

 Prüfbericht-Nr.:
 17057902 001
 Auftrags-Nr.:
 Order No.:
 164056241
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Kunden-Referenz-Nr.:
Client Reference No.:

449086

Auftragsdatum:
Order date.:

10 Mar. 2016

Auftraggeber: AQUIL STAR PRECISION INDUSTRIAL (SHENZHEN) CO., LTD.

Client:

BUILDING A AND B, THE NO.4 OF
TENGFENG THIRD ROAD, FENGHUANG
THIRD INDUSTRY, FUYONG TOWN

BAOAN ZONE, SHENZHEN CITY

P.R. China

**Prüfgegenstand:** *Test item:*SWITCHING ADAPTER

**Bezeichnung / Typ-Nr.:** *Identification / Type No.:*ASSA75z-050yyy, PCx-050yyy (Details refer to section 3.1)

Auftrags-Inhalt:
Order content:

TUV Rheinland - EMC service

**Prüfgrundlage:**Test specification: FCC Part 15 Subpart B:2014

**Wareneingangsdatum:**Date of receipt: 25 February 2016

**Prüfmuster-Nr.:** *Test sample No.:*EST-E16012508

**Prüfzeitraum:** *Testing period:*Refer to test report

Ort der Prüfung:

Place of testing:

Refer to section 2.1

**Prüflaboratorium:** TÜV Rheinland (Shenzhen)

Testing laboratory: Co., Ltd.

**Prüfergebnis\*:**Test result\*:

0 01 02 02 05 00 01 00 00 001 01 02

0 01 02 02 05 05 05 03 04 00 00 001

0 01 02 02 05 05 05 03 04 07 08 06 001

geprüft von / tested by: kontrolliert von / reviewed by:

11.04.2016 Tiger Su

Tiger Su 11.04.2015 Felix Tao
Senior Project Engineer Senior Project Engineer

 Datum
 Name/Stellung
 Unterschrift
 Datum
 Name/Stellung
 Unterschrift

 Date
 Name/Position
 Signature
 Date
 Name/Position
 Signature

Sonstiges I Other:

**Zustand des Prüfgegenstandes bei Anlieferung:** Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery:

Test item complete and undamaged

1 = sehr gut 4 = ausreichend Legende: 2 = qut3 = befriedigend 5 = mangelhalt P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/T = nicht getestet N/A = nicht anwendbar Legend: 3 = satisfactory 4 = sufficient 1 = very good 2 = good5 = poorP(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicableN/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.





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### **TEST SUMMARY**

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.2.1 RADIATED EMISSION (30 - 1000MHz)

RESULT: Pass

5.2.2 RADIATED EMISSION (1 – 6GHz)

Not Applicable



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### 1 General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

### 2 Test Sites

#### 2.1 Test Facilities

EST Technology Co., Ltd. Santun(guantai Road), Houjie Town, DongGuan City, GuangDong, China

The tests at the test site have been conducted under the supervision of a TÜV engineer.





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### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment** 

Kind of Equipment	Manufacturer	Туре	S/N	Calibrated until							
Mains Terminal Disturbance Voltage (EST)											
EMI Test Receiver	R&S	ESHS30	832354	28 Jun 16							
Artificial Mains Network	R&S	ENV216	101260	28 Jun 16							
Pulse Limiter	R&S	ESH3-Z2	101100	28 Jun 16							
Radiated Emission (EST)											
EMI Test Receiver	R&S	ESVS10	100004	28 Jun 16							
Spectrum Analyzer	Agilent	E4411B	MY50140697	28 Jun 16							
Bilog Antenna	Teseq	CBL 6111D	25872	28 Jun 16							
Signal Amplifier	Agilent	310N	187037	28 Jun 16							
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D10	28 Jun 16							
			02								
Signal Amplifier	SCHWARZBECK	9718-212	9718-212	28 Jun 16							
Spectrum Analyzer	Agilent	E4408B	MY44211139	28 Jun 16							



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### 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

#### 2.4 Calibration

All equipment requiring calibration is calibrated periodically by the manufacturer or accredited calibration services according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

### 2.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC17025 are:

**Table 2: Measurement Uncertainty** 

It	Extended Uncertainty	
Conducted Emission (0.15-30MHz)	Disturbance Voltage (dBuV)	U=2.54dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	Field strength (dBuV/m)	U=3.62dB, k=2, σ=95%

### 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Shenzhen) file for certification follow-up purposes.

### 2.7 Status of Facility Used for Testing

The 'EST Technology Co., Ltd.' test facility located at 'Santun (guantai Road), Houjie Town, DongGuan City, GuangDong, China' is listed on the US Federal Communications Commission list of facilities approved to perform measurements, whose registration number is 989591.



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### 3 General Product Information

#### 3.1 Product Function and Intended Use

The **EUTs** (**E**quipment **U**nder **T**est) are switching adapters.

All models are identical to each other except input plug and output type.

Model No.: ASSA75z-050yyy, PCx-050yyy

(Input: 100-240V~50/60Hz, 1.2A, Output: 5.0Vdc, 100-5400mA, Max. 27.0W;

yyy=010-540 indicates rated output current range 100-5400mA, step 10mA;

z=a2, means fixed America plug, 2 USB output ports; z=a3, means fixed America plug, 3 USB output ports; z=a4, means fixed America plug, 4 USB output ports; z=A3, means fixed America plug, 2 USB output ports+one cable output; z=a3c, means fixed America plug, 2 USB output ports+1 type C output; z=A3c, means fixed America plug, 1 USB output port+1 type C output+1 cable output;

z=b2, means fixed United Kingdom plug, 2 USB output ports; z=b3, means fixed United Kingdom plug, 3 USB output ports; z=b4, means fixed United Kingdom plug, 4 USB output ports; z=B3, means fixed United Kingdom plug, 2 USB output ports+one cable output; z=b3c, means fixed United Kingdom plug, 2 USB output ports+1 type C output; z=B3c, means fixed United Kingdom plug, 1 USB output port+1 type C output+1 cable output;

z=c2, means fixed Australia plug, 2 USB output ports; z=c3, means fixed Australia plug, 3 USB output ports; z=c4, means fixed Australia plug, 4 USB output ports; z=C3, means fixed Australia plug, 2 USB output ports+one cable output; z=c3c, means fixed Australia plug, 2 USB output ports+1 type C output; z=C3c, means fixed Australia plug, 1 USB output port+1 type C output+1 cable output;

z=d2, means fixed Argentina plug, 2 USB output ports; z=d3, means fixed Argentina plug, 3 USB output ports; z=d4, means fixed Argentina plug, 4 USB output ports; z=D3, means fixed Argentina plug, 2 USB output ports+one cable output; z=d3c, means fixed Argentina plug, 2 USB output ports+1 type C output; z=D3c, means fixed Argentina plug, 1 USB output port+1 type C output+1 cable output;

z=e2, means fixed Europe plug, 2 USB output ports; z=e3, means fixed Europe plug, 3 USB output ports; z=e4, means fixed Europe plug, 4 USB output ports; z=E3, means fixed Europe plug, 2 USB output ports+one cable output; z=e3c, means fixed Europe plug, 2 USB output ports+1 type C output; z=E3c, means fixed Europe plug, 1 USB output port+1 type C output+1 cable output;

z=f2, means fixed Korea plug, 2 USB output ports; z=f3, means fixed Korea plug, 3 USB output ports; z=f4, means fixed Korea plug, 4 USB output ports; z=F3, means fixed Korea plug, 2 USB output ports+one cable output; z=f3c, means fixed Korea plug, 2 USB output ports+1 type C output; z=F3c, means fixed Korea plug, 1 USB output port+1 type C output+1 cable output;

z=g2, means fixed Japan plug, 2 USB output ports; z=g3, means fixed Japan plug, 3 USB output ports; z=g4, means fixed Japan plug, 4 USB output ports; z=G3, means fixed Japan plug, 2 USB output ports+one cable output; z=g3c, means fixed Japan plug, 2 USB output ports+1 type C output; z=G3c, means fixed Japan plug, 1 USB output port+1 type C output+1 cable output;

z=h2, means fixed Mexico plug, 2 USB output ports; z=h3, means fixed Mexico plug, 3 USB output ports; z=h4, means fixed Mexico plug, 4 USB output ports; z=H3, means fixed Mexico



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plug, 2 USB output ports+one cable output; z=h3c, means fixed Mexico plug, 2 USB output ports+1 type C output; z=H3c, means fixed Mexico plug, 1 USB output port+1 type C output+1 cable output;

z=i2, means fixed China plug, 2 USB output ports; z=i3, means fixed China plug, 3 USB output ports; z=i4, means fixed China plug, 4 USB output ports; z=i3, means fixed China plug, 2 USB output ports+one cable output; z=i3c, means fixed China plug, 2 USB output ports+1 type C output; z=l3c, means fixed China plug, 1 USB output port+1 type C output+1 cable output;

z=j2, means fixed Brazil plug, 2 USB output ports; z=j3, means fixed Brazil plug, 3 USB output ports; z=j4, means fixed Brazil plug, 4 USB output ports; z=J3, means fixed Brazil plug, 2 USB output ports+one cable output; z=j3c, means fixed Brazil plug, 2 USB output ports+1 type C output; z=J3c, means fixed Brazil plug, 1 USB output port+1 type C output+1 cable output;

z=w2, means Detachable plug, 2 USB output ports; z=w3, means Detachable plug, 3 USB output ports; z=w4, means Detachable plug, 4 USB output ports; z=W3, means Detachable plug, 2 USB output ports+one cable output; z=w3c, means Detachable plug, 2 USB output ports+1 type C output; z=W3c, means Detachable plug, 1 USB output port+1 type C output+1 cable output)

Detailed variable 'x':

		205 Indicates fixed American plug and two USB outputs; the same as ASSA75a2
		207 Indicates fixed European plug and two USB outputs; the same as ASSA75e2
	205, 207, 208,	208 Indicates detachable plug and two USB output; the same as ASSA75w2
×	401, 402, 403	401 Indicates fixed American plug and four USB outputs; the same as ASSA75a4
		403 Indicates fixed European plug and four USB outputs; the same as ASSA75e4
		402 Indicates detachable plug and four USB output. the same as ASSA75w4

Details refer to user manual.

### 3.2 Ratings and System Details

System input:	AC 100-240V
Frequency:	50/60Hz
Rated output	Refer to section 3.1
Protection class:	

Refer to the Rating Label and User Manual for further information.



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### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Maximum load
  - 2. Medium load
  - 3. Minimum load
- B. Off

For further information refer to User Manual.

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

#### 3.5 Submitted Documents

Circuit Diagram Rating Label User Manual PCB Layout



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### 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. Pre-test in all operation modes, and find out the worst case for compliance test. According to section 3.1, full tests were applied to models ASSA75a2-050540, ASSA75w4-050540, ASSA75a3-050540, ASSA75a3c-050540, ASSA75A3c-050540 only.

### 4.3 Special Accessories and Auxiliary Equipment

During the testing, the EUT was tested together with the resistive load.

### 4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.



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### 4.5 Test Setup

Diagram of Measurement Configuration for Radiation Test

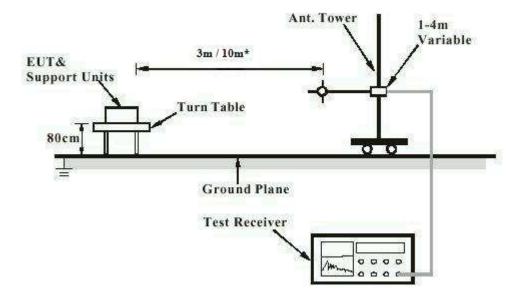
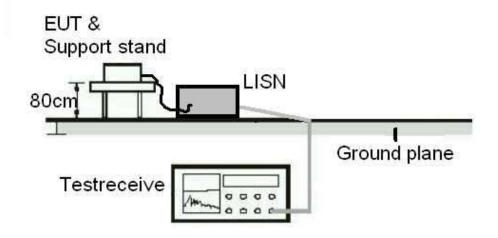


Diagram of Measurement Equipment Configuration for Conduction Measurement





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### 5 Test Results EMISSION

### 5.1 Emission in the Frequency Range up to 30 MHz

#### 5.1.1 Conducted Emission

RESULT: Pass

Date of testing : 2016-02-15

Test specification : FCC Part 15 subpart B per Section 15.107(a)

Frequency range : 0.15 - 30MHz

Classification : Class B

Test procedure : ANSI C63.4:2003 Clause 7.2

Deviations from : None

standard test procedure

Kind of test site : Shielded room

**Test setup** 

Input Voltage : AC 120V, 60Hz

Operating Condition : ANSI C63.4:2003 Clause 6.1

Operation mode : Or

Earthing : Not Connected

Temperature : 24°C Humidity : 58%

#### Test procedure:

For tabletop device, the EUT and its peripherals were placed on a wooden table, 0.8cm above the horizontal reference plane and 40cm away from vertical reference plane in a shielded room. For floor-standing device, the EUT shall be placed either directly on the reference ground plane or on insulating material. The EUT was connected to input power source through a line impedance stabilization network (LISN). The excess length of the power cord between the EUT and the LISN was folded back and forth at the center of the lead to form a bundle not exceeding 40cm in length.

The EUT was tested in a typical model of operation in accordance with ANSI C63.4:2003. Pretest was performed in peak detection mode. Final measurement was performed using quasipeak and average detection on the live and neutral lines with the worst case.

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.

Refer to appendix 1 for test results.



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### 5.2 Emission in the Frequency Range above 30 MHz

#### 5.2.1 Radiated Emission (30 – 1000MHz)

**RESULT: Pass** 

2016-02-15

FCC Part 15 subpart B per Section 15.109(a)

Test specification :
Frequency range :
Classification : 30 - 1000MHz

Class B

ANSI C63.4:2003 Clause 8.3 Test procedure

Deviations from standard: None

test procedure

3m Semi-Anechoic Chamber Kind of test site

Measuring 3m (30 - 1000MHz)

distance

**Test setup** 

Input Voltage :
Operating Condition :
Operation mode : AC 120V. 60Hz

ANSI C63.4:2003 Clause 6.1

Not Connected Earthing

Temperature 24°C Humidity 56%

#### **Test procedure:**

For tabletop device, the EUT and its peripherals were placed on a wooden table, 80cm above ground plane in semi-anechoic chamber. For floor-standing equipment, the EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating material in semi-anechoic chamber.

The EUT was set 3 meters away from the receiving antenna, which was mounted on a variableheight antenna tower. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1m to 4m. The table was rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was recorded together with the suspected emission frequency points abovementioned.

The EUT was tested in a typical model of operation in accordance with ANSI C63.4:2003. Pretest was performed in peak detection mode. Final measurement was performed using quasipeak detection with the worst case.

Refer to appendix 1 for test results.



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### 5.2.2 Radiated Emission (1 – 6GHz)

#### **Not Applicable**

Date of testing

Test specification

Frequency range
Classification

Test procedure

: -
FCC Part 15 subpart B per Section 15.109(a)

1 – 6GHz

Class B

ANSI C63.4:2003 Clause 8.3

Deviations from standard :

test procedure

3m Semi-Anechoic Chamber

Kind of test site Measuring 3m (1000 – 6000MHz)

distance

Remark: According to the clause 15.33 of FCC part 15, the highest frequency generated or used in the EUT is below 108MHz, the upper frequency of Radiated Emission test is 1GHz. Therefore this test item is not applicable.



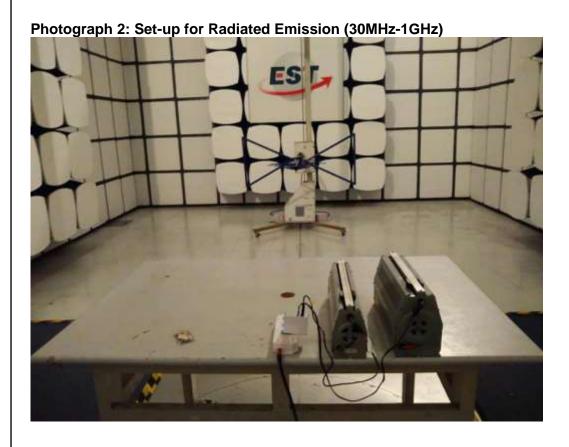
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### 6 Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission







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### 7 Labelling Requirements

According to FCC Part15 section 15.19, a device subject to certification or verification shall be labelled as follows:

"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

The device shall bear the statement in a conspicuous location on the device.

#### 8 Information to User

According to FCC Part15 section 15.21, the users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

Also, refer to FCC Part 15 section 15.105, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, maybe cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different form that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help."





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9 List of Tables	
Table 1: List of Test and Measurement Equipment	
10List of Photographs	
Photograph 1: Set-up for Conducted Emission	15 15



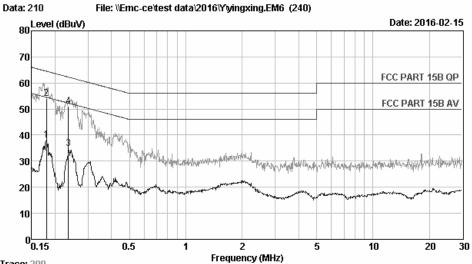
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### EST Technology

Produkte **Products** 

> Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878



Trace: 209

: 844 Shield Room Data no. : 210 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a2-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.18	9.61	9.80	18.53	37.94	54.50	16.56	Average
2	0.18	9.61	9.80	34.59	54.00	64.50	10.50	QP
3	0.24	9.61	9.82	15.33	34.76	52.26	17.50	Average
- 4	0.24	0.61	0.02	21 57	E1 00	62 26	11 26	OB

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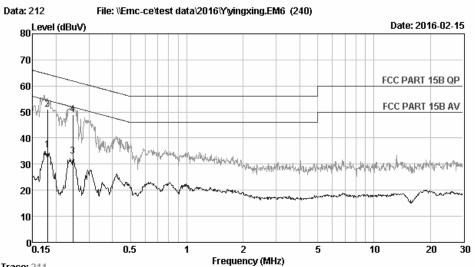
**Produkte** 

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### EST Technology

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Trace: 211

: 844 Shield Room Data no. : 212 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a2-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.18	9.55	9.80	16.21	35.56	54.50	18.94	Average
2	0.18	9.55	9.80	31.65	51.00	64.50	13.50	QP
3	0.25	9.60	9.82	13.57	32.99	51.91	18.92	Average
4	0.25	9.60	9.82	29.58	49.00	61.91	12.91	QP

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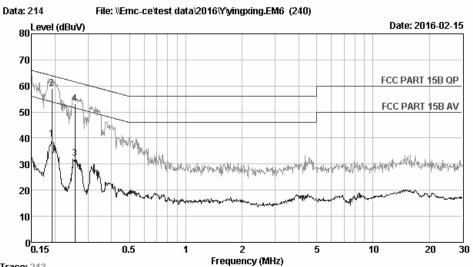


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Trace: 213

: 844 Shield Room Data no. : 214 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a3-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.58	9.80	20.08	39.46	53.93	14.47	Average
2	0.19	9.58	9.80	39.62	59.00	63.93	4.93	QP
3	0.25	9.60	9.82	12.72	32.14	51.60	19.46	Average
А	0.25	0.60	0.00	22 50	E2 00	61 60	0 60	OB

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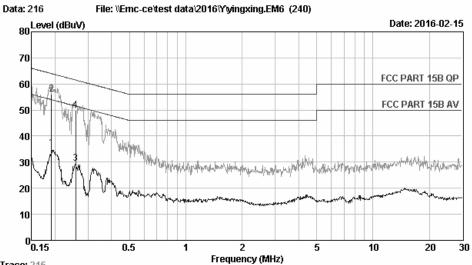


**Produkte Products** 

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### EST Technology

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Trace: 215

: 844 Shield Room Data no. : 216 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a3-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.61	9.80	15.98	35.39	53.98	18.59	Average
2	0.19	9.61	9.80	36.59	56.00	63.98	7.98	QP
3	0.26	9.61	9.82	10.20	29.63	51.51	21.88	Average
4	0.26	9.61	9.82	30.57	50.00	61.51	11.51	QP

#### 17057902 001

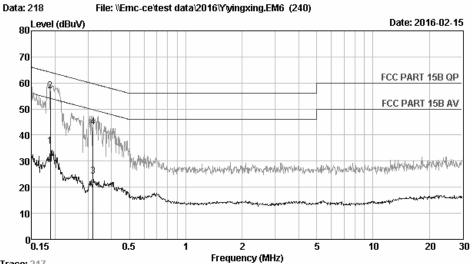


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### EST Technology

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**Trace: 217** 

: 844 Shield Room Data no. : 218 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

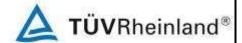
Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a3c-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.61	9.80	16.31	35.72	54.11	18.39	Average
2	0.19	9.61	9.80	37.59	57.00	64.11	7.11	QP
3	0.32	9.61	9.83	4.81	24.25	49.75	25.50	Average
4	0.32	9.61	9.83	23.56	43.00	59.75	16.75	QP

#### 17057902 001

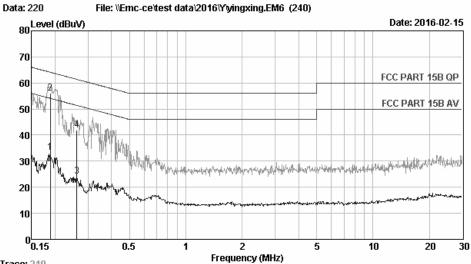


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### EST Technology

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Trace: 219

: 844 Shield Room Data no. : 220 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75a3c-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.57	9.80	13.95	33.32	54.11	20.79	Average
2	0.19	9.57	9.80	36.63	56.00	64.11	8.11	QP
3	0.26	9.60	9.82	4.75	24.17	51.38	27.21	Average
А	0.26	0.60	0.82	22 58	42.00	61 38	10 38	OB

#### 17057902 001

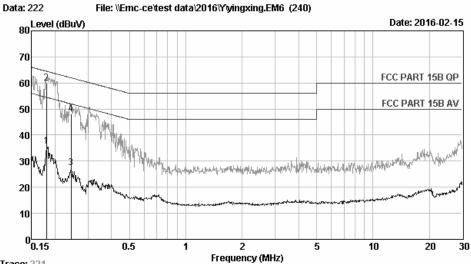


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Trace: 221

: 844 Shield Room Data no. : 222 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.18	9.55	9.80	16.33	35.68	54.50	18.82	Average
2	0.18	9.55	9.80	40.65	60.00	64.50	4.50	QP
3	0.24	9.60	9.82	8.08	27.50	52.00	24.50	Average
4	0.24	9.60	9.82	28.58	48.00	62.00	14.00	QP

#### 17057902 001

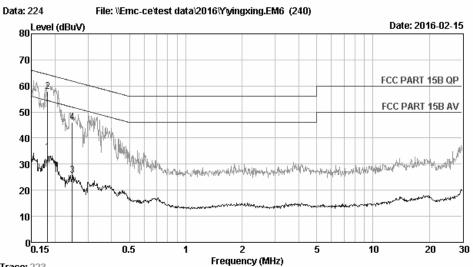


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Trace: 223

: 844 Shield Room Data no. : 224 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.18	9.61	9.80	15.03	34.44	54.37	19.93	Average
2	0.18	9.61	9.80	38.59	58.00	64.37	6.37	QP
3	0.25	9.61	9.82	6.30	25.73	51.86	26.13	Average
4	0.25	9.61	9.82	26.57	46.00	61.86	15.86	QP

#### 17057902 001

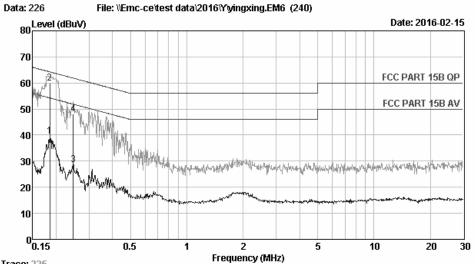
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Trace: 225

: 844 Shield Room Data no. : 226 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75w4-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.61	9.80	20.01	39.42	54.24	14.82	Average
2	0.19	9.61	9.80	40.59	60.00	64.24	4.24	QP
3	0.25	9.61	9.82	9.16	28.59	51.86	23.27	Average
4	0.25	9.61	9.82	28.57	48.00	61.86	13.86	QP

#### 17057902 001

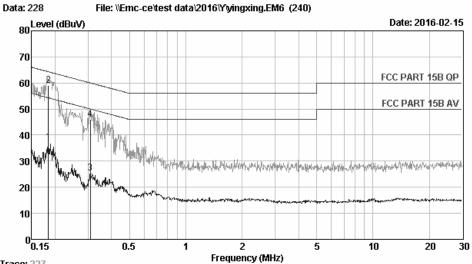


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Trace: 227

: 844 Shield Room Data no. : 228 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75w4-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.18	9.56	9.80	17.97	37.33	54.28	16.95	Average
2	0.18	9.56	9.80	39.64	59.00	64.28	5.28	QP
3	0.31	9.60	9.83	5.96	25.39	50.02	24.63	Average
4	0.31	9.60	9.83	26.57	46.00	60.02	14.02	QP

#### 17057902 001

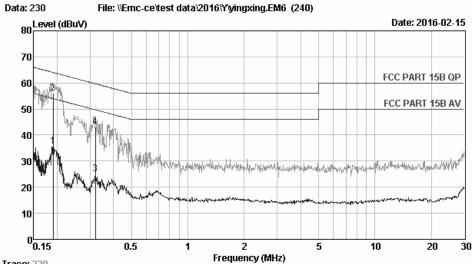


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**Trace: 229** 

: 844 Shield Room Data no. : 230 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75W3-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark	
1	0.19	9.61	9.80	16.32	35.73	54.02	18.29	Average	
2	0.19	9.61	9.80	36.59	56.00	64.02	8.02	QP	
3	0.32	9.61	9.83	5.77	25.21	49.71	24.50	Average	
4	0.32	9.61	9.83	23.56	43.00	59.71	16.71	QP	

#### 17057902 001



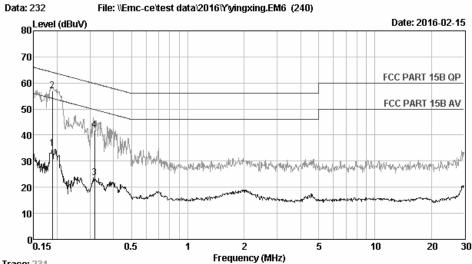
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Trace: 231

: 844 Shield Room Data no. : 232 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75W3-050540

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	9.57	9.80	15.40	34.77	54.11	19.34	Average
2	0.19	9.57	9.80	37.63	57.00	64.11	7.11	QP
3	0.32	9.59	9.83	4.10	23.52	49.80	26.28	Average
4	0.32	9.59	9.83	22.58	42.00	59.80	17.80	QP

#### 17057902 001

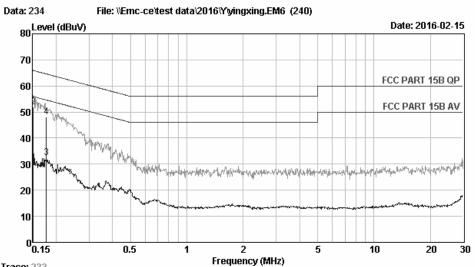


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**Trace:** 233

: 844 Shield Room Data no. : 234 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

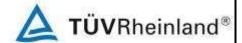
Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

Test Mode : Half Load(Output: 5V/2.7A)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.61	9.81	12.41	31.83	56.00	24.17	Average
2	0.15	9.61	9.81	32.58	52.00	65.94	13.94	QP
3	0.18	9.61	9.80	13.18	32.59	54.59	22.00	Average
4	0.18	9.61	9.80	28.59	48.00	64.59	16.59	QP

#### 17057902 001

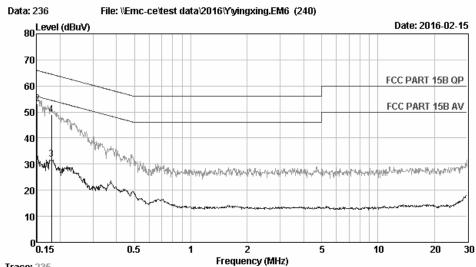


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Trace: 235

: 844 Shield Room Data no. : 236 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

Test Mode : Half Load(Output: 5V/2.7A)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.46	9.81	15.08	34.35	56.00	21.65	Average
2	0.15	9.46	9.81	33.73	53.00	65.94	12.94	QP
3	0.18	9.55	9.80	12.63	31.98	54.50	22.52	Average
4	0.18	9.55	9.80	29.65	49.00	64.50	15.50	QP

#### 17057902 001

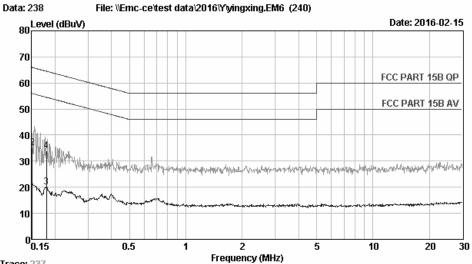
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**Trace: 237** 

: 844 Shield Room Data no. : 238 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

Test Mode : No Load

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark	
1	0.15	9.46	9.81	2.55	21.82	56.00	34.18	Average	
2	0.15	9.46	9.81	15.73	35.00	65.94	30.94	QP	
3	0.18	9.55	9.80	0.66	20.01	54.50	34.49	Average	
4	0.18	9.55	9.80	14.65	34.00	64.50	30.50	QP	

#### 17057902 001

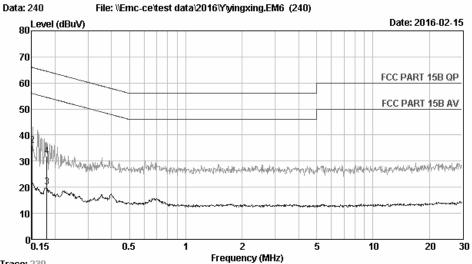


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Trace: 239

: 844 Shield Room Data no. : 240 : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE Site no Env. / Ins.

Limit : FCC PART 15B QP

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz : ASSA75A3c-050540

Test Mode : No Load

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.61	9.81	1.40	20.82	56.00	35.18	Average
2	0.15	9.61	9.81	16.58	36.00	65.94	29.94	QP
3	0.18	9.61	9.80	0.75	20.16	54.46	34.30	Average
- 1	0.10	0.61	0 00	12 50	22 00	en ne	22 46	OB

#### 17057902 001

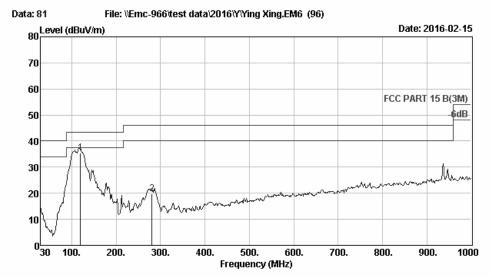
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Site no. : 966 1# chamber Data no. : 81
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75a2-050540

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	119.24	11.11	1.42	22.96	35.49	43.50	8.01	QP	
2	280.26	12.37	2.28	5.19	19.84	46.00	26.16	OP	

# Appendix 1 **17057902 001**

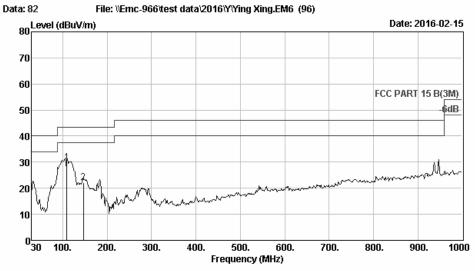
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## EST Technology



Site no. : 966 l# chamber Data no. : 82
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75a2-050540

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	109.54	10.44	1.40	17.99	29.83	43.50	13.67	QP	
2	146.40	11.15	1.58	9.42	22.15	43.50	21.35	QP	

1

17057902 001

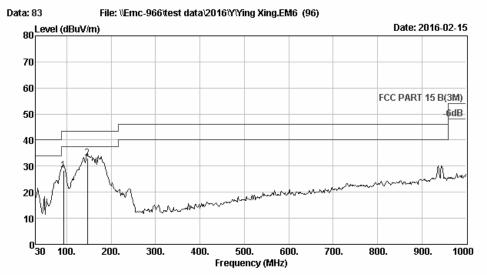


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Site no. : 966 l# chamber Data no. : 83
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75a3-050540

		ANT	Cable		Emission				
	Freq.	Factor	Loss	Reading	Level	Limit	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	93.05	8.59	1.27	18.52	28.38	43.50	15.12	QP	
2	146.40	11.15	1.58	20.32	33.05	43.50	10.45	OP	

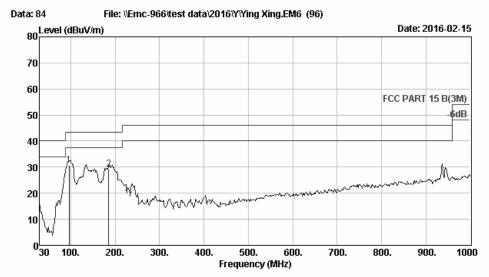
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Site no. : 966 1# chamber Data no. : 84
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75a3-050540

		ANT	Cable		Emission			
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.96	8.92	1.31	20.33	30.56	43.50	12.94	QP
2	185.20	8.48	1.75	18.91	29.14	43.50	14.36	OP

17057902 001

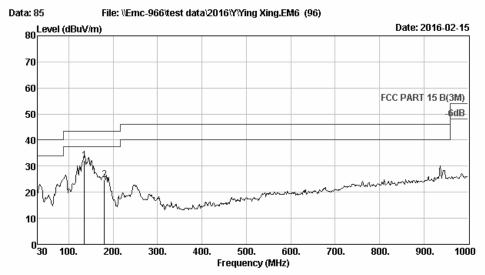


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Site no. : 966 l# chamber Data no. : 85
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

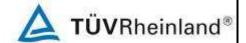
EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75w4-050540

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	134.76	11.37	1.57	19.13	32.07	43.50	11.43	QP	
2	180.35	8.95	1.70	14.28	24.93	43.50	18.57	OP	

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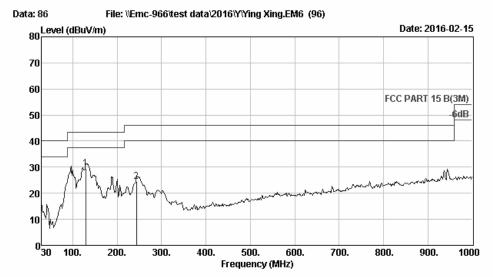
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Site no. : 966 1# chamber Data no. : 86
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75w4-050540

		ANT	Cable		Emission				
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
  1	128.94	11.33	1.47	16.60	29.40	43.50	14.10	QP	
2	243.40	10.78	2.14	11.50	24.42	46.00	21.58	OP	

# Appendix 1 17057902 001

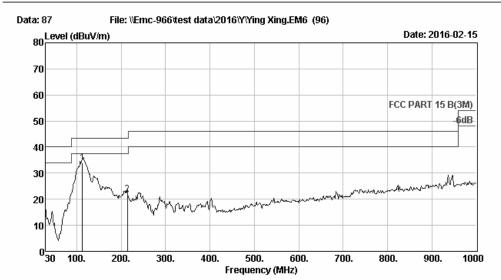
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: site : 3m 27137 : FCC PART 15 B(3M) Data no. : 87 Ant. pol. : HORIZONTAL Site no. Dis. / Ant.

Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter : AC 120V/60Hz M/N : ASSA75a3c-050540

		ANT	Cable		Emission			
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	112.45	10.68	1.43	21.79	33.90	43.50	9.60	QP
2	214.30	8.65	1.96	11.25	21.86	43.50	21.64	OP

#### 17057902 001

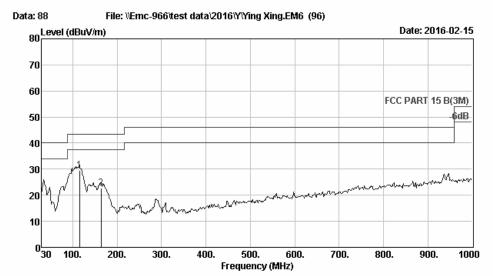
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EST Technology

Produkte

Chilingxiang, Qishantou, Santun, Houjie, Dongguan,Guangdong,China Tel:+86-769-83081888 Fax:+86-769-83081878



Site no. : 966 1# chamber Data no. : 88
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75a3c-050540

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	115.36	10.93	1.46	17.06	29.45	43.50	14.05	QP	
2	163.86	9.89	1.67	11.26	22.82	43.50	20.68	OP	

Produkte Products

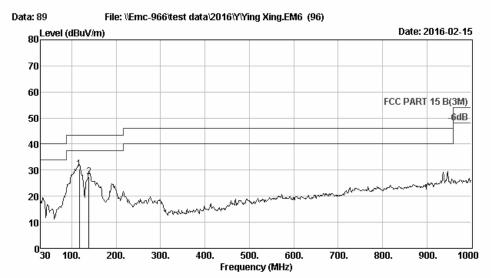
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# EST Technology

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Site no. : 966 l# chamber Data no. : 89
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75A3c-050540

		ANT	Cable		Emission			
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	117.30	11.02	1.47	17.81	30.30	43.50	13.20	QP
2	138.64	11.42	1.54	14.42	27.38	43.50	16.12	OP

# 17057902 001

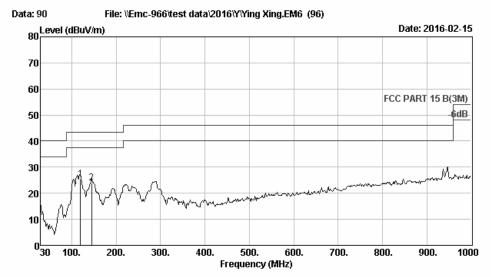
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EST Technology

Produkte

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Site no. : 966 l# chamber Data no. : 90
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75A3c-050540

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	119.24	11.11	1.42	12.82	25.35	43.50	18.15	QP	
2	144.46	11.26	1.54	11.13	23.93	43.50	19.57	OP	

Produkte

**Products** 

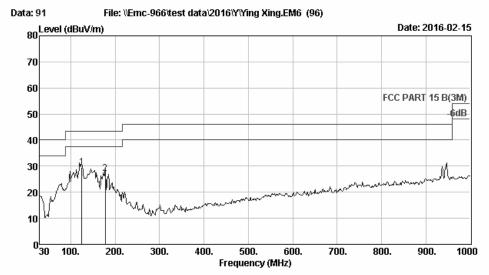
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# ${\operatorname{EST}}$ Technology

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Site no. : 966 l# chamber Data no. : 91
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75W3-050540

		ANT	Cable		Emission		W'		
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	125.06	11.35	1.52	16.66	29.53	43.50	13.97	QP	
2	177.44	8.97	1.67	16.55	27.19	43.50	16.31	OP	

Produkte

Products

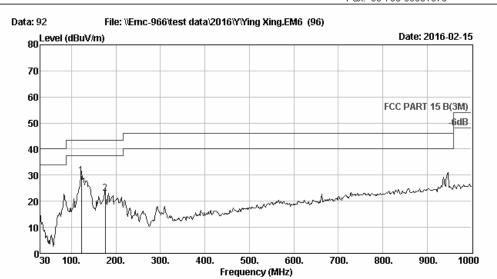
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# EST Technology

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Site no. : 966 l# chamber Data no. : 92
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZOMTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75W3-050540

	Freq.	ANT Factor	Cable Loss	Reading	Emission Level	Limit	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	122.15	11.24	1.45	17.04	29.73	43.50	13.77	QP	
2	175.50	8.98	1.68	12.30	22.96	43.50	20.54	QP	

Produkte

Products

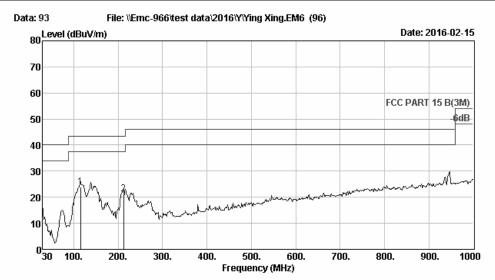
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# ${\operatorname{EST}}$ ${\operatorname{Technology}}$

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Site no. : 966 l# chamber Data no. : 93
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZOMTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75A3c-050540

Test Mode : Half Load (Output:5V/2.7A)

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	115.36	10.93	1.46	11.60	23.99	43.50	19.51	QP	
2	212.36	8.56	1.91	10.81	21.28	43.50	22.22	OP	

**Products** 

Produkte

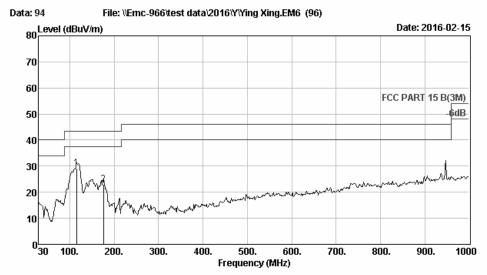
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# EST Technology

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Data no. : 94 Ant. pol. : VERTICAL : 966 l# chamber Site no. Dis. / Ant. : 3m 27137

: FCC PART 15 B(3M) Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter Power : AC 120V/60Hz M/N : ASSA75A3c-050540

Test Mode : Half Load (Output:5V/2.7A)

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	115.36	10.93	1.46	16.87	29.26	43.50	14.24	QP	
2	175.50	8.98	1.68	12.43	23.09	43.50	20.41	OP	

#### 17057902 001

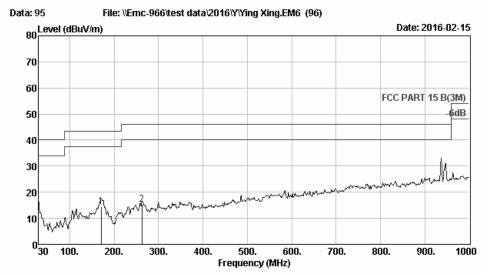


Produkte Products

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# EST Technology

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Site no. : 966 l# chamber Data no. : 95
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75A3c-050540

Test Mode : No Load

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	170.65	9.16	1.69	3.71	14.56	43.50	28.94	QP	
2	262.80	12.95	2.22	0.30	15.47	46.00	30.53	QP	

Produkte

Products

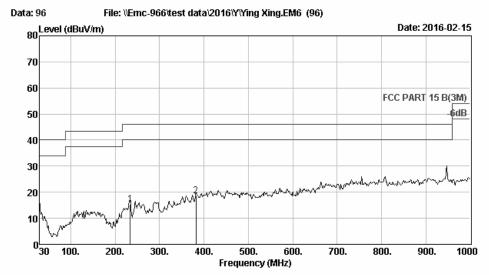
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# EST Technology

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Site no. : 966 l# chamber Data no. : 96
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZOMTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Leo

EUT : Switching Adapter
Power : AC 120V/60Hz
M/N : ASSA75A3c-050540

Test Mode : No Load

		ANT	Cable		Emission			
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	233.70	9.64	2.09	3.66	15.39	46.00	30.61	QP
2	382.11	15.18	2.65	0.66	18.49	46.00	27.51	OP