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Report No.: GLEMO09080241406

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FCC ID: NAM4780621

Test Report

Application No.: GLEMO090802414IT (SGS HK NO.: 2018939/EE)

Applicant: Guillemot Corp S.A.

Equipment Under Test (EUT):

EUT Name: Netbook

Model: EC1000B

FCC ID: NAM4780621

Standards: FCC PART 15 SUBPART B:2008

Date of Receipt: 17 August 2009

Date of Test: 19 August to 03 September 2009

Date of Issue: 25 September 2009

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Stephen Guo
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

The customer requested FCC tests for a Netbook.

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150 kHz to 30 MHz)	FCC PART 15 SUBPART B:2008	ANSI C63.4:2003	Class B	PASS
Radiated Emission above 1 GHz	FCC PART 15 SUBPART B:2008	ANSI C63.4:2003	Class B	PASS
Radiated Emission (30 MHz to 1 GHz)	FCC PART 15 SUBPART B:2008	ANSI C63.4:2003	Class B	PASS



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4 General Information

4.1 Client Information

Applicant: Guillemot Corp S.A.
Address of Applicant: B.P 97143, Place du Granier, Chantepie, France, 35171

4.2 General Description of E.U.T.

EUT Name: Netbook
Model: EC1000B

4.3 Details of E.U.T.

Power Supply: AC 110-240V, 50Hz/60Hz or
DC 11.1V supply by rechargeable Battery
Battery detail: Type: Lithium-Ion
Model: SSBS16
Rating: 11.1V
Capacity: 4400mAh
AC/DC Adapter detail: Model: 0225C2040
Input: AC 100-240V, 50Hz-60Hz, 1.7A(1.7A)
Output: DC 20V, 2.0A(2.0A)
Power Cord: 2 wires x 1.8M unscreened AC in cable
2 wires x 1.8M unscreened DC out cable

4.4 Description of Support Units

The EUT has been tested with 2 USB disk and a mouse connected to the USB port and a monitor connected to the VGA port, Microphone port and 4 in 1 port all connected to corresponding impedance or load terminal.

Peripheral details list(Maybe use):

Test PC 1			
Personal Computer	DELL	WORKSTATION 690	3R5592X
Monitor	SAMSUNG	225MS	CR22HVM900646W
Mouse	DELL	MOC5UO	G1B02ZP5
Keyboard	DELL	SK-8115	CN-ODJ331-71616-7B1-109J
Test PC 2			
Personal Computer	DELL	OPTIPLEX 755	D6JF82X
Monitor	DELL	MOR-SP2208WFPt(B)	CN-OPK573-71618-831-119U
Mouse	DELL	M-WDEL1	OT0943
Keyboard	DELL	SK-8115	CN-ODJ331-71616-7B1-109J



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Test PC 3			
Personal Computer	DELL	OPTIPLEX 330	7JZ382X
Monitor	DELL	E228WFPc	CN-OPN380-64180-7CJ-1DXL
Mouse	DELL	MOC5UO	G1B02ZP5
Keyboard	CHERRY	RS 6000M	G 00005662 Q242 III
Test PC 4			
Personal Computer	HP	DX7208	CNG62707HF
Monitor	HP	D8904	L0204H094
Mouse	DELL	MOC5UO	G1B02ZP5
Keyboard	DELL	SK-8135	N/A
Notebook			
NoteBook	IBM	T40	99-FBAF9 03/09
NoteBook	Lenovo	R400	L3-ABB9E
Printer			
Printer	DELL	4470-AD1 (926B)	CN-OGH204-48734-69Q-7K78
Printer	HP	C5884A	SG78D1H18F
Other Peripheral			
DV	SONY	DCR-HC28	375383
Portable Hard disk	MSI	2.5" USB2.0 MOBILE HDD(250GB)	HKC08-J/L8022438329
Portable Hard disk	SAMSUNG	HM320JI(320GB)	S16LJD0Q543275
ROM Programmer	DASI Electronics	EMP-100A	N/A
GROUP PHONE SYSTEM	HB	WS824(1)	241342207120130

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

Date of Registration: February 18, 2009. Valid until February 18, 2011.

- **VCCI (Registration No.: R-2460 and C-2584)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rules of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.

This certificate was issued Dec.04.2006 and valid until Oct.12.2009.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.



5 Equipments Used during Test

Conducted Emission						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	N/A	N/A
EMC0102	LISN	Schaffner Chase	MNZ050D/1	1421	14-12-2008	14-12-2009
EMC0118	Two-line v-netwok	Rohde & Schwarz	ENV216	3560.6550.02	18-08-2009	18-08-2010
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	14-12-2008	14-12-2009
EMC0107	Coaxial Cable	SGS	2m	N/A	26-11-2008	26-11-2009
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	N/A
EMC0120	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	21-02-2009	21-02-2010
EMC0121	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	21-02-2009	21-02-2010
EMC0122	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	21-02-2009	21-02-2010

RE in Chamber						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	N/A	N/A
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	28-01-2009	28-01-2010
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	14-07-2009	14-07-2010
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2008	04-12-2009
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	08-10-2008	08-10-2009
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	08-10-2008	08-10-2009
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	09-09-2009	09-09-2010
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2008	05-12-2009
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	11-03-2009	11-03-2010
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	11-03-2009	11-03-2010
EMC0075	310N Amplifier	Sonama	310N	272683	06-10-2008	06-10-2009
EMC0523	Active Loop Antenna	EMCO	6502	00042963	08-10-2009	08-10-2010
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	02-06-2009	02-06-2010

General used equipment						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0006	DMM	Fluke	73	70681569	23-12-2008	23-12-2009
EMC0007	DMM	Fluke	73	70671122	23-12-2008	23-12-2009

6 Emission Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30 MHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Test Date:	19 August 2009
Frequency Range:	150 kHz to 30 MHz
Class / Severity:	Class B
Detector:	Peak for pre-scan (9 kHz Resolution Bandwidth) Quasi-Peak if maximised peak within 6 dB of Quasi-Peak limit

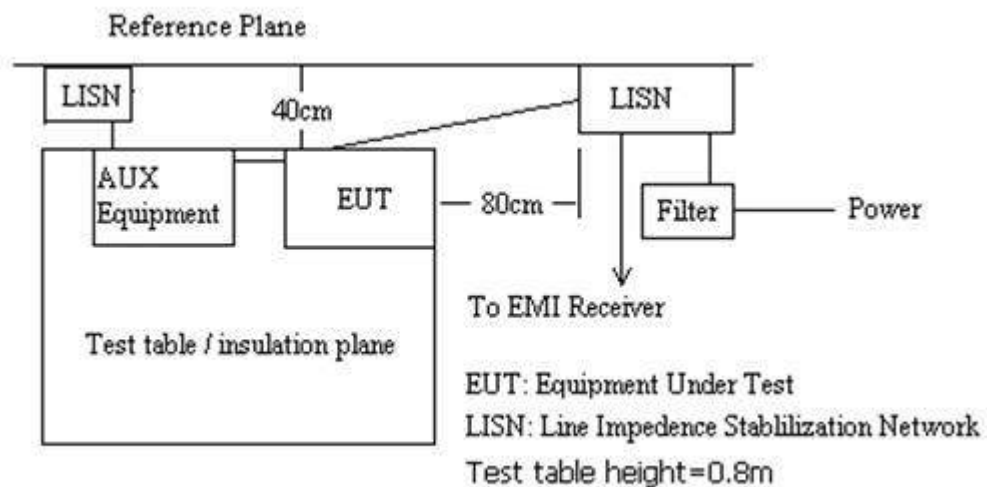
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test the EUT in on mode, running the burn in test software to test all hardware.

6.1.2 Plan View of Test Setup



6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on the EUT:



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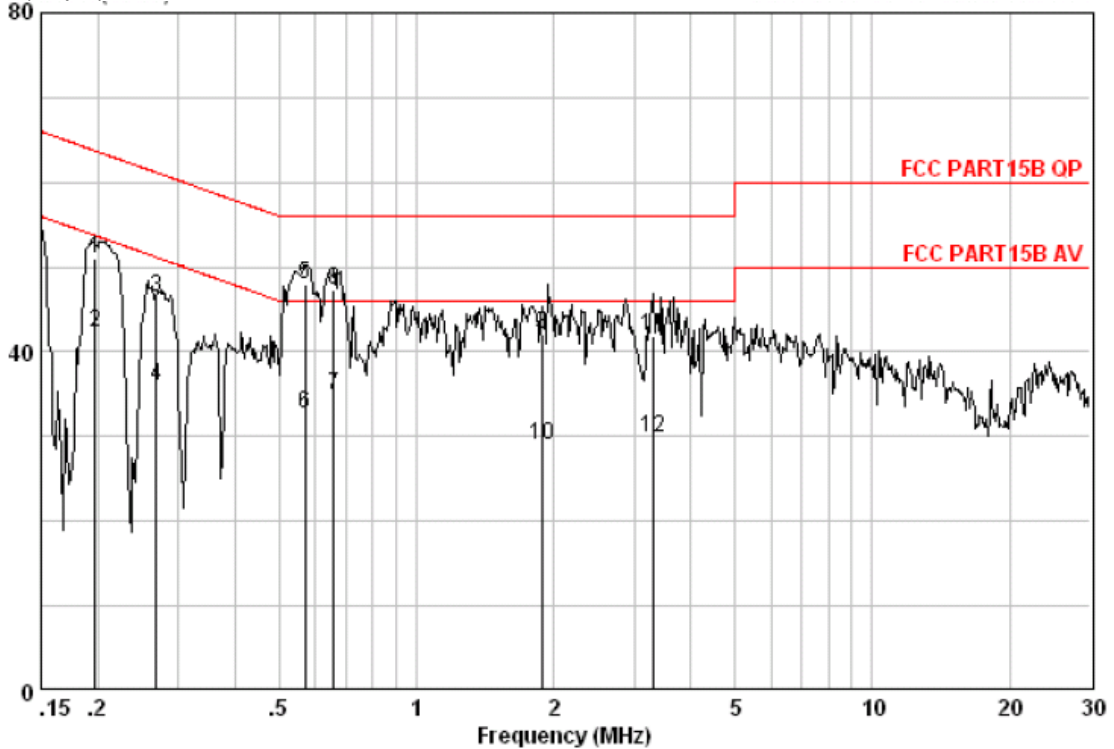
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Live Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement:

Freq MHz	Cable Loss dB	LISN Factor dB	Read Level dBuV	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.19720	0.04	-0.05	51.10	51.09	63.73	-12.63	QP
0.19720	0.04	-0.05	42.20	42.19	53.73	-11.53	Average
0.26800	0.05	-0.04	46.40	46.40	61.18	-14.78	QP
0.26800	0.05	-0.04	36.00	36.00	51.18	-15.18	Average
0.56810	0.06	-0.04	48.00	48.02	56.00	-7.98	QP
0.56810	0.06	-0.04	32.70	32.72	46.00	-13.28	Average
0.65760	0.06	-0.05	34.90	34.91	46.00	-11.09	Average
0.65760	0.06	-0.05	47.30	47.31	56.00	-8.69	QP
1.883	0.11	-0.06	42.00	42.05	56.00	-13.95	QP
1.883	0.11	-0.06	29.00	29.05	46.00	-16.95	Average
3.300	0.15	-0.08	41.80	41.87	56.00	-14.13	QP
3.300	0.15	-0.08	29.80	29.87	46.00	-16.13	Average



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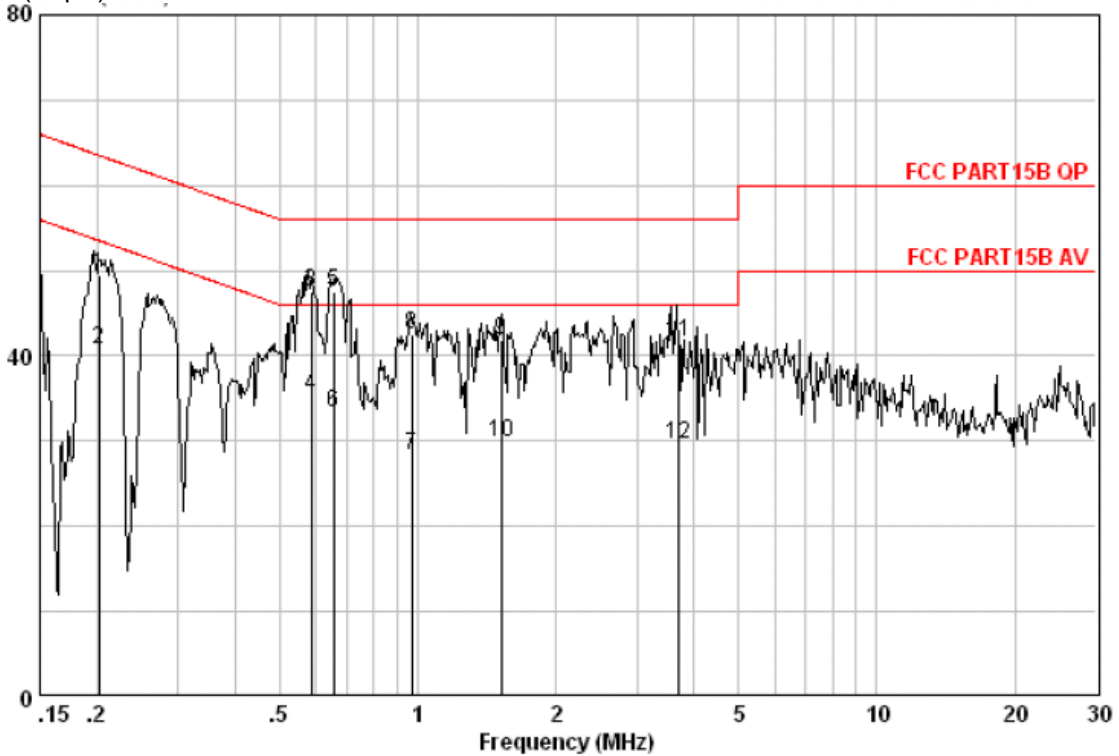
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FCC ID: NAM4780621

Neutral Line

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement:

Freq MHz	Cable Loss dB	LISN Factor dB	Read Level dBμV	Level dBμV	Limit Line dBμV	Over Limit dB	Remark
0.20160	0.04	-0.04	49.50	49.50	63.54	-14.05	QP
0.20160	0.04	-0.04	40.70	40.70	53.54	-12.85	Average
0.58440	0.06	-0.04	47.40	47.42	56.00	-8.58	QP
0.58440	0.06	-0.04	35.40	35.42	46.00	-10.58	Average
0.65620	0.06	-0.04	47.50	47.52	56.00	-8.48	QP
0.65620	0.06	-0.04	33.30	33.32	46.00	-12.68	Average
0.97070	0.08	-0.04	28.30	28.33	46.00	-17.67	Average
0.97070	0.08	-0.04	42.40	42.43	56.00	-13.57	QP
1.520	0.10	-0.05	41.90	41.95	56.00	-14.05	QP
1.520	0.10	-0.05	29.90	29.95	46.00	-16.05	Average
3.691	0.15	-0.09	41.50	41.56	56.00	-14.44	QP
3.691	0.15	-0.09	29.50	29.56	46.00	-16.44	Average

6.2 Radiated Emissions, 30 MHz to 1 GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Test Date:	03 September 2006
Frequency Range:	30 MHz to 1 GHz
Measurement Distance:	10 m
Class:	Class B
Limit:	29.5 dB μ V/m between 30 MHz & 88 MHz 33.1 dB μ V/m between 88 MHz & 216 MHz 35.6 dB μ V/m between 216 MHz & 960 MHz 43.5 dB μ V/m above 960 MHz
Detector:	Peak for pre-scan (120 kHz resolution bandwidth) Quasi-Peak if maximised peak within 6 dB of limit

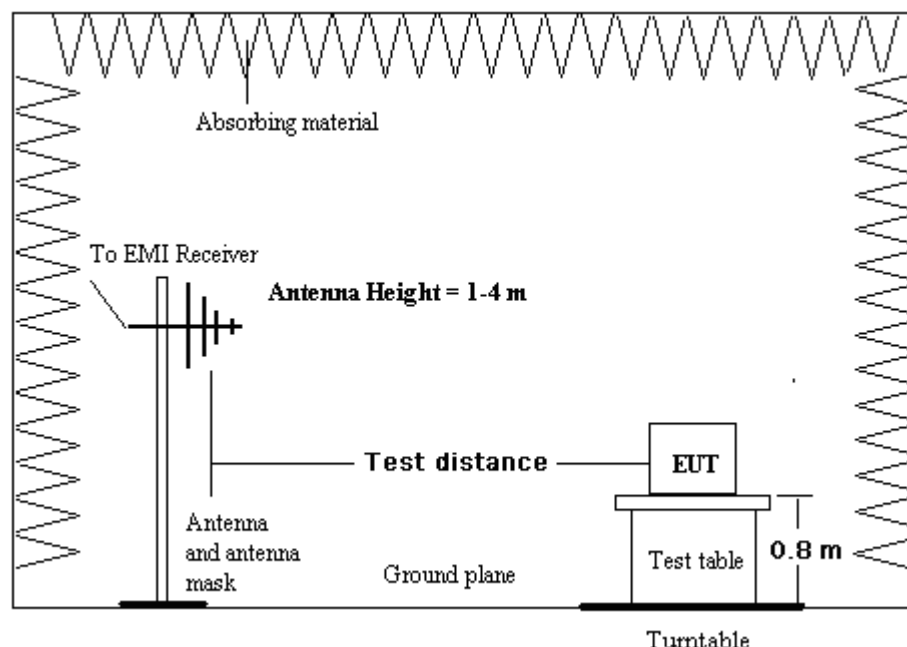
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 50 % RH Atmospheric Pressure: 1024 mbar

EUT Operation: Test the EUT in on mode, running the burn in test software to test all hardware.

6.2.2 Test Setup





6.2.3 Measurement Data

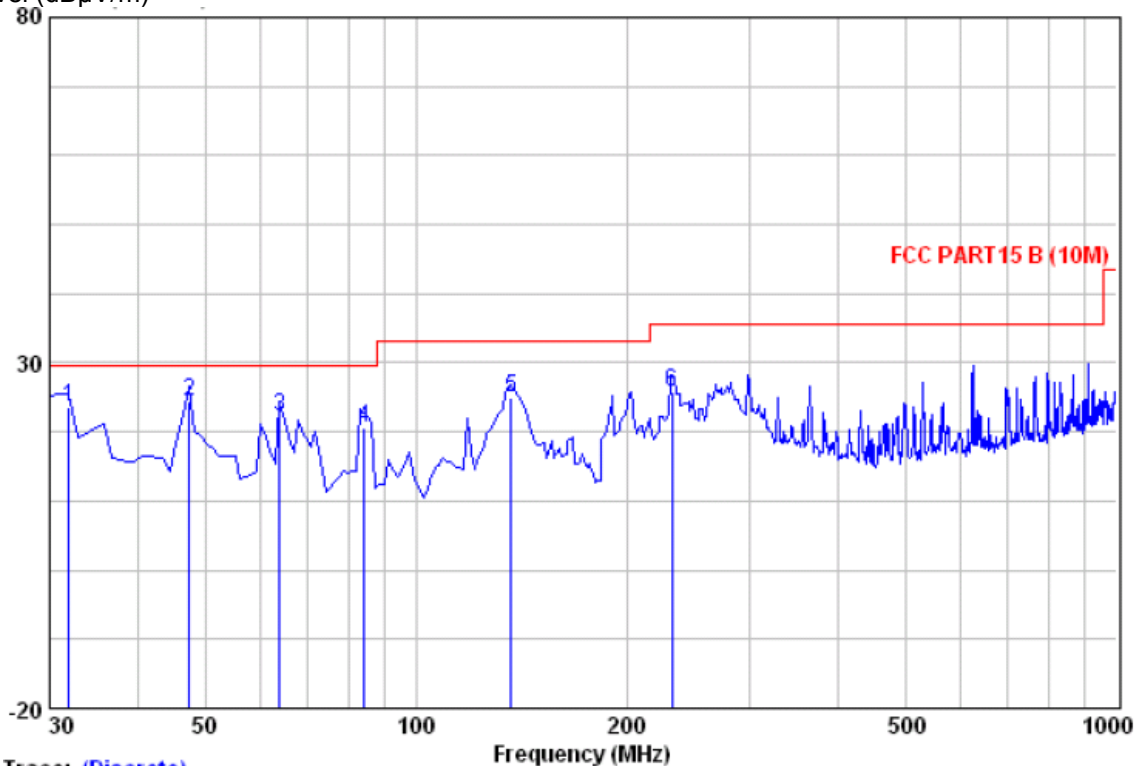
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.

The following quasi-peak measurements were performed on the EUT:

Vertical:

Peak scan

Level (dBμV/m)



Trace: (Discrete)

Quasi-peak measurement

Freq	ReadAntenna	Cable	Preamp	Limit	Over		
MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	dBμV	dB/m	dB	dB	dBμV/m	dBμV/m	dB
31.940	37.10	17.20	0.40	31.20	23.50	29.50	-6.00 QP
47.460	45.95	9.04	0.70	31.20	24.49	29.50	-5.01 QP
63.950	48.21	4.53	0.70	31.20	22.24	29.50	-7.26 QP
84.320	43.70	7.53	0.70	31.20	20.72	29.50	-8.78 QP
136.700	43.98	11.17	1.00	31.20	24.94	33.10	-8.16 QP
231.760	45.38	10.40	1.30	31.18	25.90	35.60	-9.70 QP



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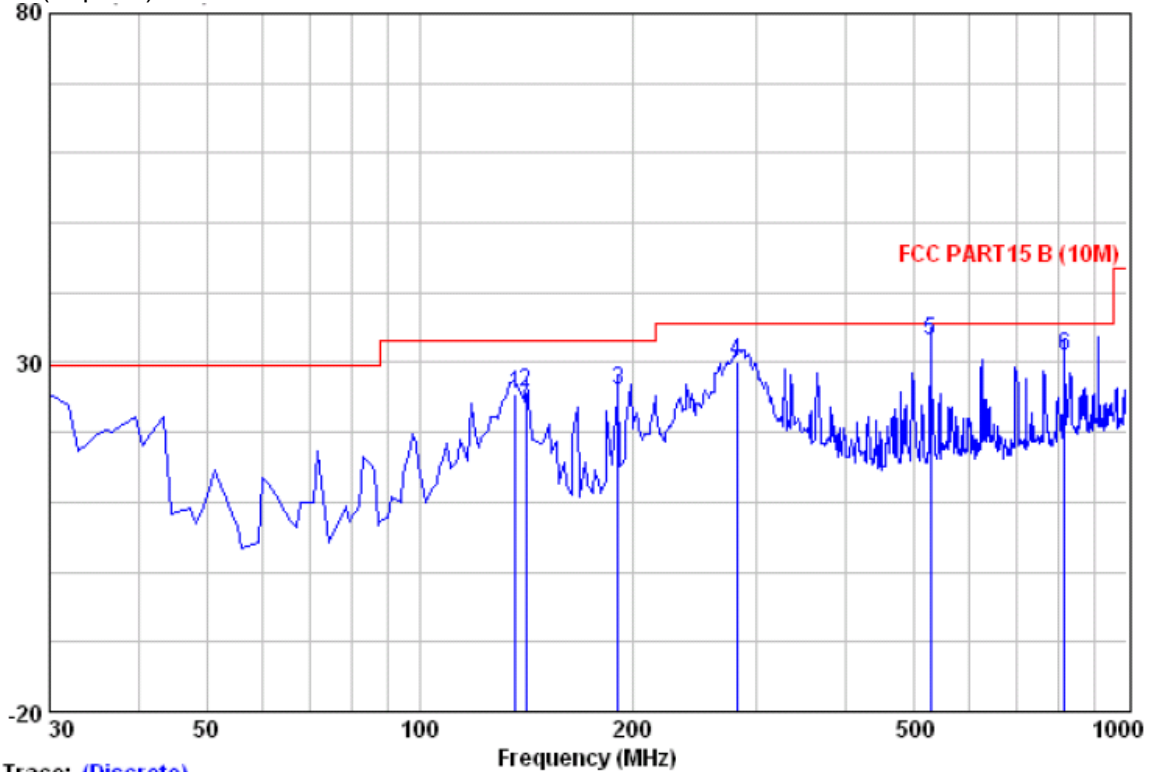
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Horizontal:

Peak scan

Level (dBμV/m)



Trace: (Discrete)

Quasi-peak measurement

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
MHz	dBμV	dB/m	dB	dB	dBμV/m	dBμV/m	dB	
136.700	44.53	11.17	1.00	31.20	25.50	33.10	-7.60	QP
141.550	45.07	10.83	1.00	31.20	25.70	33.10	-7.40	QP
191.020	47.32	8.63	1.20	31.10	26.05	33.10	-7.05	QP
281.230	47.49	12.30	1.50	31.10	30.19	35.60	-5.41	QP
528.580	44.60	17.52	2.10	31.16	33.06	35.60	-2.54	QP
816.670	39.09	20.50	2.70	31.20	31.09	35.60	-4.51	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

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6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 B
 Test Method: ANSI C63.4
 Test Date: 03 September 2009
 Frequency Range: 1 GHz to 8 GHz
 Measurement Distance: 3 m
 Class: Class B
 Detector: Peak for pre-scan
 Peak and Average(1 MHz resolution bandwidth) if maximised peak within 6 dB of limit

Limit:

Frequency range GHz	Peak limits dB (µV/m)
1 to 8	54

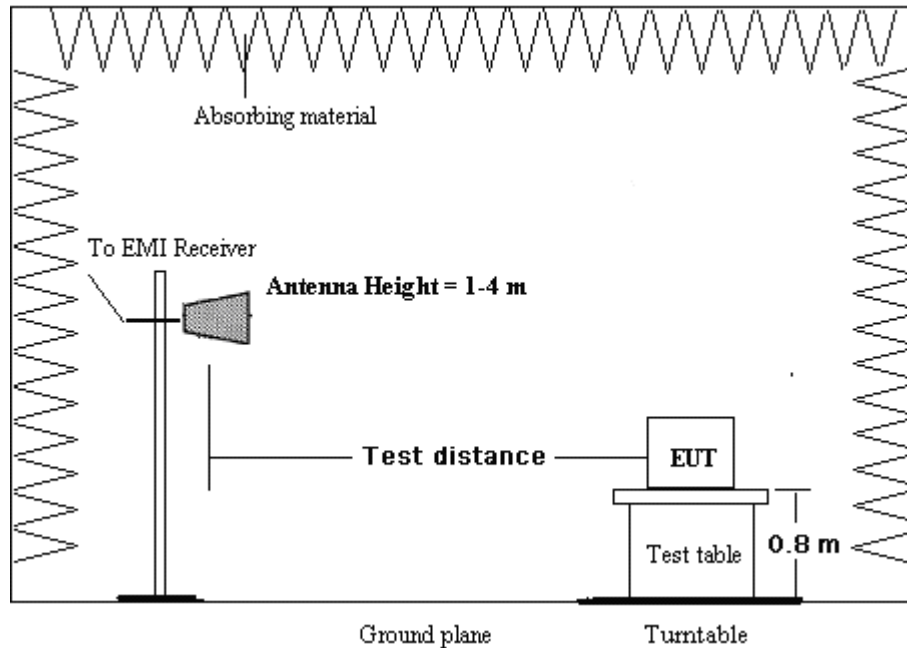
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 56% RH Atmospheric Pressure: 1017 mbar

EUT Operation: Test the EUT in on mode, running the burn in test software to test all hardware.

6.3.2 Test Setup



6.3.3 Measurement Data

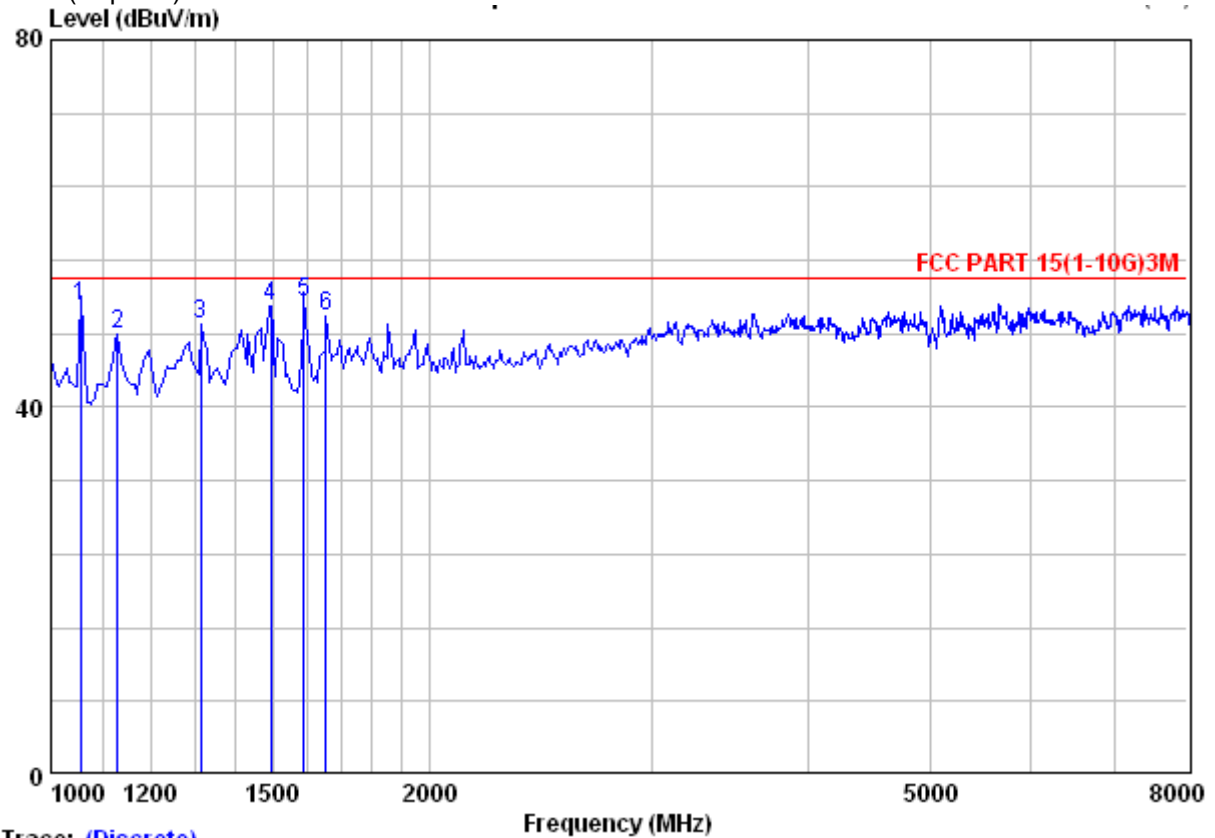
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.

Please see the attached Peak and Average test results.

Vertical:

Peak scan

Level (dBµV/m)



Trace: (Discrete)

Peak measurement:

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
MHz	dBµV	dB/m	dB	dB	dBµV/m	dBµV/m	dB	
1055.000	57.70	24.03	4.52	35.14	51.11	54.00	-2.89	Peak
1130.000	54.21	24.28	4.66	35.19	47.97	54.00	-6.03	Peak
1315.000	54.42	24.84	5.03	35.30	48.99	54.00	-5.01	Peak
1495.000	55.45	25.49	5.39	35.39	50.94	54.00	-3.06	Peak
1590.000	55.44	25.97	5.49	35.43	51.45	54.00	-2.55	Peak
1655.000	53.52	26.28	5.66	35.46	49.99	54.00	-4.01	Peak



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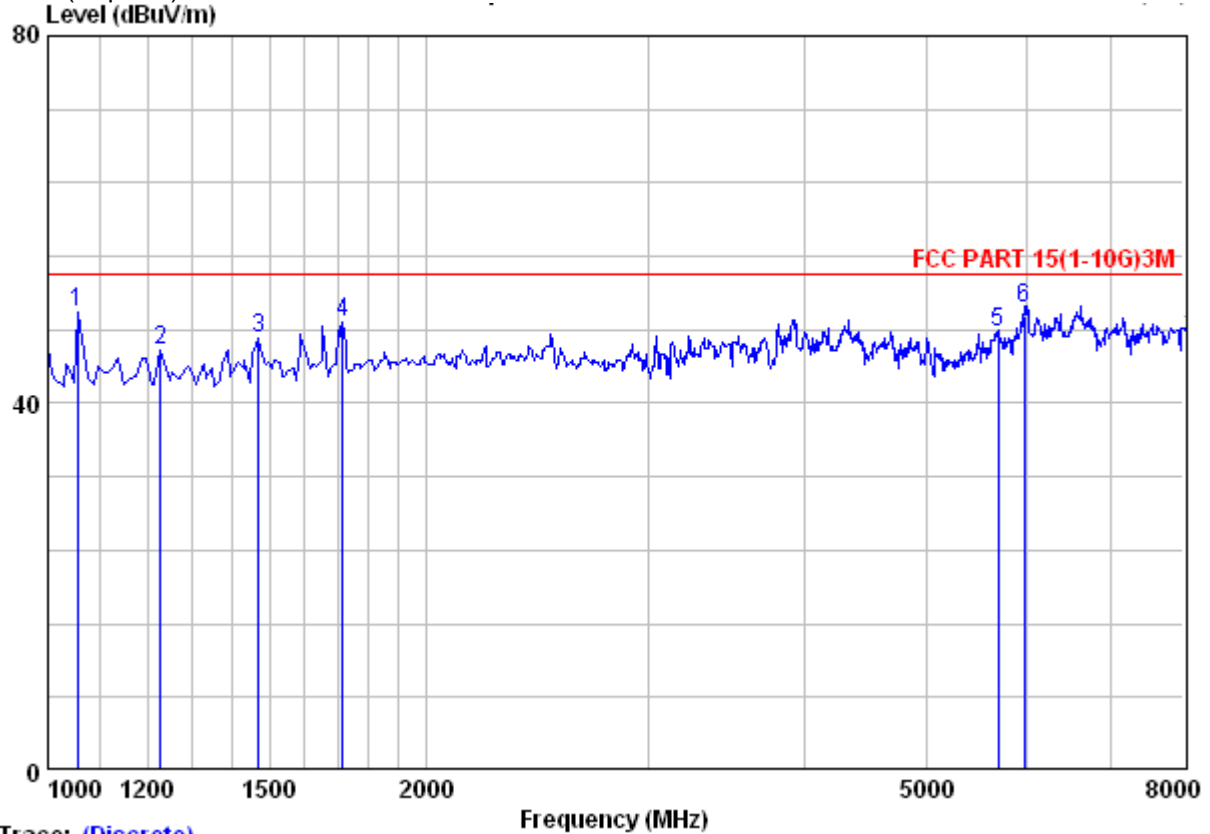
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Horizontal:

Peak scan

Level (dBμV/m)



Trace: (Discrete)

Peak measurement:

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1055.000	56.48	24.03	4.52	35.14	49.89	54.00	-4.11	Peak
1230.000	51.60	24.59	4.86	35.25	45.80	54.00	-8.20	Peak
1470.000	51.68	25.41	5.34	35.38	47.06	54.00	-6.94	Peak
1715.000	52.07	26.52	5.82	35.49	48.92	54.00	-5.08	Peak
5700.000	37.45	34.08	11.70	35.41	47.81	54.00	-6.19	Peak
5980.000	39.68	34.64	11.40	35.40	50.32	54.00	-3.68	Peak

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

--End of report--