



APPLICATION OF CERTIFICATION
For

Ricoh Co., Ltd

Multifunction Digital Product (Copier/ Printer/ Scanner)

Model Number
MP 2501SP

FCC ID: BBP-MFMP2501SP1

Prepared for : Ricoh Co., Ltd
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Report Number : ACS- F12216
Date of Test : Sep.21~23, 2012
Date of Report : Oct.30, 2012

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TEST REPORT CERTIFICATION

Applicant : Ricoh Co., Ltd
 Manufacturer : Ricoh Co., Ltd
 EUT Description : Multifunction Digital Product (Copier/ Printer/ Scanner)
 FCC ID : BBP-MFMP2501SP1

(A) Model No. : MP 2501SP
 (B) Power Supply : AC 120V/60Hz
 (C) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2011

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 Class B limits both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Sep.21~23, 2012 Report of date: Oct.30, 2012

Prepared by : Selina Liu / Supervisor Reviewed by : Bensun Chen / Assistant Manager



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	Results	Remarks
Power Line Conducted Emission Test	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 7.04dB at 7.473MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 4.29dB at 336.00MHz
Radiated Emission Test (1-15GHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 9.41dB at 12174.01MHz

2. GENERAL INFORMATION

2.1. Equipment under test (EUT)

2.1.1. Emission test:

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
(1)Copy Machine	RICOH	MP 2501SP	S120517001 4	
(2)Bank	RICOH	Paper Feed Unit PB2000	D698-00005 5	
(3)Bank	RICOH	Paper Feed Unit PB2010	D699-00005 6	
(4)1BIN Unit	RICOH	1 Bin Tray BN2010	#53	
(5)HDD	RICOH	Hard Disk Drive Option Type M1	MK2575GS X	
(6)IEEE 1284	RICOH	IEEE 1284 Interface Board Type A	20100179	
(7)IEEE 802.11a/g	RICOH	IEEE 802.11a/g Interface Unit Type J	20600108	
(8)Bluetooth	RICOH	Bluetooth Interface Unit Type D	315407	
(9)ICIB	RICOH	Copy Data Security Unit Type G	10700244	
(10)DIMM (1.5GB)	RICOH	Memory Unit Type M1 1.5GB	205S0035	
(11)FCU	RICOH	Fax Option Type M1	204S2599	
(12)MLB	RICOH	File Format Converter Type E	20100076	
(13)MKB	RICOH	Optional Counter Interface Unit Type A	10901804	
(14)Handset	RICOH	Handset Type C5502	-	

2.1.2. Highest Frequency Generated or Used in The Device or on Which the Device Operates(MHz)

Kind of equipment	Mode name	Operates Frequency	Remark
Copy Machine	MP 2501SP	3GHz	HDD

2.2. Tested Supporting System Details

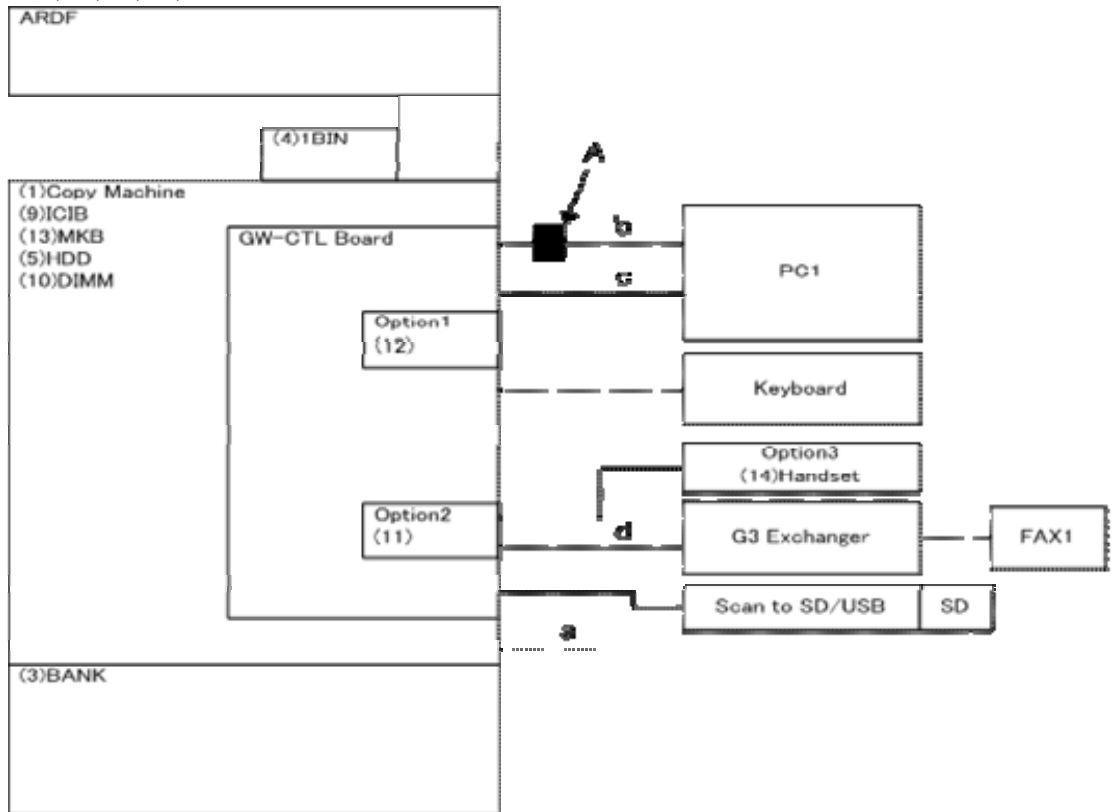
2.2.1. Emission test:

Kind of equipment	Manufacturer	Model name	Remarks
PC1	LENOVO	Thinkpad 200i	
Display 2	DELL	1907FPt	
PC2	DELL	DCTA	IEEE1284
Key board	DELL	SK-8115	
Mouse	DELL	M057UO	
G3 Exchanger	HOW	ND4T-EXCH	
FAX Machine 1	RICOH	Aficio MP 3410SF	
IEEE802. 11a/g Access Point	BUFFAIO	WHR-HP-GN	
USB Memory	Transcend	TB-AT2G/B	
SD Card	ATP	AF2GSD	
IEEE1284 Cable	Black Box	3m	
LAN Cable	TOTAL	3m	Ferrico Core GRFC-5(STP Cable)
USB Cable	RICOH	2.5m	

2.3. Block diagram of connection between the EUT and simulators

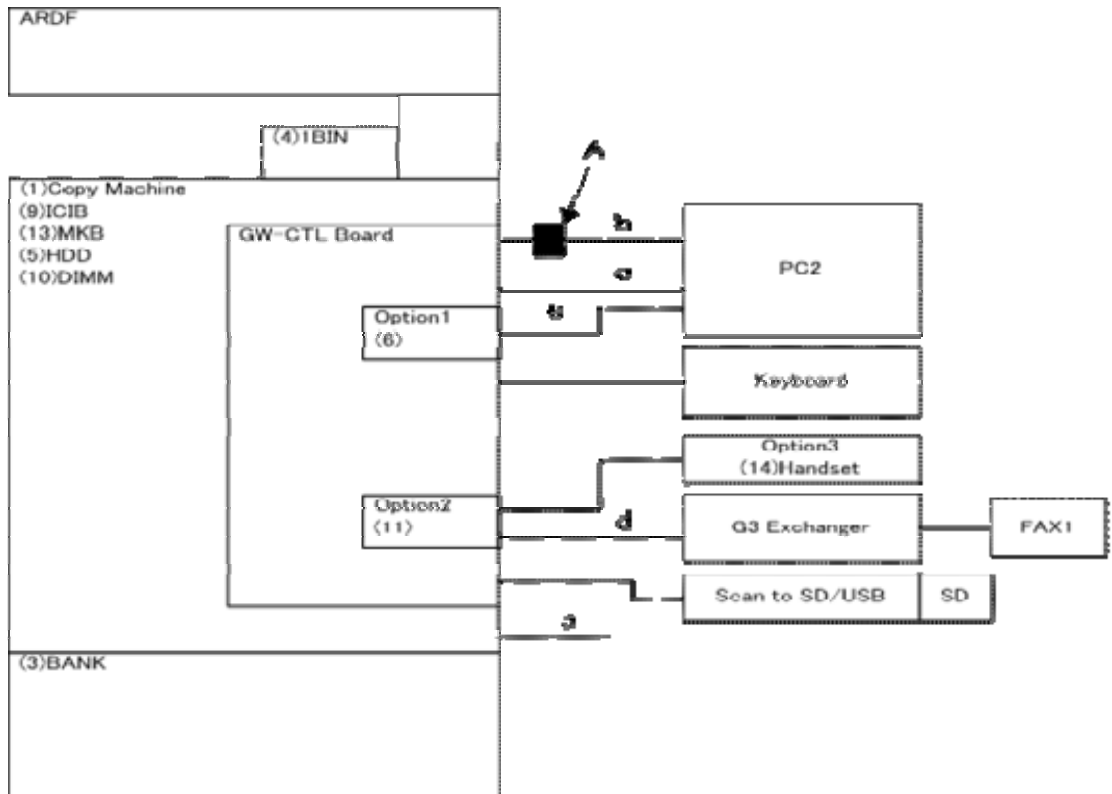
2.3.1. Configuration of E.U.T

Mode 9,10,11,12,13



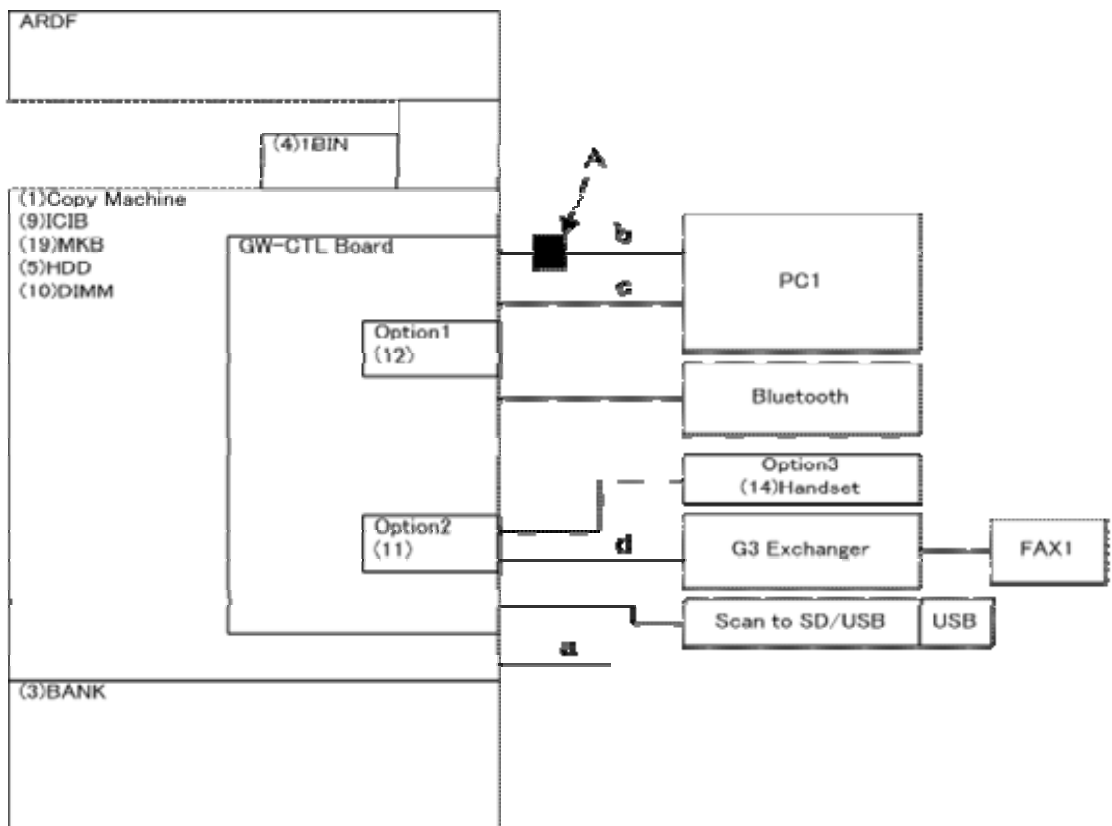
Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

(6) Mode 14



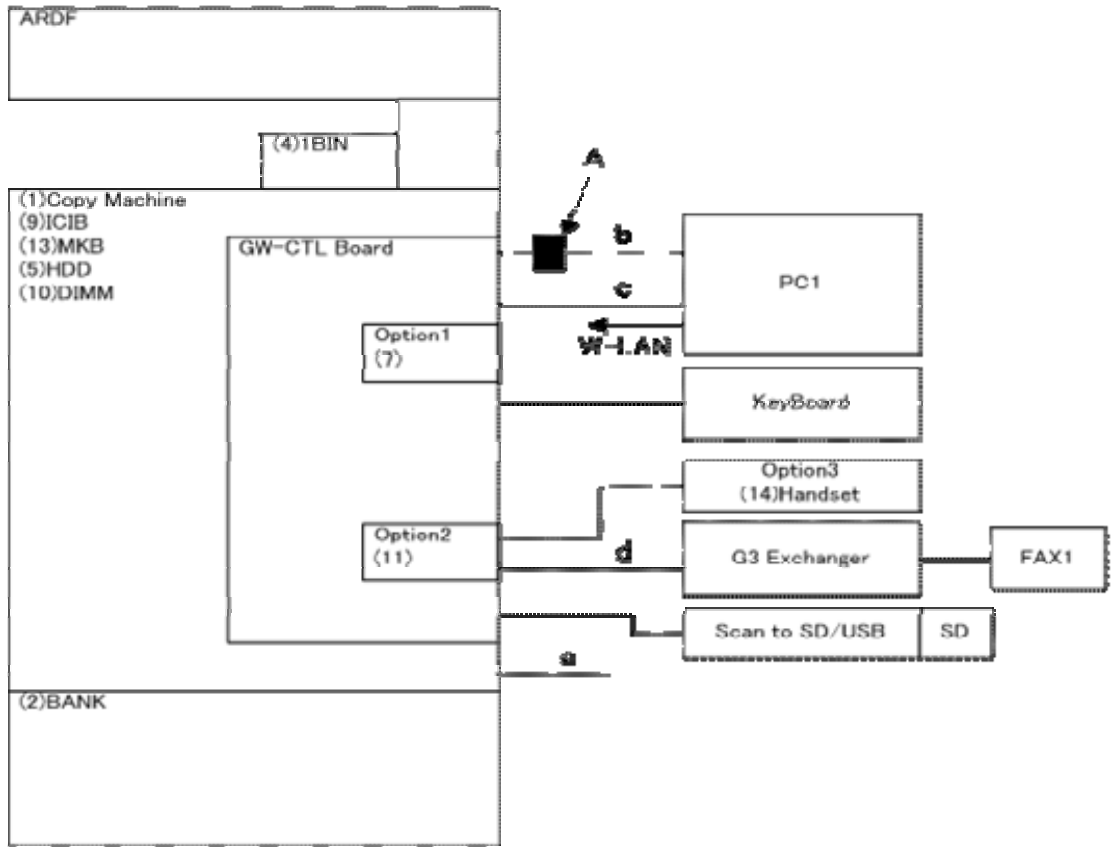
Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

(7) Mode 15



Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

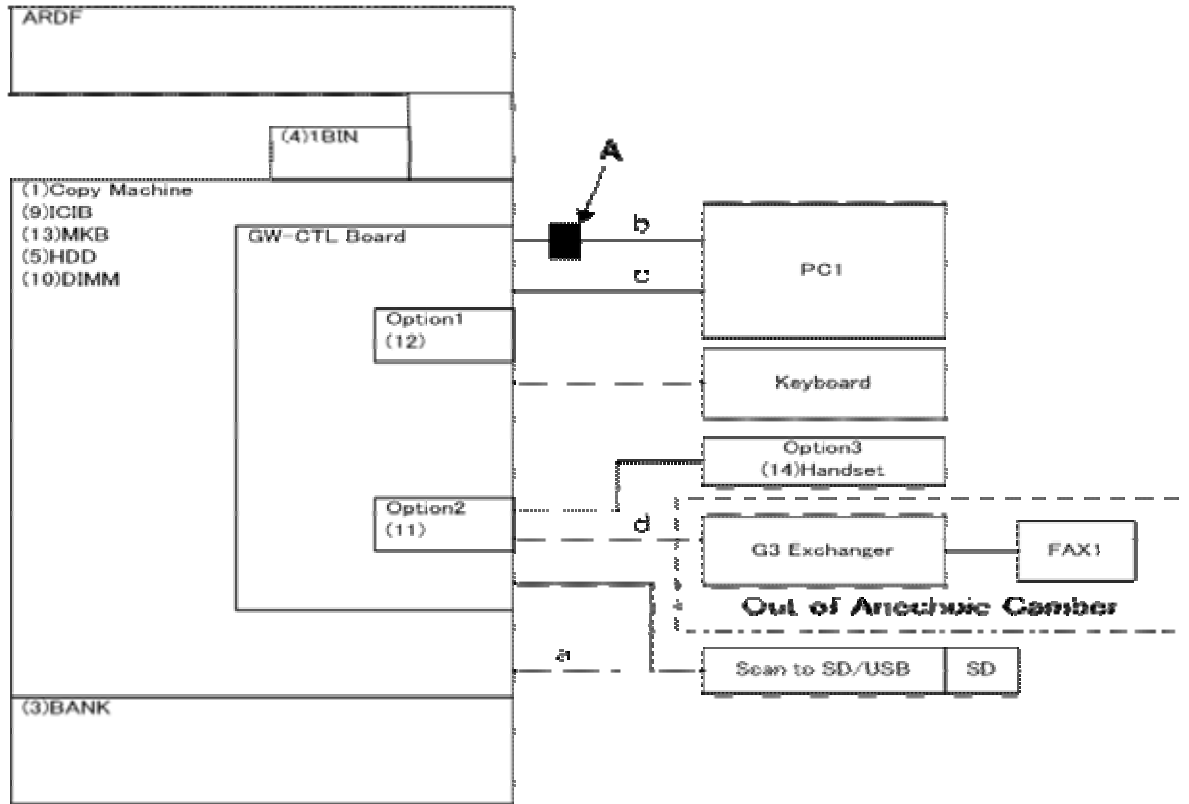
(8)Mode 16



Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

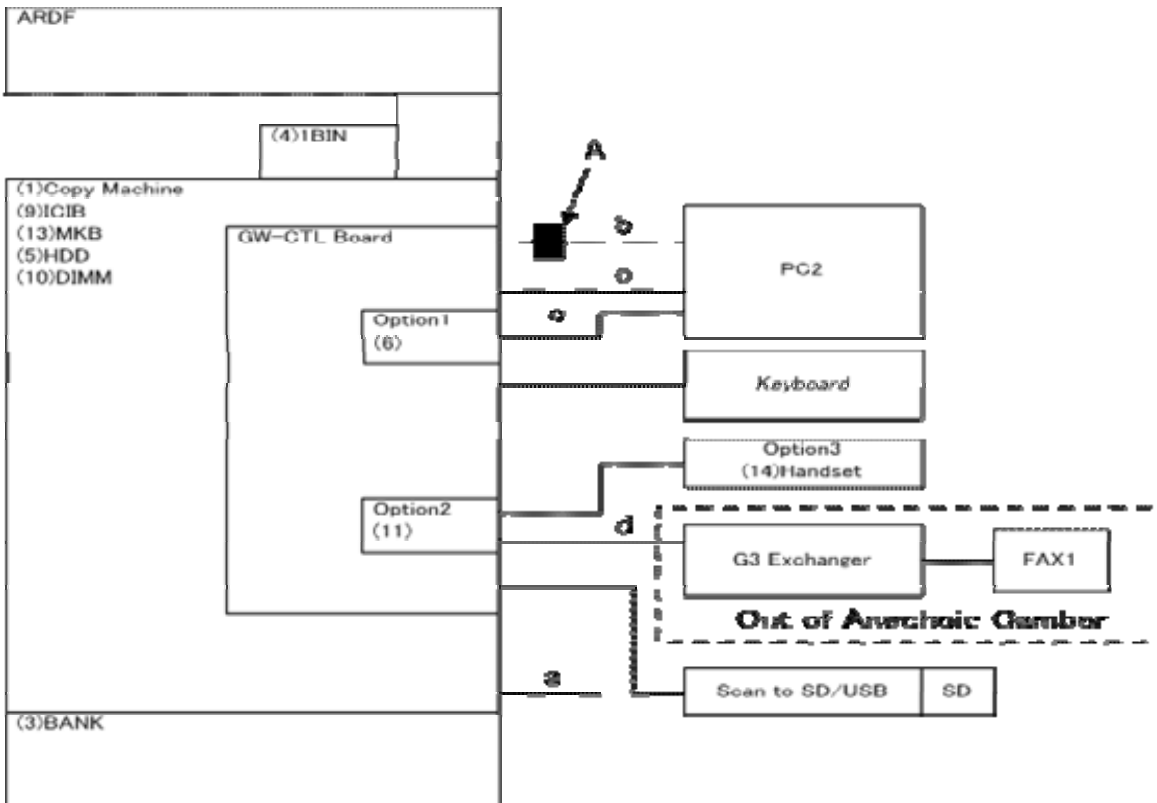
2.3.2. Configuration of E.U.T

(1)Mode 1,2,3,4,5



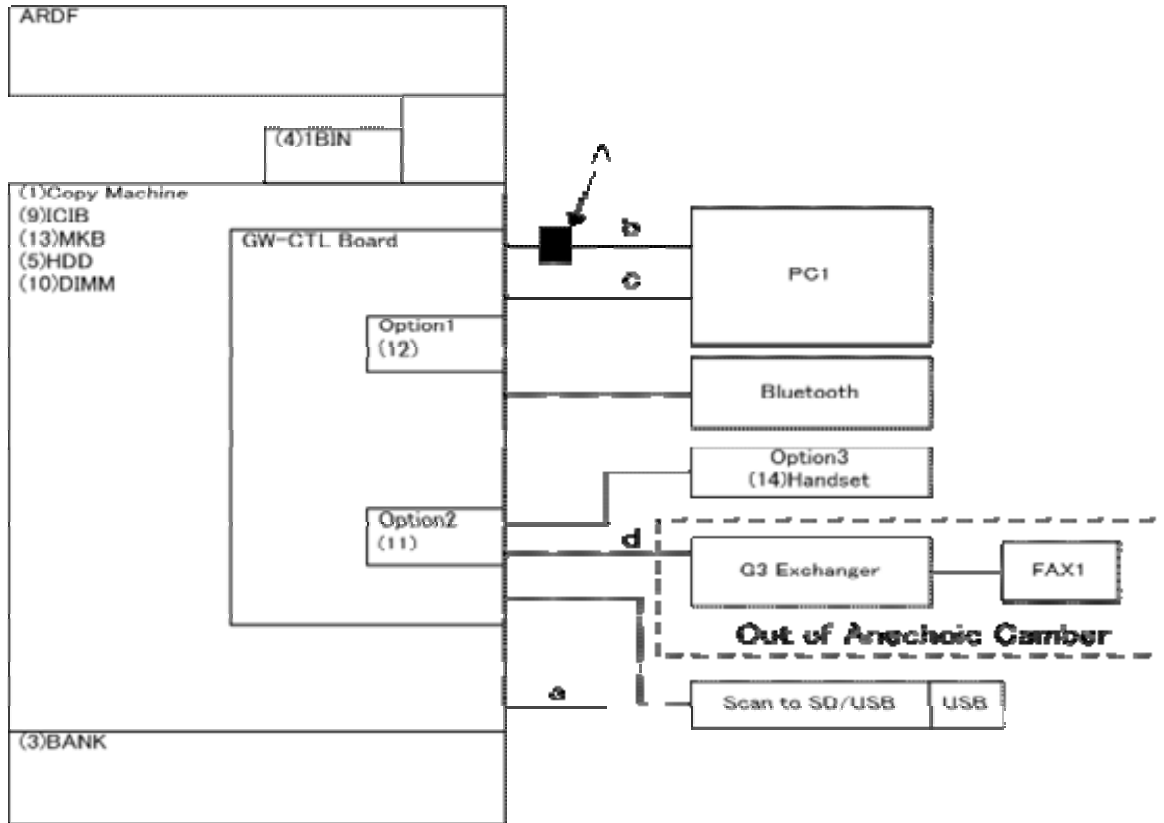
Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

(2)Mode 6



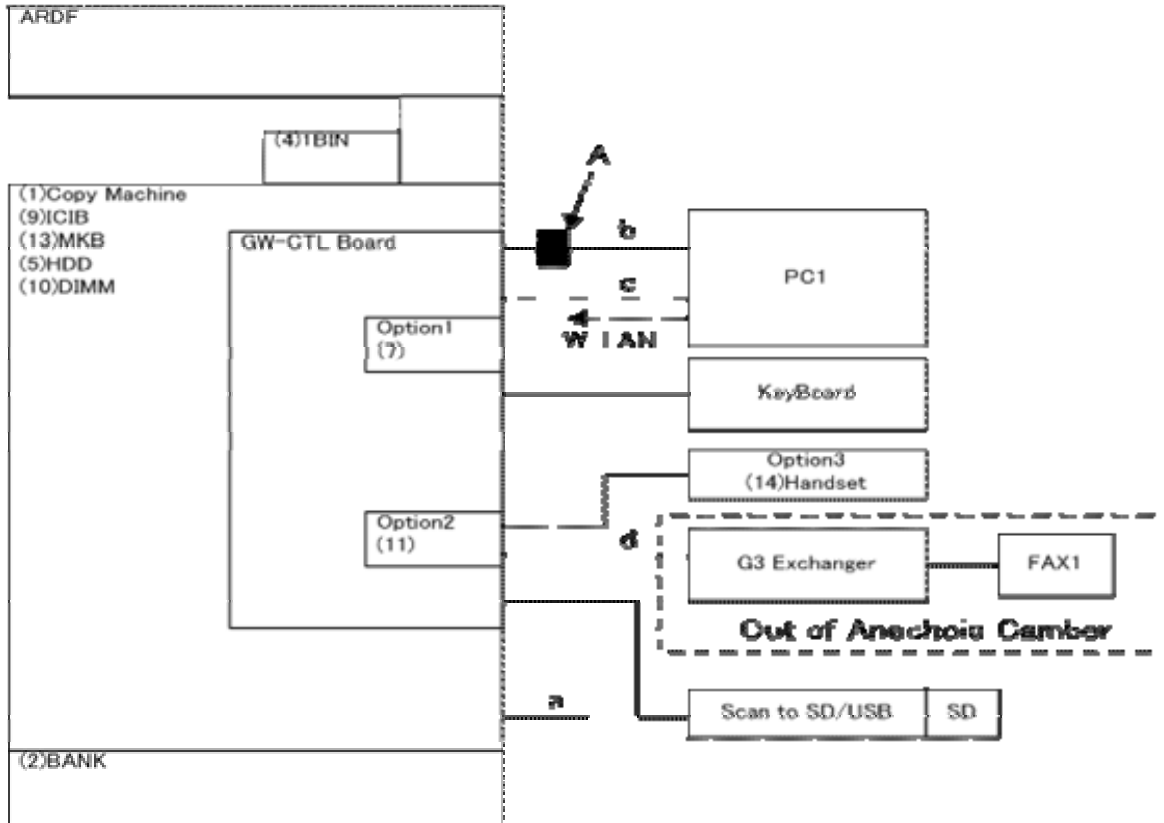
Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

(3) Mode 7



Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

(4) Mode 8



Core-A Kitagawa GRFC-5 Cat5e Ether Cable Printer side (1turn)

Item	Cable Name	Manufacturer	Length(m)	Shielding	Back shell	Remarks
a	ACPower Cable	TA HSHING	2m	NO	-----	
b	NIC Cable	TOTAL	3m	Yes	Metal	Cat5e
c	USB Cable	RICOH	2.5m	NO	Plastic	
d	Modular Cable	-----	2.15m	NO	Plastic	H5235350
e	1284 Cable	Black Box	3m	NO	Plastic	

(EUT: Multifunction Digital Product (Copier/ Printer/ Scanner))

2.4.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 : Certificated by FCC, USA
 Registration Number: 90454
 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA
 Registration Number: 794232
 Valid Date: Dec.30, 2012

EMC Lab. : Certificated by DAkkS, Germany
 Registration No: D-PL-12151-01-01
 Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
 NVLAP Code: 200372-0
 Valid Date: Mar.31, 2013

2.5.Measurement Uncertainty (95% confidence levels, k=2)

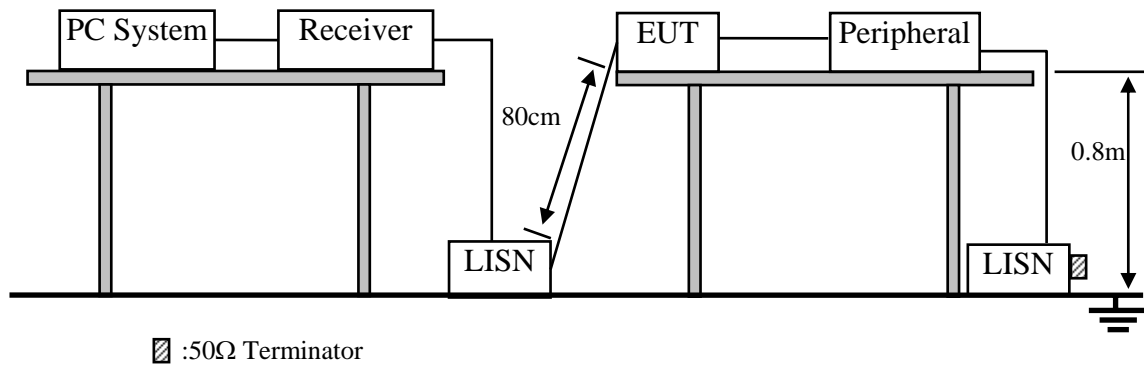
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.8 dB(30~200MHz, Polarize: V)
	4.2 dB(200M~1GHz, Polarize: H)
	3.8 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	3.1dB(Distance: 3m Polarize: V)
	3.7 dB(Distance: 3m Polarize: H)
Uncertainty for test site temperature and humidity	3%
	0.6°C

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May.08, 12	1 Year
2	L.I.S.N.#1	Rohde & Schwarz	ENV4200	100041	May.08, 12	1 Year
3	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	May.08, 12	1 Year
4	Terminator	Hubersuhner	50Ω	No. 1	May.08, 12	1 Year
5	Terminator	Hubersuhner	50Ω	No. 2	May.08, 12	1 Year
6	RF Cable	Fujikura	3D-2W	No.2	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	6200298346	May.08, 12	1 Year
8	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	May.08, 12	1 Year

3.2. Block Diagram of Test Setup



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. Multifunction Digital Product (Copier/ Printer/ Scanner) (EUT)

Model Number : MP 2501SP
 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. Turn on the power of all equipment..
- 3.5.3. PC run test software to control EUT work in Tx mode.

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 provided a 50-ohm coupling impedance for the EUT (Please refer to 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.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

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

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

EUT: Multifunction Digital Product (Copier/ Printer/ Scanner)

Model No. : MP 2501SP

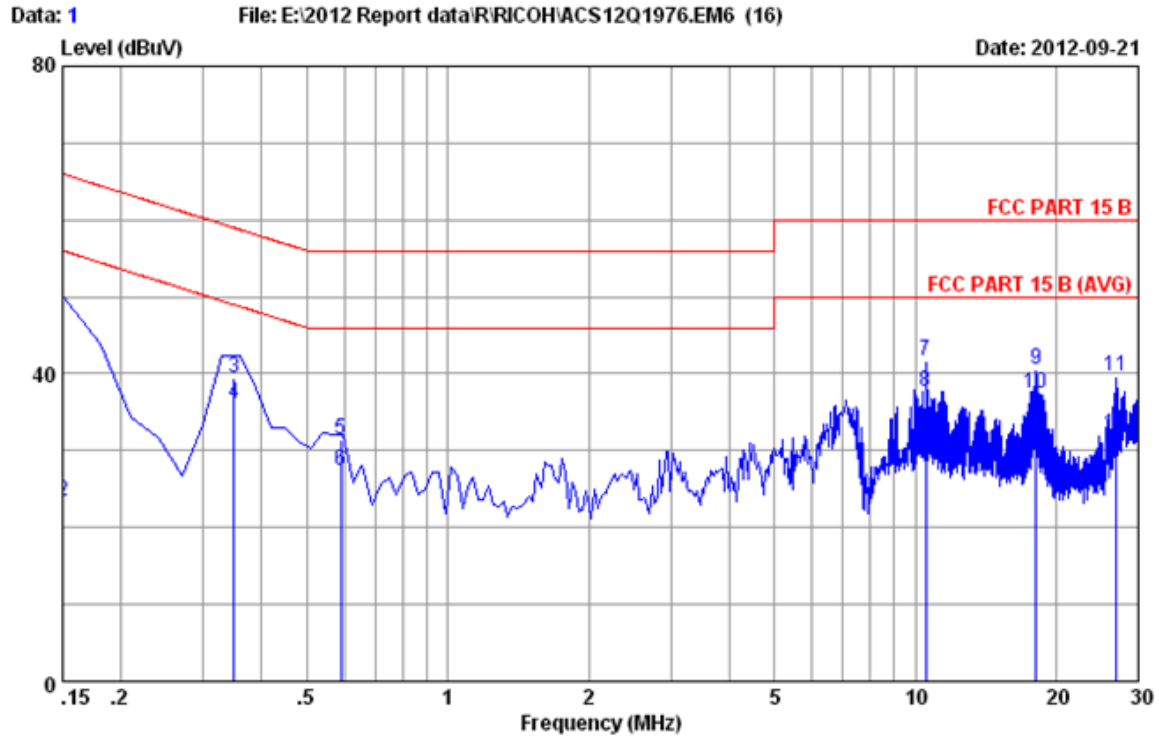
Test Date: Sep.21, 2012 Temperature: 25.6°C Humidity: 62%

3.7.1. Operating modes :

1.	Standby	(CE)
2.	Copy	(CE)
3.	Giga Print & Scan	(CE)
4.	G3-1:Tx	(CE)
5.	G3-1:Rx	(CE)
6.	IEEE1284+USB2.0 Print+SD R/W(test program)	(CE)
7.	Bluetooth Print+USB R/W(test program)	(CE)
8.	W-LAN Print & Scan	(CE)

3.7.2. The combination of apparatus, and the mode of operation

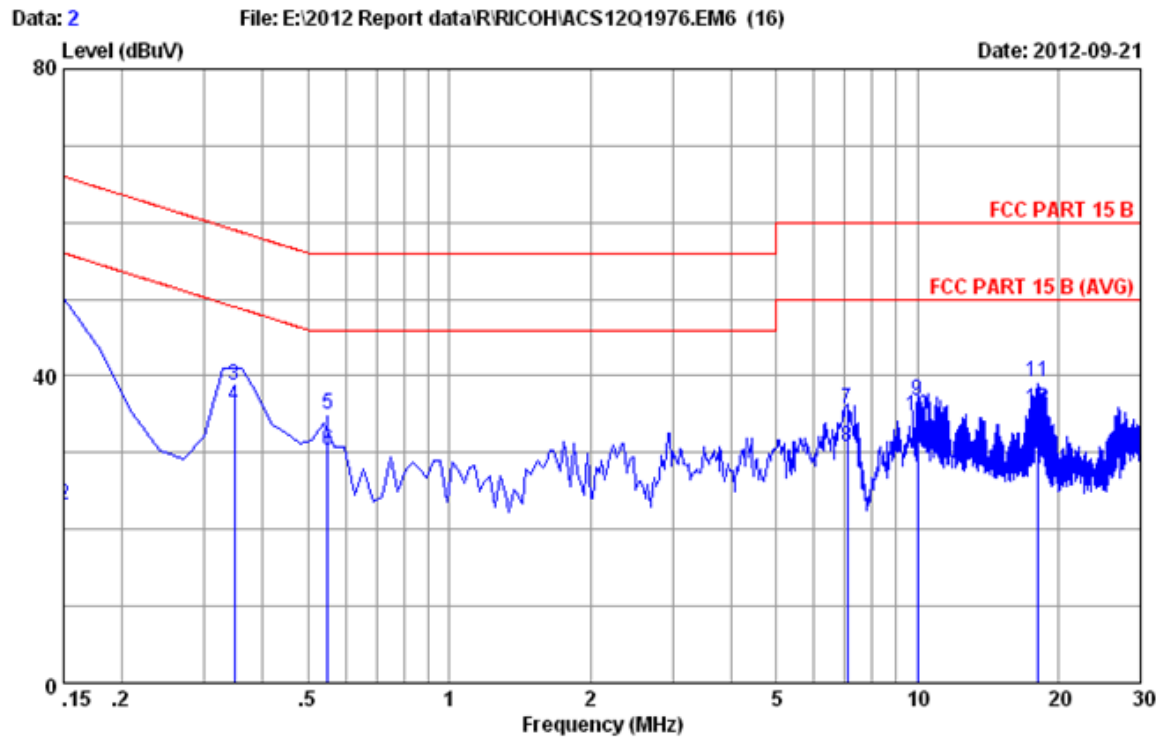
Model name	Operating Mode															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(1) Copy Machine	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(2)Bank								○								○
(3)Bank	○	○	○	○	○	○	○		○	○	○	○	○	○	○	
(4)1BIN Unit	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(5)HDD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(6)IEEE 1284						○								○		
(7)IEEE 802.11a/g								○								○
(8)Bluetooth							○								○	
(9)ICIB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(10)DIMM (1.5GB)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(11)FCU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(12)MLB	○	○	○	○	○		○		○	○	○	○		○		
(13)MKB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(14) Handset	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



Site no :Audix No.2 Conduction Data No :1
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product (Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :STANDBY
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	31.80	51.68	66.00	14.32	QP
2	0.15000	9.95	9.93	3.60	23.48	56.00	32.52	Average
3	0.34900	9.84	9.94	19.60	39.38	58.99	19.61	QP
4	0.34900	9.84	9.94	16.30	36.08	48.99	12.91	Average
5	0.59200	9.78	9.93	11.80	31.51	56.00	24.49	QP
6	0.59200	9.78	9.93	7.60	27.31	46.00	18.69	Average
7	10.525	9.85	9.98	21.80	41.63	60.00	18.37	QP
8	10.525	9.85	9.98	17.90	37.73	50.00	12.27	Average
9	18.098	9.99	10.04	20.50	40.53	60.00	19.47	QP
10	18.098	9.99	10.04	17.50	37.53	50.00	12.47	Average
11	26.854	10.02	10.14	19.60	39.76	60.00	20.24	QP
12	26.854	10.02	10.14	11.90	32.06	50.00	17.94	Average

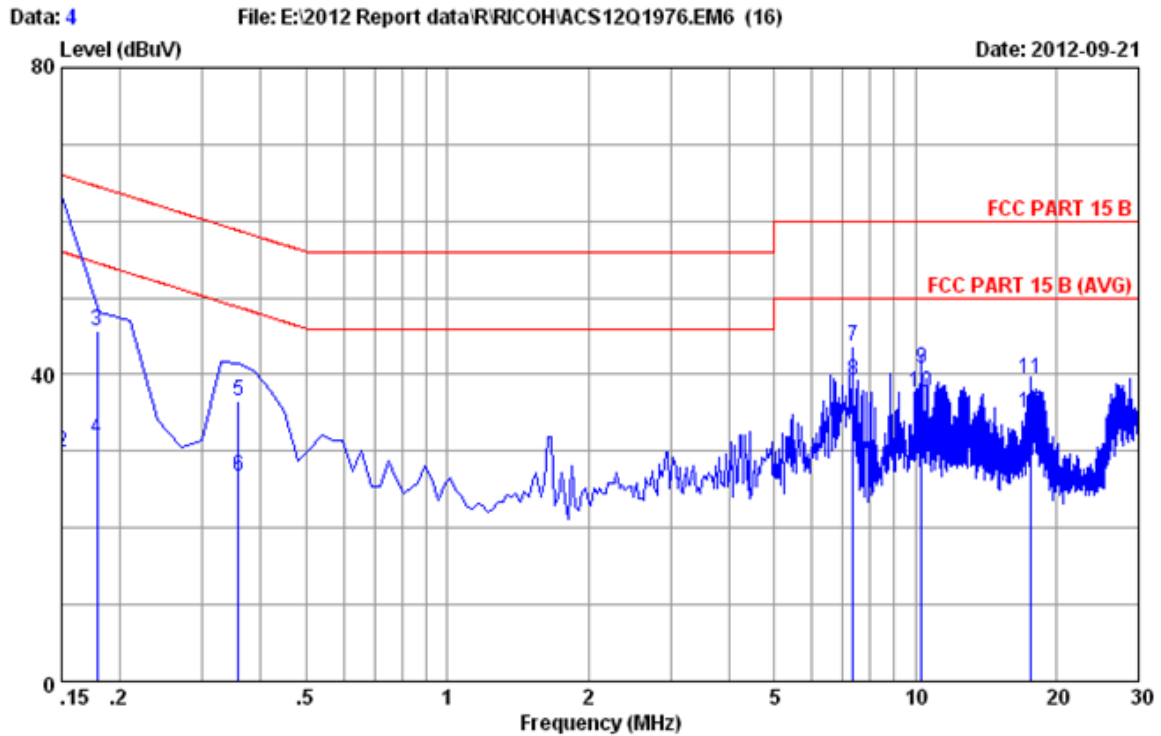
Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :2
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :STANDBY
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	31.50	51.38	66.00	14.62	QP
2	0.15000	9.95	9.93	3.20	23.08	56.00	32.92	Average
3	0.34800	9.84	9.94	18.90	38.68	59.01	20.33	QP
4	0.34800	9.84	9.94	16.30	36.08	49.01	12.93	Average
5	0.55100	9.78	9.93	15.20	34.91	56.00	21.09	QP
6	0.55100	9.78	9.93	10.60	30.31	46.00	15.69	Average
7	7.082	9.79	9.96	16.00	35.75	60.00	24.25	QP
8	7.082	9.79	9.96	10.90	30.65	50.00	19.35	Average
9	10.031	9.83	9.98	16.90	36.71	60.00	23.29	QP
10	10.031	9.83	9.98	15.00	34.81	50.00	15.19	Average
11	18.094	9.99	10.04	19.30	39.33	60.00	20.67	QP
12	18.094	9.99	10.04	15.60	35.63	50.00	14.37	Average

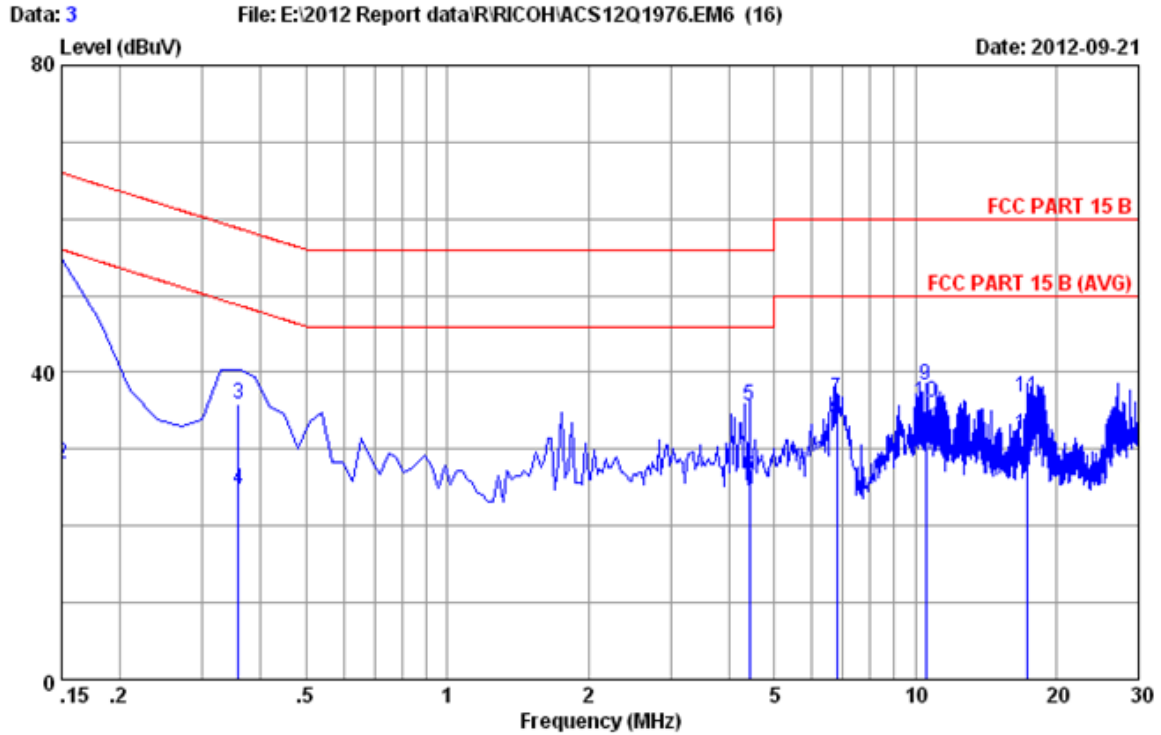
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :4
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product (Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Copy
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	34.30	54.18	66.00	11.82	QP
2	0.15000	9.95	9.93	9.90	29.78	56.00	26.22	Average
3	0.17900	9.92	9.93	25.80	45.65	64.53	18.88	QP
4	0.17900	9.92	9.93	11.80	31.65	54.53	22.88	Average
5	0.35800	9.84	9.94	16.69	36.47	58.77	22.30	QP
6	0.35800	9.84	9.94	6.89	26.67	48.77	22.10	Average
7	7.375	9.80	9.96	23.90	43.66	60.00	16.34	QP
8	7.375	9.80	9.96	19.50	39.26	50.00	10.74	Average
9	10.329	9.84	9.98	20.90	40.72	60.00	19.28	QP
10	10.329	9.84	9.98	17.80	37.62	50.00	12.38	Average
11	17.704	9.99	10.04	19.30	39.33	60.00	20.67	QP
12	17.704	9.99	10.04	15.00	35.03	50.00	14.97	Average

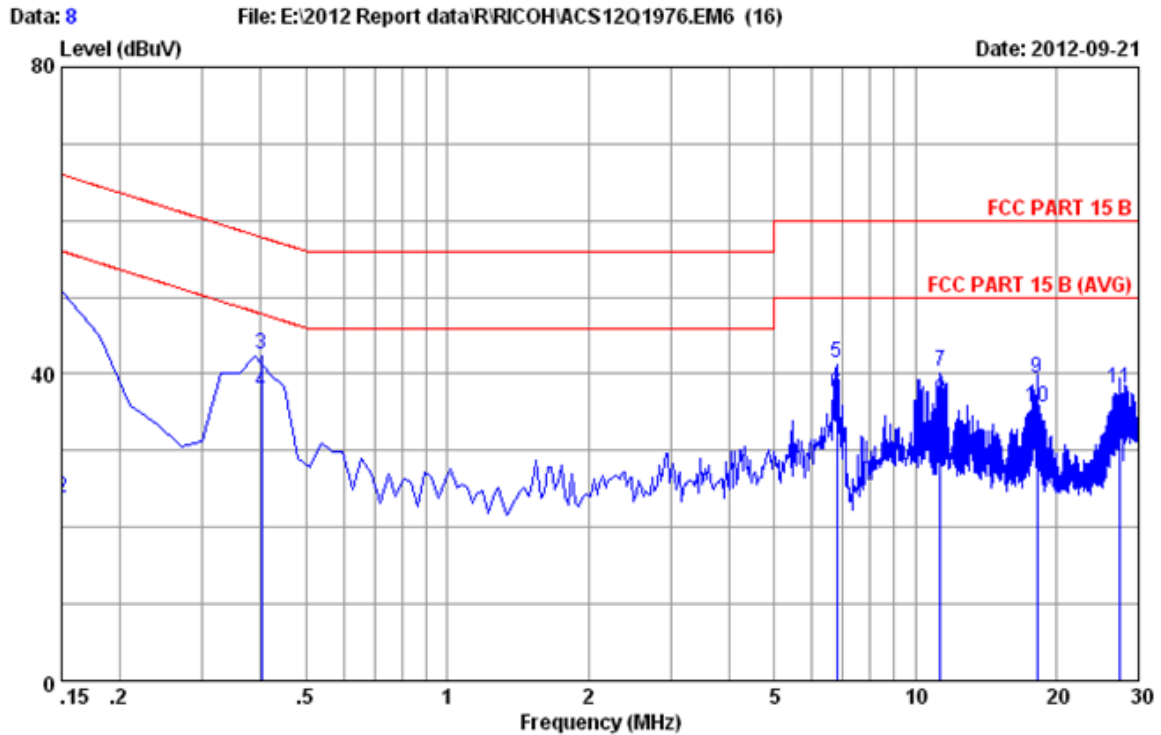
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :3
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Copy
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.90	53.78	66.00	12.22	QP
2	0.15000	9.95	9.93	8.20	28.08	56.00	27.92	Average
3	0.35800	9.84	9.94	15.99	35.77	58.77	23.00	QP
4	0.35800	9.84	9.94	4.99	24.77	48.77	24.00	Average
5	4.425	9.78	9.95	15.89	35.62	56.00	20.38	QP
6	4.425	9.78	9.95	6.89	26.62	46.00	19.38	Average
7	6.786	9.79	9.96	16.80	36.55	60.00	23.45	QP
8	6.786	9.79	9.96	13.90	33.65	50.00	16.35	Average
9	10.527	9.85	9.98	18.60	38.43	60.00	21.57	QP
10	10.527	9.85	9.98	16.30	36.13	50.00	13.87	Average
11	17.414	9.99	10.03	16.70	36.72	60.00	23.28	QP
12	17.414	9.99	10.03	11.90	31.92	50.00	18.08	Average

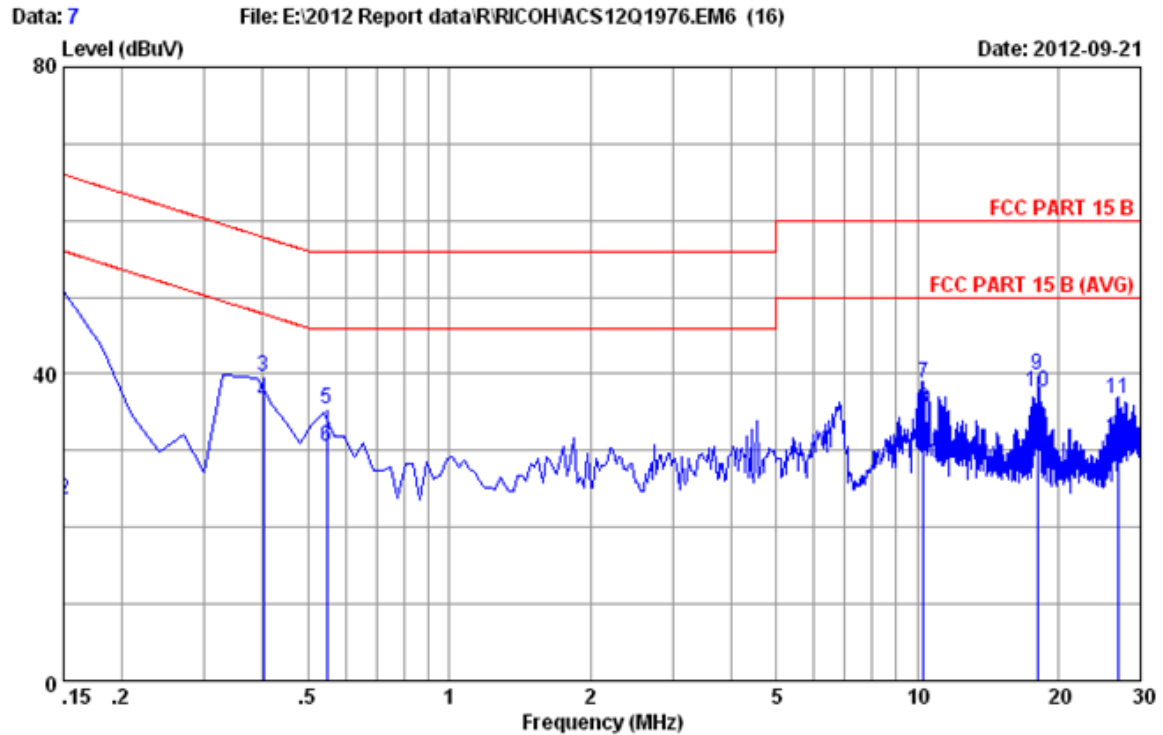
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :8
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :G3-1:TX
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	32.80	52.68	66.00	13.32	QP
2	0.15000	9.95	9.93	4.00	23.88	56.00	32.12	Average
3	0.40100	9.82	9.94	22.90	42.66	57.83	15.17	QP
4	0.40100	9.82	9.94	18.00	37.76	47.83	10.07	Average
5	6.785	9.79	9.96	21.60	41.35	60.00	18.65	QP
6	6.785	9.79	9.96	17.80	37.55	50.00	12.45	Average
7	11.310	9.87	9.99	20.50	40.36	60.00	19.64	QP
8	11.310	9.87	9.99	16.60	36.46	50.00	13.54	Average
9	18.193	9.99	10.04	19.31	39.34	60.00	20.66	QP
10	18.193	9.99	10.04	15.61	35.64	50.00	14.36	Average
11	27.341	10.02	10.14	17.90	38.06	60.00	21.94	QP
12	27.341	10.02	10.14	12.60	32.76	50.00	17.24	Average

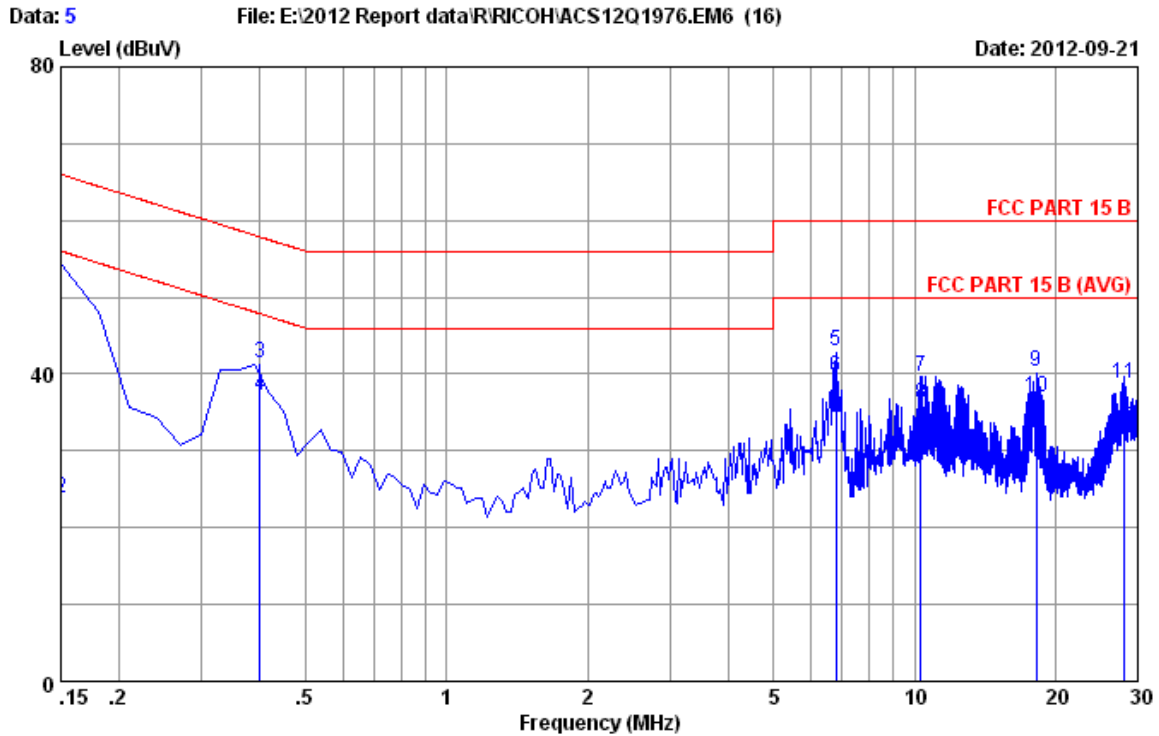
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :7
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :G3-1:TX
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	32.20	52.08	66.00	13.92	QP
2	0.15000	9.95	9.93	3.70	23.58	56.00	32.42	Average
3	0.40100	9.82	9.94	19.80	39.56	57.83	18.27	QP
4	0.40100	9.82	9.94	16.60	36.36	47.83	11.47	Average
5	0.54800	9.78	9.93	15.80	35.51	56.00	20.49	QP
6	0.54800	9.78	9.93	10.90	30.61	46.00	15.39	Average
7	10.327	9.84	9.98	18.90	38.72	60.00	21.28	QP
8	10.327	9.84	9.98	15.50	35.32	50.00	14.68	Average
9	18.095	9.99	10.04	19.90	39.93	60.00	20.07	QP
10	18.095	9.99	10.04	17.60	37.63	50.00	12.37	Average
11	26.949	10.02	10.14	16.70	36.86	60.00	23.14	QP
12	26.949	10.02	10.14	11.50	31.66	50.00	18.34	Average

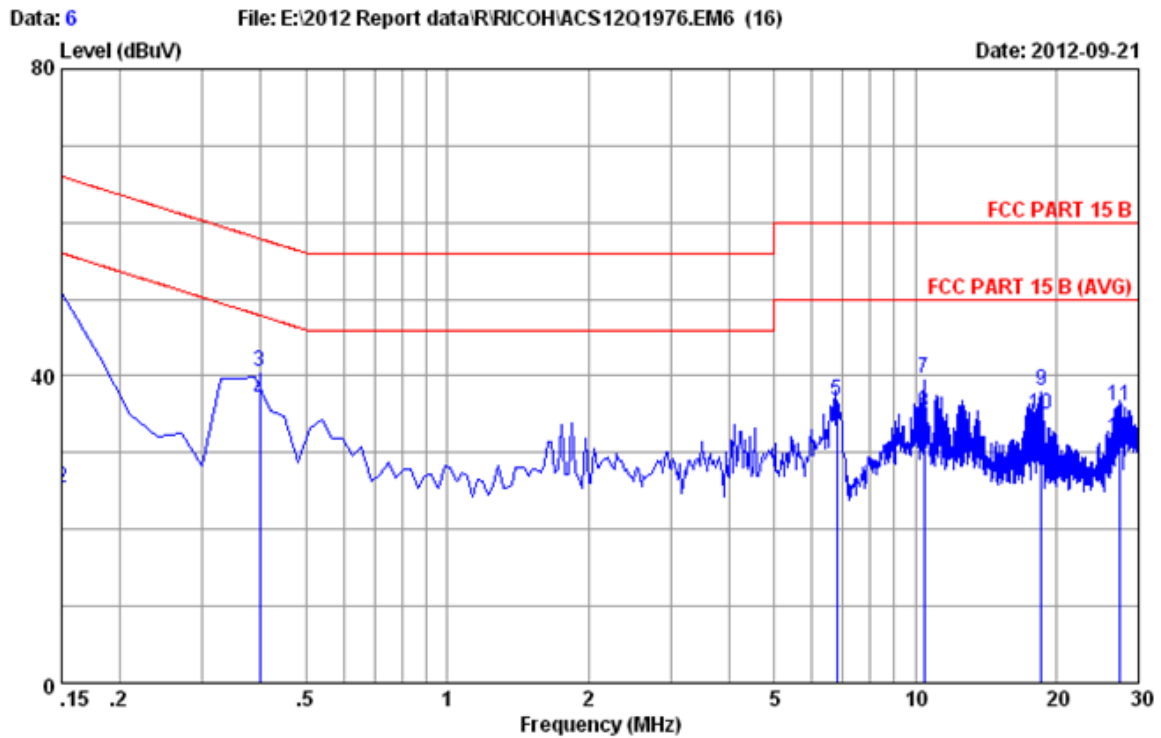
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :5
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :G3-1:RX
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	32.20	52.08	66.00	13.92	QP
2	0.15000	9.95	9.93	3.90	23.78	56.00	32.22	Average
3	0.39900	9.82	9.94	21.60	41.36	57.87	16.51	QP
4	0.39900	9.82	9.94	17.50	37.26	47.87	10.61	Average
5	6.785	9.79	9.96	23.30	43.05	60.00	16.95	QP
6	6.785	9.79	9.96	19.90	39.65	50.00	10.35	Average
7	10.325	9.84	9.98	19.80	39.62	60.00	20.38	QP
8	10.325	9.84	9.98	16.20	36.02	50.00	13.98	Average
9	18.197	9.99	10.04	20.31	40.34	60.00	19.66	QP
10	18.197	9.99	10.04	16.91	36.94	50.00	13.06	Average
11	27.932	10.02	10.15	18.50	38.67	60.00	21.33	QP
12	27.932	10.02	10.15	12.80	32.97	50.00	17.03	Average

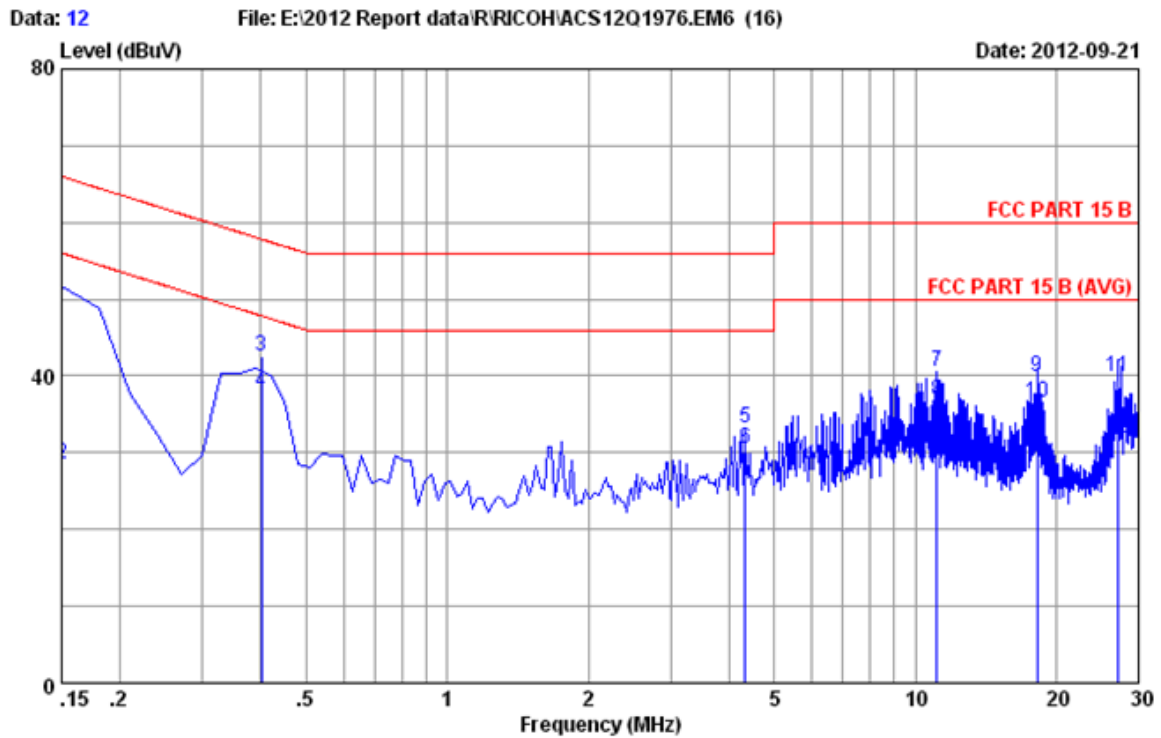
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :6
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :G3-1:RX
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.20	53.08	66.00	12.92	QP
2	0.15000	9.95	9.93	5.60	25.48	56.00	30.52	Average
3	0.39700	9.82	9.94	20.90	40.66	57.92	17.26	QP
4	0.39700	9.82	9.94	16.90	36.66	47.92	11.26	Average
5	6.787	9.79	9.96	17.00	36.75	60.00	23.25	QP
6	6.787	9.79	9.96	13.60	33.35	50.00	16.65	Average
7	10.427	9.84	9.98	19.81	39.63	60.00	20.37	QP
8	10.427	9.84	9.98	15.31	35.13	50.00	14.87	Average
9	18.597	9.99	10.05	17.99	38.03	60.00	21.97	QP
10	18.597	9.99	10.05	14.99	35.03	50.00	14.97	Average
11	27.242	10.02	10.14	16.00	36.16	60.00	23.84	QP
12	27.242	10.02	10.14	11.60	31.76	50.00	18.24	Average

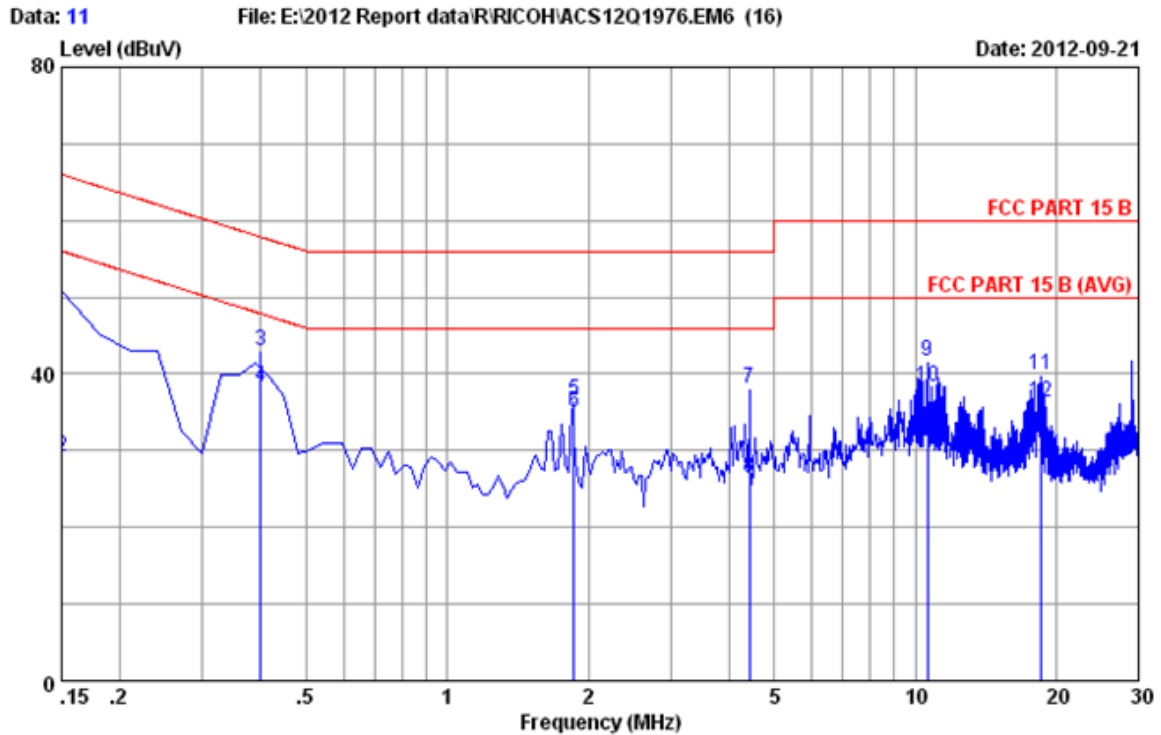
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :12
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Giga Print And Scan
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.50	53.38	66.00	12.62	QP
2	0.15000	9.95	9.93	8.70	28.58	56.00	27.42	Average
3	0.40100	9.82	9.94	22.90	42.66	57.83	15.17	QP
4	0.40100	9.82	9.94	18.10	37.86	47.83	9.97	Average
5	4.325	9.78	9.95	13.50	33.23	56.00	22.77	QP
6	4.325	9.78	9.95	10.80	30.53	46.00	15.47	Average
7	11.115	9.87	9.99	20.79	40.65	60.00	19.35	QP
8	11.115	9.87	9.99	16.89	36.75	50.00	13.25	Average
9	18.194	9.99	10.04	19.81	39.84	60.00	20.16	QP
10	18.194	9.99	10.04	16.51	36.54	50.00	13.46	Average
11	27.148	10.02	10.14	19.80	39.96	60.00	20.04	QP
12	27.148	10.02	10.14	11.80	31.96	50.00	18.04	Average

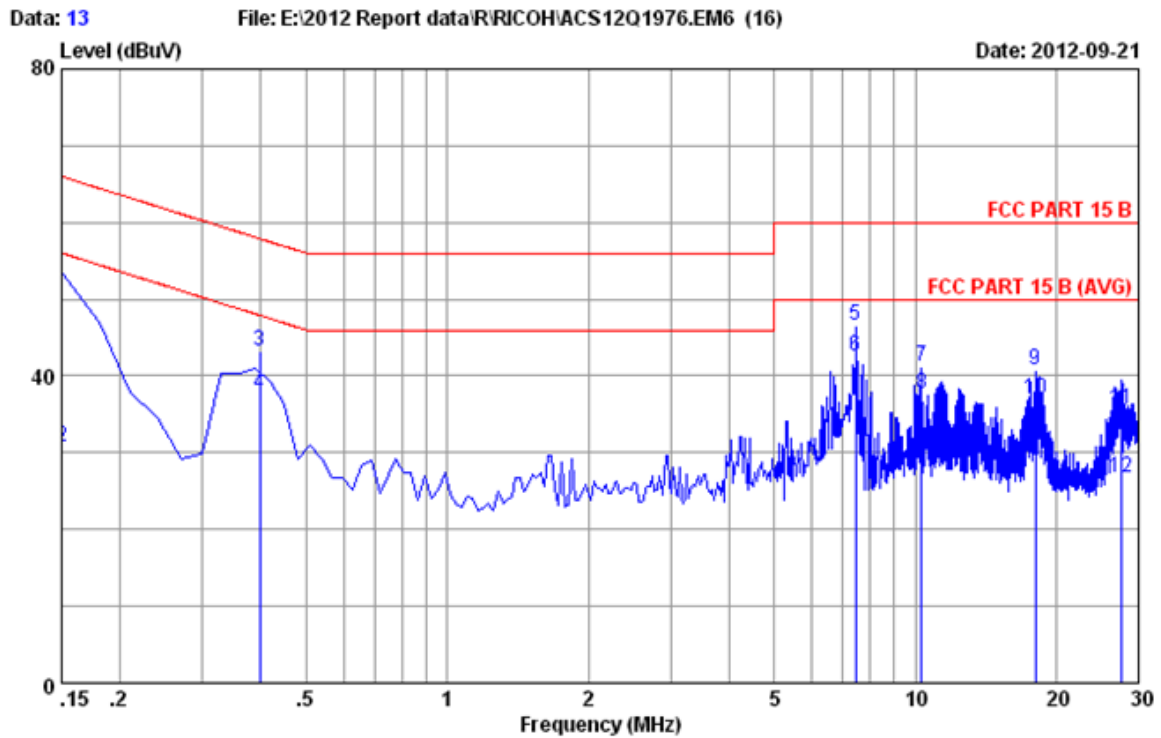
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :11
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Giga Print And Scan
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.10	52.98	66.00	13.02	QP
2	0.15000	9.95	9.93	9.30	29.18	56.00	26.82	Average
3	0.40000	9.82	9.94	23.30	43.06	57.85	14.79	QP
4	0.40000	9.82	9.94	18.60	38.36	47.85	9.49	Average
5	1.869	9.76	9.95	16.80	36.51	56.00	19.49	QP
6	1.869	9.76	9.95	15.20	34.91	46.00	11.09	Average
7	4.427	9.78	9.95	18.29	38.02	56.00	17.98	QP
8	4.427	9.78	9.95	6.89	26.62	46.00	19.38	Average
9	10.623	9.85	9.98	21.90	41.73	60.00	18.27	QP
10	10.623	9.85	9.98	18.50	38.33	50.00	11.67	Average
11	18.491	9.99	10.04	19.80	39.83	60.00	20.17	QP
12	18.491	9.99	10.04	16.30	36.33	50.00	13.67	Average

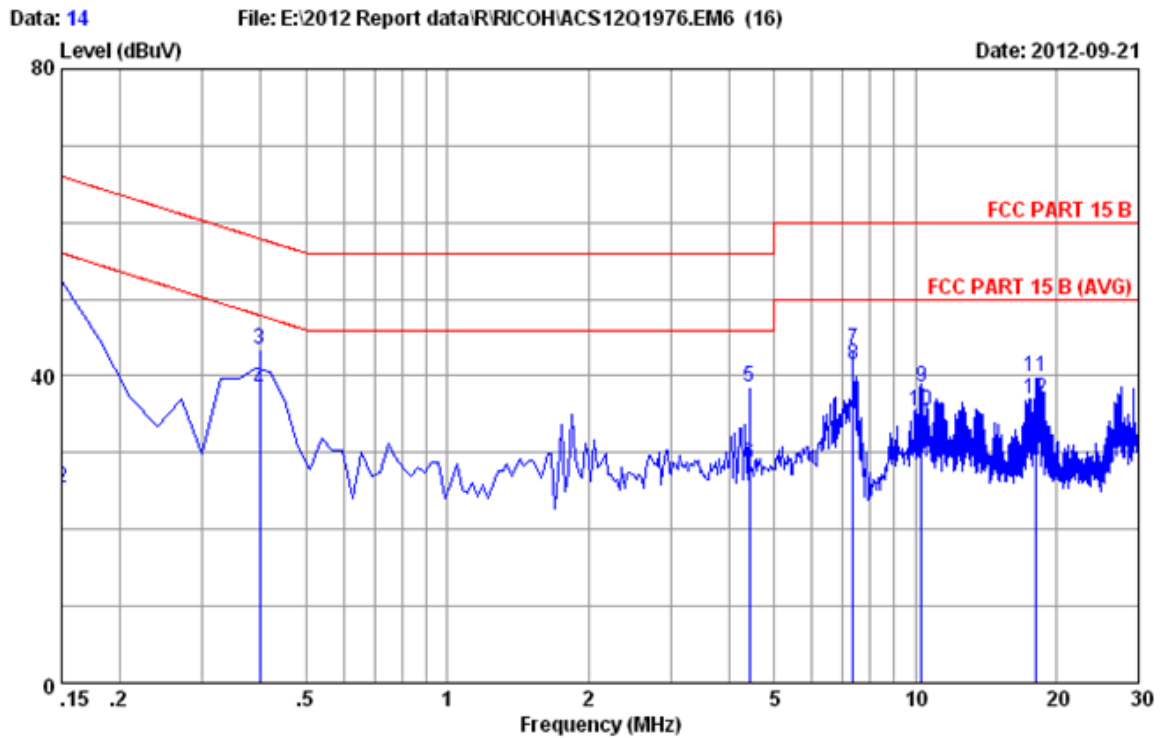
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :13
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Bluetooth Print+USB R/W
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.90	53.78	66.00	12.22	QP
2	0.15000	9.95	9.93	10.90	30.78	56.00	25.22	Average
3	0.39700	9.82	9.94	23.50	43.26	57.92	14.66	QP
4	0.39700	9.82	9.94	17.90	37.66	47.92	10.26	Average
5	7.473	9.80	9.96	26.90	46.66	60.00	13.34	QP
6	7.473	9.80	9.96	22.90	42.66	50.00	7.34	Average
7	10.328	9.84	9.98	21.50	41.32	60.00	18.68	QP
8	10.328	9.84	9.98	17.80	37.62	50.00	12.38	Average
9	18.097	9.99	10.04	20.80	40.83	60.00	19.17	QP
10	18.097	9.99	10.04	16.90	36.93	50.00	13.07	Average
11	27.676	10.02	10.15	15.50	35.67	60.00	24.33	QP
12	27.676	10.02	10.15	6.60	26.77	50.00	23.23	Average

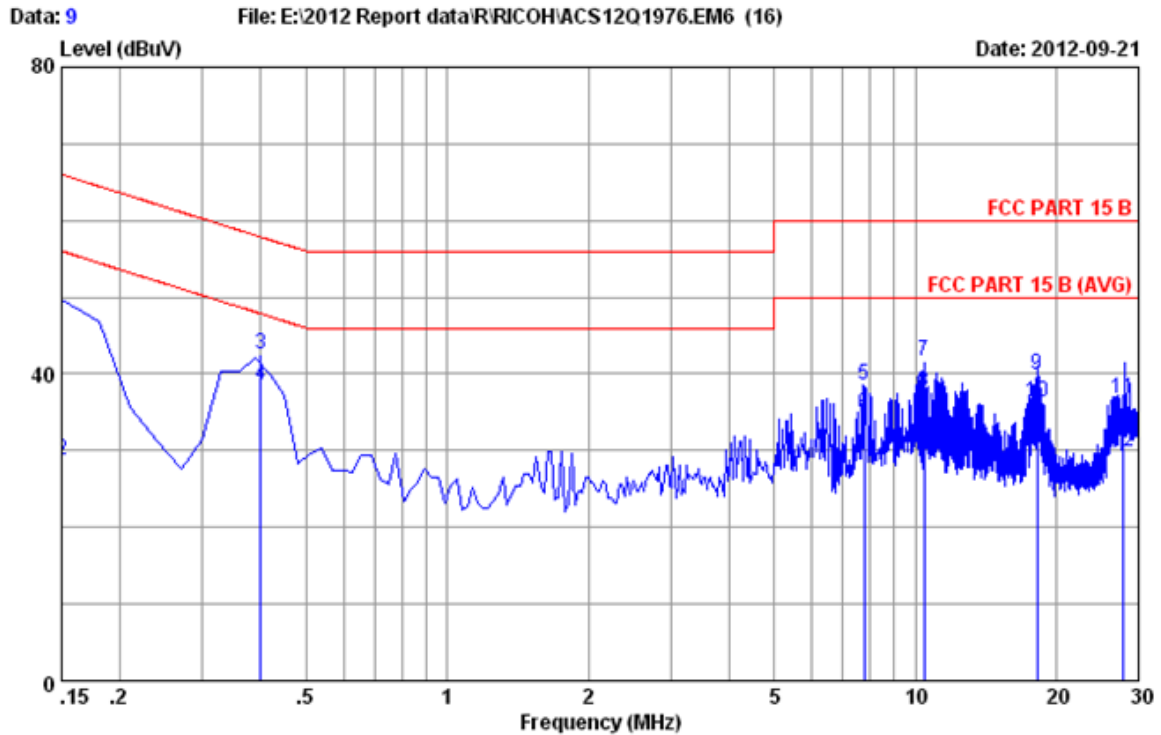
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :14
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :Bluetooth Print+USB R/W
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.70	53.58	66.00	12.42	QP
2	0.15000	9.95	9.93	5.50	25.38	56.00	30.62	Average
3	0.39800	9.82	9.94	23.70	43.46	57.90	14.44	QP
4	0.39800	9.82	9.94	18.30	38.06	47.90	9.84	Average
5	4.426	9.78	9.95	18.89	38.62	56.00	17.38	QP
6	4.426	9.78	9.95	8.89	28.62	46.00	17.38	Average
7	7.378	9.80	9.96	23.80	43.56	60.00	16.44	QP
8	7.378	9.80	9.96	21.60	41.36	50.00	8.64	Average
9	10.328	9.84	9.98	18.80	38.62	60.00	21.38	QP
10	10.328	9.84	9.98	15.60	35.42	50.00	14.58	Average
11	18.095	9.99	10.04	19.90	39.93	60.00	20.07	QP
12	18.095	9.99	10.04	16.90	36.93	50.00	13.07	Average

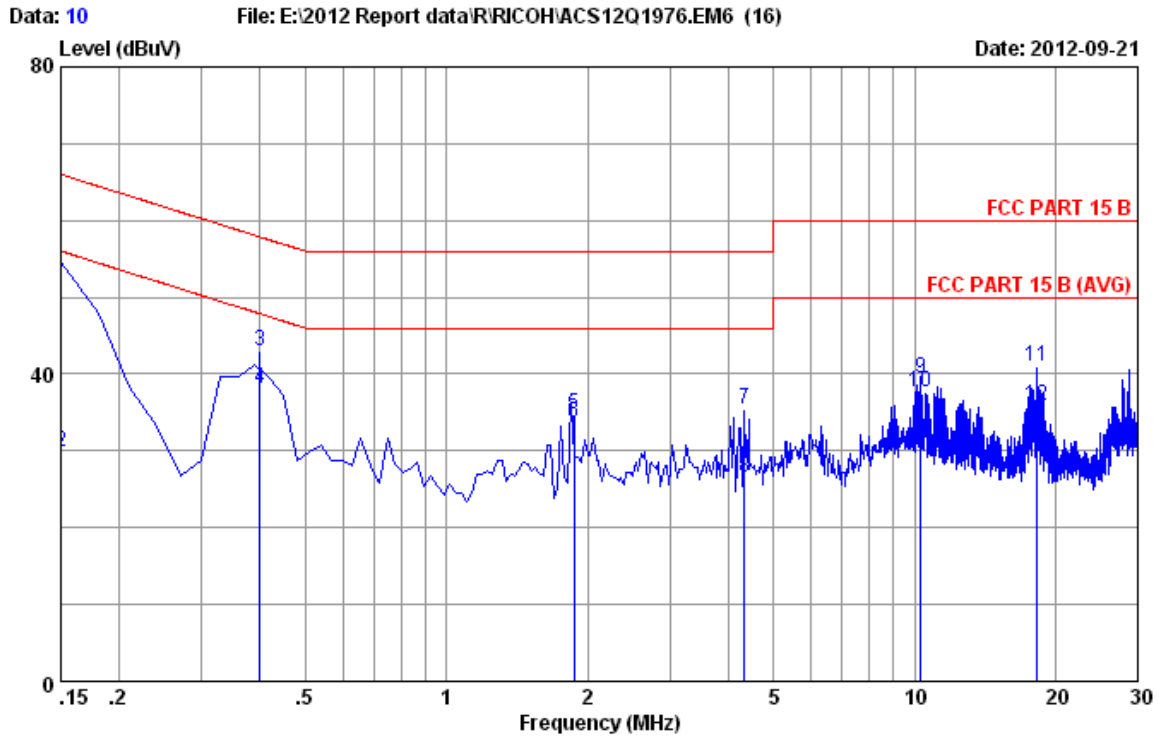
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :9
 Dis./Lisn **: 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :W-LAN Print And Scan
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.50	53.38	66.00	12.62	QP
2	0.15000	9.95	9.93	8.80	28.68	56.00	27.32	Average
3	0.40000	9.82	9.94	22.90	42.66	57.85	15.19	QP
4	0.40000	9.82	9.94	18.90	38.66	47.85	9.19	Average
5	7.772	9.80	9.96	18.70	38.46	60.00	21.54	QP
6	7.772	9.80	9.96	15.00	34.76	50.00	15.24	Average
7	10.426	9.84	9.98	21.91	41.73	60.00	18.27	QP
8	10.426	9.84	9.98	17.81	37.63	50.00	12.37	Average
9	18.197	9.99	10.04	19.91	39.94	60.00	20.06	QP
10	18.197	9.99	10.04	16.31	36.34	50.00	13.66	Average
11	27.925	10.02	10.15	16.60	36.77	60.00	23.23	QP
12	27.925	10.02	10.15	9.80	29.97	50.00	20.03	Average

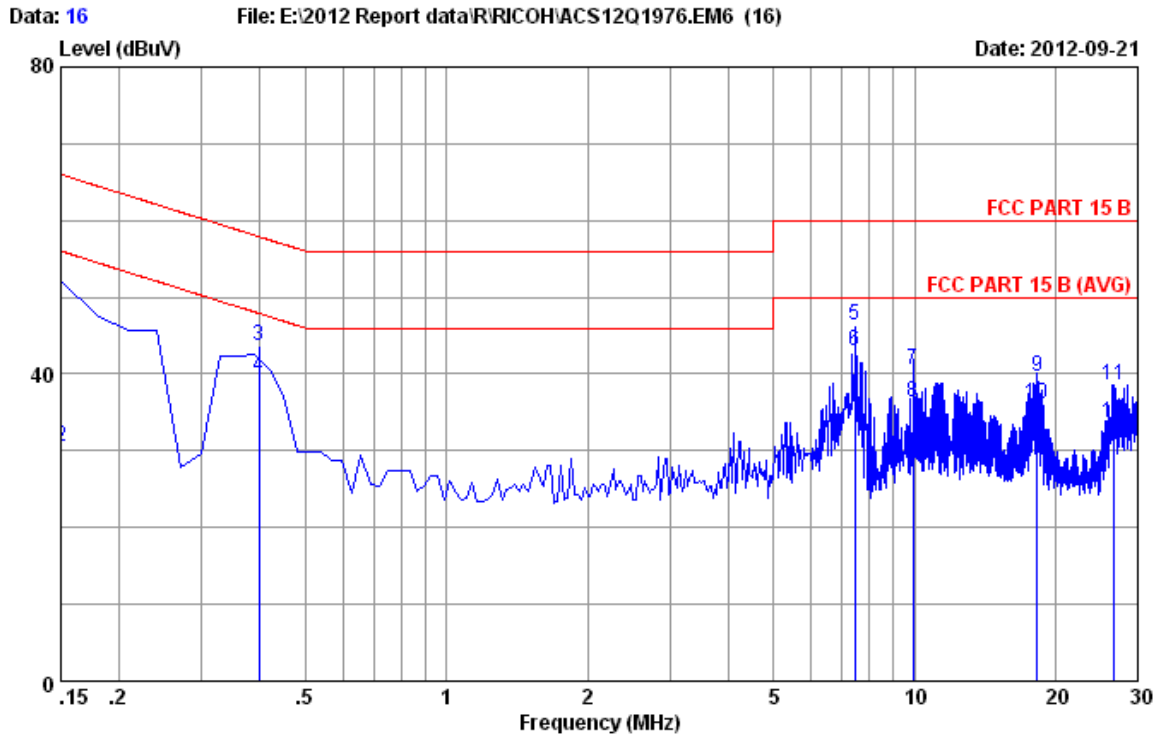
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :10
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :W-LAN Print And Scan
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.50	53.38	66.00	12.62	QP
2	0.15000	9.95	9.93	9.90	29.78	56.00	26.22	Average
3	0.40000	9.82	9.94	23.30	43.06	57.85	14.79	QP
4	0.40000	9.82	9.94	18.30	38.06	47.85	9.79	Average
5	1.871	9.76	9.95	15.00	34.71	56.00	21.29	QP
6	1.871	9.76	9.95	13.90	33.61	46.00	12.39	Average
7	4.329	9.78	9.95	15.79	35.52	56.00	20.48	QP
8	4.329	9.78	9.95	6.89	26.62	46.00	19.38	Average
9	10.326	9.84	9.98	19.60	39.42	60.00	20.58	QP
10	10.326	9.84	9.98	17.90	37.72	50.00	12.28	Average
11	18.295	9.99	10.04	20.90	40.93	60.00	19.07	QP
12	18.295	9.99	10.04	15.90	35.93	50.00	14.07	Average

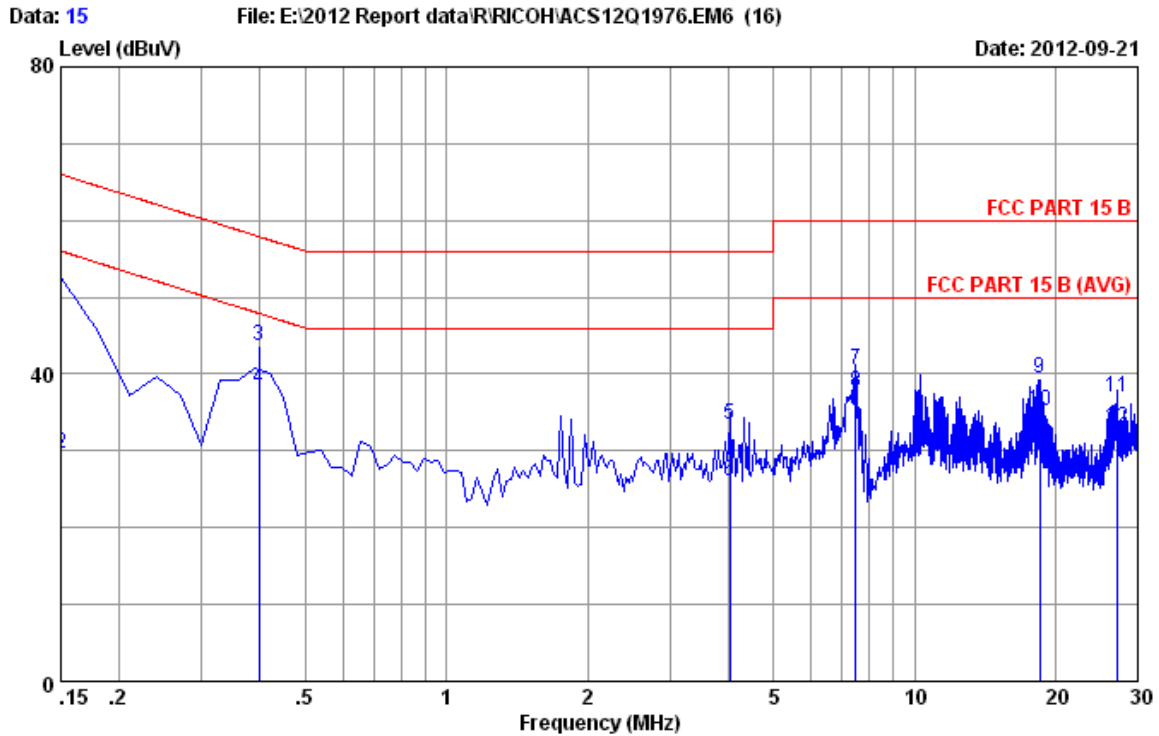
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :Audix No.2 Conduction Data No :16
 Dis./Lisn :++ 12 ENV4200 L1 LISN phase:LINE
 Limit :FCC PART 15 B
 Env./Ins. :25.6*C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.70	53.58	66.00	12.42	QP
2	0.15000	9.95	9.93	10.70	30.58	56.00	25.42	Average
3	0.39800	9.82	9.94	23.90	43.66	57.90	14.24	QP
4	0.39800	9.82	9.94	19.90	39.66	47.90	8.24	Average
5	7.473	9.80	9.96	26.50	46.26	60.00	13.74	QP
6	7.473	9.80	9.96	23.20	42.96	50.00	7.04	Average
7	9.934	9.83	9.98	20.80	40.61	60.00	19.39	QP
8	9.934	9.83	9.98	16.60	36.41	50.00	13.59	Average
9	18.295	9.99	10.04	19.71	39.74	60.00	20.26	QP
10	18.295	9.99	10.04	16.01	36.04	50.00	13.96	Average
11	26.554	10.02	10.14	18.49	38.65	60.00	21.35	QP
12	26.554	10.02	10.14	13.49	33.65	50.00	16.35	Average

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.



Site no :Audix No.2 Conduction Data No :15
 Dis./Lisn **: 12 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :25.6°C/62% Engineer :Nick_Huang
 EUT :Multifunction Digital Product(Copier/Printer/Scanner)
 Power Rating :AC 120V/60Hz
 Test Mode :IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	9.95	9.93	33.00	52.88	66.00	13.12	QP
2	0.15000	9.95	9.93	9.80	29.68	56.00	26.32	Average
3	0.39800	9.82	9.94	23.90	43.66	57.90	14.24	QP
4	0.39800	9.82	9.94	18.30	38.06	47.90	9.84	Average
5	4.033	9.77	9.95	13.80	33.52	56.00	22.48	QP
6	4.033	9.77	9.95	6.30	26.02	46.00	19.98	Average
7	7.475	9.80	9.96	20.90	40.66	60.00	19.34	QP
8	7.475	9.80	9.96	17.80	37.56	50.00	12.44	Average
9	18.485	9.99	10.04	19.50	39.53	60.00	20.47	QP
10	18.485	9.99	10.04	15.20	35.23	50.00	14.77	Average
11	27.043	10.02	10.14	16.80	36.96	60.00	23.04	QP
12	27.043	10.02	10.14	12.80	32.96	50.00	17.04	Average

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

4.1.1. For frequency range 30MHz~1000MHz

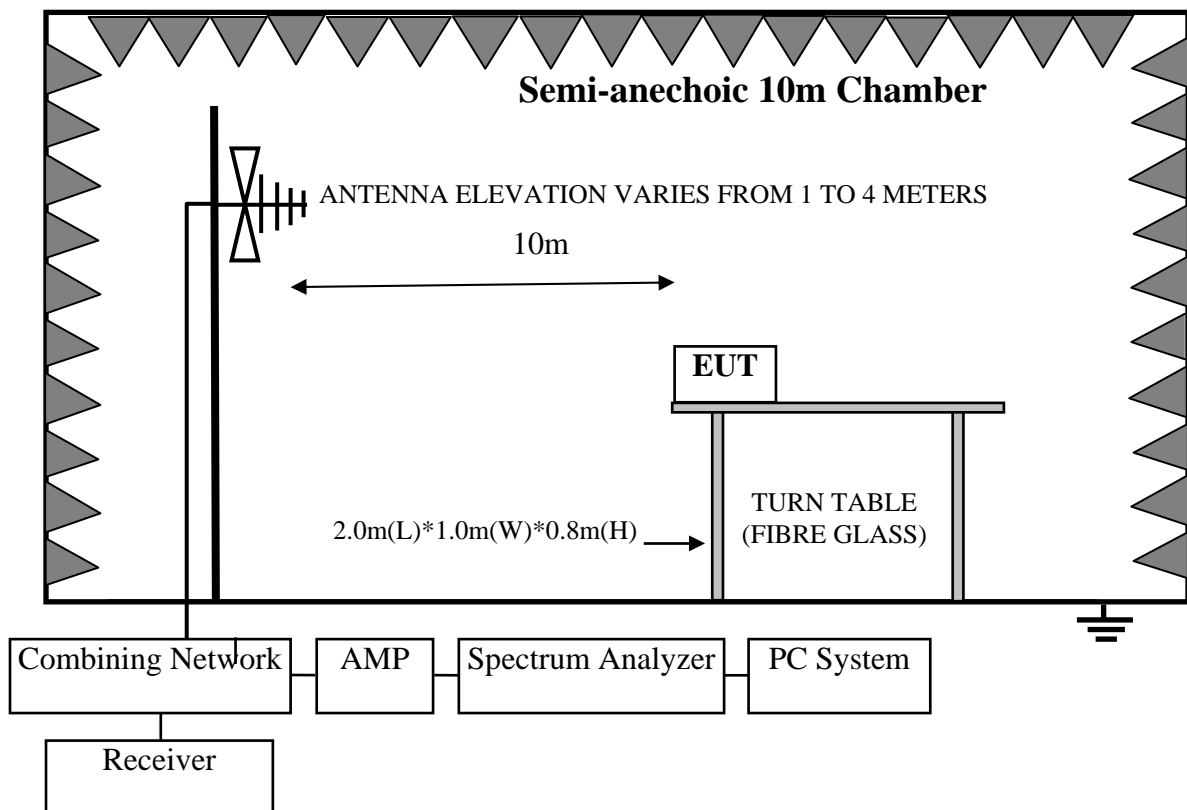
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	10m Chamber	AUDIX	N/A	N/A	Nov.28,11	1 Year
2	EMC Analyzer	Agilent	E7405A	MY45116588	Oct.31, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.31, 11	1 Year
4	Amplifier	Agilent	8447D	2944A10684	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6112D	25237	Aug.29, 11	2 Year
6	RF Cable	MIYAZAKI	CFD400-NL	10m Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 12	1 Year
8	Coaxial Switch	Anritsu	MP59B	6200766905	May.08, 12	1 Year

4.1.2. For frequency range 1GHz~2GHz

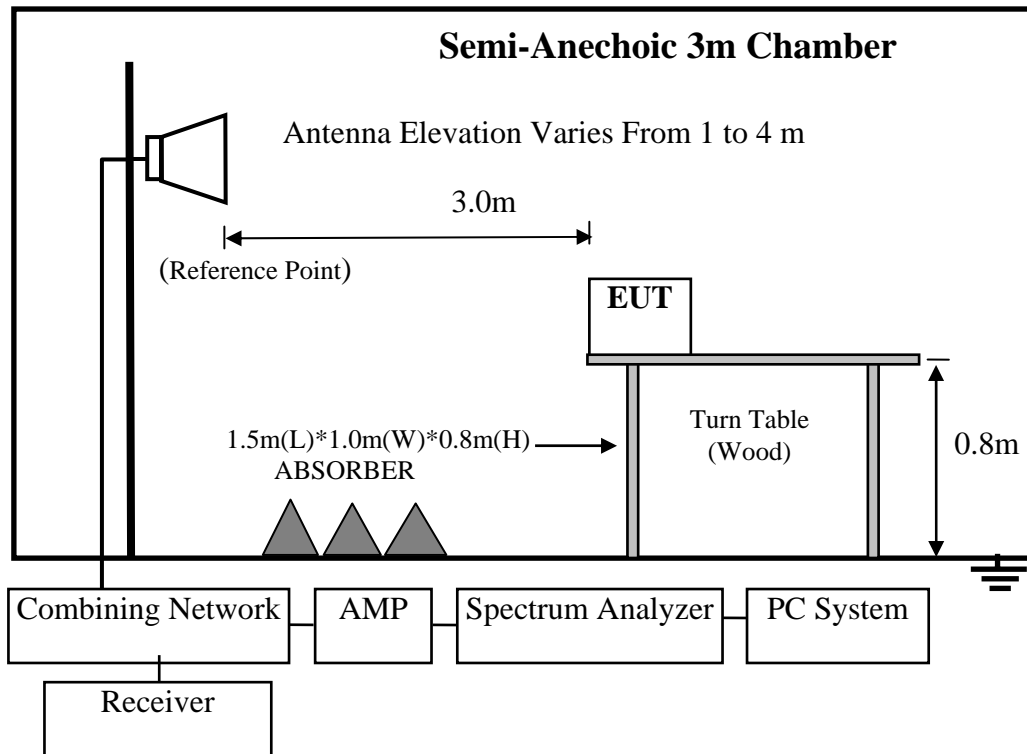
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	June.05, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000Mz



For frequency range 1GHz-2GHz



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
Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)
- (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 configurations of EUT are listed in Section 3.4

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed 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 RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

4.7. Radiated Disturbance Test Results

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

EUT: Multifunction Digital Product (Copier/ Printer/ Scanner)
Model No. : MP 2501SP

For frequency range 30MHz~1000MHz

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Sep.22, 2012 Temperature: 24°C Humidity: 56%

For frequency range 1GHz~2GHz

The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

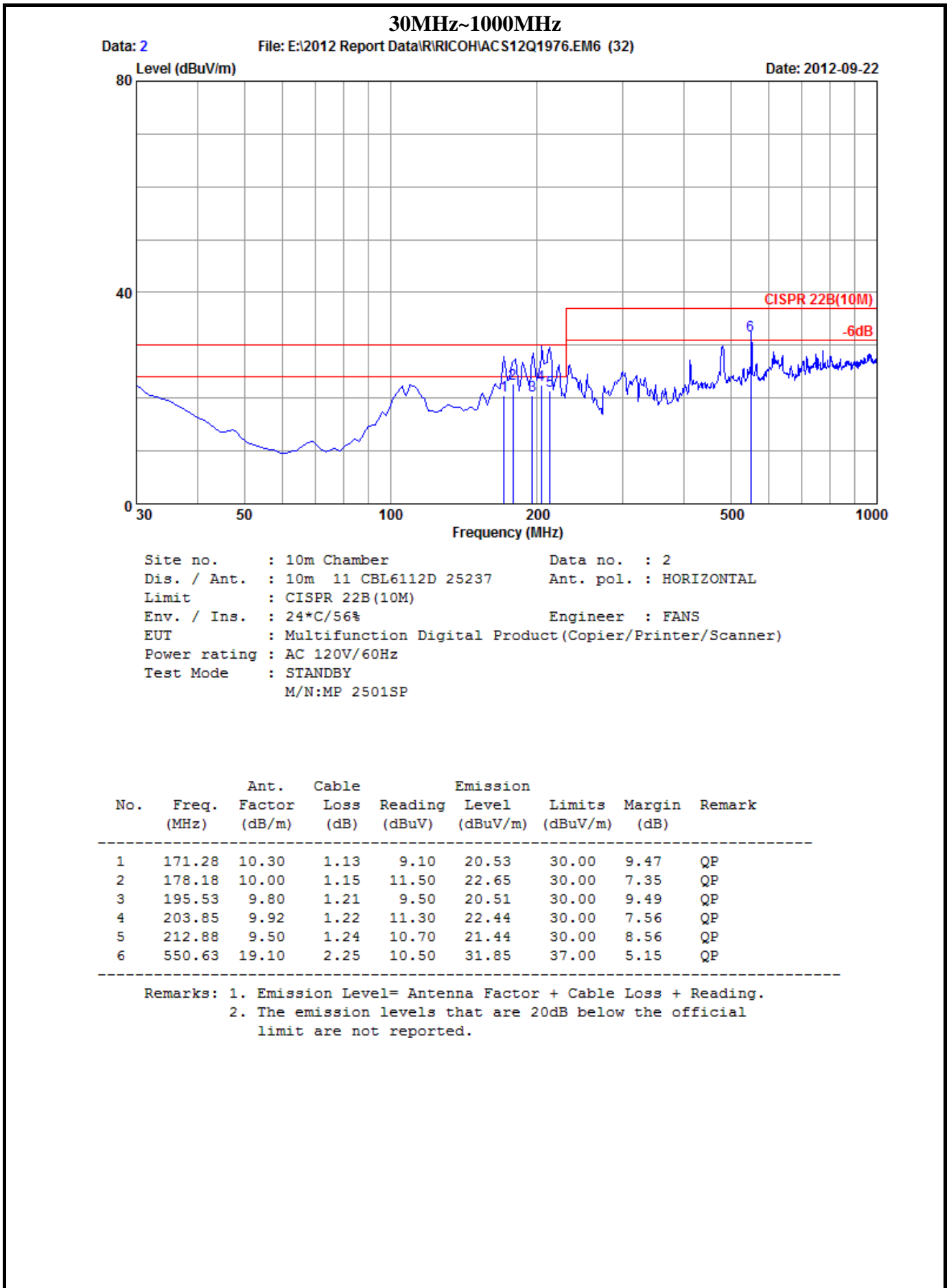
Test Date: Aug.02, 2012 Temperature: 24°C Humidity: 56%

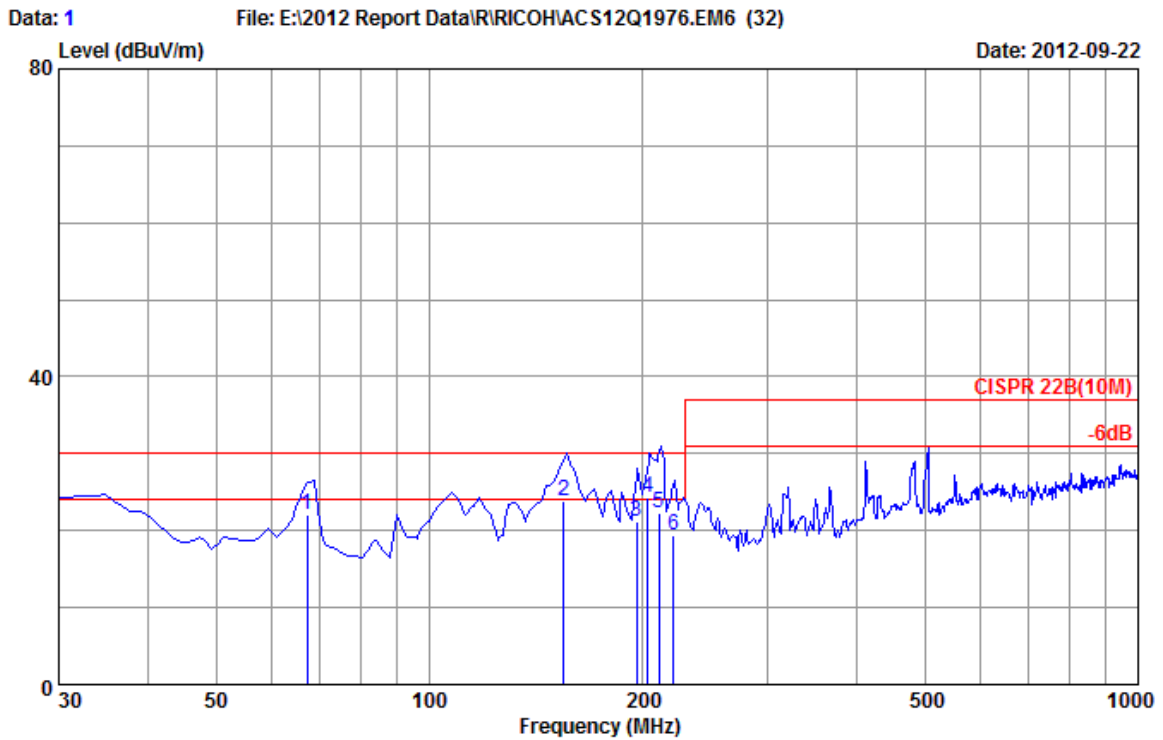
4.7.1. Operating modes :

1	Standby	(RE)
2	Copy	(RE)
3	Giga Print & Scan	(RE)
4	G3-1:Tx	(RE)
5	G3-1:Rx	(RE)
6	IEEE1284+USB2.0 Print+SD R/W(test program)	(RE)
7	Bluetooth Print+USB R/W(test program)	(RE)
8	W-LAN Print & Scan	(RE)

4.7.2.The combination of apparatus, and the mode of operation

Model name	Operating Mode															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(1) Copy Machine	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(2)Bank								○								○
(3)Bank	○	○	○	○	○	○	○		○	○	○	○	○	○	○	
(4)1BIN Unit	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(5)HDD	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(6)IEEE 1284						○								○		
(7)IEEE 802.11a/g								○								○
(8)Bluetooth							○								○	
(9)ICIB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(10)DIMM (1.5GB)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(11)FCU	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(12)MLB	○	○	○	○	○		○		○	○	○	○		○		
(13)MKB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
(14) Handset	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

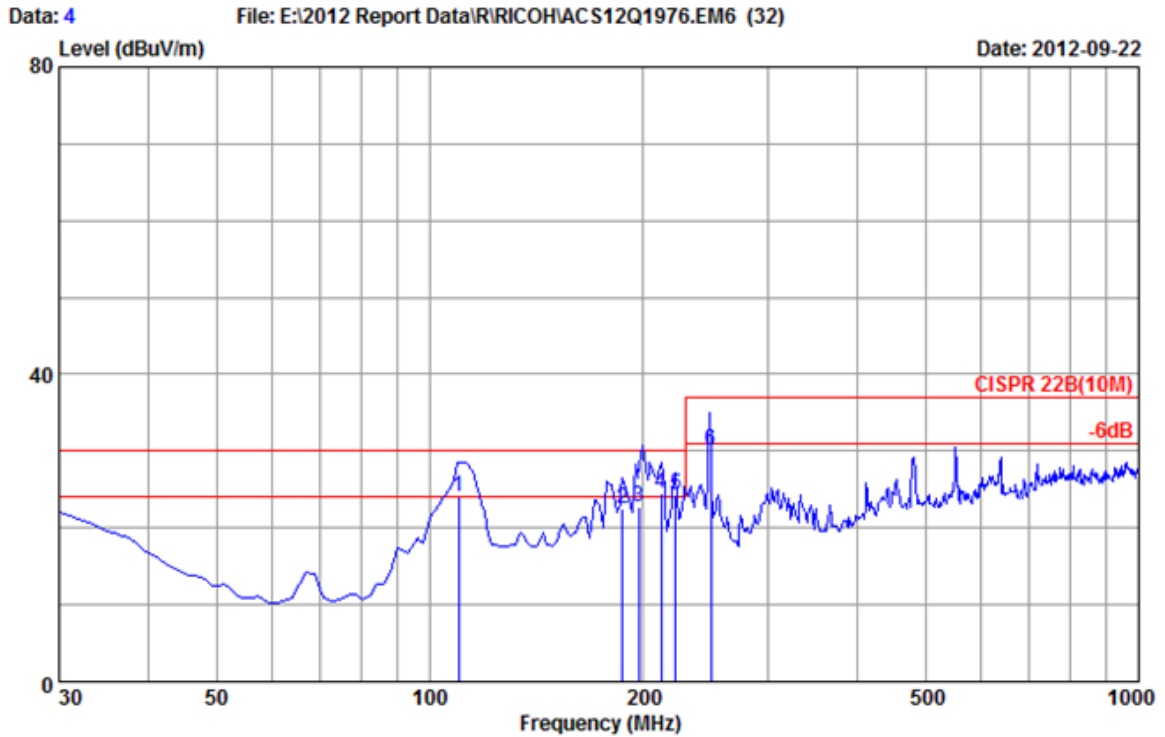




Site no. : 10m Chamber Data no. : 1
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : STANDBY
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	67.15	7.15	0.75	14.10	22.00	30.00	8.00	QP
2	154.67	11.05	1.10	11.70	23.85	30.00	6.15	QP
3	196.28	9.80	1.21	10.09	21.10	30.00	8.90	QP
4	203.10	9.94	1.22	13.20	24.36	30.00	5.64	QP
5	210.79	9.80	1.24	11.20	22.24	30.00	7.76	QP
6	221.21	9.86	1.26	8.20	19.32	30.00	10.68	QP

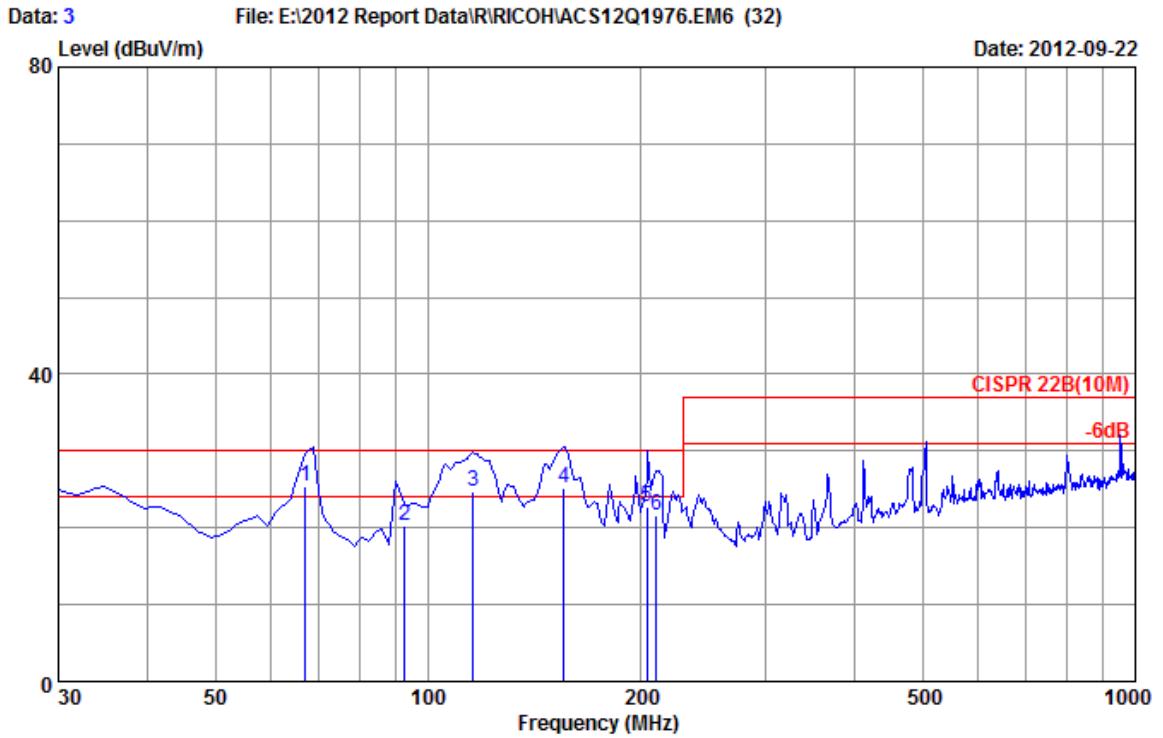
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 4
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : COPY
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	109.85	12.70	0.98	10.40	24.08	30.00	5.92	QP
2	187.14	9.85	1.17	11.44	22.46	30.00	7.54	QP
3	197.43	9.90	1.21	11.59	22.70	30.00	7.30	QP
4	212.00	9.60	1.24	13.66	24.50	30.00	5.50	QP
5	222.16	9.92	1.26	13.04	24.22	30.00	5.78	QP
6	249.12	12.20	1.33	16.60	30.13	37.00	6.87	QP

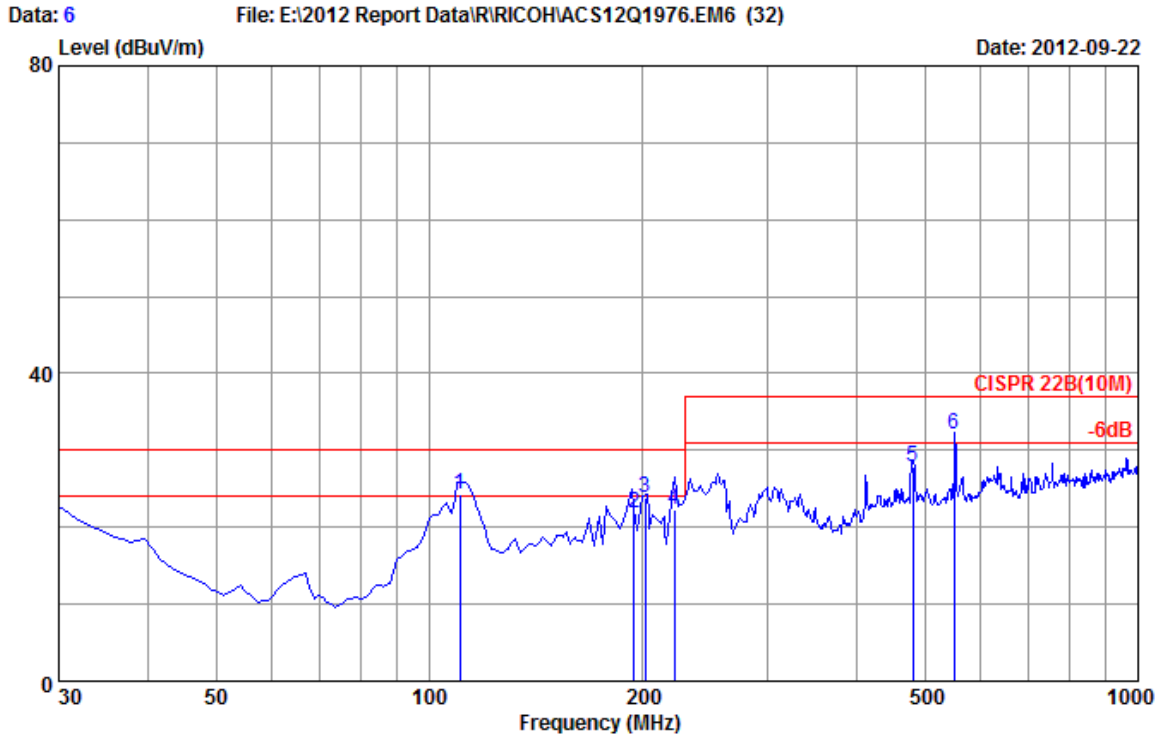
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 3
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24*C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : COPY
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	67.11	7.15	0.75	17.50	25.40	30.00	4.60	QP
2	92.65	10.75	0.92	8.60	20.27	30.00	9.73	QP
3	115.90	12.90	1.00	10.79	24.69	30.00	5.31	QP
4	155.45	11.05	1.10	13.10	25.25	30.00	4.75	QP
5	203.81	9.92	1.22	11.60	22.74	30.00	7.26	QP
6	210.23	9.80	1.24	10.50	21.54	30.00	8.46	QP

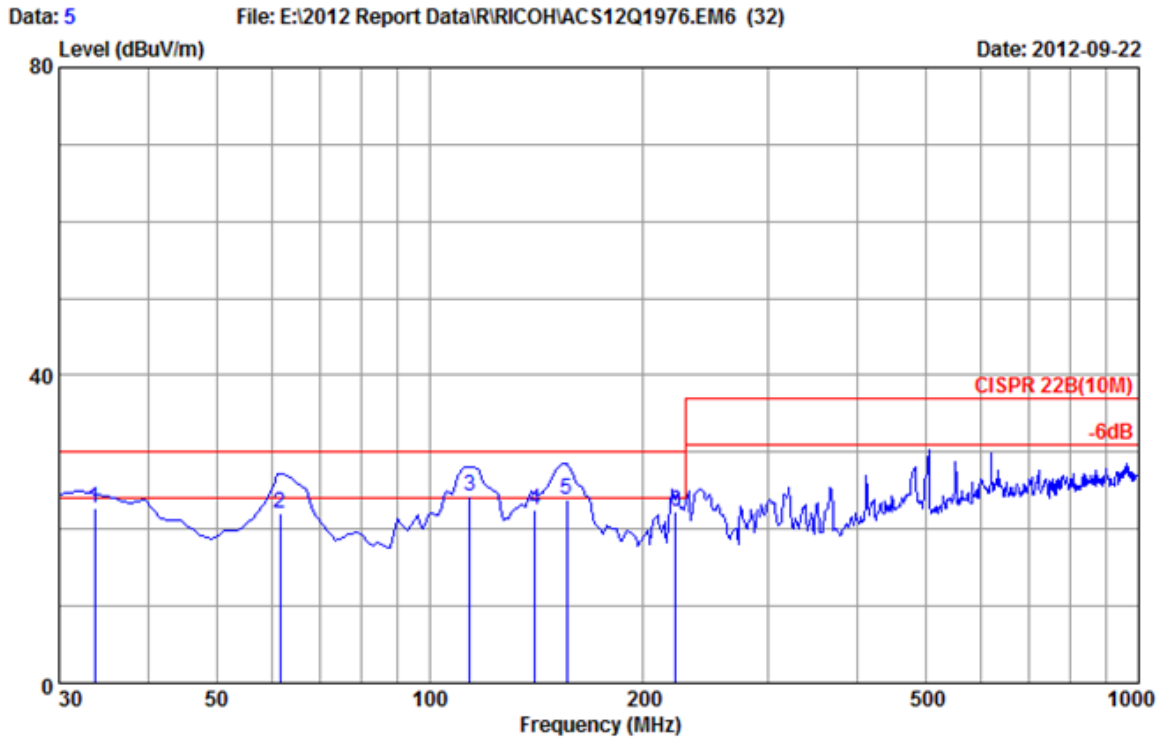
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 6
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:TX
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	110.40	12.77	0.98	10.59	24.34	30.00	5.66	QP
2	194.57	9.90	1.19	10.70	21.79	30.00	8.21	QP
3	201.85	9.96	1.21	12.69	23.86	30.00	6.14	QP
4	221.96	9.92	1.26	11.10	22.28	30.00	7.72	QP
5	481.16	17.40	2.06	8.40	27.86	37.00	9.14	QP
6	550.55	19.10	2.25	10.80	32.15	37.00	4.85	QP

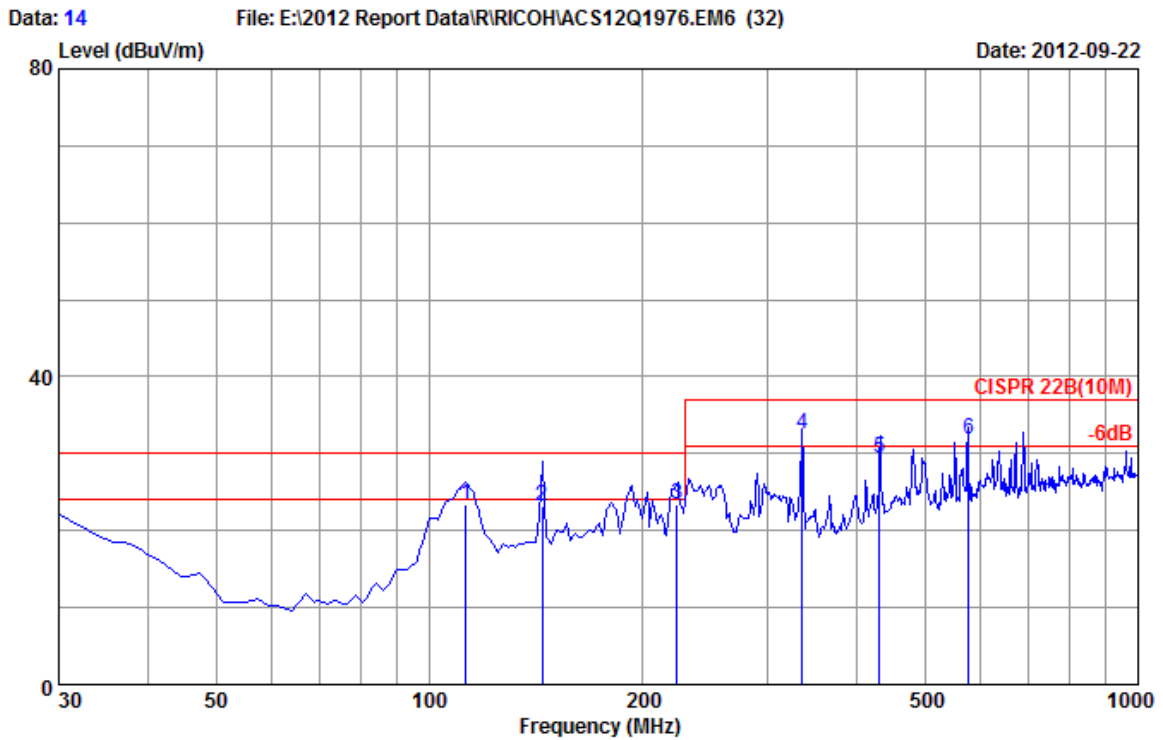
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 5
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:TX
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.70	17.20	0.53	5.10	22.83	30.00	7.17	QP
2	61.48	6.90	0.70	14.40	22.00	30.00	8.00	QP
3	113.93	12.90	1.00	10.40	24.30	30.00	5.70	QP
4	140.56	11.90	1.06	9.51	22.47	30.00	7.53	QP
5	156.18	11.00	1.10	11.80	23.90	30.00	6.10	QP
6	222.11	9.92	1.26	11.20	22.38	30.00	7.62	QP

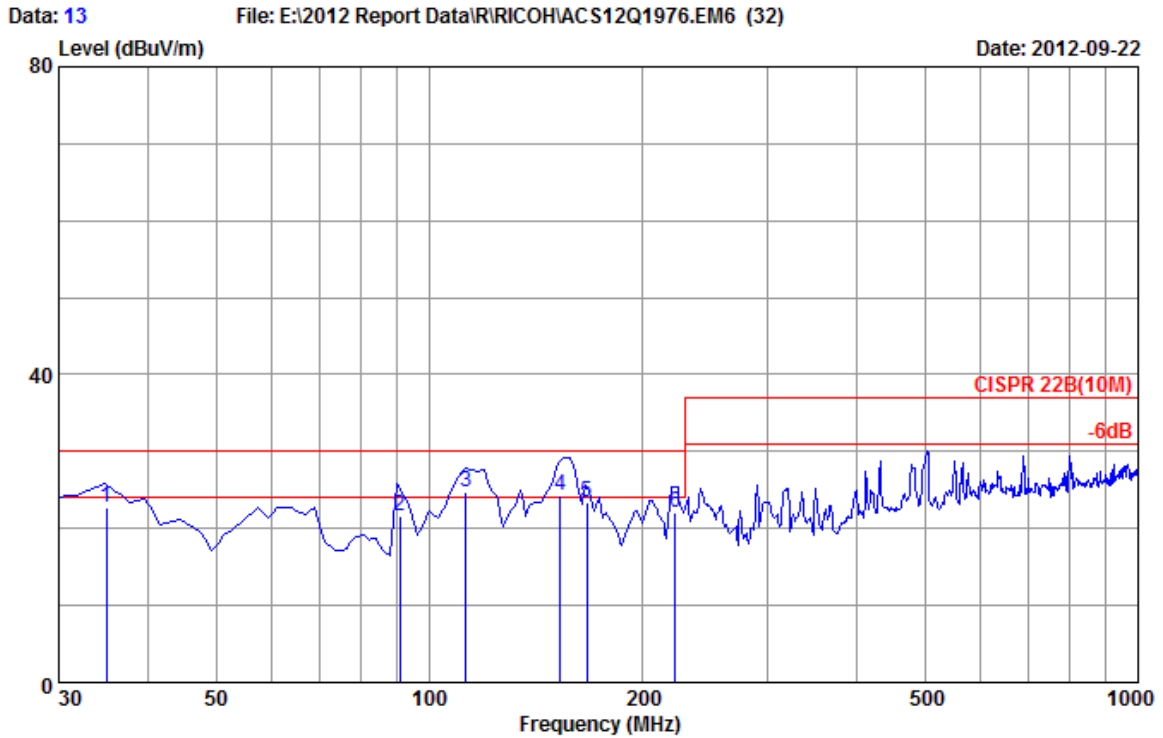
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 14
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:RX
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.60	12.90	1.00	9.59	23.49	30.00	6.51	QP
2	144.45	11.70	1.06	10.50	23.26	30.00	6.74	QP
3	223.40	9.98	1.27	12.20	23.45	30.00	6.55	QP
4	336.00	13.92	1.59	17.10	32.61	37.00	4.39	QP
5	432.00	16.37	1.90	11.09	29.36	37.00	7.64	QP
6	576.00	18.68	2.32	10.80	31.80	37.00	5.20	QP

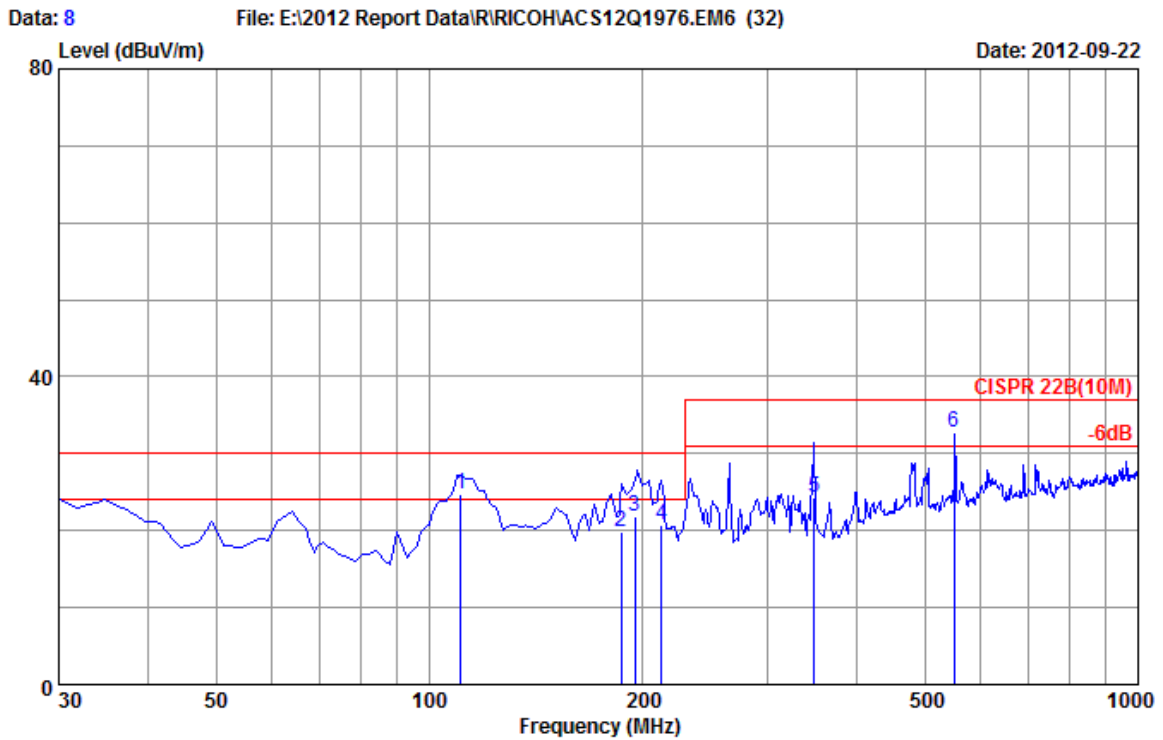
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 13
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:RX
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	34.98	16.55	0.57	5.60	22.72	30.00	7.28	QP
2	90.85	10.55	0.92	10.20	21.67	30.00	8.33	QP
3	112.60	12.90	1.00	10.90	24.80	30.00	5.20	QP
4	153.20	11.10	1.08	12.10	24.28	30.00	5.72	QP
5	166.65	10.40	1.12	11.90	23.42	30.00	6.58	QP
6	222.30	9.92	1.26	10.90	22.08	30.00	7.92	QP

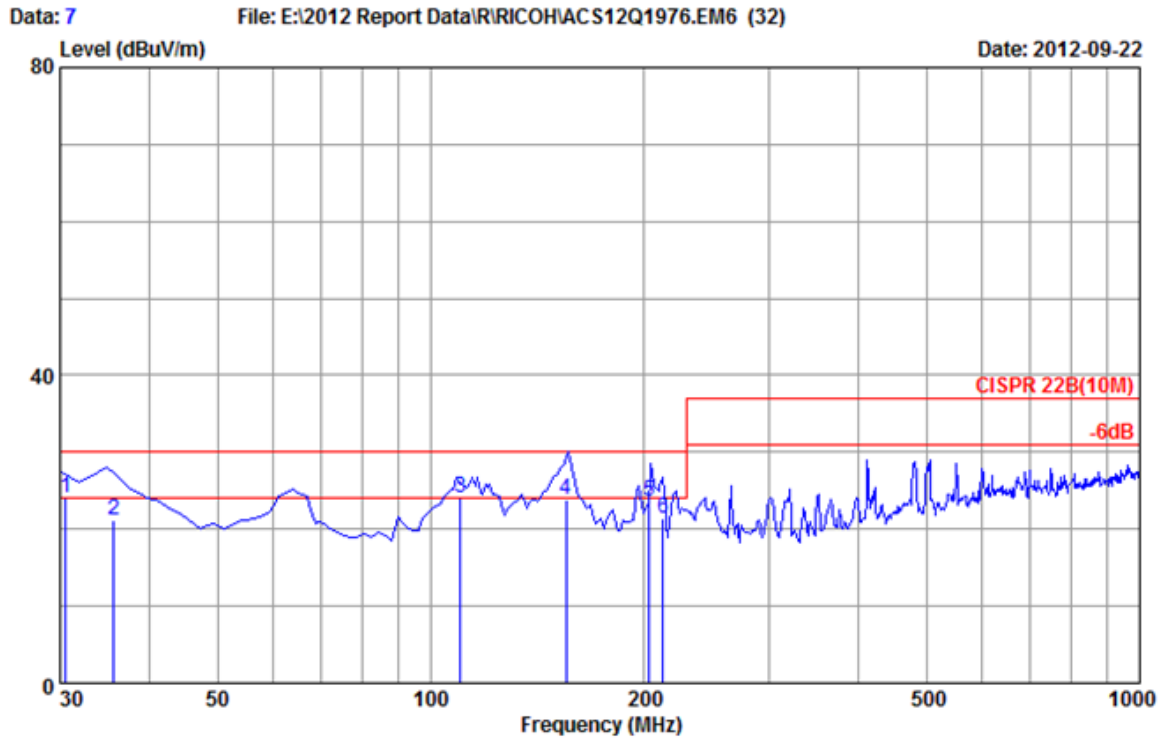
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 8
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Giga Print&Scan
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	110.60	12.77	0.98	10.97	24.72	30.00	5.28	QP
2	186.63	9.90	1.17	8.70	19.77	30.00	10.23	QP
3	194.95	9.90	1.19	10.80	21.89	30.00	8.11	QP
4	212.85	9.50	1.24	9.90	20.64	30.00	9.36	QP
5	349.45	14.36	1.64	8.20	24.20	37.00	12.80	QP
6	550.58	19.10	2.25	11.30	32.65	37.00	4.35	QP

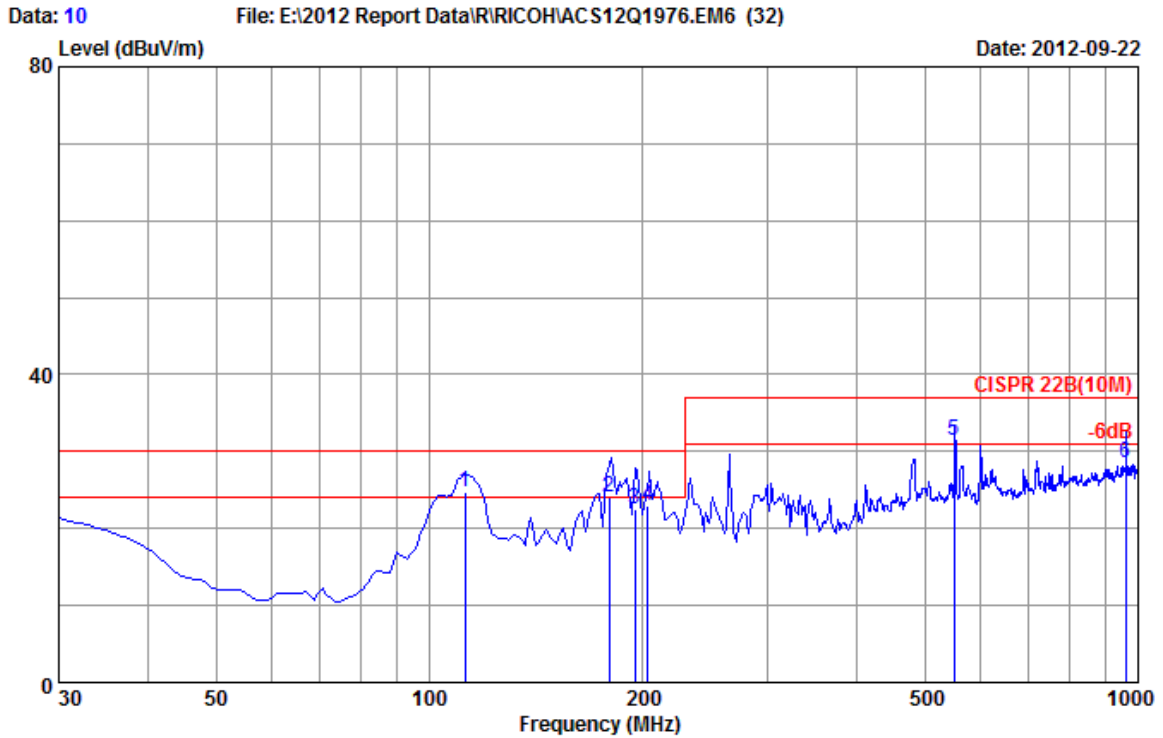
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 7
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Giga Print&Scan
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.54	19.05	0.53	4.40	23.98	30.00	6.02	QP
2	35.67	15.90	0.57	4.70	21.17	30.00	8.83	QP
3	110.00	12.70	0.98	10.30	23.98	30.00	6.02	QP
4	155.00	11.05	1.10	11.80	23.95	30.00	6.05	QP
5	203.10	9.94	1.22	12.40	23.56	30.00	6.44	QP
6	212.66	9.60	1.24	10.60	21.44	30.00	8.56	QP

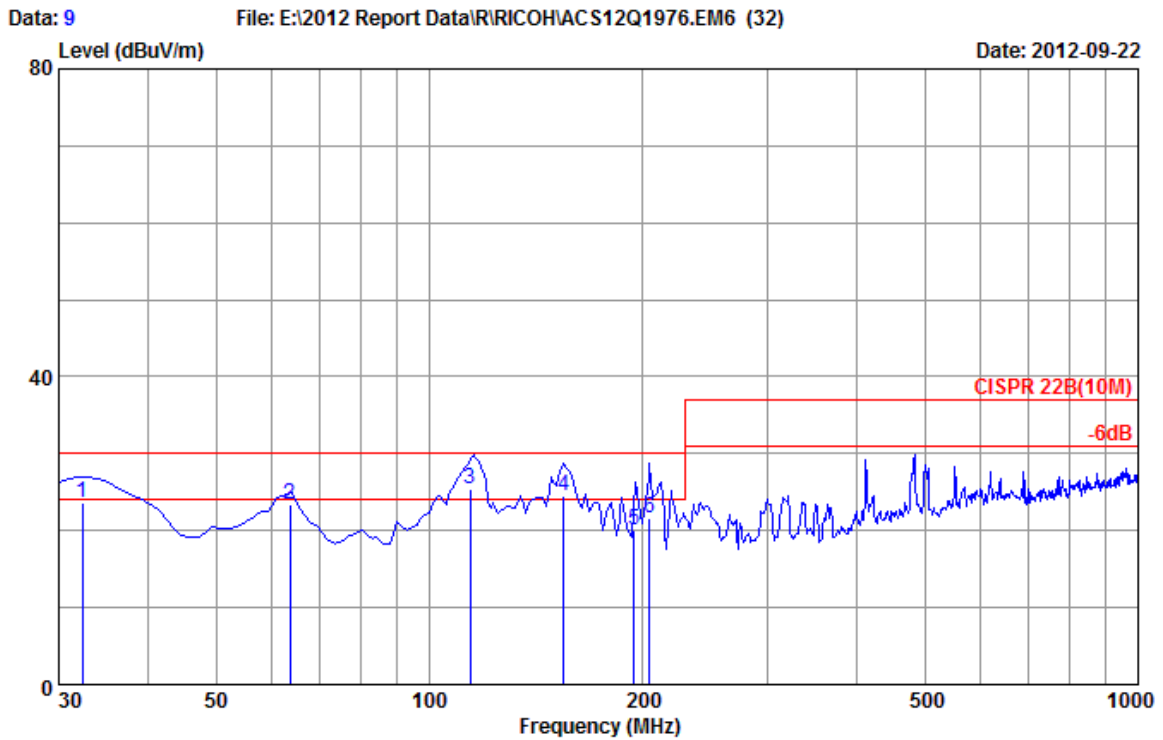
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 10
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Bluetooth Print+USB R/W
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.20	12.90	1.00	10.79	24.69	30.00	5.31	QP
2	179.56	10.00	1.15	12.90	24.05	30.00	5.95	QP
3	194.83	9.90	1.19	11.40	22.49	30.00	7.51	QP
4	203.08	9.94	1.22	11.90	23.06	30.00	6.94	QP
5	550.52	19.10	2.25	10.10	31.45	37.00	5.55	QP
6	960.30	21.60	3.23	3.80	28.63	37.00	8.37	QP

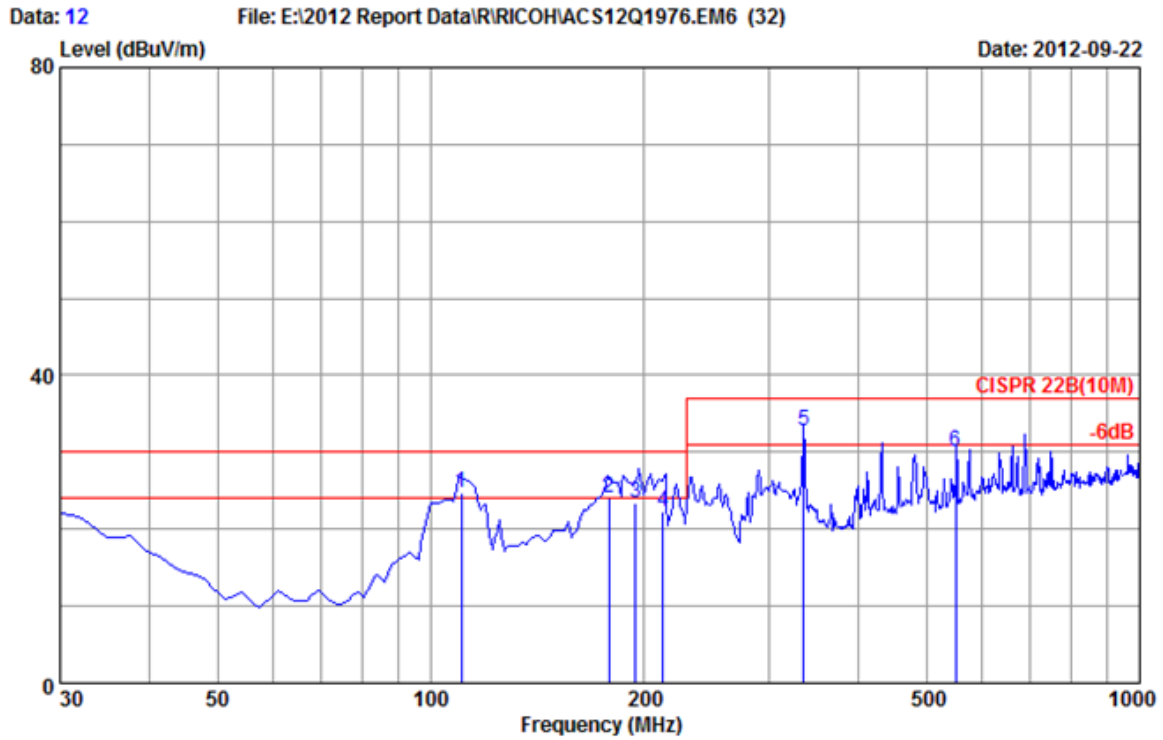
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 9
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Bluetooth Print+USB R/W
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.40	18.50	0.53	4.60	23.63	30.00	6.37	QP
2	63.64	6.80	0.75	15.80	23.35	30.00	6.65	QP
3	114.20	12.90	1.00	11.59	25.49	30.00	4.51	QP
4	154.70	11.05	1.10	12.40	24.55	30.00	5.45	QP
5	194.70	9.90	1.19	8.90	19.99	30.00	10.01	QP
6	204.53	9.90	1.22	10.60	21.72	30.00	8.28	QP

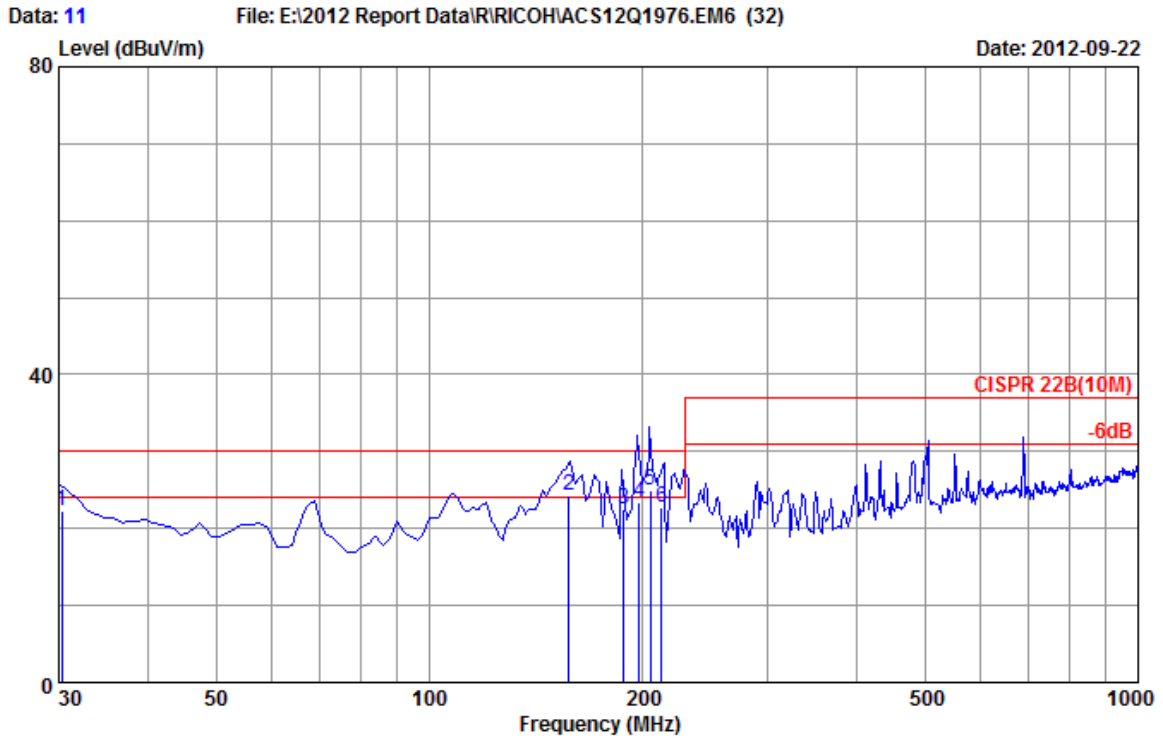
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 12
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : W-LAN Print & Scan
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	110.35	12.77	0.98	10.89	24.64	30.00	5.36	QP
2	178.25	10.00	1.15	12.90	24.05	30.00	5.95	QP
3	194.65	9.90	1.19	12.40	23.49	30.00	6.51	QP
4	212.80	9.60	1.24	11.50	22.34	30.00	7.66	QP
5	336.00	13.92	1.59	17.20	32.71	37.00	4.29	QP
6	550.50	19.10	2.25	8.80	30.15	37.00	6.85	QP

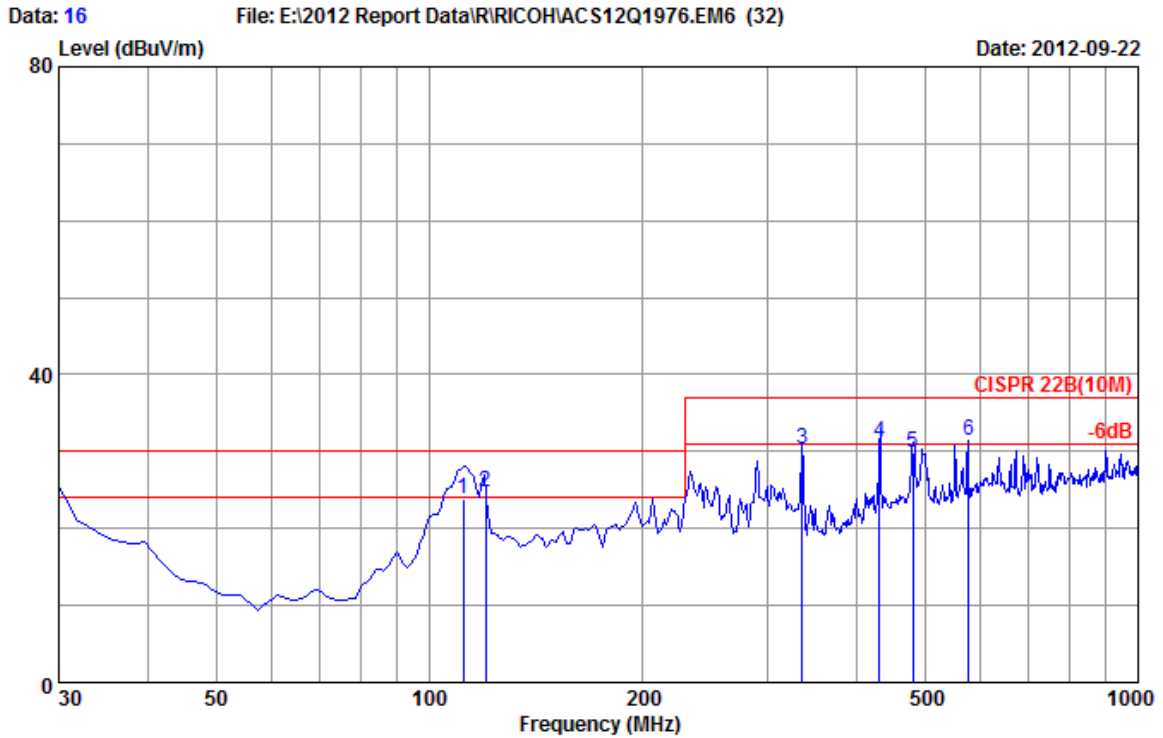
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 11
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : W-LAN Print & Scan
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	30.30	19.60	0.53	2.10	22.23	30.00	7.77	QP
2	157.30	10.90	1.10	12.20	24.20	30.00	5.80	QP
3	187.85	9.80	1.17	11.60	22.57	30.00	7.43	QP
4	197.55	9.90	1.21	12.29	23.40	30.00	6.60	QP
5	205.20	9.88	1.22	13.91	25.01	30.00	4.99	QP
6	212.80	9.60	1.24	11.90	22.74	30.00	7.26	QP

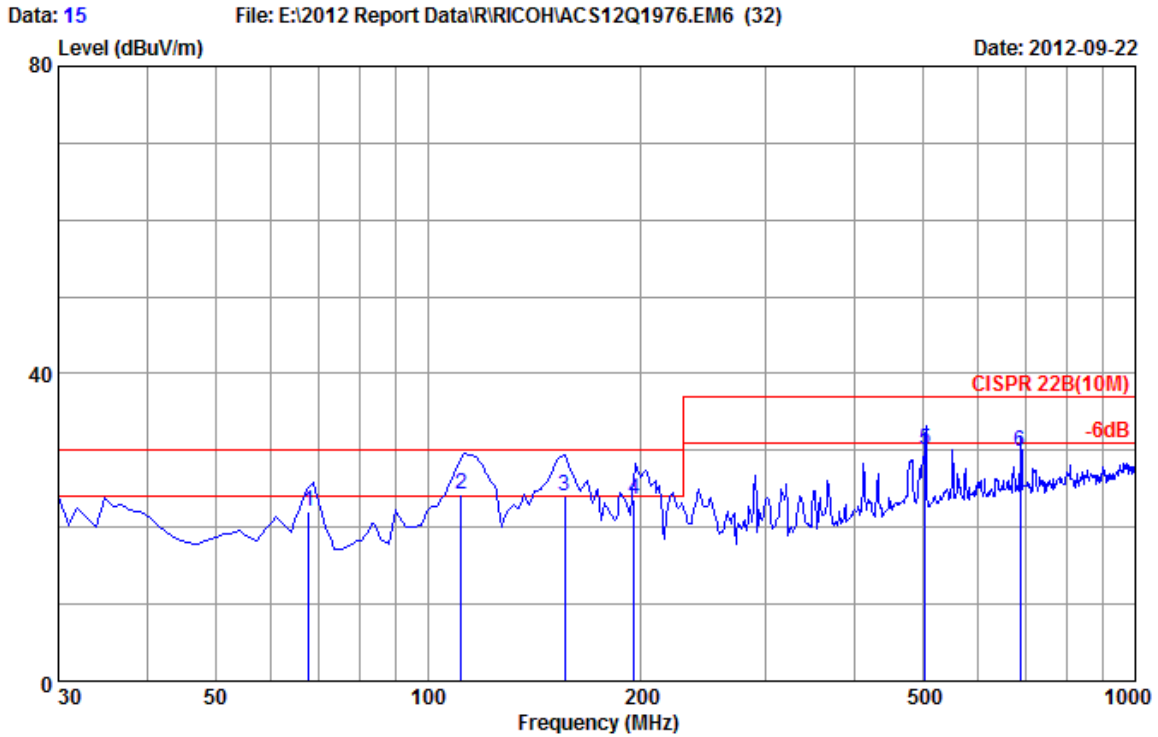
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 16
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : HORIZONTAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product(Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	111.60	12.83	1.00	10.10	23.93	30.00	6.07	QP
2	120.00	13.10	1.01	10.60	24.71	30.00	5.29	QP
3	336.03	13.92	1.59	14.80	30.31	37.00	6.69	QP
4	432.03	16.37	1.90	12.89	31.16	37.00	5.84	QP
5	481.48	17.40	2.06	10.50	29.96	37.00	7.04	QP
6	576.00	18.68	2.32	10.50	31.50	37.00	5.50	QP

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

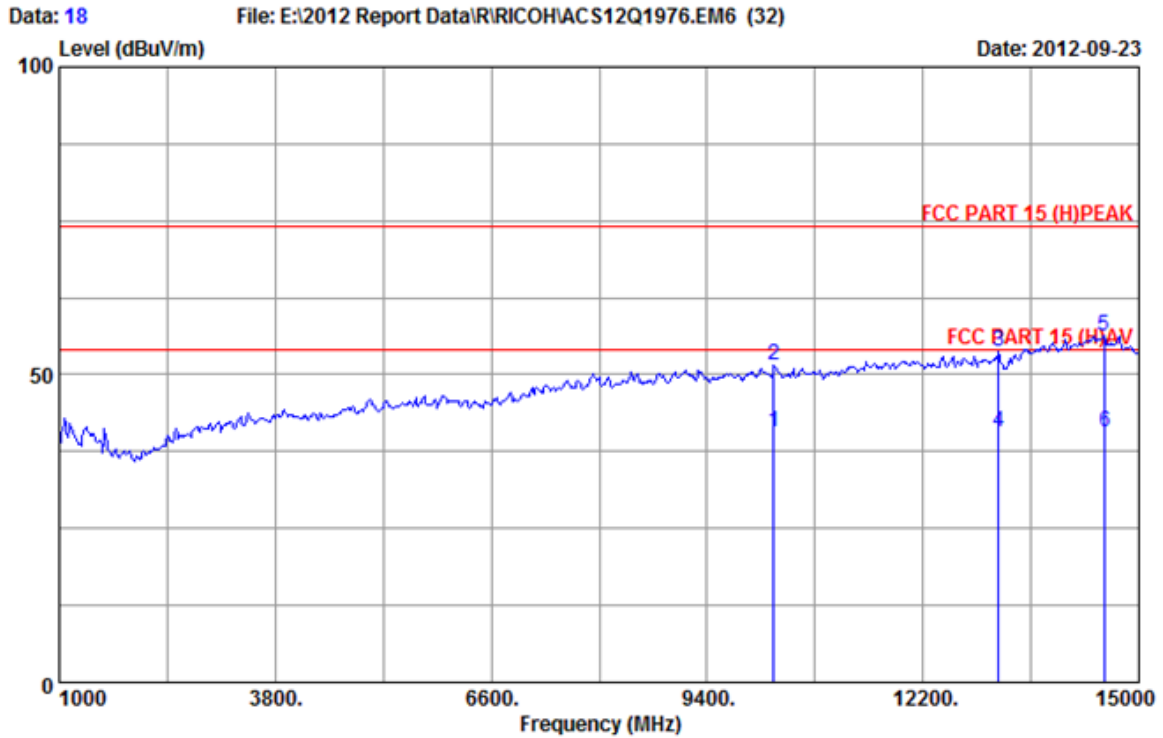


Site no. : 10m Chamber Data no. : 15
 Dis. / Ant. : 10m 11 CBL6112D 25237 Ant. pol. : VERTICAL
 Limit : CISPR 22B(10M)
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	67.88	7.40	0.75	13.90	22.05	30.00	7.95	QP
2	111.28	12.83	0.98	10.50	24.31	30.00	5.69	QP
3	156.13	11.00	1.10	12.00	24.10	30.00	5.90	QP
4	195.53	9.80	1.21	12.59	23.60	30.00	6.40	QP
5	504.23	17.50	2.15	10.50	30.15	37.00	6.85	QP
6	688.23	19.18	2.60	8.10	29.88	37.00	7.12	QP

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

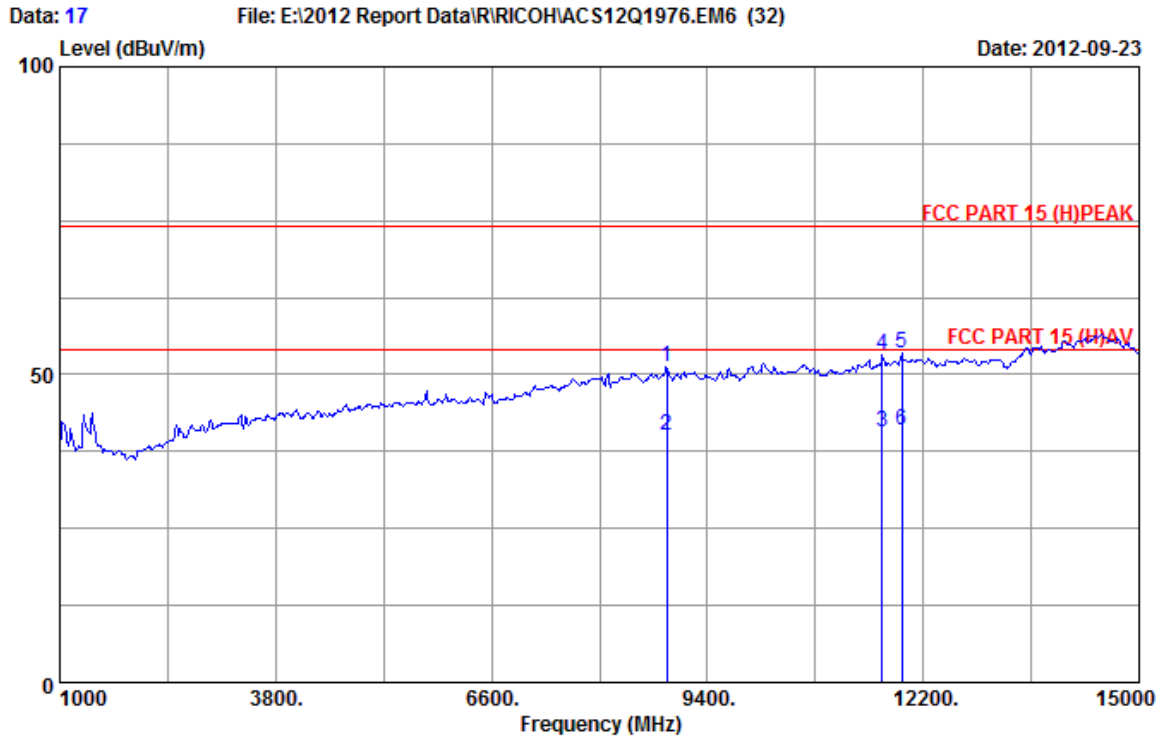
1GHz~2GHz



Site no. : 10m Chamber Data no. : 18
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : STANDBY
 M/N:MP 2501SP

No.	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	10265.32	38.15	2.92	35.43	35.01	40.65	54.00	13.35	Average
2	10268.02	38.15	2.92	35.43	45.86	51.50	74.00	22.50	Peak
3	13180.10	39.90	3.50	34.76	45.20	53.84	74.00	20.16	Peak
4	13184.27	39.91	3.50	34.76	32.14	40.79	54.00	13.21	Average
5	14552.66	42.55	3.74	34.60	44.69	56.38	74.00	17.62	Peak
6	14555.21	42.53	3.74	34.60	28.99	40.66	54.00	13.34	Average

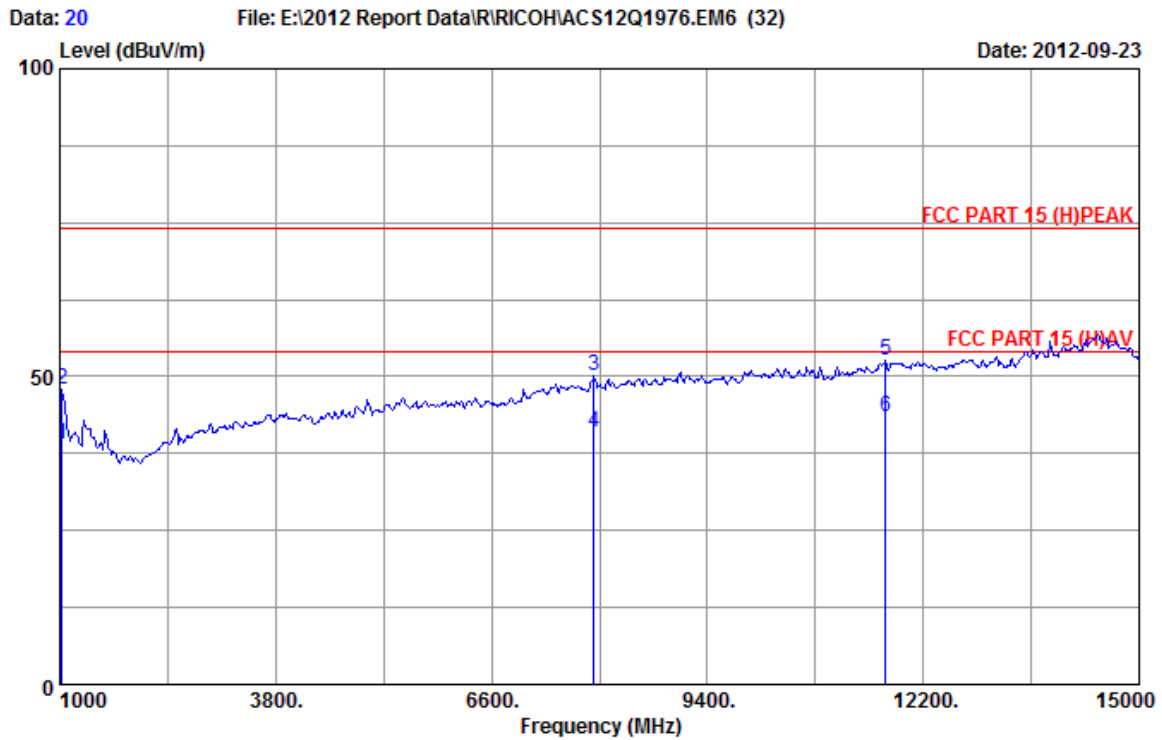
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 17
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : STANDBY
 M/N:MP 2501SP

No.	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	8868.25	37.75	2.65	35.16	45.98	51.22	74.00	22.78	Peak
2	8872.04	37.75	2.65	35.16	34.95	40.19	54.00	13.81	Average
3	11664.02	39.30	3.14	35.08	33.26	40.62	54.00	13.38	Average
4	11668.02	39.30	3.14	35.08	45.79	53.15	74.00	20.85	Peak
5	11920.14	39.45	3.21	35.02	45.91	53.55	74.00	20.45	Peak
6	11925.03	39.46	3.21	35.02	33.17	40.82	54.00	13.18	Average

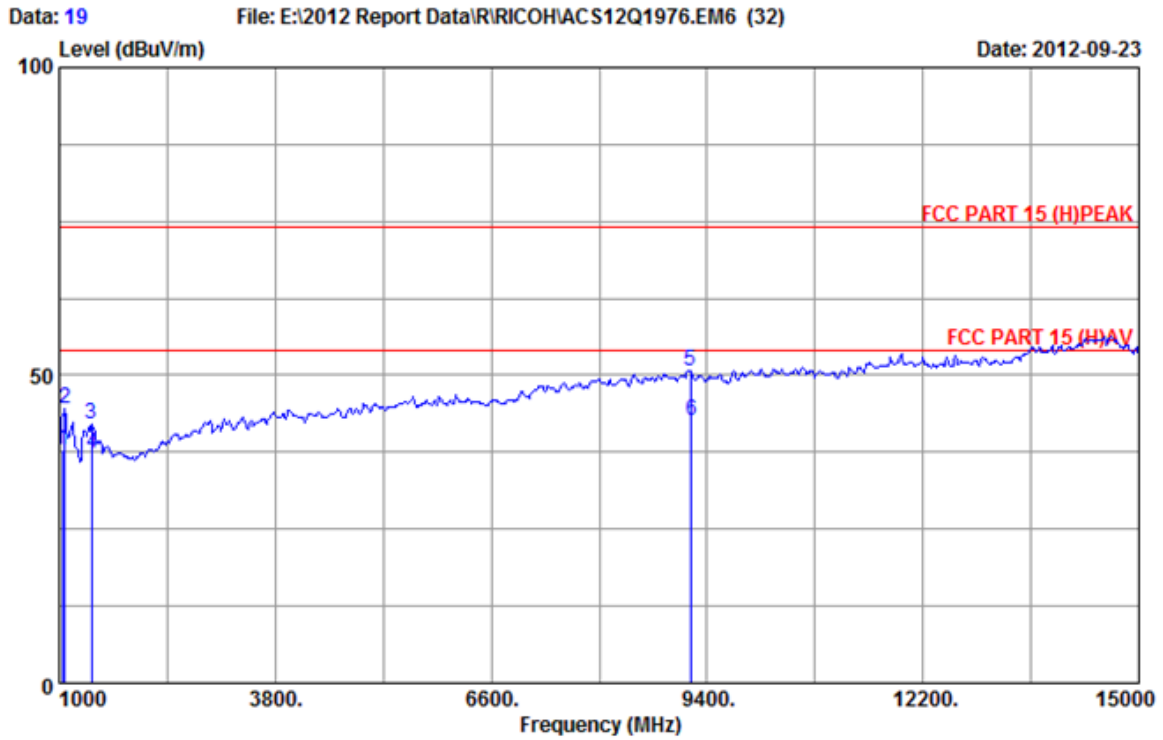
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 20
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : COPY
 M/N:MP 2501SP

No.	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	1026.38	24.91	0.95	36.47	49.62	39.01	54.00	14.99	Average
2	1028.58	24.91	0.95	36.47	58.50	47.89	74.00	26.11	Peak
3	7930.15	36.80	2.46	34.87	45.80	50.19	74.00	23.81	Peak
4	7931.03	36.80	2.46	34.87	36.52	40.91	54.00	13.09	Average
5	11710.03	39.33	3.15	35.08	45.30	52.70	74.00	21.30	Peak
6	11712.02	39.33	3.15	35.08	35.93	43.33	54.00	10.67	Average

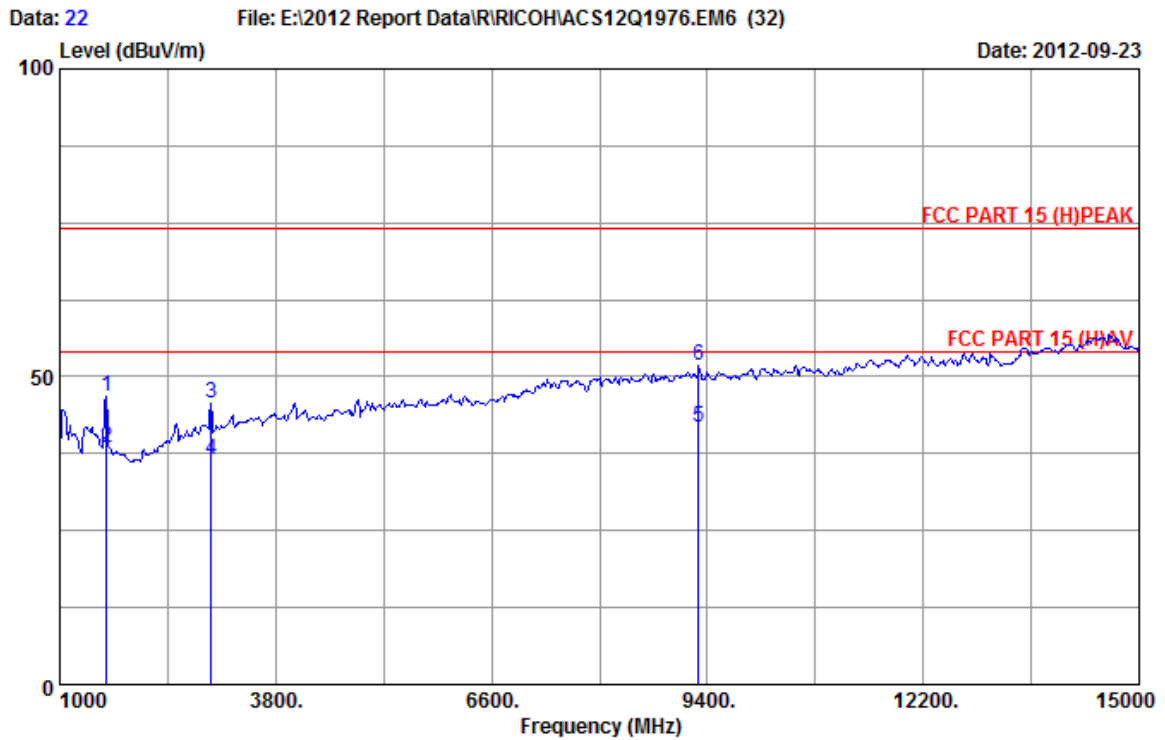
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 19
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : COPY
 M/N:MP 2501SP

No.	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	1049.80	24.92	0.96	36.44	48.38	37.82	54.00	16.18	Average
2	1070.84	24.93	0.96	36.42	55.21	44.68	74.00	29.32	Peak
3	1420.51	25.07	1.01	36.03	51.89	41.94	74.00	32.06	Peak
4	1433.51	25.07	1.01	36.03	47.19	37.24	54.00	16.76	Average
5	9190.02	37.80	2.74	35.26	45.46	50.74	74.00	23.26	Peak
6	9192.04	37.80	2.74	35.26	37.22	42.50	54.00	11.50	Average

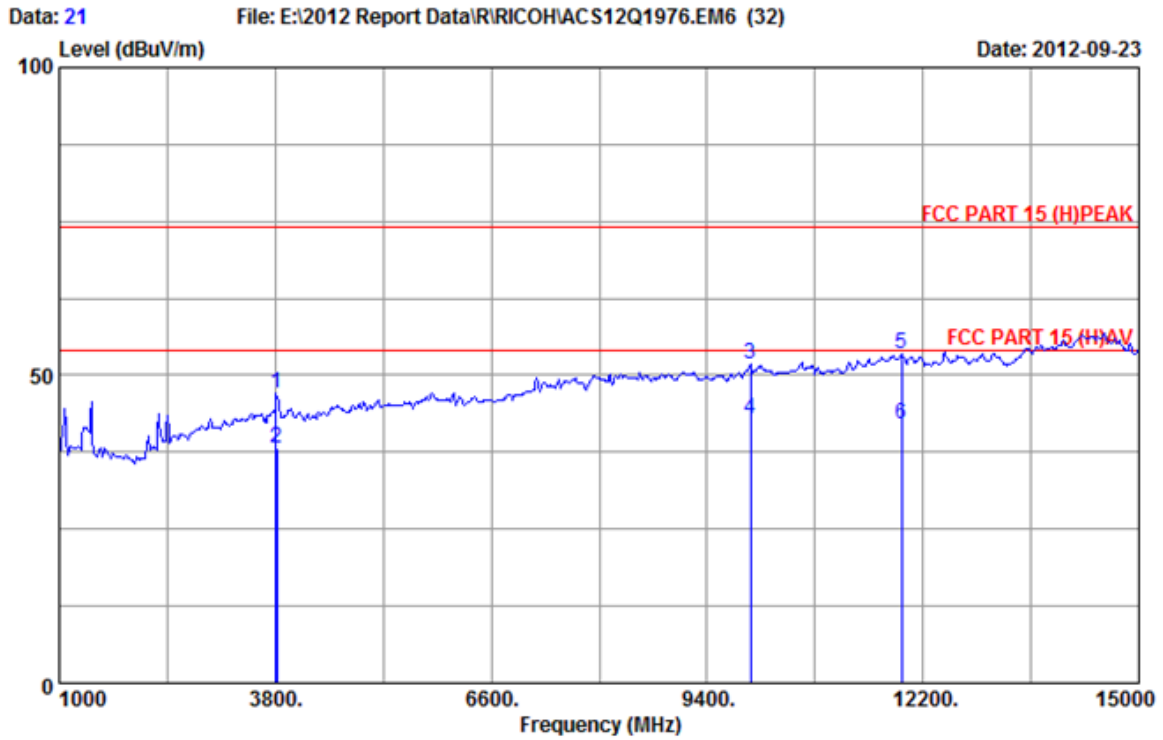
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:TX
 M/N:MP 2501SP

No.	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	1602.69	24.92	1.04	35.84	56.57	46.69	74.00	27.31	Peak
2	1604.32	24.91	1.05	35.84	48.26	38.38	54.00	15.62	Average
3	2960.02	29.06	1.38	34.93	50.03	45.54	74.00	28.46	Peak
4	2962.35	29.06	1.38	34.93	41.04	36.55	54.00	17.45	Average
5	9286.34	37.80	2.76	35.28	36.50	41.78	54.00	12.22	Average
6	9288.25	37.80	2.76	35.29	46.45	51.72	74.00	22.28	Peak

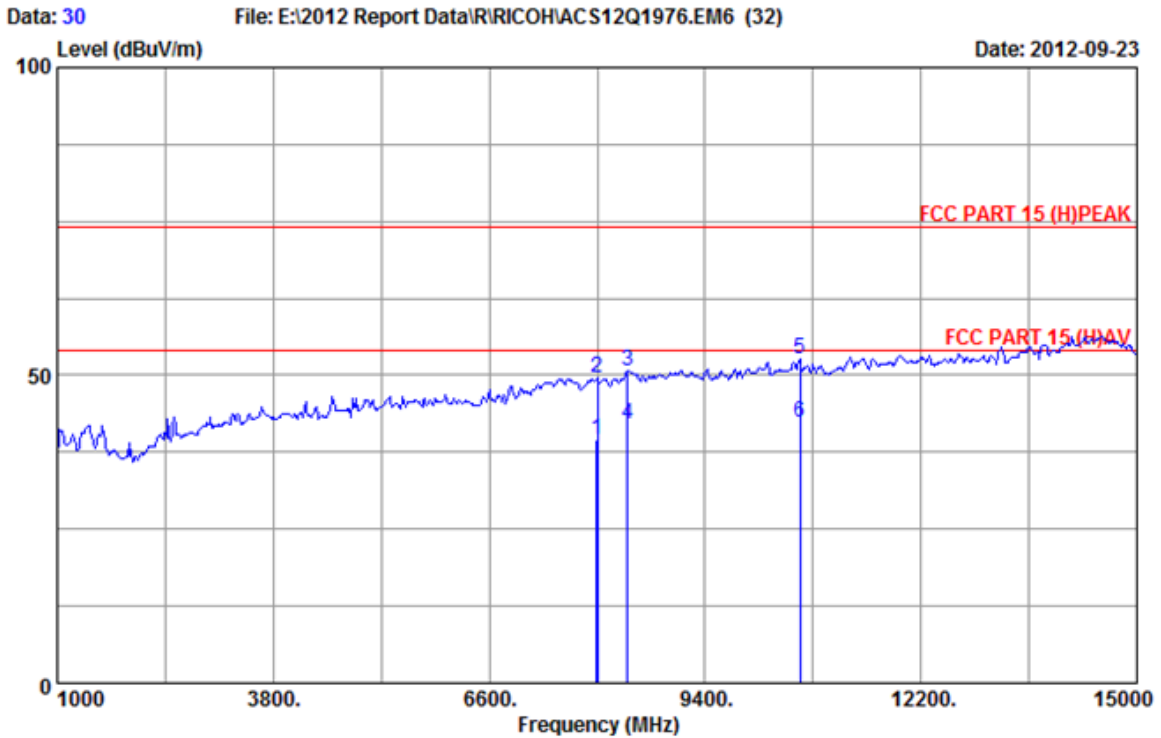
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 21
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:TX
 M/N:MP 2501SP

No.	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	3814.02	31.34	1.56	34.49	48.55	46.96	74.00	27.04	Peak
2	3816.35	31.35	1.56	34.49	39.69	38.11	54.00	15.89	Average
3	9960.15	38.08	2.88	35.49	46.43	51.90	74.00	22.10	Peak
4	9962.37	38.08	2.88	35.49	37.55	43.02	54.00	10.98	Average
5	11920.68	39.45	3.21	35.02	45.88	53.52	74.00	20.48	Peak
6	11922.04	39.45	3.21	35.02	34.37	42.01	54.00	11.99	Average

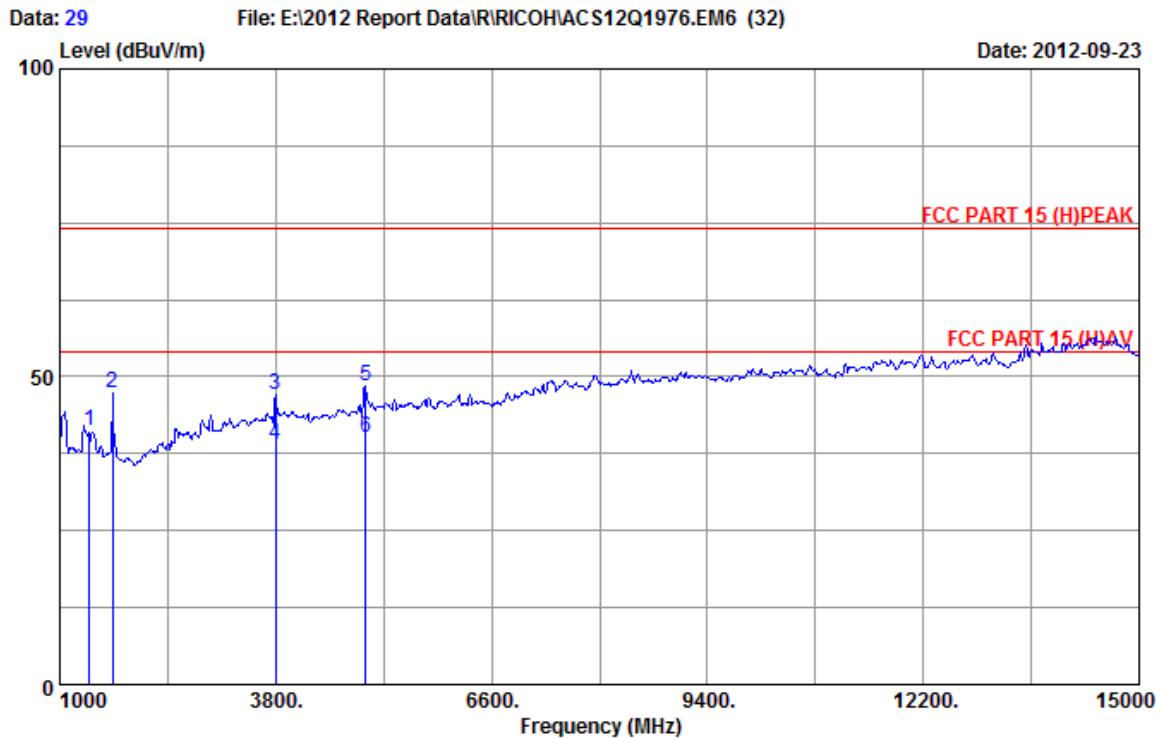
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:RX
 M/N:MP 2501SP

No.	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	7998.67	36.90	2.46	34.90	35.22	39.68	54.00	14.32	Average
2	8000.02	36.90	2.46	34.90	45.24	49.70	74.00	24.30	Peak
3	8392.15	37.45	2.52	35.02	45.79	50.74	74.00	23.26	Peak
4	8395.21	37.45	2.52	35.02	37.15	42.10	54.00	11.90	Average
5	10632.25	38.25	2.97	35.34	46.84	52.72	74.00	21.28	Peak
6	10635.26	38.25	2.97	35.34	36.33	42.21	54.00	11.79	Average

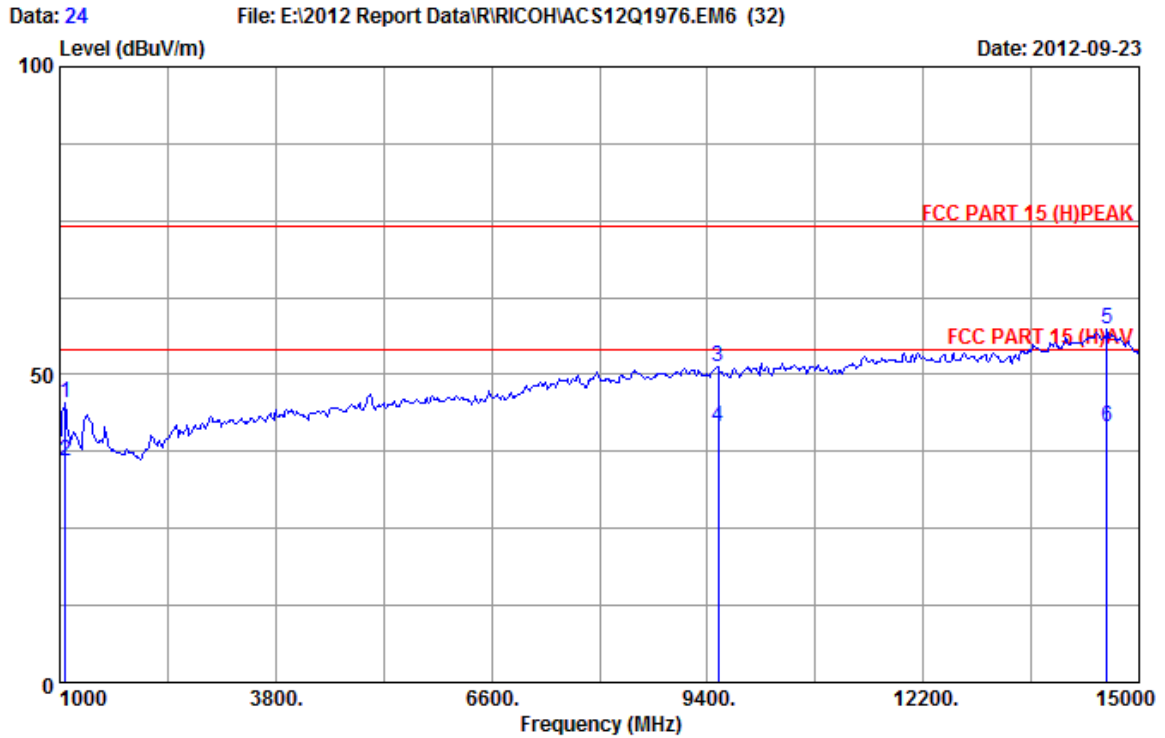
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 29
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : G3-1:RX
 M/N:MP 2501SP

No.	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	1388.29	25.06	1.01	36.06	51.34	41.35	54.00	12.65	Average
2	1686.58	24.76	1.06	35.76	57.21	47.27	74.00	26.73	Peak
3	3800.15	31.30	1.56	34.50	48.58	46.94	74.00	27.06	Peak
4	3802.36	31.31	1.56	34.50	40.65	39.02	54.00	14.98	Average
5	4962.02	32.82	1.85	34.31	48.01	48.37	74.00	25.63	Peak
6	4964.32	32.82	1.85	34.30	39.66	40.03	54.00	13.97	Average

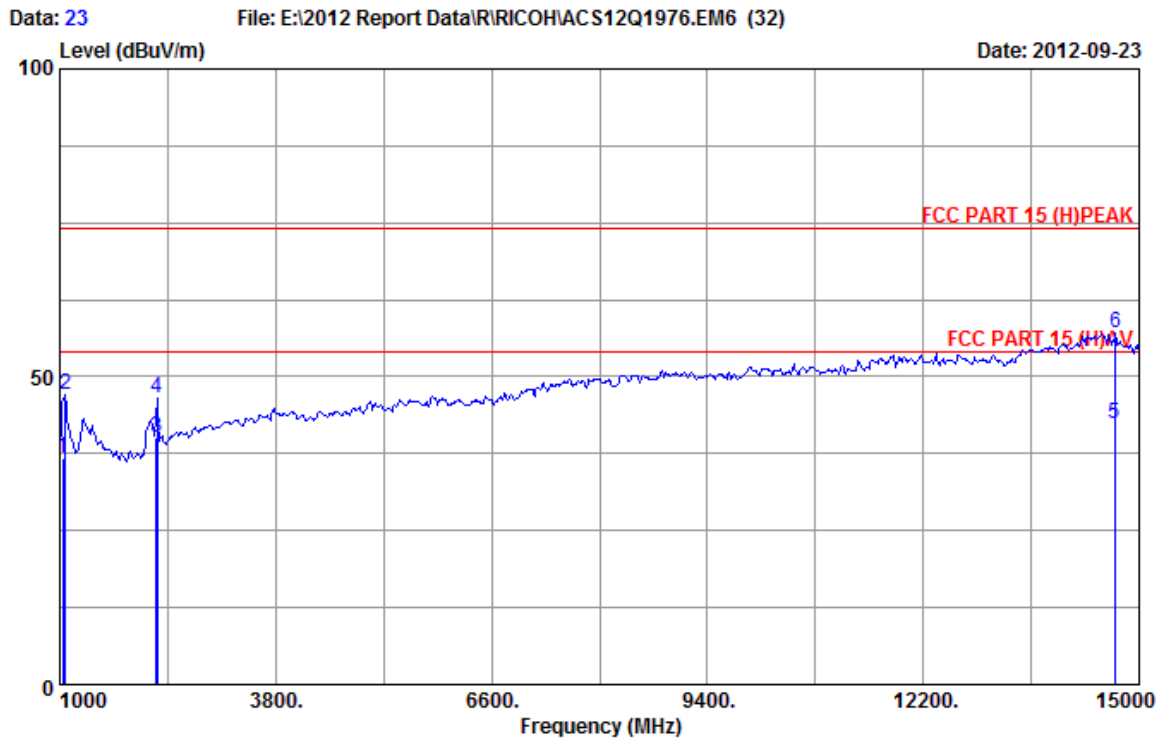
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 24
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Giga Print&Scan
 M/N:MP 2501SP

No.	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	1070.15	24.93	0.96	36.42	55.82	45.29	74.00	28.71	Peak
2	1072.36	24.93	0.96	36.42	46.39	35.86	54.00	18.14	Average
3	9540.17	37.82	2.81	35.37	45.97	51.23	74.00	22.77	Peak
4	9542.02	37.83	2.81	35.37	36.20	41.47	54.00	12.53	Average
5	14580.05	42.42	3.75	34.60	45.94	57.51	74.00	16.49	Peak
6	14585.26	42.39	3.75	34.60	30.07	41.61	54.00	12.39	Average

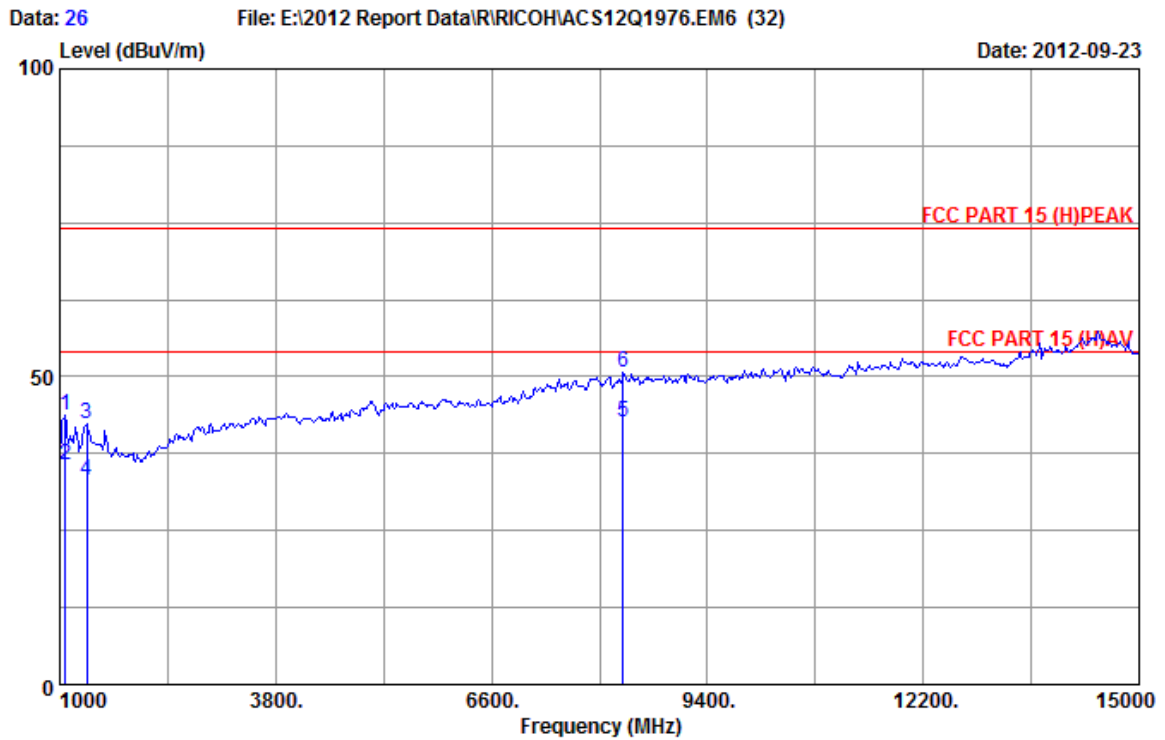
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 23
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Giga Print&Scan
 M/N:MP 2501SP

No.	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	1039.80	24.92	0.95	36.44	47.29	36.72	54.00	17.28	Average
2	1070.02	24.93	0.96	36.42	57.73	47.20	74.00	26.80	Peak
3	2250.40	25.80	1.23	35.28	48.38	40.13	54.00	13.87	Average
4	2260.65	25.87	1.23	35.28	54.56	46.38	74.00	27.62	Peak
5	14681.03	41.93	3.78	34.60	31.28	42.39	54.00	11.61	Average
6	14692.41	41.88	3.78	34.60	46.08	57.14	74.00	16.86	Peak

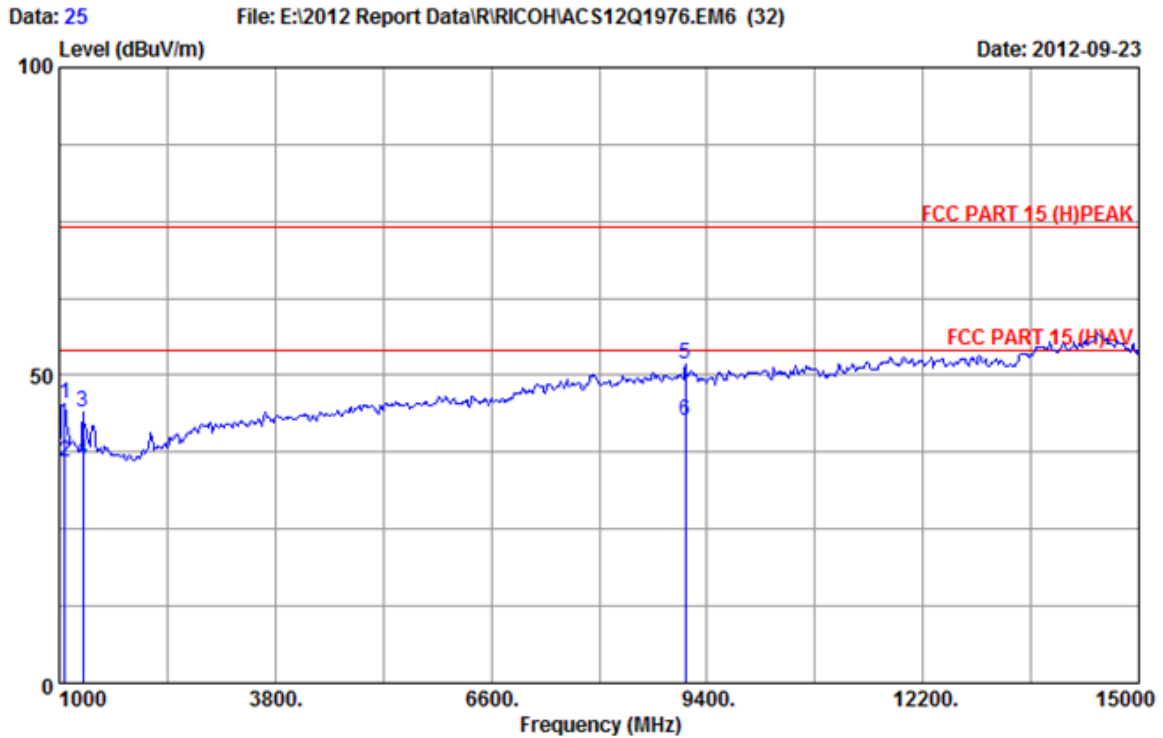
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 26
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Bluetooth Print+USB R/W
 M/N:MP 2501SP

No.	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	1070.34	24.93	0.96	36.42	54.39	43.86	74.00	30.14	Peak
2	1072.04	24.93	0.96	36.42	46.28	35.75	54.00	18.25	Average
3	1350.47	25.04	1.00	36.12	52.37	42.29	74.00	31.71	Peak
4	1352.22	25.04	1.00	36.12	43.26	33.18	54.00	20.82	Average
5	8307.25	37.33	2.50	34.99	37.85	42.69	54.00	11.31	Average
6	8308.23	37.33	2.50	34.99	45.87	50.71	74.00	23.29	Peak

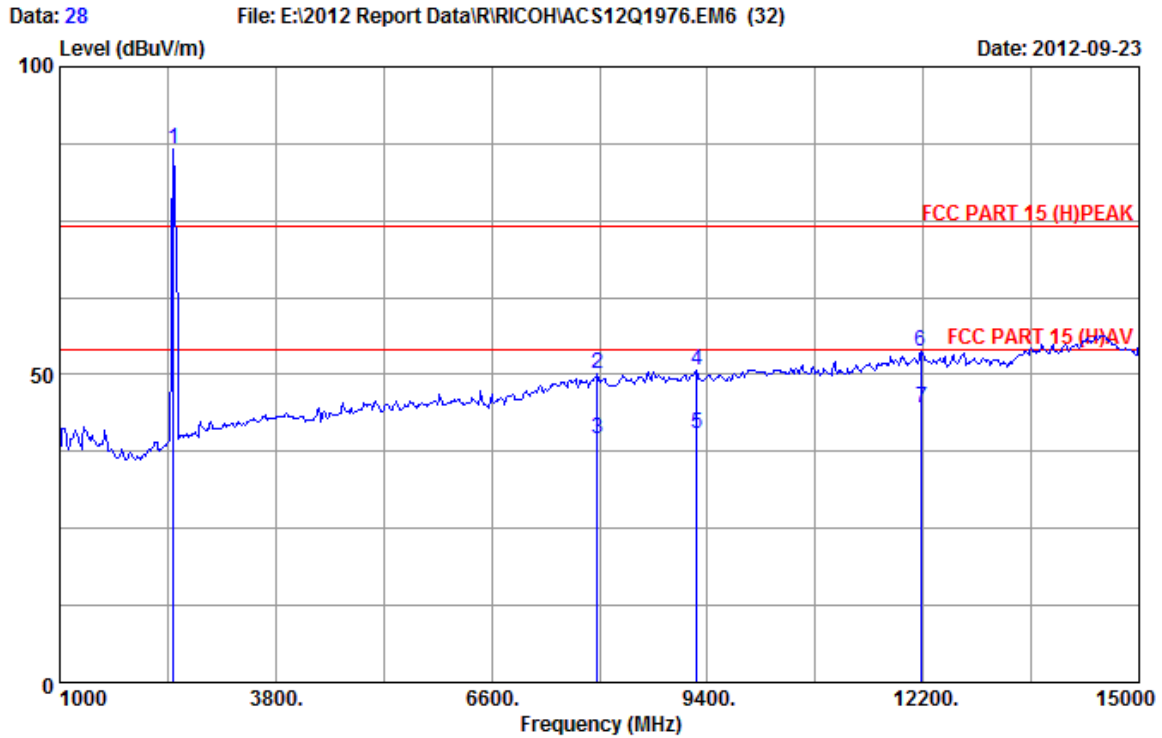
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 25
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : Bluetooth Print+USB R/W
 M/N:MP 2501SP

No.	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	1070.02	24.93	0.96	36.42	55.92	45.39	74.00	28.61	Peak
2	1072.38	24.93	0.96	36.42	46.38	35.85	54.00	18.15	Average
3	1308.24	25.02	0.99	36.17	54.24	44.08	74.00	29.92	Peak
4	1309.67	25.02	0.99	36.17	46.39	36.23	54.00	17.77	Average
5	9120.18	37.80	2.72	35.24	46.55	51.83	74.00	22.17	Peak
6	9122.02	37.80	2.72	35.24	37.29	42.57	54.00	11.43	Average

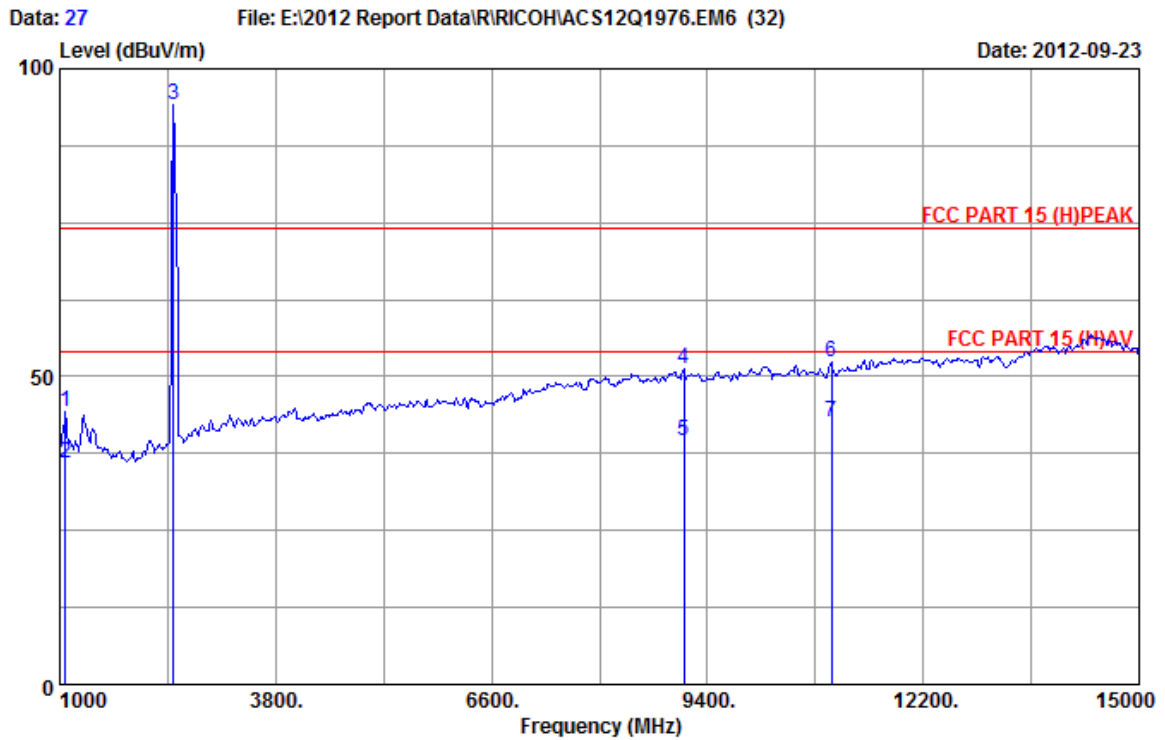
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : W-LAN Print & Scan
 M/N:MP 2501SP

No.	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	2470.32	27.21	1.31	35.16	93.15	86.51	74.00	-12.51	Peak
2	7972.51	36.86	2.46	34.89	45.74	50.17	74.00	23.83	Peak
3	7974.01	36.86	2.46	34.89	35.22	39.65	54.00	14.35	Average
4	9260.03	37.80	2.75	35.28	45.33	50.60	74.00	23.40	Peak
5	9262.10	37.80	2.75	35.28	35.11	40.38	54.00	13.62	Average
6	12172.17	39.33	3.27	34.97	46.09	53.72	74.00	20.28	Peak
7	12174.01	39.33	3.27	34.97	36.96	44.59	54.00	9.41	Average

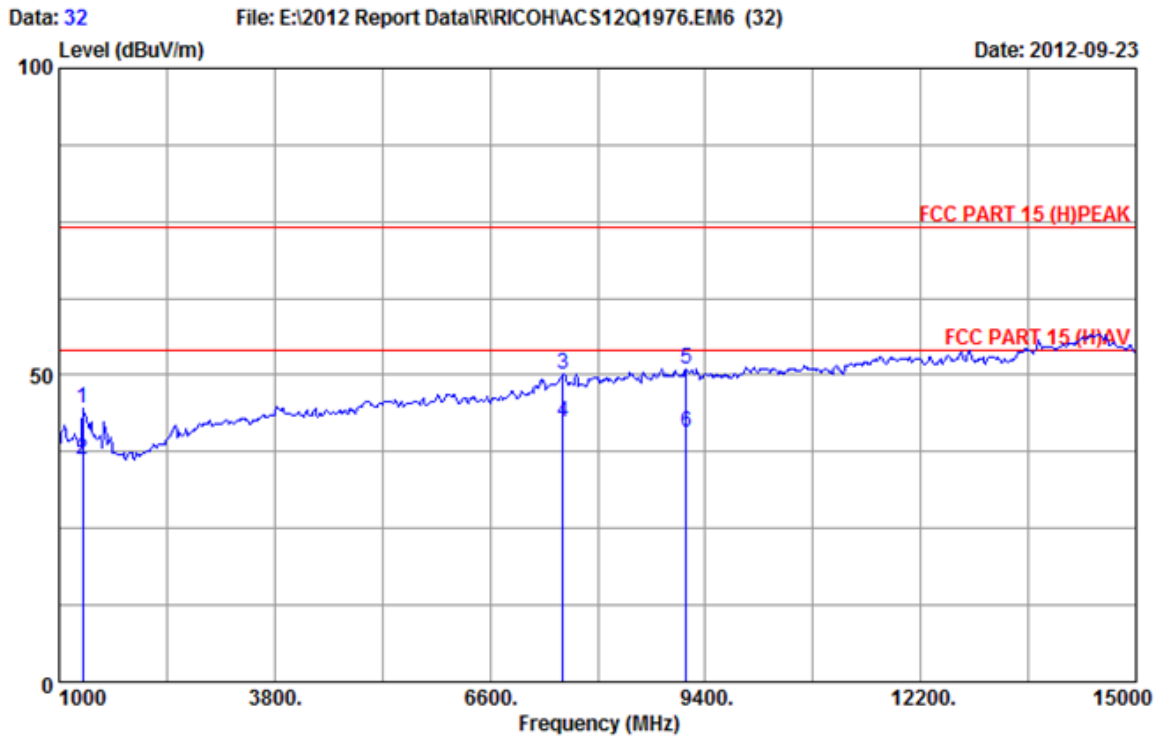
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 27
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : W-LAN Print & Scan
 M/N:MP 2501SP

No.	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	1070.31	24.93	0.96	36.42	54.96	44.43	74.00	29.57	Peak
2	1072.04	24.93	0.96	36.42	46.33	35.80	54.00	18.20	Average
3	2470.35	27.21	1.31	35.16	100.74	94.10	74.00	-20.10	Peak
4	9092.25	37.80	2.72	35.23	45.97	51.26	74.00	22.74	Peak
5	9094.32	37.80	2.72	35.23	34.20	39.49	54.00	14.51	Average
6	11010.58	38.42	3.02	35.25	46.12	52.31	74.00	21.69	Peak
7	11012.35	38.42	3.02	35.25	36.40	42.59	54.00	11.41	Average

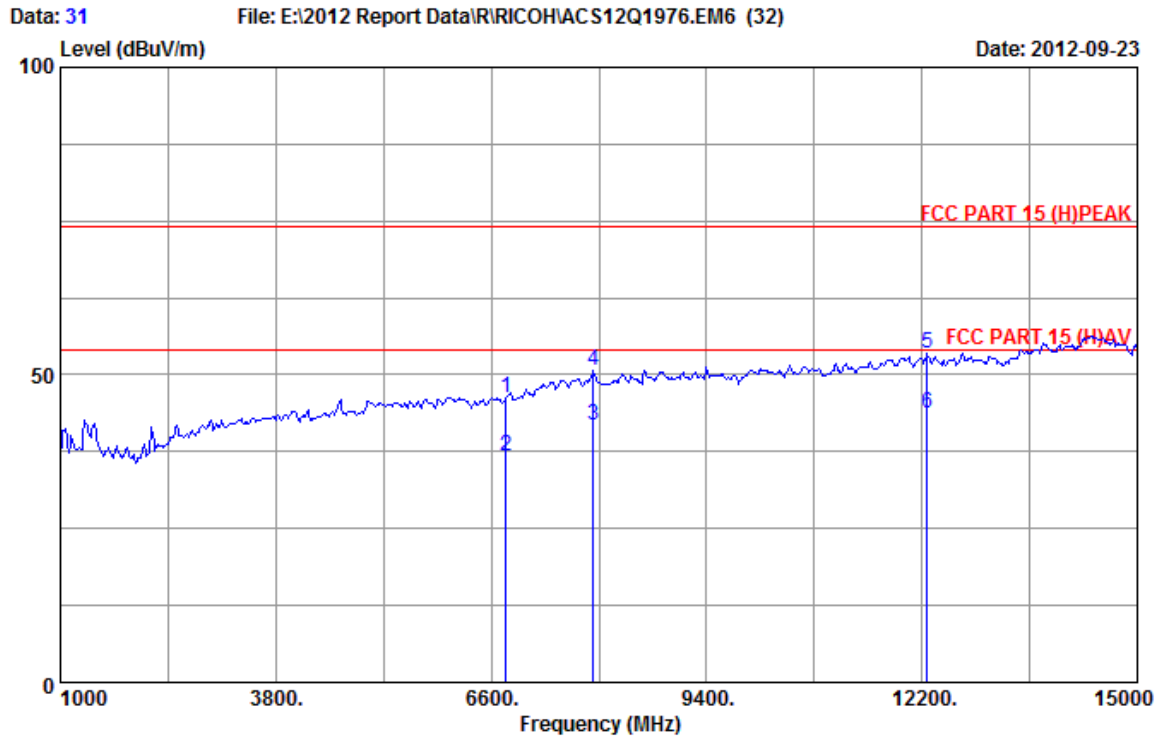
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 32
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No.	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	1308.88	25.02	0.99	36.17	54.68	44.52	74.00	29.48	Peak
2	1309.25	25.02	0.99	36.17	46.39	36.23	54.00	17.77	Average
3	7552.64	36.27	2.45	34.74	46.15	50.13	74.00	23.87	Peak
4	7554.36	36.28	2.45	34.74	38.26	42.25	54.00	11.75	Average
5	9148.18	37.80	2.73	35.24	45.67	50.96	74.00	23.04	Peak
6	9149.25	37.80	2.73	35.24	35.32	40.61	54.00	13.39	Average

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



Site no. : 10m Chamber Data no. : 31
 Dis. / Ant. : 3m 2012 3115 9510-4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15 (H)PEAK
 Env. / Ins. : 24°C/56% Engineer : FANS
 EUT : Multifunction Digital Product (Copier/Printer/Scanner)
 Power rating : AC 120V/60Hz
 Test Mode : IEEE1284+USB2.0 Print+SD R/W
 M/N:MP 2501SP

No.	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	6796.45	34.53	2.31	34.48	43.97	46.33	74.00	27.67	Peak
2	6797.25	34.54	2.31	34.48	34.28	36.65	54.00	17.35	Average
3	7928.35	36.80	2.46	34.87	37.51	41.90	54.00	12.10	Average
4	7930.23	36.80	2.46	34.87	46.31	50.70	74.00	23.30	Peak
5	12270.15	39.23	3.30	34.94	45.81	53.40	74.00	20.60	Peak
6	12272.30	39.23	3.30	34.94	36.14	43.73	54.00	10.27	Average

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

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]