Test Report for FCC

FCC ID : U7XMC-7500S

Report Number		ESTF150805-006(1)		
Applicant	Company name	Mobile Compia Co., Ltd.		
	Address	DongWon B/D, 725-30, Yeoksam-dong, Gangnam-gu, Seoul, 135-080, Korea		
	Telephone	82-2-574-0037(140)		
Product	Product name	Portable Data Collection Terminal		
	Model No.	MC-7500S	Manufacturer	Mobile Compia Co., Ltd.
	Serial No.	NONE	Country of origin	KOREA
Test date	2008-3-4 ~ 2008-6-12		Date of issue	12-Jun-08
Testing location	ESTECH. Co., Ltd. 97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea			
Standard	FCC PART 15 2007 , ANSI C 63.4 2003			
Test item	■ Conducted Emission	□ Class A ■ Class B	Test result	OK
	■ Radiated Emission	□ Class A ■ Class B	Test result	OK
Measurement facility registration number	94696			
Tested by	Engineer J.H.Kim	(Signature)		
Reviewed by	Engineering Manager J.M.Yang	(Signature)		
Abbreviation	OK, Pass = Passed, Fail = Failed, N/A = not applicable			

* Note

- This test report is not permitted to copy partly without our permission
- This test result is dependent on only equipment to be used
- This test result based on a single evaluation of one sample of the above mentioned

Contents

1. Laboratory Information

1.1 General

This EUT (Equipment Under Test) has been shown to be capable of compliance with the applicable technical standards and is tested in accordance with the measurement procedures as indicated in this report.
ESTECH Lab attests to accuracy of test data. All measurement reported herein were performed by ESTECH Co., Ltd.
ESTECH Lab assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

1.2 Test Lab.

Corporation Name : ESTECH Co. Ltd

Head Office : Rm 1015, World Venture Center II, 426-5, Gasan-dong, Geumcheon-gu, Seoul, Kor
(Safety & Telecom. Test Lab)

EMC Test Lab : 58-1 Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea
97-1 Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

1.3 Official Qualification(s)

MIC : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication
KOLAS : Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements
FCC : Filed Laboratory at Federal Communications Commission
VCCI : Granted Accreditation from Voluntary Control Council for Interference from ITE

2. Description of EUT

2.1 Summary of Equipment Under Test

Product name	:	Portable Data Collection Terminal
Model Number	:	MC-7500S
Serial Number	:	NONE
Manufacturer	:	Mobile Compia Co., Ltd.
USB Cable	:	Shield, Detachable, 1.5m, with two cores
Docking Cradle	:	MC-6000SC, (USB/DC power)ports,
Earphone	:	Unshield, Detachable, 1m
Power code 1	:	Unshield, Detachable, 1m
Power code 2	:	Unshield, Undetachable, 1m , with one core
Country of origin	:	KOREA
Rating	:	AC 100-250V ~ 50/60Hz 0.5A , OUTPUT : DC 5V 3.0A
	:	3.7Vd.c Li-ion battery
X-tal list(s)	:	13.00MHz, 32.768KHz, 40MHz, 31.86MHz, 14.7456MHz(2ea), 12.9024MHz
Receipt Date	:	29-Feb-08

2.2 Peripheral(s)

Note-PC	:	M/N:PP11L , S/N:48613-53E-1495 , Manufacturer:Dell
PC Adapter	:	M/N:PA-1650-05DK , S/N:0475 , Manufacturer:Dongguang. 1m, with one core,
Power code	:	Unshield, Detachable,1m
Printer	:	M/N:LQ-570H+ , S/N:B1021095782 , Manufacturer:Trigem Computer Inc.
D-sub cable	:	Shield, Detachable
Power code	:	Unshield, Detachable ,2m
Keyboard	:	M/N:SK-8115 , S/N:71616-01K-19FM , Manufacturer:YET Foundate Ltd.
USB Cable	:	Shield, Undetachable, 2m , with one core
Mouse	:	M/N:Wheel Mouse Optical , S/N:2896557-6 , Manufacturer:Microsoft
USB Cable	:	Shield, Undetachable, 2m , with one core

Specification(s)

OS	Windows Mobile 5.0	
CPU	INTEL PXA-270 520Mhz/ 624MHz	
ROM	Flash ROM 128MB	
RAM	SDRAM 128MB	
LCD	3.5" 65K color	
DIMENSION	78.6 x 163.5 x 24.9mm	
INPUT	Touch Screen	
I/O PORT	USB Host, USB Client, External Serial Port, Microphone, Speaker, Stereo Ear-mic jack	
MEMORY SLOT	Mini SD Slot	
BATTERY	3.7V	
SCANNER	Symbol/Intermec/ Opticon	
GPS	GPS Module(INTERNAL)	
Bluetooth	HBM2X1M	
WIRELESS	WLAN(802.11b/g), IrDA	
CAMERA	2.0M w/ LED flash	
CAMERA	PEN	Stylus Pen
ACCESSORY	ADAPTER	INPUT : AC 100-250V, OUTPUT : DC5V / 3A
	HEADSET	Speaker, Mic, Call Key
	CRADLE	1Slot Desktop Cradle, 4Slots Ethernet Cradle, 4Slots

Used frequency band		GSM 850 (TX) 824 ~ 849 MHz / (RX) 869 ~ 894 MHz GSM 1800 (TX) 1710 ~ 1785 MHz / (RX) 1805 ~ 1880 MHz
Band width		200 KHz
External appearance		78.6 x 163.5 x 24.9mm (Width x length x height)
Weight		320g
Transmission output power		Maximum 0.3W
Operational Temperature	Main body	-10 ℃ ~ +50 ℃
	Adapter	-10 ℃ ~ +50 ℃
Relative Humidity		5% ~ 80%
AC Power		Input : AC 100 ~ 250V, 50 ~ 60Hz Output : DC +5.2V, 3.0A

3. Test Standards

Test Standard : FCC PART 15 (2007)

This Standard sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

Test Method : ANSI C 63.4 (2003)

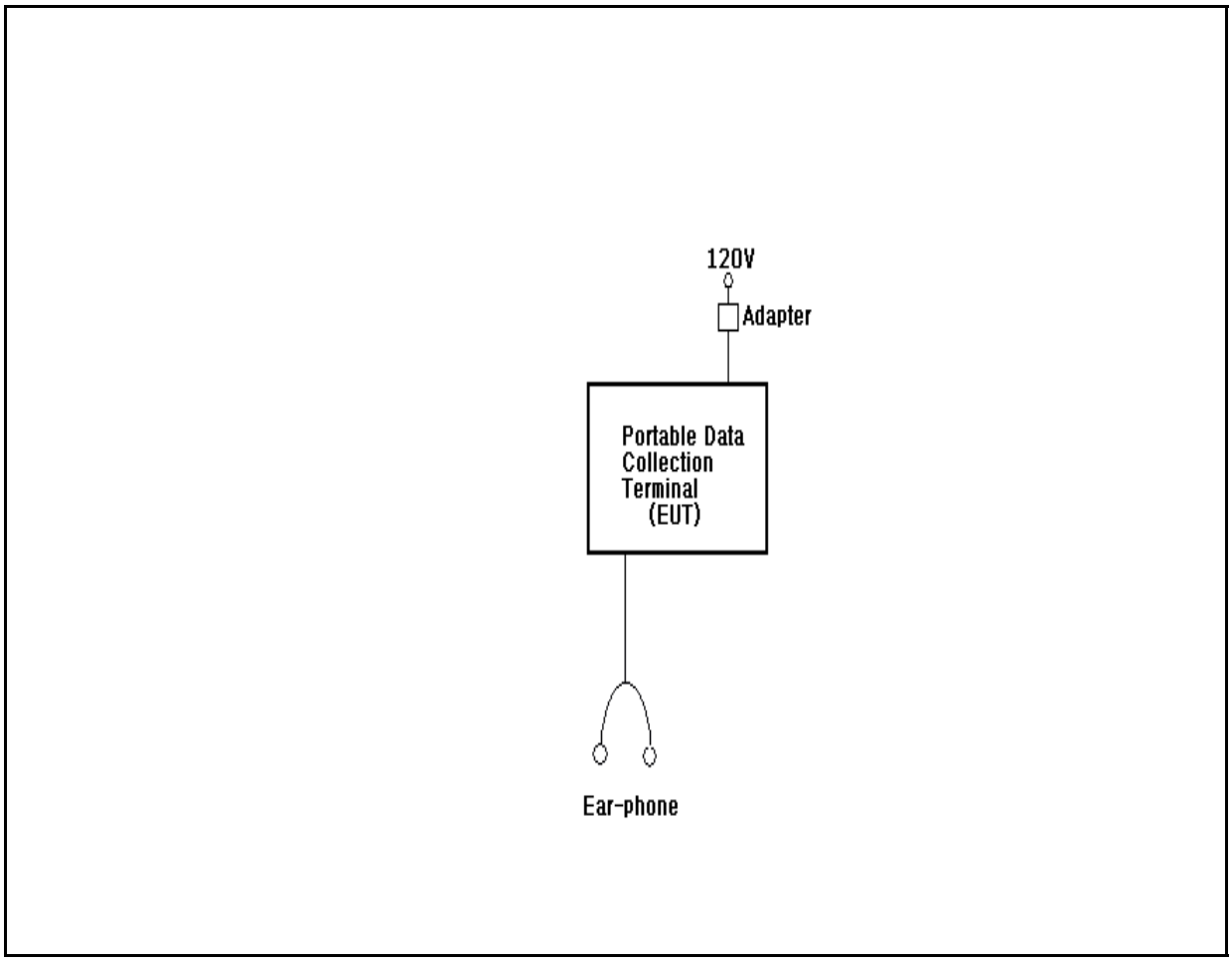
This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and may be applied to any such equipment unless otherwise specified by individual equipment requirements. These methods cover measurement of certain decides that deliberately radiate energy, such as intentional emitters, but does not cover licensed transmitters. This standard is not intended for certification/approval of avionic equipment or for industrial, scientific, and medical (ISM) equipment These method apply to the measurement of individual units or systems comprised of multiple units

4.Measurement Condition(Test mode : PDA)

4.1 EUT Operation.

* The EUT was in the following operation mode during all testing
* The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected hightest level of emission.
* After setting as test arrangment diagram, tested image data and "H" character doing display on PDA Screen.

4.2 Configuration and Peripherals

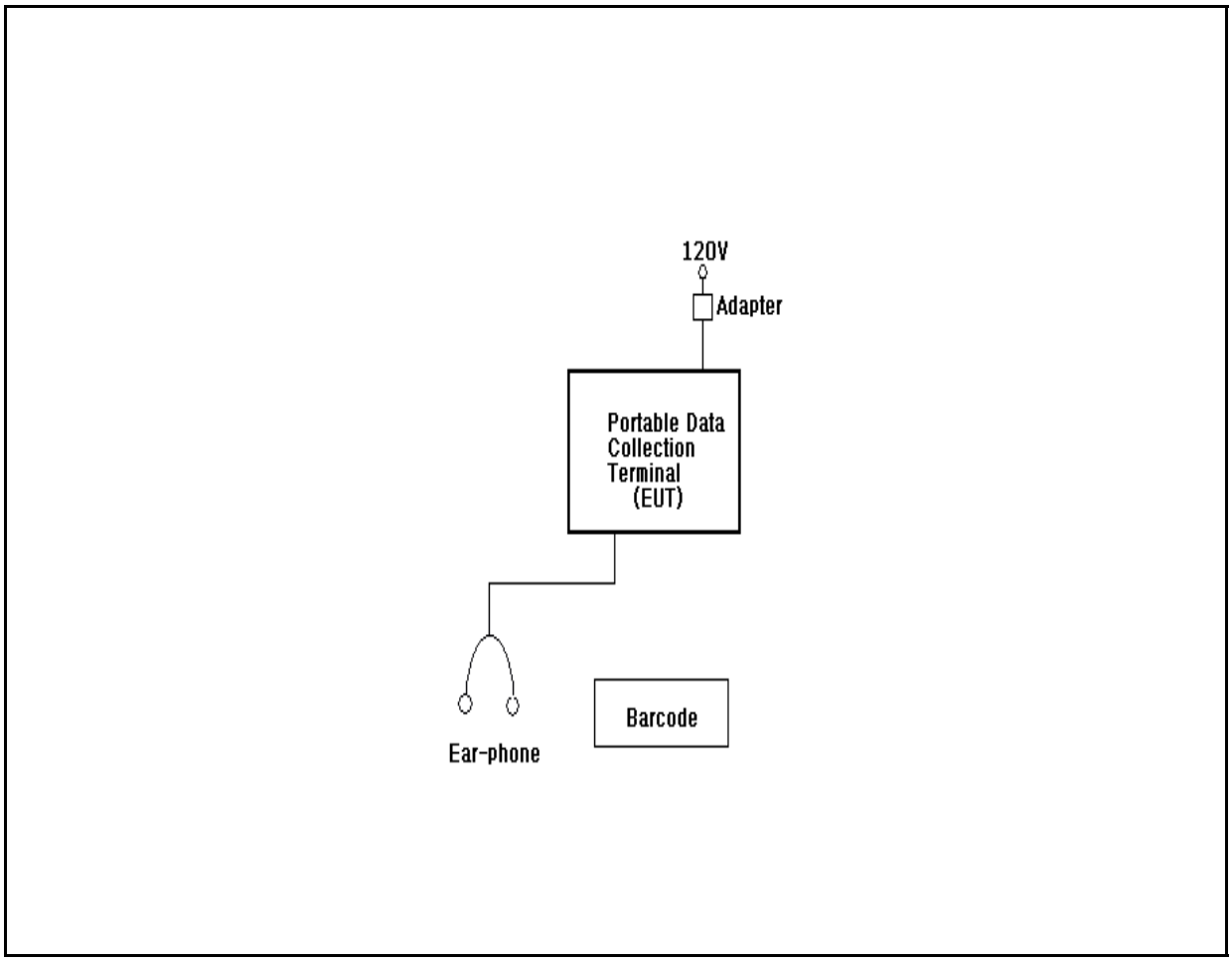


4. Measurement Condition(Test mode : SCANNER)

4.1 EUT Operation.

* The EUT was in the following operation mode during all testing
* The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected hightest level of emission.
* After seting as test arrangment diagram, we tested the EUT under continuous Scanning mode

4.2 Configuration and Peripherals

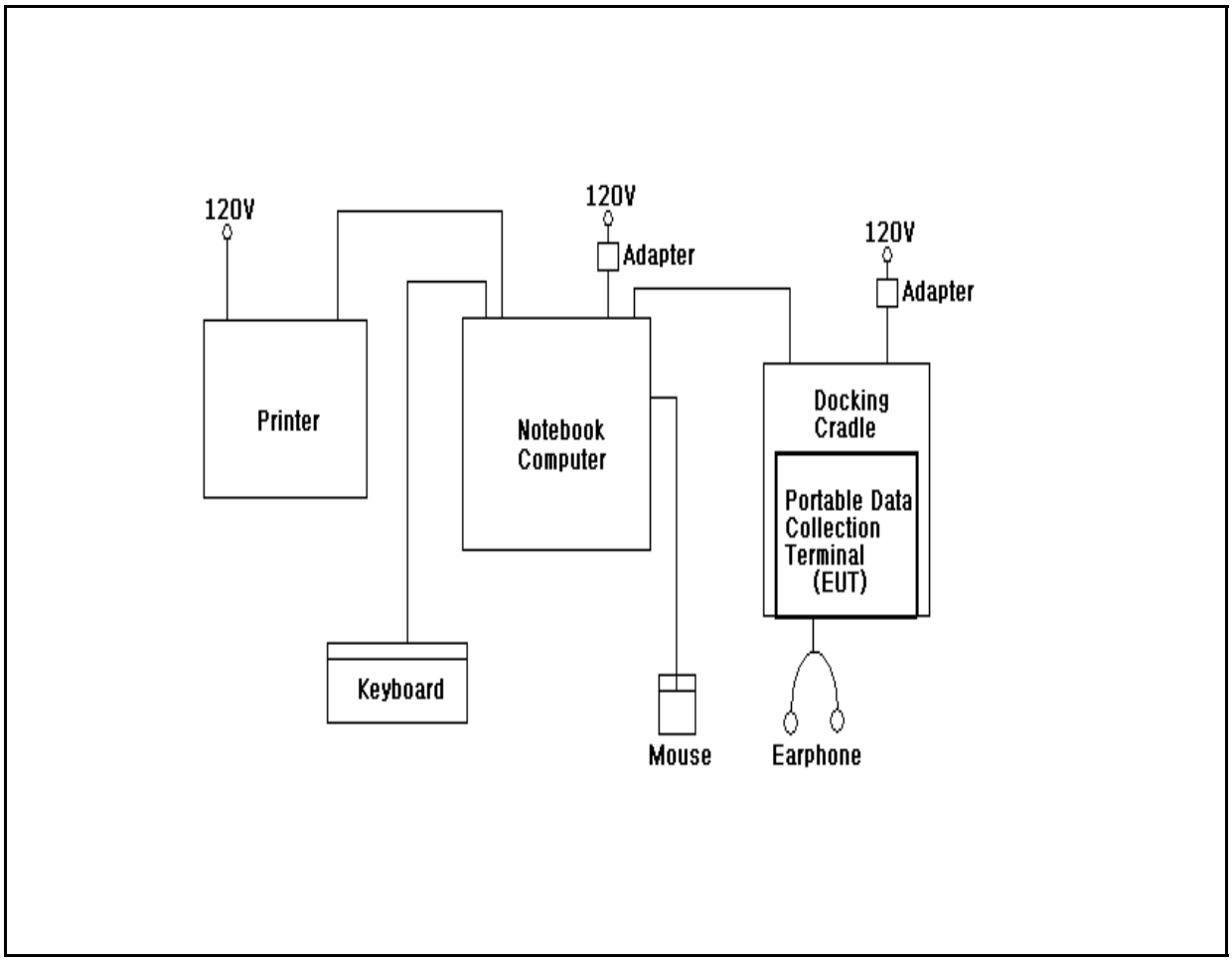


4. Measurement Condition(Test mode : PC Link)

4.1 EUT Operation.

* The EUT was in the following operation mode during all testing
* The operational conditions of the EUT was determined by the manufacturer according to the typical use of the EUT with respect to the expected hightest level of emission.
* After connect the EUT to Note PC,tested image data under reading/writting.

4.2 Configuration and Peripherals



4.3 EUT and Support equipment (Test mode : PDA)

Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
Portable Data Collection Terminal	MC-7500S	NONE	Mobile Compia Co., Ltd.	EUT
ADAPTER	PW118KA0500N66	07354A/RevB	AULT KOREA Co.,Ltd.	provied from manufacturer
EARPHONE	NONE	NONE	Mobile Compia Co., Ltd.	provied from manufacturer

4.4 Cable Connecting (Test mode : PDA)

Start Equipment		End Equipment		Cable Standard		Remark
Name	I/O port	Name	I/O port	Length	Shielded	
Portable Data Collection Terminal	24Pin Connector	Adapter	-	2	N	connected with Ferrite core Cable Type:18AWG
Portable Data Collection Terminal	Earphone	Ear-phone	-	1	N	-

4.3 EUT and Support equipment (Test mode : SCANNER)

Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
Portable Data Collection Terminal	MC-7500S	NONE	Mobile Compia Co., Ltd.	EUT (U7XMC-7500S)
ADAPTER	PW118KA0500N66	07354A/RevB	AULT KOREA Co.,Ltd.	provied from manufacturer
EARPHONE	NONE	NONE	Mobile Compia Co., Ltd.	provied from manufacturer

4.4 Cable Connecting (Test mode : SCANNER)

Start Equipment		End Equipment		Cable Standard		Remark
Name	I/O port	Name	I/O port	Length	Shielded	
Portable Data Collection Terminal	24Pin Connector	Adapter	-	2	N	connected with Ferrite core Cable Type:18AWG
Portable Data Collection Terminal	Earphone	Ear-phone	-	1	N	-

4.3 EUT and Support equipment (Test mode : PC Link)

Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
Portable Data Collection Terminal	MC-7500S	NONE	Mobile Compia Co., Ltd.	EUT (U7XMC-7500S)
ADAPTER	PW118KA0500N66	07354A/RevB	AULT KOREA Co.,Ltd.	provied from manufacturer
Notebook Computer	PP11L	48613-53E-1495	Dell Asia Pacific Sdn.	-
Adapter	PA-1650-05DK	71615-52P-0475	Dongguang Lite Power 2nd Plant	
Keyboard	SK-8115	71616-01K-19FM	YET FOUNDATE LTD	
Printer	LQ-570H+	B1021095782	Trigem Computer Inc	
Mouse	Wheel Mouse Optical	56180-576-2896557-6	Microsoft	
Earphone	NONE	NONE	Mobile Compia Co., Ltd.	provied from manufacturer
Docking Cradle	MC-6000SC	NONE	Mobile Compia Co., Ltd.	provied from manufacturer

4.4 Cable Connecting (Test mode : PC Link)

Start Equipment		End Equipment		Cable Standard		Remark
Name	I/O port	Name	I/O port	Length	Shielded	
Portable Data Collection Terminal	USB	Notebook Computer	USB	1.5	Y	connected with Ferrite core Cable Type:VW-1
Portable Data Collection Terminal	24Pin Connector	Adapter	-	2	N	connected with Ferrite core Cable Type:18AWG
Portable Data Collection Terminal	Earphone	Ear-phone	-	1	N	-
Notebook Computer	USB	Keyboard	USB	2	Y	connected with Ferrite core
Notebook Computer	USB	Mouse	USB	2	Y	connected with Ferrite core
Notebook Computer	POWER	Adapter	-	2	N	connected with Ferrite core
Notebook Computer	Parallel	Printer	Parallel	2	Y	

5. Measurement of radiated disturbance (Test mode : PDA)

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2007) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

5.1 Measurement equipments (Test mode : PDA)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESPC	Rohde & Schwarz	845296/021	2009. 1. 24
Spectrum Analyzer	R3261C	ADVANTEST	61720116	2008. 4. 20
LogBicon Antenna	VULB 9160	Schwarzbeck	3142	2008. 5. 07
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
Spectrum Analyzer	R3273	ADVANTEST	121200664	2008. 11. 27
Horn Antenna	BBHA 9120 D	S/B	469	2008. 07. 24
Amplifier	8447F	HP	2805A02972	2008. 6. 26
Turn Table	2087	EMCO	2129	-
Antenna Mast	2070-01	EMCO	9702-203	-
ANT Mast Controller	2090	EMCO	1535	-
Turn Table Controller	2090	EMCO	1535	-

5.2 Environmental Condition (Test mode : PDA)

Test Place : Open site(3m)
Temperature (°C) : 10 ℃
Humidity (%) : 41 %

5. Measurement of radiated disturbance (Test mode : SCANNER)

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2007) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

5.1 Measurement equipments (Test mode : SCANNER)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESPC	Rohde & Schwarz	845296/021	2009. 1. 24
Spectrum Analyzer	R3261C	ADVANTEST	61720116	2008. 4. 20
LogBicon Antenna	VULB 9160	Schwarzbeck	3142	2008. 5. 07
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
Spectrum Analyzer	R3273	ADVANTEST	121200664	2008. 11. 27
Horn Antenna	BBHA 9120 D	S/B	469	2008. 07. 24
Amplifier	8447F	HP	2805A02972	2008. 6. 26
Turn Table	2087	EMCO	2129	-
Antenna Mast	2070-01	EMCO	9702-203	-
ANT Mast Controller	2090	EMCO	1535	-
Turn Table Controller	2090	EMCO	1535	-

5.2 Environmental Condition (Test mode : SCANNER)

Test Place : Open site(3m)

Temperature (°C) : 5 ℃

Humidity (%) : 42 %

5. Measurement of radiated disturbance (Test mode : PC Link)

Above 30 MHz Electric Field strength was measured in accordance with FCC Part 15 (2007) & ANSI C 63.4 (2003). The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) on an open test site, which allows a 3m distance measurement. The EUT was placed in the center of wooden turntable. The height of this table was 0.8m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

5.1 Measurement equipments (Test mode : PC Link)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESPC	Rohde & Schwarz	845296/021	2009. 1. 24
Spectrum Analyzer	R3261C	ADVANTEST	61720116	2008. 4. 20
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
LogBicon Antenna	VULB 9160	Schwarzbeck	3142	2008. 5. 07
Spectrum Analyzer	R3273	ADVANTEST	121200664	2008. 11. 27
Horn Antenna	BBHA 9120 D	S/B	469	2008. 07. 24
PREAMPLIFIER	8449B	HP	3008A00581	2009-03-07
Amplifier	8447F	HP	2805A02972	2008. 6. 26
Turn Table	2087	EMCO	2129	-
Antenna Mast	2070-01	EMCO	9702-203	-
ANT Mast Controller	2090	EMCO	1535	-
Turn Table Controller	2090	EMCO	1535	-

5.2 Environmental Condition (Test mode : PC Link)

Test Place : Open site(3m)
Temperature (°C) : 7 ℃
Humidity (%) : 44 %

5.3 Test data (Test mode : PDA)

Test Date : 4-Mar-08 Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
56.17	14.60	V	1.0	11.94	0.8	40.0	27.36	-12.64
81.07	14.10	V	1.0	7.98	0.9	40.0	22.98	-17.02
110.02	10.90	V	1.0	10.26	1.3	43.5	22.46	-21.04
150.89	16.20	V	1.0	12.82	1.7	43.5	30.72	-12.78
161.89	12.10	H	1.6	12.74	1.7	43.5	26.56	-16.94
180.14	8.90	V	1.0	11.26	1.9	43.5	22.06	-21.44
200.19	13.90	H	1.3	9.62	2.2	43.5	25.72	-17.78
220.00	14.60	H	1.2	10.37	2.3	46.0	27.27	-18.73
262.00	17.20	H	1.1	11.90	2.6	46.0	31.74	-14.26
287.52	20.60	H	1.1	12.71	2.9	46.0	36.19	-9.81
348.17	14.10	H	1.0	14.19	3.3	46.0	31.63	-14.37
416.01	9.60	H	1.0	15.75	3.8	46.0	29.13	-16.87
550.00	10.10	H	1.0	18.30	4.8	46.0	33.15	-12.85
703.74	7.20	H	1.0	20.68	5.6	46.0	33.49	-12.51
960.01	5.90	H	1.0	24.11	6.6	54.0	36.61	-17.39

Remark	H : Horizontal, V : Vertical *Checked in all 3 axis and the maximum measured data were reported. *There was no detected radiated emission above 1GHz *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz) *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz. *The resolution bandwidth and video bandwidth of spectrum analyzer is 1MHz and10Hz above 1GHz.

5.3 Test data (Test mode : SCANNER)

Test Date : 4-Mar-08 Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
56.17	14.70	V	1.0	11.94	0.8	40.0	27.46	-12.54
82.05	16.90	V	1.0	7.98	0.9	40.0	25.78	-14.22
110.62	12.40	V	1.0	10.31	1.3	43.5	24.02	-19.48
150.00	11.40	H	1.8	12.81	1.7	43.5	25.91	-17.59
156.74	17.20	V	1.0	12.86	1.7	43.5	31.76	-11.74
167.16	14.30	H	1.7	12.31	1.8	43.5	28.38	-15.12
180.00	16.20	H	1.6	11.27	1.9	43.5	29.37	-14.13
222.62	13.20	H	1.5	10.47	2.3	46.0	26.00	-20.00
262.00	14.40	V	1.0	11.90	2.6	46.0	28.94	-17.06
300.00	13.20	V	1.0	13.11	3.0	46.0	29.31	-16.69
336.00	17.20	H	1.0	13.92	3.3	46.0	34.38	-11.62
416.00	12.20	H	1.0	15.75	3.8	46.0	31.73	-14.27
550.00	9.40	H	1.0	18.30	4.8	46.0	32.45	-13.55

Remark	H : Horizontal, V : Vertical *Checked in all 3 axis and the maximum measured data were reported. *There was no detected radiated emission above 1GHz *CL = Cable Loss-Amplifier Gain(In case of above1000Mhz) *CL = Cable Loss(In case of below1000Mhz) *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz. *The resolution bandwidth and video bandwidth of spectrum analyzer is 1MHz and10Hz above 1GHz.

5.3 Test data (Test mode : PC Link)

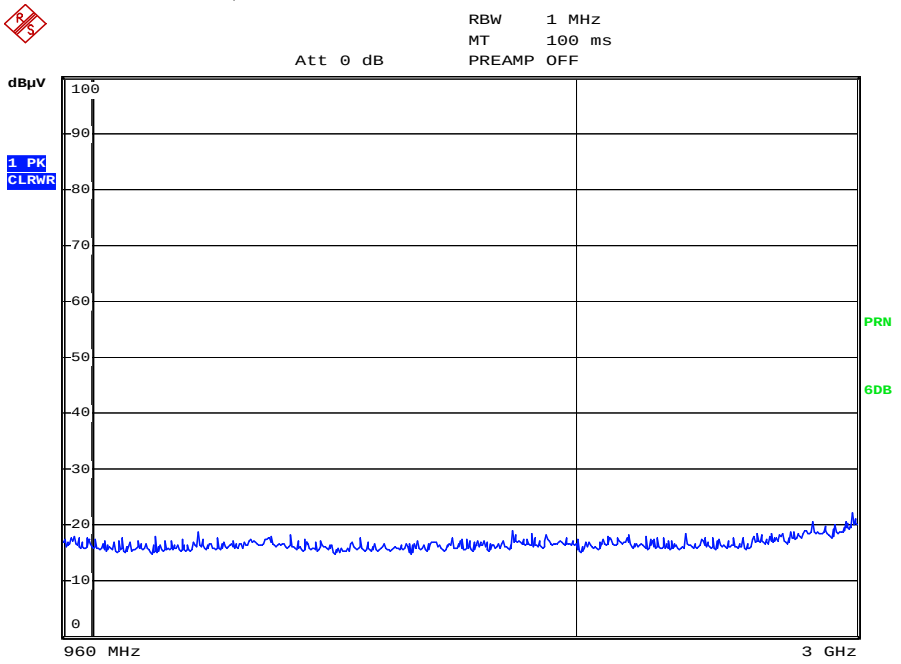
Test Date : 4-Mar-08 Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
56.14	16.90	V	1.0	11.94	0.8	40.0	29.66	-10.34
80.69	19.20	V	1.0	7.98	0.9	40.0	28.08	-11.92
108.82	19.90	V	1.0	10.15	1.3	43.5	31.34	-12.16
132.00	20.10	V	1.0	12.11	1.4	43.5	33.63	-9.87
166.02	18.80	H	1.9	12.40	1.8	43.5	32.96	-10.54
198.91	20.10	H	1.4	9.70	2.2	43.5	31.98	-11.52
200.00	16.20	H	1.3	9.61	2.2	43.5	28.01	-15.49
220.00	18.80	V	1.0	10.37	2.3	46.0	31.47	-14.53
240.06	17.20	V	1.0	11.14	2.6	46.0	30.94	-15.06
266.14	20.10	H	1.2	12.03	2.7	46.0	34.86	-11.14
300.00	14.60	H	1.0	13.11	3.0	46.0	30.71	-15.29
312.64	13.70	H	1.0	13.39	3.1	46.0	30.16	-15.84
360.07	12.10	H	1.0	14.45	3.4	46.0	29.95	-16.05
480.00	11.20	H	1.0	16.98	4.1	46.0	32.28	-13.72
540.06	18.20	H	1.0	18.05	4.7	46.0	40.95	-5.05
620.14	12.10	H	1.0	19.88	5.2	46.0	37.18	-8.82
700.00	7.40	H	1.0	20.57	5.6	46.0	33.57	-12.43
800.00	9.20	H	1.0	22.15	6.2	46.0	37.55	-8.45
916.06	6.40	H	1.0	23.46	6.6	46.0	36.44	-9.56

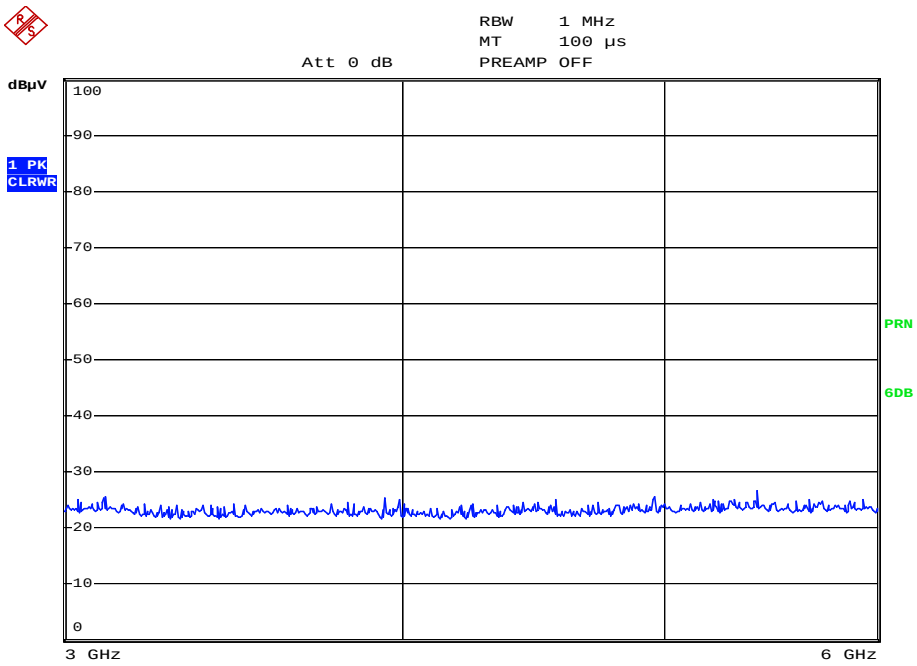
Remark

H : Horizontal, V : Vertical
*Checked in all 3 axis and the maximum measured data were reported.
*There was no detected radiated emission above 1GHz
*CL = Cable Loss-Amplifier Gain(In case of above1000Mhz)
*CL = Cable Loss(In case of below1000Mhz)
*The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120KHz for Quasi-peak detection at frequency below 1GHz.
*The resolution bandwidth and video bandwidth of spectrum analyzer is 1MHz and10Hz above 1GHz.

5.3 Test Graph (above 1GHz)



Comment: MC-7500S
Date: 12.JUN.2008 11:26:28



Comment: MC-7500S
Date: 12.JUN.2008 11:27:01

Note:There was no detected radiated emission above 1GHz

6. Measurement of conducted disturbance (Test mode : PDA)

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2007) & ANSI C 63.4 (2003) The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) in a shielded Room. The EUT was placed on a non-conductive table at least 80 above the ground plan. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0m.. The test receiver with Quasi Peak detector complies with CISPR 16.

6.1 Measurement equipments (Test mode : PDA)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
LISN	ESH3-Z5	Schwarzbeck	838979/010	2009. 2. 29
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
Pulse Limiter	ESH3Z2	Rohde & Schwarz	NONE	-

6.2 Environmental Condition (Test mode : PDA)

Test Place : Shielded Room
Temperature (°C) : 19 ℃
Humidity (%) : 41 %

6. Measurement of conducted disturbance (Test mode : SCANNER)

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2007) & ANSI C 63.4 (2003) The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) in a shielded Room. The EUT was placed on a non-conductive table at least 80 above the ground plan. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0m.. The test receiver with Quasi Peak detector complies with CISPR 16.

6.1 Measurement equipments (Test mode : SCANNER)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
LISN	ESH3-Z5	Schwarzbeck	838979/010	2009. 2. 29
LISN	ESH3-Z5	Schwarzbeck	838979/010	2009. 2. 29
TEST Receive	ESP17	Rohde & Schwarz	100185	2008. 8. 24
Pulse Limiter	ESH3Z2	Rohde & Schwarz	NONE	-

6.2 Environmental Condition (Test mode : SCANNER)

Test Place : Shielded Room
Temperature (°C) : 19 ℃
Humidity (%) : 42 %

6. Measurement of conducted disturbance (Test mode : PC Link)

The continuous disturbance voltage of AC Mains in the frequency from 0.15 to 30 MHz was measured in accordance to FCC Part 15 (2007) & ANSI C 63.4 (2003) The test setup was made according to FCC Part 15 (2007) & ANSI C 63.4 (2003) in a shielded Room. The EUT was placed on a non-conductive table at least 80 above the ground plan. A grounded vertical reference plane was positioned in a distance of 40cm from the EUT. The distance from the EUT to other metal surfaces was at least 0.8m. The EUT was only earthen by its power cord through the line impedance stabilizing network. The power cord has been bundled to a length of 1.0m.. The test receiver with Quasi Peak detector complies with CISPR 16.

6.1 Measurement equipments (Test mode : PC Link)

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
LISN	ESH3-Z5	Schwarzbeck	838979/010	2009. 2. 29
LISN	NNLA8120A	Schwarzbeck	8120161	2009. 2. 29
TEST Receiver	ESPI7	Rohde & Schwarz	100185	2008. 8. 27
Pulse Limiter	ESH3Z2	Rohde & Schwarz	NONE	-

6.2 Environmental Condition (Test mode : PC Link)

Test Place : Shielded Room
Temperature (°C) : 19 ℃
Humidity (%) : 39 %

6.3 Test data (Test mode : PDA)

Test Date : 5-Mar-08

Frequency (MHz)	Correction Factor		Line (H/N)	Quasi-peak Value			Average Value		
	Lisn (dB)	Cable (dB)		Limit (dBμV)	Reading (dBμV)	Result (dBμV)	Limit (dBμV)	Reading (dBμV)	Result (dB)
0.15	0.15	0.8	N	65.78	38.26	39.17	55.78	21.45	22.36
0.18	0.16	0.8	N	64.44	33.63	34.57	54.44	30.09	31.03
0.20	0.17	0.8	H	63.57	49.33	50.29	53.57	23.98	24.94
0.27	0.20	0.9	N	61.18	41.78	42.83	51.18	36.62	37.67
0.33	0.21	0.9	N	59.40	36.42	37.49	49.40	32.51	33.58
0.40	0.20	0.8	N	57.79	34.35	35.38	47.79	30.90	31.93
0.54	0.20	0.8	N	56.00	36.27	37.25	46.00	33.52	34.50
0.60	0.20	0.8	H	56.00	35.11	36.10	46.00	32.38	33.37
0.67	0.20	0.8	N	56.00	35.28	36.28	46.00	32.93	33.93
1.07	0.18	0.8	N	56.00	32.68	33.66	46.00	29.62	30.60
1.14	0.19	0.8	N	56.00	31.90	32.88	46.00	29.05	30.03
3.61	0.28	0.9	N	56.00	33.17	34.36	46.00	31.85	33.04
5.42	0.36	1.0	N	60.00	30.43	31.78	50.00	29.18	30.53
7.56	0.48	1.1	N	60.00	30.24	31.87	50.00	27.93	29.56
7.83	0.49	1.2	H	60.00	28.62	30.28	50.00	27.90	29.56
8.03	0.49	1.2	H	60.00	28.60	30.28	50.00	26.43	28.11
19.55	0.83	1.5	H	60.00	31.04	33.34	50.00	30.06	32.36
24.36	0.90	2.0	H	60.00	30.43	33.31	50.00	28.20	31.08
Remark	H : Hot Line, N : Neutral Line								

6.3 Test data (Test mode : SCANNER)

Test Date : 5-Mar-08

Frequency (MHz)	Correction Factor		Line (H/N)	Quasi-peak Value			Average Value		
	Lisn (dB)	Cable (dB)		Limit (dBμV)	Reading (dBμV)	Result (dBμV)	Limit (dBμV)	Reading (dBμV)	Result (dB)
0.15	0.15	0.8	H	65.89	33.29	34.19	55.89	20.43	21.33
0.20	0.17	0.8	H	63.57	46.11	47.07	53.57	32.91	33.87
0.27	0.20	0.9	H	61.21	41.05	42.10	51.21	30.81	31.86
0.33	0.21	0.9	N	59.40	33.43	34.50	49.40	29.77	30.84
0.40	0.21	0.8	H	57.85	26.07	27.11	47.85	18.66	19.70
0.47	0.20	0.8	N	56.57	32.06	33.06	46.57	28.97	29.97
0.54	0.20	0.8	N	56.00	33.34	34.32	46.00	30.22	31.20
0.60	0.20	0.8	H	56.00	34.34	35.33	46.00	30.87	31.86
0.67	0.20	0.8	N	56.00	29.06	30.06	46.00	26.74	27.74
0.93	0.19	0.8	N	56.00	28.39	29.38	46.00	23.82	24.81
2.47	0.25	0.9	N	56.00	28.68	29.78	46.00	24.48	25.58
4.34	0.31	0.9	N	56.00	29.54	30.78	46.00	28.49	29.73
5.88	0.40	1.0	H	60.00	17.69	19.10	50.00	13.73	15.14
6.28	0.43	1.0	N	60.00	23.28	24.75	50.00	22.93	24.40
6.95	0.48	1.1	H	60.00	18.30	19.86	50.00	16.64	18.20
7.02	0.48	1.1	H	60.00	18.93	20.50	50.00	15.56	17.13
7.68	0.48	1.2	N	60.00	22.02	23.66	50.00	18.57	20.21
8.15	0.49	1.2	N	60.00	19.25	20.94	50.00	16.17	17.86
Remark	H : Hot Line, N : Neutral Line								

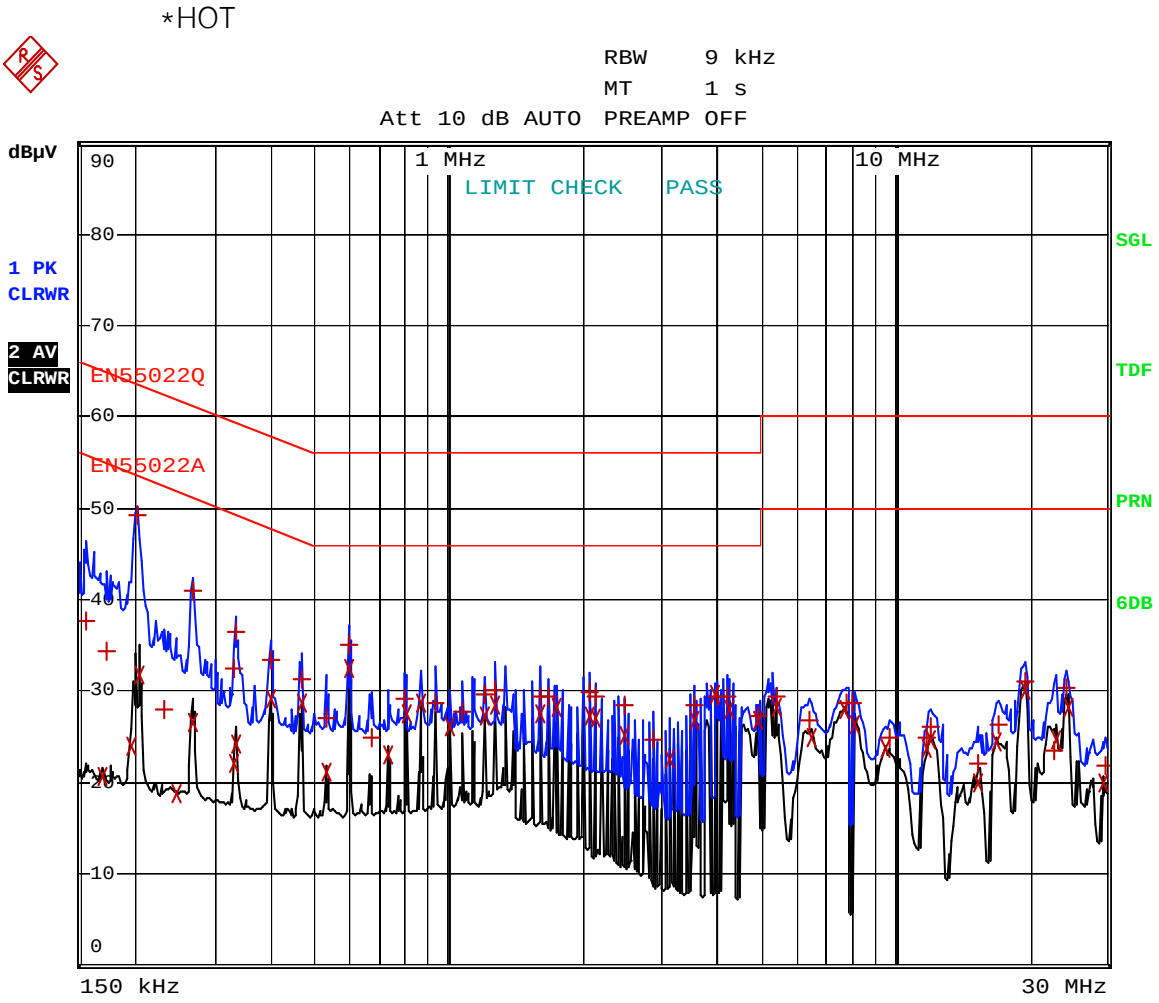
6.3 Test data (Test mode : PC Link)

Test Date : 5-Mar-08

Frequency (MHz)	Correction Factor		Line (H/N)	Quasi-peak Value			Average Value		
	Lisn (dB)	Cable (dB)		Limit (dBμV)	Reading (dBμV)	Result (dBμV)	Limit (dBμV)	Reading (dBμV)	Result (dB)
0.20	0.17	0.8	N	63.57	43.79	44.75	53.57	34.03	34.99
0.27	0.20	0.9	N	61.21	40.73	41.78	51.21	33.64	34.69
0.33	0.21	0.9	N	59.40	35.78	36.85	49.40	29.46	30.53
0.40	0.20	0.8	N	57.83	33.21	34.24	47.83	27.25	28.28
0.47	0.20	0.8	H	56.55	29.12	30.12	46.55	25.17	26.17
0.60	0.20	0.8	H	56.00	37.67	38.66	46.00	32.67	33.66
1.47	0.20	0.8	N	56.00	30.33	31.35	46.00	25.99	27.01
2.41	0.24	0.9	H	56.00	31.04	32.14	46.00	27.52	28.62
2.47	0.25	0.9	H	56.00	30.87	31.97	46.00	25.59	26.69
3.54	0.28	0.9	H	56.00	28.40	29.58	46.00	25.88	27.06
4.75	0.32	0.9	H	56.00	28.45	29.72	46.00	16.32	17.59
14.97	0.74	1.3	H	60.00	33.29	35.28	50.00	23.32	25.31
21.47	0.86	1.7	H	60.00	36.45	38.97	50.00	30.08	32.60
21.55	0.86	1.7	N	60.00	34.06	36.58	50.00	27.69	30.21
24.00	0.90	1.9	H	60.00	36.73	39.56	50.00	34.44	37.27
27.00	0.94	2.3	N	60.00	33.20	36.45	50.00	24.69	27.94
27.11	0.94	2.3	H	60.00	34.03	37.29	50.00	25.41	28.67
Remark	H : Hot Line, N : Neutral Line								

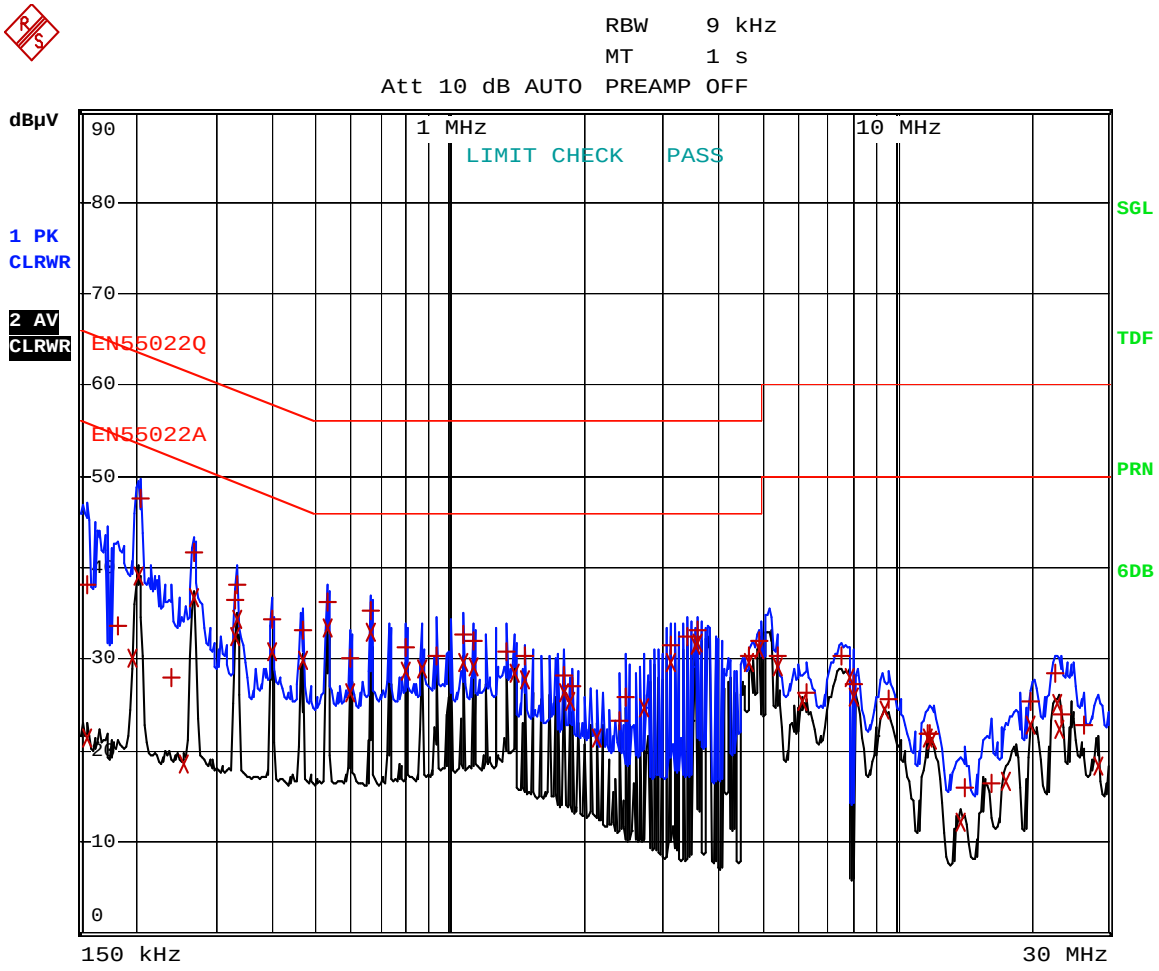
Appendix 1. Spectral diagram (Test mode : PDA)

*HOT



Comment: MC-7500S ADAPTER MODE HOT
Date: 4.MAR.2008 10:10:50

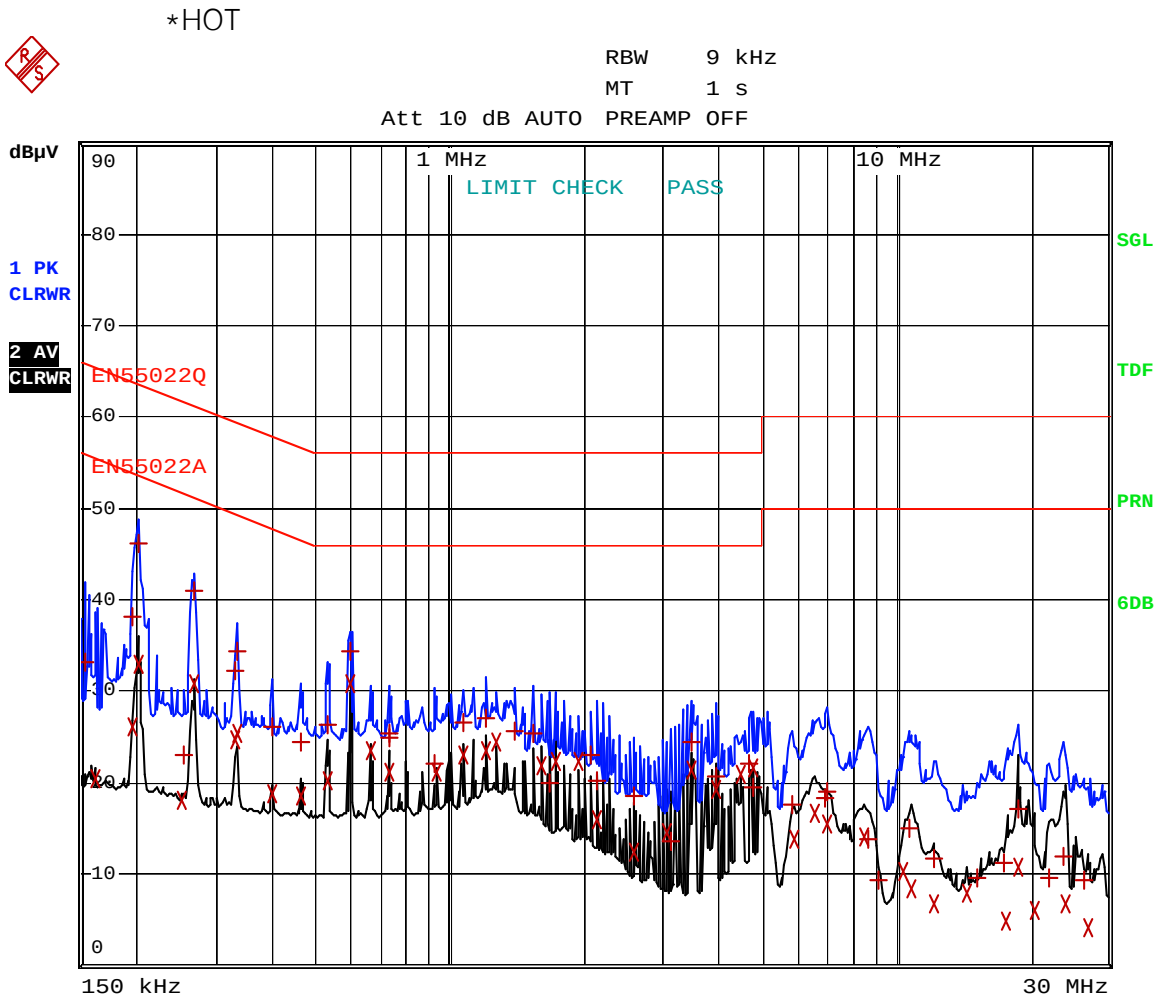
*NEUTRAL



Comment: MC-7500S ADAPTER MODE NEUTRAL
Date: 4.MAR.2008 10:05:03

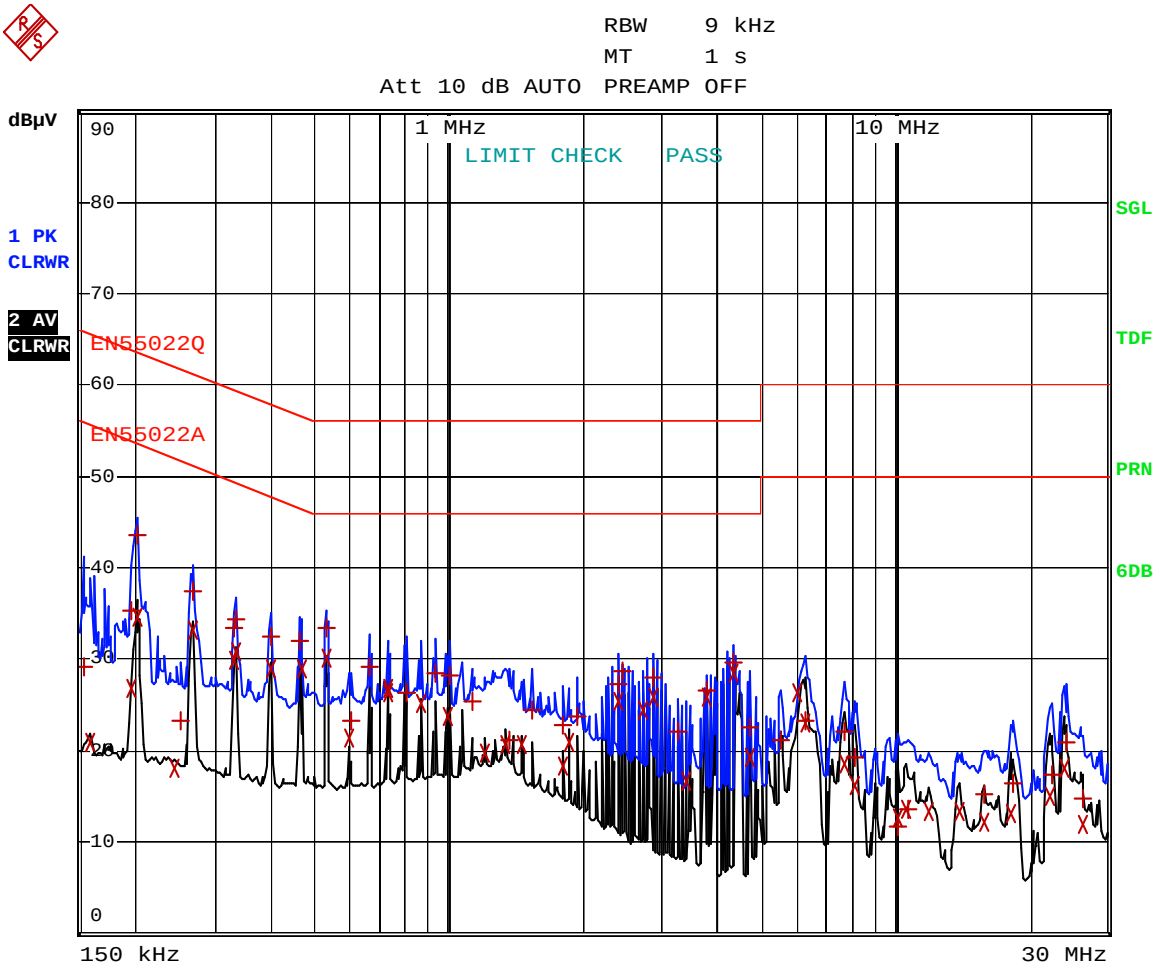
Appendix 1. Spectral diagram (Test mode : SCANNER)

*HOT



Comment: MC-7500S SCANNER HOT
Date: 4.MAR.2008 16:44:06

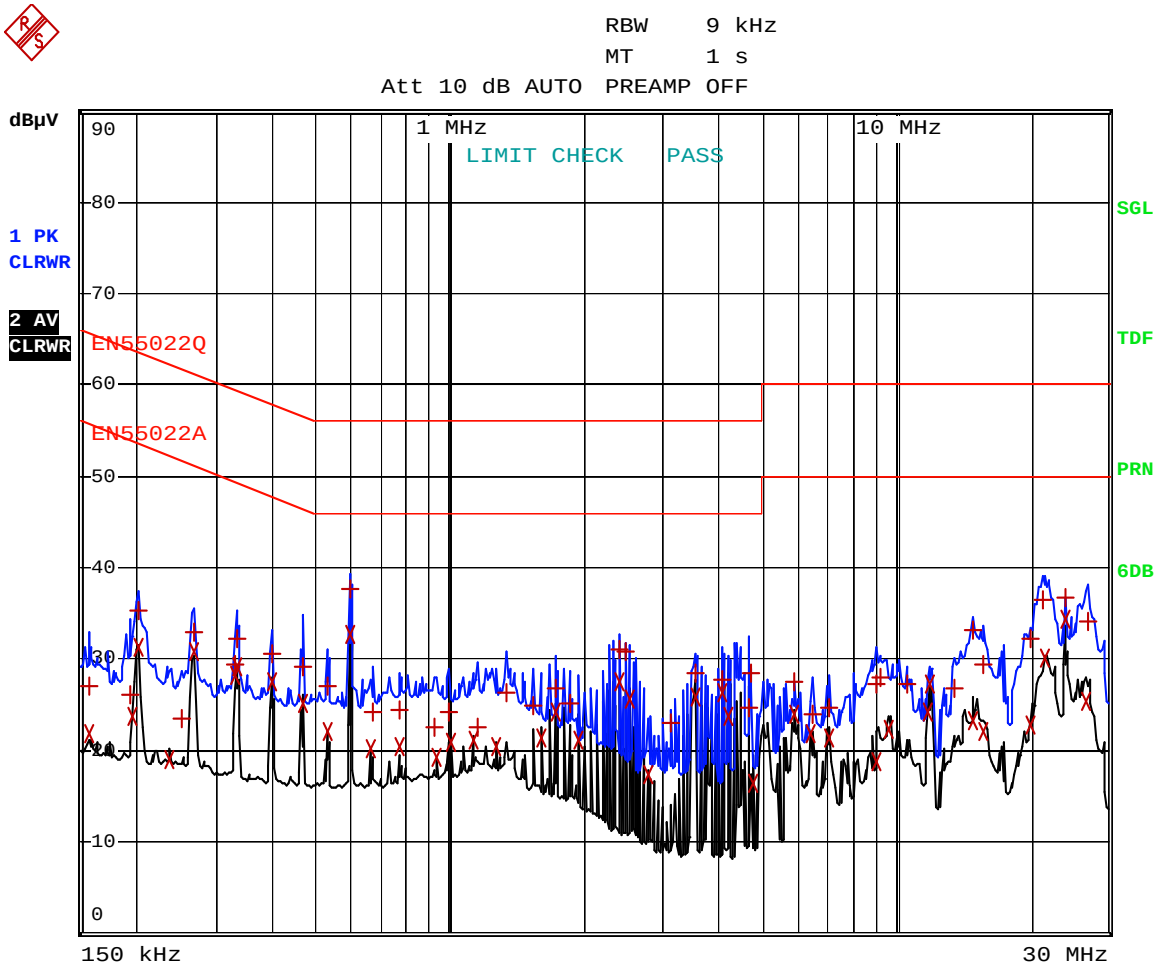
*NEUTRAL



Comment: MC-7500S SCANNER NEUTRAL
Date: 4.MAR.2008 16:39:19

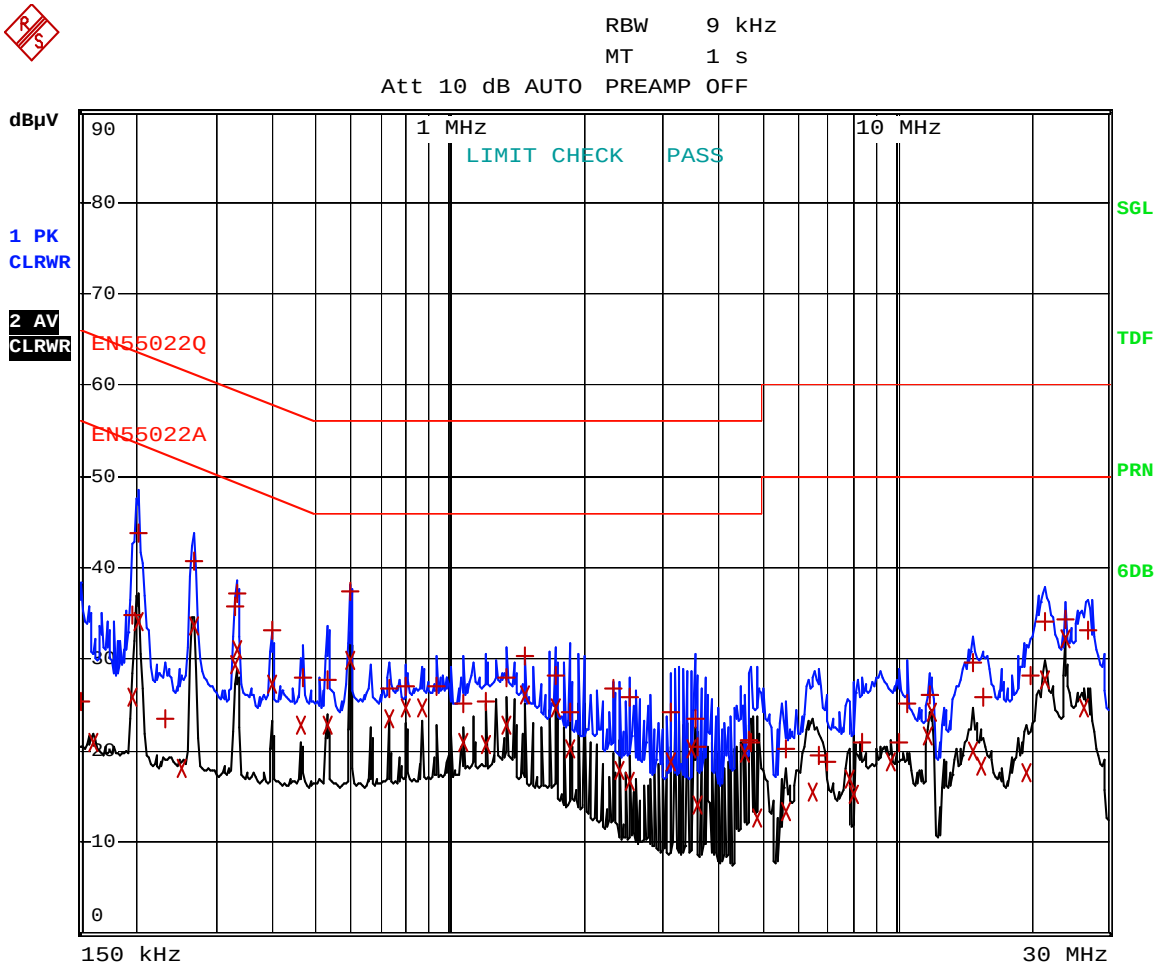
Appendix 1. Spectral diagram (Test mode : PC Link)

*HOT



Comment: MC-7500S PC MODE HOT
Date: 4.MAR.2008 14:19:52

*NEUTRAL



Comment: MC-7500S PC MODE MEUTRAL
Date: 4.MAR.2008 14:12:54