



SGS-CSTC Standards Technical Services Co., Ltd.

198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological
Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555

Fax: +86 (0) 20 82075059

Email: sgs_internet_operations@sgs.com

FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GLEMO09050133101

Page: 1 of 42

FCC ID:TAPMC-SKW1501

Test Report

Application No.: GLEMO090501331HS

Applicant: Guangdong MD Consumer Electric Manufacturing CO., Ltd.

FCC ID: TAPMC-KW1501

Equipment Under Test (EUT):

EUT Name: Induction cooker

Item No.: MC-ESH15K, MC-ESH15L, MC-ESH13K, MC-ESH13L, MC-SKW1501,
MC-SKW1301, MC-JEK15A, MC-JEK13A ♣

♣

Please refer to section 2 of this report for further details.

Trade mark: midea

Serial No.: Not supplied by client

Standards: FCC PART 18:2004

Date of Receipt: 18 May 2009

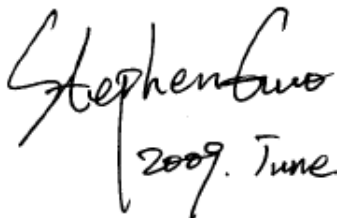
Date of Test: 31 May 2009

Date of Issue: 08 June 2009

Test Result :	PASS*
----------------------	--------------

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

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.


2009. June

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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

Page: 2 of 42

FCC ID:TAPMC-SKW1501

2 Test Summary

The customer requested FCC 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(b)	PASS
Conducted Emission (9KHz to 30MHz)	FCC PART 18:2004	FCC OST/ MP-5:1986	18.307(a)	PASS

♣ All modes are tested in this report.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

Page: 3 of 42

FCC ID:TAPMC-SKW1501

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 DETAILS OF E.U.T.	4
4.4 DESCRIPTION OF SUPPORT UNITS	4
4.5 STANDARDS APPLICABLE FOR TESTING	4
4.6 TEST LOCATION	4
4.7 TEST FACILITY	5
4.8 DEVIATION FROM STANDARDS	6
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENTS USED DURING TEST	7
6 TEST RESULTS	9
6.1 RADIATED EMISSION, 9 KHZ TO 30 MHZ	9
6.1.1 E.U.T. Operation	9
6.1.2 Test Setup	9
6.1.3 Measurement Data	10
6.2 CONDUCTED EMISSIONS, 9 KHZ TO 30 MHZ	26
6.2.1 E.U.T. Operation	26
6.2.2 Plan View of Test Setup	26
6.2.3 Measurement Data	26-42



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

4.2 General Description of E.U.T.

EUT Name: Induction cooker

Item No.: MC-ESH15K, MC-ESH15L, MC-ESH13K, MC-ESH13L, MC-SKW1501,
MC-SKW1301, MC-JEK15A, MC-JEK13A

Trade mark: midea

Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: 110-120V AC 60Hz

Power Cord: 0.8m x 2 wires unscreened AC mains cable

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The standard used was FCC PART 18 (2004).

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



4.7 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.

- **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 of Industry Canada for radio equipment testing with Registration No. 4620B-1.

Date of Registration: February 18, 2009. Valid until February 18, 2011.

- **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.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

Page: 6 of 42

FCC ID:TAPMC-SKW1501

4.8 Deviation from Standards

For Radiated Emission, test at 10m distance instead of 30m distance. 19.1dB was plus to the limit of 30m measurement limit. More details refer to FCC part 15.31(f)(2).

4.9 Abnormalities from Standard Conditions

None.

**SGS-CSTC Standards Technical Services Co., Ltd.**

Report No.: GLEMO09050133101

Page: 7 of 42

FCC ID:TAPMC-SKW1501

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	14-12-2008	14-12-2009
EMC0118	Two-line v-netwok	Rohde & Schwarz	ENV216	3560.6550.02	28-07-2008	28-07-2009
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	14-12-2008	14-12-2009
EMC0107	Coaxial Cable	SGS	2m	N/A	26-11-2008	26-11-2009
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	N/A
EMC0120	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	21-02-2009	21-02-2010
EMC0121	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	21-02-2009	21-02-2010
EMC0122	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	21-02-2009	21-02-2010

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	28-01-2009	28-01-2010
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	14-07-2008	14-07-2009
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2008	04-12-2009
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	08-10-2008	08-10-2009
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	08-10-2008	08-10-2009
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	12-08-2008	12-08-2009
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2008	05-12-2009
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	11-03-2009	11-03-2010
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	11-03-2009	11-03-2010
EMC0075	310N Amplifier	Sonama	310N	272683	10-09-2008	10-09-2009
EMC0523	Active Loop Antenna	EMCO	6502	00042963	09-08-2008	09-08-2010
EMC0530	10m Semi-Anechoic Chamber	ETS	N/A	N/A	10-08-2008	10-08-2009



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

Page: 8 of 42

FCC ID:TAPMC-SKW1501

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	23-12-2008	23-12-2009
EMC0007	DMM	Fluke	73	70671122	23-12-2008	23-12-2009

6 Test Results

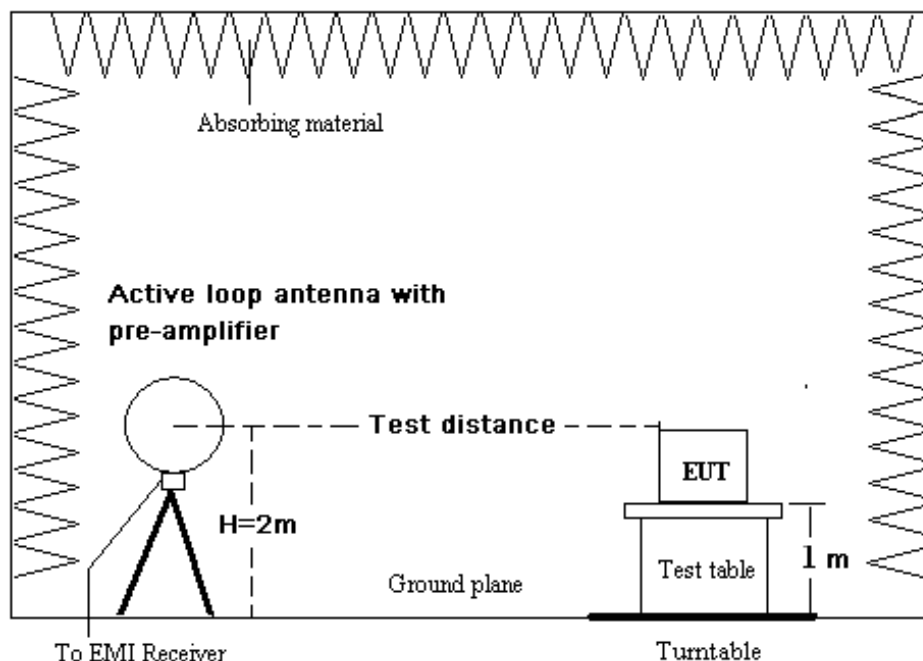
6.1 Radiated Emission, 9 kHz to 30 MHz

Test Requirement: FCC Part18
 Test Method: FCC OST/ MP-5
 Test Date: 31 May 2009
 Frequency Range: 9 KHz to 30 MHz
 Limit: 18.305(b)
 Measurement distance: 10 m
 Detector: Peak for pre-scan, Average for the final result
 (200 Hz Resolution Bandwidth for 9 kHz to 150 kHz, 9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)

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 with 0.6m loop antenna.

6.1.2 Test Setup





6.1.3 Measurement Data

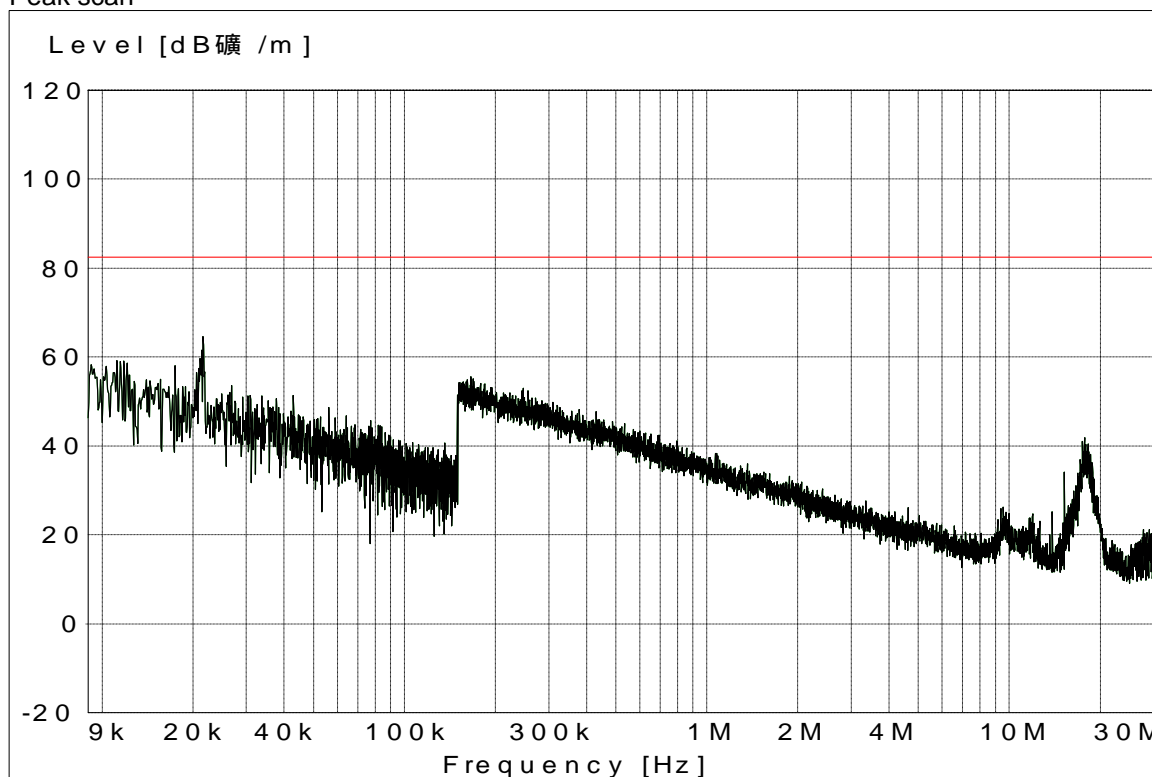
An initial pre-scan was performed in the 10m chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.

The following average measurements were performed on the EUT on 31 May 2009:

Model: MC-JEK15A

Antenna plane vertical (towards the DUT):

Peak scan

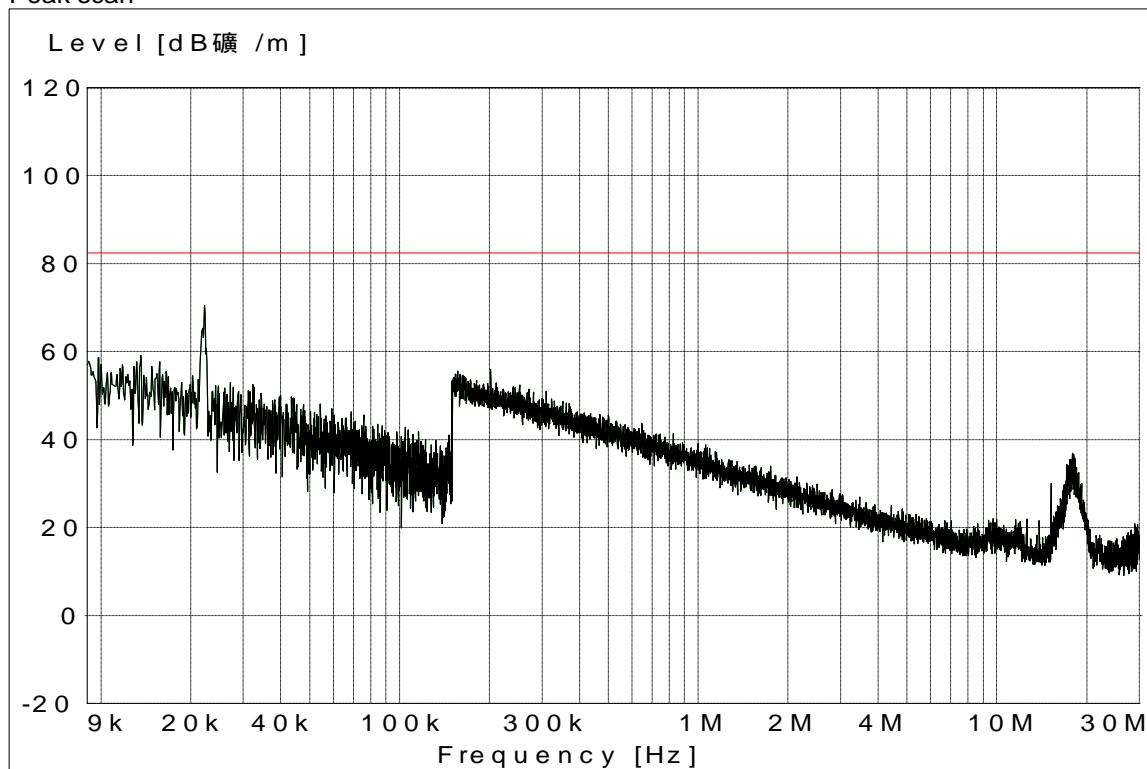


Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	96.8	57.31	82.6	-25.3
0.28	-38.40	100.8	62.37	82.6	-20.2
0.63	-37.60	77.7	40.13	82.6	-42.5
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	62.4	21.11	82.6	-61.5
26.88	-39.60	65.0	25.41	82.6	-57.2

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	99.0	59.41	82.6	-23.2
0.28	-36.20	110.3	74.12	82.6	-8.5
0.63	-39.70	81.8	42.10	82.6	-40.5
1.70	-41.20	74.8	33.61	82.6	-49.0
13.74	-40.80	61.8	21.03	82.6	-61.6
26.88	-40.20	62.3	22.13	82.6	-60.5

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

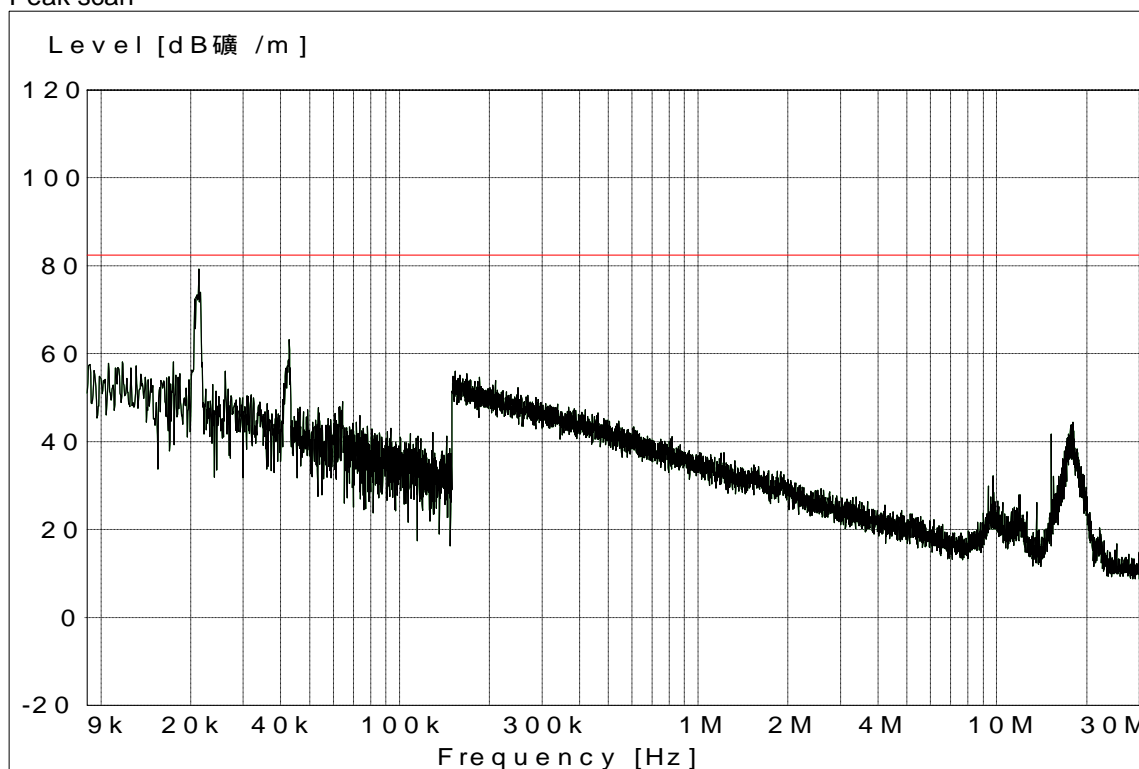
Page: 12 of 42

FCC ID:TAPMC-SKW1501

Model: MC-SKW1501

Antenna plane vertical (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	95.8	56.32	82.6	-26.3
0.28	-38.40	118.0	79.64	82.6	-3.0
0.63	-37.60	79.9	42.31	82.6	-40.3
1.70	-40.20	75.6	35.43	82.6	-47.2
13.59	-41.30	62.4	21.13	82.6	-61.5
26.88	-39.60	78.3	38.71	82.6	-43.9



SGS-CSTC Standards Technical Services Co., Ltd.

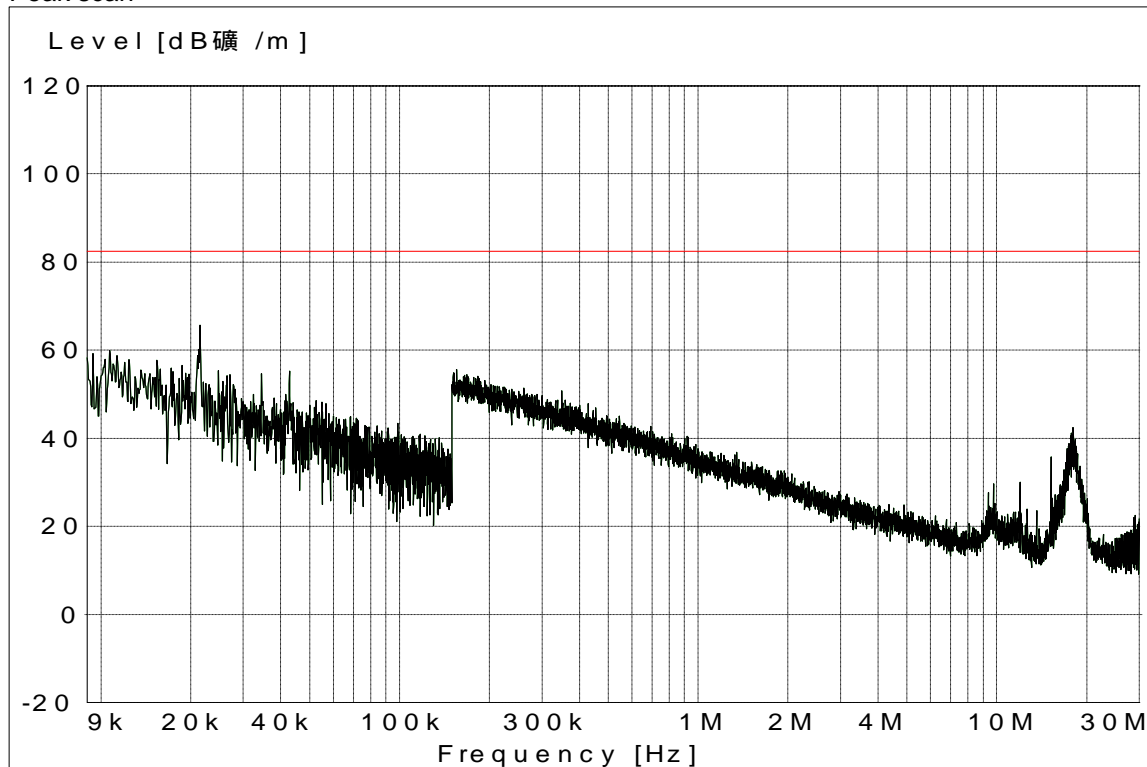
Report No.: GLEMO09050133101

Page: 13 of 42

FCC ID:TAPMC-SKW1501

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	99.1	59.45	82.6	-23.2
0.28	-36.20	101.5	65.31	82.6	-17.3
0.63	-39.70	80.0	40.31	82.6	-42.3
1.70	-41.20	78.6	37.42	82.6	-45.2
13.74	-40.80	63.2	22.41	82.6	-60.2
26.88	-40.20	75.9	35.66	82.6	-46.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

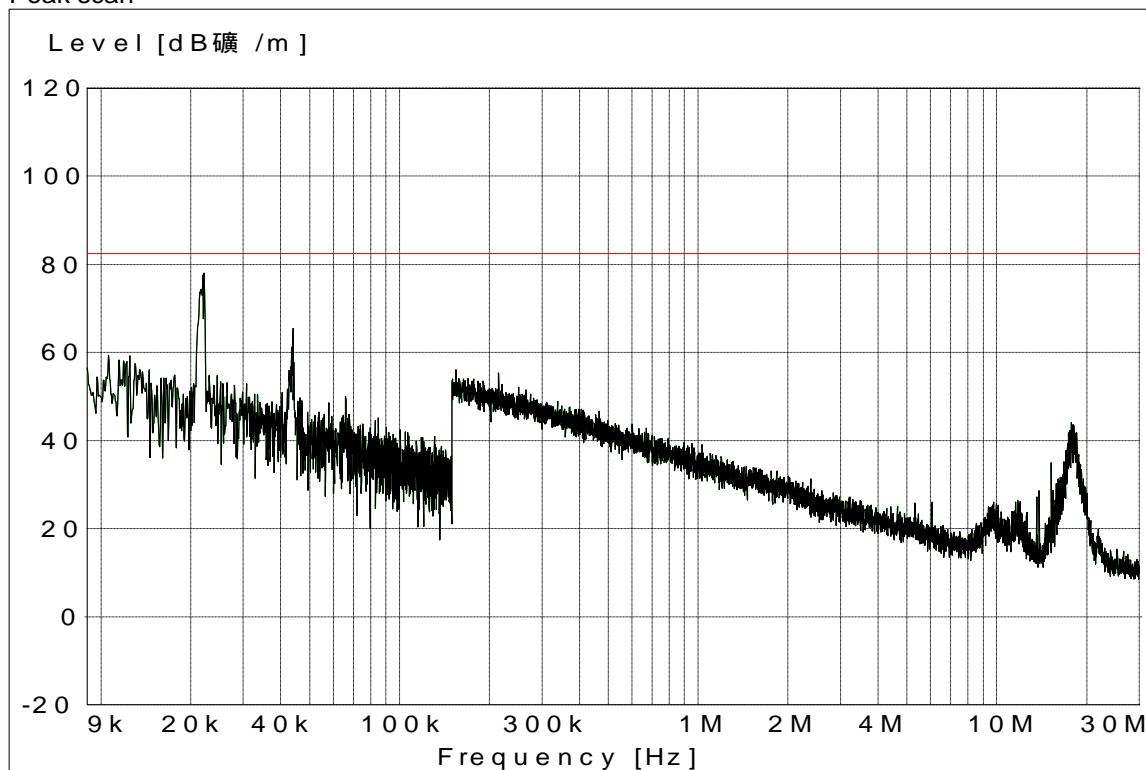
Page: 14 of 42

FCC ID:TAPMC-SKW1501

Model: MC-SKW1301

Antenna plane vertical (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	96.8	57.31	82.6	-25.3
0.28	-38.40	114.0	75.64	82.6	-7.0
0.63	-37.60	83.7	46.13	82.6	-36.5
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	65.6	24.31	82.6	-58.3
26.88	-39.60	76.9	37.31	82.6	-45.3



SGS-CSTC Standards Technical Services Co., Ltd.

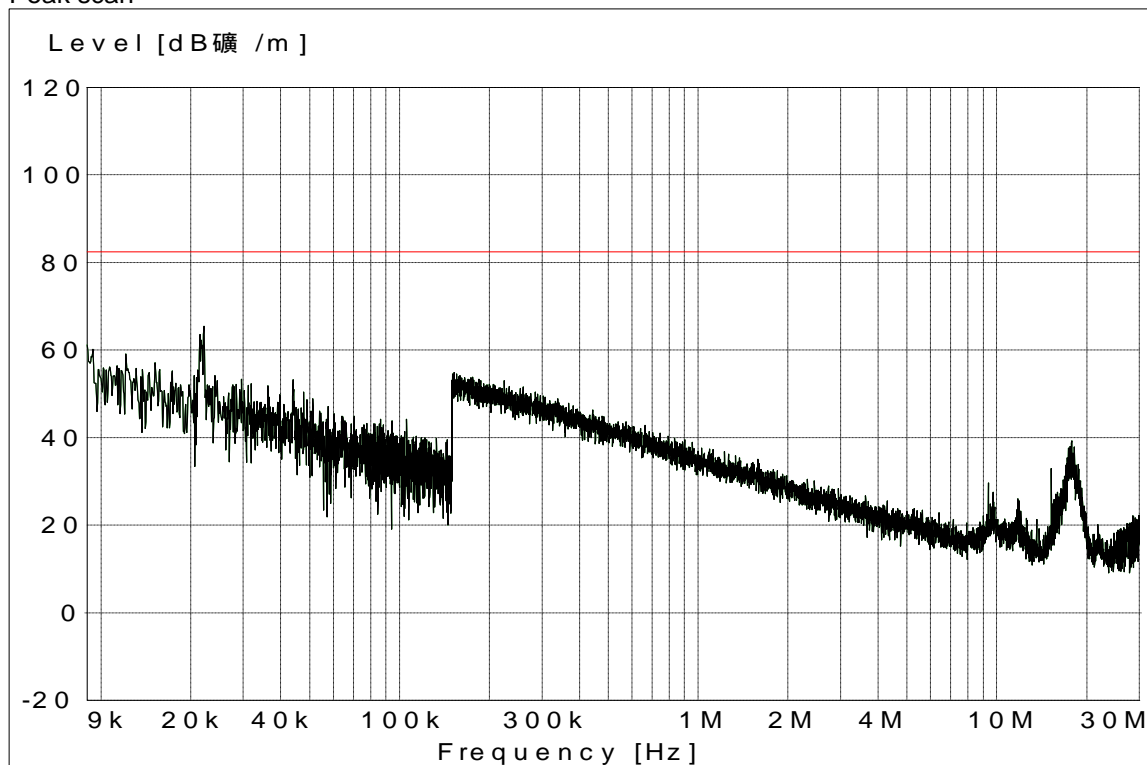
Report No.: GLEMO09050133101

Page: 15 of 42

FCC ID:TAPMC-SKW1501

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	99.1	59.45	82.6	-23.2
0.28	-36.20	92.8	56.59	82.6	-26.0
0.63	-39.70	80.0	40.31	82.6	-42.3
1.70	-41.20	77.3	36.13	82.6	-46.5
13.74	-40.80	64.1	23.34	82.6	-59.3
26.88	-40.20	65.9	25.66	82.6	-56.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

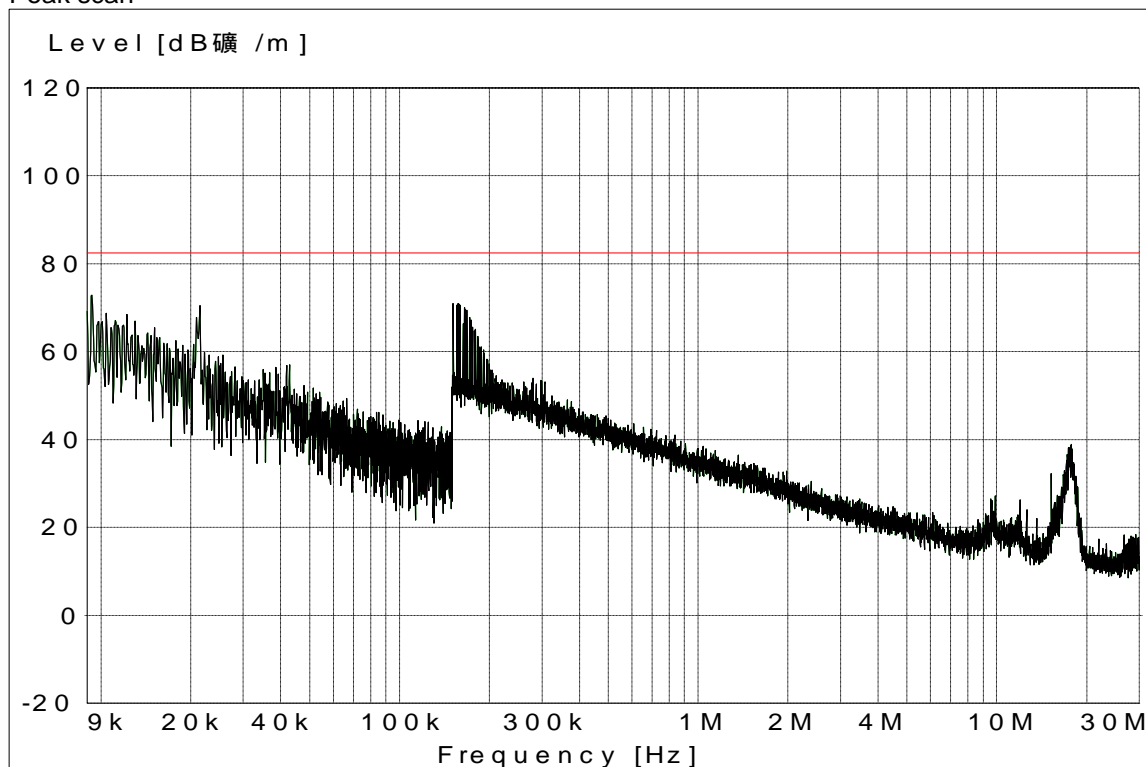
Page: 16 of 42

FCC ID:TAPMC-SKW1501

Model: MC-JEK13A

Antenna plane vertical (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	113.8	74.31	82.6	-8.3
0.28	-38.40	110.6	72.16	82.6	-10.4
0.63	-37.60	79.8	42.19	82.6	-40.4
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	60.2	18.89	82.6	-63.7
26.88	-39.60	57.9	18.31	82.6	-64.3



SGS-CSTC Standards Technical Services Co., Ltd.

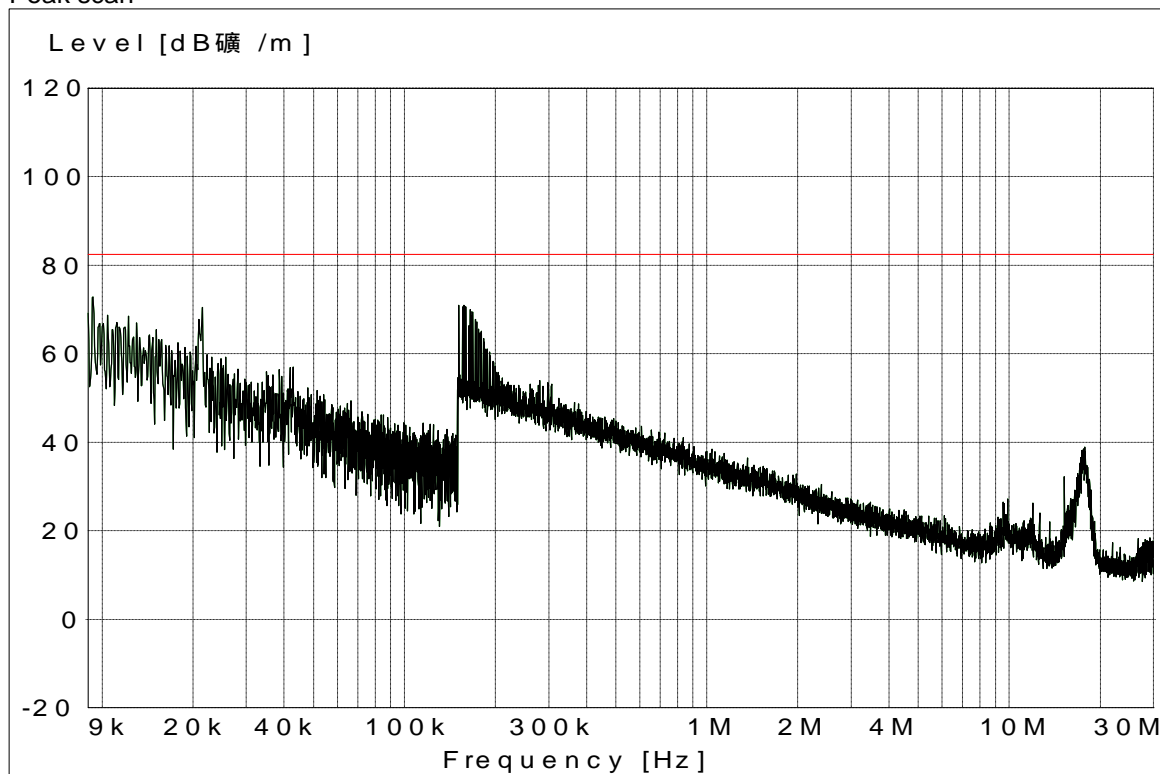
Report No.: GLEMO09050133101

Page: 17 of 42

FCC ID:TAPMC-SKW1501

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	117.3	77.67	82.6	-4.9
0.28	-36.20	112.0	75.78	82.6	-6.8
0.63	-39.70	85.0	45.30	82.6	-37.3
1.70	-41.20	77.3	36.13	82.6	-46.5
13.74	-40.80	64.1	23.34	82.6	-59.3
26.88	-40.20	75.9	35.66	82.6	-46.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

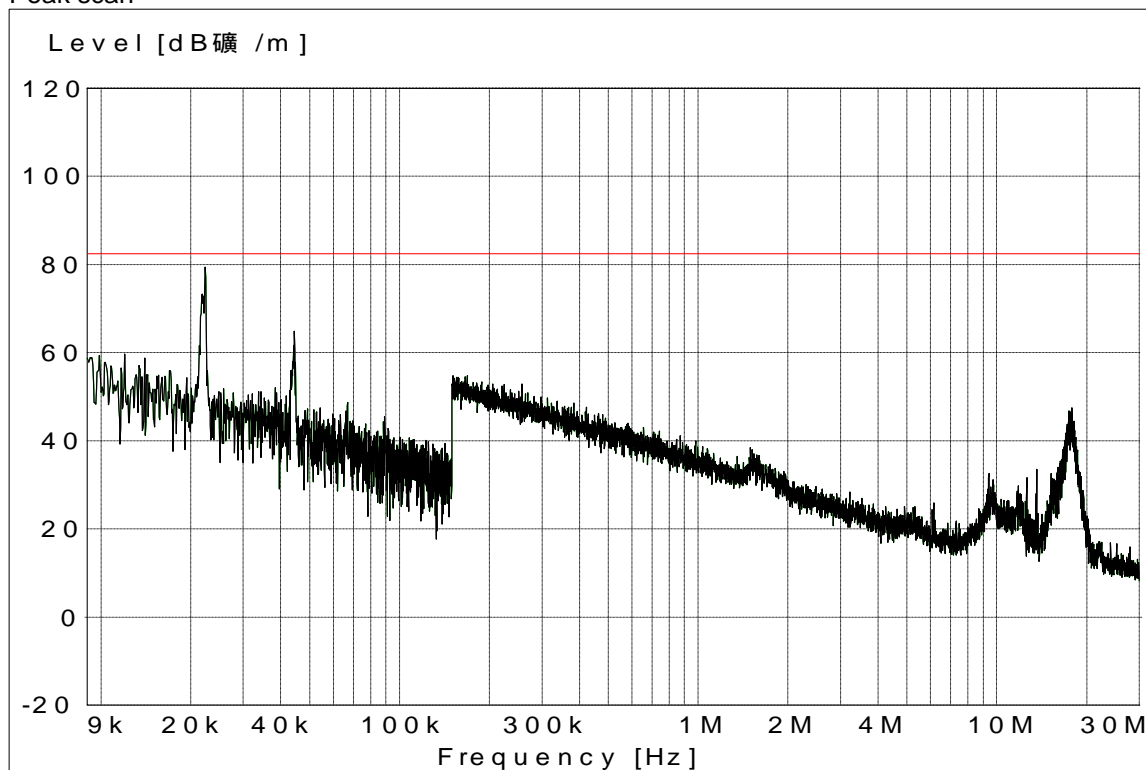
Page: 18 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH15K

Antenna plane vertical (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	98.2	58.72	82.6	-23.9
0.28	-38.40	117.8	79.37	82.6	-3.2
0.63	-37.60	83.9	46.31	82.6	-36.3
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	66.2	24.89	82.6	-57.7
26.88	-39.60	77.9	38.31	82.6	-44.3



SGS-CSTC Standards Technical Services Co., Ltd.

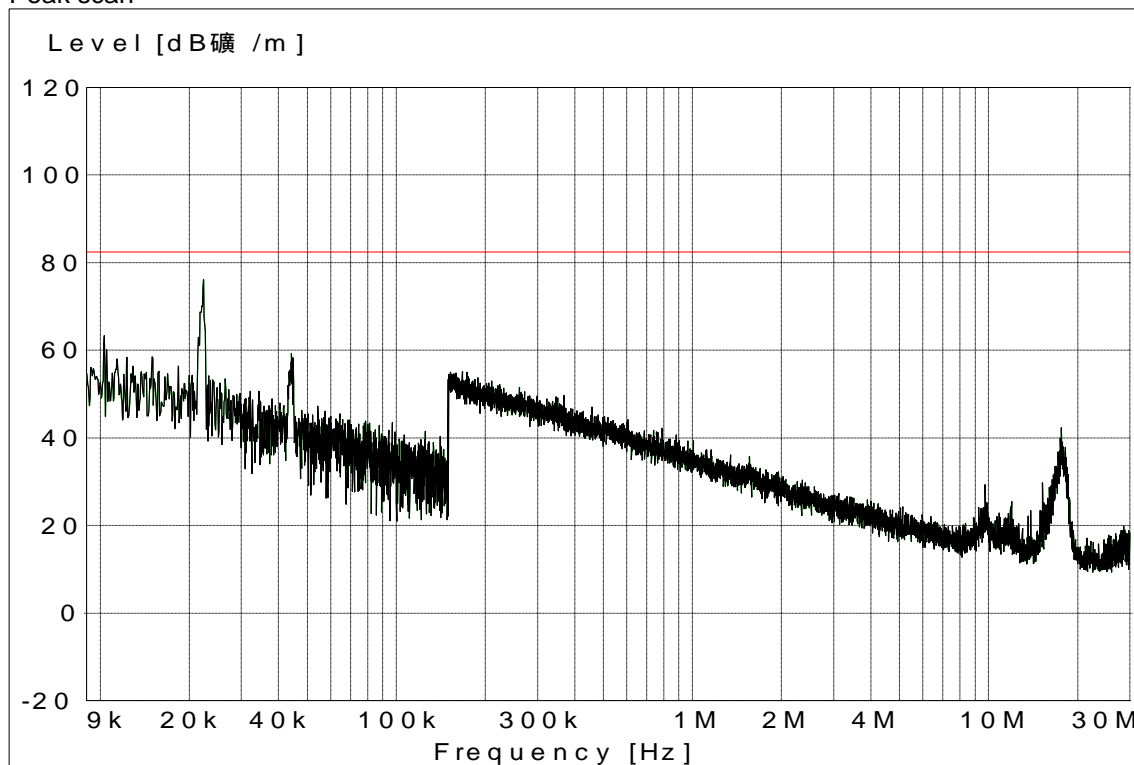
Report No.: GLEMO09050133101

Page: 19 of 42

FCC ID:TAPMC-SKW1501

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	96.0	56.37	82.6	-26.2
0.28	-36.20	112.5	76.31	82.6	-6.3
0.63	-39.70	79.8	40.13	82.6	-42.5
1.70	-41.20	77.3	36.13	82.6	-46.5
13.74	-40.80	64.1	23.34	82.6	-59.3
26.88	-40.20	75.9	35.66	82.6	-46.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

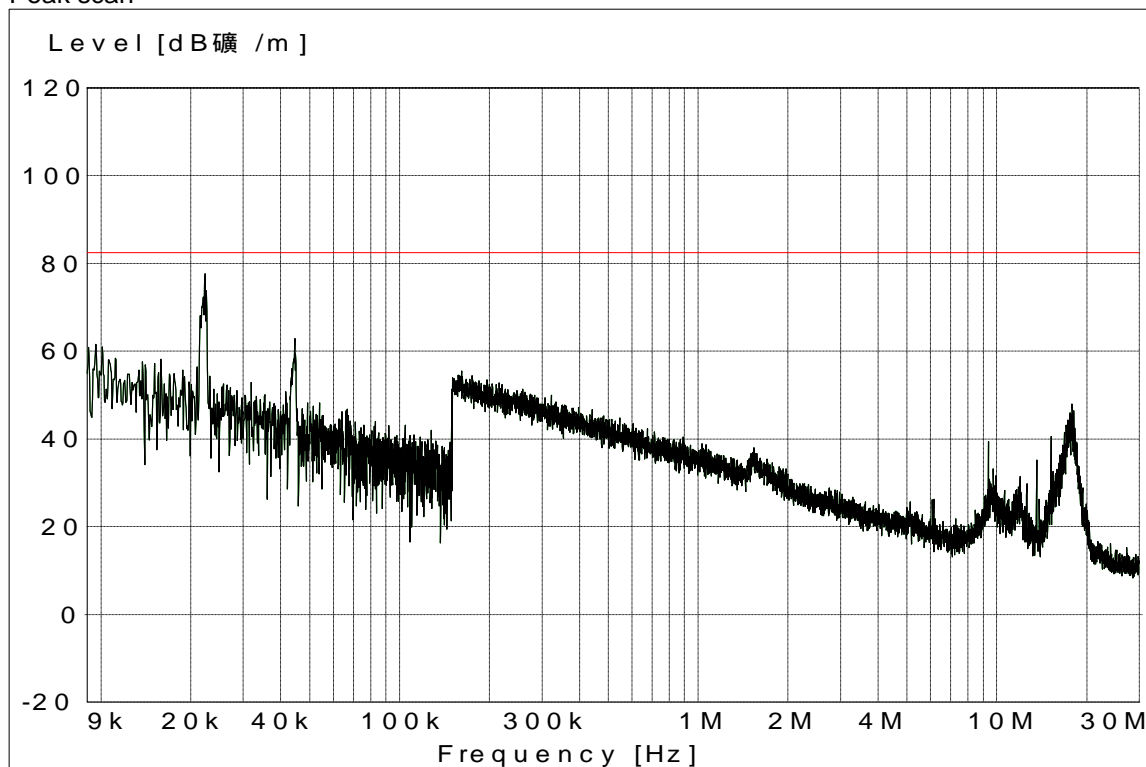
Page: 20 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH13L

Antenna plane vertical (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	99.8	60.32	82.6	-22.3
0.28	-38.40	114.1	75.67	82.6	-6.9
0.63	-37.60	77.9	40.31	82.6	-42.3
1.70	-40.20	75.6	35.37	82.6	-47.2
13.59	-41.30	65.7	24.37	82.6	-58.2
26.88	-39.60	67.9	28.31	82.6	-54.3



SGS-CSTC Standards Technical Services Co., Ltd.

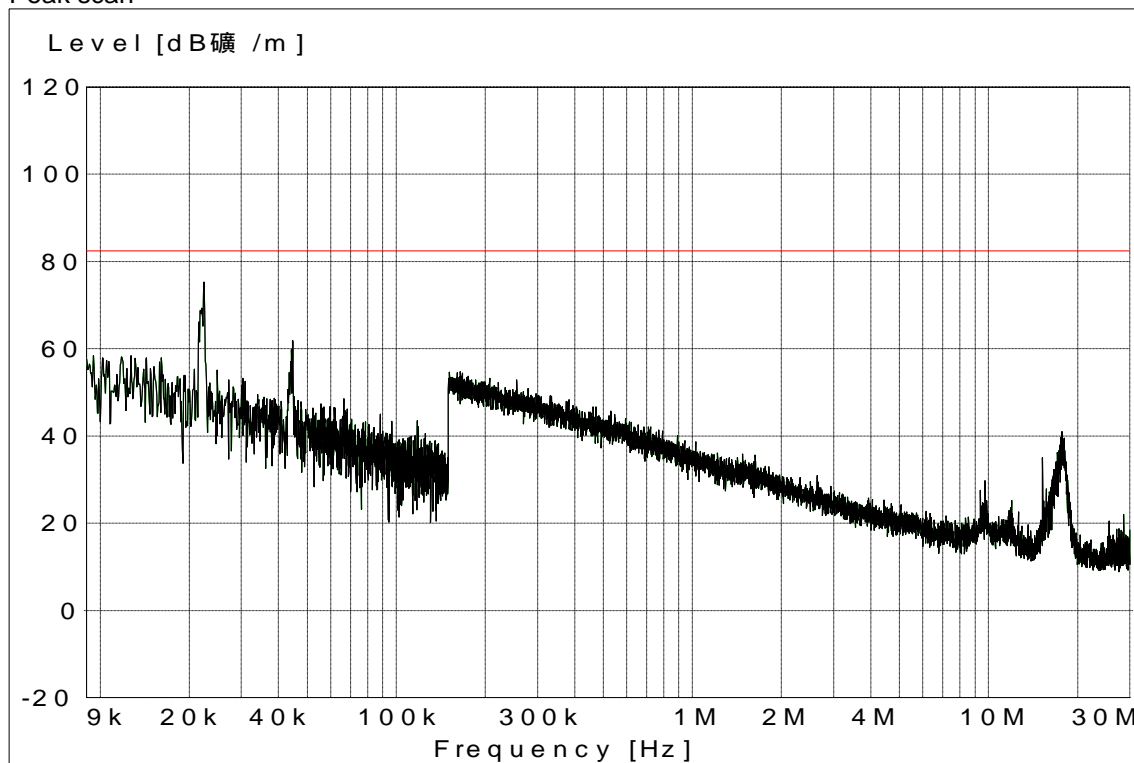
Report No.: GLEMO09050133101

Page: 21 of 42

FCC ID:TAPMC-SKW1501

Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	99.1	59.45	82.6	-23.2
0.28	-36.20	112.8	76.59	82.6	-6.0
0.63	-39.70	85.0	45.31	82.6	-37.3
1.70	-41.20	77.3	36.13	82.6	-46.5
13.74	-40.80	64.1	23.34	82.6	-59.3
26.88	-40.20	76.9	36.66	82.6	-45.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

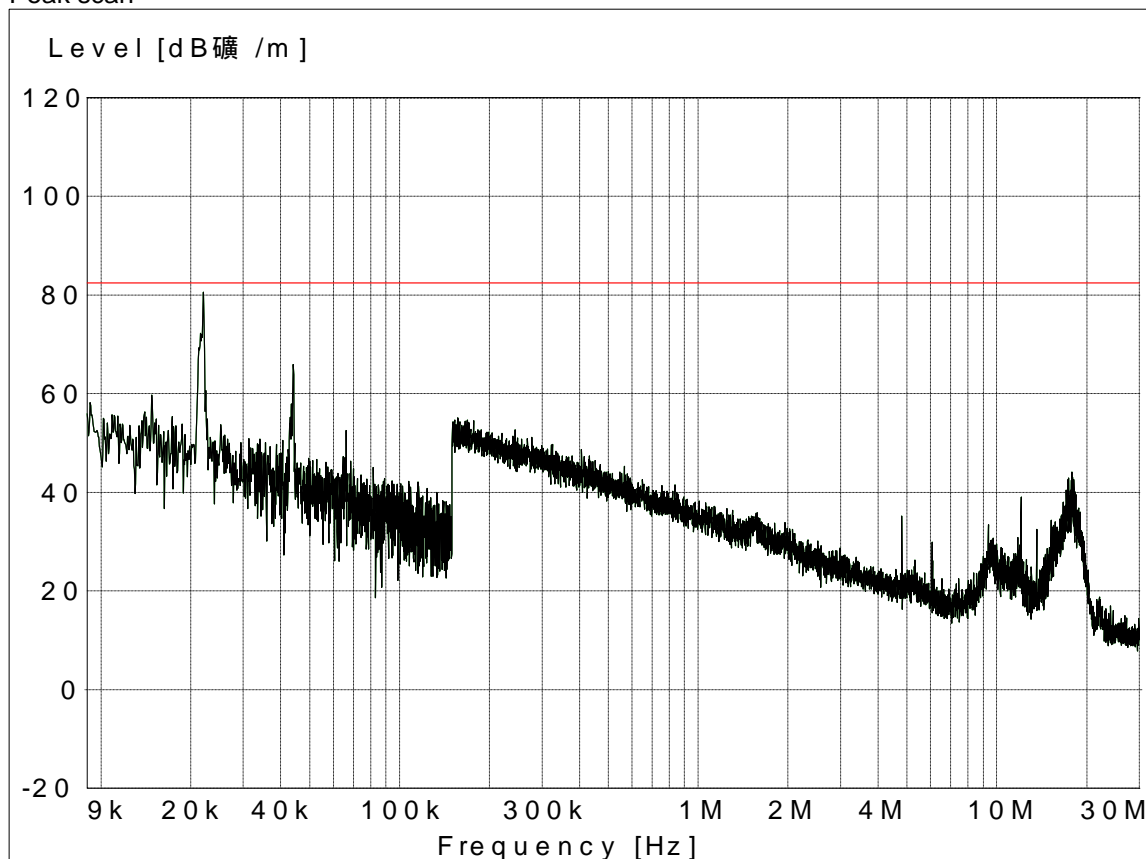
Page: 22 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH15L

Antenna plane vertical (towards the DUT):

Peak scan



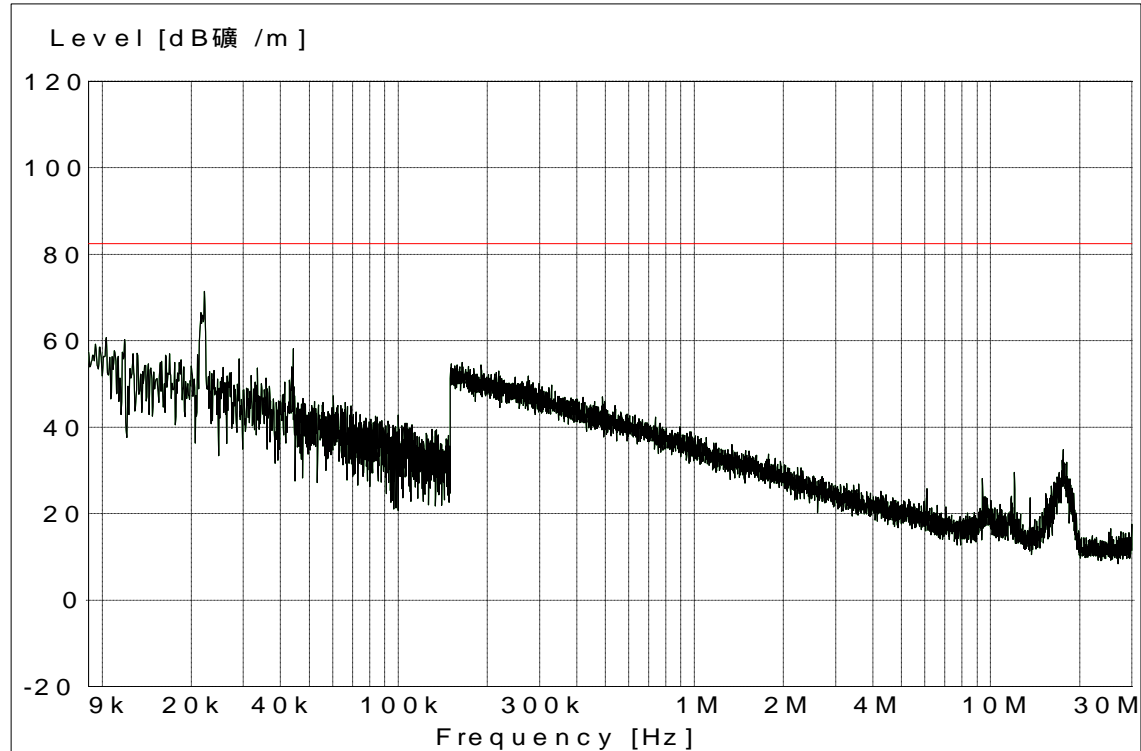
Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	100.1	60.56	82.6	-22.0
0.28	-38.40	117.7	79.34	82.6	-3.3
0.63	-37.60	83.9	46.31	82.6	-36.3
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	66.2	24.89	82.6	-57.7
26.88	-39.60	67.9	28.31	82.6	-54.3



Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	94.1	54.45	82.6	-28.2
0.28	-36.20	107.2	70.98	82.6	-11.6
0.63	-39.70	85.0	45.31	82.6	-37.3
1.70	-41.20	67.3	26.13	82.6	-56.5
13.74	-40.80	64.1	23.34	82.6	-59.3
26.88	-40.20	65.9	25.66	82.6	-56.9

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



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

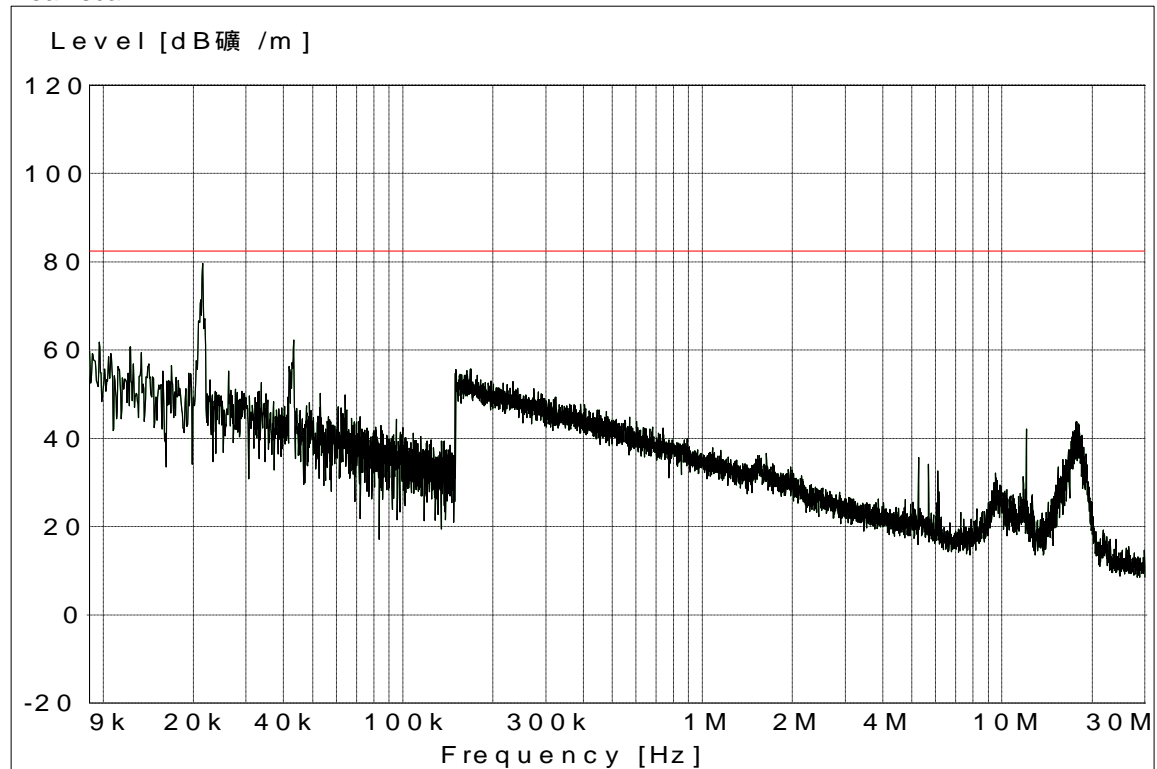
Page: 24 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH13K

Antenna plane vertical (towards the DUT):

Peak scan



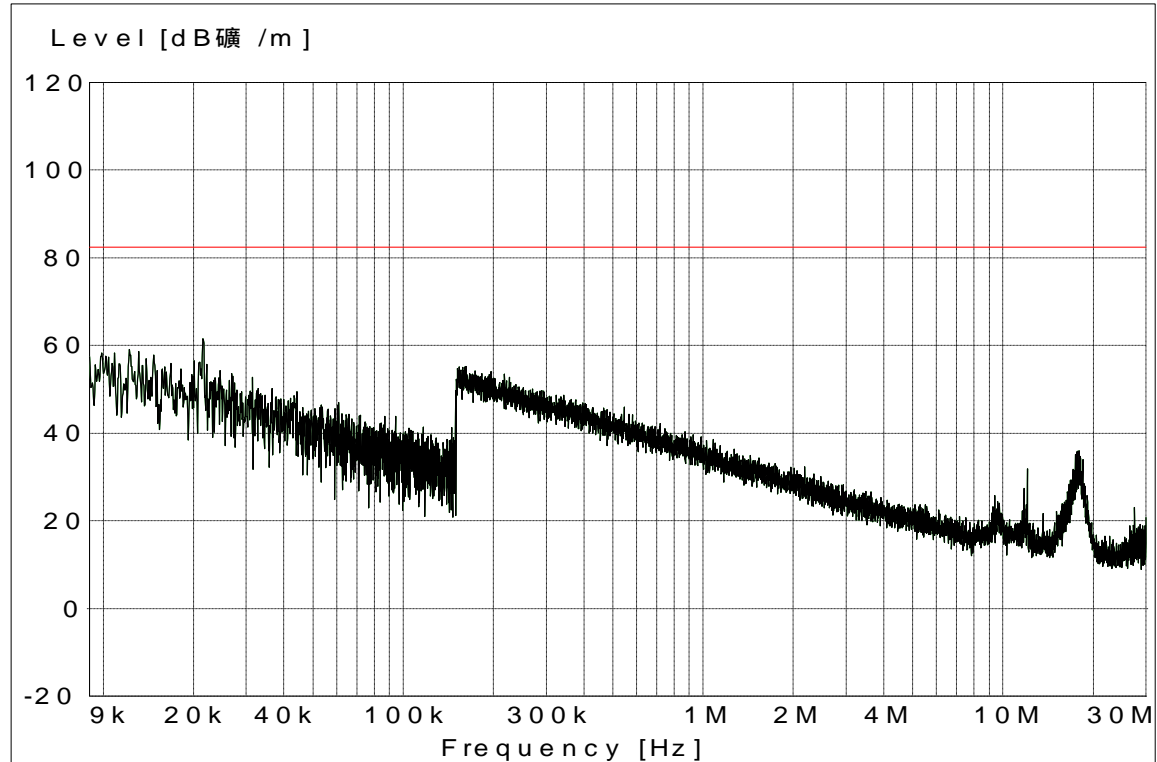
Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.15	-39.50	98.3	58.76	82.6	-23.8
0.28	-38.40	117.4	78.97	82.6	-3.6
0.63	-37.60	83.9	46.31	82.6	-36.3
1.70	-40.20	78.6	38.41	82.6	-44.2
13.59	-41.30	66.2	24.89	82.6	-57.7
26.88	-39.60	77.9	38.31	82.6	-44.3



Antenna plane horizontal (towards the DUT):

Peak scan



Quasi-peak measurement

Frequency	Transducer	Receiver QP Reading	Receiver QP Level	Limit	Over Limit
(MHz)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)
0.02	-39.60	100.5	60.89	82.6	-21.7
0.28	-36.20	92.5	56.32	82.6	-26.3
0.63	-39.70	83.6	43.87	82.6	-38.7
1.70	-41.20	77.8	36.64	82.6	-46.0
13.74	-40.80	64.0	23.17	82.6	-59.4
26.88	-40.20	55.9	15.66	82.6	-66.9

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

6.2 Conducted Emissions, 9 kHz to 30 MHz

Test Requirement: FCC Part18
 Test Method: FCC OST/ MP-5
 Test Date: 31 May 2009
 Frequency Range: 9 kHz to 30 MHz
 Class: 18.307(a)
 Detector: Peak for pre-scan, Quasi-Peak and Average for the final result.
 (200 Hz Resolution Bandwidth for 9 kHz to 150 kHz, 9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)

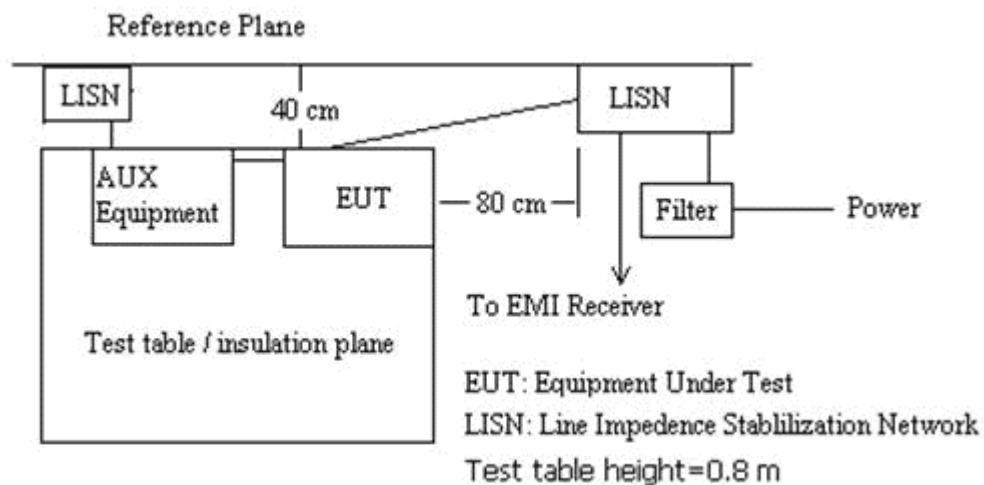
6.2.1 E.U.T. Operation

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 31 May 2009:



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

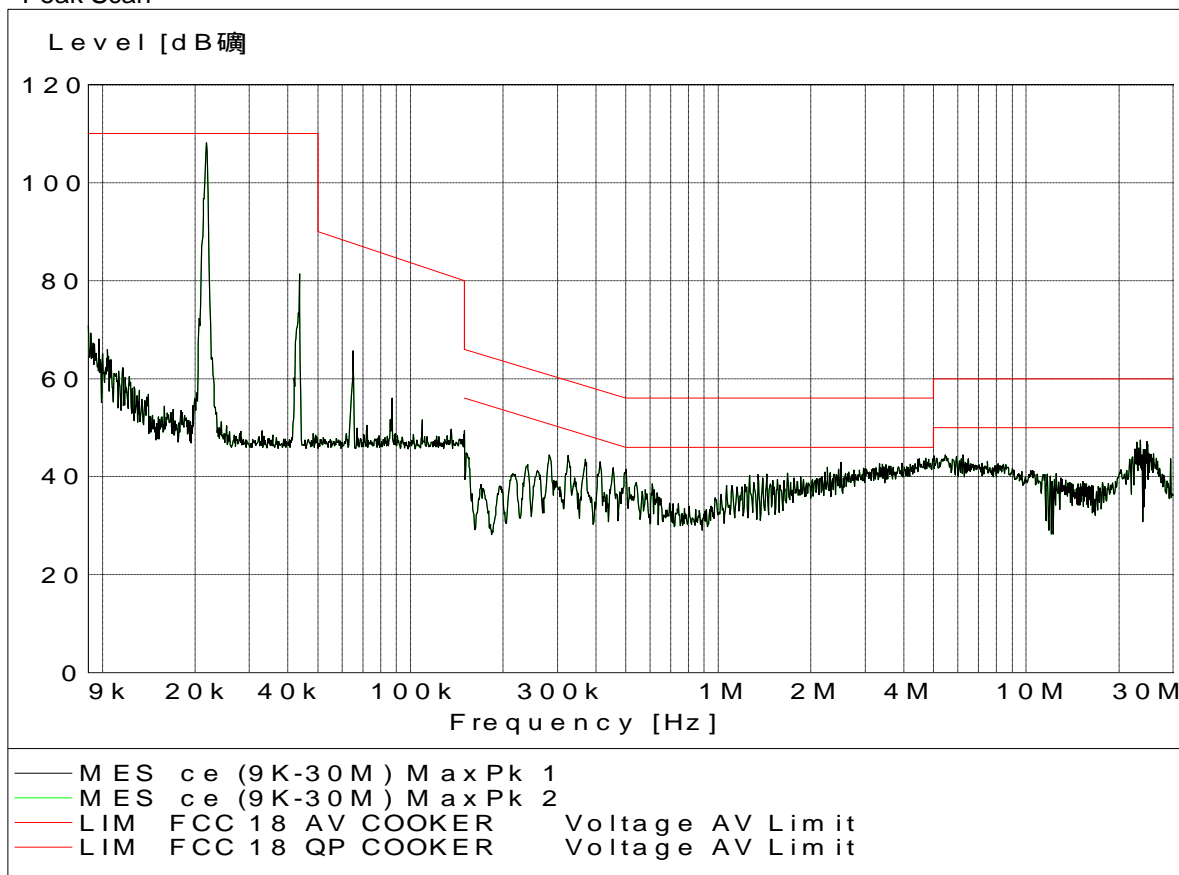
Page: 27 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH13K

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.0	105.7	110.0	-4.3	*	*	*	*
0.044	9.7	67.1	76.8	110.0	-33.2	*	*	*	*
0.065	9.7	51.9	61.6	87.6	-26.0	*	*	*	*
0.283	9.7	33.8	43.5	60.7	-17.2	26.6	36.3	50.7	-14.4
0.370	9.7	32.4	42.1	58.5	-16.4	25.0	34.7	48.5	-13.8
0.503	10.4	26.6	37.0	56.0	-19.0	19.8	30.2	46.0	-15.8



SGS-CSTC Standards Technical Services Co., Ltd.

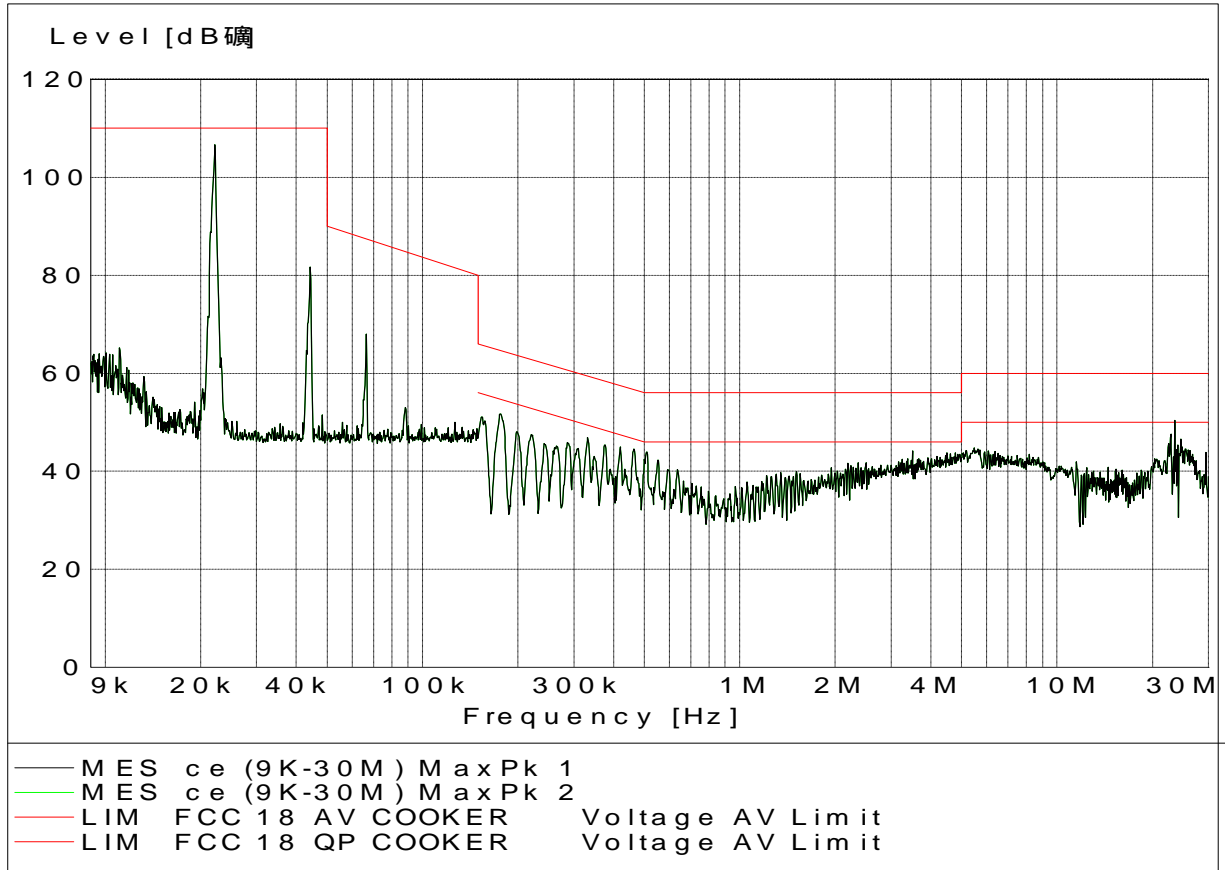
Report No.: GLEMO09050133101

Page: 28 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	94.1	103.8	110.0	-6.2	*	*	*	*
0.044	9.7	66.4	76.1	110.0	-33.9	*	*	*	*
0.066	9.7	52.5	62.2	87.5	-25.3	*	*	*	*
0.176	9.7	41.7	51.4	64.7	-13.3	36.1	45.8	54.7	-8.9
0.199	9.7	36.8	46.5	63.6	-17.1	29.0	38.7	53.6	-14.9
0.332	10.4	31.2	41.6	59.4	-17.8	24.0	34.4	49.4	-15.0

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

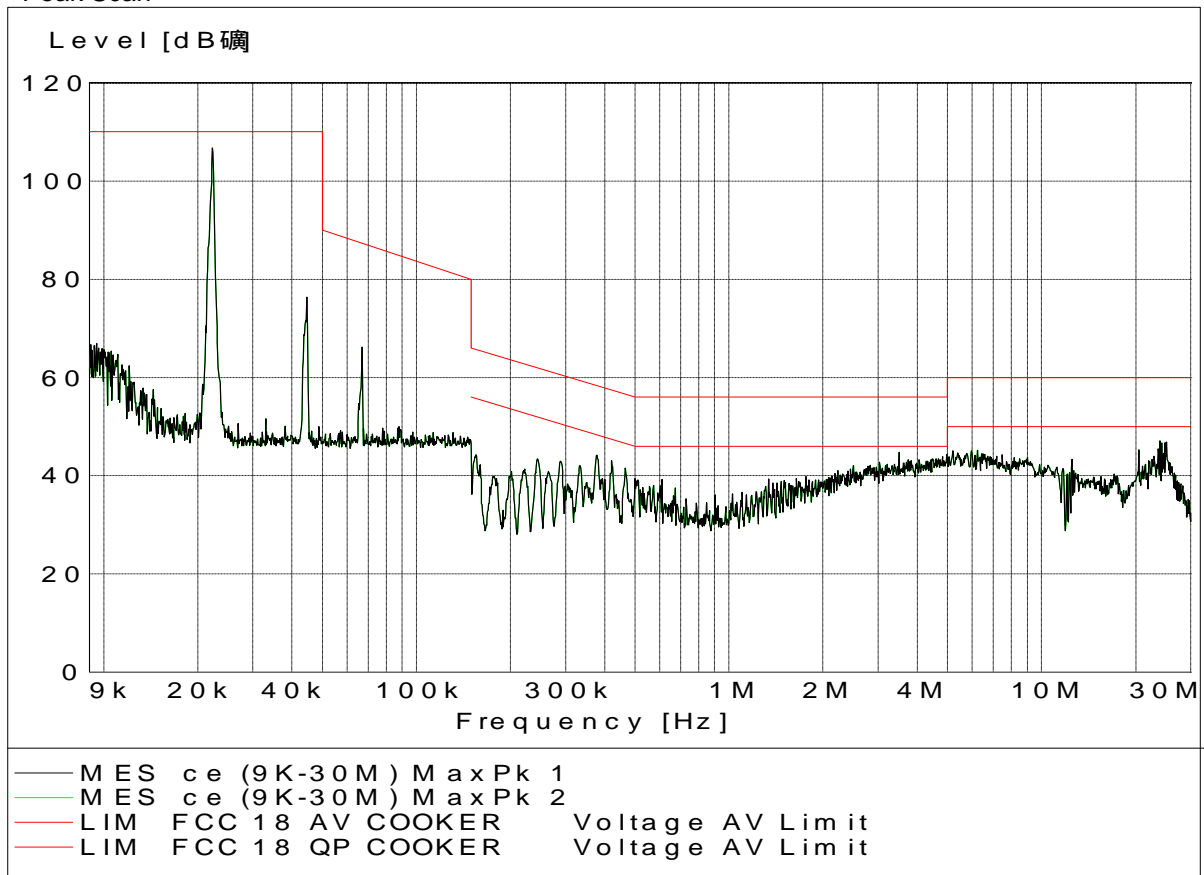
Page: 29 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH15L

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	94.9	104.6	110.0	-5.4	*	*	*	*
0.044	9.7	67.7	77.4	110.0	-32.6	*	*	*	*
0.066	9.7	44.5	54.2	87.5	-33.3	*	*	*	*
0.377	9.7	31.5	41.2	58.3	-17.1	25.2	34.9	48.3	-13.4
0.422	9.7	30.4	40.1	57.4	-17.3	24.4	34.1	47.4	-13.3
0.466	10.4	26.6	37.0	56.6	-19.6	23.4	33.8	46.6	-12.8



SGS-CSTC Standards Technical Services Co., Ltd.

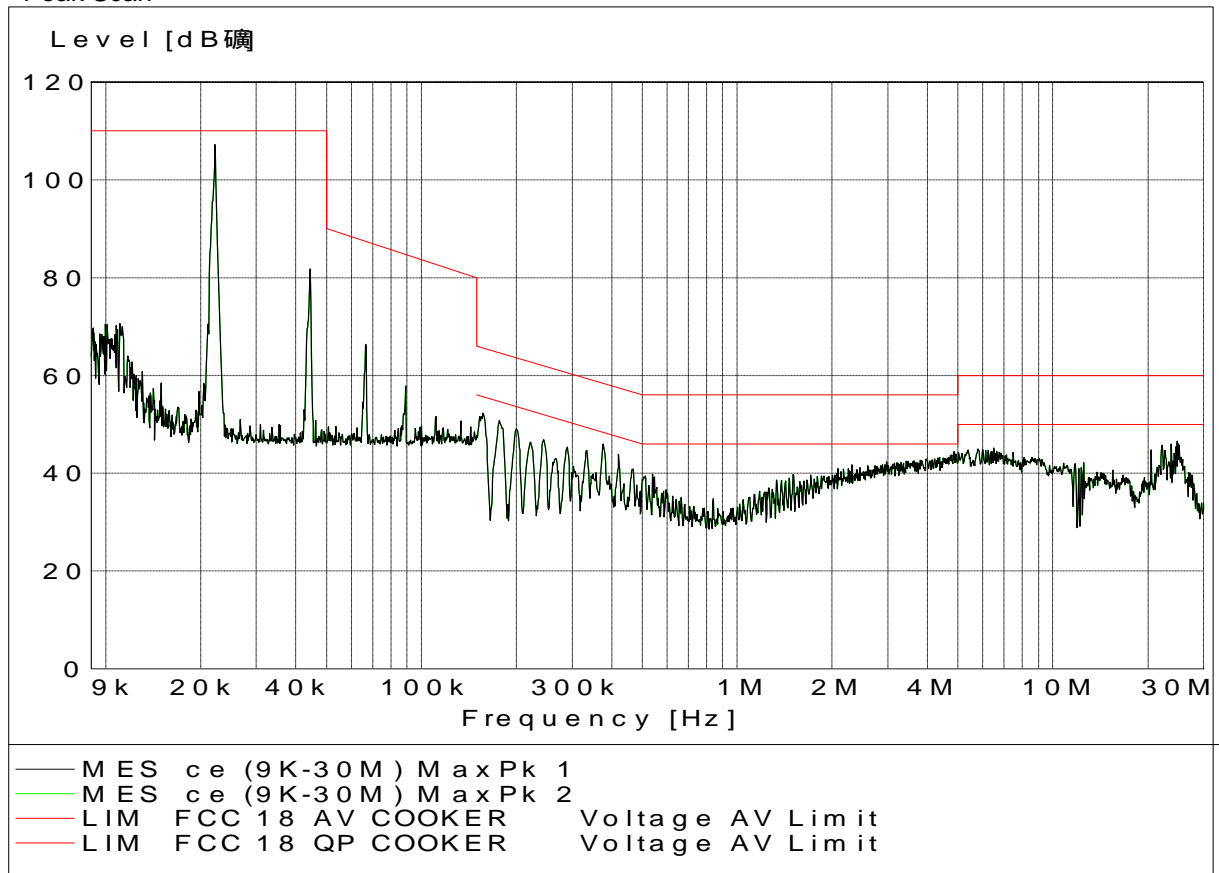
Report No.: GLEMO09050133101

Page: 30 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	95.4	105.1	110.0	-4.9	*	*	*	*
0.044	9.7	68.7	78.4	110.0	-31.6	*	*	*	*
0.066	9.7	52.5	62.2	87.5	-25.3	*	*	*	*
0.177	9.7	40.9	50.6	64.6	-14.0	36.1	45.8	54.6	-8.8
0.200	9.7	39.4	49.1	63.6	-14.5	32.6	42.3	53.6	-11.3
0.244	10.4	35.9	46.3	62.0	-15.7	29.1	39.5	52.0	-12.5

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

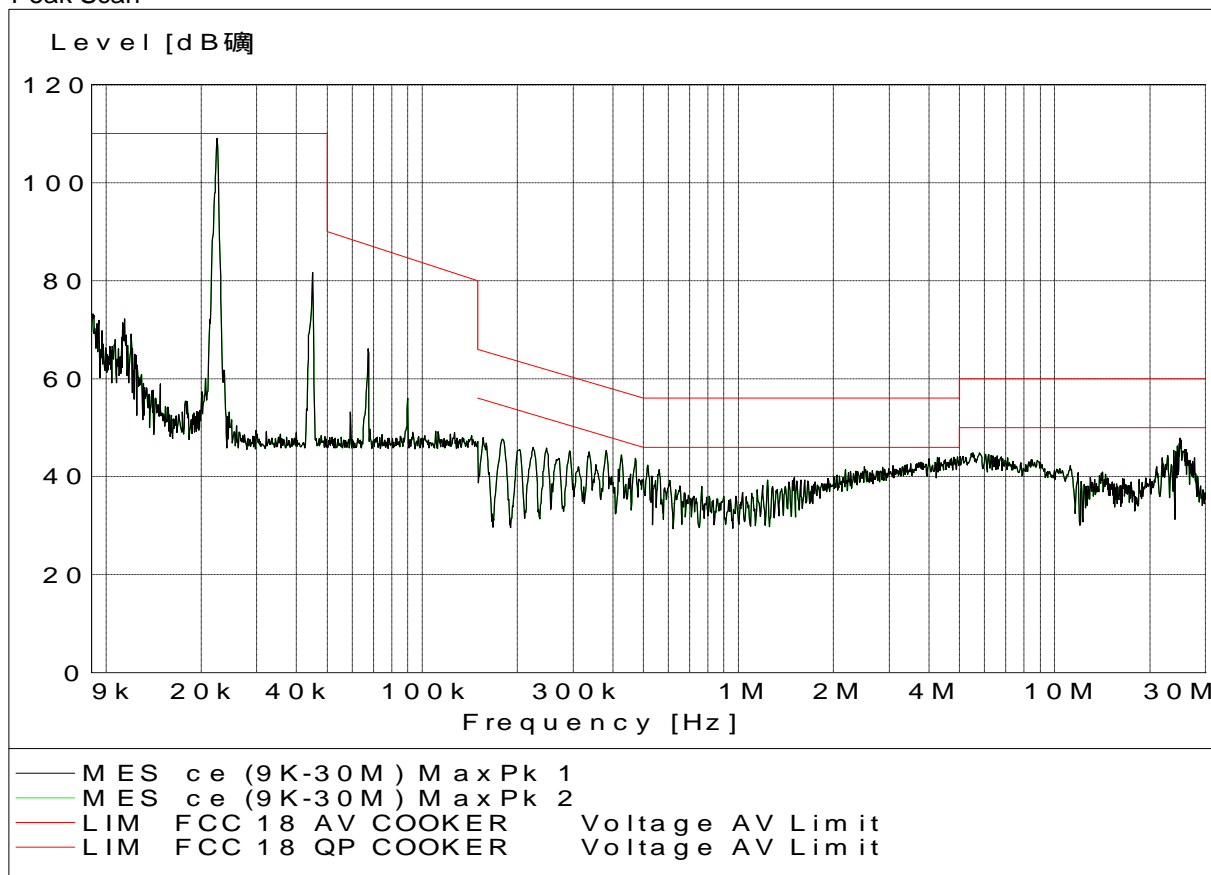
Page: 31 of 42

FCC ID:TAPMC-SKW1501

Model: MC-ESH13L

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	97.5	107.2	110.0	-2.8	*	*	*	*
0.044	9.7	69.1	78.8	110.0	-31.2	*	*	*	*
0.066	9.7	52.1	61.8	87.5	-25.7	*	*	*	*
0.382	9.7	34.7	44.4	58.2	-13.8	27.7	37.4	48.2	-10.8
0.427	9.7	33.3	43.0	57.3	-14.3	24.9	34.6	47.3	-12.7
0.472	10.4	31.7	42.1	56.5	-14.4	23.7	34.1	46.5	-12.4



SGS-CSTC Standards Technical Services Co., Ltd.

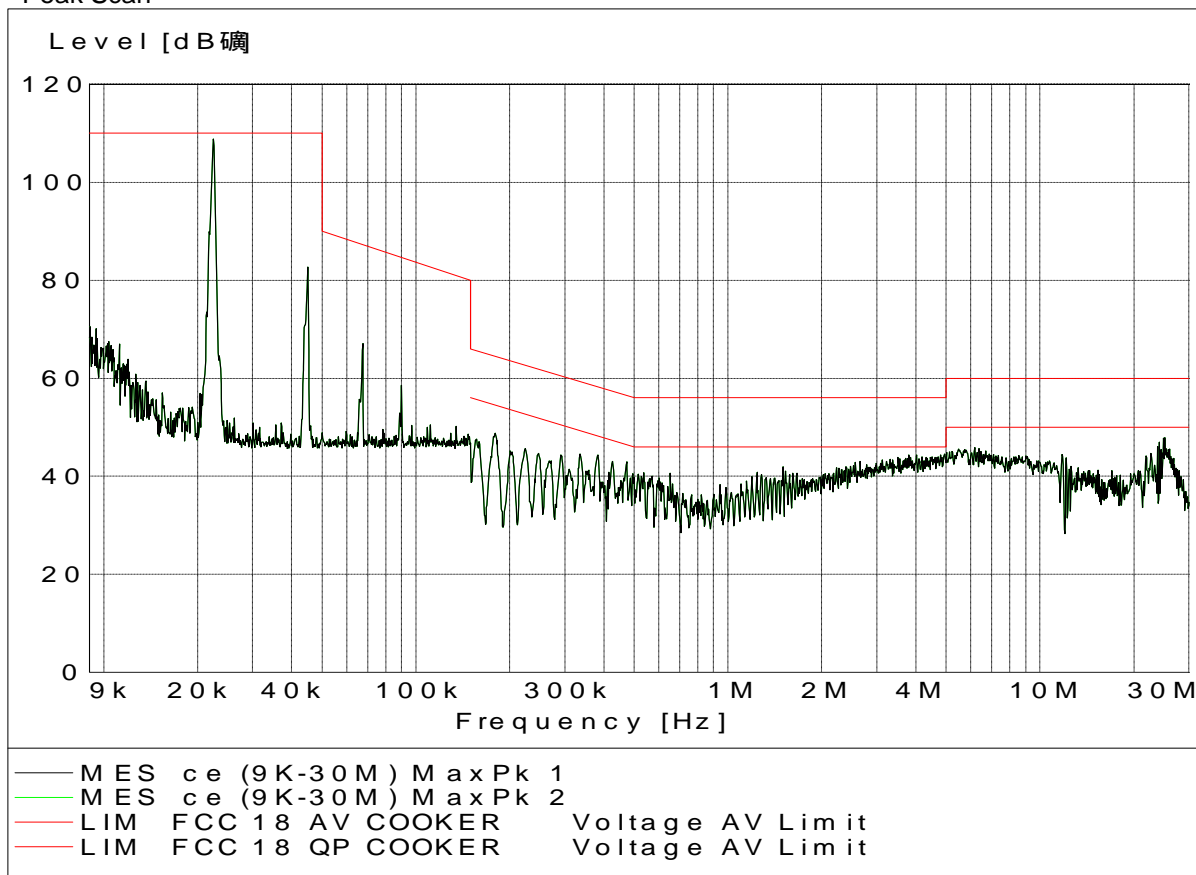
Report No.: GLEMO09050133101

Page: 32 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	97.4	107.1	110.0	-2.9	*	*	*	*
0.044	9.7	69.3	79.0	110.0	-31.0	*	*	*	*
0.066	9.7	53.8	63.5	87.5	-24.0	*	*	*	*
0.180	9.7	37.7	47.4	64.5	-17.1	32.6	42.3	54.5	-12.2
0.224	9.7	34.8	44.5	62.7	-18.2	29.9	39.6	52.7	-13.1
0.336	10.4	32.4	42.8	59.3	-16.5	29.1	39.5	49.3	-9.8

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

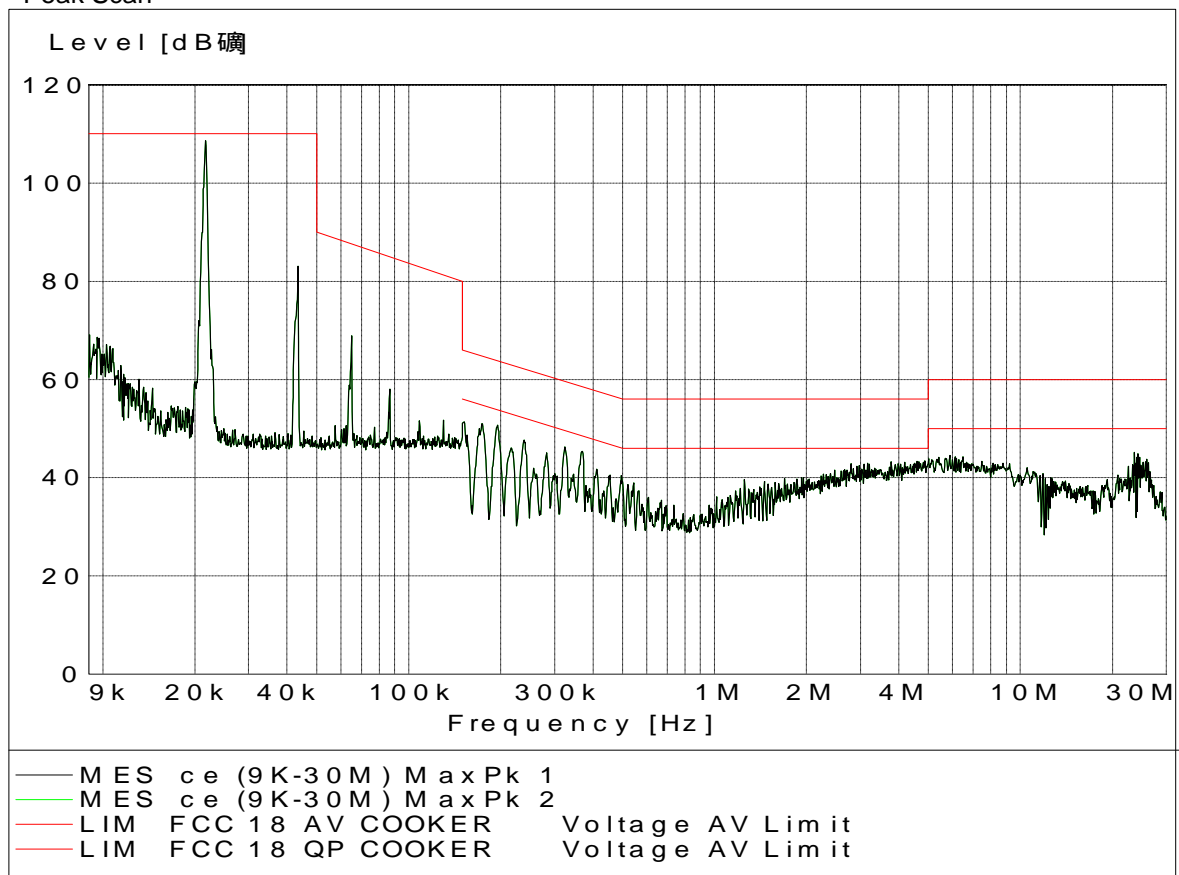
Page: 33 of 42

FCC ID:TAPMC-SKW1501

Model: MC-JEK13A

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.7	106.4	110.0	-3.6	*	*	*	*
0.044	9.7	72.6	82.3	110.0	-27.7	*	*	*	*
0.066	9.7	58.7	68.4	87.5	-19.1	*	*	*	*
0.382	9.7	34.4	44.1	58.2	-14.1	29.1	38.8	48.2	-9.4
0.427	9.7	33.1	42.8	57.3	-14.5	28.2	37.9	47.3	-9.4
0.472	10.4	30.5	40.9	56.5	-15.6	23.5	33.9	46.5	-12.6



SGS-CSTC Standards Technical Services Co., Ltd.

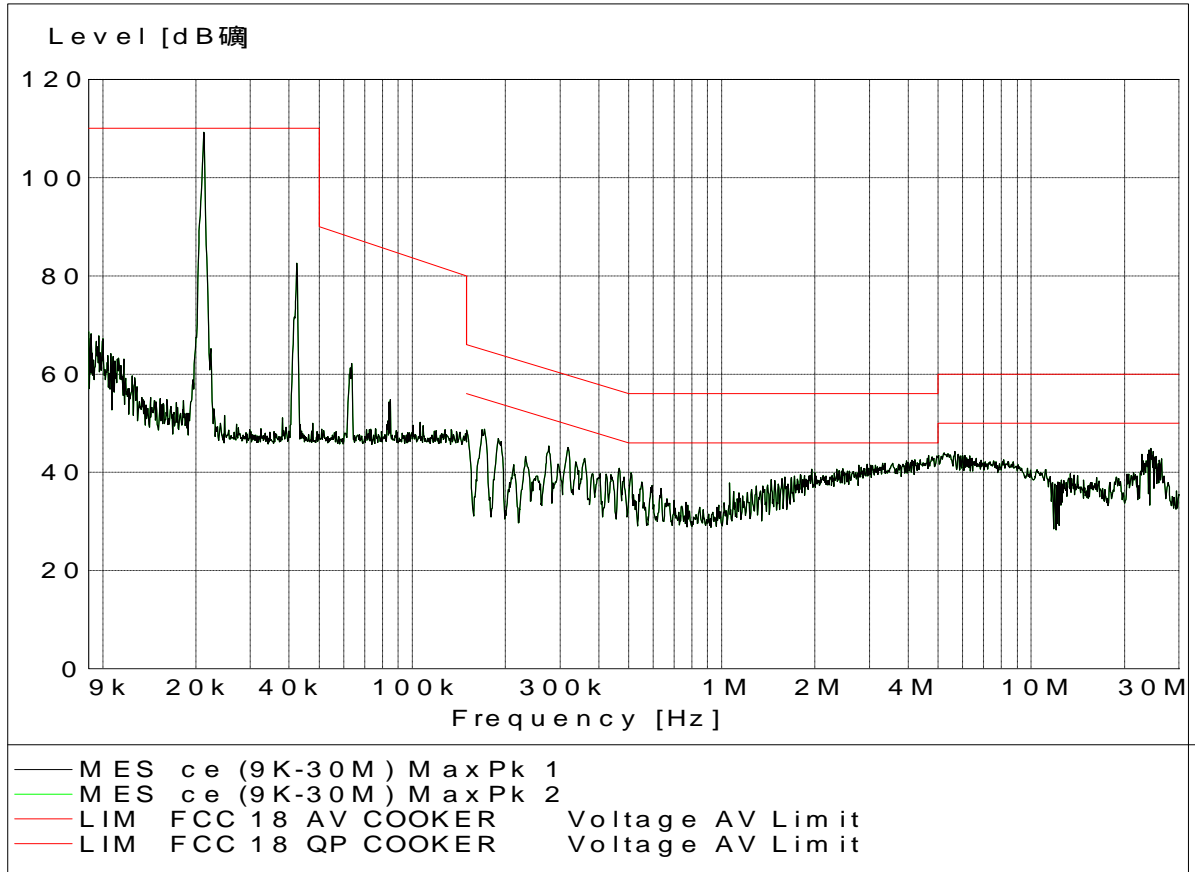
Report No.: GLEMO09050133101

Page: 34 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	97.7	107.4	110.0	-2.6	*	*	*	*
0.044	9.7	69.5	79.2	110.0	-30.8	*	*	*	*
0.066	9.7	50.6	60.3	87.5	-27.2	*	*	*	*
0.180	9.7	35.9	45.6	64.5	-18.9	32.3	42.0	54.5	-12.5
0.224	9.7	34.5	44.2	62.7	-18.5	29.8	39.5	52.7	-13.2
0.336	10.4	31.6	42.0	59.3	-17.3	28.7	39.1	49.3	-10.2

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

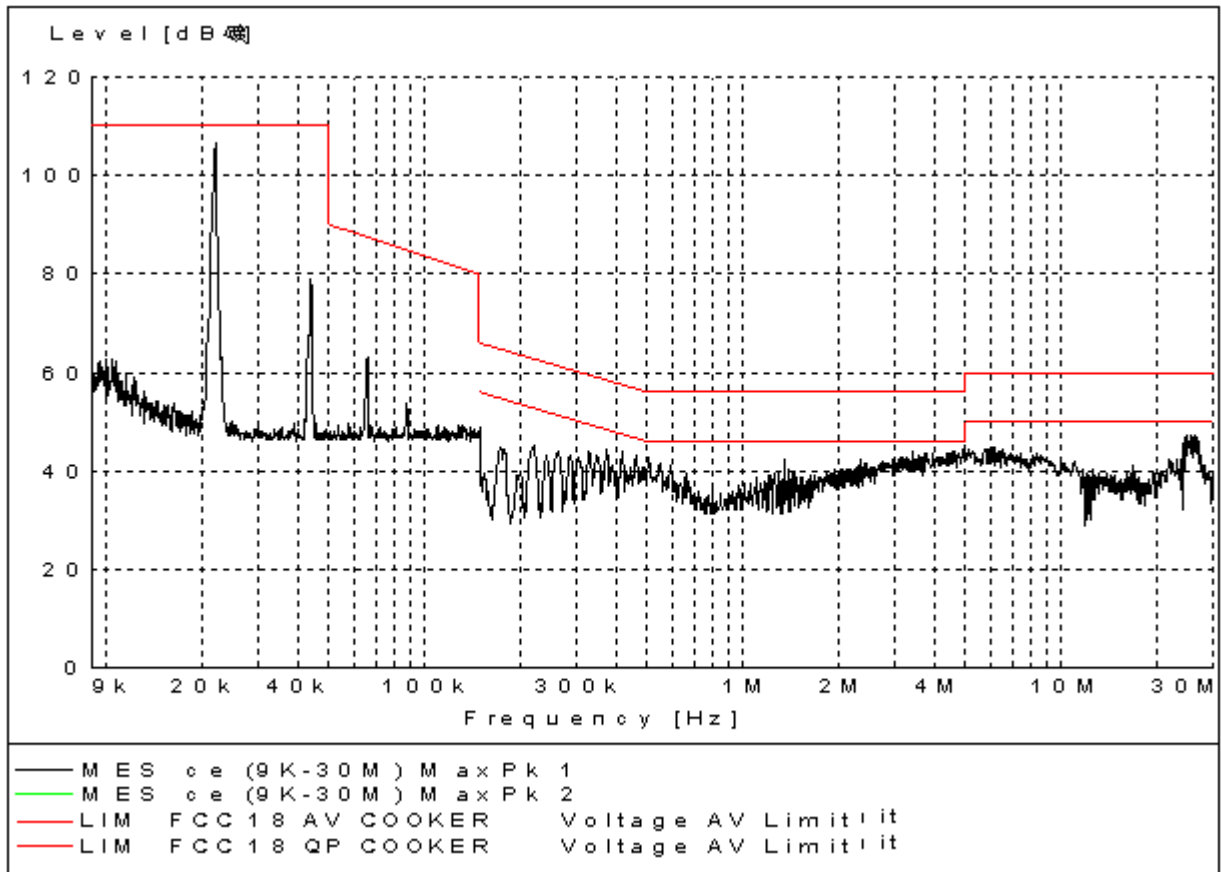
Page: 35 of 42

FCC ID:TAPMC-SKW1501

Model: MC-JEK15A

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	95.4	105.1	110.0	-4.9	*	*	*	*
0.044	9.7	77.9	87.6	110.0	-22.4	*	*	*	*
0.066	9.7	56.2	65.9	87.5	-21.6	*	*	*	*
0.382	9.7	36.4	46.1	58.2	-12.1	28.4	38.1	48.2	-10.1
0.427	9.7	33.5	43.2	57.3	-14.1	23.4	33.1	47.3	-14.2
0.472	10.4	29.5	39.9	56.5	-16.6	25.5	35.9	46.5	-10.6



SGS-CSTC Standards Technical Services Co., Ltd.

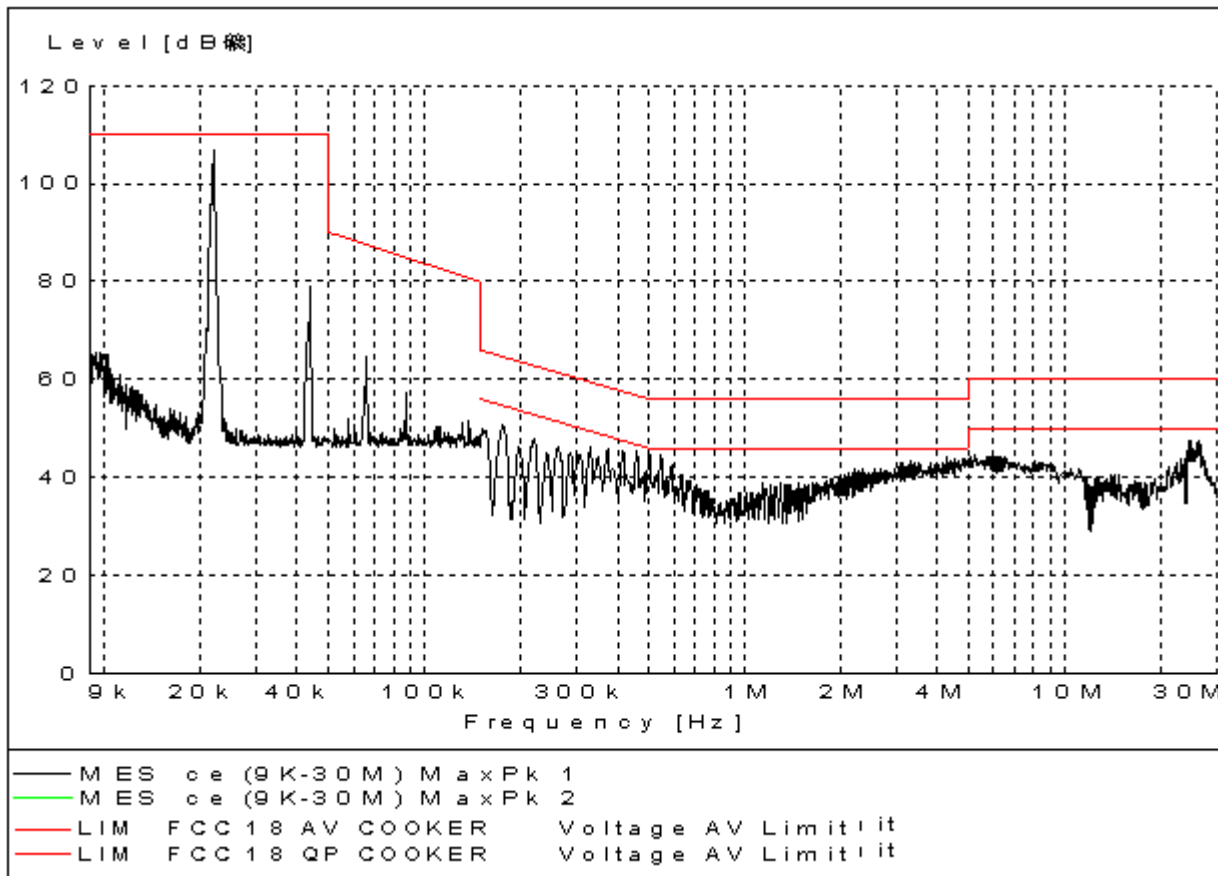
Report No.: GLEMO09050133101

Page: 36 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.6	106.3	110.0	-3.7	*	*	*	*
0.044	9.7	72.5	82.2	110.0	-27.8	*	*	*	*
0.066	9.7	56.1	65.8	87.5	-21.7	*	*	*	*
0.180	9.7	35.0	44.7	64.5	-19.8	33.6	43.3	54.5	-11.2
0.224	9.7	33.6	43.3	62.7	-19.4	31.6	41.3	52.7	-11.4
0.336	10.4	33.9	44.3	59.3	-15.0	29.7	40.1	49.3	-9.2

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

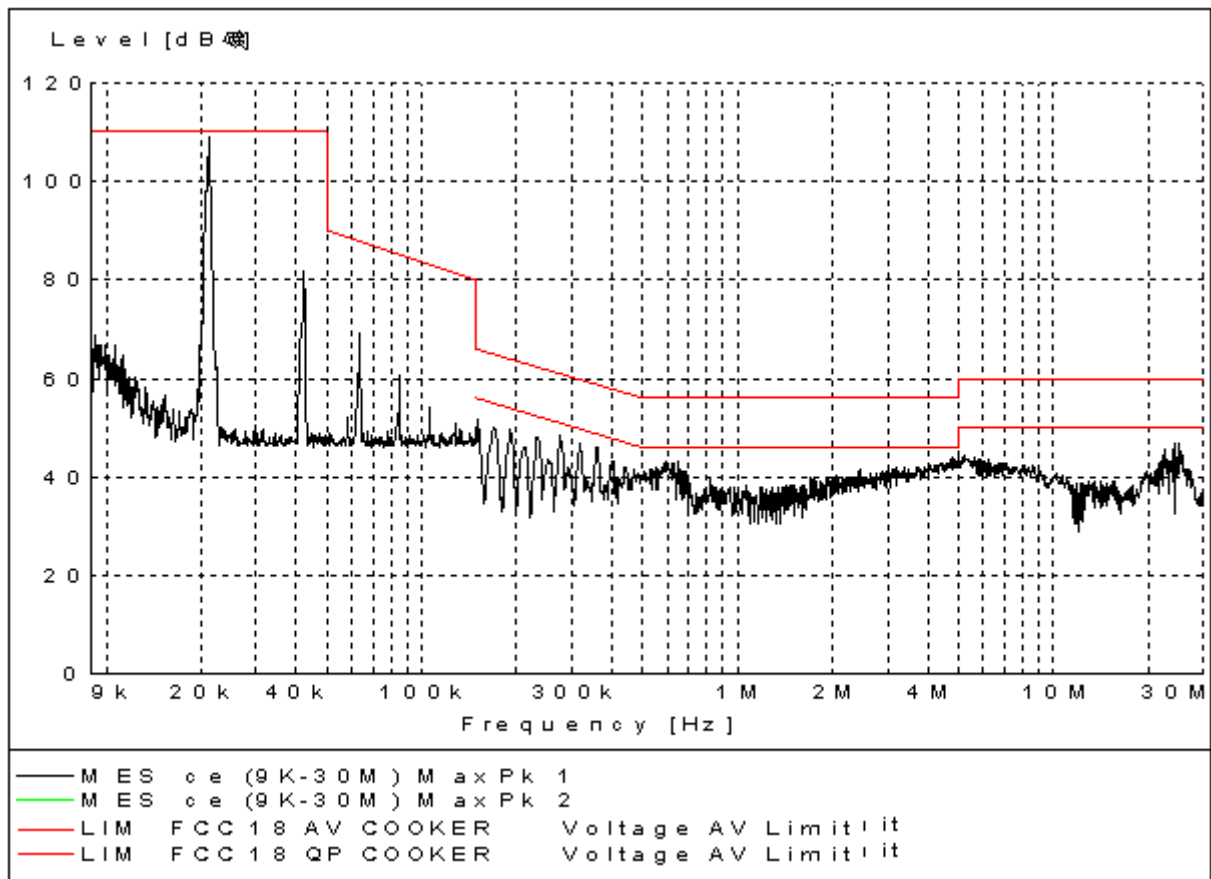
Page: 37 of 42

FCC ID:TAPMC-SKW1501

Model: MC-SKW1501

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	97.6	107.3	110.0	-2.7	*	*	*	*
0.044	9.7	72.6	82.3	110.0	-27.7	*	*	*	*
0.066	9.7	59.6	69.3	87.5	-18.2	*	*	*	*
0.382	9.7	34.6	44.3	58.2	-13.9	28.6	38.3	48.2	-9.9
0.427	9.7	31.6	41.3	57.3	-16.0	24.5	34.2	47.3	-13.1
0.472	10.4	32.7	43.1	56.5	-13.4	24.9	35.3	46.5	-11.2



SGS-CSTC Standards Technical Services Co., Ltd.

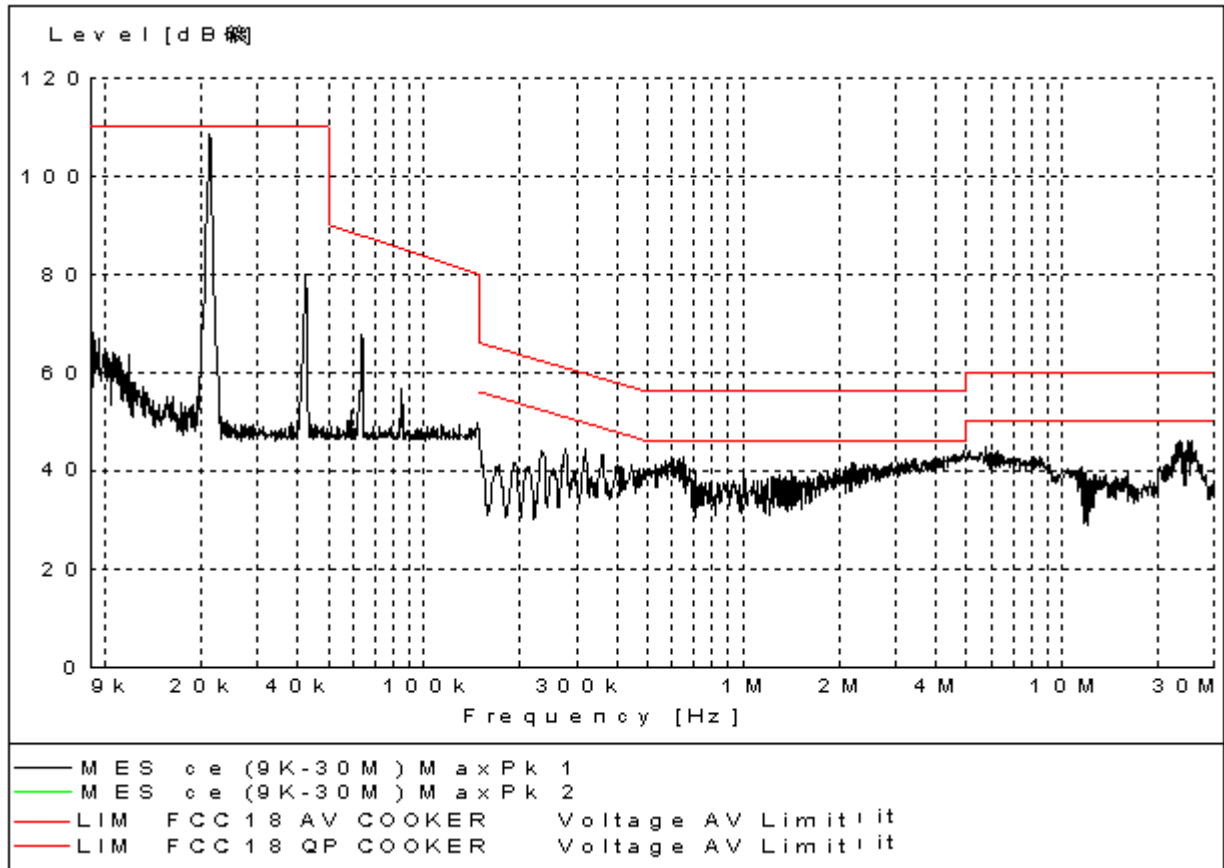
Report No.: GLEMO09050133101

Page: 38 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.7	106.4	110.0	-3.6	*	*	*	*
0.044	9.7	70.4	80.1	110.0	-29.9	*	*	*	*
0.066	9.7	60.6	70.3	87.5	-17.2	*	*	*	*
0.180	9.7	34.6	44.3	64.5	-20.2	31.6	41.3	54.5	-13.2
0.224	9.7	36.6	46.3	62.7	-16.4	30.6	40.3	52.7	-12.4
0.336	10.4	37.2	47.6	59.3	-11.7	29.9	40.3	49.3	-9.0

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

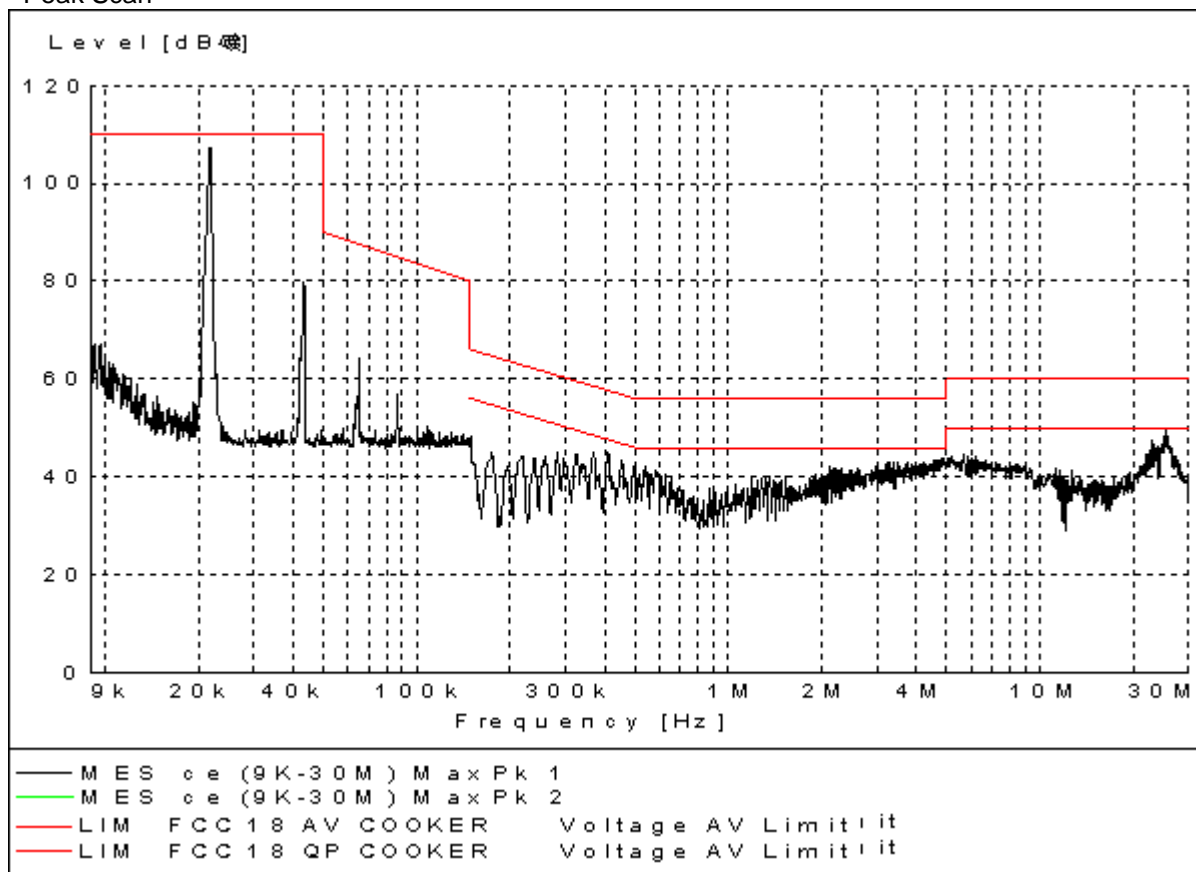
Page: 39 of 42

FCC ID:TAPMC-SKW1501

Model: MC-JEK15A

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	95.6	105.3	110.0	-4.7	*	*	*	*
0.044	9.7	80.6	90.3	110.0	-19.7	*	*	*	*
0.066	9.7	60.4	70.1	87.5	-17.4	*	*	*	*
0.382	9.7	34.6	44.3	58.2	-13.9	28.7	38.4	48.2	-9.8
0.427	9.7	36.0	45.7	57.3	-11.6	28.9	38.6	47.3	-8.7
0.472	10.4	33.1	43.5	56.5	-13.0	29.2	39.6	46.5	-6.9



SGS-CSTC Standards Technical Services Co., Ltd.

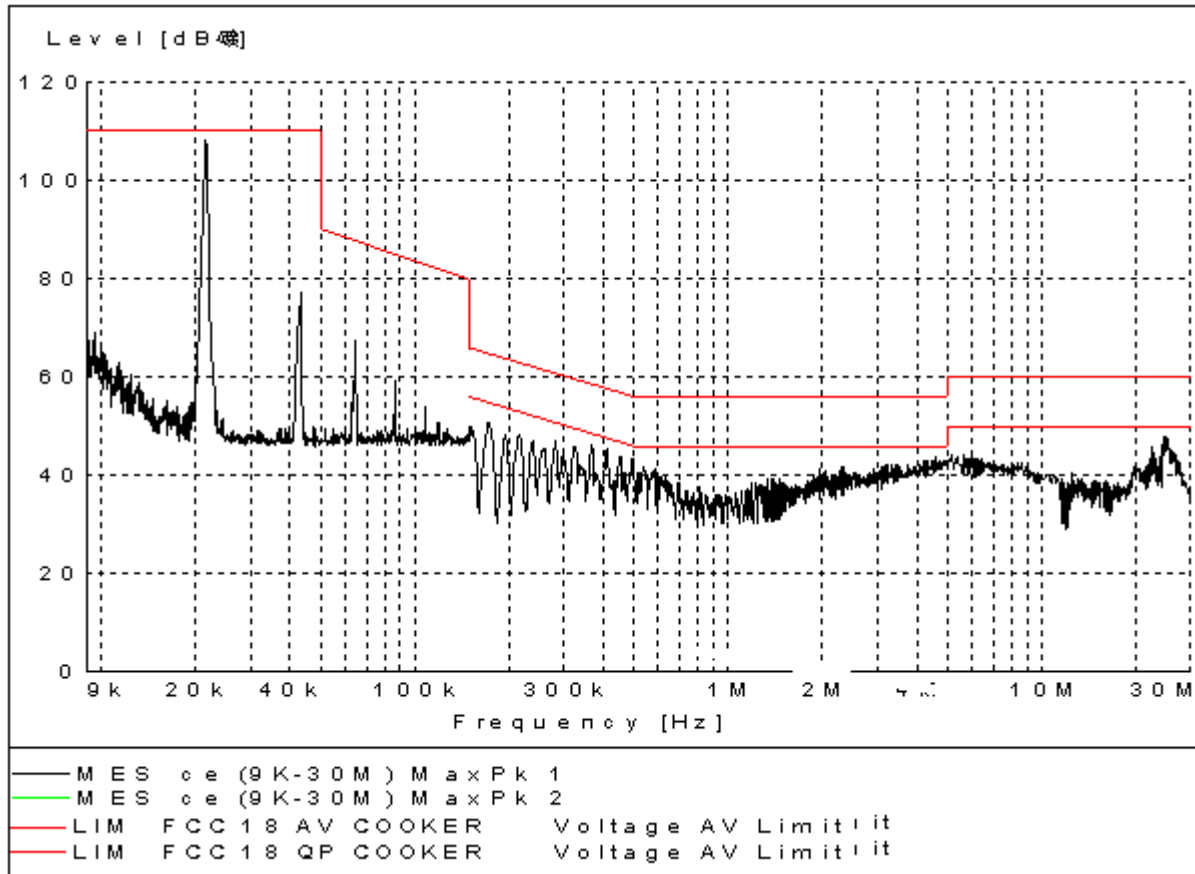
Report No.: GLEMO09050133101

Page: 40 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.6	106.3	110.0	-3.7	*	*	*	*
0.044	9.7	72.6	82.3	110.0	-27.7	*	*	*	*
0.066	9.7	55.6	65.3	87.5	-22.2	*	*	*	*
0.180	9.7	37.7	47.4	64.5	-17.1	35.0	44.7	54.5	-9.8
0.224	9.7	35.6	45.3	62.7	-17.4	31.6	41.3	52.7	-11.4
0.336	10.4	32.9	43.3	59.3	-16.0	28.0	38.4	49.3	-10.9

*: Not requested by standards.



SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09050133101

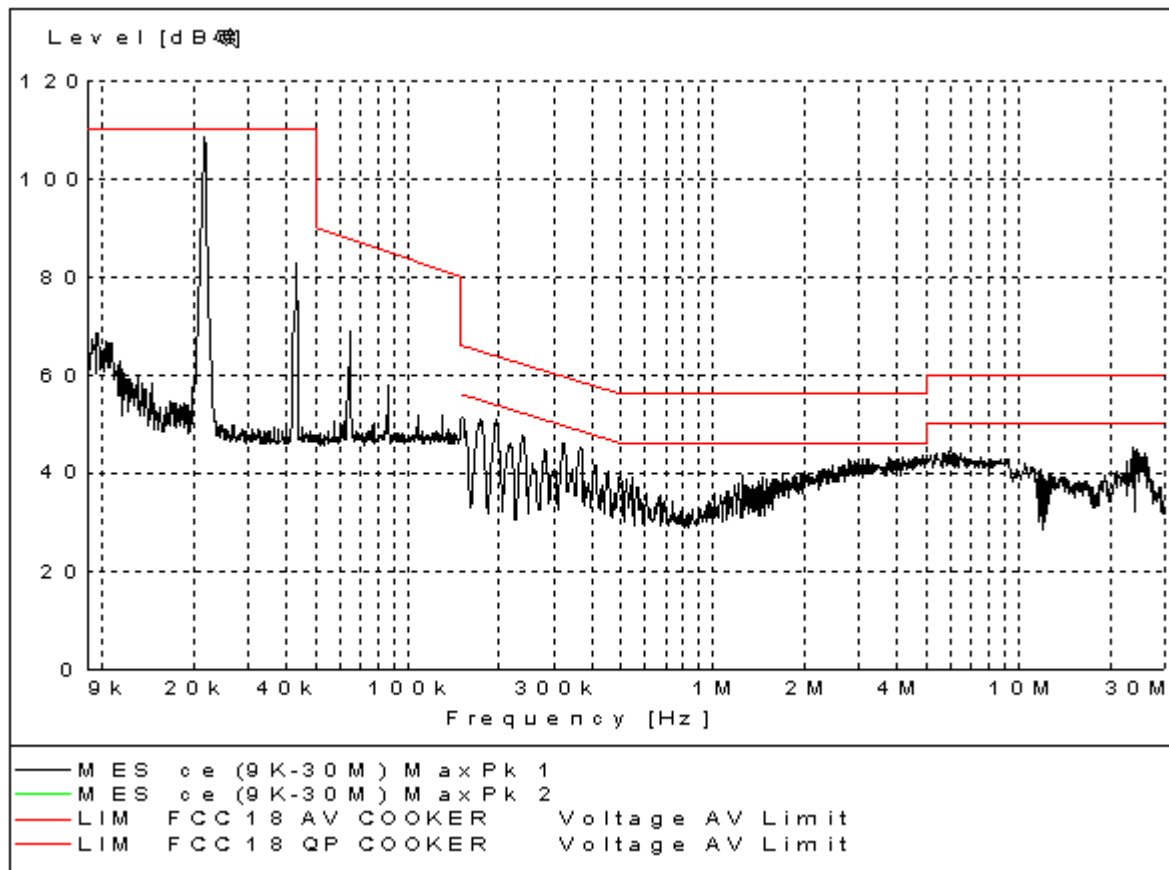
Page: 41 of 42

FCC ID:TAPMC-SKW1501

Model: MC-JEK15A

Live line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.7	106.4	110.0	-3.6	*	*	*	*
0.044	9.7	72.6	82.3	110.0	-27.7	*	*	*	*
0.066	9.7	59.1	68.8	87.5	-18.7	*	*	*	*
0.382	9.7	36.6	46.3	58.2	-11.9	26.7	36.4	48.2	-11.8
0.427	9.7	35.6	45.3	57.3	-12.0	25.6	35.3	47.3	-12.0
0.472	10.4	30.6	41.0	56.5	-15.5	23.0	33.4	46.5	-13.1



SGS-CSTC Standards Technical Services Co., Ltd.

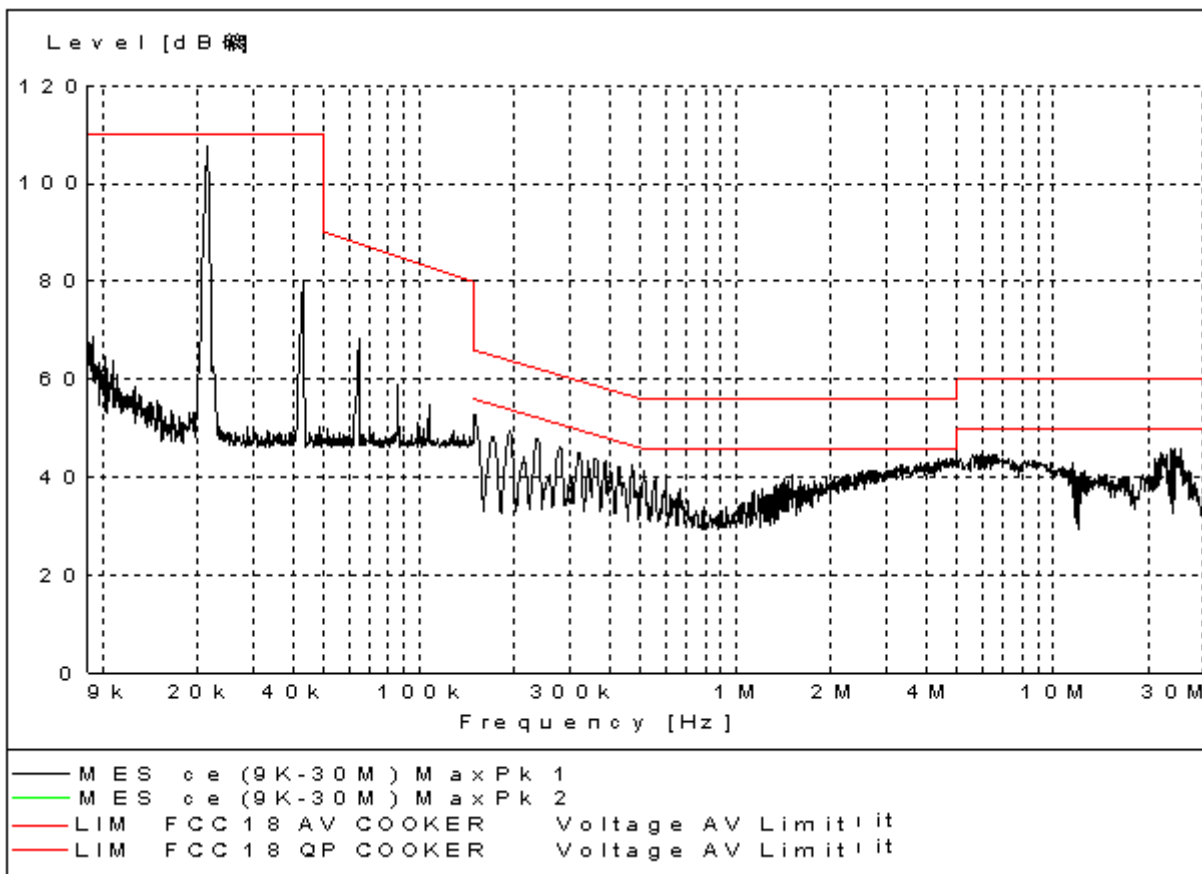
Report No.: GLEMO09050133101

Page: 42 of 42

FCC ID:TAPMC-SKW1501

Neutral line:

Peak Scan



Quasi-peak and Average measurement:

Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Over Limit (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.022	9.7	96.8	106.5	110.0	-3.5	*	*	*	*
0.044	9.7	78.6	88.3	110.0	-21.7	*	*	*	*
0.066	9.7	53.8	63.5	87.5	-24.0	*	*	*	*
0.180	9.7	37.6	47.3	64.5	-17.2	31.6	41.3	54.5	-13.2
0.224	9.7	35.4	45.1	62.7	-17.6	30.6	40.3	52.7	-12.4
0.336	10.4	33.2	43.6	59.3	-15.7	28.2	38.6	49.3	-10.7

*: Not requested by standards.