

FCC COMPLIANCE REPORT

For

PC wired controller

Model Number: 26-1519

Prepared for : Maxwise Production Enterprise Limited

Address : No.1 Henghai Road, South District, ZhongShan,
: GuangDong. China

Prepared By : Foshan ATC Lab Co., Ltd

Address : 205#, Yingfeng Building, Ronggu Rd,
Ronggui, Shunde, Foshan, Guangdong, China.

Report Number : DHN-0911-1602-EMC

Date of Test : Nov. 13, 2009

Date of Report : Nov. 16, 2009

Test Results:

The equipment under test was found to be compliance with the requirements of the standards applied.

Prepared By:



Approved By:



Index of the test report:

1	Summary Emission	3
2	General information	4
2.1	Description of Equipment under test (EUT)	4
2.2	Client Information	4
2.3	Measurement Uncertainty	4
2.4	Test Voltage and Frequency:.....	4
2.5	Test Mode (TM).....	4
2.6	Main Auxiliary Equipments list as below:	4
2.7	Testing location	4
2.8	Climatic conditions	4
2.9	Lab Registration.....	5
3	Measurement of conducted emission	6
3.1	Standards	6
3.2	Measurement equipment	6
3.3	Test procedure:	6
3.4	Test result	6
3.5	Diagrams and tables	7
3.5.1	Diagram 001.....	7
3.5.2	Table 2	7
3.5.3	Diagram 003.....	8
3.5.4	Table 004	8
4	Measurement of radiated emission.....	9
4.1	Standards	9
4.2	Measurement equipment	9
4.3	Test Procedure:.....	9
4.4	Test result	9
4.5	Diagrams and tables	10
4.5.1	Diagram 005.....	10
4.5.2	Table 006	10
4.5.3	Diagram 007.....	11
4.5.4	Table 008	11
5	EUT External Photo	错误！未定义书签。
6	EUT Internal Photo	错误！未定义书签。
7	EUT Test Setup Photo	错误！未定义书签。

1 Summary Emission

Environmental phenomena	Port / Test module	Basic standard and test setup	Limit class	Result
Conducted emission	Input AC power ports	FCC Part 15:2008	15.107	Pass
Radiated emission	Enclosure	FCC Part 15:2008	15.109	Pass

2 General information

2.1 Description of Equipment under test (EUT)

EUT Name: PC wired controller

Model Name: 26-1519

Input: DC 5V, 50/60Hz

Power: By PC USB Port

2.2 Client Information

Applicant: Maxwise Production Enterprise Limited

Address: No.1 Henghai Road, South District, ZhongShan, GuangDong, China

2.3 Measurement Uncertainly

Radiated Emission Test : 30MHz-1000MHz 3.64dB

Conducted Emission Test : 0.15MHz-30MHz 2.54dB

2.4 Test Voltage and Frequency:

120VAC 60Hz

2.5 Test Mode (TM)

Connected with PC and playing game mode.

2.6 Main Auxiliary Equipments list as below:

	Equipment	Type	Manufacturer	Lines	FCC DoC/ID
<input checked="" type="checkbox"/>	PC	8179	LENOVO		DoC
<input checked="" type="checkbox"/>	Monitor	HSTND-2391-A(W1707)	AOC	Power Cord Unshielded 1.6 m Data Cable Unshielded 1.7 m	DoC
<input checked="" type="checkbox"/>	Keyboard	MOBJKO	HP	Data Cable Unshielded 1.8 m	DoC
<input checked="" type="checkbox"/>	Print	B161A	HP	Power Cord Unshielded 1.5 m Data Cable Unshielded 1.8 m	DoC
<input checked="" type="checkbox"/>	Mouse	5187	HP	Data Cable Unshielded 1.6 m	DoC

2.7 Testing location

Foshan ATC Lab Co., Ltd

205#, Yingfeng Building, Ronggu Rd, Ronggui, Shunde, Foshan, Guandong, China.

2.8 Climatic conditions

parameter	admissible range	actual range	Result
Ambient temperature	15 °C - 35 °C	24-26°C	OK
Relative humidity	30 % - 60 %	48-52%	OK
Atmospheric pressure	86-106kPa	101kPa	OK

2.9 Lab Registration

FCC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) 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 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on Oct. 29th, 2008.

3 Measurement of conducted emission

3.1 Standards

Test standard	FCC Part 15
Limit class	Class B, 15.107
Date of testing	2009-11-13

3.2 Measurement equipment

	Equipment	Cal. Due Date	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Shielding Room	2010-05-27	N/A	N/A	ETS
<input checked="" type="checkbox"/>	Receiver	2010-07-08	SMR4503	11725	SCHAFFNER
<input checked="" type="checkbox"/>	Line impedance stabilization network	2010-07-08	4825/2	1161	ETS

3.3 Test procedure:

The test set-up was realized in a shielded chamber according to the above-mentioned standard. If more details are necessary, e.g. because of wiring or auxiliary equipment.

The test has been performed as following:

The EUT was placed on the top of an insulating table 0.8 meters above the ground at a shielded room. The EUT was placed 0.4 meters from the conducting wall of shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). The LISN provide 50Ohm/50μH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. The frequency range from 150kHz to 30MHz was searched. The worst-case emissions are reported.

The bandwidth of test receiver is set at 9kHz.

3.4 Test result

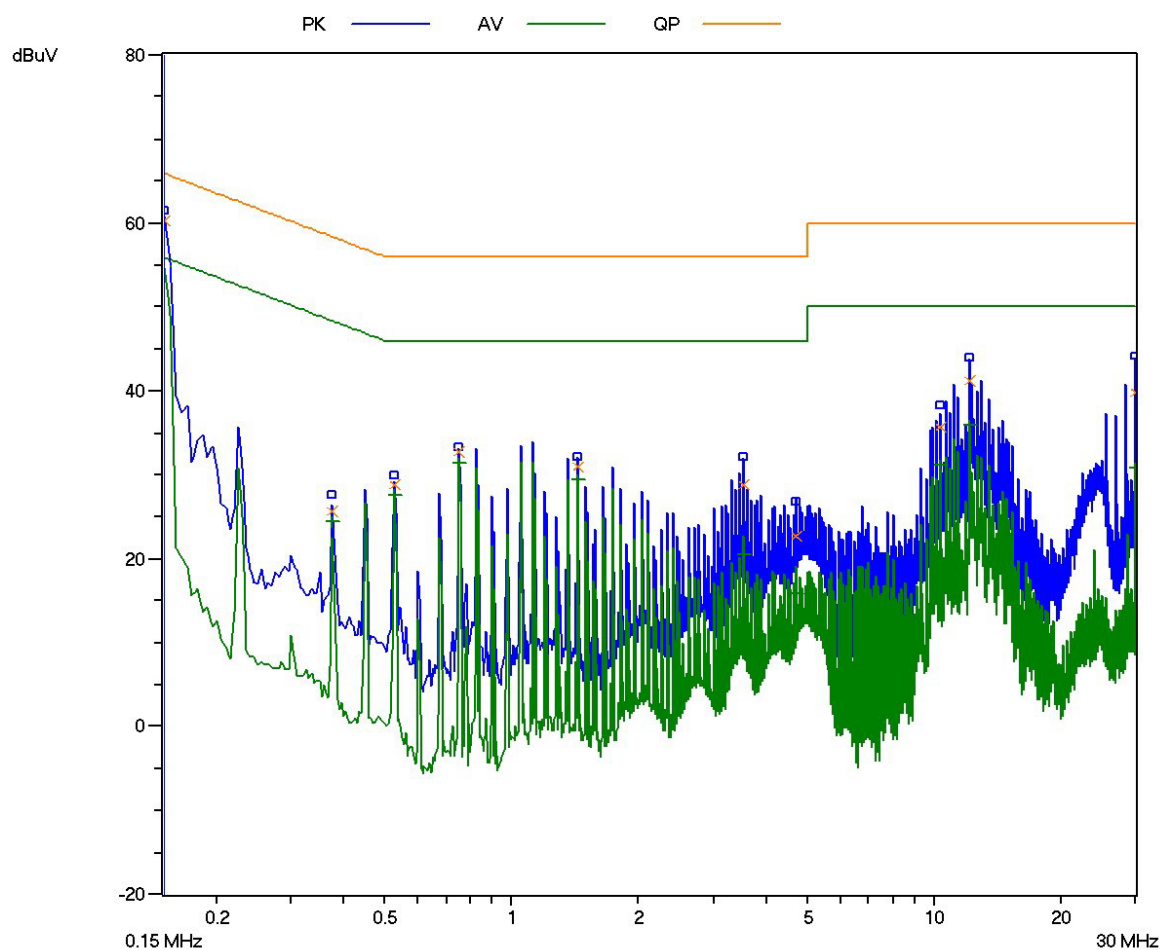
Power ports

AC input

Mode	Diagram	Remarks	Result
TM 1	Diagram 001 ,table 002	Line L	Pass
	Diagram 003 ,table 004	Line N	Pass

3.5 Diagrams and tables

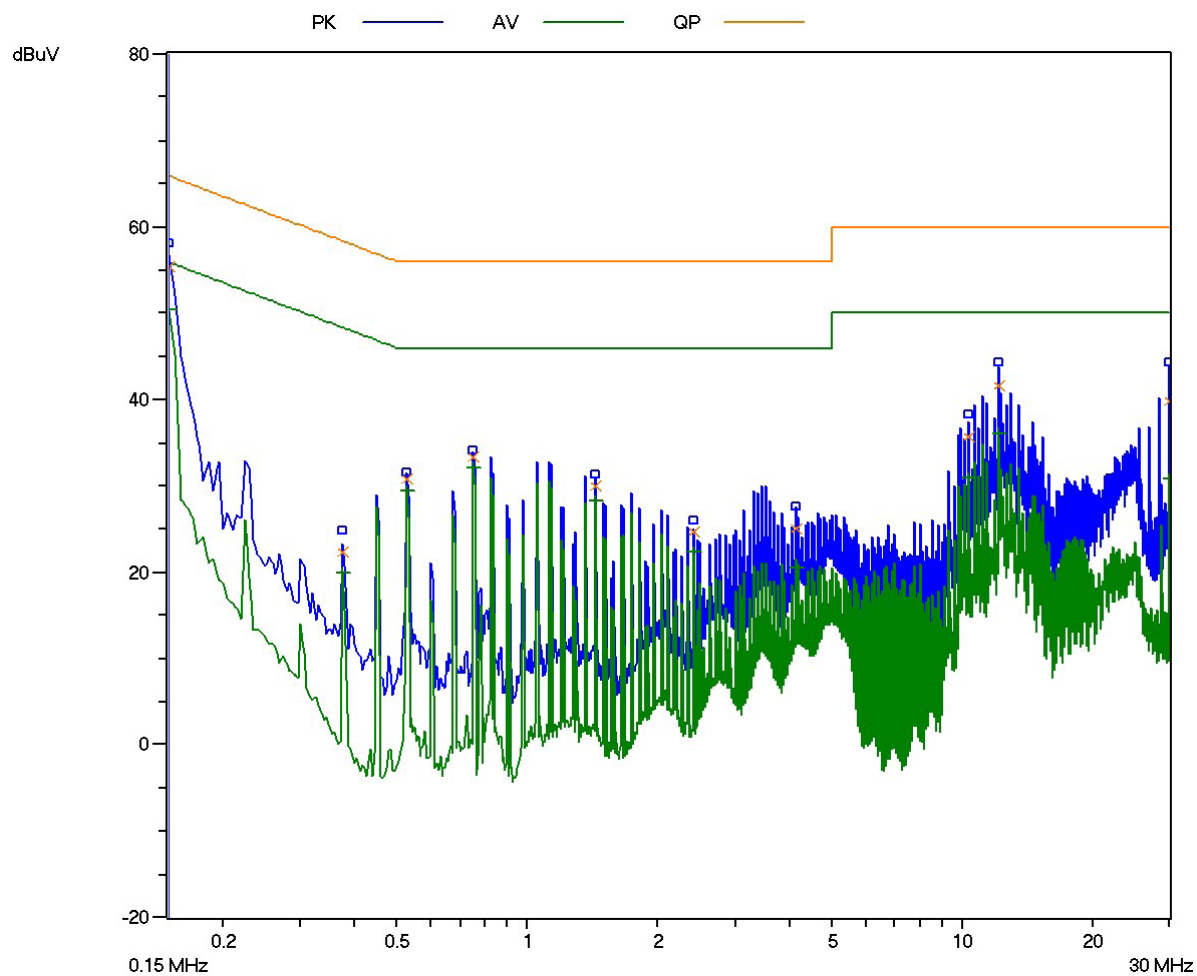
3.5.1 Diagram 001



3.5.2 Table 2

Frequency MHz	Level Pk dBμV	Level AV dBμV	Level QP dBμV	Limit AV dBμV	Limit QP dBμV	Result
0.150	61.4	51.9	60.3	55.9	65.9	Pass
0.375	27.6	24.5	25.8	48.4	58.4	Pass
0.525	29.9	27.6	28.8	46.0	56.0	Pass
0.750	33.3	31.5	32.8	46.0	56.0	Pass
1.425	32.2	29.4	31.1	46.0	56.0	Pass
3.525	32.1	20.6	28.9	46.0	56.0	Pass
4.725	26.9	15.8	22.6	46.0	56.0	Pass
10.385	38.2	31.2	35.8	50.0	60.0	Pass
12.205	44.0	35.9	41.1	50.0	60.0	Pass
30.000	44.1	30.8	39.8	50.0	60.0	Pass

3.5.3 Diagram 003



3.5.4 Table 004

Frequency MHz	Level Pk dBμV	Level AV dBμV	Level QP dBμV	Limit AV dBμV	Limit QP dBμV	Result
0.150	58.2	50.4	55.4	55.9	65.9	Pass
0.375	25.0	20.0	22.3	48.4	58.4	Pass
0.525	31.6	29.4	30.7	46.0	56.0	Pass
0.750	34.1	32.1	33.4	46.0	56.0	Pass
1.425	31.3	28.2	30.1	46.0	56.0	Pass
2.405	26.1	22.3	24.6	46.0	56.0	Pass
4.130	27.6	20.6	25.0	46.0	56.0	Pass
10.385	38.3	31.1	35.7	50.0	60.0	Pass
12.205	44.4	36.1	41.5	50.0	60.0	Pass
30.000	44.4	30.9	39.9	50.0	60.0	Pass

4 Measurement of radiated emission

4.1 Standards

Test standards	FCC Part 15
Basic Standards	ANSI C63.4 2003.
Limit class	Class B, 15.109
Date of testing	2009-11-13

4.2 Measurement equipment

	Equipment	Cal. Due Date	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Semi-anechoic Chamber	2010-05-25	N/A	N/A	ETS
<input checked="" type="checkbox"/>	Receiver	2010-07-08	SMR4503	11725	SCHAFFNER
<input checked="" type="checkbox"/>	Biconilog Antenna	2010-09-26	3142C	00042672	ETS

4.3 Test Procedure:

The EUT has been tested according to the standard ANSI C63.4, as following:

The EUT was placed on the top of an insulating table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna is a broadband antenna, and its height is varied from 1 to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the heights from 1 to 4 meters and the rotate table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detector Function and Specified Bandwidth with Maximum Hold Mode.

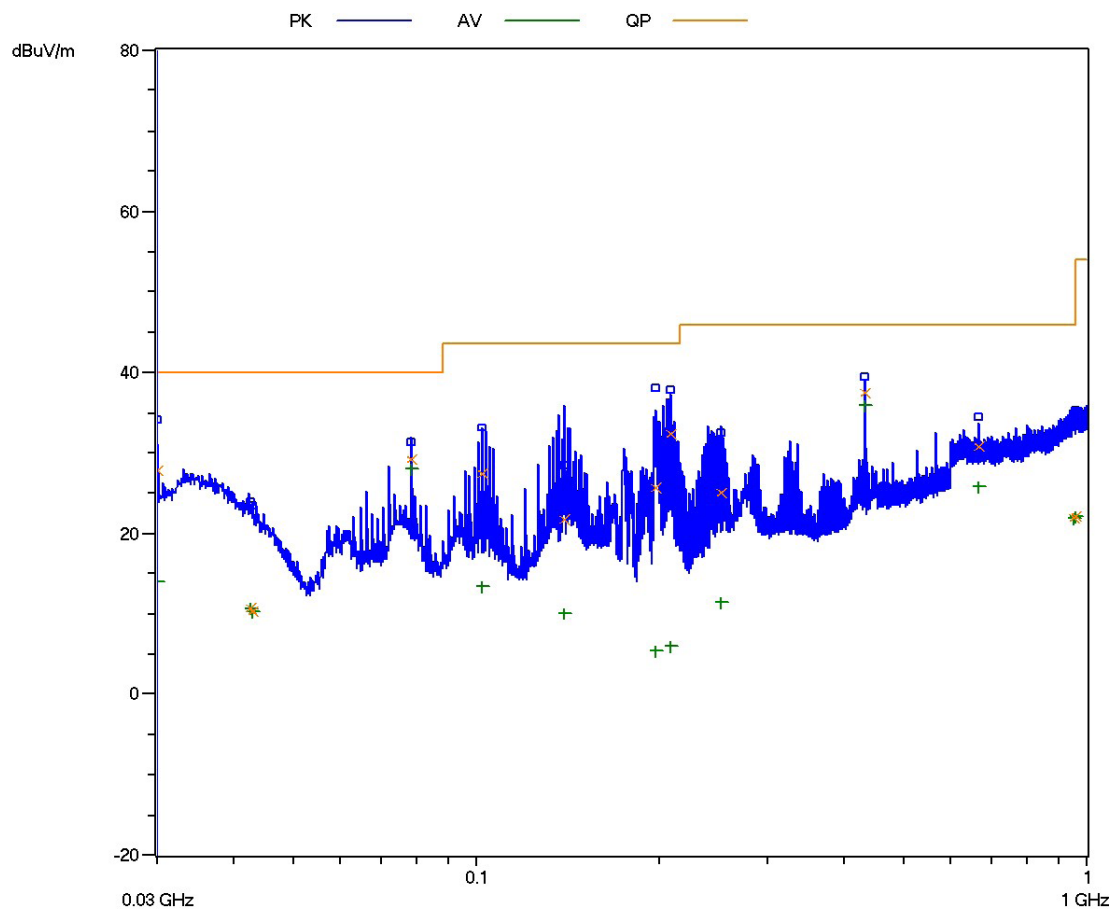
Measurements in both horizontal and vertical polarities were made and the data was recorded. RBW=120 kHz; VBW=300KHz. The frequency range from 30MHz to 1000MHz is checked. The test result are reported as below.

4.4 Test result

Mode	Diagram and table	Remarks	Result
TM1	Diagram 005, table 006	Horizontal	Pass
TM1	Diagram 007, table 008	Vertical	Pass

4.5 Diagrams and tables

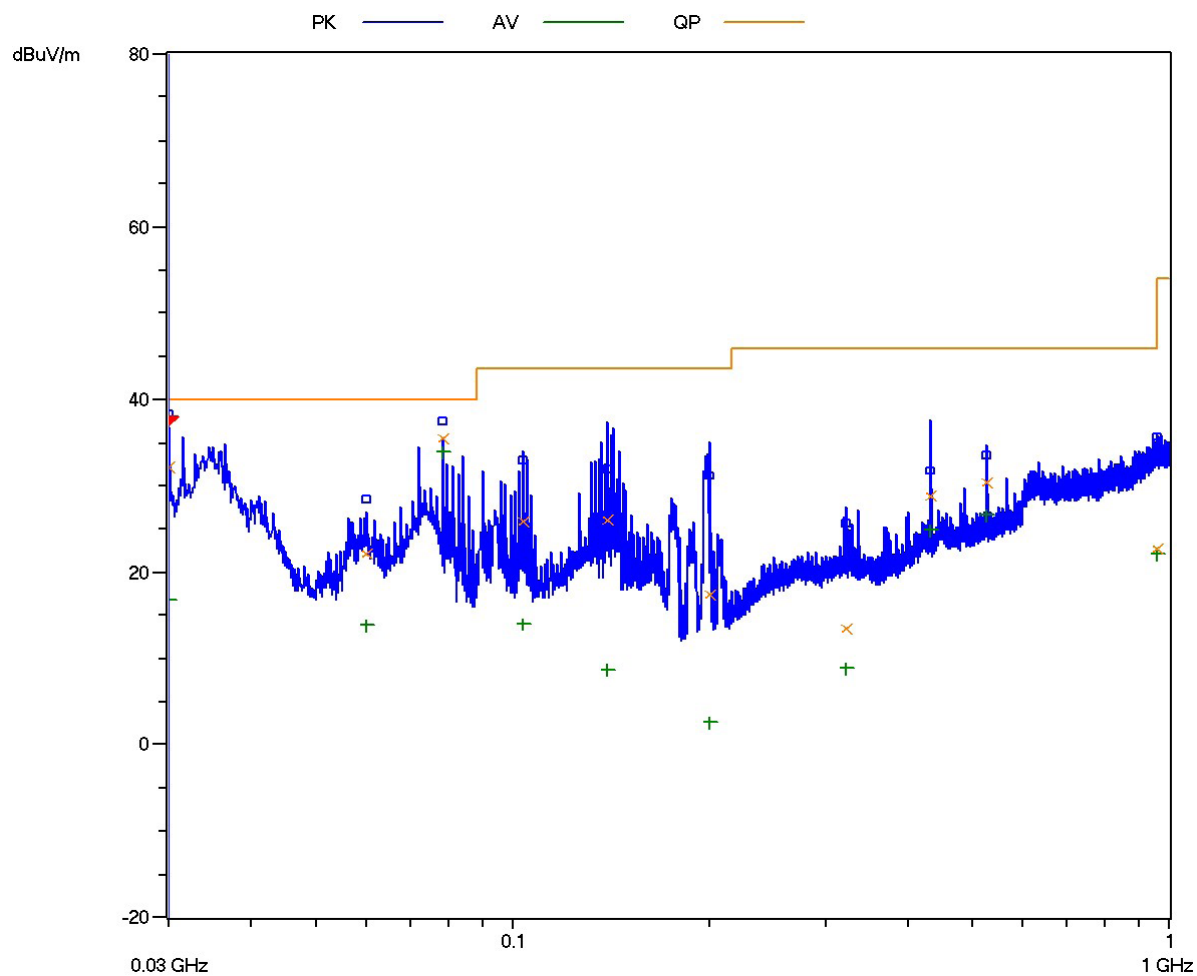
4.5.1 Diagram 005



4.5.2 Table 006

Frequency MHz	Level Pk dBuV/m	Level AV dBuV/m	Level QP dBuV/m	Limit QP dBuV/m	Result
30.000	34.0	14.1	27.9	40.0	Pass
42.640	23.8	10.6	10.6	40.0	Pass
42.880	23.4	10.3	10.3	40.0	Pass
78.000	31.3	28.0	29.3	40.0	Pass
102.000	33.1	13.4	27.4	43.5	Pass
139.520	28.3	10.0	21.7	43.5	Pass
196.480	38.0	5.3	25.7	43.5	Pass
208.480	37.9	6.0	32.3	43.5	Pass
252.000	32.5	11.6	25.1	46.0	Pass
432.000	39.4	35.8	37.5	46.0	Pass
666.640	34.5	25.9	30.7	46.0	Pass
949.760	34.6	21.9	21.9	46.0	Pass
959.920	35.3	22.1	22.1	46.0	Pass

4.5.3 Diagram 007



4.5.4 Table 008

Frequency MHz	Level Pk dBμV/m	Level AV dBμV/m	Level QP dBμV/m	Limit QP dBμV/m	Result
30.000	38.3	16.8	32.3	40.0	Pass
60.000	28.4	13.9	22.2	40.0	Pass
78.000	37.5	34.0	35.5	40.0	Pass
103.520	33.0	14.1	25.8	43.5	Pass
139.520	32.1	8.7	26.1	43.5	Pass
198.880	31.1	2.7	17.4	43.5	Pass
321.760	25.6	8.9	13.4	46.0	Pass
432.000	31.7	24.9	28.8	46.0	Pass
528.000	33.5	26.7	30.3	46.0	Pass
958.160	35.8	22.1	22.7	46.0	Pass

--- End ---