

FCC TEST REPORT

Applicant:	Ngai Lik Electronics Enterprises Limited
Address of Applicant:	Flat 29-32, 8/F., Block B, Focal Industrial Centre, 21 Man Lok Street, Hung Kowloon, Hong Kong.
Manufacturer:	Ngai Lik Electronics Enterprises Limited
Address of Manufacturer:	Flat 29-32, 8/F., Block B, Focal Industrial Centre, 21 Man Lok Street, Hung Kowloon, Hong Kong.
Product name:	37" Sound Bar
Model:	MIB668A, MIB668B, MIB668C, MIX668A, IT123B, MIX668B, MIX668C
Rating(s):	100-240V or 120V~ 50/60Hz, 50W
Trademark:	iLIVE for IT123B
FCC register number:	935596
Standards:	FCC Part15 subpart B:2010
FCC ID:	Y8AMIB668
Data of Receipt:	2012-07-23
Date of Test:	2012-07-24~2012-07-25
Date of Issue:	2012-07-30
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

July.30.2012 Jummy Qiu

Project Engineer

Reviewed by:

July.30.2012

Pauler Li

Project Manager

Date

Name/Position

Signature

Date

Name/Position

Signature

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Testing Laboratory information:

Testing Laboratory Name : I-Test Laboratory
Address : 1-2 floor, South Block, Building A2 , No 3 Keyan Lu, Science City, Guangzhou, Guangdong Province, P.R. China
Testing location : Same as above
Tel..... : 0086-20-32209330
Fax : 0086-20-62824387
E-mail : itl@i-testlab.com

Possible test case verdicts:

- test case does not apply to the test object... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement . : F (Fail)

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

1. The models MIB668A, MIB668B, MIB668C are fully identical in the electrical circuit design, layout, component used and internal wiring, with differences being speaker grill and model number.
2. The models MIX668A, IT123B, MIX668B, MIX668C are fully identical in the electrical circuit design, layout, component used and internal wiring, with differences being speaker grill and model number.
3. The models MIX668A, IT123B, MIX668B, MIX668C were developed based on the MIB668A, MIB668B, MIB668C, and the EUT deleted Bluetooth/USB/SD/ Optical output and removed the relative PCB board. The other parts are same.

Tests shall be conducted on model MIB668A.

Test Summary:

The following standards have been applied to ensure the product conforms with the protection requirements of the council directive FCC part 15B.

Electromagnetic Emissions				
Test Item	Test Standard	Test Method	Class/Severity	Result
Conducted Emission(0.15-30MHz)	FCC part 15.107	ANSI C63.4:2009	Class B	PASS
Radiated Emission(30-1000MHz)	FCC part 15.109	ANSI C63.4:2009	Class B	PASS

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Section 1 General Information and Equipment Used

1.1 Client Information

Applicant: Ngai Lik Electronics Enterprises Limited
Address of Applicant: Flat 29-32, 8/F., Block B, Focal Industrial Centre, 21 Man Lok Street, Hung Hom, Kowloon, Hong Kong.

1.2 EUT General and Technical Descriptions

EUT Name: 37" Sound Bar
EUT Model: MIB668A, MIB668B, MIB668C, MIX668A, IT123B, MIX668B, MIX668C
EUT Trademark: iLIVE for IT123B
Input Voltage: 100-240V or 120V~
Frequency: 50/60Hz
Input Power/Current: 50W
Output rated: /
Power Cable Description: /
Other Cables Description: /
I/O Ports: /
Function(s) Description: /
Accessories information: /

1.3 Support Equipment(s) and Test Configuration

1.3.1 Details of Support Equipment(s)

Description	Manufacturer	Model No.	Connection	Working state
USB	SSK	/	/	Normal
SD	kingston	/	/	Normal

1.3.2 Working State of EUT

Power Supply of EUT: 120V~/60Hz
EUT Status: Test the EUT in Aux in, FM, Line in, USB and SD mode.

1.3.3 Block Diagram of Test Configuration

/

1.4 Equipment Used during Test

Conducted Emission					
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test receiver	R&S	ESCI	ITL-102	2012/06/08	2013/06/07
Two-line v-network	R&S	ENV216	ITL-103	2012/06/08	2013/06/07
Shielded Room	ETS•Lindgren	8*4*3	ITL-101	2012/03/12	2015/03/11

Radiated Emission					
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Semi-Anechoic chamber	ETS•Lindgren	FACT3 2.0	ITL-100	2012/04/11	2015/04/10
Shielding room	ETS•Lindgren	8*4*3	ITL-101	2012/03/12	2015/03/11
EMI Test receiver	R&S	ESVS10	ITL-111	2011/12/29	2012/12/28
EXA Spectrum Analyzer	Agilent Technologies	N9010A	ITL-114	2012/02/29	2013/02/29
Biconilog Antenna	ETS•Lindgren	3142D	ITL-105	2012/02/11	2013/02/10

Section 2 Emission Test Results**2.1 Conducted Emission at Mains Terminals, 150 kHz to 30MHz**

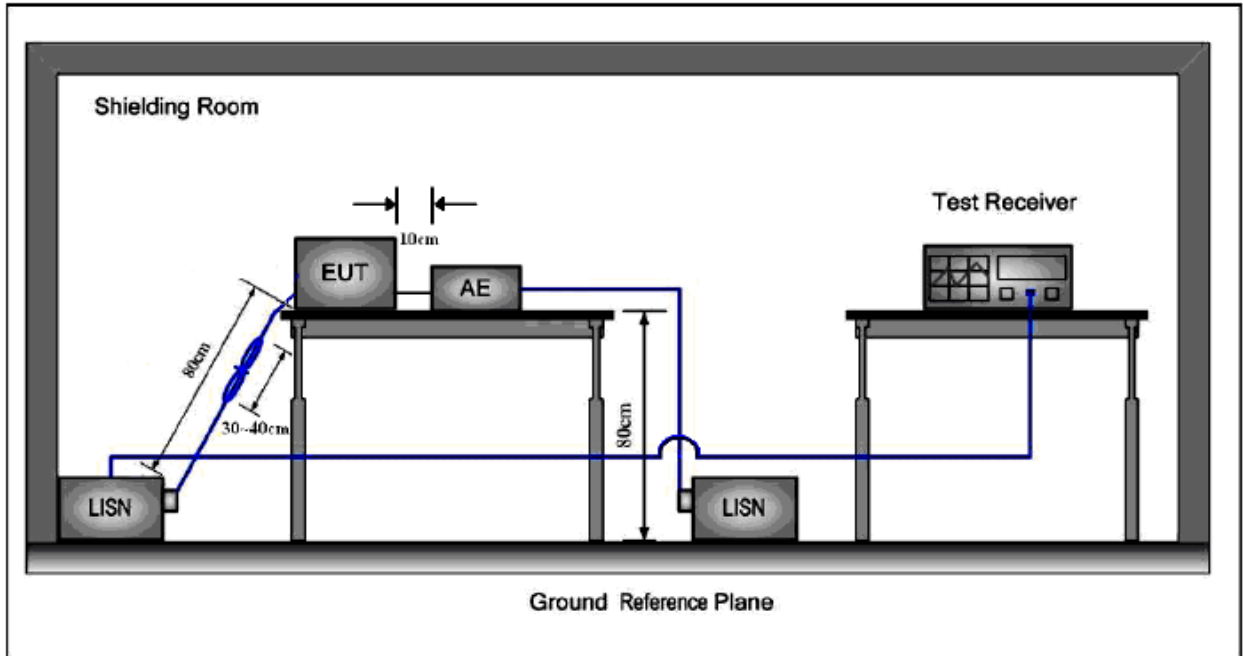
Test Requirement: FCC part 15.107
Test Method: ANSI C63.4:2009
Test Voltage: 120V AC
Test Date: 2012-07-24
Frequency Range: 150 kHz to 30MHz
Detector: Peak for pre-scan
Quasi-Peak and Average at frequency with maximum peak
(9 kHz resolution bandwidth)
Uncertainty: $2U_c (V) = 2.3\text{dB}$
Class / Limit: Class B

Frequency range MHz	Class B Limits dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
NOTE 1 :The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		
NOTE 2: The lower limit is applicable at the transition frequency.		

2.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.0 °C Humidity: 49 % RH Atmospheric Pressure: 101 k Pa
EUT Operation: Test the EUT in Aux in, FM, Line in, USB and SD mode.

2.1.2 Test Setup and Procedure



1. The mains terminal disturbance voltage test was conducted in a shielded room.
2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H}+5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

2.1.3 Measurement Data

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected. Please see the attached Quasi-peak and Average test results.

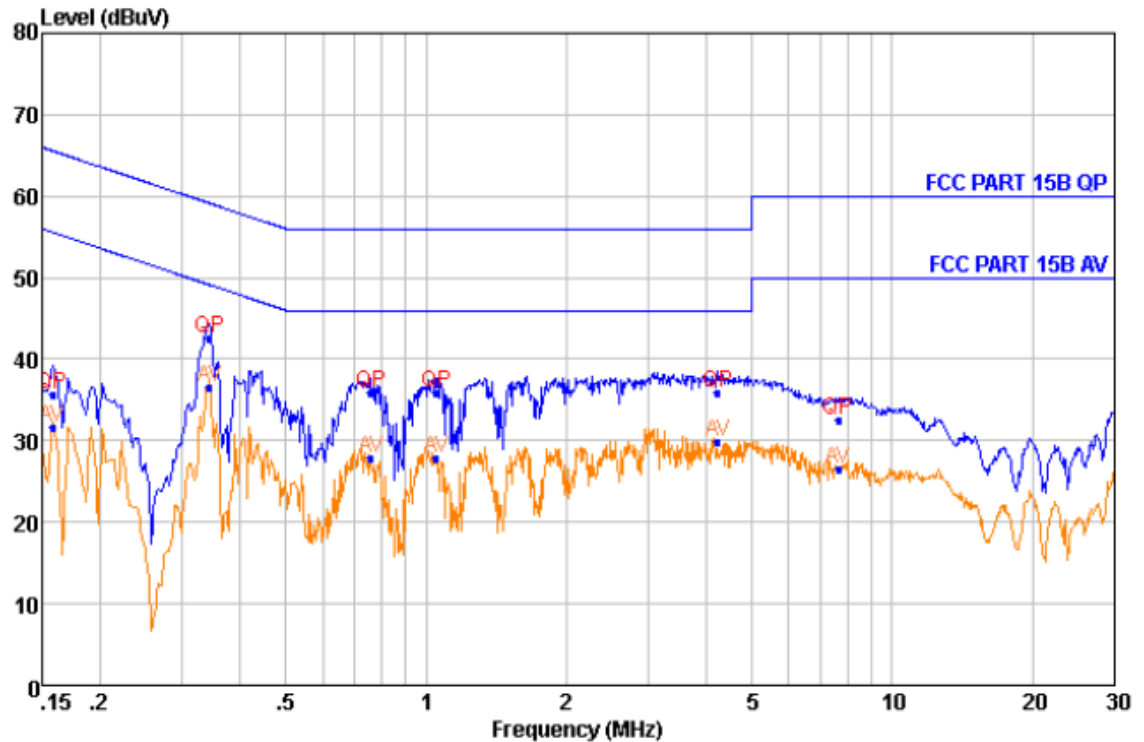
Model: MIB668A

Mode: USB

Live Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

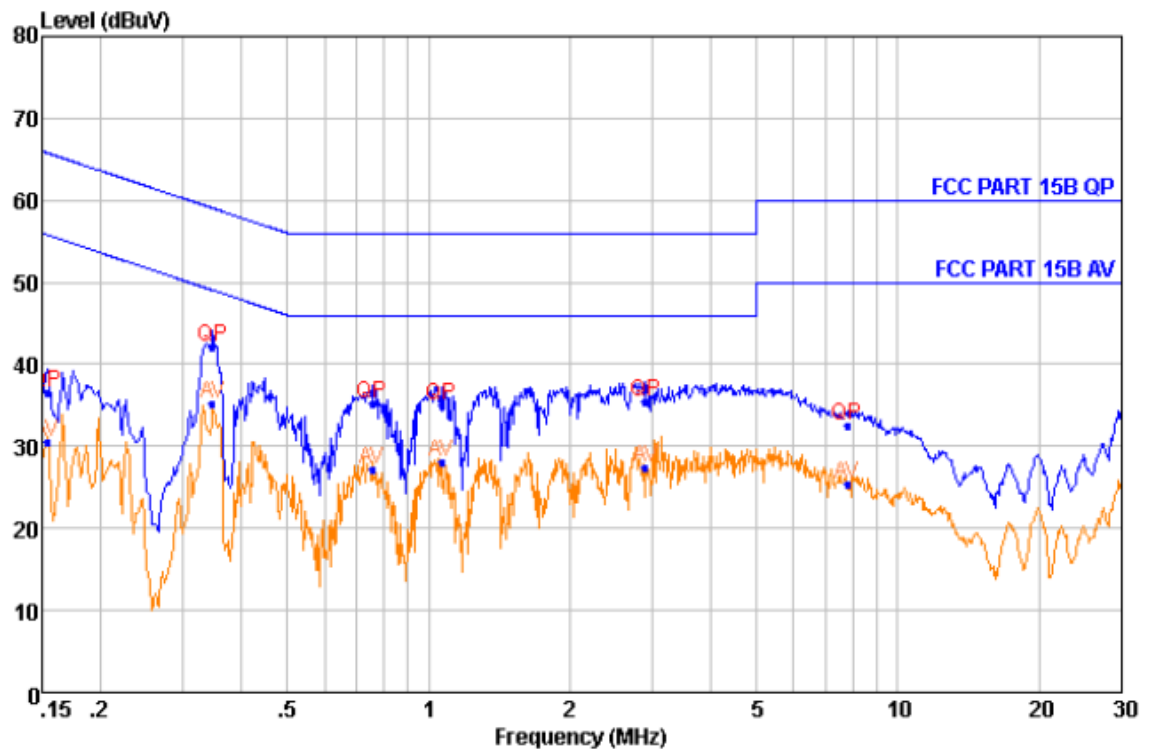
NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.158	35.60	QP	9.70	0.20	65.56	-29.96
2	0.158	31.60	Average	9.70	0.20	55.56	-23.96
3	0.343	42.61	QP	9.66	0.25	59.13	-16.52
4	0.343	36.61	Average	9.66	0.25	49.13	-12.52
5	0.763	35.79	QP	9.70	0.29	56.00	-20.21
6	0.763	27.79	Average	9.70	0.29	46.00	-18.21
7	1.054	35.88	QP	9.67	0.31	56.00	-20.12
8	1.054	27.88	Average	9.67	0.31	46.00	-18.12
9	4.224	35.80	QP	9.61	0.39	56.00	-20.20
10	4.224	29.80	Average	9.61	0.39	46.00	-16.20
11	7.646	32.51	QP	9.69	0.42	60.00	-27.49
12	7.646	26.51	Average	9.69	0.42	50.00	-23.49

Level=Read Level + Liscn Factor + Cable Loss

Neutral Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.154	36.50	QP	9.70	0.20	65.78	-29.28
2	0.154	30.50	Average	9.70	0.20	55.78	-25.28
3	0.346	42.11	QP	9.65	0.25	59.05	-16.94
4	0.346	35.11	Average	9.65	0.25	49.05	-13.94
5	0.759	35.19	QP	9.62	0.29	56.00	-20.81
6	0.759	27.19	Average	9.62	0.29	46.00	-18.81
7	1.065	35.08	QP	9.63	0.31	56.00	-20.92
8	1.065	28.08	Average	9.63	0.31	46.00	-17.92
9	2.900	35.40	QP	9.62	0.37	56.00	-20.60
10	2.900	27.40	Average	9.62	0.37	46.00	-18.60
11	7.810	32.51	QP	9.62	0.42	60.00	-27.49
12	7.810	25.51	Average	9.62	0.42	50.00	-24.49

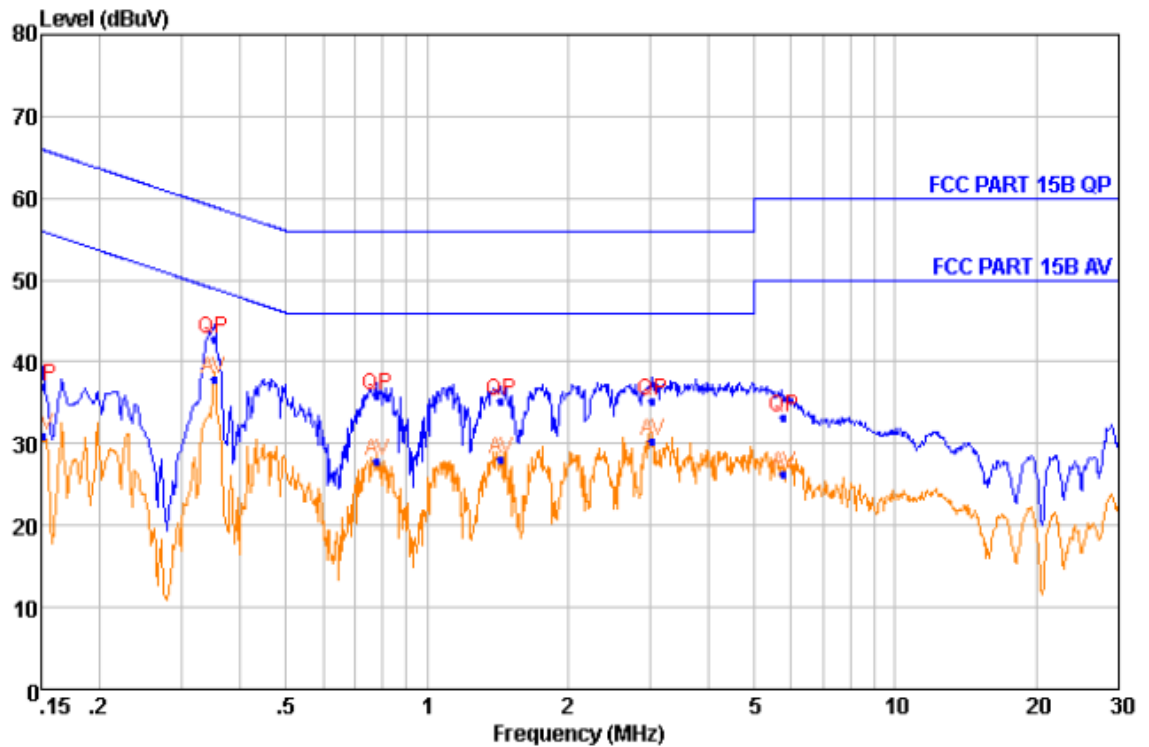
Level=Read Level + Liscn Factor + Cable Loss

Mode: Line in

Live Line:

Peak Scan:

Level (dBuV)



Quasi-peak and Average measurement

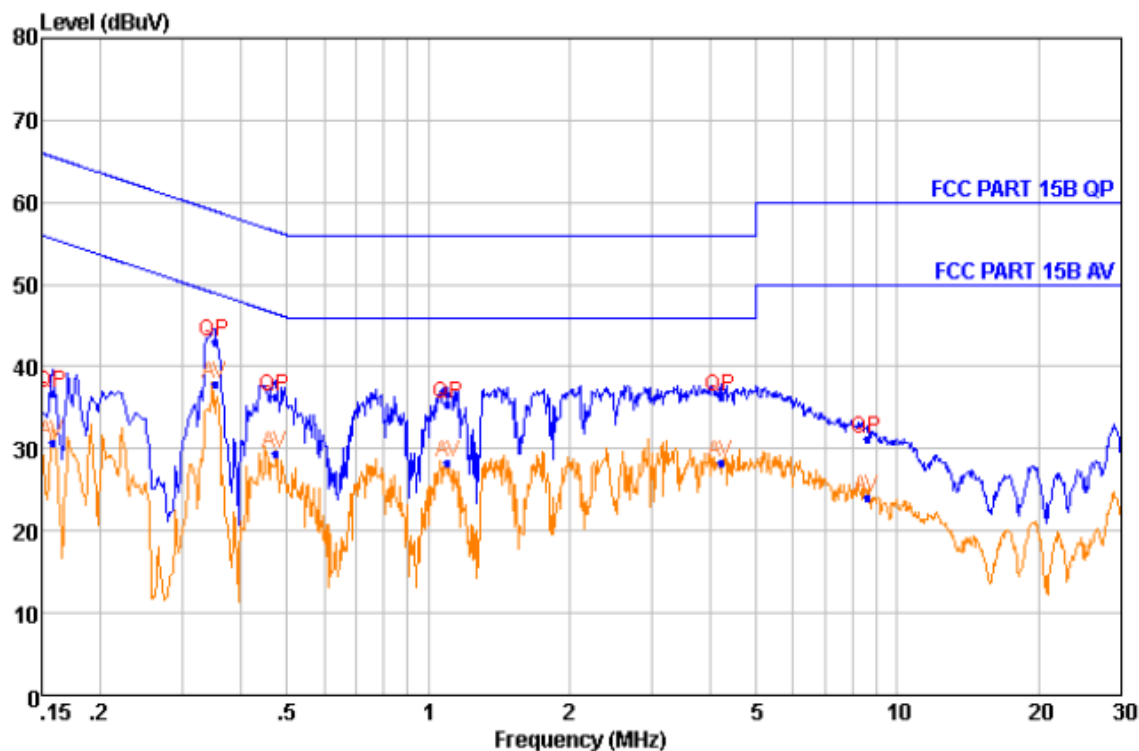
NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1	0.151	36.91	QP	9.70	0.20	65.96	-29.05
2	0.151	30.91	Average	9.70	0.20	55.96	-25.05
3	0.350	42.80	QP	9.66	0.25	58.96	-16.16
4	0.350	37.80	Average	9.66	0.25	48.96	-11.16
5	0.783	35.82	QP	9.70	0.29	56.00	-20.18
6	0.783	27.82	Average	9.70	0.29	46.00	-18.18
7	1.441	35.15	QP	9.66	0.33	56.00	-20.85
8	1.441	28.15	Average	9.66	0.33	46.00	-17.85
9	3.025	35.29	QP	9.63	0.37	56.00	-20.71
10	3.025	30.29	Average	9.63	0.37	46.00	-15.71
11	5.774	33.23	QP	9.64	0.41	60.00	-26.77
12	5.774	26.23	Average	9.64	0.41	50.00	-23.77

Level=Read Level + Lisen Factor + Cable Loss

Neutral Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.158	36.70	QP	9.70	0.20	65.56	-28.86
2	0.158	30.70	Average	9.70	0.20	55.56	-24.86
3	0.350	42.90	QP	9.65	0.25	58.96	-16.06
4	0.350	37.90	Average	9.65	0.25	48.96	-11.06
5	0.471	36.43	QP	9.67	0.26	56.49	-20.06
6	0.471	29.43	Average	9.67	0.26	46.49	-17.06
7	1.100	35.40	QP	9.63	0.31	56.00	-20.60
8	1.100	28.40	Average	9.63	0.31	46.00	-17.60
9	4.202	36.31	QP	9.62	0.39	56.00	-19.69
10	4.202	28.31	Average	9.62	0.39	46.00	-17.69
11	8.592	31.15	QP	9.62	0.43	60.00	-28.85
12	8.592	24.15	Average	9.62	0.43	50.00	-25.85

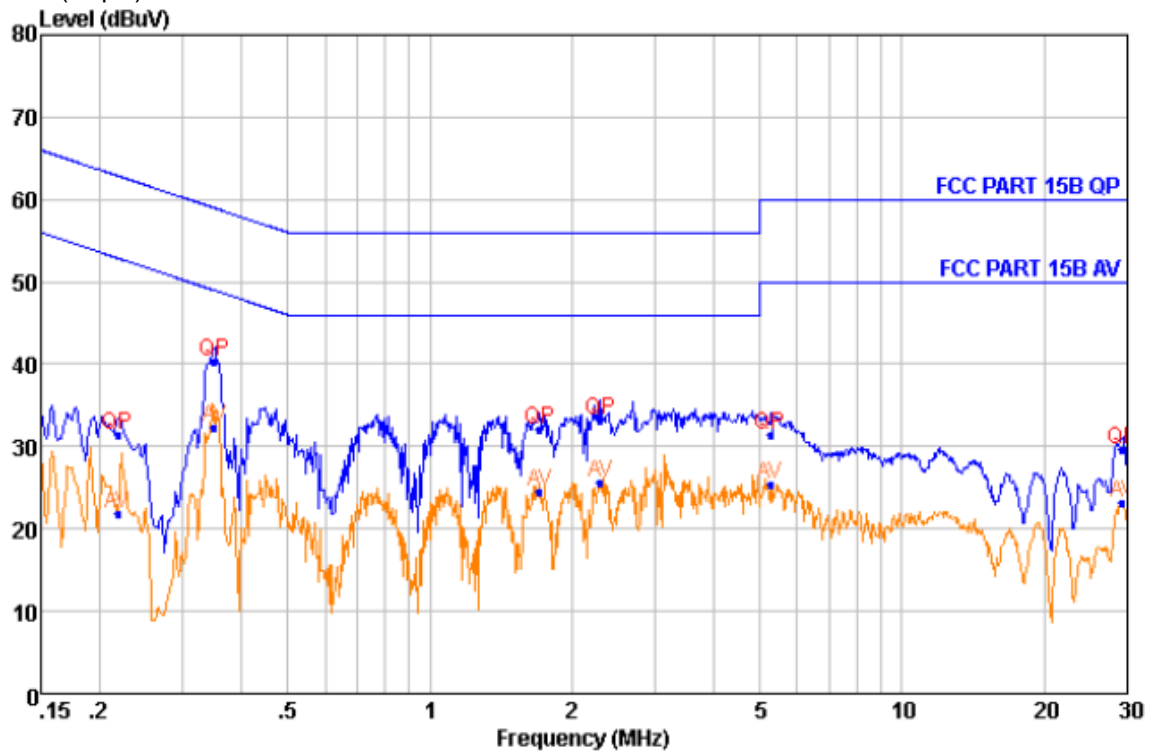
Level=Read Level + Lisn Factor + Cable Loss

Mode: FM

Live Line:

Peak Scan:

Level (dBuV)



Quasi-peak and Average measurement

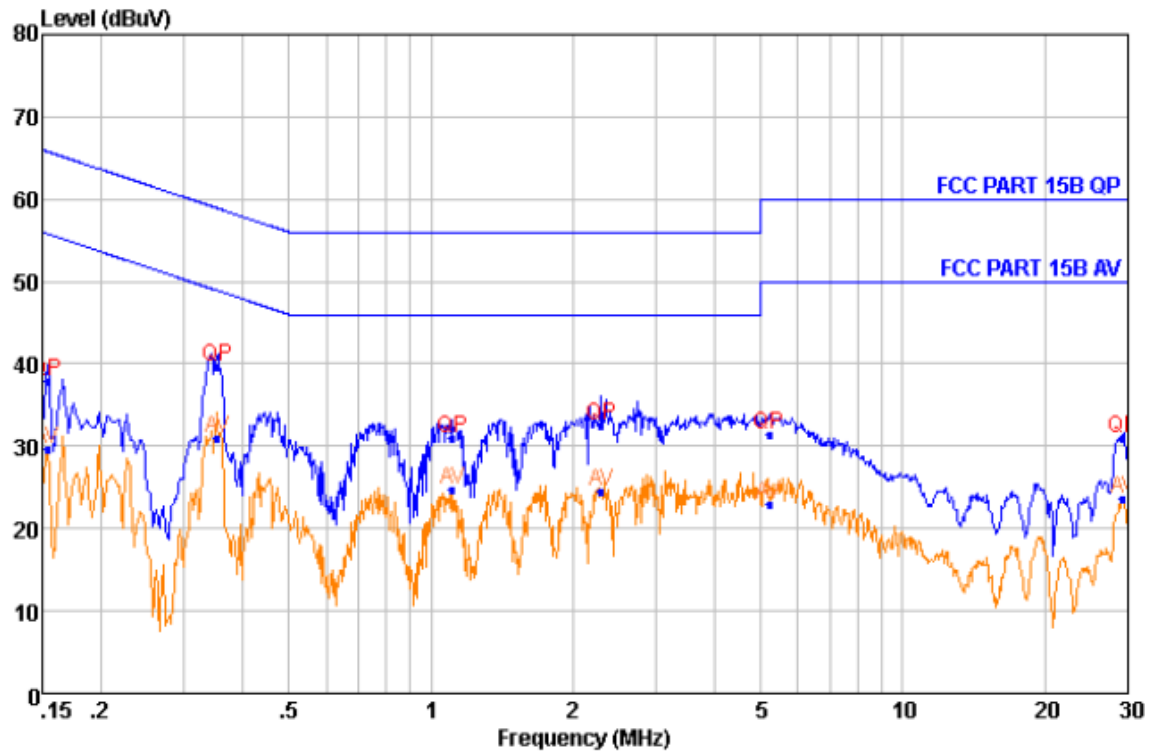
NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1	0.218	31.42	QP	9.68	0.22	62.90	-31.48
2	0.219	21.90	Average	9.68	0.22	52.88	-30.98
3	0.349	40.23	QP	9.66	0.25	58.98	-18.75
4	0.349	32.35	Average	9.66	0.25	48.98	-16.63
5	1.704	32.20	QP	9.65	0.34	56.00	-23.80
6	1.704	24.55	Average	9.65	0.34	46.00	-21.45
7	2.293	33.28	QP	9.64	0.35	56.00	-22.72
8	2.293	25.62	Average	9.64	0.35	46.00	-20.38
9	5.265	31.32	QP	9.62	0.40	60.00	-28.68
10	5.265	25.42	Average	9.62	0.40	50.00	-24.58
11	29.301	29.57	QP	9.65	0.50	60.00	-30.43
12	29.301	23.15	Average	9.65	0.50	50.00	-26.85

Level=Read Level + Lisen Factor + Cable Loss

Neutral Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.154	37.96	QP	9.70	0.20	65.80	-27.84
2	0.154	29.63	Average	9.70	0.20	55.78	-26.15
3	0.353	39.64	QP	9.65	0.25	58.89	-19.25
4	0.353	31.06	Average	9.65	0.25	48.89	-17.83
5	1.109	30.98	QP	9.63	0.31	56.00	-25.02
6	1.109	24.66	Average	9.63	0.31	46.00	-21.34
7	2.293	32.58	QP	9.62	0.35	56.00	-23.42
8	2.293	24.50	Average	9.62	0.35	46.00	-21.50
9	5.213	31.40	QP	9.62	0.40	60.00	-28.60
10	5.213	22.93	Average	9.62	0.40	50.00	-27.07
11	29.301	30.90	QP	9.62	0.50	60.00	-29.10
12	29.301	23.66	Average	9.62	0.50	50.00	-26.34

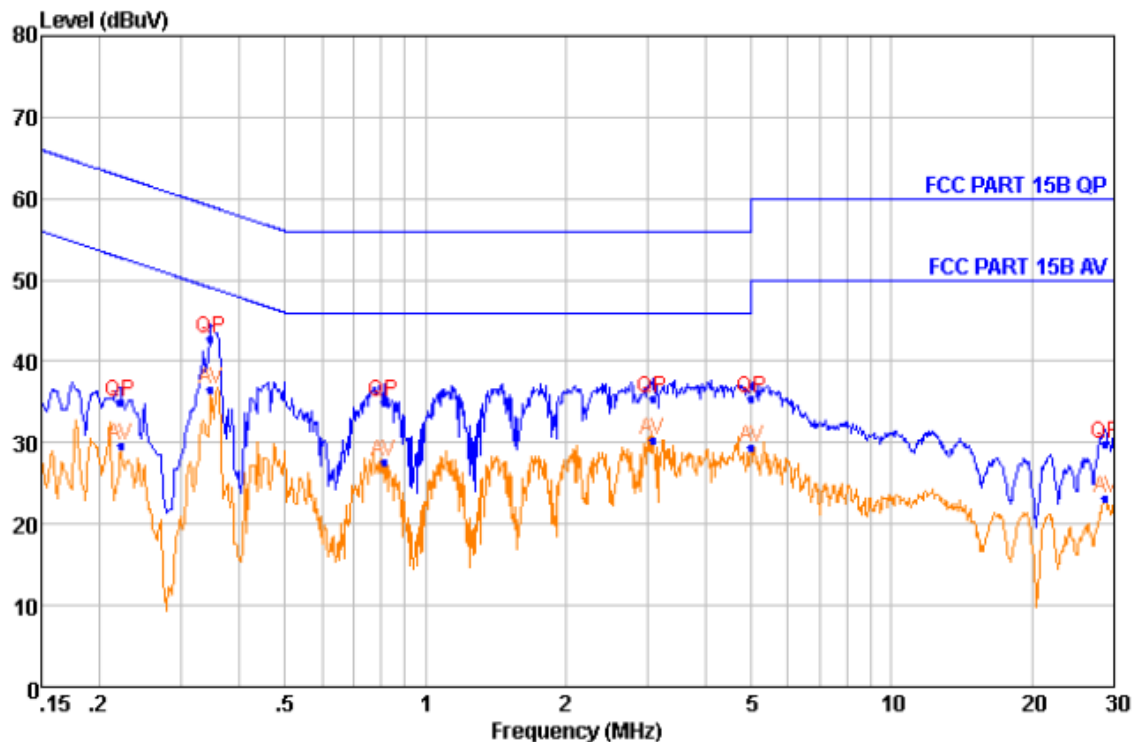
Level=Read Level + Liscn Factor + Cable Loss

Mode: Aux in

Live Line:

Peak Scan:

Level (dBuV)



Quasi-peak and Average measurement

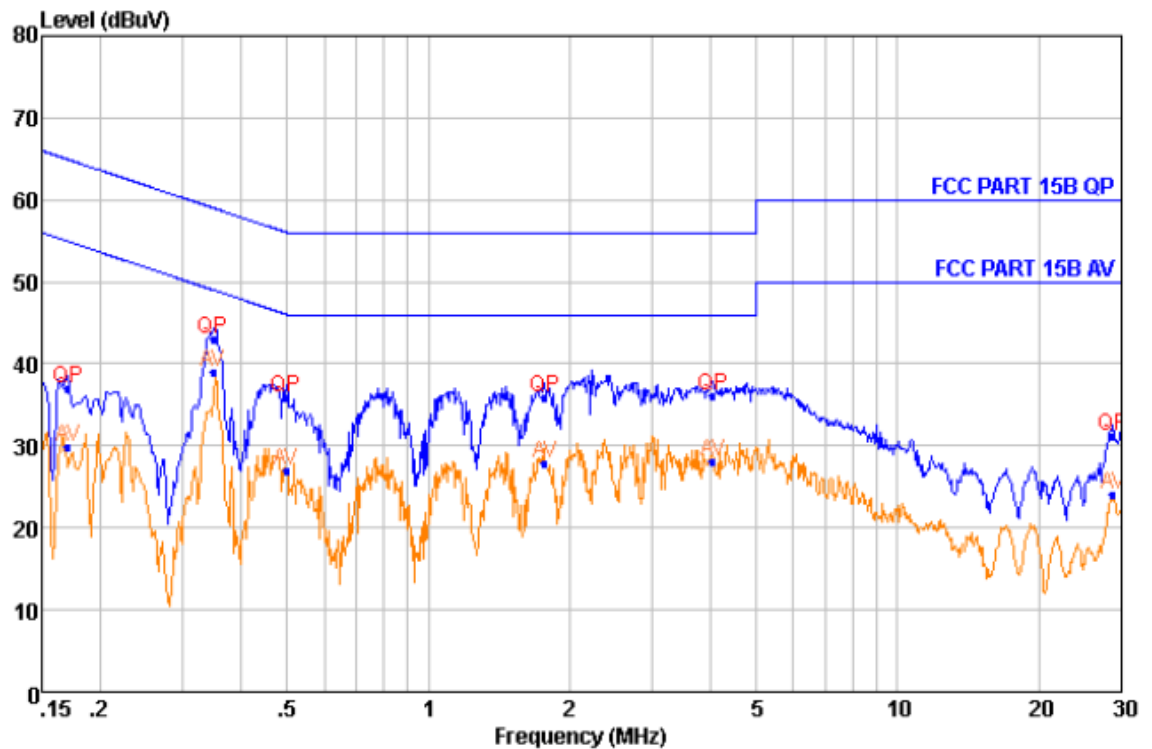
NO.	Freq MHz	Level dBuV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBuV	Margin dB
1	0.221	34.93	QP	9.68	0.22	62.76	-27.83
2	0.222	29.55	Average	9.68	0.22	52.74	-23.19
3	0.346	42.85	QP	9.66	0.25	59.06	-16.21
4	0.346	36.63	Average	9.66	0.25	49.06	-12.43
5	0.816	35.05	QP	9.69	0.30	56.00	-20.95
6	0.816	27.56	Average	9.69	0.30	46.00	-18.44
7	3.068	35.48	QP	9.63	0.37	56.00	-20.52
8	3.068	30.20	Average	9.63	0.37	46.00	-15.80
9	5.000	35.40	QP	9.60	0.40	56.00	-20.60
10	5.000	29.44	Average	9.60	0.40	46.00	-16.56
11	28.698	29.93	QP	9.65	0.50	60.00	-30.07
12	28.698	23.21	Average	9.65	0.50	50.00	-26.79

Level=Read Level + Lisn Factor + Cable Loss

Neutral Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.170	36.88	QP	9.67	0.21	64.94	-28.06
2	0.170	29.88	Average	9.67	0.21	54.94	-25.06
3	0.348	42.90	QP	9.65	0.25	59.00	-16.10
4	0.348	38.90	Average	9.65	0.25	49.00	-10.10
5	0.497	35.94	QP	9.67	0.27	56.05	-20.11
6	0.497	26.94	Average	9.67	0.27	46.05	-19.11
7	1.772	35.96	QP	9.62	0.34	56.00	-20.04
8	1.772	27.96	Average	9.62	0.34	46.00	-18.04
9	4.027	36.01	QP	9.62	0.39	56.00	-19.99
10	4.027	28.01	Average	9.62	0.39	46.00	-17.99
11	28.755	31.12	QP	9.62	0.50	60.00	-28.88
12	28.755	24.12	Average	9.62	0.50	50.00	-25.88

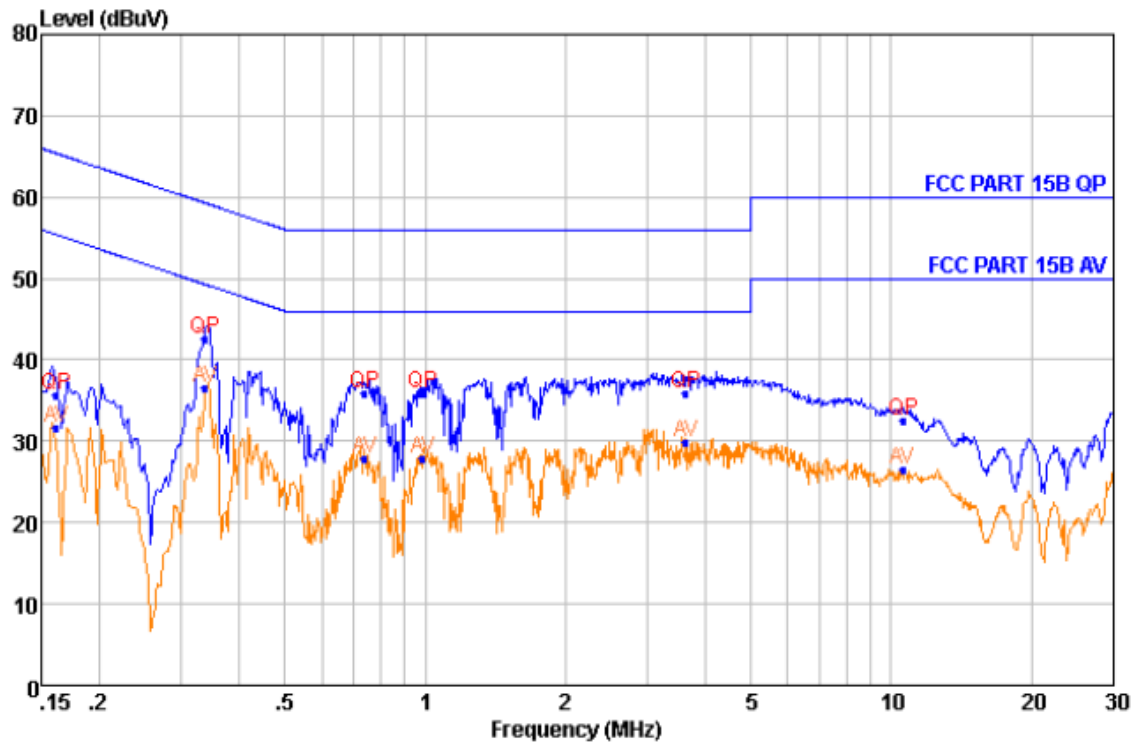
Level=Read Level + Lisn Factor + Cable Loss

Mode: SD

Live Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

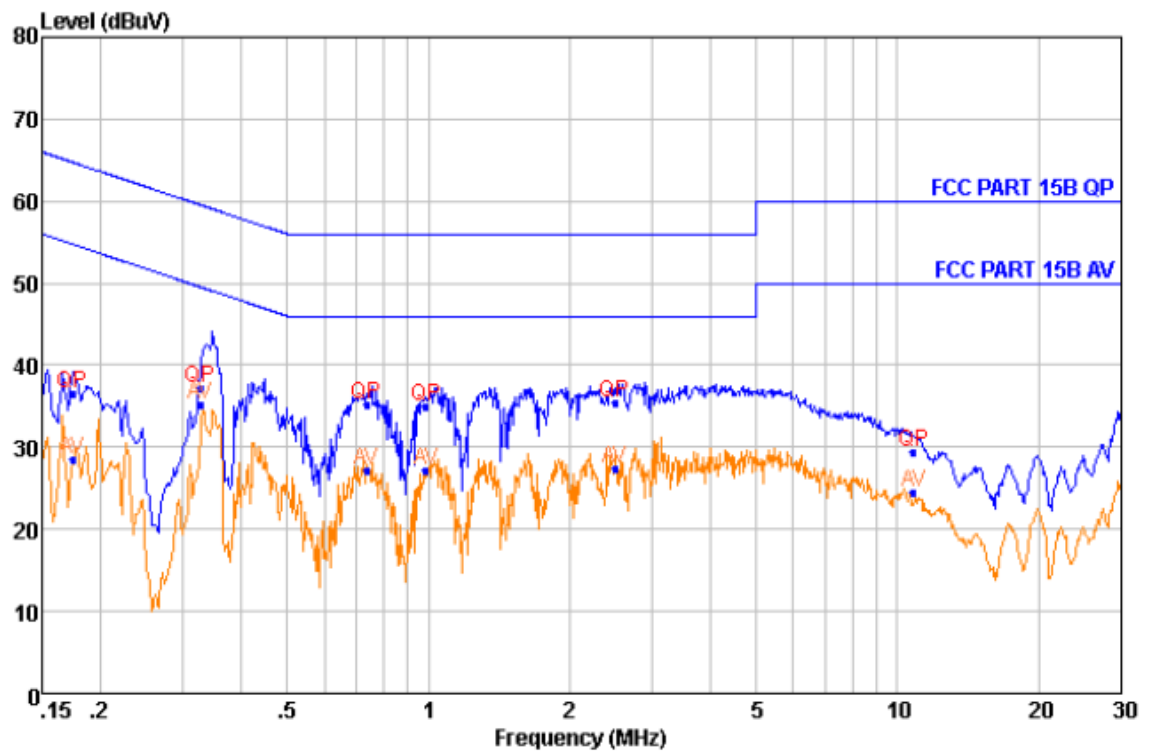
NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.161	35.60	QP	9.70	0.20	65.40	-29.80
2	0.161	31.60	Average	9.70	0.20	55.40	-23.80
3	0.336	42.61	QP	9.66	0.25	59.29	-16.68
4	0.337	36.61	Average	9.66	0.25	49.28	-12.67
5	0.742	35.79	QP	9.70	0.29	56.00	-20.21
6	0.742	27.79	Average	9.70	0.29	46.00	-18.21
7	0.988	35.88	QP	9.67	0.31	56.00	-20.12
8	0.988	27.88	Average	9.67	0.31	46.00	-18.12
9	3.620	35.80	QP	9.62	0.38	56.00	-20.20
10	3.620	29.80	Average	9.62	0.38	46.00	-16.20
11	10.600	26.51	Average	9.66	0.44	50.00	-23.49
12	10.646	32.51	QP	9.66	0.44	60.00	-27.49

Level=Read Level + Liscn Factor + Cable Loss

Neutral Line:

Peak Scan:

Level (dBμV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.174	36.50	QP	9.67	0.21	64.77	-28.27
2	0.174	28.50	Average	9.67	0.21	54.77	-26.27
3	0.326	37.11	QP	9.65	0.24	59.54	-22.43
4	0.326	35.11	Average	9.65	0.24	49.54	-14.43
5	0.739	35.19	QP	9.62	0.29	56.00	-20.81
6	0.739	27.19	Average	9.62	0.29	46.00	-18.81
7	0.986	27.08	Average	9.63	0.31	46.00	-18.92
8	0.987	35.08	QP	9.63	0.31	56.00	-20.92
9	2.500	35.40	QP	9.62	0.36	56.00	-20.60
10	2.500	27.40	Average	9.62	0.36	46.00	-18.60
11	10.810	29.51	QP	9.62	0.44	60.00	-30.49
12	10.810	24.51	Average	9.62	0.44	50.00	-25.49

Level=Read Level + Lism Factor + Cable Loss

2.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC part 15.109
Test Method: ANSI C63.4:2009
Test Voltage: 120V AC
Test Date: 2012-07-25
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Detector: Peak for pre-scan
Quasi-Peak if maximised peak within 6dB of limit
(120 kHz resolution bandwidth)
Uncertainty: $2U_c (V) = 3.35\text{dB}$
Class / Limit: Class B

Frequency range MHz	Quasi-peak limits dB ($\mu\text{V/m}$)
30 to 88	40
88 to 216	43.5
216 to 960	46
960 to 1000	54
At transitional frequencies the lower limit applies	

2.2.1 E.U.T. Operation

Operating Environment:

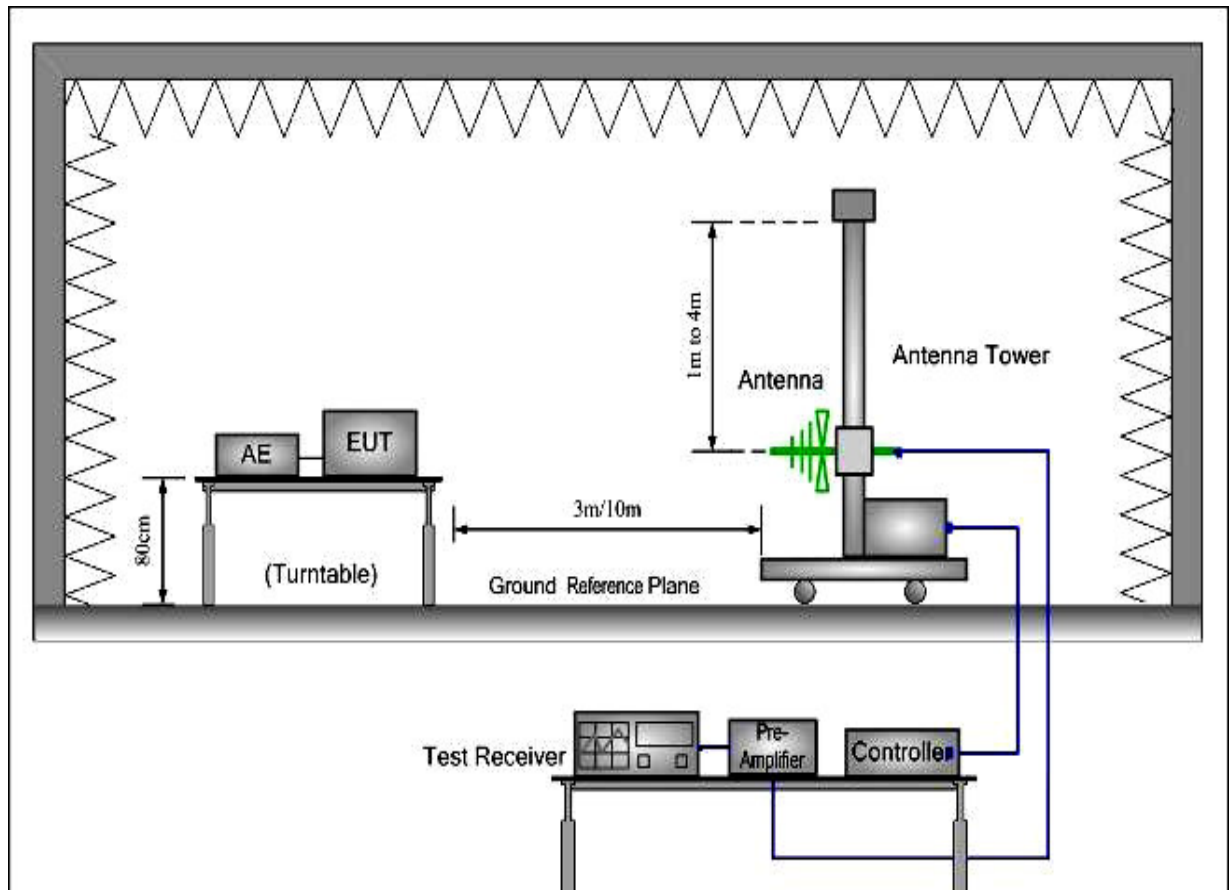
Temperature: 24.0 °C

Humidity: 48 % RH

Atmospheric Pressure: 101 k Pa

EUT Operation: Test the EUT in Aux in, FM, Line in, USB and SD mode.

2.2.2 Test Setup and Procedure



1. The radiated emissions test was conducted in a semi-anechoic chamber.
2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360° , and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

2.2.3 Measurement Data

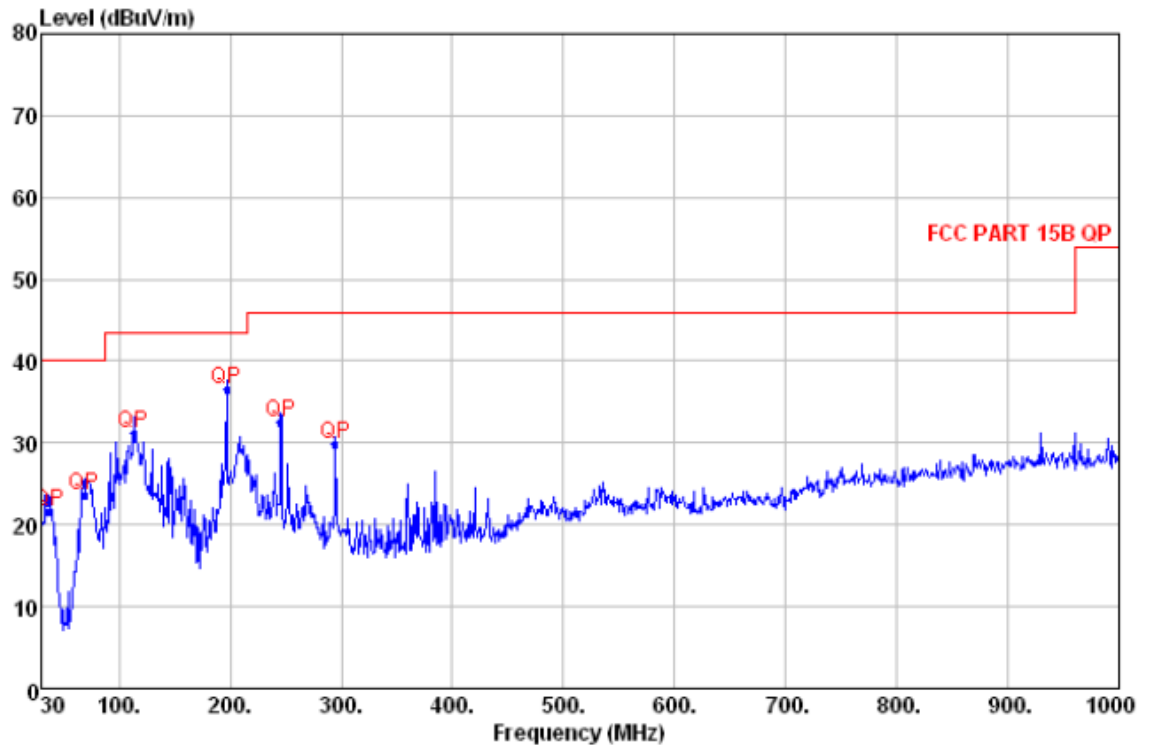
Model: MIB668A

Mode: USB

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

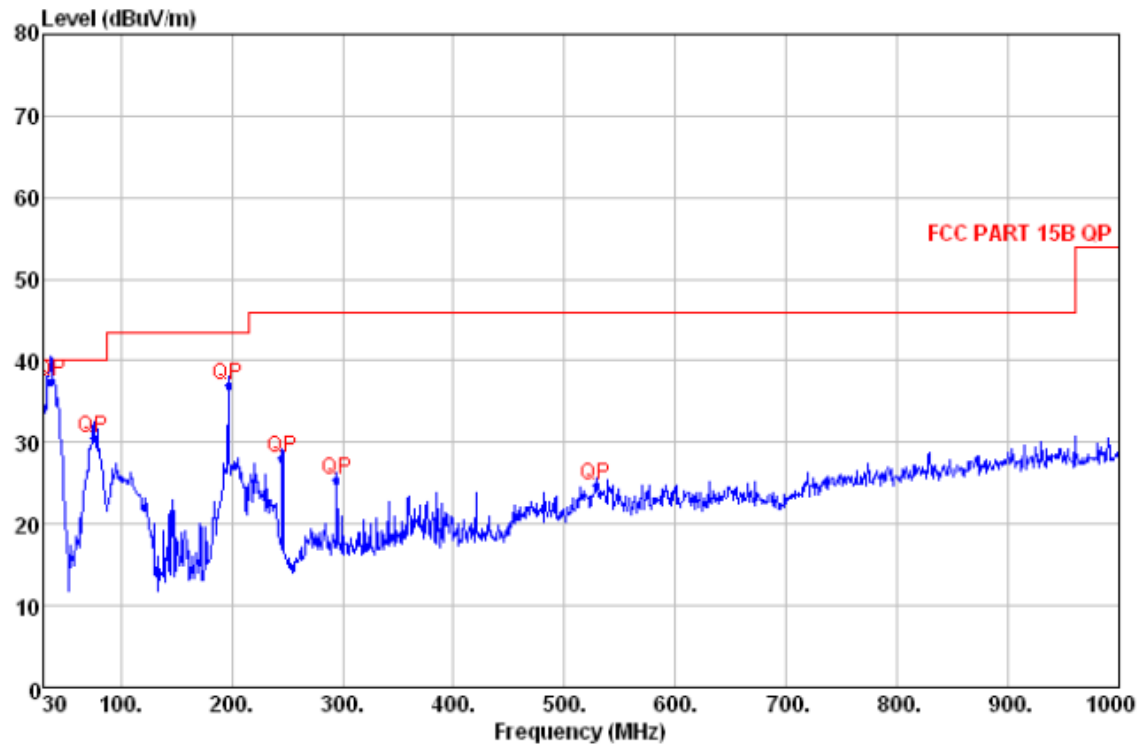
No.	Freq MHz	Level dBμV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBμV/m	Margin dB	A/pos cm	T/pos deg
1	36.790	21.72	QP	13.92	0.69	40.00	-18.28	100	179
2	68.800	23.71	QP	6.98	0.97	40.00	-16.29	100	66
3	113.420	31.29	QP	8.29	1.25	43.50	-12.21	100	358
4	196.840	36.65	QP	8.52	1.69	43.50	-6.85	200	148
5	245.340	32.59	QP	11.24	1.91	46.00	-13.41	200	238
6	294.810	29.80	QP	13.68	2.10	46.00	-16.20	200	32

Level=Read Level + Antenna Factor + Cable Loss

Vertical:

Peak scan

Level (dBuV/m)

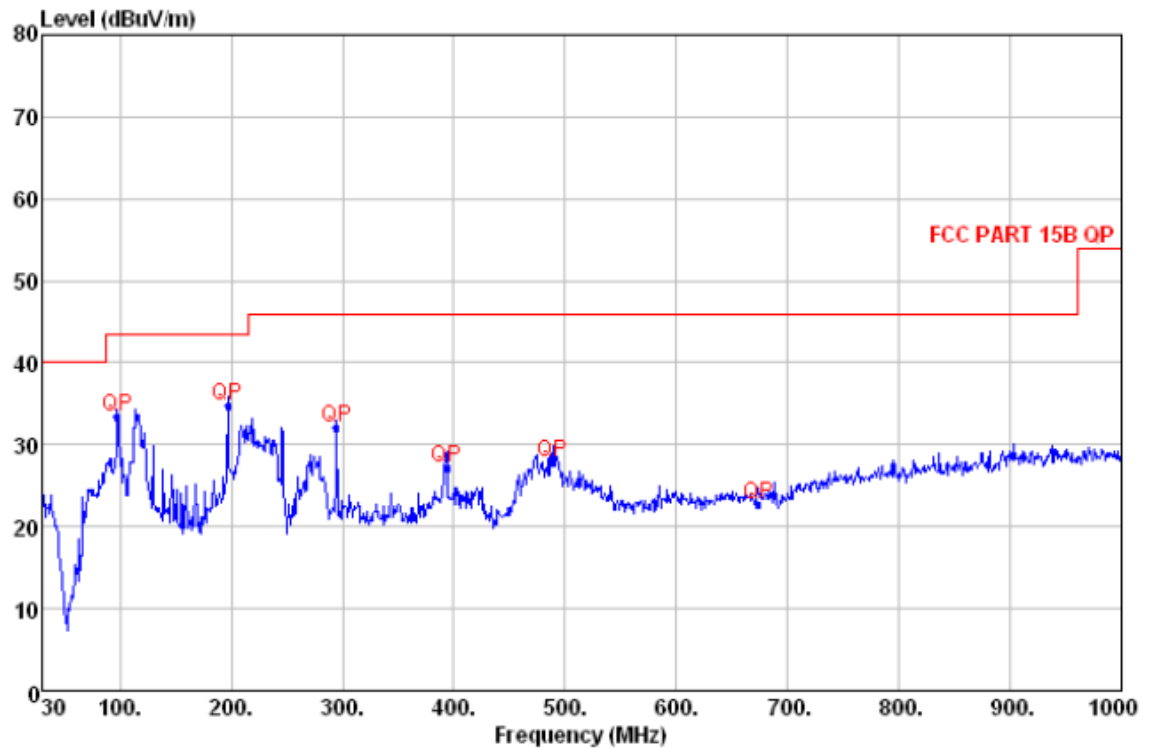


Quasi-peak measurement

No.	Freq MHz	Level dBuV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBuV/m	Margin dB	A/pos cm	T/pos deg
1	36.960	37.41	QP	13.82	0.69	40.00	-2.59	100	109
2	75.590	30.61	QP	7.40	1.02	40.00	-9.39	100	88
3	196.840	37.09	QP	8.52	1.69	43.50	-6.41	100	336
4	245.340	28.09	QP	11.24	1.91	46.00	-17.91	200	227
5	294.810	25.30	QP	13.68	2.10	46.00	-20.70	200	297
6	528.580	24.73	QP	19.49	2.86	46.00	-21.27	200	114

Level=Read Level + Antenna Factor + Cable Loss

Mode: Line in
Horizontal:
Peak scan
Level (dBμV/m)



Quasi-peak measurement

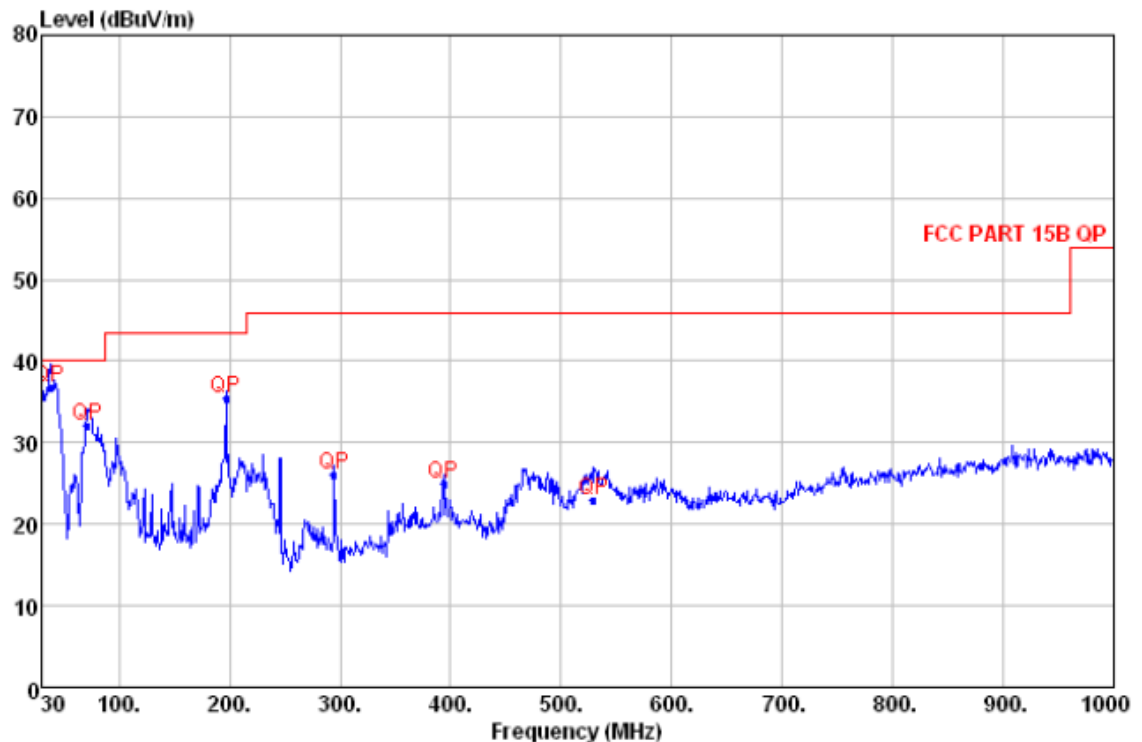
No.	Freq MHz	Level dBμV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBμV/m	Margin dB	A/pos cm	T/pos deg
1	97.900	33.38	QP	8.58	1.16	43.50	-10.12	100	225
2	196.840	34.85	QP	8.52	1.69	43.50	-8.65	100	172
3	294.810	32.05	QP	13.68	2.10	46.00	-13.95	100	67
4	393.750	27.18	QP	15.75	2.43	46.00	-18.82	200	345
5	488.810	27.78	QP	18.26	2.75	46.00	-18.22	200	136
6	674.080	22.73	QP	20.86	3.26	46.00	-23.27	200	304

Level=Read Level + Antenna Factor + Cable Loss

Vertical:

Peak scan

Level (dBuV/m)



Quasi-peak measurement

No.	Freq MHz	Level dBuV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBuV/m	Margin dB	A/pos cm	T/pos deg
1	37.690	36.76	QP	13.38	0.70	40.00	-3.24	100	235
2	71.710	32.15	QP	7.14	0.99	40.00	-7.85	100	164
3	196.840	35.42	QP	8.52	1.69	43.50	-8.08	100	31
4	294.810	26.16	QP	13.68	2.10	46.00	-19.84	200	266
5	393.750	24.99	QP	15.75	2.43	46.00	-21.01	200	354
6	529.550	22.91	QP	19.56	2.86	46.00	-23.09	150	238

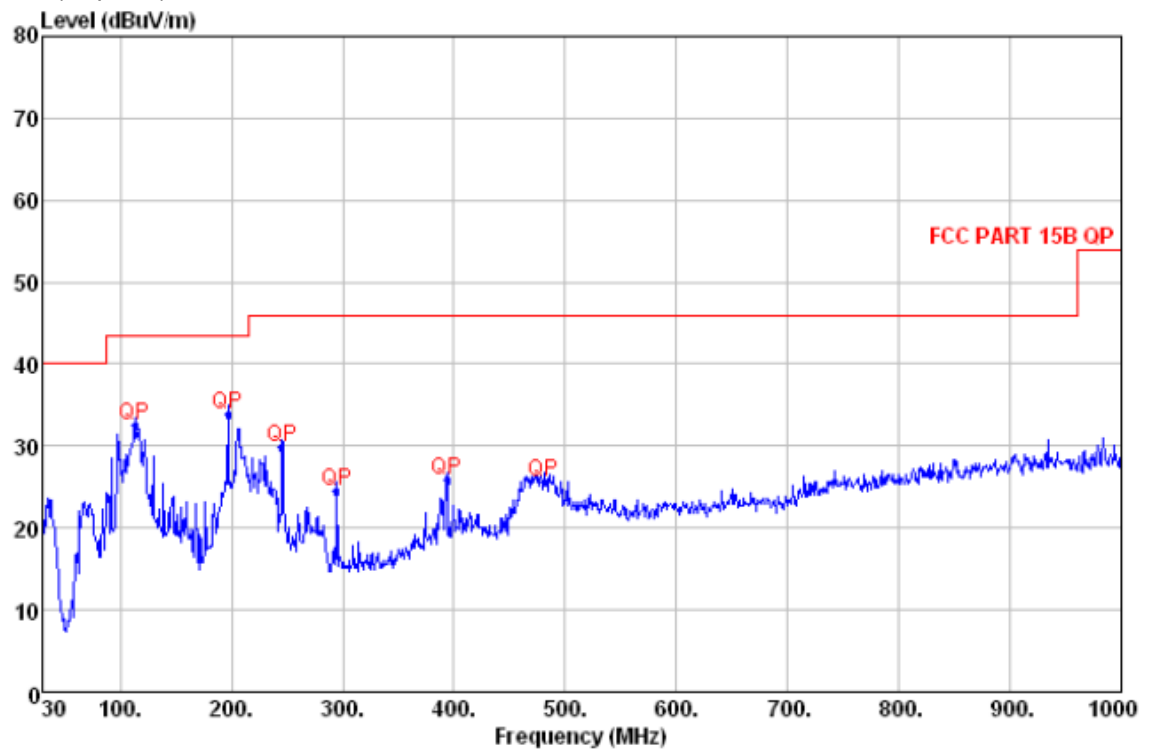
Level=Read Level + Antenna Factor + Cable Loss

Mode: FM

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

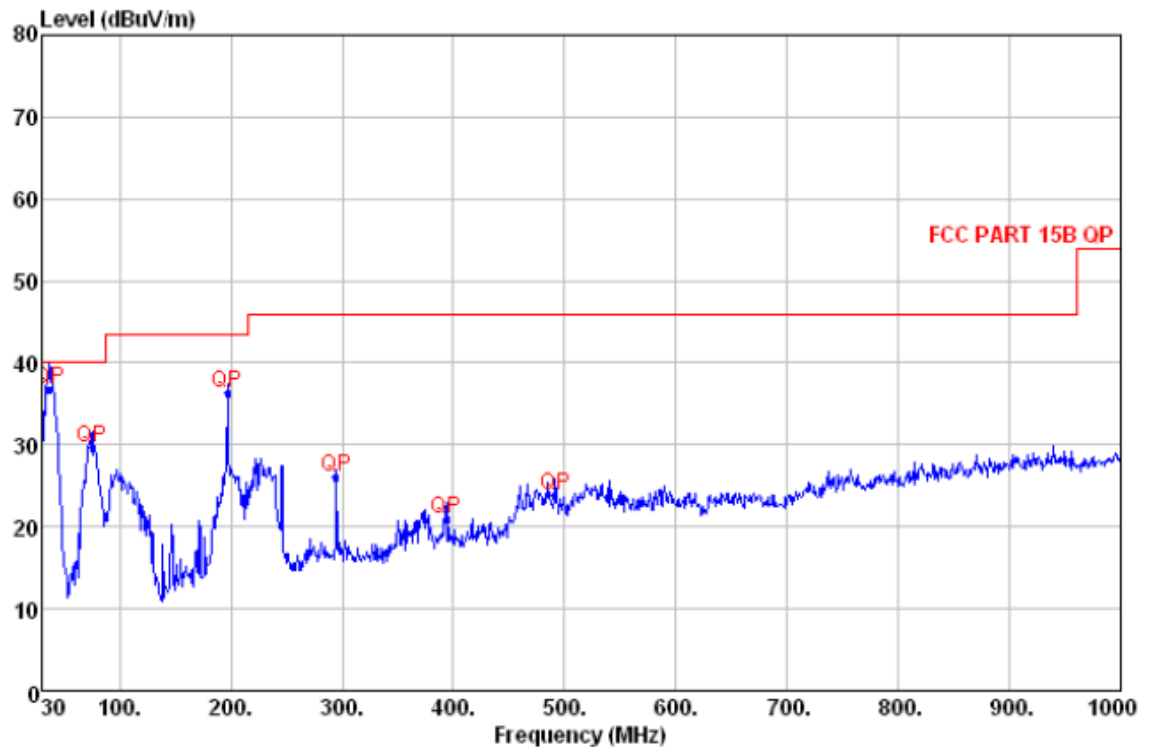
No.	Freq MHz	Level dBμV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBμV/m	Margin dB	A/pos cm	T/pos deg
1	113.420	32.44	QP	8.29	1.25	43.50	-11.06	100	113
2	196.840	33.95	QP	8.52	1.69	43.50	-9.55	100	288
3	245.340	29.75	QP	11.24	1.91	46.00	-16.25	100	155
4	294.810	24.55	QP	13.68	2.10	46.00	-21.45	200	64
5	393.750	25.75	QP	15.75	2.43	46.00	-20.25	200	164
6	481.050	25.68	QP	18.03	2.72	46.00	-20.32	200	301

Level=Read Level + Antenna Factor + Cable Loss

Vertical:

Peak scan

Level (dBuV/m)



Quasi-peak measurement

No.	Freq MHz	Level dBuV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBuV/m	Margin dB	A/pos cm	T/pos deg
1	36.790	36.69	QP	13.92	0.69	40.00	-3.31	100	262
2	75.590	29.69	QP	7.40	1.02	40.00	-10.31	100	192
3	196.840	36.35	QP	8.52	1.69	43.50	-7.15	100	99
4	294.810	26.00	QP	13.68	2.10	46.00	-20.00	200	360
5	393.750	20.99	QP	15.75	2.43	46.00	-25.01	200	138
6	491.720	23.90	QP	18.30	2.75	46.00	-22.10	200	147

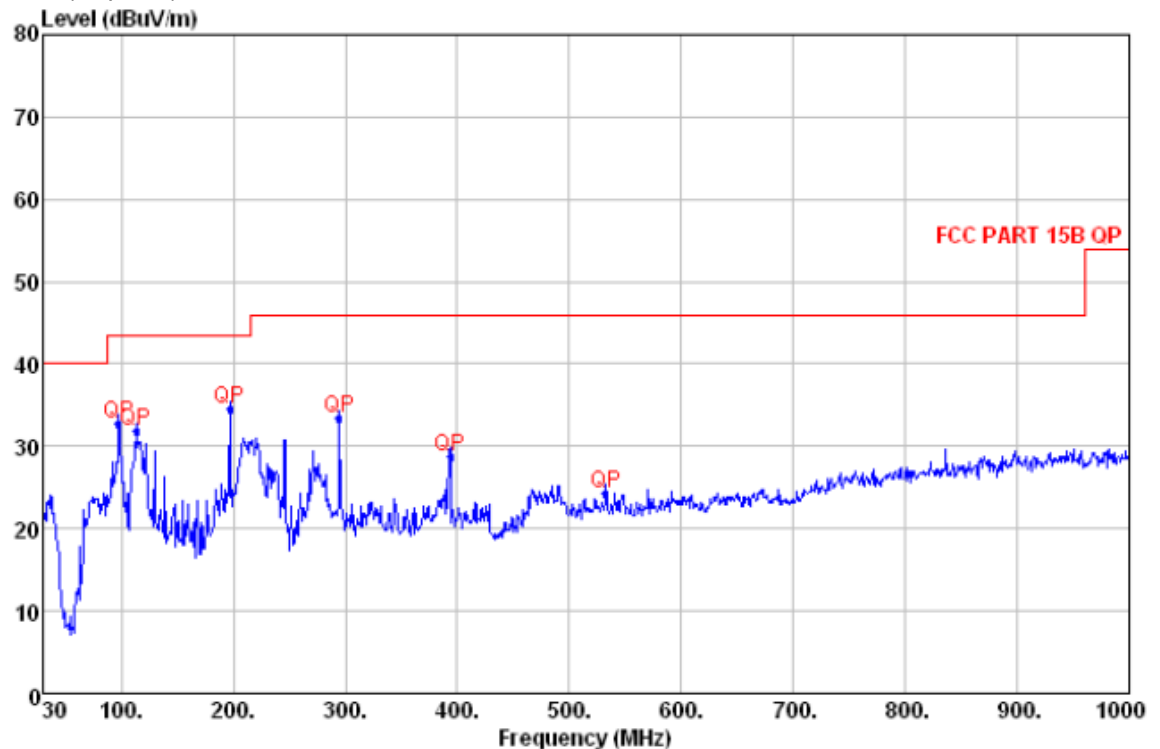
Level=Read Level + Antenna Factor + Cable Loss

Mode: Aux in

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

No.	Freq MHz	Level dBμV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBμV/m	Margin dB	A/pos cm	T/pos deg
1	97.900	32.86	QP	8.58	1.16	43.50	-10.64	100	298
2	113.420	31.83	QP	8.29	1.25	43.50	-11.67	100	266
3	196.840	34.49	QP	8.52	1.69	43.50	-9.01	100	36
4	294.810	33.32	QP	13.68	2.10	46.00	-12.68	200	177
5	393.750	28.85	QP	15.75	2.43	46.00	-17.15	200	64
6	532.460	24.31	QP	19.53	2.87	46.00	-21.69	200	110

Level=Read Level + Antenna Factor + Cable Loss

Vertical:

Peak scan

Level (dBuV/m)



Quasi-peak measurement

No.	Freq MHz	Level dBuV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBuV/m	Margin dB	A/pos cm	T/pos deg
1	36.790	37.19	QP	13.92	0.69	40.00	-2.81	100	235
2	73.650	30.86	QP	7.29	1.00	40.00	-9.14	100	197
3	196.840	34.50	QP	8.52	1.69	43.50	-9.00	100	223
4	294.810	20.30	QP	13.68	2.10	46.00	-25.70	200	336
5	393.750	21.47	QP	15.75	2.43	46.00	-24.53	200	88
6	523.730	25.56	QP	19.10	2.84	46.00	-20.44	200	132

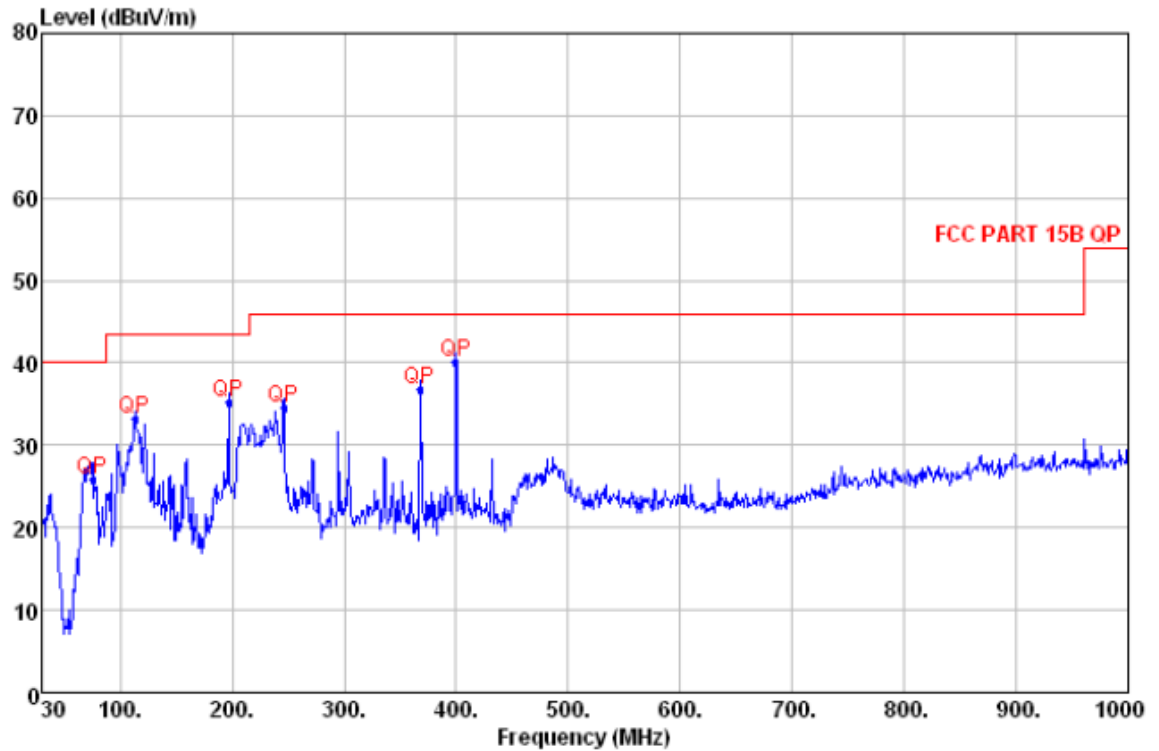
Level=Read Level + Antenna Factor + Cable Loss

Mode: SD

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

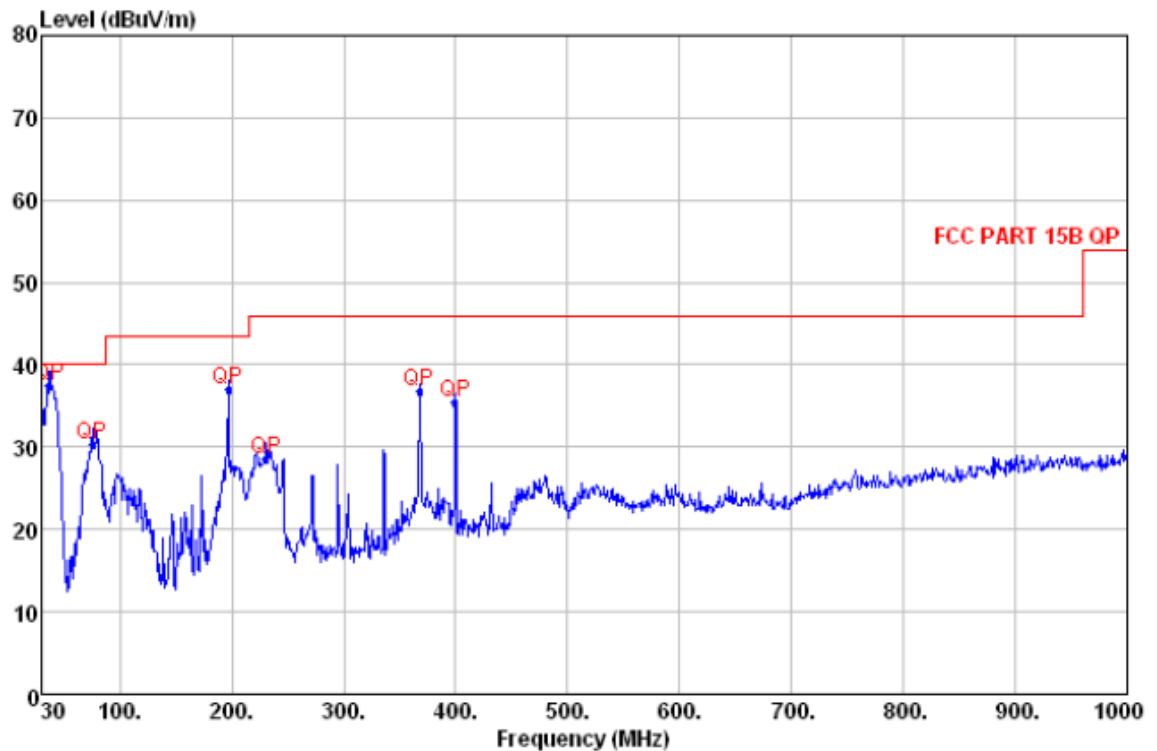
No.	Freq MHz	Level dBμV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBμV/m	Margin dB	A/pos cm	T/pos deg
1	75.590	25.95	QP	7.40	1.02	40.00	-14.05	100	261
2	113.420	33.11	QP	8.29	1.25	43.50	-10.39	100	345
3	196.840	35.27	QP	8.52	1.69	43.50	-8.23	100	223
4	246.310	34.56	QP	11.36	1.91	46.00	-11.44	200	97
5	367.560	36.81	QP	14.78	2.33	46.00	-9.19	200	118
6	399.570	40.12	QP	15.98	2.45	46.00	-5.88	200	163

Level=Read Level + Antenna Factor + Cable Loss

Vertical:

Peak scan

Level (dBuV/m)



Quasi-peak measurement

No.	Freq MHz	Level dBuV/m	Remark	Antenna Factor dB/m	Cable Loss dB	Limit Line dBuV/m	Margin dB	A/pos cm	I/pos deg
1	36.790	37.49	QP	13.92	0.69	40.00	-2.51	100	360
2	75.590	30.40	QP	7.40	1.02	40.00	-9.60	100	348
3	196.840	37.05	QP	8.52	1.69	43.50	-6.45	100	156
4	230.790	28.52	QP	11.15	1.84	46.00	-17.48	200	230
5	367.560	36.75	QP	14.78	2.33	46.00	-9.25	200	137
6	399.570	35.52	QP	15.98	2.45	46.00	-10.48	200	261

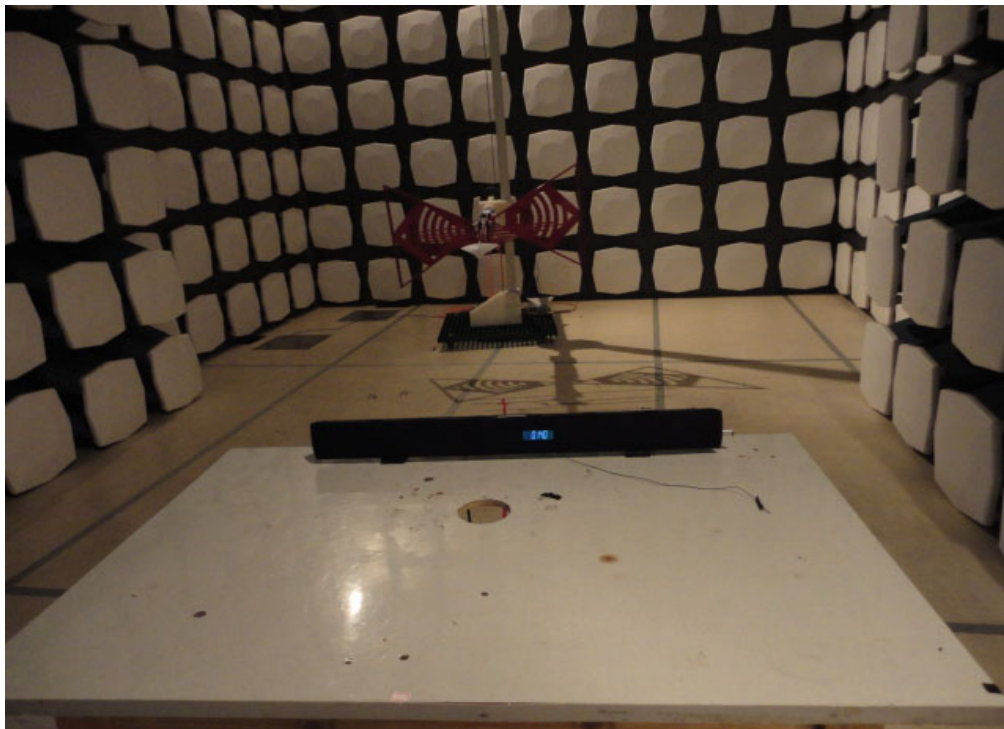
Level=Read Level + Antenna Factor + Cable Loss

Section 3 Photographs

3.1 Conducted Emissions Mains Terminals Test Setup



3.2 Radiated Emissions, 30MHz to 1GHz Test Setup



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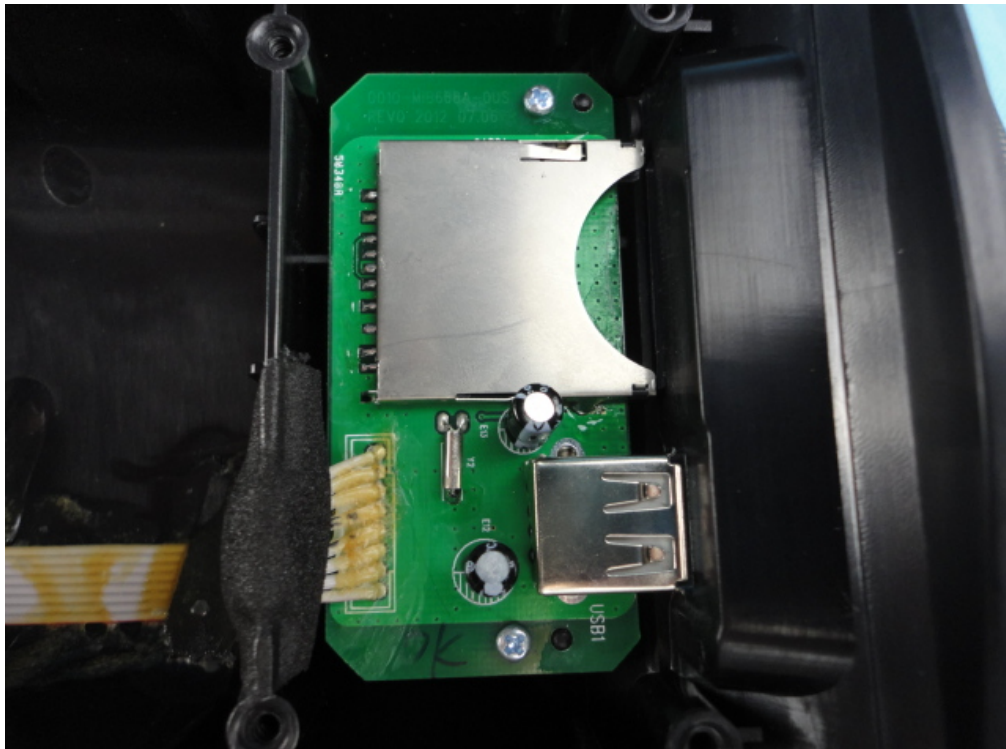
3.3 EUT Constructional Details

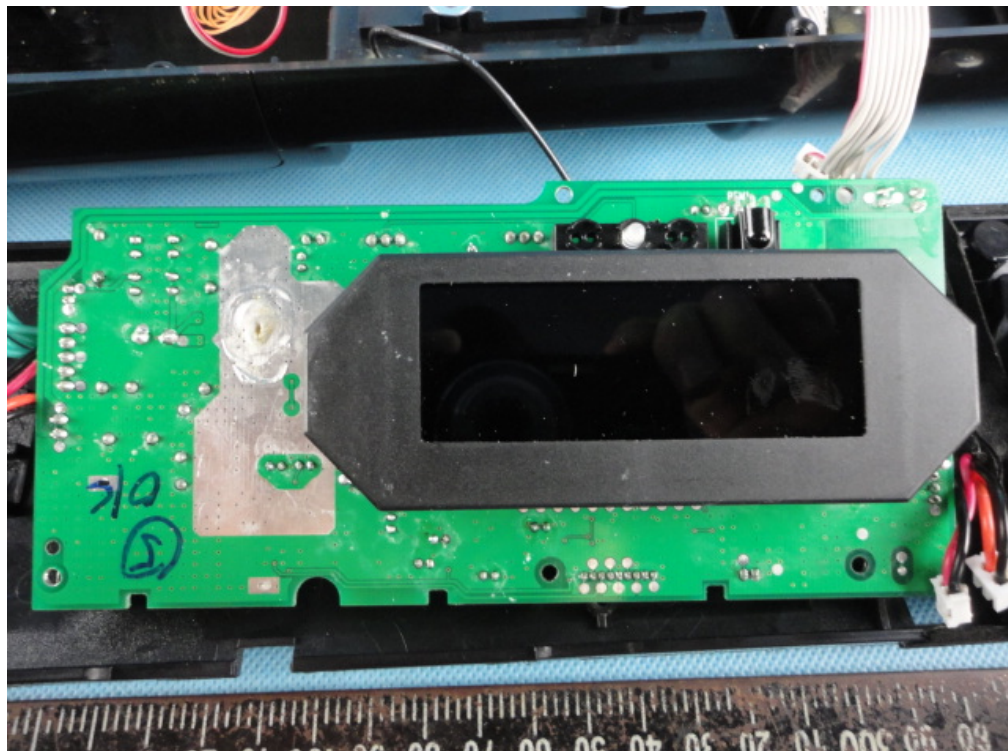
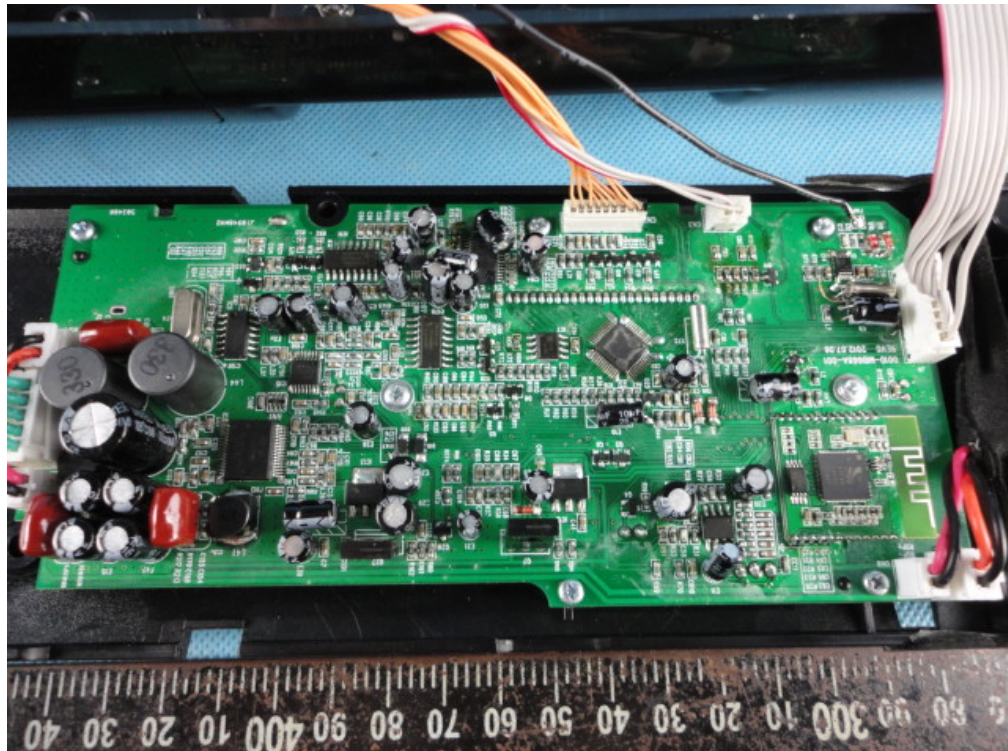


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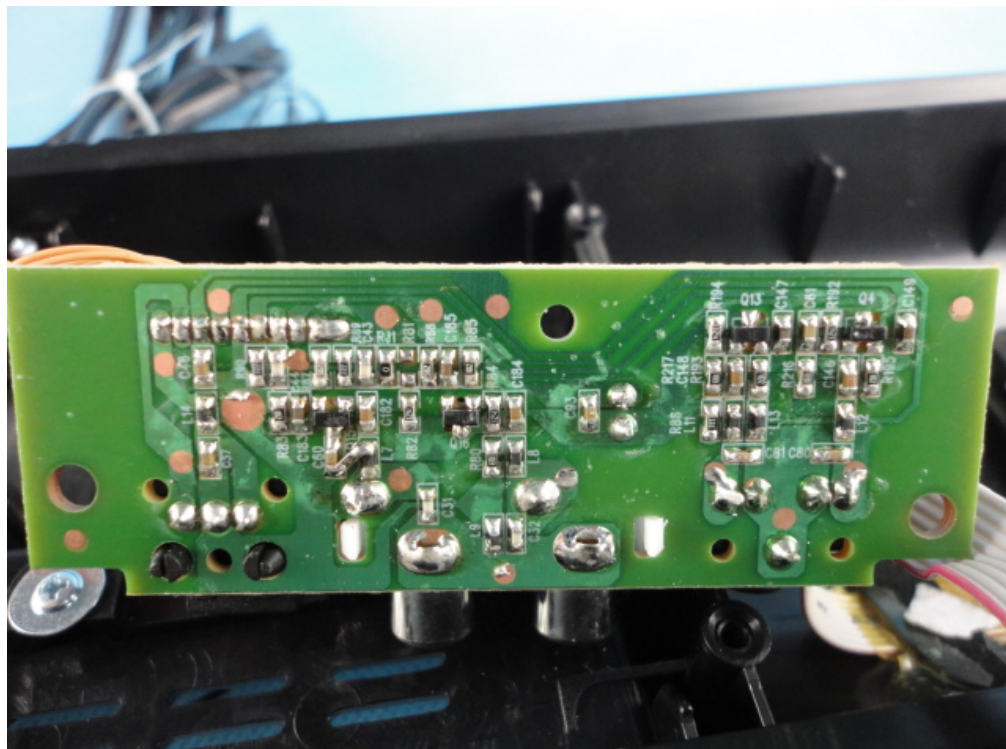
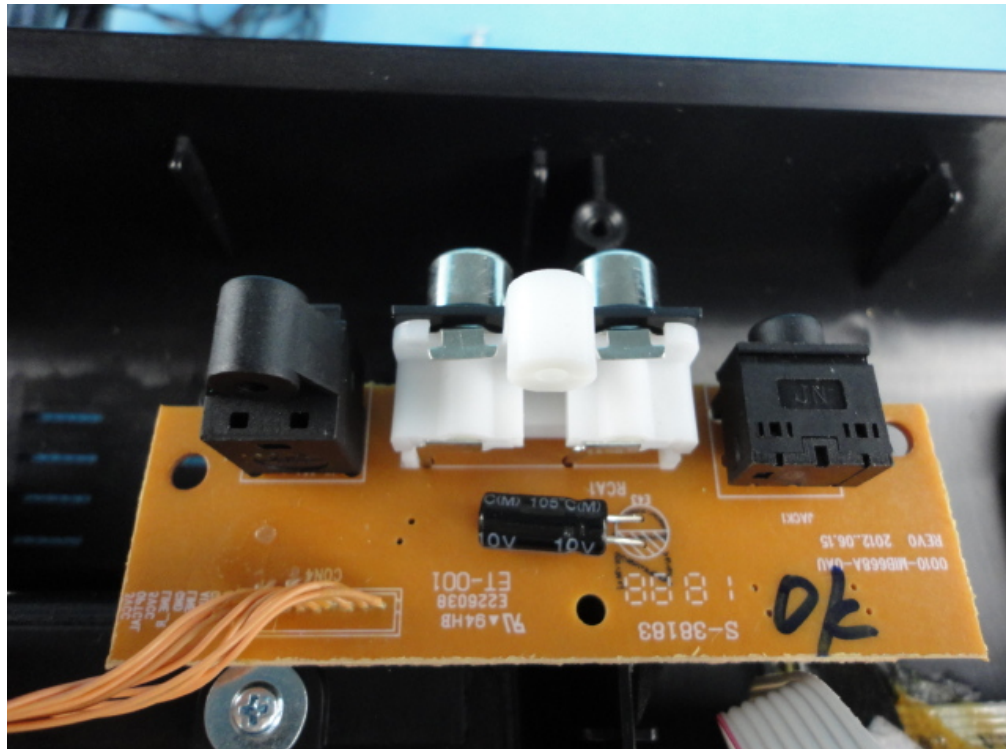


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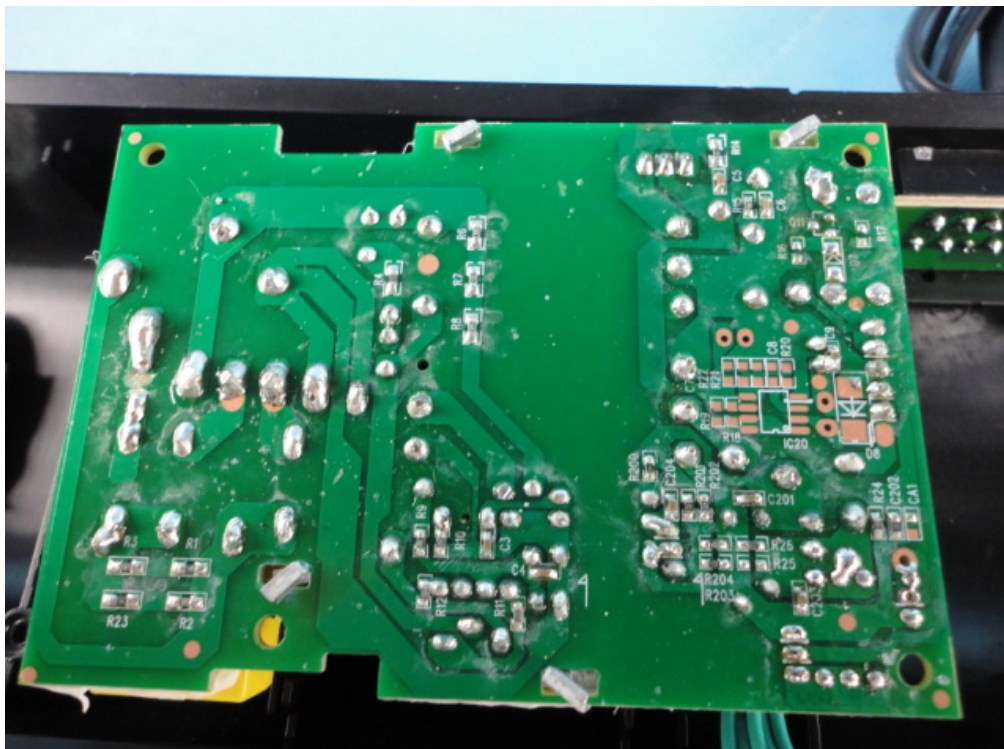




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END OF THE TEST REPORT

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