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Report No.: GLEMO080601973HST
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FCC ID:TAPMC-JSH15A

Test Report

Application No.: GLEMO080601973HS
Applicant: Guangdong MD Consumer Electric Manufacturing CO., Ltd
FCC ID: TAPMC-JSH15A
Equipment Under Test (EUT):
EUT Name: Induction Cooker
Item No.: MC-JSH15A
Trade mark: Midea
Serial No.: Not supplied by client
Standards: FCC PART 18: 2004
Date of Receipt: 25 June 2008
Date of Test: 04 to 07 July 2008
Date of Issue: 09 July 2008

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

Authorized Signature:



2008-July

Stephen Guo
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.

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

The customer requested EMC tests for an Induction cooker.

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (9KHz to 30MHz)	FCC PART 18: 2004	FCC OST/ MP-5:1986	18.305	PASS
Conducted Emission (9KHz to 30MHz)	FCC PART 18: 2004	FCC OST/ MP-5:1986	18.307(a)	PASS



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4 General Information

4.1 Client Information

Applicant: Guangdong MD Consumer Electric Manufacturing CO., Ltd
Address of Applicant: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong, P.R. China.

4.2 General Description of E.U.T.

EUT Name: Induction cooker
Item No.: MC-JSH15A
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: 120V AC 60Hz
Power Cord: 1.8m x 2 wires unscreened AC cable

4.4 Description of Support Units

The EUT has been tested with a pan filled with water. The pan was provided by the SGS.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 8207 5059

No tests were sub-contracted.



4.6 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorized test laboratory for the DoC process.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate 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.: 4620B-1.

Date of Registration: Jan 15, 2007. Valid until Jan 15, 2009

- **VCCI (Registration No.: R-2460 and C-2584)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rules of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.

This certificate was issued Dec.04.2006 and valid until Oct.12.2009.



4.7 Deviation from Standards

For Radiated Emission, test at 10m distance instead of 30m distance.

4.8 Abnormalities from Standard Conditions

None.



5 Equipments Used during Test

Conducted Emission						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	N/A	N/A
EMC0102	LISN	Schaffner Chase	MNZ050D/1	1421	14-12-2007	14-12-2008
EMC0118	Two-line v-netwok	Rohde & Schwarz	ENV216	3560.6550.02	16-08--2007	16-08--2008
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	14-12-2007	14-12-2008
EMC0107	Coaxial Cable	SGS	2m	N/A	24-11-2007	26-11-2008
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	N/A
EMC0120	8 Line LISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	21-02-2008	21-02-2009
EMC0121	4 Line LISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	21-02-2008	21-02-2009
EMC0122	2 Line LISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	21-02-2008	21-02-2009

RE in Chamber						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	N/A	N/A
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	28-01-2008	28-01-2009
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2007	04-12-2008
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	12-08-2007	12-08-2008
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	12-08-2007	12-08-2008
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	12-08-2007	12-08-2008
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2007	05-12-2008
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	11-03-2008	11-03-2009
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	11-03-2008	11-03-2009
EMC0075	310N Amplifier	Sonama	310N	272683	10-09-2007	10-09-2008
EMC0523	Active Loop Antenna	EMCO	6502	00042963	09-08-2006	09-08-2008
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	10-08-2007	10-08-2008



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General used equipment						
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0006	DMM	Fluke	73	70681569	27-09-2007	27-09-2008
EMC0007	DMM	Fluke	73	70671122	27-09-2007	27-09-2008

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6 Test Results

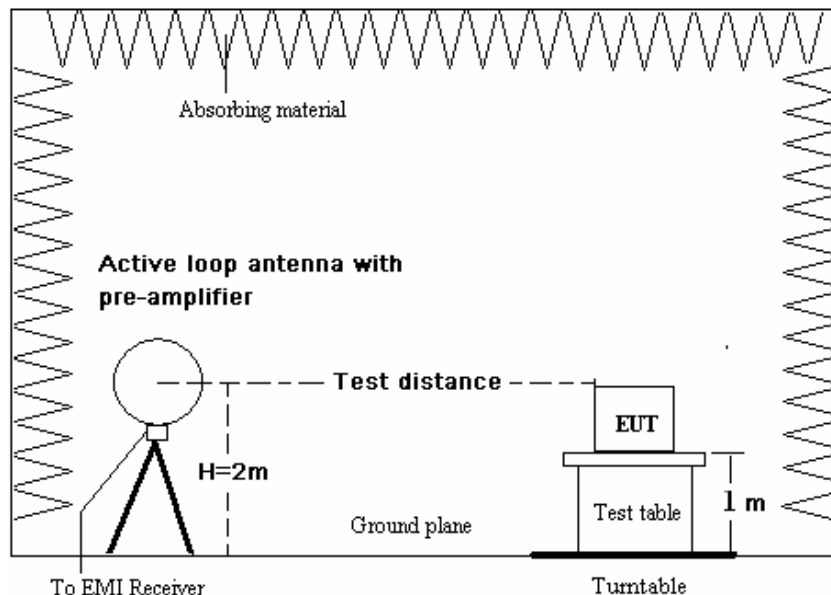
6.1 Radiated Emission, 9kHz to 30MHz

Test Requirement: FCC Part18
Test Method: FCC OST/ MP-5
Test Date: 07 July 2008
Frequency Range: 9KHz to 30MHz
Limit: 18.305
Measurement distance: 10m
Detector: Peak for pre-scan, Average for the final result
(200Hz Resolution Bandwidth for 9KHz to 150KHz, 9kHz Resolution Bandwidth for 150KHz to 30MHz)

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.0 °C Humidity: 54 % RH Atmospheric Pressure: 1007 Mbar
EUT Operation: Test the EUT in heating mode with max power.

6.1.2 Test Setup



6.1.3 Measurement Data

An initial pre-scan was performed in the 10m chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.

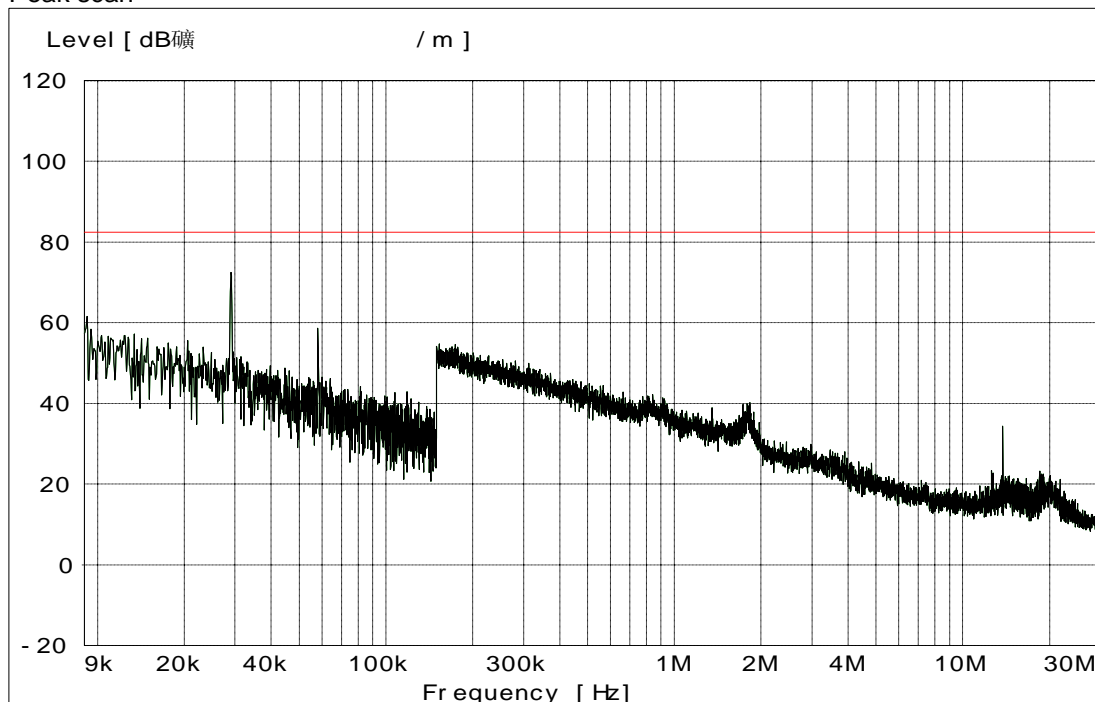
The following average measurements were performed on the EUT on 07 July 2008:

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Vertical:

Peak scan

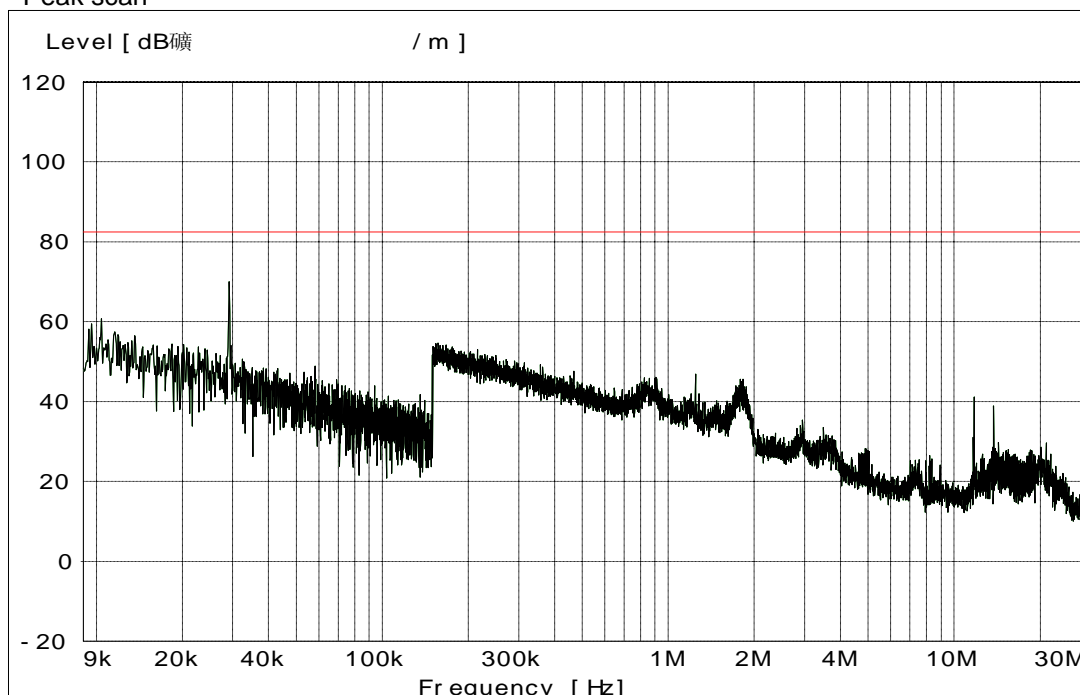


Average measurement

Frequency	Transducer	Receiver AV Reading	AV Level	Limit	Margin
(MHz)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dB)
0.028	14.3	64.3	78.6	82.5	3.9
0.056	12.4	57.4	69.8	82.5	12.7
0.074	12.1	53.2	65.3	82.5	17.2
0.085	11.9	52.3	64.2	82.5	18.3
0.158	12.1	55.0	67.1	82.5	15.4
1.734	12.2	41.3	53.5	82.5	29.0

Horizontal:

Peak scan



Average measurement

Frequency (MHz)	Transducer (dB)	Receiver AV Reading (dBμV/m)	AV Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.028	41.3	34.1	75.4	82.5	7.1
0.034	12.7	56.6	69.3	82.5	13.2
0.051	12.3	53.0	65.3	82.5	17.2
0.154	12.1	57.7	69.8	82.5	12.7
0.170	12.0	55.4	67.4	82.5	15.1
1.467	12.3	48.4	60.7	82.5	21.8

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp gain.

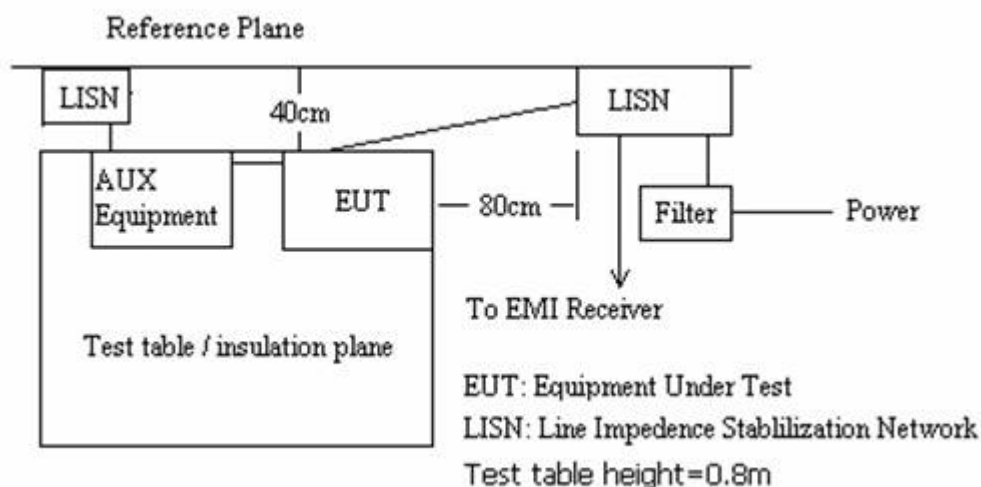
6.2 Conducted Emissions, 9KHz to 30MHz

Test Requirement: FCC Part18
Test Method: FCC OST/ MP-5
Test Date: 04 July 2008
Frequency Range: 9KHz to 30MHz
Class: 18.307(a)
Detector: Peak for pre-scan, Quasi-Peak and Average for the final result.
(200Hz Resolution Bandwidth for 9KHz to 150KHz, 9kHz Resolution Bandwidth for 150KHz to 30MHz)

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21.0 °C Humidity: 54 % RH Atmospheric Pressure: 1013 mbar
EUT Operation: Test the EUT in heating mode with max power.

6.2.2 Plan View of Test Setup



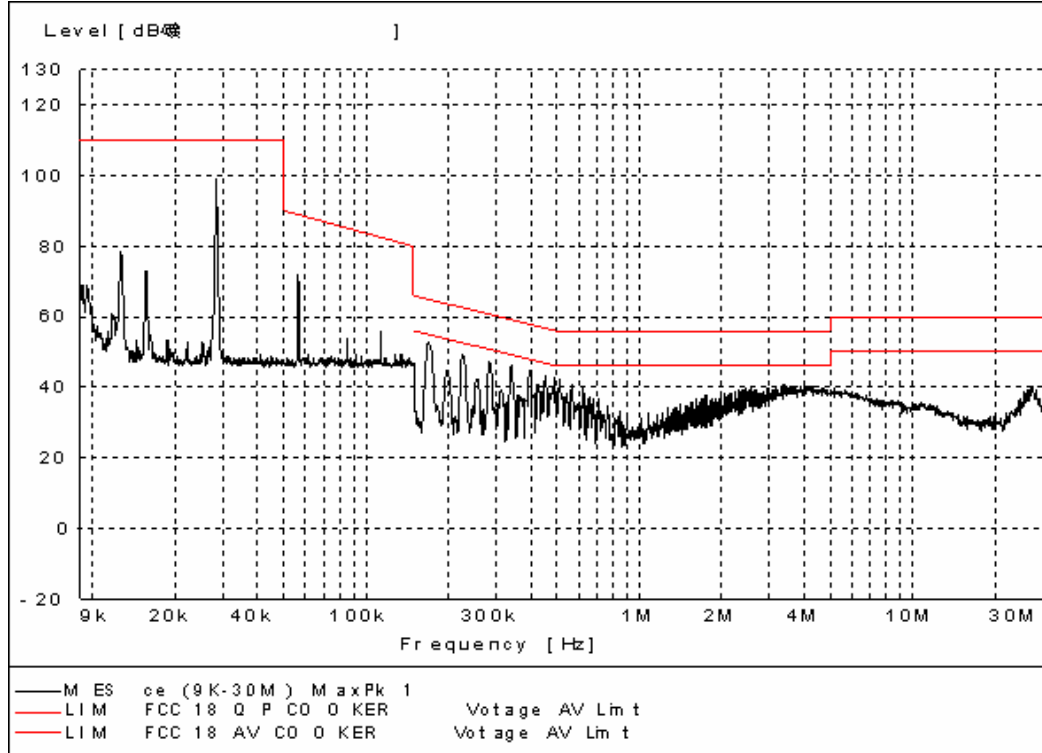
6.2.3 Measurement Data

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.
The following quasi-peak and average measurements were performed on the EUT on 04 July 2008:



Live line:

Peak Scan



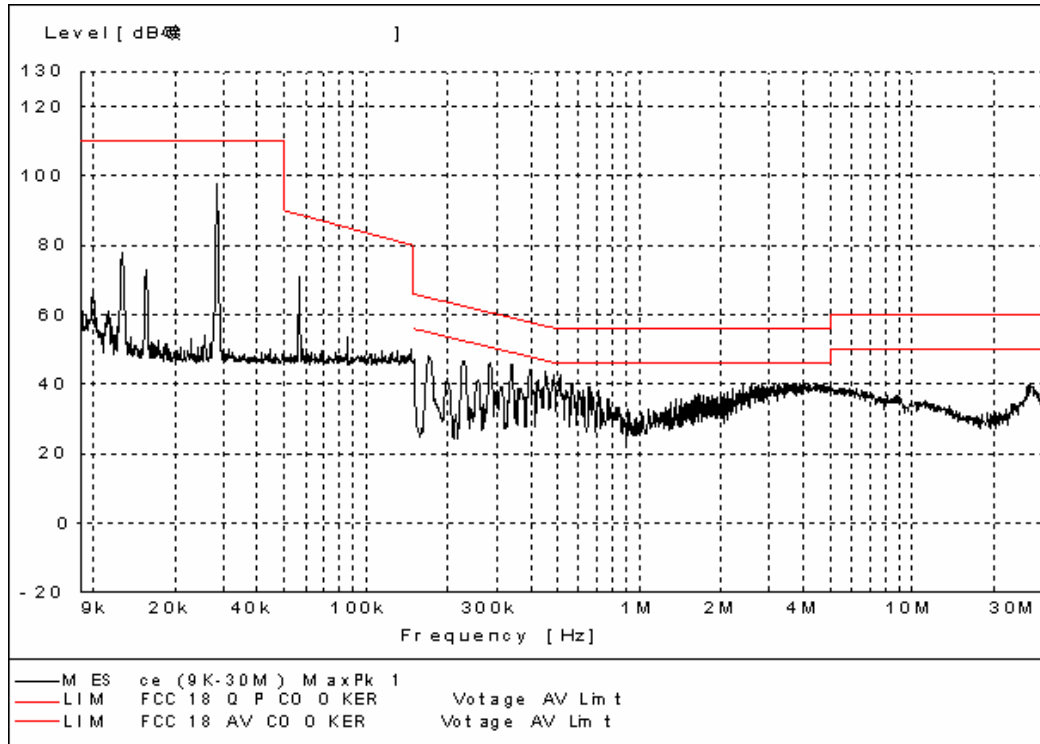
Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Margin (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Margin (dB)
0.028	9.6	79.7	89.3	110.0	20.7	*	*	*	*
0.169	9.8	41.8	51.6	65.0	13.4	38.1	47.9	55.0	7.1
0.226	9.6	39.6	49.2	62.6	13.4	35.1	44.7	52.6	7.9
3.985	9.6	27.6	37.2	56.0	18.8	19.5	29.1	46.0	16.9
4.100	9.8	27.1	36.9	56.0	19.1	19.1	28.9	46.0	17.1
4.250	9.8	24.8	34.6	56.0	21.4	13.3	23.1	46.0	22.9



Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Margin (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Margin (dB)
0.029	9.6	87.0	96.6	110.0	13.4	*	*	*	*
0.341	9.8	35.4	45.2	59.1	13.9	31.6	41.4	49.1	7.7
0.455	9.6	32.7	42.3	56.8	14.5	27.9	37.5	46.8	9.3
3.859	9.6	26.7	36.3	56.0	19.7	19.6	29.2	46.0	16.8
4.100	9.8	26.1	35.9	56.0	20.1	16.1	25.9	46.0	20.1
4.250	9.8	25.1	34.9	56.0	21.1	15.0	24.8	46.0	21.2