



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
		Line	dB			dB	dB	dB/m	deg	cm		
1 a	4823.92	30.30	54.00	-23.70	29.02	4.08	35.26	32.46	275	100	Average	HORIZONTAL
2 p	4824.19	44.14	74.00	-29.86	42.86	4.08	35.26	32.46	275	100	Peak	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
		Line	dB			dB	dB	dB/m	deg	cm		
1 p	4823.73	43.81	74.00	-30.19	42.53	4.08	35.26	32.46	22	100	Peak	VERTICAL
2 a	4824.00	31.13	54.00	-22.87	29.85	4.08	35.26	32.46	22	100	Average	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
		Line	dB			Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m										
1 a	4873.97	37.24	54.00	-16.76	35.72	4.11	35.15	32.56	308	189	Average	HORIZONTAL
2 p	4874.11	45.68	74.00	-28.32	44.16	4.11	35.15	32.56	308	189	Peak	HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
		Line	dB			Loss	Factor	Factor	deg	cm		
MHz	dBuV/m	dBuV/m										
1 a	4873.99	40.71	54.00	-13.29	39.19	4.11	35.15	32.56	354	172	Average	VERTICAL
2 p	4874.03	47.27	74.00	-26.73	45.75	4.11	35.15	32.56	354	172	Peak	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

Freq	Level	Limit		Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Over Limit								
1	4923.62	43.95	74.00	-30.05	42.19	4.13	35.03	32.66	265	100 Peak	HORIZONTAL
2	4923.90	31.43	54.00	-22.57	29.67	4.13	35.03	32.66	265	100 Average	HORIZONTAL
3 p	7384.69	49.01	74.00	-24.99	41.78	5.35	34.90	36.78	168	100 Peak	HORIZONTAL
4 a	7385.71	35.83	54.00	-18.17	28.60	5.35	34.90	36.78	168	100 Average	HORIZONTAL

Vertical

Freq	Level	Limit		Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		Line	Over Limit								
1	4924.03	34.94	54.00	-19.06	33.18	4.13	35.03	32.66	2	100 Average	VERTICAL
2	4924.04	45.55	74.00	-28.45	43.79	4.13	35.03	32.66	2	100 Peak	VERTICAL
3 a	7385.73	36.00	54.00	-18.00	28.77	5.35	34.90	36.78	205	100 Average	VERTICAL
4 p	7386.41	49.05	74.00	-24.95	41.82	5.35	34.90	36.78	205	100 Peak	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line 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	4823.64	42.62	74.00	-31.38	41.28	3.31	33.06	35.03	Peak	211	140	HORIZONTAL
2	4823.89	30.53	54.00	-23.47	29.19	3.31	33.06	35.03	Average	211	140	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4823.98	35.19	54.00	-18.81	33.85	3.31	33.06	35.03	Average	120	332	VERTICAL
2	4824.06	43.68	74.00	-30.32	42.34	3.31	33.06	35.03	Peak	120	332	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

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	4873.97	36.26	54.00	-17.74	34.80	3.33	33.16	35.03	Average	100	114	HORIZONTAL
2	4873.98	44.82	74.00	-29.18	43.36	3.33	33.16	35.03	Peak	100	114	HORIZONTAL
3	7307.60	33.48	54.00	-20.52	28.86	4.06	35.96	35.40	Average	100	279	HORIZONTAL
4	7311.84	46.36	74.00	-27.64	41.74	4.06	35.96	35.40	Peak	100	279	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	4873.98	41.47	54.00	-12.53	40.01	3.33	33.16	35.03	Average	100	171	VERTICAL
2	4874.12	47.06	74.00	-26.94	45.60	3.33	33.16	35.03	Peak	100	171	VERTICAL
3	7308.12	35.56	54.00	-18.44	30.94	4.06	35.96	35.40	Average	139	99	VERTICAL
4	7308.58	47.14	74.00	-26.86	42.52	4.06	35.96	35.40	Peak	139	99	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

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	4923.80	41.84	74.00	-32.16	40.24	3.35	33.26	35.01	Peak	100	163 HORIZONTAL
2	4924.09	29.74	54.00	-24.26	28.14	3.35	33.26	35.01	Average	100	163 HORIZONTAL
3	7385.98	46.10	74.00	-27.90	41.35	4.06	36.09	35.40	Peak	100	210 HORIZONTAL
4	7386.16	32.81	54.00	-21.19	28.06	4.06	36.09	35.40	Average	100	210 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	4923.97	43.80	74.00	-30.20	42.20	3.35	33.26	35.01	Peak	141	331 VERTICAL
2	4923.97	35.10	54.00	-18.90	33.50	3.35	33.26	35.01	Average	141	331 VERTICAL
3	7381.46	33.33	54.00	-20.67	28.58	4.06	36.09	35.40	Average	100	76 VERTICAL
4	7390.12	47.43	74.00	-26.57	42.68	4.06	36.09	35.40	Peak	100	76 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB	dB/m	dB	
1	2498.90	42.22	74.00	-31.78	46.63	2.27	28.42	35.10	Peak	100	174 HORIZONTAL
2	2499.23	31.66	54.00	-22.34	36.07	2.27	28.42	35.10	Average	100	174 HORIZONTAL
3	4823.98	34.49	54.00	-19.51	33.15	3.31	33.06	35.03	Average	100	71 HORIZONTAL
4	4824.36	46.74	74.00	-27.26	45.40	3.31	33.06	35.03	Peak	100	71 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	dB/m	dB	
1	2499.23	51.89	54.00	-2.11	56.31	2.27	28.41	35.10	Average	109	71 VERTICAL
2	2500.00	62.01	74.00	-11.99	66.43	2.27	28.41	35.10	Peak	109	71 VERTICAL
3	4823.96	44.97	54.00	-9.03	43.63	3.31	33.06	35.03	Average	100	287 VERTICAL
4	4823.98	48.80	74.00	-25.20	47.46	3.31	33.06	35.03	Peak	100	287 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line 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	4873.97	44.98	54.00	-9.02	43.52	3.33	33.16	35.03	Average	189	96	HORIZONTAL
2	4874.02	49.03	74.00	-24.97	47.57	3.33	33.16	35.03	Peak	189	96	HORIZONTAL
3	7310.95	45.41	74.00	-28.59	40.79	4.06	35.96	35.40	Peak	100	146	HORIZONTAL
4	7312.08	31.20	54.00	-22.80	26.58	4.06	35.96	35.40	Average	100	146	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4873.92	52.79	74.00	-21.21	51.33	3.33	33.16	35.03	Peak	111	284	VERTICAL
2	4873.97	50.51	54.00	-3.49	49.05	3.33	33.16	35.03	Average	111	284	VERTICAL
3	7310.33	44.77	74.00	-29.23	40.15	4.06	35.96	35.40	Peak	100	200	VERTICAL
4	7313.42	31.19	54.00	-22.81	26.57	4.06	35.96	35.40	Average	100	200	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

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	4923.81	44.27	74.00	-29.73	42.67	3.35	33.26	35.01	Peak	134	286 HORIZONTAL
2	4923.97	35.02	54.00	-18.98	33.42	3.35	33.26	35.01	Average	134	286 HORIZONTAL
3	7384.79	33.03	54.00	-20.97	28.28	4.06	36.09	35.40	Average	100	138 HORIZONTAL
4	7386.05	46.54	74.00	-27.46	41.79	4.06	36.09	35.40	Peak	100	138 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	4923.97	42.89	54.00	-11.11	41.29	3.35	33.26	35.01	Average	100	291 VERTICAL
2	4924.05	47.43	74.00	-26.57	45.83	3.35	33.26	35.01	Peak	100	291 VERTICAL
3	7383.75	32.24	54.00	-21.76	27.49	4.06	36.09	35.40	Average	100	224 VERTICAL
4	7384.28	46.61	74.00	-27.39	41.86	4.06	36.09	35.40	Peak	100	224 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°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4827.54	27.71	54.00	-26.29	26.37	3.31	33.06	35.03	Average	100	294	HORIZONTAL
2	4828.00	41.93	74.00	-32.07	40.59	3.31	33.06	35.03	Peak	100	294	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	4825.88	41.58	74.00	-32.42	40.24	3.31	33.06	35.03	Peak	100	181	VERTICAL
2	4826.90	27.94	54.00	-26.06	26.60	3.31	33.06	35.03	Average	100	181	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4875.02	42.87	74.00	-31.13	41.41	3.33	33.16	35.03	Peak	100	325 HORIZONTAL
2	4875.78	29.48	54.00	-24.52	28.02	3.33	33.16	35.03	Average	100	325 HORIZONTAL
3	7306.20	31.83	54.00	-22.17	27.25	4.06	35.92	35.40	Average	100	197 HORIZONTAL
4	7313.54	45.94	74.00	-28.06	41.32	4.06	35.96	35.40	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	4873.36	43.47	74.00	-30.53	42.01	3.33	33.16	35.03	Peak	100	216 VERTICAL
2	4875.06	29.27	54.00	-24.73	27.81	3.33	33.16	35.03	Average	100	216 VERTICAL
3	7306.00	31.82	54.00	-22.18	27.24	4.06	35.92	35.40	Average	100	237 VERTICAL
4	7309.30	45.12	74.00	-28.88	40.50	4.06	35.96	35.40	Peak	100	237 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4919.18	27.98	54.00	-26.02	26.42	3.35	33.23	35.02	Average	100	250 HORIZONTAL
2	4925.18	41.12	74.00	-32.88	39.52	3.35	33.26	35.01	Peak	100	250 HORIZONTAL
3	7381.64	46.05	74.00	-27.95	41.30	4.06	36.09	35.40	Peak	100	332 HORIZONTAL
4	7383.90	32.16	54.00	-21.84	27.41	4.06	36.09	35.40	Average	100	332 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4920.24	42.30	74.00	-31.70	40.73	3.35	33.23	35.01	Peak	100	194 VERTICAL
2	4925.38	28.14	54.00	-25.86	26.54	3.35	33.26	35.01	Average	100	194 VERTICAL
3	7381.00	32.10	54.00	-21.90	27.35	4.06	36.09	35.40	Average	100	277 VERTICAL
4	7390.26	45.89	74.00	-28.11	41.14	4.06	36.09	35.40	Peak	100	277 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.72	41.63	74.00	-32.37	40.29	3.31	33.06	35.03	Peak	100	46 HORIZONTAL
2	4827.44	28.25	54.00	-25.75	26.91	3.31	33.06	35.03	Average	100	46 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4820.88	29.16	54.00	-24.84	27.82	3.31	33.06	35.03	Average	100	178 VERTICAL
2	4823.38	42.51	74.00	-31.49	41.17	3.31	33.06	35.03	Peak	100	178 VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4871.86	42.73	74.00	-31.27	41.27	3.33	33.16	35.03	Peak	100	183 HORIZONTAL
2	4872.34	29.47	54.00	-24.53	28.01	3.33	33.16	35.03	Average	100	183 HORIZONTAL
3	7308.92	31.81	54.00	-22.19	27.19	4.06	35.96	35.40	Average	100	97 HORIZONTAL
4	7313.22	45.82	74.00	-28.18	41.20	4.06	35.96	35.40	Peak	100	97 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4870.28	43.93	74.00	-30.07	42.51	3.33	33.12	35.03	Peak	100	207 VERTICAL
2	4873.64	30.20	54.00	-23.80	28.74	3.33	33.16	35.03	Average	100	207 VERTICAL
3	7306.10	31.76	54.00	-22.24	27.18	4.06	35.92	35.40	Average	100	142 VERTICAL
4	7311.08	45.47	74.00	-28.53	40.85	4.06	35.96	35.40	Peak	100	142 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor		cm	deg	
1	4925.50	28.37	54.00	-25.63	26.77	3.35	33.26	35.01 Average	100	337	HORIZONTAL
2	4925.66	41.87	74.00	-32.13	40.27	3.35	33.26	35.01 Peak	100	337	HORIZONTAL
3	7386.74	31.93	54.00	-22.07	27.18	4.06	36.09	35.40 Average	100	216	HORIZONTAL
4	7389.78	45.98	74.00	-28.02	41.23	4.06	36.09	35.40 Peak	100	216	HORIZONTAL

Vertical

Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
		Line	Limit	Level	Loss	Factor	Factor		cm	deg	
1	4919.18	28.44	54.00	-25.56	26.88	3.35	33.23	35.02 Average	100	127	VERTICAL
2	4923.60	41.46	74.00	-32.54	39.86	3.35	33.26	35.01 Peak	100	127	VERTICAL
3	7383.52	31.87	54.00	-22.13	27.12	4.06	36.09	35.40 Average	100	240	VERTICAL
4	7384.20	46.05	74.00	-27.95	41.30	4.06	36.09	35.40 Peak	100	240	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Line	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
			Limit	Level	dB	dBuV	dB	dB/m		cm	deg	
1	4842.74	28.10	54.00	-25.90	26.72	3.32	33.09	35.03	Average	100	211	HORIZONTAL
2	4843.46	42.63	74.00	-31.37	41.25	3.32	33.09	35.03	Peak	100	211	HORIZONTAL

Vertical

Freq	Level	Line	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
			Limit	Level	dB	dBuV	dB	dB/m		cm	deg	
1	4841.50	28.11	54.00	-25.89	26.73	3.32	33.09	35.03	Average	100	106	VERTICAL
2	4842.04	41.90	74.00	-32.10	40.52	3.32	33.09	35.03	Peak	100	106	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4875.12	41.75	74.00	-32.25	40.29	3.33	33.16	35.03	Peak	100	197 HORIZONTAL
2	4877.64	28.11	54.00	-25.89	26.65	3.33	33.16	35.03	Average	100	197 HORIZONTAL
3	7306.02	31.40	54.00	-22.60	26.82	4.06	35.92	35.40	Average	100	125 HORIZONTAL
4	7306.38	46.10	74.00	-27.90	41.52	4.06	35.92	35.40	Peak	100	125 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	4876.56	41.79	74.00	-32.21	40.33	3.33	33.16	35.03	Peak	100	289 VERTICAL
2	4877.62	27.95	54.00	-26.05	26.49	3.33	33.16	35.03	Average	100	289 VERTICAL
3	7306.88	45.84	74.00	-28.16	41.26	4.06	35.92	35.40	Peak	100	215 VERTICAL
4	7314.20	31.66	54.00	-22.34	27.04	4.06	35.96	35.40	Average	100	215 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4903.54	28.25	54.00	-25.75	26.74	3.34	33.19	35.02	Average	100	272 HORIZONTAL
2	4904.36	42.34	74.00	-31.66	40.83	3.34	33.19	35.02	Peak	100	272 HORIZONTAL
3	7353.64	46.04	74.00	-27.96	41.36	4.06	36.02	35.40	Peak	100	222 HORIZONTAL
4	7357.86	32.24	54.00	-21.76	27.56	4.06	36.02	35.40	Average	100	222 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	4903.66	42.51	74.00	-31.49	41.00	3.34	33.19	35.02	Peak	100	147 VERTICAL
2	4903.92	28.30	54.00	-25.70	26.79	3.34	33.19	35.02	Average	100	147 VERTICAL
3	7355.46	32.22	54.00	-21.78	27.54	4.06	36.02	35.40	Average	100	88 VERTICAL
4	7356.58	45.50	74.00	-28.50	40.82	4.06	36.02	35.40	Peak	100	88 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4824.20	41.38	74.00	-32.62	40.04	3.31	33.06	35.03	Peak	100	316	HORIZONTAL
2	4825.00	28.05	54.00	-25.95	26.71	3.31	33.06	35.03	Average	100	316	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	4823.02	29.77	54.00	-24.23	28.43	3.31	33.06	35.03	Average	100	230	VERTICAL
2	4823.55	44.59	74.00	-29.41	43.25	3.31	33.06	35.03	Peak	100	230	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4874.03	46.04	74.00	-27.96	44.58	3.33	33.16	35.03	Peak	100	297 HORIZONTAL
2	4874.38	31.37	54.00	-22.63	29.91	3.33	33.16	35.03	Average	100	297 HORIZONTAL
3	7310.03	47.13	74.00	-26.87	42.51	4.06	35.96	35.40	Peak	100	360 HORIZONTAL
4	7310.11	32.65	54.00	-21.35	28.03	4.06	35.96	35.40	Average	100	360 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	4873.52	34.97	54.00	-19.03	33.51	3.33	33.16	35.03	Average	100	110 VERTICAL
2	4873.52	49.55	74.00	-24.45	48.09	3.33	33.16	35.03	Peak	100	110 VERTICAL
3	7310.51	31.84	54.00	-22.16	27.22	4.06	35.96	35.40	Average	100	233 VERTICAL
4	7311.42	45.95	74.00	-28.05	41.33	4.06	35.96	35.40	Peak	100	233 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4923.37	28.26	54.00	-25.74	26.66	3.35	33.26	35.01	Average	100	171	HORIZONTAL
2	4924.01	42.36	74.00	-31.64	40.76	3.35	33.26	35.01	Peak	100	171	HORIZONTAL
3	7385.06	32.09	54.00	-21.91	27.34	4.06	36.09	35.40	Average	100	251	HORIZONTAL
4	7385.60	45.59	74.00	-28.41	40.84	4.06	36.09	35.40	Peak	100	251	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	4923.03	41.73	74.00	-32.27	40.13	3.35	33.26	35.01	Peak	100	300	VERTICAL
2	4924.80	28.21	54.00	-25.79	26.61	3.35	33.26	35.01	Average	100	300	VERTICAL
3	7385.06	32.14	54.00	-21.86	27.39	4.06	36.09	35.40	Average	100	350	VERTICAL
4	7385.74	45.47	74.00	-28.53	40.72	4.06	36.09	35.40	Peak	100	350	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4823.86	41.44	74.00	-32.56	40.10	3.31	33.06	35.03	Peak	100	91 HORIZONTAL
2	4824.88	27.89	54.00	-26.11	26.55	3.31	33.06	35.03	Average	100	91 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	4823.83	42.65	74.00	-31.35	41.31	3.31	33.06	35.03	Peak	100	184 VERTICAL
2	4824.84	28.14	54.00	-25.86	26.80	3.31	33.06	35.03	Average	100	184 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4874.86	42.19	74.00	-31.81	40.73	3.33	33.16	35.03	Peak	100	184 HORIZONTAL
2	4875.00	28.95	54.00	-25.05	27.49	3.33	33.16	35.03	Average	100	184 HORIZONTAL
3	7311.69	46.46	74.00	-27.54	41.84	4.06	35.96	35.40	Peak	100	81 HORIZONTAL
4	7311.98	31.85	54.00	-22.15	27.23	4.06	35.96	35.40	Average	100	81 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4873.08	43.36	74.00	-30.64	41.90	3.33	33.16	35.03	Peak	100	311 VERTICAL
2	4873.98	29.38	54.00	-24.62	27.92	3.33	33.16	35.03	Average	100	311 VERTICAL
3	7310.00	34.28	54.00	-19.72	29.66	4.06	35.96	35.40	Average	100	207 VERTICAL
4	7311.44	48.16	74.00	-25.84	43.54	4.06	35.96	35.40	Peak	100	207 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4923.65	41.82	74.00	-32.18	40.22	3.35	33.26	35.01	Peak	100	268 HORIZONTAL
2	4924.90	28.11	54.00	-25.89	26.51	3.35	33.26	35.01	Average	100	268 HORIZONTAL
3	7385.03	32.08	54.00	-21.92	27.33	4.06	36.09	35.40	Average	100	198 HORIZONTAL
4	7385.05	46.45	74.00	-27.55	41.70	4.06	36.09	35.40	Peak	100	198 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	4923.68	28.05	54.00	-25.95	26.45	3.35	33.26	35.01	Average	100	20 VERTICAL
2	4923.86	43.24	74.00	-30.76	41.64	3.35	33.26	35.01	Peak	100	20 VERTICAL
3	7385.22	32.02	54.00	-21.98	27.27	4.06	36.09	35.40	Average	100	106 VERTICAL
4	7386.59	46.90	74.00	-27.10	42.15	4.06	36.09	35.40	Peak	100	106 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4841.90	27.54	54.00	-26.46	26.16	3.32	33.09	35.03	Average	100	329	HORIZONTAL
2	4842.90	41.28	74.00	-32.72	39.90	3.32	33.09	35.03	Peak	100	329	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	4842.88	41.03	74.00	-32.97	39.65	3.32	33.09	35.03	Peak	100	233	VERTICAL
2	4843.12	27.67	54.00	-26.33	26.29	3.32	33.09	35.03	Average	100	233	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4874.28	40.87	74.00	-33.13	39.41	3.33	33.16	35.03	Peak	100	276 HORIZONTAL
2	4874.96	27.55	54.00	-26.45	26.09	3.33	33.16	35.03	Average	100	276 HORIZONTAL
3	7311.76	31.87	54.00	-22.13	27.25	4.06	35.96	35.40	Average	100	226 HORIZONTAL
4	7315.72	45.42	74.00	-28.58	40.80	4.06	35.96	35.40	Peak	100	226 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	4872.58	40.95	74.00	-33.05	39.49	3.33	33.16	35.03	Peak	100	47 VERTICAL
2	4878.10	27.52	54.00	-26.48	26.06	3.33	33.16	35.03	Average	100	47 VERTICAL
3	7306.06	31.71	54.00	-22.29	27.13	4.06	35.92	35.40	Average	100	127 VERTICAL
4	7308.90	45.29	74.00	-28.71	40.67	4.06	35.96	35.40	Peak	100	127 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4902.96	41.48	74.00	-32.52	39.97	3.34	33.19	35.02	Peak	100	185 HORIZONTAL
2	4903.94	27.97	54.00	-26.03	26.46	3.34	33.19	35.02	Average	100	185 HORIZONTAL
3	7355.64	46.76	74.00	-27.24	42.08	4.06	36.02	35.40	Peak	100	275 HORIZONTAL
4	7359.00	32.72	54.00	-21.28	28.00	4.06	36.06	35.40	Average	100	275 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	4904.18	27.99	54.00	-26.01	26.48	3.34	33.19	35.02	Average	100	89 VERTICAL
2	4905.04	41.36	74.00	-32.64	39.81	3.34	33.23	35.02	Peak	100	89 VERTICAL
3	7355.80	32.72	54.00	-21.28	28.04	4.06	36.02	35.40	Average	100	207 VERTICAL
4	7358.72	46.83	74.00	-27.17	42.11	4.06	36.06	35.40	Peak	100	207 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4841.62	28.14	54.00	-25.86	26.76	3.32	33.09	35.03	Average	100	195	HORIZONTAL
2	4848.38	42.55	74.00	-31.45	41.17	3.32	33.09	35.03	Peak	100	195	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	4839.36	41.77	74.00	-32.23	40.39	3.32	33.09	35.03	Peak	100	285	VERTICAL
2	4842.30	28.22	54.00	-25.78	26.84	3.32	33.09	35.03	Average	100	285	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line 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	4875.94	41.13	74.00	-32.87	39.67	3.33	33.16	35.03	Peak	100	52	HORIZONTAL
2	4877.60	27.98	54.00	-26.02	26.52	3.33	33.16	35.03	Average	100	52	HORIZONTAL
3	7307.64	44.84	74.00	-29.16	40.22	4.06	35.96	35.40	Peak	100	116	HORIZONTAL
4	7311.54	31.44	54.00	-22.56	26.82	4.06	35.96	35.40	Average	100	116	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4869.70	41.43	74.00	-32.57	40.01	3.33	33.12	35.03	Peak	100	305	VERTICAL
2	4877.80	28.01	54.00	-25.99	26.55	3.33	33.16	35.03	Average	100	305	VERTICAL
3	7306.16	31.40	54.00	-22.60	26.82	4.06	35.92	35.40	Average	100	239	VERTICAL
4	7309.74	45.50	74.00	-28.50	40.88	4.06	35.96	35.40	Peak	100	239	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line 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	4902.64	28.29	54.00	-25.71	26.78	3.34	33.19	35.02	Average	100	278	HORIZONTAL
2	4906.34	42.03	74.00	-31.97	40.48	3.34	33.23	35.02	Peak	100	278	HORIZONTAL
3	7355.48	32.28	54.00	-21.72	27.60	4.06	36.02	35.40	Average	100	221	HORIZONTAL
4	7356.92	45.98	74.00	-28.02	41.30	4.06	36.02	35.40	Peak	100	221	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4902.54	28.37	54.00	-25.63	26.86	3.34	33.19	35.02	Average	100	188	VERTICAL
2	4907.58	42.12	74.00	-31.88	40.57	3.34	33.23	35.02	Peak	100	188	VERTICAL
3	7354.20	46.02	74.00	-27.98	41.34	4.06	36.02	35.40	Peak	100	117	VERTICAL
4	7356.02	32.28	54.00	-21.72	27.60	4.06	36.02	35.40	Average	100	117	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4842.74	28.10	54.00	-25.90	26.72	3.32	33.09	35.03	Average	100	211	HORIZONTAL
2	4843.46	42.63	74.00	-31.37	41.25	3.32	33.09	35.03	Peak	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			
1	4841.50	28.11	54.00	-25.89	26.73	3.32	33.09	35.03	Average	100	106	VERTICAL
2	4842.04	41.90	74.00	-32.10	40.52	3.32	33.09	35.03	Peak	100	106	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4875.12	41.75	74.00	-32.25	40.29	3.33	33.16	35.03	Peak	100	197 HORIZONTAL
2	4877.64	28.11	54.00	-25.89	26.65	3.33	33.16	35.03	Average	100	197 HORIZONTAL
3	7306.02	31.40	54.00	-22.60	26.82	4.06	35.92	35.40	Average	100	125 HORIZONTAL
4	7306.38	46.10	74.00	-27.90	41.52	4.06	35.92	35.40	Peak	100	125 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	4876.56	41.79	74.00	-32.21	40.33	3.33	33.16	35.03	Peak	100	289 VERTICAL
2	4877.62	27.95	54.00	-26.05	26.49	3.33	33.16	35.03	Average	100	289 VERTICAL
3	7306.88	45.84	74.00	-28.16	41.26	4.06	35.92	35.40	Peak	100	215 VERTICAL
4	7314.20	31.66	54.00	-22.34	27.04	4.06	35.96	35.40	Average	100	215 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line 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	4903.54	28.25	54.00	-25.75	26.74	3.34	33.19	35.02	Average	100	272	HORIZONTAL
2	4904.36	42.34	74.00	-31.66	40.83	3.34	33.19	35.02	Peak	100	272	HORIZONTAL
3	7353.64	46.04	74.00	-27.96	41.36	4.06	36.02	35.40	Peak	100	222	HORIZONTAL
4	7357.86	32.24	54.00	-21.76	27.56	4.06	36.02	35.40	Average	100	222	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4903.66	42.51	74.00	-31.49	41.00	3.34	33.19	35.02	Peak	100	147	VERTICAL
2	4903.92	28.30	54.00	-25.70	26.79	3.34	33.19	35.02	Average	100	147	VERTICAL
3	7355.46	32.22	54.00	-21.78	27.54	4.06	36.02	35.40	Average	100	88	VERTICAL
4	7356.58	45.50	74.00	-28.50	40.82	4.06	36.02	35.40	Peak	100	88	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4843.15	41.28	74.00	-32.72	39.90	3.32	33.09	35.03	Peak	100	24 HORIZONTAL
2	4843.76	28.03	54.00	-25.97	26.65	3.32	33.09	35.03	Average	100	24 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	4843.06	28.06	54.00	-25.94	26.68	3.32	33.09	35.03	Average	100	144 VERTICAL
2	4843.72	42.55	74.00	-31.45	41.17	3.32	33.09	35.03	Peak	100	144 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4874.36	41.94	74.00	-32.06	40.48	3.33	33.16	35.03	Peak	100	252	HORIZONTAL
2	4874.94	27.77	54.00	-26.23	26.31	3.33	33.16	35.03	Average	100	252	HORIZONTAL
3	7310.17	45.32	74.00	-28.68	40.70	4.06	35.96	35.40	Peak	100	323	HORIZONTAL
4	7311.00	31.60	54.00	-22.40	26.98	4.06	35.96	35.40	Average	100	323	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4873.00	28.51	54.00	-25.49	27.05	3.33	33.16	35.03	Average	100	155	VERTICAL
2	4873.12	42.47	74.00	-31.53	41.01	3.33	33.16	35.03	Peak	100	155	VERTICAL
3	7310.47	45.12	74.00	-28.88	40.50	4.06	35.96	35.40	Peak	100	238	VERTICAL
4	7312.00	31.57	54.00	-22.43	26.95	4.06	35.96	35.40	Average	100	238	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4904.28	28.18	54.00	-25.82	26.67	3.34	33.19	35.02	Average	100	180	HORIZONTAL
2	4904.95	42.12	74.00	-31.88	40.57	3.34	33.23	35.02	Peak	100	180	HORIZONTAL
3	7356.79	32.52	54.00	-21.48	27.84	4.06	36.02	35.40	Average	100	77	HORIZONTAL
4	7356.80	47.43	74.00	-26.57	42.75	4.06	36.02	35.40	Peak	100	77	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	4903.14	42.20	74.00	-31.80	40.69	3.34	33.19	35.02	Peak	100	264	VERTICAL
2	4903.89	28.04	54.00	-25.96	26.53	3.34	33.19	35.02	Average	100	264	VERTICAL
3	7355.58	46.96	74.00	-27.04	42.28	4.06	36.02	35.40	Peak	100	178	VERTICAL
4	7356.52	32.52	54.00	-21.48	27.84	4.06	36.02	35.40	Average	100	178	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4844.34	27.94	54.00	-26.06	26.56	3.32	33.09	35.03	Average	100	200	HORIZONTAL
2	4844.64	42.15	74.00	-31.85	40.77	3.32	33.09	35.03	Peak	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			
1	4843.44	27.96	54.00	-26.04	26.58	3.32	33.09	35.03	Average	100	319	VERTICAL
2	4843.53	41.52	74.00	-32.48	40.14	3.32	33.09	35.03	Peak	100	319	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4873.25	41.43	74.00	-32.57	39.97	3.33	33.16	35.03	Peak	100	251 HORIZONTAL
2	4874.70	27.71	54.00	-26.29	26.25	3.33	33.16	35.03	Average	100	251 HORIZONTAL
3	7311.22	31.60	54.00	-22.40	26.98	4.06	35.96	35.40	Average	100	167 HORIZONTAL
4	7311.79	45.75	74.00	-28.25	41.13	4.06	35.96	35.40	Peak	100	167 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	4873.97	42.04	74.00	-31.96	40.58	3.33	33.16	35.03	Peak	100	155 VERTICAL
2	4874.82	28.08	54.00	-25.92	26.62	3.33	33.16	35.03	Average	100	155 VERTICAL
3	7310.41	45.53	74.00	-28.47	40.91	4.06	35.96	35.40	Peak	100	80 VERTICAL
4	7311.76	31.53	54.00	-22.47	26.91	4.06	35.96	35.40	Average	100	80 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line 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	4903.10	41.89	74.00	-32.11	40.38	3.34	33.19	35.02	Peak	100	200	HORIZONTAL
2	4903.74	27.98	54.00	-26.02	26.47	3.34	33.19	35.02	Average	100	200	HORIZONTAL
3	7355.55	46.67	74.00	-27.33	41.99	4.06	36.02	35.40	Peak	100	285	HORIZONTAL
4	7356.94	32.46	54.00	-21.54	27.78	4.06	36.02	35.40	Average	100	285	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4904.06	28.08	54.00	-25.92	26.57	3.34	33.19	35.02	Average	100	122	VERTICAL
2	4904.78	42.03	74.00	-31.97	40.48	3.34	33.23	35.02	Peak	100	122	VERTICAL
3	7356.28	46.44	74.00	-27.56	41.76	4.06	36.02	35.40	Peak	100	195	VERTICAL
4	7356.30	32.52	54.00	-21.48	27.84	4.06	36.02	35.40	Average	100	195	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

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	4823.97	36.70	54.00	-17.30	35.36	3.31	33.06	35.03	Average	100	228 HORIZONTAL
2	4824.01	45.02	74.00	-28.98	43.68	3.31	33.06	35.03	Peak	100	228 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	4823.91	48.38	74.00	-25.62	47.04	3.31	33.06	35.03	Peak	126	140 VERTICAL
2	4823.98	43.01	54.00	-10.99	41.67	3.31	33.06	35.03	Average	126	140 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4873.97	45.39	54.00	-8.61	43.93	3.33	33.16	35.03	Average	100	196	HORIZONTAL
2	4874.01	49.38	74.00	-24.62	47.92	3.33	33.16	35.03	Peak	100	196	HORIZONTAL
3	7310.00	54.01	74.00	-19.99	49.39	4.06	35.96	35.40	Peak	146	17	HORIZONTAL
4	7310.24	47.59	54.00	-6.41	42.97	4.06	35.96	35.40	Average	146	17	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				
1	4873.97	45.84	54.00	-8.16	44.38	3.33	33.16	35.03	Average	101	32	VERTICAL
2	4874.01	49.93	74.00	-24.07	48.47	3.33	33.16	35.03	Peak	101	32	VERTICAL
3	7309.22	41.67	54.00	-12.33	37.05	4.06	35.96	35.40	Average	140	345	VERTICAL
4	7313.86	50.20	74.00	-23.80	45.58	4.06	35.96	35.40	Peak	140	345	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dBuV/m			dB	dBuV	dB			
1	4923.94	46.80	74.00	-27.20	45.20	3.35	33.26	35.01	Peak	166	344 HORIZONTAL
2	4923.99	39.59	54.00	-14.41	37.99	3.35	33.26	35.01	Average	166	344 HORIZONTAL
3	7383.00	46.52	74.00	-27.48	41.77	4.06	36.09	35.40	Peak	100	140 HORIZONTAL
4	7383.78	32.30	54.00	-21.70	27.55	4.06	36.09	35.40	Average	100	140 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dBuV/m			dB	dBuV	dB			
1	4923.90	45.44	74.00	-28.56	43.84	3.35	33.26	35.01	Peak	101	165 VERTICAL
2	4923.97	37.07	54.00	-16.93	35.47	3.35	33.26	35.01	Average	101	165 VERTICAL
3	7388.82	32.53	54.00	-21.47	27.78	4.06	36.09	35.40	Average	100	334 VERTICAL
4	7389.26	46.49	74.00	-27.51	41.74	4.06	36.09	35.40	Peak	100	334 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4823.81	44.78	74.00	-29.22	43.44	3.31	33.06	35.03	Peak	100	187 HORIZONTAL
2	4823.97	37.06	54.00	-16.94	35.72	3.31	33.06	35.03	Average	100	187 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	4823.99	42.37	54.00	-11.63	41.03	3.31	33.06	35.03	Average	113	250 VERTICAL
2	4824.11	47.48	74.00	-26.52	46.14	3.31	33.06	35.03	Peak	113	250 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

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	4873.96	53.55	54.00	-0.45	52.09	3.33	33.16	35.03	Average	158	314 HORIZONTAL
2	4874.04	55.33	74.00	-18.67	53.87	3.33	33.16	35.03	Peak	158	314 HORIZONTAL
3	7311.70	44.84	54.00	-9.16	40.22	4.06	35.96	35.40	Average	148	21 HORIZONTAL
4	7312.94	51.74	74.00	-22.26	47.12	4.06	35.96	35.40	Peak	148	21 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	4873.97	48.57	54.00	-5.43	47.11	3.33	33.16	35.03	Average	100	140 VERTICAL
2	4874.00	51.57	74.00	-22.43	50.11	3.33	33.16	35.03	Peak	100	140 VERTICAL
3	7312.74	45.45	54.00	-8.55	40.83	4.06	35.96	35.40	Average	183	205 VERTICAL
4	7313.56	52.33	74.00	-21.67	47.71	4.06	35.96	35.40	Peak	183	205 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.96	39.58	54.00	-14.42	37.98	3.35	33.26	35.01	Average	179	316 HORIZONTAL
2	4924.02	45.86	74.00	-28.14	44.26	3.35	33.26	35.01	Peak	179	316 HORIZONTAL
3	7386.74	31.93	54.00	-22.07	27.18	4.06	36.09	35.40	Average	100	71 HORIZONTAL
4	7387.10	45.77	74.00	-28.23	41.02	4.06	36.09	35.40	Peak	100	71 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.86	46.04	74.00	-27.96	44.44	3.35	33.26	35.01	Peak	100	250 VERTICAL
2	4923.94	39.66	54.00	-14.34	38.06	3.35	33.26	35.01	Average	100	250 VERTICAL
3	7386.68	32.13	54.00	-21.87	27.38	4.06	36.09	35.40	Average	100	152 VERTICAL
4	7388.56	46.53	74.00	-27.47	41.78	4.06	36.09	35.40	Peak	100	152 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4823.97	42.78	54.00	-11.22	41.44	3.31	33.06	35.03	Average	100	159	HORIZONTAL
2	4823.98	47.48	74.00	-26.52	46.14	3.31	33.06	35.03	Peak	100	159	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				
1	4823.96	47.56	54.00	-6.44	46.22	3.31	33.06	35.03	Average	100	228	VERTICAL
2	4824.01	50.86	74.00	-23.14	49.52	3.31	33.06	35.03	Peak	100	228	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4873.97	52.46	74.00	-21.54	51.00	3.33	33.16	35.03	Peak	126	158	HORIZONTAL
2	4873.97	49.87	54.00	-4.13	48.41	3.33	33.16	35.03	Average	126	158	HORIZONTAL
3	7310.08	48.65	74.00	-25.35	44.03	4.06	35.96	35.40	Peak	144	16	HORIZONTAL
4	7310.24	39.58	54.00	-14.42	34.96	4.06	35.96	35.40	Average	144	16	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	4873.98	53.57	54.00	-0.43	52.11	3.33	33.16	35.03	Average	136	227	VERTICAL
2	4874.00	55.28	74.00	-18.72	53.82	3.33	33.16	35.03	Peak	136	227	VERTICAL
3	7311.24	48.81	74.00	-25.19	44.19	4.06	35.96	35.40	Peak	101	163	VERTICAL
4	7311.68	38.98	54.00	-15.02	34.36	4.06	35.96	35.40	Average	101	163	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi) (3TX)

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	4923.97	39.65	54.00	-14.35	38.05	3.35	33.26	35.01	Average	161	229	HORIZONTAL
2	4924.05	46.20	74.00	-27.80	44.60	3.35	33.26	35.01	Peak	161	229	HORIZONTAL
3	7376.00	32.28	54.00	-21.72	27.53	4.06	36.09	35.40	Average	100	218	HORIZONTAL
4	7380.24	45.32	74.00	-28.68	40.57	4.06	36.09	35.40	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			
1	4923.96	41.79	54.00	-12.21	40.19	3.35	33.26	35.01	Average	112	109	VERTICAL
2	4923.98	47.35	74.00	-26.65	45.75	3.35	33.26	35.01	Peak	112	109	VERTICAL
3	7385.12	34.42	54.00	-19.58	29.67	4.06	36.09	35.40	Average	100	194	VERTICAL
4	7387.68	47.06	74.00	-26.94	42.31	4.06	36.09	35.40	Peak	100	194	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°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

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	4824.54	42.46	74.00	-31.54	41.12	3.31	33.06	35.03	Peak	100	259 HORIZONTAL
2	4825.24	27.92	54.00	-26.08	26.58	3.31	33.06	35.03	Average	100	259 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	4823.84	41.51	74.00	-32.49	40.17	3.31	33.06	35.03	Peak	100	135 VERTICAL
2	4825.62	27.99	54.00	-26.01	26.65	3.31	33.06	35.03	Average	100	135 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

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	4874.33	42.57	74.00	-31.43	41.11	3.33	33.16	35.03	Peak	100	43 HORIZONTAL
2	4876.01	28.66	54.00	-25.34	27.20	3.33	33.16	35.03	Average	100	43 HORIZONTAL
3	7310.90	49.11	74.00	-24.89	44.49	4.06	35.96	35.40	Peak	100	260 HORIZONTAL
4	7312.94	31.36	54.00	-22.64	26.74	4.06	35.96	35.40	Average	100	260 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	4876.30	42.27	74.00	-31.73	40.81	3.33	33.16	35.03	Peak	100	166 VERTICAL
2	4876.50	27.89	54.00	-26.11	26.43	3.33	33.16	35.03	Average	100	166 VERTICAL
3	7312.36	52.91	74.00	-21.09	48.29	4.06	35.96	35.40	Peak	100	328 VERTICAL
4	7313.11	32.05	54.00	-21.95	27.43	4.06	35.96	35.40	Average	100	328 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	dB/m			
1	4926.07	27.63	54.00	-26.37	26.03	3.35	33.26	35.01	Average	100	193 HORIZONTAL
2	4926.09	42.35	74.00	-31.65	40.75	3.35	33.26	35.01	Peak	100	193 HORIZONTAL
3	7387.21	46.14	74.00	-27.86	41.39	4.06	36.09	35.40	Peak	100	312 HORIZONTAL
4	7387.28	31.82	54.00	-22.18	27.07	4.06	36.09	35.40	Average	100	312 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dBuV/m			Loss	Factor	dB/m			
1	4923.20	41.60	74.00	-32.40	40.00	3.35	33.26	35.01	Peak	100	170 VERTICAL
2	4925.44	28.77	54.00	-25.23	27.17	3.35	33.26	35.01	Average	100	170 VERTICAL
3	7382.64	45.78	74.00	-28.22	41.03	4.06	36.09	35.40	Peak	100	261 VERTICAL
4	7390.92	31.97	54.00	-22.03	27.22	4.06	36.09	35.40	Average	100	261 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4824.42	41.69	74.00	-32.31	40.35	3.31	33.06	35.03	Peak	100	189	HORIZONTAL
2	4826.48	27.88	54.00	-26.12	26.54	3.31	33.06	35.03	Average	100	189	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	4824.17	41.82	74.00	-32.18	40.48	3.31	33.06	35.03	Peak	100	56	VERTICAL
2	4825.41	27.85	54.00	-26.15	26.51	3.31	33.06	35.03	Average	100	56	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line 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	4873.99	42.11	74.00	-31.89	40.65	3.33	33.16	35.03	Peak	100	139	HORIZONTAL
2	4876.15	27.80	54.00	-26.20	26.34	3.33	33.16	35.03	Average	100	139	HORIZONTAL
3	7309.68	45.36	74.00	-28.64	40.74	4.06	35.96	35.40	Peak	100	271	HORIZONTAL
4	7312.66	31.13	54.00	-22.87	26.51	4.06	35.96	35.40	Average	100	271	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4871.90	41.99	74.00	-32.01	40.53	3.33	33.16	35.03	Peak	100	178	VERTICAL
2	4876.37	27.85	54.00	-26.15	26.39	3.33	33.16	35.03	Average	100	178	VERTICAL
3	7311.29	45.08	74.00	-28.92	40.46	4.06	35.96	35.40	Peak	100	286	VERTICAL
4	7313.16	31.05	54.00	-22.95	26.43	4.06	35.96	35.40	Average	100	286	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4923.19	27.53	54.00	-26.47	25.93	3.35	33.26	35.01	Average	100	193 HORIZONTAL
2	4923.80	41.52	74.00	-32.48	39.92	3.35	33.26	35.01	Peak	100	193 HORIZONTAL
3	7385.31	45.82	74.00	-28.18	41.07	4.06	36.09	35.40	Peak	100	96 HORIZONTAL
4	7388.09	31.85	54.00	-22.15	27.10	4.06	36.09	35.40	Average	100	96 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4925.25	27.54	54.00	-26.46	25.94	3.35	33.26	35.01	Average	100	245 VERTICAL
2	4925.28	42.38	74.00	-31.62	40.78	3.35	33.26	35.01	Peak	100	245 VERTICAL
3	7385.85	46.13	74.00	-27.87	41.38	4.06	36.09	35.40	Peak	100	135 VERTICAL
4	7388.14	31.87	54.00	-22.13	27.12	4.06	36.09	35.40	Average	100	135 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4824.37	41.80	74.00	-32.20	40.46	3.31	33.06	35.03	Peak	100	191 HORIZONTAL
2	4825.50	27.85	54.00	-26.15	26.51	3.31	33.06	35.03	Average	100	191 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	4822.45	42.10	74.00	-31.90	40.76	3.31	33.06	35.03	Peak	100	316 VERTICAL
2	4826.16	28.17	54.00	-25.83	26.83	3.31	33.06	35.03	Average	100	316 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4875.72	41.65	74.00	-32.35	40.19	3.33	33.16	35.03	Peak	100	100	HORIZONTAL
2	4876.01	27.84	54.00	-26.16	26.38	3.33	33.16	35.03	Average	100	100	HORIZONTAL
3	7308.60	45.31	74.00	-28.69	40.69	4.06	35.96	35.40	Peak	100	202	HORIZONTAL
4	7313.09	30.97	54.00	-23.03	26.35	4.06	35.96	35.40	Average	100	202	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	4875.63	27.82	54.00	-26.18	26.36	3.33	33.16	35.03	Average	100	152	VERTICAL
2	4876.05	42.43	74.00	-31.57	40.97	3.33	33.16	35.03	Peak	100	152	VERTICAL
3	7309.57	45.17	74.00	-28.83	40.55	4.06	35.96	35.40	Peak	100	240	VERTICAL
4	7313.16	31.05	54.00	-22.95	26.43	4.06	35.96	35.40	Average	100	240	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4922.64	41.34	74.00	-32.66	39.74	3.35	33.26	35.01	Peak	100	89 HORIZONTAL
2	4925.31	27.58	54.00	-26.42	25.98	3.35	33.26	35.01	Average	100	89 HORIZONTAL
3	7384.55	46.31	74.00	-27.69	41.56	4.06	36.09	35.40	Peak	100	120 HORIZONTAL
4	7387.35	31.84	54.00	-22.16	27.09	4.06	36.09	35.40	Average	100	120 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	4925.27	42.46	74.00	-31.54	40.86	3.35	33.26	35.01	Peak	100	149 VERTICAL
2	4925.93	27.54	54.00	-26.46	25.94	3.35	33.26	35.01	Average	100	149 VERTICAL
3	7385.33	31.82	54.00	-22.18	27.07	4.06	36.09	35.40	Average	100	236 VERTICAL
4	7387.85	45.85	74.00	-28.15	41.10	4.06	36.09	35.40	Peak	100	236 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4823.97	40.84	74.00	-33.16	39.50	3.31	33.06	35.03	Peak	100	234 HORIZONTAL
2	4824.02	26.74	54.00	-27.26	25.40	3.31	33.06	35.03	Average	100	234 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	4822.95	41.79	74.00	-32.21	40.45	3.31	33.06	35.03	Peak	100	294 VERTICAL
2	4825.74	26.92	54.00	-27.08	25.58	3.31	33.06	35.03	Average	100	294 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4873.33	40.09	74.00	-33.91	38.63	3.33	33.16	35.03	Peak	100	53 HORIZONTAL
2	4876.41	26.66	54.00	-27.34	25.20	3.33	33.16	35.03	Average	100	53 HORIZONTAL
3	7308.94	45.73	74.00	-28.27	41.11	4.06	35.96	35.40	Peak	100	144 HORIZONTAL
4	7312.56	31.82	54.00	-22.18	27.20	4.06	35.96	35.40	Average	100	144 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	4876.37	40.99	74.00	-33.01	39.53	3.33	33.16	35.03	Peak	100	301 VERTICAL
2	4876.41	26.70	54.00	-27.30	25.24	3.33	33.16	35.03	Average	100	301 VERTICAL
3	7310.30	45.88	74.00	-28.12	41.26	4.06	35.96	35.40	Peak	100	248 VERTICAL
4	7312.55	31.83	54.00	-22.17	27.21	4.06	35.96	35.40	Average	100	248 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line 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	4924.14	40.81	74.00	-33.19	39.21	3.35	33.26	35.01	Peak	100	171	HORIZONTAL
2	4925.45	26.39	54.00	-27.61	24.79	3.35	33.26	35.01	Average	100	171	HORIZONTAL
3	7386.34	46.61	74.00	-27.39	41.86	4.06	36.09	35.40	Peak	100	75	HORIZONTAL
4	7386.81	32.07	54.00	-21.93	27.32	4.06	36.09	35.40	Average	100	75	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4921.78	26.45	54.00	-27.55	24.88	3.35	33.23	35.01	Average	100	151	VERTICAL
2	4922.28	40.43	74.00	-33.57	38.83	3.35	33.26	35.01	Peak	100	151	VERTICAL
3	7386.72	46.24	74.00	-27.76	41.49	4.06	36.09	35.40	Peak	100	129	VERTICAL
4	7386.98	32.06	54.00	-21.94	27.31	4.06	36.09	35.40	Average	100	129	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4823.94	40.70	74.00	-33.30	39.36	3.31	33.06	35.03	Peak	100	60 HORIZONTAL
2	4825.33	26.84	54.00	-27.16	25.50	3.31	33.06	35.03	Average	100	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		
1	4824.74	40.56	74.00	-33.44	39.22	3.31	33.06	35.03	Peak	100	177 VERTICAL
2	4825.59	26.85	54.00	-27.15	25.51	3.31	33.06	35.03	Average	100	177 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4874.78	41.89	74.00	-32.11	40.43	3.33	33.16	35.03	Peak	100	201 HORIZONTAL
2	4875.87	26.58	54.00	-27.42	25.12	3.33	33.16	35.03	Average	100	201 HORIZONTAL
3	7309.69	31.81	54.00	-22.19	27.19	4.06	35.96	35.40	Average	100	81 HORIZONTAL
4	7312.17	45.68	74.00	-28.32	41.06	4.06	35.96	35.40	Peak	100	81 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	4874.43	40.94	74.00	-33.06	39.48	3.33	33.16	35.03	Peak	100	261 VERTICAL
2	4876.28	26.59	54.00	-27.41	25.13	3.33	33.16	35.03	Average	100	261 VERTICAL
3	7311.46	46.19	74.00	-27.81	41.57	4.06	35.96	35.40	Peak	100	108 VERTICAL
4	7312.25	31.86	54.00	-22.14	27.24	4.06	35.96	35.40	Average	100	108 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4924.07	26.36	54.00	-27.64	24.76	3.35	33.26	35.01	Average	100	88 HORIZONTAL
2	4925.04	39.95	74.00	-34.05	38.35	3.35	33.26	35.01	Peak	100	88 HORIZONTAL
3	7385.45	46.24	74.00	-27.76	41.49	4.06	36.09	35.40	Peak	100	206 HORIZONTAL
4	7388.09	32.47	54.00	-21.53	27.72	4.06	36.09	35.40	Average	100	206 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	4924.88	26.39	54.00	-27.61	24.79	3.35	33.26	35.01	Average	100	184 VERTICAL
2	4925.08	40.98	74.00	-33.02	39.38	3.35	33.26	35.01	Peak	100	184 VERTICAL
3	7384.66	46.15	74.00	-27.85	41.40	4.06	36.09	35.40	Peak	100	305 VERTICAL
4	7388.08	32.10	54.00	-21.90	27.35	4.06	36.09	35.40	Average	100	305 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4841.79	42.05	74.00	-31.95	40.67	3.32	33.09	35.03	Peak	100	193 HORIZONTAL
2	4845.38	27.96	54.00	-26.04	26.58	3.32	33.09	35.03	Average	100	193 HORIZONTAL
3	7263.74	45.41	74.00	-28.59	40.90	4.06	35.85	35.40	Peak	100	102 HORIZONTAL
4	7267.44	31.16	54.00	-22.84	26.65	4.06	35.85	35.40	Average	100	102 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dBuV/m	dBuV/m			dB	dBuV	dB			
1	4843.88	27.77	54.00	-26.23	26.39	3.32	33.09	35.03	Average	100	117 VERTICAL
2	4844.55	42.10	74.00	-31.90	40.72	3.32	33.09	35.03	Peak	100	117 VERTICAL
3	7264.02	45.00	74.00	-29.00	40.49	4.06	35.85	35.40	Peak	100	196 VERTICAL
4	7267.97	31.12	54.00	-22.88	26.61	4.06	35.85	35.40	Average	100	196 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4875.65	27.87	54.00	-26.13	26.41	3.33	33.16	35.03	Average	100	83 HORIZONTAL
2	4876.47	41.80	74.00	-32.20	40.34	3.33	33.16	35.03	Peak	100	83 HORIZONTAL
3	7310.47	44.95	74.00	-29.05	40.33	4.06	35.96	35.40	Peak	100	81 HORIZONTAL
4	7313.13	30.96	54.00	-23.04	26.34	4.06	35.96	35.40	Average	100	81 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	4872.61	42.52	74.00	-31.48	41.06	3.33	33.16	35.03	Peak	100	155 VERTICAL
2	4876.22	27.83	54.00	-26.17	26.37	3.33	33.16	35.03	Average	100	155 VERTICAL
3	7311.86	44.82	74.00	-29.18	40.20	4.06	35.96	35.40	Peak	100	58 VERTICAL
4	7313.16	30.98	54.00	-23.02	26.36	4.06	35.96	35.40	Average	100	58 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4901.74	41.59	74.00	-32.41	40.08	3.34	33.19	35.02	Peak	100	174 HORIZONTAL
2	4902.41	28.09	54.00	-25.91	26.58	3.34	33.19	35.02	Average	100	174 HORIZONTAL
3	7354.50	45.66	74.00	-28.34	40.98	4.06	36.02	35.40	Peak	100	96 HORIZONTAL
4	7356.58	31.79	54.00	-22.21	27.11	4.06	36.02	35.40	Average	100	96 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	4901.54	28.12	54.00	-25.88	26.61	3.34	33.19	35.02	Average	100	289 VERTICAL
2	4905.42	42.68	74.00	-31.32	41.13	3.34	33.23	35.02	Peak	100	289 VERTICAL
3	7355.01	46.32	74.00	-27.68	41.64	4.06	36.02	35.40	Peak	100	209 VERTICAL
4	7357.53	31.80	54.00	-22.20	27.12	4.06	36.02	35.40	Average	100	209 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4842.10	27.69	54.00	-26.31	26.31	3.32	33.09	35.03	Average	100	140 HORIZONTAL
2	4843.23	41.29	74.00	-32.71	39.91	3.32	33.09	35.03	Peak	100	140 HORIZONTAL
3	7264.94	31.15	54.00	-22.85	26.64	4.06	35.85	35.40	Average	100	18 HORIZONTAL
4	7267.94	45.87	74.00	-28.13	41.36	4.06	35.85	35.40	Peak	100	18 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	4842.28	27.63	54.00	-26.37	26.25	3.32	33.09	35.03	Average	100	231 VERTICAL
2	4844.64	41.41	74.00	-32.59	40.03	3.32	33.09	35.03	Peak	100	231 VERTICAL
3	7265.61	45.30	74.00	-28.70	40.79	4.06	35.85	35.40	Peak	100	143 VERTICAL
4	7267.41	31.13	54.00	-22.87	26.62	4.06	35.85	35.40	Average	100	143 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4874.39	41.98	74.00	-32.02	40.52	3.33	33.16	35.03	Peak	100	121	HORIZONTAL
2	4876.17	27.74	54.00	-26.26	26.28	3.33	33.16	35.03	Average	100	121	HORIZONTAL
3	7310.20	44.75	74.00	-29.25	40.13	4.06	35.96	35.40	Peak	100	205	HORIZONTAL
4	7313.16	30.95	54.00	-23.05	26.33	4.06	35.96	35.40	Average	100	205	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	4873.75	41.88	74.00	-32.12	40.42	3.33	33.16	35.03	Peak	100	204	VERTICAL
2	4876.50	27.81	54.00	-26.19	26.35	3.33	33.16	35.03	Average	100	204	VERTICAL
3	7310.97	44.68	74.00	-29.32	40.06	4.06	35.96	35.40	Peak	100	330	VERTICAL
4	7312.69	30.99	54.00	-23.01	26.37	4.06	35.96	35.40	Average	100	330	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4901.53	28.01	54.00	-25.99	26.50	3.34	33.19	35.02	Average	100	247 HORIZONTAL
2	4904.52	42.57	74.00	-31.43	41.06	3.34	33.19	35.02	Peak	100	247 HORIZONTAL
3	7354.75	46.29	74.00	-27.71	41.61	4.06	36.02	35.40	Peak	100	76 HORIZONTAL
4	7356.34	31.75	54.00	-22.25	27.07	4.06	36.02	35.40	Average	100	76 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	4901.96	28.06	54.00	-25.94	26.55	3.34	33.19	35.02	Average	100	72 VERTICAL
2	4903.12	41.90	74.00	-32.10	40.39	3.34	33.19	35.02	Peak	100	72 VERTICAL
3	7357.03	31.72	54.00	-22.28	27.04	4.06	36.02	35.40	Average	100	188 VERTICAL
4	7357.29	45.23	74.00	-28.77	40.55	4.06	36.02	35.40	Peak	100	188 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4841.59	27.63	54.00	-26.37	26.25	3.32	33.09	35.03	Average	100	153 HORIZONTAL
2	4844.91	41.62	74.00	-32.38	40.24	3.32	33.09	35.03	Peak	100	153 HORIZONTAL
3	7264.73	31.11	54.00	-22.89	26.60	4.06	35.85	35.40	Average	100	244 HORIZONTAL
4	7264.83	44.87	74.00	-29.13	40.36	4.06	35.85	35.40	Peak	100	244 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4841.79	27.64	54.00	-26.36	26.26	3.32	33.09	35.03	Average	100	219 VERTICAL
2	4843.24	41.80	74.00	-32.20	40.42	3.32	33.09	35.03	Peak	100	219 VERTICAL
3	7264.82	31.14	54.00	-22.86	26.63	4.06	35.85	35.40	Average	100	347 VERTICAL
4	7265.38	45.78	74.00	-28.22	41.27	4.06	35.85	35.40	Peak	100	347 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4872.96	41.56	74.00	-32.44	40.10	3.33	33.16	35.03	Peak	100	113 HORIZONTAL
2	4876.50	27.79	54.00	-26.21	26.33	3.33	33.16	35.03	Average	100	113 HORIZONTAL
3	7311.42	44.92	74.00	-29.08	40.30	4.06	35.96	35.40	Peak	100	67 HORIZONTAL
4	7312.96	30.97	54.00	-23.03	26.35	4.06	35.96	35.40	Average	100	67 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	4875.66	27.77	54.00	-26.23	26.31	3.33	33.16	35.03	Average	100	139 VERTICAL
2	4875.75	41.45	74.00	-32.55	39.99	3.33	33.16	35.03	Peak	100	139 VERTICAL
3	7311.24	45.79	74.00	-28.21	41.17	4.06	35.96	35.40	Peak	100	203 VERTICAL
4	7312.79	31.00	54.00	-23.00	26.38	4.06	35.96	35.40	Average	100	203 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4902.00	28.06	54.00	-25.94	26.55	3.34	33.19	35.02	Average	100	182	HORIZONTAL
2	4904.47	41.73	74.00	-32.27	40.22	3.34	33.19	35.02	Peak	100	182	HORIZONTAL
3	7356.54	45.68	74.00	-28.32	41.00	4.06	36.02	35.40	Peak	100	118	HORIZONTAL
4	7357.52	31.78	54.00	-22.22	27.10	4.06	36.02	35.40	Average	100	118	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	4902.17	28.07	54.00	-25.93	26.56	3.34	33.19	35.02	Average	100	102	VERTICAL
2	4904.29	42.17	74.00	-31.83	40.66	3.34	33.19	35.02	Peak	100	102	VERTICAL
3	7354.60	45.41	74.00	-28.59	40.73	4.06	36.02	35.40	Peak	100	7	VERTICAL
4	7355.62	31.75	54.00	-22.25	27.07	4.06	36.02	35.40	Average	100	7	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4841.76	26.59	54.00	-27.41	25.21	3.32	33.09	35.03	Average	100	100 HORIZONTAL
2	4844.29	41.06	74.00	-32.94	39.68	3.32	33.09	35.03	Peak	100	100 HORIZONTAL
3	7267.12	45.54	74.00	-28.46	41.03	4.06	35.85	35.40	Peak	100	208 HORIZONTAL
4	7267.13	31.50	54.00	-22.50	26.99	4.06	35.85	35.40	Average	100	208 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	4842.38	26.62	54.00	-27.38	25.24	3.32	33.09	35.03	Average	100	141 VERTICAL
2	4843.91	40.45	74.00	-33.55	39.07	3.32	33.09	35.03	Peak	100	141 VERTICAL
3	7267.72	45.76	74.00	-28.24	41.25	4.06	35.85	35.40	Peak	100	291 VERTICAL
4	7268.21	31.73	54.00	-22.27	27.22	4.06	35.85	35.40	Average	100	291 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line 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	4873.80	40.55	74.00	-33.45	39.09	3.33	33.16	35.03	Peak	100	62	HORIZONTAL
2	4875.94	27.26	54.00	-26.74	25.80	3.33	33.16	35.03	Average	100	62	HORIZONTAL
3	7309.62	46.12	74.00	-27.88	41.50	4.06	35.96	35.40	Peak	100	285	HORIZONTAL
4	7311.99	31.79	54.00	-22.21	27.17	4.06	35.96	35.40	Average	100	285	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line 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	4874.29	40.38	74.00	-33.62	38.92	3.33	33.16	35.03	Peak	100	79	VERTICAL
2	4876.26	26.50	54.00	-27.50	25.04	3.33	33.16	35.03	Average	100	79	VERTICAL
3	7308.81	46.40	74.00	-27.60	41.78	4.06	35.96	35.40	Peak	100	176	VERTICAL
4	7313.50	31.91	54.00	-22.09	27.29	4.06	35.96	35.40	Average	100	176	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4901.85	26.91	54.00	-27.09	25.40	3.34	33.19	35.02	Average	100	230 HORIZONTAL
2	4903.45	40.72	74.00	-33.28	39.21	3.34	33.19	35.02	Peak	100	230 HORIZONTAL
3	7353.59	47.02	74.00	-26.98	42.34	4.06	36.02	35.40	Peak	100	333 HORIZONTAL
4	7356.59	31.84	54.00	-22.16	27.16	4.06	36.02	35.40	Average	100	333 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	4902.03	26.90	54.00	-27.10	25.39	3.34	33.19	35.02	Average	100	135 VERTICAL
2	4902.57	40.92	74.00	-33.08	39.41	3.34	33.19	35.02	Peak	100	135 VERTICAL
3	7356.46	31.82	54.00	-22.18	27.14	4.06	36.02	35.40	Average	100	229 VERTICAL
4	7358.03	46.53	74.00	-27.47	41.85	4.06	36.02	35.40	Peak	100	229 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4842.04	26.66	54.00	-27.34	25.28	3.32	33.09	35.03	Average	100	175 HORIZONTAL
2	4843.94	41.12	74.00	-32.88	39.74	3.32	33.09	35.03	Peak	100	175 HORIZONTAL
3	7264.78	46.24	74.00	-27.76	41.73	4.06	35.85	35.40	Peak	100	316 HORIZONTAL
4	7266.98	31.56	54.00	-22.44	27.05	4.06	35.85	35.40	Average	100	316 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	4842.29	26.64	54.00	-27.36	25.26	3.32	33.09	35.03	Average	100	130 VERTICAL
2	4844.30	40.51	74.00	-33.49	39.13	3.32	33.09	35.03	Peak	100	130 VERTICAL
3	7267.15	31.57	54.00	-22.43	27.06	4.06	35.85	35.40	Average	100	273 VERTICAL
4	7267.31	45.87	74.00	-28.13	41.36	4.06	35.85	35.40	Peak	100	273 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4875.56	42.34	74.00	-31.66	40.88	3.33	33.16	35.03	Peak	100	187 HORIZONTAL
2	4876.34	26.56	54.00	-27.44	25.10	3.33	33.16	35.03	Average	100	187 HORIZONTAL
3	7311.08	45.73	74.00	-28.27	41.11	4.06	35.96	35.40	Peak	100	327 HORIZONTAL
4	7312.40	31.79	54.00	-22.21	27.17	4.06	35.96	35.40	Average	100	327 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	4876.09	40.05	74.00	-33.95	38.59	3.33	33.16	35.03	Peak	100	199 VERTICAL
2	4876.40	26.57	54.00	-27.43	25.11	3.33	33.16	35.03	Average	100	199 VERTICAL
3	7309.48	31.75	54.00	-22.25	27.13	4.06	35.96	35.40	Average	100	290 VERTICAL
4	7312.57	45.71	74.00	-28.29	41.09	4.06	35.96	35.40	Peak	100	290 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4902.05	26.99	54.00	-27.01	25.48	3.34	33.19	35.02	Average	100	227 HORIZONTAL
2	4903.79	41.05	74.00	-32.95	39.54	3.34	33.19	35.02	Peak	100	227 HORIZONTAL
3	7354.00	31.88	54.00	-22.12	27.20	4.06	36.02	35.40	Average	100	120 HORIZONTAL
4	7354.55	46.35	74.00	-27.65	41.67	4.06	36.02	35.40	Peak	100	120 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4901.92	26.92	54.00	-27.08	25.41	3.34	33.19	35.02	Average	100	170 VERTICAL
2	4905.78	40.64	74.00	-33.36	39.09	3.34	33.23	35.02	Peak	100	170 VERTICAL
3	7354.13	31.89	54.00	-22.11	27.21	4.06	36.02	35.40	Average	100	9 VERTICAL
4	7357.34	45.95	74.00	-28.05	41.27	4.06	36.02	35.40	Peak	100	9 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

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	4823.71	42.69	74.00	-31.31	41.35	3.31	33.06	35.03	Peak	100	43	HORIZONTAL
2	4824.00	29.21	54.00	-24.79	27.87	3.31	33.06	35.03	Average	100	43	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	4824.30	42.38	74.00	-31.62	41.04	3.31	33.06	35.03	Peak	100	188	VERTICAL
2	4825.00	28.07	54.00	-25.93	26.73	3.31	33.06	35.03	Average	100	188	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4873.88	43.83	74.00	-30.17	42.37	3.33	33.16	35.03	Peak	100	45 HORIZONTAL
2	4874.00	34.10	54.00	-19.90	32.64	3.33	33.16	35.03	Average	100	45 HORIZONTAL
3	7312.51	45.20	74.00	-28.80	40.58	4.06	35.96	35.40	Peak	100	260 HORIZONTAL
4	7312.53	31.03	54.00	-22.97	26.41	4.06	35.96	35.40	Average	100	260 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4874.02	32.04	54.00	-21.96	30.58	3.33	33.16	35.03	Average	100	315 VERTICAL
2	4874.16	42.55	74.00	-31.45	41.09	3.33	33.16	35.03	Peak	100	315 VERTICAL
3	7311.23	44.59	74.00	-29.41	39.97	4.06	35.96	35.40	Peak	100	223 VERTICAL
4	7313.18	31.02	54.00	-22.98	26.40	4.06	35.96	35.40	Average	100	223 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.97	43.48	74.00	-30.52	41.88	3.35	33.26	35.01	Peak	100	45 HORIZONTAL
2	4923.98	31.88	54.00	-22.12	30.28	3.35	33.26	35.01	Average	100	45 HORIZONTAL
3	7386.18	46.54	74.00	-27.46	41.79	4.06	36.09	35.40	Peak	100	90 HORIZONTAL
4	7386.70	31.98	54.00	-22.02	27.23	4.06	36.09	35.40	Average	100	90 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4923.90	30.03	54.00	-23.97	28.43	3.35	33.26	35.01	Average	100	205 VERTICAL
2	4924.34	41.86	74.00	-32.14	40.26	3.35	33.26	35.01	Peak	100	205 VERTICAL
3	7384.82	46.29	74.00	-27.71	41.54	4.06	36.09	35.40	Peak	100	130 VERTICAL
4	7387.87	31.96	54.00	-22.04	27.21	4.06	36.09	35.40	Average	100	130 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

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	4824.07	28.26	54.00	-25.74	26.92	3.31	33.06	35.03	Average	100	24	HORIZONTAL
2	4824.72	41.79	74.00	-32.21	40.45	3.31	33.06	35.03	Peak	100	24	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	4823.92	42.20	74.00	-31.80	40.86	3.31	33.06	35.03	Peak	100	136	VERTICAL
2	4824.04	28.18	54.00	-25.82	26.84	3.31	33.06	35.03	Average	100	136	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1+Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4873.82	44.32	74.00	-29.68	42.86	3.33	33.16	35.03	Peak	100	28 HORIZONTAL
2	4873.94	36.03	54.00	-17.97	34.57	3.33	33.16	35.03	Average	100	28 HORIZONTAL
3	7310.65	44.97	74.00	-29.03	40.35	4.06	35.96	35.40	Peak	100	185 HORIZONTAL
4	7313.48	31.27	54.00	-22.73	26.65	4.06	35.96	35.40	Average	100	185 HORIZONTAL

Vertical

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			Loss	Factor	Factor			
1	4873.99	34.03	54.00	-19.97	32.57	3.33	33.16	35.03	Average	100	310 VERTICAL
2	4874.06	43.80	74.00	-30.20	42.34	3.33	33.16	35.03	Peak	100	310 VERTICAL
3	7313.06	31.36	54.00	-22.64	26.74	4.06	35.96	35.40	Average	100	21 VERTICAL
4	7313.90	45.43	74.00	-28.57	40.81	4.06	35.96	35.40	Peak	100	21 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (2TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4924.01	31.97	54.00	-22.03	30.37	3.35	33.26	35.01	Average	100	38 HORIZONTAL
2	4924.11	43.45	74.00	-30.55	41.85	3.35	33.26	35.01	Peak	100	38 HORIZONTAL
3	7385.40	45.78	74.00	-28.22	41.03	4.06	36.09	35.40	Peak	100	312 HORIZONTAL
4	7386.84	31.92	54.00	-22.08	27.17	4.06	36.09	35.40	Average	100	312 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	4923.80	43.02	74.00	-30.98	41.42	3.35	33.26	35.01	Peak	101	298 VERTICAL
2	4923.94	31.94	54.00	-22.06	30.34	3.35	33.26	35.01	Average	101	298 VERTICAL
3	7385.30	45.72	74.00	-28.28	40.97	4.06	36.09	35.40	Peak	100	272 VERTICAL
4	7386.97	31.91	54.00	-22.09	27.16	4.06	36.09	35.40	Average	100	272 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m				
1	4824.13	27.58	54.00	-26.42	26.24	3.31	33.06	35.03	Average	100	123	HORIZONTAL
2	4824.71	41.49	74.00	-32.51	40.15	3.31	33.06	35.03	Peak	100	123	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				
1	4823.94	41.68	74.00	-32.32	40.34	3.31	33.06	35.03	Peak	100	140	VERTICAL
2	4823.99	28.32	54.00	-25.68	26.98	3.31	33.06	35.03	Average	100	140	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

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	4873.90	44.51	74.00	-29.49	43.05	3.33	33.16	35.03	Peak	100	16 HORIZONTAL
2	4873.97	37.42	54.00	-16.58	35.96	3.33	33.16	35.03	Average	100	16 HORIZONTAL
3	7312.30	31.87	54.00	-22.13	27.25	4.06	35.96	35.40	Average	100	222 HORIZONTAL
4	7313.10	46.47	74.00	-27.53	41.85	4.06	35.96	35.40	Peak	100	222 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	4873.76	45.08	74.00	-28.92	43.62	3.33	33.16	35.03	Peak	100	355 VERTICAL
2	4873.97	37.91	54.00	-16.09	36.45	3.33	33.16	35.03	Average	100	355 VERTICAL
3	7309.14	45.95	74.00	-28.05	41.33	4.06	35.96	35.40	Peak	100	288 VERTICAL
4	7309.69	32.01	54.00	-21.99	27.39	4.06	35.96	35.40	Average	100	288 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi) (3TX)

Horizontal

Freq	Level	Limit		Over Limit	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		Line	dB			dBuV	dB	dB/m			
1	4923.94	43.84	74.00	-30.16	42.24	3.35	33.26	35.01	Peak	100	30 HORIZONTAL
2	4923.98	36.15	54.00	-17.85	34.55	3.35	33.26	35.01	Average	100	30 HORIZONTAL
3	7385.57	47.22	74.00	-26.78	42.47	4.06	36.09	35.40	Peak	100	235 HORIZONTAL
4	7387.17	32.25	54.00	-21.75	27.50	4.06	36.09	35.40	Average	100	235 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	4923.84	44.00	74.00	-30.00	42.40	3.35	33.26	35.01	Peak	101	31 VERTICAL
2	4923.97	34.24	54.00	-19.76	32.64	3.35	33.26	35.01	Average	101	31 VERTICAL
3	7387.44	32.21	54.00	-21.79	27.46	4.06	36.09	35.40	Average	100	175 VERTICAL
4	7388.27	46.76	74.00	-27.24	42.01	4.06	36.09	35.40	Peak	100	175 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°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Line	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
			Limit	Level	dBmV	dB	dB/m	dB		cm	deg	
1	4814.56	28.35	54.00	-25.65	27.06	3.31	33.02	35.04	Average	100	245	HORIZONTAL
2	4831.56	42.46	74.00	-31.54	41.12	3.31	33.06	35.03	Peak	100	245	HORIZONTAL

Vertical

Freq	Level	Line	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
			Limit	Level	dBmV	dB	dB/m	dB		cm	deg	
1	4814.56	28.33	54.00	-25.67	27.04	3.31	33.02	35.04	Average	100	216	VERTICAL
2	4818.56	41.97	74.00	-32.03	40.67	3.31	33.02	35.03	Peak	100	216	VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4877.56	43.01	74.00	-30.99	41.55	3.33	33.16	35.03	Peak	100	138 HORIZONTAL
2	4878.68	27.94	54.00	-26.06	26.48	3.33	33.16	35.03	Average	100	138 HORIZONTAL
3	7302.24	31.64	54.00	-22.36	27.06	4.06	35.92	35.40	Average	100	211 HORIZONTAL
4	7305.68	45.31	74.00	-28.69	40.73	4.06	35.92	35.40	Peak	100	211 HORIZONTAL

Vertical

Freq	Level	Limit		Over Line	Read Level	Cable Antenna Preamp			A/Pos	T/Pos	Pol/Phase
		dB	dB			Loss	Factor	Factor			
1	4870.04	41.82	74.00	-32.18	40.40	3.33	33.12	35.03	Peak	100	187 VERTICAL
2	4879.16	28.01	54.00	-25.99	26.55	3.33	33.16	35.03	Average	100	187 VERTICAL
3	7302.68	31.58	54.00	-22.42	27.00	4.06	35.92	35.40	Average	100	288 VERTICAL
4	7305.80	45.22	74.00	-28.78	40.64	4.06	35.92	35.40	Peak	100	288 VERTICAL



Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi) (1TX)

Horizontal

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4915.12	28.58	54.00	-25.42	27.02	3.35	33.23	35.02	Average	100	211	HORIZONTAL
2	4925.80	42.12	74.00	-31.88	40.52	3.35	33.26	35.01	Peak	100	211	HORIZONTAL
3	7383.72	32.33	54.00	-21.67	27.58	4.06	36.09	35.40	Average	100	92	HORIZONTAL
4	7394.52	46.40	74.00	-27.60	41.61	4.06	36.13	35.40	Peak	100	92	HORIZONTAL

Vertical

Freq	Level	Limit		Over Line Limit	Read Level	Cable Antenna Preamp			Remark	A/Pos	T/Pos	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			
1	4914.20	28.59	54.00	-25.41	27.04	3.34	33.23	35.02	Average	100	289	VERTICAL
2	4916.04	42.11	74.00	-31.89	40.55	3.35	33.23	35.02	Peak	100	289	VERTICAL
3	7379.56	46.50	74.00	-27.50	41.75	4.06	36.09	35.40	Peak	100	198	VERTICAL
4	7392.12	32.30	54.00	-21.70	27.55	4.06	36.09	35.40	Average	100	198	VERTICAL