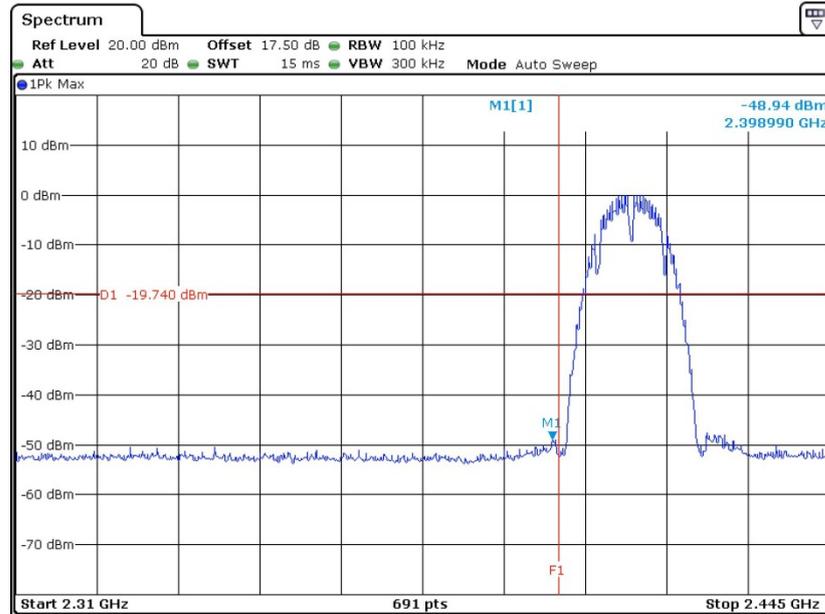




3.4.5 Test Plots of Conducted Band Edges

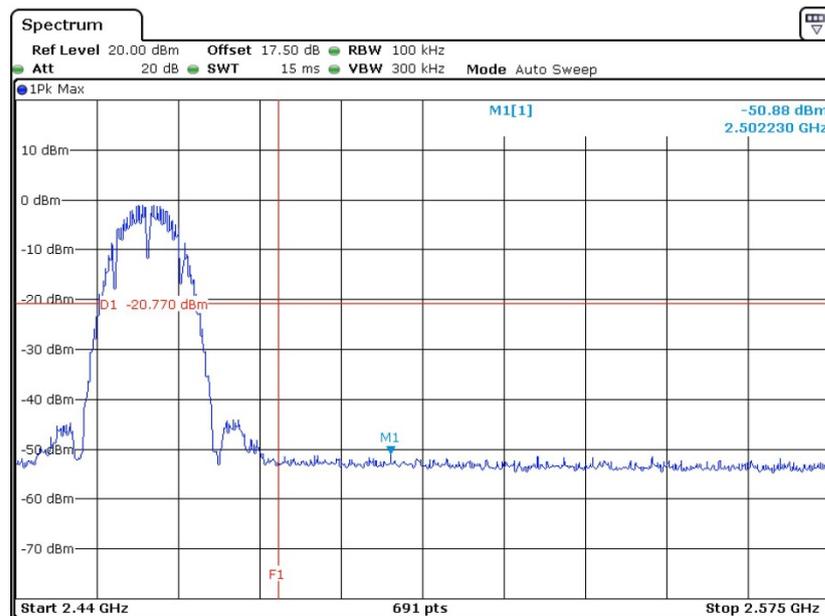
Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Fly Chen

Low Band Edge Plot on 802.11b Channel 01



Date: 5.MAY.2013 10:16:18

High Band Edge Plot on 802.11b Channel 11

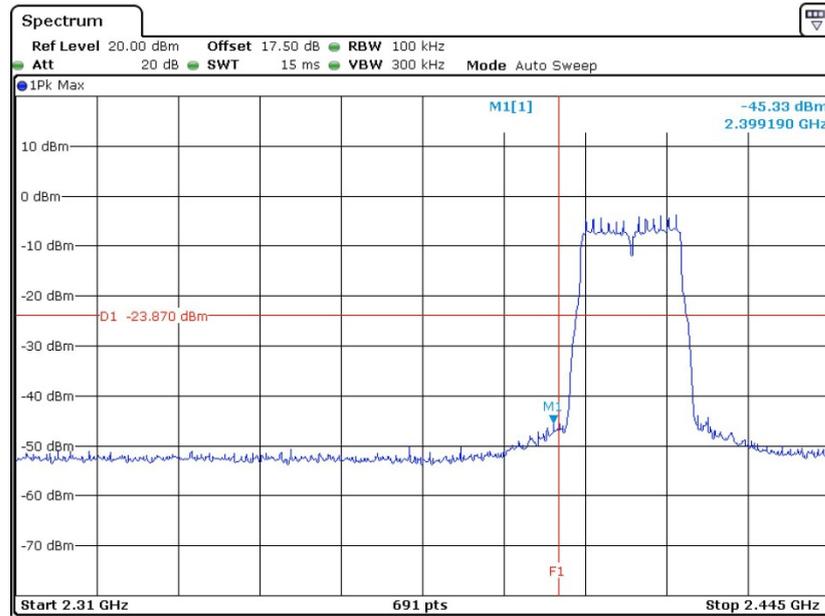


Date: 5.MAY.2013 10:23:43



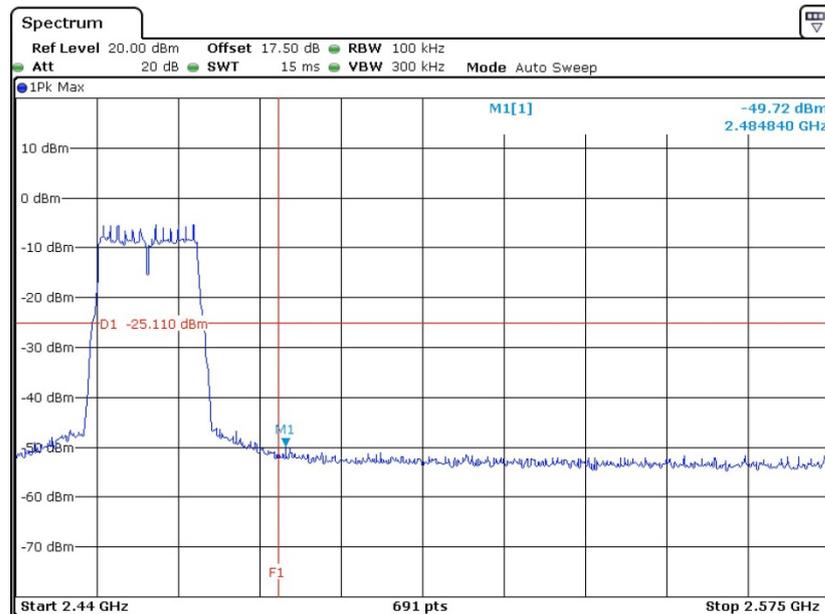
Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Fly Chen

Low Band Edge Plot on 802.11g Channel 01



Date: 5.MAY.2013 10:19:30

High Band Edge Plot on 802.11g Channel 11

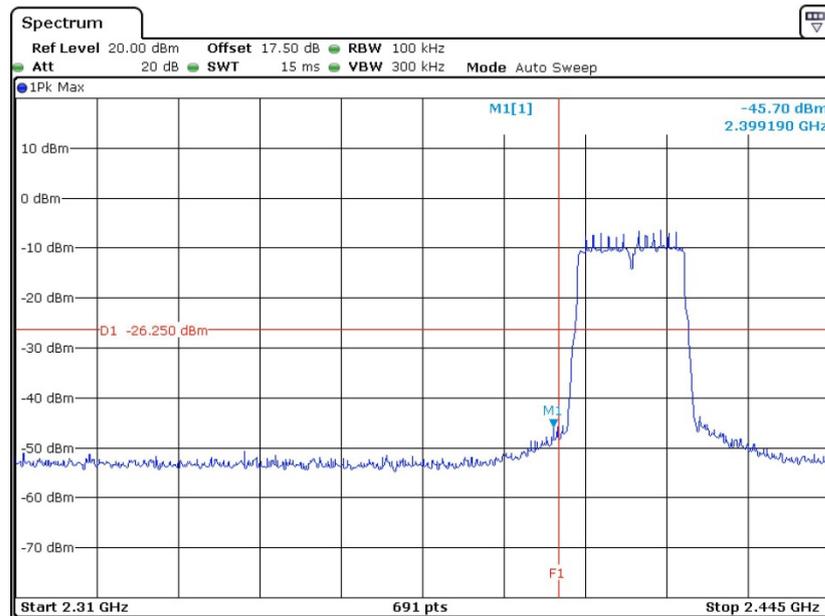


Date: 5.MAY.2013 10:23:00



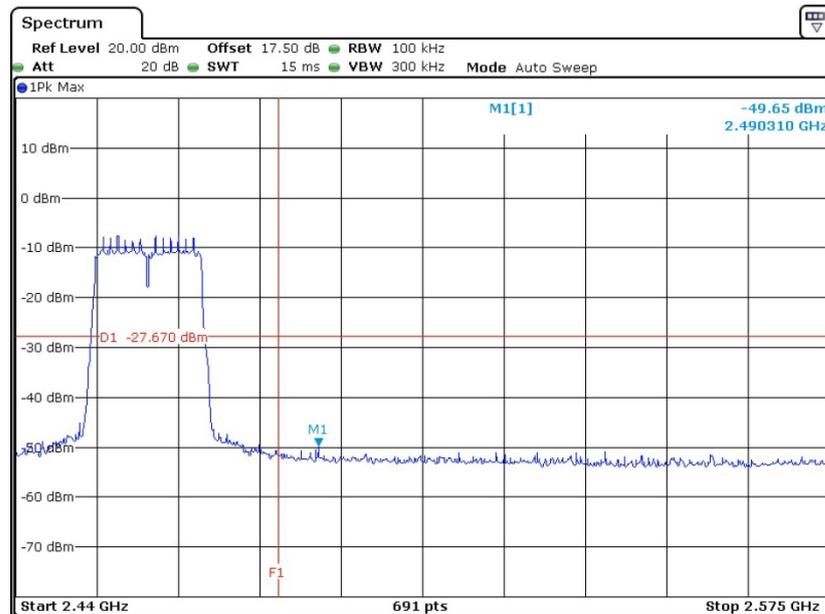
Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Fly Chen

Low Band Edge Plot on 802.11n HT20 Channel 01



Date: 5.MAY.2013 10:20:16

High Band Edge Plot on 802.11n HT20 Channel 11



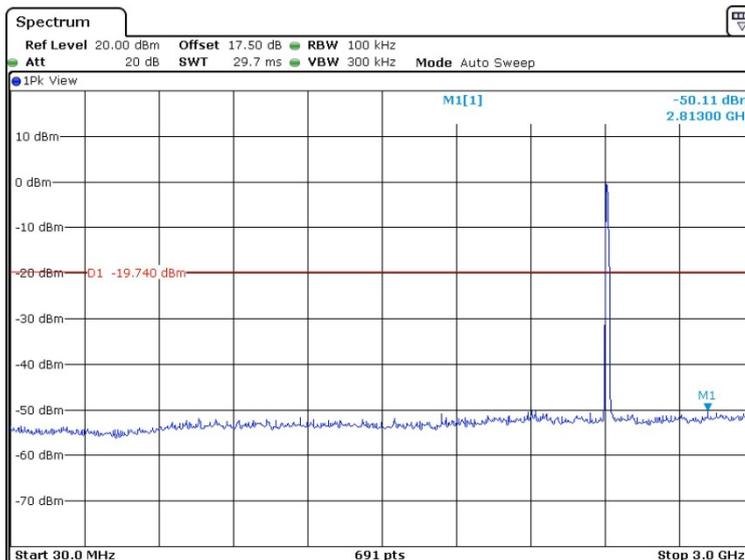
Date: 5.MAY.2013 10:22:15

3.4.6 Test Plots of Spurious Emission

Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Fly Chen

802.11b 30 MHz~3 GHz

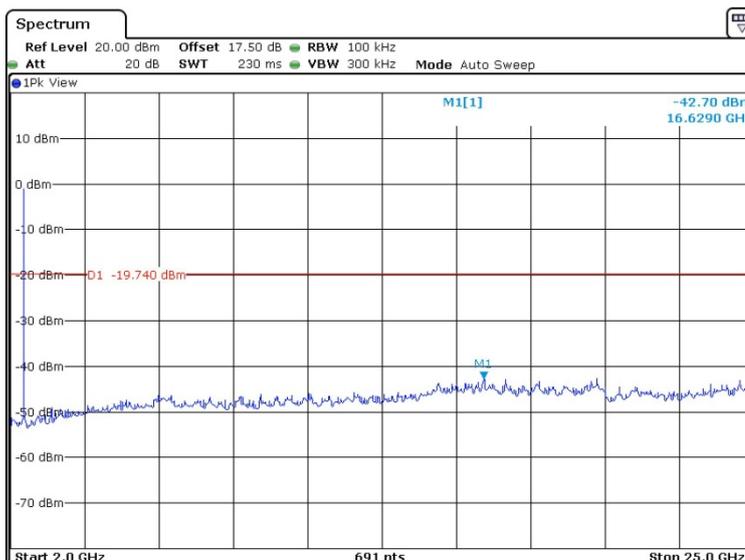
Conducted Spurious Emission Plot on Channel 01



Date: 5.MAY.2013 10:34:40

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01

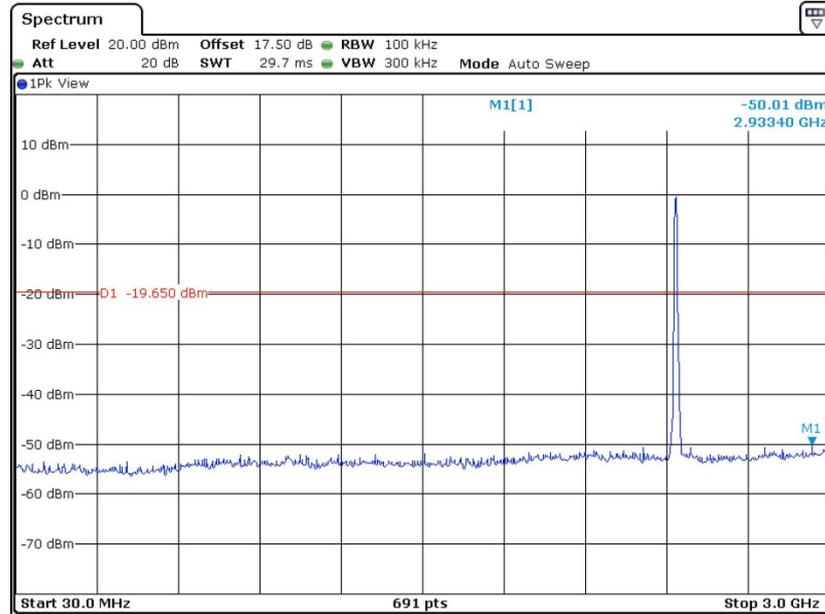


Date: 5.MAY.2013 10:36:22



802.11b 30 MHz~3 GHz

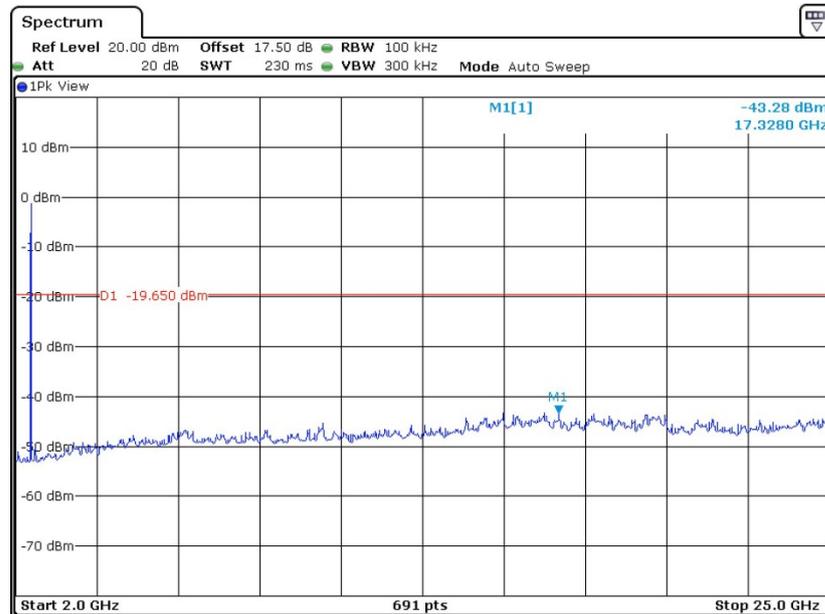
Conducted Spurious Emission Plot on Channel 06



Date: 5.MAY.2013 10:38:01

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

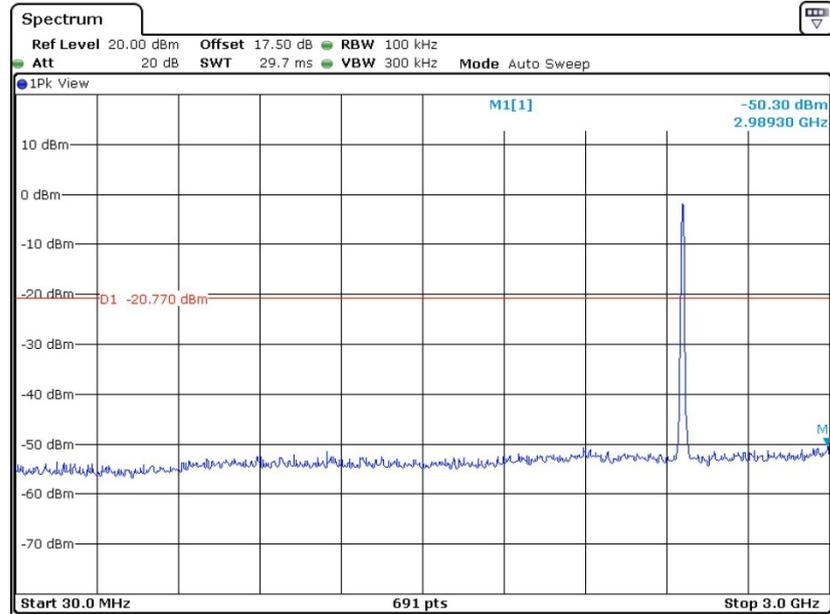


Date: 5.MAY.2013 10:37:16



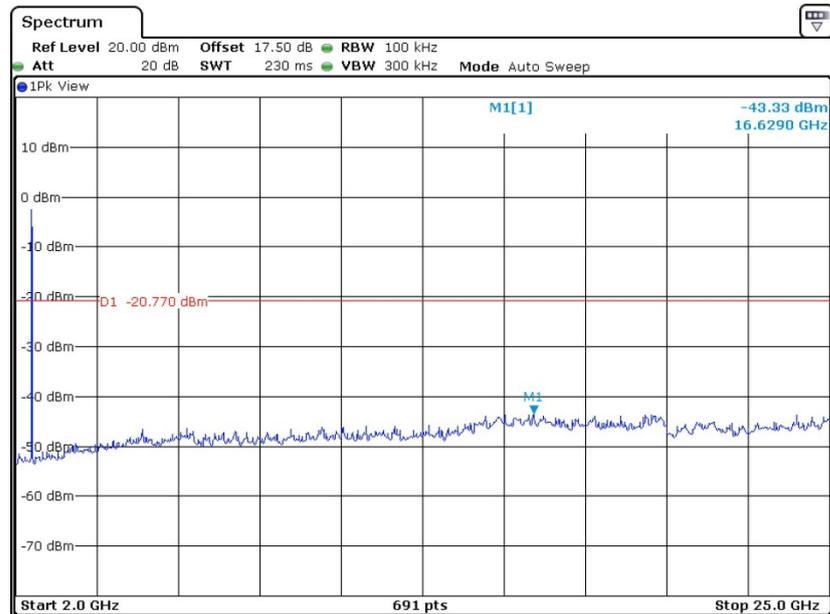
802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11

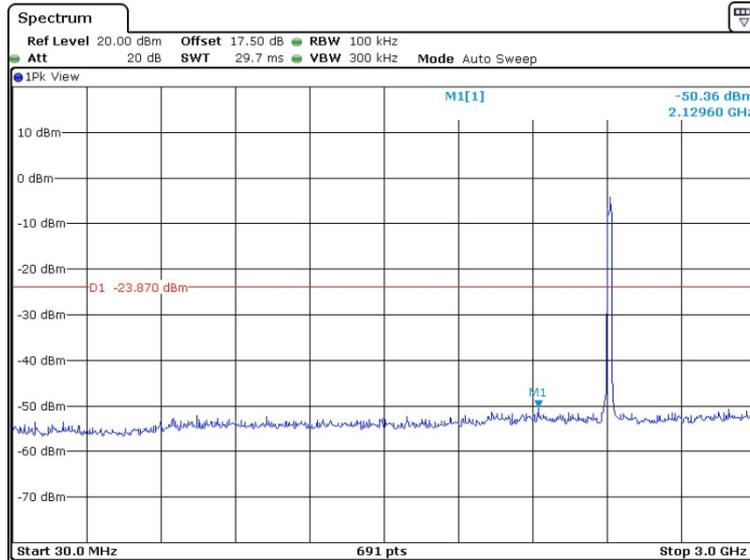




Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Fly Chen

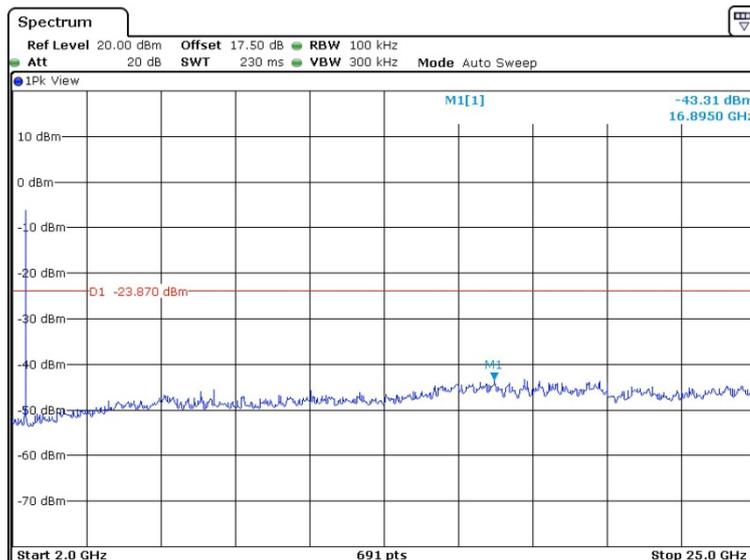
802.11g 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01



802.11g 2 GHz~25 GHz

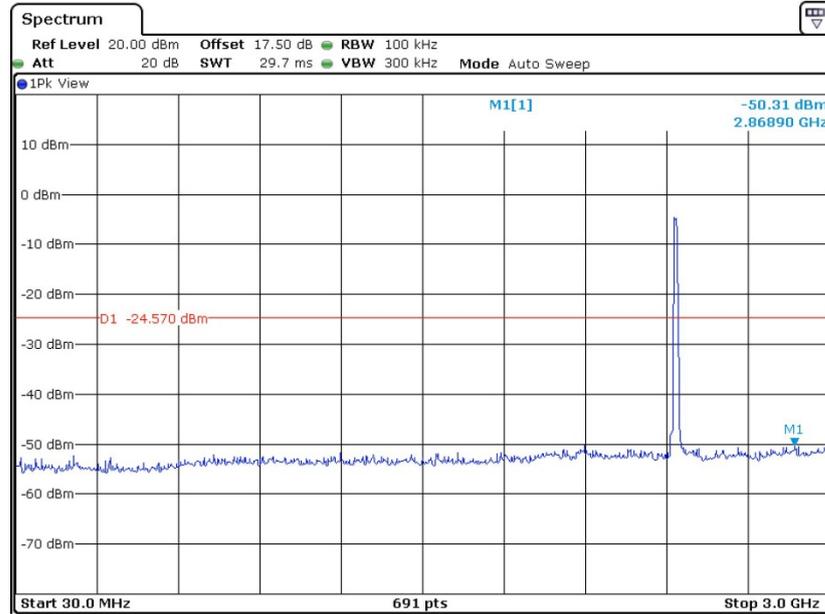
Conducted Spurious Emission Plot on Channel 01





802.11g 30 MHz~3 GHz

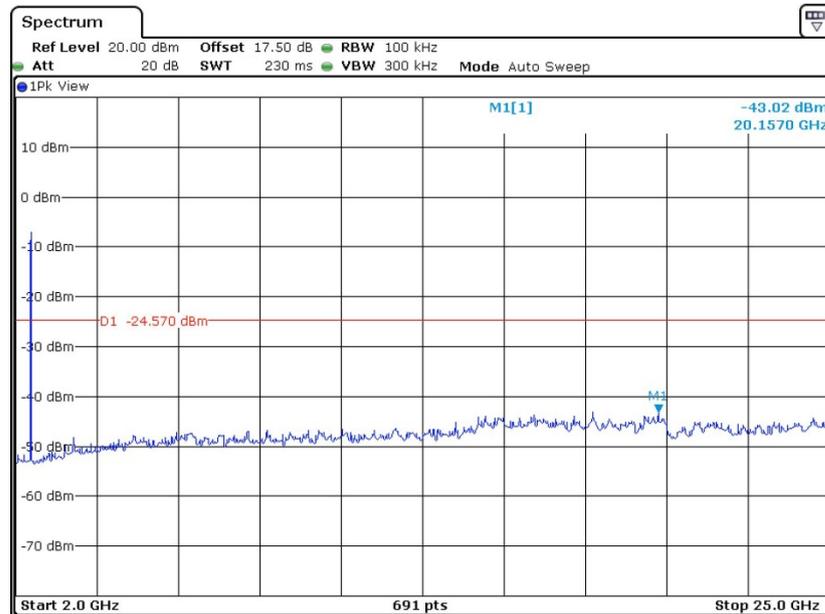
Conducted Spurious Emission Plot on Channel 06



Date: 5.MAY.2013 10:43:38

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

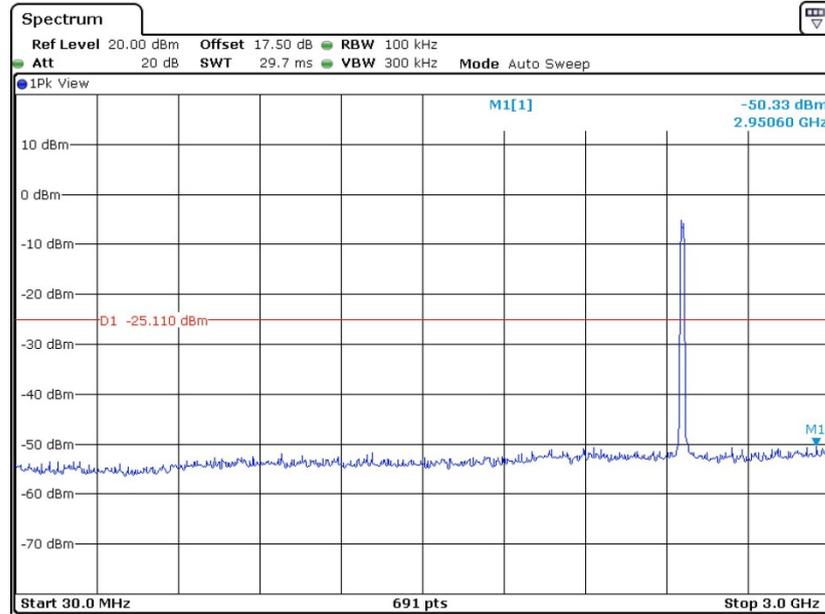


Date: 5.MAY.2013 10:44:35



802.11g 30 MHz~3 GHz

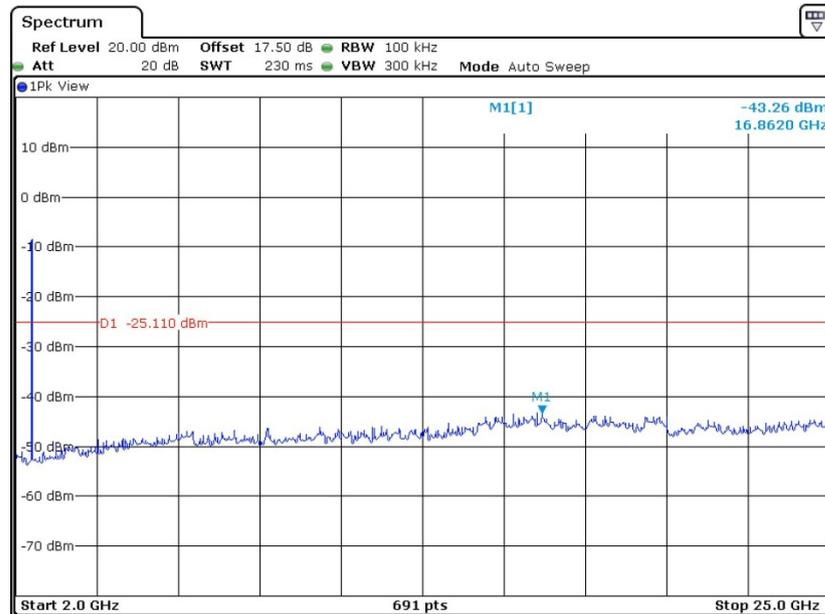
Conducted Spurious Emission Plot on Channel 11



Date: 5.MAY.2013 10:47:43

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



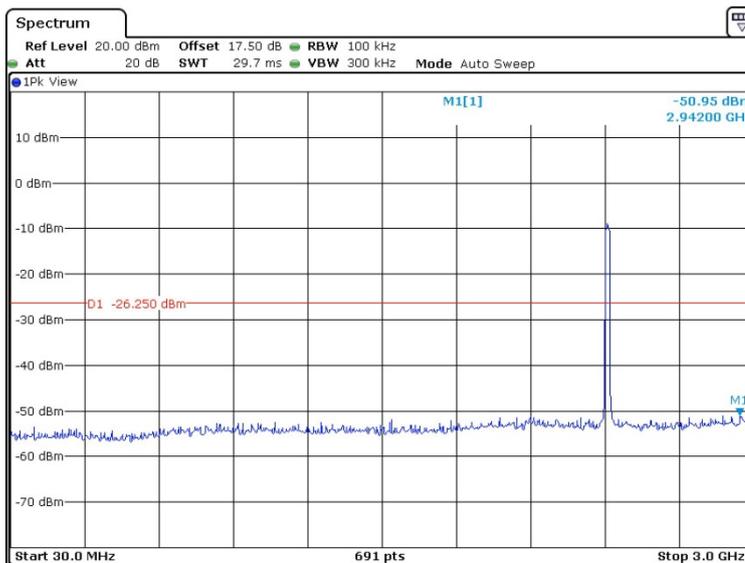
Date: 5.MAY.2013 10:46:34



Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Fly Chen

802.11n HT20 30 MHz~3 GHz

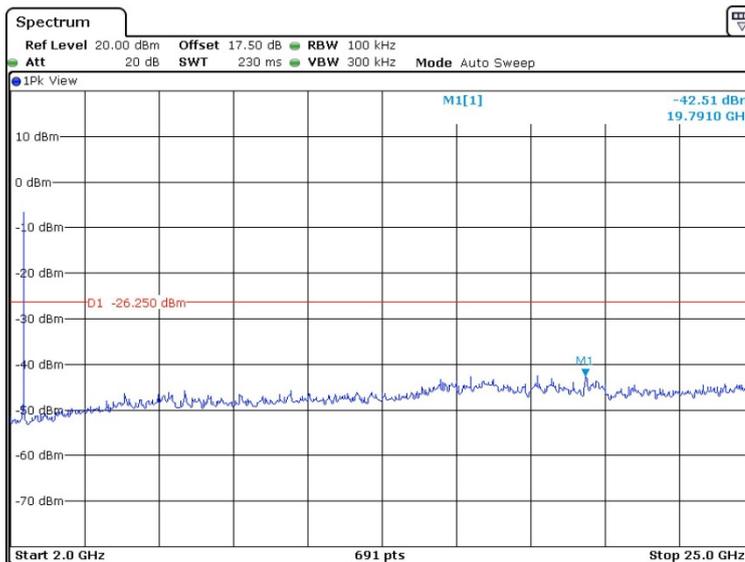
Conducted Spurious Emission Plot on Channel 01



Date: 5.MAY.2013 10:50:23

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01

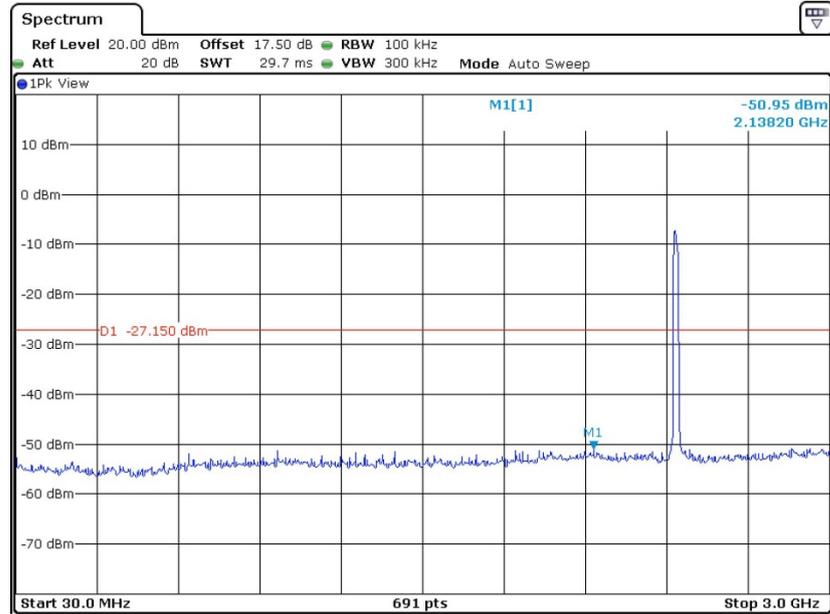


Date: 5.MAY.2013 10:51:28



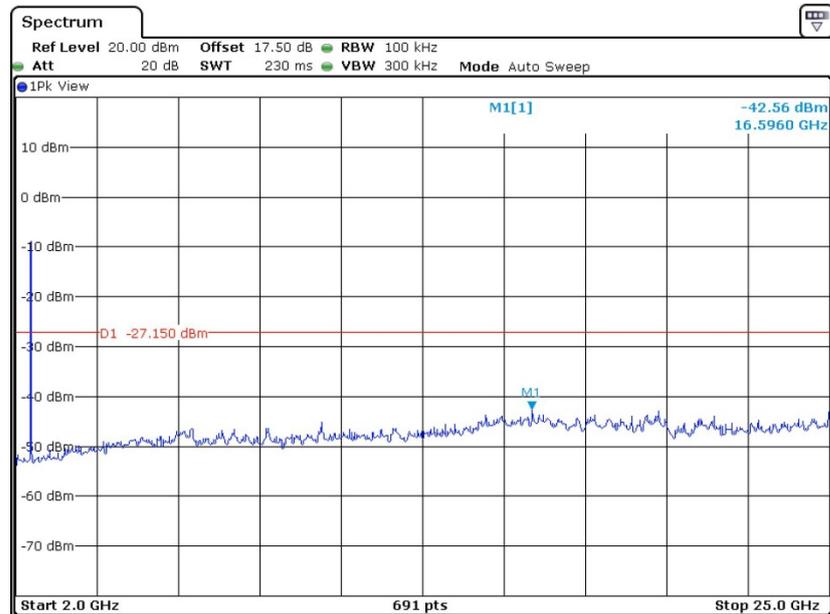
802.11n HT20 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 06



802.11n HT20 2 GHz~25 GHz

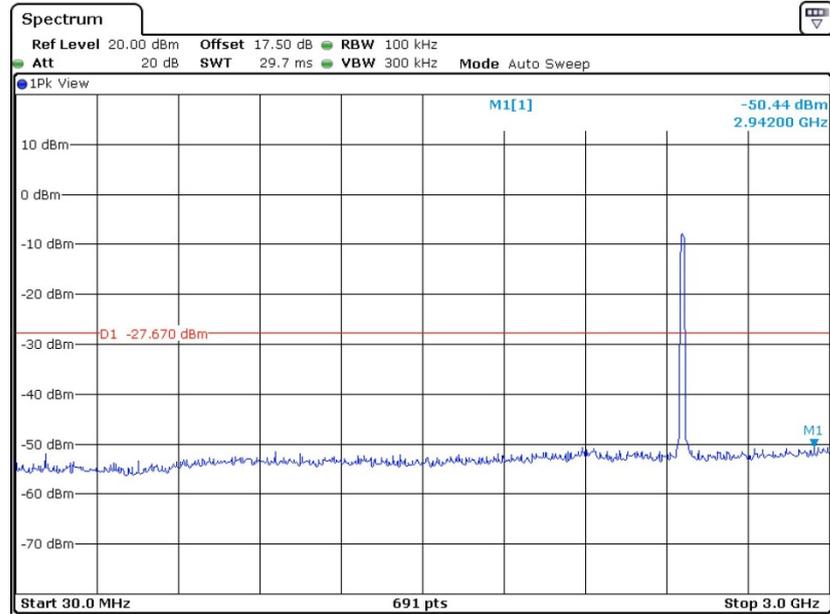
Conducted Spurious Emission Plot on Channel 06





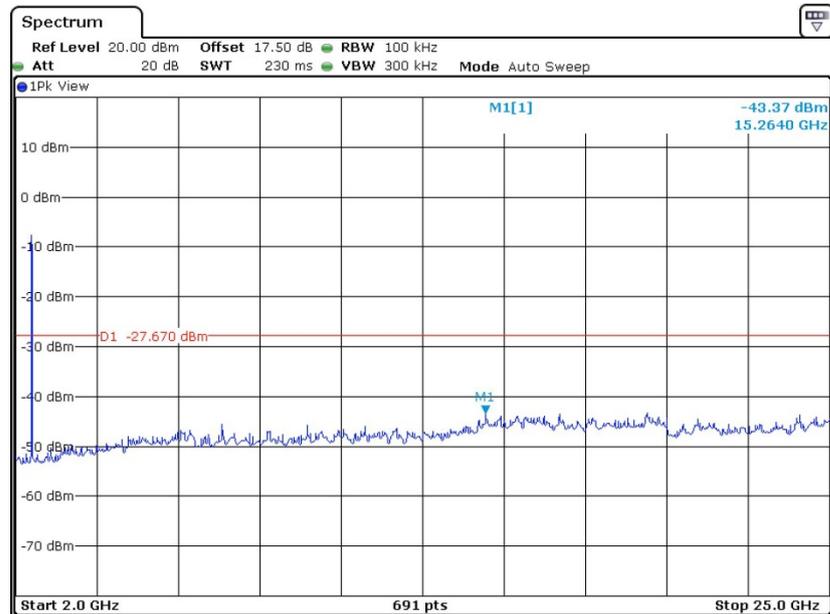
802.11n HT20 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/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

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.



3.5.3 Test Procedures

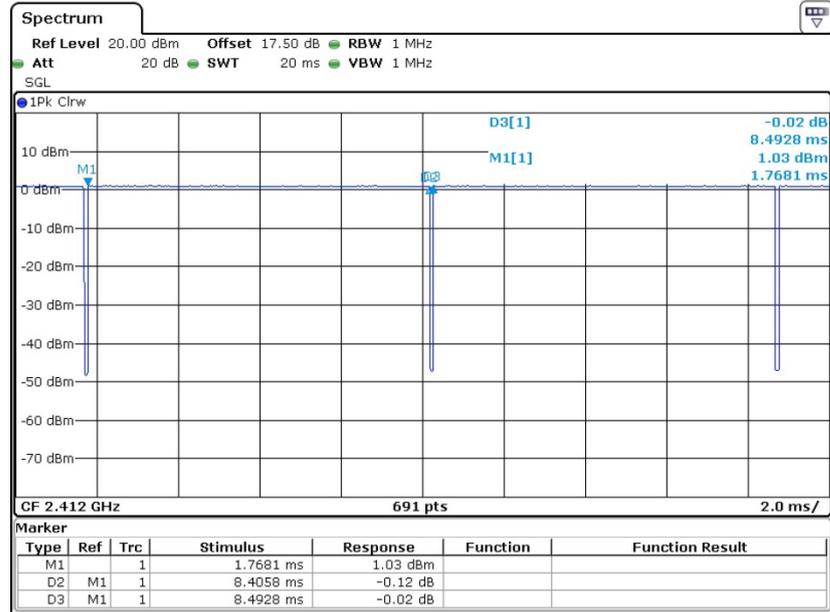
1. The testing follows the guidelines in ANSI C63. 10-2009
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
 For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.976	-	-	10Hz
802.11g	92.960	1.397	0.716	1kHz
2.4G 802.11n HT20	92.418	1.307	0.765	1kHz

Note: For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.



802.11b Duty Cycle



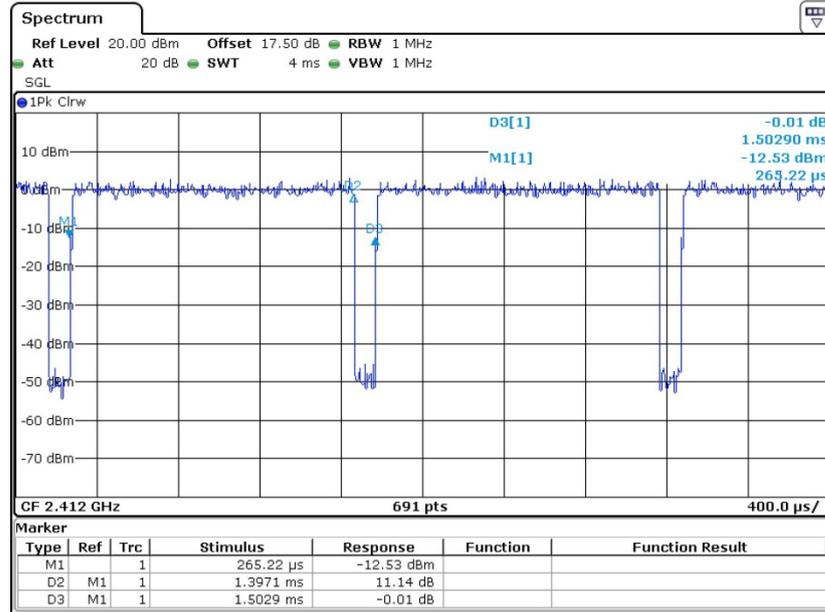
Date: 2.MAY.2013 09:30:02

Note:

The total loss is 17.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



802.11g Duty Cycle

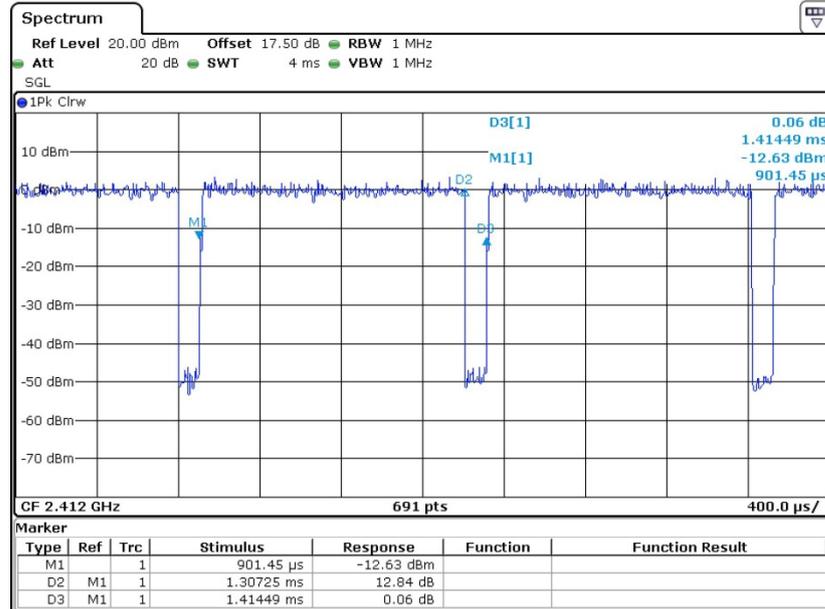


Date: 2.MAY.2013 09:34:06

The total loss is 17.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



2.4GHz 802.11n HT20 Duty Cycle



Date: 2.MAY.2013 09:40:46

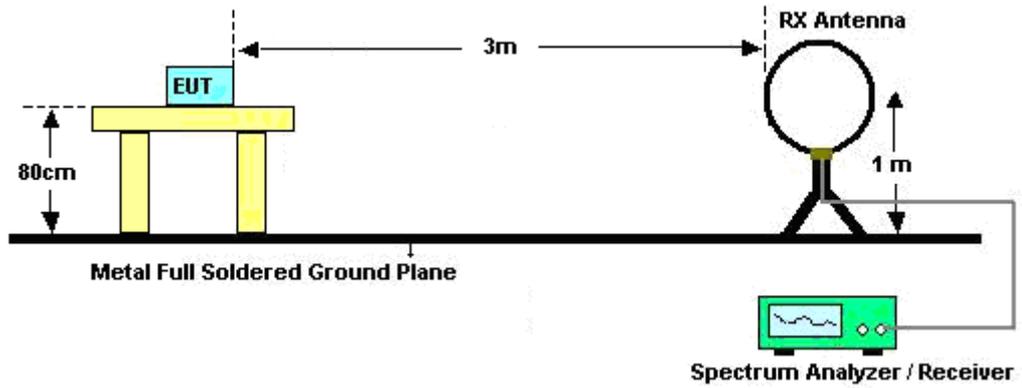
The total loss is 17.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



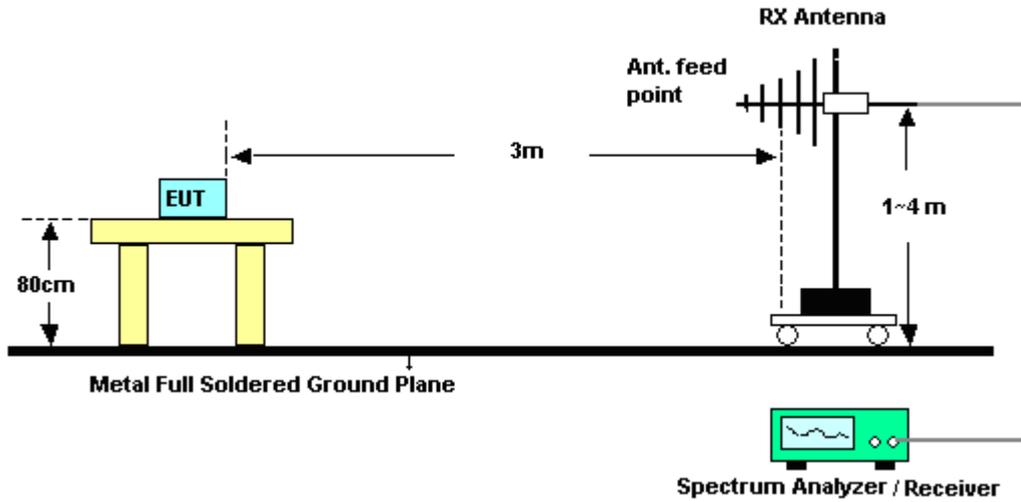
- ♦ **Marker-Delta method in KDB558074 D01 DTS Meas. Guidance v03r01:**
 - (1) Fundamental Peak Level: Set RBW = 1 MHz, VBW = 3 MHz, peak detector;
Fundamental Average Level: Set RBW = 1 MHz, VBW = 10Hz or 1/T Hz depends on duty cycle, peak detector;
 - (2) Set span = 30MHz, that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set RBW = 300 kHz, 1% of the total span. Set VBW = 300 kHz \geq RBW.
 - (3) Subtract the delta measured in step (2) from the field strengths measured in step (1).
 - (4) The resultant field strengths (peak/average) are then used to determine band-edge compliance as required by Section 15.205.

3.5.4 Test Setup

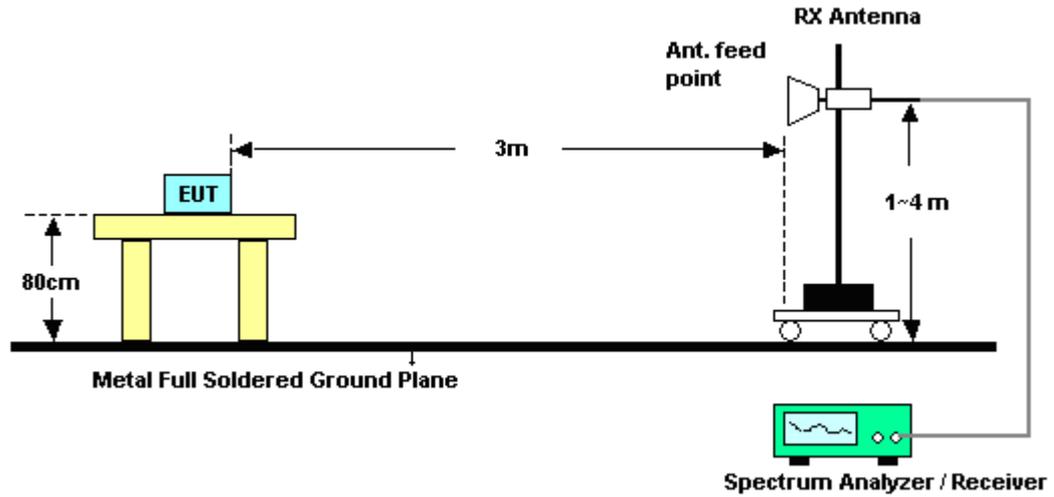
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emission (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.5.6 Test Result of Radiated Band Edges

Test Mode :	802.11b	Temperature :	23~24°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	48.85	-25.15	74	45.39	32.86	2.11	31.51	158	122	Peak
2390	35.43	-18.57	54	31.97	32.86	2.11	31.51	158	122	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	48.98	-25.02	74	45.52	32.86	2.11	31.51	103	75	Peak
2390	37.13	-16.87	54	33.67	32.86	2.11	31.51	103	75	Average

Test Mode :	802.11b	Temperature :	23~24°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	48.39	-25.61	74	44.73	33.01	2.16	31.51	107	9	Peak
2485.39	37.28	-16.72	54	33.62	33.01	2.16	31.51	107	9	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	49.61	-24.39	74	45.95	33.01	2.16	31.51	100	69	Peak
2487.46	38.51	-15.49	54	34.85	33.01	2.16	31.51	100	69	Average



Test Mode :	802.11g	Temperature :	23~24°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2384.88	52.13	-21.87	74	48.72	32.83	2.09	31.51	154	101	Peak
2389.47	38.53	-15.47	54	35.07	32.86	2.11	31.51	154	101	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.38	55.46	-18.54	74	52	32.86	2.11	31.51	103	81	Peak
2390	40.92	-13.08	54	37.46	32.86	2.11	31.51	103	81	Average



Test Mode :	802.11g	Temperature :	23~24°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2485.36	75.51	1.51	74	71.85	33.01	2.16	31.51	138	62	Peak
2483.5	44.73	-9.27	54	41.07	33.01	2.16	31.51	138	62	Average
2485.36	54.44	-19.56	74	-	-	-	-	-	-	Peak
2483.5	42.49	-11.51	54	-	-	-	-	-	-	Average

Summary results of marker-delta method:

Test mode	Maximum field strength of the fundamental emission (dBμV/m)	Delta Result (dB)	Measurement Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
Peak	99.97	45.53	54.44	74	-19.56	Pass
Average	88.02	45.53	42.49	54	-11.51	Pass

Note : Measurement result = Maximum field strength – Delta result

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2486.44	72.02	-1.98	74	68.36	33.01	2.16	31.51	100	87	Peak
2483.5	44.07	-9.93	54	40.41	33.01	2.16	31.51	100	87	Average
2486.44	59.37	-14.63	74	-	-	-	-	-	-	Peak
2483.5	48.07	-5.93	54	-	-	-	-	-	-	Average

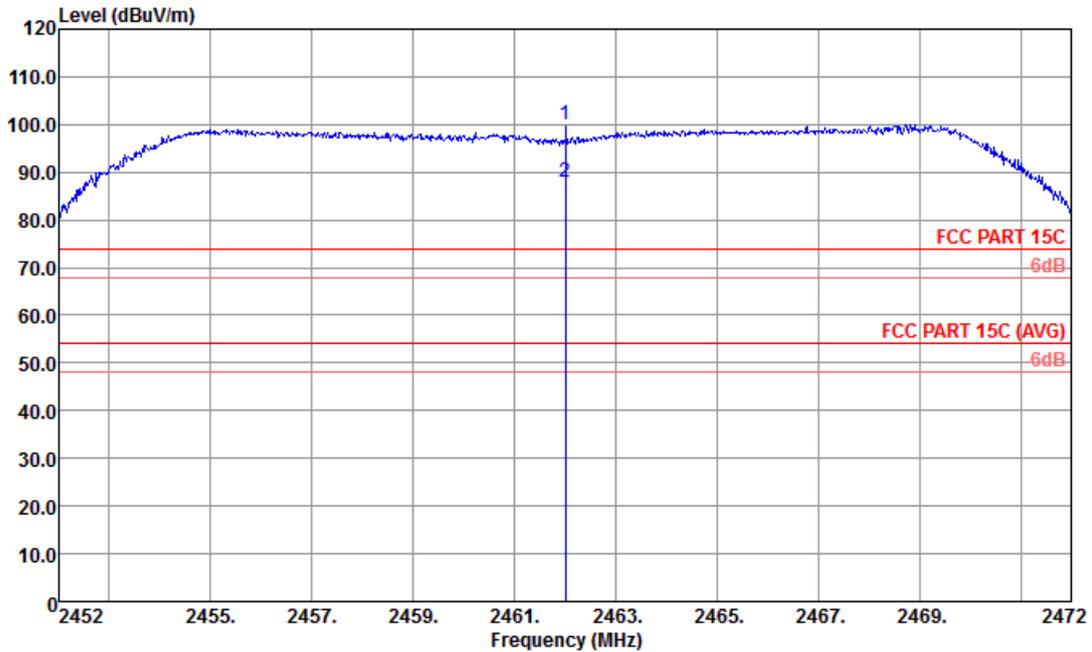
Summary results of marker-delta method:

Test mode	Maximum field strength of the fundamental emission (dBμV/m)	Delta Result (dB)	Measurement Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
Peak	103.48	44.11	59.37	74	-14.63	Pass
Average	92.18	44.11	48.07	54	-5.93	Pass

Note : Measurement result = Maximum field strength – Delta result



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal



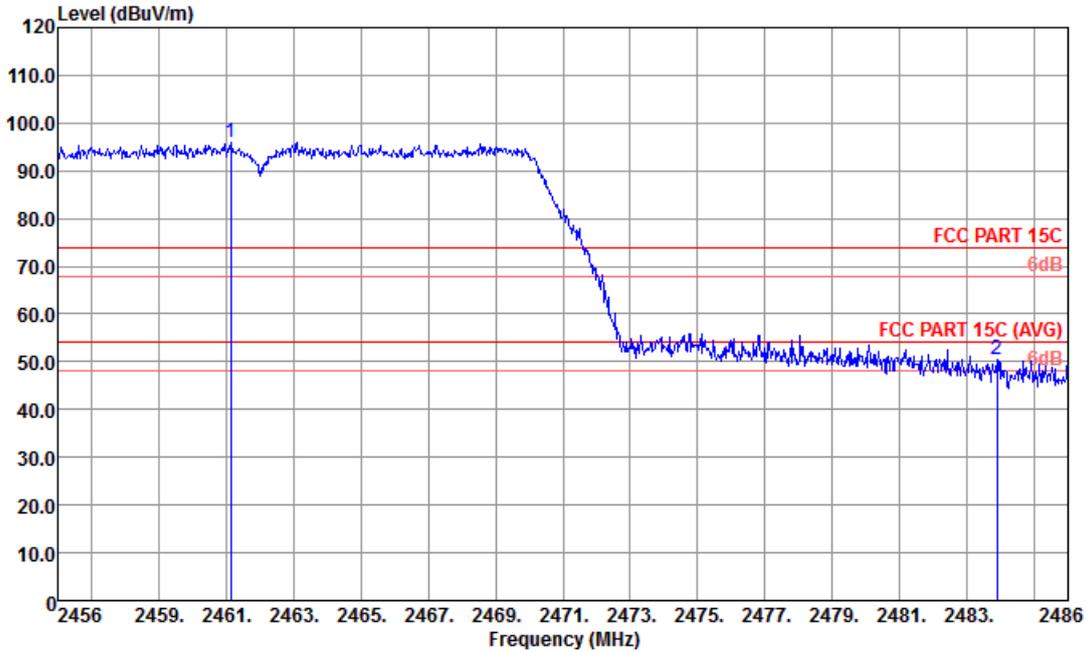
Site : 03CH01-KS
 Condition : FCC PART 15C 3m HF ANT-100803 HORIZONTAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 *	2462.00	99.97	25.97	74.00	96.35	32.98	2.15	31.51	196	170	Peak
2 *	2462.00	88.02	34.02	54.00	84.40	32.98	2.15	31.51	196	170	Average

* Maximum field strength of the fundamental emission



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal



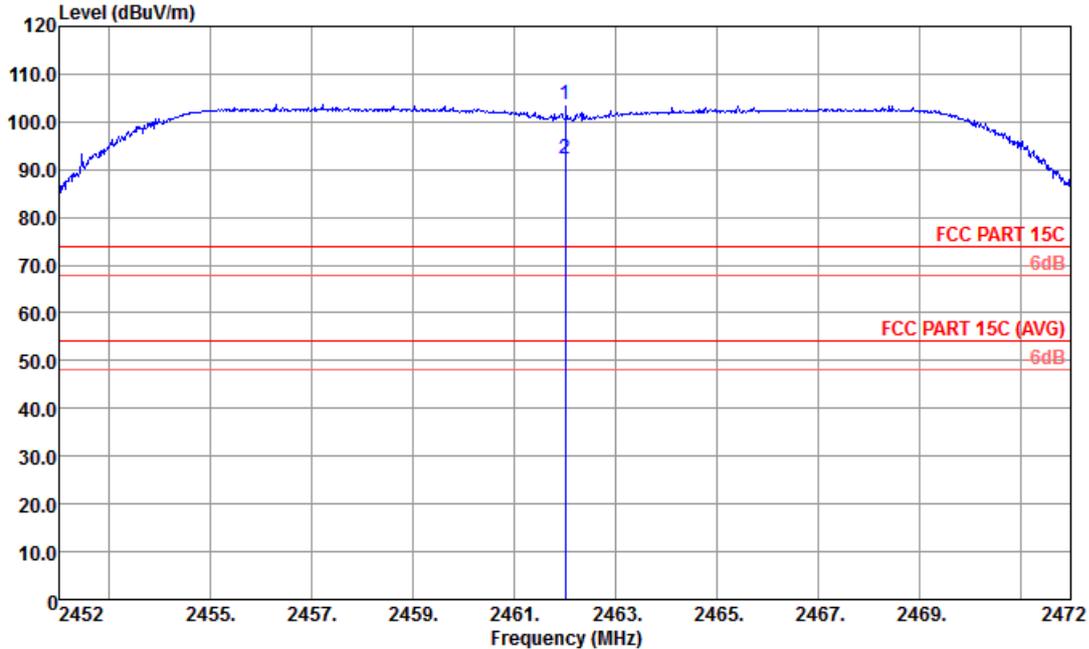
Site : 03CH01-KS
 Condition : FCC PART 15C 3m HF ANT-100803 HORIZONTAL
 : RBW:300.000KHz VBW:300.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	A/Pos	I/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 *	2461.13	95.84	21.84	74.00	92.22	32.98	2.15	31.51	132		47 Peak
2	2483.90	50.31	-23.69	74.00	46.65	33.01	2.16	31.51	132		47 Peak

* Marker-Delta Method (RBW/VBW=100kHz): 45.53 dB , single carrier Mode



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical



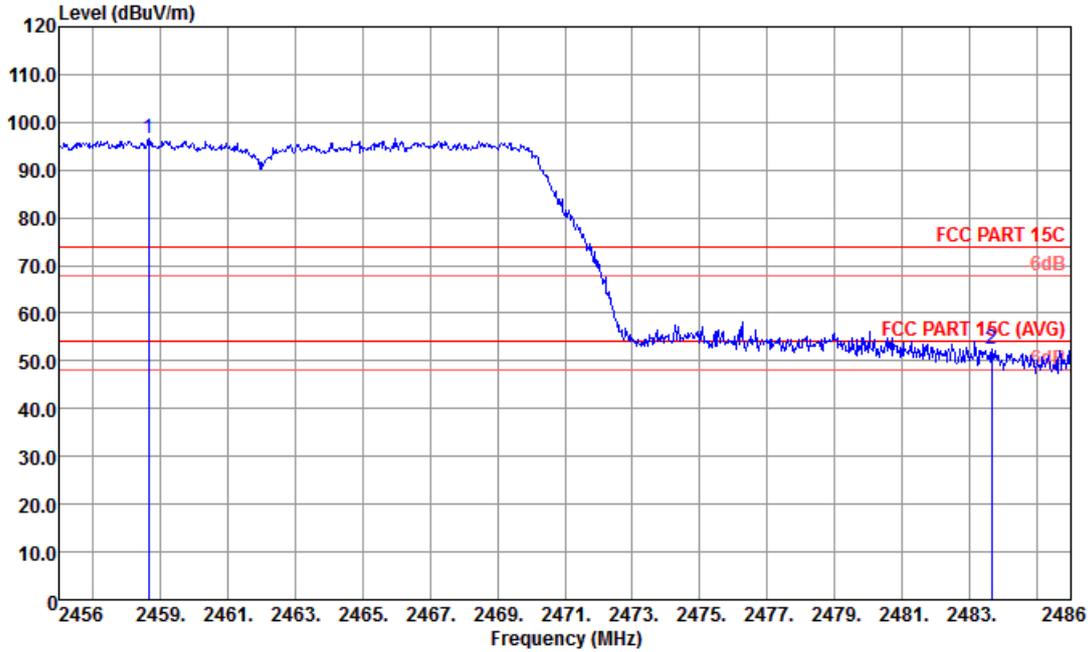
Site : 03CH01-KS
 Condition : FCC PART 15C 3m HF ANT-100803 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	cm	deg
1 *	2462.00	103.48	29.48	74.00	99.86	32.98	2.15	31.51	100	77 Peak
2 *	2462.00	92.18	38.18	54.00	88.66	32.98	2.15	31.51	100	77 Average

* Maximum field strength of the fundamental emission



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical



Site : 03CH01-KS
 Condition : FCC PART 15C 3m HF ANT-100803 VERTICAL
 : RBW:300.000KHz VBW:300.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 *	2458.67	96.53	22.53	74.00	92.91	32.98	2.15	31.51	100	89	Peak
2	2483.66	52.42	-21.58	74.00	48.76	33.01	2.16	31.51	100	89	Peak

* Marker-Delta Method (RBW/VBW=100kHz): 44.11 dB , single carrier Mode



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	56.83	-17.17	74	53.37	32.86	2.11	31.51	101	213	Peak
2390	36.08	-17.92	54	32.62	32.86	2.11	31.51	101	213	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	62.22	-11.78	74	58.76	32.86	2.11	31.51	107	102	Peak
2390	41.01	-12.99	54	37.55	32.86	2.11	31.51	107	102	Average

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Stone Gu

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.59	65.83	-8.17	74	62.17	33.01	2.16	31.51	111	37	Peak
2483.5	43.86	-10.14	54	40.2	33.01	2.16	31.51	111	37	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.25	65.41	-8.59	74	61.75	33.01	2.16	31.51	100	91	Peak
2483.5	44.22	-9.78	54	40.56	33.01	2.16	31.51	100	91	Average

3.5.7 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Note: Below 1GHz for radiated emission measurement, pre-scanned all test modes and only choose the worst case mode was recorded in the report.

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. For example, 98.51dBuV/m - 20dB = 78.51dBuV/m. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	47.96	-30.55	78.51	44.5	32.86	2.11	31.51	155	116	Peak
2412	98.51	-	-	95.01	32.89	2.12	31.51	115	198	Peak
2412	93.02	-	-	89.52	32.89	2.12	31.51	115	198	Average
4824	48.51	-25.49	74	41.78	35.17	3.09	31.53	100	120	Peak
7236	49.77	-28.74	78.51	41.3	36.18	3.24	30.95	109	98	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	51.66	-29.79	81.45	48.2	32.86	2.11	31.51	132	89	Peak
2412	101.45	-	-	97.95	32.89	2.12	31.51	163	72	Peak
2412	95.9	-	-	92.4	32.89	2.12	31.51	163	72	Average
4824	50.5	-23.5	74	43.77	35.17	3.09	31.53	110	96	Peak
7236	50.03	-31.42	81.45	41.56	36.18	3.24	30.95	100	132	Peak



Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	103.04	-	-	99.46	32.95	2.14	31.51	109	49	Peak
2437	97.51	-	-	93.93	32.95	2.14	31.51	109	49	Average
4874	50.46	-23.54	74	43.68	35.18	3.12	31.52	124	98	Peak
7311	49.74	-24.26	74	41.27	36.2	3.21	30.94	100	86	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	103.07	-	-	99.49	32.95	2.14	31.51	100	124	Peak
2437	97.5	-	-	93.92	32.95	2.14	31.51	100	124	Average
4874	50.09	-23.91	74	43.31	35.18	3.12	31.52	120	102	Peak
7311	50.25	-23.75	74	41.78	36.2	3.21	30.94	110	125	Peak



Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	104.17	-	-	100.55	32.98	2.15	31.51	108	36	Peak
2462	98.27	-	-	94.65	32.98	2.15	31.51	108	36	Average
4924	49.36	-24.64	74	42.53	35.19	3.15	31.51	100	162	Peak
7386	48.88	-25.12	74	40.38	36.24	3.19	30.93	102	132	Peak

Test Mode :	802.11b	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	102.37	-	-	98.75	32.98	2.15	31.51	102	67	Peak
2462	96.25	-	-	92.63	32.98	2.15	31.51	102	67	Average
4924	50.18	-23.82	74	43.35	35.19	3.15	31.51	106	89	Peak
7386	50.89	-23.11	74	42.39	36.24	3.19	30.93	112	95	Peak



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	55.36	-24.95	80.31	51.9	32.86	2.11	31.51	123	109	Peak
2412	100.31	-	-	96.81	32.89	2.12	31.51	113	139	Peak
2412	89.2	-	-	85.7	32.89	2.12	31.51	113	139	Average
4824	48.45	-25.55	74	41.72	35.17	3.09	31.53	126	96	Peak
7236	50.51	-29.8	80.31	42.04	36.18	3.24	30.95	142	89	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	64.27	-18.94	83.21	60.81	32.86	2.11	31.51	132	89	Peak
2412	103.21	-	-	99.71	32.89	2.12	31.51	100	81	Peak
2412	92.06	-	-	88.56	32.89	2.12	31.51	100	81	Average
4824	48.64	-25.36	74	41.91	35.17	3.09	31.53	120	69	Peak
7236	49.37	-33.84	83.21	40.9	36.18	3.24	30.95	115	78	Peak



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	103.26	-	-	99.68	32.95	2.14	31.51	120	157	Peak
2437	92.7	-	-	89.12	32.95	2.14	31.51	120	157	Average
4874	49.51	-24.49	74	42.73	35.18	3.12	31.52	100	97	Peak
7311	49.61	-24.39	74	41.14	36.2	3.21	30.94	110	121	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	105.95	-	-	102.37	32.95	2.14	31.51	100	236	Peak
2437	94.26	-	-	90.68	32.95	2.14	31.51	100	236	Average
4874	50.78	-23.22	74	44	35.18	3.12	31.52	100	154	Peak
7311	49.79	-24.21	74	41.32	36.2	3.21	30.94	140	69	Peak



Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
55.61	23.21	-16.79	40	50.13	6.2	0.46	33.58			Peak
98.14	31.28	-12.22	43.5	54.18	10.15	0.57	33.62			Peak
188.41	27.81	-15.69	43.5	52.09	8.48	0.8	33.56			Peak
264.75	25.94	-20.06	46	46.17	12.25	0.94	33.42			Peak
836.24	35.59	-10.41	46	46.31	20.36	1.63	32.71	100	322	Peak
942.13	32.4	-13.6	46	42.39	20.7	1.75	32.44			Peak
2462	104.51	-	-	100.89	32.98	2.15	31.51	137	63	Peak
2462	93.55	-	-	89.93	32.98	2.15	31.51	137	63	Average
4924	48.75	-25.25	74	41.92	35.19	3.15	31.51	100	98	Peak
7386	50.21	-23.79	74	41.71	36.24	3.19	30.93	110	69	Peak

Test Mode :	802.11g	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
44.12	25.51	-14.49	40	49.12	9.6	0.41	33.62			Peak
96.78	29.56	-13.94	43.5	52.58	10.03	0.57	33.62	102	66	Peak
99.53	28.37	-15.13	43.5	50.91	10.5	0.58	33.62			Peak
266.61	20.15	-25.85	46	40.34	12.29	0.94	33.42			Peak
836.24	27.56	-18.44	46	38.28	20.36	1.63	32.71			Peak
942.13	31.74	-14.26	46	41.73	20.7	1.75	32.44			Peak
2462	103.89	-	-	100.27	32.98	2.15	31.51	100	94	Peak
2462	92.49	-	-	88.87	32.98	2.15	31.51	100	94	Average
4924	48.62	-25.38	74	41.79	35.19	3.15	31.51	110	89	Peak
7386	49.98	-24.02	74	41.48	36.24	3.19	30.93	110	78	Peak



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	62.71	-16.7	79.41	59.25	32.86	2.11	31.51	120	116	Peak
2412	99.41	-	-	95.91	32.89	2.12	31.51	115	165	Peak
2412	87.65	-	-	84.15	32.89	2.12	31.51	115	165	Average
4824	48.37	-25.63	74	41.64	35.17	3.09	31.53	120	125	Peak
7236	49.75	-29.66	79.41	41.28	36.18	3.24	30.95	110	98	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	<ol style="list-style-type: none"> 2412 MHz is fundamental signal which can be ignored. 2399MHz and 7236MHz are not within a restricted band, and their limit line is 20dB below the highest emission level. Average measurement was not performed if peak level went lower than the average limit. 		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2399	69.76	-10.61	80.37	66.3	32.86	2.11	31.51	115	61	Peak
2412	100.37	-	-	96.87	32.89	2.12	31.51	135	56	Peak
2412	89.02	-	-	85.52	32.89	2.12	31.51	135	56	Average
4824	48.44	-25.56	74	41.71	35.17	3.09	31.53	110	58	Peak
7236	50.11	-30.26	80.37	41.64	36.18	3.24	30.95	110	78	Peak



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	100.46	-	-	96.88	32.95	2.14	31.51	169	62	Peak
2437	89.11	-	-	85.53	32.95	2.14	31.51	169	62	Average
4874	48.15	-25.85	74	41.37	35.18	3.12	31.52	141	120	Peak
7311	49.14	-24.86	74	40.67	36.2	3.21	30.94	116	78	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	102.36	-	-	98.78	32.95	2.14	31.51	126	76	Peak
2437	90.16	-	-	86.58	32.95	2.14	31.51	126	76	Average
4874	49.34	-24.66	74	42.56	35.18	3.12	31.52	110	97	Peak
7311	49.58	-24.42	74	41.11	36.2	3.21	30.94	121	67	Peak



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	100.71	-	-	97.09	32.98	2.15	31.51	106	39	Peak
2462	89.77	-	-	86.15	32.98	2.15	31.51	106	39	Average
4924	48.39	-25.61	74	41.56	35.19	3.15	31.51	121	58	Peak
7386	50.07	-23.93	74	41.57	36.24	3.19	30.93	112	67	Peak

Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	100.6	-	-	96.98	32.98	2.15	31.51	131	126	Peak
2462	88.93	-	-	85.31	32.98	2.15	31.51	131	126	Average
4924	49.95	-24.05	74	43.12	35.19	3.15	31.51	110	87	Peak
7386	49.24	-24.76	74	40.74	36.24	3.19	30.93	108	89	Peak

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

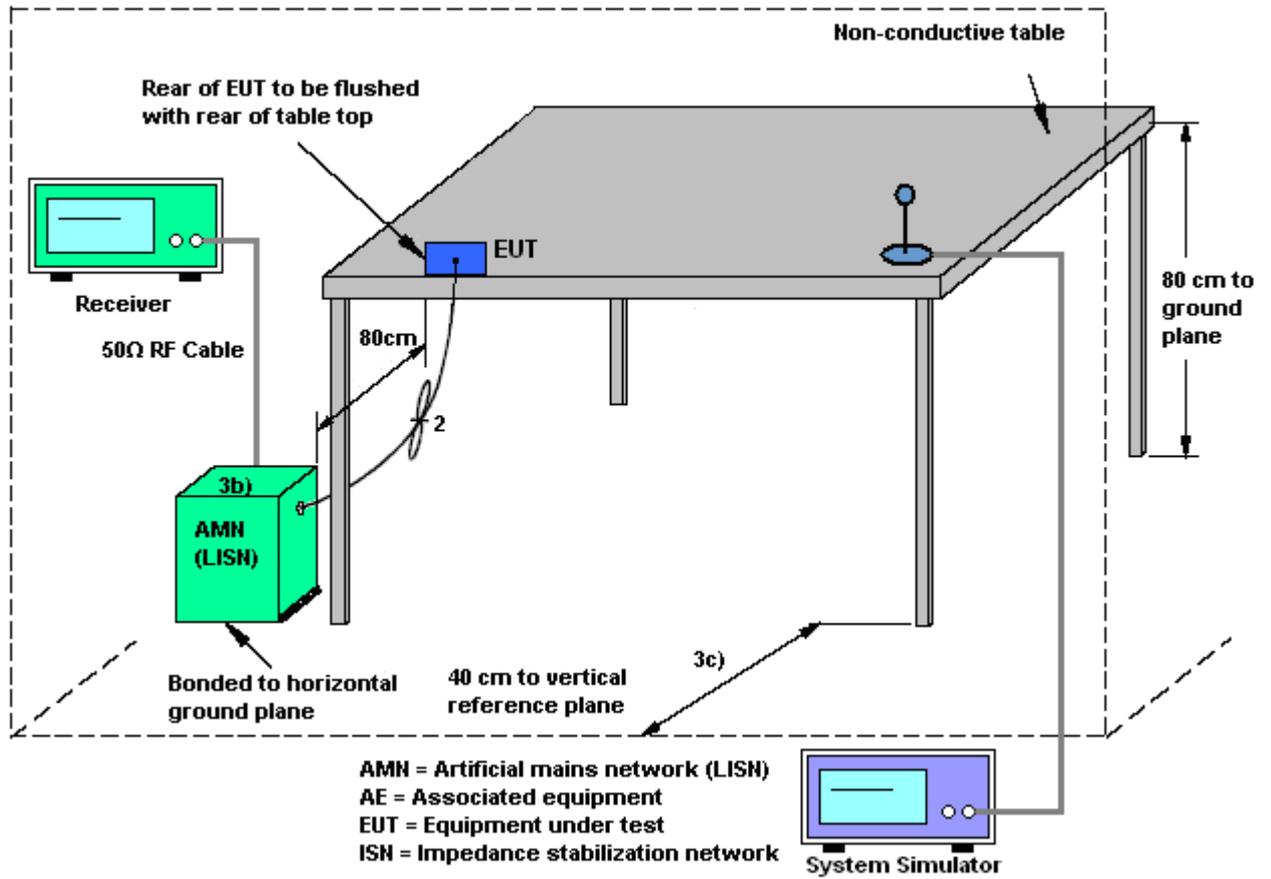
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.10-2009.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

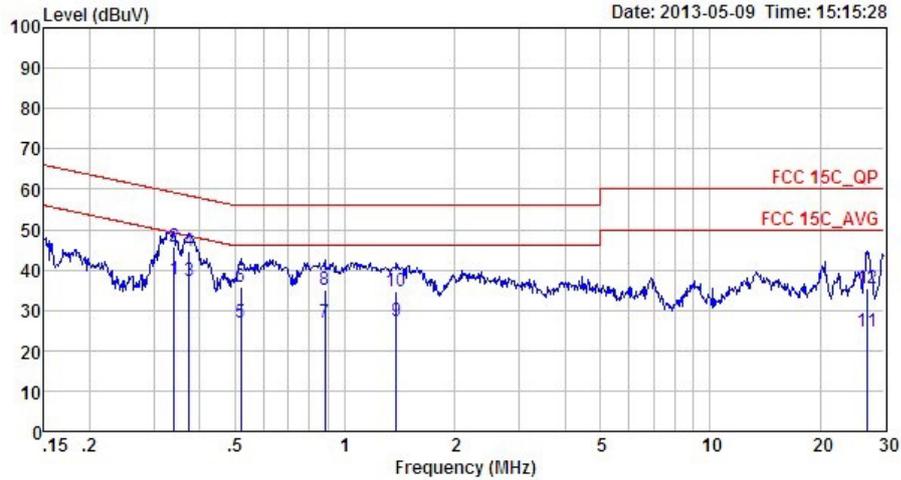
3.6.4 Test Setup





3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Leo Liao	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



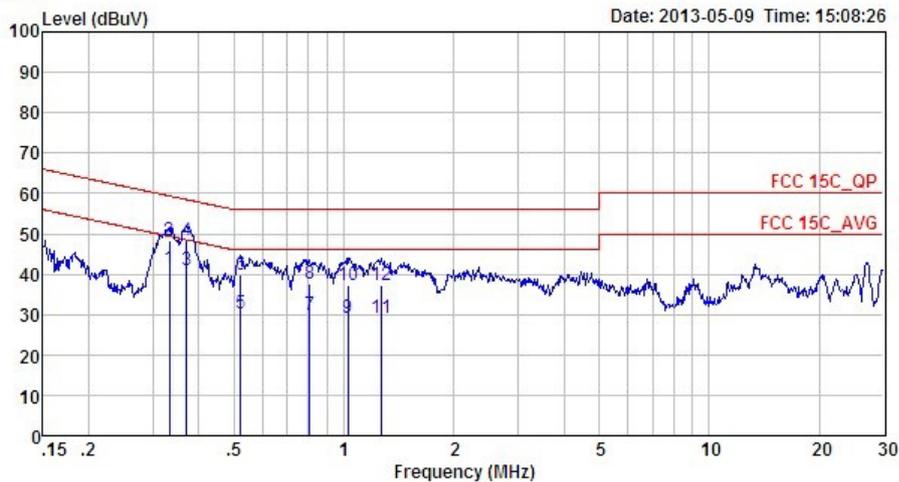
Site : C001-SZ
 Condition: FCC 15C QP LISN_L_2000601 LINE

Mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.34	37.69	-11.49	49.18	27.60	0.02	10.07	Average
2	0.34	45.79	-13.39	59.18	35.70	0.02	10.07	QP
3 *	0.38	37.30	-11.09	48.39	27.21	0.02	10.07	Average
4	0.38	44.70	-13.69	58.39	34.61	0.02	10.07	QP
5	0.52	27.11	-18.89	46.00	17.00	0.02	10.09	Average
6	0.52	35.91	-20.09	56.00	25.80	0.02	10.09	QP
7	0.88	26.93	-19.07	46.00	16.80	0.02	10.11	Average
8	0.88	35.03	-20.97	56.00	24.90	0.02	10.11	QP
9	1.38	27.35	-18.65	46.00	17.20	0.03	10.12	Average
10	1.38	34.85	-21.15	56.00	24.70	0.03	10.12	QP
11	26.98	24.90	-25.10	50.00	13.90	0.57	10.43	Average
12	26.98	35.60	-24.40	60.00	24.60	0.57	10.43	QP



Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Leo Liao	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15C_QP LISN_N_2000601 NEUTRAL

Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.33	41.38	-8.02	49.40	31.29	0.02	10.07	Average
2	0.33	48.28	-11.12	59.40	38.19	0.02	10.07	QP
3 *	0.37	40.89	-7.58	48.47	30.80	0.02	10.07	Average
4	0.37	48.39	-10.08	58.47	38.30	0.02	10.07	QP
5	0.52	30.30	-15.70	46.00	20.19	0.02	10.09	Average
6	0.52	39.70	-16.30	56.00	29.59	0.02	10.09	QP
7	0.80	29.93	-16.07	46.00	19.80	0.02	10.11	Average
8	0.80	37.73	-18.27	56.00	27.60	0.02	10.11	QP
9	1.03	29.14	-16.86	46.00	19.01	0.02	10.11	Average
10	1.03	37.44	-18.56	56.00	27.31	0.02	10.11	QP
11	1.26	29.05	-16.95	46.00	18.91	0.02	10.12	Average
12	1.26	37.35	-18.65	56.00	27.21	0.02	10.12	QP



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

3.7.2 Antenna Connected Construction

Non-standard connector used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	May 05, 2013~ Jun. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	May 05, 2013~ Jun. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	May 05, 2013~ Jun. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	May 09, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	May 09, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	May 09, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
HFH2-Z2 Loop Antenna	R&S	HFH2-Z2	100321	9kHz-30MHz	Oct. 22, 2012	May 09, 2013	Oct. 21, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	1908/7/13	00075957	1GHz~18GHz	Dec. 07, 2012	May 09, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	May 09, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	May 09, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1GHz~18GHz	Nov. 07, 2012	May 09, 2013	Nov. 06, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	May 09, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
Turn Table	EM Electronic	EM 1000	N/A	0 ~ 360 degree	N/A	May 09, 2013	N/A	Radiation (03CH01-KS)
Antenna Mast	EM Electronic	EM 1000	N/A	1 m - 4 m	N/A	May 09, 2013	N/A	Radiation (03CH01-KS)
ESCIO TEST Receiver	R&S	1142.8007.0 3	100724	9K-3GHz	Mar. 28, 2013	May 09, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	ETS-LINDGRE N	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	May 09, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	ETS-LINDGRE N	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	May 09, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC Source	Chroma	61602	616020000891	N/A	Nov.20, 2012	May 09, 2013	Nov. 19, 2013	Conduction (CO01-SZ)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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Appendix A. Photographs of EUT

Please refer to Sporton report number EP342511 as below.