FCC TEST REPORT

Report No.: SEFI1009109

According to

FCC CFR Title 47 Part 15 Subpart C

Applicant Suzhou Shuanglin Plastics&Rubber Electronics Co.,Ltd.

Address No.166-168, WestShiHuRoad, Wuzhong District, Suzhou, Jiangsu, China

Manufacturer: Suzhou Shuanglin Plastics&Rubber Electronics Co.,Ltd.

Address No.166-168, West Shi HuRoad, Wuzhong District, Suzhou, Jiangsu, China

Mobile Internet Devices Equipment

Model No. SL08DW01 / GT800 / GT810

FCC ID YZF-A101202

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Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 1 of 54

Issued Date: Dec 15,2010

Table of Contents

Report No.: SEFI1009109

Issued Date : Dec 15,2010

Page No. : 2 of 54

1.	Repor	t of Measurements and Examinations	6
2.	Test C	Configuration of Equipment under Test	7
	2.1.	Feature of Equipment under Test	7
	2.2.	Carrier Frequency of Channels	8
	2.3.	Test Manner	9
	2.4.	Description of Test System	9
	2.5.	General Information of Test	10
	2.6.	Measurement Uncertainty	10
3.	Test o	f Conducted Emission	1 1
	3.1.	Test Limit	11
	3.2.	Test Procedures	11
	3.3.	Typical Test Setup	12
	3.4.	Measurement Equipment	12
	3.5.	Test Result and Data	13
4.	Test o	f Radiated Emission	14
	4.1.	Test Limit	14
	4.2.	Test Procedures	14
	4.3.	Typical Test Setup	15
	4.4.	Measurement Equipment	16
	4.5.	Test Result and Data	17
5.	Occup	pied Bandwidth	24
	5.1.	Test Limit	24
	5.2.	Test Procedures	24
	5.3.	Test Setup Layout	24
	5.4.	Measurement Equipment	24
	5.5.	Test Result and Data	25
6.	Maxim	num Peak Output Power	29
	6.1.	Test Limit	29
	6.2.	Test Procedure	29
	6.3.	Test Setup Layout	29
	6.4.	Measurement Equipment	29
	6.5.	Test Result and Data	30
7.	Band	Edges	31
	7.1.	Test Limit	31
	7.2.	Test Procedure	31
	7.3.	Test Setup Layout	32
	7.4.	Measurement Equipment	32
	7.5.	Test Result and Data	33
8.	RF An	tenna Conducted Spurious	43
	8.1.	Test Limit	43
	8.2.	Test Procedure	43



9.5.

CERPASS TECHNOLOGY CORP.

	8.3.	Test Setup Layout	. 43
	8.4.	Measurement Equipment	. 43
	8.5.	Test Result and Data	. 44
9.	Power	Spectral Density	50
	9.1.	Test Limit	. 50
	9.2.	Test Procedure	. 50
	9.3.	Test Setup Layout	. 50
	9.4.	Measurement Equipment	. 50

Report No.: SEFI1009109

Tel:86-512-6917-5888 Fax: 86-512-6917-5666

: 3 of 54

Page No.

Document history

Report No.: SEFI1009109

Attachment No.	Date	Description
SEFI1009109	December 15, 2010	First issue

Cerpass Technology Corp.

Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

Page No. : 4 of 54

FCC TEST REPORT

according to

FCC CFR Title 47 Part 15 Subpart C

Applicant : Suzhou Shuanglin Plastics&Rubber Electronics Co.,Ltd.

Address: No.166-168, West Shi HuRoad, Wuzhong District, Suzhou, Jiangsu, China

Manufacturer: Suzhou Shuanglin Plastics&Rubber Electronics Co.,Ltd.

Address: No.166-168, West Shi HuRoad, Wuzhong District, Suzhou, Jiangsu, China

Equipment : Mobile Internet Devices

Model No. : SL08DW01 / GT800 / GT810

FCC ID : YZF-A101202

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was **passed**

CISPR PUB. 22 and FCC Part 15 in both radiated and conducted emission class B limits.

Testing was carried out Nov 25, 2010 at Cerpass Technology Corp.

Documented By:

eson Wang

Approved By:

Report No.: SEFI1009109

Jeson Wang/ Administration

Clinton Kao/ Technical director

Cerpass Technology Corp.Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

Page No. : 5 of 54



1. Report of Measurements and Examinations

	FCC CFR Title 47 Part 15 Subpart C: 2007				
	ANSI C63.4: 2003				
Clause	Test Parameter	Test Performed	Remark		
15.207	Conducted Emission	YES	PASS		
15.209	Radiated Emission	YES	PASS		
15.247(a) 15.215(c)	Occupied Bandwidth	YES	PASS		
15.247(b)	Maximum Peak Output Power	YES	PASS		
15.247(c)	Band Edges	YES	PASS		
15.247(c)	RF antenna conducted	YES	PASS		
15.247(d)	Power Spectral Density	YES	PASS		

Report No.: SEFI1009109

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 6 of 54



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Mobile Internet Devices	Model No :	SL08DW01 / GT800 / GT810	
Adapter	Model No.:	HKA01805020-2A	
	Input:	100-240V 50/60Hz 0.5A	
	Output:	5.0V 2.0A	
Power Supply Cable	Non-Shielded, 1.5m, with one ferrite core bonded		
Additional Power Option	Battery: 3.7Vdc, 3050mAh		
USB Cable	Non-shielding, 0.5m		
Remark	They are identical except the model name. This is only to satisfy the different requirements of the client. SL08DW01 was selected as the test model and its data have been recorded in this report		

Report No.: SEFI1009109

WLAN	Atheros/ar6102	
Caracdina	802.11b: DSSS	
Spreading	802.11g: OFDM	
Frequency Range	802.11b/g: 2412-2462MHz	
Number of	902.11b/a:11	
Channels	802.11b/g:11	
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps	
Dala Nale	802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps	
Max. output power	802.11b:12.65dBm	
iviax. output power	802.11g:11.83dBm	
Antenna Type	Dipole antenna	
Antenna Gain	1.0 dBi	

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 7 of 54



2.2. Carrier Frequency of Channels

802.11b, 802.11g

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437		

Report No.: SEFI1009109

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 8 of 54

2.3. Test Manner

Test Manne	Test Manner			
а	During testing, the interface cables and equipment positions were varied			
	according to 47 CFR, Part 2, Part 15			
b	Adjust the EUT at the test mode and the test channel. Then test.			
The test mo	The test modes:			
	Normal Link			
	Transmit by 802.11b			
	Transmit by 802.11g			

Report No.: SEFI1009109

2.4. Description of Test System

No	Device	Manufacturer	Model No.	Description
1	Notebook	ASUS	W6A	Power by adaptor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 9 of 54

2.5. General Information of Test

Test Site:	Cerpass Technology Corp.		
Performand Location :	No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China		
NVLAP LAB Code :	200814-0		
FCC Registration Number :	916572, 331395		
IC Registration Number :	7290A-1, 7290A-2		
	T-343 for Telecommunication Test		
VCCI Registration Number :	C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz		
	G-227 for Radiated emission test above 1GHz		

Report No.: SEFI1009109

Laboratory accreditation



2.6. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	±2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	±4.11 dB
Radiated Emission	30 MHZ ~ 23GHZ	Horizontal	±4.10 dB
Occupied Bandwidth			±7500 Hz
Maximum Peak Output			±1.4 dB
Power			±1.4 ub
Band Edges			±2.2 dB
Power Spectral Density			±2.2 dB

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 10 of 54

3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Report No.: SEFI1009109

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 – 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

3.2. Test Procedures

procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz

using a receiver bandwidth of 9kHz.

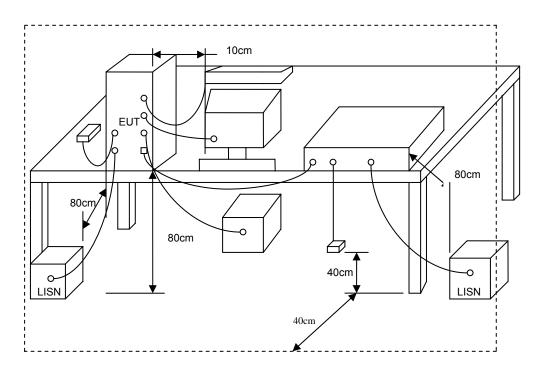
Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Page No. : 11 of 54



3.3. Typical Test Setup



Report No.: SEFI1009109

3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	
Test Receiver	R&S	ESCI	100565	2010.01.15	
AMN	R&S	ESH2-Z5	100182	2010.06.23	
Two-Line V-Network	R&S	ENV216	100325	2010.04.18	
ISN	FCC	FCC-TLISN-T2-02	20379	2010.06.23	
ISN	FCC	FCC-TLISN-T4-02	20380	2010.06.23	
ISN	FCC	FCC-TLISN-T8-02	20381	2010.06.23	
Attenuator	R&S	ESH3-Z2	100529	2010.01.11	
Temperature/ Humidity	Zhiahana	ZC1-11	CEP-TH-004	2010 09 14	
Meter	Zhicheng	201-11	GEP-111-004	2010.08.14	

Cerpass Technology Corp. Issued Date : Dec 15,2010

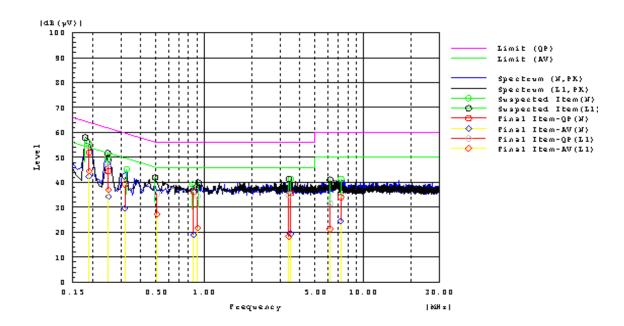
3.5. Test Result and Data

Test Mode: Normal Link

AC Power: AC 120V/60Hz L&N Phase:

22°C 50% Temperature: Humidity:

Pressur(mbar): 2010-11-08 1002 Date:



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.18977	L1	34.8	24.6	19.9	54.7	44.5	64.0	54.0	9.3	9.5	Pass
0.25146	L1	27.5	17.2	19.9	47.4	37.1	61.7	51.7	14.3	14.6	Pass
0.50696	L1	15.6	7.4	19.8	35.4	27.2	56.0	46.0	20.6	18.8	Pass
0.90757	L1	14.7	1.9	19.8	34.5	21.7	56.0	46.0	21.5	24.3	Pass
3.40513	L1	15.3	-1.4	19.7	35.0	18.3	56.0	46.0	21.0	27.7	Pass
6.1819	L1	11.9	1.6	19.7	31.6	21.3	60.0	50.0	28.4	28.7	Pass
0.19006	Ν	32.5	22.9	19.5	52.0	42.4	64.0	54.0	12.0	11.6	Pass
0.25069	N	25.0	14.8	19.5	44.5	34.3	61.7	51.7	17.2	17.4	Pass
0.31859	N	19.8	10.1	19.5	39.3	29.6	59.7	49.7	20.4	20.1	Pass
0.85907	N	16.8	-0.4	19.5	36.3	19.1	56.0	46.0	19.7	26.9	Pass
3.50746	Ν	16.1	-0.1	19.6	35.7	19.5	56.0	46.0	20.3	26.5	Pass
7.2227	N	14.4	4.8	19.7	34.1	24.5	60.0	50.0	25.9	25.5	Pass

Note: Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 13 of 54

4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Report No.: SEFI1009109

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

4.2. Test Procedures

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for guasi-peak detection measurements. Peak detection is used unless

Cerpass Technology Corp. Issued Date: Dec 15,2010 Page No. : 14 of 54

otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

Report No.: SEFI1009109

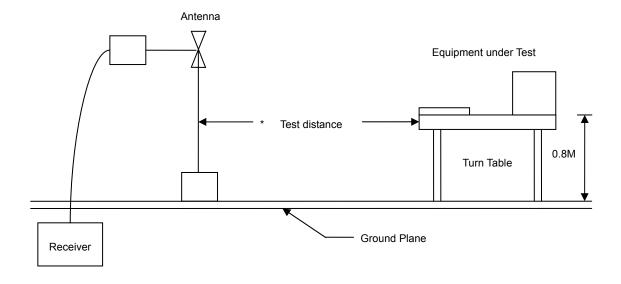
The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are

Made with the antenna polarized in both the vertical and the horizontal positions.

When performing radiated measurements >1 GHz, the EUT always remains within the 3dB beam-width of the measuring antenna.

4.3. Typical Test Setup



Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 15 of 54



4.4. Measurement Equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date
EMI Test Receiver	R&S	ESCI	100563	2010.06.23
H64 Amplifier	HP	8447F	3113A05582	2010.08.14
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10
Preamplifier	Agilent	8449B	3008A02342	2010.02.10
Ultra Broadband Antenna	R&S	HL562	100362	2010.11.25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2010.11.10
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2010.10.15
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17

Report No.: SEFI1009109

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 16 of 54



4.5. Test Result and Data

Under 1G:

Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode : Normal Link

Report No.: SEFI1009109

Freq. (MHz)	Ant.Pol. H/V	Reading Level	C orrect Factor	M easure L evel	Limit 3m (dBuV/m)	Safe Margin (dB)	Detector Mode
		(dBuV)	(dB)	(dBuV/m)			(PK/QP)
92.65	V	48.32	-17.49	30.84	43.5	-12.67	Peak
131.26	V	52.77	-16.98	35.79	43.5	-7.71	Peak
170.36	V	50.84	-17.42	33.42	43.5	-10.08	Peak
232.63	V	44.25	-15.95	28.31	46	-17.70	Peak
323.63	V	42.58	-12.16	30.43	46	-15.58	Peak
365.02	V	39.58	-11.42	28.16	46	-17.84	Peak
77.35	Н	50.98	-18.43	32.55	40	-7.45	Peak
129.63	Н	52.11	-16.85	35.26	43.5	-8.24	Peak
201.35	Н	47.34	-17.65	29.69	43.5	-13.81	Peak
232.65	Н	49.57	-15.94	33.63	46	-12.37	Peak
323.65	Н	45.21	-12.16	33.06	46	-12.95	Peak
414.63	Н	35.68	-10.36	25.33	46	-20.68	Peak

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 17 of 54



Above 1G:

Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe: VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode : Transmit by 802.11b (2412MHz)

Report No.: SEFI1009109

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Safe Margin	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak	AV	(abav/m	(dBuV/m)	(dB)	Mode
					(dBuV/m)	(dBuV/m)				(PK/QP)
1213.26	V	59.26	48.56	-5.82	53.44	42.74	74	54	-11.26	average
4825.32	V	48.56	40.26	7.39	55.95	47.65	74	54	-6.35	average
7236.33	V	42.15	33.08	15.47	57.62	48.55	74	54	-5.45	average
1213.21	Н	57.32	47.24	-5.83	51.49	41.41	74	54	-12.59	average
4825.36	Н	46.23	39.65	7.41	53.64	47.06	74	54	-6.94	average
7233.36	Н	40.55	31.24	15.47	56.02	46.71	74	54	-7.29	average

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 18 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin: 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11b (2437MHz)

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	Safe Margin (dB)	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(abuv/m	(dBuV/m)		(PK/QP)
1213.56	V	55.29	47.99	-5.85	49.44	42.14	74.00	54.00	-11.86	average
4874.33	V	47.14	38.24	7.46	54.60	45.70	74.00	54.00	-8.30	average
7310.21	V	42.16	31.06	15.52	57.68	46.58	74.00	54.00	-7.42	average
1213.56	Н	56.32	47.85	-5.85	50.47	42.00	74.00	54.00	-12.00	average
4875.22	Н	45.74	35.26	7.48	53.22	42.74	74.00	54.00	-11.26	average
7313.23	Н	41.58	32.05	15.52	57.10	47.57	74.00	54.00	-6.43	average
	·								·	

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 19 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin: 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11b (2462MHz)

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	Safe Margin (dB)	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak	AV	(abav/m	(dBuV/m)		(PK/QP)
					(dBuV/m)	(dBuV/m)				
1213.61	V	54.74	46.25	-5.86	48.88	40.39	74.00	54.00	-13.61	average
4925.33	V	46.27	37.21	7.55	53.82	44.76	74.00	54.00	-9.24	average
7385.56	V	43.05	31.05	15.61	58.66	46.66	74.00	54.00	-7.34	average
1213.60	Н	55.47	46.22	-5.86	49.61	40.36	74.00	54.00	-13.64	average
4925.35	Н	45.24	36.49	7.55	52.79	44.04	74.00	54.00	-9.96	average
7385.24	Н	41.11	30.85	15.61	56.72	46.46	74.00	54.00	-7.54	average

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 20 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11g (2412MHz)

Page No. : 21 of 54

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	ial Fs	Peak Limit	AV Limit	Safe Margin (dB)	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak	AV	(abuv/m	(dBuV/m)		(PK/QP)
					(dBuV/m)	(dBuV/m)				
1213.41	V	56.31	45.26	-5.87	50.44	39.39	74.00	54.00	-14.61	average
4825.36	V	46.25	36.51	7.56	53.81	44.07	74.00	54.00	-9.93	average
7233.36	V	40.58	31.25	15.47	56.05	46.72	74.00	54.00	-7.28	average
1213.45	Н	55.47	46.27	-5.88	49.59	40.39	74.00	54.00	-13.61	average
4825.38	Н	44.15	35.20	7.56	51.71	42.76	74.00	54.00	-11.24	average
7231.57	Н	39.86	30.04	15.47	55.33	45.51	74.00	54.00	-8.49	average
								·		
								·		·

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin: 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11g (2437MHz)

Page No. : 22 of 54

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Safe Margin (dB)	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(abuv/m	(dBuV/m)		(PK/QP)
1213.62	V	55.29	46.22	-5.86	49.43	40.36	74.00	54.00	-13.64	average
4875.26	V	47.24	36.47	7.46	54.70	43.93	74.00	54.00	-10.07	average
7310.24	V	39.68	28.77	15.52	55.20	44.29	74.00	54.00	-9.71	average
1213.62	Н	57.11	37.55	5.86	62.97	43.41	74.00	54.00	-10.59	average
4875.31	Н	47.25	36.21	7.46	54.71	43.67	74.00	54.00	-10.33	average
7311.34	Н	39.06	28.50	15.52	54.58	44.02	74.00	54.00	-9.98	average

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-09
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11g (2462MHz)

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Safe Margin (dB)	Detector Mode
		(dBuV)	(dBuV)	(dB)	Peak	AV	(abav/m	(dBuV/m)		(PK/QP)
					(dBuV/m)	(dBuV/m)				
1213.25	V	56.21	47.24	-5.83	50.38	41.41	74.00	54.00	-12.59	average
4926.33	V	48.18	38.47	7.57	55.75	46.04	74.00	54.00	-7.96	average
7385.56	V	38.98	28.15	15.61	54.59	43.76	74.00	54.00	-10.24	average
1213.26	Н	56.22	45.21	-5.83	50.39	39.38	74.00	54.00	-14.62	average
4926.34	Н	47.13	37.32	7.57	54.70	44.89	74.00	54.00	-9.11	average
7384.54	Н	37.48	27.69	15.61	53.09	43.30	74.00	54.00	-10.70	average
						·		·		

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 23 of 54

5. Occupied Bandwidth

5.1. Test Limit

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725- 5850 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.

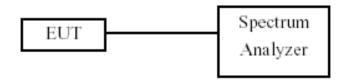
Report No.: SEFI1009109

5.2. Test Procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

5.3. Test Setup Layout



5.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17
Humidity Meter	Zilicheng	201-11	CEP-1H-002	2010.08.17

Cerpass Technology Corp. Issued Date : Dec 15,2010

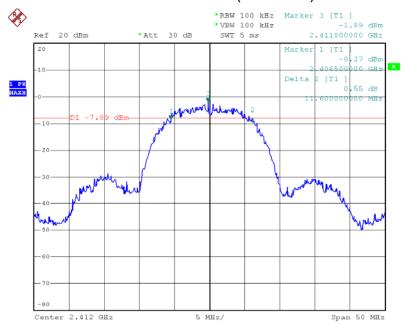
5.5. Test Result and Data

Test Item	Occupied Bandwidth			
Test Mode	Transmit by 802.11b			
Test Date	2010-12-10			

Report No.: SEFI1009109

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	11600	500	Pass
06	2437	12200	500	Pass
11	2462	11600	500	Pass

Channel 01 (2412MHz)



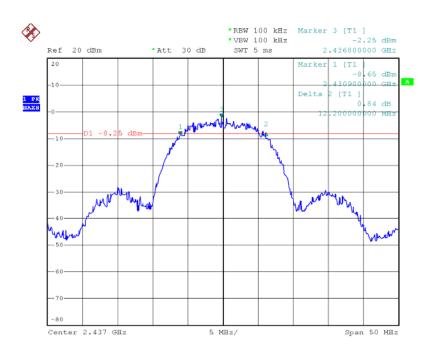
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

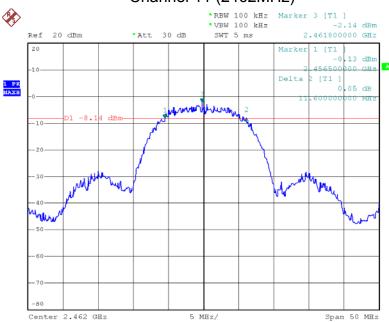
Page No. : 25 of 54

Channel 06 (2437MHz)

Report No.: SEFI1009109



Channel 11 (2462MHz)



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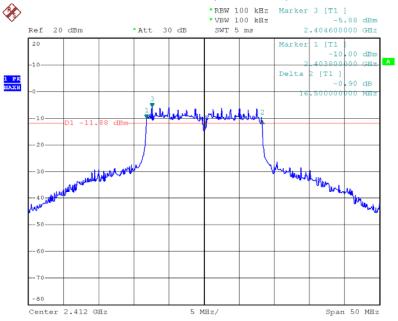
Issued Date : Dec 15,2010

Page No. : 26 of 54

Test Item	Occupied Bandwidth
Test Mode	Transmit by 802.11g
Test Date	2010-12-10

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16500	500	Pass
06	2437	16500	500	Pass
11	2462	16500	500	Pass

Channel 01 (2412MHz)



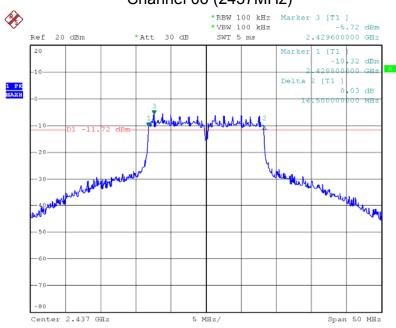
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

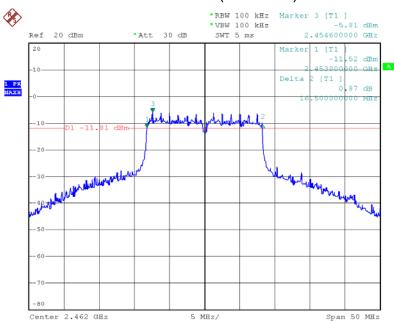
Page No. : 27 of 54

Channel 06 (2437MHz)

Report No.: SEFI1009109



Channel 11 (2462MHz)



6. Maximum Peak Output Power

6.1. Test Limit

The maximum peak power shall be less 1Watt (30dBm).

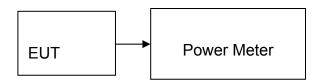
The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of standard FCC part 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6 dBi.

Report No.: SEFI1009109

6.2. Test Procedure

The transmitter output is connected to the Power Meter.

6.3. Test Setup Layout



6.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Power Meter	NRP	R&S	CCE013	2010.01.15
Power Sensor	NRP-Z91	R&S	100385	2010.01.15
Temperature/	Zhichona	704.44	CED TH 002	2010 00 17
Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 29 of 54



6.5. Test Result and Data

Test Item	Maximum Peak Output Power
Test Mode	Transmit by 802.11b
Test Date	2010-12-10

Report No.: SEFI1009109

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm)	(dBm)	
01	2412	11.53	30	Pass
06	2437	12.13	30	Pass
11	2462	12.65	30	Pass

Test Item	Maximum Peak Output Power
Test Mode	Transmit by 802.11g
Test Date	2010-12-10

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm) (dBm)		
01	2412 10.98		30	Pass
06	2437	11.61	30	Pass
11	2462	11.83	30	Pass

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 30 of 54

7. **Band Edges**

7.1. Test Limit

For RF Conducted requirement:

20 dB bandwidth of the emission is contained within the operation frequency band.

For RF Radiated requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Report No.: SEFI1009109

7.2. Test Procedure

For RF Conducted Measurement:

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

For RF Radiated Measurement:

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

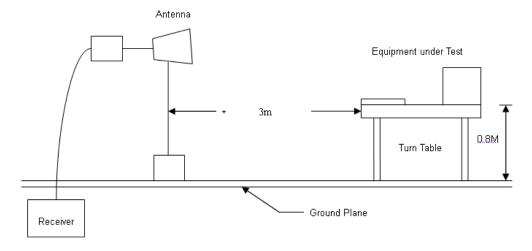
The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.

Cerpass Technology Corp. Issued Date: Dec 15,2010 Page No. : 31 of 54

7.3. Test Setup Layout





7.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14	
H64 Amplifier	HP	8447F	3113A05582	2010.08.14	
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10	
Broad-Band Horn	Schwarzbeck	BBHA9120D	9120D-619	2010.11.10	
Antenna	Scriwarzbeck	BBHA9120D	91200-019		
Temperature/	Zhiohong	ZC1-11	CEP-TH-002	2010.08.17	
Humidity Meter	Zhicheng	201-11	CEP-TH-002	2010.08.17	

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 32 of 54

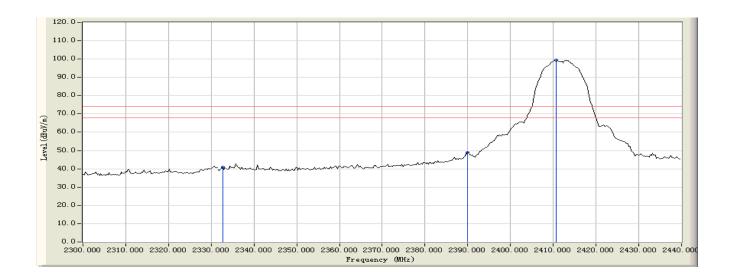
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Report No.: SEFI1009109

7.5. Test Result and Data

Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : (1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11b (2412MHz)

Report No.: SEFI1009109



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1		2332.583	0.239	42.226	42.465	-31.535	74.000	PEAK
2		2390.000	0.358	46.663	47.021	-26.979	74.000	PEAK
3	*	2410.662	0.424	99.001	99.425	N/A	N/A	PEAK

Note:

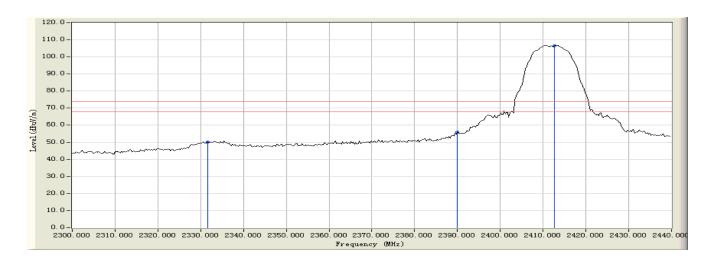
1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.

2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 33 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : Time : 2010-12-10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : (1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11b (2412MHz)



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1		2331.577	0.237	49.948	50.185	-23.815	74.000	PEAK
2		2390.000	0.358	53.480	53.838	-20.162	74.000	PEAK
3	*	2412.615	0.431	106.177	106.608	N/A	N/A	PEAK

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

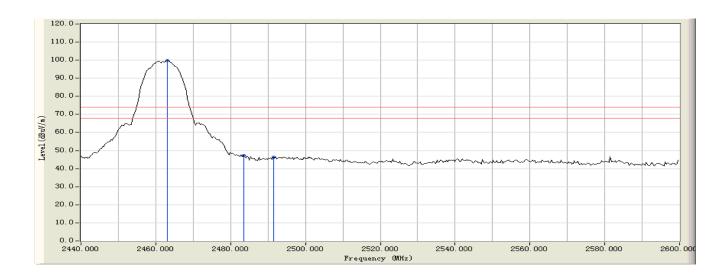
Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 34 of 54



Engineer: Jeson Site: EMC Lab AC 102 Time: Time: 2010-12-10 Limit: FCC_15_03M_PK Margin: 6 **EUT: Mobile Internet Devices** Probe: (1-18GHz) - HORIZONTAL Power: AC 120V/60Hz Note: Mode: Transmit by 802.11b (2462MHz)

Report No.: SEFI1009109



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1	*	2462.994	0.602	99.266	99.869	N/A	N/A	PEAK
2		2483.500	0.672	46.466	47.139	-26.861	74.000	PEAK
3		2491.417	0.700	45.587	46.287	-27.713	74.000	PEAK

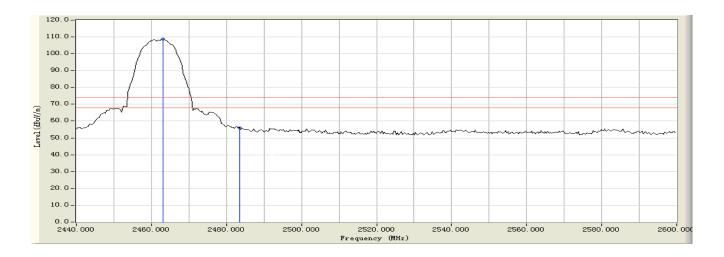
Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 35 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : Time : 2010-12-10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : (1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11b (2462MHz)



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1	*	2462.994	0.602	108.062	108.665	N/A	N/A	PEAK
2		2483.500	0.672	52.369	53.042	-20.958	74.000	PEAK

Note:

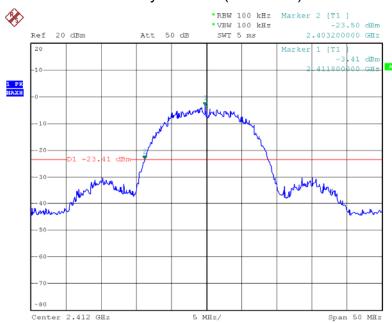
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

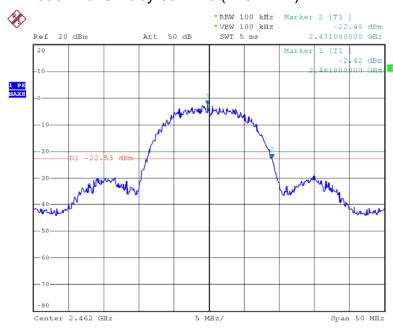
Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 36 of 54

Mode: Transmit by 802.11b (2412MHz)

Band Edge (20dBc RF Conducted Measurement)



Band Edge (20dBc RF Conducted Measurement) Mode: Transmit by 802.11b (2462MHz)



Tel:86-512-6917-5888 Fax: 86-512-6917-5666



Engineer : Jeson

Site : EMC Lab AC 102

Time : 2010-12-10

Limit : FCC_15_03M_PK

Margin : 6

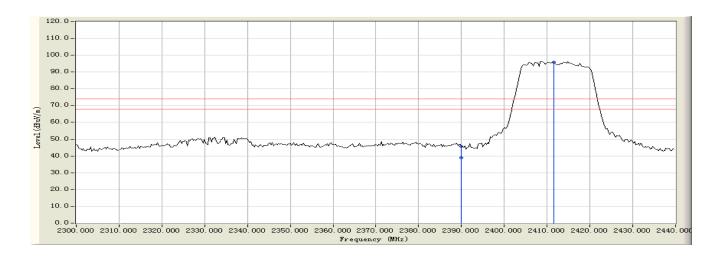
EUT : Mobile Internet Devices

Probe : (1-18GHz) - HORIZONTAL

Power : AC 120V/60Hz

Note : Mode: Transmit by 802.11g (2412MHz)

Report No.: SEFI1009109



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1		2390.000	0.358	45.460	45.818	-28.182	74.000	PEAK
2		2390.000	0.358	38.420	38.778	-15.222	54.000	AVERAGE
3	*	2411.497	0.427	95.485	95.912	N/A	N/A	PEAK

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 38 of 54



Engineer : Jeson

Site : EMC Lab AC 102

Time : 2010-12-10

Limit : FCC_15_03M_PK

Margin : 6

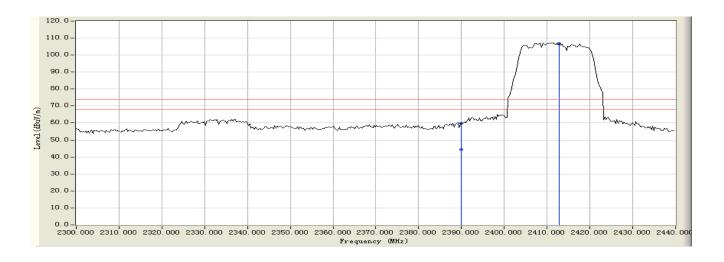
EUT : Mobile Internet Devices

Probe : (1-18GHz) - VERTICAL

Power : AC 120V/60Hz

Note : Mode: Transmit by 802.11g (2412MHz)

Report No.: SEFI1009109



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1		2390.000	0.358	59.551	59.909	-14.091	74.000	PEAK
2	*	2412.894	0.432	106.442	106.874	N/A	N/A	PEAK

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 39 of 54



Engineer : Jeson

Site : EMC Lab AC 102

Time : 2010-12-10

Limit : FCC_15_03M_PK

Margin : 6

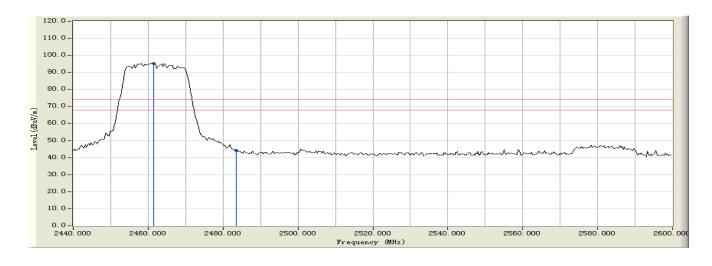
EUT : Mobile Internet Devices

Probe : (1-18GHz) - HORIZONTAL

Power : AC 120V/60Hz

Note : Mode: Transmit by 802.11g (2462MHz)

Report No.: SEFI1009109



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1	*	2461.397	0.597	94.648	95.245	N/A	N/A	PEAK
2		2483.500	0.672	43.486	44.159	-29.841	74.000	PEAK

Note:

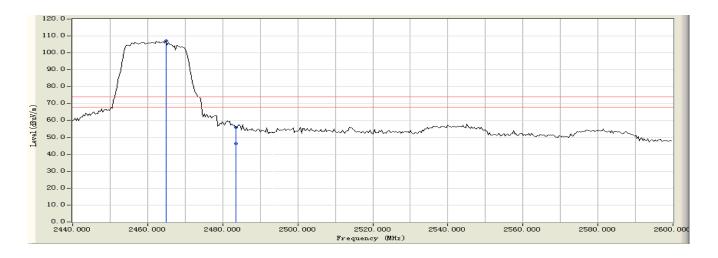
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 40 of 54



Engineer : Jeson	
Site : EMC Lab AC 102	Time : 2010-12-10
Limit : FCC_15_03M_PK	Margin : 6
EUT : Mobile Internet Devices	Probe : (1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode: Transmit by 802.11g (2462MHz)



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	Туре
1	*	2464.910	0.610	106.627	107.236	N/A	N/A	PEAK
2		2483.500	0.672	55.343	56.016	-17.984	74.000	PEAK
3		2483.500	0.672	45.610	46.283	-7.717	54.000	AVERAGE

Note:

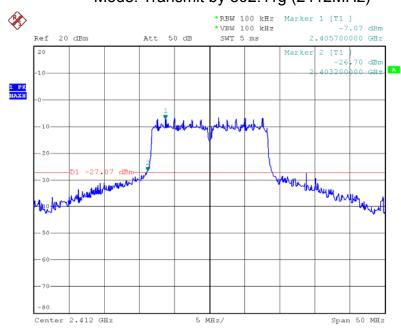
- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Cerpass Technology Corp. Issued Date : Dec 15,2010 Page No. : 41 of 54

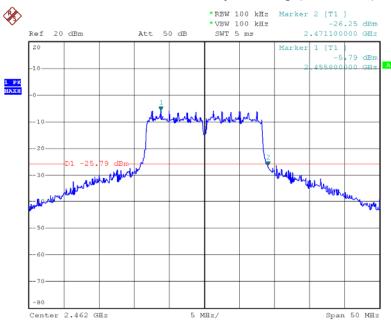
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Band Edge (20dBc RF Conducted Measurement) Mode: Transmit by 802.11g (2412MHz)

Report No.: SEFI1009109



Band Edge (20dBc RF Conducted Measurement) Mode: Transmit by 802.11g (2462MHz)



8. RF Antenna Conducted Spurious

8.1. Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional Radiator is operating, the radio frequency power that is produced by the intentional radiator shall Be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

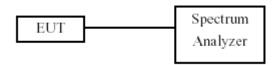
Report No.: SEFI1009109

8.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW>RBW, Sweep time=Auto, set up through 10 th harmonic.

8.3. Test Setup Layout



8.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14	
Temperature/	Zhiohona	ZC1-11	CEP-TH-002	2010.08.17	
Humidity Meter	Zhicheng	201-11	CEP-1H-002		

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 43 of 54

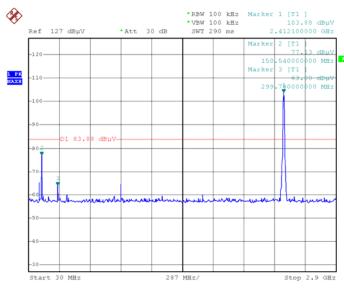
8.5. Test Result and Data

Test Item RF Antenna Conducted Spurious	
Test Mode	Transmit by 802.11b
Test Date	2010-12-13

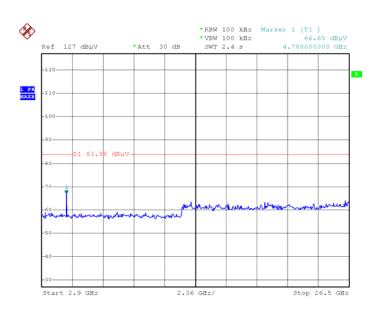
Report No.: SEFI1009109

Channel 01 (2412MHz)

30M---2.9G



2.9---26.5G

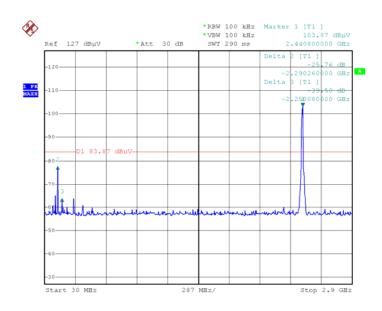


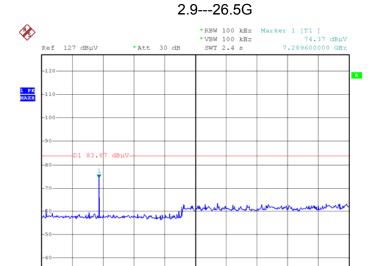
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

Page No. : 44 of 54

Channel 06 (2437MHz) 30M---2.9G





2.36 GHz/

Stop 26.5 GHz

Tel:86-512-6917-5888 Fax: 86-512-6917-5666

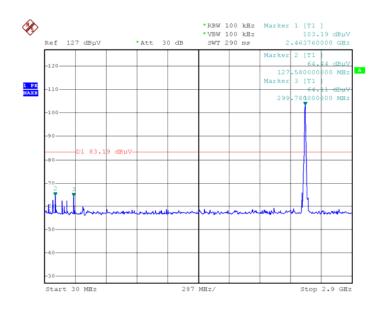
Start 2.9 GHz

Issued Date : Dec 15,2010

Page No. : 45 of 54

Channel 11 (2462MHz) 30M---2.9G

Report No.: SEFI1009109



Tel:86-512-6917-5888 Fax: 86-512-6917-5666

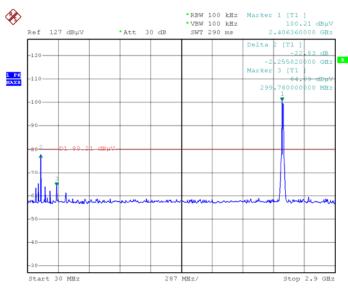
: 46 of 54

Page No.

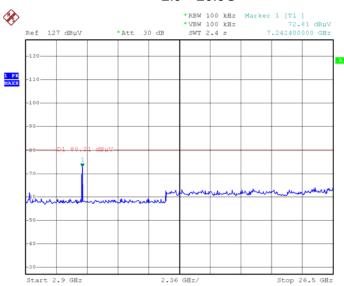
Test Item	RF Antenna Conducted Spurious
Test Mode	Transmit by 802.11g
Test Date	2010-12-13

Channel 01 (2412MHz)

30M---2.9G



2.9---26.5G



Tel:86-512-6917-5888 Fax: 86-512-6917-5666

: 47 of 54

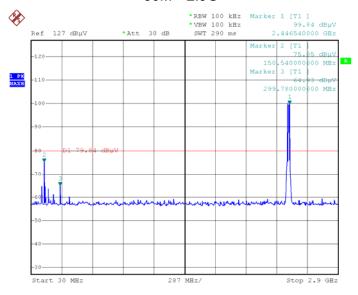
Page No.



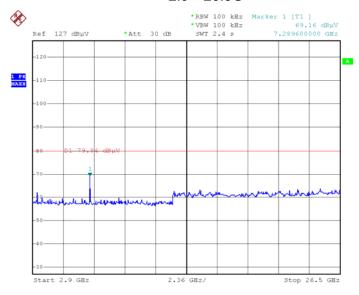
Channel 06 (2437MHz)

Report No.: SEFI1009109

30M---2.9G



2.9---26.5G



Tel:86-512-6917-5888 Fax: 86-512-6917-5666

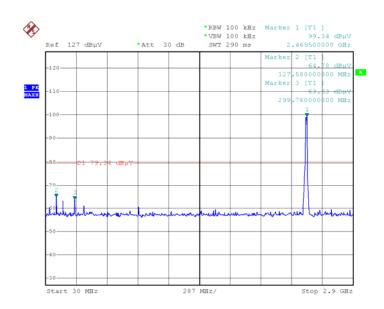
Issued Date : Dec 15,2010

Page No. : 48 of 54

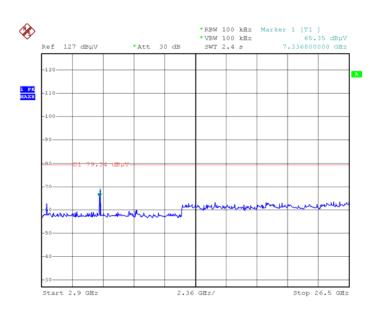


Channel 11 (2462MHz) 30M---2.9G

Report No.: SEFI1009109



2.9---26.5G



Tel:86-512-6917-5888 Fax: 86-512-6917-5666

: 49 of 54

Page No.

9. Power Spectral Density

9.1. Test Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

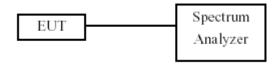
Report No.: SEFI1009109

9.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW≧ RBW, Sweep time=SPAN/3kHz, Set detector=Peak detector.

9.3. Test Setup Layout



9.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2010.08.14
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2010.08.17

Cerpass Technology Corp. Issued Date : Dec 15,2010

Tel:86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 50 of 54



CERPASS TECHNOLOGY CORP.

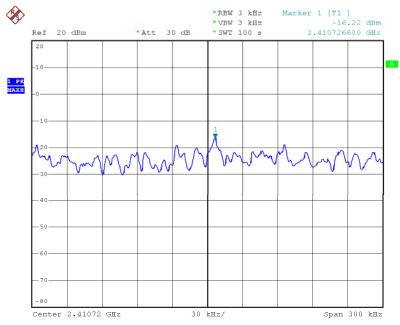
9.5. Test Result and Data

Test Item	Power Spectral Density
Test Mode	Transmit by 802.11b
Test Date	2010-12-10

Report No.: SEFI1009109

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-16.22	8	Pass
06	2437	-16.92	8	Pass
11	2462	-16.47	8	Pass

Channel 01 (2412MHz)



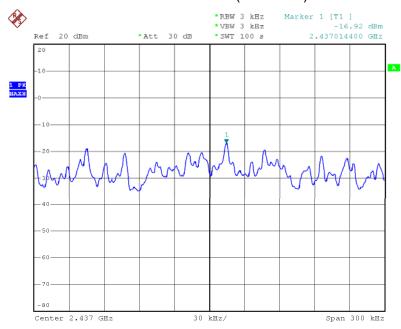
Tel:86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Dec 15,2010

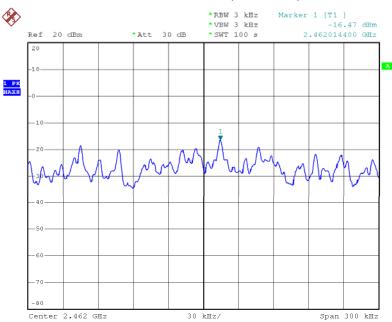
Page No. : 51 of 54

Channel 06 (2437MHz)

Report No.: SEFI1009109



Channel 11 (2462MHz)



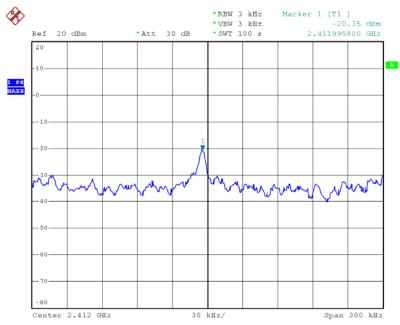
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Test Item	Power Spectral Density
Test Mode	Transmit by 802.11g
Test Date	2010-12-10

Report No.: SEFI1009109

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-20.35	8	Pass
06	2437	-20.15	8	Pass
11	2462	-19.34	8	Pass

Channel 01 (2412MHz)



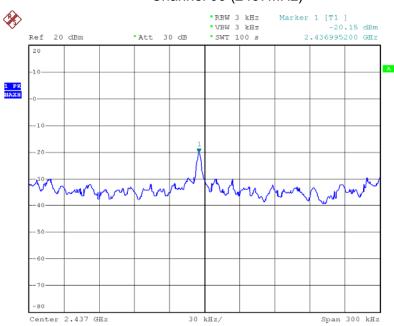
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Issued Date : Dec 15,2010

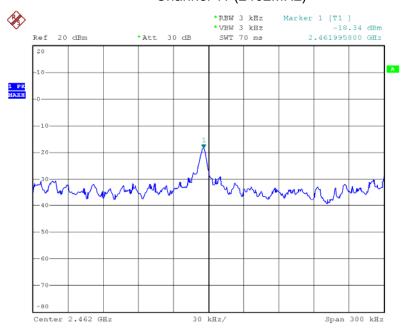
Page No. : 53 of 54

Channel 06 (2437MHz)

Report No.: SEFI1009109



Channel 11 (2462MHz)



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