Technical Compliance Statement

For the following information Ref. File No.: C1M1112269

Product	:	POS terminal
Model Number	:	IPA280-01P1802
Brand Name	:	INGENICO
Applicant	:	INGENICO
Manufacturer	:	Inventec Appliances Corp.
Standards	:	FCC 47 CFR Part 15 Subpart B/Oct. 2010 and CISPR 22/1997 and ICES-003 (Class B Limit)

We hereby certify that the above product has been tested by us and complied with the FCC official limits. These products might be marketed at the US accordance to FCC Rule based on the standard 47 CFR Part 2 and Part 15 Class B Equipment Regulations. The test was performed accordance to the procedures from ANSI C63.4-2003. The test data & results are issued on the test report no. EM-F1001063.

Signature

Ben Cheng/Manager
Date: Mar. 05, 2012

Test Laboratory:
AUDIX Technology Corporation, EMC Department
NVLAP Lab Code: 200077-0
FCC OET Designation: TW1004
Web Site: www.audixtech.com

NVLAP Lab Code 200077-0

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does permit the use of the test lab logo.

TEST REPORT FOR FCC DoC
for
INGENICO
POS terminal
Model No. : IPA280-01P1802
Brand: INGENICO

Prepared for : INGENICO
192, avenue Charles de Gaulle , 92200
Neuilly-sur-Seine, FRANCE

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Dingfu, Linkou Dist.,
New Taipei City 244, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax : (02) 2609-9303

File Number	:	C1M1112269
Report Number	:	EM-F1001063
Date of Test	:	Jan. 16 ~ 17, 2012
Date of Report	:	Jan. 19, 2012

TABLE OF CONTENTS

DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Revision Summary	Report No.
0	Jan. 19, 2012	Original Report.	EM-F1001063
(Rev. 01)	Mar. 05, 2012	To delete the model “iPA280” and correct the test model from “iPA280” into “IPA280-01P1802”.	EM-F1001063
Remark: This reissue report of F1001063 is revised directly for delete the model “iPA280” and correct the test model from “iPA280” into “IPA280-01P1802”.			

TEST REPORT FOR FCC COMPLIANCE DECLARATION

Applicant	:	INGENICO
Manufacturer	:	Inventec Appliances Corp.
EUT Description	:	POS terminal
	(A) Model No.	: IPA280-01P1802
	(B) Serial No.	: N/A
	(C) Brand	: INGENICO
	(D) Power Supply	: AC 100-240V, 50/60Hz
	(E) Test Voltage	: AC 120V/60Hz

Measurement Standard Used:
FCC CFR 47 Part 15 Subpart B/Oct. 2010
ANSI C63.4-2003
ICES-003 Issue 4 Feb. 2004
(NOTE：These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.)

The device described above was tested by AUDIX Technology Corporation, to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart B with the provisions of sections 15.107(a) and 15.109(a)(g) Class B limits both conducted and radiated emissions.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only and which shall not be reproduced in part without written approval of AUDIX Technology Corporation.

This 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.

Date of Test : Jan. 16 ~ 17, 2012 Date of Report : Mar. 05, 2012

Producer by: Sandy chen
(Sandy Chen/Assistant Administrator)

Approval by: Ben Cheng
(Ben Cheng/Manager)

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	POS terminal This test report is for EUT Link PC Function Only.
Model Number	:	IPA280-01P1802
Brand	:	INGENICO
Applicant	:	INGENICO 192, avenue Charles de Gaulle , 92200 Neuilly-sur-Seine, FRANCE
Manufacturer	:	Inventec Appliances Corp. 37, Wu-Kung 5 Road Wu-Ku Industrial Park, Wu-Ku Hsiang, New Taipei City, Taiwan, R.O.C.
USB Cable	:	Shielded, Undetachable, 0.3m
Lithium ion Battery Pack	:	INGENICO, M/N IPA200-BAT VBT 3.7V, 1900mA 7.03Whr
FCC ID	:	XKBIPA280NEWMODEM
WLAN Module	:	Murata, M/N LBWA18HLZZ-287
Bluetooth Module	:	CSR, M/N BC06
GPS	:	Broadcom, M/N BCM4750
Cradle (Option)	:	INGENICO, M/N iPA200-BASE Evolution Input: 5V DC 4A

AC Adapter#1	:	PI Electronics, M.N AD7011LF Input: 100-240V~50/60Hz, 0.6A Output: 5V 4.0A DC Power Cord: Shielded, Undetachable, 1.5m Bonded a ferrite core
Switching Adapter#2	:	DVE, DSA-10CU-05 050200 Input: 100-24V~ 50/60Hz 0.5A Output: 5V 2A
Interface Ports of EUT	:	**EUT** SD Slot*1 USB Port*1 Connect Port*1 **Docking** Micro USB port*1 RJ45 LAN port*1 RS-232 port*1 DC In*1
Date of Receipt of Sample	:	Jan. 12, 2012
Date of Test	:	Jan. 16 ~ 17, 2012

Remark:

This EUT with the following test modes was pre-scanned. Finally, this report was selected the worst test mode to issue report.

The details of pre-scanned modes are as follows：(Total 4 modes)

Test Voltage	Operating Mode
AC 120V/60Hz	Link PC (USB Mode) with Cradle & AC Adapter #1 (Via PI Electronics, M.N AD7011LF)
	Link PC (LAN Mode) with Cradle & AC Adapter #1 (Via PI Electronics, M.N AD7011LF)
	Link PC with EUT Only (Via PC System)
	Stand Alone Mode AC Adapter #2 (Via DVE, DSA-10CU-05 050200)

The worst test modes are as follow：

Test Item	Operating Mode
Powerline Conducted Emission Measurement	(1)Link PC (USB Mode) with Cradle & AC Adapter #1 (Via PI Electronics, M.N AD7011LF) (2)Stand Alone Mode AC Adapter #2 (Via DVE, DSA-10CU-05 050200)
Radiated Emission Measurement	

1.2. Description of Tested Supporting Unit and Cable

1.2.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	PC System	LENOVO	MT-M 7611-PV2	R82RT28	FCC DoC Approved
2.	15” LCD Monitor	HP	D5063	CN206A6581	ARSLM562H
3.	USB Keyboard	LENOVO	KU-0225	0904489	FCC DoC Approved
4.	USB Mouse	LENOVO	LXB MO28UOAUSB	4402692	FCC DoC Approved
5.	DeskJet 400 Printer	HP	C2642A	MY83N1C0J0	B94C2642X
6.	I-POD Earphone	APPLE	N/A	N/A	N/A
7.	I-POD Player	APPLE	A1204	4H722T84VTE	N/A
8.	Simulator (AC Socket)	N/A	N/A	N/A	N/A
9.	Bluetooth Earphone	Innostar	IH-05	N/A	UU9MBH200

1.2.2. Cable List

No.	Signal Cable Description Of The Above Support Units
1.	AC Power Cord: Non-Shielded, Detachable, 1.8m (3 Pin) USB Cable: Shielded, Undetachable, 1.8m RS-232 Cable: Shielded, Detachable, 2.0m LAN Cable: Shielded, Detachable, 2.0m
2.	AC Power Cord: Non-Shielded, Detachable, 1.8m (3 Pin) D-Sub Cable: Shielded, Detachable, 1.8m, Bonded two ferrite cores
3.	USB Cable: Shielded, Undetachable, 1.8m
4.	USB Cable: Shielded, Undetachable, 1.8m
5.	AC Power Cord: Non-Shielded, Detachable, 1.8m (3 Pin) Data Cable: Shielded, Undetachable, 1.8m
6.	Earphone Cable: Non-Shielded, Detachable, 0.9m
7.	USB Data Cable: Shielded, Undetachable, 1m
8.	AC Power Cord: Non-Shielded, Detachable, 1.8m (3 Pin)
9.	N/A

1.3. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C.
Test Site (C3/R3)	:	**No. 3 Shielded Room** No. 67-4, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. **No. 3 Open Area Test Site** No. 67-4, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. Federal Communication Commission Registration Number: 90996 Renewal on February 03, 2009
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 10m)	30MHz~300MHz	± 2.99dB
	300MHz~1000MHz	± 2.73dB

Remark：Uncertainty = kuc(y)

2. POWERLINE CONDUCTED EMISSION MEASUREMENT

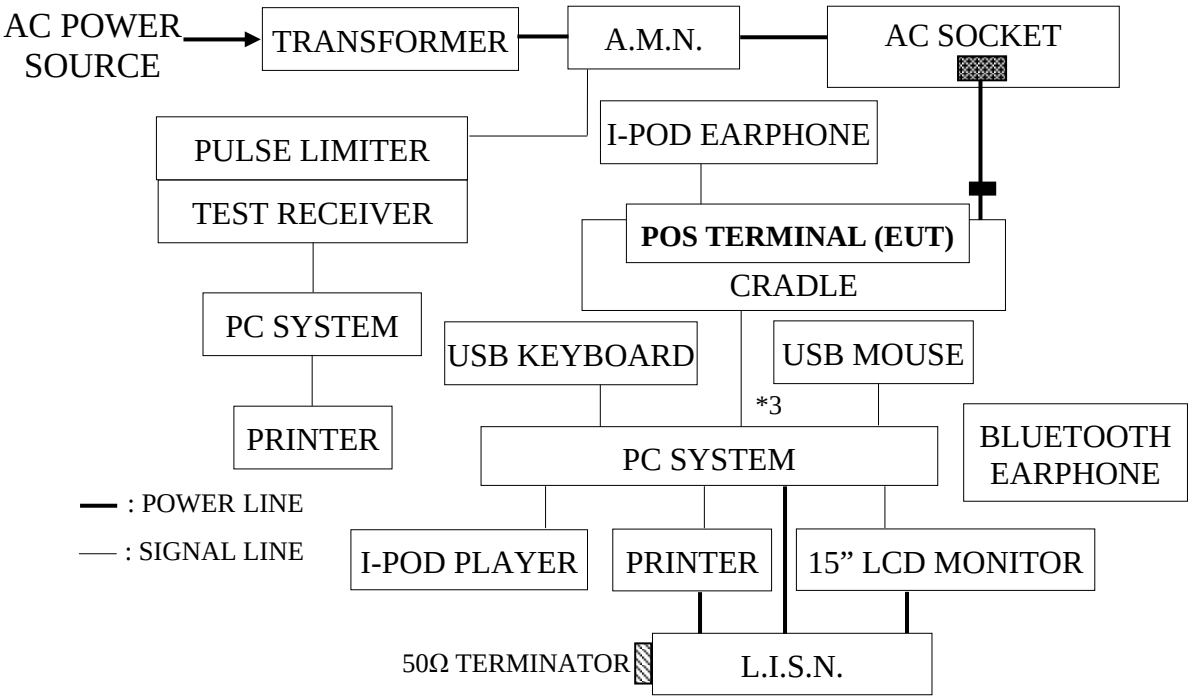
2.1. Test Equipment

The following test equipment was used during the powerline conducted emission measurement: (No. 3 Shielded Room)

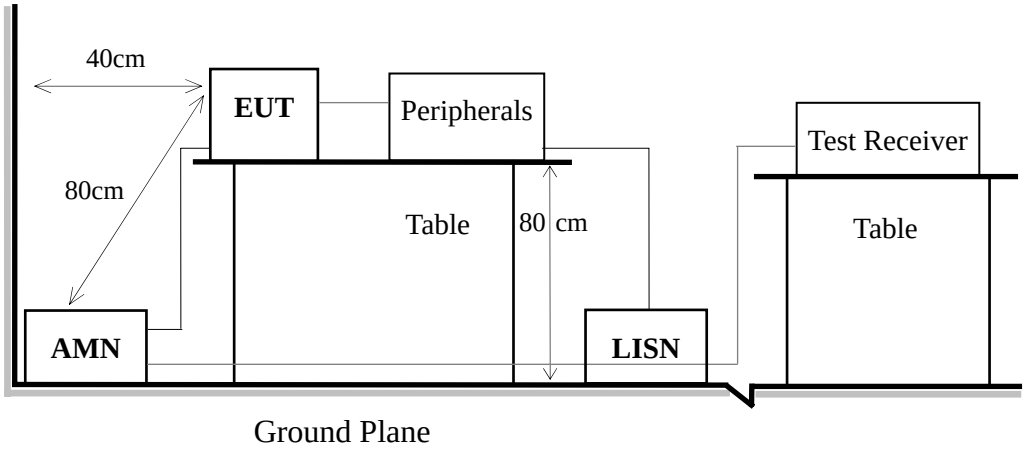
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS 30	100337	Apr. 11, 11'	Apr. 10, 12'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Jul. 14, 11'	Jul. 13, 12'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Jun. 09, 11'	Jun. 08, 12'
4.	Pulse Limiter	R & S	ESH3Z2	100041	Feb. 01, 11'	Jan. 31, 12'

2.2. Block Diagram of Test Setup

2.2.1. Block Diagram of connection between EUT and simulators



2.2.2. Shielded Room Setup Diagram



2.3. Powerline Conducted Emission Limit (§15.107(a), Class B)

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

Remark: 1.*Decreases with the logarithm of the frequency.

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 the average detector is unnecessary.

2.4. Operating Condition of EUT

EUT Condition	
Operating System	Windows 7
Test Program	ActiveSync & Data transfer to PC System
Data was communication between EUT and PC System via USB or LAN cable.	
The other peripheral devices were driven and operated in turn during all testing.	

2.5. Test Procedure

The EUT was placed on table which was above the ground by 80cm and it's adapter power cord was connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R & S Test Receiver ESCS 30 was set at 9 kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

All the readings of measurements were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

The EUT was measured during this section testing and the worst test results are attached in next pages.

EUT：POS terminal Model No.: IPA280-01P1802

Test Date: Jan. 17, 2012 Temperature: 25℃ Humidity: 52%

The details are as follows：

No.	Adapter	Test Mode	Reference Test Data No.	
			Neutral	Line
1.	PI Electronics, M.N AD7011LF	Link PC Mode	# 2	# 1
2.	DVE, DSA-10CU-05 050200		# 6	# 5

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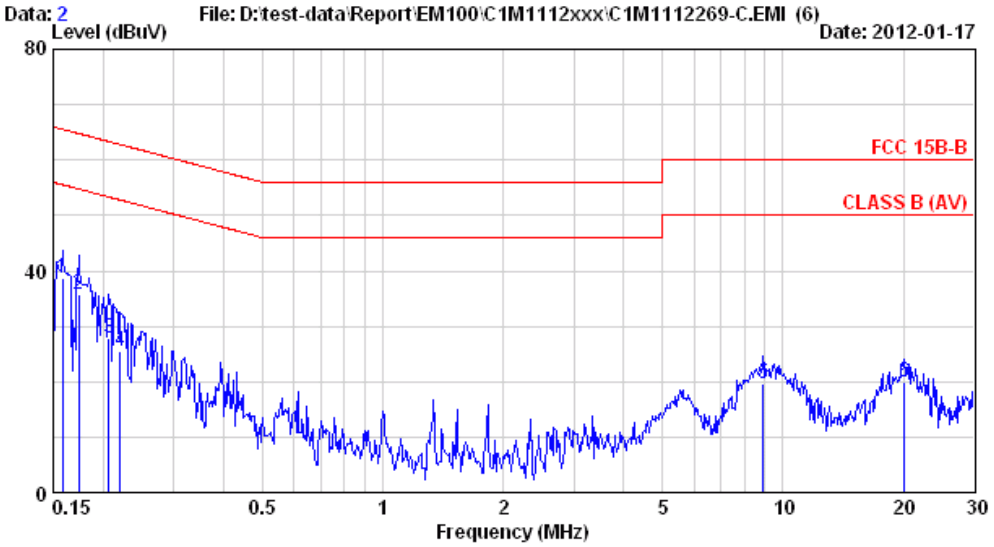


```
Site          : No.3 Shielded Room          Data     : 2
Condition     : KNW-244C                    Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C / 52%  ESCS 30 (337)   Engineer: Jasper
EUT           : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : Link PC +Cradle (Operating)
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.13	0.20	38.43	38.76	65.56	26.80	QP
2	0.174	0.12	0.20	35.56	35.88	64.77	28.89	QP
3	0.206	0.10	0.20	27.49	27.79	63.36	35.57	QP
4	0.221	0.10	0.20	25.18	25.48	62.79	37.31	QP
5	8.916	0.29	0.60	18.72	19.61	60.00	40.39	QP
6	20.162	0.39	0.70	18.96	20.05	60.00	39.95	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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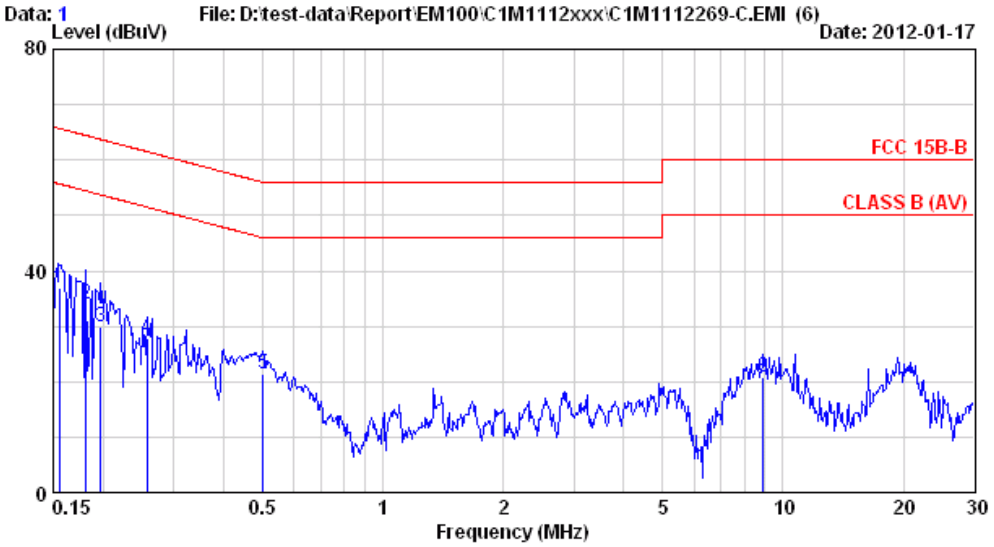


```
Site          : No.3 Shielded Room          Data     : 1
Condition     : KNW-244C                    Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C / 52%  ESCS 30 (337)   Engineer: Jasper
EUT           : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : Link PC +Cradle (Operating)
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.156	0.14	0.20	36.66	37.00	65.69	28.70	QP
2	0.182	0.11	0.20	33.78	34.09	64.42	30.32	QP
3	0.198	0.10	0.20	29.55	29.85	63.71	33.86	QP
4	0.258	0.10	0.20	27.49	27.79	61.51	33.72	QP
5	0.502	0.10	0.20	21.06	21.36	56.00	34.64	QP
6	8.916	0.37	0.60	19.86	20.83	60.00	39.17	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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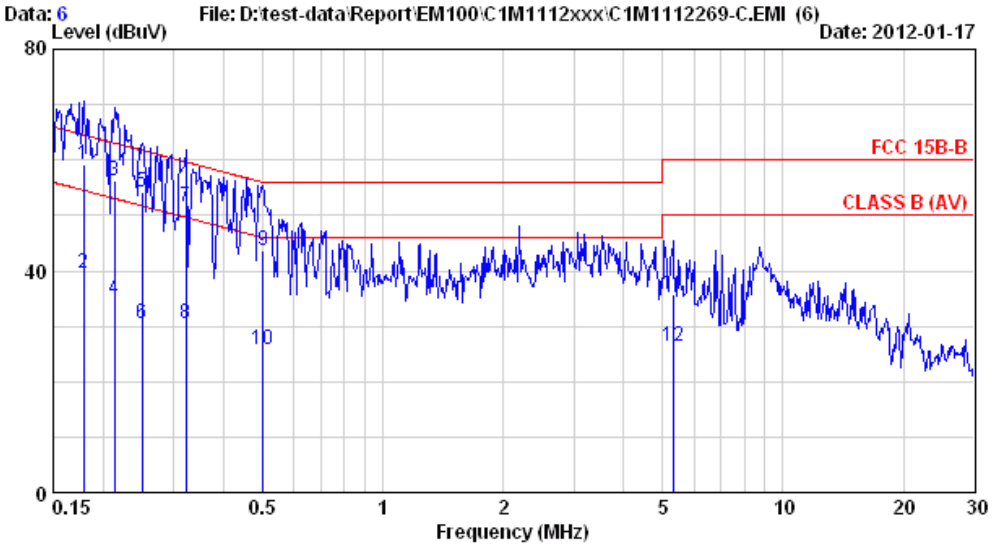

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337)
EUT : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : OPERATING
ADP:DSA-10CU-05

Data : 6
Phase : NEUTRAL
Engineer: Jasper

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.179	0.12	0.20	58.85	59.17	64.55	5.38	QP
2	0.179	0.12	0.20	39.32	39.64	54.55	14.91	AVERAGE
3	0.214	0.10	0.20	55.82	56.12	63.05	6.93	QP
4	0.214	0.10	0.20	34.67	34.97	53.05	18.08	AVERAGE
5	0.251	0.10	0.20	53.95	54.25	61.73	7.48	QP
6	0.251	0.10	0.20	30.04	30.34	51.73	21.39	AVERAGE
7	0.322	0.10	0.20	51.31	51.61	59.66	8.05	QP
8	0.322	0.10	0.20	30.05	30.35	49.66	19.31	AVERAGE
9	0.502	0.10	0.20	43.46	43.76	56.00	12.24	QP
10	0.502	0.10	0.20	25.46	25.76	46.00	20.24	AVERAGE
11	5.305	0.23	0.60	35.03	35.86	60.00	24.14	QP
12	5.305	0.23	0.60	25.58	26.41	50.00	23.59	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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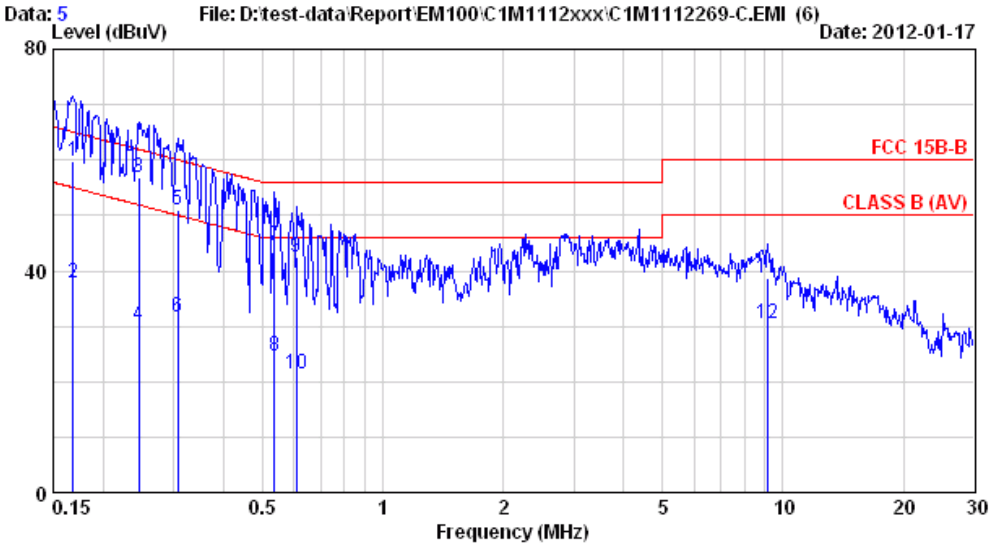


Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337)
EUT : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : OPERATING
ADP:DSA-10CU-05

Data : 5
Phase : LINE
Engineer: Jasper

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.169	10.05	0.20	49.66	59.91	65.03	5.12	QP
2	0.169	10.05	0.20	27.55	37.80	55.03	17.23	AVERAGE
3	0.246	9.98	0.20	46.72	56.90	61.91	5.00	QP
4	0.246	9.98	0.20	20.09	30.27	51.91	21.63	AVERAGE
5	0.307	9.95	0.20	40.98	51.13	60.06	8.93	QP
6	0.307	9.95	0.20	21.57	31.72	50.06	18.34	AVERAGE
7	0.535	9.88	0.20	34.43	44.51	56.00	11.50	QP
8	0.535	9.88	0.20	14.52	24.60	46.00	21.41	AVERAGE
9	0.608	9.87	0.20	32.50	42.57	56.00	13.44	QP
10	0.608	9.87	0.20	11.23	21.30	46.00	24.71	AVERAGE
11	9.156	9.89	0.60	28.26	38.75	60.00	21.25	QP
12	9.156	9.89	0.60	19.96	30.45	50.00	19.55	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

3.1.1. For 30MHz~1000MHz Frequency (At No. 3 Open Area Test Site)

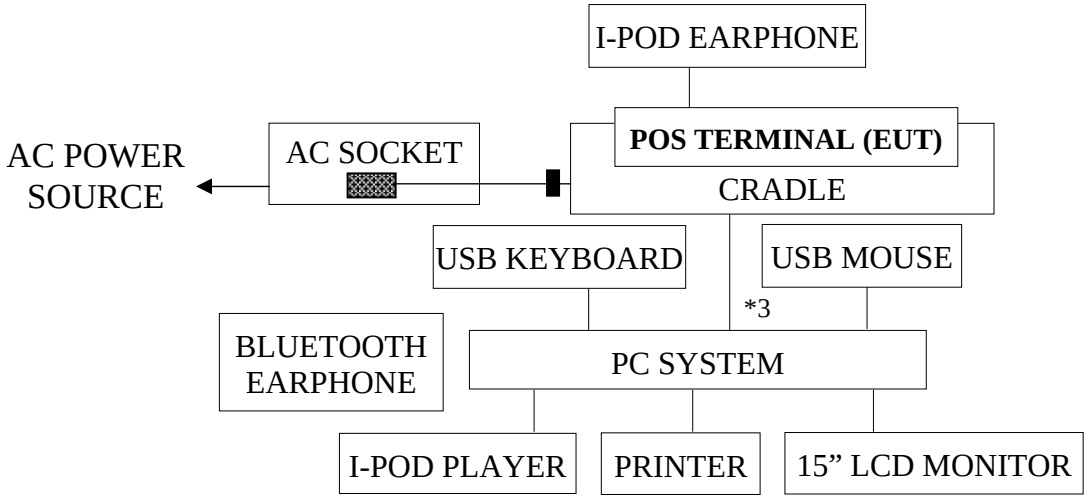
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A-503	MY51120074	Apr. 05, 11’	Apr. 04, 12’
2.	Test Receiver	R & S	ESVS 10	845165/018	Aug. 04, 11’	Aug. 03, 12’
3.	Amplifier	HP	8447D	2727A05737	N/A	N/A
4.	Biconical Antenna	CHASE	VBA6106A	1227	Mar. 08, 11’	Mar. 07, 12’
5.	Log Periodic Antenna	CHASE	UPA6109	1031	Mar. 08, 11’	Mar. 07, 12’

3.1.2. For Above 1GHz Frequency (At No. 3 Open Area Test Site)

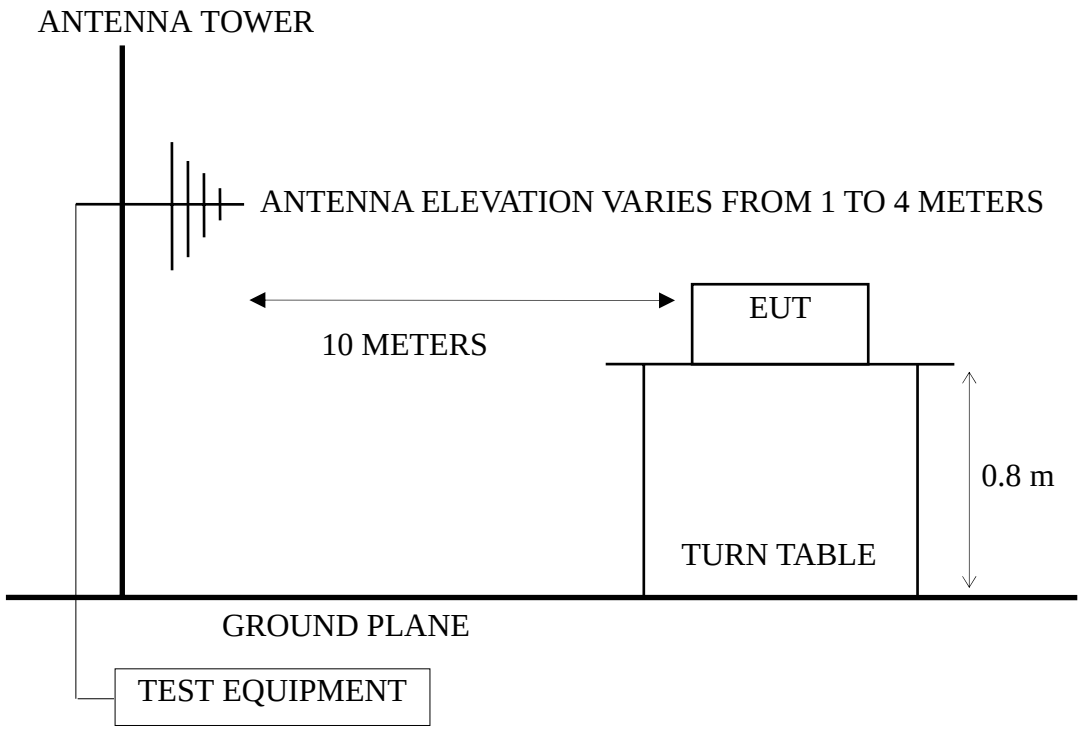
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000132	Jun. 10, 11’	Jun. 09, 12’
2.	Amplifier	HP	8449B	3008A02596	Jan. 09, 12’	Jan. 08, 13’
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 12, 11’	Jul. 11, 12’

3.2. Block Diagram of Test Setup

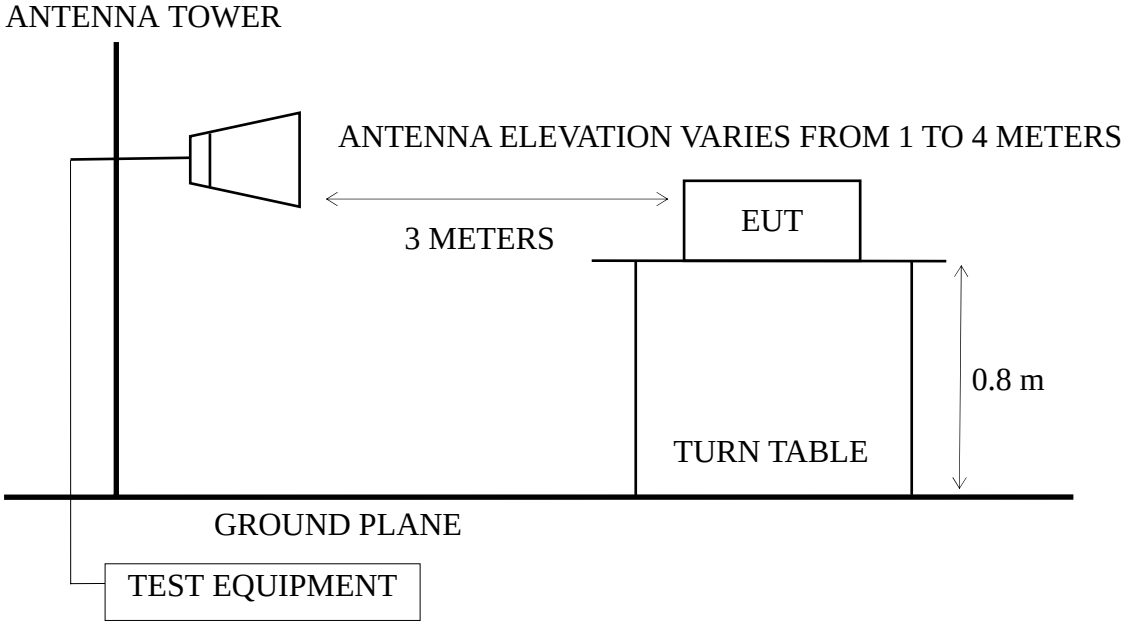
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Area Test Site Setup Diagram (10m) for 30-1000MHz



3.2.3. Open Area Test Site Setup Diagram (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limit (§15.109(a)(g)/CISPR 22, Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37
Above 1000	3	74.0 (Peak)
Above 1000	3	54.0 (Average)

Note： (1) The tighter limit applies at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.

(3) There is no over 1GHz limits in CISPR 22 standard. Therefore, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (a)(g).

3.4. Operating Condition of EUT

Same as powerline conducted emission which is listed in 2.4.
except the test set up replaced by section 3.2.

3.5. Test Procedure

3.5.1. For Frequency Range was 30MHz-1000MHz which measurement distance was 10m at Open Area Test Site:

The EUT and its simulator were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters away from the receiving antenna which were mounted on an antenna tower. The antenna could be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antennas (Biconical Antenna & Log Periodic Antenna) were used as a receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 and CISPR 22 on radiated measurement.

The bandwidth of the R & S Test Receiver ESVS 10 was set at 120 kHz.

The frequency range from 30MHz to 1000MHz was checked with Peak detector and all final readings of measurement were with Quasi-Peak detector at open area test site.

3.5.2. For Frequency Range was above 1GHz which measurement distance was 3m at Open Area Test Site:

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna were set on measurement, and both average and peak emission level were recorded form spectrum analyzer. In order to find the maximum emission level, all the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The resolution bandwidth of Agilent Spectrum Analyzer E7405A was set at 1MHz.

The frequency range above 1GHz was checked and all final readings of measurement were with Peak and Average detector at Open Area Test Site.

3.6. Radiated Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

For 30MHz~1000MHz frequency range:

The EUT was measured during this section testing and the worst test results are attached in section 3.6.1.

EUT：POS terminal Model No.: IPA280-01P1802

Test Date: Jan. 16, 2012 Temperature: 16℃ Humidity: 55%

The details are as follows：

No.	Adapter	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
※1.	PI Electronics, M.N AD7011LF	Link PC Mode	**# 2**	**# 1**
2.	DVE, DSA-10CU-05 050200		# 8	# 7

(※ mode for maximum detected emission)

For above 1GHz frequency range:

The EUT was measured during this section testing and all the worst test results are attached in section 3.6.2.

EUT：POS terminal Model No.:IPA280-01P1802

Test Date: Jan. 16, 2012 Temperature: 16℃ Humidity: 55%

The details are as follows：

No.	Adapter	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
1.	PI Electronics, M.N AD7011LF	Link PC Mode	# 10	# 9

3.6.1. For Frequency Range was 30MHz-1000MHz which measurement distance was 10m at Open Area Test Site:

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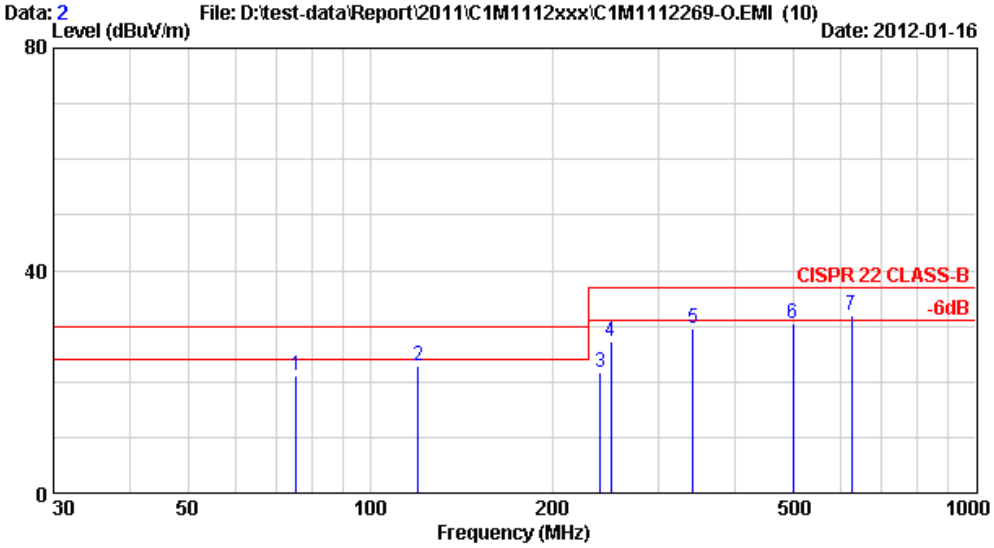


```
Site no.      : Open site NO.3              Data no.   : 2
Dis. / Ant.   : 10m  VBA6106A/UPA6109(10)   Ant. pol.  : HORIZONTAL
Limit         : CISPR 22 CLASS-B
Env. / Ins.   : 16*C / 55% ESVS 10 (018)    Engineer   : TIM
EUT  M/N      : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : LINK PC+Cradle(Operating)
                Adapter:AD7011LF
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	75.52	14.70	0.99	5.43	21.12	30.00	8.88	
2	119.94	20.62	1.29	0.94	22.85	30.00	7.15	
3	239.93	24.12	1.90	-4.47	21.55	37.00	15.45	
4	249.99	24.31	2.00	0.82	27.13	37.00	9.87	
5	341.96	18.24	2.36	8.86	29.46	37.00	7.54	
6	500.02	20.63	2.88	7.08	30.59	37.00	6.41	
7	624.96	22.61	3.33	5.94	31.88	37.00	5.12	*

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 624.96MHz with corrected signal level of 31.88dBµV/m (limit is 37.0dBµV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 210°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

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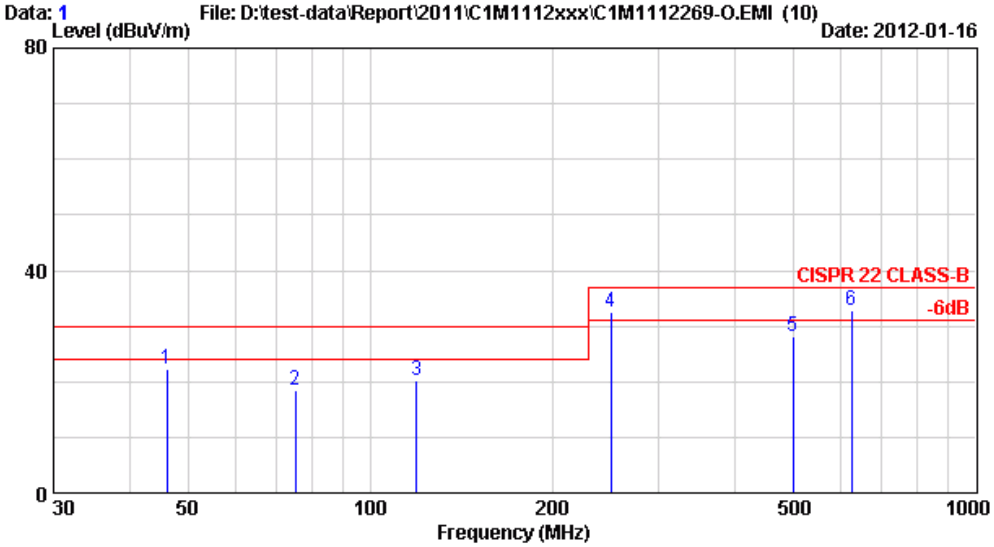

Site no. : Open site NO.3 Data no. : 1
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LINK PC+Cradle(Operating)
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	46.25	19.55	0.75	1.92	22.22	30.00	7.78	
2	75.25	14.69	0.99	2.85	18.52	30.00	11.48	
3	119.25	20.59	1.29	-1.53	20.35	30.00	9.65	
4	250.02	24.31	2.00	6.14	32.45	37.00	4.55	
5	499.93	20.63	2.88	4.50	28.01	37.00	8.99	
6	624.96	22.61	3.33	6.85	32.79	37.00	4.21	*

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

3. The worst emission is detected at 624.96MHz with corrected signal level of 32.79dBµV/m (limit is 37.0dBµV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 120°.

4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

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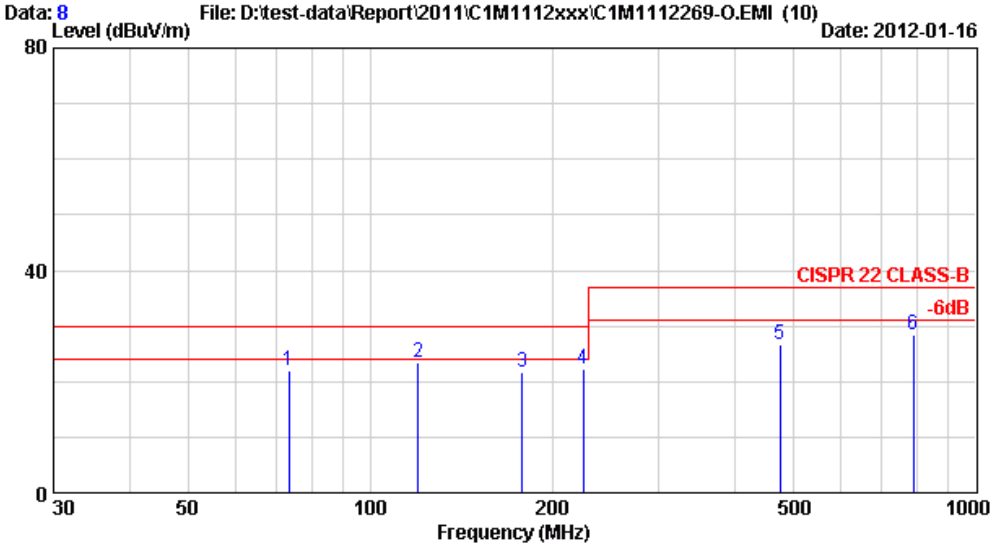

Site no. : Open site NO.3 Data no. : 8
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac/ 60Hz
Test Mode : Operating
Adapter:DSA-10CU-05 050200

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	73.53	14.67	0.99	6.26	21.91	30.00	8.09	
2	120.11	20.65	1.29	1.54	23.49	30.00	6.51	
3	178.23	22.59	1.63	-2.56	21.66	30.00	8.34	
4	225.01	23.75	1.84	-3.39	22.20	30.00	7.80	
5	475.88	20.35	2.88	3.32	26.54	37.00	10.46	
6	789.16	24.56	3.71	0.23	28.50	37.00	8.50	

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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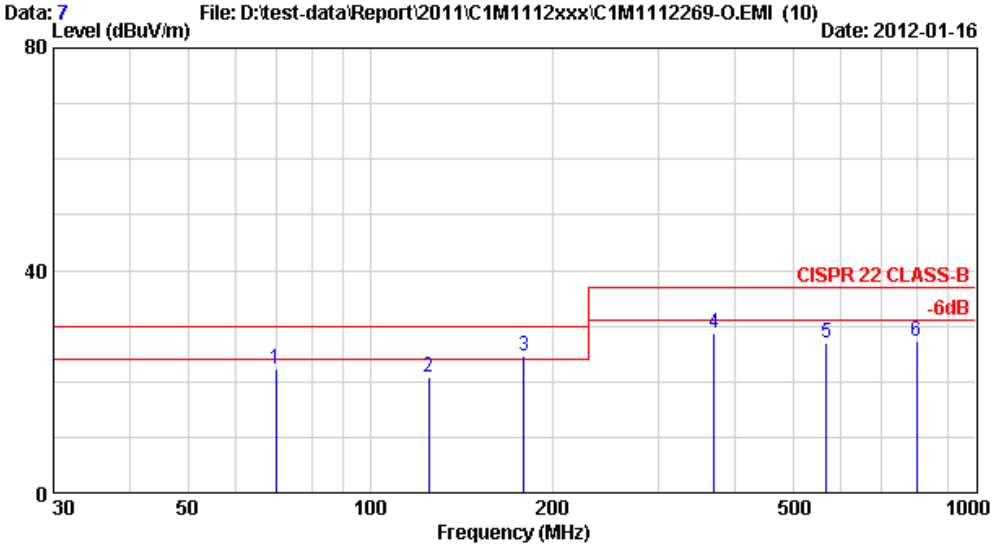


```
Site no.      : Open site NO.3              Data no.   : 7
Dis. / Ant.   : 10m  VBA6106A/UPA6109(10)   Ant. pol.  : VERTICAL
Limit         : CISPR 22 CLASS-B
Env. / Ins.   : 16*C / 55% ESVS 10 (018)    Engineer   : TIM
EUT  M/N      : IPA280-01P1802
Power Rating  : 120Vac/  60Hz
Test Mode     : Operating
                Adapter:DSA-10CU-05 050200
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	69.81	14.74	0.99	6.40	22.13	30.00	7.87	
2	125.00	21.20	1.33	-1.63	20.89	30.00	9.11	
3	179.74	22.67	1.63	0.42	24.73	30.00	5.27	
4	369.54	18.52	2.52	7.60	28.64	37.00	8.36	
5	567.44	21.43	3.21	2.43	27.07	37.00	9.93	
6	799.60	24.73	3.76	-1.17	27.32	37.00	9.68	

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

3.6.2. For Frequency Range was above 1GHz which measurement distance was 3m at Open Area Test Site:

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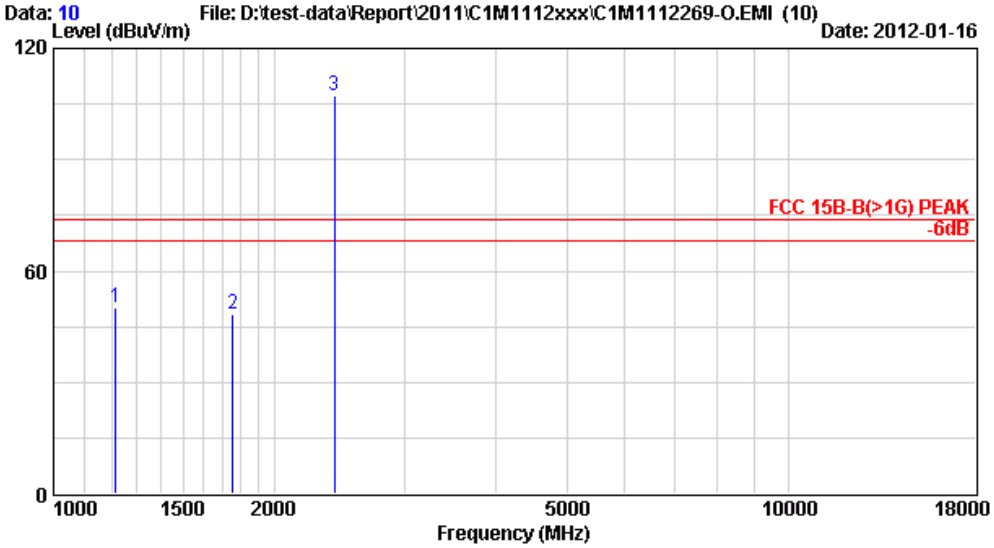


```
Site no.      : Open site NO.3              Data no.   : 10
Dis. / Ant.   : 3m   HORN ANT               Ant. pol.  : HORIZONTAL
Limit         : FCC 15B-B(>1G) PEAK
Env. / Ins.   : 16*C/ 55% E7405A (132)      Engineer   : TIM
EUT           : IPA280-01P1802
Power Rating  : 120Vac/  60Hz
Test Mode     : LINK PC+Cradle(Operating)
                Adapter:AD7011LF
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1215.12	25.21	2.03	32.41	55.30	50.14	74.00	23.86	Peak
2	1755.45	26.39	2.10	32.15	51.88	48.22	74.00	25.78	Peak
*3	2412.05	28.56	2.14	32.18	108.52				

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. "*" means the radiated emission from the transmitter/transceiver, it is ignored in this report.

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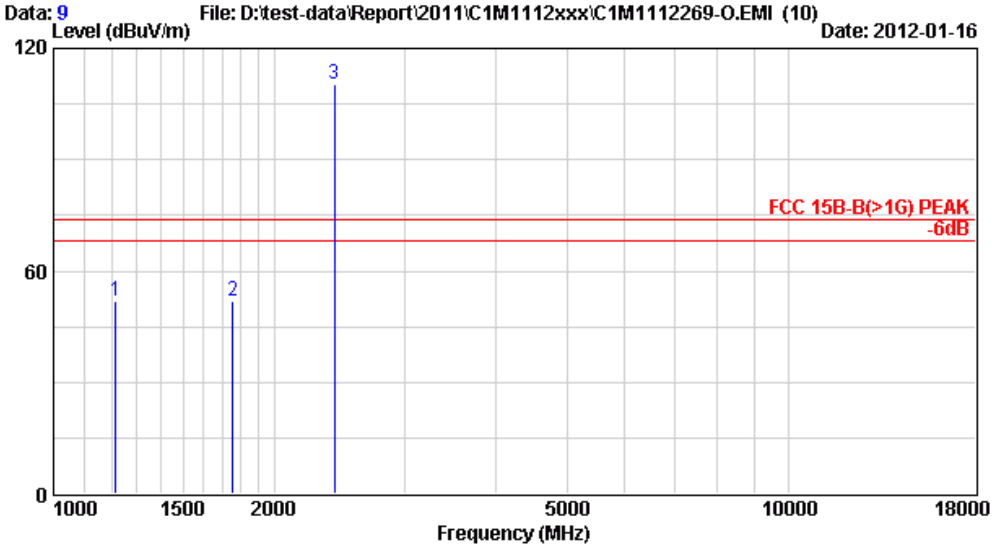

Site no. : Open site NO.3 Data no. : 9
Dis. / Ant. : 3m HORN ANT Ant. pol. : VERTICAL
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 16*C/ 55% E7405A (132) Engineer : TIM
EUT : IPA280-01P1802
Power Rating : 120Vac/ 60Hz
Test Mode : LINK PC+Cradle(Operating)
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	PREAMP GAIN (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1215.09	25.21	2.03	32.41	57.18	52.02	74.00	21.98	Peak
2	1755.75	26.39	2.10	32.15	55.63	51.97	74.00	22.03	Peak
*3	2412.02	28.56	2.14	32.18	111.83				

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Preamp Gain + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. "*" means the radiated emission from the transmitter/transceiver, it is ignored in this report.

4. DEVIATION TO TEST SPECIFICATIONS

[NONE]

5. PHOTOGRAPHS

5.1. Photos of Powerline Conducted Emission Measurement

FRONT VIEW OF CONDUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

5.2. Photos of Radiated Emission Measurement at Open Area Test Site (30-1000MHz)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

5.3. Photos of Radiated Emission Measurement at Open Area Test Site (Above 1GHz)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

APPENDIX I

(The pre-scanned data)

Total Pages: 16 Pages

For Powerline Conducted Emission Measurement

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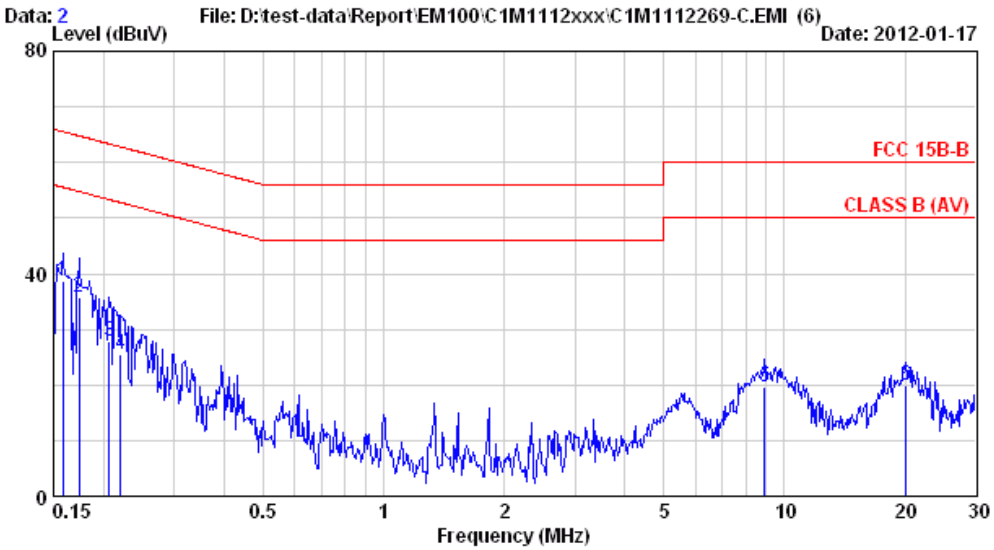


```
Site          : No.3 Shielded Room          Data     : 2
Condition     : KNW-244C                    Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C / 52%  ESCS 30 (337)   Engineer: Jasper
EUT           : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : Link PC +Cradle (Operating)
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.158	0.13	0.20	38.43	38.76	65.56	26.80	QP
2	0.174	0.12	0.20	35.56	35.88	64.77	28.89	QP
3	0.206	0.10	0.20	27.49	27.79	63.36	35.57	QP
4	0.221	0.10	0.20	25.18	25.48	62.79	37.31	QP
5	8.916	0.29	0.60	18.72	19.61	60.00	40.39	QP
6	20.162	0.39	0.70	18.96	20.05	60.00	39.95	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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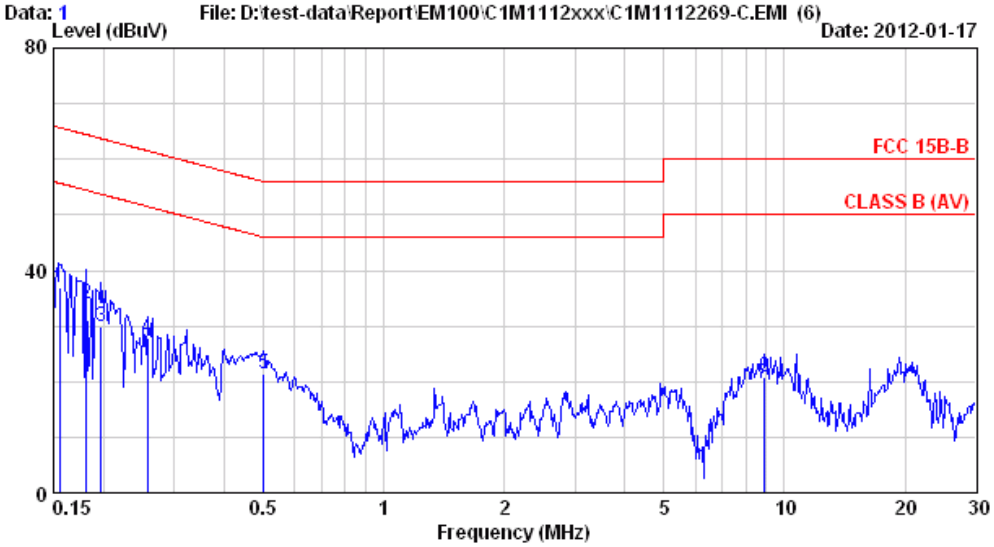

Site : No.3 Shielded Room
Condition : KNW-244C
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337)
EUT : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : Link PC +Cradle (Operating)

Data : 1
Phase : LINE
Engineer: Jasper

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.156	0.14	0.20	36.66	37.00	65.69	28.70	QP
2	0.182	0.11	0.20	33.78	34.09	64.42	30.32	QP
3	0.198	0.10	0.20	29.55	29.85	63.71	33.86	QP
4	0.258	0.10	0.20	27.49	27.79	61.51	33.72	QP
5	0.502	0.10	0.20	21.06	21.36	56.00	34.64	QP
6	8.916	0.37	0.60	19.86	20.83	60.00	39.17	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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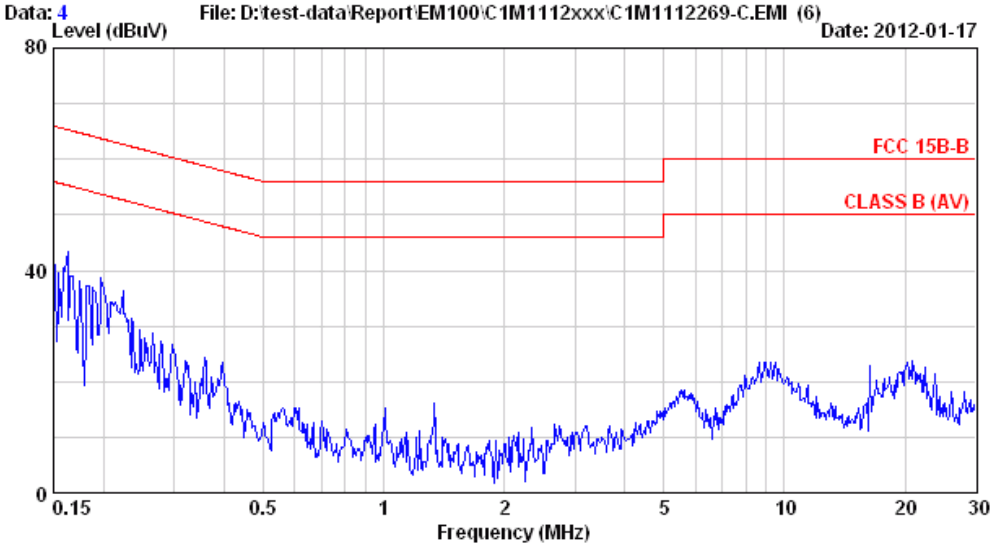

Site	: No.3 Shielded Room	Data	: 4
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C / 52% ESCS 30 (337)	Engineer:	Jasper
EUT	: IPA280-01P1802		
Power Rating	: 120Vac / 60Hz		
Test Mode	: LAN Mode		

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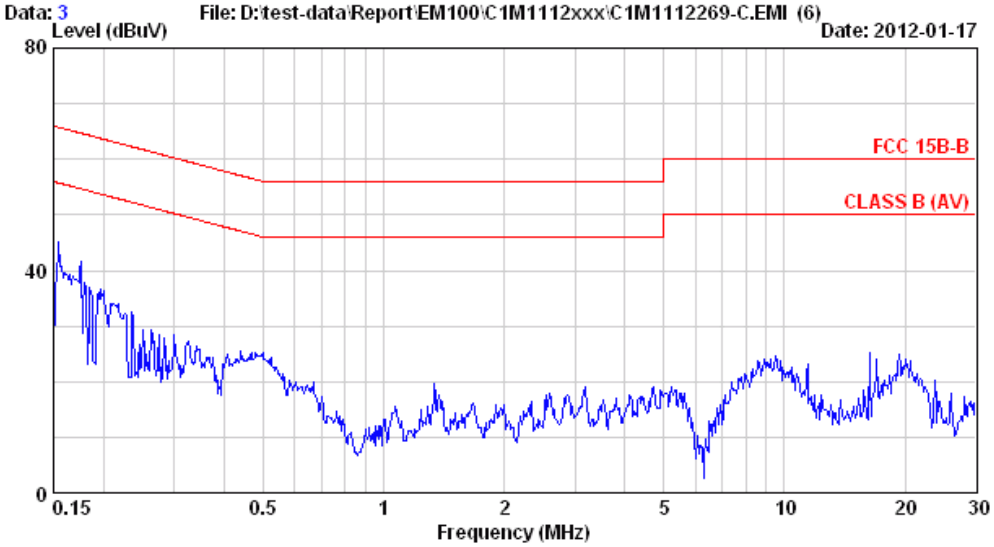

Site	: No.3 Shielded Room	Data	: 3
Condition	: KNW-244C	Phase	: LINE
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C / 52% ESCS 30 (337)	Engineer:	Jasper
EUT	: IPA280-01P1802		
Power Rating	: 120Vac / 60Hz		
Test Mode	: LAN Mode		

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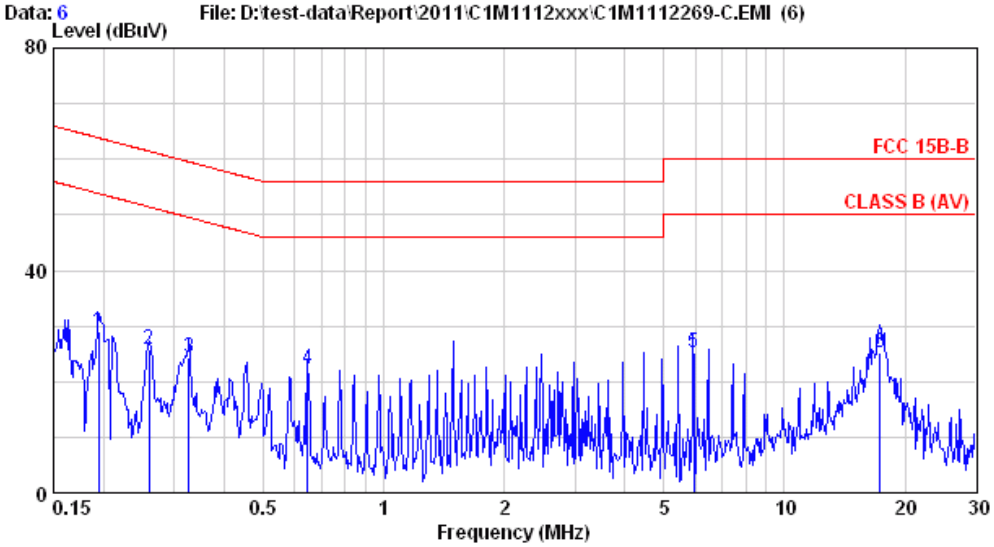


```
Site          : No.3 Shielded Room          Data     : 6
Condition     : KNW-244C                    Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C / 52%  ESCS 30 (337)   Engineer: Jasper
EUT  M/N      : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : LINK PC+EUT ONLY
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.194	0.10	0.20	28.77	29.07	63.84	34.77	QP
2	0.260	0.10	0.20	25.47	25.77	61.42	35.65	QP
3	0.327	0.10	0.20	23.97	24.27	59.53	35.26	QP
4	0.647	0.10	0.20	22.09	22.39	56.00	33.61	QP
5	5.957	0.24	0.60	24.45	25.29	60.00	34.71	QP
6	17.291	0.40	0.70	24.10	25.20	60.00	34.80	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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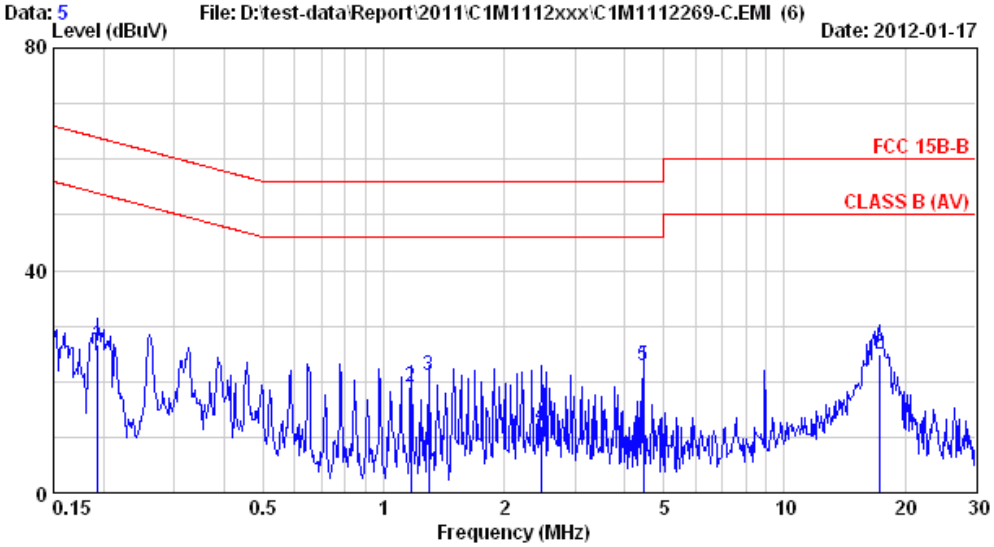

Site : No.3 Shielded Room Data : 5
Condition : KNW-244C Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337) Engineer: Jasper
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LINK PC+EUT ONLY

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.193	0.10	0.20	26.46	26.76	63.89	37.12	QP
2	1.172	0.10	0.40	18.50	19.00	56.00	37.00	QP
3	1.296	0.10	0.40	20.74	21.24	56.00	34.76	QP
4	2.474	0.13	0.40	11.57	12.10	56.00	43.90	QP
5	4.454	0.22	0.60	22.10	22.92	56.00	33.08	QP
6	17.291	0.40	0.70	23.73	24.83	60.00	35.17	QP

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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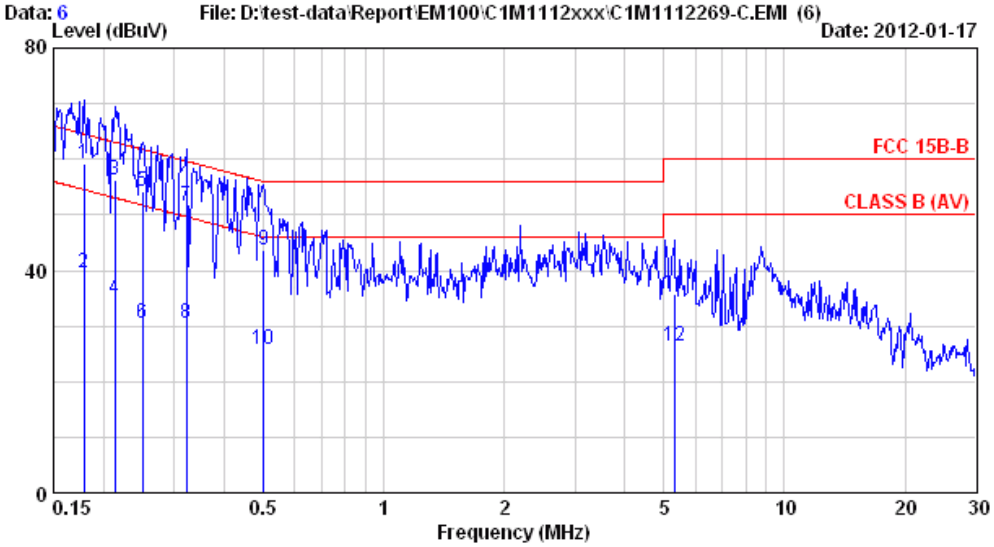

Site : NO.3 Shielded Room
Condition : KNW-244C
Limit : FCC 15B-B
Env. / Ins. : 25*C / 52% ESCS 30 (337)
EUT : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : OPERATING
ADP:DSA-10CU-05

Data : 6
Phase : NEUTRAL
Engineer: Jasper

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.179	0.12	0.20	58.85	59.17	64.55	5.38	QP
2	0.179	0.12	0.20	39.32	39.64	54.55	14.91	AVERAGE
3	0.214	0.10	0.20	55.82	56.12	63.05	6.93	QP
4	0.214	0.10	0.20	34.67	34.97	53.05	18.08	AVERAGE
5	0.251	0.10	0.20	53.95	54.25	61.73	7.48	QP
6	0.251	0.10	0.20	30.04	30.34	51.73	21.39	AVERAGE
7	0.322	0.10	0.20	51.31	51.61	59.66	8.05	QP
8	0.322	0.10	0.20	30.05	30.35	49.66	19.31	AVERAGE
9	0.502	0.10	0.20	43.46	43.76	56.00	12.24	QP
10	0.502	0.10	0.20	25.46	25.76	46.00	20.24	AVERAGE
11	5.305	0.23	0.60	35.03	35.86	60.00	24.14	QP
12	5.305	0.23	0.60	25.58	26.41	50.00	23.59	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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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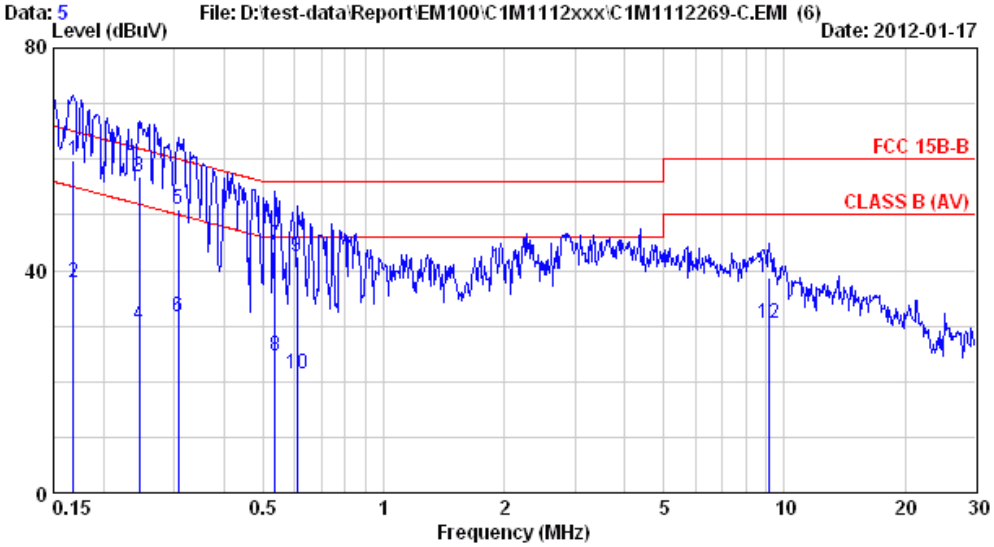


```
Site          : NO.3 Shielded Room          Data     : 5
Condition     : KNW-244C                    Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C / 52%  ESCS 30 (337)   Engineer: Jasper
EUT           : IPA280-01P1802
Power Rating  : 120Vac / 60Hz
Test Mode     : OPERATING
                ADP:DSA-10CU-05
```

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.169	10.05	0.20	49.66	59.91	65.03	5.12	QP
2	0.169	10.05	0.20	27.55	37.80	55.03	17.23	AVERAGE
3	0.246	9.98	0.20	46.72	56.90	61.91	5.00	QP
4	0.246	9.98	0.20	20.09	30.27	51.91	21.63	AVERAGE
5	0.307	9.95	0.20	40.98	51.13	60.06	8.93	QP
6	0.307	9.95	0.20	21.57	31.72	50.06	18.34	AVERAGE
7	0.535	9.88	0.20	34.43	44.51	56.00	11.50	QP
8	0.535	9.88	0.20	14.52	24.60	46.00	21.41	AVERAGE
9	0.608	9.87	0.20	32.50	42.57	56.00	13.44	QP
10	0.608	9.87	0.20	11.23	21.30	46.00	24.71	AVERAGE
11	9.156	9.89	0.60	28.26	38.75	60.00	21.25	QP
12	9.156	9.89	0.60	19.96	30.45	50.00	19.55	AVERAGE

Remarks: 1.Emission Level= AMN Factor + Cable Loss + 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.

For Radiated Emission Measurement

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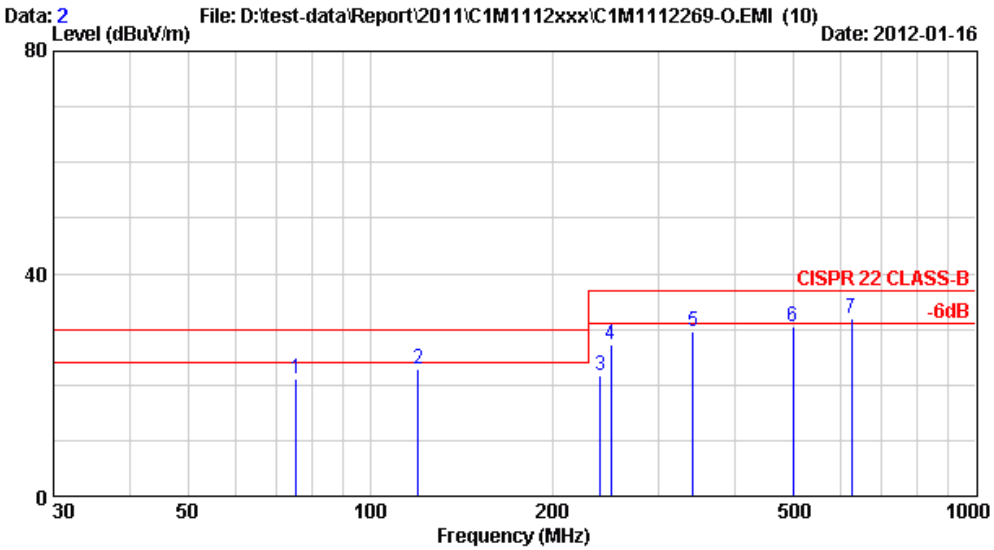

Site no. : Open site NO.3 Data no. : 2
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LINK PC+Cradle(Operating)
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	75.52	14.70	0.99	5.43	21.12	30.00	8.88	
2	119.94	20.62	1.29	0.94	22.85	30.00	7.15	
3	239.93	24.12	1.90	-4.47	21.55	37.00	15.45	
4	249.99	24.31	2.00	0.82	27.13	37.00	9.87	
5	341.96	18.24	2.36	8.86	29.46	37.00	7.54	
6	500.02	20.63	2.88	7.08	30.59	37.00	6.41	
7	624.96	22.61	3.33	5.94	31.88	37.00	5.12	

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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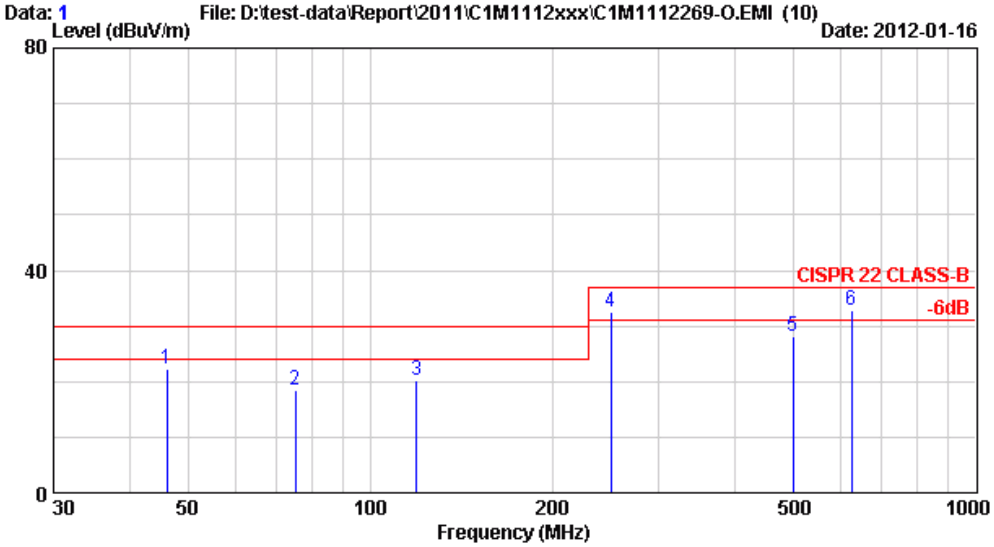

Site no. : Open site NO.3 Data no. : 1
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LINK PC+Cradle(Operating)
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	46.25	19.55	0.75	1.92	22.22	30.00	7.78	
2	75.25	14.69	0.99	2.85	18.52	30.00	11.48	
3	119.25	20.59	1.29	-1.53	20.35	30.00	9.65	
4	250.02	24.31	2.00	6.14	32.45	37.00	4.55	
5	499.93	20.63	2.88	4.50	28.01	37.00	8.99	
6	624.96	22.61	3.33	6.85	32.79	37.00	4.21	

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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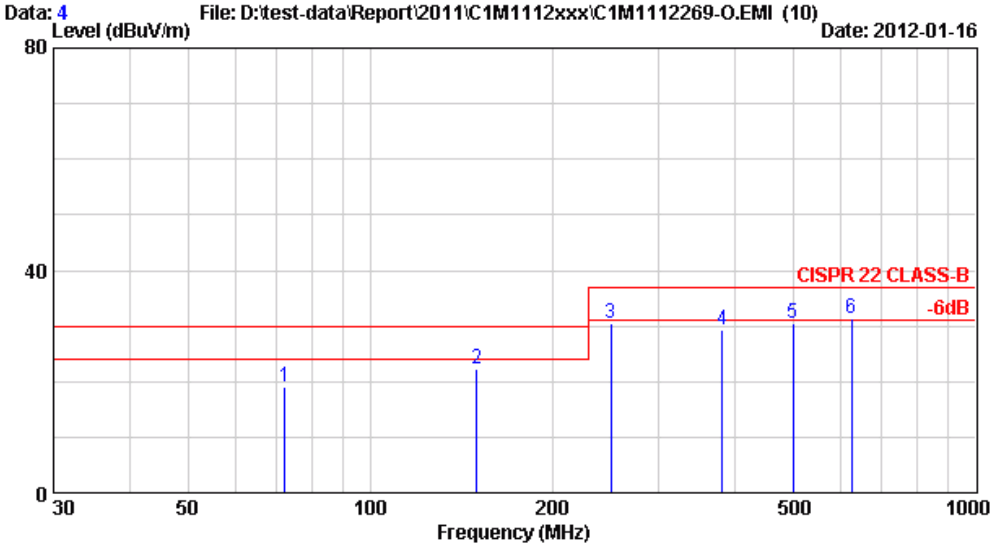

Site no. : Open site NO.3 Data no. : 4
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LAN Mode
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	72.40	14.64	0.99	3.50	19.12	30.00	10.88	
2	150.15	21.60	1.56	-0.83	22.33	30.00	7.67	
3	250.03	24.31	2.00	4.10	30.41	37.00	6.59	
4	382.23	17.55	2.66	9.11	29.32	37.00	7.68	
5	500.04	20.63	2.88	7.04	30.55	37.00	6.45	
6	624.90	22.61	3.33	5.48	31.42	37.00	5.58	

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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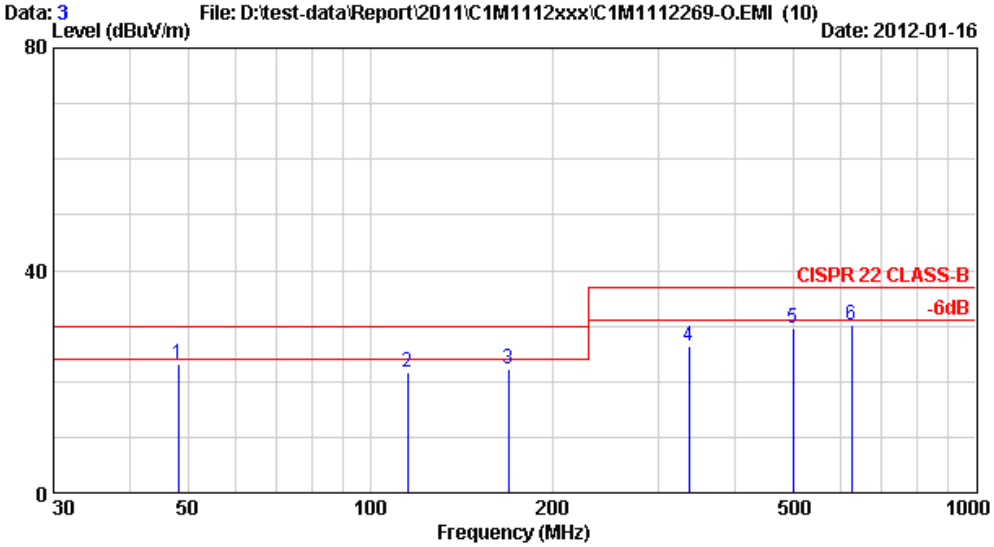

Site no. : Open site NO.3 Data no. : 3
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac / 60Hz
Test Mode : LAN Mode
Adapter:AD7011LF

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	48.24	18.67	0.79	3.69	23.15	30.00	6.85	
2	115.25	20.39	1.28	0.12	21.79	30.00	8.21	
3	169.24	22.26	1.66	-1.56	22.35	30.00	7.65	
4	336.22	18.00	2.36	6.06	26.42	37.00	10.58	
5	500.01	20.63	2.88	6.21	29.72	37.00	7.28	
6	624.95	22.61	3.33	4.38	30.32	37.00	6.68	

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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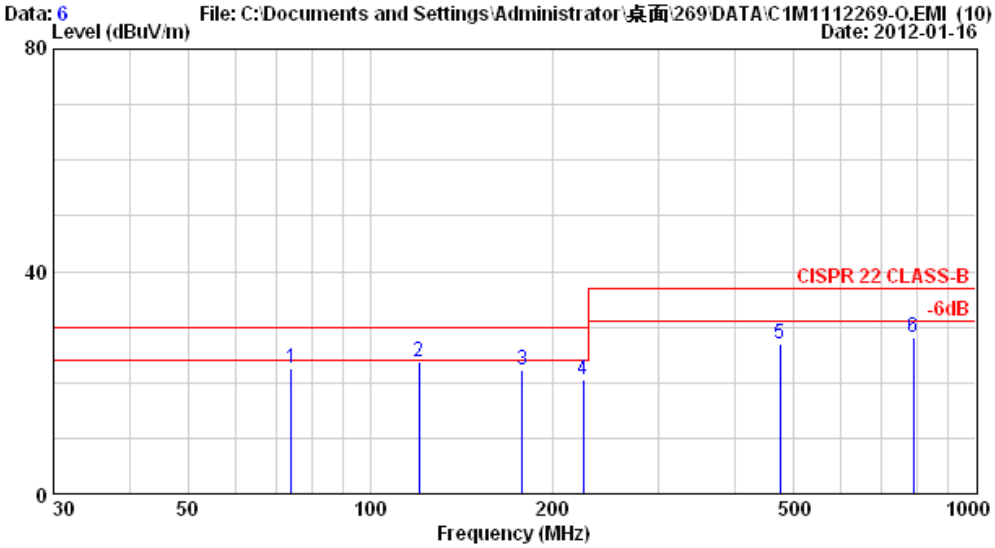


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Site no.      : Open site NO.3              Data no.   : 6
Dis. / Ant.   : 10m  VBA6106A/UPA6109(10)   Ant. pol.  : HORIZONTAL
Limit         : CISPR 22 CLASS-B
Env. / Ins.   : 16*C / 55% ESVS 10 (018)    Engineer   : TIM
EUT  M/N      : IPA280-01P1802
Power Rating  : 120Vac/60Hz
Test Mode     : LINK PC + EUT ONLY
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	74.155	14.67	0.99	6.93	22.58	30.00	7.42	
2	120.354	20.65	1.29	1.93	23.88	30.00	6.12	
3	178.445	22.59	1.63	-2.00	22.22	30.00	7.78	
4	225.012	23.75	1.84	-5.04	20.54	30.00	9.46	
5	475.545	20.35	2.88	3.67	26.90	37.00	10.10	
6	789.659	24.56	3.71	-0.01	28.25	37.00	8.75	

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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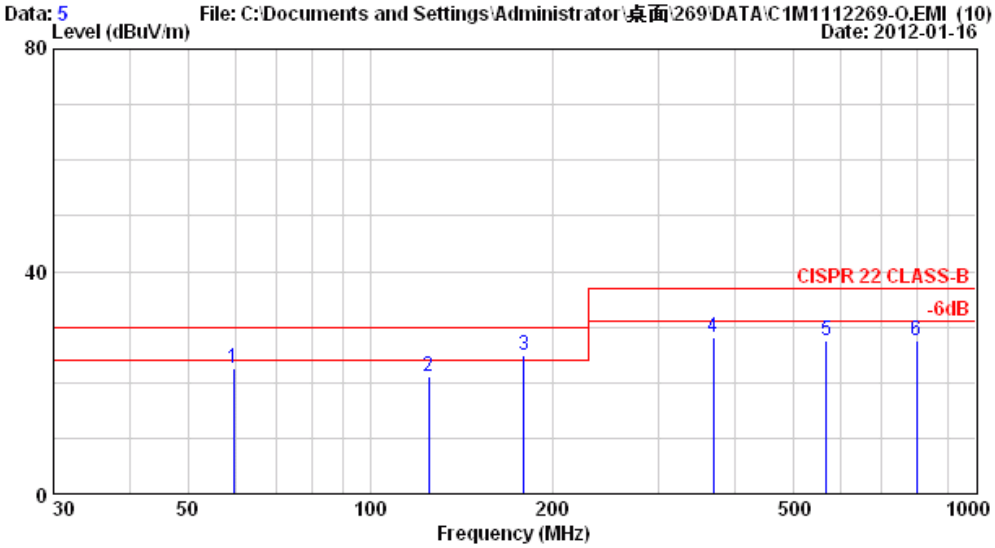

Site no. : Open site NO.3 Data no. : 5
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac/60Hz
Test Mode : LINK PC + EUT ONLY

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	59.488	15.99	0.97	5.62	22.59	30.00	7.41	
2	125.033	21.20	1.33	-1.29	21.24	30.00	8.76	
3	179.459	22.65	1.63	0.60	24.88	30.00	5.12	
4	369.215	18.52	2.50	7.13	28.15	37.00	8.85	
5	567.542	21.43	3.21	2.81	27.44	37.00	9.56	
6	799.527	24.73	3.76	-1.02	27.47	37.00	9.53	

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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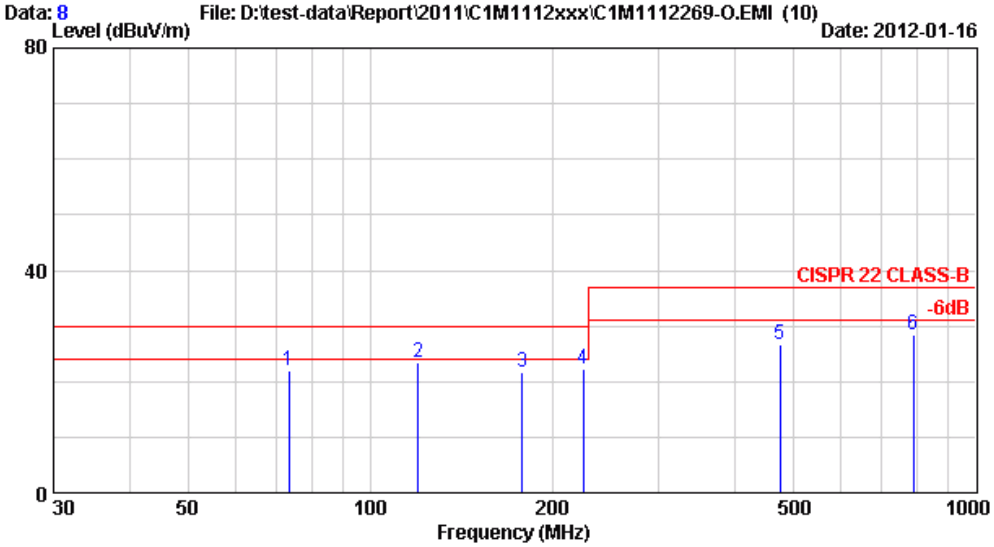

Site no. : Open site NO.3 Data no. : 8
Dis. / Ant. : 10m VBA6106A/UPA6109(10) Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 16*C / 55% ESVS 10 (018) Engineer : TIM
EUT M/N : IPA280-01P1802
Power Rating : 120Vac/ 60Hz
Test Mode : Operating
Adapter:DSA-10CU-05 050200

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	73.53	14.67	0.99	6.26	21.91	30.00	8.09	
2	120.11	20.65	1.29	1.54	23.49	30.00	6.51	
3	178.23	22.59	1.63	-2.56	21.66	30.00	8.34	
4	225.01	23.75	1.84	-3.39	22.20	30.00	7.80	
5	475.88	20.35	2.88	3.32	26.54	37.00	10.46	
6	789.16	24.56	3.71	0.23	28.50	37.00	8.50	

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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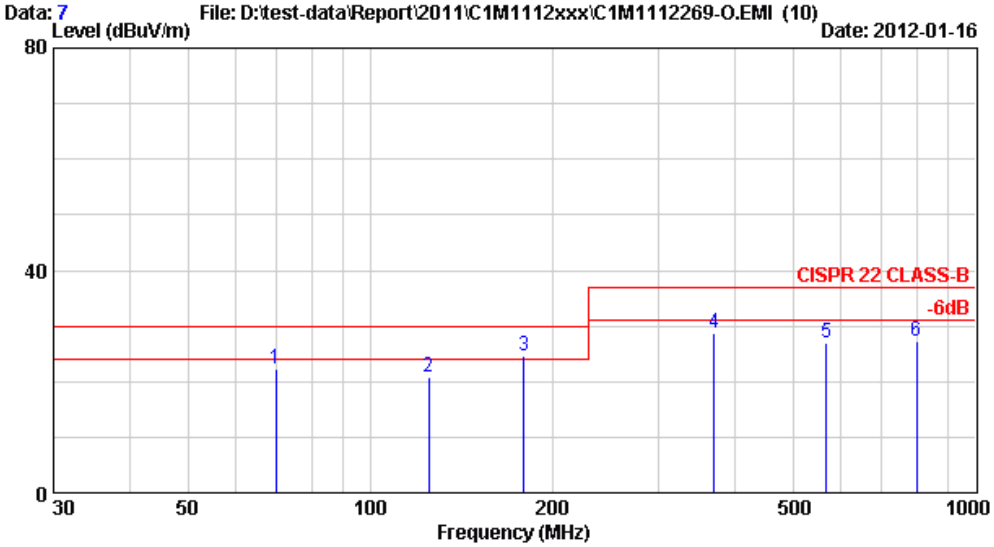


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Site no.      : Open site NO.3              Data no.   : 7
Dis. / Ant.   : 10m  VBA6106A/UPA6109(10)   Ant. pol.  : VERTICAL
Limit         : CISPR 22 CLASS-B
Env. / Ins.   : 16*C / 55% ESVS 10 (018)    Engineer   : TIM
EUT  M/N      : IPA280-01P1802
Power Rating  : 120Vac/  60Hz
Test Mode     : Operating
                Adapter:DSA-10CU-05 050200
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	69.81	14.74	0.99	6.40	22.13	30.00	7.87	
2	125.00	21.20	1.33	-1.63	20.89	30.00	9.11	
3	179.74	22.67	1.63	0.42	24.73	30.00	5.27	
4	369.54	18.52	2.52	7.60	28.64	37.00	8.36	
5	567.44	21.43	3.21	2.43	27.07	37.00	9.93	
6	799.60	24.73	3.76	-1.17	27.32	37.00	9.68	

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

APPENDIX II

(Photos of EUT)

Total Pages: 26 Pages

Figure 1
General Appearance (Front View)

Figure 2
General Appearance (Back View)

Figure 3
General Appearance (Side View)

Figure 4
General Appearance (Side View)

Figure 5
General Appearance (Side View)

Figure 6
General Appearance (Side View)

Figure 7
Internal View (Removed Back Cover)

Figure 8
Internal View (Removed Battery)

Figure 9
Internal View

Figure 10
Internal View

Figure 11
Internal View

Figure 12
Internal View

Figure 13
Internal View

Figure 14
Internal View (Removed Cover)

Figure 15
Internal View

Figure 16
Internal View

Figure 17
Internal View

Figure 18
Internal View

Figure 19
Internal View (Main Board, Front View)

Figure 20
Internal View (Main Board, Front View)

Figure 21
Internal View (USB Connect, Front View)

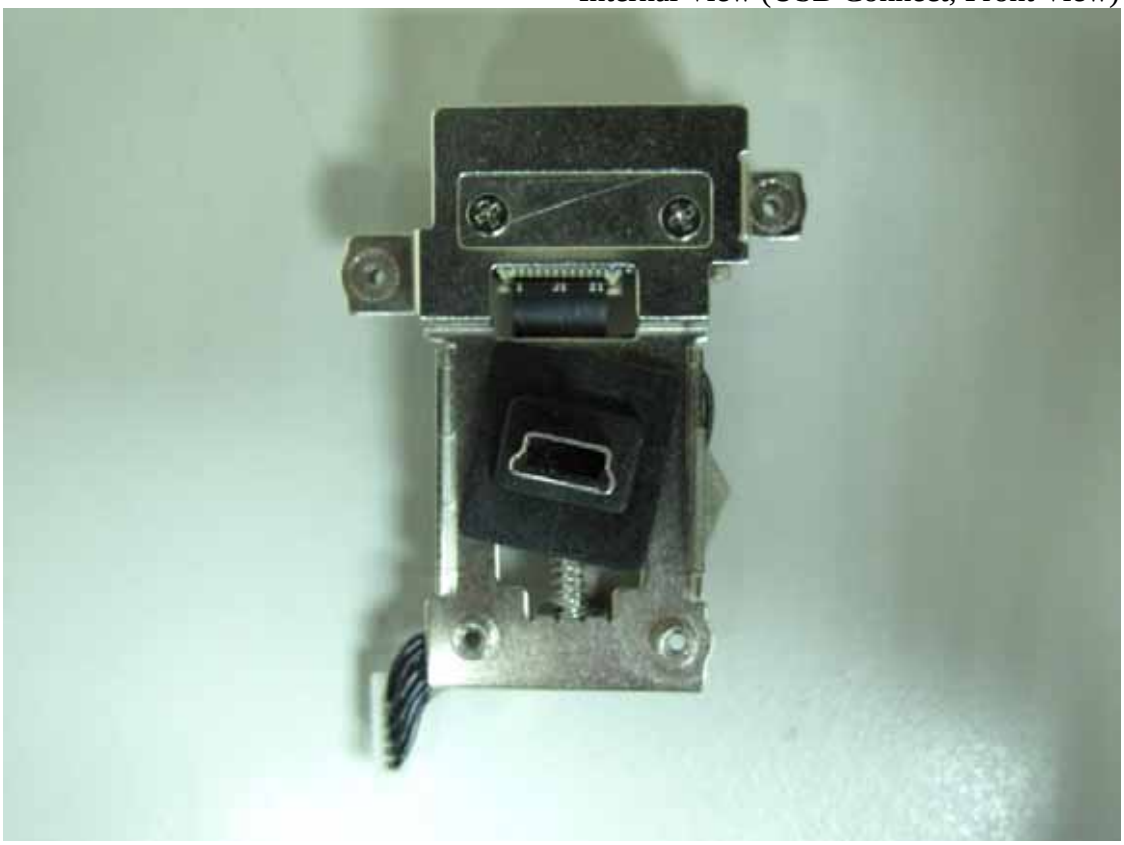

Figure 22
Internal View (USB Connect, Back View)

Figure 23
Internal View (Main Board, Front View)

Figure 24
Internal View (Main Board, Front View)

Figure 25
Internal View (Module, Front View)

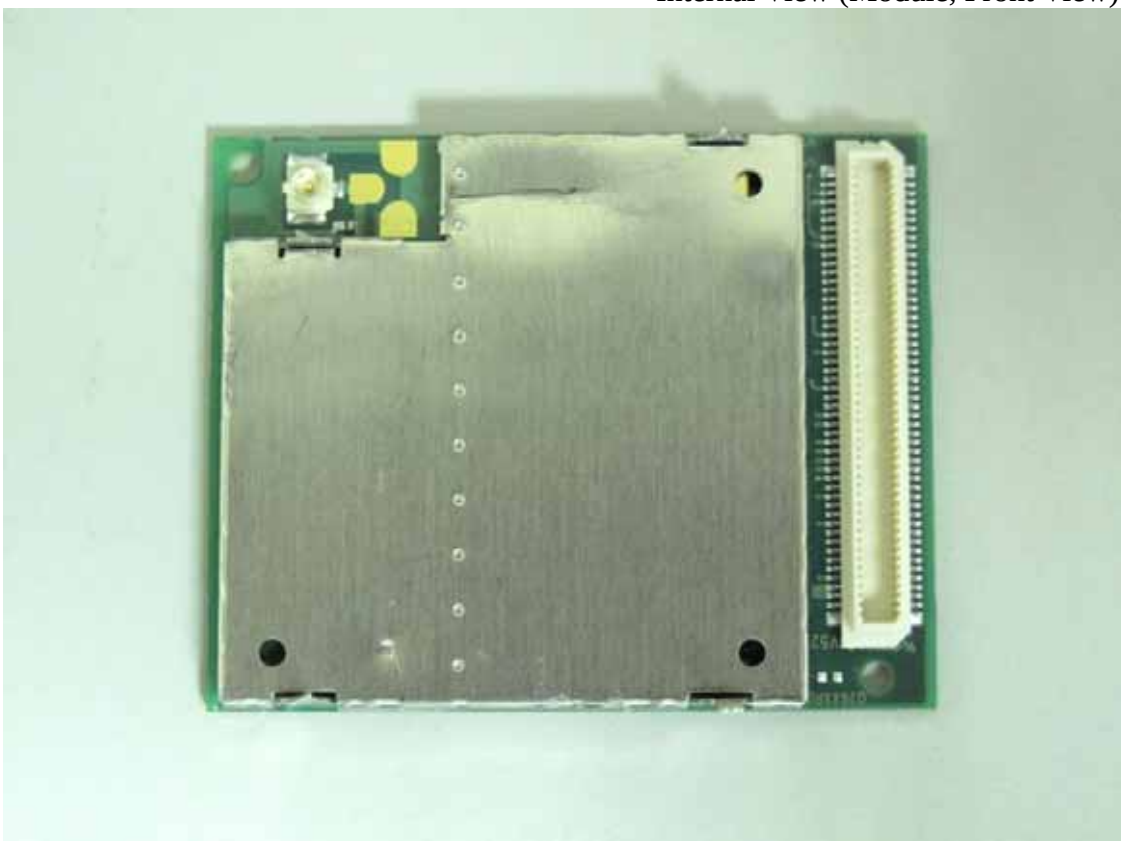

Figure 26
Internal View (Module, Front View)

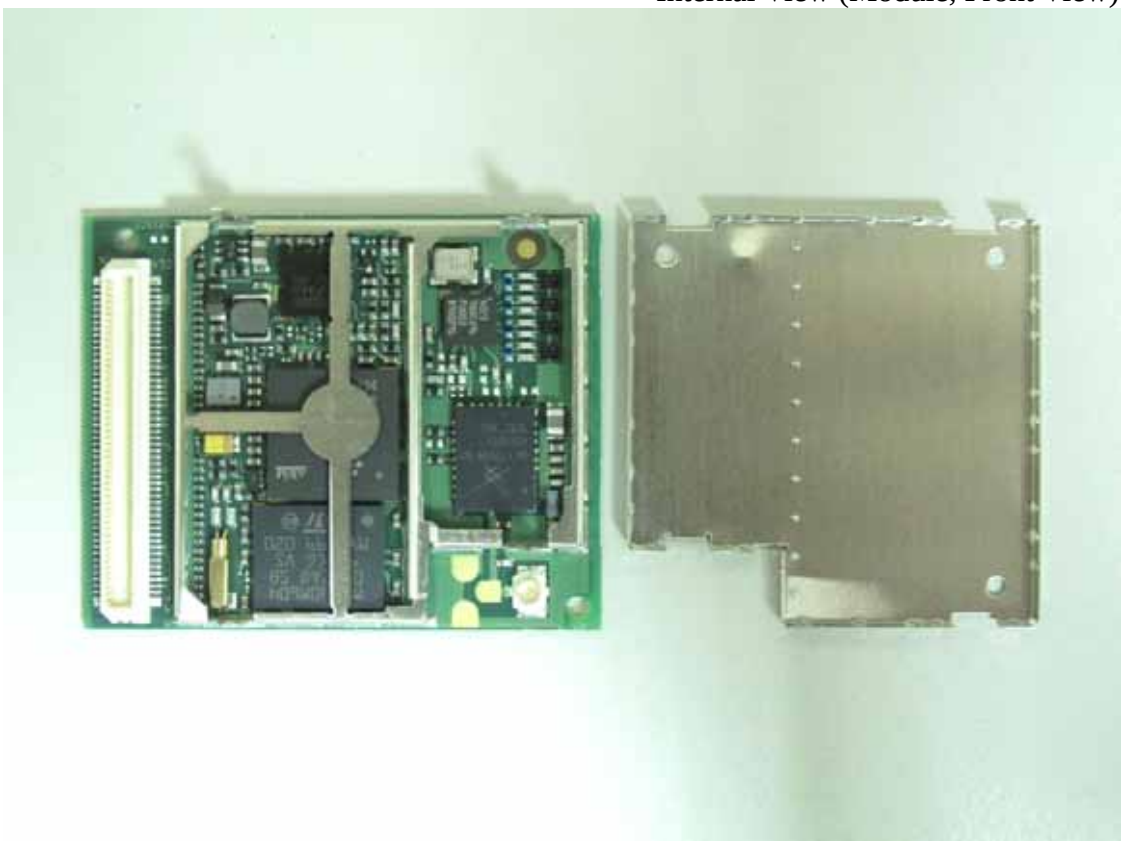

Figure 27
Internal View (Module, Front View)

Figure 28
Internal View (Module, Front View)

Figure 29
Internal View (Module, Label View)

Figure 30
Internal View (Main Board, Front View)

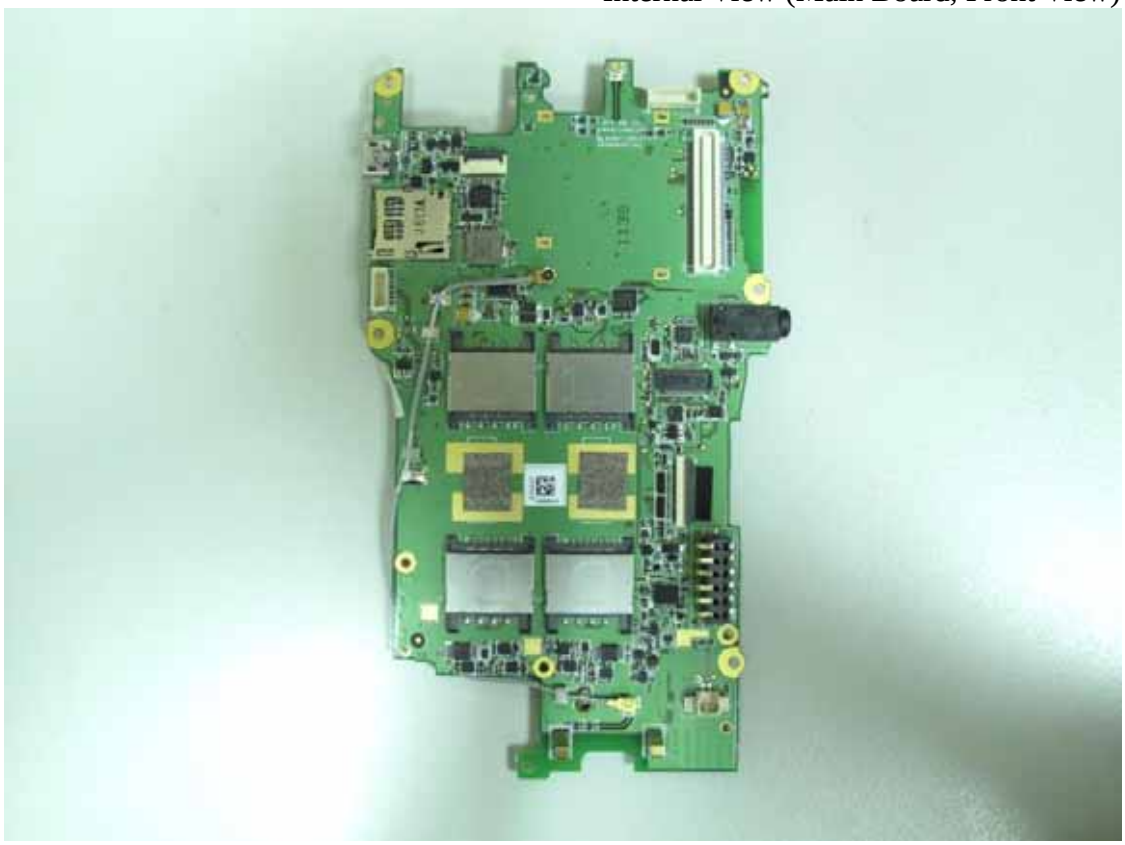

Figure 31
Internal View (Main Board, Front View)

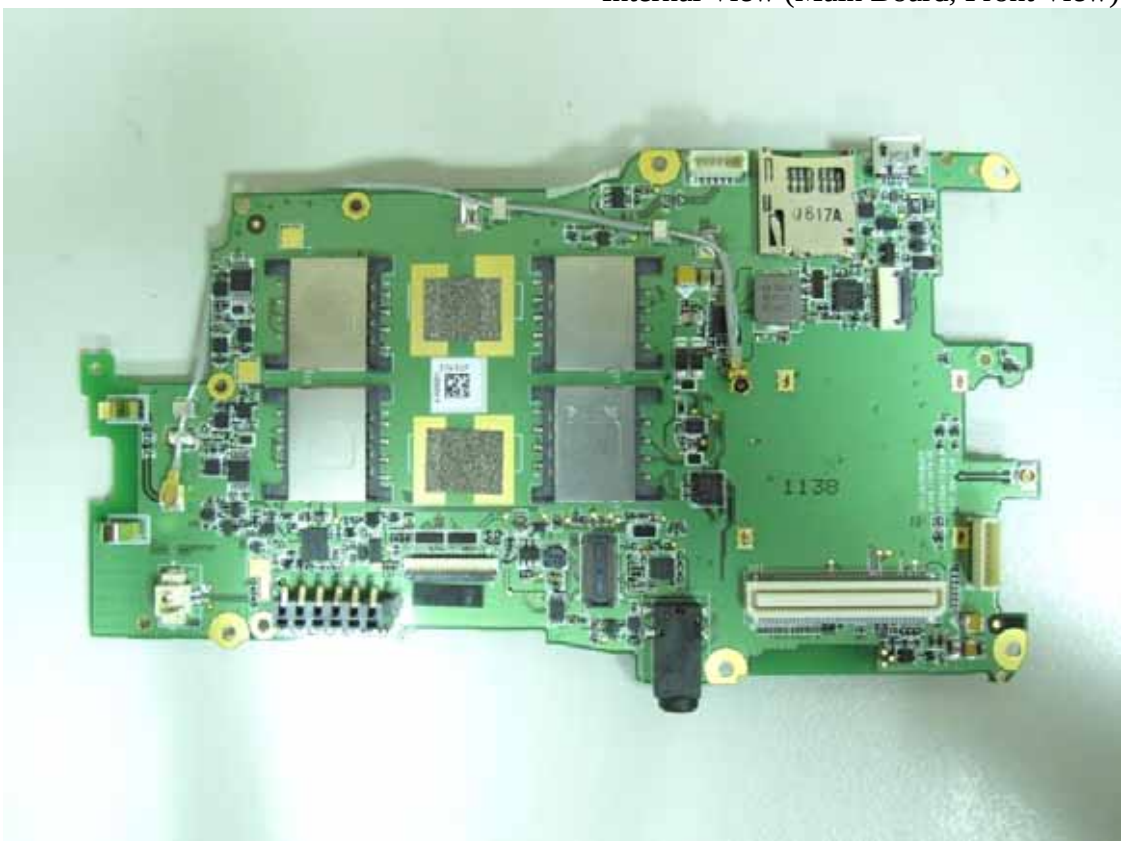

Figure 32
Internal View (Main Board, Back View)

Figure 33
Internal View (Main Board, Back View and Removed LCD Panel)

Figure 34
Internal View (Main Board, Back View)

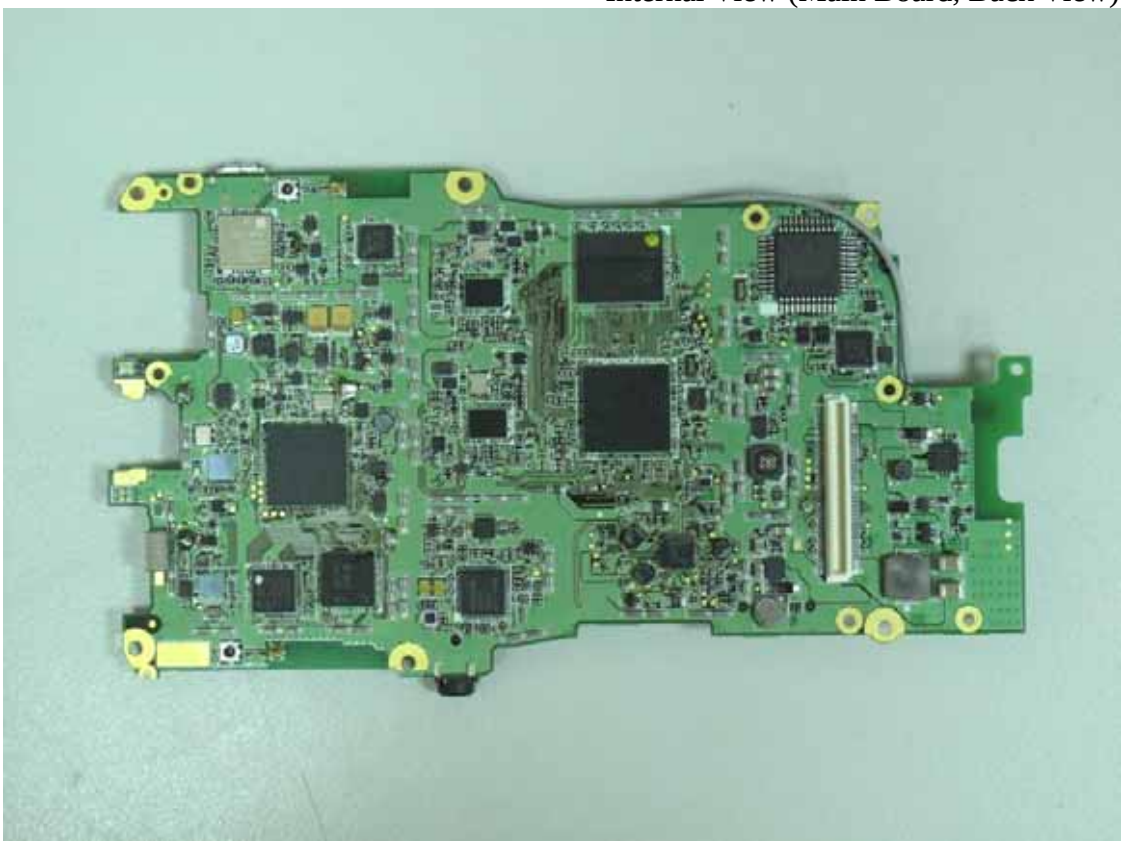

Figure 35
Internal View

Figure 36
Internal View

Figure 37
Internal View

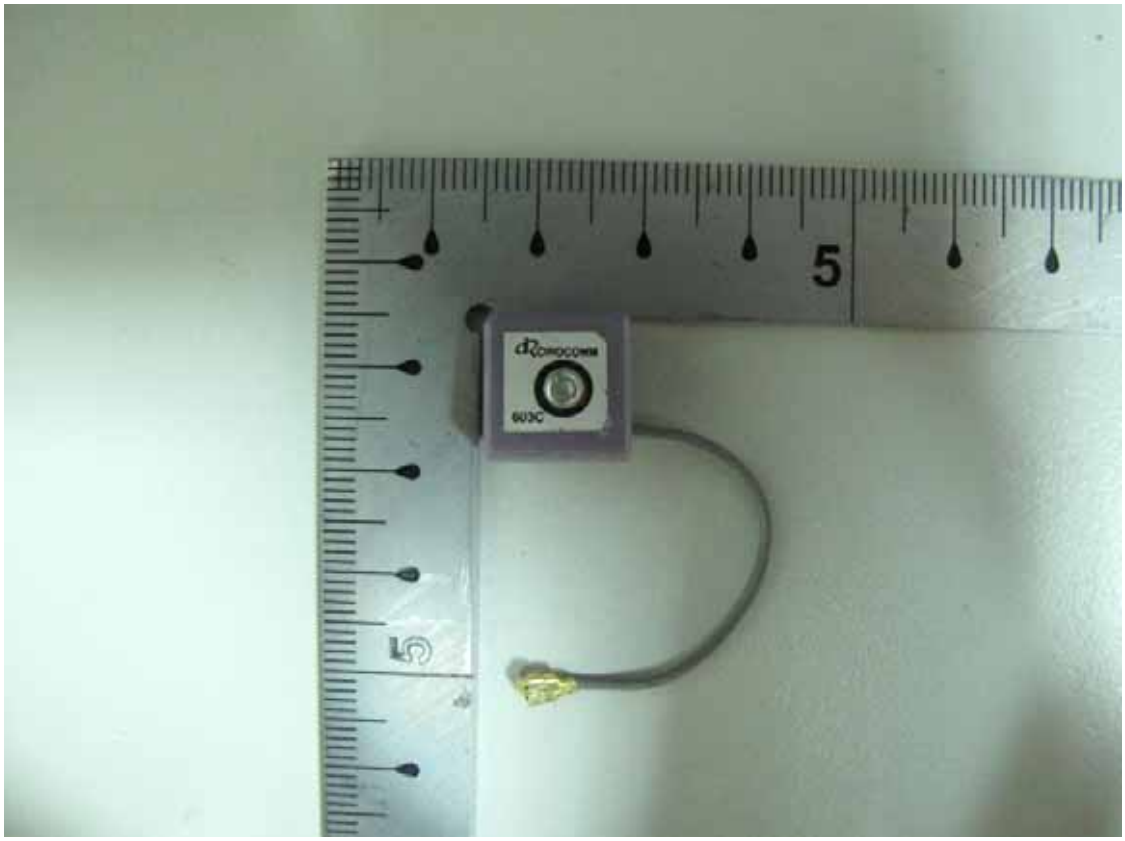

Figure 38
Internal View

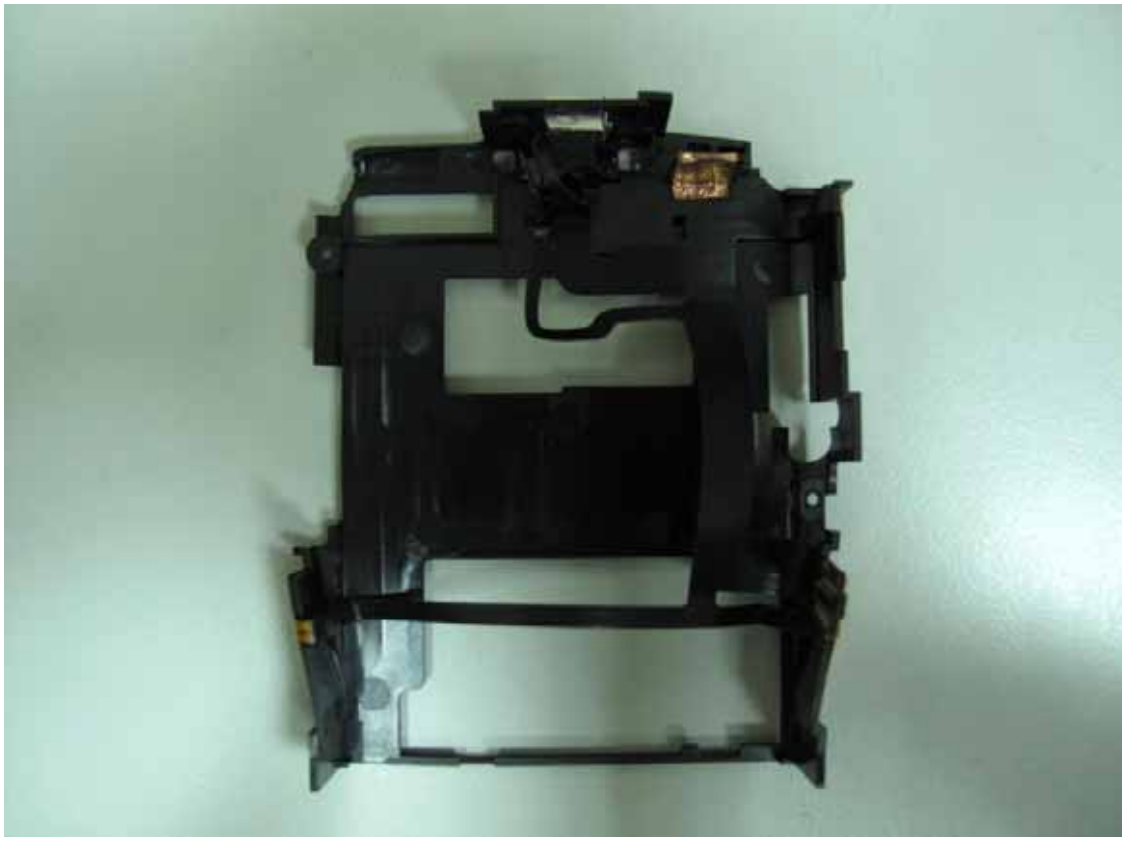

Figure 39
Internal View

Figure 40
Internal View (LCD Panel, Back View)

Figure 41
Internal View (LCD Panel, Front View)

Figure 42
Internal View

Figure 43
Internal View

Figure 44
Internal View

Figure 45
Internal View

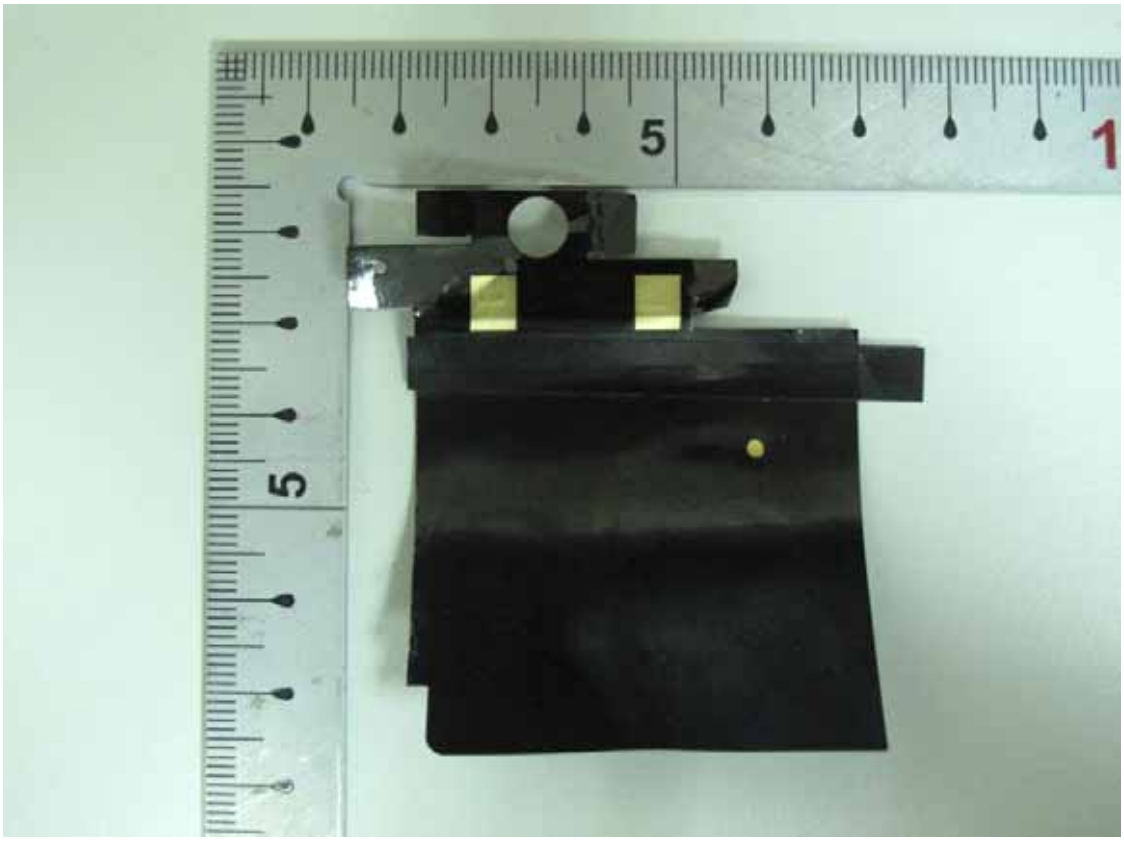

Figure 46
Internal View

Figure 47
Internal View (Removed Button Control Board)

Figure 48
Internal View (Button Control Board, Front View)

Figure 49
Internal View (Button Control Board, Back View)

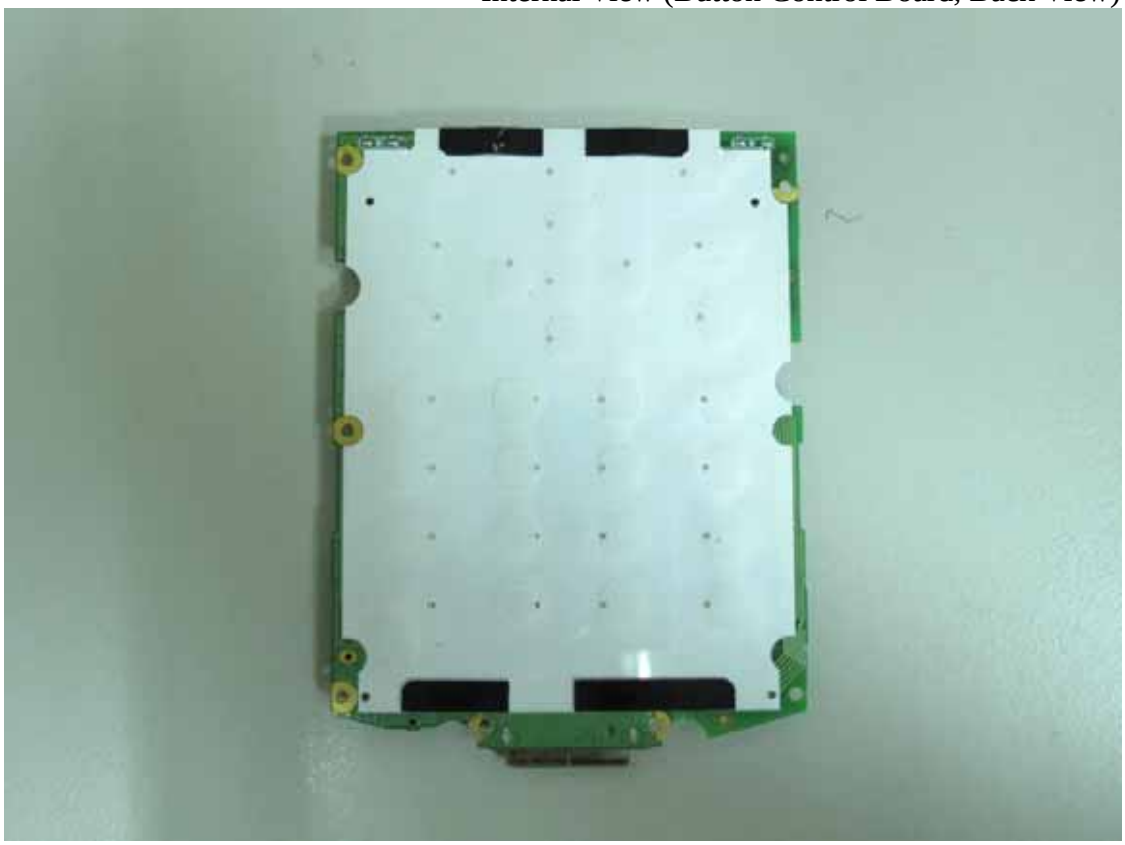

Figure 50
Internal View (Button Control Board, Back View)

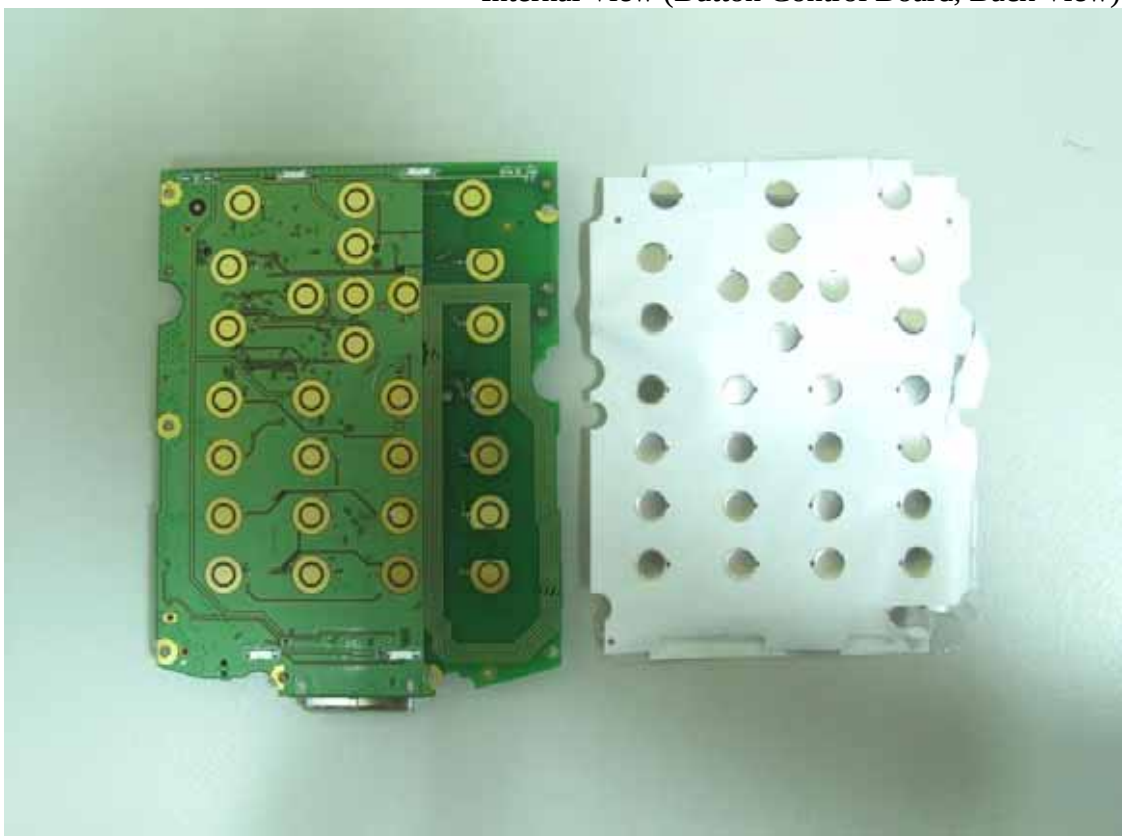

Figure 51
Internal View (Button Control Board, Back View)