



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15773.94	37.16	54.00	-16.84	29.02	6.14	37.42	35.42	Average	100	40 HORIZONTAL
2	15778.21	49.86	74.00	-24.14	41.73	6.14	37.41	35.42	Peak	100	40 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15775.06	37.26	54.00	-16.74	29.12	6.14	37.42	35.42	Average	100	209 VERTICAL
2	15780.93	50.66	74.00	-23.34	42.53	6.14	37.41	35.42	Peak	100	209 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch56 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10555.32	36.31	54.00	-17.69	28.37	5.01	38.39	35.46	Average	100	344 HORIZONTAL
2	10561.76	49.56	74.00	-24.44	41.62	5.01	38.39	35.46	Peak	100	344 HORIZONTAL
3	15839.96	38.69	54.00	-15.31	30.63	6.14	37.36	35.44	Average	100	349 HORIZONTAL
4	15841.36	51.92	74.00	-22.08	43.86	6.14	37.36	35.44	Peak	100	349 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10565.52	36.34	54.00	-17.66	28.40	5.01	38.39	35.46	Average	100	348 VERTICAL
2	10567.24	48.66	74.00	-25.34	40.72	5.01	38.39	35.46	Peak	100	348 VERTICAL
3	15833.60	51.52	74.00	-22.48	43.46	6.14	37.36	35.44	Peak	110	335 VERTICAL
4	15846.60	39.84	54.00	-14.16	31.81	6.14	37.34	35.45	Average	110	335 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15906.40	49.16	74.00	-24.84	41.16	6.15	37.29	35.44	Peak	100	211	HORIZONTAL
2	15908.40	36.33	54.00	-17.67	28.33	6.15	37.29	35.44	Average	100	211	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15908.21	36.32	54.00	-17.68	28.32	6.15	37.29	35.44	Average	100	167	VERTICAL
2	15909.29	49.34	74.00	-24.66	41.34	6.15	37.29	35.44	Peak	100	167	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15950.42	35.90	54.00	-18.10	27.96	6.15	37.23	35.44	Average	100	257	HORIZONTAL
2	15958.56	49.15	74.00	-24.85	41.21	6.15	37.23	35.44	Peak	100	257	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15953.30	48.42	74.00	-25.58	40.48	6.15	37.23	35.44	Peak	100	85	VERTICAL
2	15956.15	35.88	54.00	-18.12	27.94	6.15	37.23	35.44	Average	100	85	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11009.29	49.06	74.00	-24.94	40.82	5.02	38.33	35.11	Peak	100	224	HORIZONTAL
2	11009.36	36.42	54.00	-17.58	28.18	5.02	38.33	35.11	Average	100	224	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	10993.40	48.96	74.00	-25.04	40.75	5.01	38.30	35.10	Peak	100	129	VERTICAL
2	11004.01	36.48	54.00	-17.52	28.27	5.01	38.30	35.10	Average	100	129	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.55	36.76	54.00	-17.24	28.42	5.04	38.47	35.17	Average	100	148	HORIZONTAL
2	11164.17	49.53	74.00	-24.47	41.18	5.05	38.47	35.17	Peak	100	148	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11165.77	36.59	54.00	-17.41	28.24	5.05	38.47	35.17	Average	100	84	VERTICAL
2	11165.96	49.95	74.00	-24.05	41.60	5.05	38.47	35.17	Peak	100	84	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11400.44	49.50	74.00	-24.50	40.95	5.10	38.70	35.25	Peak	100	163 HORIZONTAL
2	11403.85	36.98	54.00	-17.02	28.43	5.10	38.70	35.25	Average	100	163 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11400.00	49.35	74.00	-24.65	40.80	5.10	38.70	35.25	Peak	100	233 VERTICAL
2	11402.76	36.82	54.00	-17.18	28.27	5.10	38.70	35.25	Average	100	233 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm				cm	deg	
1	15775.10	50.21	74.00	-23.79	42.07	6.14	37.42	35.42	Peak			100	224	HORIZONTAL
2	15777.40	37.28	54.00	-16.72	29.15	6.14	37.41	35.42	Average			100	224	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm				cm	deg	
1	15778.69	37.23	54.00	-16.77	29.10	6.14	37.41	35.42	Average			100	76	VERTICAL
2	15780.42	49.86	74.00	-24.14	41.73	6.14	37.41	35.42	Peak			100	76	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB		cm	deg	
1	15926.76	50.61	74.00	-23.39	42.63	6.15	37.27	35.44	Peak	100	198	HORIZONTAL
2	15930.74	37.29	54.00	-16.71	29.33	6.15	37.25	35.44	Average	100	198	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB		cm	deg	
1	15932.98	37.13	54.00	-16.87	29.17	6.15	37.25	35.44	Average	100	146	VERTICAL
2	15933.43	49.82	74.00	-24.18	41.86	6.15	37.25	35.44	Peak	100	146	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11018.40	49.76	74.00	-24.24	41.52	5.02	38.33	35.11	Peak	100	130	HORIZONTAL
2	11018.78	36.84	54.00	-17.16	28.60	5.02	38.33	35.11	Average	100	130	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11020.37	49.68	74.00	-24.32	41.45	5.02	38.32	35.11	Peak	100	52	VERTICAL
2	11023.78	36.89	54.00	-17.11	28.65	5.02	38.33	35.11	Average	100	52	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11099.04	36.91	54.00	-17.09	28.62	5.03	38.40	35.14	Average	100	238 HORIZONTAL
2	11104.39	49.65	74.00	-24.35	41.36	5.03	38.40	35.14	Peak	100	238 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11101.38	37.04	54.00	-16.96	28.75	5.03	38.40	35.14	Average	100	150 VERTICAL
2	11102.76	50.09	74.00	-23.91	41.80	5.03	38.40	35.14	Peak	100	150 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	11340.29	50.22	74.00	-23.78	41.74	5.09	38.63	35.24	Peak	100	225	HORIZONTAL
2	11342.12	37.18	54.00	-16.82	28.70	5.09	38.63	35.24	Average	100	225	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	11338.59	50.14	74.00	-23.86	41.67	5.08	38.63	35.24	Peak	100	112	VERTICAL
2	11349.17	37.78	54.00	-16.22	29.28	5.09	38.65	35.24	Average	100	112	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15870.54	36.53	54.00	-17.47	28.51	6.14	37.32	35.44	Average	100	277 HORIZONTAL
2	15874.68	48.92	74.00	-25.08	40.90	6.14	37.32	35.44	Peak	100	277 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15866.14	36.48	54.00	-17.52	28.47	6.14	37.32	35.45	Average	100	192 VERTICAL
2	15866.41	49.25	74.00	-24.75	41.24	6.14	37.32	35.45	Peak	100	192 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	11059.79	48.80	74.00	-25.20	40.53	5.03	38.37	35.13	Peak	100	95	HORIZONTAL
2	11060.93	35.98	54.00	-18.02	27.71	5.03	38.37	35.13	Average	100	95	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	11058.81	50.41	74.00	-23.59	42.15	5.02	38.37	35.13	Peak	100	149	VERTICAL
2	11064.28	36.80	54.00	-17.20	28.53	5.03	38.37	35.13	Average	100	149	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15770.77	37.99	54.00	-16.01	29.85	6.14	37.42	35.42	Average	100	242	HORIZONTAL
2	15781.22	50.00	74.00	-24.00	41.87	6.14	37.41	35.42	Peak	100	242	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15781.86	51.47	74.00	-22.53	43.34	6.14	37.41	35.42	Peak	100	255	VERTICAL
2	15784.29	38.87	54.00	-15.13	30.74	6.14	37.41	35.42	Average	100	255	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch56 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10550.84	48.49	74.00	-25.51	40.55	5.01	38.39	35.46	Peak	102	357 HORIZONTAL
2	10555.96	36.12	54.00	-17.88	28.18	5.01	38.39	35.46	Average	102	357 HORIZONTAL
3	15835.28	51.74	74.00	-22.26	43.68	6.14	37.36	35.44	Peak	100	343 HORIZONTAL
4	15839.32	38.63	54.00	-15.37	30.57	6.14	37.36	35.44	Average	100	343 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10551.00	36.06	54.00	-17.94	28.12	5.01	38.39	35.46	Average	100	252 VERTICAL
2	10554.24	48.93	74.00	-25.07	40.99	5.01	38.39	35.46	Peak	100	252 VERTICAL
3	15840.92	51.56	74.00	-22.44	43.50	6.14	37.36	35.44	Peak	100	357 VERTICAL
4	15849.64	39.69	54.00	-14.31	31.66	6.14	37.34	35.45	Average	100	357 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	10594.62	36.24	54.00	-17.76	28.29	5.01	38.38	35.44	Average	100	147	HORIZONTAL
2	10602.34	48.74	74.00	-25.26	40.77	5.01	38.38	35.42	Peak	100	147	HORIZONTAL
3	15890.13	37.26	54.00	-16.74	29.25	6.15	37.30	35.44	Average	100	300	HORIZONTAL
4	15904.78	49.04	74.00	-24.96	41.04	6.15	37.29	35.44	Peak	100	300	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10593.69	48.76	74.00	-25.24	40.81	5.01	38.38	35.44	Peak	100	111	VERTICAL
2	10601.31	36.39	54.00	-17.61	28.42	5.01	38.38	35.42	Average	100	111	VERTICAL
3	15903.53	50.28	74.00	-23.72	42.28	6.15	37.29	35.44	Peak	100	177	VERTICAL
4	15905.87	37.24	54.00	-16.76	29.24	6.15	37.29	35.44	Average	100	177	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10630.80	36.16	54.00	-17.84	28.17	5.01	38.37	35.39	Average	100	138 HORIZONTAL
2	10649.94	49.28	74.00	-24.72	41.27	5.01	38.37	35.37	Peak	100	138 HORIZONTAL
3	15950.06	37.13	54.00	-16.87	29.19	6.15	37.23	35.44	Average	100	324 HORIZONTAL
4	15950.10	49.46	74.00	-24.54	41.52	6.15	37.23	35.44	Peak	100	324 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10640.77	48.95	74.00	-25.05	40.96	5.01	38.37	35.39	Peak	100	205 VERTICAL
2	10647.44	36.18	54.00	-17.82	28.19	5.01	38.37	35.39	Average	100	205 VERTICAL
3	15950.42	37.16	54.00	-16.84	29.22	6.15	37.23	35.44	Average	100	268 VERTICAL
4	15955.64	49.32	74.00	-24.68	41.38	6.15	37.23	35.44	Peak	100	268 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11005.32	35.45	54.00	-18.55	27.21	5.01	38.33	35.10	Average	100	282	HORIZONTAL
2	11009.90	48.12	74.00	-25.88	39.88	5.02	38.33	35.11	Peak	100	282	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11002.72	48.14	74.00	-25.86	39.93	5.01	38.30	35.10	Peak	100	197	VERTICAL
2	11006.28	35.47	54.00	-18.53	27.25	5.01	38.32	35.11	Average	100	197	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	11160.16	50.33	74.00	-23.67	41.99	5.04	38.47	35.17	Peak	100	40 HORIZONTAL
2	11161.22	37.38	54.00	-16.62	29.04	5.04	38.47	35.17	Average	100	40 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	11156.28	53.62	74.00	-20.38	45.29	5.04	38.45	35.16	Peak	100	238 VERTICAL
2	11166.70	40.70	54.00	-13.30	32.35	5.05	38.47	35.17	Average	100	238 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11400.71	34.92	54.00	-19.08	26.37	5.10	38.70	35.25	Average	100	90	HORIZONTAL
2	11405.80	48.68	74.00	-25.32	40.13	5.10	38.70	35.25	Peak	100	90	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11393.85	47.80	74.00	-26.20	39.27	5.10	38.68	35.25	Peak	100	208	VERTICAL
2	11399.71	35.19	54.00	-18.81	26.64	5.10	38.70	35.25	Average	100	208	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15805.16	49.29	74.00	-24.71	41.19	6.14	37.39	35.43	Peak	100	154 HORIZONTAL
2	15811.99	37.19	54.00	-16.81	29.11	6.14	37.37	35.43	Average	100	154 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15817.50	50.61	74.00	-23.39	42.53	6.14	37.37	35.43	Peak	100	278 VERTICAL
2	15819.94	37.37	54.00	-16.63	29.30	6.14	37.37	35.44	Average	100	278 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10613.37	36.32	54.00	-17.68	28.35	5.01	38.38	35.42	Average			100	80	HORIZONTAL
2	10626.79	49.36	74.00	-24.64	41.36	5.01	38.38	35.39	Peak			100	80	HORIZONTAL
3	15920.32	37.41	54.00	-16.59	29.43	6.15	37.27	35.44	Average			100	221	HORIZONTAL
4	15931.63	50.05	74.00	-23.95	42.09	6.15	37.25	35.44	Peak			100	221	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10622.92	36.23	54.00	-17.77	28.26	5.01	38.38	35.42	Average			100	269	VERTICAL
2	10623.27	49.58	74.00	-24.42	41.61	5.01	38.38	35.42	Peak			100	269	VERTICAL
3	15920.83	37.31	54.00	-16.69	29.33	6.15	37.27	35.44	Average			100	331	VERTICAL
4	15926.09	49.84	74.00	-24.16	41.86	6.15	37.27	35.44	Peak			100	331	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11013.91	48.09	74.00	-25.91	39.85	5.02	38.33	35.11	Peak	100	311	HORIZONTAL
2	11026.31	35.63	54.00	-18.37	27.38	5.02	38.34	35.11	Average	100	311	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11024.52	35.55	54.00	-18.45	27.31	5.02	38.33	35.11	Average	100	249	VERTICAL
2	11029.04	48.07	74.00	-25.93	39.83	5.02	38.33	35.11	Peak	100	249	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11091.54	48.40	74.00	-25.60	40.11	5.03	38.40	35.14	Peak	100	162 HORIZONTAL
2	11102.28	36.33	54.00	-17.67	28.04	5.03	38.40	35.14	Average	100	162 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11097.08	37.40	54.00	-16.60	29.11	5.03	38.40	35.14	Average	100	121 VERTICAL
2	11106.76	51.13	74.00	-22.87	42.84	5.03	38.40	35.14	Peak	100	121 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	11324.29	47.55	74.00	-26.45	39.08	5.08	38.62	35.23	Peak	100	123	HORIZONTAL
2	11328.70	36.20	54.00	-17.80	27.73	5.08	38.62	35.23	Average	100	123	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	11329.74	39.33	54.00	-14.67	30.85	5.08	38.63	35.23	Average	100	321	VERTICAL
2	11338.00	51.95	74.00	-22.05	43.48	5.08	38.63	35.24	Peak	100	321	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15880.66	37.49	54.00	-16.51	29.48	6.15	37.30	35.44	Average	100	121	HORIZONTAL
2	15890.11	50.17	74.00	-23.83	42.16	6.15	37.30	35.44	Peak	100	121	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15883.14	49.85	74.00	-24.15	41.84	6.15	37.30	35.44	Peak	100	248	VERTICAL
2	15891.71	37.50	54.00	-16.50	29.49	6.15	37.30	35.44	Average	100	248	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11067.53	48.69	74.00	-25.31	40.42	5.03	38.37	35.13	Peak	100	64	HORIZONTAL
2	11073.38	35.95	54.00	-18.05	27.67	5.03	38.38	35.13	Average	100	64	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11065.05	48.28	74.00	-25.72	40.01	5.03	38.37	35.13	Peak	100	139	VERTICAL
2	11075.95	35.92	54.00	-18.08	27.64	5.03	38.38	35.13	Average	100	139	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15770.16	49.34	74.00	-24.66	41.20	6.14	37.42	35.42	Peak	100	323	HORIZONTAL
2	15775.45	37.43	54.00	-16.57	29.29	6.14	37.42	35.42	Average	100	323	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15770.48	36.97	54.00	-17.03	28.83	6.14	37.42	35.42	Average	100	216	VERTICAL
2	15779.97	50.15	74.00	-23.85	42.02	6.14	37.41	35.42	Peak	100	216	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch56 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10526.00	49.76	74.00	-24.24	41.83	5.01	38.40	35.48	Peak	100	359 HORIZONTAL
2	10549.00	36.17	54.00	-17.83	28.23	5.01	38.39	35.46	Average	100	359 HORIZONTAL
3	15877.20	39.46	54.00	-14.54	31.44	6.14	37.32	35.44	Average	100	340 HORIZONTAL
4	15885.80	51.68	74.00	-22.32	43.67	6.15	37.30	35.44	Peak	100	340 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10535.20	36.47	54.00	-17.53	28.55	5.01	38.39	35.48	Average	100	359 VERTICAL
2	10588.20	48.46	74.00	-25.54	40.51	5.01	38.38	35.44	Peak	100	359 VERTICAL
3	15887.20	39.54	54.00	-14.46	31.53	6.15	37.30	35.44	Average	100	353 VERTICAL
4	15888.60	51.77	74.00	-22.23	43.76	6.15	37.30	35.44	Peak	100	353 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10603.62	48.69	74.00	-25.31	40.72	5.01	38.38	35.42	Peak	100	213 HORIZONTAL
2	10605.35	36.24	54.00	-17.76	28.27	5.01	38.38	35.42	Average	100	213 HORIZONTAL
3	15892.63	48.65	74.00	-25.35	40.64	6.15	37.30	35.44	Peak	100	20 HORIZONTAL
4	15897.88	36.60	54.00	-17.40	28.60	6.15	37.29	35.44	Average	100	20 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10599.58	36.63	54.00	-17.37	28.66	5.01	38.38	35.42	Average	100	182 VERTICAL
2	10607.72	48.82	74.00	-25.18	40.85	5.01	38.38	35.42	Peak	100	182 VERTICAL
3	15897.21	48.97	74.00	-25.03	40.97	6.15	37.29	35.44	Peak	100	101 VERTICAL
4	15901.28	36.76	54.00	-17.24	28.76	6.15	37.29	35.44	Average	100	101 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10637.69	36.07	54.00	-17.93	28.08	5.01	38.37	35.39	Average	100	336 HORIZONTAL
2	10639.10	48.37	74.00	-25.63	40.38	5.01	38.37	35.39	Peak	100	336 HORIZONTAL
3	15950.35	36.51	54.00	-17.49	28.57	6.15	37.23	35.44	Average	100	199 HORIZONTAL
4	15962.72	49.21	74.00	-24.79	41.27	6.15	37.23	35.44	Peak	100	199 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10635.19	48.60	74.00	-25.40	40.61	5.01	38.37	35.39	Peak	100	207 VERTICAL
2	10638.33	36.10	54.00	-17.90	28.11	5.01	38.37	35.39	Average	100	207 VERTICAL
3	15950.45	36.35	54.00	-17.65	28.41	6.15	37.23	35.44	Average	100	110 VERTICAL
4	15958.30	49.42	74.00	-24.58	41.48	6.15	37.23	35.44	Peak	100	110 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m					
1	11002.98	35.47	54.00	-18.53	27.24	5.01	38.32	35.10	Average		100	44	HORIZONTAL
2	11004.62	47.85	74.00	-26.15	39.62	5.01	38.32	35.10	Peak		100	44	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m						
1	10991.41	48.26	74.00	-25.74	40.05	5.01	38.30	35.10	Peak		100	162	VERTICAL	
2	11001.63	35.58	54.00	-18.42	27.37	5.01	38.30	35.10	Average		100	162	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11137.08	49.28	74.00	-24.72	40.97	5.04	38.43	35.16	Peak	100	182	HORIZONTAL
2	11158.96	38.08	54.00	-15.92	29.74	5.04	38.47	35.17	Average	100	182	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11159.12	42.11	54.00	-11.89	33.77	5.04	38.47	35.17	Average	100	238	VERTICAL
2	11164.97	54.49	74.00	-19.51	46.14	5.05	38.47	35.17	Peak	100	238	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11390.77	48.17	74.00	-25.83	39.65	5.09	38.68	35.25	Peak	100	107	HORIZONTAL
2	11406.28	35.18	54.00	-18.82	26.63	5.10	38.70	35.25	Average	100	107	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11397.95	47.57	74.00	-26.43	39.02	5.10	38.70	35.25	Peak	100	201	VERTICAL
2	11400.06	35.22	54.00	-18.78	26.67	5.10	38.70	35.25	Average	100	201	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15800.54	49.14	74.00	-24.86	41.04	6.14	37.39	35.43	Peak	100	289 HORIZONTAL
2	15816.38	36.67	54.00	-17.33	28.59	6.14	37.37	35.43	Average	100	289 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15819.42	49.28	74.00	-24.72	41.21	6.14	37.37	35.44	Peak	100	175 VERTICAL
2	15819.46	36.63	54.00	-17.37	28.56	6.14	37.37	35.44	Average	100	175 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10616.79	49.10	74.00	-24.90	41.13	5.01	38.38	35.42	Peak			100	59	HORIZONTAL
2	10623.21	36.17	54.00	-17.83	28.20	5.01	38.38	35.42	Average			100	59	HORIZONTAL
3	15923.59	48.66	74.00	-25.34	40.68	6.15	37.27	35.44	Peak			100	159	HORIZONTAL
4	15939.49	36.65	54.00	-17.35	28.69	6.15	37.25	35.44	Average			100	159	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10610.32	48.39	74.00	-25.61	40.42	5.01	38.38	35.42	Peak			100	136	VERTICAL
2	10624.55	36.08	54.00	-17.92	28.08	5.01	38.38	35.39	Average			100	136	VERTICAL
3	15920.45	36.72	54.00	-17.28	28.74	6.15	37.27	35.44	Average			100	77	VERTICAL
4	15921.99	49.26	74.00	-24.74	41.28	6.15	37.27	35.44	Peak			100	77	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11013.40	35.54	54.00	-18.46	27.30	5.02	38.33	35.11	Average	100	309	HORIZONTAL
2	11017.79	49.73	74.00	-24.27	41.49	5.02	38.33	35.11	Peak	100	309	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11011.76	48.29	74.00	-25.71	40.06	5.02	38.32	35.11	Peak	100	233	VERTICAL
2	11014.97	35.52	54.00	-18.48	27.29	5.02	38.32	35.11	Average	100	233	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11103.65	35.92	54.00	-18.08	27.63	5.03	38.40	35.14	Average	100	266	HORIZONTAL
2	11104.13	48.78	74.00	-25.22	40.49	5.03	38.40	35.14	Peak	100	266	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11092.56	48.60	74.00	-25.40	40.31	5.03	38.40	35.14	Peak	100	127	VERTICAL
2	11099.78	37.03	54.00	-16.97	28.74	5.03	38.40	35.14	Average	100	127	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11339.20	36.10	54.00	-17.90	27.63	5.08	38.63	35.24	Average	100	326 HORIZONTAL
2	11349.33	47.96	74.00	-26.04	39.46	5.09	38.65	35.24	Peak	100	326 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11336.47	39.55	54.00	-14.45	31.08	5.08	38.63	35.24	Average	100	242 VERTICAL
2	11338.11	50.20	74.00	-23.80	41.73	5.08	38.63	35.24	Peak	100	242 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15880.98	36.75	54.00	-17.25	28.74	6.15	37.30	35.44	Average	100	164 HORIZONTAL
2	15881.30	47.79	74.00	-26.21	39.78	6.15	37.30	35.44	Peak	100	164 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15845.80	36.89	54.00	-17.11	28.86	6.14	37.34	35.45	Average	100	290 VERTICAL
2	15853.01	49.60	74.00	-24.40	41.57	6.14	37.34	35.45	Peak	100	290 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11054.79	49.51	74.00	-24.49	41.25	5.02	38.36	35.12	Peak	100	89 HORIZONTAL
2	11083.96	36.63	54.00	-17.37	28.36	5.03	38.38	35.14	Average	100	89 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11066.73	36.68	54.00	-17.32	28.41	5.03	38.37	35.13	Average	100	158 VERTICAL
2	11068.89	48.69	74.00	-25.31	40.42	5.03	38.37	35.13	Peak	100	158 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15777.95	37.68	54.00	-16.32	29.55	6.14	37.41	35.42	Average	100	300 HORIZONTAL
2	15784.07	50.29	74.00	-23.71	42.16	6.14	37.41	35.42	Peak	100	300 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15776.57	38.03	54.00	-15.97	29.90	6.14	37.41	35.42	Average	100	124 VERTICAL
2	15777.02	51.58	74.00	-22.42	43.45	6.14	37.41	35.42	Peak	100	124 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10555.68	35.93	54.00	-18.07	27.99	5.01	38.39	35.46	Average	100	348	HORIZONTAL
2	10569.12	49.05	74.00	-24.95	41.11	5.01	38.39	35.46	Peak	100	348	HORIZONTAL
3	15841.20	38.70	54.00	-15.30	30.64	6.14	37.36	35.44	Average	100	354	HORIZONTAL
4	15849.20	52.24	74.00	-21.76	44.21	6.14	37.34	35.45	Peak	100	354	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10551.36	48.50	74.00	-25.50	40.56	5.01	38.39	35.46	Peak	100	318	VERTICAL
2	10552.72	35.96	54.00	-18.04	28.02	5.01	38.39	35.46	Average	100	318	VERTICAL
3	15842.40	52.17	74.00	-21.83	44.11	6.14	37.36	35.44	Peak	100	305	VERTICAL
4	15849.84	39.94	54.00	-14.06	31.91	6.14	37.34	35.45	Average	100	305	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10600.61	36.52	54.00	-17.48	28.55	5.01	38.38	35.42	Average	100	132 HORIZONTAL
2	10600.71	50.29	74.00	-23.71	42.32	5.01	38.38	35.42	Peak	100	132 HORIZONTAL
3	15890.26	36.87	54.00	-17.13	28.86	6.15	37.30	35.44	Average	100	301 HORIZONTAL
4	15905.51	49.64	74.00	-24.36	41.64	6.15	37.29	35.44	Peak	100	301 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10592.76	49.53	74.00	-24.47	41.58	5.01	38.38	35.44	Peak	100	128 VERTICAL
2	10599.23	37.29	54.00	-16.71	29.32	5.01	38.38	35.42	Average	100	128 VERTICAL
3	15890.42	36.95	54.00	-17.05	28.94	6.15	37.30	35.44	Average	100	246 VERTICAL
4	15905.35	49.77	74.00	-24.23	41.77	6.15	37.29	35.44	Peak	100	246 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10630.00	36.65	54.00	-17.35	28.65	5.01	38.38	35.39	Average	100	78 HORIZONTAL
2	10640.77	49.74	74.00	-24.26	41.75	5.01	38.37	35.39	Peak	100	78 HORIZONTAL
3	15950.03	36.83	54.00	-17.17	28.89	6.15	37.23	35.44	Average	100	181 HORIZONTAL
4	15950.93	49.44	74.00	-24.56	41.50	6.15	37.23	35.44	Peak	100	181 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10630.03	49.23	74.00	-24.77	41.23	5.01	38.38	35.39	Peak	100	231 VERTICAL
2	10633.43	36.52	54.00	-17.48	28.53	5.01	38.37	35.39	Average	100	231 VERTICAL
3	15950.54	36.85	54.00	-17.15	28.91	6.15	37.23	35.44	Average	100	302 VERTICAL
4	15952.15	50.33	74.00	-23.67	42.39	6.15	37.23	35.44	Peak	100	302 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10996.47	50.39	74.00	-23.61	42.16	5.01	38.32	35.10	Peak	100	287	HORIZONTAL
2	11007.85	36.83	54.00	-17.17	28.60	5.01	38.33	35.11	Average	100	287	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.04	49.21	74.00	-24.79	41.00	5.01	38.30	35.10	Peak	100	231	VERTICAL
2	11009.71	36.77	54.00	-17.23	28.54	5.02	38.32	35.11	Average	100	231	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11162.56	39.81	54.00	-14.19	31.46	5.05	38.47	35.17	Average	100	161	HORIZONTAL
2	11163.61	51.62	74.00	-22.38	43.27	5.05	38.47	35.17	Peak	100	161	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11155.11	55.27	74.00	-18.73	46.94	5.04	38.45	35.16	Peak	100	293	VERTICAL
2	11157.44	43.10	54.00	-10.90	34.77	5.04	38.45	35.16	Average	100	293	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11393.11	37.10	54.00	-16.90	28.57	5.10	38.68	35.25	Average	100	272	HORIZONTAL
2	11399.94	50.76	74.00	-23.24	42.21	5.10	38.70	35.25	Peak	100	272	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11390.29	50.03	74.00	-23.97	41.51	5.09	38.68	35.25	Peak	100	172	VERTICAL
2	11402.72	37.34	54.00	-16.66	28.79	5.10	38.70	35.25	Average	100	172	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15813.08	49.42	74.00	-24.58	41.34	6.14	37.37	35.43	Peak	100	281	HORIZONTAL
2	15827.18	36.86	54.00	-17.14	28.79	6.14	37.37	35.44	Average	100	281	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15791.03	37.12	54.00	-16.88	28.99	6.14	37.41	35.42	Average	100	147	VERTICAL
2	15796.60	49.80	74.00	-24.20	41.70	6.14	37.39	35.43	Peak	100	147	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10610.51	48.39	74.00	-25.61	40.42	5.01	38.38	35.42	Peak	100	114 HORIZONTAL
2	10626.47	36.36	54.00	-17.64	28.36	5.01	38.38	35.39	Average	100	114 HORIZONTAL
3	15911.99	36.88	54.00	-17.12	28.88	6.15	37.29	35.44	Average	100	283 HORIZONTAL
4	15911.99	49.63	74.00	-24.37	41.63	6.15	37.29	35.44	Peak	100	283 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10612.31	36.14	54.00	-17.86	28.17	5.01	38.38	35.42	Average	100	75 VERTICAL
2	10618.08	48.75	74.00	-25.25	40.78	5.01	38.38	35.42	Peak	100	75 VERTICAL
3	15920.58	36.95	54.00	-17.05	28.97	6.15	37.27	35.44	Average	100	174 VERTICAL
4	15927.12	48.96	74.00	-25.04	40.98	6.15	37.27	35.44	Peak	100	174 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11036.47	35.57	54.00	-18.43	27.33	5.02	38.34	35.12	Average	100	101 HORIZONTAL
2	11039.55	47.59	74.00	-26.41	39.33	5.02	38.36	35.12	Peak	100	101 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11033.46	35.81	54.00	-18.19	27.58	5.02	38.33	35.12	Average	100	211 VERTICAL
2	11038.21	48.54	74.00	-25.46	40.31	5.02	38.33	35.12	Peak	100	211 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11095.45	48.51	74.00	-25.49	40.22	5.03	38.40	35.14	Peak	100	121 HORIZONTAL
2	11101.15	36.67	54.00	-17.33	28.38	5.03	38.40	35.14	Average	100	121 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11087.88	49.31	74.00	-24.69	41.04	5.03	38.38	35.14	Peak	100	263 VERTICAL
2	11108.72	38.20	54.00	-15.80	29.90	5.03	38.42	35.15	Average	100	263 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11340.45	47.89	74.00	-26.11	39.41	5.09	38.63	35.24	Peak	100	267	HORIZONTAL
2	11341.54	36.21	54.00	-17.79	27.73	5.09	38.63	35.24	Average	100	267	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11341.03	49.48	74.00	-24.52	41.00	5.09	38.63	35.24	Peak	100	55	VERTICAL
2	11343.14	37.93	54.00	-16.07	29.45	5.09	38.63	35.24	Average	100	55	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15881.79	36.80	54.00	-17.20	28.79	6.15	37.30	35.44	Average	100	269	HORIZONTAL
2	15888.27	49.38	74.00	-24.62	41.37	6.15	37.30	35.44	Peak	100	269	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15861.67	36.91	54.00	-17.09	28.90	6.14	37.32	35.45	Average	100	136	VERTICAL
2	15873.21	49.46	74.00	-24.54	41.44	6.14	37.32	35.44	Peak	100	136	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11074.36	35.85	54.00	-18.15	27.57	5.03	38.38	35.13	Average	100	189 HORIZONTAL
2	11076.47	47.96	74.00	-26.04	39.68	5.03	38.38	35.13	Peak	100	189 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11073.65	35.76	54.00	-18.24	27.48	5.03	38.38	35.13	Average	100	73 VERTICAL
2	11073.72	48.35	74.00	-25.65	40.07	5.03	38.38	35.13	Peak	100	73 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15770.13	37.56	54.00	-16.44	29.42	6.14	37.42	35.42	Average	100	338	HORIZONTAL
2	15779.49	49.84	74.00	-24.16	41.71	6.14	37.41	35.42	Peak	100	338	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15777.50	49.84	74.00	-24.16	41.71	6.14	37.41	35.42	Peak	100	243	VERTICAL
2	15778.94	37.31	54.00	-16.69	29.18	6.14	37.41	35.42	Average	100	243	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10594.60	36.12	54.00	-17.88	28.17	5.01	38.38	35.44	Average	101	349 HORIZONTAL
2	10608.20	49.01	74.00	-24.99	41.04	5.01	38.38	35.42	Peak	101	349 HORIZONTAL
3	15883.00	39.65	54.00	-14.35	31.64	6.15	37.30	35.44	Average	100	301 HORIZONTAL
4	15885.80	52.07	74.00	-21.93	44.06	6.15	37.30	35.44	Peak	100	301 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10513.80	48.80	74.00	-25.20	40.90	5.01	38.39	35.50	Peak	100	335 VERTICAL
2	10537.40	36.00	54.00	-18.00	28.08	5.01	38.39	35.48	Average	100	335 VERTICAL
3	15885.20	39.52	54.00	-14.48	31.51	6.15	37.30	35.44	Average	100	318 VERTICAL
4	15887.40	52.93	74.00	-21.07	44.92	6.15	37.30	35.44	Peak	100	318 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Cable Loss	Antenna Factor	Preamp Factor			
1	10597.40	49.66	74.00	-24.34	41.71	5.01	38.38	35.44	Peak	100	303 HORIZONTAL
2	10603.14	36.70	54.00	-17.30	28.73	5.01	38.38	35.42	Average	100	303 HORIZONTAL
3	15891.92	36.88	54.00	-17.12	28.87	6.15	37.30	35.44	Average	100	226 HORIZONTAL
4	15908.14	48.85	74.00	-25.15	40.85	6.15	37.29	35.44	Peak	100	226 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Cable Loss	Antenna Factor	Preamp Factor			
1	10594.26	37.03	54.00	-16.97	29.08	5.01	38.38	35.44	Average	100	185 VERTICAL
2	10599.74	49.36	74.00	-24.64	41.39	5.01	38.38	35.42	Peak	100	185 VERTICAL
3	15906.76	49.05	74.00	-24.95	41.05	6.15	37.29	35.44	Peak	100	106 VERTICAL
4	15908.14	36.88	54.00	-17.12	28.88	6.15	37.29	35.44	Average	100	106 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			Loss	Factor	Factor			
MHz	dBmV/m	dBmV/m	dB	dBmV	dB	dB/m	dB	cm	deg		
1	10633.94	36.56	54.00	-17.44	28.57	5.01	38.37	35.39	Average	100	320 HORIZONTAL
2	10634.07	48.90	74.00	-25.10	40.91	5.01	38.37	35.39	Peak	100	320 HORIZONTAL
3	15950.19	36.54	54.00	-17.46	28.60	6.15	37.23	35.44	Average	100	228 HORIZONTAL
4	15952.44	48.96	74.00	-25.04	41.02	6.15	37.23	35.44	Peak	100	228 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			Loss	Factor	Factor			
MHz	dBmV/m	dBmV/m	dB	dBmV	dB	dB/m	dB	cm	deg		
1	10630.38	36.58	54.00	-17.42	28.59	5.01	38.37	35.39	Average	100	183 VERTICAL
2	10636.57	49.64	74.00	-24.36	41.65	5.01	38.37	35.39	Peak	100	183 VERTICAL
3	15950.83	36.56	54.00	-17.44	28.62	6.15	37.23	35.44	Average	100	118 VERTICAL
4	15951.67	49.04	74.00	-24.96	41.10	6.15	37.23	35.44	Peak	100	118 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	10996.47	49.11	74.00	-24.89	40.88	5.01	38.32	35.10	Peak	100	275	HORIZONTAL
2	11002.15	36.57	54.00	-17.43	28.34	5.01	38.32	35.10	Average	100	275	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	10997.92	49.76	74.00	-24.24	41.55	5.01	38.30	35.10	Peak	100	148	VERTICAL
2	11006.15	36.76	54.00	-17.24	28.54	5.01	38.32	35.11	Average	100	148	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m					
MHz	dBuV/m	dBuV/m	dB								cm	deg	
1 11158.88	38.22	54.00	-15.78	29.88	5.04	38.47	35.17	Average			100	123	HORIZONTAL
2 11169.70	49.60	74.00	-24.40	41.25	5.05	38.47	35.17	Peak			100	123	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m					
MHz	dBuV/m	dBuV/m	dB								cm	deg	
1 11161.68	42.73	54.00	-11.27	34.39	5.04	38.47	35.17	Average			109	293	VERTICAL
2 11168.73	55.47	74.00	-18.53	47.12	5.05	38.47	35.17	Peak			109	293	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	
1	11402.44	37.18	54.00	-16.82	28.63	5.10	38.70	35.25	Average	100	43 HORIZONTAL
2	11407.02	49.90	74.00	-24.10	41.35	5.10	38.70	35.25	Peak	100	43 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	
1	11396.19	50.38	74.00	-23.62	41.85	5.10	38.68	35.25	Peak	100	102 VERTICAL
2	11400.22	37.38	54.00	-16.62	28.83	5.10	38.70	35.25	Average	100	102 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15804.33	49.38	74.00	-24.62	41.28	6.14	37.39	35.43	Peak	100	69	HORIZONTAL
2	15815.96	36.88	54.00	-17.12	28.80	6.14	37.37	35.43	Average	100	69	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15807.05	48.89	74.00	-25.11	40.79	6.14	37.39	35.43	Peak	100	146	VERTICAL
2	15811.54	37.01	54.00	-16.99	28.93	6.14	37.37	35.43	Average	100	146	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10620.90	36.67	54.00	-17.33	28.70	5.01	38.38	35.42	Average			100	73	HORIZONTAL
2	10626.57	49.91	74.00	-24.09	41.91	5.01	38.38	35.39	Peak			100	73	HORIZONTAL
3	15925.16	37.01	54.00	-16.99	29.03	6.15	37.27	35.44	Average			100	159	HORIZONTAL
4	15929.17	49.78	74.00	-24.22	41.80	6.15	37.27	35.44	Peak			100	159	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10610.29	49.56	74.00	-24.44	41.59	5.01	38.38	35.42	Peak			100	183	VERTICAL
2	10612.92	36.58	54.00	-17.42	28.61	5.01	38.38	35.42	Average			100	183	VERTICAL
3	15921.15	49.14	74.00	-24.86	41.16	6.15	37.27	35.44	Peak			100	270	VERTICAL
4	15922.88	37.29	54.00	-16.71	29.31	6.15	37.27	35.44	Average			100	270	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11013.75	49.49	74.00	-24.51	41.25	5.02	38.33	35.11	Peak	100	99	HORIZONTAL
2	11015.03	36.55	54.00	-17.45	28.31	5.02	38.33	35.11	Average	100	99	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11015.03	36.61	54.00	-17.39	28.38	5.02	38.32	35.11	Average	100	214	VERTICAL
2	11027.05	49.27	74.00	-24.73	41.03	5.02	38.33	35.11	Peak	100	214	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	11098.62	49.78	74.00	-24.22	41.49	5.03	38.40	35.14	Peak	100	315	HORIZONTAL
2	11101.73	37.10	54.00	-16.90	28.81	5.03	38.40	35.14	Average	100	315	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	11101.44	49.41	74.00	-24.59	41.12	5.03	38.40	35.14	Peak	100	211	VERTICAL
2	11102.88	37.45	54.00	-16.55	29.16	5.03	38.40	35.14	Average	100	211	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11335.91	49.84	74.00	-24.16	41.36	5.08	38.63	35.23	Peak	100	166 HORIZONTAL
2	11340.08	37.93	54.00	-16.07	29.46	5.08	38.63	35.24	Average	100	166 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11338.88	41.19	54.00	-12.81	32.72	5.08	38.63	35.24	Average	100	320 VERTICAL
2	11346.89	54.52	74.00	-19.48	46.02	5.09	38.65	35.24	Peak	100	320 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15862.07	36.62	54.00	-17.38	28.61	6.14	37.32	35.45	Average	100	295	HORIZONTAL
2	15862.71	47.54	74.00	-26.46	39.53	6.14	37.32	35.45	Peak	100	295	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15888.59	48.49	74.00	-25.51	40.48	6.15	37.30	35.44	Peak	100	214	VERTICAL
2	15890.35	36.75	54.00	-17.25	28.74	6.15	37.30	35.44	Average	100	214	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11036.68	49.10	74.00	-24.90	40.86	5.02	38.34	35.12	Peak	100	41	HORIZONTAL
2	11041.65	36.68	54.00	-17.32	28.42	5.02	38.36	35.12	Average	100	41	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11035.16	49.08	74.00	-24.92	40.85	5.02	38.33	35.12	Peak	100	147	VERTICAL
2	11060.08	36.85	54.00	-17.15	28.58	5.03	38.37	35.13	Average	100	147	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15774.10	37.25	54.00	-16.75	29.11	6.14	37.42	35.42	Average	100	59	HORIZONTAL
2	15786.25	50.35	74.00	-23.65	42.22	6.14	37.41	35.42	Peak	100	59	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15779.94	51.91	74.00	-22.09	43.78	6.14	37.41	35.42	Peak	100	250	VERTICAL
2	15779.97	38.92	54.00	-15.08	30.79	6.14	37.41	35.42	Average	100	250	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10555.84	36.22	54.00	-17.78	28.28	5.01	38.39	35.46	Average	100	340 HORIZONTAL
2	10565.72	49.51	74.00	-24.49	41.57	5.01	38.39	35.46	Peak	100	340 HORIZONTAL
3	15835.84	53.29	74.00	-20.71	45.23	6.14	37.36	35.44	Peak	100	353 HORIZONTAL
4	15849.40	38.98	54.00	-15.02	30.95	6.14	37.34	35.45	Average	100	353 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10567.08	36.24	54.00	-17.76	28.30	5.01	38.39	35.46	Average	100	335 VERTICAL
2	10568.36	49.34	74.00	-24.66	41.40	5.01	38.39	35.46	Peak	100	335 VERTICAL
3	15835.84	39.24	54.00	-14.76	31.18	6.14	37.36	35.44	Average	100	313 VERTICAL
4	15837.40	53.20	74.00	-20.80	45.14	6.14	37.36	35.44	Peak	100	313 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10600.16	36.37	54.00	-17.63	28.40	5.01	38.38	35.42	Average	100	150 HORIZONTAL
2	10600.19	48.38	74.00	-25.62	40.41	5.01	38.38	35.42	Peak	100	150 HORIZONTAL
3	15899.29	36.86	54.00	-17.14	28.86	6.15	37.29	35.44	Average	100	289 HORIZONTAL
4	15907.82	49.80	74.00	-24.20	41.80	6.15	37.29	35.44	Peak	100	289 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10600.93	36.39	54.00	-17.61	28.42	5.01	38.38	35.42	Average	100	180 VERTICAL
2	10601.09	47.77	74.00	-26.23	39.80	5.01	38.38	35.42	Peak	100	180 VERTICAL
3	15905.35	36.95	54.00	-17.05	28.95	6.15	37.29	35.44	Average	100	266 VERTICAL
4	15907.50	49.39	74.00	-24.61	41.39	6.15	37.29	35.44	Peak	100	266 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			Loss	Factor	Factor			
1	10641.99	36.54	54.00	-17.46	28.55	5.01	38.37	35.39	Average	100	314 HORIZONTAL
2	10643.69	49.02	74.00	-24.98	41.03	5.01	38.37	35.39	Peak	100	314 HORIZONTAL
3	15952.05	36.51	54.00	-17.49	28.57	6.15	37.23	35.44	Average	100	260 HORIZONTAL
4	15954.74	49.17	74.00	-24.83	41.23	6.15	37.23	35.44	Peak	100	260 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			Loss	Factor	Factor			
1	10640.99	36.56	54.00	-17.44	28.57	5.01	38.37	35.39	Average	100	173 VERTICAL
2	10649.07	49.89	74.00	-24.11	41.88	5.01	38.37	35.37	Peak	100	173 VERTICAL
3	15952.02	36.64	54.00	-17.36	28.70	6.15	37.23	35.44	Average	100	95 VERTICAL
4	15953.17	49.13	74.00	-24.87	41.19	6.15	37.23	35.44	Peak	100	95 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10992.82	49.54	74.00	-24.46	41.31	5.01	38.32	35.10	Peak			100	36	HORIZONTAL
2	11004.65	36.75	54.00	-17.25	28.52	5.01	38.32	35.10	Average			100	36	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m	dB	dB	cm	deg	
1	10996.54	49.10	74.00	-24.90	40.89	5.01	38.30	35.10	Peak			100	185	VERTICAL
2	11006.22	37.06	54.00	-16.94	28.84	5.01	38.32	35.11	Average			100	186	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11156.63	37.70	54.00	-16.30	29.37	5.04	38.45	35.16	Average	100	133 HORIZONTAL
2	11160.16	49.55	74.00	-24.45	41.21	5.04	38.47	35.17	Peak	100	133 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11156.39	53.68	74.00	-20.32	45.35	5.04	38.45	35.16	Peak	100	257 VERTICAL
2	11157.92	39.87	54.00	-14.13	31.54	5.04	38.45	35.16	Average	100	257 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11390.87	49.58	74.00	-24.42	41.06	5.09	38.68	35.25	Peak	100	318 HORIZONTAL
2	11402.92	37.17	54.00	-16.83	28.62	5.10	38.70	35.25	Average	100	318 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11390.42	37.19	54.00	-16.81	28.67	5.09	38.68	35.25	Average	100	235 VERTICAL
2	11394.26	49.48	74.00	-24.52	40.95	5.10	38.68	35.25	Peak	100	235 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB		cm	deg	
1	15807.36	49.46	74.00	-24.54	41.36	6.14	37.39	35.43	Peak	100	97	HORIZONTAL
2	15819.46	37.24	54.00	-16.76	29.17	6.14	37.37	35.44	Average	100	97	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBuV	dB		cm	deg	
1	15803.19	37.89	54.00	-16.11	29.79	6.14	37.39	35.43	Average	100	218	VERTICAL
2	15833.72	49.57	74.00	-24.43	41.51	6.14	37.36	35.44	Peak	100	218	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10599.17	36.37	54.00	-17.63	28.40	5.01	38.38	35.42	Average	100	323 HORIZONTAL
2	10611.11	49.71	74.00	-24.29	41.74	5.01	38.38	35.42	Peak	100	323 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10604.29	36.39	54.00	-17.61	28.42	5.01	38.38	35.42	Average	100	254 VERTICAL
2	10612.63	48.95	74.00	-25.05	40.98	5.01	38.38	35.42	Peak	100	254 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11005.90	36.66	54.00	-17.34	28.43	5.01	38.33	35.11	Average	100	73 HORIZONTAL
2	11036.19	49.77	74.00	-24.23	41.53	5.02	38.34	35.12	Peak	100	73 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10995.32	36.53	54.00	-17.47	28.32	5.01	38.30	35.10	Average	100	170 VERTICAL
2	11014.63	49.29	74.00	-24.71	41.06	5.02	38.32	35.11	Peak	100	170 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11099.84	49.01	74.00	-24.99	40.72	5.03	38.40	35.14	Peak	100	331 HORIZONTAL
2	11108.41	36.97	54.00	-17.03	28.67	5.03	38.42	35.15	Average	100	331 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11095.19	37.24	54.00	-16.76	28.95	5.03	38.40	35.14	Average	100	234 VERTICAL
2	11101.76	49.68	74.00	-24.32	41.39	5.03	38.40	35.14	Peak	100	234 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11340.80	37.94	54.00	-16.06	29.46	5.09	38.63	35.24	Average	100	180 HORIZONTAL
2	11345.61	49.08	74.00	-24.92	40.60	5.09	38.63	35.24	Peak	100	180 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11339.52	39.42	54.00	-14.58	30.95	5.08	38.63	35.24	Average	100	241 VERTICAL
2	11341.28	54.92	74.00	-19.08	46.44	5.09	38.63	35.24	Peak	100	241 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	15857.32	49.81	74.00	-24.19	41.78	6.14	37.34	35.45	Peak	100	192	HORIZONTAL
2	15864.23	37.45	54.00	-16.55	29.44	6.14	37.32	35.45	Average	100	192	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	15863.59	37.53	54.00	-16.47	29.52	6.14	37.32	35.45	Average	100	292	VERTICAL
2	15887.31	50.14	74.00	-23.86	42.13	6.15	37.30	35.44	Peak	100	292	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 3 (Ant.4 Yagi antenna / 8dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11060.08	49.62	74.00	-24.38	41.35	5.03	38.37	35.13	Peak	100	83 HORIZONTAL
2	11075.14	36.90	54.00	-17.10	28.62	5.03	38.38	35.13	Average	100	83 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11045.26	37.15	54.00	-16.85	28.90	5.02	38.35	35.12	Average	100	185 VERTICAL
2	11062.40	49.45	74.00	-24.55	41.18	5.03	38.37	35.13	Peak	100	185 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	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Limit	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15771.96	52.13	74.00	-21.87	43.99	6.14	37.42	35.42	Peak	100	189	HORIZONTAL
2	15776.28	39.56	54.00	-14.44	31.43	6.14	37.41	35.42	Average	100	189	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Limit	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15780.16	53.02	74.00	-20.98	44.89	6.14	37.41	35.42	Peak	100	107	VERTICAL
2	15784.48	39.42	54.00	-14.58	31.29	6.14	37.41	35.42	Average	100	107	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dBuV	dB			
1	10596.12	36.61	54.00	-17.39	28.66	5.01	38.38	35.44	Average	100	174 HORIZONTAL
2	10597.44	49.17	74.00	-24.83	41.22	5.01	38.38	35.44	Peak	100	174 HORIZONTAL
3	15899.96	39.66	54.00	-14.34	31.66	6.15	37.29	35.44	Average	100	269 HORIZONTAL
4	15906.92	53.09	74.00	-20.91	45.09	6.15	37.29	35.44	Peak	100	269 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dBuV	dB			
1	10606.80	36.29	54.00	-17.71	28.32	5.01	38.38	35.42	Average	100	111 VERTICAL
2	10607.00	47.29	74.00	-26.71	39.32	5.01	38.38	35.42	Peak	100	111 VERTICAL
3	15900.84	39.86	54.00	-14.14	31.86	6.15	37.29	35.44	Average	100	186 VERTICAL
4	15905.32	52.68	74.00	-21.32	44.68	6.15	37.29	35.44	Peak	100	186 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10633.48	49.70	74.00	-24.30	41.71	5.01	38.37	35.39	Peak			100	164	HORIZONTAL
2	10642.04	36.48	54.00	-17.52	28.49	5.01	38.37	35.39	Average			100	164	HORIZONTAL
3	15951.48	51.76	74.00	-22.24	43.82	6.15	37.23	35.44	Peak			100	194	HORIZONTAL
4	15961.36	39.11	54.00	-14.89	31.17	6.15	37.23	35.44	Average			100	194	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10630.96	36.37	54.00	-17.63	28.38	5.01	38.37	35.39	Average			100	159	VERTICAL
2	10646.20	50.84	74.00	-23.16	42.85	5.01	38.37	35.39	Peak			100	159	VERTICAL
3	15965.20	51.80	74.00	-22.20	43.87	6.15	37.22	35.44	Peak			100	283	VERTICAL
4	15966.96	39.10	54.00	-14.90	31.17	6.15	37.22	35.44	Average			100	283	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	Pol/Phase
1	10997.40	49.38	74.00	-24.62	41.15	5.01	38.32	35.10	Peak	100	213	HORIZONTAL
2	11001.56	36.98	54.00	-17.02	28.75	5.01	38.32	35.10	Average	100	213	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	Pol/Phase
1	10995.96	37.01	54.00	-16.99	28.80	5.01	38.30	35.10	Average	100	280	VERTICAL
2	11009.20	49.68	74.00	-24.32	41.45	5.02	38.32	35.11	Peak	100	280	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11156.20	40.51	54.00	-13.49	32.18	5.04	38.45	35.16	Average	121	60 HORIZONTAL
2	11158.76	53.66	74.00	-20.34	45.32	5.04	38.47	35.17	Peak	121	60 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11154.68	37.46	54.00	-16.54	29.13	5.04	38.45	35.16	Average	100	144 VERTICAL
2	11156.88	50.55	74.00	-23.45	42.22	5.04	38.45	35.16	Peak	100	144 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11401.40	38.44	54.00	-15.56	29.89	5.10	38.70	35.25	Average	100	46 HORIZONTAL
2	11403.36	51.59	74.00	-22.41	43.04	5.10	38.70	35.25	Peak	100	46 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11391.04	50.31	74.00	-23.69	41.79	5.09	38.68	35.25	Peak	100	171 VERTICAL
2	11404.16	37.36	54.00	-16.64	28.81	5.10	38.70	35.25	Average	100	171 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15814.08	52.17	74.00	-21.83	44.09	6.14	37.37	35.43	Peak	100	264 HORIZONTAL
2	15815.00	39.46	54.00	-14.54	31.38	6.14	37.37	35.43	Average	100	264 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15808.64	39.35	54.00	-14.65	31.25	6.14	37.39	35.43	Average	100	153 VERTICAL
2	15818.96	52.73	74.00	-21.27	44.66	6.14	37.37	35.44	Peak	100	153 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Loss			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dB	dB	dB/m				cm	deg	
1	10618.80	36.40	54.00	-17.60	28.43	5.01	38.38	35.42	Average			100	212	HORIZONTAL
2	10627.96	49.15	74.00	-24.85	41.15	5.01	38.38	35.39	Peak			100	212	HORIZONTAL
3	15920.16	39.22	54.00	-14.78	31.24	6.15	37.27	35.44	Average			100	306	HORIZONTAL
4	15920.40	51.68	74.00	-22.32	43.70	6.15	37.27	35.44	Peak			100	306	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Loss			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dB	dB	dB/m				cm	deg	
1	10614.52	36.52	54.00	-17.48	28.55	5.01	38.38	35.42	Average			100	107	VERTICAL
2	10626.84	50.23	74.00	-23.77	42.23	5.01	38.38	35.39	Peak			100	107	VERTICAL
3	15922.44	52.47	74.00	-21.53	44.49	6.15	37.27	35.44	Peak			100	192	VERTICAL
4	15923.92	39.16	54.00	-14.84	31.18	6.15	37.27	35.44	Average			100	192	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dBmV	dB		cm	deg	
1	11026.92	37.09	54.00	-16.91	28.84	5.02	38.34	35.11	Average	100	187	HORIZONTAL
2	11029.96	49.37	74.00	-24.63	41.12	5.02	38.34	35.11	Peak	100	187	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dBmV	dB		cm	deg	
1	11010.44	50.28	74.00	-23.72	42.05	5.02	38.32	35.11	Peak	100	289	VERTICAL
2	11013.20	36.88	54.00	-17.12	28.65	5.02	38.32	35.11	Average	100	289	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBmV	dB	dB/m		cm	deg	
MHz	dBmV/m	dBmV/m	dB	dBmV	dB	dB/m	dB	cm	deg	cm	deg	
1	11099.40	37.83	54.00	-16.17	29.54	5.03	38.40	35.14	Average	100	162	HORIZONTAL
2	11102.12	50.07	74.00	-23.93	41.78	5.03	38.40	35.14	Peak	100	162	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBmV	dB	dBmV		cm	deg	
MHz	dBmV/m	dBmV/m	dB	dBmV	dB	dB/m	dB	cm	deg	cm	deg	
1	11105.40	49.96	74.00	-24.04	41.67	5.03	38.40	35.14	Peak	100	49	VERTICAL
2	11109.12	37.40	54.00	-16.60	29.10	5.03	38.42	35.15	Average	100	49	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB									
1 11339.04	39.74	54.00	-14.26	31.27	5.08	38.63	35.24	Average	100	61	HORIZONTAL	
2 11340.24	53.17	74.00	-20.83	44.70	5.08	38.63	35.24	Peak	100	61	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB									
1 11337.88	50.16	74.00	-23.84	41.69	5.08	38.63	35.24	Peak	100	256	VERTICAL	
2 11344.68	37.75	54.00	-16.25	29.27	5.09	38.63	35.24	Average	100	256	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15849.10	51.58	74.00	-22.42	43.55	6.14	37.34	35.45	Peak	100	190 HORIZONTAL
2	15850.40	39.92	54.00	-14.08	31.89	6.14	37.34	35.45	Average	100	190 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15863.60	39.82	54.00	-14.18	31.81	6.14	37.32	35.45	Average	100	321 VERTICAL
2	15864.60	50.70	74.00	-23.30	42.69	6.14	37.32	35.45	Peak	100	321 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11041.70	50.27	74.00	-23.73	42.01	5.02	38.36	35.12	Peak	100	80 HORIZONTAL
2	11074.20	37.33	54.00	-16.67	29.05	5.03	38.38	35.13	Average	100	80 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11075.20	37.14	54.00	-16.86	28.86	5.03	38.38	35.13	Average	100	199 VERTICAL
2	11075.60	48.64	74.00	-25.36	40.36	5.03	38.38	35.13	Peak	100	199 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15778.90	40.83	54.00	-13.17	32.70	6.14	37.41	35.42	Average	100	202	HORIZONTAL
2	15779.30	52.70	74.00	-21.30	44.57	6.14	37.41	35.42	Peak	100	202	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15775.24	54.77	74.00	-19.23	46.63	6.14	37.42	35.42	Peak	100	228	VERTICAL
2	15775.80	41.82	54.00	-12.18	33.68	6.14	37.42	35.42	Average	100	228	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10598.00	50.73	74.00	-23.27	42.76	5.01	38.38	35.42	Peak	100	165 HORIZONTAL
2	10602.76	37.92	54.00	-16.08	29.95	5.01	38.38	35.42	Average	100	165 HORIZONTAL
3	15906.16	52.41	74.00	-21.59	44.41	6.15	37.29	35.44	Peak	100	286 HORIZONTAL
4	15907.32	39.90	54.00	-14.10	31.90	6.15	37.29	35.44	Average	100	286 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10598.16	50.25	74.00	-23.75	42.28	5.01	38.38	35.42	Peak	100	114 VERTICAL
2	10599.48	37.53	54.00	-16.47	29.56	5.01	38.38	35.42	Average	100	114 VERTICAL
3	15895.52	52.48	74.00	-21.52	44.47	6.15	37.30	35.44	Peak	100	175 VERTICAL
4	15899.08	40.06	54.00	-13.94	32.06	6.15	37.29	35.44	Average	100	175 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m				cm	deg	
1	10634.00	50.22	74.00	-23.78	42.23	5.01	38.37	35.39	Peak	100	146	HORIZONTAL		
2	10646.12	37.49	54.00	-16.51	29.50	5.01	38.37	35.39	Average	100	146	HORIZONTAL		
3	15963.04	52.90	74.00	-21.10	44.96	6.15	37.23	35.44	Peak	100	237	HORIZONTAL		
4	15966.16	39.80	54.00	-14.20	31.87	6.15	37.22	35.44	Average	100	237	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	Line	dB	dBuV	dB	dB/m				cm	deg	
1	10638.92	37.51	54.00	-16.49	29.52	5.01	38.37	35.39	Average	100	262	VERTICAL		
2	10641.92	50.42	74.00	-23.58	42.43	5.01	38.37	35.39	Peak	100	262	VERTICAL		
3	15954.00	53.08	74.00	-20.92	45.14	6.15	37.23	35.44	Peak	100	323	VERTICAL		
4	15969.12	39.81	54.00	-14.19	31.88	6.15	37.22	35.44	Average	100	323	VERTICAL		



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	10997.60	49.29	74.00	-24.71	41.06	5.01	38.32	35.10	Peak	100	172 HORIZONTAL
2	11000.84	36.64	54.00	-17.36	28.41	5.01	38.32	35.10	Average	100	172 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	10990.96	48.77	74.00	-25.23	40.56	5.01	38.30	35.10	Peak	100	87 VERTICAL
2	11009.68	36.56	54.00	-17.44	28.33	5.02	38.32	35.11	Average	100	87 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11151.50	52.69	74.00	-21.31	44.36	5.04	38.45	35.16	Peak	100	328	HORIZONTAL
2	11153.90	40.43	54.00	-13.57	32.10	5.04	38.45	35.16	Average	100	328	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11151.40	38.55	54.00	-15.45	30.22	5.04	38.45	35.16	Average	100	206	VERTICAL
2	11175.10	50.51	74.00	-23.49	42.16	5.05	38.47	35.17	Peak	100	206	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11398.28	50.12	74.00	-23.88	41.57	5.10	38.70	35.25	Peak	100	169 HORIZONTAL
2	11400.60	37.36	54.00	-16.64	28.81	5.10	38.70	35.25	Average	100	169 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11392.20	49.66	74.00	-24.34	41.13	5.10	38.68	35.25	Peak	100	260 VERTICAL
2	11398.68	36.98	54.00	-17.02	28.43	5.10	38.70	35.25	Average	100	260 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15801.48	39.93	54.00	-14.07	31.83	6.14	37.39	35.43	Average	100	162 HORIZONTAL
2	15810.56	52.57	74.00	-21.43	44.49	6.14	37.37	35.43	Peak	100	162 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15804.16	39.96	54.00	-14.04	31.86	6.14	37.39	35.43	Average	100	82 VERTICAL
2	15806.88	52.43	74.00	-21.57	44.33	6.14	37.39	35.43	Peak	100	82 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10615.12	50.93	74.00	-23.07	42.96	5.01	38.38	35.42	Peak	100	203 HORIZONTAL
2	10622.80	37.54	54.00	-16.46	29.57	5.01	38.38	35.42	Average	100	203 HORIZONTAL
3	15922.08	39.84	54.00	-14.16	31.86	6.15	37.27	35.44	Average	100	270 HORIZONTAL
4	15923.32	52.43	74.00	-21.57	44.45	6.15	37.27	35.44	Peak	100	270 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10620.12	49.86	74.00	-24.14	41.89	5.01	38.38	35.42	Peak	100	111 VERTICAL
2	10627.64	37.36	54.00	-16.64	29.36	5.01	38.38	35.39	Average	100	111 VERTICAL
3	15921.52	39.89	54.00	-14.11	31.91	6.15	37.27	35.44	Average	100	179 VERTICAL
4	15926.56	52.13	74.00	-21.87	44.15	6.15	37.27	35.44	Peak	100	179 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
		Line	dB			dBuV	dB	dB/m		cm	deg		
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg	Pol/Phase
1	11018.16	36.72	54.00	-17.28	28.48	5.02	38.33	35.11	Average	100	184	HORIZONTAL	
2	11026.52	48.58	74.00	-25.42	40.33	5.02	38.34	35.11	Peak	100	184	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
		Line	dB			dBuV	dB	dB/m		cm	deg		
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg	Pol/Phase
1	11015.36	48.85	74.00	-25.15	40.62	5.02	38.32	35.11	Peak	100	280	VERTICAL	
2	11025.12	36.53	54.00	-17.47	28.29	5.02	38.33	35.11	Average	100	280	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11098.44	50.44	74.00	-23.56	42.15	5.03	38.40	35.14	Peak	100	179	HORIZONTAL
2	11108.44	38.02	54.00	-15.98	29.72	5.03	38.42	35.15	Average	100	179	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11096.32	37.48	54.00	-16.52	29.19	5.03	38.40	35.14	Average	100	64	VERTICAL
2	11102.12	49.67	74.00	-24.33	41.38	5.03	38.40	35.14	Peak	100	64	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11335.84	56.78	74.00	-17.22	48.30	5.08	38.63	35.23	Peak	125	84	HORIZONTAL
2	11336.84	43.96	54.00	-10.04	35.49	5.08	38.63	35.24	Average	125	84	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11337.84	37.29	54.00	-16.71	28.82	5.08	38.63	35.24	Average	100	276	VERTICAL
2	11339.72	50.15	74.00	-23.85	41.68	5.08	38.63	35.24	Peak	100	276	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15862.60	52.20	74.00	-21.80	44.19	6.14	37.32	35.45	Peak	100	184 HORIZONTAL
2	15893.20	39.77	54.00	-14.23	31.76	6.15	37.30	35.44	Average	100	184 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15853.70	39.75	54.00	-14.25	31.72	6.14	37.34	35.45	Average	100	267 VERTICAL
2	15883.30	52.28	74.00	-21.72	44.27	6.15	37.30	35.44	Peak	100	267 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11073.70	50.05	74.00	-23.95	41.77	5.03	38.38	35.13	Peak	100	65 HORIZONTAL
2	11082.00	36.91	54.00	-17.09	28.64	5.03	38.38	35.14	Average	100	65 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11075.00	50.17	74.00	-23.83	41.89	5.03	38.38	35.13	Peak	100	168 VERTICAL
2	11079.80	36.97	54.00	-17.03	28.69	5.03	38.38	35.13	Average	100	168 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15782.96	39.90	54.00	-14.10	31.77	6.14	37.41	35.42	Average	100	23	HORIZONTAL
2	15784.52	51.68	74.00	-22.32	43.55	6.14	37.41	35.42	Peak	100	23	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15776.00	39.48	54.00	-14.52	31.34	6.14	37.42	35.42	Average	100	219	VERTICAL
2	15777.08	52.06	74.00	-21.94	43.93	6.14	37.41	35.42	Peak	100	219	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10600.34	37.01	54.00	-16.99	29.04	5.01	38.38	35.42	Average	100	164 HORIZONTAL
2	10600.34	48.21	74.00	-25.79	40.24	5.01	38.38	35.42	Peak	100	164 HORIZONTAL
3	15900.07	51.35	74.00	-22.65	43.35	6.15	37.29	35.44	Peak	100	246 HORIZONTAL
4	15900.36	39.09	54.00	-14.91	31.09	6.15	37.29	35.44	Average	100	246 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10600.91	36.36	54.00	-17.64	28.39	5.01	38.38	35.42	Average	100	147 VERTICAL
2	10600.91	48.20	74.00	-25.80	40.23	5.01	38.38	35.42	Peak	100	147 VERTICAL
3	15899.83	39.13	54.00	-14.87	31.13	6.15	37.29	35.44	Average	100	243 VERTICAL
4	15901.05	51.55	74.00	-22.45	43.55	6.15	37.29	35.44	Peak	100	243 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10639.94	36.50	54.00	-17.50	28.51	5.01	38.37	35.39	Average	100	101 HORIZONTAL
2	10640.34	49.38	74.00	-24.62	41.39	5.01	38.37	35.39	Peak	100	101 HORIZONTAL
3	15958.43	39.02	54.00	-14.98	31.08	6.15	37.23	35.44	Average	100	208 HORIZONTAL
4	15960.24	51.22	74.00	-22.78	43.28	6.15	37.23	35.44	Peak	100	208 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10638.93	48.98	74.00	-25.02	40.99	5.01	38.37	35.39	Peak	100	164 VERTICAL
2	10641.28	36.68	54.00	-17.32	28.69	5.01	38.37	35.39	Average	100	164 VERTICAL
3	15958.55	39.02	54.00	-14.98	31.08	6.15	37.23	35.44	Average	100	296 VERTICAL
4	15961.77	52.06	74.00	-21.94	44.12	6.15	37.23	35.44	Peak	100	296 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	10997.10	35.09	54.00	-18.91	26.86	5.01	38.32	35.10	Average	100	202	HORIZONTAL
2	10997.24	47.27	74.00	-26.73	39.04	5.01	38.32	35.10	Peak	100	202	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	10996.98	47.63	74.00	-26.37	39.42	5.01	38.30	35.10	Peak	100	119	VERTICAL
2	10999.78	34.86	54.00	-19.14	26.65	5.01	38.30	35.10	Average	100	119	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.48	52.68	74.00	-21.32	44.34	5.04	38.47	35.17	Peak	100	67	HORIZONTAL
2	11160.24	40.23	54.00	-13.77	31.89	5.04	38.47	35.17	Average	100	67	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11165.28	49.44	74.00	-24.56	41.09	5.05	38.47	35.17	Peak	100	332	VERTICAL
2	11167.68	37.89	54.00	-16.11	29.54	5.05	38.47	35.17	Average	100	332	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11398.20	48.72	74.00	-25.28	40.17	5.10	38.70	35.25	Peak	100	22 HORIZONTAL
2	11401.68	36.41	54.00	-17.59	27.86	5.10	38.70	35.25	Average	100	22 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11391.92	36.17	54.00	-17.83	27.64	5.10	38.68	35.25	Average	100	163 VERTICAL
2	11399.24	49.57	74.00	-24.43	41.02	5.10	38.70	35.25	Peak	100	163 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15800.96	38.62	54.00	-15.38	30.52	6.14	37.39	35.43	Average	100	201 HORIZONTAL
2	15813.28	50.94	74.00	-23.06	42.86	6.14	37.37	35.43	Peak	100	201 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15801.80	50.93	74.00	-23.07	42.83	6.14	37.39	35.43	Peak	100	284 VERTICAL
2	15802.32	38.65	54.00	-15.35	30.55	6.14	37.39	35.43	Average	100	284 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Cable Loss	Antenna Factor	Preamp Factor			
1	10616.56	37.05	54.00	-16.95	29.08	5.01	38.38	35.42	Average	100	148 HORIZONTAL
2	10622.94	48.60	74.00	-25.40	40.63	5.01	38.38	35.42	Peak	100	148 HORIZONTAL
3	15925.18	39.30	54.00	-14.70	31.32	6.15	37.27	35.44	Average	100	264 HORIZONTAL
4	15926.48	51.34	74.00	-22.66	43.36	6.15	37.27	35.44	Peak	100	264 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Cable Loss	Antenna Factor	Preamp Factor			
1	10620.92	36.65	54.00	-17.35	28.68	5.01	38.38	35.42	Average	100	137 VERTICAL
2	10624.10	49.46	74.00	-24.54	41.46	5.01	38.38	35.39	Peak	100	137 VERTICAL
3	15925.90	51.46	74.00	-22.54	43.48	6.15	37.27	35.44	Peak	100	231 VERTICAL
4	15930.06	39.39	54.00	-14.61	31.43	6.15	37.25	35.44	Average	100	231 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11018.56	47.96	74.00	-26.04	39.72	5.02	38.33	35.11	Peak	100	66 HORIZONTAL
2	11029.04	34.99	54.00	-19.01	26.74	5.02	38.34	35.11	Average	100	66 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11010.64	47.95	74.00	-26.05	39.72	5.02	38.32	35.11	Peak	100	188 VERTICAL
2	11025.12	34.99	54.00	-19.01	26.75	5.02	38.33	35.11	Average	100	188 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11108.16	35.90	54.00	-18.10	27.60	5.03	38.42	35.15	Average	100	113 HORIZONTAL
2	11110.00	48.69	74.00	-25.31	40.39	5.03	38.42	35.15	Peak	100	113 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11105.12	35.79	54.00	-18.21	27.50	5.03	38.40	35.14	Average	100	251 VERTICAL
2	11109.04	48.54	74.00	-25.46	40.24	5.03	38.42	35.15	Peak	100	251 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11336.32	37.20	54.00	-16.80	28.72	5.08	38.63	35.23	Average	100	213	HORIZONTAL
2	11345.28	49.29	74.00	-24.71	40.81	5.09	38.63	35.24	Peak	100	213	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11330.20	48.51	74.00	-25.49	40.03	5.08	38.63	35.23	Peak	100	101	VERTICAL
2	11337.72	37.25	54.00	-16.75	28.78	5.08	38.63	35.24	Average	100	101	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	15849.60	52.36	74.00	-21.64	43.18	6.22	38.11	35.15	Peak	100	175 HORIZONTAL
2	15850.62	39.38	54.00	-14.62	30.20	6.22	38.11	35.15	Average	100	175 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	15845.56	52.17	74.00	-21.83	42.99	6.22	38.11	35.15	Peak	100	274 VERTICAL
2	15847.44	39.33	54.00	-14.67	30.15	6.22	38.11	35.15	Average	100	274 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11058.24	48.01	74.00	-25.99	39.75	5.02	38.37	35.13	Peak	100	170	HORIZONTAL
2	11064.58	35.32	54.00	-18.68	27.05	5.03	38.37	35.13	Average	100	170	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11059.58	35.42	54.00	-18.58	27.16	5.02	38.37	35.13	Average	100	262	VERTICAL
2	11064.50	48.15	74.00	-25.85	39.88	5.03	38.37	35.13	Peak	100	262	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15775.30	55.49	74.00	-18.51	47.35	6.14	37.42	35.42	Peak	101	161	HORIZONTAL
2	15777.50	43.07	54.00	-10.93	34.94	6.14	37.41	35.42	Average	101	161	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	15774.60	41.92	54.00	-12.08	33.78	6.14	37.42	35.42	Average	100	220	VERTICAL
2	15774.90	54.41	74.00	-19.59	46.27	6.14	37.42	35.42	Peak	100	220	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10602.00	38.45	54.00	-15.55	30.48	5.01	38.38	35.42	Average	100	251 HORIZONTAL
2	10617.90	50.68	74.00	-23.32	42.71	5.01	38.38	35.42	Peak	100	251 HORIZONTAL
3	15915.80	52.21	74.00	-21.79	44.23	6.15	37.27	35.44	Peak	100	307 HORIZONTAL
4	15919.50	39.77	54.00	-14.23	31.79	6.15	37.27	35.44	Average	100	307 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10606.70	37.26	54.00	-16.74	29.29	5.01	38.38	35.42	Average	100	126 VERTICAL
2	10608.90	50.67	74.00	-23.33	42.70	5.01	38.38	35.42	Peak	100	126 VERTICAL
3	15913.10	39.72	54.00	-14.28	31.74	6.15	37.27	35.44	Average	100	241 VERTICAL
4	15918.40	52.05	74.00	-21.95	44.07	6.15	37.27	35.44	Peak	100	241 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10617.90	37.17	54.00	-16.83	29.20	5.01	38.38	35.42	Average	100	180 HORIZONTAL
2	10647.70	49.43	74.00	-24.57	41.44	5.01	38.37	35.39	Peak	100	180 HORIZONTAL
3	15983.70	39.76	54.00	-14.24	31.84	6.15	37.20	35.43	Average	100	267 HORIZONTAL
4	15984.00	51.91	74.00	-22.09	43.99	6.15	37.20	35.43	Peak	100	267 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10636.84	48.94	74.00	-25.06	40.95	5.01	38.37	35.39	Peak	100	101 VERTICAL
2	10644.00	36.72	54.00	-17.28	28.73	5.01	38.37	35.39	Average	100	101 VERTICAL
3	15959.60	51.51	74.00	-22.49	43.57	6.15	37.23	35.44	Peak	100	175 VERTICAL
4	15969.52	39.54	54.00	-14.46	31.61	6.15	37.22	35.44	Average	100	175 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11001.40	47.60	74.00	-26.40	39.37	5.01	38.32	35.10	Peak	100	170	HORIZONTAL
2	11006.84	35.47	54.00	-18.53	27.24	5.01	38.33	35.11	Average	100	170	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	10991.36	47.85	74.00	-26.15	39.64	5.01	38.30	35.10	Peak	100	83	VERTICAL
2	11009.60	35.31	54.00	-18.69	27.08	5.02	38.32	35.11	Average	100	83	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11158.50	60.20	74.00	-13.80	51.86	5.04	38.47	35.17	Peak	122	67	HORIZONTAL
2	11158.70	46.77	54.00	-7.23	38.43	5.04	38.47	35.17	Average	122	67	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11153.30	50.36	74.00	-23.64	42.03	5.04	38.45	35.16	Peak	100	165	VERTICAL
2	11161.80	38.93	54.00	-15.07	30.58	5.05	38.47	35.17	Average	100	165	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dBmV	dB		cm	deg	
1	11396.16	36.89	54.00	-17.11	28.36	5.10	38.68	35.25	Average	100	213	HORIZONTAL
2	11410.00	48.96	74.00	-25.04	40.41	5.10	38.70	35.25	Peak	100	213	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dBmV	dB		cm	deg	
1	11391.88	48.19	74.00	-25.81	39.66	5.10	38.68	35.25	Peak	100	313	VERTICAL
2	11394.68	35.98	54.00	-18.02	27.45	5.10	38.68	35.25	Average	100	313	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	15808.36	51.41	74.00	-22.59	43.31	6.14	37.39	35.43	Peak	100	124 HORIZONTAL
2	15812.64	38.98	54.00	-15.02	30.90	6.14	37.37	35.43	Average	100	124 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	15804.24	52.06	74.00	-21.94	43.96	6.14	37.39	35.43	Peak	100	224 VERTICAL
2	15805.56	38.96	54.00	-15.04	30.86	6.14	37.39	35.43	Average	100	224 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10610.36	37.05	54.00	-16.95	29.08	5.01	38.38	35.42	Average	100	187 HORIZONTAL
2	10627.60	49.71	74.00	-24.29	41.71	5.01	38.38	35.39	Peak	100	187 HORIZONTAL
3	15920.92	39.56	54.00	-14.44	31.58	6.15	37.27	35.44	Average	100	248 HORIZONTAL
4	15931.36	52.12	74.00	-21.88	44.16	6.15	37.25	35.44	Peak	100	248 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10610.36	37.04	54.00	-16.96	29.07	5.01	38.38	35.42	Average	100	155 VERTICAL
2	10629.92	49.90	74.00	-24.10	41.90	5.01	38.38	35.39	Peak	100	155 VERTICAL
3	15921.28	52.17	74.00	-21.83	44.19	6.15	37.27	35.44	Peak	100	248 VERTICAL
4	15926.44	39.58	54.00	-14.42	31.60	6.15	37.27	35.44	Average	100	248 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11023.40	48.37	74.00	-25.63	40.12	5.02	38.34	35.11	Peak	100	204 HORIZONTAL
2	11029.68	35.57	54.00	-18.43	27.32	5.02	38.34	35.11	Average	100	204 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11012.60	48.80	74.00	-25.20	40.57	5.02	38.32	35.11	Peak	100	271 VERTICAL
2	11027.08	35.63	54.00	-18.37	27.39	5.02	38.33	35.11	Average	100	271 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11097.56	49.40	74.00	-24.60	41.11	5.03	38.40	35.14	Peak	100	180 HORIZONTAL
2	11108.72	38.00	54.00	-16.00	29.70	5.03	38.42	35.15	Average	100	180 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11094.88	37.03	54.00	-16.97	28.74	5.03	38.40	35.14	Average	100	106 VERTICAL
2	11096.04	48.93	74.00	-25.07	40.64	5.03	38.40	35.14	Peak	100	106 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11333.50	43.34	54.00	-10.66	34.86	5.08	38.63	35.23	Average	126	62 HORIZONTAL
2	11336.30	56.88	74.00	-17.12	48.40	5.08	38.63	35.23	Peak	126	62 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11340.50	39.10	54.00	-14.90	30.62	5.09	38.63	35.24	Average	100	295 VERTICAL
2	11343.20	48.84	74.00	-25.16	40.36	5.09	38.63	35.24	Peak	100	295 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15884.70	51.23	74.00	-22.77	43.22	6.15	37.30	35.44	Peak	100	265	HORIZONTAL
2	15889.70	39.12	54.00	-14.88	31.11	6.15	37.30	35.44	Average	100	265	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15877.60	52.23	74.00	-21.77	44.21	6.14	37.32	35.44	Peak	100	61	VERTICAL
2	15894.20	39.17	54.00	-14.83	31.16	6.15	37.30	35.44	Average	100	61	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11077.90	49.76	74.00	-24.24	41.48	5.03	38.38	35.13	Peak	100	300	HORIZONTAL
2	11084.90	36.76	54.00	-17.24	28.49	5.03	38.38	35.14	Average	100	300	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11074.00	49.32	74.00	-24.68	41.04	5.03	38.38	35.13	Peak	100	185	VERTICAL
2	11080.90	36.64	54.00	-17.36	28.36	5.03	38.38	35.13	Average	100	185	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15783.08	39.73	54.00	-14.27	31.60	6.14	37.41	35.42	Average	100	212 HORIZONTAL
2	15788.88	51.46	74.00	-22.54	43.33	6.14	37.41	35.42	Peak	100	212 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15778.68	39.72	54.00	-14.28	31.59	6.14	37.41	35.42	Average	100	107 VERTICAL
2	15784.44	51.42	74.00	-22.58	43.29	6.14	37.41	35.42	Peak	100	107 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10604.08	36.97	54.00	-17.03	29.00	5.01	38.38	35.42	Average	100	264 HORIZONTAL
2	10609.20	50.75	74.00	-23.25	42.78	5.01	38.38	35.42	Peak	100	264 HORIZONTAL
3	15903.04	51.83	74.00	-22.17	43.83	6.15	37.29	35.44	Peak	100	153 HORIZONTAL
4	15909.72	39.10	54.00	-14.90	31.10	6.15	37.29	35.44	Average	100	153 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10602.80	36.80	54.00	-17.20	28.83	5.01	38.38	35.42	Average	100	263 VERTICAL
2	10608.16	50.44	74.00	-23.56	42.47	5.01	38.38	35.42	Peak	100	263 VERTICAL
3	15904.20	51.38	74.00	-22.62	43.38	6.15	37.29	35.44	Peak	100	98 VERTICAL
4	15908.16	39.26	54.00	-14.74	31.26	6.15	37.29	35.44	Average	100	98 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	10632.32	36.52	54.00	-17.48	28.53	5.01	38.37	35.39	Average	100	172 HORIZONTAL
2	10642.00	48.92	74.00	-25.08	40.93	5.01	38.37	35.39	Peak	100	172 HORIZONTAL
3	15953.04	51.31	74.00	-22.69	43.37	6.15	37.23	35.44	Peak	100	269 HORIZONTAL
4	15963.20	38.94	54.00	-15.06	31.00	6.15	37.23	35.44	Average	100	269 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	10639.48	36.31	54.00	-17.69	28.32	5.01	38.37	35.39	Average	100	227 VERTICAL
2	10644.52	48.80	74.00	-25.20	40.81	5.01	38.37	35.39	Peak	100	227 VERTICAL
3	15959.00	39.00	54.00	-15.00	31.06	6.15	37.23	35.44	Average	100	321 VERTICAL
4	15968.64	51.71	74.00	-22.29	43.78	6.15	37.22	35.44	Peak	100	321 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11007.28	35.23	54.00	-18.77	27.00	5.01	38.33	35.11	Average	100	201 HORIZONTAL
2	11009.24	47.63	74.00	-26.37	39.39	5.02	38.33	35.11	Peak	100	201 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11000.00	48.12	74.00	-25.88	39.91	5.01	38.30	35.10	Peak	100	113 VERTICAL
2	11010.00	35.08	54.00	-18.92	26.85	5.02	38.32	35.11	Average	100	113 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB		cm	deg	
1	11160.10	58.57	74.00	-15.43	50.23	5.04	38.47	35.17	Peak	100	53	HORIZONTAL
2	11160.40	41.89	54.00	-12.11	33.55	5.04	38.47	35.17	Average	100	53	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB		cm	deg	
1	11162.50	37.74	54.00	-16.26	29.39	5.05	38.47	35.17	Average	100	116	VERTICAL
2	11169.20	50.51	74.00	-23.49	42.16	5.05	38.47	35.17	Peak	100	116	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11401.52	48.02	74.00	-25.98	39.79	5.01	38.32	35.10	Peak	100	178 HORIZONTAL
2	11404.00	35.24	54.00	-18.76	27.01	5.01	38.32	35.10	Average	100	178 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11397.48	47.60	74.00	-26.40	39.39	5.01	38.30	35.10	Peak	100	94 VERTICAL
2	11401.72	35.14	54.00	-18.86	26.93	5.01	38.30	35.10	Average	100	94 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15811.92	51.05	74.00	-22.95	42.97	6.14	37.37	35.43	Peak	100	285	HORIZONTAL
2	15818.00	38.55	54.00	-15.45	30.48	6.14	37.37	35.44	Average	100	285	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamplifier	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15810.36	50.89	74.00	-23.11	42.81	6.14	37.37	35.43	Peak	100	173	VERTICAL
2	15814.44	38.77	54.00	-15.23	30.69	6.14	37.37	35.43	Average	100	173	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10611.56	36.80	54.00	-17.20	28.83	5.01	38.38	35.42	Average			100	182	HORIZONTAL
2	10619.36	49.62	74.00	-24.38	41.65	5.01	38.38	35.42	Peak			100	182	HORIZONTAL
3	15920.76	52.46	74.00	-21.54	44.48	6.15	37.27	35.44	Peak			100	273	HORIZONTAL
4	15921.04	39.27	54.00	-14.73	31.29	6.15	37.27	35.44	Average			100	273	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10611.52	36.54	54.00	-17.46	28.57	5.01	38.38	35.42	Average			100	100	VERTICAL
2	10620.44	48.98	74.00	-25.02	41.01	5.01	38.38	35.42	Peak			100	100	VERTICAL
3	15920.08	39.14	54.00	-14.86	31.16	6.15	37.27	35.44	Average			100	194	VERTICAL
4	15927.92	51.31	74.00	-22.69	43.33	6.15	37.27	35.44	Peak			100	194	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11012.92	48.00	74.00	-26.00	39.76	5.02	38.33	35.11	Peak	100	201	HORIZONTAL
2	11027.12	35.60	54.00	-18.40	27.35	5.02	38.34	35.11	Average	100	201	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11028.36	48.75	74.00	-25.25	40.51	5.02	38.33	35.11	Peak	100	304	VERTICAL
2	11030.00	35.47	54.00	-18.53	27.23	5.02	38.33	35.11	Average	100	304	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over	Read	Cable			Preamp	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB				
1	11119.64	48.66	74.00	-25.34	40.42	5.02	38.33	35.11	Peak	100	94	HORIZONTAL
2	11129.80	35.47	54.00	-18.53	27.22	5.02	38.34	35.11	Average	100	94	HORIZONTAL

Vertical

Freq	Level	Limit		Over	Read	Cable			Preamp	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV/m	dB	dBuV				
1	11123.40	35.37	54.00	-18.63	27.13	5.02	38.33	35.11	Average	100	320	VERTICAL
2	11129.36	48.45	74.00	-25.55	40.21	5.02	38.33	35.11	Peak	100	320	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11341.10	53.12	74.00	-20.88	44.64	5.09	38.63	35.24	Peak	100	288 HORIZONTAL
2	11344.30	38.92	54.00	-15.08	30.44	5.09	38.63	35.24	Average	100	288 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11324.40	48.57	74.00	-25.43	40.10	5.08	38.62	35.23	Peak	100	170 VERTICAL
2	11340.70	36.21	54.00	-17.79	27.73	5.09	38.63	35.24	Average	100	170 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15883.00	39.01	54.00	-14.99	31.00	6.15	37.30	35.44	Average	100	176	HORIZONTAL
2	15893.60	51.60	74.00	-22.40	43.59	6.15	37.30	35.44	Peak	100	176	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15867.50	50.71	74.00	-23.29	42.70	6.14	37.32	35.45	Peak	100	83	VERTICAL
2	15893.10	38.99	54.00	-15.01	30.98	6.15	37.30	35.44	Average	100	83	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11072.10	48.92	74.00	-25.08	40.65	5.03	38.37	35.13	Peak	100	228	HORIZONTAL
2	11080.40	36.28	54.00	-17.72	28.00	5.03	38.38	35.13	Average	100	228	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11077.90	36.42	54.00	-17.58	28.14	5.03	38.38	35.13	Average	100	294	VERTICAL
2	11081.70	49.07	74.00	-24.93	40.79	5.03	38.38	35.13	Peak	100	294	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	15775.72	51.40	74.00	-22.60	43.26	6.14	37.42	35.42	Peak	100	166	HORIZONTAL
2	15777.44	39.27	54.00	-14.73	31.14	6.14	37.41	35.42	Average	100	166	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	15785.00	39.79	54.00	-14.21	31.66	6.14	37.41	35.42	Average	100	220	VERTICAL
2	15786.44	51.81	74.00	-22.19	43.68	6.14	37.41	35.42	Peak	100	220	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10600.29	49.94	74.00	-24.06	41.97	5.01	38.38	35.42	Peak	100	221 HORIZONTAL
2	10601.38	37.40	54.00	-16.60	29.43	5.01	38.38	35.42	Average	100	221 HORIZONTAL
3	15900.80	51.53	74.00	-22.47	43.53	6.15	37.29	35.44	Peak	100	133 HORIZONTAL
4	15902.29	38.80	54.00	-15.20	30.80	6.15	37.29	35.44	Average	100	133 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10601.50	36.72	54.00	-17.28	28.75	5.01	38.38	35.42	Average	100	194 VERTICAL
2	10602.26	50.43	74.00	-23.57	42.46	5.01	38.38	35.42	Peak	100	194 VERTICAL
3	15899.51	50.79	74.00	-23.21	42.79	6.15	37.29	35.44	Peak	100	83 VERTICAL
4	15899.90	38.74	54.00	-15.26	30.74	6.15	37.29	35.44	Average	100	83 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10637.84	36.33	54.00	-17.67	28.34	5.01	38.37	35.39	Average	100	215 HORIZONTAL
2	10639.85	49.21	74.00	-24.79	41.22	5.01	38.37	35.39	Peak	100	215 HORIZONTAL
3	15957.78	51.21	74.00	-22.79	43.27	6.15	37.23	35.44	Peak	100	297 HORIZONTAL
4	15961.83	38.88	54.00	-15.12	30.94	6.15	37.23	35.44	Average	100	297 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10638.74	49.46	74.00	-24.54	41.47	5.01	38.37	35.39	Peak	100	155 VERTICAL
2	10639.50	36.51	54.00	-17.49	28.52	5.01	38.37	35.39	Average	100	155 VERTICAL
3	15958.69	38.94	54.00	-15.06	31.00	6.15	37.23	35.44	Average	100	242 VERTICAL
4	15961.02	51.49	74.00	-22.51	43.55	6.15	37.23	35.44	Peak	100	242 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11001.93	34.90	54.00	-19.10	26.67	5.01	38.32	35.10	Average	100	214	HORIZONTAL
2	11002.49	47.50	74.00	-26.50	39.27	5.01	38.32	35.10	Peak	100	214	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.15	48.06	74.00	-25.94	39.85	5.01	38.30	35.10	Peak	100	111	VERTICAL
2	11000.42	34.73	54.00	-19.27	26.52	5.01	38.30	35.10	Average	100	111	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11156.72	53.66	74.00	-20.34	45.33	5.04	38.45	35.16	Peak	100	308	HORIZONTAL
2	11160.52	40.47	54.00	-13.53	32.13	5.04	38.47	35.17	Average	100	308	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.80	38.16	54.00	-15.84	29.82	5.04	38.47	35.17	Average	100	156	VERTICAL
2	11162.76	50.40	74.00	-23.60	42.05	5.05	38.47	35.17	Peak	100	156	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11392.92	49.19	74.00	-24.81	40.66	5.10	38.68	35.25	Peak	100	176	HORIZONTAL
2	11402.80	36.57	54.00	-17.43	28.02	5.10	38.70	35.25	Average	100	176	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11402.64	48.70	74.00	-25.30	40.15	5.10	38.70	35.25	Peak	100	279	VERTICAL
2	11404.32	36.23	54.00	-17.77	27.68	5.10	38.70	35.25	Average	100	279	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15802.08	51.12	74.00	-22.88	43.02	6.14	37.39	35.43	Peak	100	165	HORIZONTAL
2	15809.96	38.49	54.00	-15.51	30.39	6.14	37.39	35.43	Average	100	165	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15808.36	38.72	54.00	-15.28	30.62	6.14	37.39	35.43	Average	100	155	VERTICAL
2	15811.24	51.26	74.00	-22.74	43.18	6.14	37.37	35.43	Peak	100	155	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB					
1	10617.75	36.70	54.00	-17.30	28.73	5.01	38.38	35.42	Average		100	194	HORIZONTAL
2	10622.17	48.86	74.00	-25.14	40.89	5.01	38.38	35.42	Peak		100	194	HORIZONTAL
3	15929.89	38.76	54.00	-15.24	30.80	6.15	37.25	35.44	Average		100	126	HORIZONTAL
4	15931.17	51.46	74.00	-22.54	43.50	6.15	37.25	35.44	Peak		100	126	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV/m	dB	dBuV						
1	10618.29	36.34	54.00	-17.66	28.37	5.01	38.38	35.42	Average		100	186	VERTICAL	
2	10618.37	49.45	74.00	-24.55	41.48	5.01	38.38	35.42	Peak		100	186	VERTICAL	
3	15927.88	38.73	54.00	-15.27	30.75	6.15	37.27	35.44	Average		100	98	VERTICAL	
4	15928.22	51.23	74.00	-22.77	43.25	6.15	37.27	35.44	Peak		100	98	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11016.72	34.81	54.00	-19.19	26.57	5.02	38.33	35.11	Average	100	303 HORIZONTAL
2	11017.16	47.20	74.00	-26.80	38.96	5.02	38.33	35.11	Peak	100	303 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11025.60	34.82	54.00	-19.18	26.58	5.02	38.33	35.11	Average	100	166 VERTICAL
2	11027.76	47.03	74.00	-26.97	38.79	5.02	38.33	35.11	Peak	100	166 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11103.52	48.84	74.00	-25.16	40.55	5.03	38.40	35.14	Peak	100	160 HORIZONTAL
2	11107.28	36.64	54.00	-17.36	28.36	5.03	38.40	35.15	Average	100	160 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11101.88	48.58	74.00	-25.42	40.29	5.03	38.40	35.14	Peak	100	74 VERTICAL
2	11102.04	36.09	54.00	-17.91	27.80	5.03	38.40	35.14	Average	100	74 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11338.58	37.70	54.00	-16.30	29.23	5.08	38.63	35.24	Average	100	288	HORIZONTAL
2	11341.18	52.76	74.00	-21.24	44.28	5.09	38.63	35.24	Peak	100	288	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11336.54	49.73	74.00	-24.27	41.26	5.08	38.63	35.24	Peak	100	159	VERTICAL
2	11339.24	37.43	54.00	-16.57	28.96	5.08	38.63	35.24	Average	100	159	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15868.63	50.38	74.00	-23.62	42.37	6.14	37.32	35.45	Peak	100	209	HORIZONTAL
2	15871.06	38.28	54.00	-15.72	30.26	6.14	37.32	35.44	Average	100	209	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15870.02	38.12	54.00	-15.88	30.10	6.14	37.32	35.44	Average	100	287	VERTICAL
2	15870.69	50.76	74.00	-23.24	42.74	6.14	37.32	35.44	Peak	100	287	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 4 (Ant.5 Patch antenna / 2.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11059.37	48.53	74.00	-25.47	40.27	5.02	38.37	35.13	Peak	100	89	HORIZONTAL
2	11061.34	35.34	54.00	-18.66	27.07	5.03	38.37	35.13	Average	100	89	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11061.05	48.97	74.00	-25.03	40.70	5.03	38.37	35.13	Peak	100	174	VERTICAL
2	11061.86	35.35	54.00	-18.65	27.08	5.03	38.37	35.13	Average	100	174	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	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15782.68	51.59	74.00	-22.41	43.46	6.14	37.41	35.42	Peak	100	219 HORIZONTAL
2	15783.28	38.78	54.00	-15.22	30.65	6.14	37.41	35.42	Average	100	219 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15778.96	39.20	54.00	-14.80	31.07	6.14	37.41	35.42	Average	100	144 VERTICAL
2	15784.00	52.14	74.00	-21.86	44.01	6.14	37.41	35.42	Peak	100	144 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10601.80	35.98	54.00	-18.02	28.01	5.01	38.38	35.42	Average			100	126	HORIZONTAL
2	10602.52	48.59	74.00	-25.41	40.62	5.01	38.38	35.42	Peak			100	126	HORIZONTAL
3	15892.56	50.76	74.00	-23.24	42.75	6.15	37.30	35.44	Peak			100	198	HORIZONTAL
4	15892.92	39.12	54.00	-14.88	31.11	6.15	37.30	35.44	Average			100	198	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				cm	deg	
1	10598.36	50.60	74.00	-23.40	42.63	5.01	38.38	35.42	Peak			100	144	VERTICAL
2	10601.00	38.26	54.00	-15.74	30.29	5.01	38.38	35.42	Average			100	144	VERTICAL
3	15894.32	39.21	54.00	-14.79	31.20	6.15	37.30	35.44	Average			100	264	VERTICAL
4	15894.36	51.78	74.00	-22.22	43.77	6.15	37.30	35.44	Peak			100	264	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10632.76	35.77	54.00	-18.23	27.78	5.01	38.37	35.39	Average	100	109 HORIZONTAL
2	10642.52	48.49	74.00	-25.51	40.50	5.01	38.37	35.39	Peak	100	109 HORIZONTAL
3	15958.00	39.08	54.00	-14.92	31.14	6.15	37.23	35.44	Average	100	170 HORIZONTAL
4	15967.28	51.64	74.00	-22.36	43.71	6.15	37.22	35.44	Peak	100	170 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10635.08	36.18	54.00	-17.82	28.19	5.01	38.37	35.39	Average	100	305 VERTICAL
2	10643.92	48.39	74.00	-25.61	40.40	5.01	38.37	35.39	Peak	100	305 VERTICAL
3	15952.56	52.48	74.00	-21.52	44.54	6.15	37.23	35.44	Peak	100	236 VERTICAL
4	15966.24	39.09	54.00	-14.91	31.16	6.15	37.22	35.44	Average	100	236 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Limit	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10996.16	35.48	54.00	-18.52	27.25	5.01	38.32	35.10	Average	100	202	HORIZONTAL
2	10997.08	47.77	74.00	-26.23	39.54	5.01	38.32	35.10	Peak	100	235	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Limit	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11000.32	47.77	74.00	-26.23	39.56	5.01	38.30	35.10	Peak	100	302	VERTICAL
2	11000.40	35.71	54.00	-18.29	27.50	5.01	38.30	35.10	Average	100	302	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11154.08	36.67	54.00	-17.33	28.34	5.04	38.45	35.16	Average	100	147	HORIZONTAL
2	11160.32	48.45	74.00	-25.55	40.11	5.04	38.47	35.17	Peak	100	147	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11161.20	38.00	54.00	-16.00	29.66	5.04	38.47	35.17	Average	100	267	VERTICAL
2	11163.16	50.88	74.00	-23.12	42.53	5.05	38.47	35.17	Peak	100	267	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11401.52	48.23	74.00	-25.77	39.68	5.10	38.70	35.25	Peak	100	216 HORIZONTAL
2	11409.08	36.71	54.00	-17.29	28.16	5.10	38.70	35.25	Average	100	216 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11400.80	38.19	54.00	-15.81	29.64	5.10	38.70	35.25	Average	100	159 VERTICAL
2	11402.16	51.16	74.00	-22.84	42.61	5.10	38.70	35.25	Peak	100	159 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15810.72	38.95	54.00	-15.05	30.87	6.14	37.37	35.43	Average	100	143	HORIZONTAL
2	15814.96	51.91	74.00	-22.09	43.83	6.14	37.37	35.43	Peak	100	143	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15800.32	50.96	74.00	-23.04	42.86	6.14	37.39	35.43	Peak	100	226	VERTICAL
2	15817.00	38.83	54.00	-15.17	30.75	6.14	37.37	35.43	Average	100	226	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			dB	dBmV	dB	dB/m	dB	dB	cm	deg	
1	10618.24	35.92	54.00	-18.08	27.95	5.01	38.38	35.42	Average	100	233	HORIZONTAL		
2	10626.24	48.51	74.00	-25.49	40.51	5.01	38.38	35.39	Peak	100	233	HORIZONTAL		
3	15921.96	38.95	54.00	-15.05	30.97	6.15	37.27	35.44	Average	100	172	HORIZONTAL		
4	15924.56	51.94	74.00	-22.06	43.96	6.15	37.27	35.44	Peak	100	172	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			dB	dBmV	dB	dB/m	dB	dB	cm	deg	
1	10617.84	36.46	54.00	-17.54	28.49	5.01	38.38	35.42	Average	100	136	VERTICAL		
2	10628.40	48.00	74.00	-26.00	40.00	5.01	38.38	35.39	Peak	100	136	VERTICAL		
3	15934.48	51.69	74.00	-22.31	43.73	6.15	37.25	35.44	Peak	100	226	VERTICAL		
4	15939.00	38.97	54.00	-15.03	31.01	6.15	37.25	35.44	Average	100	226	VERTICAL		



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11018.56	48.37	74.00	-25.63	40.13	5.02	38.33	35.11	Peak	100	171	HORIZONTAL
2	11029.84	35.55	54.00	-18.45	27.30	5.02	38.34	35.11	Average	100	171	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11011.64	47.52	74.00	-26.48	39.29	5.02	38.32	35.11	Peak	100	107	VERTICAL
2	11015.84	35.47	54.00	-18.53	27.24	5.02	38.32	35.11	Average	100	107	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11097.52	36.56	54.00	-17.44	28.27	5.03	38.40	35.14	Average	100	163 HORIZONTAL
2	11103.84	49.44	74.00	-24.56	41.15	5.03	38.40	35.14	Peak	100	163 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11101.48	49.11	74.00	-24.89	40.82	5.03	38.40	35.14	Peak	100	260 VERTICAL
2	11103.72	36.72	54.00	-17.28	28.43	5.03	38.40	35.14	Average	100	260 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11336.28	48.00	74.00	-26.00	39.52	5.08	38.63	35.23	Peak	100	167	HORIZONTAL
2	11341.92	36.45	54.00	-17.55	27.97	5.09	38.63	35.24	Average	100	167	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11338.52	49.56	74.00	-24.44	41.09	5.08	38.63	35.24	Peak	100	61	VERTICAL
2	11342.36	37.64	54.00	-16.36	29.16	5.09	38.63	35.24	Average	100	61	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15885.70	50.84	74.00	-23.16	42.83	6.15	37.30	35.44	Peak	100	234	HORIZONTAL
2	15886.20	38.90	54.00	-15.10	30.89	6.15	37.30	35.44	Average	100	234	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15876.60	50.07	74.00	-23.93	42.05	6.14	37.32	35.44	Peak	100	171	VERTICAL
2	15877.30	38.45	54.00	-15.55	30.43	6.14	37.32	35.44	Average	100	171	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 1TX / Chain 1
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m		cm	deg	
1	11080.60	48.75	74.00	-25.25	40.47	5.03	38.38	35.13	Peak	100	141	HORIZONTAL	
2	11084.10	36.49	54.00	-17.51	28.22	5.03	38.38	35.14	Average	100	141	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m		cm	deg	
1	11078.00	48.13	74.00	-25.87	39.85	5.03	38.38	35.13	Peak	100	206	VERTICAL	
2	11079.20	36.25	54.00	-17.75	27.97	5.03	38.38	35.13	Average	100	206	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15781.26	41.31	54.00	-12.69	33.18	6.14	37.41	35.42	Average	100	218	HORIZONTAL
2	15782.04	53.62	74.00	-20.38	45.49	6.14	37.41	35.42	Peak	100	218	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15781.74	42.26	54.00	-11.74	34.13	6.14	37.41	35.42	Average	100	208	VERTICAL
2	15784.46	55.26	74.00	-18.74	47.13	6.14	37.41	35.42	Peak	100	208	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			dB	dBmV	dB			
1	10601.42	37.71	54.00	-16.29	29.74	5.01	38.38	35.42	Average	100	212 HORIZONTAL
2	10603.86	50.88	74.00	-23.12	42.91	5.01	38.38	35.42	Peak	100	212 HORIZONTAL
3	15896.78	40.70	54.00	-13.30	32.70	6.15	37.29	35.44	Average	100	305 HORIZONTAL
4	15901.00	54.16	74.00	-19.84	46.16	6.15	37.29	35.44	Peak	100	305 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBmV/m			dB	dBmV	dB			
1	10595.24	39.36	54.00	-14.64	31.41	5.01	38.38	35.44	Average	100	153 VERTICAL
2	10597.52	51.43	74.00	-22.57	43.48	5.01	38.38	35.44	Peak	100	153 VERTICAL
3	15896.74	40.74	54.00	-13.26	32.74	6.15	37.29	35.44	Average	100	216 VERTICAL
4	15897.16	54.01	74.00	-19.99	46.01	6.15	37.29	35.44	Peak	100	216 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10637.58	37.17	54.00	-16.83	29.18	5.01	38.37	35.39	Average	100	237 HORIZONTAL
2	10643.74	49.99	74.00	-24.01	42.00	5.01	38.37	35.39	Peak	100	237 HORIZONTAL
3	15956.36	40.81	54.00	-13.19	32.87	6.15	37.23	35.44	Average	100	175 HORIZONTAL
4	15957.22	54.24	74.00	-19.76	46.30	6.15	37.23	35.44	Peak	100	175 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10637.38	37.40	54.00	-16.60	29.41	5.01	38.37	35.39	Average	100	184 VERTICAL
2	10638.02	50.59	74.00	-23.41	42.60	5.01	38.37	35.39	Peak	100	184 VERTICAL
3	15955.12	40.83	54.00	-13.17	32.89	6.15	37.23	35.44	Average	100	97 VERTICAL
4	15957.68	54.41	74.00	-19.59	46.47	6.15	37.23	35.44	Peak	100	97 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dB	dB/m			
1	10997.02	50.35	74.00	-23.65	42.12	5.01	38.32	35.10	Peak	100	243 HORIZONTAL
2	10997.88	36.90	54.00	-17.10	28.67	5.01	38.32	35.10	Average	100	243 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dB	dB/m			
1	11001.82	36.97	54.00	-17.03	28.76	5.01	38.30	35.10	Average	100	137 VERTICAL
2	11003.30	50.01	74.00	-23.99	41.80	5.01	38.30	35.10	Peak	100	137 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11160.54	37.81	54.00	-16.19	29.47	5.04	38.47	35.17	Average	100	195 HORIZONTAL
2	11160.82	51.51	74.00	-22.49	43.17	5.04	38.47	35.17	Peak	100	195 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11160.26	50.44	74.00	-23.56	42.10	5.04	38.47	35.17	Peak	100	122 VERTICAL
2	11160.54	37.71	54.00	-16.29	29.37	5.04	38.47	35.17	Average	100	122 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11394.24	50.81	74.00	-23.19	42.28	5.10	38.68	35.25	Peak	100	230 HORIZONTAL
2	11409.52	37.83	54.00	-16.17	29.28	5.10	38.70	35.25	Average	100	230 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11398.84	50.32	74.00	-23.68	41.77	5.10	38.70	35.25	Peak	100	156 VERTICAL
2	11403.20	38.48	54.00	-15.52	29.93	5.10	38.70	35.25	Average	100	156 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15811.88	40.68	54.00	-13.32	32.60	6.14	37.37	35.43	Average	100	147 HORIZONTAL
2	15812.36	54.33	74.00	-19.67	46.25	6.14	37.37	35.43	Peak	100	147 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	15810.60	54.14	74.00	-19.86	46.06	6.14	37.37	35.43	Peak	100	242 VERTICAL
2	15812.28	40.93	54.00	-13.07	32.85	6.14	37.37	35.43	Average	100	242 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	10615.60	50.42	74.00	-23.58	42.45	5.01	38.38	35.42	Peak	100	271	HORIZONTAL
2	10616.08	37.52	54.00	-16.48	29.55	5.01	38.38	35.42	Average	100	271	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	10611.00	37.54	54.00	-16.46	29.57	5.01	38.38	35.42	Average	100	192	VERTICAL
2	10620.84	50.07	74.00	-23.93	42.10	5.01	38.38	35.42	Peak	100	192	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11014.84	37.05	54.00	-16.95	28.81	5.02	38.33	35.11	Average	100	190	HORIZONTAL
2	11029.44	49.45	74.00	-24.55	41.20	5.02	38.34	35.11	Peak	100	190	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11019.84	49.56	74.00	-24.44	41.33	5.02	38.32	35.11	Peak	100	102	VERTICAL
2	11028.32	37.18	54.00	-16.82	28.94	5.02	38.33	35.11	Average	100	102	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11106.24	38.40	54.00	-15.60	30.11	5.03	38.40	35.14	Average	100	250	HORIZONTAL
2	11108.16	50.75	74.00	-23.25	42.45	5.03	38.42	35.15	Peak	100	250	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11101.40	51.59	74.00	-22.41	43.30	5.03	38.40	35.14	Peak	100	162	VERTICAL
2	11109.04	39.09	54.00	-14.91	30.79	5.03	38.42	35.15	Average	100	162	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11337.64	51.39	74.00	-22.61	42.92	5.08	38.63	35.24	Peak	100	178	HORIZONTAL
2	11343.24	38.03	54.00	-15.97	29.55	5.09	38.63	35.24	Average	100	178	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11342.52	52.97	74.00	-21.03	44.49	5.09	38.63	35.24	Peak	100	182	VERTICAL
2	11343.76	41.27	54.00	-12.73	32.79	5.09	38.63	35.24	Average	100	182	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dBuV	dB			
1	15872.36	54.18	74.00	-19.82	46.16	6.14	37.32	35.44	Peak	100	233 HORIZONTAL
2	15878.44	40.49	54.00	-13.51	32.47	6.14	37.32	35.44	Average	100	233 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dBuV	dB			
1	15868.44	53.25	74.00	-20.75	45.24	6.14	37.32	35.45	Peak	100	131 VERTICAL
2	15878.12	40.45	54.00	-13.55	32.43	6.14	37.32	35.44	Average	100	131 VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11054.68	51.02	74.00	-22.98	42.76	5.02	38.36	35.12	Peak	100	98	HORIZONTAL
2	11060.68	37.94	54.00	-16.06	29.67	5.03	38.37	35.13	Average	100	98	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11054.12	37.76	54.00	-16.24	29.51	5.02	38.35	35.12	Average	100	234	VERTICAL
2	11063.44	50.28	74.00	-23.72	42.01	5.03	38.37	35.13	Peak	100	234	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15772.76	40.96	54.00	-13.04	32.82	6.14	37.42	35.42	Average	100	255 HORIZONTAL
2	15787.52	53.53	74.00	-20.47	45.40	6.14	37.41	35.42	Peak	100	255 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15778.68	40.99	54.00	-13.01	32.86	6.14	37.41	35.42	Average	100	168 VERTICAL
2	15782.24	53.51	74.00	-20.49	45.38	6.14	37.41	35.42	Peak	100	168 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10595.00	50.30	74.00	-23.70	42.35	5.01	38.38	35.44	Peak	100	199 HORIZONTAL
2	10597.40	37.93	54.00	-16.07	29.98	5.01	38.38	35.44	Average	100	199 HORIZONTAL
3	15907.60	53.34	74.00	-20.66	45.34	6.15	37.29	35.44	Peak	100	249 HORIZONTAL
4	15908.40	40.64	54.00	-13.36	32.64	6.15	37.29	35.44	Average	100	249 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10599.80	39.88	54.00	-14.12	31.91	5.01	38.38	35.42	Average	100	78 VERTICAL
2	10601.16	50.61	74.00	-23.39	42.64	5.01	38.38	35.42	Peak	100	78 VERTICAL
3	15893.72	40.86	54.00	-13.14	32.85	6.15	37.30	35.44	Average	100	166 VERTICAL
4	15907.00	53.48	74.00	-20.52	45.48	6.15	37.29	35.44	Peak	100	166 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10632.84	49.59	74.00	-24.41	41.60	5.01	38.37	35.39	Peak	100	216 HORIZONTAL
2	10636.04	37.44	54.00	-16.56	29.45	5.01	38.37	35.39	Average	100	216 HORIZONTAL
3	15953.88	40.64	54.00	-13.36	32.70	6.15	37.23	35.44	Average	100	324 HORIZONTAL
4	15964.56	53.84	74.00	-20.16	45.91	6.15	37.22	35.44	Peak	100	324 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10634.88	37.30	54.00	-16.70	29.31	5.01	38.37	35.39	Average	100	172 VERTICAL
2	10648.56	50.24	74.00	-23.76	42.25	5.01	38.37	35.39	Peak	100	172 VERTICAL
3	15960.32	40.58	54.00	-13.42	32.64	6.15	37.23	35.44	Average	100	250 VERTICAL
4	15967.28	54.15	74.00	-19.85	46.22	6.15	37.22	35.44	Peak	100	250 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11003.72	37.13	54.00	-16.87	28.90	5.01	38.32	35.10	Average	100	204	HORIZONTAL
2	11007.76	49.49	74.00	-24.51	41.26	5.01	38.33	35.11	Peak	100	204	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10999.12	37.07	54.00	-16.93	28.86	5.01	38.30	35.10	Average	100	121	VERTICAL
2	11008.60	50.55	74.00	-23.45	42.33	5.01	38.32	35.11	Peak	100	121	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11159.28	40.26	54.00	-13.74	31.92	5.04	38.47	35.17	Average	100	249	HORIZONTAL
2	11166.12	53.48	74.00	-20.52	45.13	5.05	38.47	35.17	Peak	100	249	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
		Line	dB			dBuV	dB	dB/m		cm	deg		
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11160.12	43.19	54.00	-10.81	34.85	5.04	38.47	35.17	Average	100	152	VERTICAL	
2	11165.92	57.22	74.00	-16.78	48.87	5.05	38.47	35.17	Peak	100	152	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11398.08	50.47	74.00	-23.53	41.92	5.10	38.70	35.25	Peak	100	182	HORIZONTAL
2	11401.60	37.82	54.00	-16.18	29.27	5.10	38.70	35.25	Average	100	182	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11400.36	50.62	74.00	-23.38	42.07	5.10	38.70	35.25	Peak	100	278	VERTICAL
2	11401.26	38.03	54.00	-15.97	29.48	5.10	38.70	35.25	Average	100	278	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15805.62	40.49	54.00	-13.51	32.39	6.14	37.39	35.43	Average	100	249	HORIZONTAL
2	15806.16	52.86	74.00	-21.14	44.76	6.14	37.39	35.43	Peak	100	249	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	15805.84	52.75	74.00	-21.25	44.65	6.14	37.39	35.43	Peak	100	150	VERTICAL
2	15807.20	40.47	54.00	-13.53	32.37	6.14	37.39	35.43	Average	100	150	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBm	dB				cm	deg	
1	10615.06	37.62	54.00	-16.38	29.65	5.01	38.38	35.42	Average			100	184	HORIZONTAL
2	10615.16	50.44	74.00	-23.56	42.47	5.01	38.38	35.42	Peak			100	184	HORIZONTAL
3	15926.02	40.50	54.00	-13.50	32.52	6.15	37.27	35.44	Average			100	254	HORIZONTAL
4	15926.82	53.51	74.00	-20.49	45.53	6.15	37.27	35.44	Peak			100	254	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm				cm	deg	
1	10615.26	37.84	54.00	-16.16	29.87	5.01	38.38	35.42	Average			100	94	VERTICAL
2	10622.42	50.47	74.00	-23.53	42.50	5.01	38.38	35.42	Peak			100	94	VERTICAL
3	15926.18	53.22	74.00	-20.78	45.24	6.15	37.27	35.44	Peak			100	172	VERTICAL
4	15927.64	40.46	54.00	-13.54	32.48	6.15	37.27	35.44	Average			100	172	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11015.26	37.32	54.00	-16.68	29.08	5.02	38.33	35.11	Average	100	239 HORIZONTAL
2	11018.06	49.99	74.00	-24.01	41.75	5.02	38.33	35.11	Peak	100	239 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11015.90	37.30	54.00	-16.70	29.07	5.02	38.32	35.11	Average	100	161 VERTICAL
2	11020.20	49.49	74.00	-24.51	41.26	5.02	38.32	35.11	Peak	100	161 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11100.40	50.59	74.00	-23.41	42.30	5.03	38.40	35.14	Peak	100	214 HORIZONTAL
2	11103.66	38.70	54.00	-15.30	30.41	5.03	38.40	35.14	Average	100	214 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11097.32	51.44	74.00	-22.56	43.15	5.03	38.40	35.14	Peak	100	136 VERTICAL
2	11104.84	38.79	54.00	-15.21	30.50	5.03	38.40	35.14	Average	100	136 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	11338.24	50.99	74.00	-23.01	42.52	5.08	38.63	35.24	Peak	100	270 HORIZONTAL
2	11339.48	38.55	54.00	-15.45	30.08	5.08	38.63	35.24	Average	100	270 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	11337.04	40.12	54.00	-13.88	31.65	5.08	38.63	35.24	Average	100	183 VERTICAL
2	11344.46	52.41	74.00	-21.59	43.93	5.09	38.63	35.24	Peak	100	183 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15872.24	53.24	74.00	-20.76	45.22	6.14	37.32	35.44	Peak	100	177 HORIZONTAL
2	15874.84	40.03	54.00	-13.97	32.01	6.14	37.32	35.44	Average	100	177 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15865.50	40.01	54.00	-13.99	32.00	6.14	37.32	35.45	Average	100	255 VERTICAL
2	15868.08	52.77	74.00	-21.23	44.76	6.14	37.32	35.45	Peak	100	255 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 2TX / Chain 1 + Chain 2
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11057.32	37.91	54.00	-16.09	29.65	5.02	38.37	35.13	Average	100	163 HORIZONTAL
2	11064.56	51.30	74.00	-22.70	43.03	5.03	38.37	35.13	Peak	100	163 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11062.06	37.88	54.00	-16.12	29.61	5.03	38.37	35.13	Average	100	32 VERTICAL
2	11062.96	50.55	74.00	-23.45	42.28	5.03	38.37	35.13	Peak	100	32 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15772.96	42.43	54.00	-11.57	34.29	6.14	37.42	35.42	Average	100	247 HORIZONTAL
2	15775.16	56.27	74.00	-17.73	48.13	6.14	37.42	35.42	Peak	100	247 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15773.50	44.34	54.00	-9.66	36.20	6.14	37.42	35.42	Average	100	203 VERTICAL
2	15775.10	57.56	74.00	-16.44	49.42	6.14	37.42	35.42	Peak	100	203 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10578.10	48.98	74.00	-25.02	41.02	5.01	38.39	35.44	Peak	100	192 HORIZONTAL
2	10596.10	36.78	54.00	-17.22	28.83	5.01	38.38	35.44	Average	100	192 HORIZONTAL
3	15892.50	39.52	54.00	-14.48	31.51	6.15	37.30	35.44	Average	100	99 HORIZONTAL
4	15895.00	52.34	74.00	-21.66	44.33	6.15	37.30	35.44	Peak	100	99 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10601.60	41.02	54.00	-12.98	33.05	5.01	38.38	35.42	Average	100	196 VERTICAL
2	10602.10	53.20	74.00	-20.80	45.23	5.01	38.38	35.42	Peak	100	196 VERTICAL
3	15881.40	52.31	74.00	-21.69	44.30	6.15	37.30	35.44	Peak	100	186 VERTICAL
4	15895.00	40.93	54.00	-13.07	32.92	6.15	37.30	35.44	Average	100	186 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10618.40	35.96	54.00	-18.04	27.99	5.01	38.38	35.42	Average	100	227 HORIZONTAL
2	10627.30	47.71	74.00	-26.29	39.71	5.01	38.38	35.39	Peak	100	227 HORIZONTAL
3	15965.80	39.05	54.00	-14.95	31.12	6.15	37.22	35.44	Average	100	119 HORIZONTAL
4	15967.00	51.21	74.00	-22.79	43.28	6.15	37.22	35.44	Peak	100	119 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10639.60	37.56	54.00	-16.44	29.57	5.01	38.37	35.39	Average	100	195 VERTICAL
2	10640.50	49.86	74.00	-24.14	41.87	5.01	38.37	35.39	Peak	100	195 VERTICAL
3	15953.40	38.69	54.00	-15.31	30.75	6.15	37.23	35.44	Average	100	344 VERTICAL
4	15969.90	51.07	74.00	-22.93	43.14	6.15	37.22	35.44	Peak	100	344 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11003.60	49.17	74.00	-24.83	40.94	5.01	38.32	35.10	Peak	100	112 HORIZONTAL
2	11015.60	36.91	54.00	-17.09	28.67	5.02	38.33	35.11	Average	100	112 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11004.40	49.32	74.00	-24.68	41.11	5.01	38.30	35.10	Peak	100	220 VERTICAL
2	11004.84	36.94	54.00	-17.06	28.73	5.01	38.30	35.10	Average	100	220 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11153.10	49.80	74.00	-24.20	41.47	5.04	38.45	35.16	Peak	100	62 HORIZONTAL
2	11162.30	39.06	54.00	-14.94	30.71	5.05	38.47	35.17	Average	100	62 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11160.80	57.02	74.00	-16.98	48.68	5.04	38.47	35.17	Peak	100	194 VERTICAL
2	11162.50	43.95	54.00	-10.05	35.60	5.05	38.47	35.17	Average	100	194 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm			cm	deg	
1	11394.76	50.18	74.00	-23.82	41.65	5.10	38.68	35.25	Peak	100	280	HORIZONTAL	
2	11409.52	37.31	54.00	-16.69	28.76	5.10	38.70	35.25	Average	100	280	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm			cm	deg	
1	11399.96	50.09	74.00	-23.91	41.54	5.10	38.70	35.25	Peak	100	220	VERTICAL	
2	11406.20	37.44	54.00	-16.56	28.89	5.10	38.70	35.25	Average	100	220	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15803.84	41.05	54.00	-12.95	32.95	6.14	37.39	35.43	Average	100	151 HORIZONTAL
2	15804.76	52.22	74.00	-21.78	44.12	6.14	37.39	35.43	Peak	100	151 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15803.30	53.65	74.00	-20.35	45.55	6.14	37.39	35.43	Peak	100	198 VERTICAL
2	15803.50	42.02	54.00	-11.98	33.92	6.14	37.39	35.43	Average	100	198 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10602.70	36.22	54.00	-17.78	28.25	5.01	38.38	35.42	Average	100	246 HORIZONTAL
2	10620.30	48.44	74.00	-25.56	40.47	5.01	38.38	35.42	Peak	100	246 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10605.70	36.25	54.00	-17.75	28.28	5.01	38.38	35.42	Average	100	321 VERTICAL
2	10638.40	48.32	74.00	-25.68	40.33	5.01	38.37	35.39	Peak	100	321 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11010.50	36.84	54.00	-17.16	28.60	5.02	38.33	35.11	Average	100	197 HORIZONTAL
2	11043.20	49.26	74.00	-24.74	41.00	5.02	38.36	35.12	Peak	100	197 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11030.10	47.39	74.00	-26.61	39.15	5.02	38.33	35.11	Peak	100	99 VERTICAL
2	11038.80	36.99	54.00	-17.01	28.76	5.02	38.33	35.12	Average	100	99 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11111.30	37.50	54.00	-16.50	29.19	5.04	38.42	35.15	Average	100	230 HORIZONTAL
2	11120.40	49.45	74.00	-24.55	41.14	5.04	38.42	35.15	Peak	100	230 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11102.80	39.24	54.00	-14.76	30.95	5.03	38.40	35.14	Average	100	50 VERTICAL
2	11110.50	50.17	74.00	-23.83	41.87	5.03	38.42	35.15	Peak	100	50 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11341.80	37.53	54.00	-16.47	29.05	5.09	38.63	35.24	Average	100	184 HORIZONTAL
2	11349.90	48.35	74.00	-25.65	39.85	5.09	38.65	35.24	Peak	100	184 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11338.70	55.84	74.00	-18.16	47.37	5.08	38.63	35.24	Peak	100	176 VERTICAL
2	11340.30	43.04	54.00	-10.96	34.56	5.09	38.63	35.24	Average	100	176 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m		cm	deg	
1	15841.84	51.09	74.00	-22.91	43.03	6.14	37.36	35.44	Peak		100	158	HORIZONTAL
2	15842.96	39.58	54.00	-14.42	31.52	6.14	37.36	35.44	Average		100	158	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB	dB/m		cm	deg	
1	15881.36	51.33	74.00	-22.67	43.32	6.15	37.30	35.44	Peak		100	115	VERTICAL
2	15882.32	39.83	54.00	-14.17	31.82	6.15	37.30	35.44	Average		100	115	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dB	dBuV	dB		cm	deg	
1	11097.76	48.58	74.00	-25.42	40.29	5.03	38.40	35.14	Peak	100	205	HORIZONTAL
2	11099.68	37.11	54.00	-16.89	28.82	5.03	38.40	35.14	Average	100	205	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dBuV/m	dB	dB		cm	deg	
1	11084.80	37.17	54.00	-16.83	28.90	5.03	38.38	35.14	Average	100	113	VERTICAL
2	11096.00	49.31	74.00	-24.69	41.02	5.03	38.40	35.14	Peak	100	113	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB							cm	deg	
1	15780.12	38.44	54.00	-15.56	30.31	6.14	37.41	35.42	Average	127	39	HORIZONTAL
2	15780.45	47.99	74.00	-26.01	39.86	6.14	37.41	35.42	Peak	127	39	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB							cm	deg	
1	15780.06	39.96	54.00	-14.04	31.83	6.14	37.41	35.42	Average	100	201	VERTICAL
2	15780.74	51.30	74.00	-22.70	43.17	6.14	37.41	35.42	Peak	100	201	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	10600.01	35.46	54.00	-18.54	27.49	5.01	38.38	35.42	Average	101	158	HORIZONTAL
2	10600.03	47.71	74.00	-26.29	39.74	5.01	38.38	35.42	Peak	101	158	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	10600.50	37.81	54.00	-16.19	29.84	5.01	38.38	35.42	Average	138	207	VERTICAL
2	10600.90	54.26	74.00	-19.74	46.29	5.01	38.38	35.42	Peak	138	207	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10639.84	47.63	74.00	-26.37	39.64	5.01	38.37	35.39	Peak	100	138	HORIZONTAL
2	10640.05	34.77	54.00	-19.23	26.78	5.01	38.37	35.39	Average	100	138	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10640.00	36.33	54.00	-17.67	28.34	5.01	38.37	35.39	Average	142	203	VERTICAL
2	10640.01	49.21	74.00	-24.79	41.22	5.01	38.37	35.39	Peak	142	203	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10999.70	35.68	54.00	-18.32	27.45	5.01	38.32	35.10	Average	100	147 HORIZONTAL
2	11000.18	48.58	74.00	-25.42	40.35	5.01	38.32	35.10	Peak	100	147 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10999.56	48.42	74.00	-25.58	40.21	5.01	38.30	35.10	Peak	100	302 VERTICAL
2	11000.05	36.05	54.00	-17.95	27.84	5.01	38.30	35.10	Average	100	302 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11159.91	57.38	74.00	-16.62	49.04	5.04	38.47	35.17	Peak	135	252 HORIZONTAL
2	11160.28	39.35	54.00	-14.65	31.01	5.04	38.47	35.17	Average	135	252 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11158.24	44.27	54.00	-9.73	35.95	5.04	38.45	35.17	Average	128	9 VERTICAL
2	11159.96	62.46	74.00	-11.54	54.12	5.04	38.47	35.17	Peak	128	9 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Loss Factor			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	11399.68	36.86	54.00	-17.14	28.31	5.10	38.70	35.25	Average	100	217	HORIZONTAL		
2	11400.11	49.41	74.00	-24.59	40.86	5.10	38.70	35.25	Peak	100	217	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Loss Factor			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	11399.62	50.24	74.00	-23.76	41.69	5.10	38.70	35.25	Peak	111	27	VERTICAL		
2	11400.40	37.17	54.00	-16.83	28.62	5.10	38.70	35.25	Average	111	27	VERTICAL		



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15810.53	35.42	54.00	-18.58	27.34	6.14	37.37	35.43	Average	100	143	HORIZONTAL
2	15810.97	48.25	74.00	-25.75	40.17	6.14	37.37	35.43	Peak	100	143	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15810.07	50.84	74.00	-23.16	42.74	6.14	37.39	35.43	Peak	125	268	VERTICAL
2	15810.93	40.45	54.00	-13.55	32.37	6.14	37.37	35.43	Average	125	268	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	10619.74	47.96	74.00	-26.04	39.99	5.01	38.38	35.42	Peak	101	218	HORIZONTAL
2	10620.45	34.99	54.00	-19.01	27.02	5.01	38.38	35.42	Average	101	218	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	10619.56	35.25	54.00	-18.75	27.28	5.01	38.38	35.42	Average	101	98	VERTICAL
2	10619.73	48.18	74.00	-25.82	40.21	5.01	38.38	35.42	Peak	101	98	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11019.76	48.52	74.00	-25.48	40.28	5.02	38.33	35.11	Peak	101	261 HORIZONTAL
2	11020.42	35.74	54.00	-18.26	27.50	5.02	38.33	35.11	Average	101	261 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11019.92	35.94	54.00	-18.06	27.71	5.02	38.32	35.11	Average	101	184 VERTICAL
2	11019.93	49.40	74.00	-24.60	41.17	5.02	38.32	35.11	Peak	101	184 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m					
1	11100.00	36.68	54.00	-17.32	28.39	5.03	38.40	35.14	Average		110	240	HORIZONTAL
2	11100.10	49.58	74.00	-24.42	41.29	5.03	38.40	35.14	Peak		110	240	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m					
1	11099.86	55.51	74.00	-18.49	47.22	5.03	38.40	35.14	Peak		128	34	VERTICAL
2	11100.01	39.38	54.00	-14.62	31.09	5.03	38.40	35.14	Average		128	34	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Limit	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11339.97	48.83	74.00	-25.17	40.36	5.08	38.63	35.24	Peak	100	179	HORIZONTAL
2	11340.01	36.67	54.00	-17.33	28.20	5.08	38.63	35.24	Average	100	179	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Limit	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11339.83	39.97	54.00	-14.03	31.50	5.08	38.63	35.24	Average	100	176	VERTICAL
2	11340.42	53.54	74.00	-20.46	45.06	5.09	38.63	35.24	Peak	100	176	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10579.68	35.07	54.00	-18.93	27.12	5.01	38.38	35.44	Average	100	263 HORIZONTAL
2	10580.24	48.04	74.00	-25.96	40.09	5.01	38.38	35.44	Peak	100	263 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10579.93	51.10	74.00	-22.90	43.15	5.01	38.38	35.44	Peak	100	160 VERTICAL
2	10580.39	37.08	54.00	-16.92	29.13	5.01	38.38	35.44	Average	100	160 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11059.63	35.96	54.00	-18.04	27.70	5.02	38.37	35.13	Average	100	90 HORIZONTAL
2	11060.40	48.80	74.00	-25.20	40.53	5.03	38.37	35.13	Peak	100	90 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	11059.80	36.04	54.00	-17.96	27.77	5.03	38.37	35.13	Average	100	184 VERTICAL
2	11060.06	49.28	74.00	-24.72	41.01	5.03	38.37	35.13	Peak	100	184 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15779.63	50.71	74.00	-23.29	42.58	6.14	37.41	35.42	Peak	100	214	HORIZONTAL
2	15780.50	38.04	54.00	-15.96	29.91	6.14	37.41	35.42	Average	100	214	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15780.40	51.41	74.00	-22.59	43.28	6.14	37.41	35.42	Peak	100	160	VERTICAL
2	15780.47	38.68	54.00	-15.32	30.55	6.14	37.41	35.42	Average	100	160	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10600.05	34.83	54.00	-19.17	26.86	5.01	38.38	35.42	Average	100	282 HORIZONTAL
2	10600.11	50.06	74.00	-23.94	42.09	5.01	38.38	35.42	Peak	100	282 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10600.05	36.62	54.00	-17.38	28.65	5.01	38.38	35.42	Average	100	165 VERTICAL
2	10600.05	47.96	74.00	-26.04	39.99	5.01	38.38	35.42	Peak	100	165 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	10640.10	47.25	74.00	-26.75	39.26	5.01	38.37	35.39	Peak	100	286 HORIZONTAL
2	10640.14	34.74	54.00	-19.26	26.75	5.01	38.37	35.39	Average	100	286 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	10640.07	35.42	54.00	-18.58	27.43	5.01	38.37	35.39	Average	100	163 VERTICAL
2	10640.10	49.27	74.00	-24.73	41.28	5.01	38.37	35.39	Peak	100	163 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11000.23	48.45	74.00	-25.55	40.22	5.01	38.32	35.10	Peak	100	37 HORIZONTAL
2	11000.49	35.67	54.00	-18.33	27.44	5.01	38.32	35.10	Average	100	37 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11000.13	47.98	74.00	-26.02	39.77	5.01	38.30	35.10	Peak	100	305 VERTICAL
2	11000.44	35.34	54.00	-18.66	27.13	5.01	38.30	35.10	Average	100	305 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11159.99	50.74	74.00	-23.26	42.40	5.04	38.47	35.17	Peak	123	64 HORIZONTAL
2	11160.34	37.30	54.00	-16.70	28.96	5.04	38.47	35.17	Average	123	64 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBmV	dB			
1	11159.88	56.02	74.00	-17.98	47.68	5.04	38.47	35.17	Peak	121	344 VERTICAL
2	11160.02	41.14	54.00	-12.86	32.80	5.04	38.47	35.17	Average	121	344 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11399.75	36.45	54.00	-17.55	27.90	5.10	38.70	35.25	Average	100	253	HORIZONTAL
2	11399.93	48.85	74.00	-25.15	40.30	5.10	38.70	35.25	Peak	100	253	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11399.51	38.02	54.00	-15.98	29.47	5.10	38.70	35.25	Average	100	146	VERTICAL
2	11399.98	50.51	74.00	-23.49	41.96	5.10	38.70	35.25	Peak	100	146	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15809.54	50.63	74.00	-23.37	42.53	6.14	37.39	35.43	Peak	100	241	HORIZONTAL
2	15810.50	37.79	54.00	-16.21	29.71	6.14	37.37	35.43	Average	100	241	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15809.50	51.49	74.00	-22.51	43.39	6.14	37.39	35.43	Peak	125	166	VERTICAL
2	15810.49	38.17	54.00	-15.83	30.09	6.14	37.37	35.43	Average	125	166	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10619.57	35.05	54.00	-18.95	27.08	5.01	38.38	35.42	Average	100	146 HORIZONTAL
2	10619.82	48.13	74.00	-25.87	40.16	5.01	38.38	35.42	Peak	100	146 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	10620.07	36.73	54.00	-17.27	28.76	5.01	38.38	35.42	Average	100	241 VERTICAL
2	10620.33	49.38	74.00	-24.62	41.41	5.01	38.38	35.42	Peak	100	241 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11020.04	49.04	74.00	-24.96	40.80	5.02	38.33	35.11	Peak	100	153	HORIZONTAL		
2	11020.36	36.09	54.00	-17.91	27.85	5.02	38.33	35.11	Average	100	153	HORIZONTAL		

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	cm	deg	
1	11020.30	36.44	54.00	-17.56	28.21	5.02	38.32	35.11	Average	100	250	VERTICAL		
2	11020.45	48.89	74.00	-25.11	40.66	5.02	38.32	35.11	Peak	100	250	VERTICAL		



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	11100.08	49.84	74.00	-24.16	41.55	5.03	38.40	35.14	Peak	100	172	HORIZONTAL
2	11100.38	37.06	54.00	-16.94	28.77	5.03	38.40	35.14	Average	100	172	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m		cm	deg	
1	11100.07	38.19	54.00	-15.81	29.90	5.03	38.40	35.14	Average	129	323	VERTICAL
2	11100.42	49.68	74.00	-24.32	41.39	5.03	38.40	35.14	Peak	129	323	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11339.83	49.62	74.00	-24.38	41.15	5.08	38.63	35.24	Peak	100	237	HORIZONTAL
2	11340.07	36.60	54.00	-17.40	28.13	5.08	38.63	35.24	Average	100	237	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	11340.00	39.64	54.00	-14.36	31.17	5.08	38.63	35.24	Average	100	175	VERTICAL
2	11340.18	52.55	74.00	-21.45	44.08	5.08	38.63	35.24	Peak	100	175	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10579.55	48.21	74.00	-25.79	40.26	5.01	38.38	35.44	Peak	100	60	HORIZONTAL
2	10579.69	35.24	54.00	-18.76	27.29	5.01	38.38	35.44	Average	100	60	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10579.66	49.46	74.00	-24.54	41.51	5.01	38.38	35.44	Peak	100	315	VERTICAL
2	10580.09	36.85	54.00	-17.15	28.90	5.01	38.38	35.44	Average	100	315	VERTICAL

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 5 (Ant.6 Facade antenna / 2.5dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB									
1 11059.95	36.13	54.00	-17.87	27.86	5.03	38.37	35.13	Average	100	151	HORIZONTAL	
2 11060.24	48.94	74.00	-25.06	40.67	5.03	38.37	35.13	Peak	100	151	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB									
1 10579.66	49.46	74.00	-24.54	41.51	5.01	38.38	35.44	Peak	100	315	VERTICAL	
2 10580.09	36.85	54.00	-17.15	28.90	5.01	38.38	35.44	Average	100	315	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	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15710.06	51.11	74.00	-22.89	42.87	6.14	37.48	35.38	Peak	100	85	HORIZONTAL
2	15715.90	38.64	54.00	-15.36	30.40	6.14	37.48	35.38	Average	100	85	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15716.83	53.34	74.00	-20.66	45.11	6.14	37.48	35.39	Peak	100	223	VERTICAL
2	15716.89	40.02	54.00	-13.98	31.79	6.14	37.48	35.39	Average	100	223	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10551.04	49.42	74.00	-24.58	41.48	5.01	38.39	35.46	Peak	100	343 HORIZONTAL
2	10569.40	37.23	54.00	-16.77	29.29	5.01	38.39	35.46	Average	100	343 HORIZONTAL
3	15831.28	39.46	54.00	-14.54	31.40	6.14	37.36	35.44	Average	100	358 HORIZONTAL
4	15833.88	50.51	74.00	-23.49	42.45	6.14	37.36	35.44	Peak	100	358 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10550.72	37.02	54.00	-16.98	29.08	5.01	38.39	35.46	Average	100	255 VERTICAL
2	10562.56	50.06	74.00	-23.94	42.12	5.01	38.39	35.46	Peak	100	255 VERTICAL
3	15834.36	39.52	54.00	-14.48	31.46	6.14	37.36	35.44	Average	100	344 VERTICAL
4	15840.32	51.58	74.00	-22.42	43.52	6.14	37.36	35.44	Peak	100	344 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10602.66	36.09	54.00	-17.91	28.12	5.01	38.38	35.42	Average	100	297 HORIZONTAL
2	10602.79	48.79	74.00	-25.21	40.82	5.01	38.38	35.42	Peak	100	297 HORIZONTAL
3	15905.77	37.08	54.00	-16.92	29.08	6.15	37.29	35.44	Average	100	222 HORIZONTAL
4	15909.58	49.30	74.00	-24.70	41.30	6.15	37.29	35.44	Peak	100	222 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
1	10600.96	48.52	74.00	-25.48	40.55	5.01	38.38	35.42	Peak	100	209 VERTICAL
2	10601.15	36.29	54.00	-17.71	28.32	5.01	38.38	35.42	Average	100	209 VERTICAL
3	15903.59	37.27	54.00	-16.73	29.27	6.15	37.29	35.44	Average	100	138 VERTICAL
4	15905.64	49.81	74.00	-24.19	41.81	6.15	37.29	35.44	Peak	100	138 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10640.61	36.42	54.00	-17.58	28.43	5.01	38.37	35.39	Average	100	250 HORIZONTAL
2	10645.67	49.71	74.00	-24.29	41.72	5.01	38.37	35.39	Peak	100	250 HORIZONTAL
3	15950.93	36.78	54.00	-17.22	28.84	6.15	37.23	35.44	Average	100	163 HORIZONTAL
4	15962.02	49.55	74.00	-24.45	41.61	6.15	37.23	35.44	Peak	100	163 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10637.18	36.43	54.00	-17.57	28.44	5.01	38.37	35.39	Average	100	129 VERTICAL
2	10642.12	49.40	74.00	-24.60	41.41	5.01	38.37	35.39	Peak	100	129 VERTICAL
3	15952.92	36.83	54.00	-17.17	28.89	6.15	37.23	35.44	Average	100	199 VERTICAL
4	15961.96	49.92	74.00	-24.08	41.98	6.15	37.23	35.44	Peak	100	199 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	10996.35	48.95	74.00	-25.05	40.72	5.01	38.32	35.10	Peak	100	234	HORIZONTAL
2	11001.99	36.76	54.00	-17.24	28.53	5.01	38.32	35.10	Average	100	234	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBuV	dB	dB/m		cm	deg	
1	10999.07	36.77	54.00	-17.23	28.56	5.01	38.30	35.10	Average	100	107	VERTICAL
2	11002.37	49.61	74.00	-24.39	41.40	5.01	38.30	35.10	Peak	100	107	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11160.96	52.70	74.00	-21.30	44.36	5.04	38.47	35.17	Peak	100	207	HORIZONTAL
2	11162.56	40.55	54.00	-13.45	32.20	5.05	38.47	35.17	Average	100	207	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11161.44	52.65	74.00	-21.35	44.31	5.04	38.47	35.17	Peak	100	172	VERTICAL
2	11162.56	39.90	54.00	-14.10	31.55	5.05	38.47	35.17	Average	100	172	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11391.12	49.62	74.00	-24.38	41.10	5.09	38.68	35.25	Peak	100	206 HORIZONTAL
2	11394.01	37.12	54.00	-16.88	28.59	5.10	38.68	35.25	Average	100	206 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11395.74	49.60	74.00	-24.40	41.07	5.10	38.68	35.25	Peak	100	43 VERTICAL
2	11405.87	37.17	54.00	-16.83	28.62	5.10	38.70	35.25	Average	100	43 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15814.89	49.38	74.00	-24.62	41.30	6.14	37.37	35.43	Peak	100	207 HORIZONTAL
2	15818.09	37.84	54.00	-16.16	29.77	6.14	37.37	35.44	Average	100	207 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15815.73	49.74	74.00	-24.26	41.66	6.14	37.37	35.43	Peak	100	96 VERTICAL
2	15817.77	37.74	54.00	-16.26	29.66	6.14	37.37	35.43	Average	100	96 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10619.54	36.57	54.00	-17.43	28.60	5.01	38.38	35.42	Average	100	207 HORIZONTAL
2	10620.92	49.55	74.00	-24.45	41.58	5.01	38.38	35.42	Peak	100	207 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10620.32	36.65	54.00	-17.35	28.68	5.01	38.38	35.42	Average	100	68 VERTICAL
2	10621.77	49.28	74.00	-24.72	41.31	5.01	38.38	35.42	Peak	100	68 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11010.29	36.72	54.00	-17.28	28.48	5.02	38.33	35.11	Average	100	210 HORIZONTAL
2	11029.10	49.27	74.00	-24.73	41.02	5.02	38.34	35.11	Peak	100	210 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11020.29	36.72	54.00	-17.28	28.49	5.02	38.32	35.11	Average	100	35 VERTICAL
2	11026.76	49.43	74.00	-24.57	41.19	5.02	38.33	35.11	Peak	100	35 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11100.08	50.18	74.00	-23.82	41.89	5.03	38.40	35.14	Peak	100	226 HORIZONTAL
2	11101.20	38.22	54.00	-15.78	29.93	5.03	38.40	35.14	Average	100	226 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11092.23	37.94	54.00	-16.06	29.65	5.03	38.40	35.14	Average	100	174 VERTICAL
2	11110.66	50.16	74.00	-23.84	41.86	5.03	38.42	35.15	Peak	100	174 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11327.34	51.00	74.00	-23.00	42.53	5.08	38.62	35.23	Peak	100	177 HORIZONTAL
2	11348.97	39.20	54.00	-14.80	30.70	5.09	38.65	35.24	Average	100	177 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11344.41	37.78	54.00	-16.22	29.30	5.09	38.63	35.24	Average	100	46 VERTICAL
2	11361.07	49.71	74.00	-24.29	41.21	5.09	38.65	35.24	Peak	100	46 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15872.32	48.14	74.00	-25.86	40.12	6.14	37.32	35.44	Peak	100	232	HORIZONTAL
2	15872.72	36.99	54.00	-17.01	28.97	6.14	37.32	35.44	Average	100	232	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15856.06	50.14	74.00	-23.86	42.11	6.14	37.34	35.45	Peak	100	136	VERTICAL
2	15884.50	37.16	54.00	-16.84	29.15	6.15	37.30	35.44	Average	100	136	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over	Read	Cable			Preamp	A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor				
1	11075.54	49.45	74.00	-24.55	41.17	5.03	38.38	35.13	Peak	100	265	HORIZONTAL
2	11077.15	36.82	54.00	-17.18	28.54	5.03	38.38	35.13	Average	100	265	HORIZONTAL

Vertical

Freq	Level	Limit		Over	Read	Cable			Preamp	A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor				
1	11080.91	47.89	74.00	-26.11	39.61	5.03	38.38	35.13	Peak	100	171	VERTICAL
2	11081.31	36.69	54.00	-17.31	28.41	5.03	38.38	35.13	Average	100	171	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15785.70	52.67	74.00	-21.33	44.54	6.14	37.41	35.42	Peak	100	200	HORIZONTAL
2	15791.20	39.62	54.00	-14.38	31.49	6.14	37.41	35.42	Average	100	200	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15783.20	40.00	54.00	-14.00	31.87	6.14	37.41	35.42	Average	100	83	VERTICAL
2	15786.30	52.67	74.00	-21.33	44.54	6.14	37.41	35.42	Peak	100	83	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15842.60	51.83	74.00	-22.17	43.77	6.14	37.36	35.44	Peak	100	47 HORIZONTAL
2	15843.20	39.93	54.00	-14.07	31.87	6.14	37.36	35.44	Average	100	47 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15842.20	52.05	74.00	-21.95	43.99	6.14	37.36	35.44	Peak	102	355 VERTICAL
2	15843.00	39.86	54.00	-14.14	31.80	6.14	37.36	35.44	Average	102	355 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10590.30	48.28	74.00	-25.72	40.33	5.01	38.38	35.44	Peak	100	207 HORIZONTAL
2	10597.90	36.61	54.00	-17.39	28.66	5.01	38.38	35.44	Average	100	207 HORIZONTAL
3	15884.00	39.82	54.00	-14.18	31.81	6.15	37.30	35.44	Average	100	126 HORIZONTAL
4	15906.60	52.41	74.00	-21.59	44.41	6.15	37.29	35.44	Peak	100	126 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10605.00	46.44	74.00	-27.56	38.47	5.01	38.38	35.42	Peak	100	267 VERTICAL
2	10605.20	36.45	54.00	-17.55	28.48	5.01	38.38	35.42	Average	100	267 VERTICAL
3	15891.30	51.70	74.00	-22.30	43.69	6.15	37.30	35.44	Peak	100	166 VERTICAL
4	15907.70	39.75	54.00	-14.25	31.75	6.15	37.29	35.44	Average	100	166 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10620.50	36.43	54.00	-17.57	28.46	5.01	38.38	35.42	Average	100	199 HORIZONTAL
2	10622.30	48.87	74.00	-25.13	40.90	5.01	38.38	35.42	Peak	100	199 HORIZONTAL
3	15970.60	39.67	54.00	-14.33	31.74	6.15	37.22	35.44	Average	100	266 HORIZONTAL
4	15982.90	51.73	74.00	-22.27	43.81	6.15	37.20	35.43	Peak	100	266 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	10615.00	36.49	54.00	-17.51	28.52	5.01	38.38	35.42	Average	100	136 VERTICAL
2	10619.20	48.44	74.00	-25.56	40.47	5.01	38.38	35.42	Peak	100	136 VERTICAL
3	15969.30	39.78	54.00	-14.22	31.85	6.15	37.22	35.44	Average	100	217 VERTICAL
4	15975.10	52.80	74.00	-21.20	44.86	6.15	37.22	35.43	Peak	100	217 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	10986.10	48.92	74.00	-25.08	40.71	5.01	38.30	35.10	Peak	100	174 HORIZONTAL
2	11021.00	36.21	54.00	-17.79	27.97	5.02	38.33	35.11	Average	100	174 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBm			Loss	Factor	Factor			
1	11012.90	49.28	74.00	-24.72	41.05	5.02	38.32	35.11	Peak	100	77 VERTICAL
2	11020.20	36.23	54.00	-17.77	28.00	5.02	38.32	35.11	Average	100	77 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11157.10	38.58	54.00	-15.42	30.25	5.04	38.45	35.16	Average	100	214 HORIZONTAL
2	11162.00	50.36	74.00	-23.64	42.01	5.05	38.47	35.17	Peak	100	214 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	11162.70	39.20	54.00	-14.80	30.85	5.05	38.47	35.17	Average	100	125 VERTICAL
2	11163.80	50.43	74.00	-23.57	42.08	5.05	38.47	35.17	Peak	100	125 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	11412.40	49.64	74.00	-24.36	41.09	5.10	38.70	35.25	Peak	100	203	HORIZONTAL
2	11422.60	36.91	54.00	-17.09	28.35	5.10	38.72	35.26	Average	100	203	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m				
1	11387.70	49.15	74.00	-24.85	40.63	5.09	38.68	35.25	Peak	100	73	VERTICAL
2	11395.90	36.75	54.00	-17.25	28.22	5.10	38.68	35.25	Average	100	73	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15805.90	53.10	74.00	-20.90	45.00	6.14	37.39	35.43	Peak	100	234 HORIZONTAL
2	15807.60	39.99	54.00	-14.01	31.89	6.14	37.39	35.43	Average	100	234 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15815.60	52.53	74.00	-21.47	44.45	6.14	37.37	35.43	Peak	100	313 VERTICAL
2	15821.20	40.18	54.00	-13.82	32.11	6.14	37.37	35.44	Average	100	313 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10602.20	36.29	54.00	-17.71	28.32	5.01	38.38	35.42	Average	100	258 HORIZONTAL
2	10608.90	48.78	74.00	-25.22	40.81	5.01	38.38	35.42	Peak	100	258 HORIZONTAL
3	15922.90	50.26	74.00	-23.74	42.28	6.15	37.27	35.44	Peak	100	258 HORIZONTAL
4	15923.90	39.80	54.00	-14.20	31.82	6.15	37.27	35.44	Average	100	258 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	10599.60	36.25	54.00	-17.75	28.28	5.01	38.38	35.42	Average	100	55 VERTICAL
2	10611.80	49.19	74.00	-24.81	41.22	5.01	38.38	35.42	Peak	100	55 VERTICAL
3	15916.80	39.70	54.00	-14.30	31.72	6.15	37.27	35.44	Average	100	151 VERTICAL
4	15918.10	49.80	74.00	-24.20	41.82	6.15	37.27	35.44	Peak	100	151 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11014.20	48.50	74.00	-25.50	40.26	5.02	38.33	35.11	Peak	100	276 HORIZONTAL
2	11040.90	36.61	54.00	-17.39	28.35	5.02	38.36	35.12	Average	100	276 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	11007.50	49.31	74.00	-24.69	41.09	5.01	38.32	35.11	Peak	100	313 VERTICAL
2	11044.70	36.59	54.00	-17.41	28.34	5.02	38.35	35.12	Average	100	313 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m					
1	11098.90	37.63	54.00	-16.37	29.34	5.03	38.40	35.14	Average		100	184	HORIZONTAL
2	11100.60	49.88	74.00	-24.12	41.59	5.03	38.40	35.14	Peak		100	184	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m						
1	11094.20	37.36	54.00	-16.64	29.07	5.03	38.40	35.14	Average		100	38	VERTICAL	
2	11100.70	49.60	74.00	-24.40	41.31	5.03	38.40	35.14	Peak		100	38	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11335.80	38.33	54.00	-15.67	29.85	5.08	38.63	35.23	Average	100	144 HORIZONTAL
2	11344.00	49.52	74.00	-24.48	41.04	5.09	38.63	35.24	Peak	100	144 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	11340.60	37.70	54.00	-16.30	29.22	5.09	38.63	35.24	Average	100	252 VERTICAL
2	11350.50	49.97	74.00	-24.03	41.47	5.09	38.65	35.24	Peak	100	252 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dB	dBuV	dB		cm	deg	
1	15887.30	51.50	74.00	-22.50	43.49	6.15	37.30	35.44	Peak	100	218	HORIZONTAL
2	15888.10	39.49	54.00	-14.51	31.48	6.15	37.30	35.44	Average	100	218	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m			dB	dBuV	dB		cm	deg	
1	15888.30	49.57	74.00	-24.43	41.56	6.15	37.30	35.44	Peak	100	119	VERTICAL
2	15889.00	39.42	54.00	-14.58	31.41	6.15	37.30	35.44	Average	100	119	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11063.84	48.82	74.00	-25.18	40.55	5.03	38.37	35.13	Peak	100	222	HORIZONTAL
2	11066.40	36.43	54.00	-17.57	28.16	5.03	38.37	35.13	Average	100	222	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11058.48	49.40	74.00	-24.60	41.14	5.02	38.37	35.13	Peak	100	141	VERTICAL
2	11068.04	36.48	54.00	-17.52	28.21	5.03	38.37	35.13	Average	100	141	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch52 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15780.29	52.83	74.00	-21.17	44.70	6.14	37.41	35.42	Peak	100	134 HORIZONTAL
2	15780.67	40.63	54.00	-13.37	32.50	6.14	37.41	35.42	Average	100	134 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15781.67	39.67	54.00	-14.33	31.54	6.14	37.41	35.42	Average	100	238 VERTICAL
2	15781.79	52.02	74.00	-21.98	43.89	6.14	37.41	35.42	Peak	100	238 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch56 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m			cm	deg	
1	10550.00	35.80	54.00	-18.20	27.86	5.01	38.39	35.46	Average	116	344	HORIZONTAL	
2	10552.40	50.10	74.00	-23.90	42.16	5.01	38.39	35.46	Peak	116	344	HORIZONTAL	
3	15840.76	39.02	54.00	-14.98	30.96	6.14	37.36	35.44	Average	101	352	HORIZONTAL	
4	15843.60	53.10	74.00	-20.90	45.05	6.14	37.36	35.45	Peak	101	352	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV	dB	dB/m			cm	deg	
1	10565.92	49.49	74.00	-24.51	41.55	5.01	38.39	35.46	Peak	101	2	VERTICAL	
2	10566.04	36.07	54.00	-17.93	28.13	5.01	38.39	35.46	Average	101	2	VERTICAL	
3	15832.44	52.03	74.00	-21.97	43.97	6.14	37.36	35.44	Peak	101	358	VERTICAL	
4	15838.48	39.33	54.00	-14.67	31.27	6.14	37.36	35.44	Average	101	358	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch60 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15899.43	53.00	74.00	-21.00	45.00	6.15	37.29	35.44	Peak	100	130 HORIZONTAL
2	15900.23	39.39	54.00	-14.61	31.39	6.15	37.29	35.44	Average	100	130 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15899.26	39.36	54.00	-14.64	31.36	6.15	37.29	35.44	Average	100	190 VERTICAL
2	15900.57	52.12	74.00	-21.88	44.12	6.15	37.29	35.44	Peak	100	190 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch64 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15961.36	52.77	74.00	-21.23	44.83	6.15	37.23	35.44	Peak	100	191	HORIZONTAL
2	15962.30	39.36	54.00	-14.64	31.42	6.15	37.23	35.44	Average	100	191	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15961.26	39.30	54.00	-14.70	31.36	6.15	37.23	35.44	Average	100	129	VERTICAL
2	15962.02	52.41	74.00	-21.59	44.47	6.15	37.23	35.44	Peak	100	129	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch100 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	10999.41	48.28	74.00	-25.72	40.05	5.01	38.32	35.10	Peak	100	115 HORIZONTAL
2	11000.92	35.98	54.00	-18.02	27.75	5.01	38.32	35.10	Average	100	115 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	10998.63	48.79	74.00	-25.21	40.58	5.01	38.30	35.10	Peak	100	205 VERTICAL
2	11000.54	35.90	54.00	-18.10	27.69	5.01	38.30	35.10	Average	100	205 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch116 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dB	dB			
1	11161.11	52.47	74.00	-21.53	44.13	5.04	38.47	35.17	Peak	100	219 HORIZONTAL
2	11161.21	38.37	54.00	-15.63	30.03	5.04	38.47	35.17	Average	100	219 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBuV/m			dBm	dB	dB			
1	11158.25	51.10	74.00	-22.90	42.78	5.04	38.45	35.17	Peak	100	130 VERTICAL
2	11158.64	38.35	54.00	-15.65	30.01	5.04	38.47	35.17	Average	100	130 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 Ch140 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11400.36	49.17	74.00	-24.83	40.62	5.10	38.70	35.25	Peak	100	132	HORIZONTAL
2	11401.32	36.25	54.00	-17.75	27.70	5.10	38.70	35.25	Average	100	132	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11400.42	49.45	74.00	-24.55	40.90	5.10	38.70	35.25	Peak	100	177	VERTICAL
2	11401.61	36.39	54.00	-17.61	27.84	5.10	38.70	35.25	Average	100	177	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch54 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15805.40	39.53	54.00	-14.47	31.43	6.14	37.39	35.43	Average	100	252 HORIZONTAL
2	15812.84	52.64	74.00	-21.36	44.56	6.14	37.37	35.43	Peak	100	252 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15805.62	39.68	54.00	-14.32	31.58	6.14	37.39	35.43	Average	100	136 VERTICAL
2	15807.48	53.11	74.00	-20.89	45.01	6.14	37.39	35.43	Peak	100	136 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch 62 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15927.08	39.36	54.00	-14.64	31.38	6.15	37.27	35.44	Average	100	284 HORIZONTAL
2	15929.96	52.14	74.00	-21.86	44.18	6.15	37.25	35.44	Peak	100	284 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15926.50	39.46	54.00	-14.54	31.48	6.15	37.27	35.44	Average	100	195 VERTICAL
2	15927.26	52.27	74.00	-21.73	44.29	6.15	37.27	35.44	Peak	100	195 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch102 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11015.42	48.71	74.00	-25.29	40.47	5.02	38.33	35.11	Peak	100	260	HORIZONTAL
2	11017.46	35.66	54.00	-18.34	27.42	5.02	38.33	35.11	Average	100	260	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11019.44	35.93	54.00	-18.07	27.70	5.02	38.32	35.11	Average	100	155	VERTICAL
2	11020.30	48.49	74.00	-25.51	40.26	5.02	38.32	35.11	Peak	100	155	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch110 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB					
1	11076.02	49.97	74.00	-24.03	41.69	5.03	38.38	35.13	Peak	100	105	HORIZONTAL	
2	11083.56	36.73	54.00	-17.27	28.46	5.03	38.38	35.14	Average	100	105	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dBuV/m	dB	dB					
1	11076.60	49.51	74.00	-24.49	41.23	5.03	38.38	35.13	Peak	100	198	VERTICAL	
2	11079.60	36.51	54.00	-17.49	28.23	5.03	38.38	35.13	Average	100	198	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 Ch134 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	dB	cm	deg	
1	11338.74	36.97	54.00	-17.03	28.50	5.08	38.63	35.24	Average	100	215	HORIZONTAL
2	11338.76	49.24	74.00	-24.76	40.77	5.08	38.63	35.24	Peak	100	215	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	dB	cm	deg	
1	11338.30	49.67	74.00	-24.33	41.20	5.08	38.63	35.24	Peak	100	58	VERTICAL
2	11338.72	36.70	54.00	-17.30	28.23	5.08	38.63	35.24	Average	100	58	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch58 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15874.04	39.01	54.00	-14.99	30.99	6.14	37.32	35.44	Average	100	265 HORIZONTAL
2	15874.54	51.81	74.00	-22.19	43.79	6.14	37.32	35.44	Peak	100	265 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		
1	15866.22	39.16	54.00	-14.84	31.15	6.14	37.32	35.45	Average	100	158 VERTICAL
2	15868.04	52.58	74.00	-21.42	44.57	6.14	37.32	35.45	Peak	100	158 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 Ch 106 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Jun. 01, 2013	Test Mode	Mode 6 (Ant.9 Panel antenna / 9.2dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11056.02	38.01	54.00	-15.99	29.75	5.02	38.36	35.12	Average	100	202	HORIZONTAL
2	11064.96	49.68	74.00	-24.32	41.41	5.03	38.37	35.13	Peak	100	202	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
		Line	dB			dBuV	dB	dB/m		cm	deg		
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB/m	dB	cm	deg	cm	deg
1	11058.60	48.74	74.00	-25.26	40.48	5.02	38.37	35.13	Peak	100	100	VERTICAL	
2	11060.20	36.68	54.00	-17.32	28.41	5.03	38.37	35.13	Average	100	100	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	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15776.12	38.20	54.00	-15.80	30.06	6.14	37.42	35.42	Average	100	144	HORIZONTAL
2	15783.72	50.30	74.00	-23.70	42.17	6.14	37.41	35.42	Peak	100	144	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15773.43	52.03	74.00	-21.97	43.89	6.14	37.42	35.42	Peak	100	306	VERTICAL
2	15779.26	39.15	54.00	-14.85	31.02	6.14	37.41	35.42	Average	100	306	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dB	dBm	dB					
1	10590.64	36.14	54.00	-17.86	28.19	5.01	38.38	35.44	Average		100	168	HORIZONTAL
2	10593.04	49.69	74.00	-24.31	41.74	5.01	38.38	35.44	Peak		100	168	HORIZONTAL
3	15901.48	39.95	54.00	-14.05	31.95	6.15	37.29	35.44	Average		100	250	HORIZONTAL
4	15905.80	52.49	74.00	-21.51	44.49	6.15	37.29	35.44	Peak		100	250	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBm			dBm	dB	dBm					
1	10601.08	36.52	54.00	-17.48	28.55	5.01	38.38	35.42	Average		100	93	VERTICAL
2	10601.80	48.82	74.00	-25.18	40.85	5.01	38.38	35.42	Peak		100	93	VERTICAL
3	15899.44	51.78	74.00	-22.22	43.78	6.15	37.29	35.44	Peak		100	148	VERTICAL
4	15904.68	39.92	54.00	-14.08	31.92	6.15	37.29	35.44	Average		100	148	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			cm	deg	
1	10639.52	36.72	54.00	-17.28	28.73	5.01	38.37	35.39	Average	100	211	HORIZONTAL	
2	10646.56	49.45	74.00	-24.55	41.46	5.01	38.37	35.39	Peak	100	211	HORIZONTAL	
3	15968.36	51.93	74.00	-22.07	44.00	6.15	37.22	35.44	Peak	100	286	HORIZONTAL	
4	15969.96	39.58	54.00	-14.42	31.65	6.15	37.22	35.44	Average	100	286	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			cm	deg	
1	10640.24	36.22	54.00	-17.78	28.23	5.01	38.37	35.39	Average	100	83	VERTICAL	
2	10643.12	49.09	74.00	-24.91	41.10	5.01	38.37	35.39	Peak	100	83	VERTICAL	
3	15966.88	39.69	54.00	-14.31	31.76	6.15	37.22	35.44	Average	100	177	VERTICAL	
4	15966.88	52.42	74.00	-21.58	44.49	6.15	37.22	35.44	Peak	100	177	VERTICAL	



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11003.32	34.99	54.00	-19.01	26.76	5.01	38.32	35.10	Average	100	184	HORIZONTAL
2	11008.48	47.75	74.00	-26.25	39.52	5.01	38.33	35.11	Peak	100	184	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10991.28	34.88	54.00	-19.12	26.67	5.01	38.30	35.10	Average	100	90	VERTICAL
2	11004.08	47.79	74.00	-26.21	39.58	5.01	38.30	35.10	Peak	100	90	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 1Tx / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	dB	cm	deg	
1	11162.40	37.52	54.00	-16.48	29.17	5.05	38.47	35.17	Average	100	214	HORIZONTAL
2	11168.92	50.57	74.00	-23.43	42.22	5.05	38.47	35.17	Peak	100	214	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB/m	dB	dB	cm	deg	
1	11157.84	48.97	74.00	-25.03	40.64	5.04	38.45	35.16	Peak	100	27	VERTICAL
2	11163.44	36.14	54.00	-17.86	27.79	5.05	38.47	35.17	Average	100	27	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch140 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11397.76	38.74	54.00	-15.26	30.19	5.10	38.70	35.25	Average	100	218	HORIZONTAL
2	11402.56	51.61	74.00	-22.39	43.06	5.10	38.70	35.25	Peak	100	218	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m		cm	deg	
1	11392.04	49.47	74.00	-24.53	40.94	5.10	38.68	35.25	Peak	100	257	VERTICAL
2	11403.64	36.44	54.00	-17.56	27.89	5.10	38.70	35.25	Average	100	257	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch54 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15800.68	51.43	74.00	-22.57	43.33	6.14	37.39	35.43	Peak	100	200 HORIZONTAL
2	15805.52	38.73	54.00	-15.27	30.63	6.14	37.39	35.43	Average	100	200 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	15801.56	39.05	54.00	-14.95	30.95	6.14	37.39	35.43	Average	100	44 VERTICAL
2	15812.56	50.93	74.00	-23.07	42.85	6.14	37.37	35.43	Peak	100	44 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch 62 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10621.76	49.31	74.00	-24.69	41.34	5.01	38.38	35.42	Peak	100	221 HORIZONTAL
2	10624.24	36.28	54.00	-17.72	28.28	5.01	38.38	35.39	Average	100	221 HORIZONTAL
3	15923.04	39.36	54.00	-14.64	31.38	6.15	37.27	35.44	Average	100	300 HORIZONTAL
4	15925.60	52.18	74.00	-21.82	44.20	6.15	37.27	35.44	Peak	100	300 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	10610.36	36.10	54.00	-17.90	28.13	5.01	38.38	35.42	Average	100	153 VERTICAL
2	10624.28	48.33	74.00	-25.67	40.33	5.01	38.38	35.39	Peak	100	153 VERTICAL
3	15921.52	39.59	54.00	-14.41	31.61	6.15	37.27	35.44	Average	100	242 VERTICAL
4	15922.48	52.38	74.00	-21.62	44.40	6.15	37.27	35.44	Peak	100	242 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch102 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBuV	dB			
1	11017.52	47.19	74.00	-26.81	38.95	5.02	38.33	35.11	Peak	100	208 HORIZONTAL
2	11028.92	35.02	54.00	-18.98	26.77	5.02	38.34	35.11	Average	100	208 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBm	dBm			dB	dBuV	dB			
1	11021.32	48.23	74.00	-25.77	40.00	5.02	38.32	35.11	Peak	100	123 VERTICAL
2	11028.36	34.92	54.00	-19.08	26.68	5.02	38.33	35.11	Average	100	123 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch110 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11096.32	35.57	54.00	-18.43	27.28	5.03	38.40	35.14	Average	100	230	HORIZONTAL
2	11100.96	47.77	74.00	-26.23	39.48	5.03	38.40	35.14	Peak	100	230	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	11093.56	47.87	74.00	-26.13	39.58	5.03	38.40	35.14	Peak	100	107	VERTICAL
2	11104.48	35.40	54.00	-18.60	27.11	5.03	38.40	35.14	Average	100	107	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 Ch134 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11336.44	51.34	74.00	-22.66	42.87	5.08	38.63	35.24	Peak	100	221	HORIZONTAL
2	11342.28	39.06	54.00	-14.94	30.58	5.09	38.63	35.24	Average	100	221	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11344.08	49.74	74.00	-24.26	41.26	5.09	38.63	35.24	Peak	100	51	VERTICAL
2	11349.28	36.72	54.00	-17.28	28.22	5.09	38.65	35.24	Average	100	51	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch58 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBmV/m	dBmV/m			dB	dBmV	dB			
1	15877.95	50.16	74.00	-23.84	42.14	6.14	37.32	35.44	Peak	100	92 HORIZONTAL
2	15886.54	37.60	54.00	-16.40	29.59	6.15	37.30	35.44	Average	100	92 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBmV/m	dBmV/m			dB	dBmV	dB			
1	15863.33	49.69	74.00	-24.31	41.68	6.14	37.32	35.45	Peak	100	146 VERTICAL
2	15884.10	37.62	54.00	-16.38	29.61	6.15	37.30	35.44	Average	100	146 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 Ch 106 / 1TX / Chain 1
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11062.85	36.48	54.00	-17.52	28.21	5.03	38.37	35.13	Average	100	249 HORIZONTAL
2	11093.97	50.90	74.00	-23.10	42.61	5.03	38.40	35.14	Peak	100	249 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	11072.82	37.31	54.00	-16.69	29.04	5.03	38.37	35.13	Average	100	158 VERTICAL
2	11091.79	50.17	74.00	-23.83	41.88	5.03	38.40	35.14	Peak	100	158 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch52 / 2TX / Chain 1 + Chain 2
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15788.85	38.41	54.00	-15.59	30.28	6.14	37.41	35.42	Average	100	321	HORIZONTAL
2	15789.78	50.62	74.00	-23.38	42.49	6.14	37.41	35.42	Peak	100	321	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			dB	dBuV	dB		cm	deg	
1	15777.76	53.18	74.00	-20.82	45.05	6.14	37.41	35.42	Peak	100	153	VERTICAL
2	15778.78	40.03	54.00	-13.97	31.90	6.14	37.41	35.42	Average	100	153	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch60 / 2TX / Chain 1 + Chain 2
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			cm	deg	
1	10600.19	37.82	54.00	-16.18	29.85	5.01	38.38	35.42	Average	100	186	HORIZONTAL	
2	10602.24	50.55	74.00	-23.45	42.58	5.01	38.38	35.42	Peak	100	186	HORIZONTAL	
3	15901.15	38.10	54.00	-15.90	30.10	6.15	37.29	35.44	Average	100	282	HORIZONTAL	
4	15905.10	50.55	74.00	-23.45	42.55	6.15	37.29	35.44	Peak	100	282	HORIZONTAL	

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable			Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			cm	deg	
1	10600.71	37.51	54.00	-16.49	29.54	5.01	38.38	35.42	Average	100	93	VERTICAL	
2	10608.56	50.14	74.00	-23.86	42.17	5.01	38.38	35.42	Peak	100	93	VERTICAL	
3	15890.29	38.26	54.00	-15.74	30.25	6.15	37.30	35.44	Average	100	189	VERTICAL	
4	15903.21	51.12	74.00	-22.88	43.12	6.15	37.29	35.44	Peak	100	189	VERTICAL	

Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch64 / 2TX / Chain 1 + Chain 2
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
		MHz	dBuV/m	dBuV/m	dB				cm	deg	
1	10636.63	37.03	54.00	-16.97	29.04	5.01	38.37	35.39	Average	100	205 HORIZONTAL
2	10644.13	49.74	74.00	-24.26	41.75	5.01	38.37	35.39	Peak	100	205 HORIZONTAL
3	15956.79	51.04	74.00	-22.96	43.10	6.15	37.23	35.44	Peak	100	279 HORIZONTAL
4	15969.49	38.19	54.00	-15.81	30.26	6.15	37.22	35.44	Average	100	279 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
		MHz	dBuV/m	dBuV/m	dB				cm	deg	
1	10637.37	49.92	74.00	-24.08	41.93	5.01	38.37	35.39	Peak	100	102 VERTICAL
2	10639.29	37.03	54.00	-16.97	29.04	5.01	38.37	35.39	Average	100	102 VERTICAL
3	15964.74	50.78	74.00	-23.22	42.85	6.15	37.22	35.44	Peak	100	186 VERTICAL
4	15968.72	38.19	54.00	-15.81	30.26	6.15	37.22	35.44	Average	100	186 VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch100 / 2TX / Chain 1 + Chain 2
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10992.95	50.32	74.00	-23.68	42.09	5.01	38.32	35.10	Peak	100	208	HORIZONTAL
2	11001.03	37.25	54.00	-16.75	29.02	5.01	38.32	35.10	Average	100	208	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10995.61	37.06	54.00	-16.94	28.85	5.01	38.30	35.10	Average	100	300	VERTICAL
2	11000.10	50.01	74.00	-23.99	41.80	5.01	38.30	35.10	Peak	100	300	VERTICAL



Temperature	25.6°C	Humidity	56%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 Ch116 / 2TX / Chain 1 + Chain 2
Test Date	Jul. 05, 2013	Test Mode	Mode 7 (Ant.10 PIFA antenna / 5.3dBi)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11158.14	55.19	74.00	-18.81	46.87	5.04	38.45	35.17	Peak	100	287	HORIZONTAL
2	11162.31	42.17	54.00	-11.83	33.82	5.05	38.47	35.17	Average	100	287	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11159.20	40.55	54.00	-13.45	32.21	5.04	38.47	35.17	Average	100	273	VERTICAL
2	11161.92	53.57	74.00	-20.43	45.22	5.05	38.47	35.17	Peak	100	273	VERTICAL