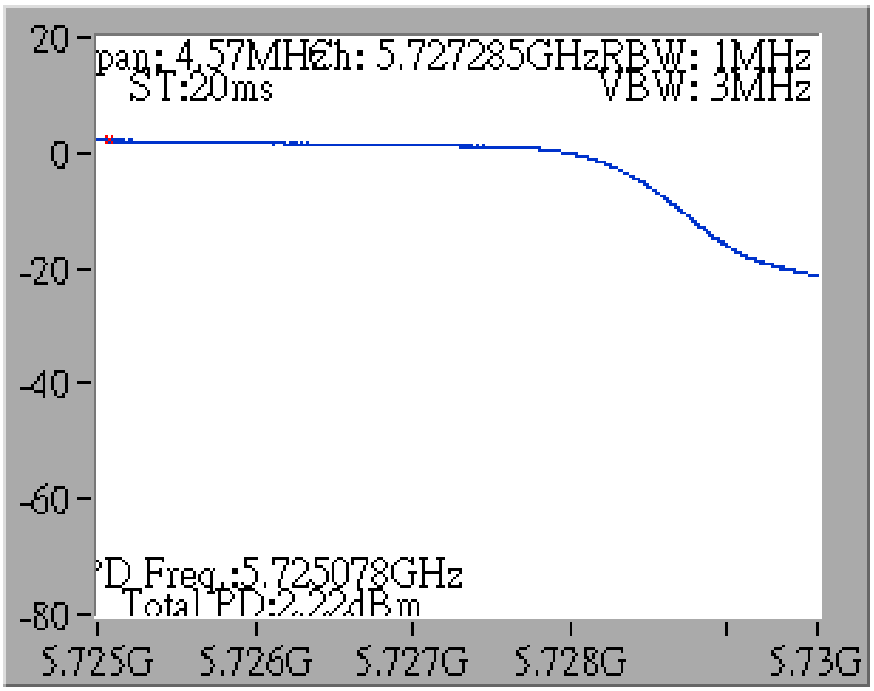
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



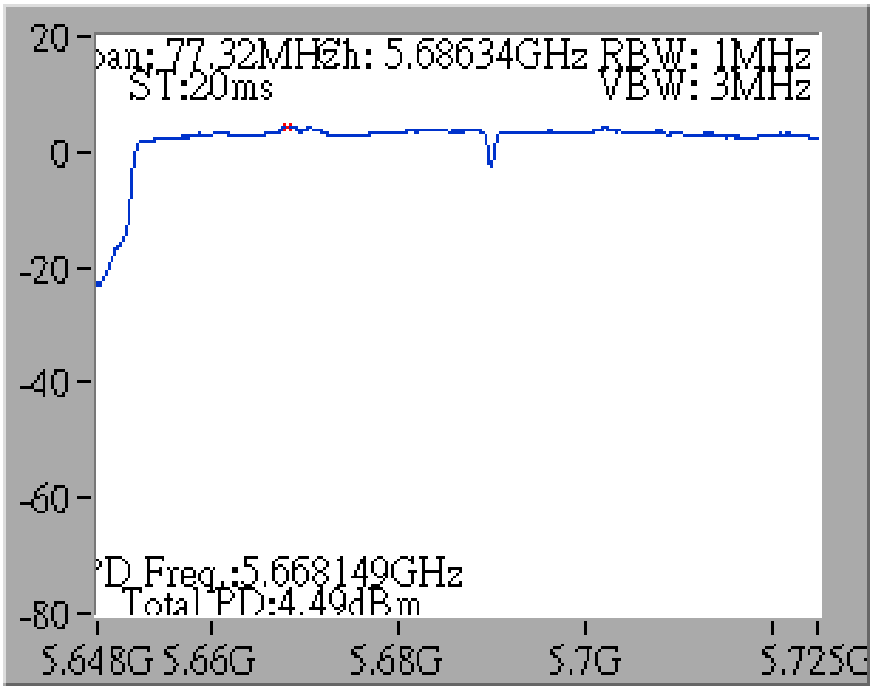
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



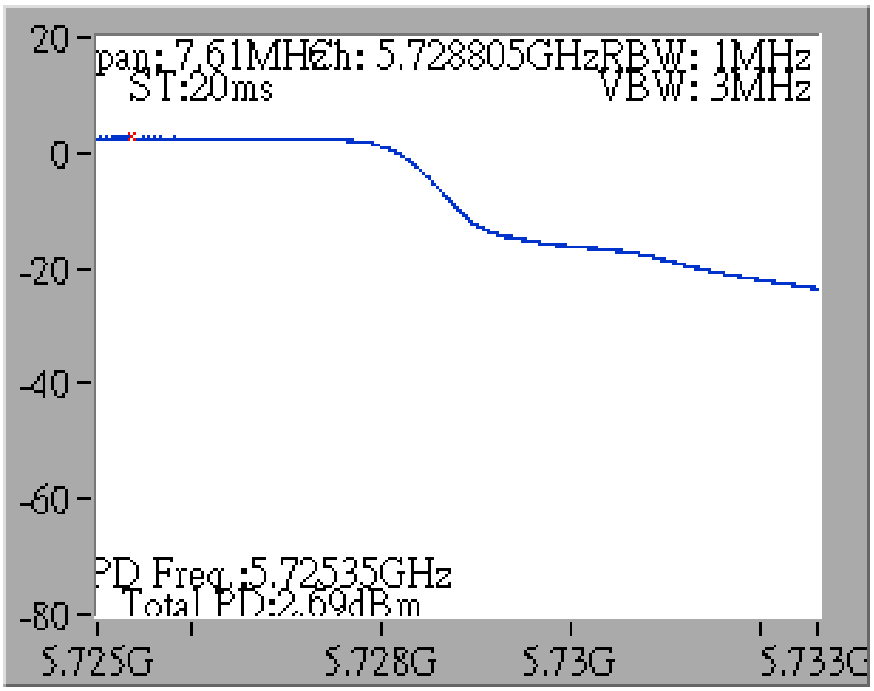
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

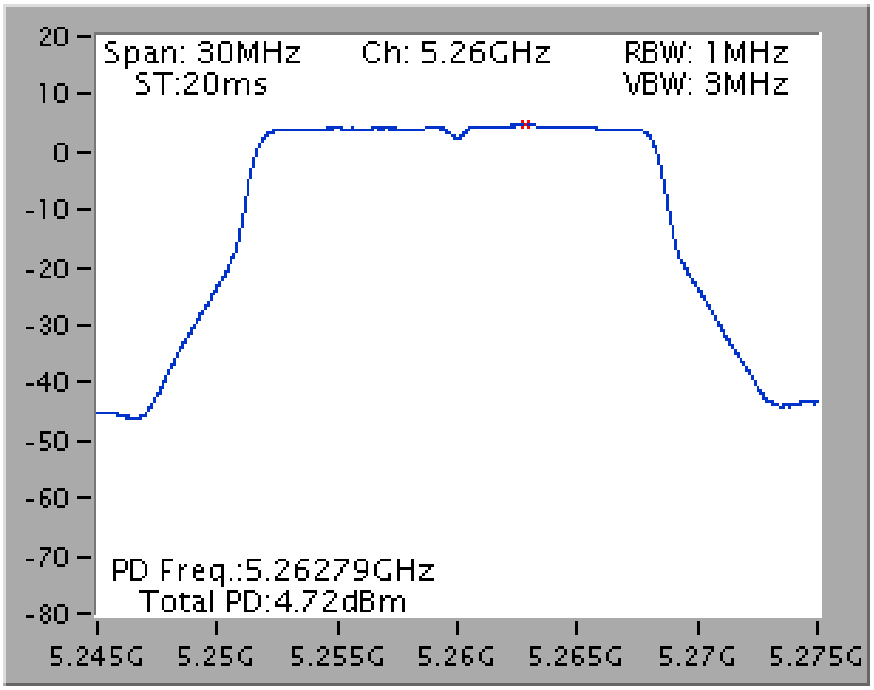


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)

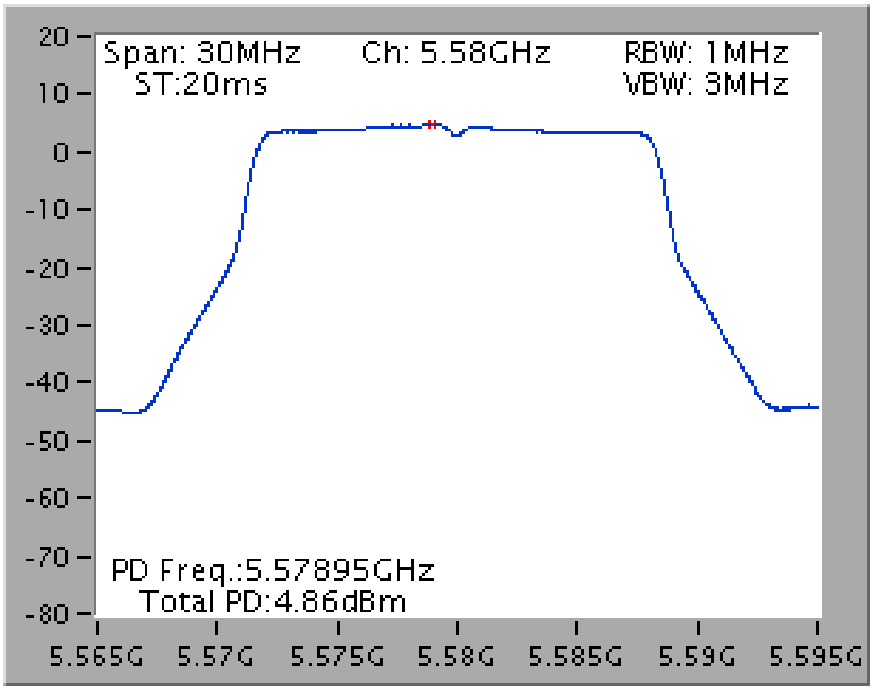


Mode 11: EUT 2 + Set 12 PIFA Antenna / Chain1:5.96 dBi, Chain2:5.97 dBi, Chain3:6.25 dBi, Chain4:6.08 dBi

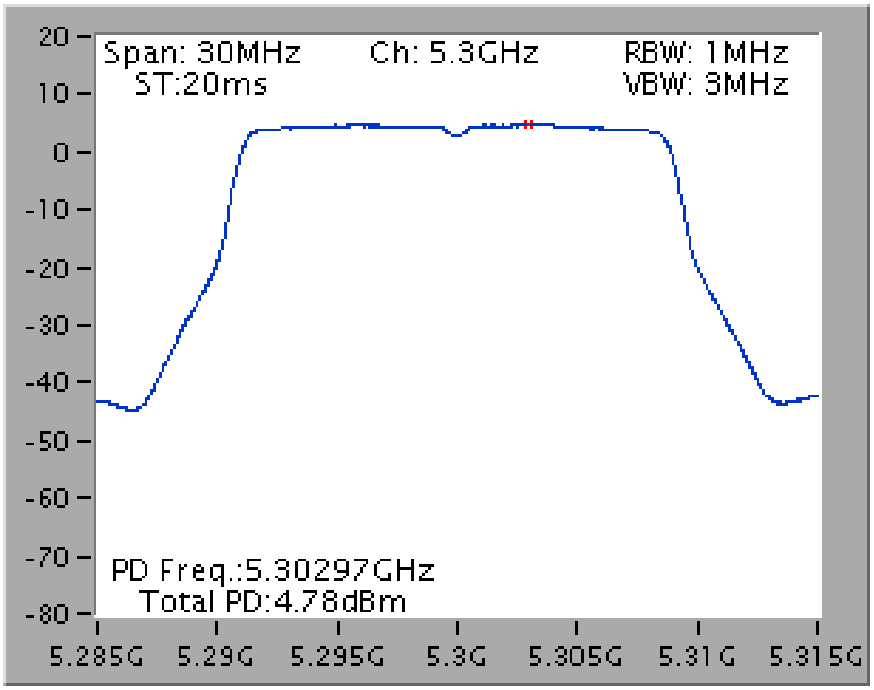
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5260 MHz



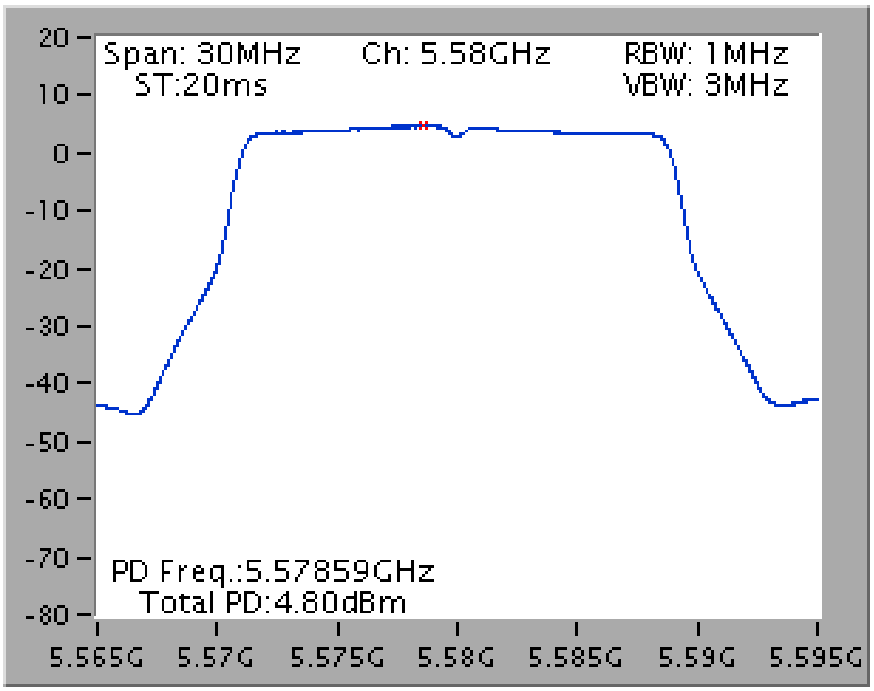
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5580 MHz



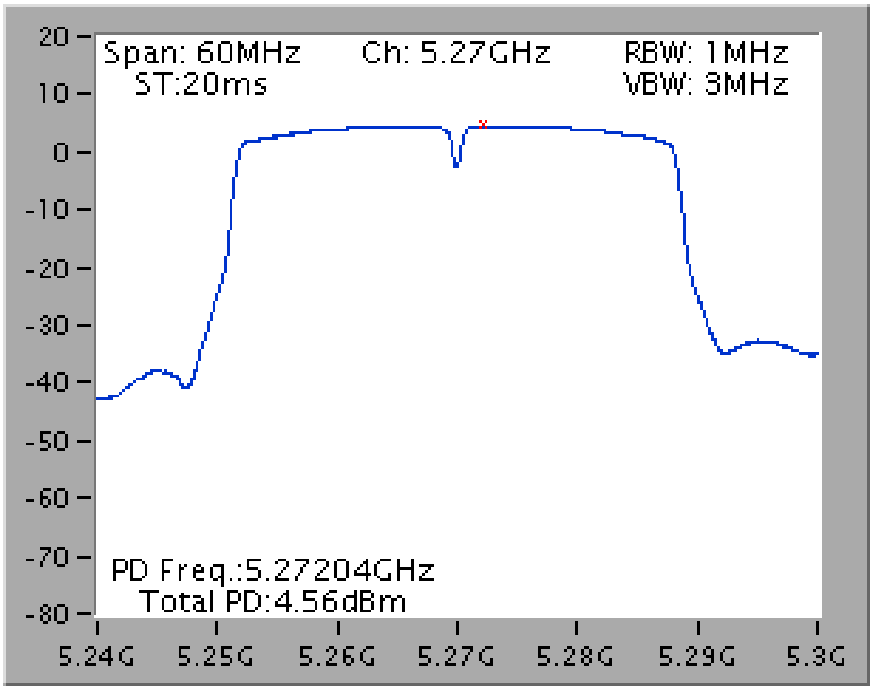
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5300 MHz



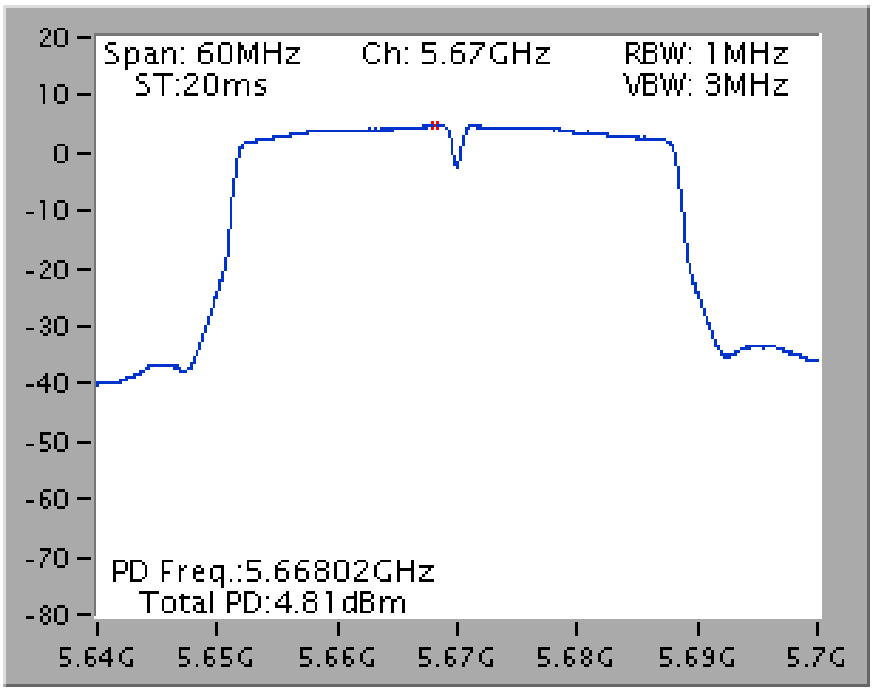
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5580 MHz



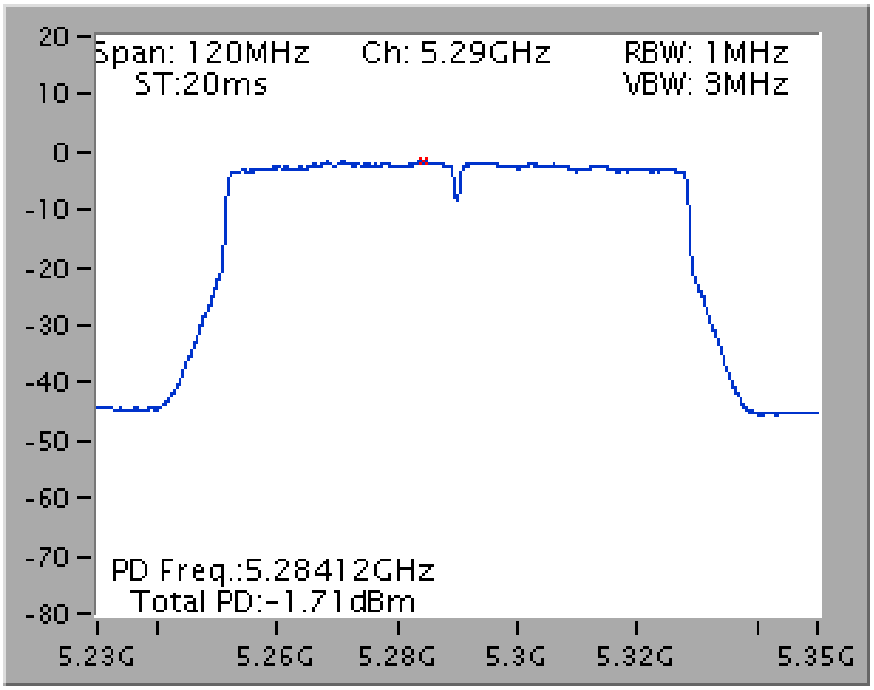
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5270 MHz



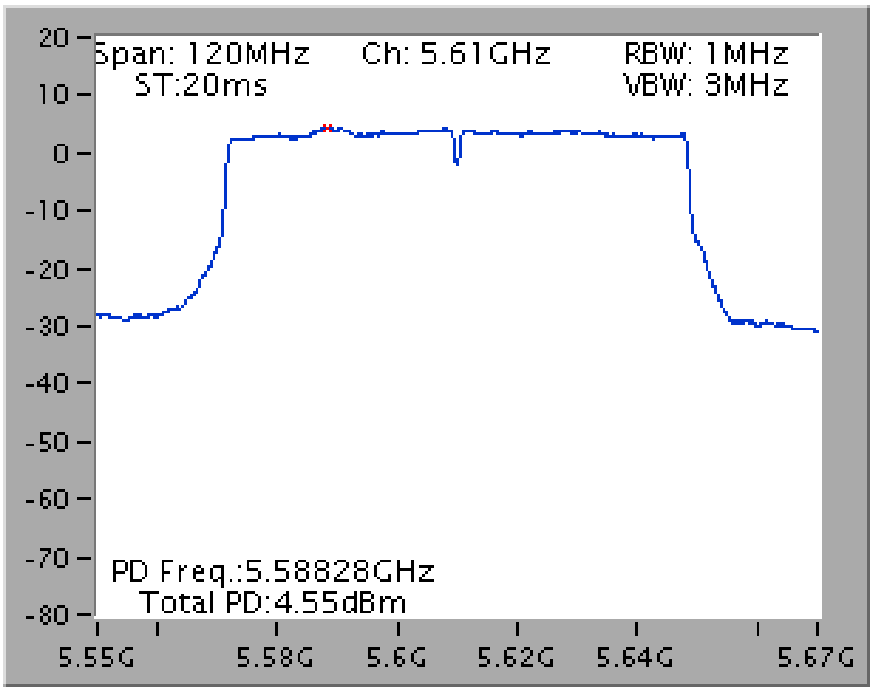
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5670 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz

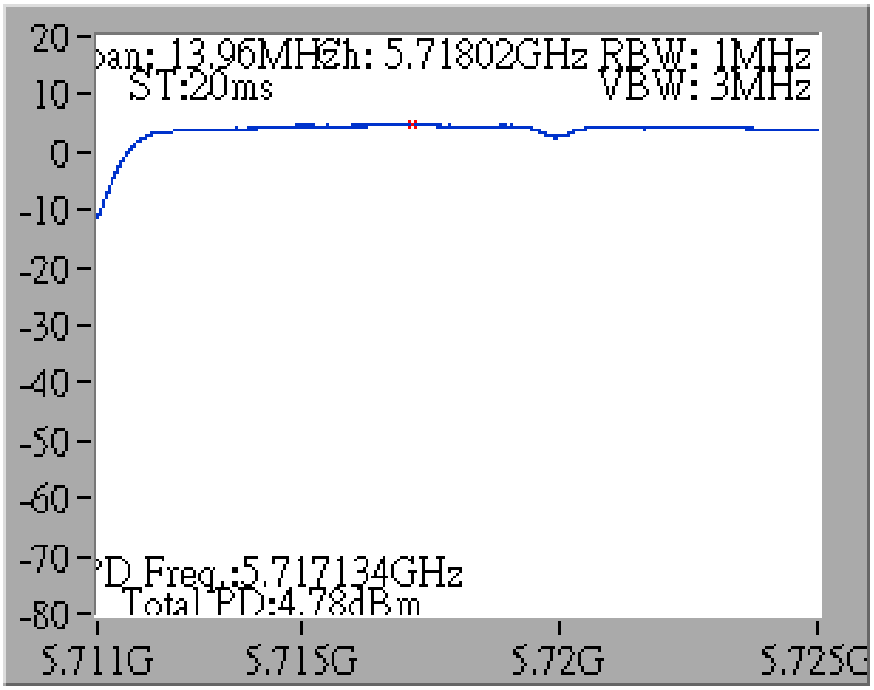


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5610 MHz

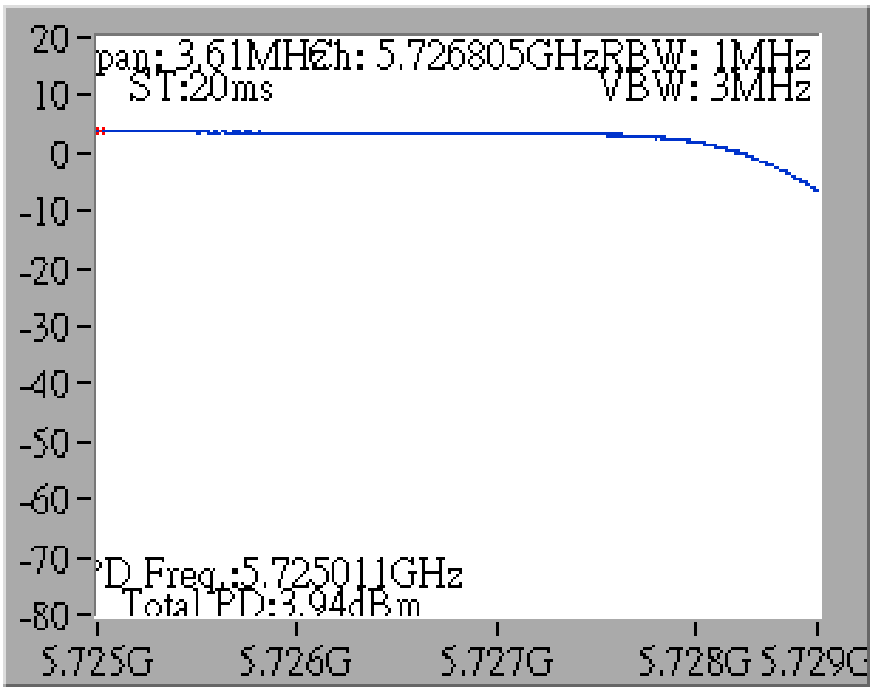


Straddle Channel

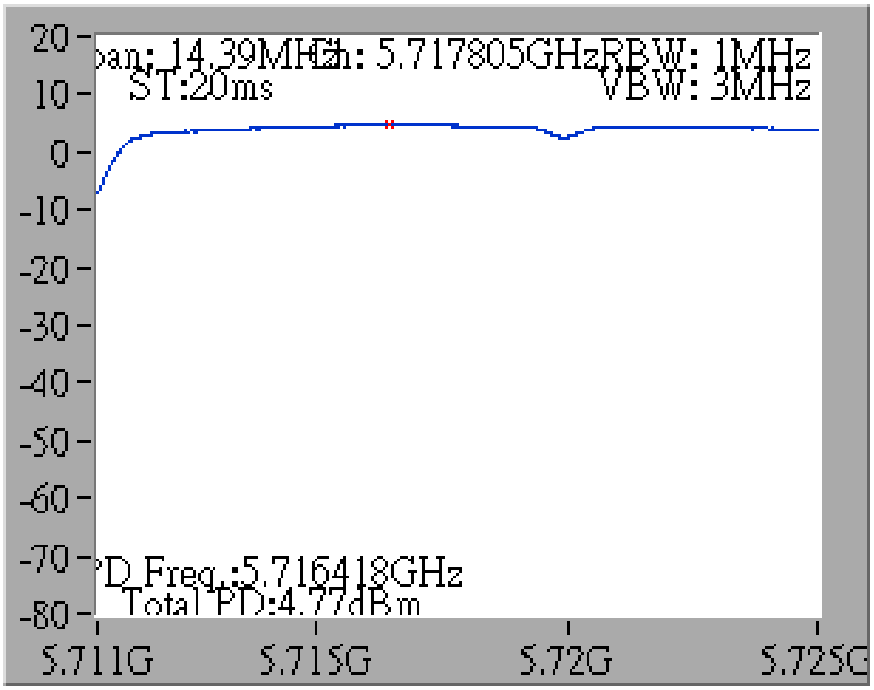
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



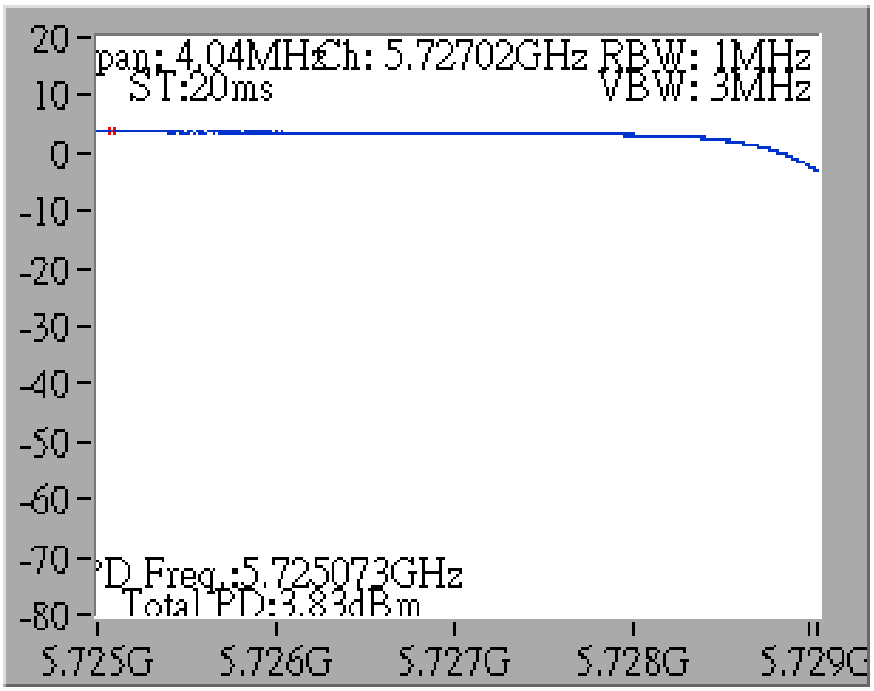
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



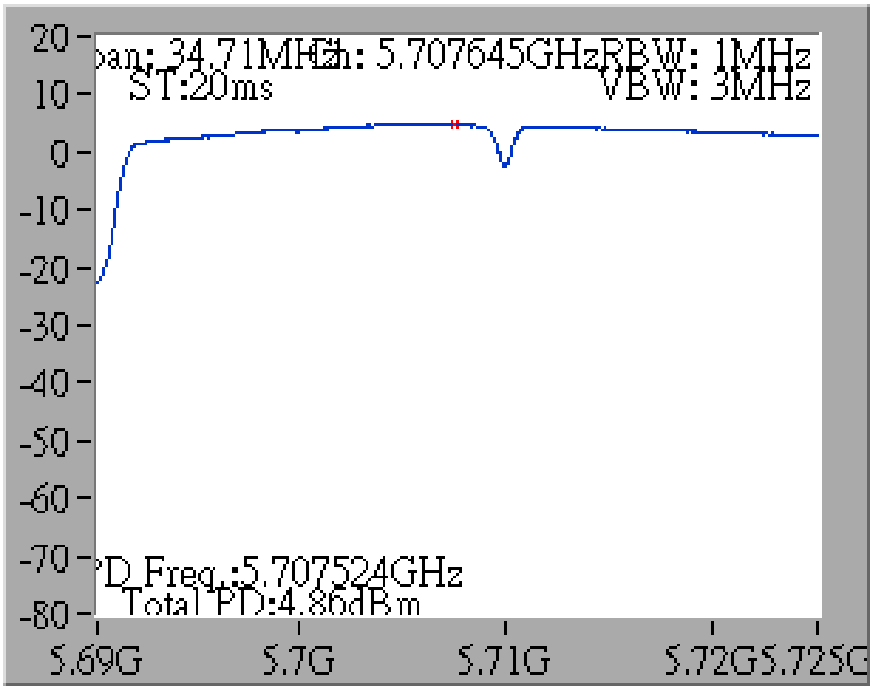
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



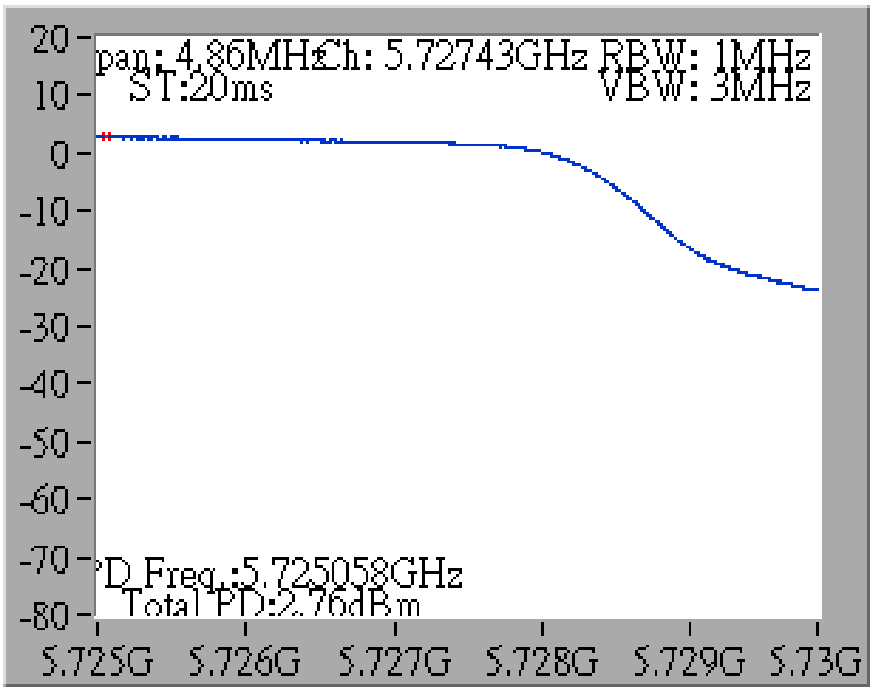
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



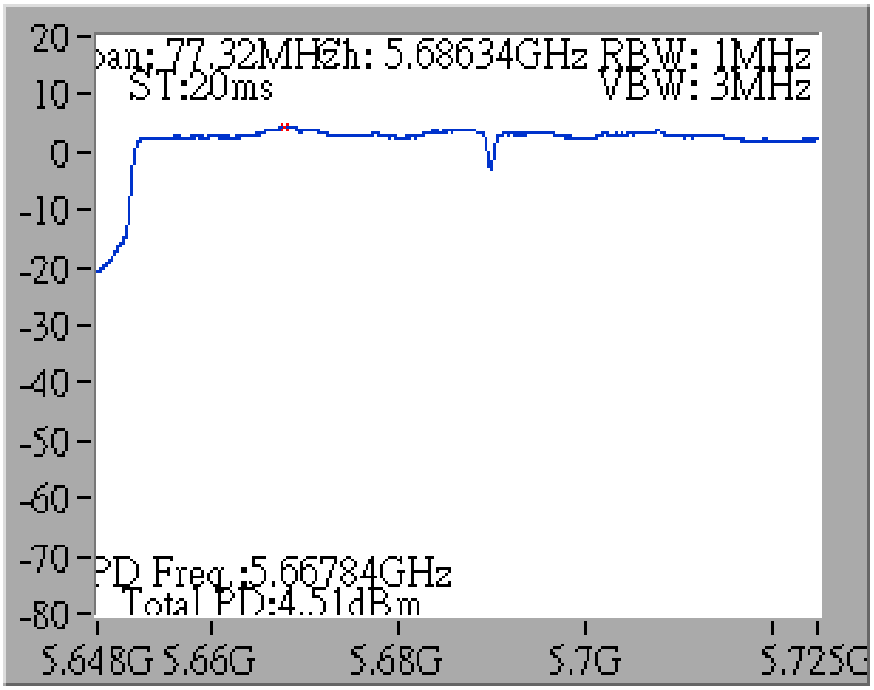
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



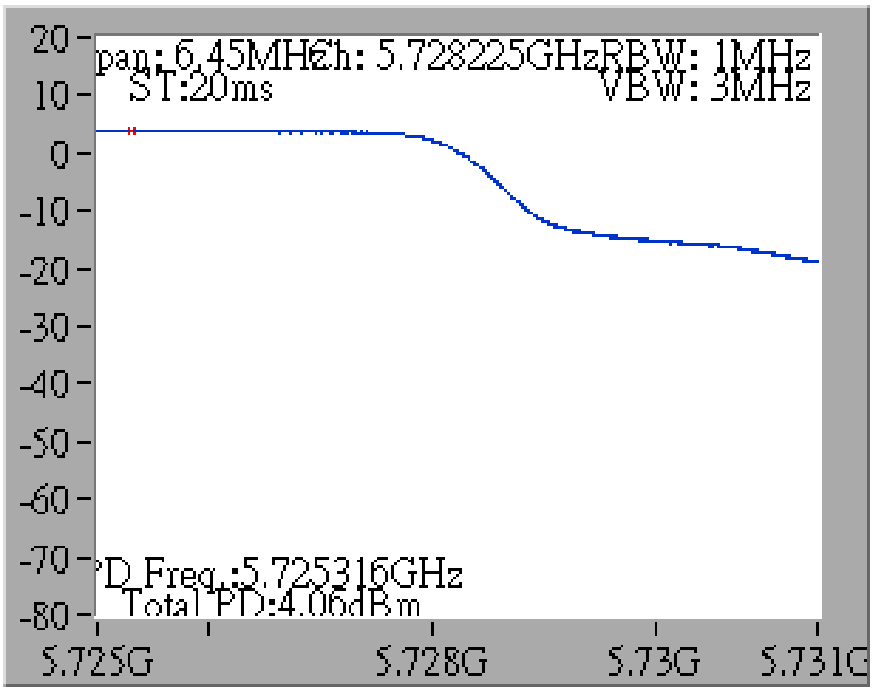
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)



4.5. Radiated Emissions Measurement

4.5.1. Limit

For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

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

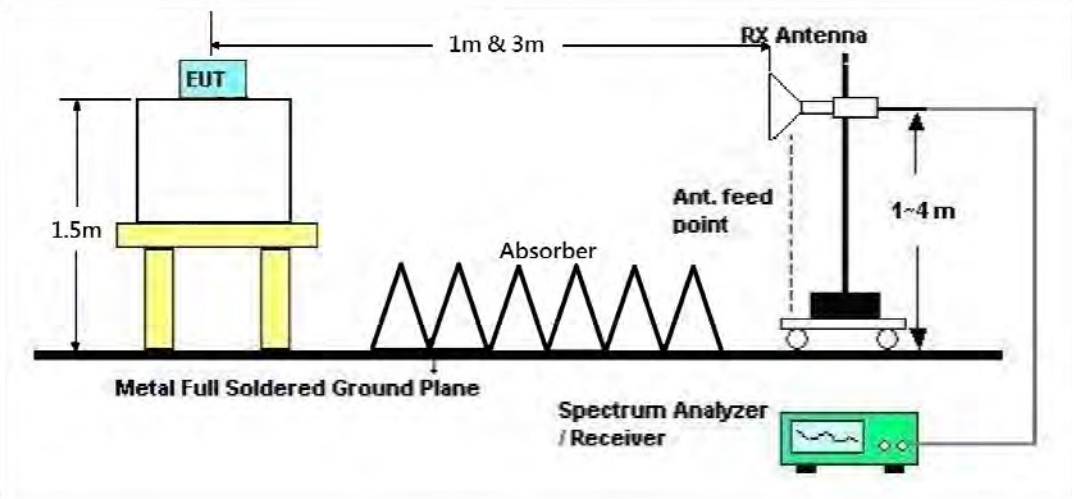
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

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

4.5.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15784.14	60.93	74.00	-13.07	44.45	14.44	37.69	35.65	162	36	Peak	HORIZONTAL
2	15784.54	47.56	54.00	-6.44	31.08	14.44	37.69	35.65	162	36	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15776.20	47.69	54.00	-6.31	31.15	14.43	37.76	35.65	148	230	Average	VERTICAL
2	15784.34	60.85	74.00	-13.15	44.37	14.44	37.69	35.65	148	230	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15904.50	47.89	54.00	-6.11	31.53	14.48	37.55	35.67	155	298	Average	HORIZONTAL
2	15905.00	61.24	74.00	-12.76	44.88	14.48	37.55	35.67	155	298	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15903.98	60.90	74.00	-13.10	44.54	14.48	37.55	35.67	163	158	Peak	VERTICAL
2	15904.74	47.97	54.00	-6.03	31.61	14.48	37.55	35.67	163	158	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15955.82	48.23	54.00	-5.77	31.94	14.49	37.47	35.67	194	350	Average	HORIZONTAL
2	15956.56	61.17	74.00	-12.83	44.88	14.49	37.47	35.67	194	350	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15955.04	61.25	74.00	-12.75	44.96	14.49	37.47	35.67	159	138	Peak	VERTICAL
2	15955.34	48.25	54.00	-5.75	31.96	14.49	37.47	35.67	159	138	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.30	56.86	74.00	-17.14	41.35	12.18	38.40	35.07	158	181	Peak	HORIZONTAL
2	10997.36	43.54	54.00	-10.46	27.98	12.23	38.40	35.07	158	181	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.00	43.47	54.00	-10.53	27.96	12.18	38.40	35.07	163	254	Average	VERTICAL
2	10997.06	57.01	74.00	-16.99	41.45	12.23	38.40	35.07	163	254	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11160.98	58.72	74.00	-15.28	42.76	12.45	38.67	35.16	152	154	Peak	HORIZONTAL
2	11162.74	45.55	54.00	-8.45	29.59	12.45	38.67	35.16	152	154	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11158.72	57.82	74.00	-16.18	41.86	12.45	38.67	35.16	171	261	Peak	VERTICAL
2	11160.06	45.08	54.00	-8.92	29.12	12.45	38.67	35.16	171	261	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11395.58	44.96	54.00	-9.04	28.44	12.77	39.04	35.29	189	221	Average	HORIZONTAL
2	11399.02	58.32	74.00	-15.68	41.82	12.77	39.04	35.31	189	221	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11396.08	57.75	74.00	-16.25	41.23	12.77	39.04	35.29	152	102	Peak	VERTICAL
2	11398.40	45.12	54.00	-8.88	28.62	12.77	39.04	35.31	152	102	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15776.26	47.53	54.00	-6.47	30.99	14.43	37.76	35.65	152	180	Average	HORIZONTAL
2	15779.80	60.91	74.00	-13.09	44.37	14.43	37.76	35.65	152	180	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15776.62	60.52	74.00	-13.48	43.98	14.43	37.76	35.65	123	253	Peak	VERTICAL
2	15783.44	47.52	54.00	-6.48	31.04	14.44	37.69	35.65	123	253	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15896.58	47.71	54.00	-6.29	31.35	14.48	37.55	35.67	157	236	Average	HORIZONTAL
2	15900.94	60.68	74.00	-13.32	44.32	14.48	37.55	35.67	157	236	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15898.36	61.08	74.00	-12.92	44.72	14.48	37.55	35.67	150	84	Peak	VERTICAL
2	15898.86	47.86	54.00	-6.14	31.50	14.48	37.55	35.67	150	84	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15960.50	48.38	54.00	-5.62	32.09	14.49	37.47	35.67	171	295	Average	HORIZONTAL
2	15960.86	61.27	74.00	-12.73	44.98	14.49	37.47	35.67	171	295	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15955.34	48.28	54.00	-5.72	31.99	14.49	37.47	35.67	199	107	Average	VERTICAL
2	15963.16	60.68	74.00	-13.32	44.39	14.49	37.47	35.67	199	107	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11001.49	39.08	54.00	-14.92	23.52	12.23	38.40	35.07	170	169	Average	HORIZONTAL
2	11003.84	52.38	74.00	-21.62	36.82	12.23	38.40	35.07	170	169	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11001.98	51.92	74.00	-22.08	36.36	12.23	38.40	35.07	158	81	Peak	VERTICAL
2	11002.97	38.94	54.00	-15.06	23.38	12.23	38.40	35.07	158	81	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11157.32	45.40	54.00	-8.60	29.44	12.45	38.67	35.16	160	86	Average	HORIZONTAL
2	11158.86	58.06	74.00	-15.94	42.10	12.45	38.67	35.16	160	86	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11156.14	57.59	74.00	-16.41	41.73	12.41	38.61	35.16	171	205	Peak	VERTICAL
2	11157.28	45.00	54.00	-9.00	29.04	12.45	38.67	35.16	171	205	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11395.70	45.91	54.00	-8.09	29.39	12.77	39.04	35.29	142	170	Average	HORIZONTAL
2	11404.00	57.44	74.00	-16.56	40.94	12.77	39.04	35.31	142	170	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11395.06	58.01	74.00	-15.99	41.49	12.77	39.04	35.29	156	85	Peak	VERTICAL
2	11401.10	44.90	54.00	-9.10	28.40	12.77	39.04	35.31	156	85	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15808.32	60.17	74.00	-13.83	43.69	14.44	37.69	35.65	152	276	Peak	HORIZONTAL
2	15811.72	47.50	54.00	-6.50	31.02	14.44	37.69	35.65	152	276	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15809.40	47.44	54.00	-6.56	30.96	14.44	37.69	35.65	165	184	Average	VERTICAL
2	15811.96	60.24	74.00	-13.76	43.76	14.44	37.69	35.65	165	184	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15925.38	61.25	74.00	-12.75	44.96	14.49	37.47	35.67	160	87	Peak	HORIZONTAL
2	15926.84	48.28	54.00	-5.72	31.99	14.49	37.47	35.67	160	87	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15929.68	61.06	74.00	-12.94	44.77	14.49	37.47	35.67	156	179	Peak	VERTICAL
2	15932.70	48.26	54.00	-5.74	31.97	14.49	37.47	35.67	156	179	Average	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11021.00	42.98	54.00	-11.02	27.42	12.23	38.40	35.07	139	147	Average	HORIZONTAL
2	11024.48	56.16	74.00	-17.84	40.60	12.23	38.40	35.07	139	147	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11016.92	56.64	74.00	-17.36	41.08	12.23	38.40	35.07	151	225	Peak	VERTICAL
2	11017.68	43.02	54.00	-10.98	27.46	12.23	38.40	35.07	151	225	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11096.50	44.21	54.00	-9.79	28.40	12.36	38.56	35.11	145	239	Average	HORIZONTAL
2	11098.12	57.23	74.00	-16.77	41.42	12.36	38.56	35.11	145	239	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11095.90	44.22	54.00	-9.78	28.41	12.36	38.56	35.11	138	149	Average	VERTICAL
2	11098.54	57.18	74.00	-16.82	41.37	12.36	38.56	35.11	138	149	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11342.42	44.77	54.00	-9.23	28.42	12.68	38.93	35.26	160	174	Average	HORIZONTAL
2	11344.16	57.52	74.00	-16.48	41.17	12.68	38.93	35.26	160	174	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11338.46	57.99	74.00	-16.01	41.64	12.68	38.93	35.26	189	242	Peak	VERTICAL
2	11342.30	44.90	54.00	-9.10	28.55	12.68	38.93	35.26	189	242	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15873.18	60.05	74.00	-13.95	43.64	14.46	37.62	35.67	167	3	Peak	HORIZONTAL
2	15874.84	47.53	54.00	-6.47	31.17	14.48	37.55	35.67	167	3	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15865.02	60.65	74.00	-13.35	44.23	14.46	37.62	35.66	167	132	Peak	VERTICAL
2	15865.56	47.87	54.00	-6.13	31.45	14.46	37.62	35.66	167	132	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11062.50	44.53	54.00	-9.47	28.79	12.32	38.51	35.09	151	53	Average	HORIZONTAL
2	11063.30	56.80	74.00	-17.20	41.06	12.32	38.51	35.09	151	53	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11055.96	44.13	54.00	-9.87	28.50	12.27	38.45	35.09	155	126	Average	VERTICAL
2	11057.44	57.27	74.00	-16.73	41.64	12.27	38.45	35.09	155	126	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11221.30	45.12	54.00	-8.88	29.01	12.54	38.77	35.20	141	195	Average	HORIZONTAL
2	11227.96	58.05	74.00	-15.95	41.94	12.54	38.77	35.20	141	195	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11220.62	57.56	74.00	-16.44	41.54	12.50	38.72	35.20	155	86	Peak	VERTICAL
2	11225.22	44.86	54.00	-9.14	28.75	12.54	38.77	35.20	155	86	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Straddle Channel

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.64	44.53	54.00	-9.47	27.96	12.81	39.09	35.33	156	139	Average	HORIZONTAL
2	11439.70	57.27	74.00	-16.73	40.70	12.81	39.09	35.33	156	139	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11440.64	44.40	54.00	-9.60	27.83	12.81	39.09	35.33	150	273	Average	VERTICAL
2	11443.58	57.07	74.00	-16.93	40.50	12.81	39.09	35.33	150	273	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11438.22	57.23	74.00	-16.77	40.66	12.81	39.09	35.33	158	275	Peak	HORIZONTAL
2	11439.44	44.38	54.00	-9.62	27.81	12.81	39.09	35.33	158	275	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11437.52	44.47	54.00	-9.53	27.90	12.81	39.09	35.33	163	185	Average	VERTICAL
2	11443.70	57.58	74.00	-16.42	41.01	12.81	39.09	35.33	163	185	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11416.44	44.53	54.00	-9.47	28.03	12.77	39.04	35.31	165	102	Average	HORIZONTAL
2	11420.02	57.17	74.00	-16.83	40.58	12.81	39.09	35.31	165	102	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11415.86	57.54	74.00	-16.46	41.04	12.77	39.04	35.31	152	36	Peak	VERTICAL
2	11417.14	44.50	54.00	-9.50	28.00	12.77	39.04	35.31	152	36	Average	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 06, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Sector Antenna / 6.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11377.68	46.38	54.00	-7.62	29.96	12.72	38.99	35.29	165	113	Average	HORIZONTAL
2	11382.44	58.67	74.00	-15.33	42.25	12.72	38.99	35.29	165	113	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11375.58	58.28	74.00	-15.72	41.86	12.72	38.99	35.29	145	215	Peak	VERTICAL
2	11383.94	45.38	54.00	-8.62	28.96	12.72	38.99	35.29	145	215	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.43	49.53	54.00	-4.47	30.91	16.51	37.76	35.65	161	159	Average	HORIZONTAL
2	15780.85	62.51	74.00	-11.49	43.89	16.51	37.76	35.65	161	159	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.81	49.48	54.00	-4.52	30.86	16.51	37.76	35.65	156	87	Average	VERTICAL
2	15780.08	61.89	74.00	-12.11	43.27	16.51	37.76	35.65	156	87	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.24	59.32	74.00	-14.68	42.81	12.75	38.40	34.64	113	140	Peak	HORIZONTAL
2	10599.69	45.66	54.00	-8.34	29.15	12.75	38.40	34.64	113	140	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.20	58.27	74.00	-15.73	41.76	12.75	38.40	34.64	174	26	Peak	VERTICAL
2	10600.77	45.67	54.00	-8.33	29.16	12.75	38.40	34.64	174	26	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.39	45.61	54.00	-8.39	29.12	12.80	38.40	34.71	118	327	Average	HORIZONTAL
2	10639.55	58.65	74.00	-15.35	42.16	12.80	38.40	34.71	118	327	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.25	45.62	54.00	-8.38	29.13	12.80	38.40	34.71	113	204	Average	VERTICAL
2	10639.63	58.83	74.00	-15.17	42.34	12.80	38.40	34.71	113	204	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10999.12	59.51	74.00	-14.49	42.74	13.44	38.40	35.07	126	76	Peak	HORIZONTAL
2	11000.18	46.29	54.00	-7.71	29.52	13.44	38.40	35.07	126	76	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11000.18	46.37	54.00	-7.63	29.60	13.44	38.40	35.07	117	16	Average	VERTICAL
2	11000.46	59.18	74.00	-14.82	42.41	13.44	38.40	35.07	117	16	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.52	60.01	74.00	-13.99	42.79	13.71	38.67	35.16	170	352	Peak	HORIZONTAL
2	11160.89	46.93	54.00	-7.07	29.71	13.71	38.67	35.16	170	352	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.93	60.69	74.00	-13.31	43.47	13.71	38.67	35.16	166	250	Peak	VERTICAL
2	11160.87	46.81	54.00	-7.19	29.59	13.71	38.67	35.16	166	250	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 07, 2015 ~ Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.03	47.55	54.00	-6.45	29.74	14.08	39.04	35.31	147	136	Average	HORIZONTAL
2	11400.34	60.94	74.00	-13.06	43.13	14.08	39.04	35.31	147	136	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11400.24	60.50	74.00	-13.50	42.69	14.08	39.04	35.31	152	170	Peak	VERTICAL
2	11400.65	47.56	54.00	-6.44	29.75	14.08	39.04	35.31	152	170	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.03	49.58	54.00	-4.42	30.96	16.51	37.76	35.65	131	186	Average	HORIZONTAL
2	15780.18	62.62	74.00	-11.38	44.00	16.51	37.76	35.65	131	186	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.43	62.15	74.00	-11.85	43.53	16.51	37.76	35.65	126	264	Peak	VERTICAL
2	15780.44	49.65	54.00	-4.35	31.03	16.51	37.76	35.65	126	264	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.49	45.25	54.00	-8.75	28.74	12.75	38.40	34.64	133	171	Average	HORIZONTAL
2	10600.61	59.29	74.00	-14.71	42.78	12.75	38.40	34.64	133	171	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.43	58.59	74.00	-15.41	42.08	12.75	38.40	34.64	122	250	Peak	VERTICAL
2	10599.50	45.16	54.00	-8.84	28.65	12.75	38.40	34.64	122	250	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.52	45.38	54.00	-8.62	28.89	12.80	38.40	34.71	137	73	Average	HORIZONTAL
2	10639.77	57.96	74.00	-16.04	41.47	12.80	38.40	34.71	137	73	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.50	57.92	74.00	-16.08	41.43	12.80	38.40	34.71	143	104	Peak	VERTICAL
2	10639.57	45.13	54.00	-8.87	28.64	12.80	38.40	34.71	143	104	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10999.14	45.95	54.00	-8.05	29.18	13.44	38.40	35.07	151	234	Average	HORIZONTAL
2	10999.89	58.29	74.00	-15.71	41.52	13.44	38.40	35.07	151	234	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10999.45	46.02	54.00	-7.98	29.25	13.44	38.40	35.07	151	122	Average	VERTICAL
2	11000.50	59.02	74.00	-14.98	42.25	13.44	38.40	35.07	151	122	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11160.21	59.28	74.00	-14.72	42.06	13.71	38.67	35.16	149	277	Peak	HORIZONTAL
2	11160.64	46.67	54.00	-7.33	29.45	13.71	38.67	35.16	149	277	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.67	59.90	74.00	-14.10	42.68	13.71	38.67	35.16	144	234	Peak	VERTICAL
2	11160.60	46.66	54.00	-7.34	29.44	13.71	38.67	35.16	144	234	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.86	60.49	74.00	-13.51	42.68	14.08	39.04	35.31	133	187	Peak	HORIZONTAL
2	11399.97	47.29	54.00	-6.71	29.48	14.08	39.04	35.31	133	187	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11399.13	47.32	54.00	-6.68	29.51	14.08	39.04	35.31	129	224	Average	VERTICAL
2	11400.95	59.96	74.00	-14.04	42.15	14.08	39.04	35.31	129	224	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15809.16	49.60	54.00	-4.40	31.02	16.54	37.69	35.65	132	169	Average	HORIZONTAL
2	15810.39	63.20	74.00	-10.80	44.62	16.54	37.69	35.65	132	169	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15809.13	63.19	74.00	-10.81	44.61	16.54	37.69	35.65	129	134	Peak	VERTICAL
2	15809.45	49.55	54.00	-4.45	30.97	16.54	37.69	35.65	129	134	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10620.00	45.09	54.00	-8.91	28.62	12.75	38.40	34.68	136	220	Average	HORIZONTAL
2	10620.79	58.32	74.00	-15.68	41.85	12.75	38.40	34.68	136	220	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10619.68	45.05	54.00	-8.95	28.58	12.75	38.40	34.68	141	173	Average	VERTICAL
2	10619.87	58.85	74.00	-15.15	42.38	12.75	38.40	34.68	141	173	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11019.50	58.67	74.00	-15.33	41.90	13.44	38.40	35.07	155	178	Peak	HORIZONTAL
2	11019.91	45.89	54.00	-8.11	29.12	13.44	38.40	35.07	155	178	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11019.55	58.84	74.00	-15.16	42.07	13.44	38.40	35.07	150	106	Peak	VERTICAL
2	11020.05	45.91	54.00	-8.09	29.14	13.44	38.40	35.07	150	106	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11099.78	46.53	54.00	-7.47	29.48	13.60	38.56	35.11	152	134	Average	HORIZONTAL
2	11100.47	59.74	74.00	-14.26	42.69	13.60	38.56	35.11	152	134	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11100.32	46.52	54.00	-7.48	29.47	13.60	38.56	35.11	154	100	Average	VERTICAL
2	11100.34	61.01	74.00	-12.99	43.96	13.60	38.56	35.11	154	100	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11339.80	59.58	74.00	-14.42	41.94	13.97	38.93	35.26	154	214	Peak	HORIZONTAL
2	11340.88	47.11	54.00	-6.89	29.47	13.97	38.93	35.26	154	214	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11339.47	60.35	74.00	-13.65	42.71	13.97	38.93	35.26	160	154	Peak	VERTICAL
2	11340.92	47.13	54.00	-6.87	29.49	13.97	38.93	35.26	160	154	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15869.01	49.48	54.00	-4.52	30.96	16.57	37.62	35.67	147	306	Average	HORIZONTAL
2	15869.39	62.64	74.00	-11.36	44.12	16.57	37.62	35.67	147	306	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15869.31	49.51	54.00	-4.49	30.99	16.57	37.62	35.67	146	211	Average	VERTICAL
2	15870.24	62.49	74.00	-11.51	43.97	16.57	37.62	35.67	146	211	Peak	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.33	58.80	74.00	-15.20	41.95	13.49	38.45	35.09	139	210	Peak	HORIZONTAL
2	11059.79	45.95	54.00	-8.05	29.10	13.49	38.45	35.09	139	210	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.18	45.99	54.00	-8.01	29.14	13.49	38.45	35.09	144	168	Average	VERTICAL
2	11059.88	58.99	74.00	-15.01	42.14	13.49	38.45	35.09	144	168	Peak	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11219.79	59.56	74.00	-14.44	42.28	13.76	38.72	35.20	147	219	Peak	HORIZONTAL
2	11220.44	46.80	54.00	-7.20	29.52	13.76	38.72	35.20	147	219	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11220.27	46.70	54.00	-7.30	29.42	13.76	38.72	35.20	144	86	Average	VERTICAL
2	11220.81	59.67	74.00	-14.33	42.39	13.76	38.72	35.20	144	86	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Straddle Channel

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11440.37	47.51	54.00	-6.49	29.62	14.13	39.09	35.33	143	302	Average	HORIZONTAL
2	11440.44	60.03	74.00	-13.97	42.14	14.13	39.09	35.33	143	302	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.73	60.63	74.00	-13.37	42.74	14.13	39.09	35.33	139	237	Peak	VERTICAL
2	11440.28	47.48	54.00	-6.52	29.59	14.13	39.09	35.33	139	237	Average	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.19	60.16	74.00	-13.84	42.27	14.13	39.09	35.33	100	328	Peak	HORIZONTAL
2	11440.04	47.20	54.00	-6.80	29.31	14.13	39.09	35.33	100	328	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11439.42	60.36	74.00	-13.64	42.47	14.13	39.09	35.33	104	267	Peak	VERTICAL
2	11439.90	47.14	54.00	-6.86	29.25	14.13	39.09	35.33	104	267	Average	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11419.94	60.24	74.00	-13.76	42.33	14.13	39.09	35.31	101	256	Peak	HORIZONTAL
2	11420.53	47.07	54.00	-6.93	29.16	14.13	39.09	35.31	101	256	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11419.23	60.65	74.00	-13.35	42.74	14.13	39.09	35.31	105	303	Peak	VERTICAL
2	11420.48	47.27	54.00	-6.73	29.36	14.13	39.09	35.31	105	303	Average	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Dec. 08, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 4.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11379.50	47.08	54.00	-6.92	29.35	14.03	38.99	35.29	133	142	Average	HORIZONTAL
2	11380.47	60.46	74.00	-13.54	42.73	14.03	38.99	35.29	133	142	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11379.76	47.05	54.00	-6.95	29.32	14.03	38.99	35.29	139	33	Average	VERTICAL
2	11380.67	60.12	74.00	-13.88	42.39	14.03	38.99	35.29	139	33	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.99	60.39	74.00	-13.61	43.97	13.82	37.92	35.32	Peak	105	87	HORIZONTAL
2	15780.00	47.10	54.00	-6.90	30.68	13.82	37.92	35.32	Average	105	87	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.01	49.03	54.00	-4.97	32.61	13.82	37.92	35.32	Average	109	95	VERTICAL
2	15780.01	60.59	74.00	-13.41	44.17	13.82	37.92	35.32	Peak	109	95	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.00	55.73	74.00	-18.27	42.30	9.81	38.58	34.96	Peak	129	168	HORIZONTAL
2	10600.00	43.04	54.00	-10.96	29.61	9.81	38.58	34.96	Average	129	168	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.00	43.07	54.00	-10.93	29.64	9.81	38.58	34.96	Average	174	49	VERTICAL
2	10600.00	55.93	74.00	-18.07	42.50	9.81	38.58	34.96	Peak	174	49	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.99	42.79	54.00	-11.21	29.32	9.83	38.57	34.93	Average	157	127	HORIZONTAL
2	10640.00	55.79	74.00	-18.21	42.32	9.83	38.57	34.93	Peak	157	127	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.00	55.36	74.00	-18.64	41.89	9.83	38.57	34.93	Peak	168	71	VERTICAL
2	10640.00	43.89	54.00	-10.11	30.42	9.83	38.57	34.93	Average	168	71	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	43.16	54.00	-10.84	29.43	10.02	38.50	34.79	Average	164	141	HORIZONTAL
2	11000.00	56.17	74.00	-17.83	42.44	10.02	38.50	34.79	Peak	164	141	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	43.34	54.00	-10.66	29.61	10.02	38.50	34.79	Average	150	160	VERTICAL
2	11000.00	56.54	74.00	-17.46	42.81	10.02	38.50	34.79	Peak	150	160	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.99	56.20	74.00	-17.80	42.19	10.10	38.70	34.79	Peak	153	177	HORIZONTAL
2	11160.00	43.37	54.00	-10.63	29.36	10.10	38.70	34.79	Average	153	177	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.99	56.25	74.00	-17.75	42.24	10.10	38.70	34.79	Peak	144	164	VERTICAL
2	11160.01	45.38	54.00	-8.62	31.37	10.10	38.70	34.79	Average	144	164	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.00	44.24	54.00	-9.76	29.85	10.21	38.98	34.80	Average	149	154	HORIZONTAL
2	11400.01	57.73	74.00	-16.27	43.34	10.21	38.98	34.80	Peak	149	154	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.99	56.60	74.00	-17.40	42.21	10.21	38.98	34.80	Peak	142	141	VERTICAL
2	11399.99	43.59	54.00	-10.41	29.20	10.21	38.98	34.80	Average	142	141	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.00	46.79	54.00	-7.21	30.37	13.82	37.92	35.32	Average	155	209	HORIZONTAL
2	15780.01	59.58	74.00	-14.42	43.16	13.82	37.92	35.32	Peak	155	209	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.99	46.77	54.00	-7.23	30.35	13.82	37.92	35.32	Average	158	245	VERTICAL
2	15780.00	59.83	74.00	-14.17	43.41	13.82	37.92	35.32	Peak	158	245	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.01	56.20	74.00	-17.80	42.77	9.81	38.58	34.96	Peak	153	190	HORIZONTAL
2	10600.01	42.83	54.00	-11.17	29.40	9.81	38.58	34.96	Average	153	190	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.00	55.39	74.00	-18.61	41.96	9.81	38.58	34.96	Peak	147	170	VERTICAL
2	10600.01	44.74	54.00	-9.26	31.31	9.81	38.58	34.96	Average	147	170	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.99	55.92	74.00	-18.08	42.45	9.83	38.57	34.93	Peak	160	135	HORIZONTAL
2	10640.00	42.60	54.00	-11.40	29.13	9.83	38.57	34.93	Average	160	135	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.00	55.66	74.00	-18.34	42.19	9.83	38.57	34.93	Peak	157	166	VERTICAL
2	10640.00	43.70	54.00	-10.30	30.23	9.83	38.57	34.93	Average	157	166	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	56.66	74.00	-17.34	42.93	10.02	38.50	34.79	Peak	148	110	HORIZONTAL
2	11000.00	43.53	54.00	-10.47	29.80	10.02	38.50	34.79	Average	148	110	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	43.46	54.00	-10.54	29.73	10.02	38.50	34.79	Average	145	161	VERTICAL
2	11000.01	56.18	74.00	-17.82	42.45	10.02	38.50	34.79	Peak	145	161	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.99	56.11	74.00	-17.89	42.10	10.10	38.70	34.79	Peak	147	182	HORIZONTAL
2	11160.01	43.24	54.00	-10.76	29.23	10.10	38.70	34.79	Average	147	182	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	45.35	54.00	-8.65	31.34	10.10	38.70	34.79	Average	143	148	VERTICAL
2	11160.00	56.42	74.00	-17.58	42.41	10.10	38.70	34.79	Peak	143	148	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.99	43.69	54.00	-10.31	29.30	10.21	38.98	34.80	Average	145	220	HORIZONTAL
2	11400.00	56.81	74.00	-17.19	42.42	10.21	38.98	34.80	Peak	145	220	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.99	43.71	54.00	-10.29	29.32	10.21	38.98	34.80	Average	140	255	VERTICAL
2	11400.01	56.61	74.00	-17.39	42.22	10.21	38.98	34.80	Peak	140	255	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.99	46.75	54.00	-7.25	30.41	13.81	37.85	35.32	Average	148	109	HORIZONTAL
2	15809.99	61.22	74.00	-12.78	44.88	13.81	37.85	35.32	Peak	148	109	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15810.00	60.08	74.00	-13.92	43.74	13.81	37.85	35.32	Peak	151	122	VERTICAL
2	15810.01	48.85	54.00	-5.15	32.51	13.81	37.85	35.32	Average	151	122	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10620.00	42.80	54.00	-11.20	29.36	9.81	38.58	34.95	Average	146	74	HORIZONTAL
2	10620.01	55.80	74.00	-18.20	42.36	9.81	38.58	34.95	Peak	146	74	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.99	56.05	74.00	-17.95	42.61	9.81	38.58	34.95	Peak	153	85	VERTICAL
2	10619.99	42.89	54.00	-11.11	29.45	9.81	38.58	34.95	Average	153	85	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.99	56.04	74.00	-17.96	42.31	10.02	38.50	34.79	Peak	155	96	HORIZONTAL
2	11020.00	43.07	54.00	-10.93	29.34	10.02	38.50	34.79	Average	155	96	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11020.00	55.71	74.00	-18.29	41.98	10.02	38.50	34.79	Peak	151	62	VERTICAL
2	11020.00	43.35	54.00	-10.65	29.62	10.02	38.50	34.79	Average	151	62	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11100.00	56.33	74.00	-17.67	42.43	10.07	38.62	34.79	Peak	161	38	HORIZONTAL
2	11100.01	43.11	54.00	-10.89	29.21	10.07	38.62	34.79	Average	161	38	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.99	55.96	74.00	-18.04	42.06	10.07	38.62	34.79	Peak	160	31	VERTICAL
2	11100.00	44.06	54.00	-9.94	30.16	10.07	38.62	34.79	Average	160	31	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.99	43.55	54.00	-10.45	29.27	10.18	38.90	34.80	Average	157	94	HORIZONTAL
2	11340.01	56.21	74.00	-17.79	41.93	10.18	38.90	34.80	Peak	157	94	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.99	43.76	54.00	-10.24	29.48	10.18	38.90	34.80	Average	162	57	VERTICAL
2	11340.00	56.55	74.00	-17.45	42.27	10.18	38.90	34.80	Peak	162	57	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15869.99	58.58	74.00	-15.42	42.35	13.81	37.79	35.37	Peak	156	47	HORIZONTAL
2	15870.00	46.20	54.00	-7.80	29.97	13.81	37.79	35.37	Average	156	47	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15869.99	45.77	54.00	-8.23	29.54	13.81	37.79	35.37	Average	154	58	VERTICAL
2	15870.01	59.42	74.00	-14.58	43.19	13.81	37.79	35.37	Peak	154	58	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11060.00	55.34	74.00	-18.66	41.56	10.03	38.54	34.79	Peak	148	102	HORIZONTAL
2	11060.00	42.91	54.00	-11.09	29.13	10.03	38.54	34.79	Average	148	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11060.01	55.63	74.00	-18.37	41.85	10.03	38.54	34.79	Peak	150	94	VERTICAL
2	11060.01	43.00	54.00	-11.00	29.22	10.03	38.54	34.79	Average	150	94	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11219.99	55.22	74.00	-18.78	41.16	10.11	38.74	34.79	Peak	157	146	HORIZONTAL
2	11220.01	42.98	54.00	-11.02	28.92	10.11	38.74	34.79	Average	157	146	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11220.00	55.97	74.00	-18.03	41.91	10.11	38.74	34.79	Peak	159	138	VERTICAL
2	11220.01	43.77	54.00	-10.23	29.71	10.11	38.74	34.79	Average	159	138	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Straddle Channel

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.00	44.14	54.00	-9.86	29.70	10.22	39.02	34.80	Average	142	115	HORIZONTAL
2	11440.01	57.13	74.00	-16.87	42.69	10.22	39.02	34.80	Peak	142	115	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.00	45.15	54.00	-8.85	30.71	10.22	39.02	34.80	Average	147	104	VERTICAL
2	11440.00	57.15	74.00	-16.85	42.71	10.22	39.02	34.80	Peak	147	104	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.00	58.00	74.00	-16.00	43.56	10.22	39.02	34.80	Peak	150	167	HORIZONTAL
2	11440.00	44.15	54.00	-9.85	29.71	10.22	39.02	34.80	Average	150	167	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.00	56.76	74.00	-17.24	42.32	10.22	39.02	34.80	Peak	134	230	VERTICAL
2	11440.00	45.17	54.00	-8.83	30.73	10.22	39.02	34.80	Average	134	230	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11420.00	44.04	54.00	-9.96	29.60	10.22	39.02	34.80	Average	154	46	HORIZONTAL
2	11420.00	57.33	74.00	-16.67	42.89	10.22	39.02	34.80	Peak	154	46	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11420.00	45.92	54.00	-8.08	31.48	10.22	39.02	34.80	Average	170	36	VERTICAL
2	11420.00	57.33	74.00	-16.67	42.89	10.22	39.02	34.80	Peak	170	36	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11380.00	56.62	74.00	-17.38	42.29	10.19	38.94	34.80	Peak	152	141	HORIZONTAL
2	11380.01	43.48	54.00	-10.52	29.15	10.19	38.94	34.80	Average	152	141	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.99	56.65	74.00	-17.35	42.32	10.19	38.94	34.80	Peak	152	123	VERTICAL
2	11380.01	44.52	54.00	-9.48	30.19	10.19	38.94	34.80	Average	152	123	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.55	60.65	74.00	-13.35	44.23	13.82	37.92	35.32	Peak	124	166	HORIZONTAL
2	15780.32	47.37	54.00	-6.63	30.95	13.82	37.92	35.32	Average	124	166	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.00	48.45	54.00	-5.55	32.03	13.82	37.92	35.32	Average	191	231	VERTICAL
2	15780.34	60.25	74.00	-13.75	43.83	13.82	37.92	35.32	Peak	191	231	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.88	56.21	74.00	-17.79	42.78	9.81	38.58	34.96	Peak	150	301	HORIZONTAL
2	10600.94	44.01	54.00	-9.99	30.58	9.81	38.58	34.96	Average	150	301	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.38	43.25	54.00	-10.75	29.82	9.81	38.58	34.96	Average	142	237	VERTICAL
2	10600.17	56.37	74.00	-17.63	42.94	9.81	38.58	34.96	Peak	142	237	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10460.82	42.68	54.00	-11.32	29.32	9.74	38.67	35.05	Average	196	115	HORIZONTAL
2	10460.99	57.31	74.00	-16.69	43.95	9.74	38.67	35.05	Peak	196	115	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10460.85	54.99	74.00	-19.01	41.63	9.74	38.67	35.05	Peak	139	3	VERTICAL
2	10460.92	42.58	54.00	-11.42	29.22	9.74	38.67	35.05	Average	139	3	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.36	55.24	74.00	-18.76	41.51	10.02	38.50	34.79	Peak	167	184	HORIZONTAL
2	11000.72	42.26	54.00	-11.74	28.53	10.02	38.50	34.79	Average	167	184	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.85	42.20	54.00	-11.80	28.47	10.02	38.50	34.79	Average	158	138	VERTICAL
2	11000.87	54.70	74.00	-19.30	40.97	10.02	38.50	34.79	Peak	158	138	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.19	46.87	54.00	-7.13	32.86	10.10	38.70	34.79	Average	143	117	HORIZONTAL
2	11160.68	60.79	74.00	-13.21	46.78	10.10	38.70	34.79	Peak	143	117	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.85	47.45	54.00	-6.55	33.44	10.10	38.70	34.79	Average	150	193	VERTICAL
2	11159.86	56.98	74.00	-17.02	42.97	10.10	38.70	34.79	Peak	150	193	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.02	42.72	54.00	-11.28	28.33	10.21	38.98	34.80	Average	141	183	HORIZONTAL
2	11399.22	55.24	74.00	-18.76	40.85	10.21	38.98	34.80	Peak	141	183	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.95	42.61	54.00	-11.39	28.22	10.21	38.98	34.80	Average	155	114	VERTICAL
2	11400.22	54.83	74.00	-19.17	40.44	10.21	38.98	34.80	Peak	155	114	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.35	60.83	74.00	-13.17	44.41	13.82	37.92	35.32	Peak	140	88	HORIZONTAL
2	15780.58	47.38	54.00	-6.62	30.96	13.82	37.92	35.32	Average	140	88	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.50	60.24	74.00	-13.76	43.82	13.82	37.92	35.32	Peak	149	140	VERTICAL
2	15780.58	47.67	54.00	-6.33	31.25	13.82	37.92	35.32	Average	149	140	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.18	56.95	74.00	-17.05	43.52	9.81	38.58	34.96	Peak	142	27	HORIZONTAL
2	10599.20	43.50	54.00	-10.50	30.07	9.81	38.58	34.96	Average	142	27	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.62	56.40	74.00	-17.60	42.97	9.81	38.58	34.96	Peak	143	166	VERTICAL
2	10601.00	43.42	54.00	-10.58	29.99	9.81	38.58	34.96	Average	143	166	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.36	43.03	54.00	-10.97	29.56	9.83	38.57	34.93	Average	142	250	HORIZONTAL
2	10640.98	55.95	74.00	-18.05	42.48	9.83	38.57	34.93	Peak	142	250	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.53	43.46	54.00	-10.54	29.99	9.83	38.57	34.93	Average	140	355	VERTICAL
2	10640.10	56.36	74.00	-17.64	42.89	9.83	38.57	34.93	Peak	140	355	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5500.50	36.65	54.00	-17.35	29.97	7.07	34.60	34.99	Average	149	56	HORIZONTAL
2	5500.98	49.57	74.00	-24.43	42.89	7.07	34.60	34.99	Peak	149	56	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5500.39	49.13	74.00	-24.87	42.45	7.07	34.60	34.99	Peak	151	184	VERTICAL
2	5500.61	36.88	54.00	-17.12	30.20	7.07	34.60	34.99	Average	151	184	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.93	57.61	74.00	-16.39	43.60	10.10	38.70	34.79	Peak	162	204	HORIZONTAL
2	11160.18	45.73	54.00	-8.27	31.72	10.10	38.70	34.79	Average	162	204	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.79	44.44	54.00	-9.56	30.43	10.10	38.70	34.79	Average	160	53	VERTICAL
2	11160.22	56.36	74.00	-17.64	42.35	10.10	38.70	34.79	Peak	160	53	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.72	56.15	74.00	-17.85	41.76	10.21	38.98	34.80	Peak	158	4	HORIZONTAL
2	11400.09	42.93	54.00	-11.07	28.54	10.21	38.98	34.80	Average	158	4	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.48	42.83	54.00	-11.17	28.44	10.21	38.98	34.80	Average	153	164	VERTICAL
2	11400.48	55.51	74.00	-18.49	41.12	10.21	38.98	34.80	Peak	153	164	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15810.06	60.36	74.00	-13.64	44.02	13.81	37.85	35.32	Peak	150	264	HORIZONTAL
2	15810.50	47.52	54.00	-6.48	31.18	13.81	37.85	35.32	Average	150	264	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.64	60.79	74.00	-13.21	44.45	13.81	37.85	35.32	Peak	150	332	VERTICAL
2	15810.36	47.54	54.00	-6.46	31.20	13.81	37.85	35.32	Average	150	332	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10620.24	43.31	54.00	-10.69	29.87	9.81	38.58	34.95	Average	146	62	HORIZONTAL
2	10620.30	56.35	74.00	-17.65	42.91	9.81	38.58	34.95	Peak	146	62	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.62	43.22	54.00	-10.78	29.78	9.81	38.58	34.95	Average	142	11	VERTICAL
2	10620.24	57.28	74.00	-16.72	43.84	9.81	38.58	34.95	Peak	142	11	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11020.02	55.58	74.00	-18.42	41.85	10.02	38.50	34.79	Peak	156	114	HORIZONTAL
2	11020.31	42.76	54.00	-11.24	29.03	10.02	38.50	34.79	Average	156	114	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.82	55.26	74.00	-18.74	41.53	10.02	38.50	34.79	Peak	148	186	VERTICAL
2	11020.24	42.10	54.00	-11.90	28.37	10.02	38.50	34.79	Average	148	186	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.34	56.24	74.00	-17.76	42.34	10.07	38.62	34.79	Peak	156	293	HORIZONTAL
2	11100.70	46.05	54.00	-7.95	32.15	10.07	38.62	34.79	Average	156	293	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.39	55.84	74.00	-18.16	41.94	10.07	38.62	34.79	Peak	154	133	VERTICAL
2	11099.46	44.72	54.00	-9.28	30.82	10.07	38.62	34.79	Average	154	133	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11340.16	55.24	74.00	-18.76	40.96	10.18	38.90	34.80	Peak	145	225	HORIZONTAL
2	11340.94	42.75	54.00	-11.25	28.47	10.18	38.90	34.80	Average	145	225	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.37	55.02	74.00	-18.98	40.74	10.18	38.90	34.80	Peak	152	360	VERTICAL
2	11339.47	42.70	54.00	-11.30	28.42	10.18	38.90	34.80	Average	152	360	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15870.14	48.21	54.00	-5.79	31.98	13.81	37.79	35.37	Average	144	53	HORIZONTAL
2	15870.71	60.63	74.00	-13.37	44.40	13.81	37.79	35.37	Peak	144	53	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15869.06	48.49	54.00	-5.51	32.26	13.81	37.79	35.37	Average	147	181	VERTICAL
2	15869.72	60.63	74.00	-13.37	44.40	13.81	37.79	35.37	Peak	147	181	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11059.27	42.68	54.00	-11.32	28.90	10.03	38.54	34.79	Average	163	215	HORIZONTAL
2	11060.38	55.87	74.00	-18.13	42.03	10.05	38.58	34.79	Peak	163	215	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11059.86	42.94	54.00	-11.06	29.16	10.03	38.54	34.79	Average	164	320	VERTICAL
2	11059.94	55.87	74.00	-18.13	42.09	10.03	38.54	34.79	Peak	164	320	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11220.21	43.99	54.00	-10.01	29.93	10.11	38.74	34.79	Average	161	51	HORIZONTAL
2	11220.37	56.91	74.00	-17.09	42.85	10.11	38.74	34.79	Peak	161	51	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11220.12	56.60	74.00	-17.40	42.54	10.11	38.74	34.79	Peak	155	184	VERTICAL
2	11220.49	43.90	54.00	-10.10	29.84	10.11	38.74	34.79	Average	155	184	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Straddle Channel

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.30	42.55	54.00	-11.45	28.11	10.22	39.02	34.80	Average	147	145	HORIZONTAL
2	11440.22	54.88	74.00	-19.12	40.44	10.22	39.02	34.80	Peak	147	145	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.37	55.54	74.00	-18.46	41.10	10.22	39.02	34.80	Peak	151	152	VERTICAL
2	11440.54	42.21	54.00	-11.79	27.77	10.22	39.02	34.80	Average	151	152	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 21, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.06	42.36	54.00	-11.64	27.92	10.22	39.02	34.80	Average	153	140	HORIZONTAL
2	11440.38	55.39	74.00	-18.61	40.95	10.22	39.02	34.80	Peak	153	140	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.99	42.48	54.00	-11.52	28.04	10.22	39.02	34.80	Average	151	56	VERTICAL
2	11440.52	55.25	74.00	-18.75	40.81	10.22	39.02	34.80	Peak	151	56	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11419.02	42.39	54.00	-11.61	27.95	10.22	39.02	34.80	Average	140	181	HORIZONTAL
2	11420.62	55.02	74.00	-18.98	40.58	10.22	39.02	34.80	Peak	140	181	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11420.10	55.31	74.00	-18.69	40.87	10.22	39.02	34.80	Peak	144	118	VERTICAL
2	11420.26	42.65	54.00	-11.35	28.21	10.22	39.02	34.80	Average	144	118	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.78	42.98	54.00	-11.02	28.65	10.19	38.94	34.80	Average	164	148	HORIZONTAL
2	11380.28	55.34	74.00	-18.66	41.01	10.19	38.94	34.80	Peak	164	148	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.00	42.95	54.00	-11.05	28.62	10.19	38.94	34.80	Average	155	24	VERTICAL
2	11380.93	55.91	74.00	-18.09	41.58	10.19	38.94	34.80	Peak	155	24	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.31	45.87	54.00	-8.13	29.45	13.82	37.92	35.32	Average	150	223	HORIZONTAL
2	15780.88	59.47	74.00	-14.53	43.05	13.82	37.92	35.32	Peak	150	223	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.84	45.79	54.00	-8.21	29.37	13.82	37.92	35.32	Average	150	251	VERTICAL
2	15780.96	58.95	74.00	-15.05	42.53	13.82	37.92	35.32	Peak	150	251	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.59	55.93	74.00	-18.07	42.50	9.81	38.58	34.96	Peak	150	256	HORIZONTAL
2	10600.61	42.11	54.00	-11.89	28.68	9.81	38.58	34.96	Average	150	256	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.24	42.24	54.00	-11.76	28.81	9.81	38.58	34.96	Average	150	210	VERTICAL
2	10600.98	55.63	74.00	-18.37	42.20	9.81	38.58	34.96	Peak	150	210	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.71	55.93	74.00	-18.07	42.46	9.83	38.57	34.93	Peak	150	203	HORIZONTAL
2	10639.88	41.97	54.00	-12.03	28.50	9.83	38.57	34.93	Average	150	203	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.48	55.39	74.00	-18.61	41.92	9.83	38.57	34.93	Peak	150	245	VERTICAL
2	10639.74	41.92	54.00	-12.08	28.45	9.83	38.57	34.93	Average	150	245	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.30	42.14	54.00	-11.86	28.41	10.02	38.50	34.79	Average	150	185	HORIZONTAL
2	11000.48	55.51	74.00	-18.49	41.78	10.02	38.50	34.79	Peak	150	185	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.97	42.30	54.00	-11.70	28.57	10.02	38.50	34.79	Average	150	153	VERTICAL
2	11000.27	56.35	74.00	-17.65	42.62	10.02	38.50	34.79	Peak	150	153	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.06	42.37	54.00	-11.63	28.36	10.10	38.70	34.79	Average	150	208	HORIZONTAL
2	11160.74	56.05	74.00	-17.95	42.04	10.10	38.70	34.79	Peak	150	208	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.27	42.45	54.00	-11.55	28.44	10.10	38.70	34.79	Average	150	222	VERTICAL
2	11160.74	56.05	74.00	-17.95	42.04	10.10	38.70	34.79	Peak	150	222	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.34	55.81	74.00	-18.19	41.42	10.21	38.98	34.80	Peak	150	220	HORIZONTAL
2	11400.73	43.07	54.00	-10.93	28.68	10.21	38.98	34.80	Average	150	220	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.28	55.97	74.00	-18.03	41.58	10.21	38.98	34.80	Peak	150	245	VERTICAL
2	11400.25	43.05	54.00	-10.95	28.66	10.21	38.98	34.80	Average	150	245	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.50	59.15	74.00	-14.85	42.73	13.82	37.92	35.32	Peak	150	164	HORIZONTAL
2	15779.59	45.97	54.00	-8.03	29.55	13.82	37.92	35.32	Average	150	164	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.89	59.27	74.00	-14.73	42.85	13.82	37.92	35.32	Peak	150	143	VERTICAL
2	15780.39	45.82	54.00	-8.18	29.40	13.82	37.92	35.32	Average	150	143	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.35	41.78	54.00	-12.22	28.35	9.81	38.58	34.96	Average	150	142	HORIZONTAL
2	10600.72	55.29	74.00	-18.71	41.86	9.81	38.58	34.96	Peak	150	142	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.44	55.51	74.00	-18.49	42.08	9.81	38.58	34.96	Peak	150	135	VERTICAL
2	10600.24	42.10	54.00	-11.90	28.67	9.81	38.58	34.96	Average	150	135	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.52	41.98	54.00	-12.02	28.51	9.83	38.57	34.93	Average	150	120	HORIZONTAL
2	10640.19	55.05	74.00	-18.95	41.58	9.83	38.57	34.93	Peak	150	120	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.70	55.12	74.00	-18.88	41.65	9.83	38.57	34.93	Peak	150	129	VERTICAL
2	10639.78	42.05	54.00	-11.95	28.58	9.83	38.57	34.93	Average	150	129	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.40	55.61	74.00	-18.39	41.88	10.02	38.50	34.79	Peak	150	128	HORIZONTAL
2	10999.46	42.38	54.00	-11.62	28.65	10.02	38.50	34.79	Average	150	128	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.52	42.37	54.00	-11.63	28.64	10.02	38.50	34.79	Average	150	119	VERTICAL
2	11000.29	55.82	74.00	-18.18	42.09	10.02	38.50	34.79	Peak	150	119	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.43	55.71	74.00	-18.29	41.70	10.10	38.70	34.79	Peak	150	128	HORIZONTAL
2	11160.99	42.31	54.00	-11.69	28.30	10.10	38.70	34.79	Average	150	128	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.44	55.57	74.00	-18.43	41.56	10.10	38.70	34.79	Peak	150	134	VERTICAL
2	11159.92	42.42	54.00	-11.58	28.41	10.10	38.70	34.79	Average	150	134	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.27	56.09	74.00	-17.91	41.70	10.21	38.98	34.80	Peak	150	165	HORIZONTAL
2	11399.68	42.93	54.00	-11.07	28.54	10.21	38.98	34.80	Average	150	165	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.26	43.00	54.00	-11.00	28.61	10.21	38.98	34.80	Average	150	178	VERTICAL
2	11401.00	57.67	74.00	-16.33	43.28	10.21	38.98	34.80	Peak	150	178	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.63	59.53	74.00	-14.47	43.19	13.81	37.85	35.32	Peak	150	125	HORIZONTAL
2	15810.12	45.97	54.00	-8.03	29.63	13.81	37.85	35.32	Average	150	125	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.80	45.97	54.00	-8.03	29.63	13.81	37.85	35.32	Average	150	135	VERTICAL
2	15810.25	59.60	74.00	-14.40	43.26	13.81	37.85	35.32	Peak	150	135	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.29	55.40	74.00	-18.60	41.96	9.81	38.58	34.95	Peak	150	131	HORIZONTAL
2	10620.39	42.07	54.00	-11.93	28.63	9.81	38.58	34.95	Average	150	131	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.25	55.78	74.00	-18.22	42.34	9.81	38.58	34.95	Peak	150	120	VERTICAL
2	10619.66	42.10	54.00	-11.90	28.66	9.81	38.58	34.95	Average	150	120	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.63	42.21	54.00	-11.79	28.48	10.02	38.50	34.79	Average	150	145	HORIZONTAL
2	11020.25	55.47	74.00	-18.53	41.74	10.02	38.50	34.79	Peak	150	145	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.97	54.97	74.00	-19.03	41.24	10.02	38.50	34.79	Peak	150	130	VERTICAL
2	11020.05	42.39	54.00	-11.61	28.66	10.02	38.50	34.79	Average	150	130	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.51	55.70	74.00	-18.30	41.97	10.02	38.50	34.79	Peak	150	151	HORIZONTAL
2	11000.29	42.47	54.00	-11.53	28.74	10.02	38.50	34.79	Average	150	151	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10999.28	42.24	54.00	-11.76	28.51	10.02	38.50	34.79	Average	150	174	VERTICAL
2	11000.30	55.59	74.00	-18.41	41.86	10.02	38.50	34.79	Peak	150	174	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.99	42.93	54.00	-11.07	28.65	10.18	38.90	34.80	Average	150	159	HORIZONTAL
2	11340.32	56.72	74.00	-17.28	42.44	10.18	38.90	34.80	Peak	150	159	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11340.66	43.09	54.00	-10.91	28.81	10.18	38.90	34.80	Average	150	168	VERTICAL
2	11340.92	56.14	74.00	-17.86	41.86	10.18	38.90	34.80	Peak	150	168	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15869.45	45.53	54.00	-8.47	29.30	13.81	37.79	35.37	Average	150	227	HORIZONTAL
2	15869.82	59.03	74.00	-14.97	42.80	13.81	37.79	35.37	Peak	150	227	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15869.82	45.67	54.00	-8.33	29.44	13.81	37.79	35.37	Average	150	204	VERTICAL
2	15869.96	59.71	74.00	-14.29	43.48	13.81	37.79	35.37	Peak	150	204	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11059.08	55.30	74.00	-18.70	41.52	10.03	38.54	34.79	Peak	150	213	HORIZONTAL
2	11059.23	42.50	54.00	-11.50	28.72	10.03	38.54	34.79	Average	150	213	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11059.42	42.39	54.00	-11.61	28.61	10.03	38.54	34.79	Average	150	189	VERTICAL
2	11060.22	56.51	74.00	-17.49	42.67	10.05	38.58	34.79	Peak	150	189	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11219.42	42.34	54.00	-11.66	28.28	10.11	38.74	34.79	Average	150	241	HORIZONTAL
2	11219.60	56.21	74.00	-17.79	42.15	10.11	38.74	34.79	Peak	150	241	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11219.12	55.22	74.00	-18.78	41.16	10.11	38.74	34.79	Peak	150	253	VERTICAL
2	11220.33	42.36	54.00	-11.64	28.30	10.11	38.74	34.79	Average	150	253	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Straddle Channel

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.21	43.28	54.00	-10.72	28.84	10.22	39.02	34.80	Average	150	245	HORIZONTAL
2	11440.52	56.90	74.00	-17.10	42.46	10.22	39.02	34.80	Peak	150	245	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.45	56.77	74.00	-17.23	42.33	10.22	39.02	34.80	Peak	150	262	VERTICAL
2	11440.81	43.38	54.00	-10.62	28.94	10.22	39.02	34.80	Average	150	262	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.69	43.24	54.00	-10.76	28.80	10.22	39.02	34.80	Average	150	172	HORIZONTAL
2	11440.90	58.01	74.00	-15.99	43.57	10.22	39.02	34.80	Peak	150	172	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.28	56.33	74.00	-17.67	41.89	10.22	39.02	34.80	Peak	150	187	VERTICAL
2	11440.71	43.29	54.00	-10.71	28.85	10.22	39.02	34.80	Average	150	187	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.29	42.93	54.00	-11.07	28.65	10.18	38.90	34.80	Average	150	166	HORIZONTAL
2	11340.75	56.44	74.00	-17.56	42.16	10.18	38.90	34.80	Peak	150	166	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11340.23	42.91	54.00	-11.09	28.63	10.18	38.90	34.80	Average	150	156	VERTICAL
2	11340.33	56.82	74.00	-17.18	42.54	10.18	38.90	34.80	Peak	150	156	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 22, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Panel Antenna / 6 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.34	43.01	54.00	-10.99	28.68	10.19	38.94	34.80	Average	150	275	HORIZONTAL
2	11380.64	56.65	74.00	-17.35	42.32	10.19	38.94	34.80	Peak	150	275	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.05	57.07	74.00	-16.93	42.74	10.19	38.94	34.80	Peak	150	239	VERTICAL
2	11380.54	42.92	54.00	-11.08	28.59	10.19	38.94	34.80	Average	150	239	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15779.75	46.62	54.00	-7.38	30.20	13.82	37.92	35.32	Average	150	133	HORIZONTAL
2	15780.10	58.10	74.00	-15.90	41.68	13.82	37.92	35.32	Peak	150	133	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.24	47.16	54.00	-6.84	30.74	13.82	37.92	35.32	Average	150	97	VERTICAL
2	15781.82	58.34	74.00	-15.66	41.92	13.82	37.92	35.32	Peak	150	97	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.00	41.73	54.00	-12.27	28.30	9.81	38.58	34.96	Average	150	180	HORIZONTAL
2	10600.00	53.16	74.00	-20.84	39.73	9.81	38.58	34.96	Peak	150	180	HORIZONTAL
3	15900.00	47.13	54.00	-6.87	30.96	13.81	37.73	35.37	Average	150	62	HORIZONTAL
4	15900.00	57.59	74.00	-16.41	41.42	13.81	37.73	35.37	Peak	150	62	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.98	41.70	54.00	-12.30	28.27	9.81	38.58	34.96	Average	150	62	VERTICAL
2	10599.98	53.61	74.00	-20.39	40.18	9.81	38.58	34.96	Peak	150	62	VERTICAL
3	15900.02	47.17	54.00	-6.83	31.00	13.81	37.73	35.37	Average	150	161	VERTICAL
4	15900.02	58.14	74.00	-15.86	41.97	13.81	37.73	35.37	Peak	150	161	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.00	41.85	54.00	-12.15	28.38	9.83	38.57	34.93	Average	150	109	HORIZONTAL
2	10640.00	53.10	74.00	-20.90	39.63	9.83	38.57	34.93	Peak	150	109	HORIZONTAL
3	15960.00	46.78	54.00	-7.22	30.71	13.80	37.66	35.39	Average	150	69	HORIZONTAL
4	15960.00	58.66	74.00	-15.34	42.59	13.80	37.66	35.39	Peak	150	69	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.00	41.79	54.00	-12.21	28.32	9.83	38.57	34.93	Average	150	94	VERTICAL
2	10640.00	53.09	74.00	-20.91	39.62	9.83	38.57	34.93	Peak	150	94	VERTICAL
3	15960.00	46.57	54.00	-7.43	30.50	13.80	37.66	35.39	Average	150	140	VERTICAL
4	15960.00	58.36	74.00	-15.64	42.29	13.80	37.66	35.39	Peak	150	140	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	42.33	54.00	-11.67	28.60	10.02	38.50	34.79	Average	150	157	HORIZONTAL
2	11000.00	53.42	74.00	-20.58	39.69	10.02	38.50	34.79	Peak	150	157	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	41.95	54.00	-12.05	28.22	10.02	38.50	34.79	Average	150	92	VERTICAL
2	11000.00	52.91	74.00	-21.09	39.18	10.02	38.50	34.79	Peak	150	92	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	42.81	54.00	-11.19	28.80	10.10	38.70	34.79	Average	150	63	HORIZONTAL
2	11160.00	53.71	74.00	-20.29	39.70	10.10	38.70	34.79	Peak	150	63	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	41.78	54.00	-12.22	27.77	10.10	38.70	34.79	Average	150	251	VERTICAL
2	11160.00	52.92	74.00	-21.08	38.91	10.10	38.70	34.79	Peak	150	251	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.00	42.69	54.00	-11.31	28.30	10.21	38.98	34.80	Average	150	107	HORIZONTAL
2	11400.00	54.18	74.00	-19.82	39.79	10.21	38.98	34.80	Peak	150	107	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.00	42.85	54.00	-11.15	28.46	10.21	38.98	34.80	Average	150	82	VERTICAL
2	11400.00	54.70	74.00	-19.30	40.31	10.21	38.98	34.80	Peak	150	82	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.00	46.80	54.00	-7.20	30.38	13.82	37.92	35.32	Average	150	101	HORIZONTAL
2	15780.00	57.82	74.00	-16.18	41.40	13.82	37.92	35.32	Peak	150	101	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.00	47.15	54.00	-6.85	30.73	13.82	37.92	35.32	Average	150	94	VERTICAL
2	15780.00	58.35	74.00	-15.65	41.93	13.82	37.92	35.32	Peak	150	94	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15900.00	47.17	54.00	-6.83	31.00	13.81	37.73	35.37	Average	150	191	HORIZONTAL
2	15900.00	58.76	74.00	-15.24	42.59	13.81	37.73	35.37	Peak	150	191	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15900.00	47.25	54.00	-6.75	31.08	13.81	37.73	35.37	Average	150	163	VERTICAL
2	15900.00	58.49	74.00	-15.51	42.32	13.81	37.73	35.37	Peak	150	163	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15960.00	47.03	54.00	-6.97	30.96	13.80	37.66	35.39	Average	150	82	HORIZONTAL
2	15960.00	58.08	74.00	-15.92	42.01	13.80	37.66	35.39	Peak	150	82	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15960.00	46.59	54.00	-7.41	30.52	13.80	37.66	35.39	Average	150	191	VERTICAL
2	15960.00	58.39	74.00	-15.61	42.32	13.80	37.66	35.39	Peak	150	191	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	41.88	54.00	-12.12	28.15	10.02	38.50	34.79	Average	150	14	HORIZONTAL
2	11000.00	53.59	74.00	-20.41	39.86	10.02	38.50	34.79	Peak	150	14	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.00	42.01	54.00	-11.99	28.28	10.02	38.50	34.79	Average	150	93	VERTICAL
2	11000.00	53.95	74.00	-20.05	40.22	10.02	38.50	34.79	Peak	150	93	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	42.42	54.00	-11.58	28.41	10.10	38.70	34.79	Average	150	87	HORIZONTAL
2	11160.00	53.59	74.00	-20.41	39.58	10.10	38.70	34.79	Peak	150	87	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	42.40	54.00	-11.60	28.39	10.10	38.70	34.79	Average	150	180	VERTICAL
2	11160.00	54.68	74.00	-19.32	40.67	10.10	38.70	34.79	Peak	150	180	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	42.62	54.00	-11.38	28.61	10.10	38.70	34.79	Average	150	31	HORIZONTAL
2	11160.00	54.20	74.00	-19.80	40.19	10.10	38.70	34.79	Peak	150	31	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.00	42.43	54.00	-11.57	28.42	10.10	38.70	34.79	Average	150	196	VERTICAL
2	11160.00	54.30	74.00	-19.70	40.29	10.10	38.70	34.79	Peak	150	196	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15803.58	47.07	54.00	-6.93	30.73	13.81	37.85	35.32	Average	150	17	HORIZONTAL
2	15809.91	57.87	74.00	-16.13	41.53	13.81	37.85	35.32	Peak	150	17	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15810.43	47.45	54.00	-6.55	31.11	13.81	37.85	35.32	Average	150	118	VERTICAL
2	15819.55	58.68	74.00	-15.32	42.36	13.81	37.85	35.34	Peak	150	118	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10612.94	41.39	54.00	-12.61	27.95	9.81	38.58	34.95	Average	150	26	HORIZONTAL
2	10625.73	52.69	74.00	-21.31	39.24	9.83	38.57	34.95	Peak	150	26	HORIZONTAL
3	15935.15	57.95	74.00	-16.05	41.88	13.80	37.66	35.39	Peak	150	111	HORIZONTAL
4	15937.58	46.69	54.00	-7.31	30.62	13.80	37.66	35.39	Average	150	111	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10616.84	42.14	54.00	-11.86	28.70	9.81	38.58	34.95	Average	150	87	VERTICAL
2	10620.93	53.82	74.00	-20.18	40.38	9.81	38.58	34.95	Peak	150	87	VERTICAL
3	15921.11	57.65	74.00	-16.35	41.58	13.80	37.66	35.39	Peak	150	351	VERTICAL
4	15930.52	46.88	54.00	-7.12	30.81	13.80	37.66	35.39	Average	150	351	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11013.98	41.72	54.00	-12.28	27.99	10.02	38.50	34.79	Average	150	71	HORIZONTAL
2	11013.98	48.19	74.00	-25.81	34.46	10.02	38.50	34.79	Peak	150	71	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11013.98	42.93	54.00	-11.07	29.20	10.02	38.50	34.79	Average	150	263	VERTICAL
2	11013.98	50.33	74.00	-23.67	36.60	10.02	38.50	34.79	Peak	150	263	VERTICAL

Temperature	25°C	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11090.00	41.60	54.00	-12.40	27.76	10.05	38.58	34.79	Average	150	14	HORIZONTAL
2	11090.00	50.67	74.00	-23.33	36.83	10.05	38.58	34.79	Peak	150	14	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11090.00	42.19	54.00	-11.81	28.35	10.05	38.58	34.79	Average	150	171	VERTICAL
2	11090.00	48.03	74.00	-25.97	34.19	10.05	38.58	34.79	Peak	150	171	VERTICAL

Temperature	25℃	Humidity	58%
Test Engineer	Peter Wu & Owen Hsu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	Nov. 18, 2015		
Test Mode	Mode 6: EUT 1 + Set 7 Sector Antenna / 11.5 dBi		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11330.00	43.43	54.00	-10.57	29.15	10.18	38.90	34.80	Average	150	88	HORIZONTAL
2	11330.00	50.40	74.00	-23.60	36.12	10.18	38.90	34.80	Peak	150	88	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11330.00	43.68	54.00	-10.32	29.40	10.18	38.90	34.80	Average	150	157	VERTICAL
2	11330.00	50.04	74.00	-23.96	35.76	10.18	38.90	34.80	Peak	150	157	VERTICAL