

APPLICATION FOR CERTIFICATION

On Behalf of

SHENZHEN JIEHE TECHNOLOGY DEVELOPMENT Co., Ltd

Mini PC

Model Number: Giada Slim-i20-PD

FCC ID: YIKI20PD

Prepared for : SHENZHEN JIEHE TECHNOLOGY DEVELOPMENT
Co., Ltd
2/F, Block A, Tsinghua Information Harbor, North Section,
Shenzhen Hi-tech Park, Nanshan District, Shenzhen, China
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Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F10158

Date of Test : Jun.12~18, 2010

Date of Report : Jul.16, 2010

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results.....	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test configuration with EUT	2-2
2.1. Tested Supporting System Details	2-2
2.2. Test Facility	2-6
2.3. Test Uncertainty (95% confidence levels, k=2)	2-6
3. POWER LINE CONDUCTED EMISSION TEST	3-1
3.1. Test Equipments	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test	3-2
3.5. Operating Condition of EUT	3-2
3.6. Test Procedure	3-2
3.7. Power Line Conducted Emission Test Results.....	3-2
4. RADIATED EMISSION TEST	4-1
4.1. Test Equipment	4-1
4.2. Block Diagram of Test Setup	4-2
4.3. Radiated Emission Limit	4-3
4.4. EUT Configuration on Test.....	4-3
4.5. Operating Condition of EUT	4-3
4.6. Test Procedure	4-4
4.7. Radiated Emission Test Results	4-4
5. DEVIATION TO TEST SPECIFICATIONS	5-1
6. PHOTOGRAPH OF TEST	6-1
6.1. Photos of Power Line Conducted Emission Test	6-1
6.2. Photos of Radiated Emission Test (In Anechoic Chamber)	6-2
7. PHOTOGRAPH OF EUT	7-1

TEST REPORT CERTIFICATION

Applicant : SHENZHEN JIEHE TECHNOLOGY DEVELOPMENT Co., Ltd
Manufacturer : CHEER ASCENT electronics Co., Ltd
EUT Description : Mini PC
FCC ID : YIKI20PD
(A)MODEL NO. : Giada Slim-i20-PD
(B)SERIAL NO. : N/A
(C)POWER SUPPLY : DC 19V From Adapter
(D)TEST VOLTAGE : DC 19V From Adapter Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2008, ANSI C63.4-2009

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits for radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Jun.12~18, 2010

Prepared by :

Annie Wu / Senior Assistant

Reviewer :

Jamy Yu / Supervisor

Approved & Authorized Signer :

Ken Lu / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15: 2008 ANSI C63.4: 2009	Class B	PASS
Radiated Emission Test	FCC Part 15: 2008 ANSI C63.4: 2009	Class B	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name : Mini PC (Note)

Model Number : Giada Slim-i20-PD

FCC ID : YIKI20PD

Applicant : SHENZHEN JIEHE TECHNOLOGY DEVELOPMENT Co.,
Ltd
2/F, Block A, Tsinghua Information Harbor, North Section,
Shenzhen Hi-tech Park, Nanshan District, Shenzhen, China
P.R

Manufacturer : CHEER ASCENT Electronics Co., Ltd
Block 1, Fuhai Industrial Park, Fuyong town, Baoan District,
Shenzhen, China P.R

Date of Test : Jun.12~18, 2010

Date of Receipt : Jun.07, 2010

Sample Type : Series production

Note: This EUT is Class B Mini PC, for test purpose, a typical Class B personal computer was configured by applicant with this EUT.

2.2. Test configuration with EUT

Category	Vendor and Model
demansion	192 * 154.5 * 26.3 mm
CPU	Intel® Atom® Processor D510
Chipset	Intel® NM10
GPU	Intel® GMA 3150
RAM(optional)	2G DDR2
HDD(optional)	320G
LAN	Gigabit
WIFI	Wireless LAN 802.11b/g/n
USB Port	X4
Display output	1*VGA, 1*HDMI
Esata	X1
Card reader	4 in 1
Audio output	L/R Channel

A special PC test software “BurnInTest.exe” was used to exercise all functions of PC (full efficiency running of CPU, read and write data from Hard disk, output “H” character, all output and input port of EUT were also exercised by typical accessories)

2.1. Tested Supporting System Details

2.1.1. MONITOR #1

EMC CODE : ACS-EMC-LM07R
 M/N : 3008WFPt
 S/N : CN-0RW915-71618-846-397L
 Manufacturer : DELL
 Data Cable (VGA) : Shielded, Detachable, 2.0m
 Power Cord : Unshielded, Detachable, 1.8m
 FCC ID : By DoC

2.1.2. MONITOR #2

EMC CODE : ACS-EMC-LM04R
 M/N : 1907FPt
 S/N : CN-009759-71618-6AP-ACPP
 Manufacturer : DELL
 Data Cable (HDMI) : Shielded, Detachable, 2.0m
 Power Cord : Unshielded, Detachable, 1.8m
 FCC ID : By DoC
 BSMI ID : R3A002

2.1.3. USB Keyboard

EMC CODE	:	ACS-EMC-K01R
M/N	:	SK-8115
S/N	:	CN-ODJ313-71616-711-0J73
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachabled, 2.0m
FCC ID	:	By DoC
BSMI ID	:	T3A002

2.1.4. USB MOUSE

EMC CODE	:	ACS-EMC-M01R
M/N	:	M056UO
S/N	:	512022645
Manufacturer	:	Dell
Data Cable	:	Shielded, Undetachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R41108

2.1.5. MICROPHONE

EMC CODE	:	ACS-EMC-MIC01
M/N	:	SM-300
Manufacturer	:	SONCN
Data Cable	:	Shielded, Undetachabled, 1.7m

2.1.6. HEADPHONE

EMC CODE	:	ACS-EMC-EP01
M/N	:	OV880V
Manufacturer	:	OVANN
Data Cable	:	Shielded, Undetachabled, 1.2m

2.1.7. E-SATA

EMC CODE	:	ACS-EMC-HDD11(eSATA)
M/N	:	9NL7A6-510
S/N	:	9QM3Q574
Manufacturer	:	Seagate
Data Cable	:	Unshielded, Detachabled, 1.5*2m ,0.5m
FCC ID	:	By DoC
BSMI ID	:	D33027

2.1.8. iPod #1

EMC CODE	:	ACS-EMC-IP01
M/N	:	A1199
S/N	:	YM706MLDVQ5
Manufacturer	:	APPLE
Data Cable	:	Shielded, Detachable, 1.0m
FCC ID	:	By DoC
BSMI ID	:	R33057

2.1.9. iPod #2

EMC CODE	:	ACS-EMC-IP02
M/N	:	A1199
S/N	:	YM706MCQVQ5
Manufacturer	:	APPLE
Data Cable	:	Shielded, Detachable, 1.0m
FCC ID	:	By DoC
BSMI ID	:	R33057

【HUB SYSTEM & PARTNER PC SYSTEM】**- Used for At Shielded Room and Semi-Anechoic Chamber**

2.1.10.HUB (10/100/1000 FAST ETHERNET SWITCH)

EMC CODE	:	ACS-EMC-DL01
M/N	:	DGS-1008D
Manufacturer	:	D-Link
S/N	:	B2C6468500622
Data Cable	:	Shielded, Detachable, 1.8m
Adaptor (RL48-07V51000)	:	Unshielded, detachable, 1.0m
FCC ID	:	By DoC

2.1.11.EXCHANGE

EMC CODE	:	EMC2.017B
M/N	:	CD8000
S/N	:	X4Y740Y3T388N9X
Manufacturer	:	CHAN DE
Data Cable	:	Unshielded, Undetachable, 10m

2.1.12.PC

M/N	:	DELL 490
S/N	:	2Q5932X
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachabled,1.8m

2.1.13.17"COLOR MONITOR

M/N	:	E772F
S/N	:	CN-02W486-64180-3CE-00L9
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachabled,1.8m
VGA Cable	:	Shielded, Detachabled,1.8m

2.1.14.KEYBOARD

M/N	:	SK-8115
S/N	:	CN-ODJ313-71616-711-04WJ
Manufacturer	:	DELL
Data Cable	:	Unshielded, Undetachabled,2.0m

2.1.15.MOUSE

M/N	:	M056UO
S/N	:	512024282
Manufacturer	:	DELL
Data Cable	:	Unshielded, Undetachabled,1.8m

2.2. Test Facility

Site Description	
Name of Firm	: Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	: Mar. 31, 2009 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	: Dec. 30, 2009 File on Federal Communication Commission Registration Number: 794232
EMC Lab.	: Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr.01, 2010

2.3. Test Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 2 Conduction	3.22dB
Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m)	3.46dB (30~200MHz, Polarize: H)
	3.72dB (30~200MHz, Polarize: V)
	3.74dB (200M~1GHz, Polarize: H)
	3.72dB (200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz)	3.12 dB (Distance: 3m Polarize: V)
	3.74 dB (Distance: 3m Polarize: H)
Uncertainty for SVSWR in 10m Chamber	2.42 dB (Distance: 3m Polarize: V)
	2.44 dB (Distance: 3m Polarize: H)
Uncertainty for test site temperature and humidity	0.3°C
	2%

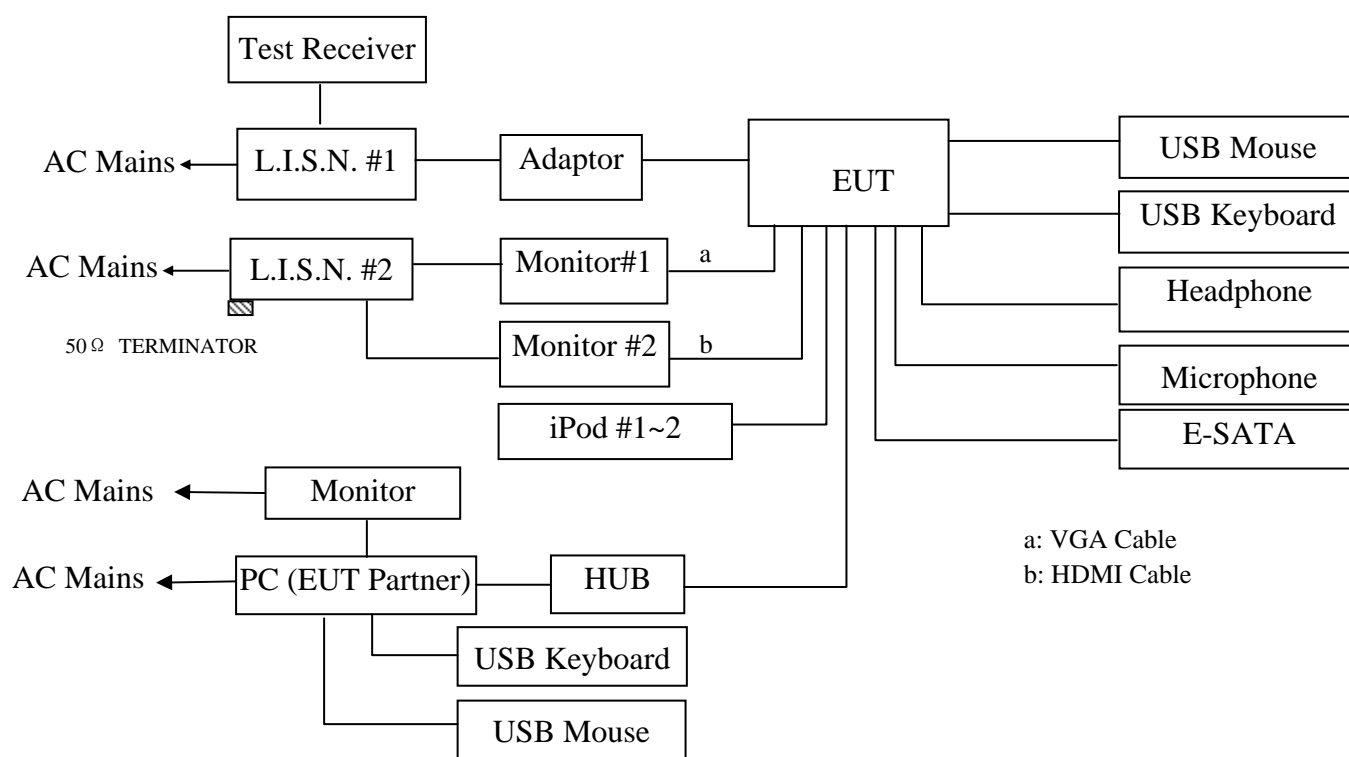
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100843	Mar.30, 10	1 Year
2	L.I.S.N.#1	Rohde & Schwarz	ENV4200	100041	May.08, 10	1 Year
3	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	May.08, 10	1 Year
4	Terminator	Hubersuhner	50Ω	No. 2	May.08, 10	1 Year
5	RF Cable	Fujikura	3D-2W	LISN Cable 2#	May.08, 10	1 Year
6	Coaxial Switch	Anritsu	MP59B	6200298346	May.08, 10	1 Year
7	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	May.08, 10	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and Supporting System



(EUT: Mini PC)

3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Mini PC (EUT)

Model Number : Giada Slim-i20-PD
Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software “BurnInTest.exe” to exercise all functions of EUT

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.,

3.7. Power Line Conducted Emission Test Results

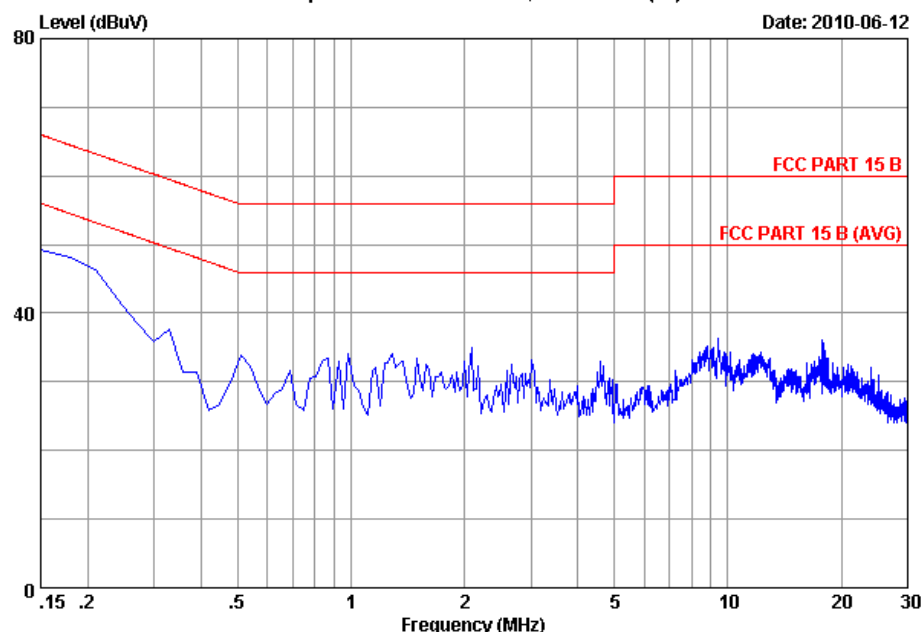
PASS. (All emissions not reported below are too low against the prescribed limits.)



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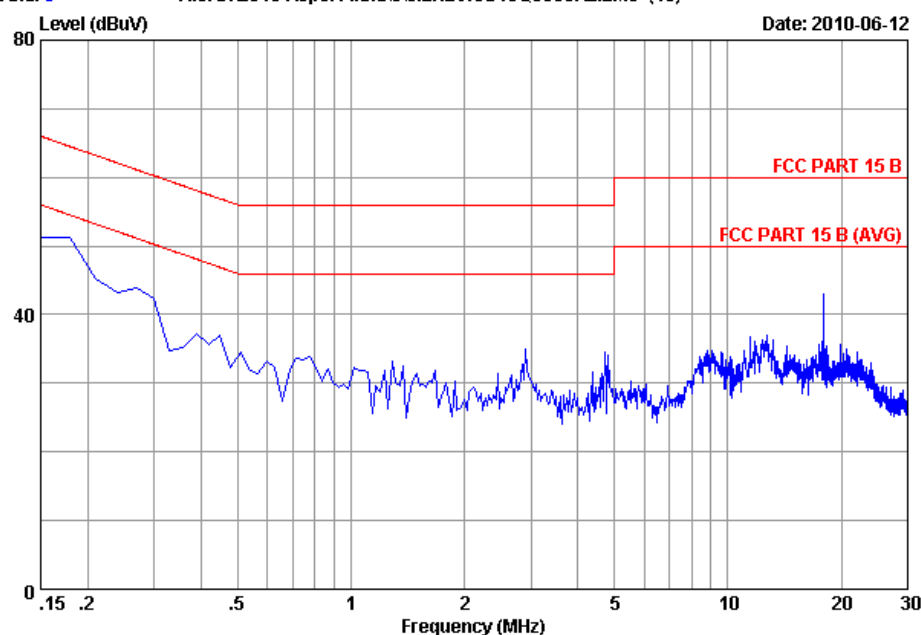
Date: 2010-06-12



Site no :Audix No.2 Conduction Data No :7
Dis./Ant. **: 2010 ENV4200 LISN phase:LINE
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:640*480@60Hz

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Date: 2010-06-12



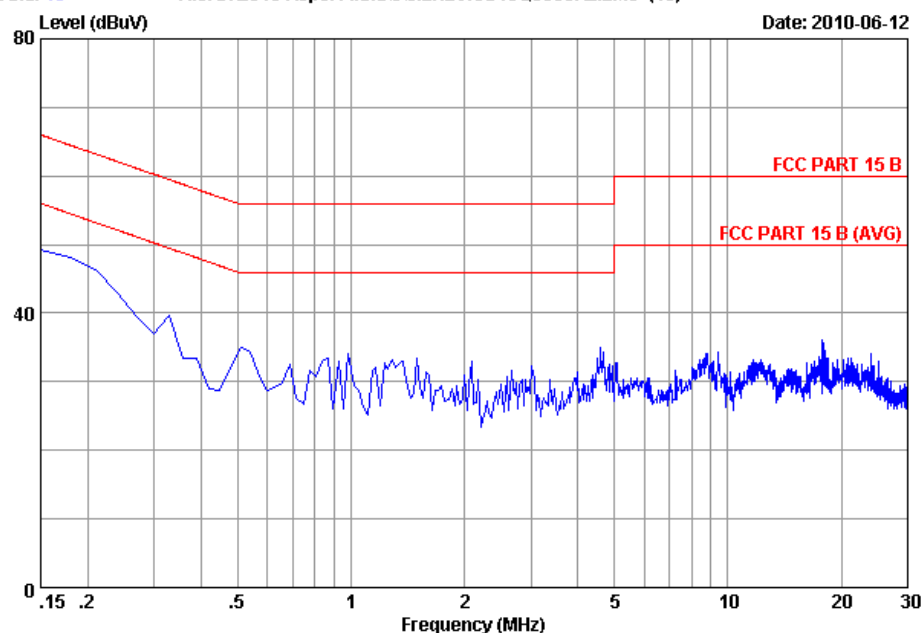
Site no :Audix No.2 Conduction Data No :8
Dis./Ant. **: 2010 ENV4200 LISN phase:NEUTRAL
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:640*480@60Hz



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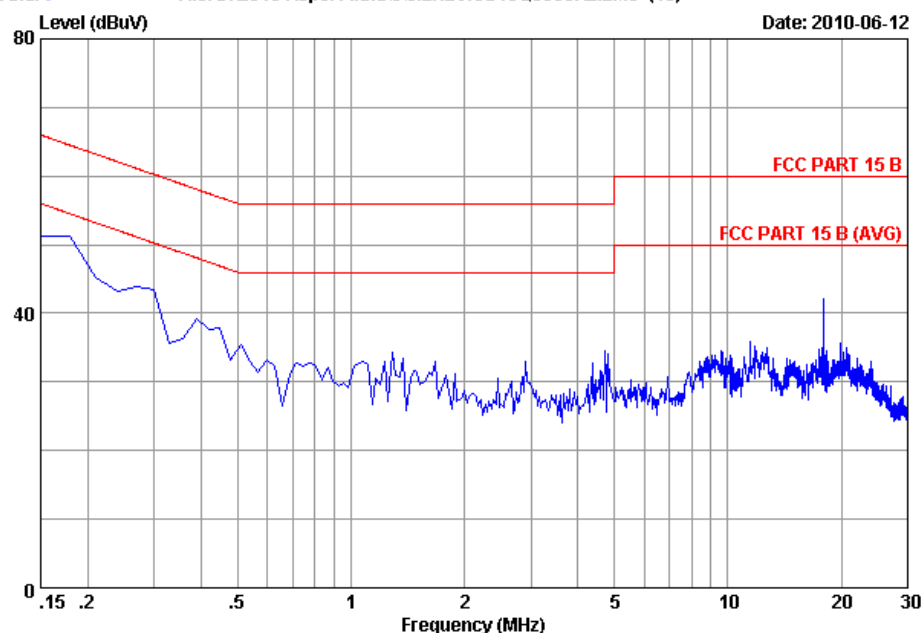
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Site no :Audix No.2 Conduction Data No :10
Dis./Ant. :** 2010 ENV4200 LISN phase:LINE
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:1024*768@70Hz

Data: 9 File: D:\2010 Report data\JJIEHE\ACS10Q0886R2.EM6 (45)

Date: 2010-06-12



Site no :Audix No.2 Conduction Data No :9
Dis./Ant. :** 2010 ENV4200 LISN phase:NEUTRAL
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:1024*768@70Hz

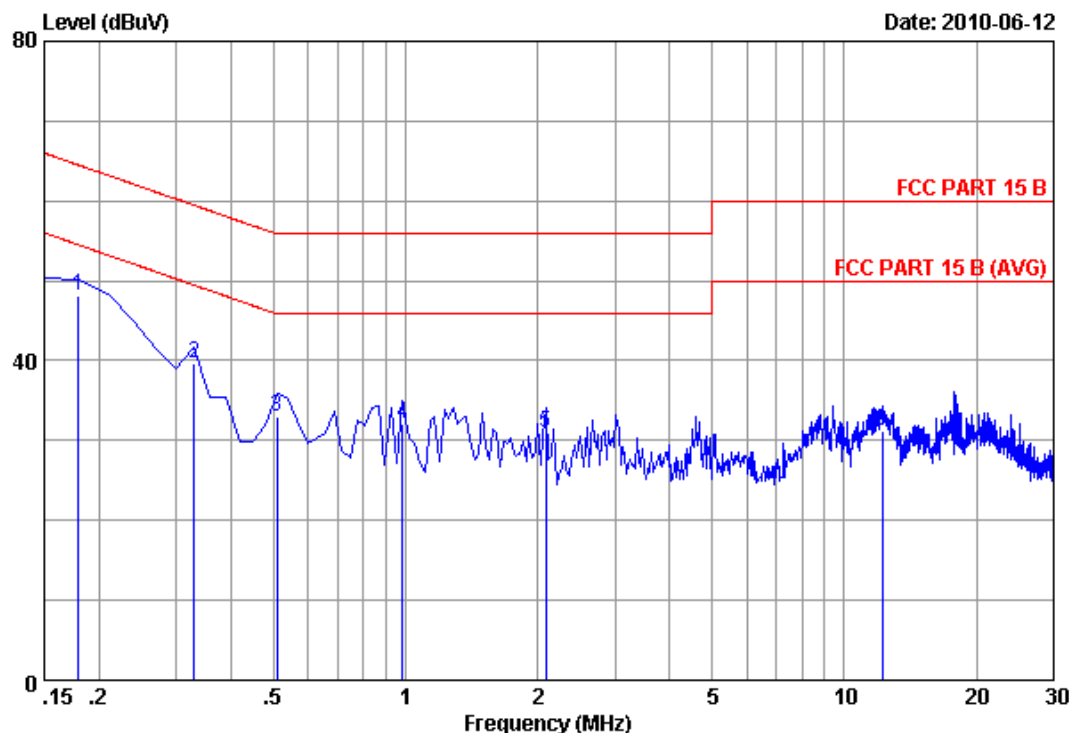


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Postcode:518057

Data: 12

File: D:\2010 Report data\J\JIEHE\ACS10Q0886R2.EM6 (45)

Date: 2010-06-12



Site no :Audix No.2 Conduction Data No :12
Dis./Ant. :** 2010 ENV4200 LISN phase:LINE
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:1366*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	10.13	9.87	28.14	48.14	64.49	16.35	QP
2	0.32910	10.16	9.88	19.54	39.58	59.47	19.89	QP
3	0.50820	10.18	9.88	12.88	32.94	56.00	23.06	QP
4	0.98580	10.19	9.89	11.95	32.03	56.00	23.97	QP
5	2.090	10.20	9.94	10.91	31.05	56.00	24.95	QP
6	12.180	10.39	10.31	10.60	31.30	60.00	28.70	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

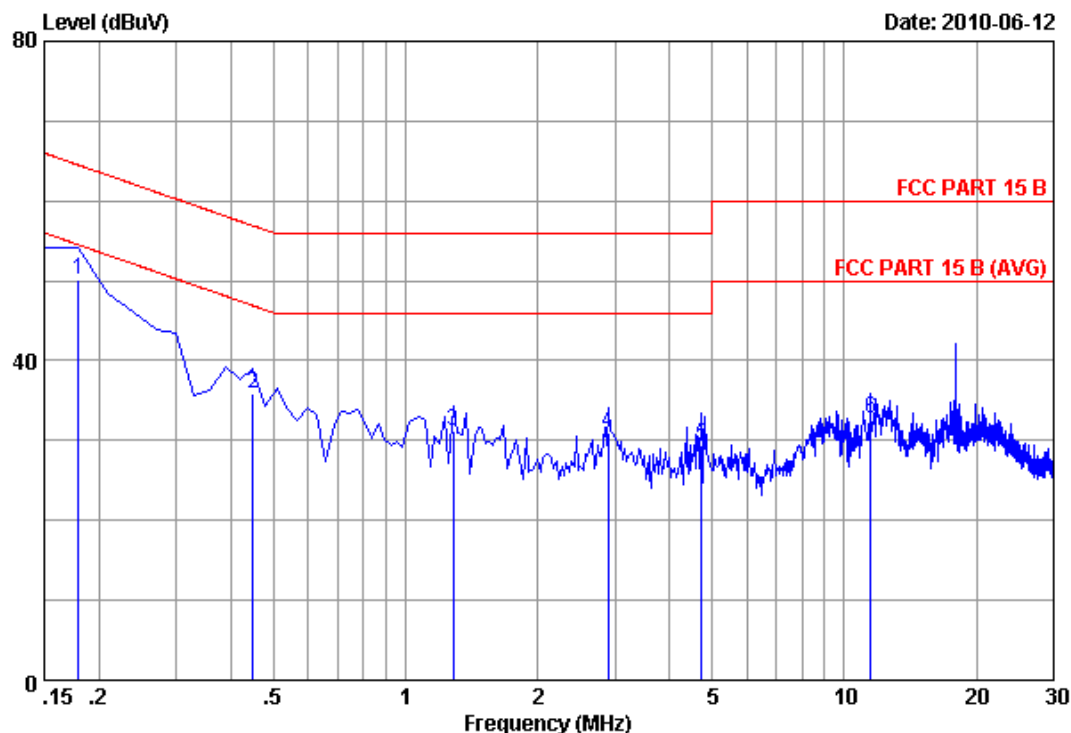


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Data: 11

File: D:\2010 Report data\J\JIEHE\ACS10Q0886R2.EM6 (45)

Date: 2010-06-12



Site no :Audix No.2 Conduction Data No :11
Dis./Ant. :** 2010 ENV4200 LISN phase:NEUTRAL
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% Engineer :Restar
EUT :Mini PC M/N:Giada Slim-i20-PD
Power Rating :AC 120V/60Hz
Test Mode :Running Burnin Test V5.3
VGA+HDMI:1366*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	10.19	9.87	30.15	50.21	64.49	14.28	QP
2	0.44850	10.19	9.88	15.88	35.95	56.90	20.95	QP
3	1.284	10.26	9.91	11.10	31.27	56.00	24.73	QP
4	2.896	10.29	9.96	10.79	31.04	56.00	24.96	QP
5	4.717	10.27	9.99	9.19	29.45	56.00	26.55	QP
6	11.463	10.42	10.27	12.14	32.83	60.00	27.17	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

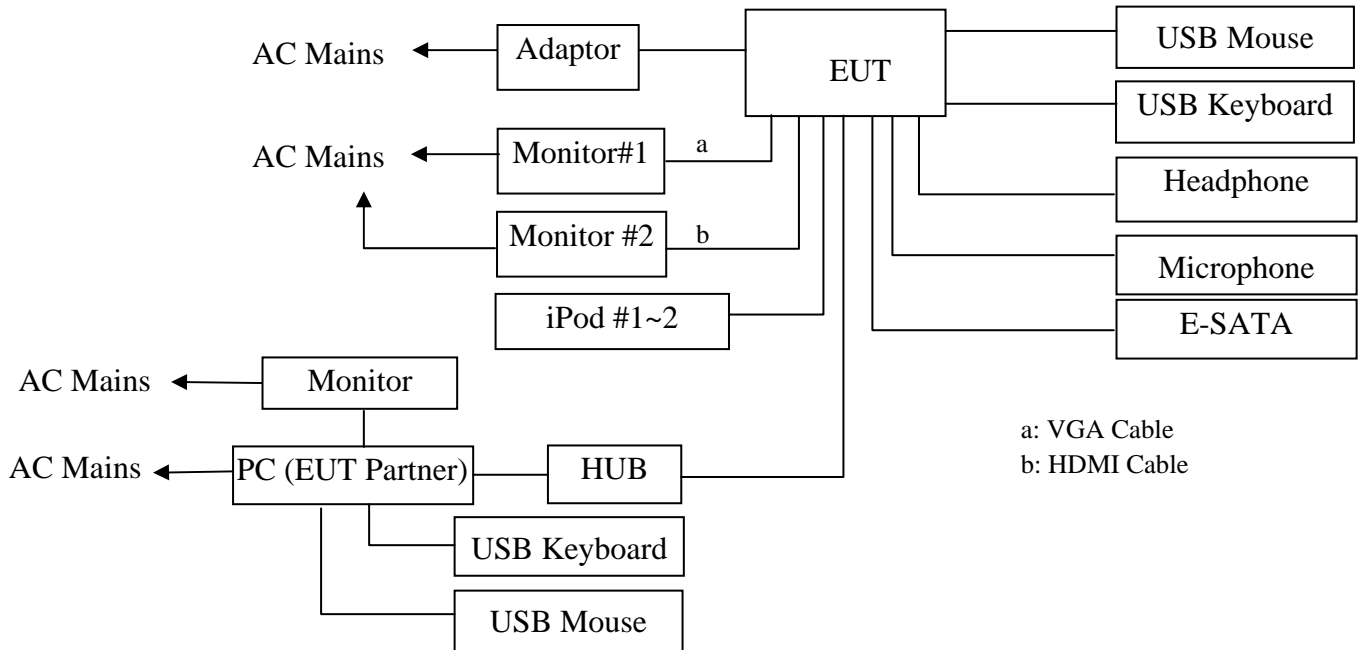
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	10m Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMC Analyzer	Agilent	E7405A	MY42000131	May.08, 10	1 Year
3	EMC Analyzer	Agilent	E7405A	MY45116588	May.08, 10	1 Year
4	Test Receiver	Rohde & Schwarz	ESCI	100842	May.08, 10	1 Year
5	Amplifier	Agilent	8447D	2944A10684	May.08, 10	1 Year
6	Amplifier	Agilent	8447D	2944A11140	May.08, 10	1 Year
7	Bilog Antenna	Schaffner	CBL6112D	25238	Mar.27, 10	1 Year
8	Bilog Antenna	Schaffner	CBL6112D	25237	Mar.27, 10	1 Year
9	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.1	May.08, 10	1 Year
10	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.2	May.08, 10	1 Year
11	Coaxial Switch	Anritsu	MP59B	6200766906	May.08, 10	1 Year
12	Coaxial Switch	Anritsu	MP59B	6200766905	May.08, 10	1 Year
13	Coaxial Switch	Anritsu	MP59B	6200313662	May.08, 10	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	Nov.19, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1 Year
7	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08, 10	1 Year

4.2.Block Diagram of Test Setup

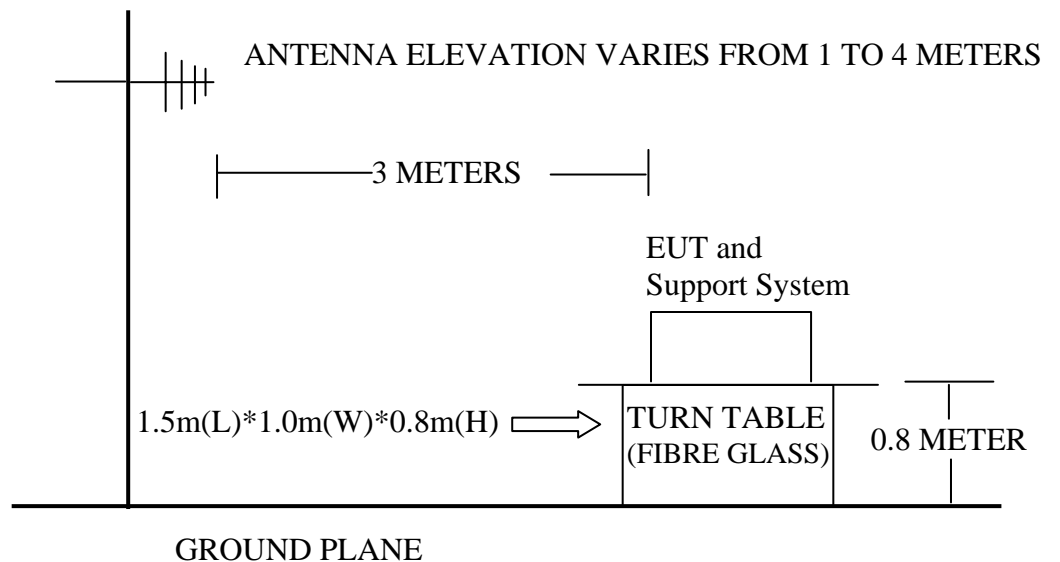
4.2.1.Block Diagram of connection between EUT and simulators



(EUT: Mini PC)

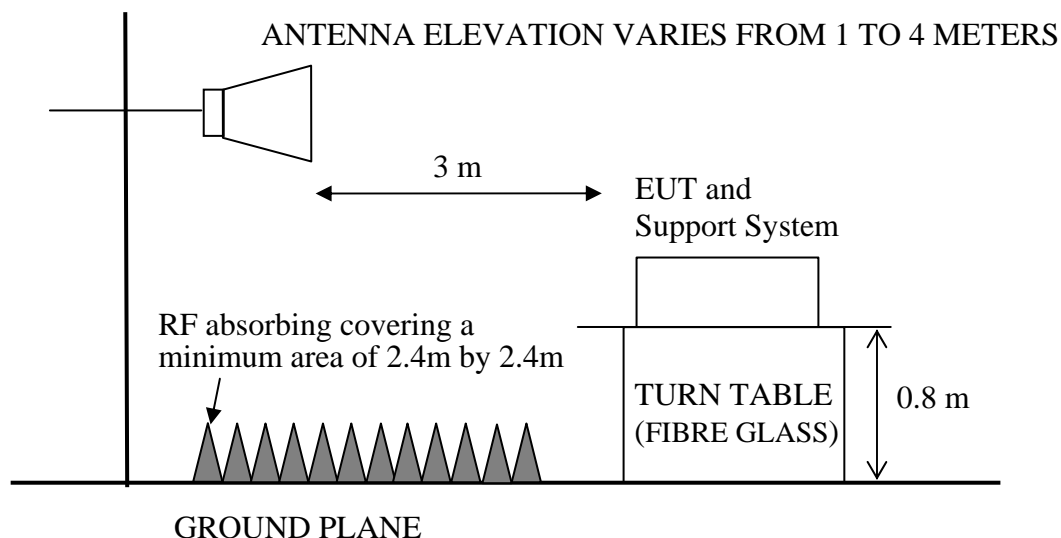
4.2.2.Anechoic Chamber Setup Diagram for frequency range from 30MHz to 1000 MHz.

ANTENNA TOWER



for frequency range from 1GHz to 18GHz.

ANTENNA TOWER



4.3. Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	3	74(Peak)54(Average)

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Mini PC (EUT)

Model Number : Giada Slim-i20-PD
Serial Number : N/A

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2..

4.5.2. Turned on the power of all equipment.

4.5.3. PC run test software “BurnInTest.exe” to exercise all functions of EUT

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

4.7. Radiated Emission Test Results

PASS.

Test Frequency: 30MHz-1000MHz

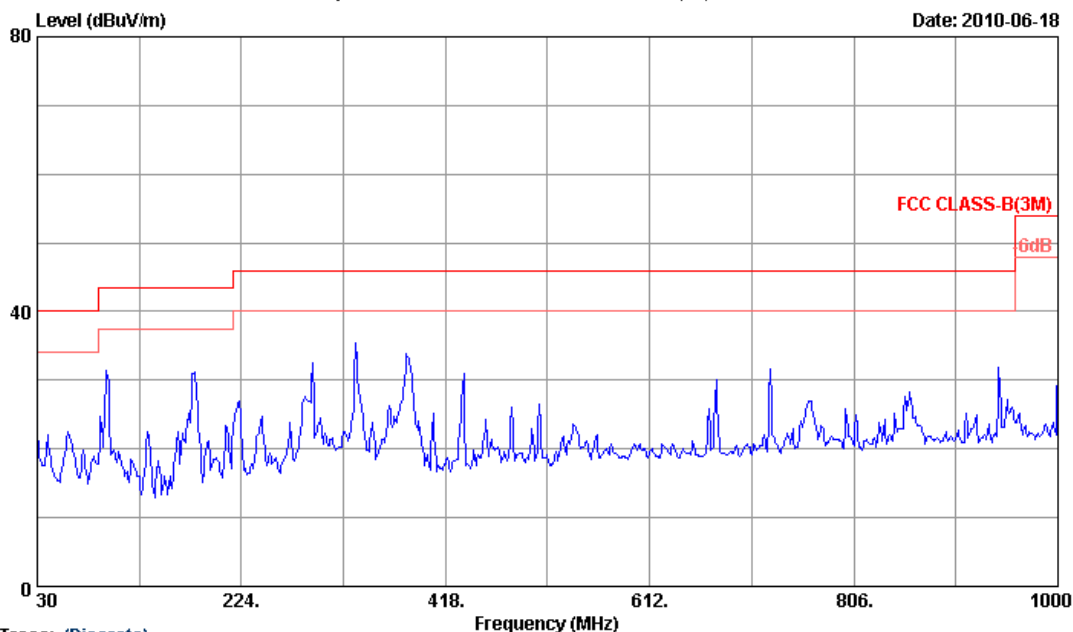


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Data: 24

File: D:\2010 Report Data\JJIEHE\ACS10Q0886R2.EM6 (60)

Date: 2010-06-18



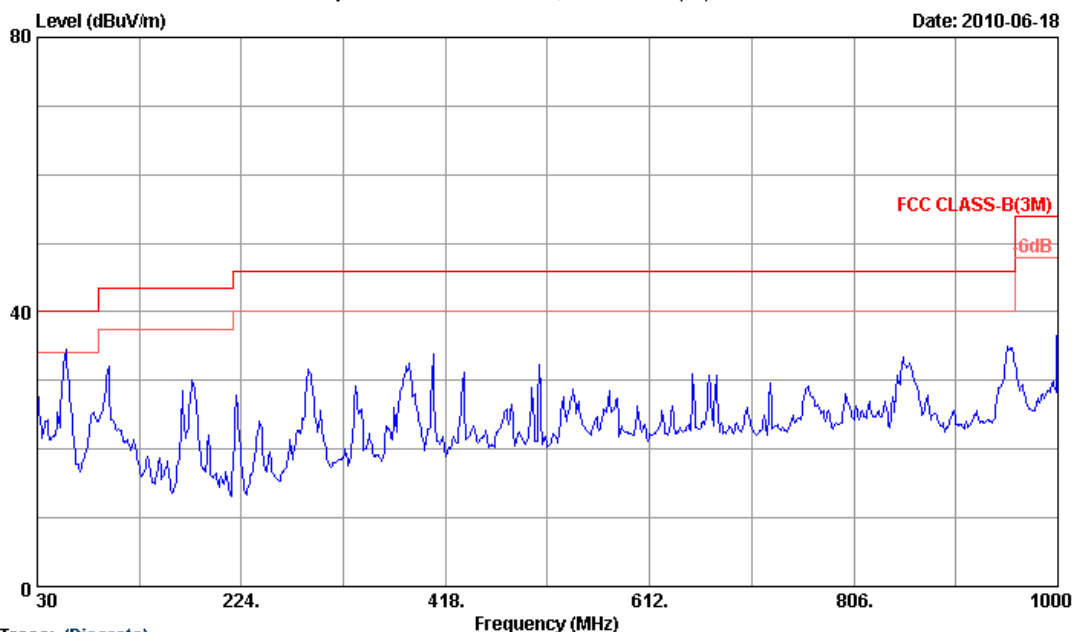
Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 24
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:640*480@60Hz

Data: 23

File: D:\2010 Report Data\JJIEHE\ACS10Q0886R2.EM6 (60)

Date: 2010-06-18



Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 23
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : VERTICAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:640*480@60Hz

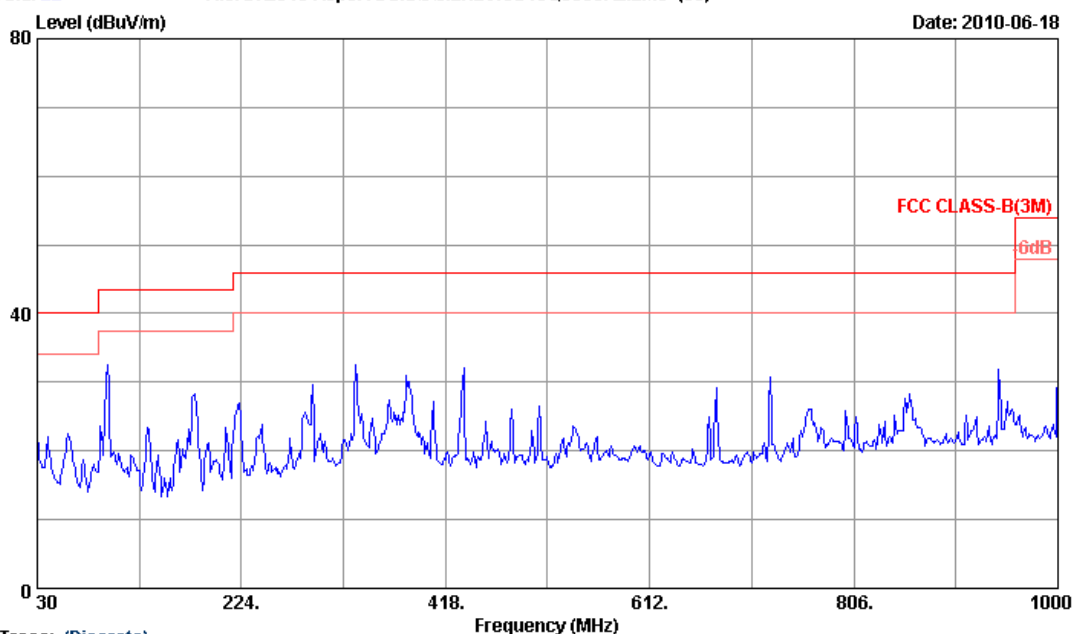


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Data: 22

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Date: 2010-06-18



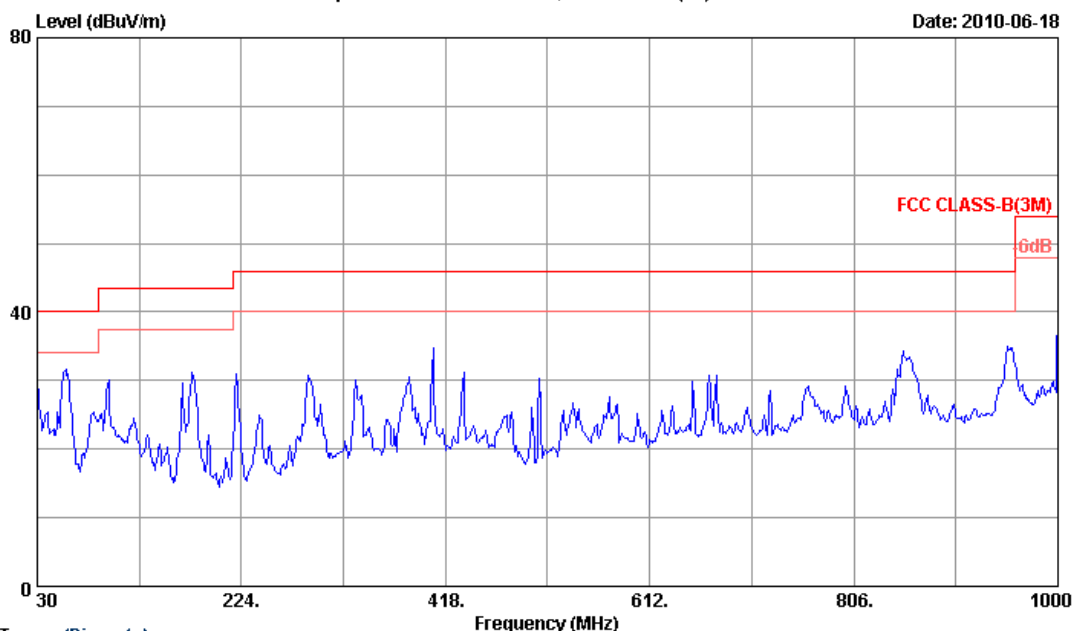
Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 22
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:1024*768@70Hz

Data: 21

File: D:\2010 Report Data\JJIEHE\ACS10Q0886R2.EM6 (60)

Date: 2010-06-18



Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 21
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : VERTICAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:1024*768@70Hz

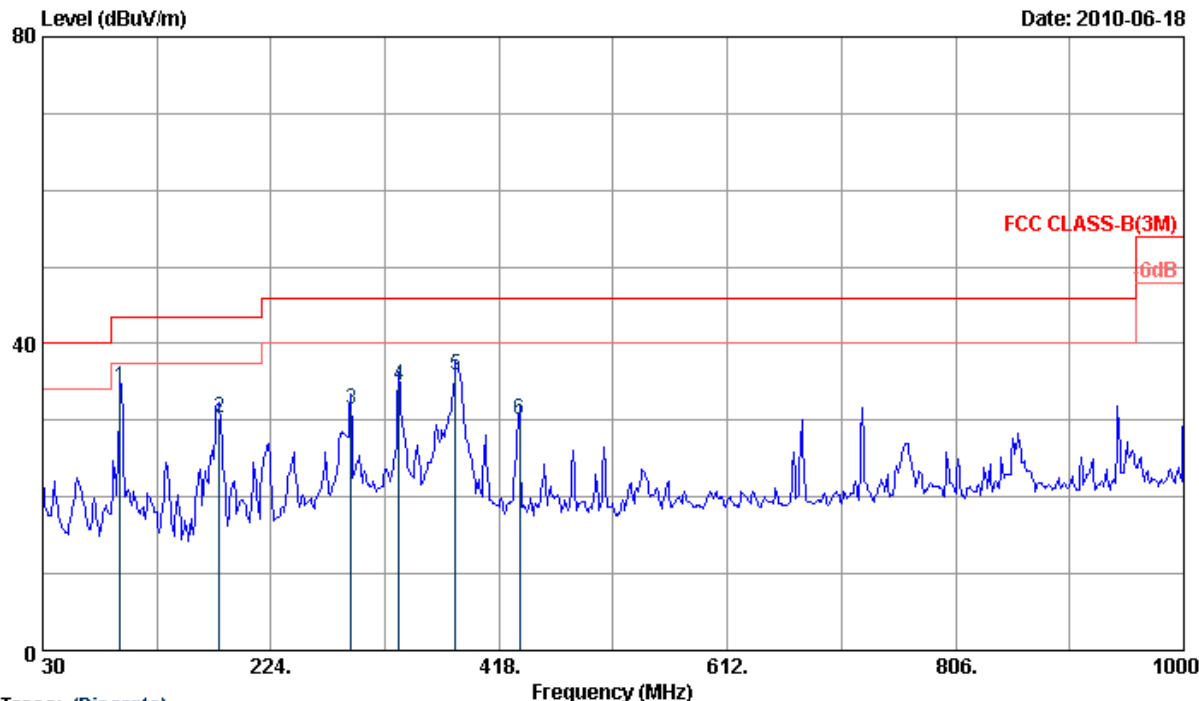


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Data: 20

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Date: 2010-06-18



Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 20
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:1366*768@60Hz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	95.960	10.96	1.50	21.88	34.34	43.50	9.16	QP
2	180.350	9.90	1.97	18.39	30.26	43.50	13.24	QP
3	291.900	13.74	2.47	15.32	31.53	46.00	14.47	QP
4	332.640	14.62	2.63	17.18	34.43	46.00	11.57	QP
5	381.140	15.83	2.98	17.11	35.92	46.00	10.08	QP
6	435.460	17.00	2.90	10.14	30.04	46.00	15.96	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

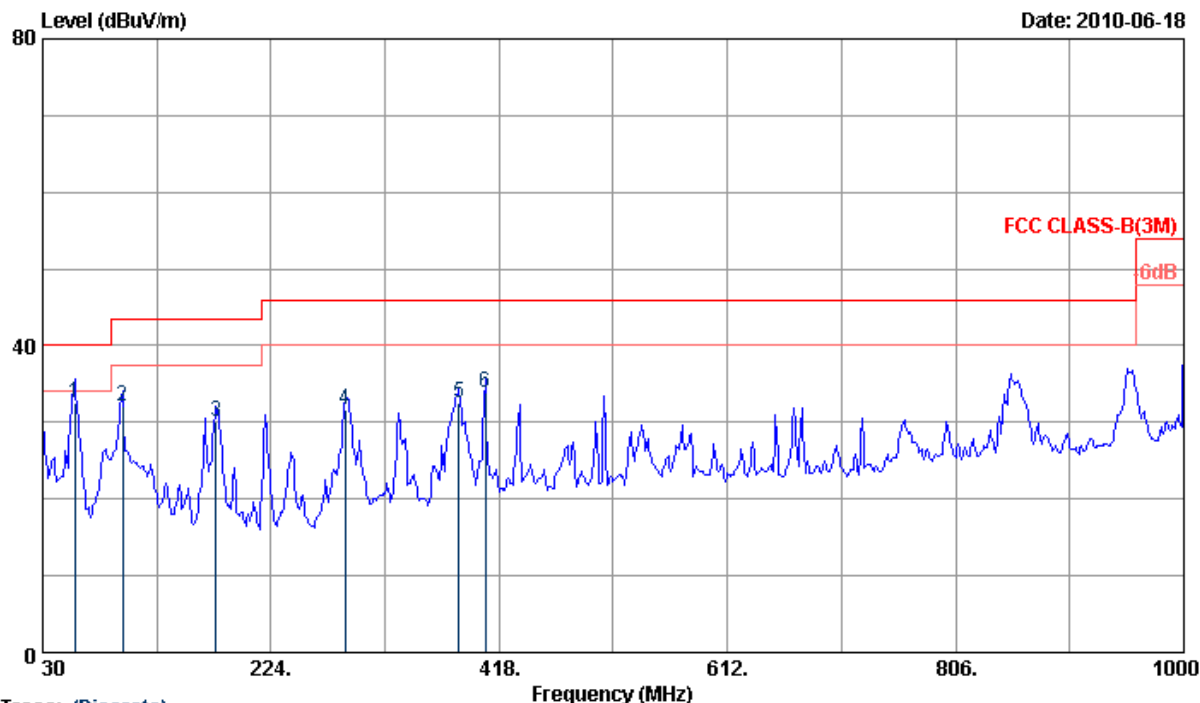


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Data: 19

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Date: 2010-06-18



Trace: (Discrete)

Site no. : 10m Chamber Test Site Data No. : 19
Dis. / Ant. : 3m 10 CBL6112D 25238 3M Ant. pol. : VERTICAL
Limit : FCC CLASS-B(3M)
Env. / Ins. : 24°C/56% Engineer : Chris
EUT : Mini PC M/N:Giada Slim-i20-PD
Power Rating : DC 19V Adapter Input AC 120V/60Hz
Test Mode : Running PC All Systems
: VGA+HDMI:1366*768@60Hz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	57.160	7.22	1.30	24.09	32.61	40.00	7.39	QP
2	97.900	11.28	1.51	19.29	32.08	43.50	11.42	QP
3	177.440	9.90	1.94	18.28	30.12	43.50	13.38	QP
4	287.050	13.67	2.49	15.58	31.74	46.00	14.26	QP
5	384.050	15.92	2.88	13.64	32.44	46.00	13.56	QP
6	406.360	16.96	2.96	13.87	33.79	46.00	12.21	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Test Frequency: Above 1GHz

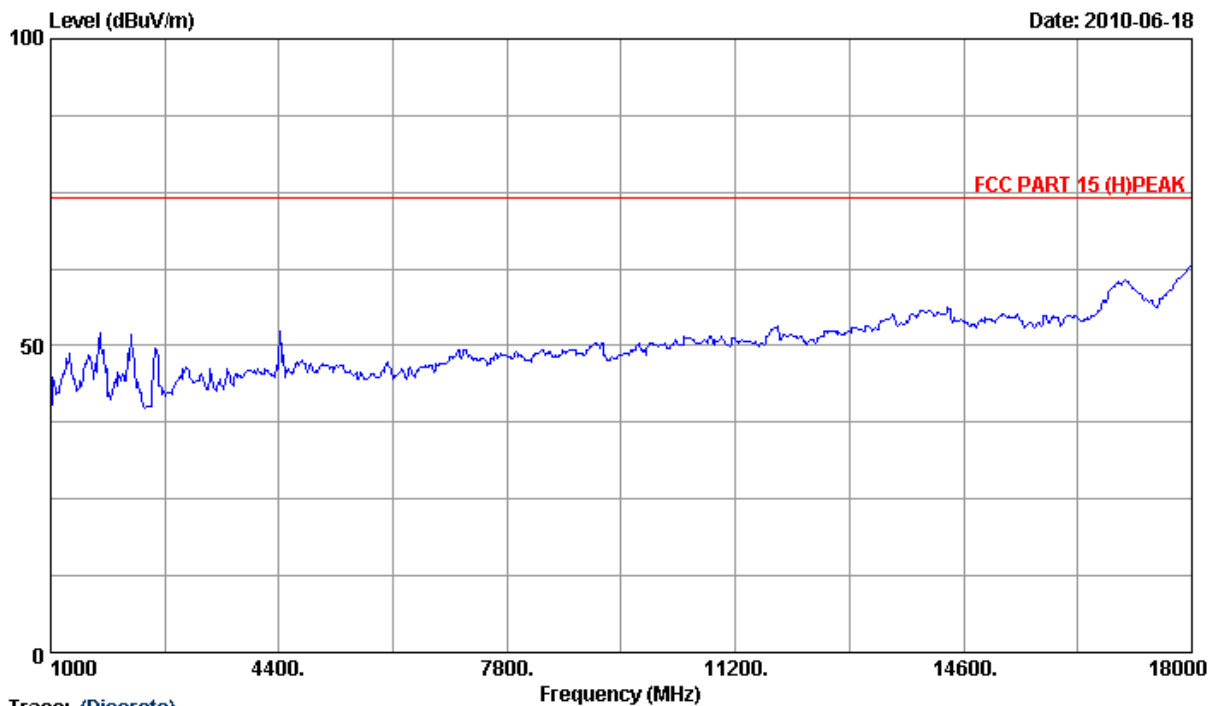


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Data: 55

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Date: 2010-06-18



Trace: (Discrete)

Site no.	: 10m Chamber	Data No.	: 55
Dis. / Ant.	: 3m 2009 3115 ANT	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 (H)PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Chris
EUT	: Mini PC M/N:Giada Slim-i20-PD		
Power Rating	: DC 19V Adapter Input AC 120V/60Hz		
Test Mode	: Running PC All Systems		
VGA+HDMI:1920*1200@60Hz			

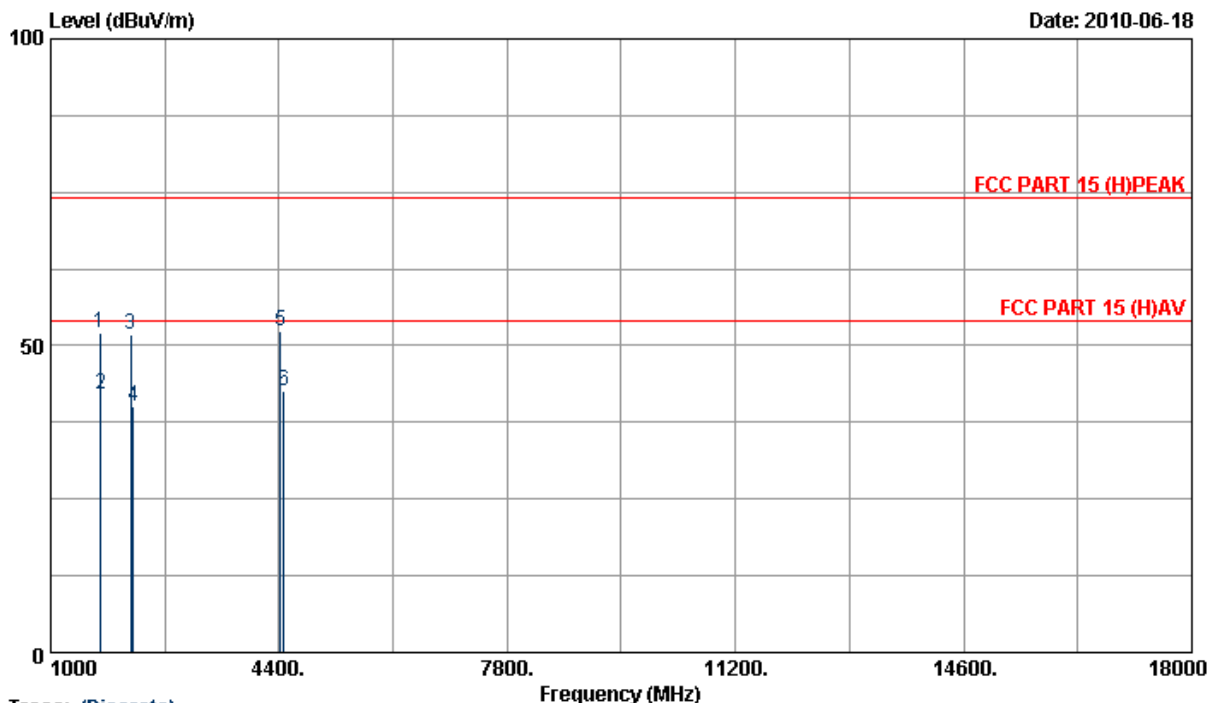


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Data: 56

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Date: 2010-06-18



Trace: (Discrete)

Site no.	: 10m Chamber	Data No.	: 56
Dis. / Ant.	: 3m 2009 3115 ANT	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 (H)PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Chris
EUT	: Mini PC M/N:Giada Slim-120-PD		
Power Rating	: DC 19V Adapter Input AC 120V/60Hz		
Test Mode	: Running PC All Systems		
	VGA+HDMI:1366*768@60Hz		

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1731.154	25.71	4.97	36.86	58.40	52.22	74.00	21.78	Peak
2	1748.135	25.75	4.99	36.85	48.16	42.05	54.00	11.95	Average
3	2190.054	27.44	5.58	36.66	55.47	51.83	74.00	22.17	Peak
4	2224.055	27.64	5.63	36.66	43.63	40.24	54.00	13.76	Average
5	4417.285	32.90	7.81	35.43	47.07	52.35	74.00	21.65	Peak
6	4468.015	32.84	7.85	35.41	37.25	42.53	54.00	11.47	Average

Remarks: 1. Emission Level=Antenna Factor+Cable Loss-Amp Factor+Reading.
2. The emission levels that are 20dB below the official limit are not reported.

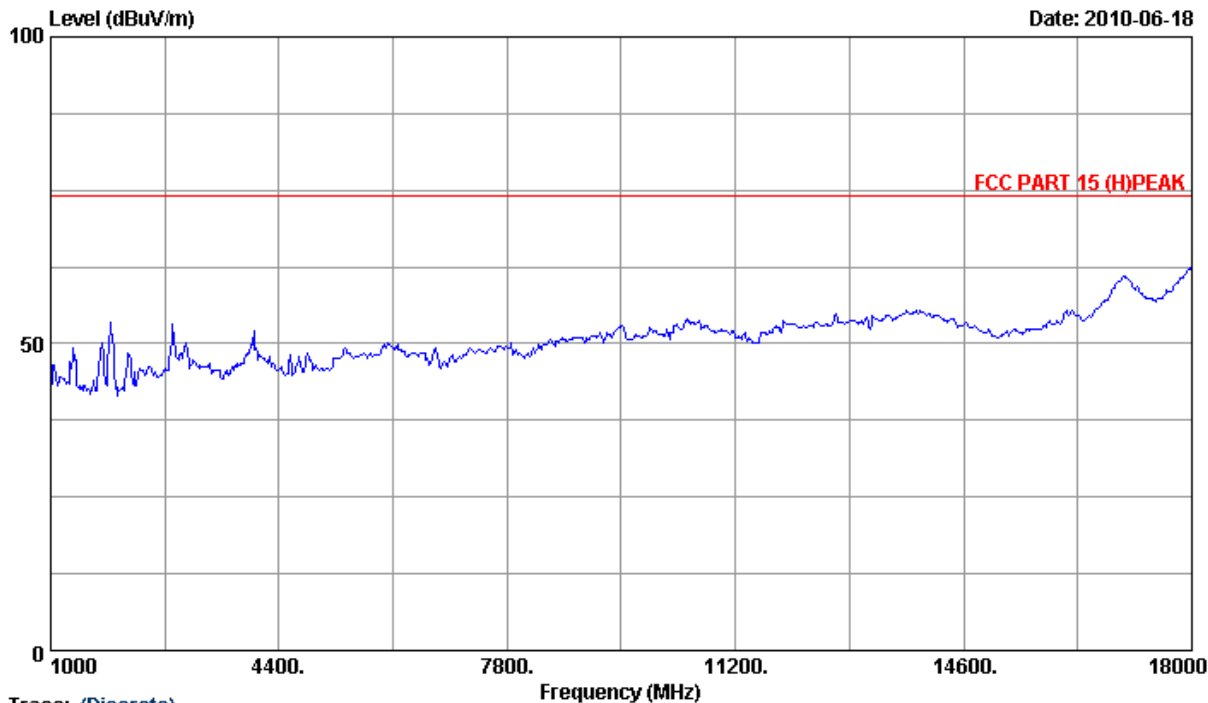


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Date: 2010-06-18



Trace: (Discrete)

Site no.	: 10m Chamber	Data No.	: 53
Dis. / Ant.	: 3m 2009 3115 ANT	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 (H)PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Chris
EUT	: Mini PC M/N:Giada Slim-120-PD		
Power Rating	: DC 19V Adapter Input AC 120V/60Hz		
Test Mode	: Running PC All Systems		
	VGA+HDMI:1920*1200@60Hz		

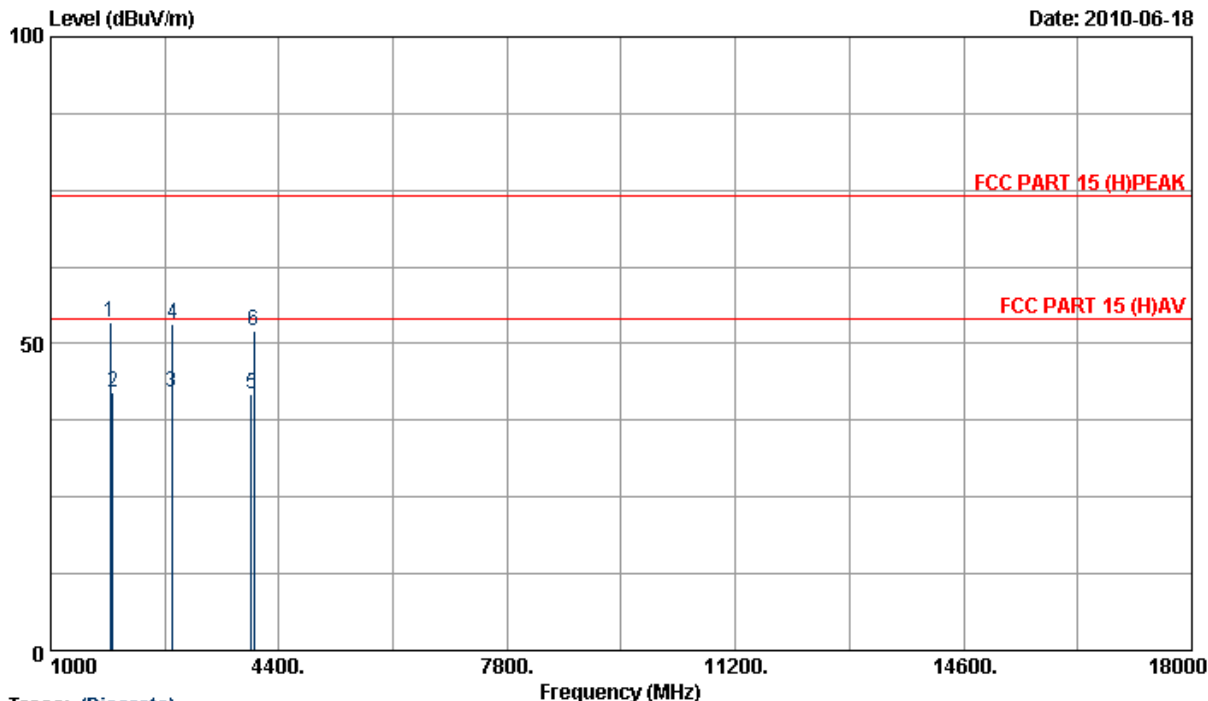


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Data: 54

File: D:\2010 Report Data\J\JIEHE\ACS10Q0886R2.EM6 (60)

Date: 2010-06-18



Trace: (Discrete)

Site no.	: 10m Chamber	Data No.	: 54
Dis. / Ant.	: 3m 2009 3115 ANT	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 (H) PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Chris
EUT	: Mini PC M/N: Giada Slim-120-PD		
Power Rating	: DC 19V Adapter Input AC 120V/60Hz		
Test Mode	: Running PC All Systems		
	VGA+HDMI: 1920*1200@60Hz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1884.050	26.04	5.17	36.77	59.10	53.54	74.00	20.46	Peak
2	1918.220	26.12	5.21	36.75	47.56	42.14	54.00	11.86	Average
3	2802.135	30.26	6.42	36.54	41.80	41.94	54.00	12.06	Average
4	2819.165	30.31	6.44	36.54	53.09	53.30	74.00	20.70	Peak
5	3992.250	33.40	7.47	35.60	36.55	41.82	54.00	12.18	Average
6	4026.550	33.36	7.50	35.59	46.79	52.06	74.00	21.94	Peak

Remarks: 1. Emission Level=Antenna Factor+Cable Loss-Amp Factor+Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]