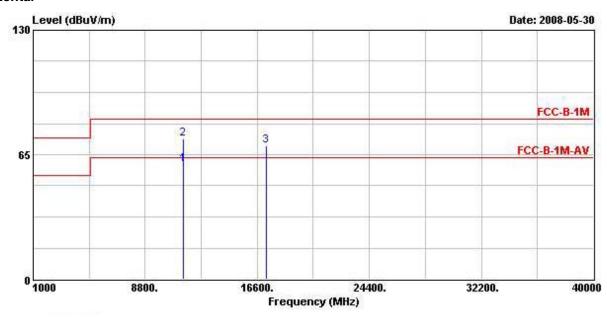
Report No.: FR843032-05AN

For Two Chain:

Test date	May 30, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	5G 802.11n CH 149 (20MHz)

Horizontal



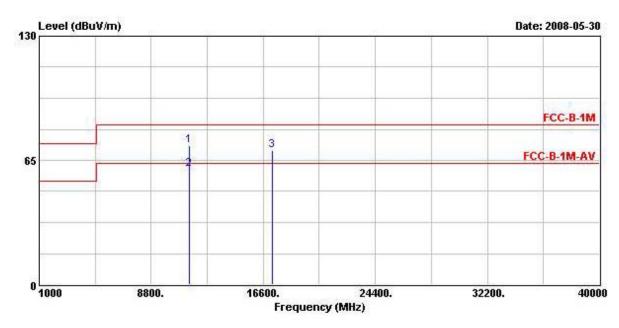
			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1 @	11488.900	59.81	-3.73	63.54	45.66	39.68	6.78	32.31	AVERAGE
2	11488.900	73.05	-10.49	83.54	58.91	39.68	6.78	32.31	Peak
3	17244.000	69.48			46.81	43.40	7.81	28.55	PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 Issued Date
 : Oct. 13, 2008

 FAX: 886-2-2696-2255
 FCC ID
 : TOR-SS300AT



			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	дв	·
1	11488.400	72.99	-10.55	83.54	58.85	39.68	6.78	32.31	Peak
2 @	11488.400	60.29	-3.25	63.54	46.15	39.68	6.78	32.31	AVERAGE
3	17240.000	69.98			47.46	43.26	7.81	28.55	PEAK

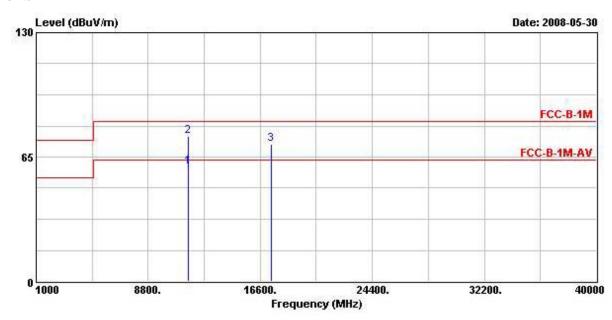
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
 Issued Date : Oct. 13, 2008

 FAX: 886-2-2696-2255
 FCC ID : TOR-SS300AT

Test date	May 30, 2008	Test Site No.	03CH03-HY			
Temperature	26°C	Humidity	54%			
Test Engineer	Duncan	Configuration	5G 802.11n CH 157 (20MHz)			



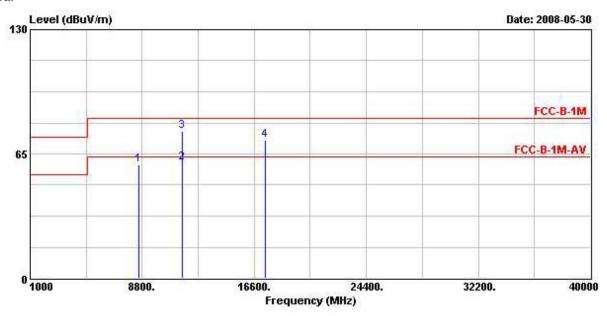
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MXz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	фВ	-
10	11570.500	59.85	-3.69	63.54	46.07	39.63	6.68	32.52	AVERAGE
2	11570.500	76.09	-7.45	83.54	62.30	39.63	6.68	32.52	Peak
3	17364.000	71.60			47.96	44.38	7.83	28.56	PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dВ	
1	8534.000	59.11			48.18	38.32	5.42	32.81	Peak
2 @	11567.500	60.11	-3.43	63.54	46.29	39.63	6.68	32.49	AVERAGE
3	11567.500	76.66	-6.88	83.54	62.85	39.63	6.68	32.49	Peak
4	17356.000	72.01			48.51	44.24	7.82	28.56	PEAK

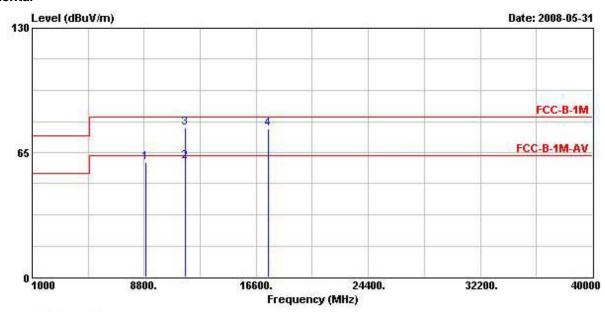
Note: An item 1 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
 Issued Date : Oct. 13, 2008

 FAX: 886-2-2696-2255
 FCC ID : TOR-SS300AT

Test date	May 31, 2008	Test Site No.	03CH03-HY			
Temperature	26°C	Humidity	54%			
Test Engineer	Duncan	Configuration	5G 802.11n CH 165 (20MHz)			



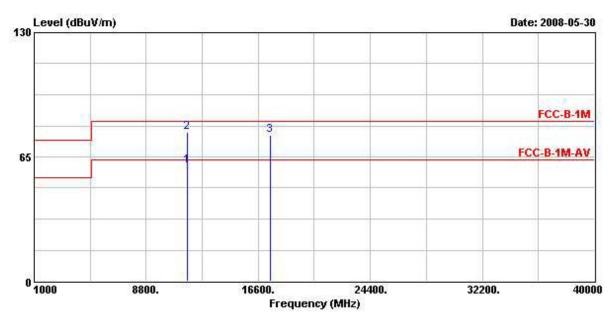
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8941.000	59.76			49.34	38.56	4.67	32.81	Peak
2 @	11652.300	60.40	-3.14	63.54	46.88	39.54	6.57	32.59	AVERAGE
3	11652.300	77.76	-5.78	83.54	64.24	39.54	6.57	32.59	Peak
4	17472.000	77.49			53.00	45.22	7.84	28.57	PEAK

Note: An item 1 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
10	11650.600	60.43	-3.11	63.54	46.90	39.54	6.57	32.59	AVERAGE
2	11650.600	77.75	-5.79	83.54	64.23	39.54	6.57	32.59	Peak
3	17468.000	76.25			51.76	45.22	7.84	28.57	PEAK

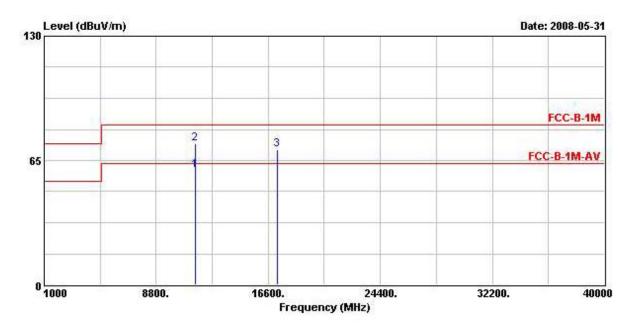
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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 FCC ID : TOR-SS300AT

Test date	May 31, 2008	Test Site No.	03CH03-HY			
Temperature	26°C	Humidity	54%			
Test Engineer	Duncan	Configuration	5G 802.11n CH 151 (40MHz)			



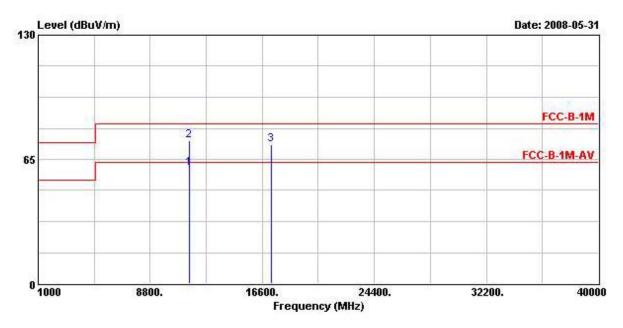
						Antenna			
	Freq	reser	Limit	Line	rever	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1 @	11510.000	59.61	-3.93	63.54	45.63	39.70	6.73	32.45	AVERAGE
2	11510.000	73.99	-9.55	83.54	60.01	39.70	6.73	32.45	Peak
3	17260.000	70.86			48.20	43.40	7.81	28.55	PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	₫В	дв	11
1 0	11511.000	60.14	-3.40	63.54	46.16	39.70	6.73	32.45	AVERAGE
2	11511.000	74.57	-8.97	83.54	60.59	39.70	6.73	32.45	Peak
3	17264.000	72.75			49.95	43.54	7.81	28.55	PEAK

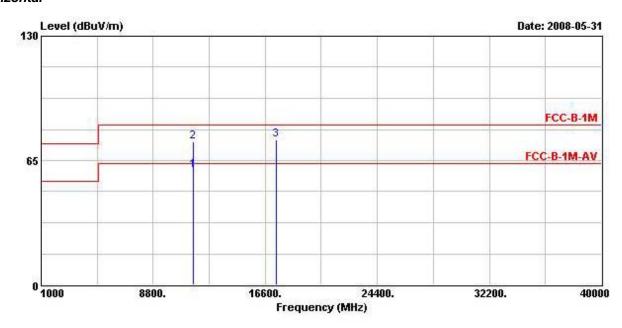
Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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Test date	May 31, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	5G 802.11n CH 159 (40MHz)



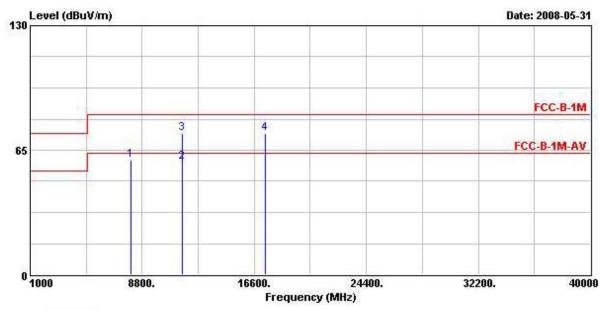
	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
10	11589.600	59.79	-3.75	63.54	46.08	39.61	6.62	32.52	AVERAGE
2	11589.600	74.61	-8.93	83.54	60.89	39.61	6.62	32.52	Peak
3	17380.000	75.58			51.80	44.52	7.83	28.56	PEAK

Note: An item 3 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dВ	dB	1
1	7983.000	59.77			50.09	37.78	4.70	32.80	PEAK
2 @	11590.000	58.89	-4.65	63.54	45.17	39.61	6.62	32.52	AVERAGE
3	11590.000	73.78	-9.76	83.54	60.06	39.61	6.62	32.52	Peak
4	17380.000	73.77			49.99	44.52	7.83	28.56	PEAK

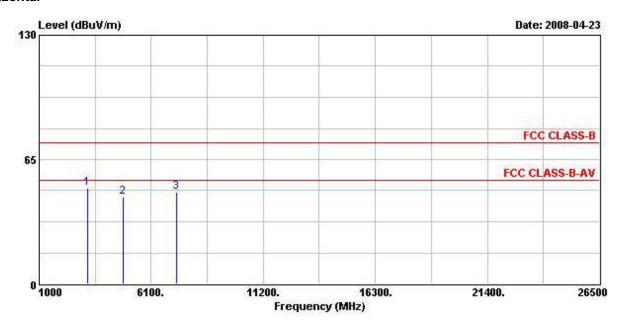
Note: An item 1 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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 FAX: 886-2-2696-2255
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Test date	Apr. 23, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 1 (20MHz)



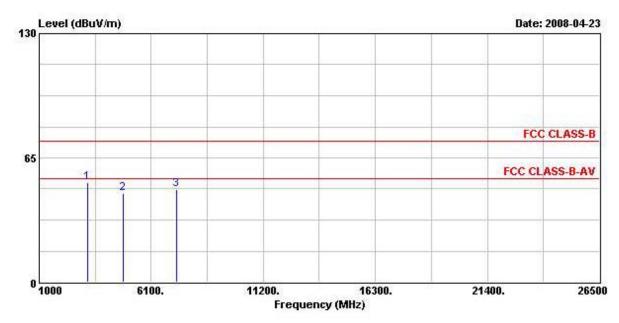
	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	:}
1	3216.000	50.28			50.20	30.51	2.47	32.91	PEAK
2	4824.000	45.65	-8.35	54.00	41.04	33.06	4.03	32.47	PK
3	7236.000	47.92			41.28	35.78	3.67	32.82	PEAK

Note: An item 1 and 3 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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				0ver	Limit	Readi	Antenna	Cable	Preamp	
	F	req	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	*	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	3216.	000	51.99			51.91	30.51	2.47	32.91	PEAK
2	4824.	000	46.61	-7.39	54.00	42.00	33.06	4.03	32.47	PK
3	7236.	000	48.36			41.73	35.78	3.67	32.82	PEAK

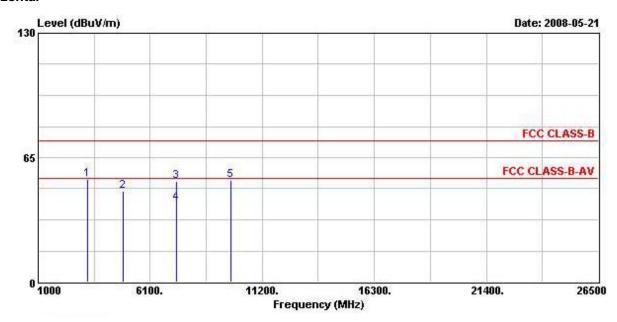
Note: An item 1 and 3 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
 Issued Date : Oct. 13, 2008

 FAX: 886-2-2696-2255
 FCC ID : TOR-SS300AT

Test date	May 21, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 6 (20MHz)



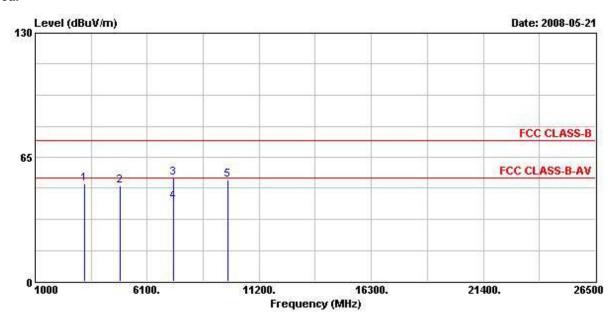
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	3248.000	53.66			53.50	30.58	2.48	32.91	PEAK
2	4874.000	47.40	-6.60	54.00	42.68	33.16	4.02	32.47	PK
3	7308.000	52.62	-21.38	74.00	45.61	35.94	3.91	32.85	PEAK
4	7308.000	41.42	-12.58	54.00	34.41	35.94	3.91	32.85	Average
5	9748.000	53.17			42.16	38.62	5.31	32.92	PEAK

Note: An item 1 and 5 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	ф	dBuV/m	dBuV	dB/m	ав	dB	Ĭ -
1	3248.000	51.25			51.09	30.58	2.48	32.91	PEAK
2 @	4874.000	50.17	-3.83	54.00	45.45	33.16	4.02	32.47	PK
3	7316.000	54.04	-19.96	74.00	47.01	35.99	3.91	32.87	PEAK
4	7316.000	41.90	-12.10	54.00	34.87	35.99	3.91	32.87	Average
5	9748.000	53.22			42.22	38.62	5.31	32.92	PEAK

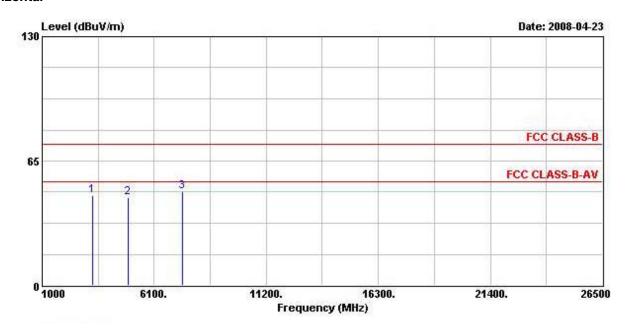
Note: An item 1 and 5 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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Test date	Apr. 23, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 11 (20MHz)



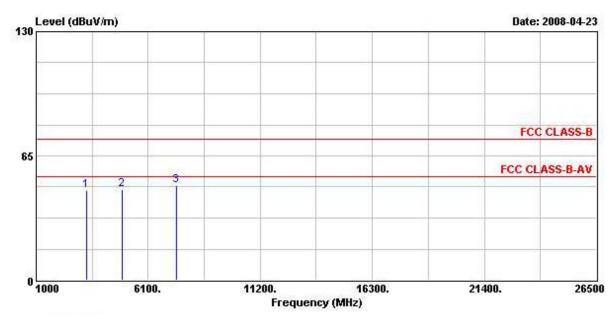
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dВ	1
1	3280.000	47.20			46.98	30.65	2.48	32.91	PEAK
2	4924.000	46.11	-7.89	54.00	41.29	33.26	4.02	32.46	PK
3	7386.000	49.09	-4.91	54.00	41.68	36.15	4.16	32.90	PK

Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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		Over	Limit	Readi	Antenna	Cable	Preamp	
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dB	1
3280.000	46.84			46.62	30.65	2.48	32.91	PEAK
4924.000	47.50	-6.50	54.00	42.69	33.26	4.02	32.46	PK
7386.000	49.31	-4.69	54.00	41.90	36.15	4.16	32.90	PK
	MHz 3280.000 4924.000	MHz dBuV/m 3280.000 46.84 4924.000 47.50	### Hevel Limit MHz dBuV/m dB	### Hevel Limit Line MHz dBuV/m dB dBuV/m 3280.000 46.84 4924.000 47.50 -6.50 54.00	### Hevel Limit Line Level MHz dBuV/m dB dBuV/m dBuV	### Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m	### Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB	3280.000 46.84 46.62 30.65 2.48 32.91 4924.000 47.50 -6.50 54.00 42.69 33.26 4.02 32.46

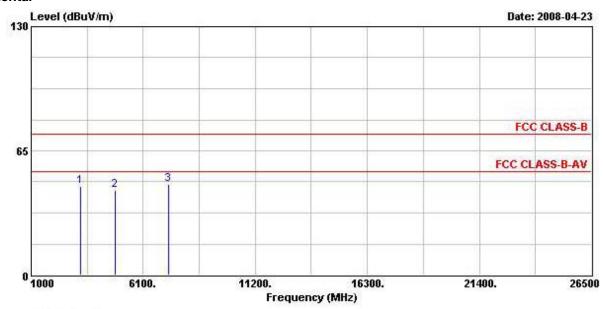
Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
 Issued Date
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Test date	Apr. 23, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 3 (40MHz)



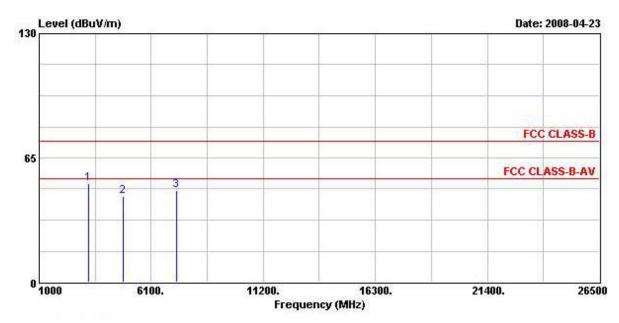
		Over	Limit	Readi	Antenna	Cable	Preamp	
Freq	Level	Limit	Line	Level Factor	Factor	Loss Factor		Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	:
3228.000	46.33			46.21	30.55	2.47	32.91	PEAK
4844.000	44.21	-9.79	54.00	39.56	33.09	4.02	32.47	PK
7266.000	47.43	-6.57	54.00	40.61	35.86	3.79	32.83	PK
	MHz 3228.000 4844.000	MHz dBuV/m 3228.000 46.33 4844.000 44.21	### Hevel Limit MHz dBuV/m dB	### Freq Level Limit Line MHz dBuV/m dB dBuV/m 3228.000 46.33	### Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV	### Freq Level Limit Line Level Factor MHz	### Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB	3228.000 46.33 46.21 30.55 2.47 32.91 4844.000 44.21 -9.79 54.00 39.56 33.09 4.02 32.47

Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	:
1	3228.000	51.67			51.55	30.55	2.47	32.91	PEAK
2	4844.000	45.13	-8.87	54.00	40.49	33.09	4.02	32.47	PK
3	7266.000	48.01	-5.99	54.00	41.19	35.86	3.79	32.83	PK

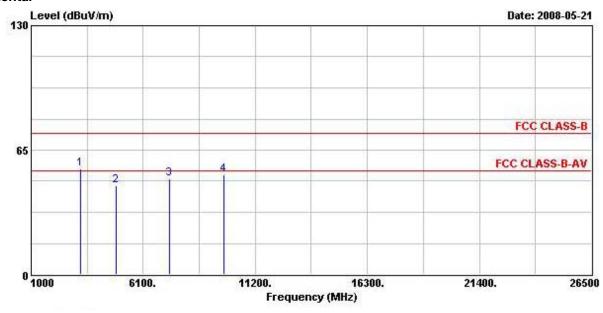
Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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 TEL: 886-2-2696-2468
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 FAX: 886-2-2696-2255
 FCC ID : TOR-SS300AT

Test date	May 21, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 6 (40MHz)



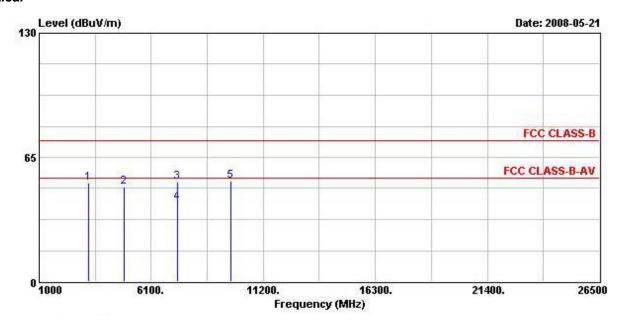
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	3248.000	55.25			55.10	30.58	2.48	32.91	PEAK
2	4874.000	46.26	-7.74	54.00	41.54	33.16	4.02	32.47	PK
3 @	7304.000	50.16	-3.84	54.00	43.15	35.94	3.91	32.85	PK
4	9752.000	51.96			40.95	38.62	5.31	32.92	PEAK

Note: An item 1 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	4
1	3248.000	51.84			51.69	30.58	2.48	32.91	PEAK
2	4878.000	49.71	-4.29	54.00	45.00	33.16	4.02	32.47	PK
3	7316.000	52.03	-21.97	74.00	45.00	35.99	3.91	32.87	PEAK
4	7316.000	41.34	-12.66	54.00	34.31	35.99	3.91	32.87	Average
5	9744.000	52.77			41.79	38.58	5.31	32.92	PEAK

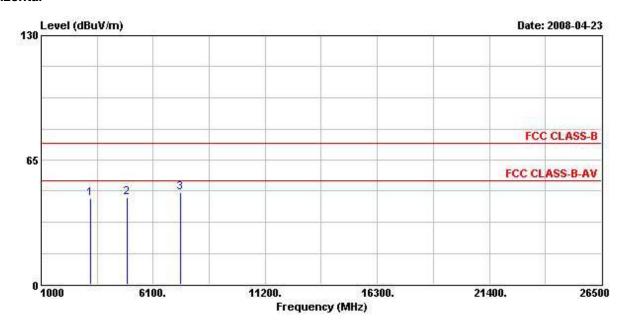
Note: An item 1 and 5 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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Test date	Apr. 23, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Test Engineer	Duncan	Configuration	2.4G 802.11n CH 9 (40MHz)



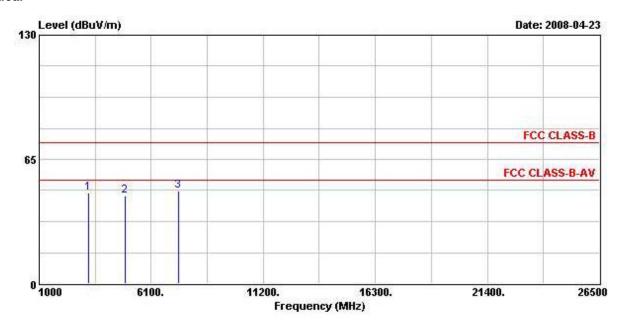
			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i i
1	3268.000	44.82			44.63	30.62	2.48	32.91	PEAK
2	4904.000	45.56	-8.44	54.00	40.78	33.23	4.02	32.47	PK
3	7356.000	47.80	-6.20	54.00	40.58	36.07	4.03	32.88	PK

Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	Mkz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	3268.000	47.50			47.31	30.62	2.48	32.91	PEAK
2	4904.000	46.02	-7.98	54.00	41.24	33.23	4.02	32.47	PK
3	7356.000	48.29	-5.71	54.00	41.07	36.07	4.03	32.88	PK

Note: An item 1 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions (see section 3.6.7).

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

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

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

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3.6 Band Edge and Fundamental Emissions Measurement

3.6.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Report No.: FR843032-05AN

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

3.6.2 Measuring Instruments and Setting

Please refer to section 4 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)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

3.6.3 Test Procedures

- 1. The test procedure is the same as section 3.5.3; only the frequency range investigated is limited to 100MHz around bandedges.
- 2. 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.

3.6.4 Test Setup Layout

This test setup layout is the same as that shown in section 3.5.4.

3.6.5 Test Deviation

There is no deviation with the original standard.

3.6.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.6.7 Test Result of Band Edge and Fundamental Emissions

For Single Chain:

Test date	Apr. 25, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Toot Engineer	Dungon	Configuration	2.4G 802.11n CH 1, 6, 11
Test Engineer	Duncan	Configuration	(20MHz)

Channel 1

			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	
1	2390.000	69.41	-4.59	74.00	38.93	28.29	2.19	0.00	Peak
2 @	2412.220	107.96			77.45	28.33	2.19	0.00	Peak
1 0	2390.000	52.22	-1.78	54.00	21.74	28.29	2.19	0.00	Average
2 @	2412.220	98.28			67.77	28.33	2.19	0.00	Average

An item 2 is Fundamental Emissions.

Channel 6

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	МКг	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2386.380	64.63	-9.37	74.00	34.15	28.29	2.19	0.00	Peak
2 @	2439.580	113.67			83.06	28.40	2.22	0.00	Peak
3	2490.690	62.22	-11.78	74.00	31.47	28.50	2.25	0.00	Peak
1 0	2386.570	52.79	-1.21	54.00	22.31	28.29	2.19	0.00	Average
2 @	2431.980	104.35			73.77	28.36	2.22	0.00	Average
3	2486.700	47.83	-6.17	54.00	17.12	28.47	2.25	0.00	Average

An item 2 is Fundamental Emissions.

Channel 11

	Freq	Level	Over Limit	Limit Line		Antenna Factor		UNDS 100 100	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 0	2461.810	105.33			74.68	28.43	2.22	0.00	Peak
2 @	2484.420	70.59	-3.41	74.00	39.88	28.47	2.25	0.00	Peak
1 0	2461.810	95.66			65.01	28.43	2.22	0.00	Average
2 @	2483.500	52.77	-1.23	54.00	22.06	28.47	2.25	0.00	Average

An item 1 is Fundamental Emissions.

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Test date	Apr. 25, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
Took Engineer	Dungan	Configuration	2.4G 802.11n CH 3, 6, 9
Test Engineer	Duncan	Configuration	(40MHz)

Channel 3

			Over	Limit	Readi	Intenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2390.000	69.99	-4.01	74.00	39.51	28.29	2.19	0.00	Peak
2 @	2422.200	102.19			71.64	28.36	2.19	0.00	Peak
1 0	2390.000	51.66	-2.34	54.00	21.18	28.29	2.19	0.00	Average
2 @	2422.200	98.87			68.32	28.36	2.19	0.00	Average

An item 2 is Fundamental Emissions.

Channel 6

			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	1 Limit	t Line	Level	Factor	Loss	Factor	Remark
	Mtz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2388.850	67.27	-6.73	74.00	36.79	28.29	2.19	0.00	Peak
2 @	2436.730	106.81			76.20	28.40	2.22	0.00	Peak
3	2483.850	62.09	-11.91	74.00	31.38	28.47	2.25	0.00	Peak
1 0	2390.000	52.81	-1.19	54.00	22.33	28.29	2.19	0.00	Average
2 @	2436.730	100.80			70.19	28.40	2.22	0.00	Average
3	2483.500	49.73	-4.27	54.00	19.02	28.47	2.25	0.00	Average

An item 2 is Fundamental Emissions.

Channel 9

				Over	Limit	Readi	Antenna	Cable	Preamp	
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	0	2438.250	101.02			70.41	28.40	2.22	0.00	Peak
2	9	2483.500	70.62	-3.38	74.00	39.91	28.47	2.25	0.00	Peak
1	9	2438.250	90.37			59.76	28.40	2.22	0.00	Average
2	0	2483.500	51.49	-2.51	54.00	20.78	28.47	2.25	0.00	Average

An item 1 is Fundamental Emissions.

Note:

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

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

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For Two Chain:

Test date	Apr. 25, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
			2.4G 802.11n Ant. A & B
Test Engineer	Duncan	Configuration	CH 1, 6, 11
			(20MHz)

Channel 1

	Freq	Level	Over Limit	Limit Line		Antenna Factor		GA26 100 TO	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	- dB	
1 0	2390.000	70.49	-3.51	74.00	40.01	28.29	2.19	0.00	Peak
2 @	2412.220	108.72			78.21	28.33	2.19	0.00	Peak
1 0	2390.000	52.85	-1.15	54.00	22.37	28.29	2.19	0.00	Average
2 @	2412.220	97.15			66.64	28.33	2.19	0.00	Average

An item 2 is Fundamental Emissions.

Channel 6

			0ver	Limit		Antenna		UNION 1012 TO	
	Freq	Level	1 Limit	Line	Level	Factor	Loss	Factor	Remark
	MXz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2378.970	63.03	-10.97	74.00	32.62	28.26	2.16	0.00	Peak
2 @	2442.050	115.55			84.94	28.40	2.22	0.00	Peak
3	2492.210	61.12	-12.88	74.00	30.37	28.50	2.25	0.00	Peak
1 @	2383.340	51.12	-2.88	54.00	20.71	28.26	2.16	0.00	Average
2 @	2442.050	104.67			74.06	28.40	2.22	0.00	Average
3	2483.500	49.20	-4.80	54.00	18.49	28.47	2.25	0.00	Average

An item 2 is Fundamental Emissions.

Channel 11

			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	2459.530	111.74			81.09	28.43	2.22	0.00	Peak
2	2484.610	67.97	-6.03	74.00	37.26	28.47	2.25	0.00	Peak
1 0	2459.530	100.57			69.92	28.43	2.22	0.00	Average
2 @	2483.500	52.04	-1.96	54.00	21.33	28.47	2.25	0.00	Average

An item 1 is Fundamental Emissions.

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Test date	Apr. 25, 2008	Test Site No.	03CH03-HY
Temperature	26°C	Humidity	54%
			2.4G 802.11n Ant. A & B
Test Engineer	Duncan	Configuration	CH 3, 6, 9
			(40MHz)

Channel 3

	Freq	Level	Over Limit	Limit Line		Antenna Factor		MARK 100 TO	
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2390.000	67.91	-6.09	74.00	37.43	28.29	2.19	0.00	Peak
2 @	2426.660	102.94			72.36	28.36	2.22	0.00	Peak
1 0	2390.000	52.63	-1.37	54.00	22.15	28.29	2.19	0.00	Average
2 @	2426.660	91.35			60.77	28.36	2.22	0.00	Average

An item 2 is Fundamental Emissions.

Channel 6

			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	<u>ав</u>	dB	
1	2389.610	66.02	-7.98	74.00	35.54	28.29	2.19	0.00	Peak
2 @	2437.300	107.03			76.42	28.40	2.22	0.00	Peak
3	2485.370	60.52	-13.48	74.00	29.81	28.47	2.25	0.00	Peak
1 @	2390.000	51.95	-2.05	54.00	21.47	28.29	2.19	0.00	Average
2 @	2436.730	99.89			69.28	28.40	2.22	0.00	Average
3	2483.500	48.99	-5.01	54.00	18.28	28.47	2.25	0.00	Average

An item 2 is Fundamental Emissions.

Channel 9

	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	ME	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1 0	2447.370	105.44			74083	28.40	2.22	0.00	Peak
2	2483.500	68.03	-5.97	74.00	37 32	28.47	2.25	0.00	Peak
1 0	2447.370	94.01			63.40	28.40	2.22	0.00	Average
2 @	2483.500	52.66	-1.34	54.00	21.95	28.47	2.25	0.00	Average

An item 1 is Fundamental Emissions.

Note:

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

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

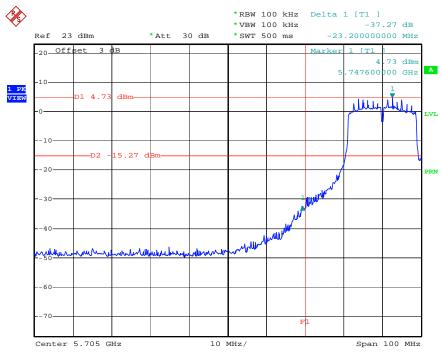
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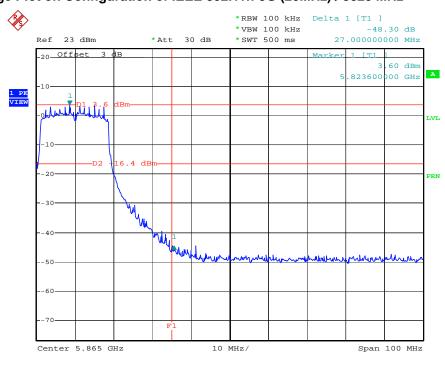
For Single Chain Emission not in Restricted Band

Low Band Edge Plot on Configuration of IEEE 802.11n-5G (20MHz) / 5745 MHz



Date: 17.MAY.2008 01:06:45

High Band Edge Plot on Configuration of IEEE 802.11n-5G (20MHz) / 5825 MHz



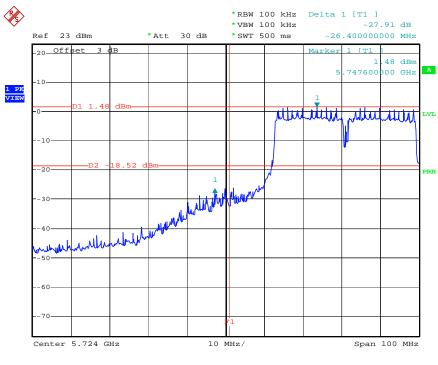
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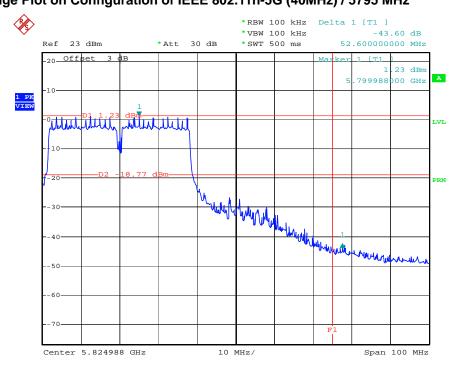
 FAX: 886-2-2696-2255
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Low Band Edge Plot on Configuration of IEEE 802.11n-5G (40MHz) / 5755 MHz



High Band Edge Plot on Configuration of IEEE 802.11n-5G (40MHz) / 5795 MHz

17.MAY.2008 01:32:33



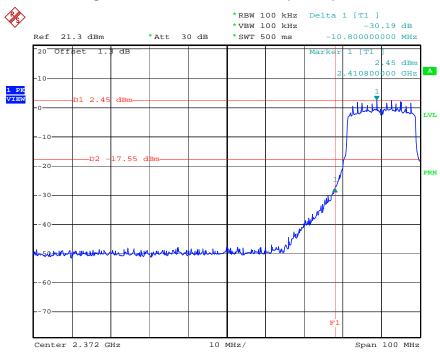
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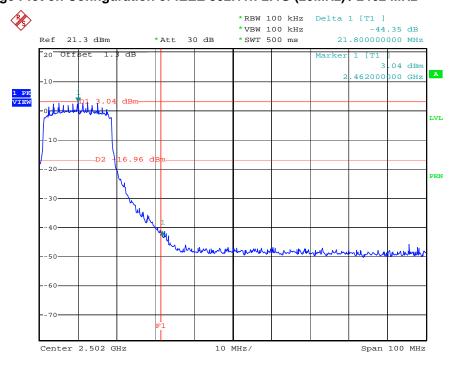
 FAX: 886-2-2696-2255
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Low Band Edge Plot on Configuration of IEEE 802.11n-2.4G (20MHz) / 2412 MHz



Date: 12.MAY.2008 14:36:21

High Band Edge Plot on Configuration of IEEE 802.11n-2.4G (20MHz) / 2462 MHz



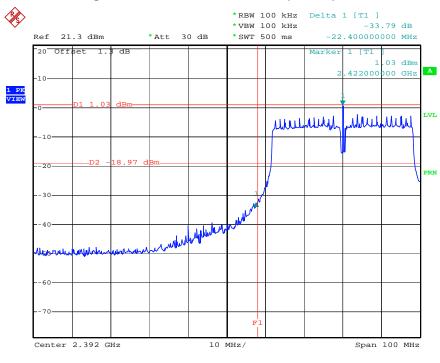
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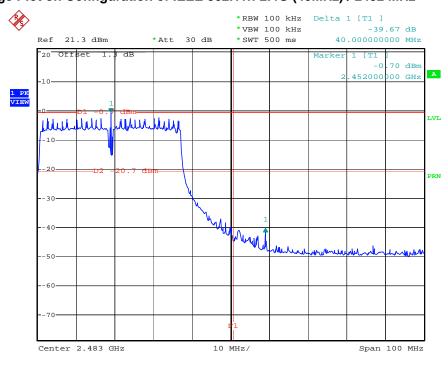
 FAX: 886-2-2696-2255
 FCC ID
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Low Band Edge Plot on Configuration of IEEE 802.11n-2.4G (40MHz) / 2422 MHz



Date: 12.MAY.2008 15:43:04

High Band Edge Plot on Configuration of IEEE 802.11n-2.4G (40MHz) / 2452 MHz



Date: 12.MAY.2008 15:44:27

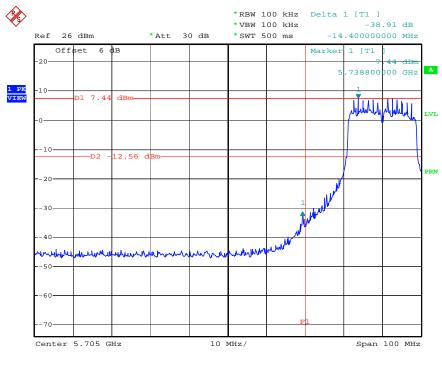
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For Two Chain Emission not in Restricted Band

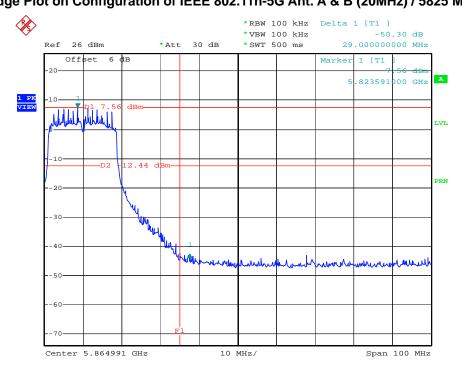
Low Band Edge Plot on Configuration of IEEE 802.11n-5G Ant. A & B (20MHz) / 5745 MHz



High Band Edge Plot on Configuration of IEEE 802.11n-5G Ant. A & B (20MHz) / 5825 MHz

1.JUN.2008 18:12:05

Date:



Date: 1.JUN.2008 18:17:48

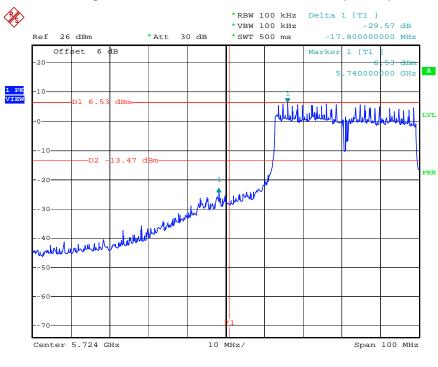
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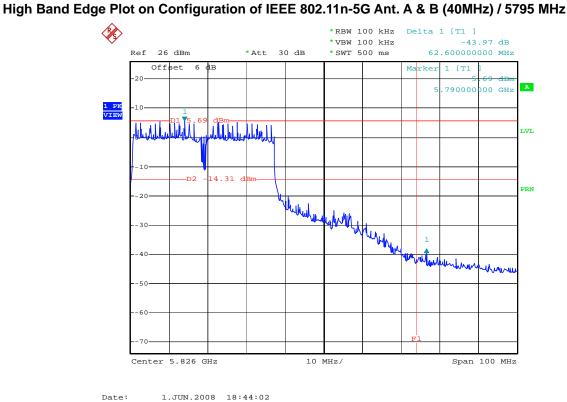
 FAX: 886-2-2696-2255
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FAX: 886-2-2696-2255

Low Band Edge Plot on Configuration of IEEE 802.11n-5G Ant. A & B (40MHz) / 5755 MHz



Date: 1.JUN.2008 18:46:38



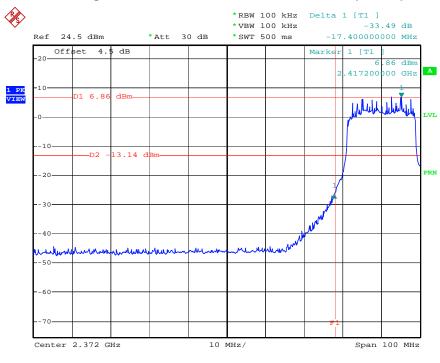
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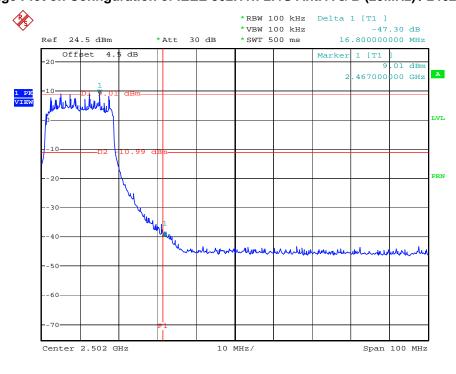
: TOR-SS300AT

Low Band Edge Plot on Configuration of IEEE 802.11n-2.4G Ant. A & B (20MHz) / 2412 MHz



Date: 12.MAY.2008 16:18:18

High Band Edge Plot on Configuration of IEEE 802.11n-2.4G Ant. A & B (20MHz) / 2462 MHz



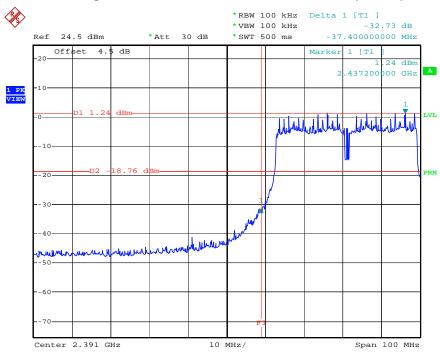
Date: 12.MAY.2008 16:29:30

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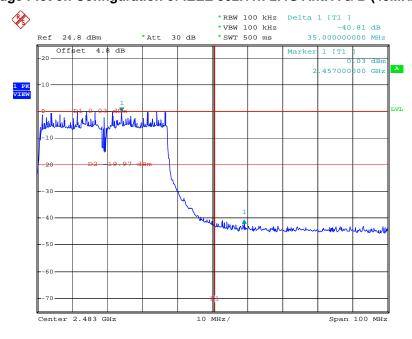
 FAX: 886-2-2696-2255
 FCC ID
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Low Band Edge Plot on Configuration of IEEE 802.11n-2.4G Ant. A & B (40MHz) / 2422 MHz



Date: 12.MAY.2008 20:10:33

High Band Edge Plot on Configuration of IEEE 802.11n-2.4G Ant. A & B (40MHz) / 2452 MHz



Date: 28.MAY.2008 12:26:08

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FCC TEST REPORT Report No.: FR843032-05AN

3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Connector Construction

Please refer to section 2.3 in this test report; antenna connector complied with the requirements.

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4 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Receiver	R&S	ESCS 30	836858/024	9 kHz - 2.75 GHz	Sep. 11, 2007	Conduction (CO01-LK)
LISN	SCHAFFNER	NNB-41	98087	9 kHz - 30 MHz	Sep. 21, 2007	Conduction (CO01-LK)
RF Cable-CON	Suhner Switzerland	RG223/U	CB017	9 kHz - 30 MHz	Nov. 30, 2007	Conduction (CO01-LK)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2007	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2007	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2007	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)

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

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2007	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jun. 07, 2007	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz - 40 GHz	Sep. 27, 2007	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Mar. 04, 2008	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 22, 2008*	Radiation (03CH03-HY)

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

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5 TEST LOCATION

SHIJR ADD : 6FI., 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 : 7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626 NEIHU ADD : 4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
FAX : 886-2-2696-2255 HWA YA
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 : 7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2020
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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
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 : 7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
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TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
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

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TAF CERTIFICATE OF ACCREDITATION



Certificate No. : L1190-070110

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 Rd., 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, 2007 to January 09, 2010

Accredited Scope

: Testing Field, see described in the Appendix

Accreditation Program for Designated Testing Laboratory

Specific Accreditation

Program

for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory

Jay-San Chen

President, Taiwan Accreditation Foundation

Date ! January 10, 2007

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

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