

C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50420933 0001

Report No.: 50099145 001

Holder: Dongguan Fuyuan Electronic
Co., Ltd.
1st~3rd Floor No.23 Estate, Sanjiang
Industrial Zone, Hengli Town
Dongguan Guangdong Province 523460
P. R. China

Product: Battery Charger

Identification: Type Designation: FYxxxxxyyyyy
('xxx' and 'yyyyy' are variables, refer to report.)
Serial No. : n.a.
Remark: Refer to above-listed test report for details.

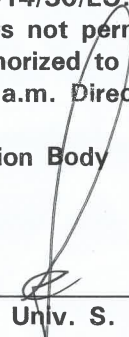
Tested acc. to: EN 55014-1:2017
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55014-2:2015

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body

Date 25.10.2018


Dipl.-Ing. Univ. S. O. Steinke

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

Dongguan Fuyuan Electronic Co.,
Ltd.

Date : 25.10.2018
Our ref. : Xiaoal 02
Your ref.:

1st~3rd Floor No.23 Estate,
Sanjiang
Industrial Zone, Hengli Town
Dongguan Guangdong Province 523460
P. R. China

Ref : AE Certificate of Conformity EMC

Type of Equipment : Battery Charger
Model Designation : See Certificate
Certificate No. : AE 50420933 0001
Report No. : 50099145 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

Dipl.-Ing. Univ. S. O. Steinke

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Prüfbericht-Nr.: Test Report No.:	50099145 001	Auftrags-Nr.: Order No.:	164103228	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: Client Reference No.:	398524	Auftragsdatum: Order date.:	21 Aug. 2017	
Auftraggeber: Client:	Dongguan Fuyuan Electronic Co., Ltd. 1st~3rd Floor No.23 Estate, Sanjiang Industrial Zone, Hengli Town, Dongguan Guangdong Province 523460, P. R. China			
Prüfgegenstand: Test item:	Battery Charger			
Bezeichnung / Typ-Nr.: Identification / Type No.:	FYxxxxyyyy (‘xxx’ and ‘yyyy’ are variables, refer to section 3.1 for details.)			
Auftrags-Inhalt: Order content:	TUV Rheinland - EMC service			
Prüfgrundlage: Test specification:	EN 55014-1:2017 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55014-2:2015			
Wareneingangsdatum: Date of receipt:	07 April 2017			
Prüfmuster-Nr.: Test sample No.:	1708-2827~2833			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
<p style="text-align: center;"><i>Allen Xiao</i></p> <p>24.10.2018 Allen Xiao Senior Project Engineer</p>		<p style="text-align: center;"><i>Tongle Lee</i></p> <p>24.10.2018 Tongle Lee Technical Certifier</p>		
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position
				Unterschrift Signature
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</p>				
<p>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.</p> <p>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.</p>				

v04

TEST SUMMARY

5.1.1 HARMONICS ON AC MAINS

RESULT: Pass

5.1.2 VOLTAGE FLUCTUATIONS ON AC MAINS

RESULT: Pass

5.1.3 DISTURBANCE VOLTAGES

RESULT: Pass

5.2.1 DISTURBANCE POWER

RESULT: Pass

5.2.2 RADIATED ELECTROMAGNETIC DISTURBANCES

RESULT: Pass

6.2.1 RADIO-FREQUENCY COMMON MODE / CONDUCTED SUSCEPTIBILITY (CS)

RESULT: Pass

6.3.1 ELECTRICAL FAST TRANSIENTS (EFT)

RESULT: Pass

6.3.2 SURGE

RESULT: Pass

6.3.3 ELECTROSTATIC DISCHARGES (ESD)

RESULT: Pass

6.4.1 VOLTAGE DIPS AND INTERRUPTIONS

RESULT: Pass

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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

Appendix 2: Measurement uncertainties

2. Test Sites

2.1 Test Facilities

Dongguan NTC Co., Ltd. (NTC)
Building D, Gaosheng Science and Technology Park,
Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China.

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Disturbance Voltage (NTC)				
Test Receiver	R & S	ESCI	101152	2019-03-13
L.I.S.N	R & S	ENV 216	101317	2019-03-13
L.I.S.N	R & S	ESH2-Z5	893606/014	2019-03-13
RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	2019-03-13
Disturbance Power (NTC)				
Test Receiver	R & S	ESCI	101152	2019-03-13
Power Clamp	Luthi	MDS 21	4057	2019-03-22
RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	2019-03-13
ESD (NTC)				
ESD Tester	TESEQ	NSG 437	432	2019-03-22
Radio-Frequency Continuous Conducted Susceptibility (NTC)				
Signal Generator	IFR	2023A	N/A	2019-03-13
Power Amplifier	SCHAFFNER	CBA9425	1022	2019-03-13
6dB 50Watt Attenuator	SCHAFFNER	ATN6025	N/A	2019-03-13
CDN	Lioncel	CDN-M3-16	0170708	2019-03-13
CDN	Lioncel	CDN-M2-16	0170723	2019-03-13
CDN	CDSI	ADN-M5/AF5	N/A	2019-03-13
EM Clamp	CDSI	EMCL-22	N/A	2019-03-13
Directional Coupler	SCHAFFNER	255	19184	2019-03-13
EFT (NTC)				
Burst Tester	EM TEST	UCS 500N	V1104108683	2019-03-13
Coupling Clamp	EM TEST	HFK	0311-94	2019-03-13
CDN	EM TEST	CNV508	N/A	2019-03-13
Surge (NTC)				
SurgeTester	EM TEST	UCS 500N	V1104108683	2019-03-13
CDN	EM TEST	CNV508	N/A	2019-03-13
Voltage Dips and Interruptions (NTC)				
DIPS Tester	EM TEST	UCS 500N	V1104108683	2019-03-13
Dips Modulator	EM TEST	V4780S2	0111-11	2019-03-13
Harmonic (NTC)				
Power Frequency Test System	California Instruments	CTS	72846	2019-03-13
5KVA AC Power Source	California Instruments	500liX	60137	2019-03-13

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are Battery Chargers for household use.
 All models have similar circuit design except the type designation, output rating and electrical rating of some components.

Definition of variable(s):

Variable:	Range of variable:	Content:
FYxxxxxyyyyy		
xxx	060-870	3 digit number indicating 10 times the output voltage value in V. For example, 060 represents the output voltage is 6V, 870 represents the output voltage is 87V.
yyyyy	01000-20000	5 digit number indicating the output current value in mA. For example, 01000 represents the output current is 1000 mA, 20000 represents the output current is 20000 mA.

Model list:

Model No.	Output			PRI. winding	SEC. winding
	voltage (V)	current (mA)	Max Power (W)		
FY060yyyyy (yyyyy=8000-20000)	6	8000-20000	48-120	80X0.12MM 17T	16X0.5MM 1T
FY075yyyyy (yyyyy=8000-20000)	7.5	8000-20000	57.6-150		
FY084yyyyy (yyyyy=8000-20000)	8.4	8000-20000	67.2-168		
FY085yyyyy (yyyyy=8000-20000)	8.5	8000-20000	68-170		
FY090yyyyy (yyyyy=8000-20000)	9	8000-20000	72-180		
FY100yyyyy (yyyyy=8000-20000)	10	8000-20000	80-200		
FY110yyyyy (yyyyy=8000-20000)	11	8000-20000	88-220		
FY114yyyyy (yyyyy=8000-20000)	11.4	8000-20000	91.2-228		
FY120yyyyy (yyyyy=8000-20000)	12	8000-20000	96-240		
FY126yyyyy (yyyyy=8000-20000)	12.6	8000-20000	100.8-252		
FY130yyyyy (yyyyy=8000-20000)	13	8000-20000	104-260		
FY135yyyyy (yyyyy=8000-20000)	13.5	8000-20000	108-270		
FY138yyyyy (yyyyy=8000-20000)	13.8	8000-20000	110.4-276		

FY143yyyyy (yyyyy=8000-20000)	14.3	8000-20000	114.4-286	80X0.12MM 21T	16X0.5MM 3T
FY146yyyyy (yyyyy=8000-20000)	14.6	8000-20000	116.8-292		
FY150yyyyy (yyyyy=8000-20000)	15	8000-20000	120-300		
FY160yyyyy (yyyyy=8000-20000)	16	8000-20000	128-320		
FY166yyyyy (yyyyy=8000-20000)	16.6	8000-20000	132.8-332		
FY168yyyyy (yyyyy=8000-20000)	16.8	8000-20000	134.4-336		
FY170yyyyy (yyyyy=8000-20000)	17	8000-20000	136-340		
FY180yyyyy (yyyyy=8000-20000)	18	8000-20000	144-360		
FY190yyyyy (yyyyy=8000-20000)	19	8000-20000	152-380		
FY200yyyyy (yyyyy=7000-19000)	20	7000-19000	140-380		
FY210yyyyy (yyyyy=7000-18000)	21	7000-18000	147-378		
FY2250yyyyy (yyyyy=7000-17000)	22.5	7000-17000	157.5-382.5		
FY240yyyyy (yyyyy=6000-16000)	24	6000-16000	144-384		
FY255yyyyy (yyyyy=6000-15000)	25.5	6000-15000	153-382.5	80X0.12MM 18T	12X0.5MM 4T
FY280yyyyy (yyyyy=5000-14000)	28	5000-14000	140-392		
FY290yyyyy (yyyyy=5000-13000)	29	6000-13000	153-377		
FY300yyyyy (yyyyy=5000-12500)	30	5000-12500	150-375		
FY320yyyyy (yyyyy=5000-12000)	32	5000-12000	160-384		
FY340yyyyy (yyyyy=4000-11000)	34	4000-11000	136-374		
FY360yyyyy (yyyyy=4000-10500)	36	4000-10500	144-378		
FY380yyyyy (yyyyy=4000-10000)	38	4000-10000	152-380		
FY400yyyyy (yyyyy=3500-9500)	40	3500-9500	140-380	80X0.12MM 15T	8X0.5MM 5T
FY420yyyyy (yyyyy=3500-9500)	42	3500-9500	147-399		
FY425yyyyy (yyyyy=3500-9000)	42.5	3500-9000	148.75-382.5		
FY430yyyyy (yyyyy=3500-9000)	43	3500-9000	150.5-387		

FY438yyyyy (yyyyy=3500-9000)	43.8	3500-9000	153.3-394.2		
FY440yyyyy (yyyyy=3500-9000)	44	3500-9000	154-396		
FY450yyyyy (yyyyy=3500-9000)	45	3500-9000	135-405		
FY460yyyyy (yyyyy=3000-8500)	46	3000-8500	138-391		
FY470yyyyy (yyyyy=3000-8500)	47	3000-8500	141-399.5		
FY480yyyyy (yyyyy=3000-8000)	48	3000-8000	144-384		
FY504yyyyy (yyyyy=3000-8000)	50.4	3000-8000	151.2-403.2		
EHFPA-100L (yyyyy=3000-8000)	50.4	3000-8000	151.2-403.2		
FY510yyyyy (yyyyy=3000-7500)	51	3000-7500	153-382.5		
FY520yyyyy (yyyyy=3000-7500)	52	3000-7500	156-390		
FY546yyyyy (yyyyy=3000-7000)	54.6	3000-7000	136.5-382.2		
FY550yyyyy (yyyyy=2500-7000)	55	2500-7000	137.5-385		
FY580yyyyy (yyyyy=2500-7000)	58	2500-7000	145-406		
FY584yyyyy (yyyyy=2500-7000)	58.4	2500-7000	146-408.8		
FY588yyyyy (yyyyy=2500-7000)	58.8	2500-7000	147-411.6		
FY612yyyyy (yyyyy=1000-6500)	61.2	1000-6500	61.2-397.8	80X0.12MM 15T	8X0.5MM 6T
FY620yyyyy (yyyyy=1000-6500)	62	1000-6500	62-403		
FY630yyyyy (yyyyy=1000-6500)	63	1000-6500	63-409.5		
FY648yyyyy (yyyyy=1000-6000)	64.8	1000-6000	64.8-388.8		
FY650yyyyy (yyyyy=1000-6000)	65	1000-6000	65-390		
FY657yyyyy (yyyyy=1000-6000)	65.7	1000-6000	65.7-394.2		
FY670yyyyy (yyyyy=1000-6000)	67	1000-6000	67-402		
FY672yyyyy (yyyyy=1000-6000)	67.2	1000-6000	67.2-403.2		
FY684yyyyy (yyyyy=1000-6000)	68.4	1000-6000	68.4-410.4		
FY714yyyyy (yyyyy=1000-5500)	71.4	1000-5500	71.4-392.7		

FY720yyyyy (yyyyy=1000-5500)	72	1000-5500	72-396		
FY725yyyyy (yyyyy=1000-5500)	72.5	1000-5500	72.5-398.75		
FY730yyyyy (yyyyy=1000-5500)	73	1000-5500	73-401.5		
FY750yyyyy (yyyyy=1000-5400)	75	1000-5400	75-405		
FY756yyyyy (yyyyy=1000-5400)	75.6	1000-5400	75.6-408.24		
FY800yyyyy (yyyyy=1000-5000)	80	1000-5000	80-400		
FY828yyyyy (yyyyy=1000-4800)	82.8	1000-4800	82.8-397.44		
FY840yyyyy (yyyyy=1000-4800)	84	1000-4800	84-403.2		
FY864yyyyy (yyyyy=1000-4600)	86.4	1000-4600	86.4-397.44		
FY870yyyyy (yyyyy=1000-4600)	87	1000-4600	87-400.2		

For more information refer to the Circuit Diagram & Instruction Manual.

3.2 Ratings and System Details

System input voltage: AC 100-240V
 Frequency: 50/60Hz
 Rated input current: 5.0A Max.
 Rated output: refer to section 3.1
 Protection class: I

3.3 Independent Operation Modes

The basic operation modes are:

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

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Bill of Materials
- PCB Layout
- Rating Label

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.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. 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 & 6.

Pre-test was carried out at all operation modes & different voltages to find out the worst case for compliance test.

According to section 3.1, full tests were applied on models FY08520000, FY15020000, FY22517000, FY32012000, FY54607000, FY64806000 and FY87004500.

4.3 Special Accessories and Auxiliary Equipment

Resistance load was employed during testing.

4.4 Countermeasures to achieve EMC Compliance

The test samples, which have 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.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Harmonics on AC Mains

RESULT:**Pass**

Date of testing	:	2018-04-23 to 2018-05-07
Test procedure	:	EN 61000-3-2:2014
Class	:	A
Limit	:	Table 1
Measured harmonics	:	1 – 40

Test setup

Input Voltage	:	AC 230V±2%, 50Hz
Operation Condition	:	According to Clause C.10
Operation mode	:	A
Earthing	:	Connected

Refer to attached Appendix 1.

5.1.2 Voltage Fluctuations on AC Mains

RESULT:**Pass**

Test procedure : EN 61000-3-3:2013
Limit : Clause 5
Frequency range : 0 - 2kHz

The maximum active input power of the EUTs is around 429.8W, which unlikely to produce significant voltage fluctuation. Therefore no test was applied.

See clause 6.1***

*** EN 61000-3-3:2013, clause 6.1:" ... Tests need not be made on equipment which is unlikely to produce significant voltage fluctuations or flicker. ..."

5.1.3 Disturbance Voltages

RESULT:**Pass**

Date of testing : 2018-04-24 to 2018-05-07
Test standard : EN 55014-1:2017
Frequency range : 0.15 - 30MHz
Limits : Table 5 for EN 55014-1:2017
Kind of test site : Shielded room
Tested Port : AC Mains

Test setup

Input Voltage : AC 100-240V \pm 10%, 50/60Hz
Operation Condition : According to Annex A.8.8 for EN 55014-1:2017
Operation mode : A
Artificial hand : Not applied
Earthing : Connected

Refer to attached Appendix 1.

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Disturbance Power

RESULT:**Pass**

Date of testing : 2018-04-25 to 2018-04-27
Test standard : EN 55014-1:2017
Frequency range : 30 - 300MHz
Limits : Table 7 for EN 55014-1:2017
Kind of test site : Shielded room
Tested Port : AC Mains, DC Output

Test setup

Input Voltage : AC 100-240V, 50/60Hz
Operation Condition : According to Annex A.8.8 for EN 55014-1:2017
Operation mode : A
Earthing : Connected

Refer to attached Appendix 1.

5.2.2 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Test standard : EN 55014-1:2017
Frequency range : 30 – 1000MHz
Limits : Table 9 of EN 55014-1:2017

According to Clause 4.3.4.2 of EN 55014-1:2017, Appliances are deemed to comply in the frequency range from 300 MHz to 1 000 MHz since both of the following conditions 1) and 2) are fulfilled:

- 1) All emission readings from the equipment under test shall be lower than the applicable limits Table 7 of EN 55014-1:2017 reduced by the margin Table 8 of EN 55014-1:2017.
- 2) The maximum clock frequency shall be less than 30 MHz.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN 55014-2:2015, clause 4, the EUTs belong to Category II and shall be tested in accordance with clause 5 and comply with the performance criterion of clause 7.2.2.

Continuous Disturbance

6.2.1 Radio-frequency Common Mode / Conducted Susceptibility (CS) **Criterion A**

Transient Disturbance

6.3.1 Electrical Fast Transient (EFT) **Criterion B**
6.3.2 Surge **Criterion B**
6.3.3 Electrostatic Discharges (ESD) **Criterion B**

Power Supply Alterations

6.4.1 Voltage Dips and Interruptions **Criterion C**

6.2 Continuous Disturbances

6.2.1 Radio-frequency Common Mode / Conducted Susceptibility (CS)

RESULT:**Pass**

Date of testing	:	2018-05-30
Test Specification	:	EN 55014-2:2015, Clause 5.3, table 7
Basic Standard	:	IEC 61000-4-6:2013
Criterion	:	A
Frequency range	:	0.15-230MHz
Source impedance	:	150Ω
Test level	:	3V (unmodulated, rms.)
Modulation	:	AM 80%, 1kHz sine-wave
Sweep mode	:	automatic
Sweep rate	:	< 1.5×10 ⁻³ decade / sec.
Tested Port	:	AC Mains

Test setup

Input Voltage	:	AC 100-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.3 Transient Disturbances

6.3.1 Electrical Fast Transients (EFT)

RESULT:**Pass**

Date of testing	:	2018-05-25
Test Specification	:	EN 55014-2:2015, Clause 5.2, table 4
Basic Standard	:	IEC 61000-4-4:2012
Criterion	:	B
Test level	:	±1kV
Test duration	:	≥60sec
Rise time	:	5/50ns
Repetition frequency	:	5 kHz
Tested Port	:	AC Mains

Test setup

Input Voltage	:	AC 100-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.3.2 Surge

RESULT:**Pass**

Date of testing	:	2018-05-27
Test Specification	:	EN 55014-2:2015, Clause 5.6, table 12
Basic Standard	:	IEC 61000-4-5:2014
Criterion	:	B
Source impedance	:	2 Ω , 12 Ω
Test level	:	± 1 kV, ± 2 kV
Coupling phases	:	$\pi/2$, $3\pi/2$
Number of surges	:	5 (for each combination of parameters)
Repetition rate	:	Max. 1/min
Tested Port	:	AC Mains

Test Setup

Input Voltage	:	AC 100-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.3.3 Electrostatic Discharges (ESD)

RESULT:**Pass**

Date of testing	:	2018-05-26
Test Specification	:	EN 55014-2:2015, Clause 5.1, table 1
Basic Standard	:	IEC 61000-4-2:2008
Criterion	:	B
Charge voltage	:	Level3 ($\pm 8\text{kV}$) (air discharge) Level2 ($\pm 4\text{kV}$) (contact discharge)
Number of discharges	:	>10
Tested Port	:	Enclosure

Test Setup

Input Voltage	:	AC 100-240V, 50/60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

Refer to attached Appendix 1.

6.4 Power Supply Alterations

6.4.1 Voltage Dips and Interruptions

RESULT:**Pass**

Date of testing : 2018-05-25
Test Specification : EN 55014-2:2015, Clause 5.7, table 13
Basic Standard : IEC 61000-4-11:2004
Criterion : C
Tested Port : AC Mains

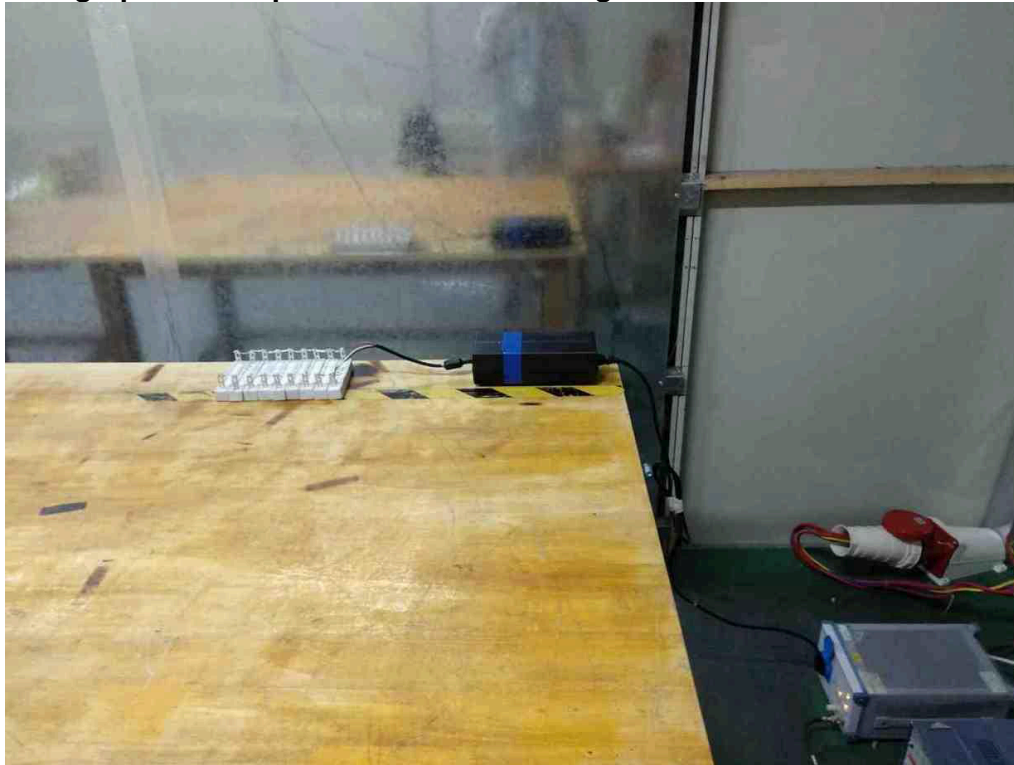
Test Setup

Input Voltage : AC 100-240V, 50/60Hz
Operation Mode : A
Earthing : Connected
Ambient temperature : See Appendix 1
Relative humidity : See Appendix 1
Atmospheric pressure : See Appendix 1

Refer to attached Appendix 1.

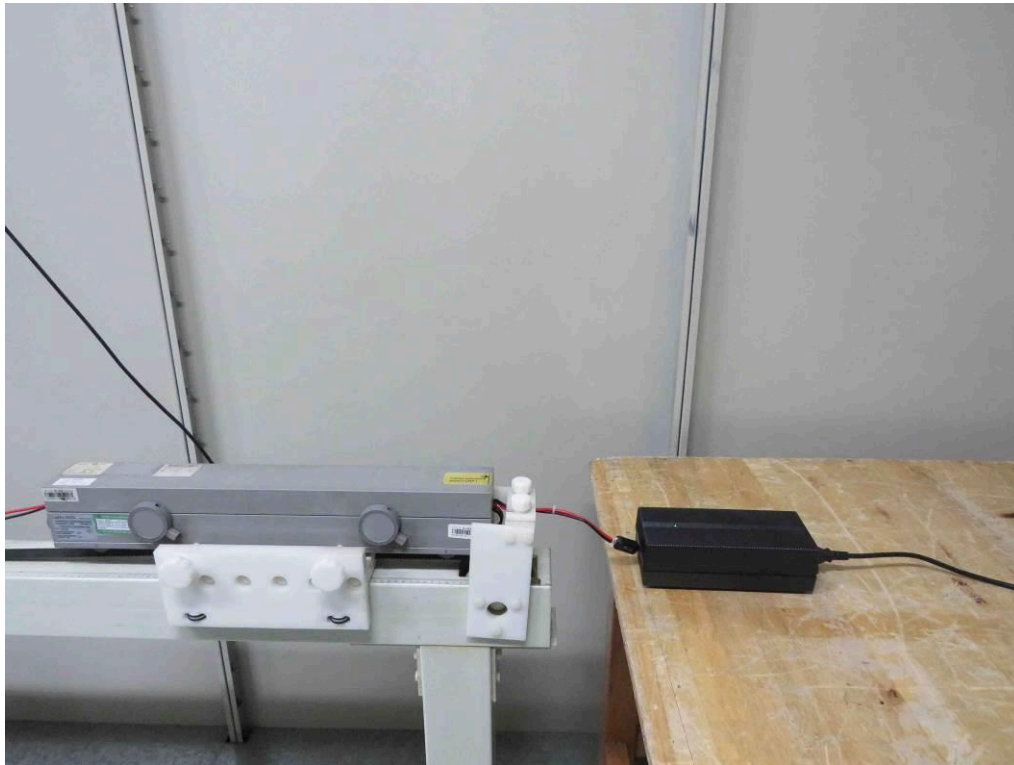
7. Photographs of the Test Set-Up

Photograph 1: Set-up for Disturbance Voltage

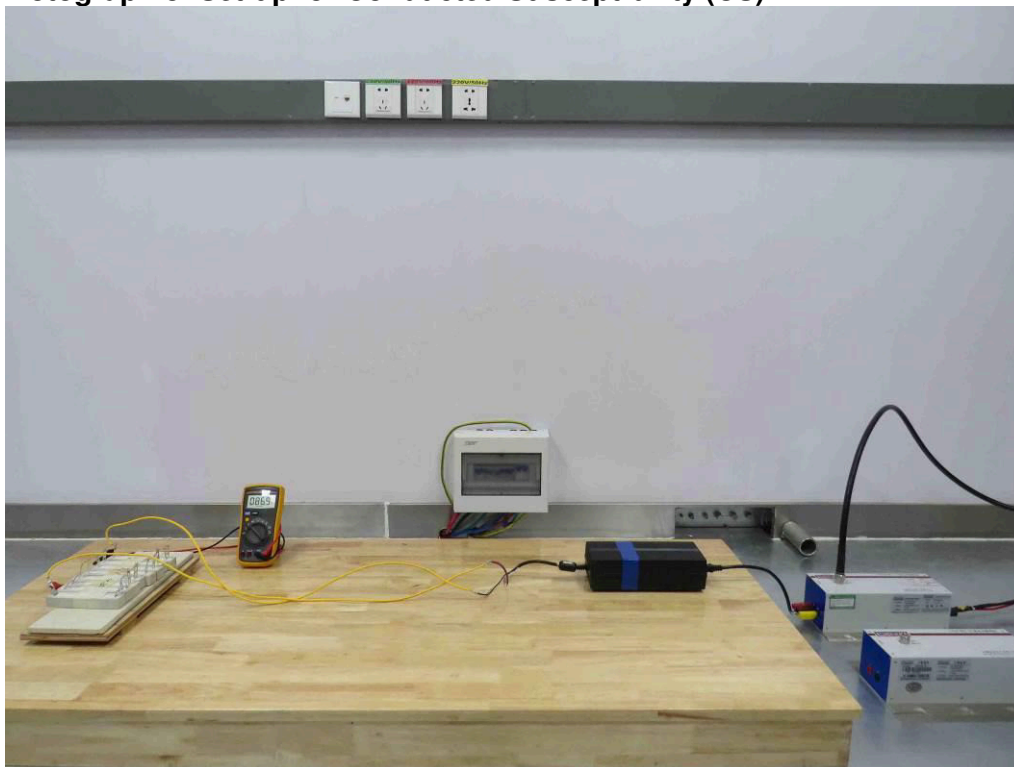


Photograph 2: Set-up for Disturbance Power





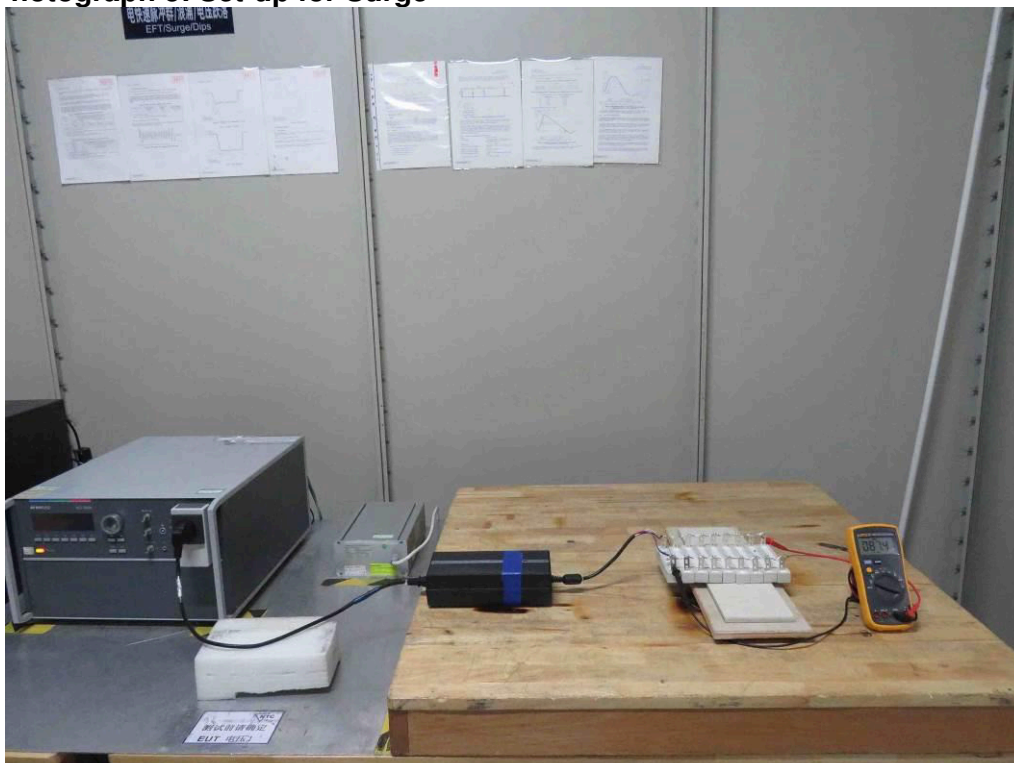
Photograph 3: Set-up for Conducted Susceptibility (CS)



Photograph 4: Set-up for EFT



Photograph 5: Set-up for Surge



Photograph 6: Set-up for Voltage Dips and Interruptions



Photograph 7: Set-up for Electrostatic Discharges (ESD)



Photograph 8: Set-up for Harmonic on AC Mains



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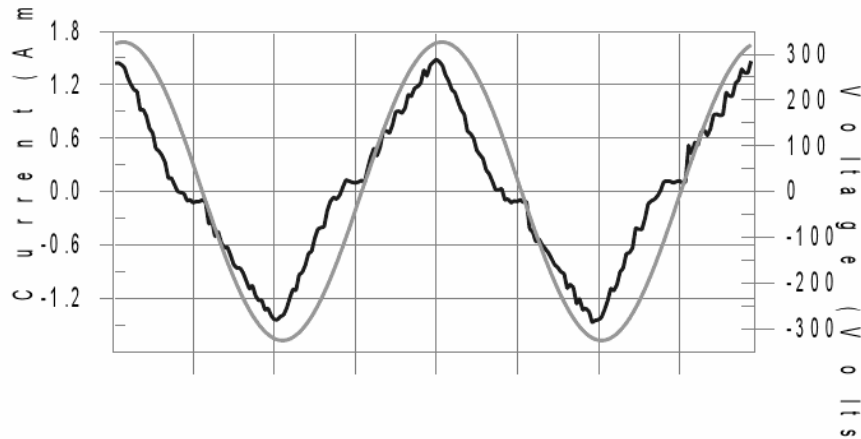
6/13/2018
5:11 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

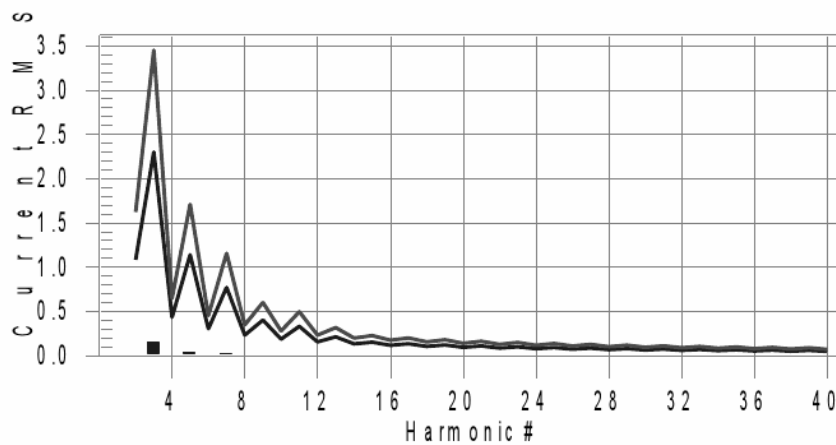
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/4/23
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N:FY08520000
Test Result: Pass
Source qualification: Normal

Tested by: Ivan
Test Margin: 100
Start time: 17:44:58
End time: 17:47:49
Data file name: H-000106.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #39 with 12.9% of the limit.

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6/13/2018
5:11 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:08520000
 Test Result: Pass
 THC(A): 0.164
 I-THD(%): 19.7
 Source qualification: Normal
 POHC(A): 0.027
 POHC Limit(A): 0.251
 Tested by: Ivan
 Test Margin: 100
 End time: 17:47:49
 Start time: 17:44:58
 Data file name: H-000106.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.45
 I_Peak (Amps): 1.531
 I_Fund (Amps): 0.834
 Power (Watts): 184.9
 Frequency(Hz): 50.00
 I_RMS (Amps): 0.851
 Crest Factor: 1.804
 Power Factor: 0.944

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.5	0.006	1.620	0.4	Pass
3	0.153	2.300	6.6	0.154	3.450	4.4	Pass
4	0.001	0.430	N/A	0.002	0.645	N/A	Pass
5	0.033	1.140	2.9	0.033	1.710	1.9	Pass
6	0.001	0.300	N/A	0.002	0.450	N/A	Pass
7	0.029	0.770	3.7	0.029	1.155	2.5	Pass
8	0.001	0.230	N/A	0.001	0.345	N/A	Pass
9	0.013	0.400	3.3	0.014	0.600	2.3	Pass
10	0.000	0.184	N/A	0.001	0.276	N/A	Pass
11	0.015	0.330	4.6	0.015	0.495	3.1	Pass
12	0.001	0.153	N/A	0.001	0.230	N/A	Pass
13	0.005	0.210	2.6	0.006	0.315	1.8	Pass
14	0.001	0.131	N/A	0.001	0.197	N/A	Pass
15	0.017	0.150	11.3	0.017	0.225	7.6	Pass
16	0.001	0.115	N/A	0.001	0.173	N/A	Pass
17	0.007	0.132	5.5	0.008	0.198	3.8	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.005	0.118	4.6	0.006	0.178	3.4	Pass
20	0.000	0.092	N/A	0.001	0.138	N/A	Pass
21	0.003	0.107	N/A	0.003	0.161	N/A	Pass
22	0.001	0.084	N/A	0.001	0.125	N/A	Pass
23	0.009	0.098	9.6	0.010	0.147	6.5	Pass
24	0.001	0.077	N/A	0.001	0.115	N/A	Pass
25	0.017	0.090	18.5	0.017	0.135	12.5	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.008	0.083	9.3	0.009	0.125	7.2	Pass
28	0.001	0.066	N/A	0.001	0.099	N/A	Pass
29	0.005	0.078	6.7	0.006	0.116	5.4	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.004	0.073	N/A	0.004	0.109	N/A	Pass
32	0.001	0.058	N/A	0.001	0.086	N/A	Pass
33	0.009	0.068	12.9	0.009	0.102	9.3	Pass
34	0.001	0.054	N/A	0.001	0.081	N/A	Pass
35	0.008	0.064	12.1	0.008	0.096	8.5	Pass
36	0.003	0.051	N/A	0.003	0.077	N/A	Pass
37	0.005	0.061	N/A	0.005	0.091	N/A	Pass
38	0.002	0.048	N/A	0.002	0.073	N/A	Pass
39	0.011	0.058	19.1	0.011	0.087	12.9	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass

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Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:08520000
 Test Result: Pass
 Source qualification: Normal

Tested by: Ivan
 Test Margin: 100
 Start time: 17:44:58
 End time: 17:47:49
 Data file name: H-000106.cts_data

Highest parameter values during test:

Voltage (Vrms): 230.45	Frequency(Hz): 50.00
I _{Peak} (Amps): 1.531	I _{RMS} (Amps): 0.851
I _{Fund} (Amps): 0.834	Crest Factor: 1.804
Power (Watts): 184.9	Power Factor: 0.944

Harm#	Harmonics	V-rms	Limit V-rms	% of Limit	Status
2		0.078	0.461	16.88	OK
3		0.566	2.074	27.31	OK
4		0.074	0.461	15.96	OK
5		0.057	0.921	6.17	OK
6		0.040	0.461	8.67	OK
7		0.029	0.691	4.27	OK
8		0.017	0.461	3.65	OK
9		0.032	0.461	6.87	OK
10		0.015	0.461	3.15	OK
11		0.018	0.230	7.95	OK
12		0.014	0.230	5.98	OK
13		0.009	0.230	3.92	OK
14		0.006	0.230	2.48	OK
15		0.010	0.230	4.51	OK
16		0.010	0.230	4.37	OK
17		0.009	0.230	3.92	OK
18		0.012	0.230	5.20	OK
19		0.017	0.230	7.40	OK
20		0.025	0.230	10.70	OK
21		0.010	0.230	4.41	OK
22		0.004	0.230	1.60	OK
23		0.010	0.230	4.52	OK
24		0.005	0.230	1.97	OK
25		0.018	0.230	7.64	OK
26		0.003	0.230	1.39	OK
27		0.011	0.230	4.58	OK
28		0.003	0.230	1.25	OK
29		0.010	0.230	4.30	OK
30		0.003	0.230	1.46	OK
31		0.006	0.230	2.50	OK
32		0.003	0.230	1.12	OK
33		0.013	0.230	5.69	OK
34		0.004	0.230	1.57	OK
35		0.013	0.230	5.45	OK
36		0.005	0.230	2.31	OK
37		0.010	0.230	4.42	OK
38		0.004	0.230	1.67	OK
39		0.023	0.230	9.86	OK
40		0.013	0.230	5.47	OK

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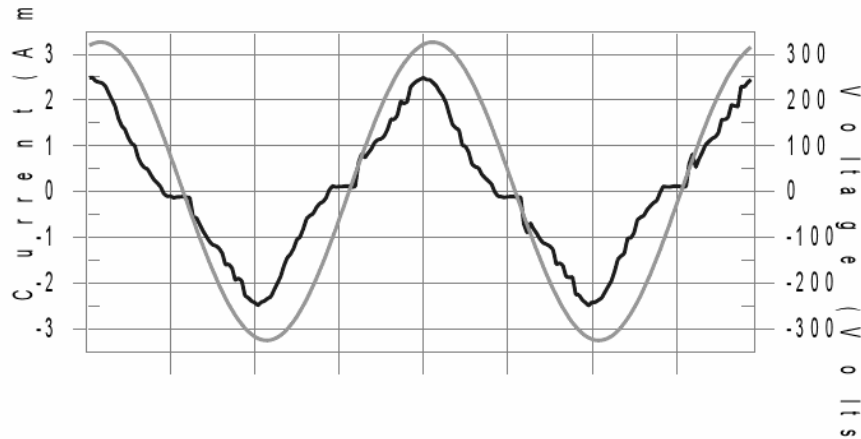
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5:11 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

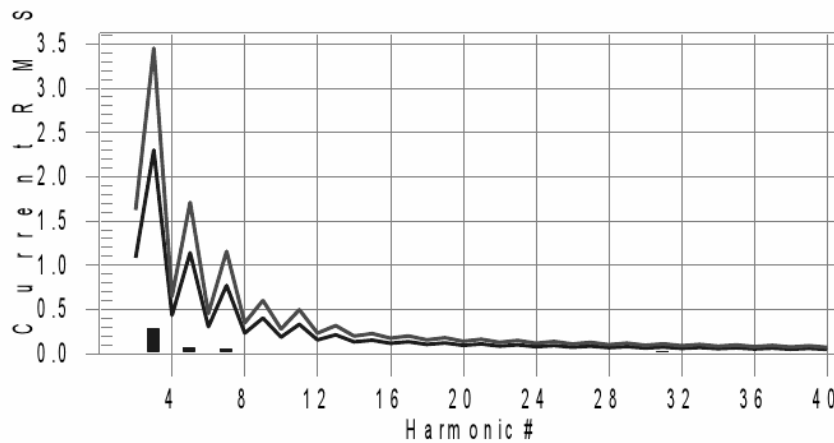
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/4/27
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N:FY15020000
Test Result: Pass
Source qualification: Normal

Tested by: Warden
Test Margin: 100
Start time: 18:06:18
End time: 18:09:10
Data file name: H-000275.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #31 with 26.0% of the limit.

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5:11 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/27
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY15020000
 Test Result: Pass
 THC(A): 0.300
 I-THD(%): 22.9
 Source qualification: Normal
 POHC(A): 0.048
 POHC Limit(A): 0.251
 Tested by: Warden
 Test Margin: 100
 End time: 18:09:10
 Start time: 18:06:18
 Data file name: H-000275.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.44
 I_Peak (Amps): 2.520
 I_Fund (Amps): 1.399
 Power (Watts): 313.4
 Frequency(Hz): 50.00
 I_RMS (Amps): 1.434
 Crest Factor: 1.804
 Power Factor: 0.949

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.011	1.080	1.0	0.013	1.620	0.8	Pass
3	0.281	2.300	12.2	0.294	3.450	8.5	Pass
4	0.002	0.430	N/A	0.003	0.645	N/A	Pass
5	0.064	1.140	5.6	0.066	1.710	3.9	Pass
6	0.001	0.300	N/A	0.002	0.450	N/A	Pass
7	0.053	0.770	6.9	0.057	1.155	4.9	Pass
8	0.001	0.230	N/A	0.001	0.345	N/A	Pass
9	0.022	0.400	5.5	0.028	0.600	4.6	Pass
10	0.001	0.184	N/A	0.001	0.276	N/A	Pass
11	0.020	0.330	6.2	0.021	0.495	4.2	Pass
12	0.002	0.153	N/A	0.002	0.230	N/A	Pass
13	0.017	0.210	7.9	0.028	0.315	8.8	Pass
14	0.001	0.131	N/A	0.001	0.197	N/A	Pass
15	0.006	0.150	N/A	0.010	0.225	N/A	Pass
16	0.001	0.115	N/A	0.002	0.173	N/A	Pass
17	0.020	0.132	15.4	0.024	0.198	12.2	Pass
18	0.001	0.102	N/A	0.002	0.153	N/A	Pass
19	0.014	0.118	11.7	0.019	0.178	10.6	Pass
20	0.001	0.092	N/A	0.002	0.138	N/A	Pass
21	0.010	0.107	9.4	0.017	0.161	10.6	Pass
22	0.001	0.084	N/A	0.001	0.125	N/A	Pass
23	0.012	0.098	12.2	0.015	0.147	10.0	Pass
24	0.001	0.077	N/A	0.002	0.115	N/A	Pass
25	0.019	0.090	21.1	0.021	0.135	15.5	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.017	0.083	20.1	0.019	0.125	15.0	Pass
28	0.002	0.066	N/A	0.003	0.099	N/A	Pass
29	0.012	0.078	15.5	0.019	0.116	16.2	Pass
30	0.003	0.061	N/A	0.003	0.092	N/A	Pass
31	0.025	0.073	34.7	0.028	0.109	26.0	Pass
32	0.003	0.058	N/A	0.003	0.086	N/A	Pass
33	0.008	0.068	12.2	0.018	0.102	17.2	Pass
34	0.003	0.054	N/A	0.003	0.081	N/A	Pass
35	0.009	0.064	13.8	0.014	0.096	14.3	Pass
36	0.003	0.051	N/A	0.004	0.077	N/A	Pass
37	0.018	0.061	30.0	0.020	0.091	22.0	Pass
38	0.002	0.048	N/A	0.003	0.073	N/A	Pass
39	0.011	0.058	19.4	0.013	0.087	14.7	Pass
40	0.002	0.046	N/A	0.002	0.069	N/A	Pass

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5:11 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER Tested by: Warden
 Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/4/27 Start time: 18:06:18 End time: 18:09:10
 Test duration (min): 2.5 Data file name: H-000275.cts_data
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY15020000
 Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.44	Frequency(Hz): 50.00
I_Peak (Amps): 2.520	I_RMS (Amps): 1.434
I_Fund (Amps): 1.399	Crest Factor: 1.804
Power (Watts): 313.4	Power Factor: 0.949

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.077	0.461	16.63	OK
3	0.591	2.073	28.52	OK
4	0.070	0.461	15.16	OK
5	0.048	0.921	5.25	OK
6	0.040	0.461	8.58	OK
7	0.035	0.691	5.11	OK
8	0.013	0.461	2.92	OK
9	0.033	0.461	7.16	OK
10	0.012	0.461	2.59	OK
11	0.017	0.230	7.34	OK
12	0.016	0.230	6.89	OK
13	0.014	0.230	6.24	OK
14	0.006	0.230	2.58	OK
15	0.018	0.230	7.86	OK
16	0.011	0.230	4.84	OK
17	0.020	0.230	8.55	OK
18	0.013	0.230	5.64	OK
19	0.020	0.230	8.48	OK
20	0.024	0.230	10.47	OK
21	0.014	0.230	6.00	OK
22	0.003	0.230	1.50	OK
23	0.012	0.230	5.39	OK
24	0.005	0.230	2.05	OK
25	0.021	0.230	9.08	OK
26	0.004	0.230	1.60	OK
27	0.020	0.230	8.82	OK
28	0.006	0.230	2.49	OK
29	0.023	0.230	9.83	OK
30	0.006	0.230	2.39	OK
31	0.033	0.230	14.50	OK
32	0.006	0.230	2.41	OK
33	0.020	0.230	8.50	OK
34	0.006	0.230	2.42	OK
35	0.019	0.230	8.13	OK
36	0.007	0.230	2.96	OK
37	0.032	0.230	14.01	OK
38	0.005	0.230	2.26	OK
39	0.021	0.230	9.17	OK
40	0.014	0.230	6.09	OK

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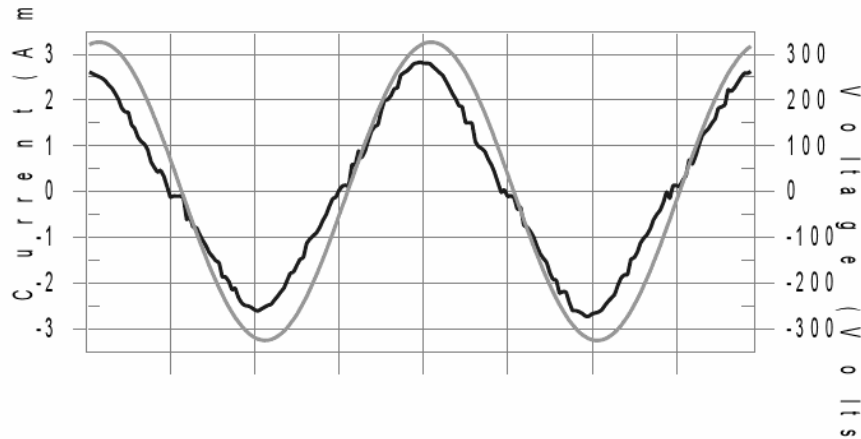
6/13/2018
5:12 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

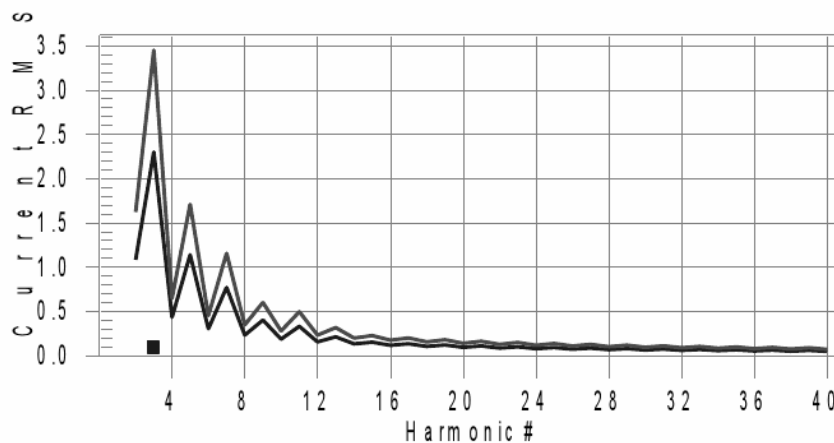
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/4/23
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N:FY22517000
Test Result: Pass
Source qualification: Normal

Tested by: Ivan
Test Margin: 100
End time: 17:31:48
Data file name: H-000103.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #37 with 14.1% of the limit.

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6/13/2018
5:12 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 Tested by: Ivan
 Test Margin: 100
 End time: 17:31:48
 Start time: 17:28:56
 Data file name: H-000103.cts_data

Test Result: Pass Source qualification: Normal
 THC(A): 0.170 I-THD(%): 10.2 POHC(A): 0.021 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 230.43 Frequency(Hz): 50.00
 I_Peak (Amps): 2.872 I_RMS (Amps): 1.696
 I_Fund (Amps): 1.677 Crest Factor: 1.716
 Power (Watts): 381.2 Power Factor: 0.981

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.005	1.080	N/A	0.007	1.620	N/A	Pass
3	0.164	2.300	7.1	0.165	3.450	4.8	Pass
4	0.002	0.430	N/A	0.002	0.645	N/A	Pass
5	0.011	1.140	1.0	0.012	1.710	0.7	Pass
6	0.001	0.300	N/A	0.002	0.450	N/A	Pass
7	0.019	0.770	2.5	0.020	1.155	1.7	Pass
8	0.001	0.230	N/A	0.001	0.345	N/A	Pass
9	0.014	0.400	3.5	0.014	0.600	2.4	Pass
10	0.001	0.184	N/A	0.001	0.276	N/A	Pass
11	0.006	0.330	N/A	0.006	0.495	N/A	Pass
12	0.001	0.153	N/A	0.001	0.230	N/A	Pass
13	0.014	0.210	6.7	0.015	0.315	4.6	Pass
14	0.001	0.131	N/A	0.001	0.197	N/A	Pass
15	0.008	0.150	N/A	0.008	0.225	N/A	Pass
16	0.001	0.115	N/A	0.001	0.173	N/A	Pass
17	0.011	0.132	8.5	0.012	0.198	5.9	Pass
18	0.001	0.102	N/A	0.001	0.153	N/A	Pass
19	0.019	0.118	16.4	0.020	0.178	11.2	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.009	0.107	N/A	0.009	0.161	N/A	Pass
22	0.001	0.084	N/A	0.001	0.125	N/A	Pass
23	0.001	0.098	N/A	0.002	0.147	N/A	Pass
24	0.001	0.077	N/A	0.001	0.115	N/A	Pass
25	0.006	0.090	N/A	0.006	0.135	N/A	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.011	0.083	12.6	0.012	0.125	9.4	Pass
28	0.001	0.066	N/A	0.001	0.099	N/A	Pass
29	0.013	0.078	16.8	0.013	0.116	11.6	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.007	0.073	N/A	0.008	0.109	N/A	Pass
32	0.001	0.058	N/A	0.003	0.086	N/A	Pass
33	0.007	0.068	N/A	0.008	0.102	N/A	Pass
34	0.001	0.054	N/A	0.002	0.081	N/A	Pass
35	0.005	0.064	N/A	0.006	0.096	N/A	Pass
36	0.001	0.051	N/A	0.002	0.077	N/A	Pass
37	0.012	0.061	20.3	0.013	0.091	14.1	Pass
38	0.001	0.048	N/A	0.002	0.073	N/A	Pass
39	0.005	0.058	N/A	0.005	0.087	N/A	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass

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San Diego, California

6/13/2018
5:12 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 Tested by: Ivan
 Test Margin: 100
 End time: 17:31:48
 Start time: 17:28:56
 Data file name: H-000103.cts_data

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.43	Frequency(Hz): 50.00
I _{Peak} (Amps): 2.872	I _{RMS} (Amps): 1.696
I _{Fund} (Amps): 1.677	Crest Factor: 1.716
Power (Watts): 381.2	Power Factor: 0.981

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.067	0.461	14.55	OK
3	0.580	2.073	27.98	OK
4	0.071	0.461	15.38	OK
5	0.056	0.921	6.12	OK
6	0.039	0.461	8.40	OK
7	0.028	0.691	4.05	OK
8	0.016	0.461	3.42	OK
9	0.035	0.461	7.54	OK
10	0.013	0.461	2.90	OK
11	0.012	0.230	5.39	OK
12	0.013	0.230	5.69	OK
13	0.011	0.230	4.64	OK
14	0.005	0.230	2.21	OK
15	0.010	0.230	4.15	OK
16	0.010	0.230	4.54	OK
17	0.011	0.230	4.70	OK
18	0.011	0.230	4.79	OK
19	0.023	0.230	9.80	OK
20	0.024	0.230	10.21	OK
21	0.011	0.230	4.60	OK
22	0.004	0.230	1.85	OK
23	0.005	0.230	2.38	OK
24	0.004	0.230	1.82	OK
25	0.008	0.230	3.45	OK
26	0.003	0.230	1.15	OK
27	0.012	0.230	5.22	OK
28	0.004	0.230	1.60	OK
29	0.013	0.230	5.83	OK
30	0.004	0.230	1.66	OK
31	0.010	0.230	4.22	OK
32	0.003	0.230	1.34	OK
33	0.013	0.230	5.74	OK
34	0.004	0.230	1.93	OK
35	0.009	0.230	4.03	OK
36	0.003	0.230	1.52	OK
37	0.017	0.230	7.40	OK
38	0.004	0.230	1.70	OK
39	0.008	0.230	3.40	OK
40	0.013	0.230	5.61	OK

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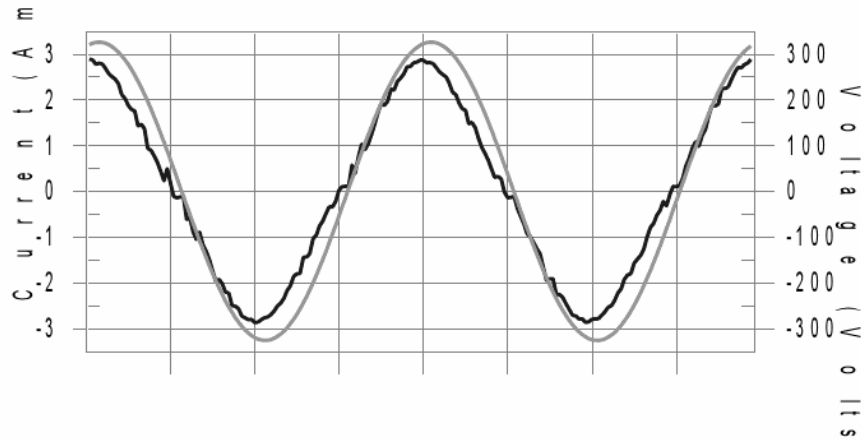
6/13/2018
5:12 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

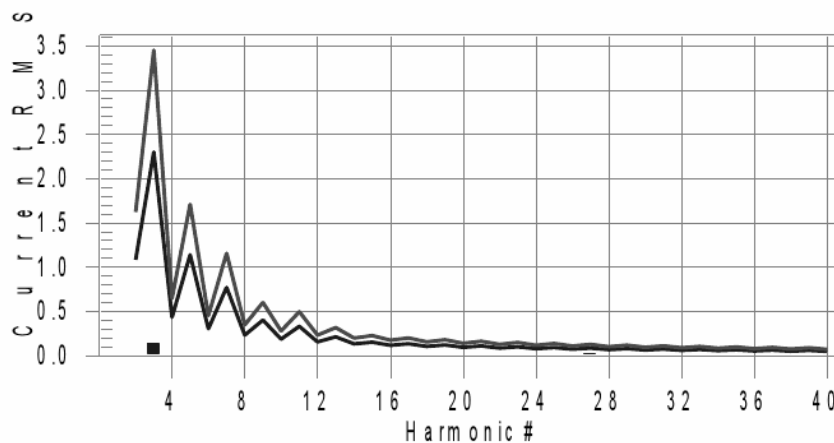
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/4/23
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N: FY32012000
Test Result: Pass Source qualification: Normal

Tested by: Ivan
Test Margin: 100
Start time: 16:52:43
End time: 16:55:34
Data file name: H-000097.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #27 with 23.7% of the limit.

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6/13/2018
5:12 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N: FY32012000
 Test Result: Pass
 THC(A): 0.150
 I-THD(%): 8.0
 Source qualification: Normal
 POHC(A): 0.045
 POHC Limit(A): 0.251
 Tested by: Ivan
 Test Margin: 100
 End time: 16:55:34
 Start time: 16:52:43
 Data file name: H-000097.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.44
 I_Peak (Amps): 2.919
 I_Fund (Amps): 1.887
 Power (Watts): 429.6
 Frequency(Hz): 50.00
 I_RMS (Amps): 1.893
 Crest Factor: 1.544
 Power Factor: 0.985

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	1.080	N/A	0.002	1.620	N/A	Pass
3	0.133	2.300	5.8	0.134	3.450	3.9	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.017	1.140	1.5	0.017	1.710	1.0	Pass
6	0.000	0.300	N/A	0.000	0.450	N/A	Pass
7	0.021	0.770	2.7	0.021	1.155	1.8	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.012	0.400	3.1	0.013	0.600	2.1	Pass
10	0.000	0.184	N/A	0.001	0.276	N/A	Pass
11	0.019	0.330	5.7	0.019	0.495	3.8	Pass
12	0.000	0.153	N/A	0.001	0.230	N/A	Pass
13	0.009	0.210	N/A	0.009	0.315	N/A	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.023	0.150	15.1	0.023	0.225	10.2	Pass
16	0.001	0.115	N/A	0.001	0.173	N/A	Pass
17	0.020	0.132	15.4	0.021	0.198	10.4	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.017	0.118	14.5	0.018	0.178	9.9	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.012	0.107	11.3	0.012	0.161	7.8	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.008	0.098	N/A	0.008	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.009	0.090	N/A	0.010	0.135	N/A	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.029	0.083	34.4	0.030	0.125	23.7	Pass
28	0.001	0.066	N/A	0.002	0.099	N/A	Pass
29	0.018	0.078	22.9	0.020	0.116	16.8	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.012	0.073	16.7	0.012	0.109	11.5	Pass
32	0.001	0.058	N/A	0.001	0.086	N/A	Pass
33	0.011	0.068	16.6	0.012	0.102	11.9	Pass
34	0.001	0.054	N/A	0.002	0.081	N/A	Pass
35	0.021	0.064	32.7	0.021	0.096	22.2	Pass
36	0.001	0.051	N/A	0.001	0.077	N/A	Pass
37	0.004	0.061	N/A	0.005	0.091	N/A	Pass
38	0.001	0.048	N/A	0.001	0.073	N/A	Pass
39	0.011	0.058	N/A	0.014	0.087	N/A	Pass
40	0.001	0.046	N/A	0.001	0.069	N/A	Pass

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6/13/2018
5:12 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N: FY32012000
 Test Result: Pass

Tested by: Ivan
 Test Margin: 100
 End time: 16:55:34
 Start time: 16:52:43
 Data file name: H-000097.cts_data
 Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.44	Frequency(Hz): 50.00
I _{Peak} (Amps): 2.919	I _{RMS} (Amps): 1.893
I _{Fund} (Amps): 1.887	Crest Factor: 1.544
Power (Watts): 429.6	Power Factor: 0.985

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.074	0.461	15.97	OK
3	0.585	2.073	28.22	OK
4	0.079	0.461	17.17	OK
5	0.064	0.921	6.93	OK
6	0.043	0.461	9.33	OK
7	0.031	0.691	4.48	OK
8	0.018	0.461	3.87	OK
9	0.033	0.461	7.15	OK
10	0.016	0.461	3.48	OK
11	0.015	0.230	6.35	OK
12	0.015	0.230	6.67	OK
13	0.007	0.230	3.05	OK
14	0.005	0.230	2.39	OK
15	0.015	0.230	6.36	OK
16	0.014	0.230	6.10	OK
17	0.015	0.230	6.40	OK
18	0.014	0.230	6.18	OK
19	0.017	0.230	7.55	OK
20	0.024	0.230	10.23	OK
21	0.014	0.230	5.87	OK
22	0.005	0.230	2.23	OK
23	0.011	0.230	4.91	OK
24	0.005	0.230	2.20	OK
25	0.012	0.230	5.06	OK
26	0.004	0.230	1.80	OK
27	0.028	0.230	12.04	OK
28	0.005	0.230	2.23	OK
29	0.018	0.230	7.68	OK
30	0.004	0.230	1.67	OK
31	0.017	0.230	7.45	OK
32	0.003	0.230	1.10	OK
33	0.012	0.230	5.30	OK
34	0.003	0.230	1.21	OK
35	0.030	0.230	13.01	OK
36	0.003	0.230	1.42	OK
37	0.005	0.230	2.01	OK
38	0.004	0.230	1.69	OK
39	0.018	0.230	7.64	OK
40	0.012	0.230	5.15	OK

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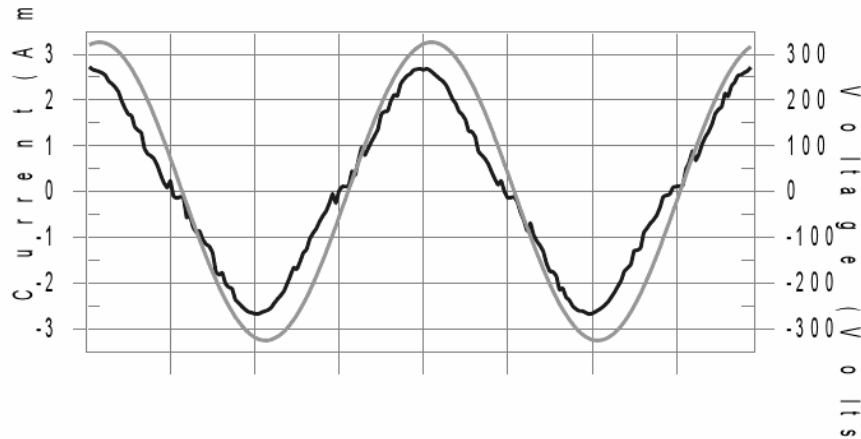
6/13/2018
5:12 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

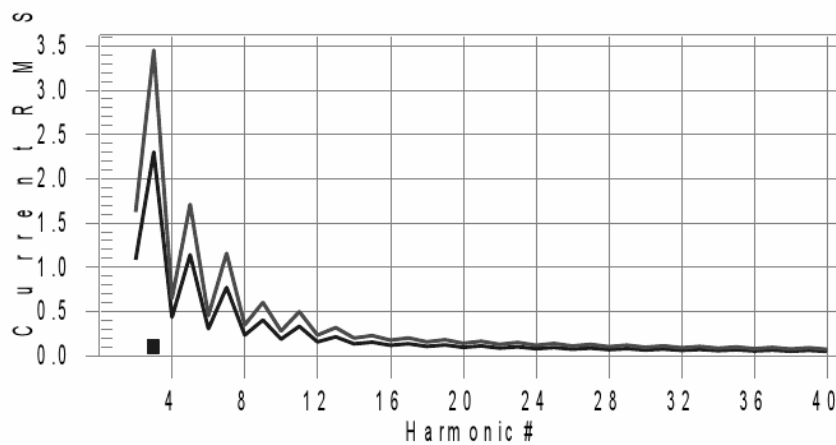
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/5/7
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N:FY54607000
Test Result: Pass Source qualification: Normal

Tested by: Warden
Test Margin: 100
Start time: 14:46:07
End time: 14:48:59
Data file name: H-000196.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #33 with 28.0% of the limit.

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6/13/2018
5:12 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/5/7
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY54607000
 Test Result: Pass
 THC(A): 0.196
 I-THD(%): 12.2
 Source qualification: Normal
 POHC(A): 0.036
 POHC Limit(A): 0.251
 Tested by: Warden
 Test Margin: 100
 End time: 14:48:59
 Start time: 14:46:07
 Data file name: H-000196.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.45
 I_Peak (Amps): 2.726
 I_Fund (Amps): 1.728
 Power (Watts): 392.7
 Frequency(Hz): 50.00
 I_RMS (Amps): 1.739
 Crest Factor: 1.618
 Power Factor: 0.980

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	1.080	N/A	0.003	1.620	N/A	Pass
3	0.189	2.300	8.2	0.198	3.450	5.7	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.008	1.140	N/A	0.015	1.710	N/A	Pass
6	0.001	0.300	N/A	0.001	0.450	N/A	Pass
7	0.009	0.770	1.2	0.019	1.155	1.7	Pass
8	0.000	0.230	N/A	0.001	0.345	N/A	Pass
9	0.019	0.400	4.6	0.025	0.600	4.1	Pass
10	0.000	0.184	N/A	0.001	0.276	N/A	Pass
11	0.011	0.330	3.4	0.014	0.495	2.8	Pass
12	0.000	0.153	N/A	0.000	0.230	N/A	Pass
13	0.020	0.210	9.5	0.023	0.315	7.4	Pass
14	0.000	0.131	N/A	0.001	0.197	N/A	Pass
15	0.015	0.150	10.1	0.023	0.225	10.3	Pass
16	0.000	0.115	N/A	0.000	0.173	N/A	Pass
17	0.009	0.132	N/A	0.011	0.198	N/A	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.013	0.118	10.9	0.024	0.178	13.6	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.013	0.107	12.4	0.015	0.161	9.5	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.010	0.098	10.1	0.014	0.147	9.8	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.011	0.090	11.8	0.016	0.135	11.9	Pass
26	0.000	0.071	N/A	0.001	0.107	N/A	Pass
27	0.009	0.083	11.4	0.014	0.125	11.4	Pass
28	0.001	0.066	N/A	0.001	0.099	N/A	Pass
29	0.010	0.078	12.9	0.016	0.116	13.4	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.013	0.073	18.5	0.017	0.109	15.7	Pass
32	0.001	0.058	N/A	0.002	0.086	N/A	Pass
33	0.012	0.068	17.7	0.029	0.102	28.0	Pass
34	0.001	0.054	N/A	0.002	0.081	N/A	Pass
35	0.008	0.064	N/A	0.014	0.096	N/A	Pass
36	0.001	0.051	N/A	0.001	0.077	N/A	Pass
37	0.013	0.061	21.5	0.018	0.091	19.9	Pass
38	0.001	0.048	N/A	0.002	0.073	N/A	Pass
39	0.014	0.058	24.2	0.024	0.087	27.2	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass

California Instruments
San Diego, California

6/13/2018
5:12 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/5/7
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY54607000
 Test Result: Pass

Tested by: Warden
 Test Margin: 100
 End time: 14:48:59
 Start time: 14:46:07
 Data file name: H-000196.cts_data
 Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.45
 I_{Peak} (Amps): 2.726
 I_{Fund} (Amps): 1.728
 Power (Watts): 392.7

Frequency(Hz): 50.00
 I_{RMS} (Amps): 1.739
 Crest Factor: 1.618
 Power Factor: 0.980

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.079	0.461	17.23	OK
3	0.589	2.073	28.42	OK
4	0.071	0.461	15.47	OK
5	0.065	0.921	7.05	OK
6	0.041	0.461	8.82	OK
7	0.032	0.691	4.62	OK
8	0.013	0.461	2.78	OK
9	0.038	0.461	8.18	OK
10	0.014	0.461	3.03	OK
11	0.014	0.230	6.03	OK
12	0.015	0.230	6.44	OK
13	0.012	0.230	5.42	OK
14	0.006	0.230	2.41	OK
15	0.010	0.230	4.21	OK
16	0.012	0.230	5.40	OK
17	0.012	0.230	5.41	OK
18	0.013	0.230	5.52	OK
19	0.027	0.230	11.63	OK
20	0.026	0.230	11.10	OK
21	0.014	0.230	5.86	OK
22	0.003	0.230	1.51	OK
23	0.012	0.230	5.11	OK
24	0.003	0.230	1.46	OK
25	0.017	0.230	7.37	OK
26	0.003	0.230	1.26	OK
27	0.017	0.230	7.49	OK
28	0.004	0.230	1.58	OK
29	0.017	0.230	7.56	OK
30	0.004	0.230	1.72	OK
31	0.023	0.230	9.99	OK
32	0.004	0.230	1.59	OK
33	0.034	0.230	14.78	OK
34	0.003	0.230	1.42	OK
35	0.017	0.230	7.50	OK
36	0.004	0.230	1.62	OK
37	0.026	0.230	11.30	OK
38	0.004	0.230	1.93	OK
39	0.038	0.230	16.39	OK
40	0.013	0.230	5.48	OK

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San Diego, California

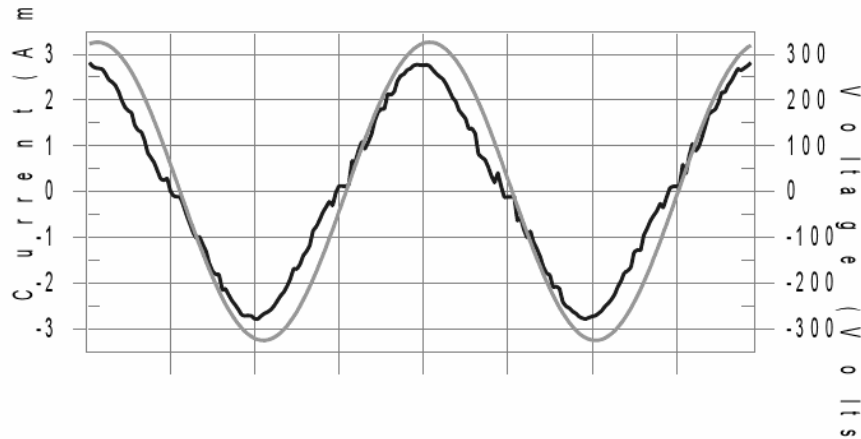
6/13/2018
5:13 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

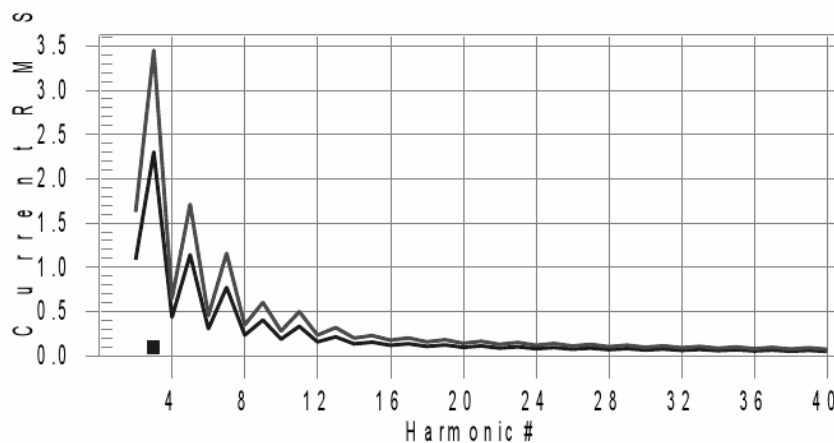
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/5/7
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N: FY64806000
Test Result: Pass
Source qualification: Normal

Tested by: Warden
Test Margin: 100
Start time: 14:35:09
End time: 14:38:01
Data file name: H-000195.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #33 with 28.0% of the limit.

California Instruments
San Diego, California

6/13/2018
5:13 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/5/7
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N: FY64806000
 Test Result: Pass
 THC(A): 0.182
 I-THD(%): 10.7
 Source qualification: Normal
 POHC(A): 0.040
 POHC Limit(A): 0.251
 Tested by: Warden
 Test Margin: 100
 End time: 14:38:01
 Start time: 14:35:09
 Data file name: H-000195.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.45
 I_Peak (Amps): 2.821
 I_Fund (Amps): 1.826
 Power (Watts): 415.3
 Frequency(Hz): 50.00
 I_RMS (Amps): 1.834
 Crest Factor: 1.596
 Power Factor: 0.983

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	1.080	N/A	0.003	1.620	N/A	Pass
3	0.173	2.300	7.5	0.179	3.450	5.2	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.011	1.140	1.0	0.019	1.710	1.1	Pass
6	0.000	0.300	N/A	0.001	0.450	N/A	Pass
7	0.009	0.770	N/A	0.018	1.155	N/A	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.012	0.400	3.0	0.015	0.600	2.5	Pass
10	0.000	0.184	N/A	0.001	0.276	N/A	Pass
11	0.014	0.330	4.2	0.017	0.495	3.5	Pass
12	0.000	0.153	N/A	0.001	0.230	N/A	Pass
13	0.019	0.210	9.2	0.023	0.315	7.3	Pass
14	0.000	0.131	N/A	0.001	0.197	N/A	Pass
15	0.020	0.150	13.6	0.025	0.225	10.9	Pass
16	0.000	0.115	N/A	0.001	0.173	N/A	Pass
17	0.008	0.132	N/A	0.020	0.198	N/A	Pass
18	0.000	0.102	N/A	0.000	0.153	N/A	Pass
19	0.007	0.118	N/A	0.017	0.178	N/A	Pass
20	0.000	0.092	N/A	0.001	0.138	N/A	Pass
21	0.012	0.107	10.9	0.015	0.161	9.0	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.012	0.098	12.4	0.015	0.147	10.5	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.014	0.090	15.9	0.017	0.135	12.9	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.010	0.083	12.4	0.030	0.125	24.4	Pass
28	0.001	0.066	N/A	0.002	0.099	N/A	Pass
29	0.009	0.078	N/A	0.021	0.116	N/A	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.013	0.073	18.4	0.018	0.109	16.8	Pass
32	0.001	0.058	N/A	0.002	0.086	N/A	Pass
33	0.021	0.068	30.9	0.029	0.102	28.0	Pass
34	0.001	0.054	N/A	0.002	0.081	N/A	Pass
35	0.013	0.064	20.5	0.022	0.096	23.1	Pass
36	0.001	0.051	N/A	0.001	0.077	N/A	Pass
37	0.007	0.061	N/A	0.011	0.091	N/A	Pass
38	0.001	0.048	N/A	0.001	0.073	N/A	Pass
39	0.014	0.058	23.8	0.022	0.087	25.9	Pass
40	0.001	0.046	N/A	0.001	0.069	N/A	Pass

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6/13/2018
5:13 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER Tested by: Warden
 Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2018/5/7 Start time: 14:35:09 End time: 14:38:01
 Test duration (min): 2.5 Data file name: H-000195.cts_data
 Comment: Full Load
 Customer: Fuyuan
 M/N: FY64806000
 Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.45	Frequency(Hz): 50.00
I _{Peak} (Amps): 2.821	I _{RMS} (Amps): 1.834
I _{Fund} (Amps): 1.826	Crest Factor: 1.596
Power (Watts): 415.3	Power Factor: 0.983

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.071	0.461	15.30	OK
3	0.596	2.074	28.74	OK
4	0.075	0.461	16.23	OK
5	0.066	0.922	7.14	OK
6	0.043	0.461	9.27	OK
7	0.033	0.691	4.74	OK
8	0.014	0.461	3.13	OK
9	0.035	0.461	7.67	OK
10	0.014	0.461	3.11	OK
11	0.012	0.230	5.20	OK
12	0.015	0.230	6.37	OK
13	0.013	0.230	5.74	OK
14	0.005	0.230	2.39	OK
15	0.011	0.230	4.82	OK
16	0.013	0.230	5.50	OK
17	0.012	0.230	5.31	OK
18	0.011	0.230	4.94	OK
19	0.015	0.230	6.68	OK
20	0.026	0.230	11.38	OK
21	0.013	0.230	5.80	OK
22	0.004	0.230	1.67	OK
23	0.015	0.230	6.39	OK
24	0.004	0.230	1.76	OK
25	0.018	0.230	7.85	OK
26	0.004	0.230	1.93	OK
27	0.025	0.230	10.69	OK
28	0.004	0.230	1.95	OK
29	0.018	0.230	7.91	OK
30	0.005	0.230	2.00	OK
31	0.024	0.230	10.31	OK
32	0.004	0.230	1.93	OK
33	0.035	0.230	15.08	OK
34	0.004	0.230	1.63	OK
35	0.031	0.230	13.30	OK
36	0.004	0.230	1.82	OK
37	0.018	0.230	7.85	OK
38	0.003	0.230	1.45	OK
39	0.036	0.230	15.71	OK
40	0.012	0.230	5.14	OK

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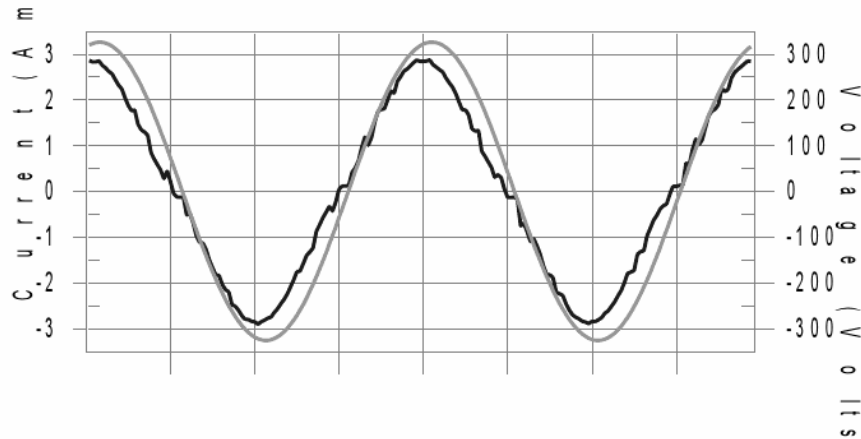
6/13/2018
5:13 PM

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

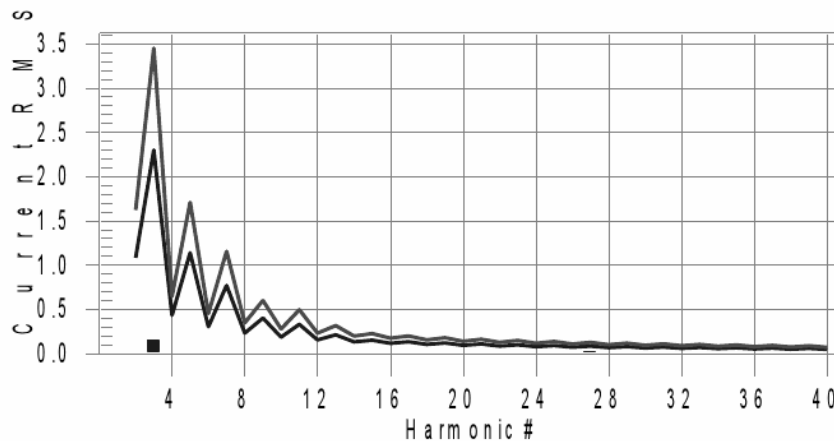
EUT: BATTERY CHARGER
Test category: Class-A per Ed. 4.0 (2014) (European limits)
Test date: 2018/4/23
Test duration (min): 2.5
Comment: Full Load
Customer: Fuyuan
M/N:FY87004500
Test Result: Pass Source qualification: Normal

Tested by: Ivan
Test Margin: 100
Start time: 17:11:29
End time: 17:14:21
Data file name: H-000099.cts_data

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #33 with 28.6% of the limit.

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6/13/2018
5:13 PM

Current Test Result Summary (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY87004500
 Test Result: Pass
 THC(A): 0.173
 I-THD(%): 9.5
 Source qualification: Normal
 POHC(A): 0.043
 POHC Limit(A): 0.251
 Tested by: Ivan
 Test Margin: 100
 End time: 17:14:21
 Start time: 17:11:29
 Data file name: H-000099.cts_data

Highest parameter values during test:

V_RMS (Volts): 230.44
 I_Peak (Amps): 2.918
 I_Fund (Amps): 1.888
 Power (Watts): 429.8
 Frequency(Hz): 50.00
 I_RMS (Amps): 1.897
 Crest Factor: 1.574
 Power Factor: 0.984

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	1.080	N/A	0.002	1.620	N/A	Pass
3	0.161	2.300	7.0	0.176	3.450	5.1	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.016	1.140	1.4	0.019	1.710	1.1	Pass
6	0.000	0.300	N/A	0.001	0.450	N/A	Pass
7	0.015	0.770	1.9	0.021	1.155	1.8	Pass
8	0.000	0.230	N/A	0.000	0.345	N/A	Pass
9	0.014	0.400	3.5	0.018	0.600	3.0	Pass
10	0.000	0.184	N/A	0.000	0.276	N/A	Pass
11	0.016	0.330	4.8	0.018	0.495	3.7	Pass
12	0.000	0.153	N/A	0.001	0.230	N/A	Pass
13	0.010	0.210	N/A	0.023	0.315	N/A	Pass
14	0.000	0.131	N/A	0.001	0.197	N/A	Pass
15	0.023	0.150	15.1	0.025	0.225	11.1	Pass
16	0.001	0.115	N/A	0.001	0.173	N/A	Pass
17	0.016	0.132	12.2	0.023	0.198	11.4	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.015	0.118	12.3	0.020	0.178	11.2	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.011	0.107	N/A	0.013	0.161	N/A	Pass
22	0.000	0.084	N/A	0.000	0.125	N/A	Pass
23	0.007	0.098	N/A	0.016	0.147	N/A	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.013	0.090	14.0	0.018	0.135	13.5	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.024	0.083	28.4	0.031	0.125	24.9	Pass
28	0.001	0.066	N/A	0.002	0.099	N/A	Pass
29	0.017	0.078	21.7	0.026	0.116	22.2	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.012	0.073	16.9	0.019	0.109	17.0	Pass
32	0.001	0.058	N/A	0.002	0.086	N/A	Pass
33	0.014	0.068	20.0	0.029	0.102	28.6	Pass
34	0.001	0.054	N/A	0.001	0.081	N/A	Pass
35	0.018	0.064	28.0	0.022	0.096	22.6	Pass
36	0.001	0.051	N/A	0.001	0.077	N/A	Pass
37	0.008	0.061	N/A	0.013	0.091	N/A	Pass
38	0.001	0.048	N/A	0.001	0.073	N/A	Pass
39	0.012	0.058	21.6	0.019	0.087	21.7	Pass
40	0.001	0.046	N/A	0.002	0.069	N/A	Pass

California Instruments
San Diego, California

6/13/2018
5:13 PM

Voltage Source Verification Data (Run time)

EUT: BATTERY CHARGER
 Test category: Class-A per Ed. 4.0 (2014) (European limits)
 Test date: 2018/4/23
 Test duration (min): 2.5
 Comment: Full Load
 Customer: Fuyuan
 M/N:FY87004500
 Test Result: Pass

Tested by: Ivan
 Test Margin: 100
 End time: 17:14:21
 Start time: 17:11:29
 Data file name: H-000099.cts_data
 Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.44	Frequency(Hz): 50.00
I _{Peak} (Amps): 2.918	I _{RMS} (Amps): 1.897
I _{Fund} (Amps): 1.888	Crest Factor: 1.574
Power (Watts): 429.8	Power Factor: 0.984

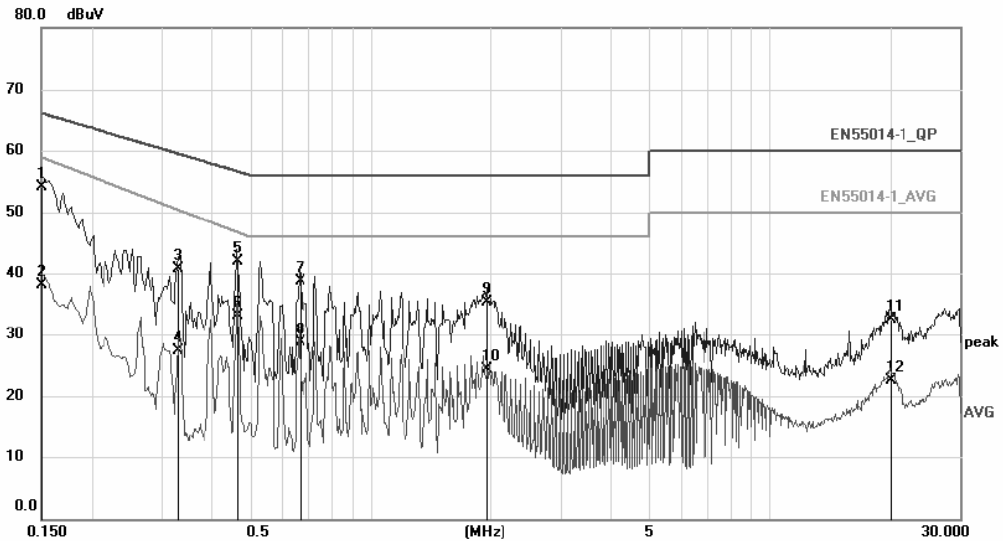
Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.062	0.461	13.43	OK
3	0.591	2.073	28.52	OK
4	0.055	0.461	11.86	OK
5	0.066	0.921	7.21	OK
6	0.045	0.461	9.81	OK
7	0.030	0.691	4.41	OK
8	0.018	0.461	4.01	OK
9	0.037	0.461	8.05	OK
10	0.017	0.461	3.61	OK
11	0.014	0.230	6.05	OK
12	0.017	0.230	7.19	OK
13	0.009	0.230	4.01	OK
14	0.005	0.230	2.34	OK
15	0.014	0.230	5.94	OK
16	0.012	0.230	5.26	OK
17	0.015	0.230	6.57	OK
18	0.012	0.230	5.15	OK
19	0.021	0.230	9.32	OK
20	0.026	0.230	11.18	OK
21	0.013	0.230	5.69	OK
22	0.004	0.230	1.79	OK
23	0.012	0.230	5.32	OK
24	0.004	0.230	1.94	OK
25	0.018	0.230	7.77	OK
26	0.004	0.230	1.94	OK
27	0.027	0.230	11.78	OK
28	0.005	0.230	2.27	OK
29	0.025	0.230	10.74	OK
30	0.003	0.230	1.39	OK
31	0.019	0.230	8.46	OK
32	0.003	0.230	1.36	OK
33	0.035	0.230	15.02	OK
34	0.003	0.230	1.21	OK
35	0.030	0.230	12.88	OK
36	0.003	0.230	1.44	OK
37	0.018	0.230	7.71	OK
38	0.005	0.230	2.04	OK
39	0.028	0.230	12.10	OK
40	0.012	0.230	5.33	OK



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Conducted Emission Measurement

File : FY08520000 Data : #1 Date : 2018-4-24 Time : 9:47:13



Site: Phase: **L1** Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTER CHARGER
M/N: FY08520000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	43.40	10.80	54.20	66.00	-11.80	QP	
2		0.1500	27.30	10.80	38.10	59.00	-20.90	AVG	
3		0.3300	29.90	10.80	40.70	59.45	-18.75	QP	
4		0.3300	16.60	10.80	27.40	50.49	-23.09	AVG	
5		0.4660	31.10	10.80	41.90	56.58	-14.68	QP	
6		0.4660	22.40	10.80	33.20	46.76	-13.56	AVG	
7		0.6660	27.90	10.80	38.70	56.00	-17.30	QP	
8		0.6660	17.90	10.80	28.70	46.00	-17.30	AVG	
9		1.9500	24.60	10.80	35.40	56.00	-20.60	QP	
10		1.9500	13.60	10.80	24.40	46.00	-21.60	AVG	
11		20.0220	21.80	10.80	32.60	60.00	-27.40	QP	
12		20.0220	11.70	10.80	22.50	50.00	-27.50	AVG	

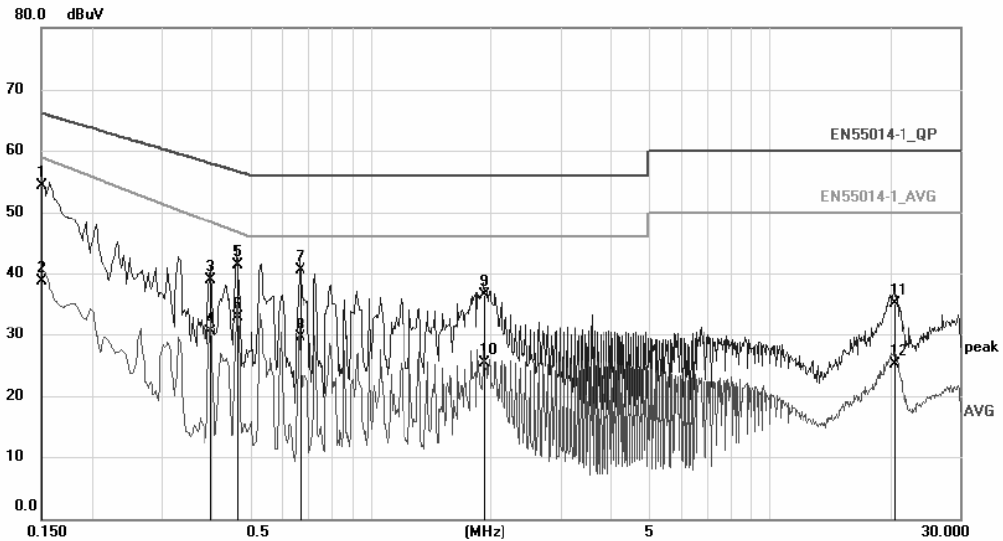
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File : FY08520000 Data : #2 Date : 2018-4-24 Time : 9:54:57



Site: Phase: **N** Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTER CHARGER
M/N: FY08520000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	43.60	10.80	54.40	66.00	-11.60	QP	
2		0.1500	28.00	10.80	38.80	59.00	-20.20	AVG	
3		0.3980	28.20	10.80	39.00	57.90	-18.90	QP	
4		0.3980	19.70	10.80	30.50	48.46	-17.96	AVG	
5		0.4660	30.50	10.80	41.30	56.58	-15.28	QP	
6		0.4660	22.20	10.80	33.00	46.76	-13.76	AVG	
7		0.6660	29.70	10.80	40.50	56.00	-15.50	QP	
8		0.6660	18.70	10.80	29.50	46.00	-16.50	AVG	
9		1.9220	25.70	10.80	36.50	56.00	-19.50	QP	
10		1.9220	14.60	10.80	25.40	46.00	-20.60	AVG	
11		20.4140	24.40	10.80	35.20	60.00	-24.80	QP	
12		20.4140	14.30	10.80	25.10	50.00	-24.90	AVG	

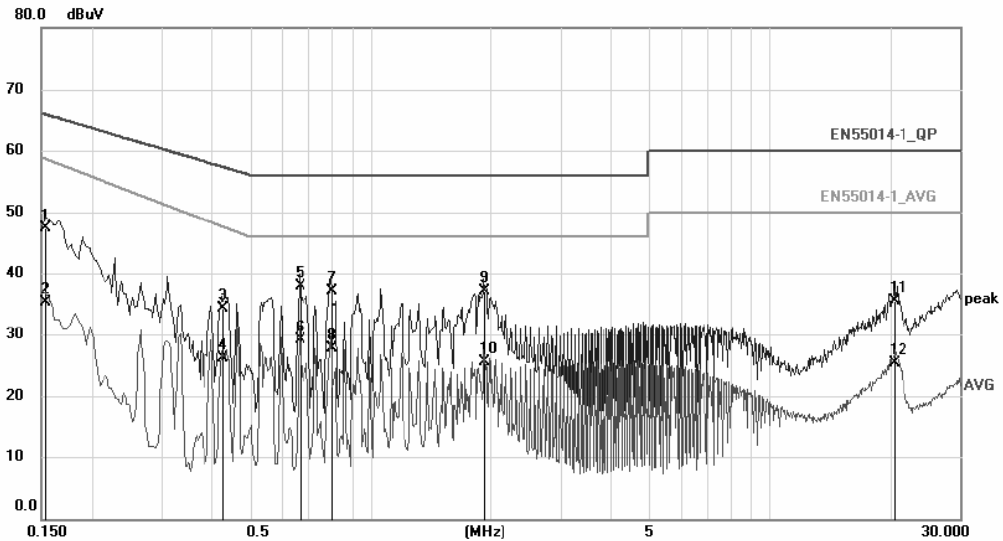
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File : FY08520000 Data : #3 Date : 2018-4-24 Time : 10:01:30



Site: Phase: **N** Temperature: 24
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTER CHARGER
M/N: FY08520000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	36.50	10.80	47.30	65.79	-18.49	QP	
2		0.1539	24.50	10.80	35.30	58.72	-23.42	AVG	
3		0.4260	23.50	10.80	34.30	57.33	-23.03	QP	
4		0.4260	15.30	10.80	26.10	47.73	-21.63	AVG	
5		0.6660	27.10	10.80	37.90	56.00	-18.10	QP	
6	*	0.6660	18.30	10.80	29.10	46.00	-16.90	AVG	
7		0.7980	26.40	10.80	37.20	56.00	-18.80	QP	
8		0.7980	17.00	10.80	27.80	46.00	-18.20	AVG	
9		1.9260	26.40	10.80	37.20	56.00	-18.80	QP	
10		1.9260	14.80	10.80	25.60	46.00	-20.40	AVG	
11		20.5140	24.70	10.80	35.50	60.00	-24.50	QP	
12		20.5140	14.60	10.80	25.40	50.00	-24.60	AVG	

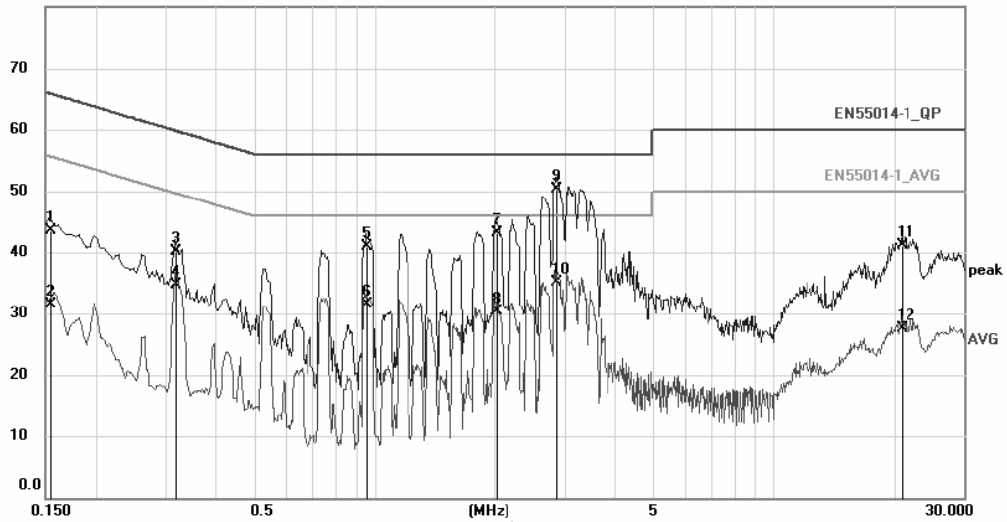
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Conducted Emission Measurement

File :FY15020000 Data :#1 Date: 2018-5-7 Time: 13:46:06
80.0 dBuV



Site Phase: L1 Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY15020000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1548	43.50	0.00	43.50	65.74	-22.24	QP	
2		0.1548	31.60	0.00	31.60	55.74	-24.14	AVG	
3		0.3180	40.10	0.00	40.10	59.76	-19.66	QP	
4		0.3180	34.70	0.00	34.70	49.76	-15.06	AVG	
5		0.9540	41.00	0.00	41.00	56.00	-15.00	QP	
6		0.9540	31.60	0.00	31.60	46.00	-14.40	AVG	
7		2.0220	43.20	0.00	43.20	56.00	-12.80	QP	
8		2.0220	30.30	0.00	30.30	46.00	-15.70	AVG	
9	*	2.8580	50.30	0.00	50.30	56.00	-5.70	QP	
10		2.8580	35.20	0.00	35.20	46.00	-10.80	AVG	
11		20.9700	41.20	0.00	41.20	60.00	-18.80	QP	
12		20.9700	27.60	0.00	27.60	50.00	-22.40	AVG	

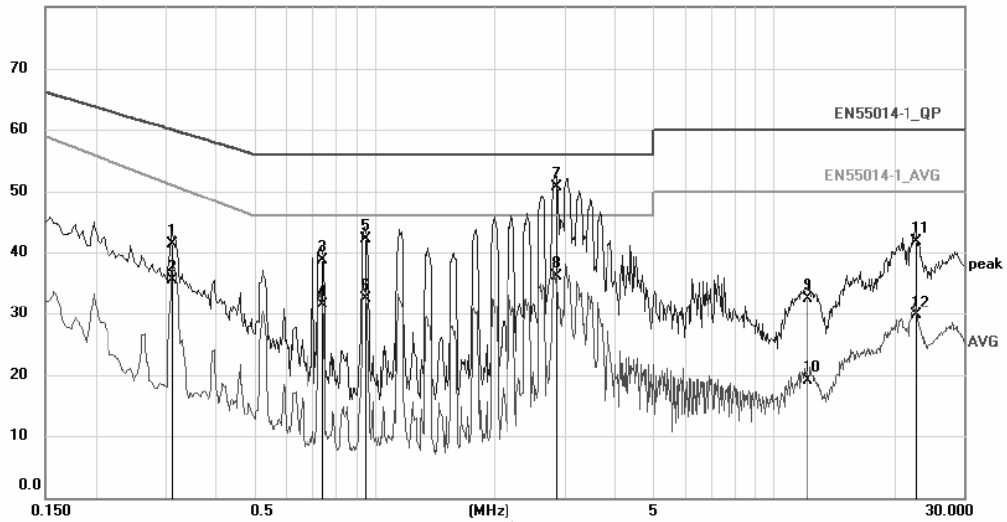
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Conducted Emission Measurement

File :FY15020000 Data :#2 Date: 2018-5-7 Time: 13:54:00
80.0 dBuV



Site: Phase: **N** Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY15020000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3100	41.40	0.00	41.40	59.97	-18.57	QP	
2		0.3100	35.60	0.00	35.60	51.16	-15.56	AVG	
3		0.7420	38.80	0.00	38.80	56.00	-17.20	QP	
4		0.7420	31.60	0.00	31.60	46.00	-14.40	AVG	
5		0.9460	42.10	0.00	42.10	56.00	-13.90	QP	
6		0.9460	32.60	0.00	32.60	46.00	-13.40	AVG	
7	*	2.8460	50.80	0.00	50.80	56.00	-5.20	QP	
8		2.8460	36.10	0.00	36.10	46.00	-9.90	AVG	
9		12.1300	32.50	0.00	32.50	60.00	-27.50	QP	
10		12.1300	19.20	0.00	19.20	50.00	-30.80	AVG	
11		22.6820	41.70	0.00	41.70	60.00	-18.30	QP	
12		22.6820	29.70	0.00	29.70	50.00	-20.30	AVG	

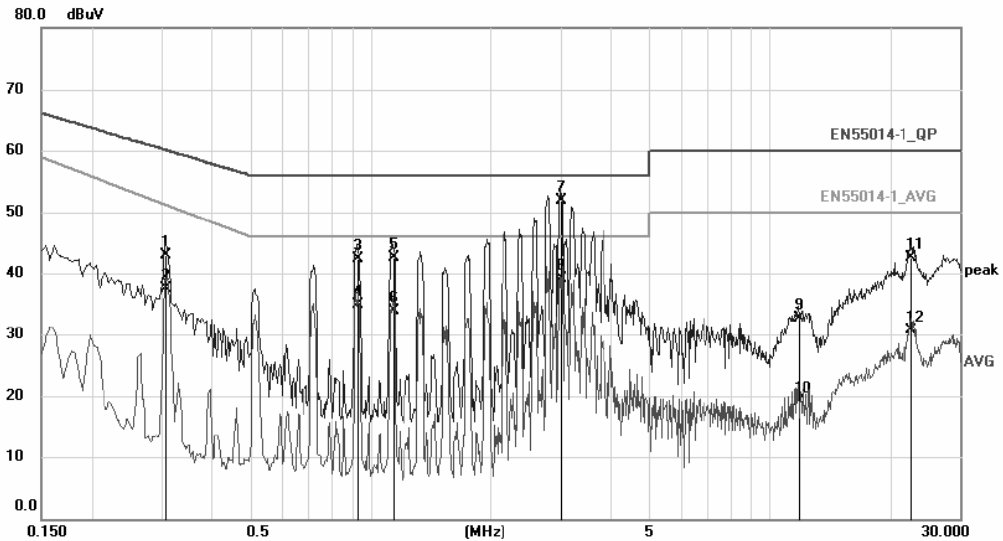
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY15020000 Data :#3 Date: 2018-5-7 Time: 14:01:24



Site Phase: **N** Temperature: 24
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY15020000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3060	42.90	0.00	42.90	60.08	-17.18	QP	
2		0.3060	37.60	0.00	37.60	51.30	-13.70	AVG	
3		0.9260	42.40	0.00	42.40	56.00	-13.60	QP	
4		0.9260	34.90	0.00	34.90	46.00	-11.10	AVG	
5		1.1380	42.60	0.00	42.60	56.00	-13.40	QP	
6		1.1380	33.90	0.00	33.90	46.00	-12.10	AVG	
7	*	3.0020	51.90	0.00	51.90	56.00	-4.10	QP	
8		3.0020	39.20	0.00	39.20	46.00	-6.80	AVG	
9		11.7580	32.80	0.00	32.80	60.00	-27.20	QP	
10		11.7580	19.10	0.00	19.10	50.00	-30.90	AVG	
11		22.6540	42.50	0.00	42.50	60.00	-17.50	QP	
12		22.6540	30.70	0.00	30.70	50.00	-19.30	AVG	

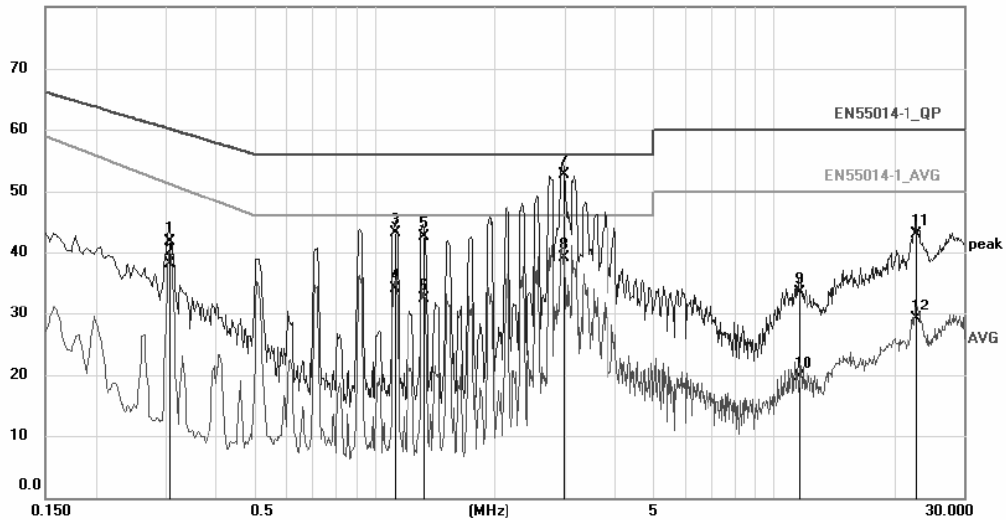
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY15020000 Data :#4 Date: 2018-5-7 Time: 14:10:20
80.0 dBuV



Site Phase: L1 Temperature: 24
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY15020000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3060	41.70	0.00	41.70	60.08	-18.38	QP	
2		0.3060	38.20	0.00	38.20	51.30	-13.10	AVG	
3		1.1260	43.20	0.00	43.20	56.00	-12.80	QP	
4		1.1260	34.10	0.00	34.10	46.00	-11.90	AVG	
5		1.3300	42.60	0.00	42.60	56.00	-13.40	QP	
6		1.3300	32.50	0.00	32.50	46.00	-13.50	AVG	
7	*	2.9700	52.80	0.00	52.80	56.00	-3.20	QP	
8		2.9700	39.10	0.00	39.10	46.00	-6.90	AVG	
9		11.5460	33.60	0.00	33.60	60.00	-26.40	QP	
10		11.5460	19.80	0.00	19.80	50.00	-30.20	AVG	
11		22.8819	42.90	0.00	42.90	60.00	-17.10	QP	
12		22.8819	29.20	0.00	29.20	50.00	-20.80	AVG	

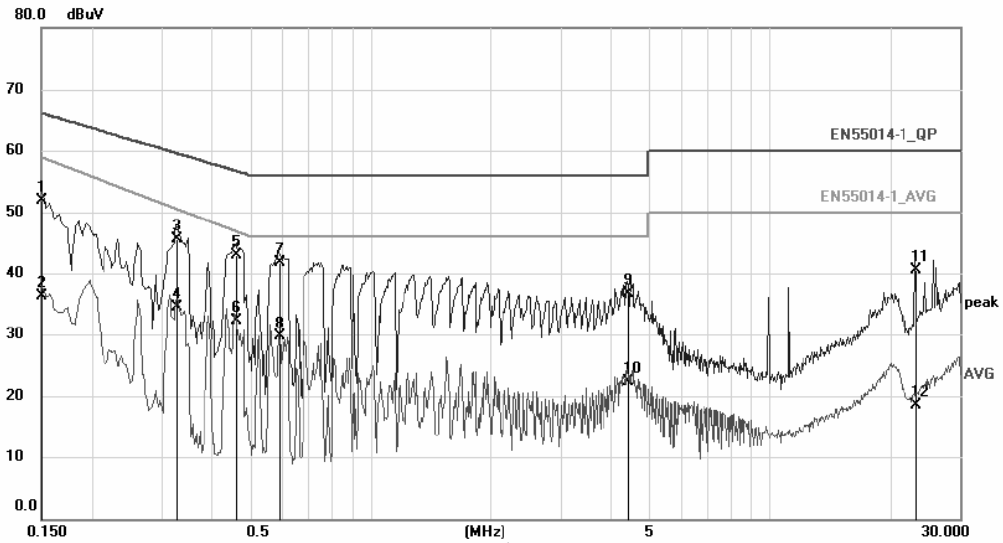
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY22517000 Data :#1 Date: 2018-4-24 Time: 14:00:36



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY22517000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	52.00	0.00	52.00	66.00	-14.00	QP	
2		0.1500	36.30	0.00	36.30	59.00	-22.70	AVG	
3		0.3260	45.60	0.00	45.60	59.55	-13.95	QP	
4		0.3260	34.50	0.00	34.50	50.62	-16.12	AVG	
5	*	0.4620	42.90	0.00	42.90	56.66	-13.76	QP	
6		0.4620	32.40	0.00	32.40	46.85	-14.45	AVG	
7		0.5899	41.70	0.00	41.70	56.00	-14.30	QP	
8		0.5899	29.70	0.00	29.70	46.00	-16.30	AVG	
9		4.4180	36.70	0.00	36.70	56.00	-19.30	QP	
10		4.4180	22.30	0.00	22.30	46.00	-23.70	AVG	
11		23.2377	40.50	0.00	40.50	60.00	-19.50	QP	
12		23.2377	18.60	0.00	18.60	50.00	-31.40	AVG	

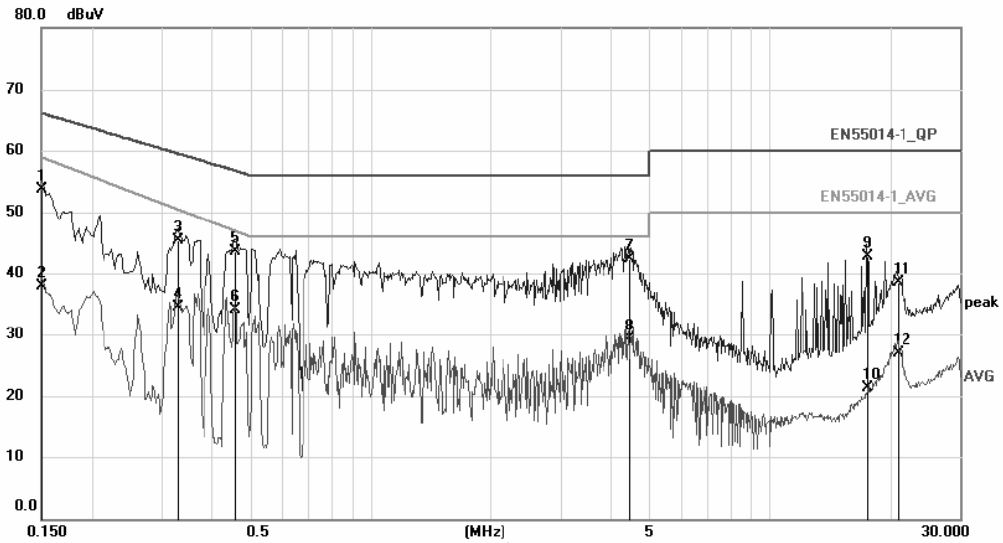
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY22517000 Data :#2 Date: 2018-4-24 Time: 14:07:46



Site: Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY22517000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	53.80	0.00	53.80	66.00	-12.20	QP	
2		0.1500	37.90	0.00	37.90	59.00	-21.10	AVG	
3		0.3300	45.40	0.00	45.40	59.45	-14.05	QP	
4		0.3300	34.50	0.00	34.50	50.49	-15.99	AVG	
5		0.4580	43.60	0.00	43.60	56.73	-13.13	QP	
6		0.4580	34.10	0.00	34.10	46.95	-12.85	AVG	
7		4.4340	42.30	0.00	42.30	56.00	-13.70	QP	
8		4.4340	29.30	0.00	29.30	46.00	-16.70	AVG	
9		17.5340	42.80	0.00	42.80	60.00	-17.20	QP	
10		17.5340	21.40	0.00	21.40	50.00	-28.60	AVG	
11		20.8740	38.50	0.00	38.50	60.00	-21.50	QP	
12		20.8740	26.90	0.00	26.90	50.00	-23.10	AVG	

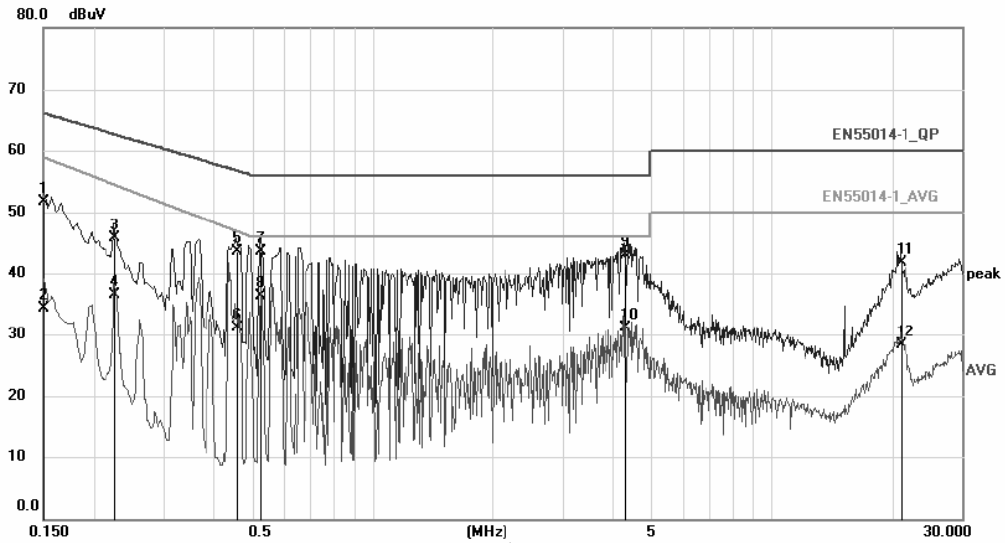
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File : FY22517000 Data : #3 Date : 2018-4-24 Time : 14:14:52



Site: Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY22517000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	51.70	0.00	51.70	66.00	-14.30	QP	
2		0.1500	34.30	0.00	34.30	59.00	-24.70	AVG	
3		0.2260	45.80	0.00	45.80	62.60	-16.80	QP	
4		0.2260	36.60	0.00	36.60	54.57	-17.97	AVG	
5		0.4580	43.60	0.00	43.60	56.73	-13.13	QP	
6		0.4580	31.20	0.00	31.20	46.95	-15.75	AVG	
7		0.5260	43.60	0.00	43.60	56.00	-12.40	QP	
8	*	0.5260	36.30	0.00	36.30	46.00	-9.70	AVG	
9		4.3100	42.90	0.00	42.90	56.00	-13.10	QP	
10		4.3100	31.10	0.00	31.10	46.00	-14.90	AVG	
11		21.0900	41.70	0.00	41.70	60.00	-18.30	QP	
12		21.0900	28.30	0.00	28.30	50.00	-21.70	AVG	

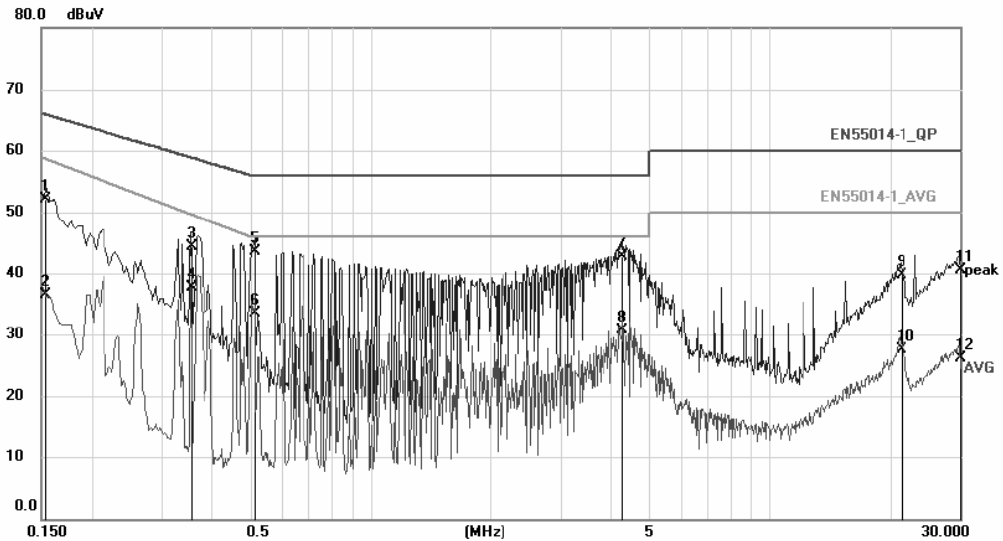
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY22517000 Data :#4 Date: 2018-4-24 Time: 14:21:30



Site: Phase: **L1** Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY22517000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	52.20	0.00	52.20	65.79	-13.59	QP	
2		0.1539	36.60	0.00	36.60	58.72	-22.12	AVG	
3		0.3540	44.40	0.00	44.40	58.87	-14.47	QP	
4	*	0.3540	37.80	0.00	37.80	49.73	-11.93	AVG	
5		0.5140	43.60	0.00	43.60	56.00	-12.40	QP	
6		0.5140	33.50	0.00	33.50	46.00	-12.50	AVG	
7		4.2619	42.80	0.00	42.80	56.00	-13.20	QP	
8		4.2619	30.70	0.00	30.70	46.00	-15.30	AVG	
9		21.2660	39.70	0.00	39.70	60.00	-20.30	QP	
10		21.2660	27.50	0.00	27.50	50.00	-22.50	AVG	
11		29.9900	40.60	0.00	40.60	60.00	-19.40	QP	
12		29.9900	26.10	0.00	26.10	50.00	-23.90	AVG	

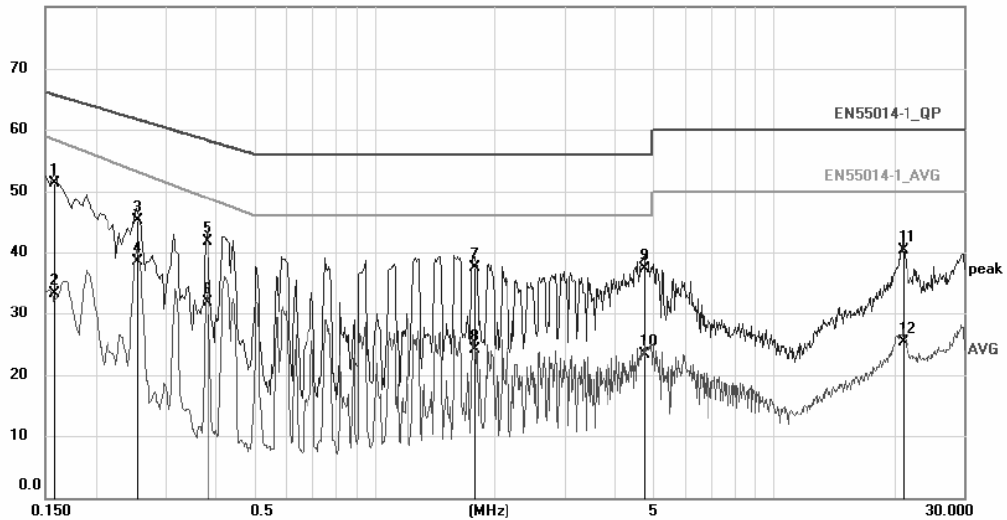
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Conducted Emission Measurement

File :FY32012000 Data :#1 Date: 2018-4-24 Time: 17:12:28
80.0 dBuV



Site: Phase: **L1** Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY32012000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1580	40.50	10.80	51.30	65.57	-14.27	QP	
2		0.1580	22.60	10.80	33.40	58.44	-25.04	AVG	
3		0.2540	34.30	10.80	45.10	61.63	-16.53	QP	
4		0.2540	27.70	10.80	38.50	53.31	-14.81	AVG	
5		0.3820	31.00	10.80	41.80	58.24	-16.44	QP	
6		0.3820	21.10	10.80	31.90	48.91	-17.01	AVG	
7		1.7740	26.80	10.80	37.60	56.00	-18.40	QP	
8		1.7740	13.30	10.80	24.10	46.00	-21.90	AVG	
9		4.7500	26.60	10.80	37.40	56.00	-18.60	QP	
10		4.7500	12.60	10.80	23.40	46.00	-22.60	AVG	
11		21.0540	29.50	10.80	40.30	60.00	-19.70	QP	
12		21.0540	14.60	10.80	25.40	50.00	-24.60	AVG	

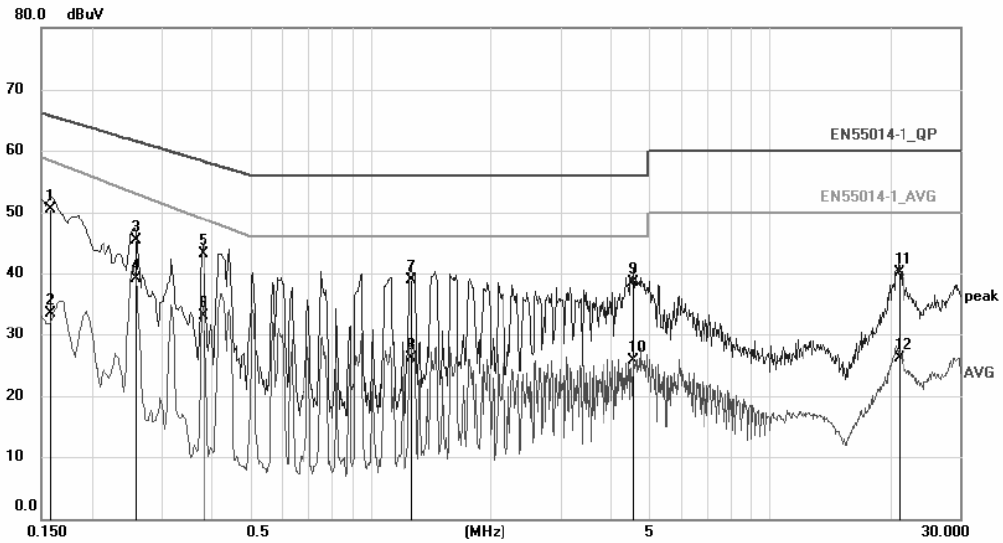
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY32012000 Data :#2 Date: 2018-4-24 Time: 17:19:19



Site: Phase: **N** Temperature: 24
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY32012000
Mode: Full Load
Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1580	39.80	10.80	50.60	65.57	-14.97	QP	
2	0.1580	22.80	10.80	33.60	58.44	-24.84	AVG	
3	0.2580	34.50	10.80	45.30	61.50	-16.20	QP	
4 *	0.2580	28.30	10.80	39.10	53.14	-14.04	AVG	
5	0.3820	32.30	10.80	43.10	58.24	-15.14	QP	
6	0.3820	22.40	10.80	33.20	48.91	-15.71	AVG	
7	1.2660	28.10	10.80	38.90	56.00	-17.10	QP	
8	1.2660	15.30	10.80	26.10	46.00	-19.90	AVG	
9	4.5660	27.80	10.80	38.60	56.00	-17.40	QP	
10	4.5660	15.00	10.80	25.80	46.00	-20.20	AVG	
11	21.1060	29.30	10.80	40.10	60.00	-19.90	QP	
12	21.1060	15.30	10.80	26.10	50.00	-23.90	AVG	

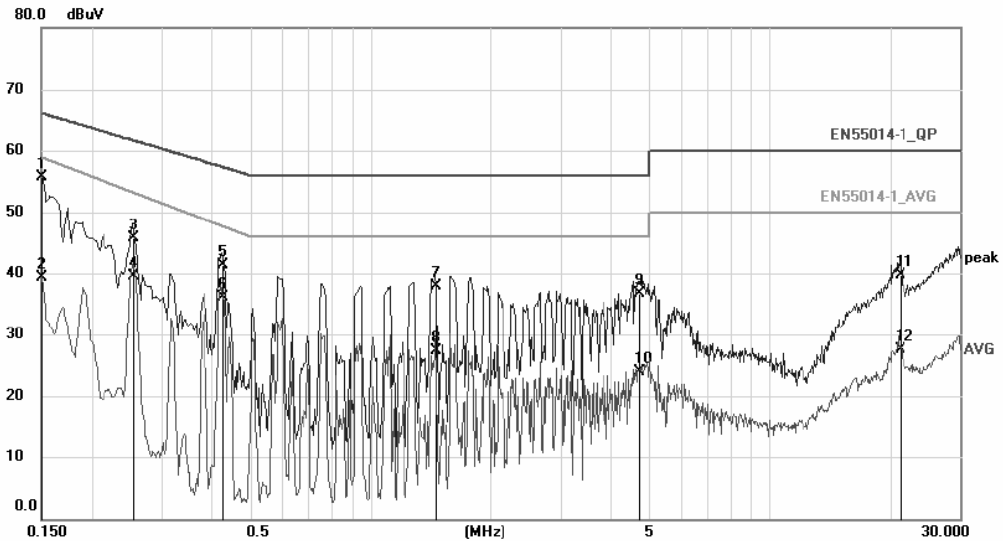
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Conducted Emission Measurement

File :FY32012000 Data :#4 Date: 2018-4-24 Time: 17:34:09



Site Phase: L1 Temperature: 24
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY32012000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	45.00	10.80	55.80	66.00	-10.20	QP	
2		0.1500	28.50	10.80	39.30	59.00	-19.70	AVG	
3		0.2540	35.00	10.80	45.80	61.63	-15.83	QP	
4		0.2540	28.70	10.80	39.50	53.31	-13.81	AVG	
5		0.4260	30.50	10.80	41.30	57.33	-16.03	QP	
6		0.4260	25.30	10.80	36.10	47.73	-11.63	AVG	
7		1.4580	27.10	10.80	37.90	56.00	-18.10	QP	
8		1.4580	16.50	10.80	27.30	46.00	-18.70	AVG	
9		4.7060	26.00	10.80	36.80	56.00	-19.20	QP	
10		4.7060	13.20	10.80	24.00	46.00	-22.00	AVG	
11		21.1900	29.00	10.80	39.80	60.00	-20.20	QP	
12		21.1900	16.80	10.80	27.60	50.00	-22.40	AVG	

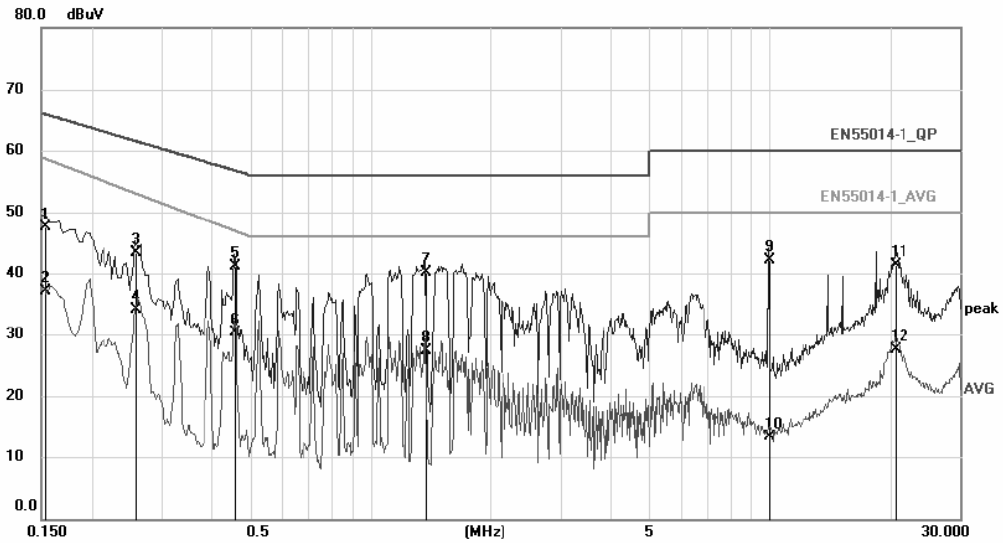
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Conducted Emission Measurement

File :FY54607000 Data :#1 Date: 2018-4-24 Time: 14:26:36



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY54607000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	47.60	0.00	47.60	65.79	-18.19	QP	
2		0.1539	37.10	0.00	37.10	58.72	-21.62	AVG	
3		0.2580	43.30	0.00	43.30	61.50	-18.20	QP	
4		0.2580	34.10	0.00	34.10	53.14	-19.04	AVG	
5	*	0.4580	41.10	0.00	41.10	56.73	-15.63	QP	
6		0.4580	30.40	0.00	30.40	46.95	-16.55	AVG	
7		1.3740	40.10	0.00	40.10	56.00	-15.90	QP	
8		1.3740	27.30	0.00	27.30	46.00	-18.70	AVG	
9		9.9620	42.20	0.00	42.20	60.00	-17.80	QP	
10		9.9620	13.30	0.00	13.30	50.00	-36.70	AVG	
11		20.6540	41.40	0.00	41.40	60.00	-18.60	QP	
12		20.6540	27.60	0.00	27.60	50.00	-22.40	AVG	

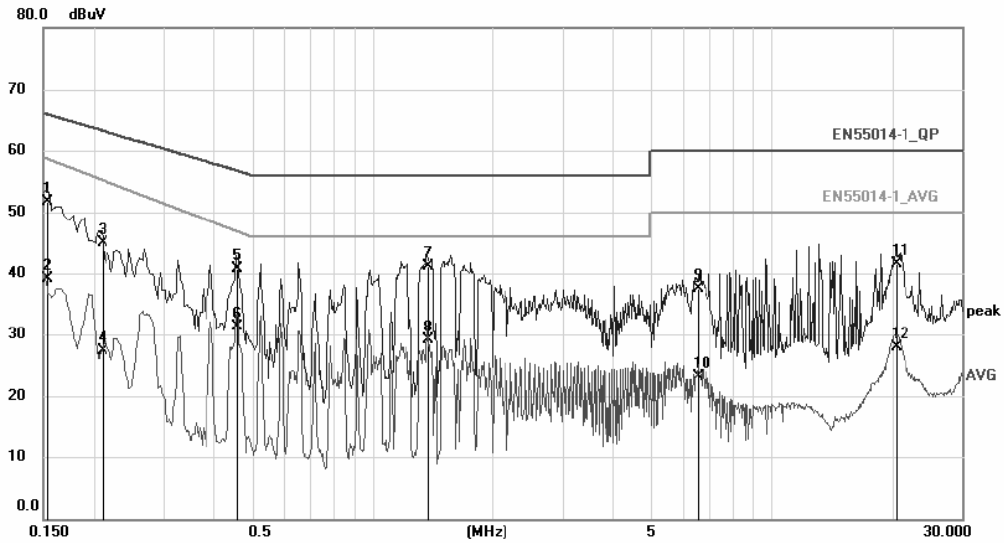
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY54607000 Data :#2 Date: 2018-4-24 Time: 14:33:18



Site: Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY54607000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1539	51.80	0.00	51.80	65.79	-13.99	QP	
2		0.1539	39.20	0.00	39.20	58.72	-19.52	AVG	
3		0.2100	44.90	0.00	44.90	63.21	-18.31	QP	
4		0.2100	27.30	0.00	27.30	55.37	-28.07	AVG	
5		0.4580	40.80	0.00	40.80	56.73	-15.93	QP	
6		0.4580	31.40	0.00	31.40	46.95	-15.55	AVG	
7		1.3779	41.20	0.00	41.20	56.00	-14.80	QP	
8		1.3779	29.10	0.00	29.10	46.00	-16.90	AVG	
9		6.5540	37.60	0.00	37.60	60.00	-22.40	QP	
10		6.5540	23.10	0.00	23.10	50.00	-26.90	AVG	
11		20.4540	41.60	0.00	41.60	60.00	-18.40	QP	
12		20.4540	27.90	0.00	27.90	50.00	-22.10	AVG	

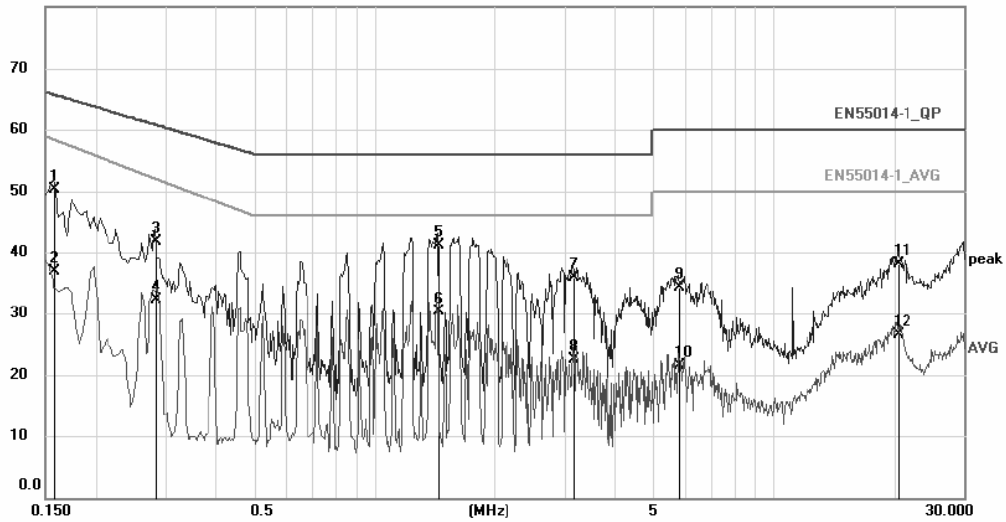
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY54607000 Data :#4 Date: 2018-4-24 Time: 14:47:22
80.0 dBuV



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY54607000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	50.30	0.00	50.30	65.57	-15.27	QP	
2		0.1580	37.00	0.00	37.00	58.44	-21.44	AVG	
3		0.2819	41.70	0.00	41.70	60.76	-19.06	QP	
4		0.2819	32.40	0.00	32.40	52.19	-19.79	AVG	
5	*	1.4420	41.20	0.00	41.20	56.00	-14.80	QP	
6		1.4420	30.30	0.00	30.30	46.00	-15.70	AVG	
7		3.1460	35.90	0.00	35.90	56.00	-20.10	QP	
8		3.1460	22.50	0.00	22.50	46.00	-23.50	AVG	
9		5.7780	34.30	0.00	34.30	60.00	-25.70	QP	
10		5.7780	21.50	0.00	21.50	50.00	-28.50	AVG	
11		20.3900	38.10	0.00	38.10	60.00	-21.90	QP	
12		20.3900	26.50	0.00	26.50	50.00	-23.50	AVG	

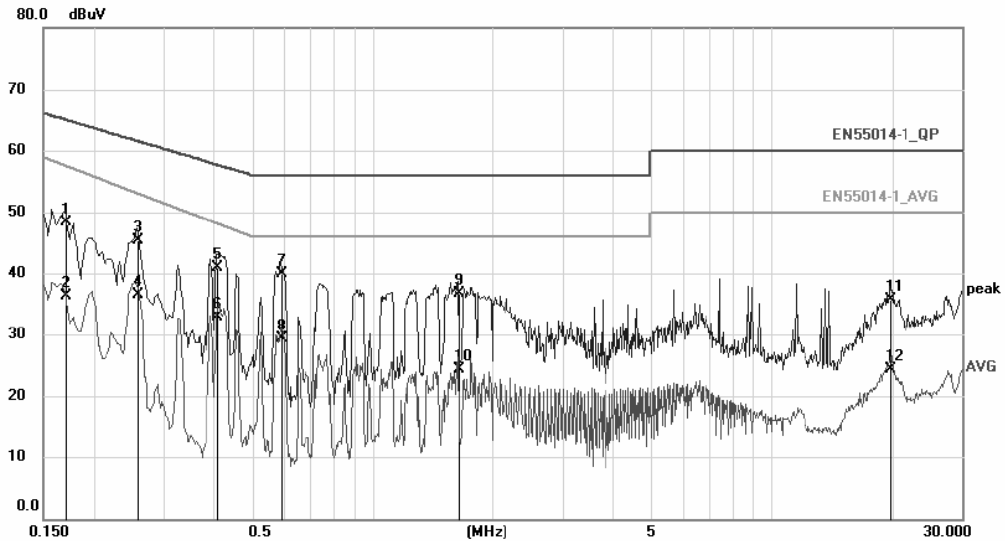
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY64806000 Data :#1 Date: 2018-4-24 Time: 14:38:36



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY64806000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	48.30	0.00	48.30	64.96	-16.66	QP	
2		0.1700	36.40	0.00	36.40	57.65	-21.25	AVG	
3		0.2580	45.40	0.00	45.40	61.50	-16.10	QP	
4		0.2580	36.50	0.00	36.50	53.14	-16.64	AVG	
5		0.4100	41.00	0.00	41.00	57.65	-16.65	QP	
6	*	0.4100	33.00	0.00	33.00	48.14	-15.14	AVG	
7		0.5899	40.00	0.00	40.00	56.00	-16.00	QP	
8		0.5899	29.30	0.00	29.30	46.00	-16.70	AVG	
9		1.6380	36.70	0.00	36.70	56.00	-19.30	QP	
10		1.6380	24.30	0.00	24.30	46.00	-21.70	AVG	
11		19.7820	35.80	0.00	35.80	60.00	-24.20	QP	
12		19.7820	24.40	0.00	24.40	50.00	-25.60	AVG	

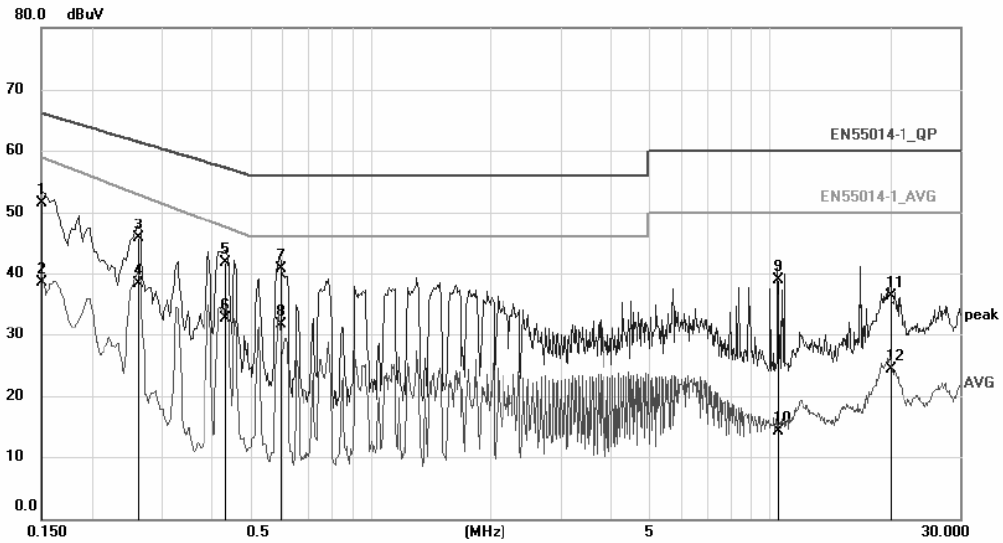
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY64806000 Data :#2 Date: 2018-4-24 Time: 14:45:09



Site Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY64806000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	51.60	0.00	51.60	66.00	-14.40	QP	
2		0.1500	38.60	0.00	38.60	59.00	-20.40	AVG	
3		0.2620	45.70	0.00	45.70	61.37	-15.67	QP	
4		0.2620	38.40	0.00	38.40	52.98	-14.58	AVG	
5		0.4340	41.80	0.00	41.80	57.18	-15.38	QP	
6		0.4340	32.70	0.00	32.70	47.53	-14.83	AVG	
7		0.5940	40.70	0.00	40.70	56.00	-15.30	QP	
8	*	0.5940	31.80	0.00	31.80	46.00	-14.20	AVG	
9		10.4780	38.90	0.00	38.90	60.00	-21.10	QP	
10		10.4780	14.40	0.00	14.40	50.00	-35.60	AVG	
11		19.9660	36.30	0.00	36.30	60.00	-23.70	QP	
12		19.9660	24.30	0.00	24.30	50.00	-25.70	AVG	

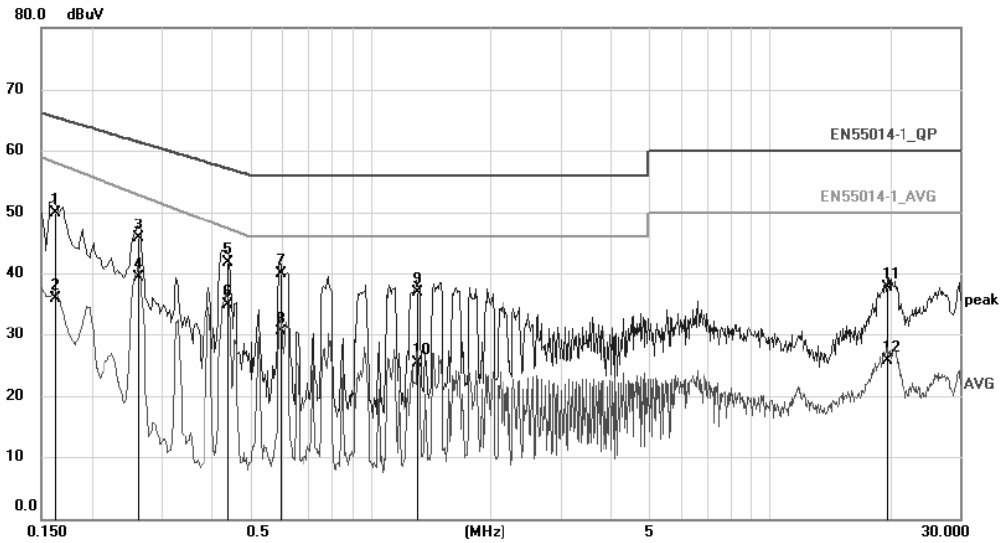
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY64806000 Data :#3 Date: 2018-4-24 Time: 14:52:16



Site Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY64806000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	49.90	0.00	49.90	65.36	-15.46	QP	
2		0.1620	35.90	0.00	35.90	58.17	-22.27	AVG	
3		0.2620	45.80	0.00	45.80	61.37	-15.57	QP	
4		0.2620	39.30	0.00	39.30	52.98	-13.68	AVG	
5		0.4380	41.70	0.00	41.70	57.10	-15.40	QP	
6	*	0.4380	34.90	0.00	34.90	47.43	-12.53	AVG	
7		0.5940	39.90	0.00	39.90	56.00	-16.10	QP	
8		0.5940	30.60	0.00	30.60	46.00	-15.40	AVG	
9		1.3140	36.90	0.00	36.90	56.00	-19.10	QP	
10		1.3140	25.30	0.00	25.30	46.00	-20.70	AVG	
11		19.6620	37.70	0.00	37.70	60.00	-22.30	QP	
12		19.6620	25.80	0.00	25.80	50.00	-24.20	AVG	

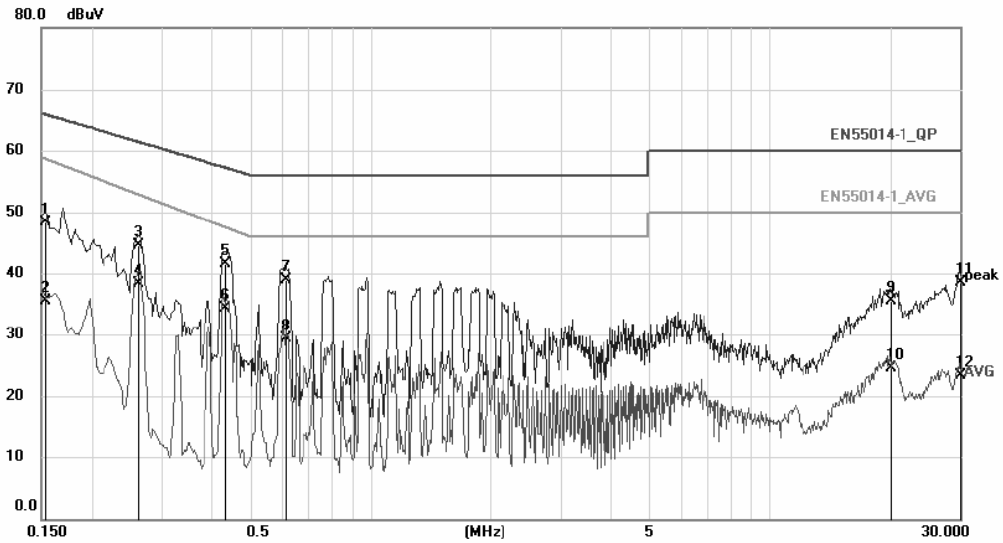
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY64806000 Data :#4 Date: 2018-4-24 Time: 14:59:50



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY64806000
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	48.30	0.00	48.30	65.79	-17.49	QP	
2		0.1539	35.60	0.00	35.60	58.72	-23.12	AVG	
3		0.2620	44.50	0.00	44.50	61.37	-16.87	QP	
4		0.2620	38.30	0.00	38.30	52.98	-14.68	AVG	
5		0.4340	41.60	0.00	41.60	57.18	-15.58	QP	
6	*	0.4340	34.30	0.00	34.30	47.53	-13.23	AVG	
7		0.6140	38.90	0.00	38.90	56.00	-17.10	QP	
8		0.6140	29.30	0.00	29.30	46.00	-16.70	AVG	
9		20.0500	35.60	0.00	35.60	60.00	-24.40	QP	
10		20.0500	24.60	0.00	24.60	50.00	-25.40	AVG	
11		29.9420	38.50	0.00	38.50	60.00	-21.50	QP	
12		29.9420	23.30	0.00	23.30	50.00	-26.70	AVG	

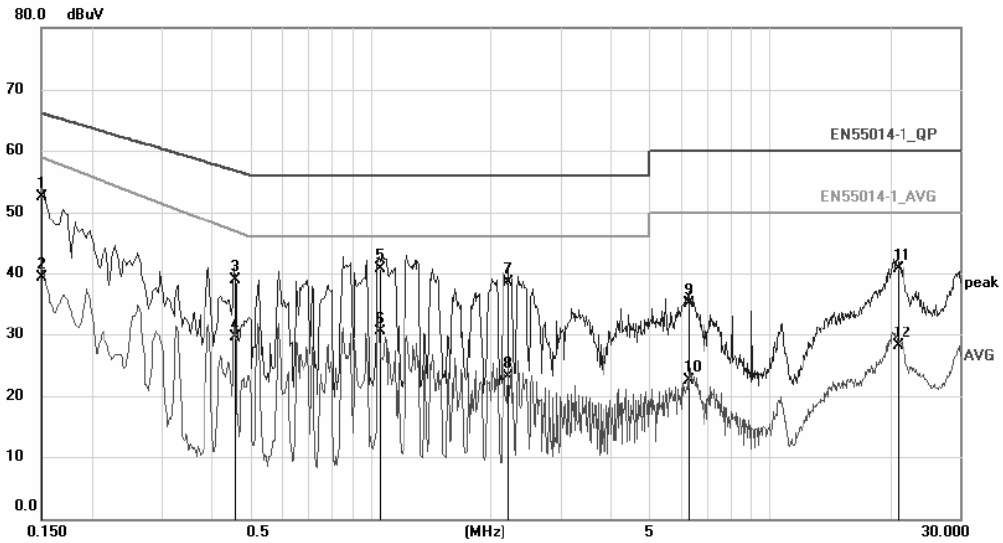
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY87004500 Data :#1 Date: 2018-4-24 Time: 14:33:24



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY87004500
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	52.60	0.00	52.60	66.00	-13.40	QP	
2		0.1500	39.40	0.00	39.40	59.00	-19.60	AVG	
3		0.4580	38.90	0.00	38.90	56.73	-17.83	QP	
4		0.4580	29.60	0.00	29.60	46.95	-17.35	AVG	
5		1.0500	40.70	0.00	40.70	56.00	-15.30	QP	
6		1.0500	30.60	0.00	30.60	46.00	-15.40	AVG	
7		2.2220	38.50	0.00	38.50	56.00	-17.50	QP	
8		2.2220	23.20	0.00	23.20	46.00	-22.80	AVG	
9		6.2740	35.20	0.00	35.20	60.00	-24.80	QP	
10		6.2740	22.50	0.00	22.50	50.00	-27.50	AVG	
11		20.8420	40.80	0.00	40.80	60.00	-19.20	QP	
12		20.8420	28.20	0.00	28.20	50.00	-21.80	AVG	

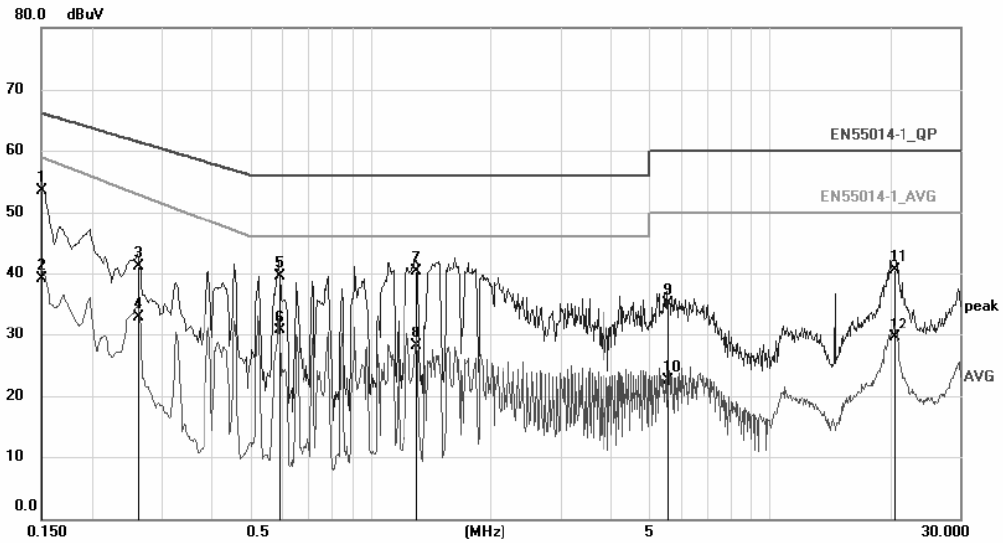
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Conducted Emission Measurement

File :FY87004500 Data :#2 Date: 2018-4-24 Time: 14:40:06



Site: Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC230V/50Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY87004500
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	53.60	0.00	53.60	66.00	-12.40	QP	
2		0.1500	39.10	0.00	39.10	59.00	-19.90	AVG	
3		0.2620	41.20	0.00	41.20	61.37	-20.17	QP	
4		0.2620	32.90	0.00	32.90	52.98	-20.08	AVG	
5		0.5899	39.60	0.00	39.60	56.00	-16.40	QP	
6		0.5899	30.70	0.00	30.70	46.00	-15.30	AVG	
7		1.3020	40.30	0.00	40.30	56.00	-15.70	QP	
8		1.3020	28.10	0.00	28.10	46.00	-17.90	AVG	
9		5.5540	35.10	0.00	35.10	60.00	-24.90	QP	
10		5.5540	22.50	0.00	22.50	50.00	-27.50	AVG	
11		20.5780	40.50	0.00	40.50	60.00	-19.50	QP	
12		20.5780	29.50	0.00	29.50	50.00	-20.50	AVG	

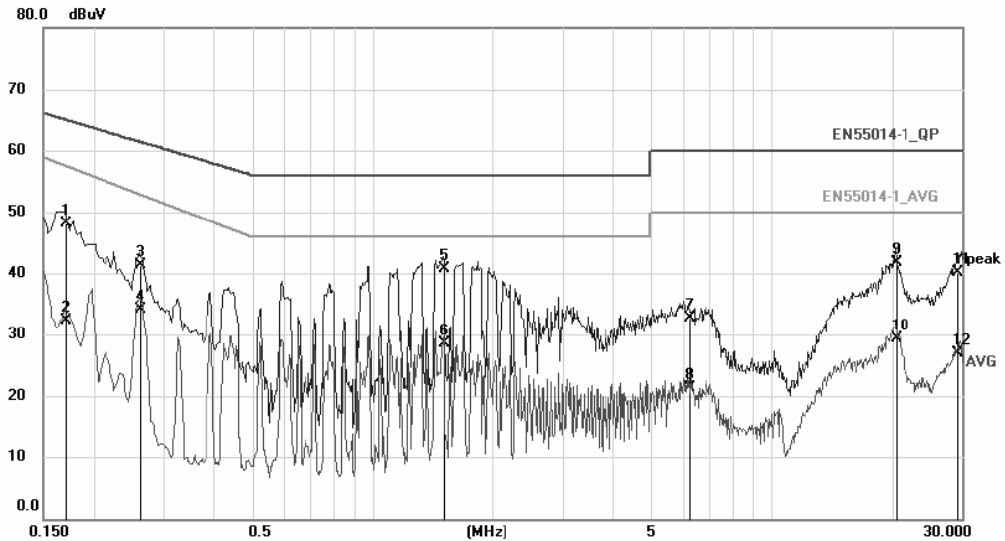
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Conducted Emission Measurement

File :FY87004500 Data :#3 Date: 2018-4-24 Time: 14:48:26



Site Phase: L1 Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY87004500
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	48.20	0.00	48.20	64.96	-16.76	QP	
2		0.1700	32.30	0.00	32.30	57.65	-25.35	AVG	
3		0.2620	41.30	0.00	41.30	61.37	-20.07	QP	
4		0.2620	34.10	0.00	34.10	52.98	-18.88	AVG	
5	*	1.5060	40.70	0.00	40.70	56.00	-15.30	QP	
6		1.5060	28.60	0.00	28.60	46.00	-17.40	AVG	
7		6.2058	32.70	0.00	32.70	60.00	-27.30	QP	
8		6.2058	21.30	0.00	21.30	50.00	-28.70	AVG	
9		20.3900	41.80	0.00	41.80	60.00	-18.20	QP	
10		20.3900	29.40	0.00	29.40	50.00	-20.60	AVG	
11		29.2100	40.10	0.00	40.10	60.00	-19.90	QP	
12		29.2100	26.90	0.00	26.90	50.00	-23.10	AVG	

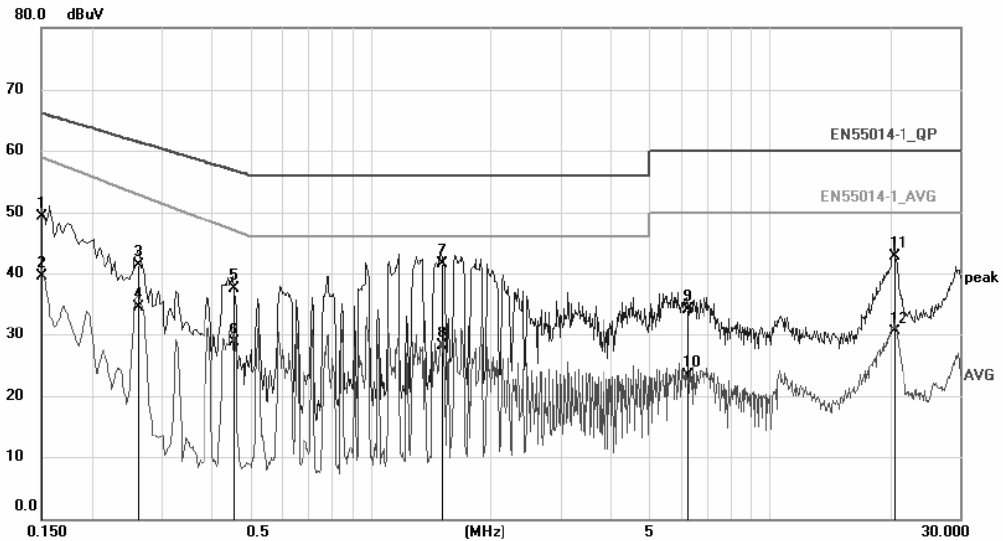
*:Maximum data x:Over limit !:over margin (Reference Only)



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Conducted Emission Measurement

File :FY87004500 Data :#4 Date: 2018-4-24 Time: 14:56:56



Site Phase: **N** Temperature: 26
Limit: EN55014-1_QP Power: AC110V/60Hz Humidity: 50 %
EUT: BATTERY CHARGER
M/N: FY87004500
Mode: Full Load
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	49.30	0.00	49.30	66.00	-16.70	QP	
2		0.1500	39.50	0.00	39.50	59.00	-19.50	AVG	
3		0.2620	41.40	0.00	41.40	61.37	-19.97	QP	
4		0.2620	34.60	0.00	34.60	52.98	-18.38	AVG	
5		0.4540	37.50	0.00	37.50	56.80	-19.30	QP	
6		0.4540	28.70	0.00	28.70	47.04	-18.34	AVG	
7	*	1.5060	41.50	0.00	41.50	56.00	-14.50	QP	
8		1.5060	28.10	0.00	28.10	46.00	-17.90	AVG	
9		6.2100	34.10	0.00	34.10	60.00	-25.90	QP	
10		6.2100	23.30	0.00	23.30	50.00	-26.70	AVG	
11		20.5138	42.80	0.00	42.80	60.00	-17.20	QP	
12		20.5138	30.50	0.00	30.50	50.00	-19.50	AVG	

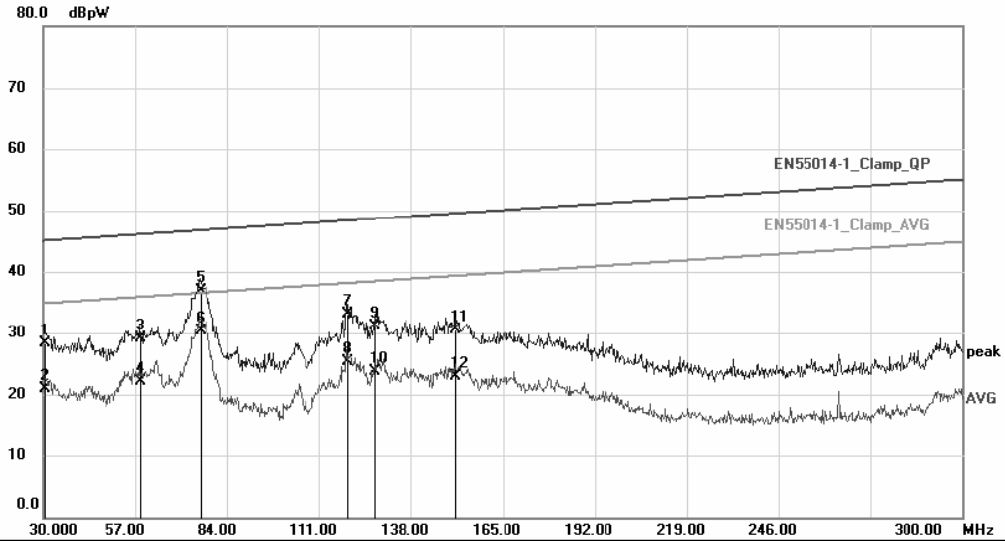
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Disturbance Power Measurement

File :FY08520000 Data :#25 Date: 2018-4-26 Time: 17:02:02



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTER CHARGER Power: AC230V/50Hz
M/N: FY08520000 Humidity: 50 %
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		30.3600	27.50	0.80	28.30	45.01	-16.71	QP		
2		30.3600	20.20	0.80	21.00	35.01	-14.01	AVG		
3		58.6000	28.30	0.80	29.10	46.06	-16.96	QP		
4		58.6000	21.40	0.80	22.20	36.06	-13.86	AVG		
5		76.1600	36.10	0.80	36.90	46.71	-9.81	QP		
6	*	76.1600	29.60	0.80	30.40	36.71	-6.31	AVG		
7		119.2000	32.30	0.80	33.10	48.30	-15.20	QP		
8		119.2000	24.60	0.80	25.40	38.30	-12.90	AVG		
9		127.2800	30.40	0.80	31.20	48.60	-17.40	QP		
10		127.2800	22.90	0.80	23.70	38.60	-14.90	AVG		
11		151.1200	29.80	0.80	30.60	49.49	-18.89	QP		
12		151.1200	22.10	0.80	22.90	39.49	-16.59	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

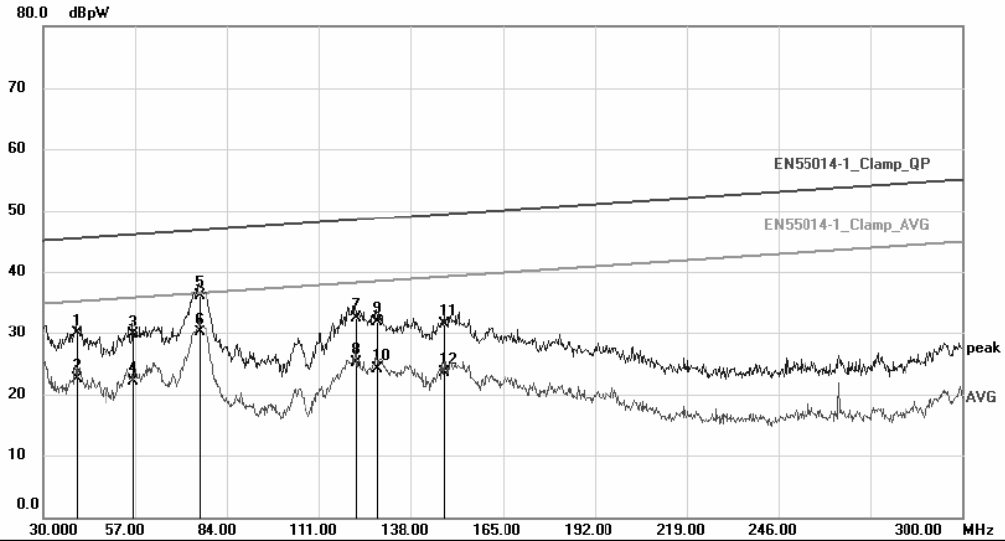
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY08520000 Data :#26 Date: 2018-4-26 Time: 17:09:02



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTER CHARGER Power: AC110V/60Hz
M/N: FY08520000 Humidity: 50 %
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		39.7200	29.10	0.80	29.90	45.36	-15.46	QP		
2		39.7200	21.80	0.80	22.60	35.36	-12.76	AVG		
3		56.3600	28.90	0.80	29.70	45.98	-16.28	QP		
4		56.3600	21.30	0.80	22.10	35.98	-13.88	AVG		
5		75.6800	35.40	0.80	36.20	46.69	-10.49	QP		
6	*	75.6800	29.40	0.80	30.20	36.69	-6.49	AVG		
7		121.6400	31.80	0.80	32.60	48.39	-15.79	QP		
8		121.6400	24.30	0.80	25.10	38.39	-13.29	AVG		
9		127.9600	31.10	0.80	31.90	48.63	-16.73	QP		
10		127.9600	23.30	0.80	24.10	38.63	-14.53	AVG		
11		147.7600	30.80	0.80	31.60	49.36	-17.76	QP		
12		147.7600	22.80	0.80	23.60	39.36	-15.76	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY08520000 Data :#27 Date: 2018-4-26 Time: 17:15:33



Site
Limit: EN55014-1_Clamp_QP
EUT: BATTER CHARGER Power: AC110V/60Hz
M/N: FY08520000 Temperature: 24
Mode: Full Load Humidity: 50 %
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.8000	31.80	0.80	32.60	45.14	-12.54	QP		
2	*	33.8000	25.90	0.80	26.70	35.14	-8.44	AVG		
3		75.9200	33.60	0.80	34.40	46.70	-12.30	QP		
4		75.9200	26.40	0.80	27.20	36.70	-9.50	AVG		
5		82.6400	31.60	0.80	32.40	46.95	-14.55	QP		
6		82.6400	23.60	0.80	24.40	36.95	-12.55	AVG		
7		119.1200	33.10	0.80	33.90	48.30	-14.40	QP		
8		119.1200	25.00	0.80	25.80	38.30	-12.50	AVG		
9		129.3600	34.20	0.80	35.00	48.68	-13.68	QP		
10		129.3600	25.80	0.80	26.60	38.68	-12.08	AVG		
11		264.0000	25.70	0.80	26.50	53.67	-27.17	QP		
12		264.0000	22.80	0.80	23.60	43.67	-20.07	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

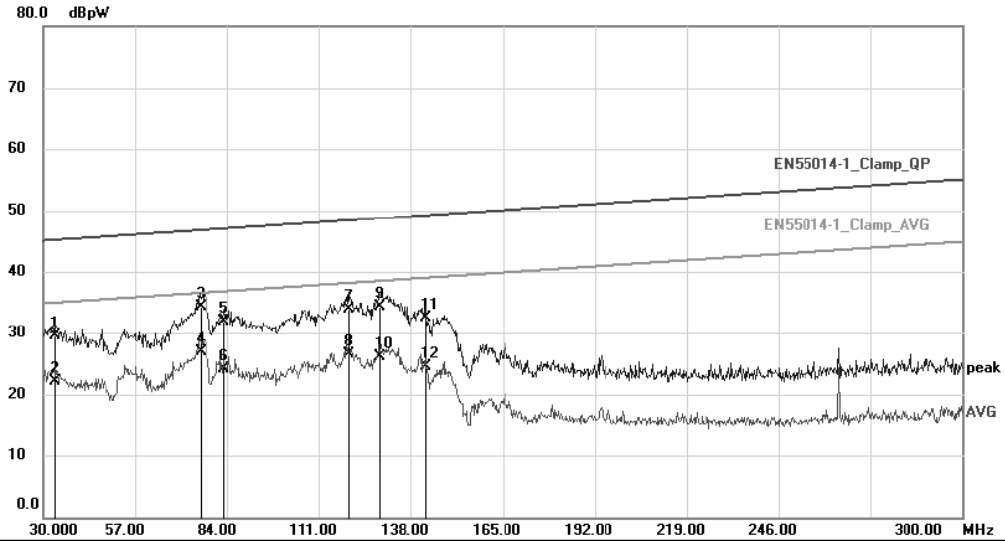
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY08520000 Data :#28 Date: 2018-4-26 Time: 17:22:31



Site _____ Temperature: 24
 Limit: EN55014-1_Clamp_QP Humidity: 50 %
 EUT: BATTER CHARGER Power: AC230V/50Hz
 M/N: FY08520000
 Mode: Full Load
 Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.4399	28.80	0.80	29.60	45.13	-15.53	QP		
2		33.4399	21.30	0.80	22.10	35.13	-13.03	AVG		
3		75.9600	33.60	0.80	34.40	46.70	-12.30	QP		
4	*	75.9600	26.20	0.80	27.00	36.70	-9.70	AVG		
5		83.1200	31.10	0.80	31.90	46.97	-15.07	QP		
6		83.1200	23.30	0.80	24.10	36.97	-12.87	AVG		
7		119.6800	33.20	0.80	34.00	48.32	-14.32	QP		
8		119.6800	25.70	0.80	26.50	38.32	-11.82	AVG		
9		128.6400	33.60	0.80	34.40	48.65	-14.25	QP		
10		128.6400	25.40	0.80	26.20	38.65	-12.45	AVG		
11		142.3199	31.80	0.80	32.60	49.16	-16.56	QP		
12		142.3199	23.70	0.80	24.50	39.16	-14.66	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

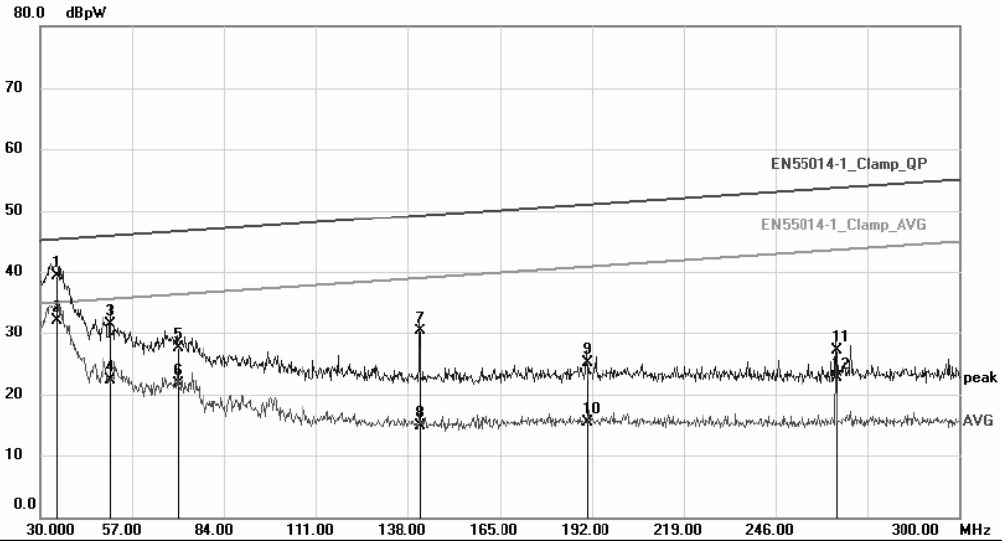
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY15020000 Data :#5 Date: 2018-4-26 Time: 11:08:13



Site
Limit: EN55014-1_Clamp_QP
EUT: BATTER CHARGER Power: AC110V/60Hz
M/N: FY15020000
Mode: Full Load
Note: AC Mains
Temperature: 24
Humidity: 50 %

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		34.8400	38.60	0.80	39.40	45.18	-5.78	QP		
2	*	34.8400	31.30	0.80	32.10	35.18	-3.08	AVG		
3		50.6000	30.80	0.80	31.60	45.76	-14.16	QP		
4		50.6000	21.50	0.80	22.30	35.76	-13.46	AVG		
5		70.4800	26.70	0.80	27.50	46.50	-19.00	QP		
6		70.4800	20.90	0.80	21.70	36.50	-14.80	AVG		
7		141.5200	29.50	0.80	30.30	49.13	-18.83	QP		
8		141.5200	14.10	0.80	14.90	39.13	-24.23	AVG		
9		190.4000	24.40	0.80	25.20	50.94	-25.74	QP		
10		190.4000	14.70	0.80	15.50	40.94	-25.44	AVG		
11		264.0000	26.30	0.80	27.10	53.67	-26.57	QP		
12		264.0000	21.90	0.80	22.70	43.67	-20.97	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

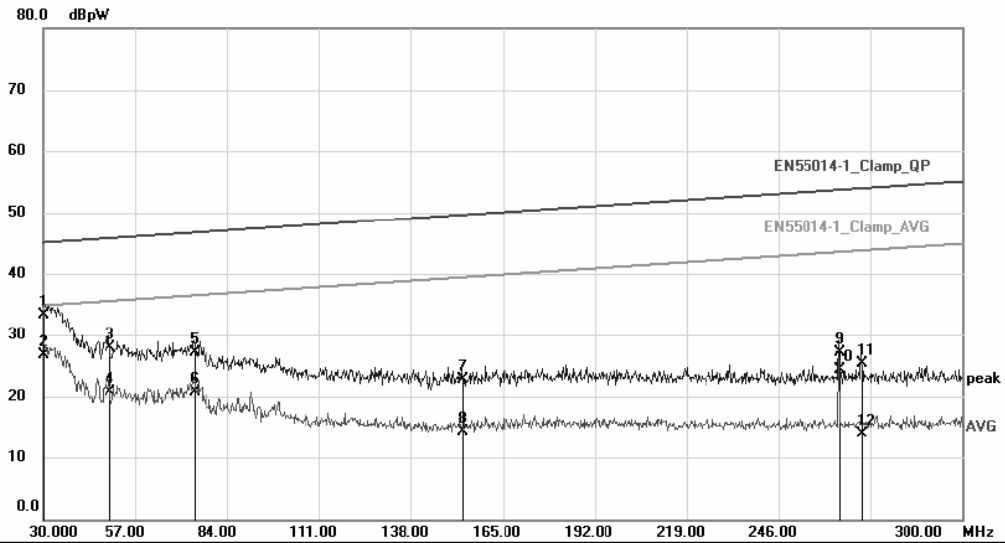
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY15020000 Data :#6 Date: 2018-4-26 Time: 11:15:26



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTER CHARGER Power: AC230V/50Hz Humidity: 50 %
M/N: FY15020000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		30.0000	22.50	10.80	33.30	45.00	-11.70	QP		
2	*	30.0000	16.00	10.80	26.80	35.00	-8.20	AVG		
3		49.2000	27.10	0.80	27.90	45.71	-17.81	QP		
4		49.2000	19.90	0.80	20.70	35.71	-15.01	AVG		
5		74.0800	26.40	0.80	27.20	46.63	-19.43	QP		
6		74.0800	20.00	0.80	20.80	36.63	-15.83	AVG		
7		153.0399	21.90	0.80	22.70	49.56	-26.86	QP		
8		153.0399	13.50	0.80	14.30	39.56	-25.26	AVG		
9		264.0000	26.30	0.80	27.10	53.67	-26.57	QP		
10		264.0000	23.50	0.80	24.30	43.67	-19.37	AVG		
11		270.4000	24.60	0.80	25.40	53.90	-28.50	QP		
12		270.4000	13.10	0.80	13.90	43.90	-30.00	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

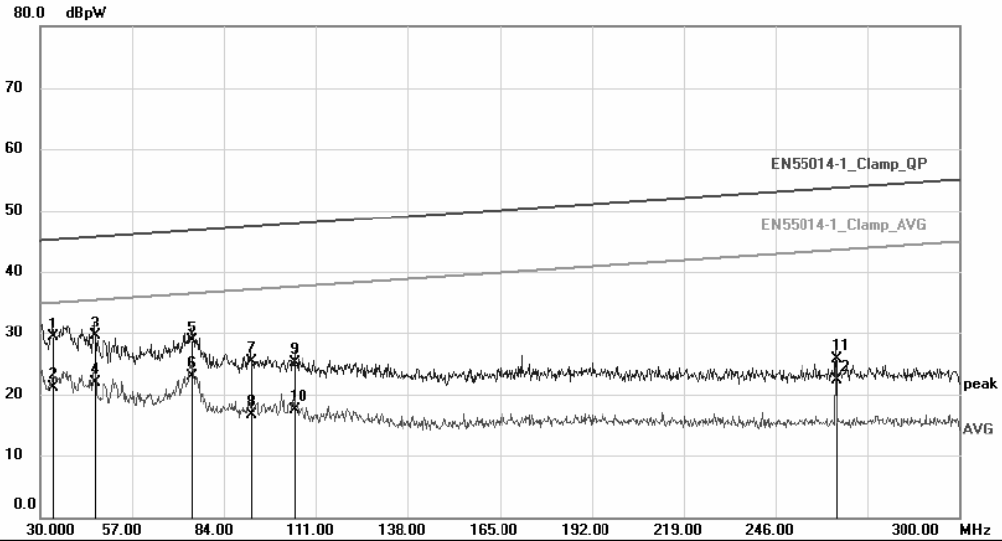
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY15020000 Data :#7 Date: 2018-4-26 Time: 11:22:26



Site: Temperature: 24
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTER CHARGER Power: AC230V/50Hz
M/N: FY15020000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.6400	28.60	0.80	29.40	45.13	-15.73	QP		
2		33.6400	20.40	0.80	21.20	35.13	-13.93	AVG		
3		45.6800	28.80	0.80	29.60	45.58	-15.98	QP		
4	*	45.6800	21.20	0.80	22.00	35.58	-13.58	AVG		
5		74.1200	27.90	0.80	28.70	46.63	-17.93	QP		
6		74.1200	22.10	0.80	22.90	36.63	-13.73	AVG		
7		92.0800	24.50	0.80	25.30	47.30	-22.00	QP		
8		92.0800	15.90	0.80	16.70	37.30	-20.60	AVG		
9		104.6800	24.30	0.80	25.10	47.77	-22.67	QP		
10		104.6800	16.70	0.80	17.50	37.77	-20.27	AVG		
11		264.0000	24.90	0.80	25.70	53.67	-27.97	QP		
12		264.0000	21.60	0.80	22.40	43.67	-21.27	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

Final Factor=probe factor+Cable loss.

File :FY15020000>Data :#7

Page: 1

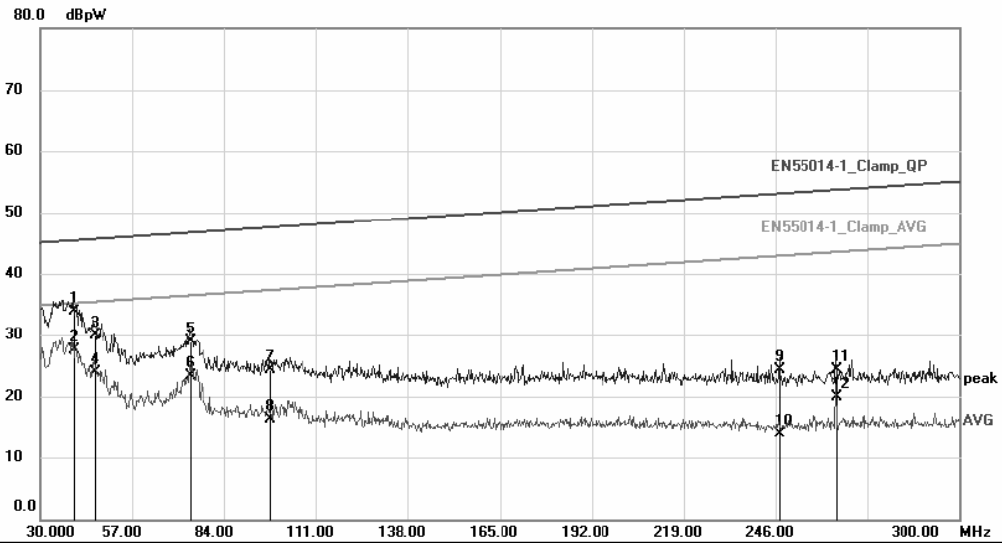
Engineer Signature: Jimmy



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Disturbance Power Measurement

File :FY15020000 Data :#8 Date: 2018-4-26 Time: 11:29:27



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTER CHARGER Power: AC110V/60Hz Humidity: 50 %
M/N: FY15020000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		39.4800	33.10	0.80	33.90	45.35	-11.45	QP		
2	*	39.4800	26.70	0.80	27.50	35.35	-7.85	AVG		
3		45.8000	29.20	0.80	30.00	45.59	-15.59	QP		
4		45.8000	23.10	0.80	23.90	35.59	-11.69	AVG		
5		73.8000	28.20	0.80	29.00	46.62	-17.62	QP		
6		73.8000	22.50	0.80	23.30	36.62	-13.32	AVG		
7		97.3200	23.60	0.80	24.40	47.49	-23.09	QP		
8		97.3200	15.60	0.80	16.40	37.49	-21.09	AVG		
9		247.3200	23.50	0.80	24.30	53.05	-28.75	QP		
10		247.3200	13.10	0.80	13.90	43.05	-29.15	AVG		
11		264.0000	23.50	0.80	24.30	53.67	-29.37	QP		
12		264.0000	19.10	0.80	19.90	43.67	-23.77	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

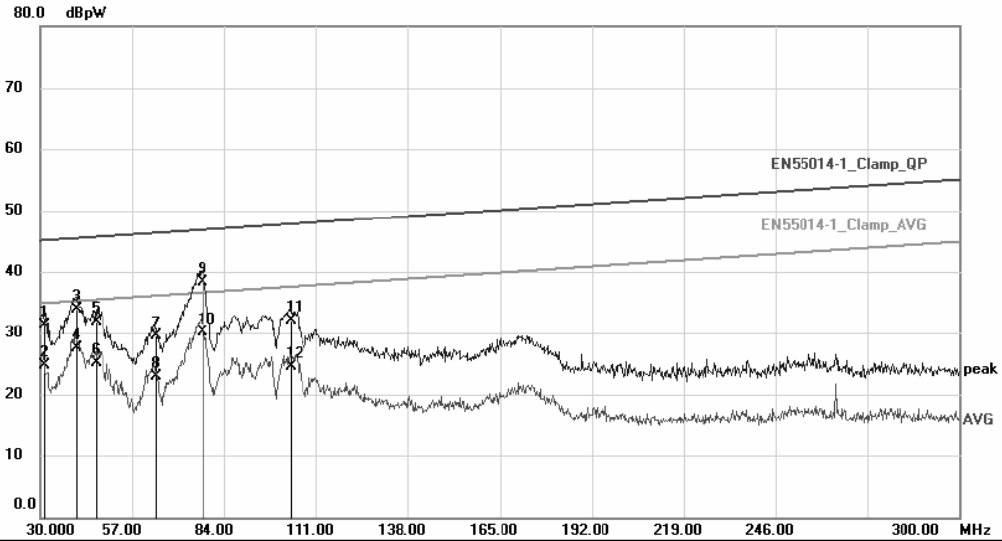
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY22517000 Data :#9 Date: 2018-4-27 Time: 17:03:48



Site
Limit: EN55014-1_Clamp_QP Temperature: 26
EUT: BATTERY CHARGER Power: AC110V/60Hz Humidity: 50 %
M/N: FY22517000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		31.0400	31.30	0.00	31.30	45.04	-13.74	QP		
2		31.0400	24.70	0.00	24.70	35.04	-10.34	AVG		
3		40.3600	33.90	0.00	33.90	45.38	-11.48	QP		
4		40.3600	27.60	0.00	27.60	35.38	-7.78	AVG		
5		46.3600	32.00	0.00	32.00	45.61	-13.61	QP		
6		46.3600	25.10	0.00	25.10	35.61	-10.51	AVG		
7		63.8000	29.60	0.00	29.60	46.25	-16.65	QP		
8		63.8000	23.00	0.00	23.00	36.25	-13.25	AVG		
9		77.5199	38.40	0.00	38.40	46.76	-8.36	QP		
10	*	77.5199	30.20	0.00	30.20	36.76	-6.56	AVG		
11		103.4800	32.10	0.00	32.10	47.72	-15.62	QP		
12		103.4800	24.50	0.00	24.50	37.72	-13.22	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

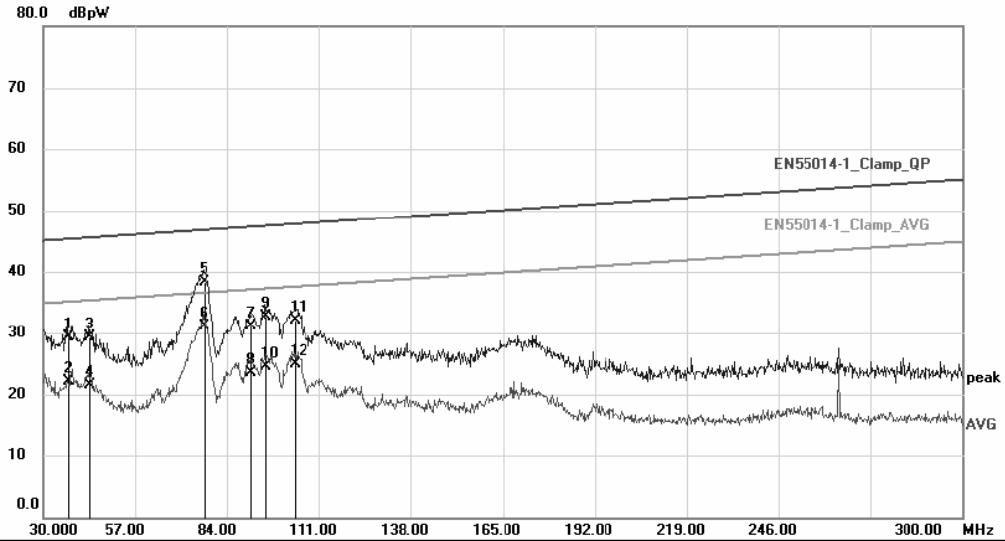
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY22517000 Data :#10 Date: 2018-4-27 Time: 17:10:57



Site
Limit: EN55014-1_Clamp_QP
EUT: BATTERY CHARGER
M/N: FY22517000
Mode: Full Load
Note: DC Line
Temperature: 26
Humidity: 50 %
Power: AC230V/50Hz

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		37.2000	29.30	0.00	29.30	45.27	-15.97	QP		
2		37.2000	22.10	0.00	22.10	35.27	-13.17	AVG		
3		43.4000	29.30	0.00	29.30	45.50	-16.20	QP		
4		43.4000	21.60	0.00	21.60	35.50	-13.90	AVG		
5		77.0400	38.40	0.00	38.40	46.74	-8.34	QP		
6	*	77.0400	31.10	0.00	31.10	36.74	-5.64	AVG		
7		90.8800	31.10	0.00	31.10	47.25	-16.15	QP		
8		90.8800	23.60	0.00	23.60	37.25	-13.65	AVG		
9		95.2800	32.80	0.00	32.80	47.42	-14.62	QP		
10		95.2800	24.50	0.00	24.50	37.42	-12.92	AVG		
11		103.8000	32.10	0.00	32.10	47.73	-15.63	QP		
12		103.8000	25.00	0.00	25.00	37.73	-12.73	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

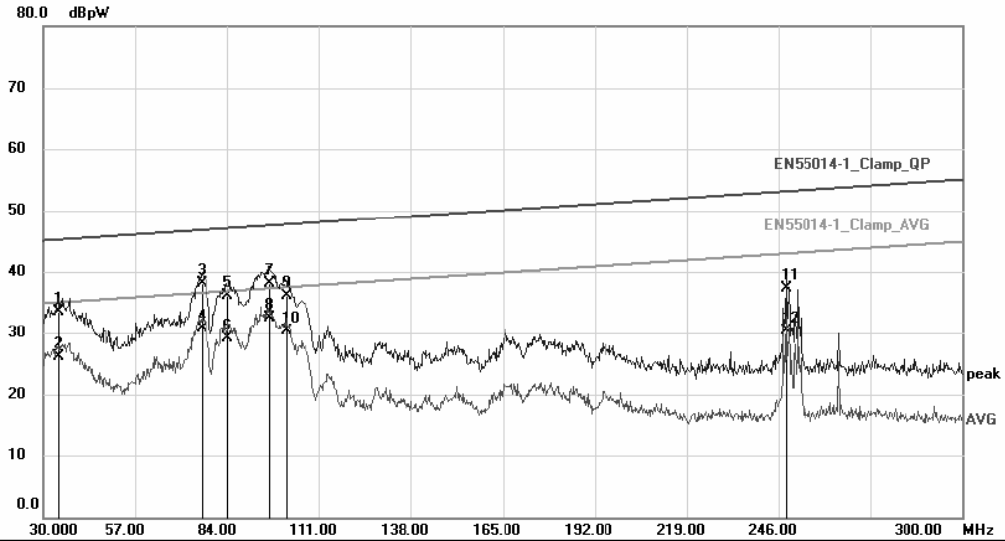
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY22517000 Data :#11 Date: 2018-4-27 Time: 17:18:44



Site
Limit: EN55014-1_Clamp_QP Temperature: 26
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY22517000 Humidity: 50 %
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Position	
		MHz	dBpW	dB	dBpW	dBpW	dB	Detector	cm Comment
1		34.1600	33.50	0.00	33.50	45.15	-11.65	QP	
2		34.1600	26.10	0.00	26.10	35.15	-9.05	AVG	
3		76.6400	38.20	0.00	38.20	46.73	-8.53	QP	
4		76.6400	30.80	0.00	30.80	36.73	-5.93	AVG	
5		83.8399	36.20	0.00	36.20	46.99	-10.79	QP	
6		83.8399	29.10	0.00	29.10	36.99	-7.89	AVG	
7		96.2800	38.10	0.00	38.10	47.45	-9.35	QP	
8	*	96.2800	32.50	0.00	32.50	37.45	-4.95	AVG	
9		101.4800	36.20	0.00	36.20	47.65	-11.45	QP	
10		101.4800	30.40	0.00	30.40	37.65	-7.25	AVG	
11		248.2800	37.30	0.00	37.30	53.08	-15.78	QP	
12		248.2800	30.40	0.00	30.40	43.08	-12.68	AVG	

*:Maximum data x:Over limit !:over margin <Reference Only

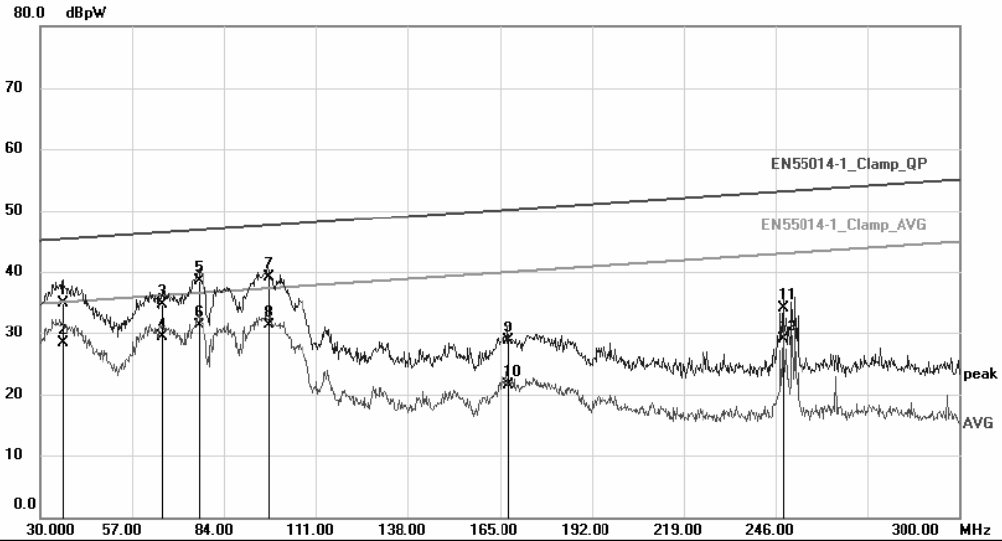
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY22517000 Data :#12 Date: 2018-4-27 Time: 17:25:31



Site: Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY22517000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		36.5200	35.00	0.00	35.00	45.24	-10.24	QP		
2		36.5200	28.40	0.00	28.40	35.24	-6.84	AVG		
3		65.8799	34.80	0.00	34.80	46.33	-11.53	QP		
4		65.8799	29.30	0.00	29.30	36.33	-7.03	AVG		
5		76.4400	38.60	0.00	38.60	46.72	-8.12	QP		
6	*	76.4400	31.30	0.00	31.30	36.72	-5.42	AVG		
7		96.8399	39.10	0.00	39.10	47.48	-8.38	QP		
8		96.8399	31.30	0.00	31.30	37.48	-6.18	AVG		
9		167.4798	28.80	0.00	28.80	50.09	-21.29	QP		
10		167.4798	21.60	0.00	21.60	40.09	-18.49	AVG		
11		248.2800	34.10	0.00	34.10	53.08	-18.98	QP		
12		248.2800	29.00	0.00	29.00	43.08	-14.08	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

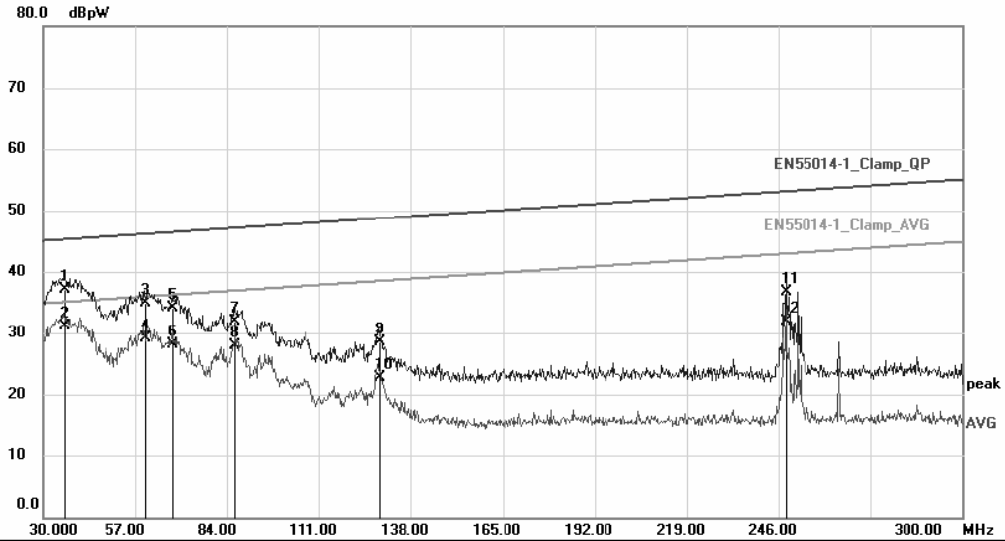
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY32012000 Data :#5 Date: 2018-4-26 Time: 14:03:33



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY32012000 Humidity: 50 %
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		35.9600	36.30	0.80	37.10	45.22	-8.12	QP		
2	*	35.9600	30.30	0.80	31.10	35.22	-4.12	AVG		
3		59.8800	34.10	0.80	34.90	46.11	-11.21	QP		
4		59.8800	28.40	0.80	29.20	36.11	-6.91	AVG		
5		67.9200	33.40	0.80	34.20	46.40	-12.20	QP		
6		67.9200	27.30	0.80	28.10	36.40	-8.30	AVG		
7		86.3200	31.10	0.80	31.90	47.09	-15.19	QP		
8		86.3200	27.20	0.80	28.00	37.09	-9.09	AVG		
9		128.5600	27.80	0.80	28.60	48.65	-20.05	QP		
10		128.5600	22.00	0.80	22.80	38.65	-15.85	AVG		
11		248.2800	36.00	0.80	36.80	53.08	-16.28	QP		
12		248.2800	31.10	0.80	31.90	43.08	-11.18	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

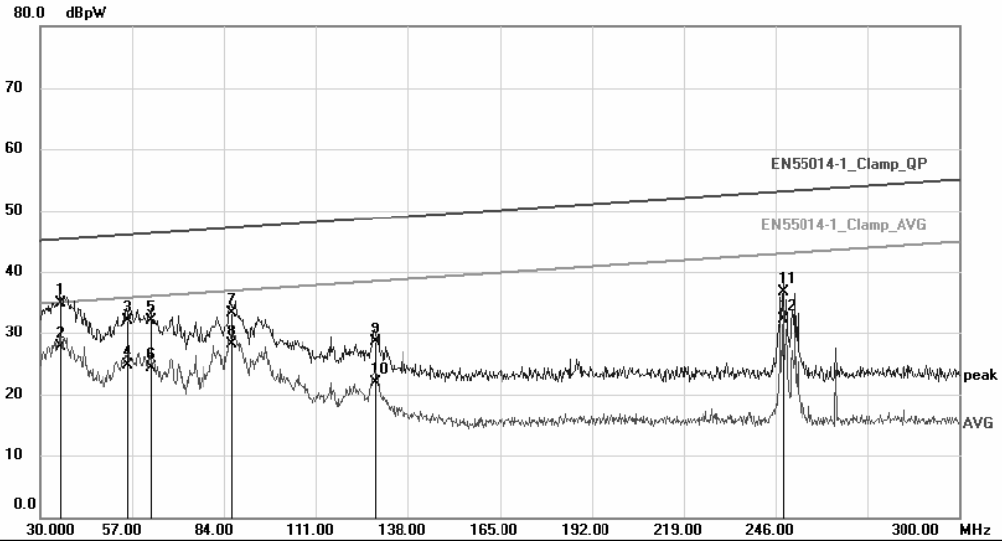
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY32012000 Data :#6 Date: 2018-4-26 Time: 14:10:14



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTERY CHARGER Power: AC230V/50Hz Humidity: 50 %
M/N: FY32012000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		35.7200	34.20	0.80	35.00	45.21	-10.21	QP		
2	*	35.7200	26.90	0.80	27.70	35.21	-7.51	AVG		
3		55.6000	31.30	0.80	32.10	45.95	-13.85	QP		
4		55.6000	23.90	0.80	24.70	35.95	-11.25	AVG		
5		62.4800	31.30	0.80	32.10	46.20	-14.10	QP		
6		62.4800	23.60	0.80	24.40	36.20	-11.80	AVG		
7		86.0400	32.60	0.80	33.40	47.08	-13.68	QP		
8		86.0400	27.40	0.80	28.20	37.08	-8.88	AVG		
9		128.1200	27.70	0.80	28.50	48.63	-20.13	QP		
10		128.1200	21.10	0.80	21.90	38.63	-16.73	AVG		
11		248.2800	35.90	0.80	36.70	53.08	-16.38	QP		
12		248.2800	31.50	0.80	32.30	43.08	-10.78	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

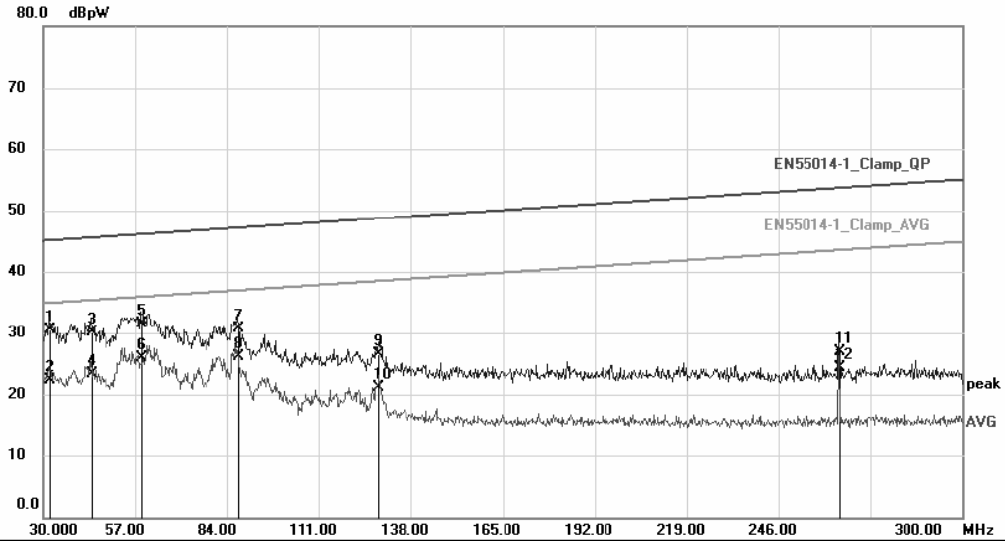
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY32012000 Data :#7 Date: 2018-4-26 Time: 14:16:27



Site: Temperature: 24
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY32012000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		31.8400	29.80	0.80	30.60	45.07	-14.47	QP		
2		31.8400	21.60	0.80	22.40	35.07	-12.67	AVG		
3		43.9600	29.40	0.80	30.20	45.52	-15.32	QP		
4		43.9600	22.50	0.80	23.30	35.52	-12.22	AVG		
5		58.8800	30.70	0.80	31.50	46.07	-14.57	QP		
6	*	58.8800	25.10	0.80	25.90	36.07	-10.17	AVG		
7		87.2000	29.90	0.80	30.70	47.12	-16.42	QP		
8		87.2000	25.30	0.80	26.10	37.12	-11.02	AVG		
9		128.4800	25.70	0.80	26.50	48.65	-22.15	QP		
10		128.4800	20.30	0.80	21.10	38.65	-17.55	AVG		
11		264.0000	26.10	0.80	26.90	53.67	-26.77	QP		
12		264.0000	23.60	0.80	24.40	43.67	-19.27	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

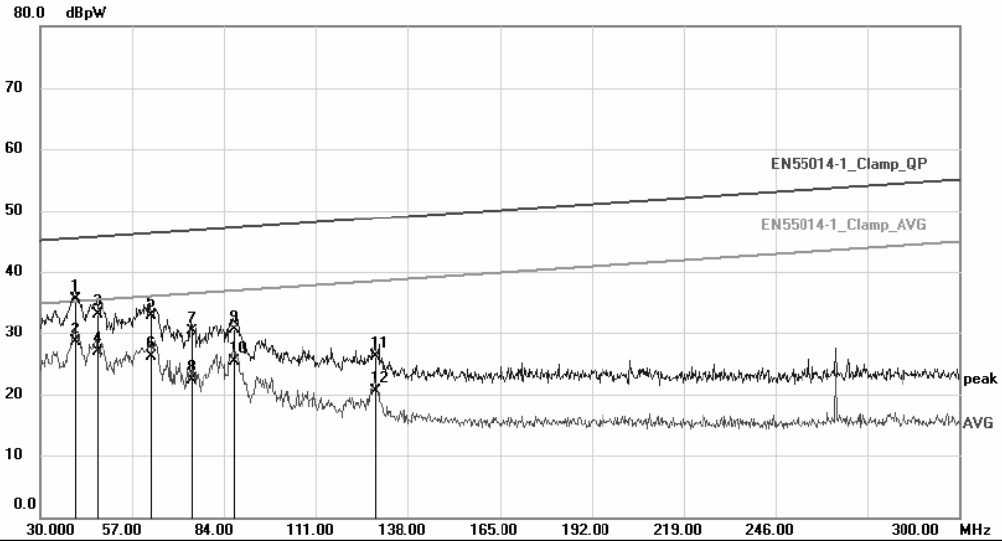
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY32012000 Data :#8 Date: 2018-4-26 Time: 14:23:20



Site
Limit: EN55014-1_Clamp_QP Temperature: 24
EUT: BATTERY CHARGER Humidity: 50 %
M/N: FY32012000 Power: AC110V/60Hz
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		40.0400	34.70	0.80	35.50	45.37	-9.87	QP		
2	*	40.0400	27.70	0.80	28.50	35.37	-6.87	AVG		
3		46.5200	32.40	0.80	33.20	45.61	-12.41	QP		
4		46.5200	26.20	0.80	27.00	35.61	-8.61	AVG		
5		62.1600	32.20	0.80	33.00	46.19	-13.19	QP		
6		62.1600	25.30	0.80	26.10	36.19	-10.09	AVG		
7		74.1600	29.60	0.80	30.40	46.64	-16.24	QP		
8		74.1600	21.50	0.80	22.30	36.64	-14.34	AVG		
9		86.9600	29.70	0.80	30.50	47.11	-16.61	QP		
10		86.9600	24.60	0.80	25.40	37.11	-11.71	AVG		
11		128.5200	25.30	0.80	26.10	48.65	-22.55	QP		
12		128.5200	19.80	0.80	20.60	38.65	-18.05	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

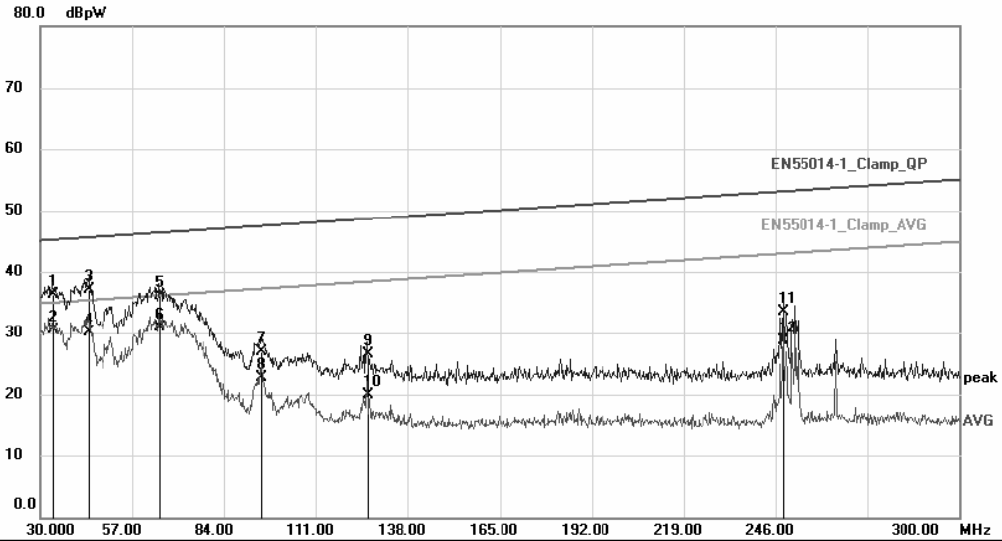
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY54607000 Data :#5 Date: 2018-4-26 Time: 15:03:51



Site _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY54607000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.5600	36.30	0.00	36.30	45.13	-8.83	QP		
2	*	33.5600	30.50	0.00	30.50	35.13	-4.63	AVG		
3		44.1200	37.20	0.00	37.20	45.52	-8.32	QP		
4		44.1200	30.10	0.00	30.10	35.52	-5.42	AVG		
5		65.0000	36.20	0.00	36.20	46.30	-10.10	QP		
6		65.0000	31.00	0.00	31.00	36.30	-5.30	AVG		
7		95.0000	27.00	0.00	27.00	47.41	-20.41	QP		
8		95.0000	22.70	0.00	22.70	37.41	-14.71	AVG		
9		125.8800	26.60	0.00	26.60	48.55	-21.95	QP		
10		125.8800	20.00	0.00	20.00	38.55	-18.55	AVG		
11		248.2800	33.50	0.00	33.50	53.08	-19.58	QP		
12		248.2800	28.80	0.00	28.80	43.08	-14.28	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

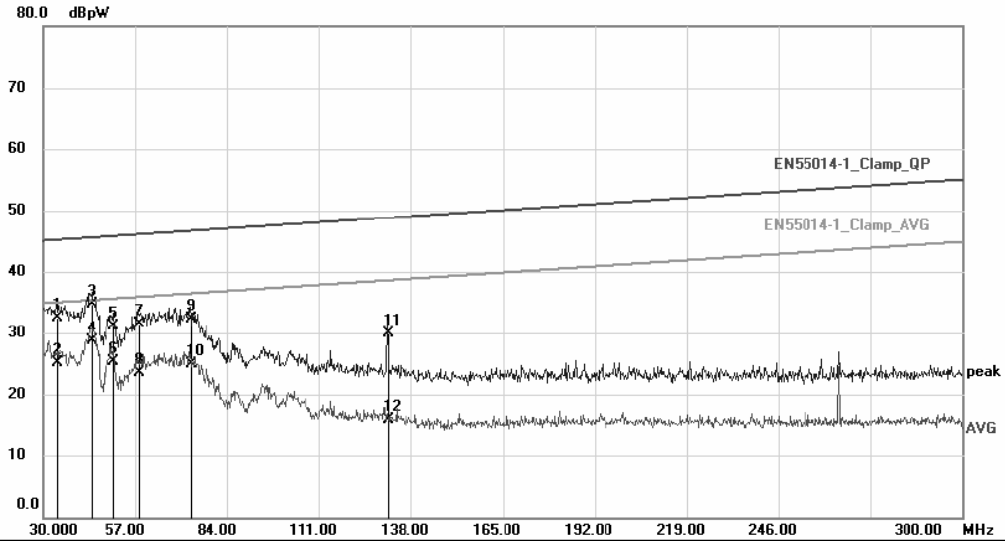
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY54607000 Data :#6 Date: 2018-4-26 Time: 15:10:24



Site: _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY54607000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		34.0400	32.60	0.00	32.60	45.15	-12.55	QP		
2		34.0400	25.10	0.00	25.10	35.15	-10.05	AVG		
3		44.0800	34.70	0.00	34.70	45.52	-10.82	QP		
4	*	44.0800	28.80	0.00	28.80	35.52	-6.72	AVG		
5		50.5600	31.20	0.00	31.20	45.76	-14.56	QP		
6		50.5600	25.30	0.00	25.30	35.76	-10.46	AVG		
7		57.9200	31.60	0.00	31.60	46.03	-14.43	QP		
8		57.9200	23.60	0.00	23.60	36.03	-12.43	AVG		
9		73.1200	32.30	0.00	32.30	46.60	-14.30	QP		
10		73.1200	24.90	0.00	24.90	36.60	-11.70	AVG		
11		131.1600	30.00	0.00	30.00	48.75	-18.75	QP		
12		131.1600	16.00	0.00	16.00	38.75	-22.75	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

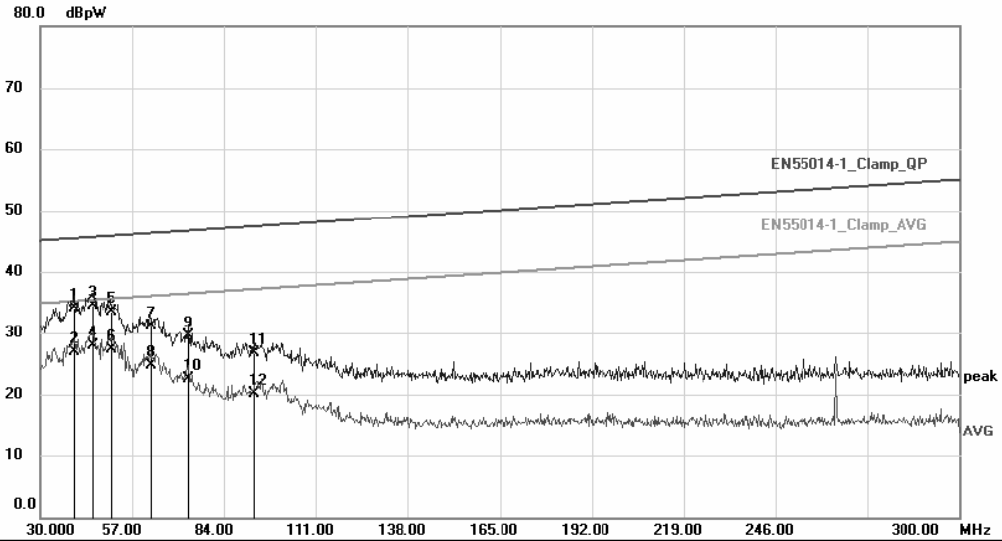
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY54607000 Data :#7 Date: 2018-4-26 Time: 15:18:47



Site: _____ Temperature: 26
 Limit: EN55014-1_Clamp_QP Humidity: 50 %
 EUT: BATTERY CHARGER Power: AC230V/50Hz
 M/N: FY54607000
 Mode: Full Load
 Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		39.8400	34.20	0.00	34.20	45.36	-11.16	QP		
2		39.8400	26.90	0.00	26.90	35.36	-8.46	AVG		
3		45.0800	34.50	0.00	34.50	45.56	-11.06	QP		
4	*	45.0800	28.00	0.00	28.00	35.56	-7.56	AVG		
5		50.8400	33.60	0.00	33.60	45.77	-12.17	QP		
6		50.8400	27.40	0.00	27.40	35.77	-8.37	AVG		
7		62.4000	31.20	0.00	31.20	46.20	-15.00	QP		
8		62.4000	24.80	0.00	24.80	36.20	-11.40	AVG		
9		73.2800	29.60	0.00	29.60	46.60	-17.00	QP		
10		73.2800	22.60	0.00	22.60	36.60	-14.00	AVG		
11		92.6400	26.70	0.00	26.70	47.32	-20.62	QP		
12		92.6400	20.10	0.00	20.10	37.32	-17.22	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

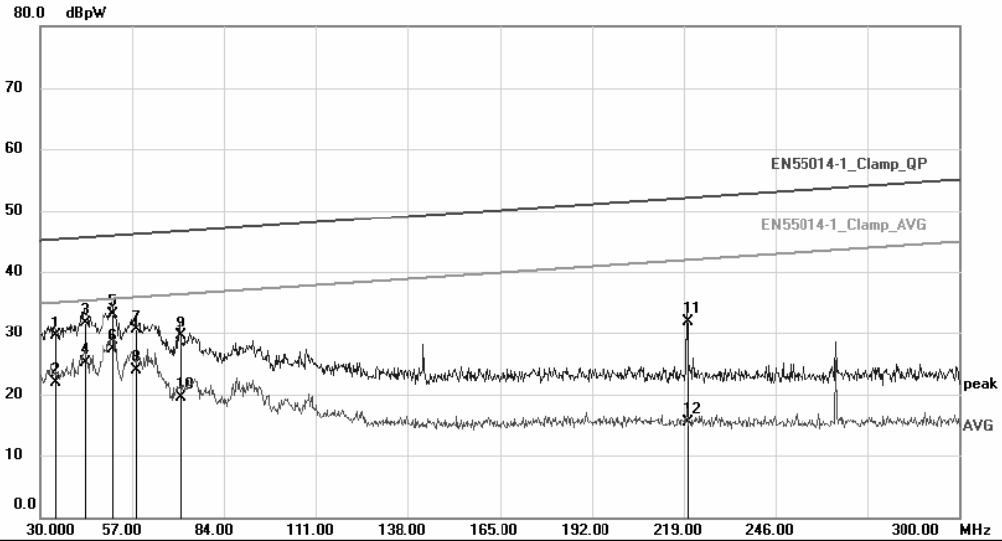
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY54607000 Data :#8 Date: 2018-4-26 Time: 15:25:44



Site Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY54607000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		34.1600	29.60	0.00	29.60	45.15	-15.55	QP		
2		34.1600	21.90	0.00	21.90	35.15	-13.25	AVG		
3		42.8800	31.80	0.00	31.80	45.48	-13.68	QP		
4		42.8800	25.20	0.00	25.20	35.48	-10.28	AVG		
5		51.2000	33.10	0.00	33.10	45.79	-12.69	QP		
6	*	51.2000	27.30	0.00	27.30	35.79	-8.49	AVG		
7		58.3200	30.50	0.00	30.50	46.05	-15.55	QP		
8		58.3200	23.90	0.00	23.90	36.05	-12.15	AVG		
9		70.8800	29.60	0.00	29.60	46.51	-16.91	QP		
10		70.8800	19.60	0.00	19.60	36.51	-16.91	AVG		
11		219.8400	31.90	0.00	31.90	52.03	-20.13	QP		
12		219.8400	15.60	0.00	15.60	42.03	-26.43	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

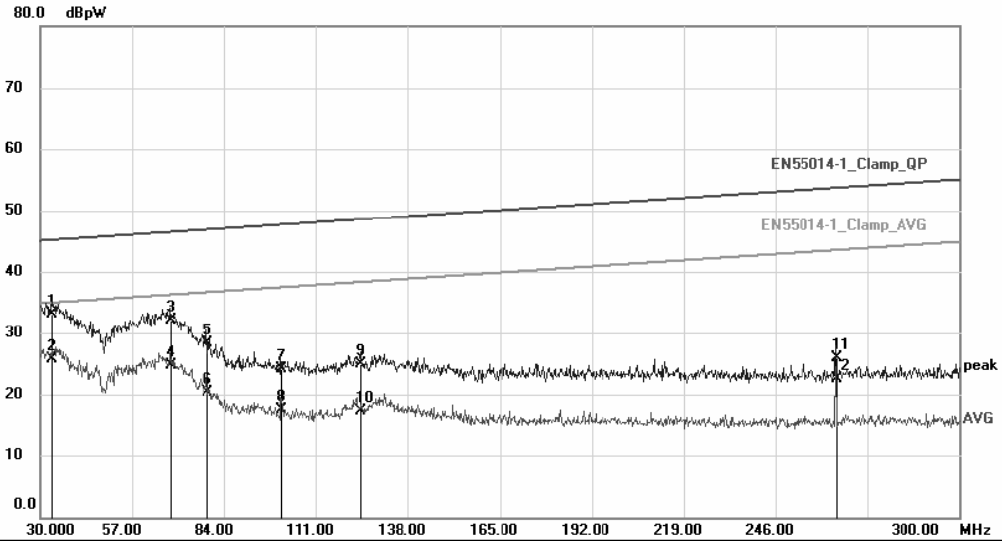
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY64806000 Data :#5 Date: 2018-4-26 Time: 16:18:00



Site _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY64806000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.4400	33.20	0.00	33.20	45.13	-11.93	QP		
2	*	33.4400	25.70	0.00	25.70	35.13	-9.43	AVG		
3		68.2400	32.20	0.00	32.20	46.42	-14.22	QP		
4		68.2400	24.70	0.00	24.70	36.42	-11.72	AVG		
5		78.8800	28.40	0.00	28.40	46.81	-18.41	QP		
6		78.8800	20.40	0.00	20.40	36.81	-16.41	AVG		
7		100.7200	24.20	0.00	24.20	47.62	-23.42	QP		
8		100.7200	17.50	0.00	17.50	37.62	-20.12	AVG		
9		124.0400	24.90	0.00	24.90	48.48	-23.58	QP		
10		124.0400	17.40	0.00	17.40	38.48	-21.08	AVG		
11		264.0000	25.90	0.00	25.90	53.67	-27.77	QP		
12		264.0000	22.50	0.00	22.50	43.67	-21.17	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

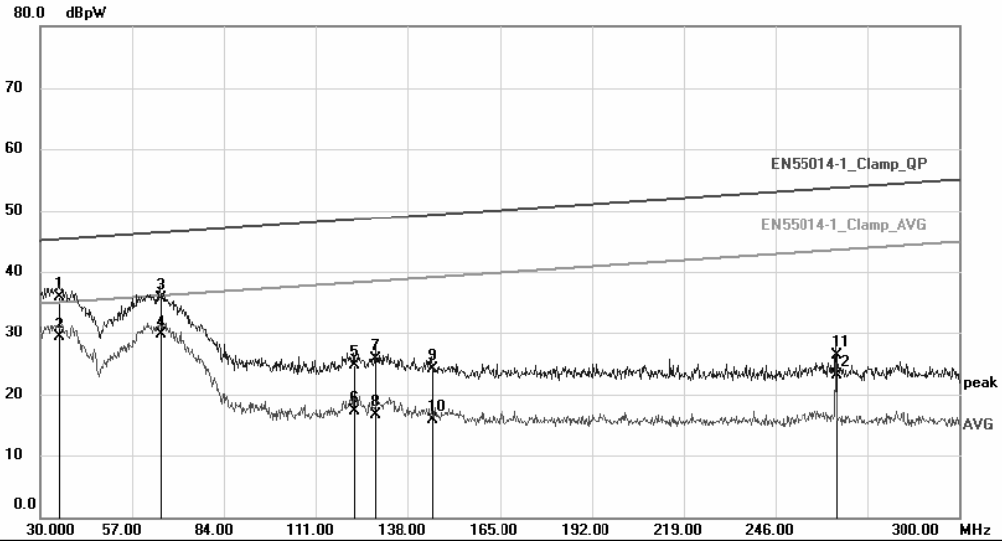
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY64806000 Data :#6 Date: 2018-4-26 Time: 16:25:20



Site _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY64806000
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		35.4800	35.90	0.00	35.90	45.20	-9.30	QP		
2	*	35.4800	29.40	0.00	29.40	35.20	-5.80	AVG		
3		65.2000	35.70	0.00	35.70	46.30	-10.60	QP		
4		65.2000	29.70	0.00	29.70	36.30	-6.60	AVG		
5		122.1600	24.70	0.00	24.70	48.41	-23.71	QP		
6		122.1600	17.40	0.00	17.40	38.41	-21.01	AVG		
7		128.4400	25.70	0.00	25.70	48.65	-22.95	QP		
8		128.4400	16.80	0.00	16.80	38.65	-21.85	AVG		
9		145.2400	24.10	0.00	24.10	49.27	-25.17	QP		
10		145.2400	15.90	0.00	15.90	39.27	-23.37	AVG		
11		264.0000	26.30	0.00	26.30	53.67	-27.37	QP		
12		264.0000	23.10	0.00	23.10	43.67	-20.57	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

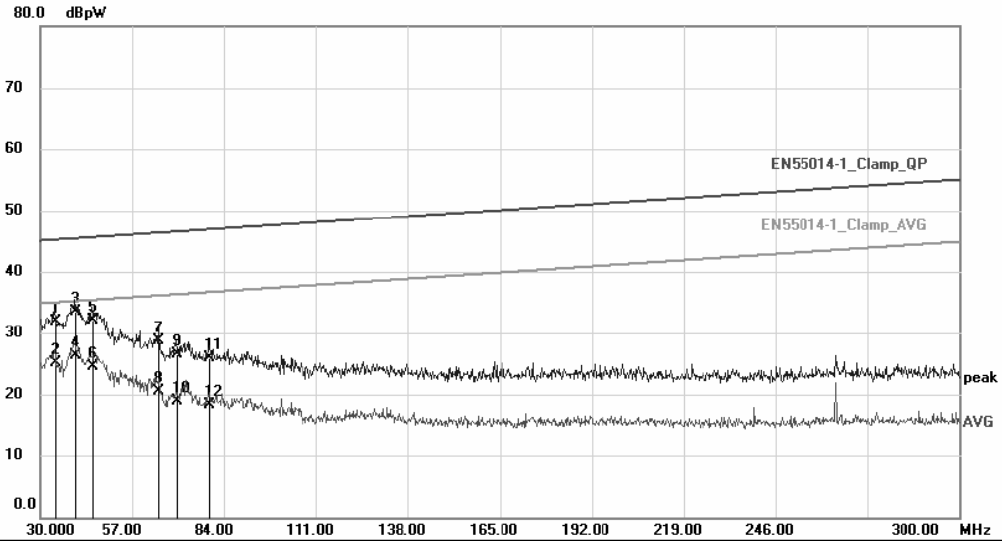
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY64806000 Data :#7 Date: 2018-4-26 Time: 16:32:43



Site Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY64806000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		34.2400	31.90	0.00	31.90	45.16	-13.26	QP		
2		34.2400	25.20	0.00	25.20	35.16	-9.96	AVG		
3		40.1200	33.50	0.00	33.50	45.37	-11.87	QP		
4	*	40.1200	26.40	0.00	26.40	35.37	-8.97	AVG		
5		45.0400	32.20	0.00	32.20	45.56	-13.36	QP		
6		45.0400	24.60	0.00	24.60	35.56	-10.96	AVG		
7		64.8000	28.80	0.00	28.80	46.29	-17.49	QP		
8		64.8000	20.60	0.00	20.60	36.29	-15.69	AVG		
9		69.8399	26.60	0.00	26.60	46.48	-19.88	QP		
10		69.8399	18.90	0.00	18.90	36.48	-17.58	AVG		
11		79.8000	25.90	0.00	25.90	46.84	-20.94	QP		
12		79.8000	18.30	0.00	18.30	36.84	-18.54	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

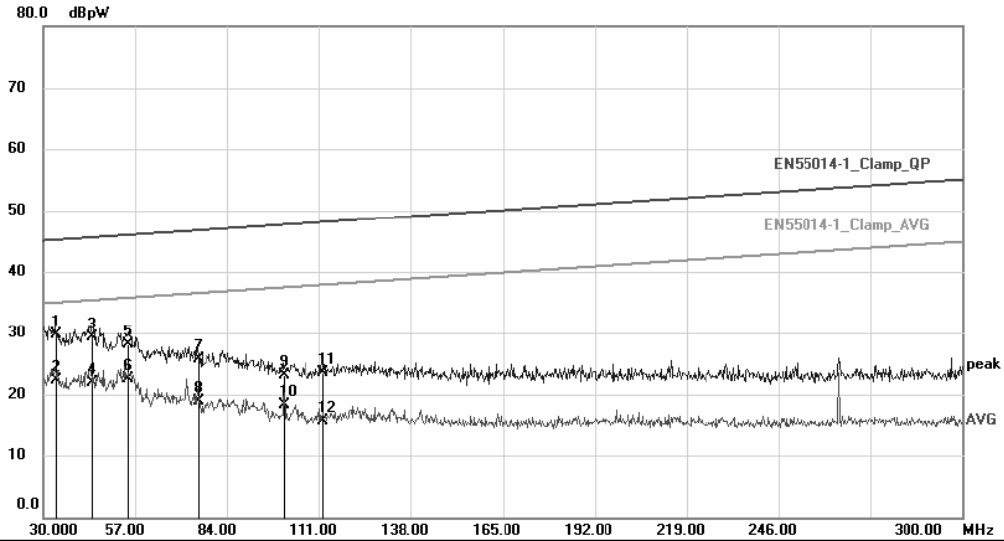
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY64806000 Data :#8 Date: 2018-4-26 Time: 16:39:59



Site _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY64806000
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.5600	29.80	0.00	29.80	45.13	-15.33	QP		
2	*	33.5600	22.30	0.00	22.30	35.13	-12.83	AVG		
3		43.8000	29.30	0.00	29.30	45.51	-16.21	QP		
4		43.8000	21.90	0.00	21.90	35.51	-13.61	AVG		
5		55.0800	28.10	0.00	28.10	45.93	-17.83	QP		
6		55.0800	22.50	0.00	22.50	35.93	-13.43	AVG		
7		75.1600	25.70	0.00	25.70	46.67	-20.97	QP		
8		75.1600	19.00	0.00	19.00	36.67	-17.67	AVG		
9		100.7200	23.10	0.00	23.10	47.62	-24.52	QP		
10		100.7200	18.40	0.00	18.40	37.62	-19.22	AVG		
11		111.9600	23.60	0.00	23.60	48.04	-24.44	QP		
12		111.9600	15.70	0.00	15.70	38.04	-22.34	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

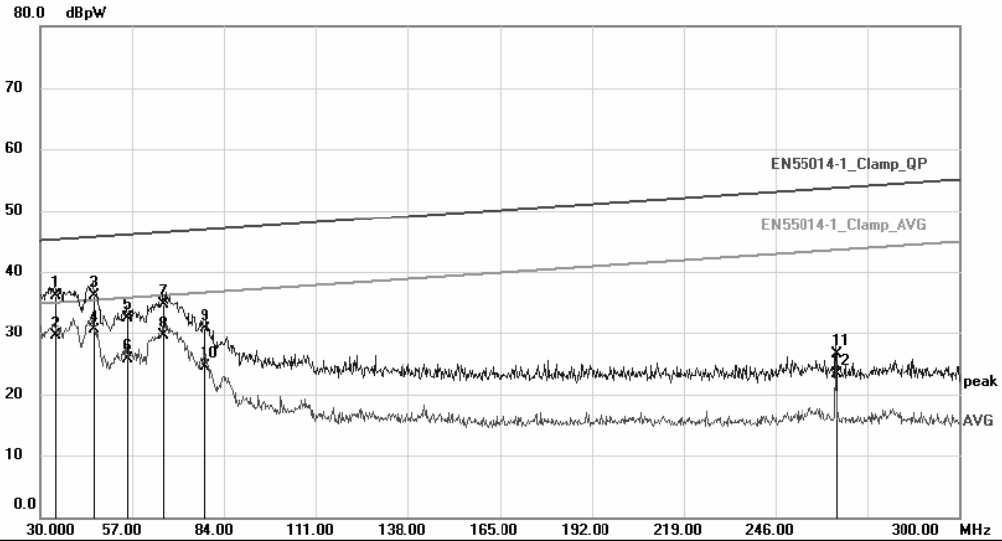
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY87004500 Data :#5 Date: 2018-4-25 Time: 15:21:50



Site: _____ Temperature: 26
 Limit: EN55014-1_Clamp_QP Humidity: 50 %
 EUT: BATTERY CHARGER Power: AC110V/60Hz
 M/N: FY87004500
 Mode: Full Load
 Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		34.1200	36.10	0.00	36.10	45.15	-9.05	QP		
2		34.1200	29.50	0.00	29.50	35.15	-5.65	AVG		
3		45.4000	36.20	0.00	36.20	45.57	-9.37	QP		
4	*	45.4000	30.60	0.00	30.60	35.57	-4.97	AVG		
5		55.4800	32.50	0.00	32.50	45.94	-13.44	QP		
6		55.4800	25.70	0.00	25.70	35.94	-10.24	AVG		
7		65.9200	34.70	0.00	34.70	46.33	-11.63	QP		
8		65.9200	29.60	0.00	29.60	36.33	-6.73	AVG		
9		78.0800	30.70	0.00	30.70	46.78	-16.08	QP		
10		78.0800	24.50	0.00	24.50	36.78	-12.28	AVG		
11		264.0000	26.60	0.00	26.60	53.67	-27.07	QP		
12		264.0000	23.40	0.00	23.40	43.67	-20.27	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

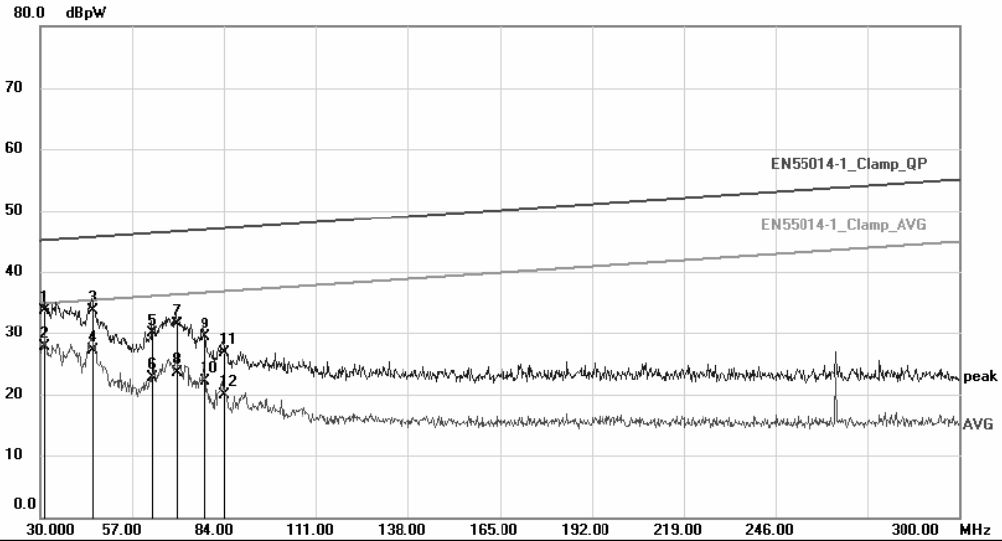
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY87004500 Data :#6 Date: 2018-4-25 Time: 15:29:23



Site _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC230V/50Hz
M/N: FY87004500
Mode: Full Load
Note: AC Mains

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		31.2000	33.70	0.00	33.70	45.04	-11.34	QP		
2	*	31.2000	27.70	0.00	27.70	35.04	-7.34	AVG		
3		45.0000	33.70	0.00	33.70	45.56	-11.86	QP		
4		45.0000	27.20	0.00	27.20	35.56	-8.36	AVG		
5		62.9200	30.00	0.00	30.00	46.22	-16.22	QP		
6		62.9200	22.80	0.00	22.80	36.22	-13.42	AVG		
7		69.7600	31.60	0.00	31.60	46.47	-14.87	QP		
8		69.7600	23.50	0.00	23.50	36.47	-12.97	AVG		
9		78.0800	29.40	0.00	29.40	46.78	-17.38	QP		
10		78.0800	22.10	0.00	22.10	36.78	-14.68	AVG		
11		83.7600	26.70	0.00	26.70	46.99	-20.29	QP		
12		83.7600	20.00	0.00	20.00	36.99	-16.99	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

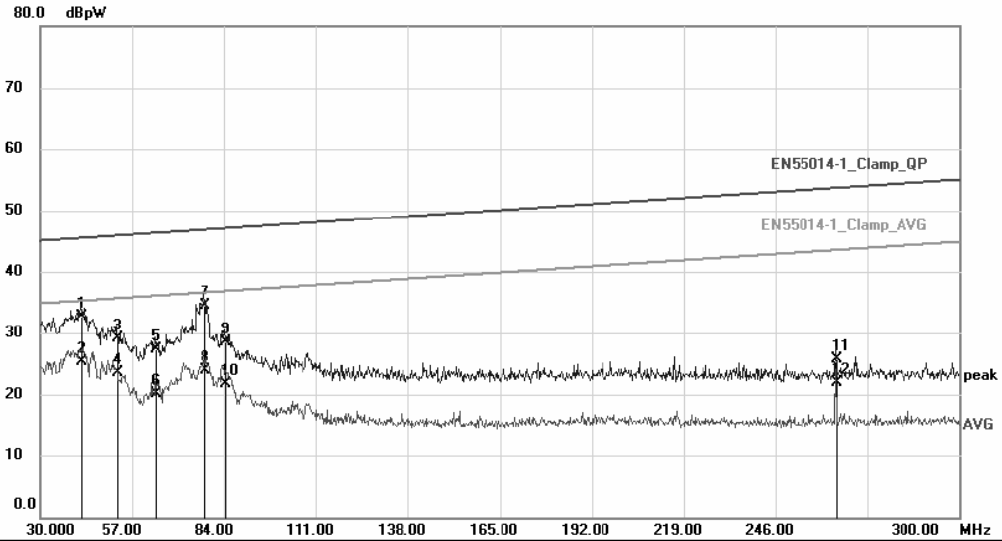
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY87004500 Data :#7 Date: 2018-4-25 Time: 15:36:23



Site
Limit: EN55014-1_Clamp_QP
EUT: BATTERY CHARGER
M/N: FY87004500
Mode: Full Load
Note: DC Line
Temperature: 26
Humidity: 50 %
Power: AC230V/50Hz

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		41.7200	32.80	0.00	32.80	45.43	-12.63	QP		
2	*	41.7200	25.40	0.00	25.40	35.43	-10.03	AVG		
3		52.4400	29.10	0.00	29.10	45.83	-16.73	QP		
4		52.4400	23.50	0.00	23.50	35.83	-12.33	AVG		
5		63.9200	27.30	0.00	27.30	46.26	-18.96	QP		
6		63.9200	20.10	0.00	20.10	36.26	-16.16	AVG		
7		78.1200	34.50	0.00	34.50	46.78	-12.28	QP		
8		78.1200	23.90	0.00	23.90	36.78	-12.88	AVG		
9		84.4000	28.50	0.00	28.50	47.01	-18.51	QP		
10		84.4000	21.80	0.00	21.80	37.01	-15.21	AVG		
11		264.0000	25.70	0.00	25.70	53.67	-27.97	QP		
12		264.0000	22.00	0.00	22.00	43.67	-21.67	AVG		

*:Maximum data x:Over limit !:over margin (Reference Only)

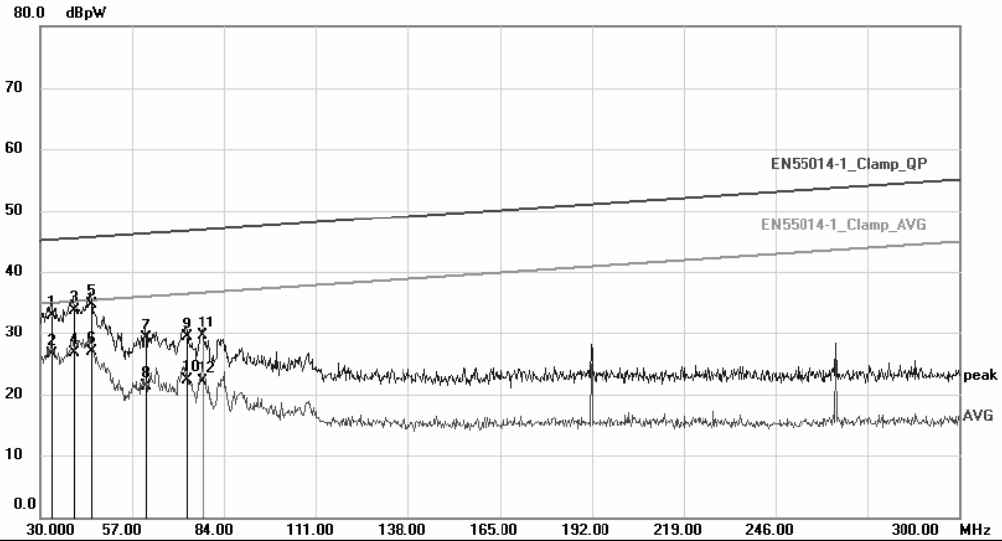
Final Factor=probe factor+Cable loss.



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Disturbance Power Measurement

File :FY87004500 Data :#8 Date: 2018-4-25 Time: 15:42:54



Site: _____ Temperature: 26
Limit: EN55014-1_Clamp_QP Humidity: 50 %
EUT: BATTERY CHARGER Power: AC110V/60Hz
M/N: FY87004500
Mode: Full Load
Note: DC Line

No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector	Position cm	Comment
1		33.3200	32.90	0.00	32.90	45.12	-12.22	QP		
2	*	33.3200	26.60	0.00	26.60	35.12	-8.52	AVG		
3		39.6000	33.80	0.00	33.80	45.36	-11.56	QP		
4		39.6000	26.70	0.00	26.70	35.36	-8.66	AVG		
5		44.6800	34.80	0.00	34.80	45.54	-10.74	QP		
6		44.6800	27.00	0.00	27.00	35.54	-8.54	AVG		
7		61.0400	29.10	0.00	29.10	46.15	-17.05	QP		
8		61.0400	21.40	0.00	21.40	36.15	-14.75	AVG		
9		72.8800	29.30	0.00	29.30	46.59	-17.29	QP		
10		72.8800	22.40	0.00	22.40	36.59	-14.19	AVG		
11		77.7600	29.50	0.00	29.50	46.77	-17.27	QP		
12		77.7600	22.10	0.00	22.10	36.77	-14.67	AVG		

*:Maximum data x:Over limit !:over margin <Reference Only

Final Factor=probe factor+Cable loss.

Injected Currents Susceptibility Test Results

Serial No.: TR-4-E-021 Rev:A/0

Standard:	<input checked="" type="checkbox"/> EN 61000-4-6 <input type="checkbox"/> IEC 61000-4-6	Result :	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
Ambient Condition: Temp.: <u>20</u> °C R.H.: <u>51</u> % Air Pressure: <u>101</u> kPa			
Applicant : <u>Fuyuan</u>			
EUT : <u>BATTERY CHARGER</u> M/N : <u>FY08520000,FY15020000,FY22517000, FY32012000,FY54607000,FY64806000, FY87004500</u>			
Power Supply: <u>AC230V/50Hz</u> Required Performance Criterion: <u>A</u>			
Test Specifications: Modulation: <input type="checkbox"/> None <input checked="" type="checkbox"/> AM <u>1</u> kHz, <u>80</u> %			
Test mode:	Full Load		
Test Port	Frequency (MHz)	Level(V)	Result (Performance Criterion)
AC Mains	0.15-230MHz	3	A
Note :			

Date: 2018-5-30

Test Engineer : Ivan

Voltage Dips And Interruptions Test Results

Serial No.: TR-4-E-019 Rev:A/0

Standard:	<input checked="" type="checkbox"/> EN 61000-4-11 <input type="checkbox"/> IEC 61000-4-11	Result :	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
Ambient Condition: Temp.: <u>22</u> °C R.H.: <u>53</u> % Air Pressure: <u>101</u> kPa			
Applicant : <u>Fuyuan</u>			
EUT : <u>BATTERY CHARGER</u> M/N : <u>FY08520000,FY15020000,FY22517000,</u> <u>FY32012000,FY54607000,FY64806000,</u> <u>FY87004500</u>			
Power Supply: <u>AC230V,50/60Hz</u>		Required Performance Criterion: <u>C</u>	
Test mode:	Full Load		
Test Level % UT	Duration (in period)		Result (Performance Criterion)
	50Hz	60Hz	
0%	0.5P	0.5P	A
40%	10P	12P	B
70%	25P	30P	A
Note :			

Date: 2018-5-25

Test Engineer : Ivan

Electrical Fast Transient/Burst Test Results

Serial No.: TR-4-E-017 Rev:A/0

Standard:	<input checked="" type="checkbox"/> EN 61000-4-4 <input type="checkbox"/> IEC 61000-4-4	Result :	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
Ambient Condition: Temp.: <u>22</u> °C R.H.: <u>53</u> % Air Pressure: <u>101</u> kPa			
Applicant : <u>Fuyuan</u>			
EUT : <u>BATTERY CHARGER</u> M/N : <u>FY08520000,FY15020000,FY22517000, FY32012000,FY54607000,FY64806000, FY87004500</u>			
Power Supply: <u>AC230V/50Hz</u> Required Performance Criterion: <u>B</u>			
Line:	<input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> Control Line	<input checked="" type="checkbox"/> DC Line	<input type="checkbox"/> Signal Line
Coupling:	<input checked="" type="checkbox"/> Direct	<input checked="" type="checkbox"/> Capacitive	
Test mode:	Full Load		
Line	Test Voltage	Result (Performance Criterion)	
L	±1KV	A	
N	±1KV	A	
PE	±1KV	A	
L · N	±1KV	A	
L · PE	±1KV	A	
N · PE	±1KV	A	
L · N · PE	±1KV	A	
Signal line			
Note :			
Test Equipment : Burst Tester(EM TEST, UCS500N)			

Date: 2018-5-25

Test Engineer : Ivan

Electrostatic Discharge Test Results

Serial No.: TR-4-E-016 Rev:A/0

Standard:	<input checked="" type="checkbox"/> EN 61000-4-2 <input type="checkbox"/> IEC 61000-4-2	Result :	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
Ambient Condition: Temp.: <u>22</u> °C R.H.: <u>53</u> % Air Pressure: <u>101</u> kPa Applicant : <u>Fuyuan</u> EUT : <u>BATTERY CHARGER</u> M/N : <u>FY08520000,FY15020000,FY22517000,</u> <u>FY32012000,FY54607000,FY64806000,</u> <u>FY87004500</u> Power Supply: <u>AC230V/50Hz</u> Required Performance Criterion: B Test Specifications: Air Discharge: ± <u>8</u> Kv; Contact Discharge: ± <u>4</u> kV For each point positive >10 times and negative >10 times Tested mode: <u>Full Load</u>			
Test Point	Kind A-Air Discharge C-Contact Discharge	Result (Performance Criterion)	
Slot of the EUT	A	A	
Output	C	A	
Indicator light	A	A	
Indirect Discharge(HCP)	C	A	
Indirect Discharge(VCP)	C	A	
Note:			

Date: 2018-5-26

Test Engineer : Ivan

Surge Immunity Test Results

Serial No.: TR-4-E-018 Rev:A/0

Standard:	<input checked="" type="checkbox"/> EN 61000-4-5 <input type="checkbox"/> IEC 61000-4-5	Result :	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
Ambient Condition: Temp.: <u>22</u> °C R.H.: <u>53</u> % Air Pressure: <u>101</u> kPa			
Applicant : <u>Fuyuan</u>			
EUT : <u>BATTERY CAHRGER</u> M/N : <u>FY08520000,FY15020000,FY22517000, FY32012000,FY54607000,FY64806000, FY87004500</u>			
Power Supply: <u>AC230V/50Hz</u> Required Performance Criterion: <u>B</u>			
Line : <input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Line <input type="checkbox"/> Signal Line <input type="checkbox"/> Control Line			
Test mode:	Full Load		
Line	Phase Angle	Test Voltage	Result (Performance Criterion)
POS-NEG	+90°, -270°	±1KV	A
POS-PE	+90°, -270°	±2KV	A
NEG-PE	+90°, -270°	±2KV	A
Signal line			
DC line			
Note :			

Date: 2018-5-27

Test Engineer : Ivan

Measurement Uncertainties

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.94 dB ± 2.70 dB	± 3.8 dB ± 3.4 dB
Power disturbance	Level accuracy (30MHz to 300MHz)	± 2.80 dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.10 dB	N/A
Radiated Emission	Level accuracy (30MHz to 200MHz) – Hor (30MHz to 200MHz) – Ver	± 3.24 dB ± 3.40 dB	± 6.3 dB
	Level accuracy (200MHz to 1000MHz) – Hor (200MHz to 1000MHz) – Ver	± 3.42 dB ± 3.40 dB	± 6.3 dB
	Level accuracy (1000MHz to 6000MHz) – Hor (1000MHz to 6000MHz) – Ver	± 3.79 dB ± 3.84 dB	N/A
Mains Harmonic	Voltage	$\pm 3.30\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 3.70\%$	N/A

As U_{lab} in all applicable tests listed above are less than U_{cispr} according to CISPR 16-4-2:2011,

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.