

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	cm	deg
1	10598.29	38.14	68.30	-30.16	28.18	6.60	35.12	38.48	Average	HORIZONTAL	100	214
2 p	10599.65	52.39	68.30	-15.91	42.43	6.60	35.12	38.48	Peak	HORIZONTAL	100	214
3	15917.58	54.48	74.00	-19.52	43.20	7.99	35.12	38.41	Peak	HORIZONTAL	100	105
4 a	15948.91	40.27	54.00	-13.73	29.01	7.99	35.14	38.41	Average	HORIZONTAL	100	105

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	cm	deg
1	10601.25	52.22	74.00	-21.78	42.24	6.60	35.10	38.48	Peak	VERTICAL	100	160
2	10611.83	38.16	54.00	-15.84	28.18	6.60	35.10	38.48	Average	VERTICAL	100	160
3 p	15905.56	53.95	74.00	-20.05	42.67	7.98	35.12	38.42	Peak	VERTICAL	100	67
4 a	15947.15	40.29	54.00	-13.71	29.03	7.99	35.14	38.41	Average	VERTICAL	100	67

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11000.69	51.46	74.00	-22.54	41.41	6.46	34.81	38.40	Peak	HORIZONTAL	100	232
2 a	11002.93	38.02	54.00	-15.98	27.97	6.46	34.81	38.40	Average	HORIZONTAL	100	232
3 p	16517.66	55.46	68.30	-12.84	42.14	8.04	34.76	40.04	Peak	HORIZONTAL	100	314

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 a	11003.01	37.95	54.00	-16.05	27.90	6.46	34.81	38.40	Average	VERTICAL	100	153
2	11025.37	51.46	74.00	-22.54	41.38	6.48	34.81	38.41	Peak	VERTICAL	100	153
3 p	16521.03	55.59	68.30	-12.71	42.27	8.04	34.76	40.04	Peak	VERTICAL	100	258

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11079.25	51.28	74.00	-22.72	41.16	6.51	34.81	38.42	Peak	HORIZONTAL	100	289
2 a	11099.20	37.92	54.00	-16.08	27.79	6.52	34.81	38.42	Average	HORIZONTAL	100	289
3 p	16644.23	56.00	68.30	-12.30	42.25	8.04	34.59	40.30	Peak	HORIZONTAL	100	186

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11090.30	52.19	74.00	-21.81	42.06	6.52	34.81	38.42	Peak	VERTICAL	100	232
2 a	11102.32	38.42	54.00	-15.58	28.29	6.52	34.81	38.42	Average	VERTICAL	100	232
3 p	16650.24	66.09	68.30	-2.21	52.26	8.04	34.55	40.34	Peak	VERTICAL	121	100

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 a	11318.13	38.18	54.00	-15.82	27.90	6.64	34.82	38.46	Average	HORIZONTAL	100	62
2	11357.15	51.75	74.00	-22.25	41.44	6.66	34.82	38.47	Peak	HORIZONTAL	100	62
3 p	16999.74	56.57	68.30	-11.73	41.42	8.06	34.01	41.10	Peak	HORIZONTAL	100	311

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11337.34	52.48	74.00	-21.52	42.18	6.65	34.82	38.47	Peak	VERTICAL	100	296
2 a	11343.57	38.30	54.00	-15.70	28.00	6.65	34.82	38.47	Average	VERTICAL	100	296
3 p	17020.74	61.48	68.30	-6.82	46.27	8.06	34.00	41.15	Peak	VERTICAL	110	93

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	10518.24	52.79	68.30	-15.51	42.84	6.63	35.18	38.50	Peak	HORIZONTAL	100	198
2	15771.59	55.72	74.00	-18.28	44.34	7.93	34.99	38.44	Peak	HORIZONTAL	100	153
3 a	15782.08	42.01	54.00	-11.99	30.64	7.94	35.01	38.44	Average	HORIZONTAL	100	153

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	10524.49	59.33	68.30	-8.97	49.36	6.63	35.16	38.50	Peak	VERTICAL	100	89
2 a	15776.15	45.67	54.00	-8.33	34.29	7.93	34.99	38.44	Average	VERTICAL	112	123
3	15776.55	59.08	74.00	-14.92	47.70	7.93	34.99	38.44	Peak	VERTICAL	112	123

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	cm	deg
1	10601.28	40.06	54.00	-13.94	30.08	6.60	35.10	38.48	Average	HORIZONTAL	100	317
2	10602.16	52.58	74.00	-21.42	42.60	6.60	35.10	38.48	Peak	HORIZONTAL	100	317
3 a	15901.60	41.49	54.00	-12.51	30.18	7.98	35.09	38.42	Average	HORIZONTAL	111	174
4 p	15905.53	54.61	74.00	-19.39	43.33	7.98	35.12	38.42	Peak	HORIZONTAL	111	174

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	cm	deg
1	10602.56	44.43	54.00	-9.57	34.45	6.60	35.10	38.48	Average	VERTICAL	100	93
2	10602.72	58.31	74.00	-15.69	48.33	6.60	35.10	38.48	Peak	VERTICAL	100	93
3 p	15903.93	58.89	74.00	-15.11	47.58	7.98	35.09	38.42	Peak	VERTICAL	125	108
4 a	15904.33	45.11	54.00	-8.89	33.80	7.98	35.09	38.42	Average	VERTICAL	125	108

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Remark	Pol/Phase	cm	deg
1	10635.19	37.85	54.00	-16.15	27.87	6.59	35.08	38.47	Average	HORIZONTAL	100	219
2	10651.78	50.68	74.00	-23.32	40.69	6.58	35.06	38.47	Peak	HORIZONTAL	100	219
3 a	15947.18	39.84	54.00	-14.16	28.58	7.99	35.14	38.41	Average	HORIZONTAL	100	153
4 p	15949.26	52.55	74.00	-21.45	41.29	7.99	35.14	38.41	Peak	HORIZONTAL	100	153

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Remark	Pol/Phase	cm	deg
1	10639.84	38.91	54.00	-15.09	28.93	6.59	35.08	38.47	Average	VERTICAL	100	161
2	10646.41	51.87	74.00	-22.13	41.89	6.59	35.08	38.47	Peak	VERTICAL	100	161
3 a	15957.12	45.29	54.00	-8.71	34.04	8.00	35.16	38.41	Average	VERTICAL	132	102
4 p	15967.37	59.93	74.00	-14.07	48.68	8.00	35.16	38.41	Peak	VERTICAL	132	102

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 a	11004.81	37.60	54.00	-16.40	27.54	6.47	34.81	38.40	Average	HORIZONTAL	100	150
2	11009.13	51.52	74.00	-22.48	41.46	6.47	34.81	38.40	Peak	HORIZONTAL	100	150
3 p	16477.08	55.54	68.30	-12.76	42.44	8.03	34.82	39.89	Peak	HORIZONTAL	111	158

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 a	10976.76	37.67	54.00	-16.33	27.63	6.47	34.83	38.40	Average	VERTICAL	100	172
2	10997.60	51.65	74.00	-22.35	41.60	6.46	34.81	38.40	Peak	VERTICAL	100	172
3 p	16494.31	65.43	68.30	-2.87	52.25	8.03	34.80	39.95	Peak	VERTICAL	130	102

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	
						dB	dB	dB/m			cm deg
1	11162.80	50.73	74.00	-23.27	40.55	6.56	34.81	38.43	Peak	HORIZONTAL	100 159
2 a	11163.85	37.91	54.00	-16.09	27.73	6.56	34.81	38.43	Average	HORIZONTAL	100 159
3 p	16726.30	55.89	68.30	-12.41	41.78	8.05	34.43	40.49	Peak	HORIZONTAL	111 157

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	Pol/Phase	
						dB	dB	dB/m			cm deg
1 a	11159.52	42.81	54.00	-11.19	32.63	6.56	34.81	38.43	Average	VERTICAL	100 147
2	11160.08	56.60	74.00	-17.40	46.42	6.56	34.81	38.43	Peak	VERTICAL	100 147
3 p	16729.02	67.95	68.30	-0.35	53.84	8.05	34.43	40.49	Peak	VERTICAL	123 101

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11386.94	51.37	74.00	-22.63	41.03	6.68	34.82	38.48	Peak	HORIZONTAL	100	89
2 a	11401.52	38.24	54.00	-15.76	27.89	6.69	34.82	38.48	Average	HORIZONTAL	100	89
3 p	17090.63	57.25	68.30	-11.05	41.77	8.07	33.99	41.40	Peak	HORIZONTAL	100	153

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	11382.13	51.30	74.00	-22.70	40.96	6.68	34.82	38.48	Peak	VERTICAL	100	150
2 a	11398.64	38.26	54.00	-15.74	27.91	6.69	34.82	38.48	Average	VERTICAL	100	150
3 p	17092.79	60.94	68.30	-7.36	45.46	8.07	33.99	41.40	Peak	VERTICAL	124	101

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	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	15799.60	53.89	74.00	-20.11	45.79	6.14	37.39	35.43	Peak	100	150 HORIZONTAL
2	15814.00	42.10	54.00	-11.90	34.02	6.14	37.37	35.43	Average	100	150 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	15811.60	44.17	54.00	-9.83	36.09	6.14	37.37	35.43	Average	100	135 VERTICAL
2	15813.40	55.63	74.00	-18.37	47.55	6.14	37.37	35.43	Peak	100	135 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 60 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10583.80	49.04	68.30	-19.26	41.09	5.01	38.38	35.44	Peak	100	264 HORIZONTAL
2	10614.60	39.34	54.00	-14.66	31.37	5.01	38.38	35.42	Average	100	264 HORIZONTAL
3	15925.40	53.01	74.00	-20.99	45.03	6.15	37.27	35.44	Peak	100	148 HORIZONTAL
4	15930.60	42.73	54.00	-11.27	34.77	6.15	37.25	35.44	Average	100	148 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10607.20	37.15	54.00	-16.85	29.18	5.01	38.38	35.42	Average	100	233 VERTICAL
2	10629.60	50.42	74.00	-23.58	42.42	5.01	38.38	35.39	Peak	100	233 VERTICAL
3	15928.40	57.17	74.00	-16.83	49.19	6.15	37.27	35.44	Peak	100	133 VERTICAL
4	15929.80	45.51	54.00	-8.49	37.55	6.15	37.25	35.44	Average	100	133 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 64 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10662.40	38.60	54.00	-15.40	30.59	5.01	38.37	35.37	Average	100	237	HORIZONTAL
2	10666.00	50.11	74.00	-23.89	42.10	5.01	38.37	35.37	Peak	100	237	HORIZONTAL
3	15989.20	52.44	74.00	-21.56	44.52	6.15	37.20	35.43	Peak	100	171	HORIZONTAL
4	15989.80	41.20	54.00	-12.80	33.28	6.15	37.20	35.43	Average	100	171	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10657.80	39.10	54.00	-14.90	31.09	5.01	38.37	35.37	Average	100	62	VERTICAL
2	10657.80	50.78	74.00	-23.22	42.77	5.01	38.37	35.37	Peak	100	62	VERTICAL
3	15987.40	45.33	54.00	-8.67	37.38	6.15	37.23	35.43	Average	100	132	VERTICAL
4	15987.80	57.29	74.00	-16.71	49.34	6.15	37.23	35.43	Peak	100	132	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11009.00	48.16	74.00	-25.84	39.92	5.02	38.33	35.11	Peak	100	147	HORIZONTAL
2	11021.00	36.19	54.00	-17.81	27.95	5.02	38.33	35.11	Average	100	147	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.80	37.54	54.00	-16.46	29.31	5.02	38.32	35.11	Average	140	232	VERTICAL
2	11019.80	48.55	74.00	-25.45	40.32	5.02	38.32	35.11	Peak	140	232	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 116 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	11178.00	52.49	74.00	-21.51	44.13	5.05	38.48	35.17	Peak	100	140 HORIZONTAL
2	11179.60	40.06	54.00	-13.94	31.70	5.05	38.48	35.17	Average	100	140 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
			dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	11180.60	54.70	74.00	-19.30	46.34	5.05	38.48	35.17	Peak	183	240 VERTICAL
2	11181.20	43.04	54.00	-10.96	34.68	5.05	38.48	35.17	Average	183	240 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 140 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	11390.36	35.97	54.00	-18.03	27.45	5.09	38.68	35.25	Average	100	247	HORIZONTAL
2	11407.88	48.80	74.00	-25.20	40.25	5.10	38.70	35.25	Peak	100	247	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	11392.36	48.66	74.00	-25.34	40.13	5.10	38.68	35.25	Peak	100	346	VERTICAL
2	11394.88	36.10	54.00	-17.90	27.57	5.10	38.68	35.25	Average	100	346	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15800.24	52.00	74.00	-22.00	43.90	6.14	37.39	35.43	Peak	100	187	HORIZONTAL
2	15816.92	39.17	54.00	-14.83	31.09	6.14	37.37	35.43	Average	100	187	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15804.60	40.57	54.00	-13.43	32.47	6.14	37.39	35.43	Average	100	291	VERTICAL
2	15807.40	52.75	74.00	-21.25	44.65	6.14	37.39	35.43	Peak	100	291	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 62 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10613.72	36.75	54.00	-17.25	28.78	5.01	38.38	35.42	Average	101	134 HORIZONTAL
2	10617.84	50.49	74.00	-23.51	42.52	5.01	38.38	35.42	Peak	101	134 HORIZONTAL
3	15922.00	52.82	74.00	-21.18	44.84	6.15	37.27	35.44	Peak	101	332 HORIZONTAL
4	15934.72	39.39	54.00	-14.61	31.43	6.15	37.25	35.44	Average	101	332 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10610.72	36.88	54.00	-17.12	28.91	5.01	38.38	35.42	Average	101	293 VERTICAL
2	10619.04	49.93	74.00	-24.07	41.96	5.01	38.38	35.42	Peak	101	293 VERTICAL
3	15934.52	39.65	54.00	-14.35	31.69	6.15	37.25	35.44	Average	109	140 VERTICAL
4	15936.00	52.42	74.00	-21.58	44.46	6.15	37.25	35.44	Peak	109	140 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11010.36	47.97	74.00	-26.03	39.73	5.02	38.33	35.11	Peak	101	217	HORIZONTAL
2	11015.08	34.96	54.00	-19.04	26.72	5.02	38.33	35.11	Average	101	217	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11013.04	35.18	54.00	-18.82	26.95	5.02	38.32	35.11	Average	101	17	VERTICAL
2	11024.56	47.81	74.00	-26.19	39.57	5.02	38.33	35.11	Peak	101	17	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 110 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11102.04	49.96	74.00	-24.04	41.67	5.03	38.40	35.14	Peak	100	237 HORIZONTAL
2	11104.72	38.47	54.00	-15.53	30.18	5.03	38.40	35.14	Average	100	237 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11098.04	52.91	74.00	-21.09	44.62	5.03	38.40	35.14	Peak	153	114 VERTICAL
2	11099.28	40.90	54.00	-13.10	32.61	5.03	38.40	35.14	Average	153	114 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 134 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11340.88	37.35	54.00	-16.65	28.87	5.09	38.63	35.24	100	240	HORIZONTAL
2	11346.60	49.49	74.00	-24.51	40.99	5.09	38.65	35.24	100	240	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11339.80	38.09	54.00	-15.91	29.62	5.08	38.63	35.24	100	159	VERTICAL
2	11340.96	52.91	74.00	-21.09	44.43	5.09	38.63	35.24	100	159	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	15811.40	54.18	74.00	-19.82	46.10	6.14	37.37	35.43	Peak	100	149 HORIZONTAL
2	15811.60	42.04	54.00	-11.96	33.96	6.14	37.37	35.43	Average	100	149 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	15806.60	56.05	74.00	-17.95	47.95	6.14	37.39	35.43	Peak	100	135 VERTICAL
2	15810.60	43.58	54.00	-10.42	35.50	6.14	37.37	35.43	Average	100	135 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 60 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss Factor	Factor	Remark	cm	deg	Pol/Phase
1	15920.20	55.39	74.00	-18.61	47.41	6.15	37.27	35.44 Peak	100	161	HORIZONTAL
2	15930.20	42.80	54.00	-11.20	34.84	6.15	37.25	35.44 Average	100	161	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss Factor	Factor	Remark	cm	deg	Pol/Phase
1	15924.40	58.21	74.00	-15.79	50.23	6.15	37.27	35.44 Peak	100	127	VERTICAL
2	15925.00	46.09	54.00	-7.91	38.11	6.15	37.27	35.44 Average	100	127	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 64 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10596.20	49.93	68.30	-18.37	41.98	5.01	38.38	35.44	Peak	100	153 HORIZONTAL
2	10657.40	38.27	54.00	-15.73	30.26	5.01	38.37	35.37	Average	100	153 HORIZONTAL
3	15977.40	55.09	74.00	-18.91	47.15	6.15	37.22	35.43	Peak	100	162 HORIZONTAL
4	15987.20	42.94	54.00	-11.06	35.02	6.15	37.20	35.43	Average	100	162 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10656.40	39.86	54.00	-14.14	31.85	5.01	38.37	35.37	Average	100	246 VERTICAL
2	10662.40	51.83	74.00	-22.17	43.82	5.01	38.37	35.37	Peak	100	246 VERTICAL
3	15976.80	59.20	74.00	-14.80	51.26	6.15	37.22	35.43	Peak	100	132 VERTICAL
4	15987.40	46.02	54.00	-7.98	38.07	6.15	37.23	35.43	Average	100	132 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11016.20	36.93	54.00	-17.07	28.69	5.02	38.33	35.11	Average	100	136 HORIZONTAL
2	11020.80	47.59	74.00	-26.41	39.35	5.02	38.33	35.11	Peak	100	136 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	10997.80	47.79	74.00	-26.21	39.58	5.01	38.30	35.10	Peak	100	240 VERTICAL
2	11014.60	37.93	54.00	-16.07	29.70	5.02	38.32	35.11	Average	100	240 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 116 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11177.60	40.66	54.00	-13.34	32.30	5.05	38.48	35.17	Average	100	231 HORIZONTAL
2	11182.00	52.07	74.00	-21.93	43.71	5.05	38.48	35.17	Peak	100	231 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11179.80	54.87	74.00	-19.13	46.51	5.05	38.48	35.17	Peak	100	134 VERTICAL
2	11180.60	43.11	54.00	-10.89	34.75	5.05	38.48	35.17	Average	100	134 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 140 / Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	11354.40	49.08	74.00	-24.92	40.58	5.09	38.65	35.24	Peak	100	62	HORIZONTAL
2	11418.60	37.05	54.00	-16.95	28.49	5.10	38.72	35.26	Average	100	62	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	11370.20	48.86	74.00	-25.14	40.35	5.09	38.67	35.25	Peak	100	223	VERTICAL
2	11414.20	37.98	54.00	-16.02	29.42	5.10	38.72	35.26	Average	100	223	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.

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.25-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

4.7.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1 MHz / 3MHz for Peak

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3, only the frequency range investigated is limited to 100MHz around bandedges.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5147.00	55.71	74.00	-18.29	15.21	6.49	34.01	0.00	Peak	118	358	HORIZONTAL
2	5150.00	42.69	54.00	-11.31	2.19	6.49	34.01	0.00	Average	118	358	HORIZONTAL
3	5254.60				64.12	6.56	34.22	0.00	Average	118	358	HORIZONTAL
4	5255.20				74.09	6.56	34.22	0.00	Peak	118	358	HORIZONTAL
5	5350.00	43.39	54.00	-10.61	2.35	6.62	34.42	0.00	Average	118	358	HORIZONTAL
6	5351.20	55.14	74.00	-18.86	14.10	6.62	34.42	0.00	Peak	118	358	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5302.00				64.00	6.59	34.32	0.00	Average	110	358	HORIZONTAL
2	5303.60				74.63	6.59	34.32	0.00	Peak	110	358	HORIZONTAL
3	5350.00	44.96	54.00	-9.04	3.92	6.62	34.42	0.00	Average	110	358	HORIZONTAL
4	5352.80	57.68	74.00	-16.32	16.64	6.62	34.42	0.00	Peak	110	358	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5314.60				62.99	6.60	34.36	0.00	Average	114	357	HORIZONTAL
2	5315.60				73.50	6.60	34.36	0.00	Peak	114	357	HORIZONTAL
3	5351.20	71.08	74.00	-2.92	30.04	6.62	34.42	0.00	Peak	114	357	HORIZONTAL
4	5352.00	53.89	54.00	-0.11	12.85	6.62	34.42	0.00	Average	114	357	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5460.00	45.61	54.00	-8.39	4.30	6.68	34.63	0.00 Average	112	358	HORIZONTAL	
2	5460.00	60.16	74.00	-13.84	18.85	6.68	34.63	0.00 Peak	112	358	HORIZONTAL	
3	5469.60	67.94	68.30	-0.36	26.58	6.69	34.67	0.00 Peak	112	358	HORIZONTAL	
4	5494.40				71.50	6.71	34.70	0.00 Peak	112	358	HORIZONTAL	
5	5494.60				60.29	6.71	34.70	0.00 Average	112	358	HORIZONTAL	

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5695.40				69.38	6.73	34.86	0.00 Peak	109	356	HORIZONTAL	
2	5707.00				58.42	6.73	34.87	0.00 Average	109	356	HORIZONTAL	
3	5725.20	67.61	68.30	-0.69	25.98	6.74	34.89	0.00 Peak	109	356	HORIZONTAL	

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54, 62 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5252.40				71.22	6.56	34.22	0.00	Peak	114	359	HORIZONTAL
2	5272.80				60.20	6.57	34.25	0.00	Average	114	359	HORIZONTAL
3	5350.00	50.09	54.00	-3.91	9.05	6.62	34.42	0.00	Average	114	359	HORIZONTAL
4	5351.60	65.78	74.00	-8.22	24.74	6.62	34.42	0.00	Peak	114	359	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5313.60				55.90	6.60	34.32	0.00	Average	109	358	HORIZONTAL
2	5315.20				66.31	6.60	34.36	0.00	Peak	109	358	HORIZONTAL
3	5350.40	72.77	74.00	-1.23	31.73	6.62	34.42	0.00	Peak	109	358	HORIZONTAL
4	5351.60	53.70	54.00	-0.30	12.66	6.62	34.42	0.00	Average	109	358	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102,110,134 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5456.40	60.83	74.00	-13.17	19.52	6.68	34.63	0.00	Peak	110	350	HORIZONTAL
2	5460.00	46.09	54.00	-7.91	4.78	6.68	34.63	0.00	Average	110	350	HORIZONTAL
3	5468.00	68.26	68.30	-0.04	26.90	6.69	34.67	0.00	Peak	110	350	HORIZONTAL
4	5500.80				63.66	6.71	34.70	0.00	Peak	110	350	HORIZONTAL
5	5502.80				52.33	6.71	34.71	0.00	Average	110	350	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5454.00	47.72	54.00	-6.28	6.41	6.68	34.63	0.00	Average	111	358	HORIZONTAL
2	5460.00	61.32	74.00	-12.68	20.01	6.68	34.63	0.00	Peak	111	358	HORIZONTAL
3	5469.60	63.98	68.30	-4.32	22.62	6.69	34.67	0.00	Peak	111	358	HORIZONTAL
4	5535.20				58.99	6.71	34.73	0.00	Average	111	358	HORIZONTAL
5	5542.40				70.74	6.72	34.74	0.00	Peak	111	358	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5654.00				68.23	6.73	34.82	0.00	Peak	113	358	HORIZONTAL
2	5676.00				56.92	6.73	34.85	0.00	Average	113	358	HORIZONTAL
3	5729.00	67.82	68.30	-0.48	26.19	6.74	34.89	0.00	Peak	113	358	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5144.36	57.64	74.00	-16.36	17.14	6.49	34.01	0.00	Peak	110	358	HORIZONTAL
2	5150.00	44.66	54.00	-9.34	4.16	6.49	34.01	0.00	Average	110	358	HORIZONTAL
3	5262.17				76.23	6.56	34.22	0.00	Peak	110	358	HORIZONTAL
4	5262.60				66.02	6.57	34.22	0.00	Average	110	358	HORIZONTAL
5	5350.00	45.50	54.00	-8.50	4.46	6.62	34.42	0.00	Average	110	358	HORIZONTAL
6	5350.00	58.30	74.00	-15.70	17.26	6.62	34.42	0.00	Peak	110	358	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5300.80				64.31	6.59	34.32	0.00	Average	110	358	HORIZONTAL
2	5300.80				74.66	6.59	34.32	0.00	Peak	110	358	HORIZONTAL
3	5350.00	45.36	54.00	-8.64	4.32	6.62	34.42	0.00	Average	110	358	HORIZONTAL
4	5352.40	58.52	74.00	-15.48	17.48	6.62	34.42	0.00	Peak	110	358	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5318.20				62.33	6.60	34.36	0.00	Average	110	359	HORIZONTAL
2	5318.40				73.11	6.60	34.36	0.00	Peak	110	359	HORIZONTAL
3	5350.00	53.10	54.00	-0.90	12.06	6.62	34.42	0.00	Average	110	359	HORIZONTAL
4	5351.00	69.03	74.00	-4.97	27.99	6.62	34.42	0.00	Peak	110	359	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5456.20	45.48	54.00	-8.52	4.17	6.68	34.63	0.00	Average	112	358	HORIZONTAL
2	5456.80	61.44	74.00	-12.56	20.13	6.68	34.63	0.00	Peak	112	358	HORIZONTAL
3	5466.80	67.56	68.30	-0.74	26.24	6.69	34.63	0.00	Peak	112	358	HORIZONTAL
4	5497.40				61.54	6.71	34.70	0.00	Average	112	358	HORIZONTAL
5	5497.40				72.68	6.71	34.70	0.00	Peak	112	358	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5698.40				72.08	6.73	34.86	0.00	Peak	112	359	HORIZONTAL
2	5698.80				60.26	6.73	34.86	0.00	Average	112	359	HORIZONTAL
3	5725.00	67.67	68.30	-0.63	26.04	6.74	34.89	0.00	Peak	112	359	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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

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

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5132.60	46.85	54.00	-7.15	9.78	3.43	33.64	0.00	Average	104	346	HORIZONTAL
2	5132.60	57.94	74.00	-16.06	20.87	3.43	33.64	0.00	Peak	104	346	HORIZONTAL
3	5261.20				72.34	3.46	33.85	0.00	Average	104	346	HORIZONTAL
4	5261.80				82.27	3.46	33.85	0.00	Peak	104	346	HORIZONTAL
5	5350.60	46.89	54.00	-7.11	9.37	3.49	34.03	0.00	Average	104	346	HORIZONTAL
6	5351.20	59.69	74.00	-14.31	22.17	3.49	34.03	0.00	Peak	104	346	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5295.20				84.34	3.47	33.91	0.00	Peak	100	344	HORIZONTAL
2	5296.40				73.40	3.47	33.91	0.00	Average	100	344	HORIZONTAL
3	5350.00	49.93	54.00	-4.07	12.41	3.49	34.03	0.00	Average	100	344	HORIZONTAL
4	5352.00	67.61	74.00	-6.39	30.09	3.49	34.03	0.00	Peak	100	344	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5317.40				70.08	3.48	33.97	0.00	Average	107	345	HORIZONTAL
2	5319.40				80.86	3.48	33.97	0.00	Peak	107	345	HORIZONTAL
3	5350.00	53.84	54.00	-0.16	16.32	3.49	34.03	0.00	Average	107	345	HORIZONTAL
4	5350.40	71.80	74.00	-2.20	34.28	3.49	34.03	0.00	Peak	107	345	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5459.00	58.85	74.00	-15.15	21.14	3.52	34.19	0.00 Peak	114	347	HORIZONTAL
2	5460.00	45.54	54.00	-8.46	7.83	3.52	34.19	0.00 Average	114	347	HORIZONTAL
3	5469.80	67.42	68.30	-0.88	29.69	3.52	34.21	0.00 Peak	114	347	HORIZONTAL
4	5492.40				67.12	3.53	34.23	0.00 Average	114	347	HORIZONTAL
5	5495.40				78.54	3.53	34.23	0.00 Peak	114	347	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5702.60				66.62	3.59	34.34	0.00 Average	103	346	HORIZONTAL
2	5703.00				77.55	3.59	34.34	0.00 Peak	103	346	HORIZONTAL
3	5725.60	68.07	68.30	-0.23	30.13	3.60	34.34	0.00 Peak	103	346	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54, 62 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5267.20				78.09	3.46	33.88	0.00 Peak	100	356	HORIZONTAL
2	5287.60				67.09	3.47	33.91	0.00 Average	100	356	HORIZONTAL
3	5350.00	52.99	54.00	-1.01	15.47	3.49	34.03	0.00 Average	100	356	HORIZONTAL
4	5352.00	71.73	74.00	-2.27	34.21	3.49	34.03	0.00 Peak	100	356	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5299.20				61.57	3.48	33.94	0.00 Average	100	343	HORIZONTAL
2	5321.20				73.21	3.48	33.97	0.00 Peak	100	343	HORIZONTAL
3	5350.00	52.94	54.00	-1.06	15.42	3.49	34.03	0.00 Average	100	343	HORIZONTAL
4	5350.40	72.57	74.00	-1.43	35.05	3.49	34.03	0.00 Peak	100	343	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102,110,134 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5460.00	46.58	54.00	-7.42	8.87	3.52	34.19	0.00	Average	100	357	HORIZONTAL
2	5460.00	61.33	74.00	-12.67	23.62	3.52	34.19	0.00	Peak	100	357	HORIZONTAL
3	5468.80	67.93	68.30	-0.37	30.20	3.52	34.21	0.00	Peak	100	357	HORIZONTAL
4	5502.80				60.45	3.54	34.25	0.00	Average	100	357	HORIZONTAL
5	5524.00				71.47	3.54	34.27	0.00	Peak	100	357	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5455.60	65.31	74.00	-8.69	27.60	3.52	34.19	0.00	Peak	100	357	HORIZONTAL
2	5460.00	48.20	54.00	-5.80	10.49	3.52	34.19	0.00	Average	100	357	HORIZONTAL
3	5465.60	67.17	68.30	-1.13	29.46	3.52	34.19	0.00	Peak	100	357	HORIZONTAL
4	5545.60				78.89	3.55	34.29	0.00	Peak	100	357	HORIZONTAL
5	5546.00				67.33	3.55	34.29	0.00	Average	100	357	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5683.20				75.00	3.59	34.33	0.00	Peak	100	357	HORIZONTAL
2	5684.00				63.78	3.59	34.33	0.00	Average	100	357	HORIZONTAL
3	5727.00	66.94	68.30	-1.36	29.00	3.60	34.34	0.00	Peak	100	357	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5132.60	46.69	54.00	-7.31	9.62	3.43	33.64	0.00 Average	107	345	HORIZONTAL
2	5150.00	58.34	74.00	-15.66	21.24	3.43	33.67	0.00 Peak	107	345	HORIZONTAL
3	5261.20				71.88	3.46	33.85	0.00 Average	107	345	HORIZONTAL
4	5261.80				82.35	3.46	33.85	0.00 Peak	107	345	HORIZONTAL
5	5357.20	60.48	74.00	-13.52	22.96	3.49	34.03	0.00 Peak	107	345	HORIZONTAL
6	5373.40	48.26	54.00	-5.74	10.70	3.50	34.06	0.00 Average	107	345	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5301.60				73.87	3.48	33.94	0.00 Average	105	357	HORIZONTAL
2	5302.00				83.69	3.48	33.94	0.00 Peak	105	357	HORIZONTAL
3	5350.00	49.82	54.00	-4.18	12.30	3.49	34.03	0.00 Average	105	357	HORIZONTAL
4	5350.00	64.46	74.00	-9.54	26.94	3.49	34.03	0.00 Peak	105	357	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5318.40				70.60	3.48	33.97	0.00 Average	107	345	HORIZONTAL
2	5318.80				81.15	3.48	33.97	0.00 Peak	107	345	HORIZONTAL
3	5350.00	53.55	54.00	-0.45	16.03	3.49	34.03	0.00 Average	107	345	HORIZONTAL
4	5350.00	68.62	74.00	-5.38	31.10	3.49	34.03	0.00 Peak	107	345	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 2

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5459.80	46.79	54.00	-7.21	9.08	3.52	34.19	0.00	Average	102	347	HORIZONTAL
2	5460.00	62.63	74.00	-11.37	24.92	3.52	34.19	0.00	Peak	102	347	HORIZONTAL
3	5469.00	68.20	68.30	-0.10	30.47	3.52	34.21	0.00	Peak	102	347	HORIZONTAL
4	5501.20				70.58	3.54	34.25	0.00	Average	102	347	HORIZONTAL
5	5502.60				81.01	3.54	34.25	0.00	Peak	102	347	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5694.20				66.01	3.59	34.34	0.00	Average	106	9	HORIZONTAL
2	5702.80				78.05	3.59	34.34	0.00	Peak	106	9	HORIZONTAL
3	5725.20	68.10	68.30	-0.20	30.16	3.60	34.34	0.00	Peak	106	9	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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

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

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5149.52	46.86	54.00	-7.14	9.76	3.43	33.67	0.00	Average	125	29	VERTICAL
2	5150.00	58.49	74.00	-15.51	21.39	3.43	33.67	0.00	Peak	125	29	VERTICAL
3	5266.73				74.31	3.46	33.88	0.00	Average	125	29	VERTICAL
4	5267.21				84.57	3.46	33.88	0.00	Peak	125	29	VERTICAL
5	5350.00	47.42	54.00	-6.58	9.90	3.49	34.03	0.00	Average	125	29	VERTICAL
6	5350.00	60.04	74.00	-13.96	22.52	3.49	34.03	0.00	Peak	125	29	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5292.63				75.82	3.47	33.91	0.00	Average	109	322	VERTICAL
2	5293.59				86.05	3.47	33.91	0.00	Peak	109	322	VERTICAL
3	5350.00	51.42	54.00	-2.58	13.90	3.49	34.03	0.00	Average	109	322	VERTICAL
4	5350.96	70.54	74.00	-3.46	33.02	3.49	34.03	0.00	Peak	109	322	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5318.88				71.35	3.48	33.97	0.00	Average	124	148	VERTICAL
2	5319.04				81.90	3.48	33.97	0.00	Peak	124	148	VERTICAL
3	5350.00	53.50	54.00	-0.50	15.98	3.49	34.03	0.00	Average	124	148	VERTICAL
4	5351.12	69.17	74.00	-4.83	31.65	3.49	34.03	0.00	Peak	124	148	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5460.00	46.98	54.00	-7.02	9.25	3.52	34.21	0.00 Average	110	355	VERTICAL
2	5460.00	59.34	74.00	-14.66	21.61	3.52	34.21	0.00 Peak	110	355	VERTICAL
3	5469.68	67.72	68.30	-0.58	29.96	3.52	34.24	0.00 Peak	110	355	VERTICAL
4	5507.53				80.48	3.54	34.28	0.00 Peak	110	355	VERTICAL
5	5507.85				69.79	3.54	34.28	0.00 Average	110	355	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5694.07				77.46	3.59	34.34	0.00 Peak	113	320	VERTICAL
2	5707.69				66.47	3.60	34.34	0.00 Average	113	320	VERTICAL
3	5725.32	67.71	68.30	-0.59	29.77	3.60	34.34	0.00 Peak	113	320	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54, 62 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5267.44				72.02	3.46	33.88	0.00 Average	123	324	VERTICAL
2	5267.44				83.83	3.46	33.88	0.00 Peak	123	324	VERTICAL
3	5350.00	53.67	54.00	-0.33	16.15	3.49	34.03	0.00 Average	123	324	VERTICAL
4	5350.00	70.30	74.00	-3.70	32.78	3.49	34.03	0.00 Peak	123	324	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5307.12				62.82	3.48	33.94	0.00 Average	111	28	VERTICAL
2	5307.12				74.01	3.48	33.94	0.00 Peak	111	28	VERTICAL
3	5350.00	53.59	54.00	-0.41	16.07	3.49	34.03	0.00 Average	111	28	VERTICAL
4	5350.00	66.97	74.00	-7.03	29.45	3.49	34.03	0.00 Peak	111	28	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102,110,134 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5457.44	45.72	54.00	-8.28	7.99	3.52	34.21	0.00	Average	114	353	VERTICAL
2	5458.40	61.71	74.00	-12.29	23.98	3.52	34.21	0.00	Peak	114	353	VERTICAL
3	5470.00	68.03	68.30	-0.27	30.27	3.52	34.24	0.00	Peak	114	353	VERTICAL
4	5517.69				72.37	3.54	34.28	0.00	Peak	114	353	VERTICAL
5	5518.01				60.91	3.54	34.28	0.00	Average	114	353	VERTICAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5460.00	49.61	54.00	-4.39	11.88	3.52	34.21	0.00	Average	100	356	VERTICAL
2	5460.00	65.80	74.00	-8.20	28.07	3.52	34.21	0.00	Peak	100	356	VERTICAL
3	5469.36	67.93	68.30	-0.37	30.17	3.52	34.24	0.00	Peak	100	356	VERTICAL
4	5548.40				80.67	3.55	34.31	0.00	Peak	100	356	VERTICAL
5	5549.04				70.17	3.55	34.31	0.00	Average	100	356	VERTICAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5663.59				78.17	3.59	34.33	0.00	Peak	100	354	VERTICAL
2	5684.74				66.73	3.59	34.33	0.00	Average	100	354	VERTICAL
3	5725.00	68.09	68.30	-0.21	30.15	3.60	34.34	0.00	Peak	100	354	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5013.78	59.19	74.00	-14.81	22.37	3.39	33.43	0.00	Peak	122	323	VERTICAL
2	5026.60	46.77	54.00	-7.23	9.91	3.40	33.46	0.00	Average	122	323	VERTICAL
3	5258.40				77.31	3.46	33.85	0.00	Average	122	323	VERTICAL
4	5260.00				86.76	3.46	33.85	0.00	Peak	122	323	VERTICAL
5	5374.04	46.22	54.00	-7.78	8.66	3.50	34.06	0.00	Average	122	323	VERTICAL
6	5385.26	58.23	74.00	-15.77	20.64	3.50	34.09	0.00	Peak	122	323	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5306.09				76.53	3.48	33.94	0.00	Average	122	323	VERTICAL
2	5306.41				87.61	3.48	33.94	0.00	Peak	122	323	VERTICAL
3	5350.32	50.17	54.00	-3.83	12.65	3.49	34.03	0.00	Average	122	323	VERTICAL
4	5350.64	68.54	74.00	-5.46	31.02	3.49	34.03	0.00	Peak	122	323	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5318.24				74.19	3.48	33.97	0.00	Average	122	27	VERTICAL
2	5319.04				84.30	3.48	33.97	0.00	Peak	122	27	VERTICAL
3	5350.00	53.45	54.00	-0.55	15.93	3.49	34.03	0.00	Average	122	27	VERTICAL
4	5352.72	69.62	74.00	-4.38	32.10	3.49	34.03	0.00	Peak	122	27	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 3

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5459.68	47.26	54.00	-6.74	9.53	3.52	34.21	0.00	Average	120	353	VERTICAL
2	5460.00	61.18	74.00	-12.82	23.45	3.52	34.21	0.00	Peak	120	353	VERTICAL
3	5470.00	67.31	68.30	-0.99	29.55	3.52	34.24	0.00	Peak	120	353	VERTICAL
4	5498.88				81.93	3.53	34.26	0.00	Peak	120	353	VERTICAL
5	5499.04				71.27	3.53	34.26	0.00	Average	120	353	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5697.12				70.62	3.59	34.34	0.00	Average	126	357	VERTICAL
2	5697.92				81.62	3.59	34.34	0.00	Peak	126	357	VERTICAL
3	5727.08	68.21	68.30	-0.09	30.27	3.60	34.34	0.00	Peak	126	357	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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

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

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52, 60, 64 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Channel 52

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	5143.27	50.20	54.00	-3.80	12.72	4.34	0.00	33.14	Average	HORIZONTAL	114	271
2	5145.19	62.86	74.00	-11.14	25.38	4.34	0.00	33.14	Peak	HORIZONTAL	114	271
3 p	5252.31				86.86	4.40	0.00	33.30	Peak	HORIZONTAL	114	271
4 a	5252.79				76.49	4.40	0.00	33.30	Average	HORIZONTAL	114	271
5	5358.17	62.83	74.00	-11.17	24.90	4.47	0.00	33.46	Peak	HORIZONTAL	114	271
6	5373.56	50.47	54.00	-3.53	12.50	4.48	0.00	33.49	Average	HORIZONTAL	114	271

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 a	5306.09				77.32	4.44	0.00	33.38	Average	HORIZONTAL	127	271
2 p	5306.73				87.80	4.44	0.00	33.38	Peak	HORIZONTAL	127	271
3	5350.00	51.83	54.00	-2.17	13.90	4.47	0.00	33.46	Average	HORIZONTAL	127	271
4	5350.32	68.23	74.00	-5.77	30.30	4.47	0.00	33.46	Peak	HORIZONTAL	127	271

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5312.79				83.96	4.45	0.00	33.41	Peak	HORIZONTAL	125	271
2 a	5312.95				73.62	4.45	0.00	33.41	Average	HORIZONTAL	125	271
3	5350.16	68.64	74.00	-5.36	30.71	4.47	0.00	33.46	Peak	HORIZONTAL	125	271
4	5351.44	53.58	54.00	-0.42	15.65	4.47	0.00	33.46	Average	HORIZONTAL	125	271

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100,140 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Channel 100

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor			cm	deg
1	5457.76	60.46	74.00	-13.54	22.30	4.54	0.00	33.62	Peak	HORIZONTAL	121	271
2	5460.00	47.39	54.00	-6.61	9.23	4.54	0.00	33.62	Average	HORIZONTAL	121	271
3 !	5469.52	67.67	68.30	-0.63	29.47	4.55	0.00	33.65	Peak	HORIZONTAL	121	271
4 a	5491.83				68.77	4.56	0.00	33.67	Average	HORIZONTAL	121	271
5 p	5495.19				79.66	4.56	0.00	33.67	Peak	HORIZONTAL	121	271

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor			cm	deg
1 a	5693.27				66.52	4.70	0.00	34.27	Average	HORIZONTAL	106	270
2 p	5694.07				77.14	4.70	0.00	34.27	Peak	HORIZONTAL	106	270
3 !	5725.00	67.43	68.30	-0.87	28.34	4.72	0.00	34.37	Peak	HORIZONTAL	106	270

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54, 62 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Channel 54

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5266.47				82.57	4.42	0.00	33.33	Peak	HORIZONTAL	113	270
2 a	5267.44				71.09	4.42	0.00	33.33	Average	HORIZONTAL	113	270
3 i	5350.00	53.22	54.00	-0.78	15.29	4.47	0.00	33.46	Average	HORIZONTAL	113	270
4	5350.32	67.04	74.00	-6.96	29.11	4.47	0.00	33.46	Peak	HORIZONTAL	113	270

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5292.37				74.85	4.43	0.00	33.35	Peak	HORIZONTAL	130	271
2 a	5312.24				63.95	4.45	0.00	33.41	Average	HORIZONTAL	130	271
3	5350.00	66.68	74.00	-7.32	28.75	4.47	0.00	33.46	Peak	HORIZONTAL	130	271
4 i	5351.92	53.49	54.00	-0.51	15.56	4.47	0.00	33.46	Average	HORIZONTAL	130	271

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102,110,134 Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 4

Channel 102

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	5458.72	61.75	74.00	-12.25	23.59	4.54	0.00	33.62	Peak	HORIZONTAL	117	271
2	5460.00	46.32	54.00	-7.68	8.16	4.54	0.00	33.62	Average	HORIZONTAL	117	271
3	5470.00	67.62	68.30	-0.68	29.42	4.55	0.00	33.65	Peak	HORIZONTAL	117	271
4 p	5501.03				71.93	4.57	0.00	33.70	Peak	HORIZONTAL	117	271
5 a	5512.24				60.72	4.57	0.00	33.70	Average	HORIZONTAL	117	271

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	5460.00	68.04	74.00	-5.96	29.88	4.54	0.00	33.62	Peak	HORIZONTAL	119	270
2	5460.00	51.94	54.00	-2.06	13.78	4.54	0.00	33.62	Average	HORIZONTAL	119	270
3	5465.51	68.12	68.30	-0.18	29.92	4.55	0.00	33.65	Peak	HORIZONTAL	119	270
4 a	5541.35				70.45	4.59	0.00	33.80	Average	HORIZONTAL	119	270
5 p	5541.99				81.84	4.59	0.00	33.80	Peak	HORIZONTAL	119	270

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5667.12				79.87	4.68	0.00	34.22	Peak	HORIZONTAL	116	271
2 a	5667.76				68.52	4.68	0.00	34.22	Average	HORIZONTAL	116	271
3	5725.00	67.92	68.30	-0.38	28.83	4.72	0.00	34.37	Peak	HORIZONTAL	116	271

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52, 60, 64 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	5144.23	49.01	54.00	-4.99	11.53	4.34	0.00	33.14	Average	HORIZONTAL	114	269
2	5148.08	61.57	74.00	-12.43	24.09	4.34	0.00	33.14	Peak	HORIZONTAL	114	269
3 p	5255.67				87.98	4.40	0.00	33.30	Peak	HORIZONTAL	114	269
4 a	5265.77				77.70	4.42	0.00	33.33	Average	HORIZONTAL	114	269
5	5350.00	60.76	74.00	-13.24	22.83	4.47	0.00	33.46	Peak	HORIZONTAL	114	269
6	5350.00	48.93	54.00	-5.07	11.00	4.47	0.00	33.46	Average	HORIZONTAL	114	269

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5298.08				88.72	4.44	0.00	33.38	Peak	HORIZONTAL	127	270
2 a	5298.40				77.88	4.44	0.00	33.38	Average	HORIZONTAL	127	270
3	5350.00	65.95	74.00	-8.05	28.02	4.47	0.00	33.46	Peak	HORIZONTAL	127	270
4	5350.00	50.85	54.00	-3.15	12.92	4.47	0.00	33.46	Average	HORIZONTAL	127	270

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5321.28				84.14	4.45	0.00	33.41	Peak	HORIZONTAL	126	270
2 a	5321.28				74.20	4.45	0.00	33.41	Average	HORIZONTAL	126	270
3	5350.32	68.88	74.00	-5.12	30.95	4.47	0.00	33.46	Peak	HORIZONTAL	126	270
4	5350.80	53.14	54.00	-0.86	15.21	4.47	0.00	33.46	Average	HORIZONTAL	126	270

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100,140 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1	5457.44	64.34	74.00	-9.66	26.18	4.54	0.00	33.62	Peak	HORIZONTAL	120	271
2	5460.00	47.70	54.00	-6.30	9.54	4.54	0.00	33.62	Average	HORIZONTAL	120	271
3	5469.84	67.64	68.30	-0.66	29.44	4.55	0.00	33.65	Peak	HORIZONTAL	120	271
4 p	5502.40				83.23	4.57	0.00	33.70	Peak	HORIZONTAL	120	271
5 a	5503.05				71.77	4.57	0.00	33.70	Average	HORIZONTAL	120	271

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Remark	Pol/Phase	A/Pos	T/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			cm	deg
1 p	5696.80				80.08	4.70	0.00	34.27	Peak	HORIZONTAL	112	271
2 a	5697.12				68.73	4.70	0.00	34.27	Average	HORIZONTAL	112	271
3	5726.92	67.77	68.30	-0.53	28.68	4.72	0.00	34.37	Peak	HORIZONTAL	112	271

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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

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

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 52, 60, 64 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5147.00	55.39	74.00	-18.61	18.29	3.43	33.67	0.00	Peak	128	352	HORIZONTAL
2	5149.40	41.64	54.00	-12.36	4.54	3.43	33.67	0.00	Average	128	352	HORIZONTAL
3	5258.20	65.00			65.00	3.46	33.85	0.00	Average	128	352	HORIZONTAL
4	5260.60				75.66	3.46	33.85	0.00	Peak	128	352	HORIZONTAL
5	5373.40	43.62	54.00	-10.38	6.06	3.50	34.06	0.00	Average	128	352	HORIZONTAL
6	5379.40	56.32	74.00	-17.68	18.76	3.50	34.06	0.00	Peak	128	352	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5295.20				77.07	3.47	33.91	0.00	Peak	125	351	VERTICAL
2	5298.00				66.72	3.48	33.94	0.00	Average	125	351	VERTICAL
3	5350.00	44.48	54.00	-9.52	6.96	3.49	34.03	0.00	Average	125	351	VERTICAL
4	5354.40	59.39	74.00	-14.61	21.87	3.49	34.03	0.00	Peak	125	351	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5320.80				66.24	3.48	33.97	0.00	Average	121	349	HORIZONTAL
2	5323.40				77.77	3.49	33.97	0.00	Peak	121	349	HORIZONTAL
3	5350.00	53.40	54.00	-0.60	15.88	3.49	34.03	0.00	Average	121	349	HORIZONTAL
4	5352.20	70.40	74.00	-3.60	32.88	3.49	34.03	0.00	Peak	121	349	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 100,140 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5459.40	45.17	54.00	-8.83	7.46	3.52	34.19	0.00 Average	128	352	HORIZONTAL
2	5459.40	65.19	74.00	-8.81	27.48	3.52	34.19	0.00 Peak	128	352	HORIZONTAL
3	5470.00	67.49	68.30	-0.81	29.76	3.52	34.21	0.00 Peak	128	352	HORIZONTAL
4	5496.80				74.49	3.53	34.23	0.00 Peak	128	352	HORIZONTAL
5	5497.00				63.46	3.53	34.23	0.00 Average	128	352	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5698.00				71.55	3.59	34.34	0.00 Peak	119	350	VERTICAL
2	5698.60				60.35	3.59	34.34	0.00 Average	119	350	VERTICAL
3	5729.40	67.74	68.30	-0.56	29.80	3.60	34.34	0.00 Peak	119	350	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 54, 62 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 54

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5280.00				74.08	3.47	33.91	0.00 Peak	125	351	HORIZONTAL
2	5282.40				61.98	3.47	33.91	0.00 Average	125	351	HORIZONTAL
3	5350.00	49.79	54.00	-4.21	12.27	3.49	34.03	0.00 Average	125	351	HORIZONTAL
4	5353.20	68.29	74.00	-5.71	30.77	3.49	34.03	0.00 Peak	125	351	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5304.40				57.09	3.48	33.94	0.00 Average	128	352	HORIZONTAL
2	5323.60				69.00	3.49	33.97	0.00 Peak	128	352	HORIZONTAL
3	5350.00	52.44	54.00	-1.56	14.92	3.49	34.03	0.00 Average	128	352	HORIZONTAL
4	5350.80	73.56	74.00	-0.44	36.04	3.49	34.03	0.00 Peak	128	352	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5310 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 102,110,134 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 102

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	5460.00	44.12	54.00	-9.88	6.41	3.52	34.19	0.00 Average	128	353	HORIZONTAL
2	5460.00	59.20	74.00	-14.80	21.49	3.52	34.19	0.00 Peak	128	353	HORIZONTAL
3	5470.00	68.25	68.30	-0.05	30.52	3.52	34.21	0.00 Peak	128	353	HORIZONTAL
4	5503.60				53.26	3.54	34.25	0.00 Average	128	353	HORIZONTAL
5	5504.40				64.92	3.54	34.25	0.00 Peak	128	353	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5510 MHz.

Channel 110

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	5458.80	64.40	74.00	-9.60	26.69	3.52	34.19	0.00 Peak	126	348	HORIZONTAL
2	5460.00	48.46	54.00	-5.54	10.75	3.52	34.19	0.00 Average	126	348	HORIZONTAL
3	5468.80	68.02	68.30	-0.28	30.29	3.52	34.21	0.00 Peak	126	348	HORIZONTAL
4	5544.40				74.68	3.55	34.29	0.00 Peak	126	348	HORIZONTAL
5	5548.40				62.36	3.55	34.29	0.00 Average	126	348	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	5664.80				68.98	3.59	34.33	0.00 Peak	128	352	VERTICAL
2	5665.60				57.90	3.59	34.33	0.00 Average	128	352	VERTICAL
3	5728.20	67.92	68.30	-0.38	29.98	3.60	34.34	0.00 Peak	128	352	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 52, 60, 64 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 52

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5129.00	55.70	74.00	-18.30	18.63	3.43	33.64	0.00	Peak	128	353	VERTICAL
2	5132.60	42.69	54.00	-11.31	5.62	3.43	33.64	0.00	Average	128	353	VERTICAL
3	5254.00				77.22	3.46	33.85	0.00	Peak	128	353	VERTICAL
4	5258.80				65.34	3.46	33.85	0.00	Average	128	353	VERTICAL
5	5373.40	43.84	54.00	-10.16	6.28	3.50	34.06	0.00	Average	128	353	VERTICAL
6	5374.00	55.89	74.00	-18.11	18.33	3.50	34.06	0.00	Peak	128	353	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

Channel 60

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5298.80				74.58	3.48	33.94	0.00	Peak	129	353	HORIZONTAL
2	5300.60				64.76	3.48	33.94	0.00	Average	129	353	HORIZONTAL
3	5350.00	58.15	74.00	-15.85	20.63	3.49	34.03	0.00	Peak	129	353	HORIZONTAL
4	5387.20	44.03	54.00	-9.97	6.44	3.50	34.09	0.00	Average	129	353	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

Channel 64

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5320.40				67.01	3.48	33.97	0.00	Average	124	348	HORIZONTAL
2	5324.80				77.55	3.49	33.97	0.00	Peak	124	348	HORIZONTAL
3	5350.00	53.77	54.00	-0.23	16.25	3.49	34.03	0.00	Average	124	348	HORIZONTAL
4	5350.20	71.62	74.00	-2.38	34.10	3.49	34.03	0.00	Peak	124	348	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a Ch 100,140 Chain 1 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 5

Channel 100

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5459.60	62.04	74.00	-11.96	24.33	3.52	34.19	0.00	Peak	128	353	HORIZONTAL
2	5460.00	43.92	54.00	-10.08	6.21	3.52	34.19	0.00	Average	128	353	HORIZONTAL
3	5469.80	68.24	68.30	-0.06	30.51	3.52	34.21	0.00	Peak	128	353	HORIZONTAL
4	5497.80				62.44	3.53	34.23	0.00	Average	128	353	HORIZONTAL
5	5503.00				74.01	3.54	34.25	0.00	Peak	128	353	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5696.80				73.69	3.59	34.34	0.00	Peak	119	351	VERTICAL
2	5702.40				61.49	3.59	34.34	0.00	Average	119	351	VERTICAL
3	5726.40	67.45	68.30	-0.85	29.51	3.60	34.34	0.00	Peak	119	351	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note:

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

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

4.8. Frequency Stability Measurement

4.8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or $\pm 20\text{ppm}$ (IEEE 802.11 specification).

4.8.2. Measuring Instruments and Setting

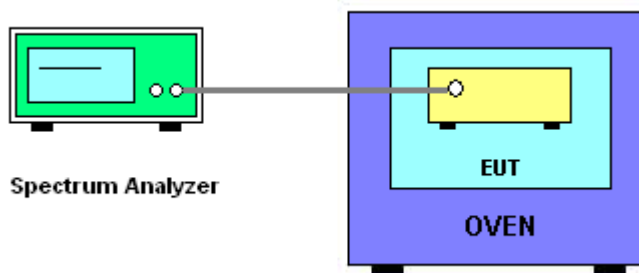
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than $\pm 20\text{ppm}$ (IEEE 802.11 specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature rule is $-30^\circ\text{C} \sim 50^\circ\text{C}$.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Test Mode : Mode 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5299.9404
110.00	5299.9372
93.50	5299.9368
Max. Deviation (MHz)	0.063200
Max. Deviation (ppm)	11.92

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9532
-20	5299.9512
-10	5299.9484
0	5299.9452
10	5299.9412
20	5299.9370
30	5299.9187
40	5299.9161
50	5299.9132
Max. Deviation (MHz)	0.086800
Max. Deviation (ppm)	16.3774

Test Mode : Mode 2
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5299.9404
110.00	5299.9372
93.50	5299.9368
Max. Deviation (MHz)	0.063200
Max. Deviation (ppm)	11.92

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9532
-20	5299.9512
-10	5299.9484
0	5299.9452
10	5299.9412
20	5299.9370
30	5299.9187
40	5299.9161
50	5299.9132
Max. Deviation (MHz)	0.086800
Max. Deviation (ppm)	16.3774

Test Mode : Mode 3
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5299.9782
110.00	5299.9758
93.50	5299.9724
Max. Deviation (MHz)	0.027600
Max. Deviation (ppm)	5.21

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9841
-20	5299.9832
-10	5299.9802
0	5299.9798
10	5299.9748
20	5299.9753
30	5299.9784
40	5299.9793
50	5299.9780
Max. Deviation (MHz)	0.025200
Max. Deviation (ppm)	4.7547

Test Mode : Mode 4
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5299.9404
110.00	5299.9372
93.50	5299.9368
Max. Deviation (MHz)	0.063200
Max. Deviation (ppm)	11.92

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9532
-20	5299.9512
-10	5299.9484
0	5299.9452
10	5299.9412
20	5299.9370
30	5299.9187
40	5299.9161
50	5299.9132
Max. Deviation (MHz)	0.086800
Max. Deviation (ppm)	16.3774

Test Mode : Mode 5
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5300
126.50	5299.9408
110.00	5299.9382
93.50	5299.9361
Max. Deviation (MHz)	0.063900
Max. Deviation (ppm)	12.06

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5300
-30	5299.9534
-20	5299.9518
-10	5299.9520
0	5299.9466
10	5299.9422
20	5299.9388
30	5299.9210
40	5299.9184
50	5299.9142
Max. Deviation (MHz)	0.085800
Max. Deviation (ppm)	16.1887

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100377	9kHz ~ 2.75GHz	Sep. 14, 2011	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Nov. 14, 2011	Conduction (CO01-CB)
V- LISN	Schwarzbeck	NSLK 8127	8127-478	9K ~ 30MHz	Jun. 22, 2012	Conduction (CO01-CB)
PULSE LIMITER	R&S	ESH3-Z2	100430	9K~30MHz	Feb. 03, 2012	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	0.15MHz~30MHz	Dec. 4, 2011	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	Jan. 11, 2012	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 25, 2011	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBEAK	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Nov. 22, 2011	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Nov. 29, 2011	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26.5GHz ~ 40GHz	Jul. 31, 2011	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS 30	100355	9KHz ~ 2.75GHz	Mar. 20, 2012	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9 kHz - 30 MHz	Sep. 09, 2010*	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N/A	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO2000	N/A	1 m - 4 m	N/A	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz - 1 GHz	Nov. 17, 2011	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz ~ 26.5 GHz	Nov. 17, 2011	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz ~ 26.5 GHz	Nov. 17, 2011	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-3	N/A	1 GHz - 40 GHz	Nov. 17, 2011	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-4	N/A	1 GHz - 40 GHz	Nov. 17, 2011	Radiation (03CH01-CB)
Signal analyzer	R&S	FSV40	100979	9KHz~40GHz	Sep. 26, 2011	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 05, 2012	Conducted (TH01-CB)
Thermo-Hygro Meter	N/A	HC 520	#1	15~70 degree	Nov. 02, 2011	Conducted (TH01-CB)
Signal Generator	R&S	SMR40	100302	10MHz-40GHz	Nov. 22, 2011	Conducted (TH01-CB)
RF Power Divider	HP	11636A	00306	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)
RF Power Splitter	Anaren	44100	1839	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Power Splitter	Anaren	42100	17930	2GHz ~ 18GHz	N/A	Conducted (TH01-CB)
Signal generator	R&S	SMU200A	102782	10MHz-40GHz	Jun. 07, 2012	Conducted (TH01-CB)
Horn Antenna	COM-POWER	AH-118	071187	1GHz – 18GHz	May 09, 2012	Conducted (TH01-CB)
Horn Antenna	COM-POWER	AH-118	071042	1GHz – 18GHz	Nov. 01, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-7	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-8	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-9	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-10	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-11	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-12	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-13	-	1 GHz – 26.5 GHz	Nov. 17, 2011	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	0917223	300MHz~40GHz	Nov. 01, 2011	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Nov. 01, 2011	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.

6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION



Certificate No. : L1190-110702

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Road, Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,
Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2010 to January 09, 2013
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities



Jay-San Chen
President, Taiwan Accreditation Foundation
Date : July 02, 2011

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix