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Report No.: SZEM110800289102

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FCC Test Report

Application No.: SZEM1108002891RF
Applicant: Shenzhen AEE Technology CO., LTD
Address of Applicant: AEE Hi-Tech Park, Sun Industrial Area, Xili, Nanshan District, Shenzhen, China 518108
Manufacturer/ Factory: Shenzhen AEE Technology CO., LTD
Address of Manufacturer/ Factory: AEE Hi-Tech Park, Sun Industrial Area, Xili, Nanshan District, Shenzhen, China 518108
FCC ID: YVV-8205872
Equipment Under Test (EUT):
EUT Name: G-Eye 720
Model No.: 8205872
Standards: FCC PART15 SUBPART B: 2010
Date of Receipt: 2011-08-17
Date of Test: 2011-08-18 TO 2011-10-21
Date of Issue: 2011-10-26

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.

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. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 25GHz)	FCC PART 15, SUBPART B: 2010	15.109	Class B	PASS
Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2010	15.107	Class B	PASS



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4 General Information

4.1 Details of E.U.T.

Product Name:	G-Eye 720
Model No.:	8205872
Operation Frequency:	433.956MHz
Modulation Type:	AM
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	G-Eye 720(RX):3.7V 1000mAh
HDMI Cable:	92 cm (2 core)
AV Cable:	91 cm (3 core)
USB Cable:	95 cm (3 core)

4.2 Description of Support Units

The EUT has been tested with associated equipment below:

Description	Manufacturer	Model No.
Samsung Television	Samsung	2232MW

4.3 Standards Applicable for Testing

The customer requested FCC tests for the EUT.
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, March 16, 2011
- **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

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2012-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2012-03-11
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2012-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2011-11-09
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2012-05-26
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2011-11-09
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2011-11-09
9	Band filter	Amindeon	Asi 3314	SEL0094	2012-05-26
10	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2011-11-09
11	EMI Test Receiver (9K-3GHz)	Rohde & Schwarz	ESCI	SEL0175	2012-05-26

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2012-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2010-10-26
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2012-05-26
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2012-01-17
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2012-01-17
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2012-01-17
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2012-05-26
8	Coaxial Cable	SGS	N/A	SEL0024	2012-05-29



General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2011-11-04
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-03-10
3	Barometer	ChangChun	DYM3	SEL0088	2012-05-18



6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: 15.107
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: 25.0 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
EUT Operation: Test the EUT in PC mode, keep EUT exchange data with PC.

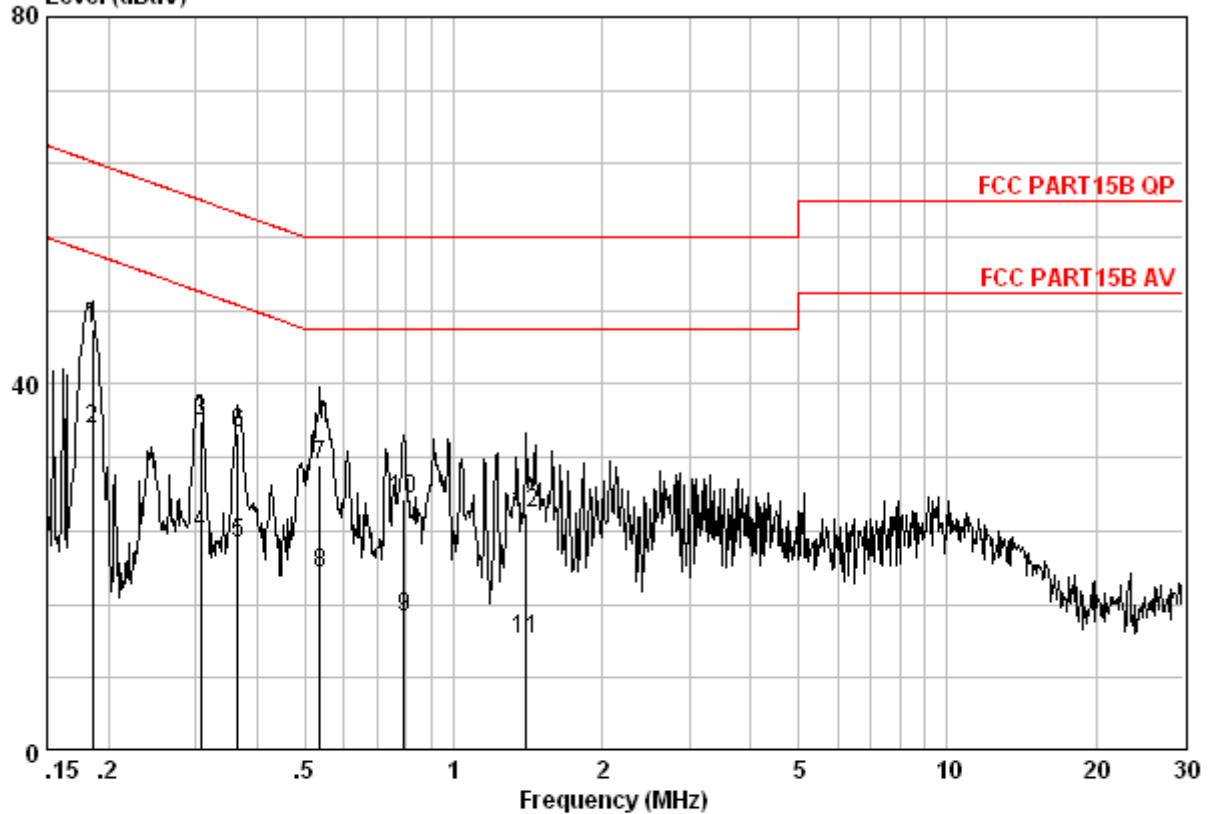
6.1.2 Measurement Data

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.



Live Line:

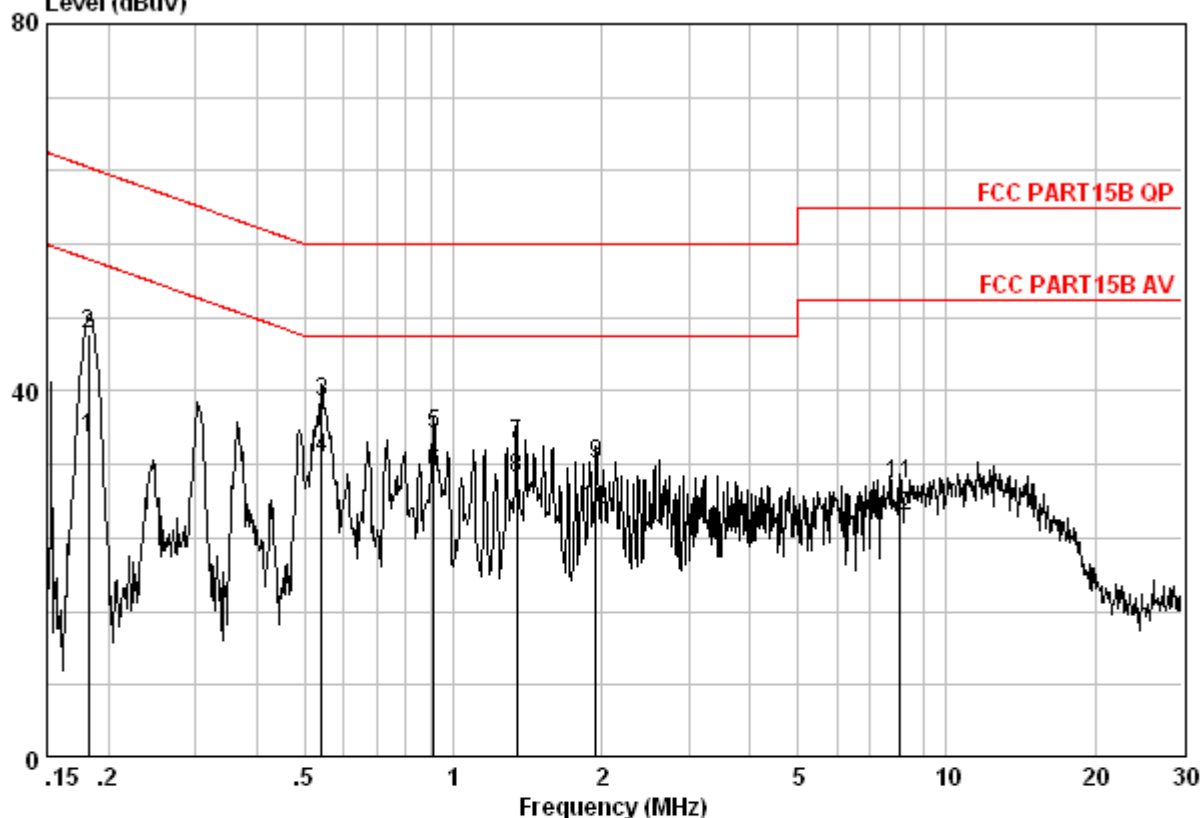
Data: 16
Level (dBuV)



	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18541	0.14	9.60	36.32	46.06	64.24	-18.18	QP
2	0.18541	0.14	9.60	25.32	35.06	54.24	-19.18	Average
3	0.30671	0.16	9.60	26.11	35.87	60.06	-24.19	QP
4	0.30671	0.16	9.60	14.11	23.87	50.06	-26.19	Average
5	0.36531	0.16	9.60	12.96	22.72	48.61	-25.88	Average
6	0.36531	0.16	9.60	24.96	34.72	58.61	-23.88	QP
7	0.53498	0.16	9.62	21.30	31.08	56.00	-24.92	QP
8	0.53498	0.16	9.62	9.70	19.48	46.00	-26.52	Average
9	0.79180	0.18	9.70	4.80	14.68	46.00	-31.32	Average
10	0.79180	0.18	9.70	17.60	27.48	56.00	-28.52	QP
11	1.403	0.20	9.70	2.20	12.10	46.00	-33.90	Average
12	1.403	0.20	9.70	16.10	26.00	56.00	-30.00	QP

Neutral Line:

Data: 17
Level (dBuV)



	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18249	0.14	9.60	25.24	34.98	54.37	-19.39	Average
2	0.18249	0.14	9.60	36.58	46.32	64.37	-18.05	QP
3	0.54068	0.16	9.62	29.00	38.78	56.00	-17.22	QP
4	0.54068	0.16	9.62	22.89	32.68	46.00	-13.32	Average
5	0.91357	0.19	9.70	25.42	35.32	56.00	-20.68	QP
6	0.91357	0.19	9.70	21.23	31.12	46.00	-14.88	Average
7	1.345	0.20	9.70	24.37	34.27	56.00	-21.73	QP
8	1.345	0.20	9.70	20.56	30.46	46.00	-15.54	Average
9	1.949	0.20	9.70	22.11	32.01	56.00	-23.99	QP
10	1.949	0.20	9.70	17.12	27.02	46.00	-18.98	Average
11	8.062	0.25	9.86	19.82	29.94	60.00	-30.06	QP
12	8.062	0.25	9.86	16.20	26.32	50.00	-23.68	Average





6.2 Radiated Emissions, 30MHz to 25GHz

Test Requirement:	FCC Part15 B
Test Method:	15.109
Frequency Range:	30MHz to 25GHz
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) below 1GHz Peak for pre-scan (1MHz resolution bandwidth) above 1GHz Quasi-Peak if maximised peak within 6dB of limit

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test the EUT in Receiving mode, keep the EUT in receiving mode;

Test the EUT in PC mode, keep EUT exchange data with PC.

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 BiConiLog antenna with 2 orthogonal polarities.

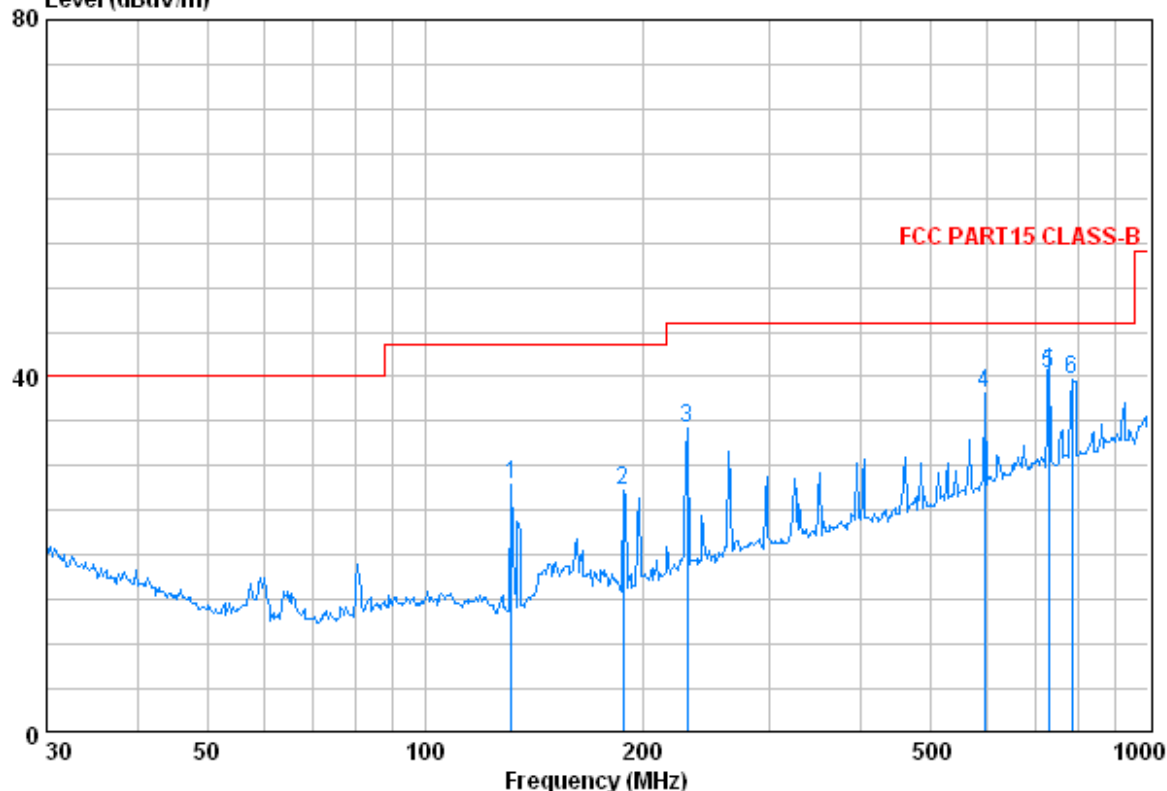
Below 1GHz

Receiving

Horizontal:

Data: 7

Level (dBuV/m)



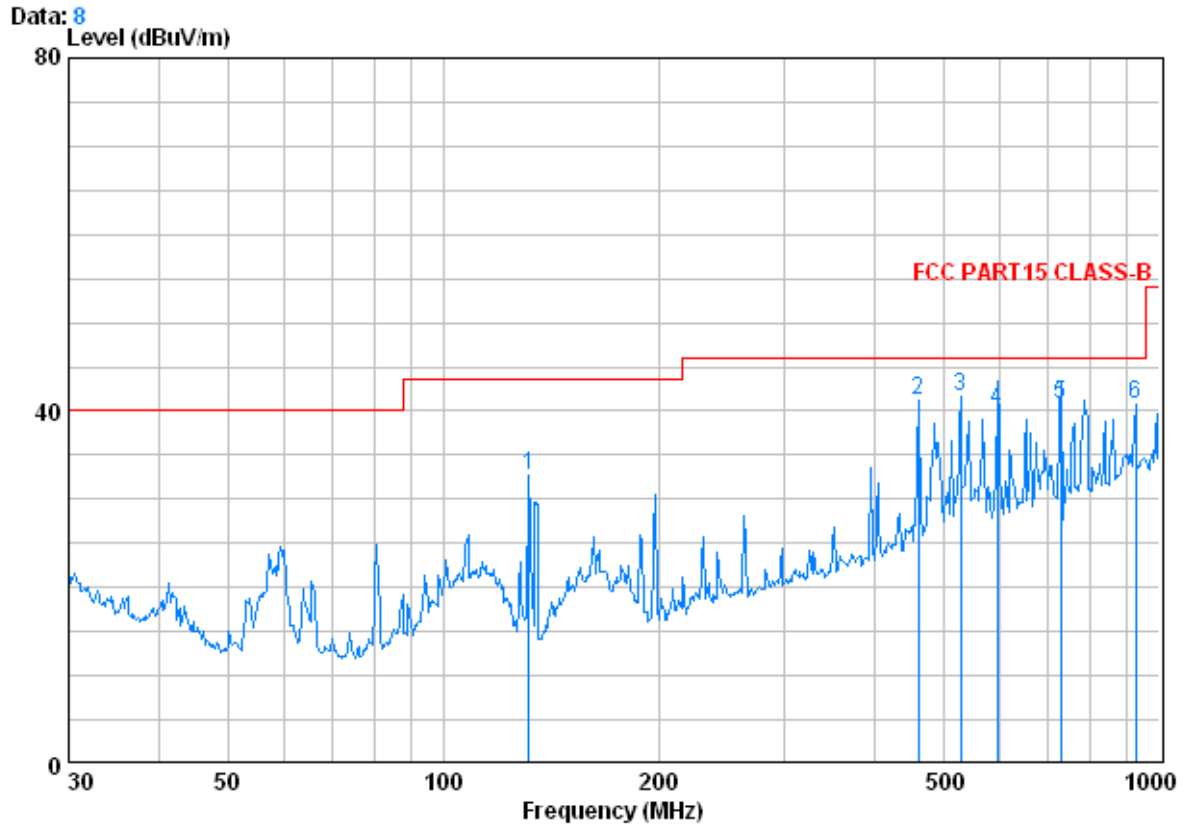
		CableAntenna Preamplifier			Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	131.758	1.28	7.78	27.00	45.79	27.85	43.50	-15.65	QP
2	187.753	1.38	10.06	26.74	42.49	27.18	43.50	-16.32	QP
3	230.907	1.58	11.70	26.59	47.45	34.14	46.00	-11.86	QP
4	593.050	2.69	19.57	27.55	43.35	38.05	46.00	-7.95	QP
5	728.600	2.99	21.61	27.38	43.20	40.43	46.00	-5.57	QP
6	785.093	3.16	22.03	27.31	41.83	39.71	46.00	-6.29	QP



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Vertical:



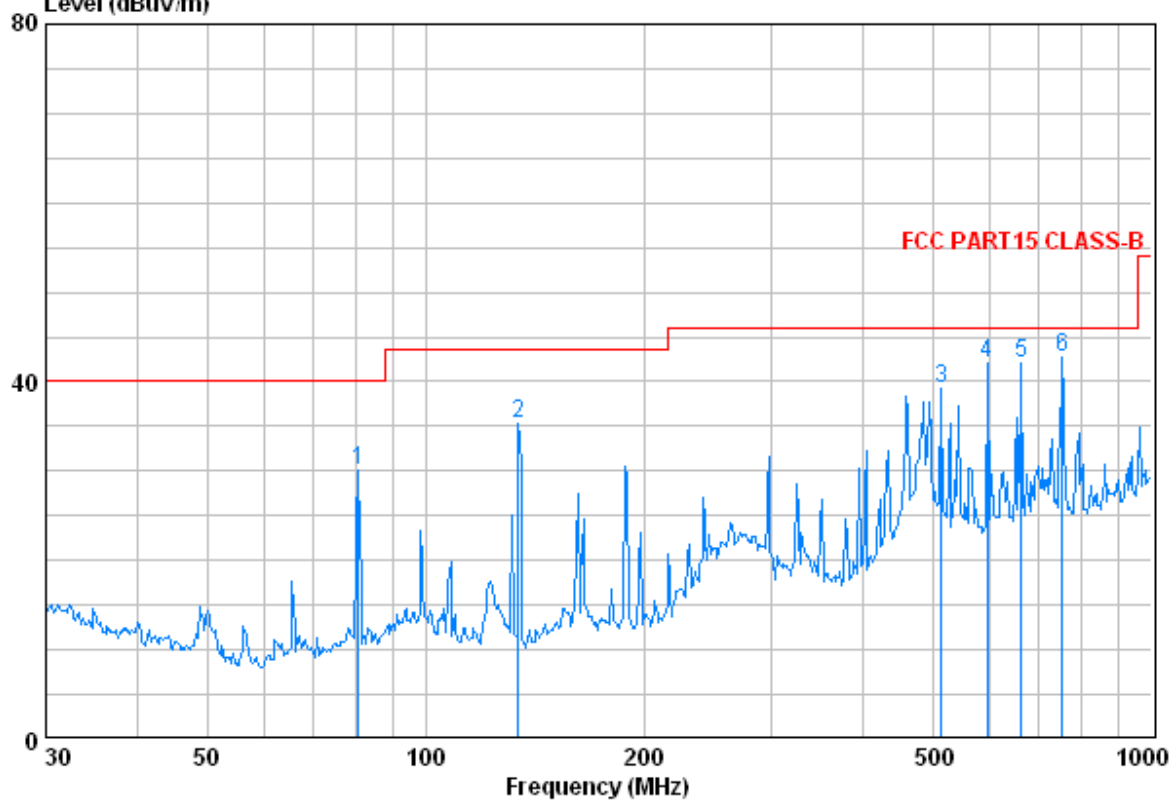
	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	131.758	1.28	7.78	27.00	50.63	32.69	43.50	-10.81	QP
2	460.727	2.45	17.29	27.50	49.06	41.31	46.00	-4.69	QP
3	528.246	2.63	18.56	27.65	48.08	41.62	46.00	-4.38	QP
4	593.700	2.69	19.63	27.55	45.30	40.07	46.00	-5.93	QP
5	728.600	2.99	21.61	27.38	43.50	40.73	46.00	-5.27	QP
6	925.756	3.63	23.30	26.64	40.37	40.65	46.00	-5.35	QP



PC

Horizontal:

Data: 96
Level (dBuV/m)

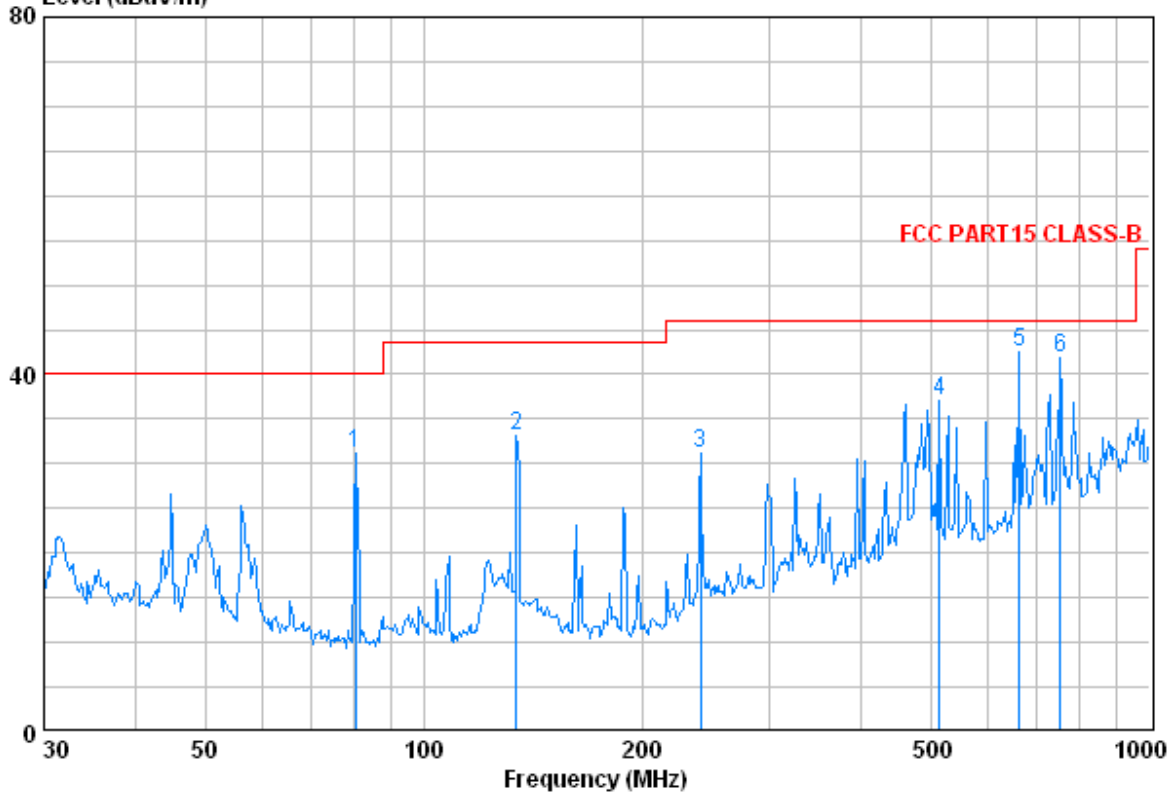


		CableAntenna		Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	80.927	1.10	7.79	27.23	48.39	30.06	40.00	-9.94
2	134.088	1.28	7.86	26.99	53.06	35.22	43.50	-8.28
3	513.633	2.62	18.18	27.67	46.09	39.21	46.00	-6.79
4	593.050	2.69	19.57	27.55	47.43	42.14	46.00	-3.86
5	661.151	2.83	21.00	27.46	45.76	42.13	46.00	-3.87
6	752.743	3.07	21.73	27.35	45.25	42.70	46.00	-3.30



Vertical:

Data: 95
Level (dBuV/m)



	Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	80.644	1.10	7.76	27.23	49.51	31.14	40.00 -8.86
2	134.088	1.28	7.86	26.99	51.07	33.23	43.50 -10.27
3	240.830	1.63	12.01	26.56	44.02	31.10	46.00 -14.90
4	513.633	2.62	18.18	27.67	43.88	37.00	46.00 -9.00
5	661.151	2.83	21.00	27.46	46.16	42.53	46.00 -3.47
6	752.743	3.07	21.73	27.35	44.50	41.95	46.00 -4.05



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Above 1GHz

Receiving

Peak measurement

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1044.000	2.22	27.29	39.16	58.62	48.97	74.00	-25.03	Vertical
1380.000	2.44	27.88	39.30	51.38	42.40	74.00	-31.60	Vertical
1776.000	2.70	30.20	39.47	49.48	42.91	74.00	-31.09	Vertical
2608.000	3.10	32.86	40.02	48.38	44.32	74.00	-29.68	Vertical
4212.000	4.30	34.41	41.19	49.16	46.68	74.00	-27.32	Vertical
4228.000	4.32	34.51	41.22	55.46	53.07	74.00	-20.93	Vertical
1044.000	2.22	27.29	39.16	54.45	44.80	74.00	-29.20	Horizontal
1456.000	2.49	28.04	39.33	49.97	41.17	74.00	-32.83	Horizontal
1776.000	2.70	30.20	39.47	51.12	44.55	74.00	-29.45	Horizontal
2148.000	2.89	32.08	39.67	49.72	45.02	74.00	-28.98	Horizontal
3076.000	3.38	33.37	40.35	49.60	46.00	74.00	-28.00	Horizontal
4192.000	4.29	34.36	41.18	50.15	47.62	74.00	-26.38	Horizontal

Remark:

1. As shown in this section, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
So, only the peak measurements were shown in the report.



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PC

Peak measurement

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2010.000	2.84	31.80	39.57	54.15	49.22	74.00	-24.78	Vertical
2655.000	3.12	32.91	40.05	54.43	50.41	74.00	-23.59	Vertical
3150.000	3.44	33.34	40.41	55.05	51.42	74.00	-22.58	Vertical
3850.000	4.04	33.63	40.93	53.73	50.47	74.00	-23.53	Vertical
4395.000	4.42	34.92	41.33	53.55	51.56	74.00	-22.44	Vertical
5150.000	4.83	34.55	41.66	55.39	53.11	74.00	-20.89	Vertical
1895.000	2.77	31.06	39.52	51.35	45.66	74.00	-28.34	Horizontal
2125.000	2.88	32.02	39.65	51.84	47.09	74.00	-26.91	Horizontal
2365.000	2.97	32.45	39.84	53.65	49.23	74.00	-24.77	Horizontal
3100.000	3.39	33.36	40.38	52.91	49.28	74.00	-24.72	Horizontal
4100.000	4.23	34.08	41.11	55.19	52.39	74.00	-21.61	Horizontal
5235.000	4.86	34.63	41.58	53.33	51.24	74.00	-22.76	Horizontal

Remark:

1.As shown in this section, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

So, only the peak measurements were shown in the report.