

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n / Mode 9

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 (2TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	6.47	13	Complies
40	5200 MHz	5.68	13	Complies
48	5240 MHz	5.03	13	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 (2TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
38	5190 MHz	4.68	13	Complies
46	5230 MHz	4.46	13	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a / Mode 9

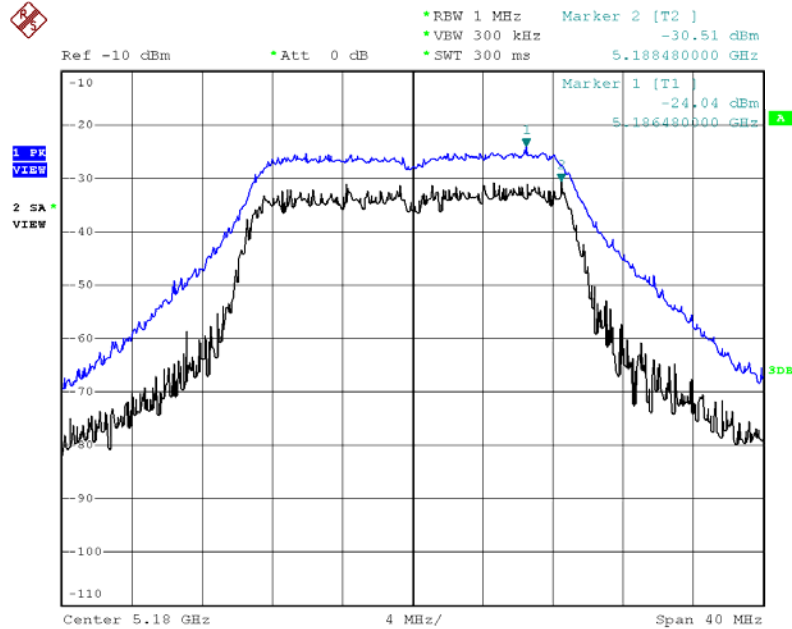
Configuration IEEE 802.11a / Chain 1 + Chain 2 (2TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	5.16	13	Complies
40	5200 MHz	5.15	13	Complies
48	5240 MHz	5.28	13	Complies

Note: All the test values were listed in the report.

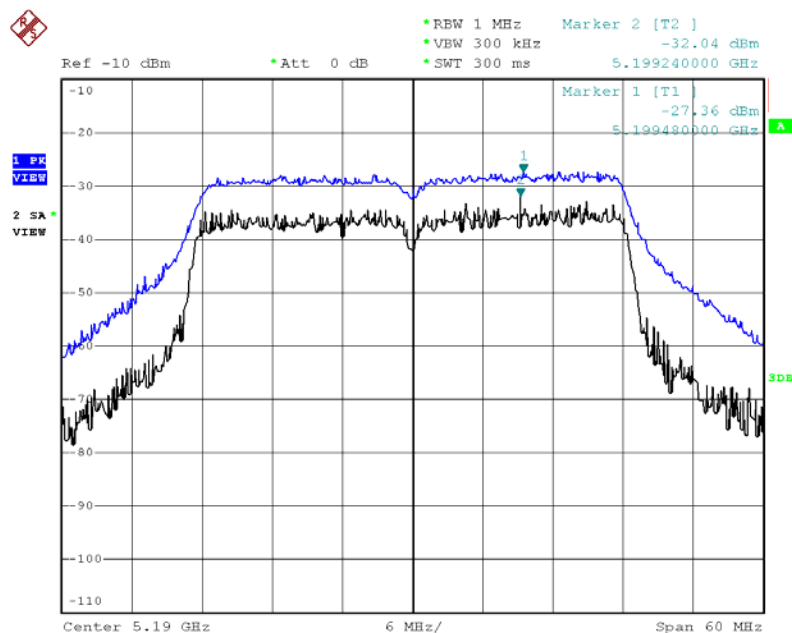
For plots, only the channel with maximum results was shown.

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5180 MHz / Mode 9 (2TX, 2RX)



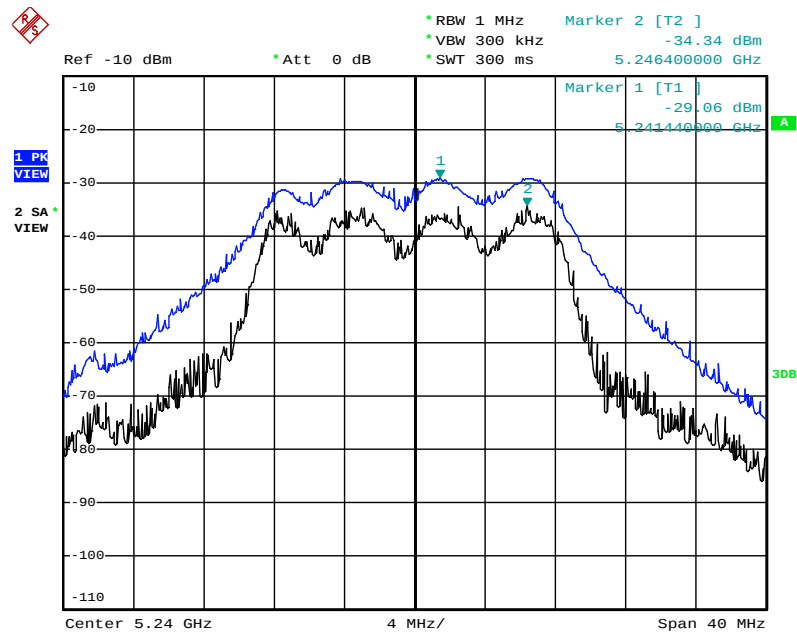
Date: 15.DEC.2011 14:45:31

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5190 MHz / Mode 9 (2TX, 2RX)



Date: 15.DEC.2011 14:37:17

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5240 MHz / Mode 9 (2TX, 2RX)



Date: 11.JAN.2012 17:47:34

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n / Mode 12

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	9.74	13	Complies
40	5200 MHz	9.34	13	Complies
48	5240 MHz	7.70	13	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
38	5190 MHz	9.83	13	Complies
46	5230 MHz	12.85	13	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a / Mode 12

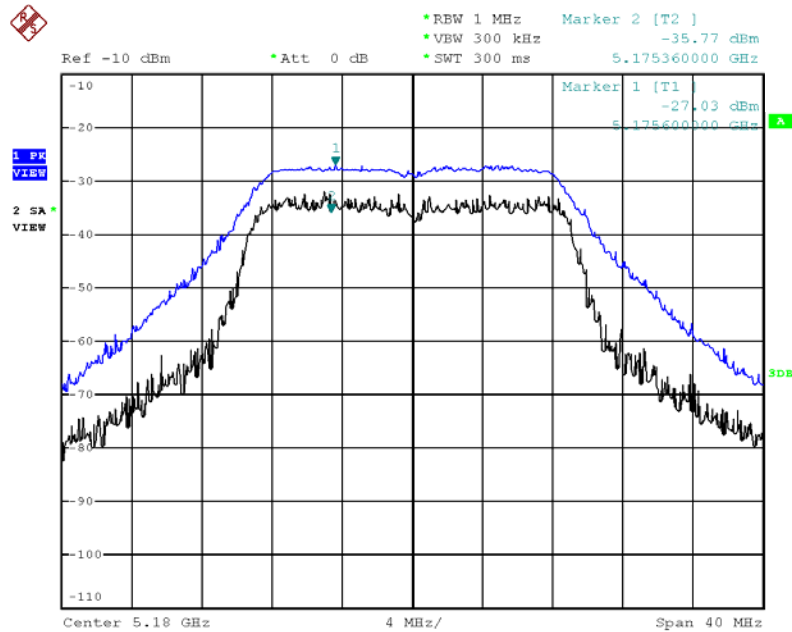
Configuration IEEE 802.11a / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	9.03	13	Complies
40	5200 MHz	10.06	13	Complies
48	5240 MHz	9.89	13	Complies

Note: All the test values were listed in the report.

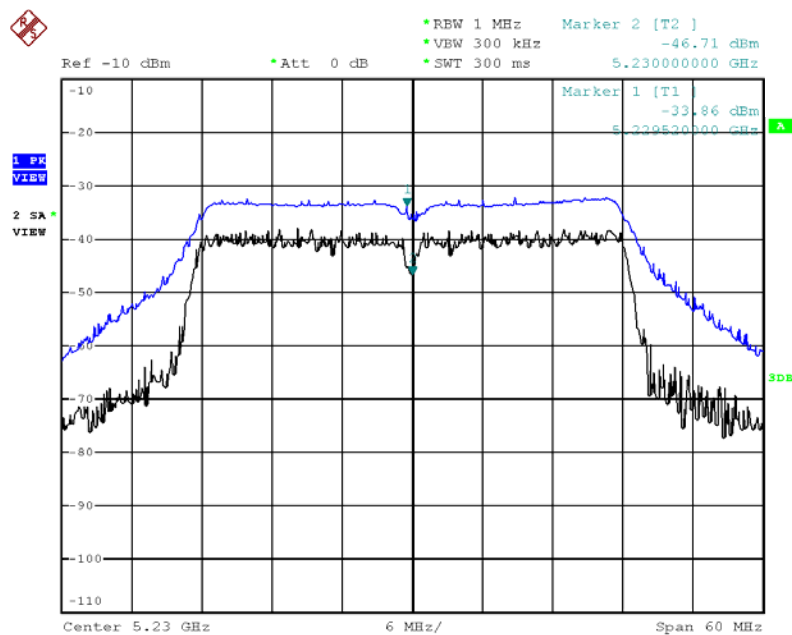
For plots, only the channel with maximum results was shown.

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5180 MHz / Mode 12 (1TX, 2RX)



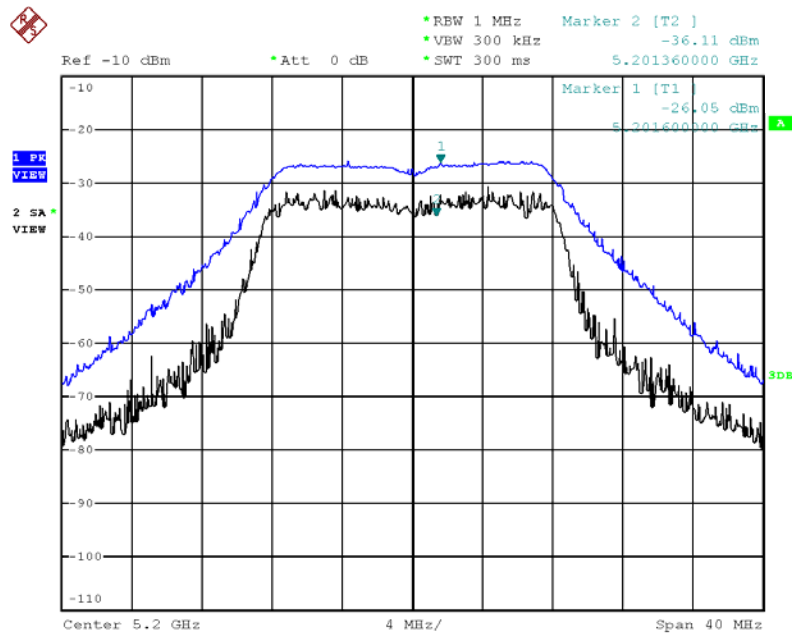
Date: 8.FEB.2012 23:02:56

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5230 MHz / Mode 12 (1TX, 2RX)



Date: 8.FEB.2012 22:57:56

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 / 5200 MHz / Mode 12 (1TX, 2RX)



Date: 8.FEB.2012 23:05:38

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n / Mode 15

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	10.67	13	Complies
40	5200 MHz	9.26	13	Complies
48	5240 MHz	10.71	13	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
38	5190 MHz	12.21	13	Complies
46	5230 MHz	11.05	13	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a / Mode 15

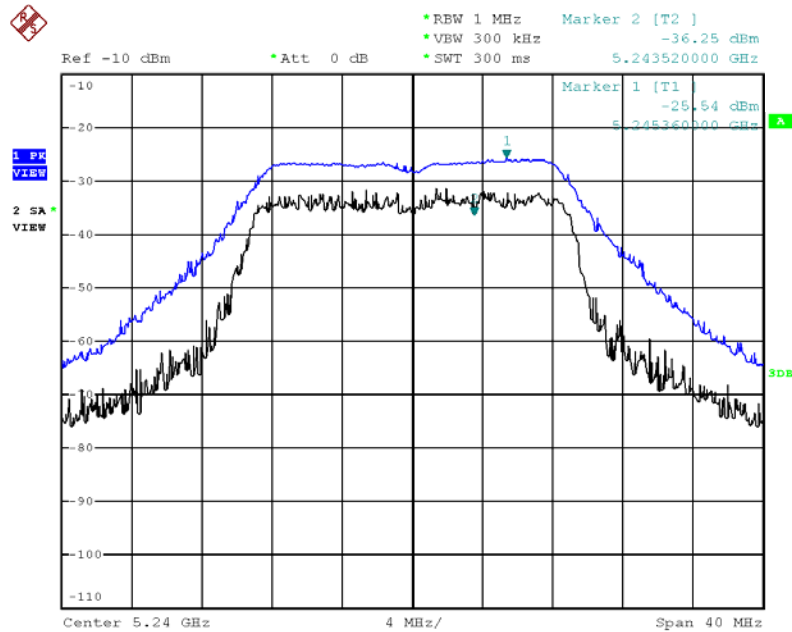
Configuration IEEE 802.11a / Chain 1 (1TX, 2RX)

Channel	Frequency	Peak Excursion (dB)	Max. Limit (dB)	Result
36	5180 MHz	10.43	13	Complies
40	5200 MHz	9.66	13	Complies
48	5240 MHz	9.69	13	Complies

Note: All the test values were listed in the report.

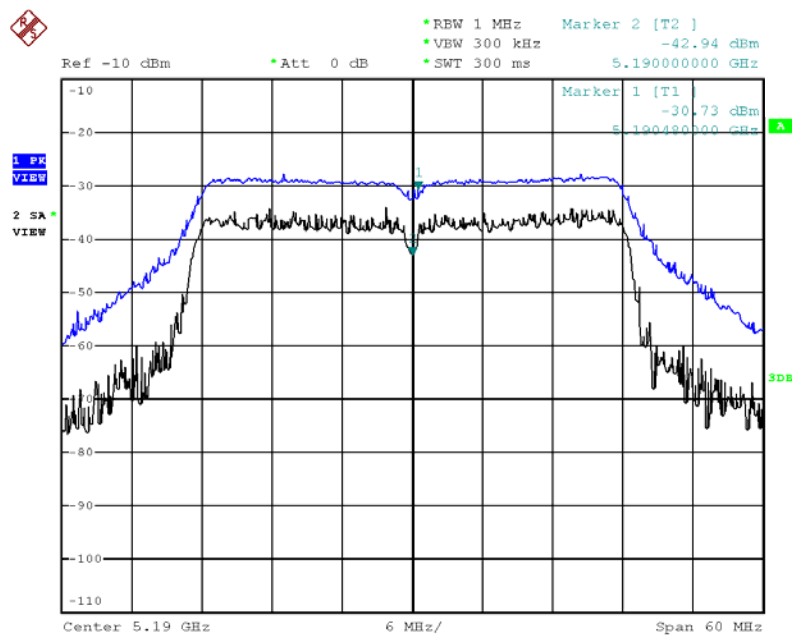
For plots, only the channel with maximum results was shown.

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5240 MHz / Mode 15 (1TX, 2RX)



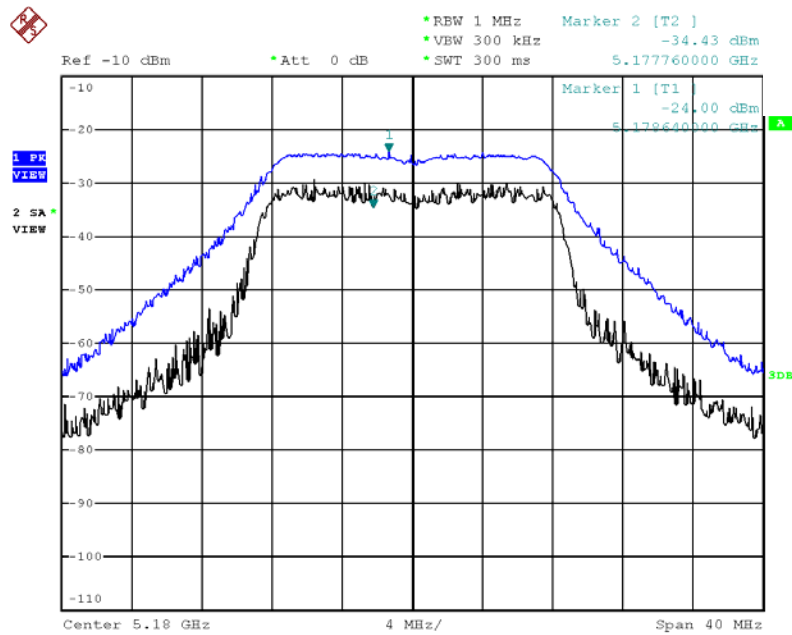
Date: 8.FEB.2012 23:15:05

Peak Excursion Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5190 MHz / Mode 15 (1TX, 2RX)



Date: 8.FEB.2012 23:17:59

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 / 5180 MHz / Mode 15 (1TX, 2RX)



Date: 8.FEB.2012 23:11:36

4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 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

4.6.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	40 GHz
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for peak

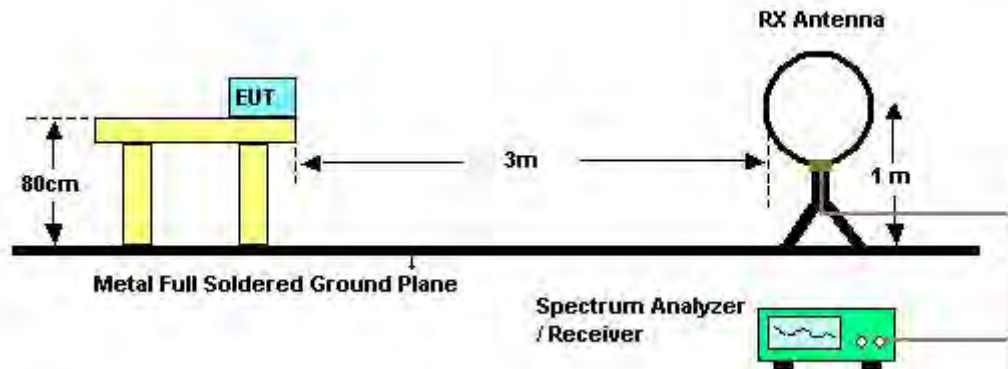
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RB 120kHz for QP

4.6.3. Test Procedures

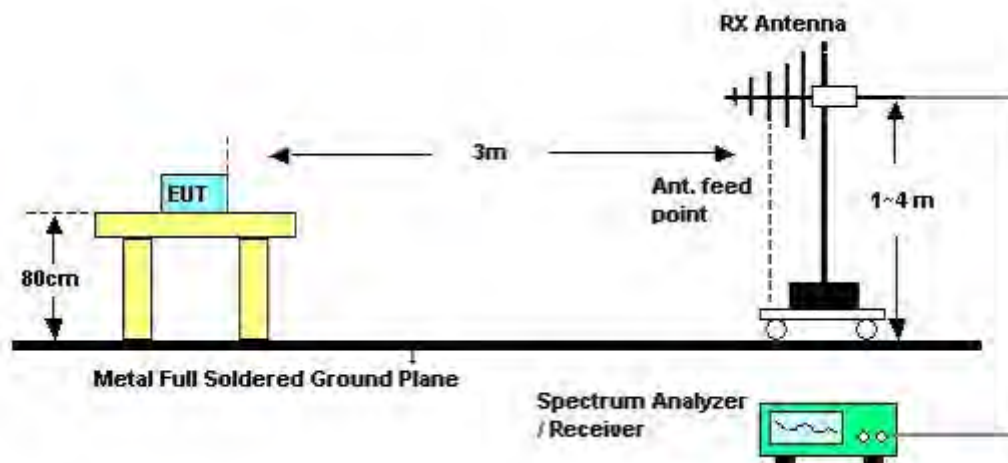
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.6.4. Test Setup Layout

For radiated emissions below 1GHz



For radiated emissions above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	56%
Test Engineer	Ted Chiu	Configurations	Normal Link
Test Date	Nov. 23, 2011		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

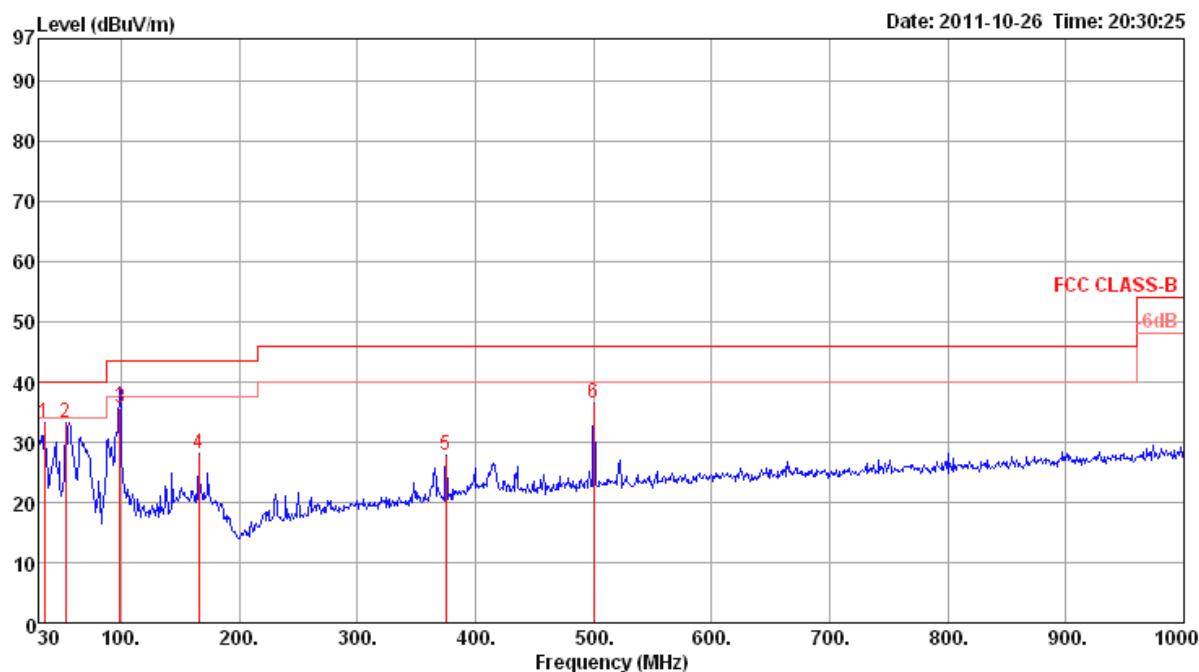
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

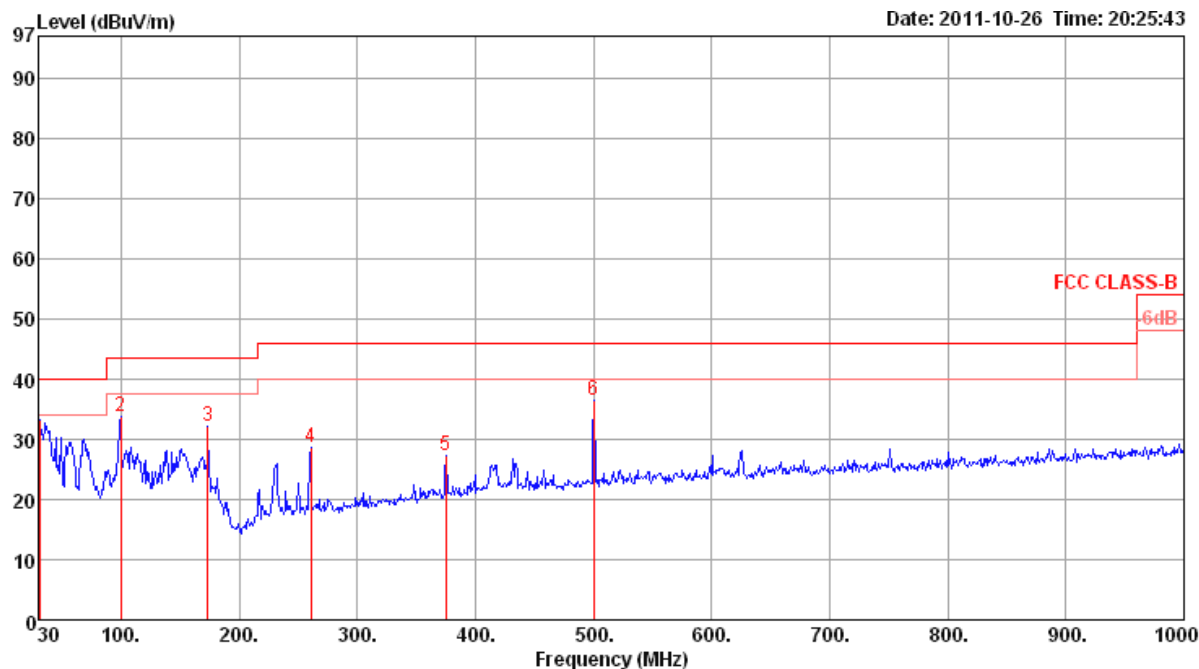
Temperature	21°C	Humidity	59%
Test Engineer	Benson Peng	Configurations	Normal Link
Test Mode	Mode 3		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	
1	34.85	33.18	40.00	-6.82	44.40	0.50	16.08	27.80	Peak	100	0	HORIZONTAL
2	53.28	33.19	40.00	-6.81	52.22	0.76	8.00	27.79	Peak	100	0	HORIZONTAL
3	98.87	35.56	43.50	-7.94	51.20	1.18	10.79	27.61	QP	210	5	HORIZONTAL
4	165.80	28.09	43.50	-15.41	41.36	1.53	12.47	27.27	Peak	100	0	HORIZONTAL
5	375.32	27.77	46.00	-18.23	37.55	2.25	15.40	27.43	Peak	100	0	HORIZONTAL
6	500.45	36.43	46.00	-9.57	44.20	2.70	17.63	28.10	Peak	100	0	HORIZONTAL

Vertical



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	30.97	33.22	40.00	-6.78	42.30	0.50	18.22	27.80	400	0	VERTICAL
2	99.84	33.75	43.50	-9.75	49.16	1.20	10.99	27.60	400	0	VERTICAL
3	173.56	32.22	43.50	-11.28	44.83	1.57	13.05	27.23	400	0	VERTICAL
4	260.86	28.75	46.00	-17.25	40.89	1.94	12.90	26.98	400	0	VERTICAL
5	375.32	27.39	46.00	-18.61	37.17	2.25	15.40	27.43	400	0	VERTICAL
6	500.45	36.48	46.00	-9.52	44.25	2.70	17.63	28.10	400	0	VERTICAL

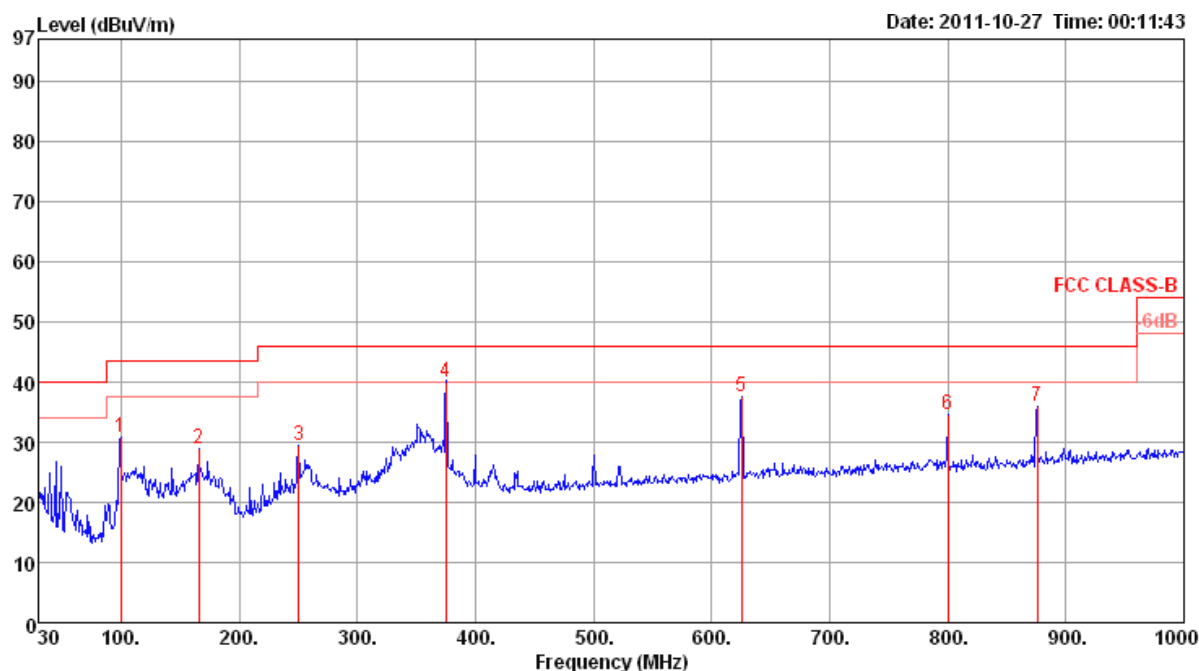
Note:

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

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

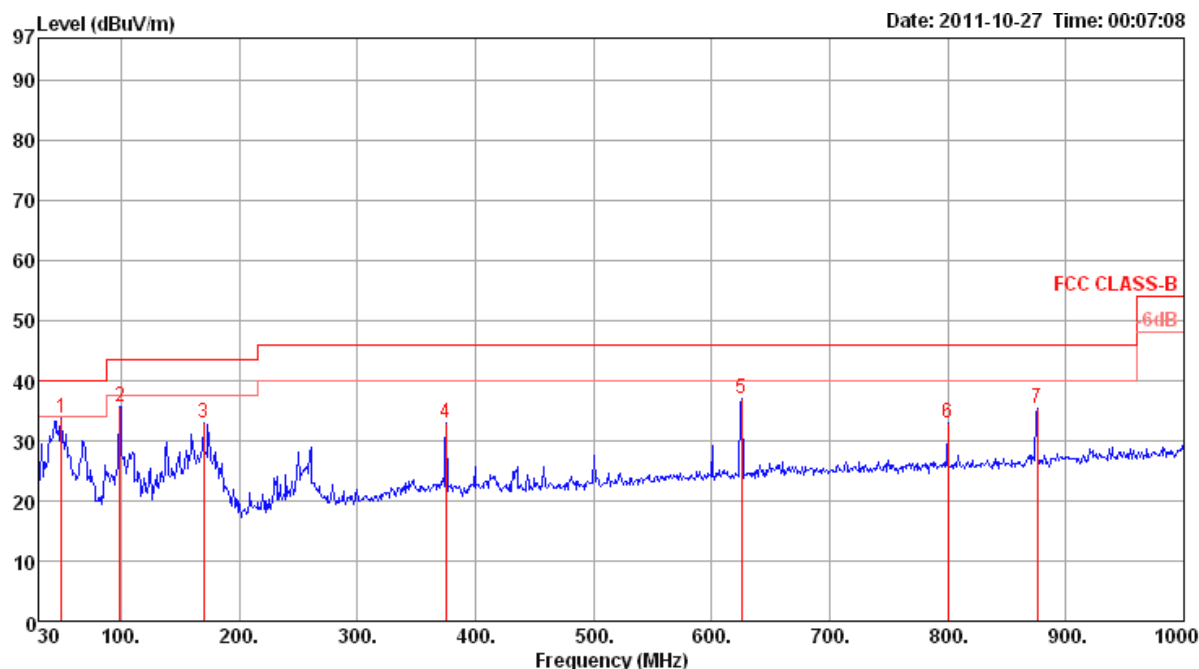
Temperature	21°C	Humidity	59%
Test Engineer	Benson Peng	Configurations	Normal Link
Test Mode	Mode 6		

Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB			Pol/Phase
1	99.84	30.69	43.50	-12.81	46.10	1.20	10.99	27.60	Peak	100	0 HORIZONTAL
2	165.80	28.79	43.50	-14.71	42.06	1.53	12.47	27.27	Peak	100	0 HORIZONTAL
3	250.19	29.41	46.00	-16.59	41.74	1.90	12.77	27.00	Peak	100	0 HORIZONTAL
4	375.32	39.93	46.00	-6.07	49.71	2.25	15.40	27.43	QP	100	50 HORIZONTAL
5	625.58	37.51	46.00	-8.49	43.68	3.05	18.85	28.07	Peak	100	0 HORIZONTAL
6	800.18	34.63	46.00	-11.37	39.16	3.30	19.77	27.60	Peak	100	0 HORIZONTAL
7	875.84	35.96	46.00	-10.04	39.56	3.50	20.35	27.45	Peak	100	0 HORIZONTAL

Vertical



	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	49.40	33.70	40.00	-6.30	51.97	0.70	8.83	27.80 Peak	400	0	VERTICAL
2	98.87	35.58	43.50	-7.92	51.22	1.18	10.79	27.61 Peak	400	0	VERTICAL
3	169.68	33.06	43.50	-10.44	46.00	1.55	12.76	27.25 Peak	400	0	VERTICAL
4	375.32	33.09	46.00	-12.91	42.87	2.25	15.40	27.43 Peak	400	0	VERTICAL
5	625.58	37.02	46.00	-8.98	43.19	3.05	18.85	28.07 Peak	400	0	VERTICAL
6	800.18	32.84	46.00	-13.16	37.37	3.30	19.77	27.60 Peak	400	0	VERTICAL
7	875.84	35.31	46.00	-10.69	38.91	3.50	20.35	27.45 Peak	400	0	VERTICAL

Note:

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

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

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

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 + Chain 2
Test Date	Jan. 17, 2012	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15533.60	52.87	74.00	-21.13	44.36	6.13	37.67	35.29	Peak	101	195	HORIZONTAL
2	15539.84	39.67	54.00	-14.33	31.20	6.13	37.65	35.31	Average	101	195	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15544.08	53.01	74.00	-20.99	44.50	6.13	37.69	35.31	Peak	101	335	VERTICAL
2	15546.76	39.25	54.00	-14.75	30.74	6.13	37.69	35.31	Average	101	335	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 + Chain 2(2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

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	15594.12	61.43	74.00	-12.57	53.04	6.13	37.60	35.34	Peak	114	347	HORIZONTAL
2	15594.84	44.61	54.00	-9.39	36.22	6.13	37.60	35.34	Average	114	347	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	15594.76	40.35	54.00	-13.65	31.96	6.13	37.60	35.34	Average	101	114	VERTICAL
2	15606.08	53.66	74.00	-20.34	45.29	6.13	37.58	35.34	Peak	101	114	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg
1	15715.04	55.85	74.00	-18.15	47.61	6.14	37.48	35.38	Peak	100	133 HORIZONTAL
2	15715.96	41.31	54.00	-12.69	33.07	6.14	37.48	35.38	Average	100	133 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
1	15724.72	39.51	54.00	-14.49	31.28	6.14	37.48	35.39	Average	100	340 VERTICAL
2	15727.64	52.45	74.00	-21.55	44.24	6.14	37.46	35.39	Peak	100	340 VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

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	15569.36	49.58	74.00	-24.42	41.15	6.13	37.63	35.33	Peak	100	165	HORIZONTAL
2	15569.92	36.91	54.00	-17.09	28.48	6.13	37.63	35.33	Average	100	165	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15566.76	36.62	54.00	-17.38	28.17	6.13	37.65	35.33	Average	144	232	VERTICAL
2	15579.28	50.32	74.00	-23.68	41.91	6.13	37.61	35.33	Peak	144	232	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

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	15690.00	52.00	74.00	-22.00	43.72	6.14	37.51	35.37	Peak	113	134	HORIZONTAL
2	15693.72	38.81	54.00	-15.19	30.56	6.14	37.49	35.38	Average	113	134	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	15695.60	37.32	54.00	-16.68	29.07	6.14	37.49	35.38	Average	114	323	VERTICAL
2	15695.92	50.17	74.00	-23.83	41.92	6.14	37.49	35.38	Peak	114	323	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36 / Chain 1 + Chain 2
Test Date	Dec. 23, 2011	Test Mode	Mode 3 (2TX, 2RX)

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	15537.52	56.12	74.00	-17.88	47.61	6.13	37.67	35.29	Peak	101	194	HORIZONTAL
2	15542.26	40.37	54.00	-13.63	31.90	6.13	37.65	35.31	Average	101	194	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	15540.38	51.80	74.00	-22.20	43.29	6.13	37.69	35.31	Peak	100	112	VERTICAL
2	15540.41	38.35	54.00	-15.65	29.84	6.13	37.69	35.31	Average	100	112	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 40 / Chain 1 + Chain 2
Test Date	Dec. 23, 2011	Test Mode	Mode 3 (2TX, 2RX)

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	15597.20	48.55	54.00	-5.45	40.16	6.13	37.60	35.34	Average	101	194	HORIZONTAL
2	15597.32	65.68	74.00	-8.32	57.29	6.13	37.60	35.34	Peak	101	194	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	15600.68	56.72	74.00	-17.28	48.33	6.13	37.60	35.34	Peak	100	28	VERTICAL
2	15605.56	41.65	54.00	-12.35	33.26	6.13	37.60	35.34	Average	100	28	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 48 / Chain 1 + Chain 2
Test Date	Dec. 23, 2011	Test Mode	Mode 3 (2TX, 2RX)

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	15719.04	44.26	54.00	-9.74	36.03	6.14	37.48	35.39	Average	100	193	HORIZONTAL
2	15724.76	60.12	74.00	-13.88	51.89	6.14	37.48	35.39	Peak	100	193	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	15715.72	39.58	54.00	-14.42	31.34	6.14	37.48	35.38	Average	100	170	VERTICAL
2	15716.04	55.42	74.00	-18.58	47.18	6.14	37.48	35.38	Peak	100	170	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	
1	15538.70	50.84	74.00	-23.16	42.37	6.13	37.65	35.31	Peak	100	259	HORIZONTAL
2	15540.15	38.75	54.00	-15.25	30.28	6.13	37.65	35.31	Average	100	259	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	
1	15538.00	38.97	54.00	-15.03	30.46	6.13	37.69	35.31	Average	100	101	VERTICAL
2	15544.67	51.42	74.00	-22.58	42.91	6.13	37.69	35.31	Peak	100	101	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15595.08	51.30	74.00	-22.70	42.91	6.13	37.60	35.34	Peak	100	108	HORIZONTAL
2	15598.97	38.48	54.00	-15.52	30.09	6.13	37.60	35.34	Average	100	108	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	15595.58	38.65	54.00	-15.35	30.26	6.13	37.60	35.34	Average	100	236	VERTICAL
2	15595.60	51.29	74.00	-22.71	42.90	6.13	37.60	35.34	Peak	100	236	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15717.05	50.85	74.00	-23.15	42.62	6.14	37.48	35.39	Peak	100	235	HORIZONTAL
2	15720.11	38.06	54.00	-15.94	29.83	6.14	37.48	35.39	Average	100	235	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	15718.46	50.42	74.00	-23.58	42.19	6.14	37.48	35.39	Peak	100	179	VERTICAL
2	15722.02	38.13	54.00	-15.87	29.90	6.14	37.48	35.39	Average	100	179	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15547.20	39.89	54.00	-14.11	31.42	6.13	37.65	35.31	Average	100	142 HORIZONTAL
2	15547.40	52.77	74.00	-21.23	44.30	6.13	37.65	35.31	Peak	100	142 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	15539.60	39.83	54.00	-14.17	31.32	6.13	37.69	35.31	Average	100	212 VERTICAL
2	15541.40	52.57	74.00	-21.43	44.06	6.13	37.69	35.31	Peak	100	212 VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15601.70	40.23	54.00	-13.77	31.84	6.13	37.60	35.34	Average	100	142	HORIZONTAL
2	15602.00	53.24	74.00	-20.76	44.85	6.13	37.60	35.34	Peak	100	142	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15596.50	40.54	54.00	-13.46	32.15	6.13	37.60	35.34	Average	100	233	VERTICAL
2	15601.90	52.78	74.00	-21.22	44.39	6.13	37.60	35.34	Peak	100	233	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15713.50	39.62	54.00	-14.38	31.38	6.14	37.48	35.38 Average	100	304	HORIZONTAL
2	15724.60	52.66	74.00	-21.34	44.43	6.14	37.48	35.39 Peak	100	304	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	15710.80	39.76	54.00	-14.24	31.52	6.14	37.48	35.38 Average	100	204	VERTICAL
2	15718.90	52.23	74.00	-21.77	44.00	6.14	37.48	35.39 Peak	100	204	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15567.48	51.63	74.00	-22.37	43.20	6.13	37.63	35.33	Peak	100	113	HORIZONTAL
2	15573.49	38.34	54.00	-15.66	29.93	6.13	37.61	35.33	Average	100	113	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	15565.39	50.52	74.00	-23.48	42.07	6.13	37.65	35.33	Peak	100	294	VERTICAL
2	15571.12	38.38	54.00	-15.62	29.93	6.13	37.65	35.33	Average	100	294	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15686.44	38.36	54.00	-15.64	30.08	6.14	37.51	35.37	Average	100	308	HORIZONTAL
2	15690.44	51.48	74.00	-22.52	43.20	6.14	37.51	35.37	Peak	100	308	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	15685.29	38.43	54.00	-15.57	30.15	6.14	37.51	35.37	Average	100	161	VERTICAL
2	15688.04	50.96	74.00	-23.04	42.68	6.14	37.51	35.37	Peak	100	161	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15566.18	52.41	74.00	-21.59	43.98	6.13	37.63	35.33	100	164	HORIZONTAL
2	15570.26	39.76	54.00	-14.24	31.33	6.13	37.63	35.33	100	164	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	15570.88	39.83	54.00	-14.17	31.38	6.13	37.65	35.33	100	255	VERTICAL
2	15571.44	52.72	74.00	-21.28	44.27	6.13	37.65	35.33	100	255	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15689.78	52.76	74.00	-21.24	44.48	6.14	37.51	35.37	Peak	100	255	HORIZONTAL
2	15690.66	39.73	54.00	-14.27	31.46	6.14	37.51	35.38	Average	100	255	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	15690.02	40.00	54.00	-14.00	31.72	6.14	37.51	35.37	Average	100	156	VERTICAL
2	15690.96	52.93	74.00	-21.07	44.66	6.14	37.51	35.38	Peak	100	156	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 36 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 6

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	15539.40	36.93	54.00	-17.07	28.46	6.13	37.65	35.31	Average	100	35	HORIZONTAL
2	15540.79	51.06	74.00	-22.94	42.59	6.13	37.65	35.31	Peak	100	35	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	15539.06	37.15	54.00	-16.85	28.64	6.13	37.69	35.31	Average	100	24	VERTICAL
2	15540.75	51.18	74.00	-22.82	42.67	6.13	37.69	35.31	Peak	100	24	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 6

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	15599.20	50.98	74.00	-23.02	42.59	6.13	37.60	35.34	Peak	100	195	HORIZONTAL
2	15600.65	36.98	54.00	-17.02	28.59	6.13	37.60	35.34	Average	100	195	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	15600.36	50.90	74.00	-23.10	42.51	6.13	37.60	35.34	Peak	100	215	VERTICAL
2	15600.42	36.91	54.00	-17.09	28.52	6.13	37.60	35.34	Average	100	215	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS8 20MHz Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 6

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	15720.62	38.50	54.00	-15.50	30.27	6.14	37.48	35.39	Average	107	36 HORIZONTAL
2	15720.94	51.46	74.00	-22.54	43.23	6.14	37.48	35.39	Peak	107	36 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	15719.64	51.50	74.00	-22.50	43.27	6.14	37.48	35.39	Peak	107	16 VERTICAL
2	15720.17	37.57	54.00	-16.43	29.34	6.14	37.48	35.39	Average	107	16 VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 38 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 6

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	15583.68	50.66	74.00	-23.34	42.25	6.13	37.61	35.33	Peak	103	37 HORIZONTAL
2	15587.52	37.62	54.00	-16.38	29.21	6.13	37.61	35.33	Average	103	37 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	15570.72	38.29	54.00	-15.71	29.84	6.13	37.65	35.33	Average	103	23 VERTICAL
2	15576.80	51.05	74.00	-22.95	42.64	6.13	37.61	35.33	Peak	103	23 VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS8 40MHz Ch 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 6

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	15694.40	38.32	54.00	-15.68	30.07	6.14	37.49	35.38	Average	100	333	HORIZONTAL
2	15695.76	51.99	74.00	-22.01	43.74	6.14	37.49	35.38	Peak	100	333	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	15697.36	38.46	54.00	-15.54	30.21	6.14	37.49	35.38	Average	100	339	VERTICAL
2	15697.92	51.72	74.00	-22.28	43.47	6.14	37.49	35.38	Peak	100	339	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 6

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	15541.50	39.96	54.00	-14.04	31.49	6.13	37.65	35.31	Average	100	237	HORIZONTAL
2	15544.90	52.34	74.00	-21.66	43.87	6.13	37.65	35.31	Peak	100	237	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	15539.80	54.34	74.00	-19.66	45.83	6.13	37.69	35.31	Peak	100	198	VERTICAL
2	15543.60	41.63	54.00	-12.37	33.12	6.13	37.69	35.31	Average	100	198	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 6

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	15587.10	52.01	74.00	-21.99	43.60	6.13	37.61	35.33	Peak	100	145	HORIZONTAL
2	15603.50	39.79	54.00	-14.21	31.40	6.13	37.60	35.34	Average	100	145	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15603.50	40.06	54.00	-13.94	31.67	6.13	37.60	35.34	Average	100	262	VERTICAL
2	15605.10	52.63	74.00	-21.37	44.24	6.13	37.60	35.34	Peak	100	262	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 6

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	15699.30	50.71	74.00	-23.29	42.46	6.14	37.49	35.38	Peak	100	296	HORIZONTAL
2	15738.40	38.82	54.00	-15.18	30.61	6.14	37.46	35.39	Average	100	296	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	15720.10	51.32	74.00	-22.68	43.09	6.14	37.48	35.39	Peak	100	181	VERTICAL
2	15723.70	39.99	54.00	-14.01	31.76	6.14	37.48	35.39	Average	100	181	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11a Ch 36 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15532.20	53.82	74.00	-20.18	45.31	6.13	37.67	35.29	Peak	100	350	HORIZONTAL
2	15533.32	40.00	54.00	-14.00	31.49	6.13	37.67	35.29	Average	100	350	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	15537.36	54.70	74.00	-19.30	46.13	6.13	37.73	35.29	Peak	100	32	VERTICAL
2	15537.44	40.38	54.00	-13.62	31.81	6.13	37.73	35.29	Average	100	32	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11a Ch 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15594.44	39.18	54.00	-14.82	30.79	6.13	37.60	35.34	Average	100	222	HORIZONTAL
2	15598.28	52.40	74.00	-21.60	44.01	6.13	37.60	35.34	Peak	100	222	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	15597.28	39.08	54.00	-14.92	30.69	6.13	37.60	35.34	Average	100	18	VERTICAL
2	15602.64	52.61	74.00	-21.39	44.22	6.13	37.60	35.34	Peak	100	18	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Denis Su	Configurations	IEEE 802.11a Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

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	15720.16	38.13	54.00	-15.87	29.90	6.14	37.48	35.39	Average	100	336	HORIZONTAL
2	15721.48	52.16	74.00	-21.84	43.93	6.14	37.48	35.39	Peak	100	336	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	15717.44	53.39	74.00	-20.61	45.16	6.14	37.48	35.39	Peak	100	248	VERTICAL
2	15721.60	39.21	54.00	-14.79	30.98	6.14	37.48	35.39	Average	100	248	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15539.40	54.69	74.00	-19.31	46.22	6.13	37.65	35.31	Peak	100	127	HORIZONTAL
2	15547.84	40.76	54.00	-13.24	32.29	6.13	37.65	35.31	Average	100	127	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15535.92	40.91	54.00	-13.09	32.34	6.13	37.73	35.29	Average	100	234	VERTICAL
2	15536.60	53.65	74.00	-20.35	45.08	6.13	37.73	35.29	Peak	100	234	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15598.00	56.28	74.00	-17.72	47.89	6.13	37.60	35.34	Peak	100	344	HORIZONTAL
2	15603.96	41.44	54.00	-12.56	33.05	6.13	37.60	35.34	Average	100	344	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	15598.64	41.27	54.00	-12.73	32.88	6.13	37.60	35.34	Average	100	112	VERTICAL
2	15606.56	54.59	74.00	-19.41	46.22	6.13	37.58	35.34	Peak	100	112	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15718.80	40.40	54.00	-13.60	32.17	6.14	37.48	35.39	Average	100	164	HORIZONTAL
2	15719.68	52.52	74.00	-21.48	44.29	6.14	37.48	35.39	Peak	100	164	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15719.24	39.96	54.00	-14.04	31.73	6.14	37.48	35.39	Average	100	255	VERTICAL
2	15719.44	51.97	74.00	-22.03	43.74	6.14	37.48	35.39	Peak	100	255	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15565.10	40.80	54.00	-13.20	32.37	6.13	37.63	35.33	Average	100	105	HORIZONTAL
2	15571.18	53.46	74.00	-20.54	45.03	6.13	37.63	35.33	Peak	100	105	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	15567.22	53.29	74.00	-20.71	44.84	6.13	37.65	35.33	Peak	100	284	VERTICAL
2	15572.68	41.00	54.00	-13.00	32.59	6.13	37.61	35.33	Average	100	284	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15684.52	40.78	54.00	-13.22	32.50	6.14	37.51	35.37	Average	100	226	HORIZONTAL
2	15693.40	53.00	74.00	-21.00	44.75	6.14	37.49	35.38	Peak	100	226	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	15686.36	40.34	54.00	-13.66	32.06	6.14	37.51	35.37	Average	100	173	VERTICAL
2	15688.12	52.95	74.00	-21.05	44.67	6.14	37.51	35.37	Peak	100	173	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15536.82	54.43	74.00	-19.57	45.92	6.13	37.67	35.29	Peak	100	316	HORIZONTAL
2	15537.36	39.73	54.00	-14.27	31.22	6.13	37.67	35.29	Average	100	316	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	15539.44	53.68	74.00	-20.32	45.17	6.13	37.69	35.31	Peak	100	28	VERTICAL
2	15539.76	38.86	54.00	-15.14	30.35	6.13	37.69	35.31	Average	100	28	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15595.24	56.22	74.00	-17.78	47.83	6.13	37.60	35.34	Peak	130	328	HORIZONTAL
2	15599.78	40.76	54.00	-13.24	32.37	6.13	37.60	35.34	Average	130	328	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	15595.06	39.02	54.00	-14.98	30.63	6.13	37.60	35.34	Average	100	4	VERTICAL
2	15603.06	52.85	74.00	-21.15	44.46	6.13	37.60	35.34	Peak	100	4	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 48 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

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	15718.40	52.16	74.00	-21.84	43.93	6.14	37.48	35.39	Peak	100	326	HORIZONTAL
2	15718.54	38.34	54.00	-15.66	30.11	6.14	37.48	35.39	Average	100	326	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	15717.52	51.19	74.00	-22.81	42.96	6.14	37.48	35.39	Peak	100	125	VERTICAL
2	15724.54	37.54	54.00	-16.46	29.31	6.14	37.48	35.39	Average	100	125	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15528.38	51.65	74.00	-22.35	43.14	6.13	37.67	35.29	Peak	100	290	HORIZONTAL
2	15537.28	37.79	54.00	-16.21	29.28	6.13	37.67	35.29	Average	100	290	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	15544.09	38.88	54.00	-15.12	30.37	6.13	37.69	35.31	Average	100	13	VERTICAL
2	15557.15	53.20	74.00	-20.80	44.73	6.13	37.65	35.31	Peak	100	13	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15597.12	44.30	54.00	-9.70	35.91	6.13	37.60	35.34	Average	100	303	HORIZONTAL
2	15600.32	58.77	74.00	-15.23	50.38	6.13	37.60	35.34	Peak	100	303	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	15602.56	48.27	54.00	-5.73	39.88	6.13	37.60	35.34	Average	100	344	VERTICAL
2	15604.25	62.66	74.00	-11.34	54.27	6.13	37.60	35.34	Peak	100	344	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15715.59	56.56	74.00	-17.44	48.32	6.14	37.48	35.38	Peak	100	304	HORIZONTAL
2	15716.07	41.00	54.00	-13.00	32.76	6.14	37.48	35.38	Average	100	304	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	15715.75	60.47	74.00	-13.53	52.23	6.14	37.48	35.38	Peak	100	13	VERTICAL
2	15718.80	44.43	54.00	-9.57	36.20	6.14	37.48	35.39	Average	100	13	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15566.55	37.35	54.00	-16.65	28.92	6.13	37.63	35.33	Average	100	316	HORIZONTAL
2	15567.12	51.04	74.00	-22.96	42.61	6.13	37.63	35.33	Peak	100	316	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	15546.84	37.33	54.00	-16.67	28.82	6.13	37.69	35.31	Average	100	197	VERTICAL
2	15551.97	50.14	74.00	-23.86	41.63	6.13	37.69	35.31	Peak	100	197	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15698.41	38.03	54.00	-15.97	29.78	6.14	37.49	35.38	Average	100	307	HORIZONTAL
2	15701.22	52.67	74.00	-21.33	44.42	6.14	37.49	35.38	Peak	100	307	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	15681.83	53.20	74.00	-20.80	44.92	6.14	37.51	35.37	Peak	100	18	VERTICAL
2	15697.77	39.32	54.00	-14.68	31.07	6.14	37.49	35.38	Average	100	18	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15536.79	52.85	74.00	-21.15	44.34	6.13	37.67	35.29	Peak	100	55	HORIZONTAL
2	15540.48	38.70	54.00	-15.30	30.23	6.13	37.65	35.31	Average	100	55	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	15539.84	56.96	74.00	-17.04	48.45	6.13	37.69	35.31	Peak	100	341	VERTICAL
2	15540.83	40.42	54.00	-13.58	31.91	6.13	37.69	35.31	Average	100	341	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15600.64	59.10	74.00	-14.90	50.71	6.13	37.60	35.34	Peak	100	53	HORIZONTAL
2	15602.32	44.50	54.00	-9.50	36.11	6.13	37.60	35.34	Average	100	53	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15595.48	66.17	74.00	-7.83	57.78	6.13	37.60	35.34	Peak	100	341	VERTICAL
2	15599.20	49.75	54.00	-4.25	41.36	6.13	37.60	35.34	Average	100	341	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

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	15717.36	41.68	54.00	-12.32	33.45	6.14	37.48	35.39	Average	100	305	HORIZONTAL
2	15721.12	56.83	74.00	-17.17	48.60	6.14	37.48	35.39	Peak	100	305	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	15716.07	60.55	74.00	-13.45	52.31	6.14	37.48	35.38	Peak	100	16	VERTICAL
2	15718.80	44.77	54.00	-9.23	36.54	6.14	37.48	35.39	Average	100	16	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15536.25	51.51	74.00	-22.49	43.00	6.13	37.67	35.29	Peak	100	141	HORIZONTAL
2	15536.79	38.19	54.00	-15.81	29.68	6.13	37.67	35.29	Average	100	141	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	15542.88	38.22	54.00	-15.78	29.71	6.13	37.69	35.31	Average	100	279	VERTICAL
2	15549.01	50.93	74.00	-23.07	42.42	6.13	37.69	35.31	Peak	100	279	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15597.50	51.41	74.00	-22.59	43.02	6.13	37.60	35.34	Peak	100	211	HORIZONTAL
2	15602.12	38.06	54.00	-15.94	29.67	6.13	37.60	35.34	Average	100	211	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	15592.63	50.76	74.00	-23.24	42.37	6.13	37.60	35.34	Peak	100	107	VERTICAL
2	15597.50	39.68	54.00	-14.32	31.29	6.13	37.60	35.34	Average	100	107	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15713.91	38.38	54.00	-15.62	30.14	6.14	37.48	35.38	Average	100	87	HORIZONTAL
2	15714.01	51.03	74.00	-22.97	42.79	6.14	37.48	35.38	Peak	100	87	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15723.30	38.39	54.00	-15.61	30.16	6.14	37.48	35.39	Average	100	286	VERTICAL
2	15724.33	51.31	74.00	-22.69	43.08	6.14	37.48	35.39	Peak	100	286	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	15565.90	38.37	54.00	-15.63	29.94	6.13	37.63	35.33	Average	100	291	HORIZONTAL
2	15577.50	51.21	74.00	-22.79	42.80	6.13	37.61	35.33	Peak	100	291	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
1	15569.36	51.87	74.00	-22.13	43.42	6.13	37.65	35.33	Peak	100	122	VERTICAL
2	15575.71	38.03	54.00	-15.97	29.62	6.13	37.61	35.33	Average	100	122	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 46 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15688.75	38.40	54.00	-15.60	30.12	6.14	37.51	35.37 Average	100	164	HORIZONTAL
2	15689.17	51.31	74.00	-22.69	43.03	6.14	37.51	35.37 Peak	100	164	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	15683.30	51.74	74.00	-22.26	43.46	6.14	37.51	35.37 Peak	100	298	VERTICAL
2	15684.68	38.72	54.00	-15.28	30.44	6.14	37.51	35.37 Average	100	298	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15537.98	38.07	54.00	-15.93	29.60	6.13	37.65	35.31	Average	100	234	HORIZONTAL
2	15541.75	51.02	74.00	-22.98	42.55	6.13	37.65	35.31	Peak	100	234	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	15539.97	50.81	74.00	-23.19	42.30	6.13	37.69	35.31	Peak	100	194	VERTICAL
2	15543.09	38.11	54.00	-15.89	29.60	6.13	37.69	35.31	Average	100	194	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

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	15595.48	51.06	74.00	-22.94	42.67	6.13	37.60	35.34	Peak	100	198	HORIZONTAL
2	15599.57	38.09	54.00	-15.91	29.70	6.13	37.60	35.34	Average	100	198	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	15597.12	38.20	54.00	-15.80	29.81	6.13	37.60	35.34	Average	100	106	VERTICAL
2	15604.18	50.62	74.00	-23.38	42.23	6.13	37.60	35.34	Peak	100	106	VERTICAL

Temperature	25.6°C	Humidity	56°C
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 48 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	
1	15719.82	38.21	54.00	-15.79	29.98	6.14	37.48	35.39	Average	100	228	HORIZONTAL
2	15720.83	51.71	74.00	-22.29	43.48	6.14	37.48	35.39	Peak	100	228	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	Remark	cm	deg	
1	15717.58	51.98	74.00	-22.02	43.75	6.14	37.48	35.39	Peak	100	179	VERTICAL
2	15719.55	38.29	54.00	-15.71	30.06	6.14	37.48	35.39	Average	100	179	VERTICAL

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 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

- The test procedure is the same as section 4.6.3, only the frequency range investigated is limited to 100MHz around bandedges.
- In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

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	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

Channel 36

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	
1	5147.40	72.92	74.00	-1.08	35.82	3.43	33.67	0.00	Peak	126	320	HORIZONTAL
2	5150.00	51.00	54.00	-3.00	13.90	3.43	33.67	0.00	Average	126	320	HORIZONTAL
3	5177.60	114.69	68.30			3.44	33.73	0.00	Peak	126	320	HORIZONTAL
4	5178.40	104.51	68.30			3.44	33.73	0.00	Average	126	320	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	
1	5148.80	62.40	74.00	-11.60	25.30	3.43	33.67	0.00	Peak	127	319	HORIZONTAL
2	5150.00	46.16	54.00	-7.84	9.06	3.43	33.67	0.00	Average	127	319	HORIZONTAL
3	5206.80	106.64	68.30			3.45	33.76	0.00	Average	127	319	HORIZONTAL
4	5206.80	116.76	68.30			3.45	33.76	0.00	Peak	127	319	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg	
1	5147.60	56.85	74.00	-17.15	19.75	3.43	33.67	0.00	Peak	115	322	HORIZONTAL
2	5148.20	44.92	54.00	-9.08	7.82	3.43	33.67	0.00	Average	115	322	HORIZONTAL
3	5246.60	115.59	68.30			3.46	33.85	0.00	Peak	115	322	HORIZONTAL
4	5247.80	105.63	68.30			3.46	33.85	0.00	Average	115	322	HORIZONTAL
5	5360.20	47.74	54.00	-6.26	10.22	3.49	34.03	0.00	Average	115	322	HORIZONTAL
6	5360.80	58.74	74.00	-15.26	21.22	3.49	34.03	0.00	Peak	115	322	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Jan. 17, 2012	Test Mode	Mode 3

Channel 38

	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	5150.00	52.91	54.00	-1.09	15.81	3.43	33.67	0.00 Average	156	13	HORIZONTAL
2	5150.00	72.71	74.00	-1.29	35.61	3.43	33.67	0.00 Peak	156	13	HORIZONTAL
3	5172.80	92.23	68.30			3.44	33.70	0.00 Average	156	13	HORIZONTAL
4	5172.80	101.85	68.30			3.44	33.70	0.00 Peak	156	13	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5149.20	69.95	74.00	-4.05	32.85	3.43	33.67	0.00 Peak	154	16	HORIZONTAL
2	5150.00	45.63	54.00	-8.37	8.53	3.43	33.67	0.00 Average	154	16	HORIZONTAL
3	5231.20	100.78	68.30			3.46	33.82	0.00 Average	154	16	HORIZONTAL
4	5231.60	110.21	68.30			3.46	33.82	0.00 Peak	154	16	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 3

Channel 36

	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	5149.20	72.78	74.00	-1.22	35.68	3.43	33.67	0.00	Peak	100	323	HORIZONTAL
2	5149.40	48.27	54.00	-5.73	11.17	3.43	33.67	0.00	Average	100	323	HORIZONTAL
3	5184.60	102.48	68.30			3.44	33.73	0.00	Average	100	323	HORIZONTAL
4	5184.80	112.73	68.30			3.44	33.73	0.00	Peak	100	323	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5149.60	47.72	54.00	-6.28	10.62	3.43	33.67	0.00	Average	121	320	HORIZONTAL
2	5149.60	65.60	74.00	-8.40	28.50	3.43	33.67	0.00	Peak	121	320	HORIZONTAL
3	5204.40	108.26	68.30			3.45	33.76	0.00	Average	121	320	HORIZONTAL
4	5204.80	117.70	68.30			3.45	33.76	0.00	Peak	121	320	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5147.60	57.08	74.00	-16.92	19.98	3.43	33.67	0.00	Peak	121	323	HORIZONTAL
2	5150.00	45.81	54.00	-8.19	8.71	3.43	33.67	0.00	Average	121	323	HORIZONTAL
3	5236.40	116.74	68.30			3.46	33.82	0.00	Peak	121	323	HORIZONTAL
4	5237.00	107.19	68.30			3.46	33.82	0.00	Average	121	323	HORIZONTAL
5	5360.20	44.68	54.00	-9.32	7.16	3.49	34.03	0.00	Average	121	323	HORIZONTAL
6	5365.00	58.66	74.00	-15.34	21.11	3.49	34.06	0.00	Peak	121	323	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 36

	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	5144.20	70.31	74.00	-3.69	33.21	3.43	33.67	0.00	Peak	100	32	VERTICAL
2	5150.00	52.72	54.00	-1.28	15.62	3.43	33.67	0.00	Average	100	32	VERTICAL
3	5186.80	101.62	68.30			3.44	33.73	0.00	Average	100	32	VERTICAL
4	5187.20	110.83	68.30			3.44	33.73	0.00	Peak	100	32	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5150.00	45.41	54.00	-8.59	8.31	3.43	33.67	0.00	Average	100	141	VERTICAL
2	5150.00	65.20	74.00	-8.80	28.10	3.43	33.67	0.00	Peak	100	141	VERTICAL
3	5206.80	104.07	68.30			3.45	33.76	0.00	Average	100	141	VERTICAL
4	5206.80	113.11	68.30			3.45	33.76	0.00	Peak	100	141	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5149.20	53.14	74.00	-20.86	16.04	3.43	33.67	0.00	Peak	100	131	VERTICAL
2	5150.00	41.78	54.00	-12.22	4.68	3.43	33.67	0.00	Average	100	131	VERTICAL
3	5233.60	104.84	68.30			3.46	33.82	0.00	Average	100	131	VERTICAL
4	5236.00	114.71	68.30			3.46	33.82	0.00	Peak	100	131	VERTICAL
5	5358.80	63.99	74.00	-10.01	26.47	3.49	34.03	0.00	Peak	100	131	VERTICAL
6	5412.40	47.27	54.00	-6.73	9.64	3.51	34.12	0.00	Average	100	131	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 38

	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	5149.20	68.91	74.00	-5.09	31.81	3.43	33.67	0.00	Peak	104	302	VERTICAL
2	5150.00	52.08	54.00	-1.92	14.98	3.43	33.67	0.00	Average	104	302	VERTICAL
3	5206.00	103.94	68.30			3.45	33.76	0.00	Peak	104	302	VERTICAL
4	5206.80	94.98	68.30			3.45	33.76	0.00	Average	104	302	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5144.40	66.32	74.00	-7.68	29.22	3.43	33.67	0.00	Peak	100	49	VERTICAL
2	5150.00	49.50	54.00	-4.50	12.40	3.43	33.67	0.00	Average	100	49	VERTICAL
3	5227.20	102.93	68.30			3.46	33.79	0.00	Average	100	49	VERTICAL
4	5228.40	112.53	68.30			3.46	33.79	0.00	Peak	100	49	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 36

	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	5147.60	72.68	74.00	-1.32	35.58	3.43	33.67	0.00	Peak	100	105	VERTICAL
2	5150.00	52.66	54.00	-1.34	15.56	3.43	33.67	0.00	Average	100	105	VERTICAL
3	5182.40	105.53	68.30			3.44	33.73	0.00	Average	100	105	VERTICAL
4	5182.60	115.18	68.30			3.44	33.73	0.00	Peak	100	105	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5149.60	63.53	74.00	-10.47	26.43	3.43	33.67	0.00	Peak	100	131	VERTICAL
2	5150.00	50.11	54.00	-3.89	13.01	3.43	33.67	0.00	Average	100	131	VERTICAL
3	5206.80	118.73	68.30			3.45	33.76	0.00	Peak	100	131	VERTICAL
4	5207.60	109.66	68.30			3.45	33.76	0.00	Average	100	131	VERTICAL

Item 1, 2 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5145.80	61.71	74.00	-12.29	24.61	3.43	33.67	0.00	Peak	100	104	VERTICAL
2	5150.00	49.26	54.00	-4.74	12.16	3.43	33.67	0.00	Average	100	104	VERTICAL
3	5234.00	108.80	68.30			3.46	33.82	0.00	Average	100	104	VERTICAL
4	5234.00	118.99	68.30			3.46	33.82	0.00	Peak	100	104	VERTICAL
5	5350.00	50.38	54.00	-3.62	12.86	3.49	34.03	0.00	Average	100	104	VERTICAL
6	5368.60	62.94	74.00	-11.06	25.39	3.49	34.06	0.00	Peak	100	104	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 38

	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	5148.40	69.14	74.00	-4.86	32.04	3.43	33.67	0.00 Peak	100	125	VERTICAL
2	5150.00	52.15	54.00	-1.85	15.05	3.43	33.67	0.00 Average	100	125	VERTICAL
3	5194.00	95.74	68.30			3.44	33.73	0.00 Average	100	125	VERTICAL
4	5195.20	105.56	68.30			3.45	33.76	0.00 Peak	100	125	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5148.40	50.88	54.00	-3.12	13.78	3.43	33.67	0.00 Average	100	106	VERTICAL
2	5148.40	65.13	74.00	-8.87	28.03	3.43	33.67	0.00 Peak	100	106	VERTICAL
3	5243.20	107.27	68.30			3.46	33.82	0.00 Average	100	106	VERTICAL
4	5244.40	116.78	68.30			3.46	33.82	0.00 Peak	100	106	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS8 20MHz Ch 36, 40, 48/ Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 36

	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	5150.00	52.58	54.00	-1.42	15.48	3.43	33.67	0.00	Average	100	39	VERTICAL
2	5150.00	70.52	74.00	-3.48	33.42	3.43	33.67	0.00	Peak	100	39	VERTICAL
3	5185.00	115.03	68.30			3.44	33.73	0.00	Peak	100	39	VERTICAL
4	5187.20	102.47	68.30			3.44	33.73	0.00	Average	100	39	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5150.00	44.56	54.00	-9.44	7.46	3.43	33.67	0.00	Average	100	44	VERTICAL
2	5150.00	60.06	74.00	-13.94	22.96	3.43	33.67	0.00	Peak	100	44	VERTICAL
3	5206.40	105.51	68.30			3.45	33.76	0.00	Average	100	44	VERTICAL
4	5208.40	117.26	68.30			3.45	33.76	0.00	Peak	100	44	VERTICAL

Item 1, 2 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5150.00	41.84	54.00	-12.16	4.74	3.43	33.67	0.00	Average	101	40	VERTICAL
2	5150.00	53.38	74.00	-20.62	16.28	3.43	33.67	0.00	Peak	101	40	VERTICAL
3	5244.80	105.93	68.30			3.46	33.82	0.00	Average	101	40	VERTICAL
4	5246.60	117.49	68.30			3.46	33.85	0.00	Peak	101	40	VERTICAL
5	5360.80	48.91	54.00	-5.09	11.39	3.49	34.03	0.00	Average	101	40	VERTICAL
6	5363.20	61.23	74.00	-12.77	23.71	3.49	34.03	0.00	Peak	101	40	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11n MCS8 40MHz Ch 38, 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 38

	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	5149.20	70.05	74.00	-3.95	32.95	3.43	33.67	0.00 Peak	103	328	VERTICAL
2	5150.00	52.47	54.00	-1.53	15.37	3.43	33.67	0.00 Average	103	328	VERTICAL
3	5173.20	92.98	68.30			3.44	33.70	0.00 Average	103	328	VERTICAL
4	5180.40	102.18	68.30			3.44	33.73	0.00 Peak	103	328	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5143.60	63.75	74.00	-10.25	26.65	3.43	33.67	0.00 Peak	103	41	VERTICAL
2	5150.00	47.01	54.00	-6.99	9.91	3.43	33.67	0.00 Average	103	41	VERTICAL
3	5244.80	114.26	68.30			3.46	33.82	0.00 Peak	103	41	VERTICAL
4	5245.60	104.50	68.30			3.46	33.85	0.00 Average	103	41	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 (1TX, 2RX)
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 36

	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	5144.40	69.64	74.00	-4.36	32.54	3.43	33.67	0.00	Peak	100	32	VERTICAL
2	5150.00	52.91	54.00	-1.09	15.81	3.43	33.67	0.00	Average	100	32	VERTICAL
3	5186.40	101.97	68.30			3.44	33.73	0.00	Average	100	32	VERTICAL
4	5186.40	111.35	68.30			3.44	33.73	0.00	Peak	100	32	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5145.20	62.94	74.00	-11.06	25.84	3.43	33.67	0.00	Peak	100	141	VERTICAL
2	5150.00	47.35	54.00	-6.65	10.25	3.43	33.67	0.00	Average	100	141	VERTICAL
3	5206.80	105.34	68.30			3.45	33.76	0.00	Average	100	141	VERTICAL
4	5207.60	114.47	68.30			3.45	33.76	0.00	Peak	100	141	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5144.00	53.00	74.00	-21.00	15.90	3.43	33.67	0.00	Peak	100	321	VERTICAL
2	5150.00	41.35	54.00	-12.65	4.25	3.43	33.67	0.00	Average	100	321	VERTICAL
3	5233.00	105.48	68.30			3.46	33.82	0.00	Average	100	321	VERTICAL
4	5236.00	115.25	68.30			3.46	33.82	0.00	Peak	100	321	VERTICAL
5	5363.00	63.66	74.00	-10.34	26.14	3.49	34.03	0.00	Peak	100	321	VERTICAL
6	5408.00	49.13	54.00	-4.87	11.50	3.51	34.12	0.00	Average	100	321	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Denis Su	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 + Chain 2
Test Date	Nov. 28, 2011	Test Mode	Mode 6

Channel 36

	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	5150.00	48.81	54.00	-5.19	11.71	3.43	33.67	0.00	Average	100	0	VERTICAL
2	5150.00	72.80	74.00	-1.20	35.70	3.43	33.67	0.00	Peak	100	0	VERTICAL
3	5185.20	100.80	68.30			3.44	33.73	0.00	Average	100	0	VERTICAL
4	5185.20	112.13	68.30			3.44	33.73	0.00	Peak	100	0	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5148.80	61.47	74.00	-12.53	24.37	3.43	33.67	0.00	Peak	100	49	VERTICAL
2	5150.00	45.08	54.00	-8.92	7.98	3.43	33.67	0.00	Average	100	49	VERTICAL
3	5204.00	106.65	68.30			3.45	33.76	0.00	Average	100	49	VERTICAL
4	5204.40	116.35	68.30			3.45	33.76	0.00	Peak	100	49	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5147.00	40.31	54.00	-13.69	3.21	3.43	33.67	0.00	Average	100	10	VERTICAL
2	5147.60	53.05	74.00	-20.95	15.95	3.43	33.67	0.00	Peak	100	10	VERTICAL
3	5244.80	103.37	68.30			3.46	33.82	0.00	Average	100	10	VERTICAL
4	5245.40	113.90	68.30			3.46	33.82	0.00	Peak	100	10	VERTICAL
5	5360.20	45.53	54.00	-8.47	8.01	3.49	34.03	0.00	Average	100	10	VERTICAL
6	5360.80	55.48	74.00	-18.52	17.96	3.49	34.03	0.00	Peak	100	10	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

Channel 36

	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	5150.00	50.93	54.00	-3.07	13.83	3.43	33.67	0.00	Average	179	42	HORIZONTAL
2	5150.00	72.91	74.00	-1.09	35.81	3.43	33.67	0.00	Peak	179	42	HORIZONTAL
3	5186.00	114.61	68.30			3.44	33.73	0.00	Peak	179	42	HORIZONTAL
4	5187.40	103.72	68.30			3.44	33.73	0.00	Average	179	42	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5126.00	46.37	54.00	-7.63	9.33	3.43	33.61	0.00	Average	172	308	HORIZONTAL
2	5149.00	65.05	74.00	-8.95	27.95	3.43	33.67	0.00	Peak	172	308	HORIZONTAL
3	5206.00	116.63	68.30			3.45	33.76	0.00	Peak	172	308	HORIZONTAL
4	5208.00	107.48	68.30			3.45	33.76	0.00	Average	172	308	HORIZONTAL
5	5360.00	52.90	54.00	-1.10	15.38	3.49	34.03	0.00	Average	172	308	HORIZONTAL
6	5360.00	61.40	74.00	-12.60	23.88	3.49	34.03	0.00	Peak	172	308	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5144.60	55.97	74.00	-18.03	18.87	3.43	33.67	0.00	Peak	191	289	HORIZONTAL
2	5146.40	43.01	54.00	-10.99	5.91	3.43	33.67	0.00	Average	191	289	HORIZONTAL
3	5246.00	106.90	68.30			3.46	33.85	0.00	Average	191	289	HORIZONTAL
4	5246.00	116.68	68.30			3.46	33.85	0.00	Peak	191	289	HORIZONTAL
5	5360.20	48.65	54.00	-5.35	11.13	3.49	34.03	0.00	Average	191	289	HORIZONTAL
6	5360.80	60.34	74.00	-13.66	22.82	3.49	34.03	0.00	Peak	191	289	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

Channel 38

	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	5149.20	71.78	74.00	-2.22	34.68	3.43	33.67	0.00 Peak	181	334	HORIZONTAL
2	5150.00	52.41	54.00	-1.59	15.31	3.43	33.67	0.00 Average	181	334	HORIZONTAL
3	5192.40	103.64	68.30			3.44	33.73	0.00 Peak	181	334	HORIZONTAL
4	5193.20	93.71	68.30			3.44	33.73	0.00 Average	181	334	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5150.00	50.17	54.00	-3.83	13.07	3.43	33.67	0.00 Average	173	329	HORIZONTAL
2	5150.00	64.76	74.00	-9.24	27.66	3.43	33.67	0.00 Peak	173	329	HORIZONTAL
3	5245.60	105.80	68.30			3.46	33.85	0.00 Average	173	329	HORIZONTAL
4	5246.80	115.39	68.30			3.46	33.85	0.00 Peak	173	329	HORIZONTAL
5	5360.20	52.62	54.00	-1.38	15.10	3.49	34.03	0.00 Average	173	329	HORIZONTAL
6	5360.20	60.50	74.00	-13.50	22.98	3.49	34.03	0.00 Peak	173	329	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 + Chain 2 (2TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 9

Channel 36

	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	5149.60	50.29	54.00	-3.71	13.19	3.43	33.67	0.00	Average	100	3	VERTICAL
2	5150.00	72.47	74.00	-1.53	35.37	3.43	33.67	0.00	Peak	100	3	VERTICAL
3	5173.20	111.38	68.30			3.44	33.70	0.00	Peak	100	3	VERTICAL
4	5173.80	101.35	68.30			3.44	33.70	0.00	Average	100	3	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5148.80	62.73	74.00	-11.27	25.63	3.43	33.67	0.00	Peak	189	306	HORIZONTAL
2	5149.20	43.70	54.00	-10.30	6.60	3.43	33.67	0.00	Average	189	306	HORIZONTAL
3	5193.60	115.54	68.30			3.44	33.73	0.00	Peak	189	306	HORIZONTAL
4	5203.20	105.94	68.30			3.45	33.76	0.00	Average	189	306	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	41.39	54.00	-12.61	4.29	3.43	33.67	0.00	Average	176	45	HORIZONTAL
2	5147.00	54.15	74.00	-19.85	17.05	3.43	33.67	0.00	Peak	176	45	HORIZONTAL
3	5245.40	105.03	68.30			3.46	33.82	0.00	Average	176	45	HORIZONTAL
4	5245.40	115.19	68.30			3.46	33.82	0.00	Peak	176	45	HORIZONTAL
5	5360.20	45.55	54.00	-8.45	8.03	3.49	34.03	0.00	Average	176	45	HORIZONTAL
6	5362.60	57.01	74.00	-16.99	19.49	3.49	34.03	0.00	Peak	176	45	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

Channel 36

	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	71.88	74.00	-2.12	34.78	3.43	33.67	0.00	Peak	114	360	VERTICAL
2	5150.00	52.73	54.00	-1.27	15.63	3.43	33.67	0.00	Average	114	360	VERTICAL
3	5183.21	118.89	68.30			3.44	33.73	0.00	Peak	114	360	VERTICAL
4	5186.41	107.74	68.30			3.44	33.73	0.00	Average	114	360	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5150.00	52.05	54.00	-1.95	14.95	3.43	33.67	0.00	Average	125	360	VERTICAL
2	5150.00	70.21	74.00	-3.79	33.11	3.43	33.67	0.00	Peak	125	360	VERTICAL
3	5206.09	111.45	68.30			3.45	33.76	0.00	Average	125	360	VERTICAL
4	5208.01	120.89	68.30			3.45	33.76	0.00	Peak	125	360	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5145.19	60.84	74.00	-13.16	23.74	3.43	33.67	0.00	Peak	125	360	VERTICAL
2	5150.00	46.93	54.00	-7.07	9.83	3.43	33.67	0.00	Average	125	360	VERTICAL
3	5245.29	111.52	68.30			3.46	33.82	0.00	Average	125	360	VERTICAL
4	5246.25	121.44	68.30			3.46	33.85	0.00	Peak	125	360	VERTICAL
5	5365.87	65.45	74.00	-8.55	27.90	3.49	34.06	0.00	Peak	125	360	VERTICAL
6	5368.75	50.29	54.00	-3.71	12.74	3.49	34.06	0.00	Average	125	360	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

Channel 38

	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	5150.00	52.40	54.00	-1.60	15.30	3.43	33.67	0.00	Average	125	0	VERTICAL
2	5150.00	67.05	74.00	-6.95	29.95	3.43	33.67	0.00	Peak	125	0	VERTICAL
3	5202.50	108.44	68.30			3.45	33.76	0.00	Peak	125	0	VERTICAL
4	5206.35	98.96	68.30			3.45	33.76	0.00	Average	125	0	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5150.00	51.02	54.00	-2.98	13.92	3.43	33.67	0.00	Average	125	351	VERTICAL
2	5150.00	72.02	74.00	-1.98	34.92	3.43	33.67	0.00	Peak	125	351	VERTICAL
3	5246.03	108.26	68.30			3.46	33.85	0.00	Average	125	351	VERTICAL
4	5246.35	118.25	68.30			3.46	33.85	0.00	Peak	125	351	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 + Chain 2 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 12

Channel 36

	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	5148.88	71.86	74.00	-2.14	34.76	3.43	33.67	0.00	Peak	116	0	VERTICAL
2	5150.00	52.42	54.00	-1.58	15.32	3.43	33.67	0.00	Average	116	0	VERTICAL
3	5185.93	108.32	68.30			3.44	33.73	0.00	Average	116	0	VERTICAL
4	5187.37	118.36	68.30			3.44	33.73	0.00	Peak	116	0	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5149.20	67.77	74.00	-6.23	30.67	3.43	33.67	0.00	Peak	111	360	VERTICAL
2	5151.00	52.34	68.30	-15.96	15.24	3.43	33.67	0.00	Average	111	360	VERTICAL
3	5206.41	112.10	68.30			3.45	33.76	0.00	Average	111	360	VERTICAL
4	5207.21	121.68	68.30			3.45	33.76	0.00	Peak	111	360	VERTICAL
5	5383.65	64.55	74.00	-9.45	26.96	3.50	34.09	0.00	Peak	111	360	VERTICAL
6	5434.14	51.47	54.00	-2.53	13.77	3.52	34.18	0.00	Average	111	360	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5144.39	60.49	74.00	-13.51	23.39	3.43	33.67	0.00	Peak	126	361	VERTICAL
2	5150.00	47.32	54.00	-6.68	10.22	3.43	33.67	0.00	Average	126	361	VERTICAL
3	5245.61	111.90	68.30			3.46	33.85	0.00	Average	126	361	VERTICAL
4	5245.61	122.16	68.30			3.46	33.85	0.00	Peak	126	361	VERTICAL
5	5353.21	48.91	54.00	-5.09	11.39	3.49	34.03	0.00	Average	126	361	VERTICAL
6	5370.03	64.06	74.00	-9.94	26.51	3.49	34.06	0.00	Peak	126	361	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 20MHz Ch 36, 40, 48/ Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

Channel 36

	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	5149.36	72.10	74.00	-1.90	35.00	3.43	33.67	0.00	Peak	152	258	HORIZONTAL
2	5150.00	50.34	54.00	-3.66	13.24	3.43	33.67	0.00	Average	152	258	HORIZONTAL
3	5185.45	114.68	68.30			3.44	33.73	0.00	Peak	152	258	HORIZONTAL
4	5186.25	103.72	68.30			3.44	33.73	0.00	Average	152	258	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5145.83	66.98	74.00	-7.02	29.88	3.43	33.67	0.00	Peak	153	260	HORIZONTAL
2	5150.00	48.29	54.00	-5.71	11.19	3.43	33.67	0.00	Average	153	260	HORIZONTAL
3	5202.24	117.55	68.30			3.45	33.76	0.00	Peak	153	260	HORIZONTAL
4	5203.21	107.54	68.30			3.45	33.76	0.00	Average	153	260	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5144.39	57.92	74.00	-16.08	20.82	3.43	33.67	0.00	Peak	179	260	HORIZONTAL
2	5150.00	45.52	54.00	-8.48	8.42	3.43	33.67	0.00	Average	179	260	HORIZONTAL
3	5233.59	107.00	68.30			3.46	33.82	0.00	Average	179	260	HORIZONTAL
4	5244.81	117.32	68.30			3.46	33.82	0.00	Peak	179	260	HORIZONTAL
5	5368.43	62.27	74.00	-11.73	24.72	3.49	34.06	0.00	Peak	179	260	HORIZONTAL
6	5374.04	45.82	54.00	-8.18	8.26	3.50	34.06	0.00	Average	179	260	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n MCS0 40MHz Ch 38, 46 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

Channel 38

	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	5148.40	66.05	74.00	-7.95	28.95	3.43	33.67	0.00	Peak	152	266	HORIZONTAL
2	5150.00	51.43	54.00	-2.57	14.33	3.43	33.67	0.00	Average	152	266	HORIZONTAL
3	5206.03	106.20	68.30			3.45	33.76	0.00	Peak	152	266	HORIZONTAL
4	5206.99	96.58	68.30			3.45	33.76	0.00	Average	152	266	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5148.40	71.48	74.00	-2.52	34.38	3.43	33.67	0.00	Peak	152	262	HORIZONTAL
2	5150.00	52.32	54.00	-1.68	15.22	3.43	33.67	0.00	Average	152	262	HORIZONTAL
3	5215.58	116.38	68.30			3.45	33.79	0.00	Peak	152	262	HORIZONTAL
4	5242.82	105.92	68.30			3.46	33.82	0.00	Average	152	262	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25.6°C	Humidity	56%
Test Engineer	Robert Chang	Configurations	IEEE 802.11a Ch 36, 38, 40 / Chain 1 (1TX, 2RX)
Test Date	Dec. 23, 2011	Test Mode	Mode 15

Channel 36

	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	5149.04	72.76	74.00	-1.24	35.66	3.43	33.67	0.00	Peak	153	258	HORIZONTAL
2	5150.00	51.45	54.00	-2.55	14.35	3.43	33.67	0.00	Average	153	258	HORIZONTAL
3	5184.33	116.06	68.30			3.44	33.73	0.00	Peak	153	258	HORIZONTAL
4	5185.29	105.52	68.30			3.44	33.73	0.00	Average	153	258	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5148.40	70.11	74.00	-3.89	33.01	3.43	33.67	0.00	Peak	153	265	HORIZONTAL
2	5150.00	48.67	54.00	-5.33	11.57	3.43	33.67	0.00	Average	153	265	HORIZONTAL
3	5194.55	119.22	68.30			3.44	33.76	0.00	Peak	153	265	HORIZONTAL
4	5205.45	108.80	68.30			3.45	33.76	0.00	Average	153	265	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5147.60	58.08	74.00	-15.92	20.98	3.43	33.67	0.00	Peak	152	259	HORIZONTAL
2	5150.00	46.42	54.00	-7.58	9.32	3.43	33.67	0.00	Average	152	259	HORIZONTAL
3	5233.59	108.35	68.30			3.46	33.82	0.00	Average	152	259	HORIZONTAL
4	5244.81	118.24	68.30			3.46	33.82	0.00	Peak	152	259	HORIZONTAL
5	5367.63	47.03	54.00	-6.97	9.48	3.49	34.06	0.00	Average	152	259	HORIZONTAL
6	5369.23	63.80	74.00	-10.20	26.25	3.49	34.06	0.00	Peak	152	259	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

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

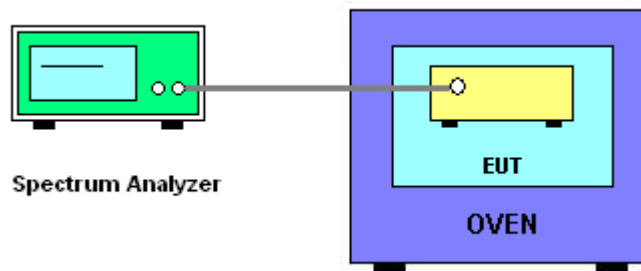
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5200	5300
126.50	5199.9976	5299.9883
110.00	5199.9975	5299.9985
93.50	5200.0030	5300.0050
Max. Deviation (MHz)	0.005600	0.009900
Max. Deviation (ppm)	1.08	1.87

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(°C)	5200	5300
-30	5200.0004	5300.0002
-20	5200.0005	5300.0002
-10	5200.0006	5300.0001
0	5200.0005	5300.0000
10	5199.9887	5299.9986
20	5199.9986	5299.9988
30	5199.9984	5299.9987
40	5199.9986	5299.9988
50	5199.9984	5299.9989
Max. Deviation (MHz)	0.011300	0.001400
Max. Deviation (ppm)	2.17	0.2642

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	Nov. 30, 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	8447D	2944A10991	0.1MHz ~ 1.3GHz	Nov. 17, 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. 29, 2011	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100056	9KHz~40GHz	Nov. 03, 2011	Radiation (05CH01-CB)
EMI Test Receiver	R&S	ESCS 30	100355	9KHz ~ 2.75GHz	Mar. 22, 2011	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	May. 20, 2011	Conducted (TH01-CB)
Thermo-Hygro Meter	N/A	HC 520	#1	15~70 degree	Nov. 02, 2011	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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)
RF Power Splitter	Anaren	42100	17930	2GHz ~ 18GHz	N/A	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