TEST REPORT

No. 2008TAR027

for

TCT Mobile Suzhou Limited

GSM850/PCS1900 mobile phone

Type: EL05A

Commercial name: GLAMPHONE ELLE A

with

Hardware Version: PIO

Software Version: V56a

Issued Date: 2008-06-26

Deutscher Akkreditierungs Rat DAR

No. **DAT-P-114/01-01**

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

TMC Beijing, Telecommunication Metrology Center of Ministry of Information Industry

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CONTENTS

1. Test Laboratory

1.1. Testing Location

Company Name:	TMC Beijing, Telecommunication Metrology Center of MII
Address:	No 52, Huayuan beilu, Haidian District, Beijing,P.R.China
Postal Code:	100083
Telephone:	00861062303288
Fax:	00861062304793

1.2. Testing Environment

Normal Temperature:	15-35℃
Relative Humidity:	20-75%

1.3. Project data

Testing Start Date:	Jun 16h, 2008
Testing End Date:	Jun 16h, 2008

1.4. Signature

Zi Xiaogang
(Prepared this test report)

Sun Xiangqian
(Reviewed this test report)

Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	TCT Mobile Suzhou Limited
Address /Post:	4F, South Building, No.2966, JinKe Road, Zhangjiang High-Tech Park Shanghai 201203, P.R.China
City:	Shanghai
Postal Code:	201203
Country:	China
Telephone:	0086-21-61460883
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2.2. Manufacturer Information

Company Name:	TCT Mobile Suzhou Limited
Address /Post:	4F, South Building, No.2966, JinKe Road, Zhangjiang High-Tech Park Shanghai 201203, P.R.China
City:	Shanghai
Postal Code:	201203
Country:	China
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM850/PCS1900 mobile phone
Model	EL05A
Commercial name:	GLAMPHONE ELLE A
FCC ID	RAD088
Hardware status	PIO
Software status	V56a
Power supply	Battery or Charger (AC Adaptor)

The GSM850/PCS1900 mobile phone, EL05A, supporting GSM850/GSM1900, manufactured by TCT Mobile Suzhou Limited is a variant of OT-C717A for the test. Only the enclosure of the EUT had been changed. So only the Radiation test should be tested. The Conducted Emission test result is coming from the OT-C717A.

Note: Photographs of EUT are shown in ANNEX A of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MII of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	011634000001431	PIO	V56a

*EUT ID: is used to identify the test sample in the lab internally.

4. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

5. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:	
P	Pass
NA	Not applicable
F	Fail

Clause	List	Clause in FCC rules	Verdict
1	Radiated Emission	15.109(a)	P
2	Conducted Emission	15.107(a)	P

6. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER
1.	Test Receiver	ESS	847151/015	R&S
2.	Test Receiver	ESI40	831564/002	R&S
3.	BiLog Antenna	3142B	9908-1403	EMCO
4.	BiLog Antenna	VUL9163	9163 175	Schwarzbeck
5.	Signal Generator	SMT06	831285/005	R&S
6.	Signal Generator	SMP04	100070	R&S
7.	LISN	ESH2-Z5	829991/012	R&S
8.	Spectrum Analyzer	E4440A	MY41000262	Agilent
9.	Universal Radio Communication Tester	CMU200	100680s	R&S
10.	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO

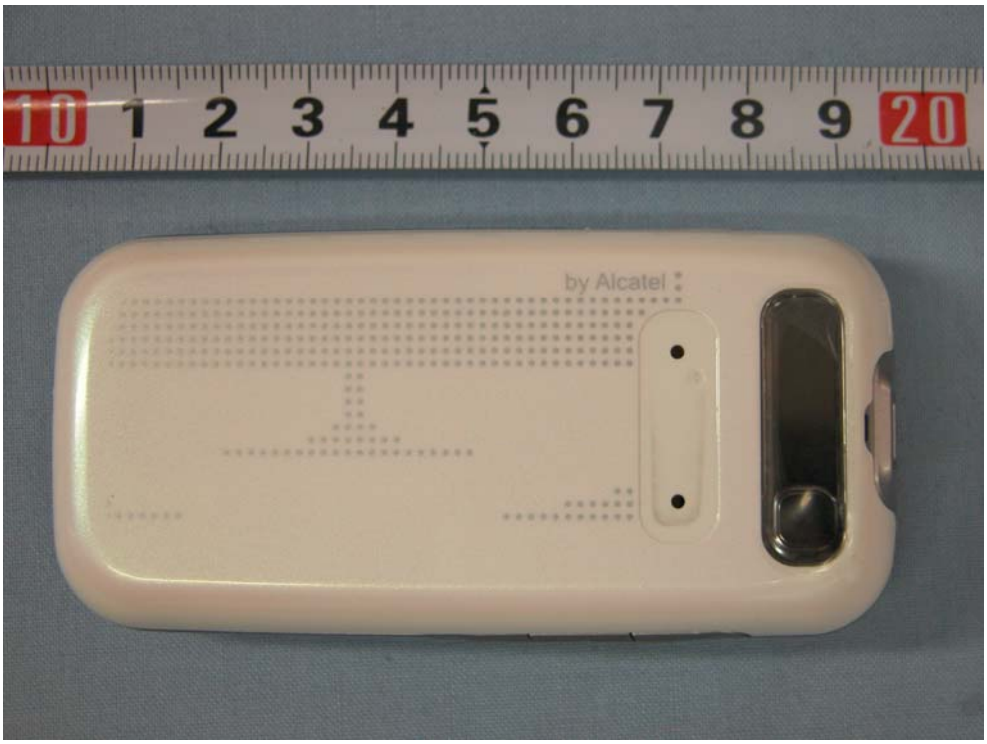
11.	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO
12.	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO
13.	Climatic chamber	SH-241	92003546	ESPEC
14.	Spectrum Analyzer	FSU26	200030	R&S
15.	Bluetooth Tester	MT8852A	6K0002698	Anritsu

ANNEX A: EUT photograph

External Photo

Mobile Phone

Mobile Phone



Mobile Phone

Charger (AC/DC Adapter)

Label of Charger (AC/DC Adapter)

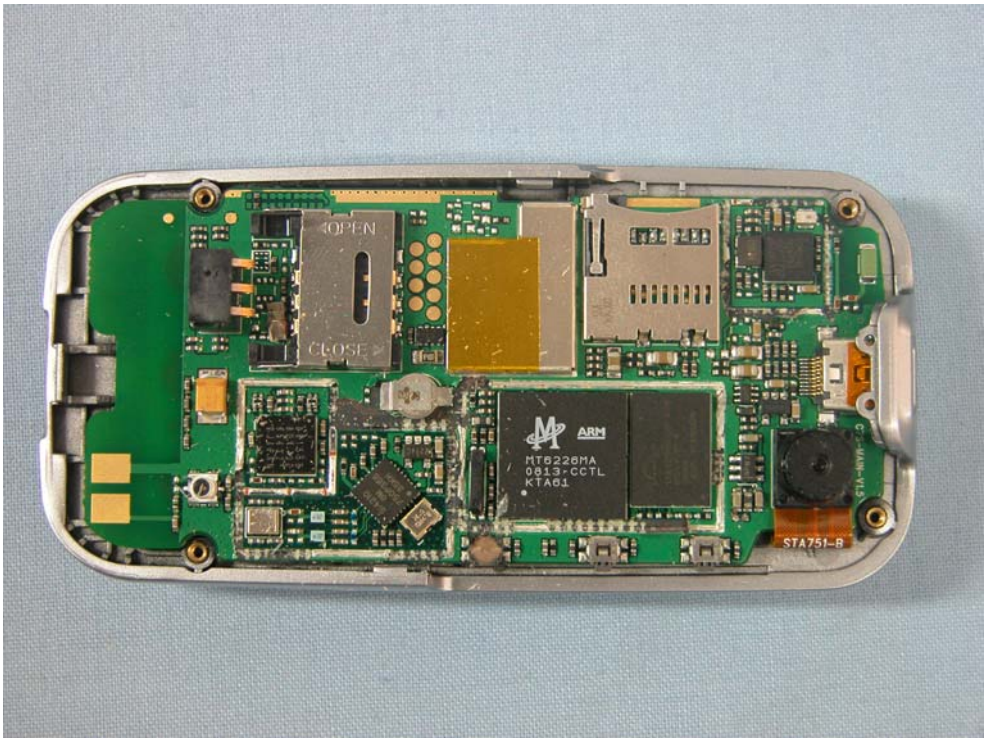
Data Cable

Battery

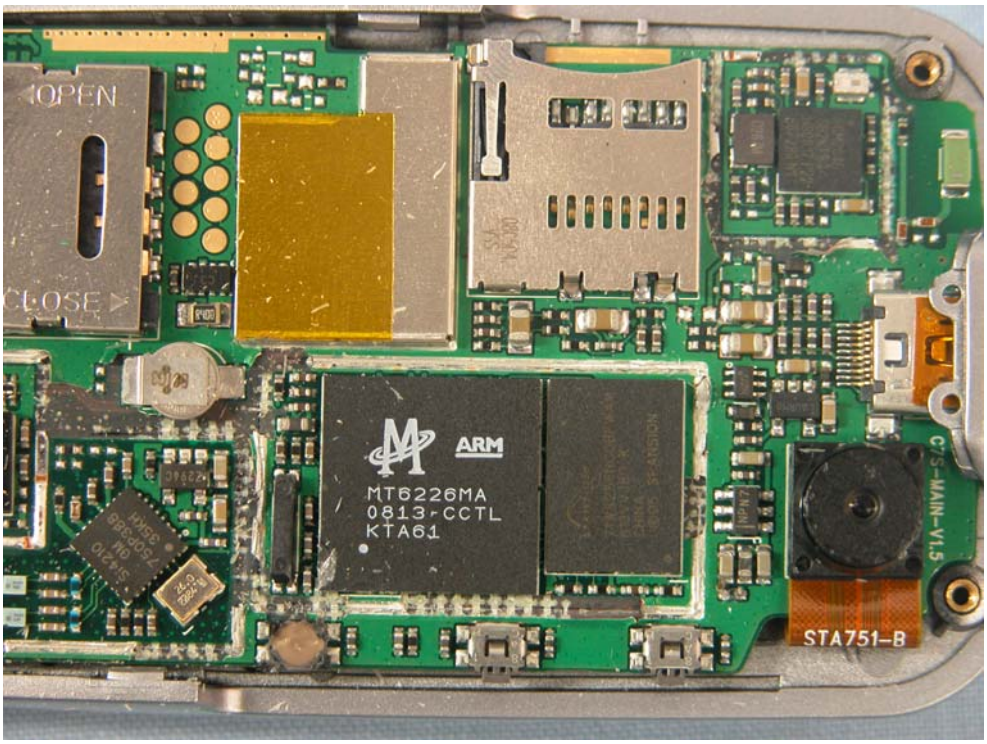
Battery

Internal Photo

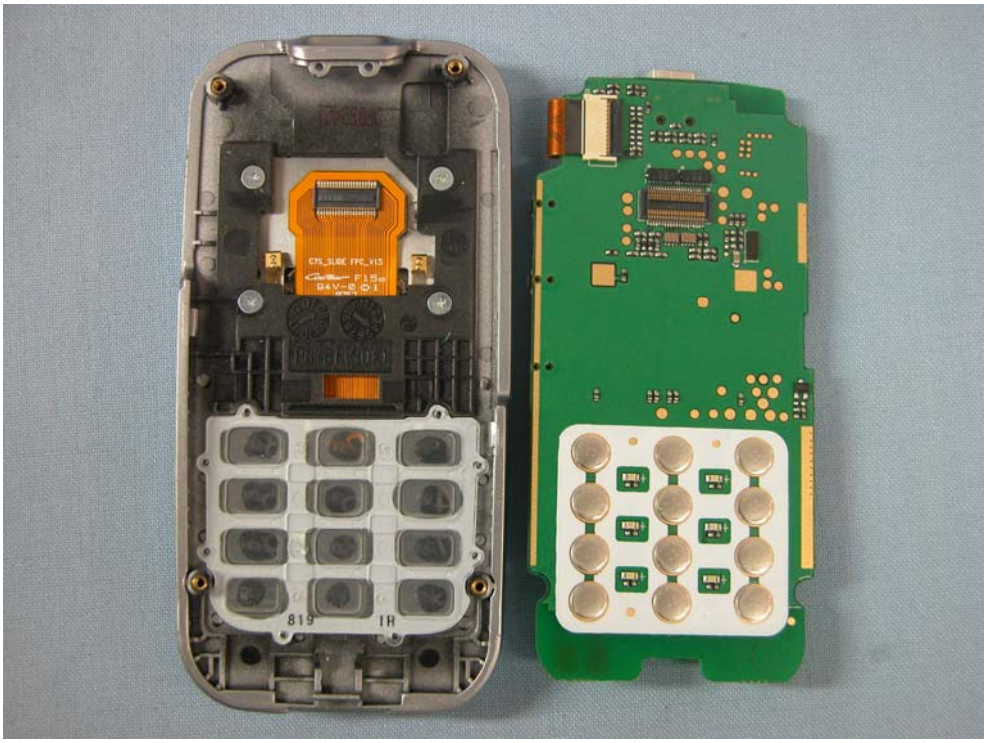
Mobile phone Disassembly



Mobile phone Disassembly



Mobile phone Disassembly



Mobile phone Disassembly

Mobile phone Disassembly

Mobile phone Disassembly

ANNEX B: MEASUREMENT RESULTS

B.1 Radiated Emission (§15.109(a))

B.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS) at a distance of 3 meters is tested. The test set-up please refers to Annex C.1.

B.1.2 EUT Operating Mode:

The MS is operating in the USB mode. During the test MS is connected to a laptop via a USB cable. The model of the laptop is IBM T42 2373-M6C, and the serial number of the laptop is 99-FV6P2. The software is used to let the laptop keep on copying data to MS, reading and erasing the data after copy action was finished.

B.1.3 Measurement Limit

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

B.1.4 Measurement Results

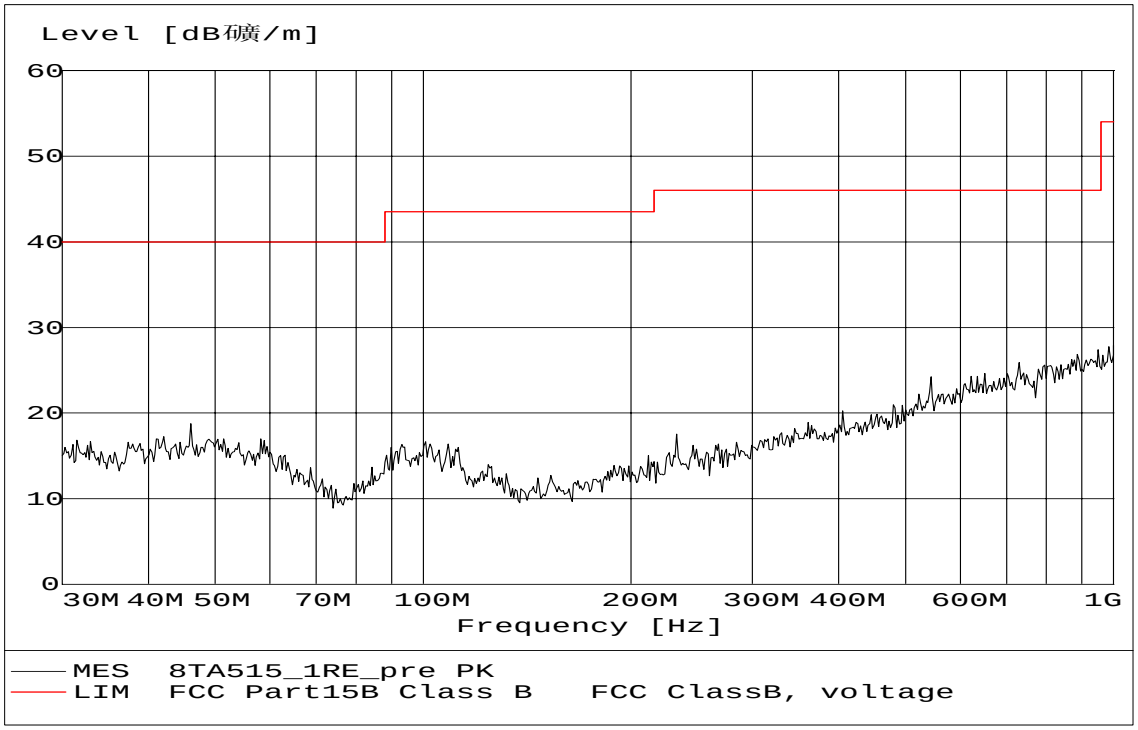


Figure B.1 Radiated Emission from 30MHz to 1GHz

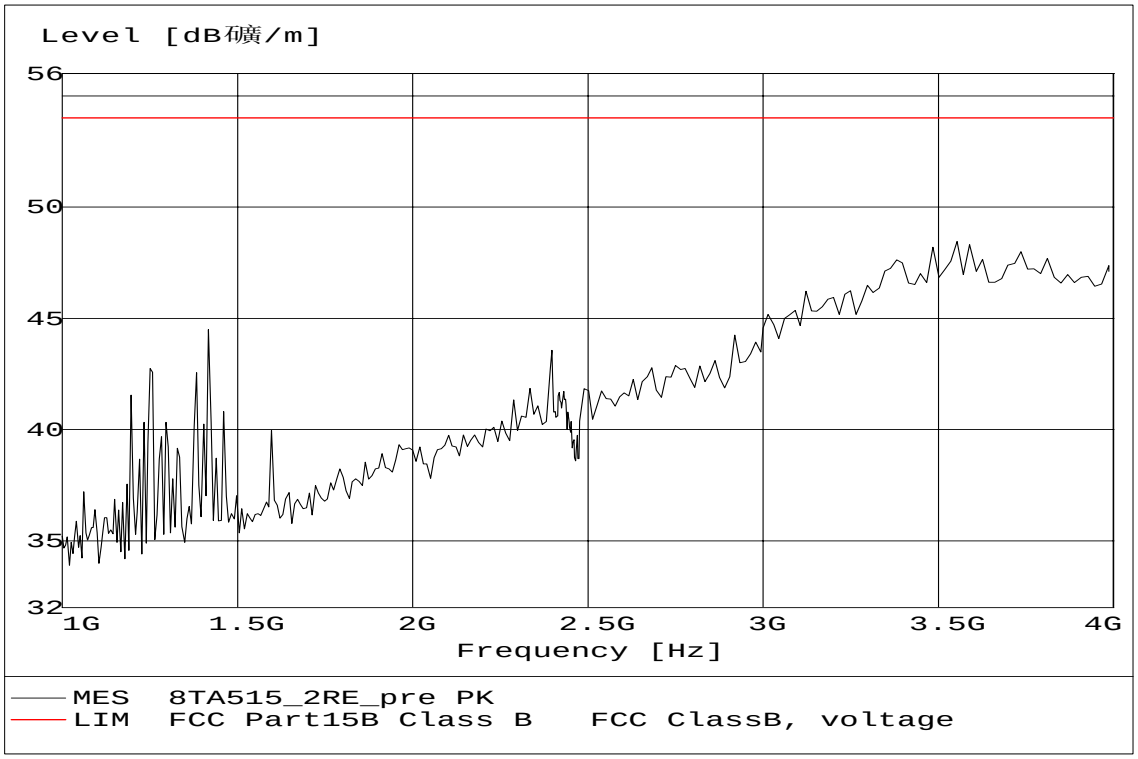


Figure B.2 Radiated Emission from 1GHz to 4GHz

B.2 Conducted Emission (§15.107(a))

B.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. The test set-up please refers to Annex C.2.

B.2.2 EUT Operating Mode:

The MS is operating in the USB mode. During the test MS is connected to a laptop via a USB cable. The model of the laptop is IBM T42 2373-M6C, and the serial number of the laptop is 99-FV6P2. The software is used to let the laptop keep on copying data to MS, reading and erasing the data after copy action was finished.

B.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

B.2.4 Measurement Results

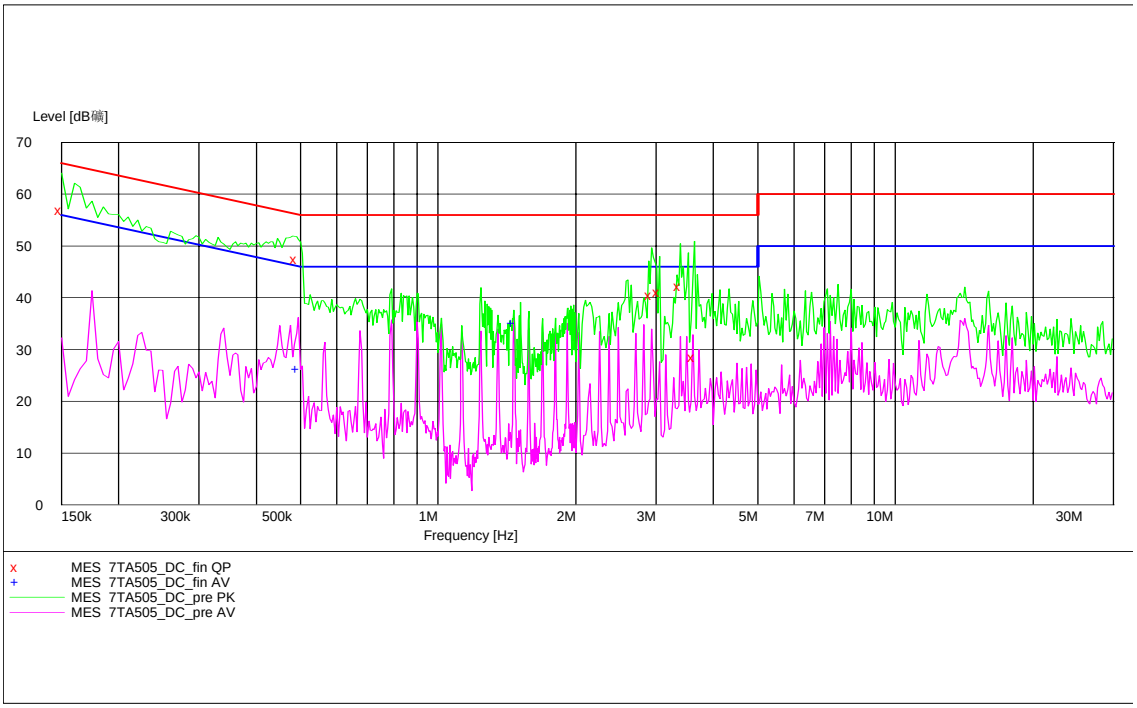


Figure A.3 Conducted Emission

MEASUREMENT RESULT: "7TA506_DC_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	56.90	10.1	66	9.1	L1	FLO
0.490000	47.40	10.1	56	8.8	N	FLO
2.931808	40.60	10.1	56	15.4	L1	GND
3.050972	41.10	10.1	56	14.9	N	GND
3.383959	42.30	10.1	56	13.7	N	GND
3.635548	28.60	10.1	56	27.4	N	FLO

MEASUREMENT RESULT: "7TA506_DC_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.495000	26.30	10.1	46	19.8	L1	FLO
1.465000	35.20	10.1	46	10.8	L1	GND

ANNEX C: TEST LAYOUT

Pic C-1 Radiated Spurious Emission

Pic C-2 Conducted Emission

*****END OF REPORT*****