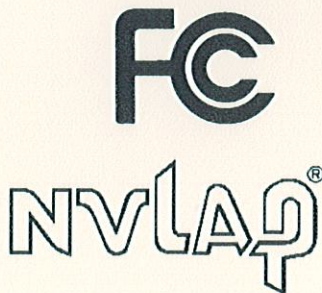


Verification of Compliance

Product Name : POC-100 Series
Model Number : POC-100RK
Applicant : Neousys Technology Inc.
Address : 15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist.,
New Taipei City, 23586, Taiwan
Report Number : F-U070-1302-289
Issue Date : June 11, 2013

Applicable Standards : FCC Part 15, Subpart B Class A ITE
ANSI C63.4:2009
Industry Canada ICES-003 Issue 5
CSA-IEC CISPR22-10 Class A ITE

One sample of the designated product has been tested in our laboratory and found to be in compliance with the FCC rules cited above.



NVLAP LAB CODE 200575-0

TAF 0905
FCC CAB Code TW1053
IC Code 4699A
VCCI Accep. No. R-1527, C-1609, T-1441, G-10,
T-1334, G-10, G-614



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A handwritten signature in black ink, appearing to read 'T. Y. Shih'.

(Tsun-Yu Shih/ General Manager)

Date: June 11, 2013

FCC Test Report

for

POC-100 Series

Model No. : POC-100RK
Report Number : F-U070-1302-289
Date of Receipt : March 4, 2013
Date of Report : June 11, 2013

Prepared for

Neousys Technology Inc.

15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist., New Taipei City, 23586, Taiwan

Prepared by



Central Research Technology Co.
EMC Test Laboratory

11, Lane 41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.



NVLAP LAB CODE 200575-0

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Verification of Compliance

Equipment Under Test : POC-100 Series
Model No. : POC-100RK
Applicant : Neousys Technology Inc.
Address : 15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist.,
New Taipei City, 23586, Taiwan
Applicable Standards : **FCC Part 15, Subpart B Class A ITE**
ANSI C63.4:2009
Industry Canada ICES-003 Issue 5
CSA-IEC CISPR22-10 Class A ITE
Date of Testing : March 4~May 27, 2013
Deviation : N/A
Condition of Test Sample : Engineering Sample



We, **Central Research Technology Co.**, hereby certify that one sample of the designated product was tested in our facility during the period mentioned above. The test records, data evaluation and Equipment Under Test (EUT) configurations shown in the present report are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in the present report is in compliance with the requirements set forth in the standards mentioned above and apply to the tested sample identified in the present report only. The test report shall not be reproduced, except in its entirety, without the written approval of Central Research Technology Co.

PREPARED BY : Rosa Hsieh , **DATE** : June 11, 2013
(Rosa Hsieh/System Executive)
APPROVED BY : J. Y. Shih , **DATE** : June 11, 2013
(Tsun-Yu Shih/General Manager)

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1. General Description

1.1 General Description of EUT

Equipment Under Test : POC-100 Series
Model No. : POC-100RK
Power in : Supplied by the power adapter.
Power adapter specification : Trade Name : LIEN CHANG
Model No. : LCAP07F
Input : 100-240Vac, 50-60Hz, 1.0A
Output : 12Vdc, 3.0A
Highest Operating Frequency : 1.8GHz from the test specification
Manufacturer : Neosys Technology Inc.
Function Description :
The EUT is an engineering sample of the POC-100 Series. Please refer to the user's manual for the details.

The I/O ports of EUT are listed below:

No.	I/O Port Type	Quantity
1	D-Sub port	1
2	USB port	3
3	Com. port	2
4	LAN port	2
5	Audio output port	1

The specifications of the EUT (supplied by manufacturer) are listed below:

POC-100 Series Specifications

System Core		Power Supply	
Processor	Intel® Atom™ D525 1.8GHz dual-core processor	DC Input	Built-in 8~25 VDC DC input
Chipset	Intel® ICH8-M I/O Control Hub	Input Connector	1x 2-pin pluggable terminal block for DC input(POC-100BK) 1x DC jack (ø2.5) for AC/DC adapter input(POC-100RK)
Graphics	Integrated Intel® GMA 3150 graphics		
Memory	On-board soldered 2GB DDR3 800MHz SDRAM	Mechanical	
Panel I/O Interface		Dimension	149mm (W) x 105 mm (H) x 44 mm (D)
Ethernet	2x Gigabit Ethernet ports by Intel® I210	Weight	1.0 kg (including one 2.5" HDD)
Video Port	1x DB-15 connector for VGA output, supporting 2048 x 1536 resolution	Mounting	Wall-mounting (standard) or DIN-Rail mounting (optional)
Serial Port	1x software-programmable RS-232/422/485 (COM1) 1x RS-232 (COM2)	Environmental	
USB	3x USB 2.0 ports	Operating Temperature	-20°C ~ 60°C with SSD or mSATA, 100% CPU loading */** -10°C ~ 50°C with HDD, 100% CPU loading */**
Audio	1x Speaker-out	Storage Temperature	-40°C ~85°C
Internal I/O Interface		Humidity	10%~90% , non-condensing
Serial Port	1x optional software-programmable RS-232/422/485 (COM3) 1x optional RS-232 (COM4)	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, w/o add-on card, according to IEC60068-2-64)
Mini PCIe	1x mini PCI Express slot with USIM socket	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, w/o add-on card, according to IEC60068-2-27)
LVDS	1x 18-bit LVDS output with backlight control, supporting 1366 x 768 resolution	EMC	CE/FCC Class A, according to EN 55022 & EN 55024
Storage Interface		* The CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria, please contact Neosys Technology ** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.	
SATA HDD	1x SATA ports with 2.5" HDD/SSD bracket		
mSATA	1x mSATA socket		

1.2 Test Mode

Normal operating as the specification of manufacturer.

The EUT was tested with display mode: D-Sub 1024x768 @60Hz.

1.3 Applied standards

According to the specifications of the manufacturer and the requirements set in 47CFR Part 15, the applied standards to evaluate the compliance of the EUT are as following, and the measurement procedures specified in ANSI C63.4: 2009 are performed.

According to 47CFR Part 15 Section 15.33(b), the test frequency range of radiated emission measurements are listed below and the EUT herein shall be tested as:

Type of EUT	Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
☐	Below 1.705	30
☐	1.705 - 108	1000
☐	108 - 500	2000
☐	500 - 1000	5000
☒	Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

All the test items are as following:

Applied Standards	Test Items	Results
FCC Part 15, Subpart B Class A ITE	☒ Conducted Emission Measurement	<u>PASS</u>
	☒ Radiated Emission Measurement	<u>PASS</u>

1.4 Test Setup for the EUT

The EUT is an unique unit connected with other necessary accessories and support units listed in the next section. It has been tested against each standard after the following setup steps:

- a. Connect the EUT and all the support units to the appropriate power source.
- b. Turn on the EUT and all the accessories and support units.
- c. Install an EMC test software into EUT and execute it under the Windows environment.
- d. The EUT sends “H” patterns to the monitor, which fills the whole screen of it.
- e. The EUT sends messages to the modems.
- f. The EUT reads/writes messages from/to the USB 2.0 HDD/USB Flash Disk continually.
- g. The EUT sends 1kHz audio signal to the earphone.
- h. Another PC sends/ receives messages to/ from the EUT through a Hub by executing the command of “PING”.
- i. Repeat and keep the setup steps listed above before and during all tests.

EUT I/O ports / Peripherals	Exerciser Program (software)	Version of Program
EUT	BurnIn Test.exe	V 6.0
Monitor		
USB 2.0 HDD/ USB Flash Disk		
Modem		

1.5 The Support Units

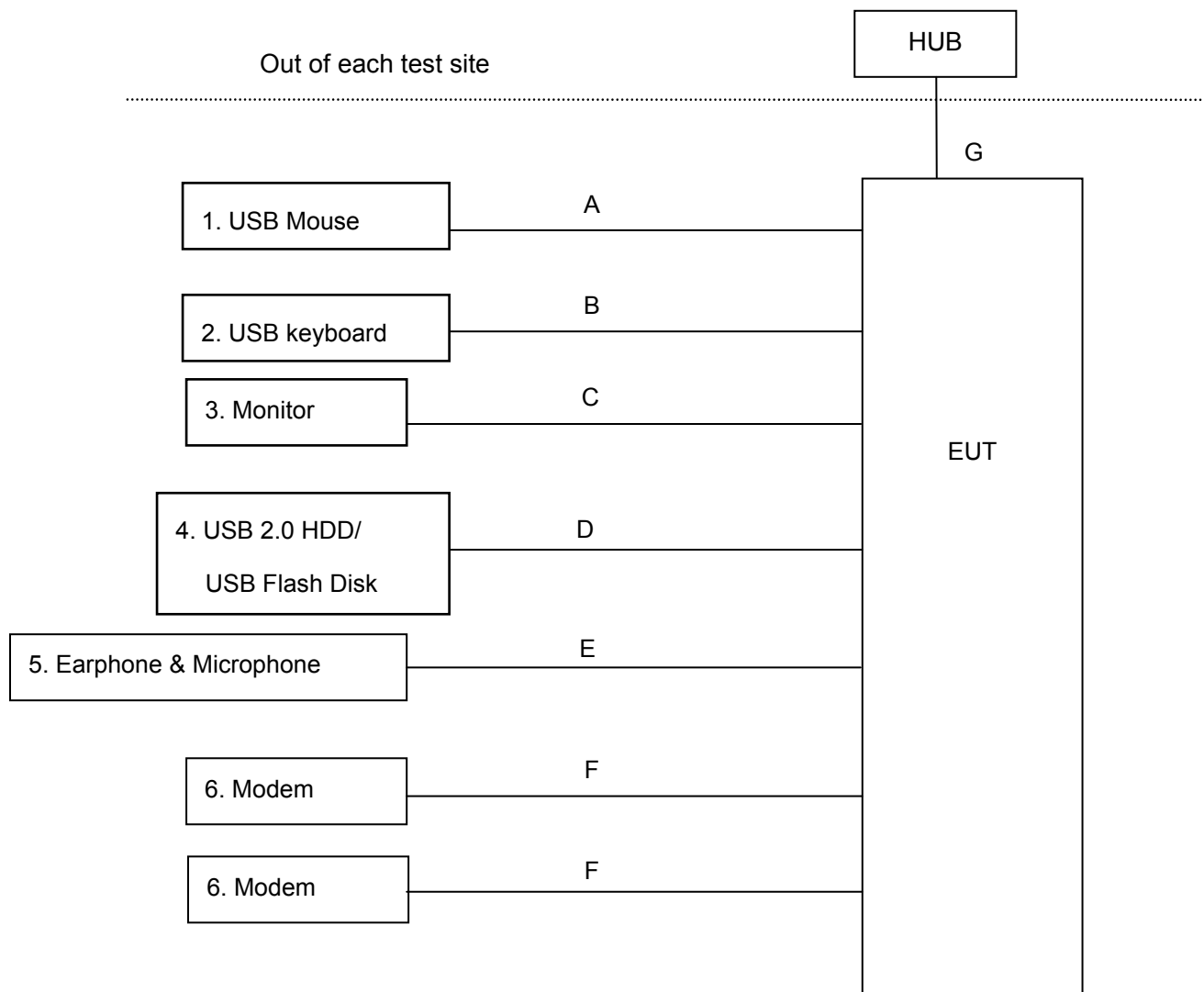
Conducted Emission Test

No.	Unit	Model No.	FCC ID	Trade Name	Power Cord	Supported by lab.
1	USB Mouse	MO56UC	DoC	DELL	N/A	✓
2	USB Keyboard	SK-8115	DoC	DELL	N/A	✓
3	Monitor	U2410	DoC	DELL	1.8m	✓
4	USB 2.0 HDD	320G FreeAgent Go	DoC	Seagate	N/A	✓
5	Earphone & Microphone	CW-010M.V	N/A	i-Acom	N/A	✓
6	Modem	DM-1414	IFAXDH1414	ACEEX	1.9m	✓

Radiated Emission Test

No.	Unit	Model No.	FCC ID	Trade Name	Power Cord	Supported by lab.
1	USB Mouse	MS111-P	N/A	DELL	N/A	✓
2	USB Keyboard	KU-0355	DoC	DELL	N/A	✓
3	Monitor	U2410	DoC	DELL	1.8m	✓
4	USB 2.0 HDD	500G FreeAgent Go	DoC	Seagate	N/A	✓
5	Earphone & Microphone	EPM-662	N/A	i-gota	N/A	✓
6	Modem	DM-1414	IFAXDH1414	ACEEX	1.9m	✓

1.6 Layout of the Setup



Connecting Cables :

No.	Cable	Length	Shielded	Core	Shielded Backshell	Supported by lab.	Note
A	USB Mouse Cable	1.8m	✓			✓	
B	USB Keyboard Cable	2.0m	✓			✓	
C	VGA Cable	1.7m	✓	✓		✓	2Cores
D	USB Cable	1.2m	✓			✓	
E	Earphone & Microphone Cable	1.8m	✓			✓	
F	Modem Cable	1.8m	✓	✓		✓	2Cores
G	LAN Cable	>3m				✓	floating

1.7 Test Capability

Test Facility

The test facility used for evaluating the conformance of the EUT with each standard in the present report meets what required in CISPR16-1-4, CISPR16-2-3 and ANSI C63.4: 2009.

Test Room	Type of Test Room	Descriptions
TR1	10m semi-anechoic chamber (23m × 14m × 9m)	Complying with the NSA and the site VSWR requirements in documents CISPR 22 and ANSI C63.4: 2009. for the radiated emission measurement.
TR1	3m fully-anechoic chamber (23m × 14m × 9m)	
TR11	3m semi-anechoic chamber (9m × 6m × 6m)	Complying with the NSA requirements in documents CISPR 22 for the radiated emission measurement.
TR5	Shielding Room (8m × 5m × 4m)	For the conducted emission measurement.
TR4	Shielding Room (5m×3m×3m)	

Test Laboratory Competence Information

Central Research Technology Co. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation Certificate	USA	NVLAP	200575-0	ISO/IEC 17025
	R.O.C. (Taiwan)	TAF	0905	ISO/IEC 17025
	R.O.C. (Taiwan)	BSMI	SL2-IN-E-0033, SL2-IS-E-0033, SL2-R1/R2-E-0033, SL2-A1-E-0033, SL2-L1-E-0033	ISO/IEC 17025
Site Filing Document	USA	FCC	474046,TW1053	Test facility list & NSA Data
	Canada	IC	4699A-1,-3	Test facility list & NSA Data
	Japan	VCCI	R-1527,C-1609, C-4400, T-1441, T-1334, G-10, G-614	Test facility list & NSA Data
Authorization Certificate	Germany	TUV	10021687	ISO/IEC 17025
	Norway	Nemko	ELA 212	ISO/IEC 17025

The copy of each certificate can be downloaded from our web site: www.crc-lab.com

2. Conducted Emission Measurement

Test Result : PASS

2.1 Limits for Emission Measurement

☒ Limits for conducted disturbances at the power mains

Frequency (MHz)	Class A Equipment		Class B Equipment	
	Quasi-peak (dB μ V)	Average (dB μ V)	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 to 0.5	79	66	66 – 56	56 – 46
0.5 to 5	73	60	56	46
5 to 30	73	60	60	50

Note 1- The lower limit shall apply at the transition frequency.
Note 2- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz for Class B equipment.

2.2 Test Instruments

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
Test Receiver	R&S	ESCS 30/ 836858/021	Jan. 14, 2013	Jan. 14, 2014
LISN	R&S	ESH2-Z5/ 836613/001	June 5, 2012	June 5, 2013
2 nd LISN	R&S	ENV4200/ 833209/010	March 29, 2013	March 29, 2014
50Ω terminator	N/A	N/A/ 001	Aug. 20, 2012	Aug. 20, 2013
RF Switch	R&S	RSU28/ 338965/002	Feb. 19, 2013	Aug. 19, 2013
RF Cable	N/A	N/A/ C0052 ~ 56	Feb. 19, 2013	Aug. 19, 2013
Test Software	Audix	e3/ Ver. 5.2004-2-19k	NCR	NCR
TR5 shielded room	ETS LINDGREN	TR5/ 15353-F	NCR	NCR

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.

Measurement Uncertainty

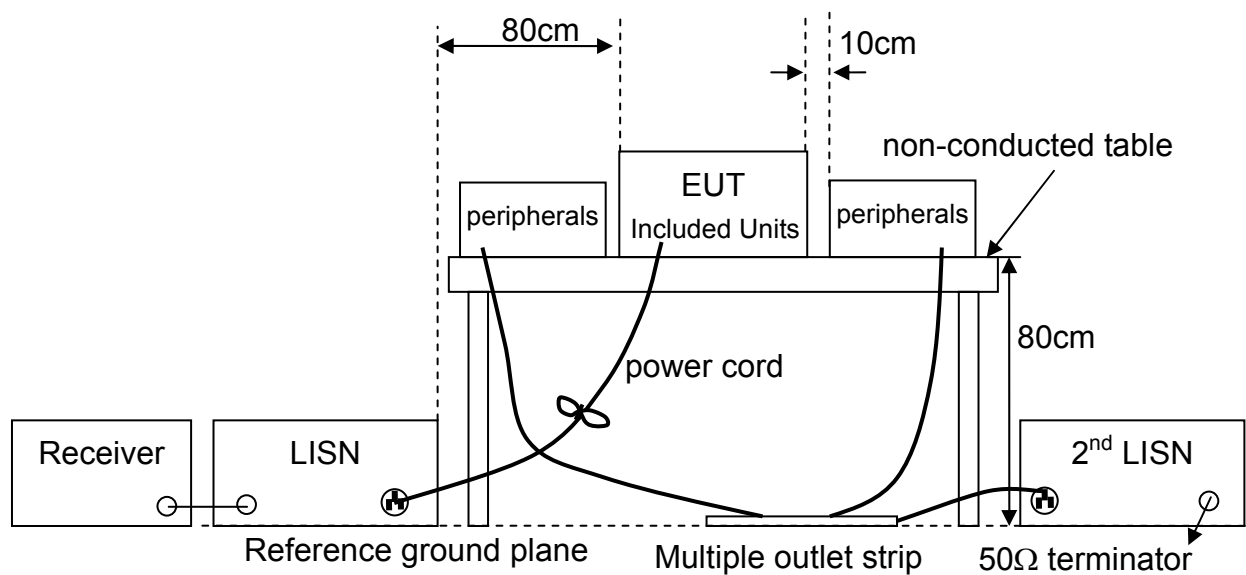
The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cisprr} in table 1 of CISPR 16-4-2.

Equipment	Model Number	Uncertainty Value
LISN	ESH2-Z5	3.1dB
	ENV 4200	2.7dB

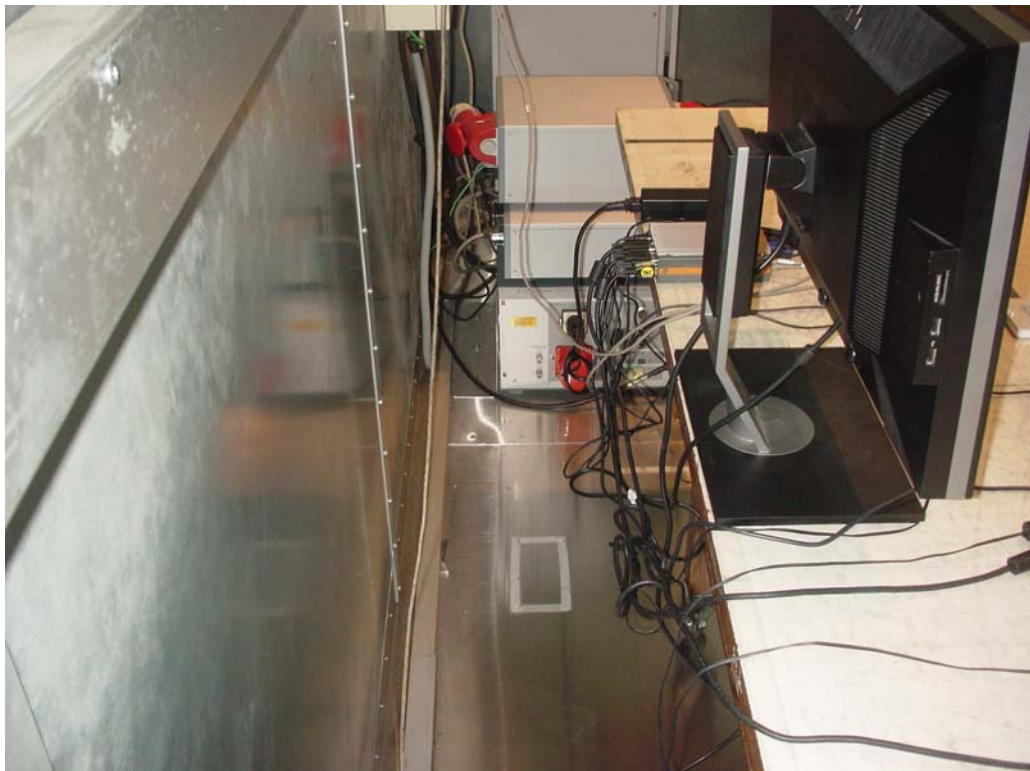
2.3 Test Procedures

- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane and 0.4 meters from the conducting wall of the shielded room. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane.
- c. Connect the EUT's power source to the appropriate power mains through the LISN.
- d. All the other peripherals are connected to the 2nd LISN, if any.
- e. The LISN was placed 0.8 meters from the EUT and at least 0.8 meters from other units and other metal planes.
- f. Measure the conducted emissions on each power line (Neutral Line and Line 1 – Hot side) of the EUT's power source by using the test receiver connected to the coupling RF output port of LISN.
- g. Rapidly scan the signal from 150kHz to 30MHz by using the receiver through the Maximum-Peak detector to determine those frequencies associated with higher emission levels for each measured line.
- h. Then measure the maximum level of conducted disturbance for each frequency found from step g. by using the receiver through the Quasi-Peak and Average detectors per CISPR 16-1.
- i. Record the level for each frequency and compare with the required limit.

2.4 Test Configurations

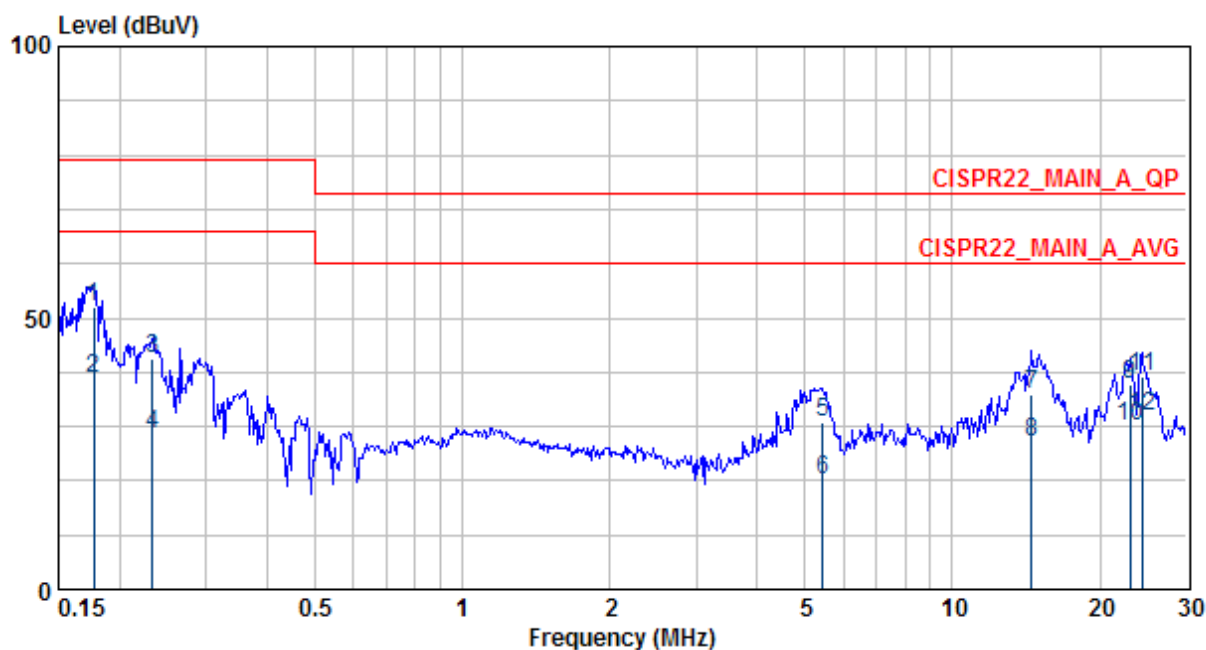


2.5 Photographs of the Test Configurations



2.6 Test Results

Test Mode : Normal
Test Voltage : 120V/60Hz to the power adapter
Tester : Mathew **Temperature** : 25°C
Humidity : 71%RH **Frequency Range** : 150kHz~30MHz
IF Bandwidth : 9kHz **Phase** : Line

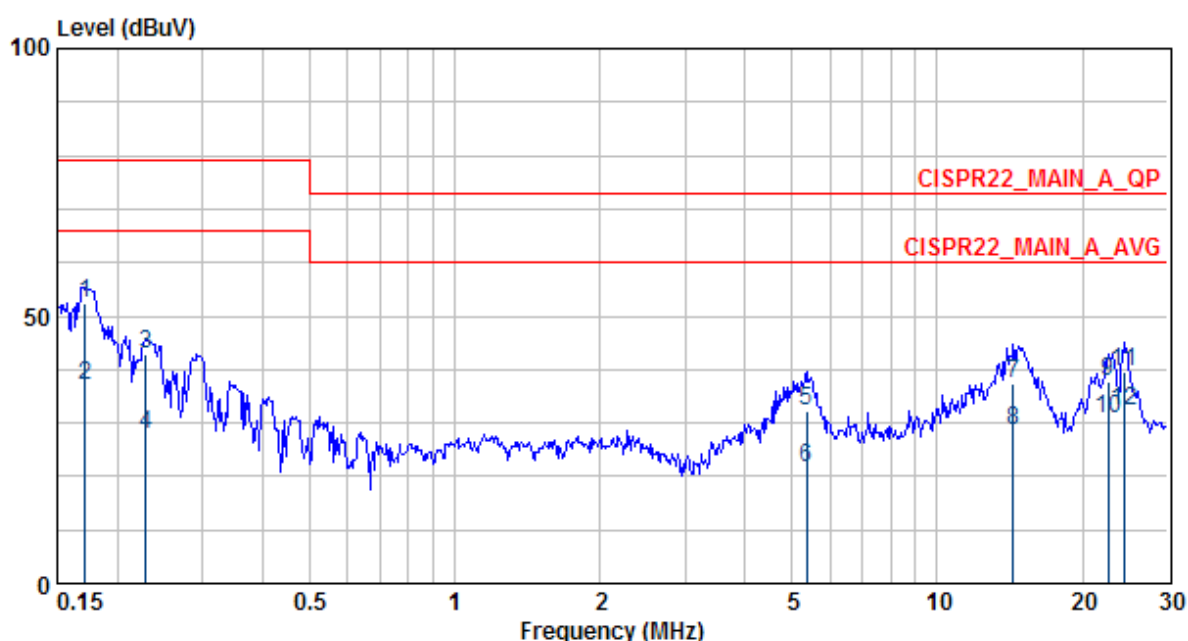


	Freq	Level	Factor	Read	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase	Remark
1	0.177	52.15	0.28	51.87	79.00	-26.85	LINE	QP
2	0.177	38.67	0.28	38.39	66.00	-27.33	LINE	AVERAGE
3	0.233	42.34	0.29	42.05	79.00	-36.66	LINE	QP
4	0.233	28.71	0.29	28.42	66.00	-37.29	LINE	AVERAGE
5	5.445	30.91	0.53	30.38	73.00	-42.09	LINE	QP
6	5.445	20.24	0.53	19.71	60.00	-39.76	LINE	AVERAGE
7	14.518	36.02	0.70	35.32	73.00	-36.98	LINE	QP
8	14.518	27.13	0.70	26.43	60.00	-32.87	LINE	AVERAGE
9	23.019	37.58	0.56	37.02	73.00	-35.42	LINE	QP
10	23.019	30.16	0.56	29.60	60.00	-29.84	LINE	AVERAGE
11	24.400	39.05	0.49	38.56	73.00	-33.95	LINE	QP
12	24.400	31.75	0.49	31.26	60.00	-28.25	LINE	AVERAGE

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

Test Mode : Normal
Test Voltage : 120V/60Hz to the power adapter
Tester : Mathew **Temperature** : 25°C
Humidity : 71%RH **Frequency Range** : 150kHz~30MHz
IF Bandwidth : 9kHz **Phase** : Neutral



	Freq	Level	Factor	Read	Limit	Over		
	MHz	dBuV	dB	Level	Line	Limit	Pol/Phase	Remark
				dBuV	dBuV	dB		
1	0.172	52.36	0.18	52.18	79.00	-26.64	NEUTRAL	QP
2	0.172	36.97	0.18	36.79	66.00	-29.03	NEUTRAL	AVERAGE
3	0.229	42.70	0.17	42.53	79.00	-36.30	NEUTRAL	QP
4	0.229	27.73	0.17	27.56	66.00	-38.27	NEUTRAL	AVERAGE
5	5.363	32.38	0.45	31.93	73.00	-40.62	NEUTRAL	QP
6	5.363	21.66	0.45	21.21	60.00	-38.34	NEUTRAL	AVERAGE
7	14.365	37.46	0.91	36.55	73.00	-35.54	NEUTRAL	QP
8	14.365	28.58	0.91	27.67	60.00	-31.42	NEUTRAL	AVERAGE
9	22.656	37.80	1.21	36.59	73.00	-35.20	NEUTRAL	QP
10	22.656	30.83	1.21	29.62	60.00	-29.17	NEUTRAL	AVERAGE
11	24.529	39.38	1.24	38.14	73.00	-33.62	NEUTRAL	QP
12	24.529	32.26	1.24	31.02	60.00	-27.74	NEUTRAL	AVERAGE

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

3. Radiated Emission Measurement

Test Result : PASS

3.1 Limits for Emission Measurement

☒ Limits for radiated disturbances below 1000MHz

Frequency (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1000	49.5	54
Note 1- The lower limit shall apply at the transition frequency.		
Note 2- Additional provisions may be required for cases where interference occurs.		
Note 3- According to 15.109(g), as an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the standards (CISPR), Pub. 22 shown as below.		
30 to 230	40	30
230 to 1000	47	37

☒ Limits for radiated disturbances above 1000MHz at a measuring distance of 3m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dB μ V/m)	Average (dB μ V/m)	Peak (dB μ V/m)	Average (dB μ V/m)
1 to 40	80	60	74	54

3.2 Test Instruments

☒ Below 1GHz measurement

Test Site and Equipment	Manufacturer	Model No./ Serial No.	Last Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESCS 30/ 836858/020	Sept. 10, 2012	Sept. 10, 2013
Broadband Antenna	R&S	HL-562/ 360543/007	March 29, 2013	March 29, 2014
Broadband Antenna	R&S	HL-562/ 830547/010	April 30, 2013	April 30, 2014
Pre-Amplifier	Mini Circuit	ZKL-2/ 001	Jan. 15, 2013	July 15, 2013
Pre-Amplifier	Mini Circuit	ZKL-2/ 002	Jan. 15, 2013	July 15, 2013
Spectrum Analyzer	R&S	FSP7/ 100108	June 13, 2012	June 13, 2013
Spectrum Analyzer	R&S	FSP7/ 100384	Jan. 10, 2013	Jan. 10, 2014
RF Cable	JYEBAO	0214/ C0049	Jan. 15, 2013	July 15, 2013
RF Cable	JYEBAO	0214/ C0050	Jan. 15, 2013	July 15, 2013
Test Software	Audix	e3/ Ver. 4.3.714.e	NCR	NCR
TR1 Semi - anechoic Chamber	ETS. LINDGREN	TR1/ 17627-B	May 4, 2013	May 4, 2014

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the chamber TR1 listed above is the date of NSA measurement.

☒ Above 1GHz measurement

Test Site and Equipment	Manufacturer	Model No./ Serial No.		Last Calibration Date	Calibration Due Date
Horn Antenna	EMCO	3117/ 00082847		March 5, 2013	March 5, 2014
Bore-sight Antenna Mast	Sunol	TLT2/ 051110-5		NCR	NCR
Pre-Amplifier	KMIC	☐	KMA010180A01/ 99056	Oct. 19, 2012	Oct. 19, 2013
	MITEQ	☒	JS4-00101800- 28-5A /742229	Dec. 14, 2012	Dec. 14, 2013
		☒	JS4-00101800- 28-5A/742309	Dec. 14, 2012	Dec. 14, 2013
Spectrum Analyzer	R&S	FSP40/ 100031		July 11, 2012	July 11, 2013
RF Cable	Suhner	Sucoflex 106P / C0091 + C0092		April 17, 2013	Oct. 17, 2013
Test Software	Audix	e3/ Ver. 4.3.714.e		NCR	NCR
TR1 Fully - anechoic Chamber	ETS. LINDGREN	TR1/ 17627-B		Feb. 23, 2013	Feb. 23, 2014

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the chamber TR1 listed above is the date of site VSWR measurement.

Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

Test Site (Measuring distance)	Polarization	Frequency Range	
		30MHz ~200MHz	200MHz ~1000MHz
TR1(10m)	Horizontal	3.2dB	3.5dB
	Vertical	3.3dB	3.6dB
TR11(3m)	Horizontal	3.8dB	4.1dB
	Vertical	3.3dB	3.7dB

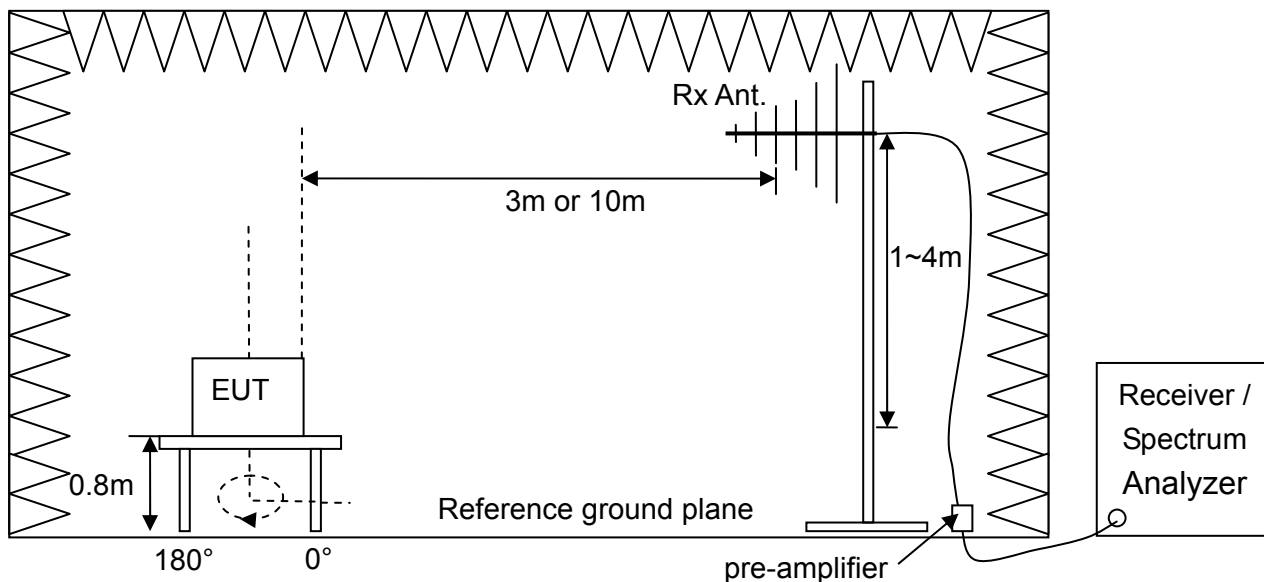
Test Site (Measuring distance)	Polarization	Frequency Range
		1GHz ~18GHz
TR1(3m)	Horizontal	4.0dB
	Vertical	3.9dB

3.3 Test Procedures

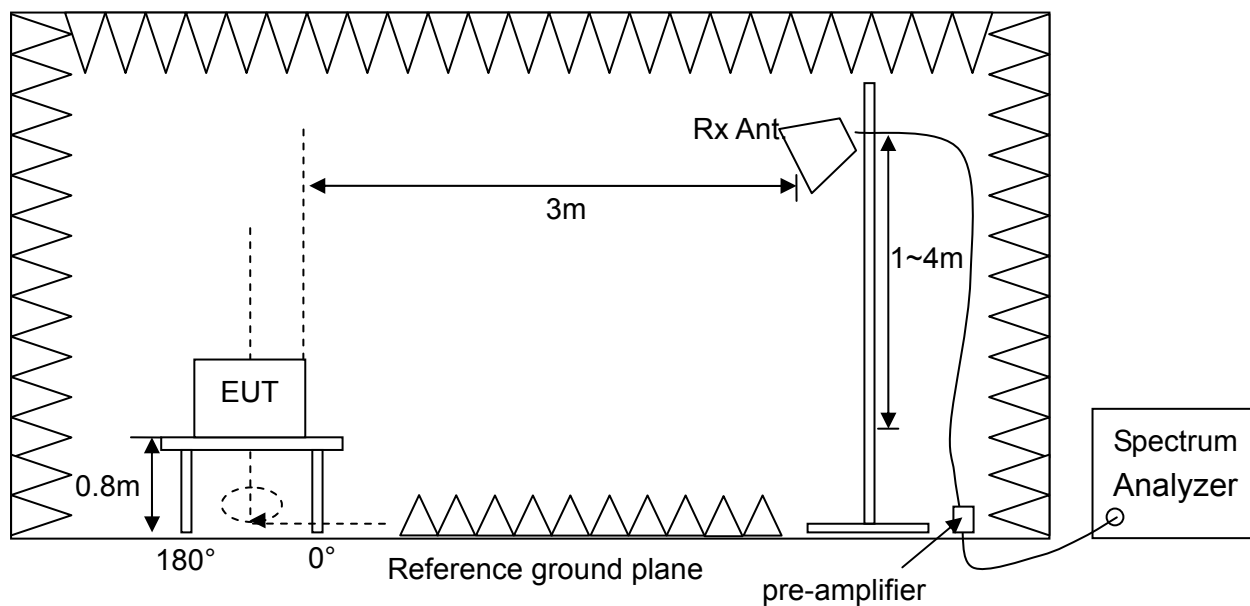
- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane in the semi-anechoic chamber. If the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane in the semi-anechoic chamber.
- c. For the measurement of frequency below 1000MHz, the EUT was set 10m away from the interference receiving antenna for the limit of Class A equipment or CISPR 22. For Class B equipment and the measurement of frequency above 1000MHz, the EUT was set 3m away from the interference receiving antenna.
- d. Rapidly sweep the signal in the test frequency range by using the spectrum through the Maximum-peak detector.
- e. Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4 meters above the reference ground plane continuously to determine at least six frequencies associated with higher emission levels and record them.
- f. For measurement of frequency above 1000MHz, the beamwidth of receiving horn antenna should keep covering EUT when the receiving horn antenna height varied.
- g. Then measure each frequency found from step e. by using the spectrum with rotating the EUT and positioning the receiving antenna height to determine the maximum level.
- h. Finely tune the antenna and turntable around the recorded position of each frequency found from step f.
- i. For measurement of frequency below 1000MHz, set the receiver detector to be Quasi-Peak per CISPR 16-1 to find out the maximum level occurred.
- j. For measurement of frequency above 1000MHz, set the spectrum detector to be Peak or Average to find out the maximum level occurred, if any.
- k. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.
- l. Change the receiving antenna to another polarization to measure radiated emission by following step d. to k. again.
- m. If the peak emission level measured from step e. is 4dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate Q.P. value will be measured and presented.

3.4 Test Configurations

Radiated Emission Measurement below 1000MHz



Radiated Emission Measurement above 1000MHz



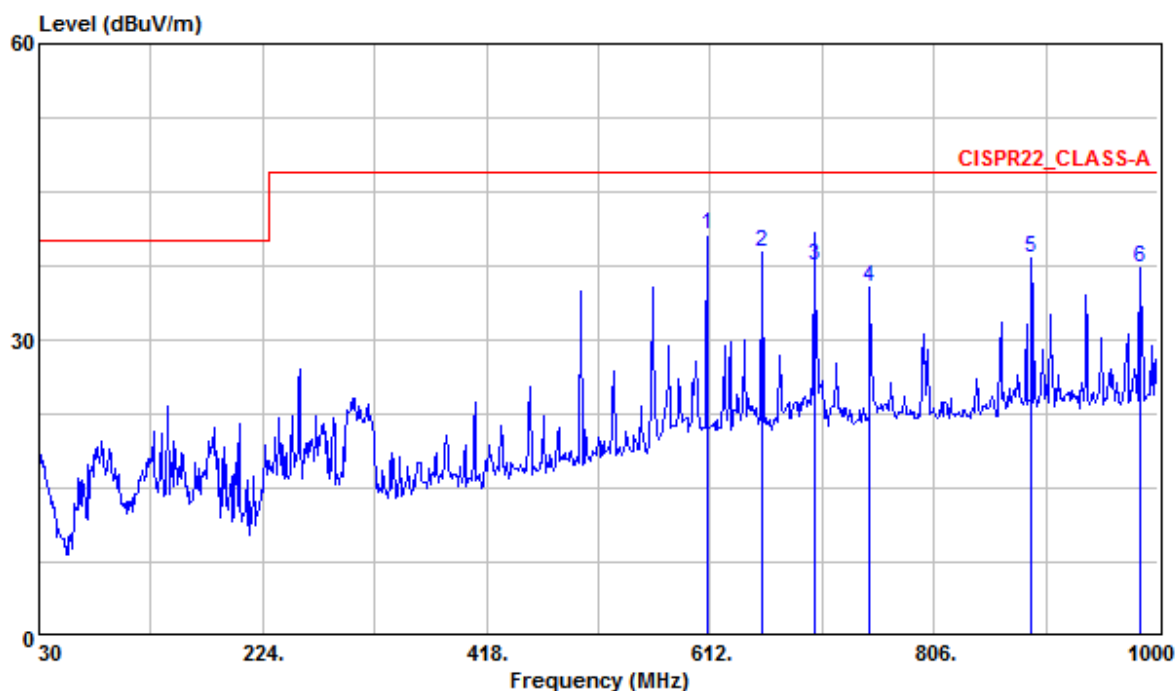
3.5 Photographs of the Test Configurations



3.6 Test Results

Radiated Emission Measurement below 1000MHz

Test Mode : Normal
Test Voltage : 120V/60Hz to the power adapter
Tester : Carl **Temperature** : 25°C
Humidity : 69%RH **Frequency Range** : 30MHz~1GHz
IF Bandwidth : 120kHz **Polarization** : Horizontal

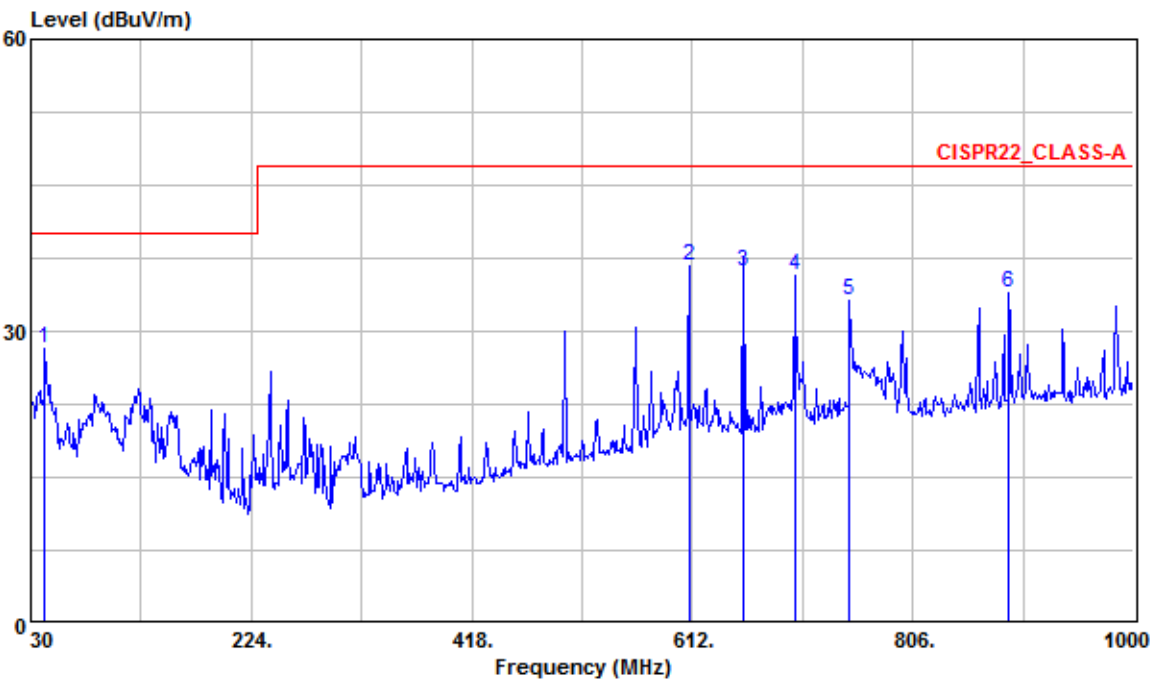


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 @	609.090	40.56	48.83	-8.27	47.00	-6.44	---	---	HORIZONTAL	Peak
2 @	657.590	38.92	46.49	-7.57	47.00	-8.08	---	---	HORIZONTAL	Peak
3 @	703.178	37.48	44.61	-7.13	47.00	-9.52	123	115	HORIZONTAL	QP
4	750.710	35.35	41.61	-6.26	47.00	-11.65	---	---	HORIZONTAL	Peak
5 @	890.390	38.35	42.35	-4.00	47.00	-8.65	---	---	HORIZONTAL	Peak
6 @	984.480	37.21	40.06	-2.85	47.00	-9.79	---	---	HORIZONTAL	Peak

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
3. Q.P is abbreviation of quasi-peak.

Test Mode : Normal
Test Voltage : 120V/60Hz to the power adapter
Tester : Carl Temperature : 25°C
Humidity : 69%RH Frequency Range : 30MHz~1GHz
IF Bandwidth : 120kHz Polarization : Vertical

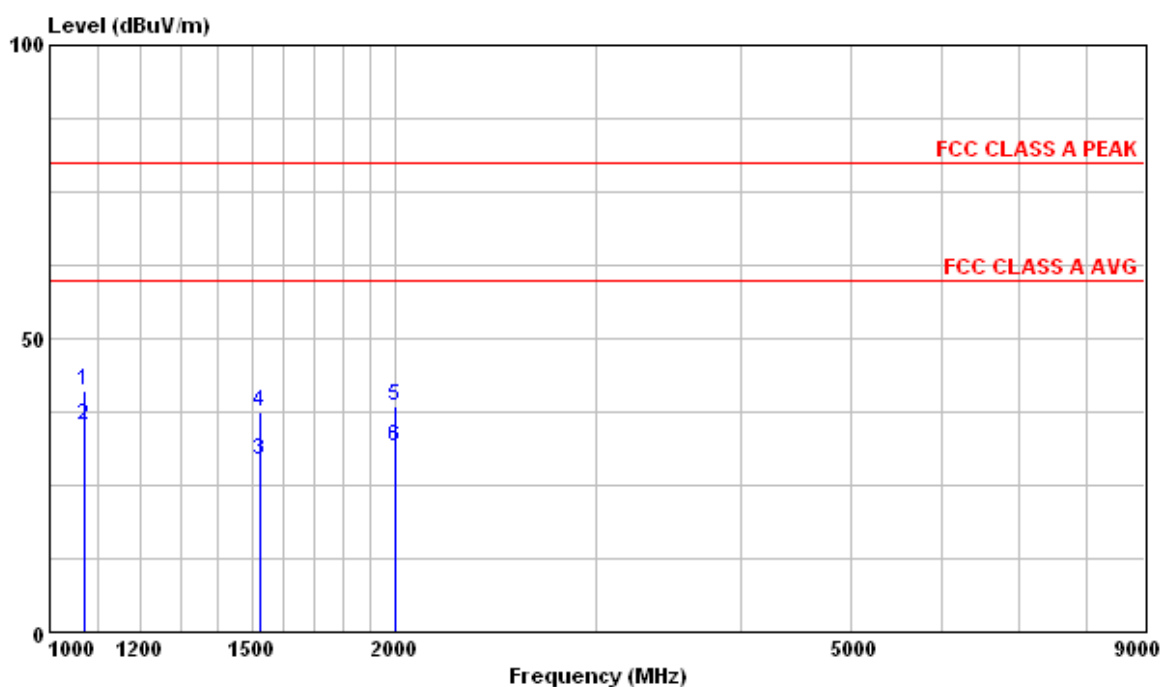


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	42.610	28.18	45.17	-16.99	40.00	-11.82	---	---	VERTICAL	Peak
2 @	609.090	36.67	44.39	-7.72	47.00	-10.33	---	---	VERTICAL	Peak
3	656.296	36.14	43.00	-6.86	47.00	-10.86	120	109	VERTICAL	QP
4	702.210	35.74	42.30	-6.56	47.00	-11.26	---	---	VERTICAL	Peak
5	750.710	33.15	38.45	-5.30	47.00	-13.85	---	---	VERTICAL	Peak
6	890.390	33.98	37.23	-3.25	47.00	-13.02	---	---	VERTICAL	Peak

- Note:
- 1. Emission Level = reading value + correction factor.
 - 2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.
 - 3. Q.P is abbreviation of quasi-peak.

Radiated Emission Measurement above 1000MHz

Test Mode : Normal
 Test Voltage : 120V/60Hz to the power adapter
 Tester : Carl Temperature : 26°C
 Humidity : 70%RH Frequency Range : 1GHz ~9GHz
 IF Bandwidth : 1MHz Polarization : Horizontal

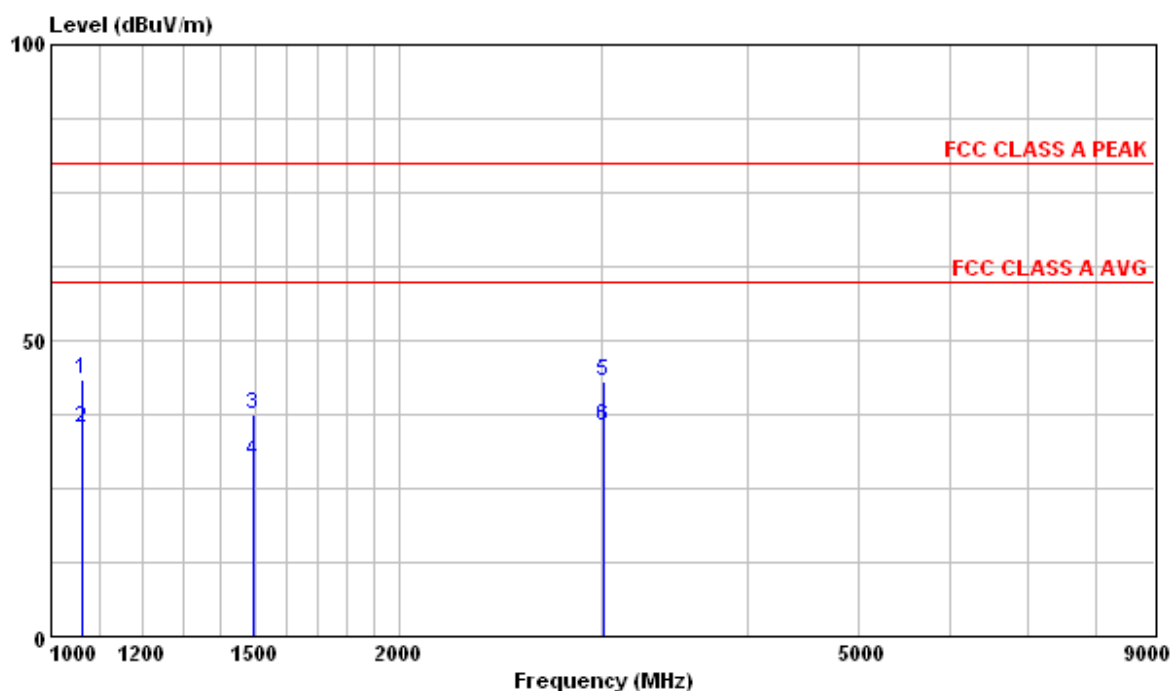


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Ant Pos	Table Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1072.400	41.24	81.37	-40.13	80.00	-38.76	375	354	HORIZONTAL	Peak
2	1073.800	35.07	75.20	-40.13	60.00	-24.93	377	355	HORIZONTAL	Average
3	1527.400	29.43	69.21	-39.78	60.00	-30.57	144	146	HORIZONTAL	Average
4	1528.370	37.65	77.41	-39.76	80.00	-42.35	146	142	HORIZONTAL	Peak
5	2000.220	38.33	74.09	-35.76	80.00	-41.67	369	36	HORIZONTAL	Peak
6	2001.300	31.44	67.20	-35.76	60.00	-28.56	364	42	HORIZONTAL	Average

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

Test Mode : Normal
Test Voltage : 120V/60Hz to the power adapter
Tester : Carl **Temperature** : 26°C
Humidity : 70%RH **Frequency Range** : 1GHz ~9GHz
IF Bandwidth : 1MHz **Polarization** : Vertical



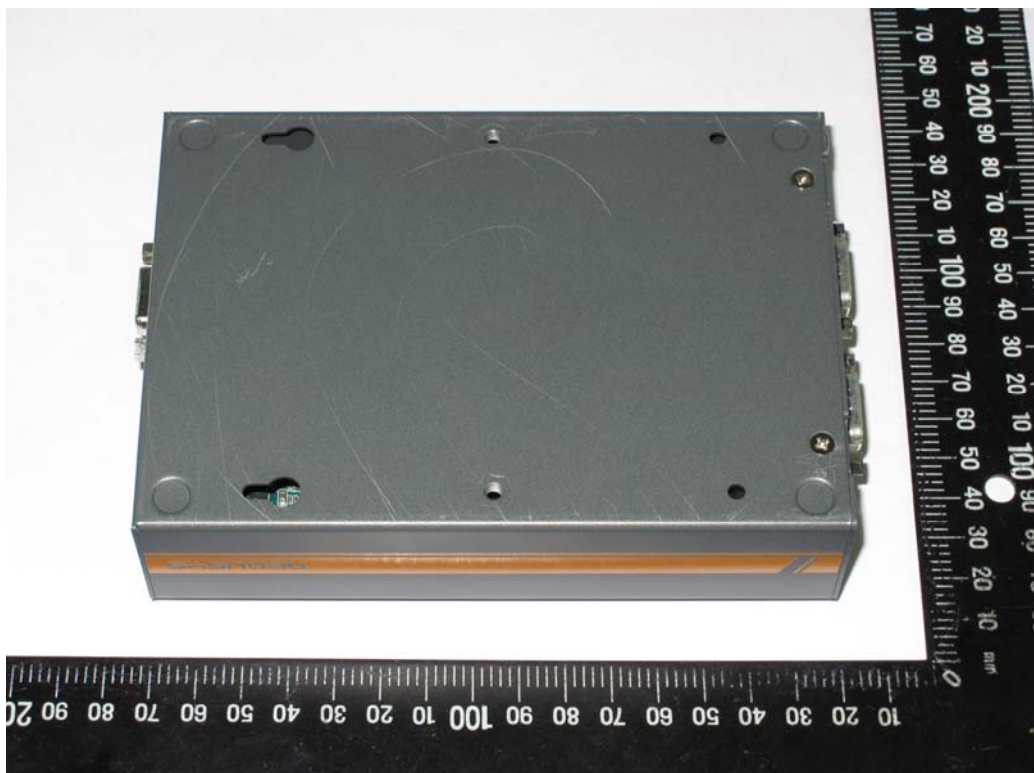
	Freq	Level	Read	Limit	Over	Ant	Table		
	MHz	dBuV/m	Level	Line	Limit	Pos	Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	1064.450	43.26	83.38	-40.12	80.00	-36.74	100	0 VERTICAL	Peak
2	1065.600	35.07	75.20	-40.13	60.00	-24.93	103	4 VERTICAL	Average
3	1496.260	37.51	77.56	-40.05	80.00	-42.49	388	151 VERTICAL	Peak
4	1497.300	29.46	69.50	-40.04	60.00	-30.54	385	155 VERTICAL	Average
5	3000.300	43.05	76.91	-33.86	80.00	-36.95	129	321 VERTICAL	Peak
6	3001.600	35.46	69.32	-33.86	60.00	-24.54	125	324 VERTICAL	Average

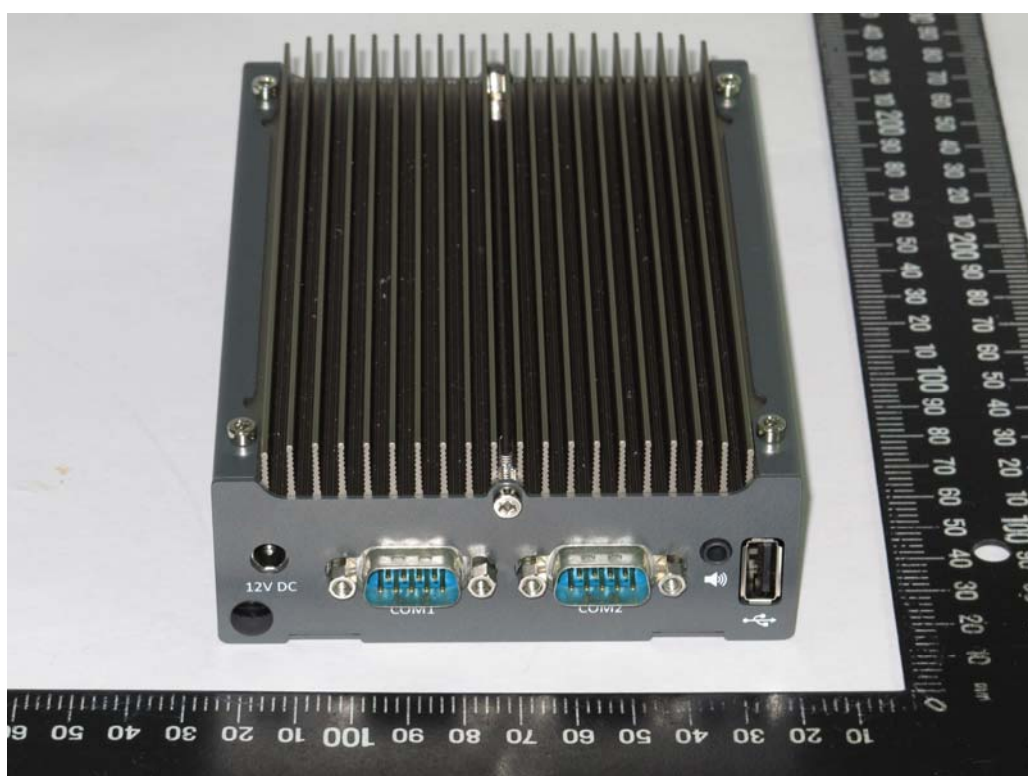
Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

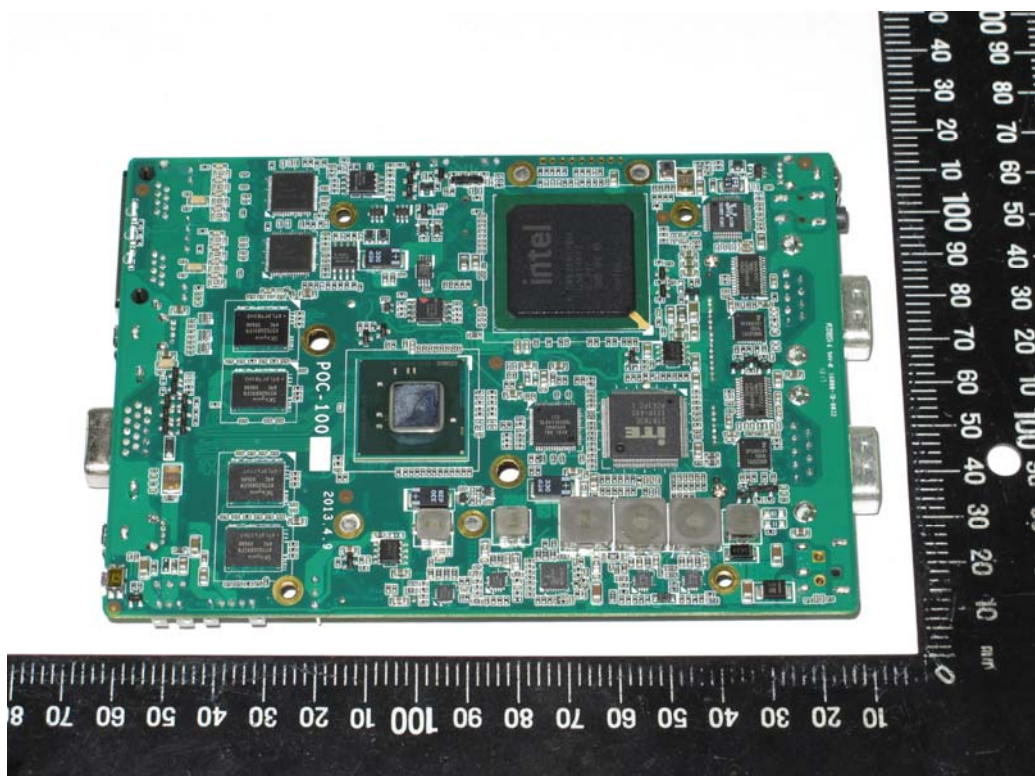
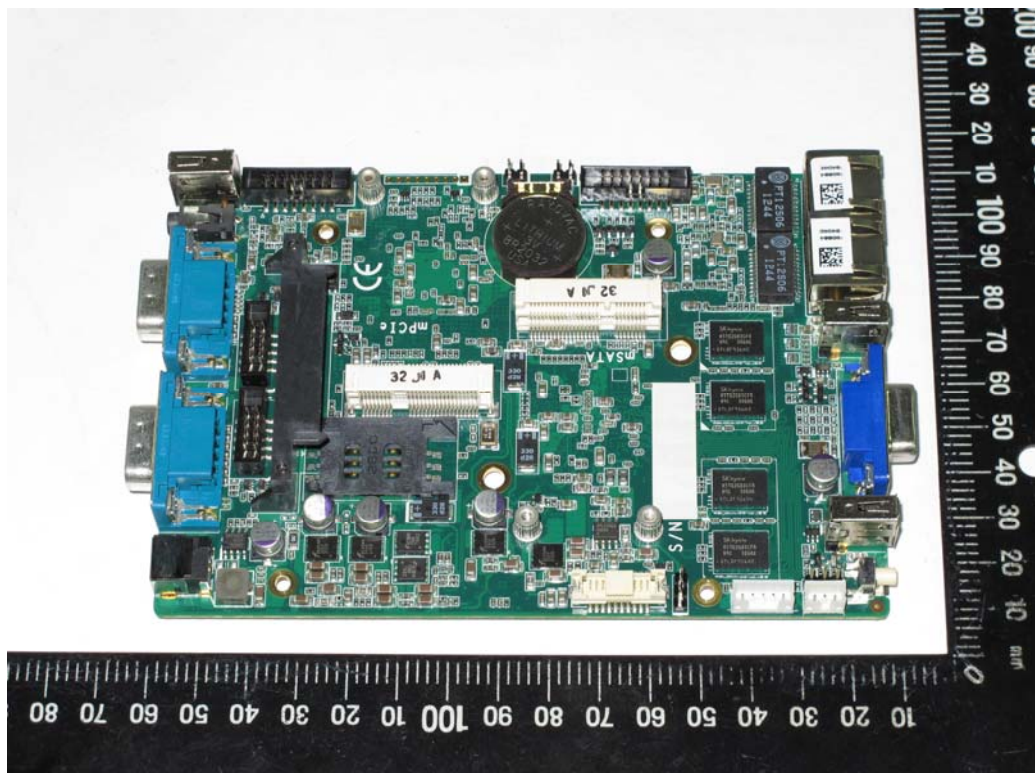
Attachment 1

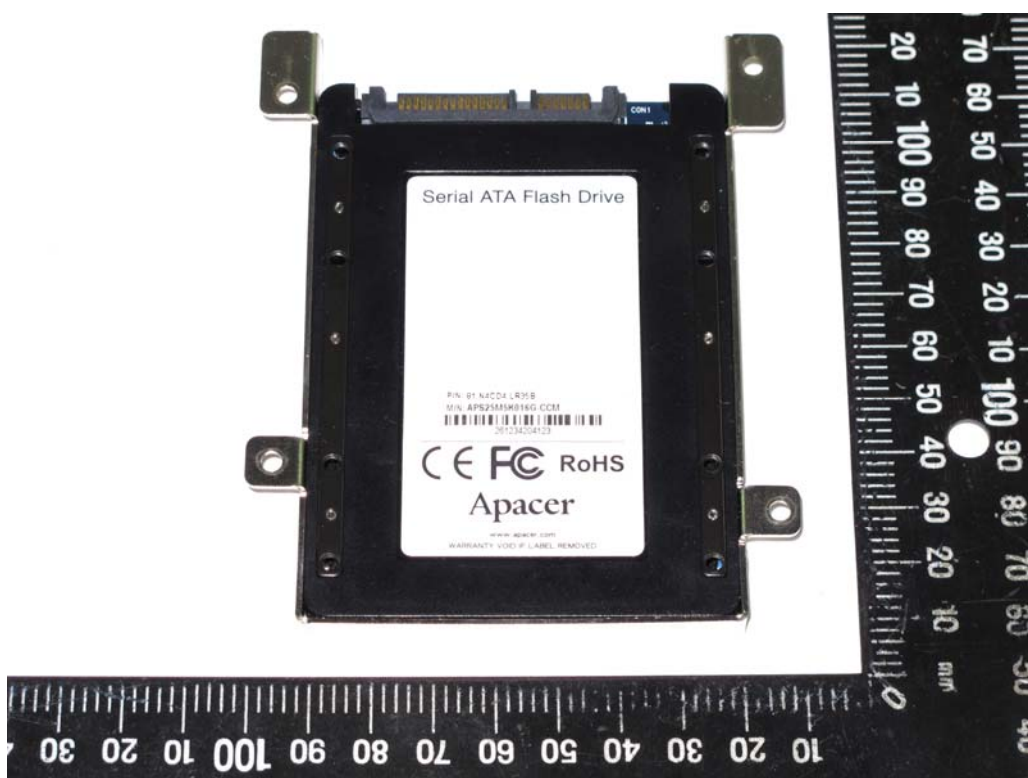
Photographs of EUT











Adapter





Attachment 2

Modifications of EUT

Statement of the EUT Modifications

According to the rules of ANSI C63.4-2009 clause 10.2.13, the following equipment (EUT):

Equipment Under Test : POC-100 Series
Model No. : POC-100RK
Applicant : Neousys Technology Inc.
Address : 15F, No. 868-3, Zhongzheng Rd., Zhonghe Dist.,
New Taipei City, 23586, Taiwan

☐ should be without any modifications made

☐ should be with some modifications made

to bring the EUT into compliance with the appropriate specifications (47CFR Part 15, Subpart B). If any, the details of the modifications including the complete descriptions, reasons and so on are described in next page of this report.

We , Neousys Technology Inc. hereby ensure that the product specified above will have all of the modifications incorporated in the product when manufactured and placed on the market.

The following importer or manufacturer is responsible for this statement:

Company Name : _____

Company Address : _____

Telephone : _____ E-mail : _____

Legal Signature of the responsible personal:

Title / Name (full name)

Date

The details of the modifications:

Item	Solution Component	Specifications	Manufacturer	Quantity	Reasons
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

If needed, some modification items are shown in the photographs in the following.