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Report No.: SZEMO10050242401

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FCC Test Report

Application No.: SZEMO100502424IT

Applicant/Factory: JYH CHIUN PLASTIC CO., LTD.

Address of Applicant: Building A1, West Industrial Zone 2, FengMing Road Ming Zhu ShaJing BaoAn
District ShenZhen City China

Equipment Under Test (EUT):

FCC ID: YEP-DZ-297

EUT Name: Slide & negative scanner

Item No.: DZ-297

Standards: FCC PART15 SUBPART B:2009

Date of Receipt: 06 May 2010

Date of Test: 07 May to 24 June 2010

Date of Issue: 28 June 2010

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

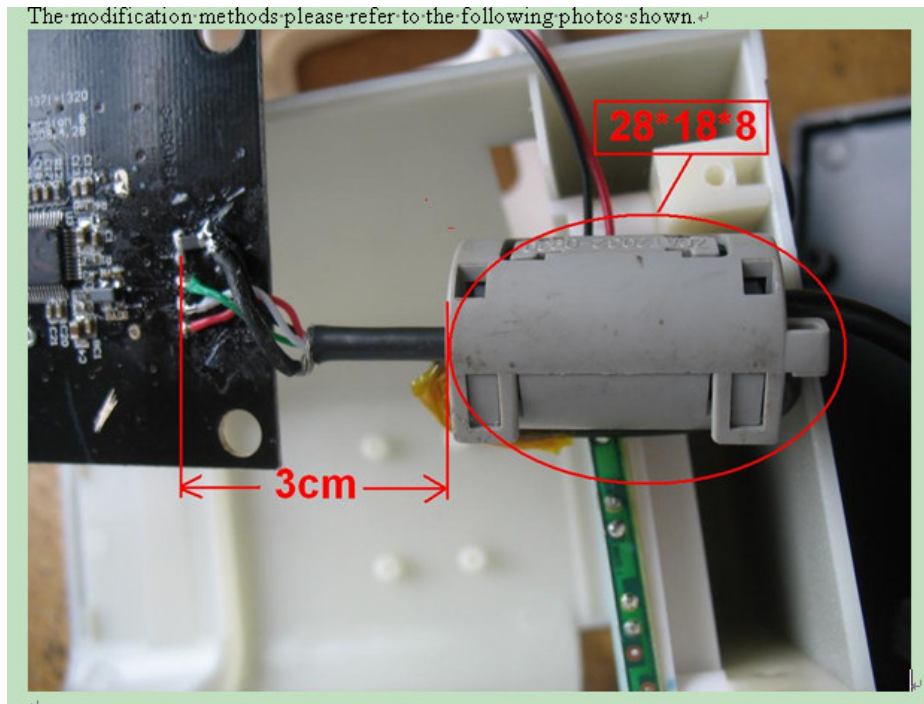
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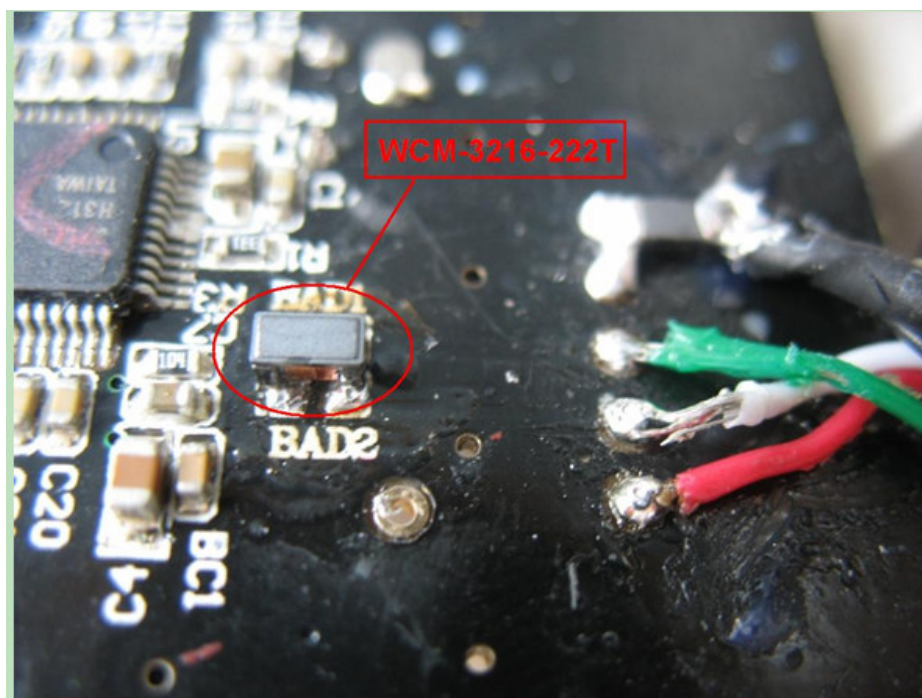
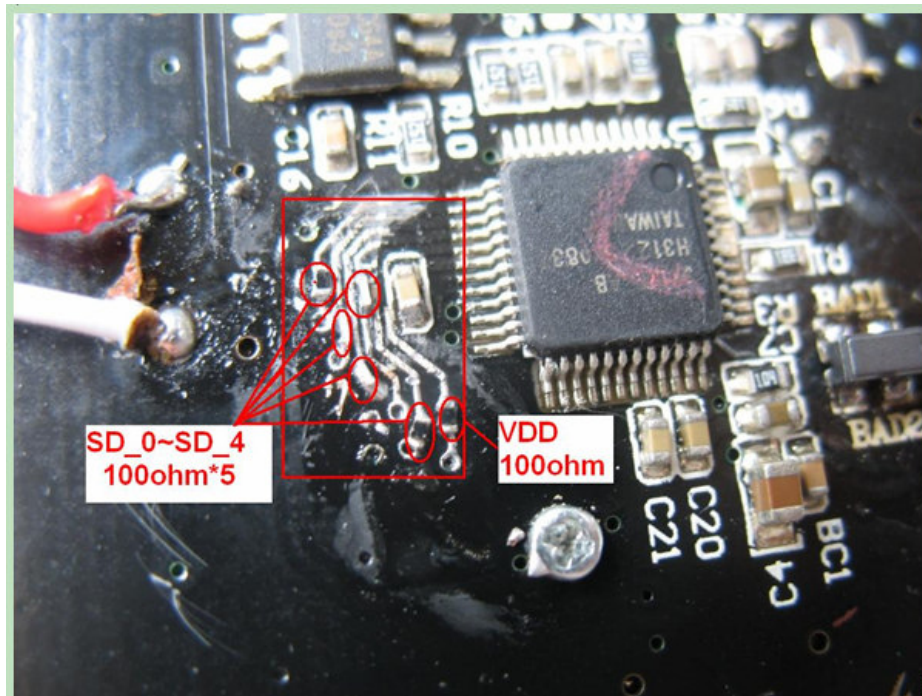
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2 Test Summary

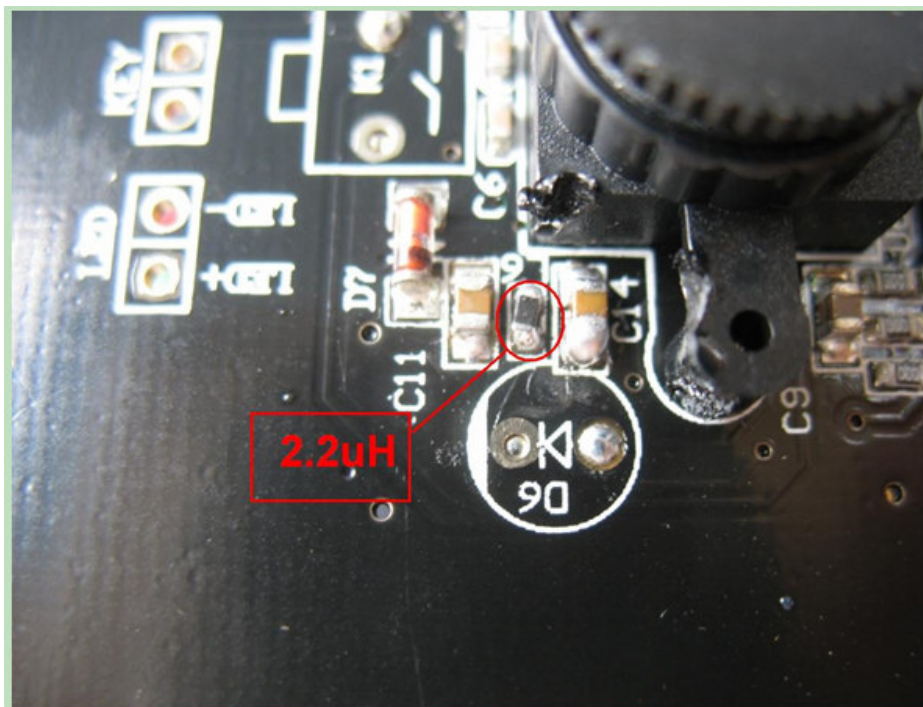
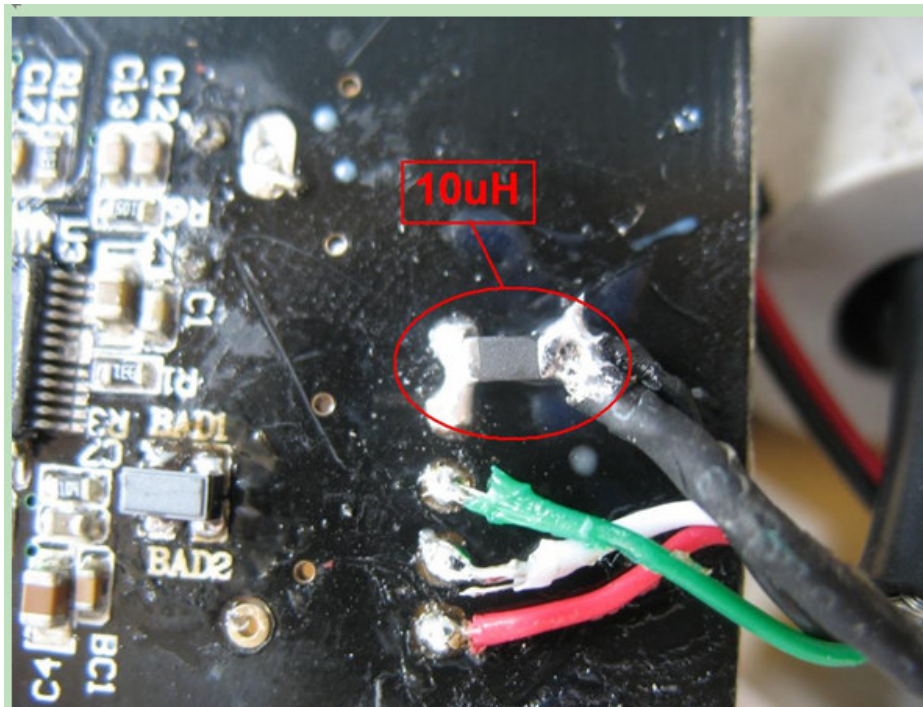
Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2009	ANSI C63.4:2009	Class B	PASS *
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2009	ANSI C63.4:2009	Class B	PASS

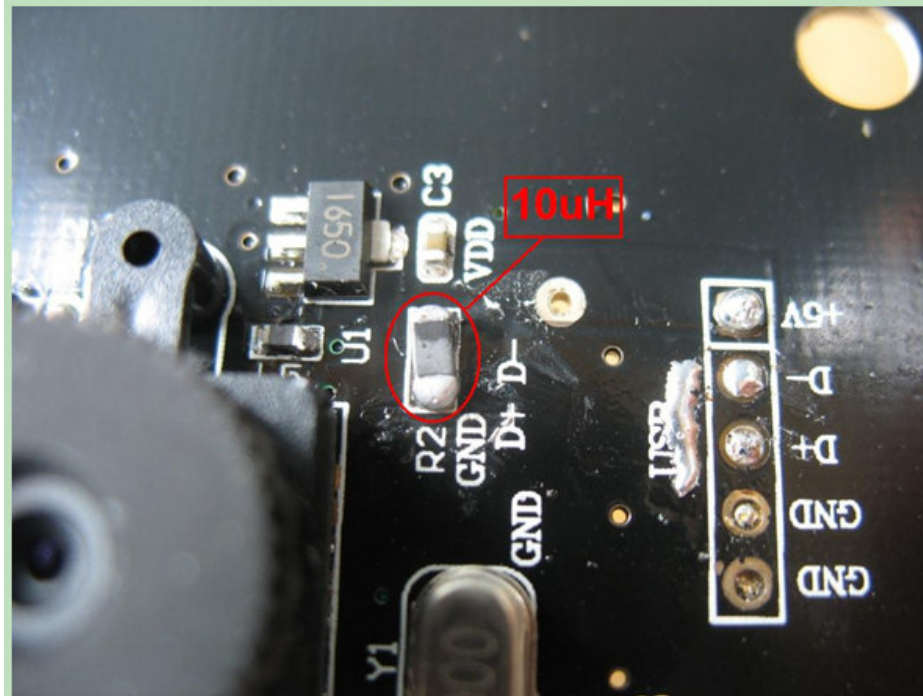
* The EUT pass the RE test after modifications. See pictures below:





The common mode inductor is supplies by KING-CORE-INC.







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4 General Information

4.1 Details of E.U.T.

Power Supply: Supply by PC(USB port)
Test voltage DC 5V from PC
USB Cable: 155cm
Power Cord: N/A

4.2 Description of Support Units

None.

4.3 Standards Applicable for Testing

The customer requested FCC tests for Slide & negative scanner.
The standard used was FCC PART 15, SUBPART B, CLASS B.

4.4 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E & E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.
Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**
CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.
- **VCCI**
The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.
Date of Registration: September 29, 2008. Valid until September 28, 2011.
- **FCC – Registration No.: 556682**
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.
- **Industry Canada (IC)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.



5 Equipments Used during Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	02-06-2010	01-06-2011
3	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	25-01-2010	25-01-2011
4	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	25-01-2010	25-01-2011
5	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	25-01-2010	25-01-2011
6	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	02-06-2010	01-06-2011
7	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	18-06-2011

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	17-06-2010	16-06-2011
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	19-03-2010	19-03-2011
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	05-11-2009	05-11-2010
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	02-06-2010	01-06-2011
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	10-11-2009	10-11-2010
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	10-11-2009	10-11-2010
9	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	04-06-2010	03-06-2011
10	Band filter	Amindeon	Asi 3314	SEL0094	02-06-2010	01-06-2011
11	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	12-08-2009	12-08-2010

General used equipment						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101 to SEL0103	28-10-2009	28-10-2010
2	Barometer	ChangChun	DYM3	SEL0088	08-06-2010	07-06-2011



6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Frequency Range: 150KHz to 30MHz
Class / Severity: Class B
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0 °C Humidity: 45% RH Atmospheric Pressure: 1010 Mbar
EUT Operation: Test in PC mode, Build the connection between the EUT and PC, Keep data exchanging.

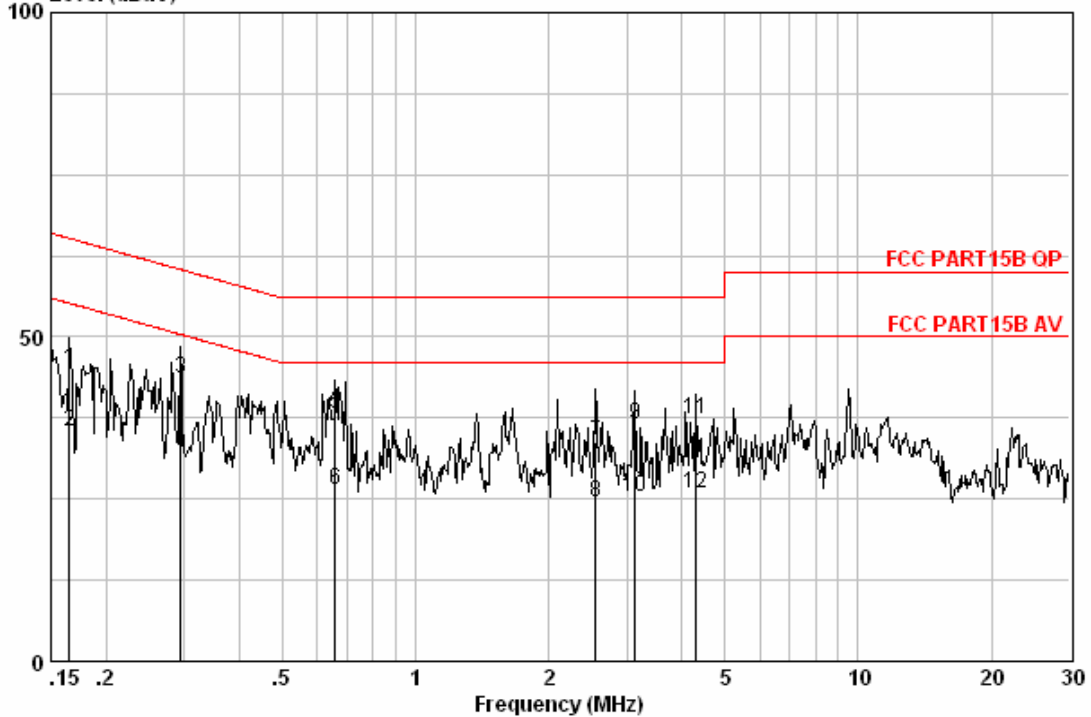
6.1.2 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Line

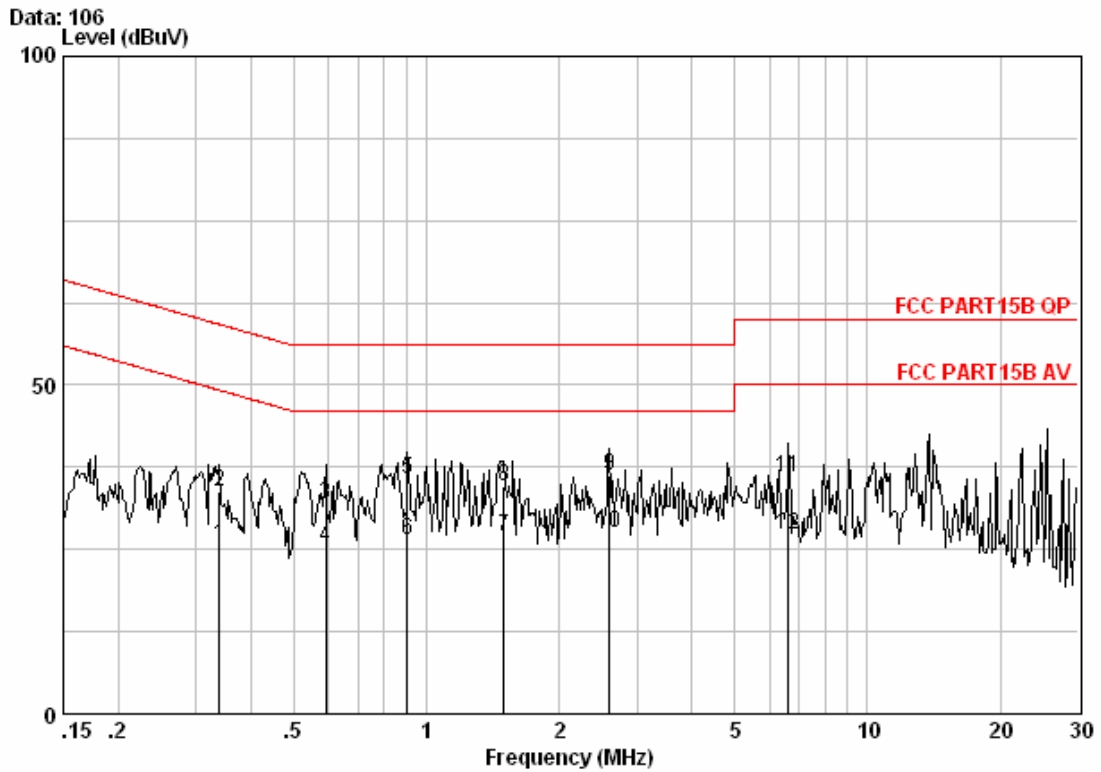
Data: 105
Level (dBuV)

Site : Shielding Room
Condition : FCC PART15B QP CE LINE
EUT : SLIDE & NEGATIVE SCANNER
JOB NO. : 2424IT
MODE : PC MODE

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16501	0.04	-0.05	44.95	44.94	65.21	-20.27	QP
2	0.16501	0.04	-0.05	35.52	35.51	55.21	-19.70	Average
3 @	0.29398	0.05	-0.04	43.51	43.52	60.41	-16.89	QP
4	0.29398	0.05	-0.04	32.25	32.26	50.41	-18.15	Average
5	0.65778	0.06	-0.05	38.20	38.21	56.00	-17.79	QP
6	0.65778	0.06	-0.05	26.32	26.33	46.00	-19.67	Average
7	2.554	0.13	-0.07	33.86	33.92	56.00	-22.08	QP
8	2.554	0.13	-0.07	24.41	24.47	46.00	-21.53	Average
9	3.140	0.14	-0.08	36.55	36.61	56.00	-19.39	QP
10	3.140	0.14	-0.08	25.36	25.42	46.00	-20.58	Average
11	4.315	0.16	-0.10	37.18	37.25	56.00	-18.75	QP
12	4.315	0.16	-0.10	25.74	25.80	46.00	-20.20	Average



Neutral



Site : Shielding Room
Condition : FCC PART15B QP CE NEUTRAL
EUT : SLIDE & NEGATIVE SCANNER
JOB NO. : 2424IT
MODE : PC MODE

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.33920	0.05	-0.04	25.50	25.51	49.22	-23.71	Average
2	0.33920	0.05	-0.04	33.78	33.79	59.22	-25.43	QP
3	0.59164	0.06	-0.04	31.86	31.88	56.00	-24.12	QP
4	0.59164	0.06	-0.04	25.20	25.22	46.00	-20.78	Average
5	0.90394	0.07	-0.04	35.77	35.80	56.00	-20.20	QP
6	0.90394	0.07	-0.04	26.40	26.43	46.00	-19.57	Average
7	1.495	0.10	-0.05	26.80	26.85	46.00	-19.15	Average
8	1.495	0.10	-0.05	34.45	34.50	56.00	-21.50	QP
9	2.594	0.13	-0.07	36.16	36.23	56.00	-19.77	QP
10	2.594	0.13	-0.07	27.50	27.56	46.00	-18.44	Average
11	6.627	0.19	-0.17	36.07	36.09	60.00	-23.91	QP
12	6.627	0.19	-0.17	27.10	27.12	50.00	-22.88	Average



6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	Class B
Limit:	40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz 54.0 dB μ V/m above 960MHz
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

6.2.1 E.U.T. Operation

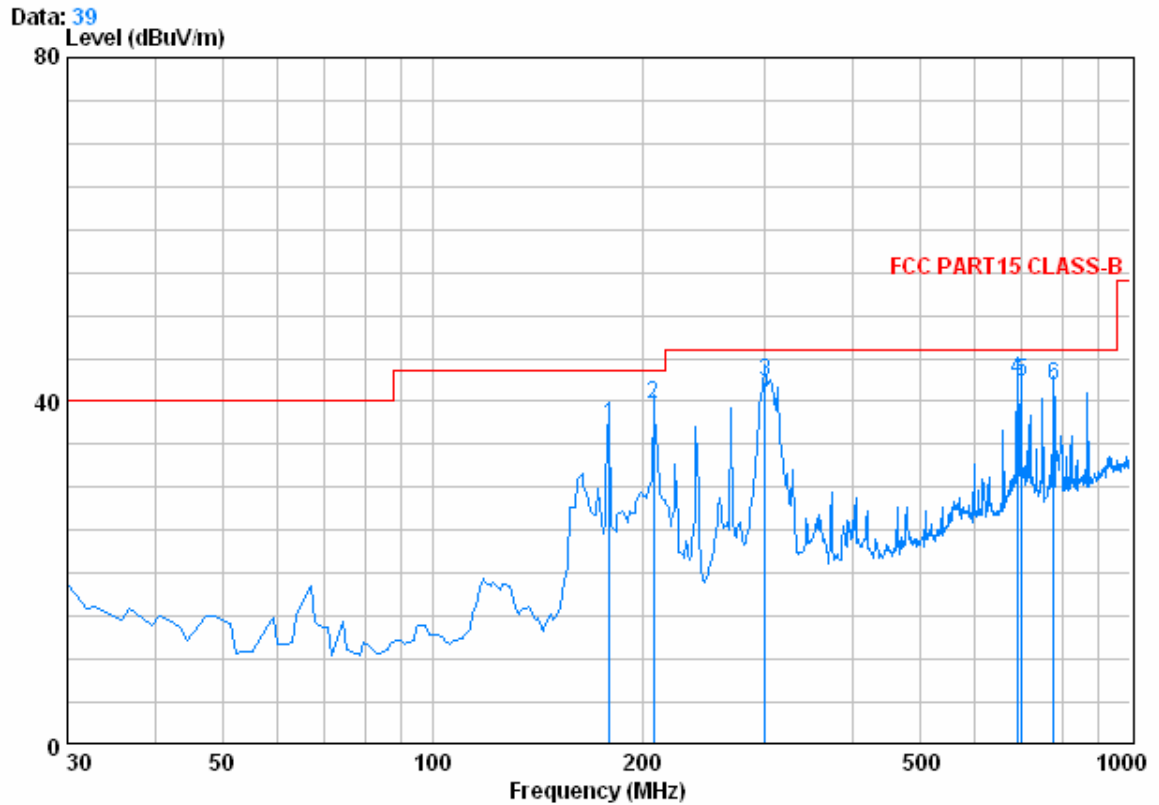
Operating Environment:			
Temperature:	24.0 °C	Humidity:	50 % RH
		Atmospheric Pressure:	1010 mbar
EUT Operation:	Test in PC mode, Build the connection between the EUT and PC, Keep data exchanging.		

6.2.2 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.



Horizontal

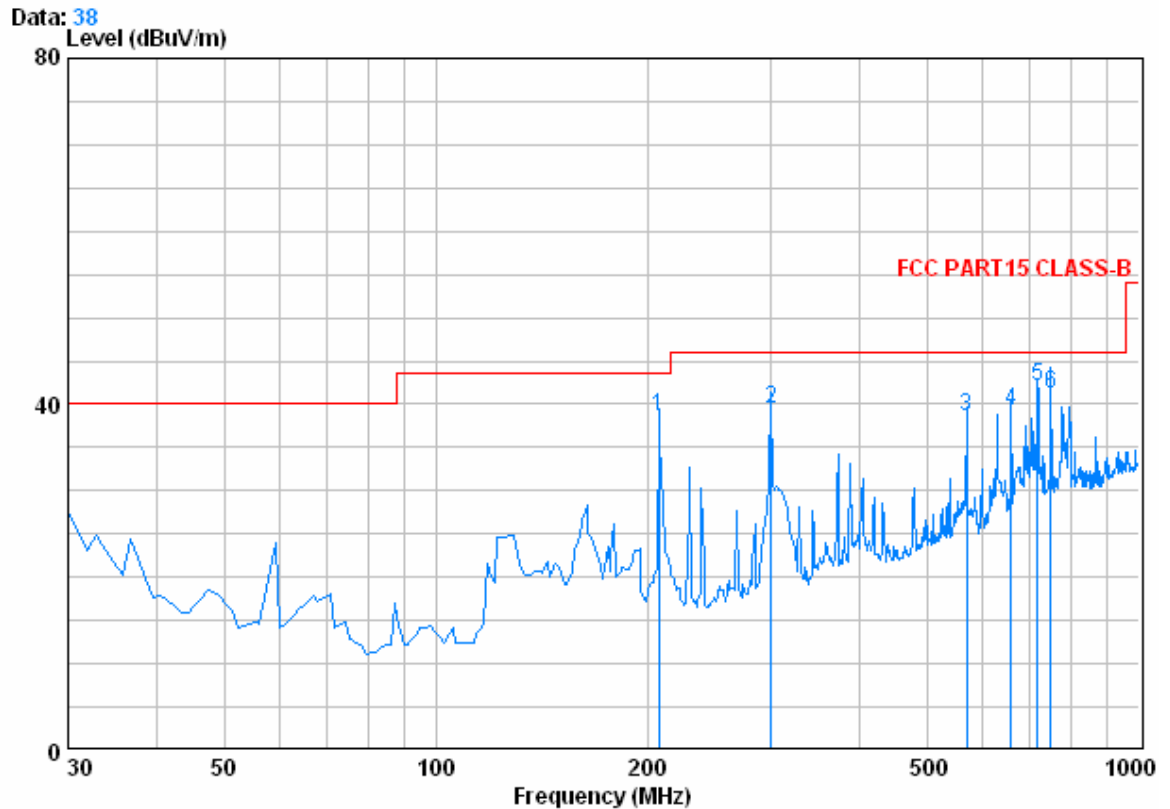


Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL
EUT : Slide & negative scanner
JobNo. : 2424IT
Mode : PC

		Cable&Antenna Preamp			Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	179.380	1.37	9.87	27.26	53.39	37.37	43.50	-6.13
2	207.510	1.45	10.61	27.11	54.76	39.70	43.50	-3.80
3	299.660	1.90	13.85	26.72	53.24	42.26	46.00	-3.74
4 @	688.630	2.88	21.52	27.31	45.37	42.46	46.00	-3.54
5	699.300	2.90	21.60	27.28	45.03	42.25	46.00	-3.75
6	777.870	3.14	22.01	27.01	43.74	41.87	46.00	-4.13



Vertical



Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL
EUT : Slide & negative scanner
JobNo. : 2424IT
Mode : PC

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	207.510	1.45	10.61	27.11	53.54	38.48	43.50	-5.02
2	299.660	1.90	13.85	26.72	50.38	39.41	46.00	-6.59
3	568.350	2.67	19.05	27.65	44.53	38.60	46.00	-7.40
4	657.590	2.82	20.84	27.42	42.98	39.23	46.00	-6.77
5	717.730	2.96	21.60	27.22	44.69	42.02	46.00	-3.98
6	749.740	3.06	21.70	27.11	43.61	41.26	46.00	-4.74