EMC TEST REPORT

For

ZHAOQING SHIRFERLY MACHINERY CO., LTD AUTOMATIC STRIP CUTTER

Test Model: SL-2013AS

Additional Model No.: SL-M688A, SL-2000, SL-2000AS, SL-2011AS,

SL-2013AS-II, SL-2016S, SL-2016AS, SL-2016T, SL-2026AS, SL-2026S,

SL-2028AS, SL-2028AS-II, SL-2030AS, SL-2030AS-II

Prepared for : ZHAOQING SHIRFERLY MACHINERY CO., LTD Address : 120 AREA GUOJING ROAD, ZHAOQING CITY,

GUANGDONG PROVINCE, CHINA

Prepared by : Shenzhen AOCE Electronic Technology Service Co., Ltd

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Web : Http://www.aoc-cert.com
Mail : postmaster@aoc-cert.com

Date of receipt of test: July 11, 2025

sample

Number of tested samples : '

Serial number : Prototype

Date of Test : July 11, 2025~July 21, 2025

Date of Report : July 21, 2025

EMC TEST REPORT EN IEC 61000-6-4:2019 & EN IEC 61000-6-2:2019

Report Reference No.: AOC250721101E

Date Of Issue.....: July 21, 2025

Testing Laboratory Name.....: Shenzhen AOCE Electronic Technology Service Co., Ltd

Industrial Park, Fuhai Street, Baoan District, Shenzhen,

Guangdong, China

Testing Location/ Procedure....: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: ZHAOQING SHIRFERLY MACHINERY CO., LTD

Address.....: 120 AREA GUOJING ROAD, ZHAOQING CITY,

GUANGDONG PROVINCE, CHINA

Test Specification

Standard..... : EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

EN IEC 61000-3-2:2019+A1:2021+A2:2024

EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022

Test Report Form No. AOCEMC-1.0

TRF Originator.....: Shenzhen AOCE Electronic Technology Service Co., Ltd

Master TRF.....: Dated 2017-09

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Test Item Description.....: AUTOMATIC STRIP CUTTER

Trade Mark.....: N/A

Test Model..... : SL-2013AS

Ratings.....: 380V, 50/60Hz, 3.0KW

Result: Positive

Compiled by: Supervised by: Approved by:

hason word Joey Un

/ / /

Johnson Wang/ Administrators

Joey Liu/ Technique principal

Murry Yu/ Manager

EMC -- TEST REPORT

Test Model..... : SL-2013AS EUT...... : AUTOMATIC STRIP CUTTER Applicant.....: : ZHAOQING SHIRFERLY MACHINERY CO., LTD Address......: 120 AREA GUOJING ROAD, ZHAOQING CITY, **GUANGDONG PROVINCE, CHINA** Telephone.....:: / Fax.....: : / Manufacturer.....: : ZHAOQING SHIRFERLY MACHINERY CO., LTD Address.....:: 120 AREA GUOJING ROAD, ZHAOQING CITY, **GUANGDONG PROVINCE, CHINA** Telephone.....:: : / Fax.....: : / Factory.....: ZHAOQING SHIRFERLY MACHINERY CO., LTD Address......:: 120 AREA GUOJING ROAD, ZHAOQING CITY, **GUANGDONG PROVINCE, CHINA** Telephone....:: / Fax.....: : /

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : AUTOMATIC STRIP CUTTER

Test Model : SL-2013AS

SL-2013AS, SL-M688A, SL-2000, SL-2000AS, SL-2011AS,

Model No. List : SL-2013AS-II, SL-2016S, SL-2016AS, SL-2016T, SL-2026AS,

SL-2026S, SL-2028AS, SL-2028AS-II, SL-2030AS,

Model No. difference: The internal structure of the product is the same, only the size

and color are different.

Power Supply : 380V, 50/60Hz, 3.0KW

Hardware Version : /

Software Version : /

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN IEC 61000-3-2:2019+A1:2021+A2:2024 and EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022.

1.6. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate

1.7. External I/O

I/O Port Description	Quantity	Cable
1	/	/

1.8. List Of Measuring Equipment

1 X-series USB Peak and Average Power Senior Agilent 2 4 CH. Simulatineous Sampling 14 Cities 24 Senior Agilent 3 Test Software Ascentest Ascentest AT890-SW 20160830 NIA NIA NIA ASCENTEST SERIES SPECTRUM ASCENTEST SERIES SPECTRUM ANALYZER ANALYZ	Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1 Power Sensor Aglient	item						
Bits 2MSis	1	Power Sensor Aglient	Agilent	U2021XA	MY54080022	2025-04-24	2026-04-23
A	2		Agilent	U2531A	MY54080016	2025-04-24	2026-04-23
Seal	3	Test Software	Ascentest	AT890-SW	20160630		N/A
5 LOSALIANALYZER Aglient E4407B MY4140754 2026-04-23 6 MXA Signal Analyzer Aglient N9020A MY49100040 2025-04-24 2026-04-23 7 SPECTRUM ANALYZER RSS FSP 100503 2025-04-24 2026-04-23 8 MXG Vector Signal Generator Aglient N5182A MY47071151 2025-04-24 2026-04-23 10 PSG Analog Signal Generator Aglient E4438C MY42081396 2025-04-24 2026-04-23 11 Universal Radio Communication Tester R8S CMU 200 105788 2025-04-24 2026-04-23 12 COMBANICA TRADIO Tester R8S CMW 500 103818 2025-04-24 2026-04-23 13 RF Control Unit Tonscend JS0806-1 N/A 2026-04-23 2026-04-23 14 DC Power Supply Aglient E3402A N/A 2026-04-23 2026-04-23 15 LTE Test Software Tonscend JS1120-1 N/A N/A N/A	4	RF Control Unit	Ascentest	AT890-RFB	N/A	2025-04-24	2026-04-23
7 SPECTRUM ANALYZER R&S FSP 100503 2025-04-24 2026-04-23 8 MXG Vector Signal Generator Aglient N5182A MY47071151 2025-04-24 2026-04-23 9 ESG VECTOR SIGNAL GENERATOR Aglient E4438C MY42081396 2025-04-24 2026-04-23 10 PSG Analog Signal Generator Aglient E8257D MY42081396 2025-04-24 2026-04-23 11 Universal Radio Communication R&S CMU 200 105788 2025-04-24 2026-04-23 12 CWIDEBAND RADDI TESTER R&S CMU 200 105788 2025-04-24 2026-04-23 13 RF Control Unit Tonscend JS0906-1 N/A 2025-04-24 2026-04-23 14 DC Power Supply Aglient E3642A N/A 2025-04-24 2026-04-23 15 LTE Test Software Tonscend JS1120-1 N/A	5		Agilent	E4407B	MY41440754	2025-04-24	2026-04-23
Society Soci	6	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2025-04-24	2026-04-23
Segretors Signal Against September Segretors S	7	SPECTRUM ANALYZER	R&S	FSP	100503	2025-04-24	2026-04-23
9	8	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2025-04-24	2026-04-23
Universal Radio Communication R&S CMU 200 105788 2025-04-24 2026-04-23	9		Agilent	E4438C	MY42081396	2025-04-24	2026-04-23
Tester	10	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2025-04-24	2026-04-23
12	11		R&S	CMU 200	105788	2025-04-24	2026-04-23
14	12		R&S	CMW 500	103818	2025-04-24	2026-04-23
Temperature & Humidity Chamber	13	RF Control Unit	Tonscend	JS0806-1	N/A	2025-04-24	2026-04-23
Temperature & Humidity Chamber GUANGZHOU GOGNWEN GOB-100 70932 7000mAh 2026-04-23	14	DC Power Supply	Agilent	E3642A	N/A	2025-04-24	2026-04-23
17	15	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
18	16	Temperature & Humidity Chamber		GDS-100	70932	7000mAh	2026-04-23
19	17	DC Source	CHROMA	62012P-80-60	34782951	2025-04-24	2026-04-23
RF Filter Micro-Tronics BRC50720 S/N-011 2025-04-24 2026-04-23	18	RF Filter	Micro-Tronics	BRC50718	S/N-017	2025-04-24	2026-04-23
20 NI Title Micro-Tronics BRC50721 S/N-013 2025-04-24 2026-04-23 21 RF Filter Micro-Tronics BRK50702 S/N-013 2025-04-24 2026-04-23 22 RF Filter Micro-Tronics BRM50702 S/N-195 2025-04-24 2026-04-23 23 Splitter/Combiner Micro-Tronics PS2-15 CB11-20 2025-04-24 2026-04-23 24 Splitter/Combiner Micro-Tronics CB11-20 N/A 2025-04-24 2026-04-23 25 Attenuator Micro-Tronics PAS-8-10 S/N23466 2025-04-24 2026-04-23 26 Exposure Level Tester Narda ELT-400 N-0713 2025-04-24 2026-04-23 27 B-Field Probe Narda ELT-400 M-1154 2025-04-24 2026-04-23 28 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2025-04-24 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 <td>19</td> <td>RF Filter</td> <td>Micro-Tronics</td> <td>BRC50719</td> <td>S/N-011</td> <td>2025-04-24</td> <td>2026-04-23</td>	19	RF Filter	Micro-Tronics	BRC50719	S/N-011	2025-04-24	2026-04-23
22 RF Filter Micro-Tronics BRM50702 S/N-195 2025-04-24 2026-04-23 23 Splitter/Combiner Micro-Tronics PS2-15 CB11-20 2025-04-24 2026-04-23 24 Splitter/Combiner Micro-Tronics CB11-20 N/A 2025-04-24 2026-04-23 25 Attenuator Micro-Tronics PAS-8-10 S/N23466 2025-04-24 2026-04-23 26 Exposure Level Tester Narda ELT-400 N-0713 2025-04-24 2026-04-23 27 B-Field Probe Narda ELT-400 M-1154 2025-04-24 2026-04-23 28 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2025-04-24 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 30 EMI Test Software AUDIX E3 N/A 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 1011181 2025-04-24 2026-04-23	20	RF Filter	Micro-Tronics	BRC50720	S/N-011	2025-04-24	2026-04-23
Splitter/Combiner Micro-Tronics PS2-15 CB11-20 2025-04-24 2026-04-23	21	RF Filter	Micro-Tronics	BRC50721	S/N-013	2025-04-24	2026-04-23
Splitter/Combiner Micro-Tronics CB11-20 N/A 2025-04-24 2026-04-23	22	RF Filter	Micro-Tronics	BRM50702	S/N-195	2025-04-24	2026-04-23
24 Splitter-Controller Micro-Tronics PAS-8-10 S/N23466 2025-04-24 2026-04-23 26 Exposure Level Tester Narda ELT-400 N-0713 2025-04-24 2026-04-23 27 B-Field Probe Narda ELT-400 M-1154 2025-04-24 2026-04-23 28 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2025-04-24 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 30 EMI Test Software AUDIX E3 N/A 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 101181 2025-04-24 2026-04-23 32 AMPLIFIER QuieTek QTK-A2525G CHM10809065 2025-04-24 2026-04-23 33 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23<	23	Splitter/Combiner	Micro-Tronics	PS2-15	CB11-20	2025-04-24	2026-04-23
25 Active Loop Antenna R&S ESR7 101181 2025-04-24 2026-04-23 26 Exposure Level Tester Narda ELT-400 N-0713 2025-04-24 2026-04-23 27 B-Field Probe Narda ELT-400 M-1154 2025-04-24 2026-04-23 28 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2025-04-24 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 30 EMI Test Software AUDIX E3 N/A 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 101181 2025-04-24 2026-04-23 32 AMPLIFIER QuieTek QTK-A2525G CHM10809065 2025-04-24 2026-04-23 33 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 <t< td=""><td>24</td><td>Splitter/Combiner</td><td>Micro-Tronics</td><td>CB11-20</td><td>N/A</td><td>2025-04-24</td><td>2026-04-23</td></t<>	24	Splitter/Combiner	Micro-Tronics	CB11-20	N/A	2025-04-24	2026-04-23
200	25	Attenuator	Micro-Tronics	PAS-8-10	S/N23466	2025-04-24	2026-04-23
28 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2025-04-24 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 30 EMI Test Software AUDIX E3 N/A 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 101181 2025-04-24 2026-04-23 32 AMPLIFIER QuieTek QTK-A2525G CHM10809065 2025-04-24 2026-04-23 33 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24	26	Exposure Level Tester	Narda	ELT-400	N-0713	2025-04-24	2026-04-23
28 3m Semi Anechoic Chamber FRANKONIA SAC-3M 03CH03-HY 2026-04-23 29 Positioning Controller MF MF-7082 / 2025-04-24 2026-04-23 30 EMI Test Software AUDIX E3 N/A 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 101181 2025-04-24 2026-04-23 32 AMPLIFIER QuieTek QTK-A2525G CHM10809065 2025-04-24 2026-04-23 33 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23	27	B-Field Probe	Narda	ELT-400	M-1154	2025-04-24	2026-04-23
SCHWARZBECK BBHA 9170 SCHWARZBECK BBV 9719 ST19-025 SCHWARZBECK BBV 9719 ST19-025 SCHWARZBECK BBV 9719 ST19-025 SCHWARZBECK SCHWARZBECK BBV 9719 ST19-025 SCHWALDBARD SCHWARZBECK	28	3m Semi Anechoic Chamber		SAC-3M	03CH03-HY	2025-04-24	2026-04-23
30 EMI Test Soltware AODIX LS INA 2025-04-24 2026-04-23 31 EMI Test Receiver R&S ESR 7 101181 2025-04-24 2026-04-23 32 AMPLIFIER QuieTek QTK-A2525G CHM10809065 2025-04-24 2026-04-23 33 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	29	Positioning Controller	MF	MF-7082	1	2025-04-24	2026-04-23
31 Elm Test Receiver	30	EMI Test Software	AUDIX	E3	N/A	2025-04-24	2026-04-23
32 Attive Loop Antenna SCHWARZBECK FMZB 1519B 00005 2025-04-24 2026-04-23 34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	31	EMI Test Receiver	R&S	ESR 7	101181	2025-04-24	2026-04-23
34 By-log Antenna SCHWARZBECK VULB9163 9163-470 2025-04-24 2026-04-23 35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	32	AMPLIFIER	QuieTek	QTK-A2525G	CHM10809065	2025-04-24	2026-04-23
35 Horn Antenna SCHWARZBECK BBHA 9120 D 9120D-1925 2025-04-24 2026-04-23 36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	33	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2025-04-24	2026-04-23
36 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2025-04-24 2026-04-23 37 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	34	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2025-04-24	2026-04-23
36 Broadband Preamplifier SCHWARZBECK BBV 9719 9719-025 2025-04-24 2026-04-23 38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	35	Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1925	2025-04-24	2026-04-23
38 RF Cable-R03m Jye Bao RG142 CB021 2025-04-24 2026-04-23	36	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2025-04-24	2026-04-23
30 NO 141 CABIC-NOSIII 390 BAO NO 142 CBOZ 1	37	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2025-04-24	2026-04-23
2025 04 04	38	RF Cable-R03m	Jye Bao	RG142	CB021	2025-04-24	2026-04-23
39	39	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2025-04-24	2026-04-23

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
40	Artificial Mains	R&S	ENV216	101288	2025-04-24	2026-04-23
41	Power Analyzer Test System	Voltech	PM6000	20000670053	2025-04-24	2026-04-23
42	ESD Simulator	SCHLODER	SESD 230	604035	2025-04-24	2026-04-23
43	RF POWER AMPLIFIER	OPHIR	5225R	1052	2025-04-24	2026-04-23
44	RF POWER AMPLIFIER	OPHIR	5273F	1019	2025-04-24	2026-04-23
45	Stacked Broadband Log Periodic	SCHWARZBECK	STLP 9128	9128ES-145	2025-04-24	2026-04-23
46	Antenna Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-482	2025-04-24	2026-04-23
47	Electric field probe	Narda S TS /PMM	EP601	611WX80208	2025-04-24	2026-04-23
48	Power Meter	Agilent	E4419B	MY45104493	2025-04-24	2026-04-23
49	Power Sensor	Agilent	E9301H	MY41495234	2025-04-24	2026-04-23
50	Power Sensor	Agilent	E4412A	MY41500229	2025-04-24	2026-04-23
51	Sound Level meter	BK Precision	735	73500873100	2025-04-24	2026-04-23
52	Audio Analyzer	R&S	UPV	1146.2003K0	2025-04-24	2026-04-23
53	Mouse Simulation	Bruel & Kjaer	4227	A0304216	2025-04-24	2026-04-23
54	Ear Simulation and supply	Bruel & Kjaer	2669.4182.5935	A0305284	2025-04-24	2026-04-23
55	Acoustical Calibrators	Bruel & Kjaer	4231	A0304215	2025-04-24	2026-04-23
56	Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2025-04-24	2026-04-23
57	Simulator	FRANKONIA	CIT-10	A126A1195	2025-04-24	2026-04-23
58	CDN	FRANKONIA	CDN-M2	5100100100	2025-04-24	2026-04-23
59	CDN	FRANKONIA	CDN-M3	0900-11	2025-04-24	2026-04-23
60	Attenuator	FRANKONIA	ATT6	0010222A	2025-04-24	2026-04-23
61	Infuse tongs	EM TEST	EM-Clamp	0513A031201	2025-04-24	2026-04-23
62	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2025-04-24	2026-04-23

1.9. Measurement Uncertainty

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber	3.54dB	Polarize: V
(30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	2.08dB	Polarize: H
(1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	0.01ppm	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

1.10. Description Of Test Modes

There was 3 test Modes. TM1 to TM3 were shown below:

TM1: Operate in normal work mode;

TM2: Power on mode;

TM3: Idle mode

***Note:

1. All test modes were tested, but we only recorded the worst case in this report.

2. SUMMARY OF TEST RESULTS

Rule	Description of Test Items	Result
§11	EN 61000-6-4 Conducted Emission (AC mains input/output port)	Compliant
§11	EN 61000-6-4 Conducted Emission (DC power input/output port)	N/A*
§11	EN 61000-6-4 Conducted Emission (Wired network port)	N/A*
§11	EN 61000-6-4 Radiated Emission (Enclosure of ancillary equipment)	Compliant
§	Harmonic current emissions (AC mains input port)	Compliant
§	Voltage fluctuations and flicker (AC mains input port)	Compliant
§8	EN 61000-6-2 Electrostatic discharge (Enclosure port) (EN 61000-4-2)	Compliant
§ 8	EN 61000-6-2 RF electromagnetic field (80MHz to 1000MHz) (Enclosure port) (EN 61000-4-3)	Compliant
§ 8	EN 61000-6-2 Fast transients common mode (signal, wired network and control ports, DC and AC power ports) (EN 61000-4-4)	Compliant
§ 8	EN 61000-6-2 Surges, line to line and line to ground (AC mains power input ports, wired network ports) (EN 61000-4-5)	Compliant
§ 8	EN 61000-6-2 RF common mode 0.15MHz to 80MHz (signal, wired network and control ports, DC and AC power ports) (EN 61000-4-6)	Compliant
§8	EN 61000-6-2 Voltage dips and interruptions (AC mains power input ports) (EN 61000-4-11)	Compliant

3. LINE CONDUCTED EMISSION

3.1. Conducted Emission Limit

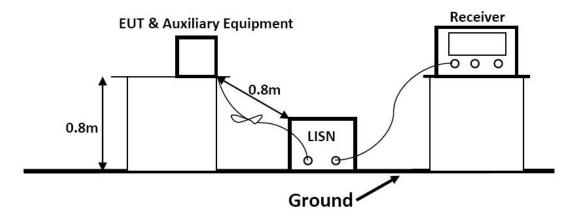
Relevant Standard(s): EN IEC 61000-6-2:2019 /CISPR 11:2009

Limits for Line Conducted Emission			
Frequency Limit (dB _μ V)			
(MHz)	Quasi-peak Level	Average Level	
0.15 ~ 0.50	79 *	66 *	
0.50 ~ 30.00	73.0	60	

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.2. Test Configuration



The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The EUT received charging power from the Adapter which received power through a LISN supplying power of AC 380V/50Hz.

3.3. EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	150KHz ~ 30MHz
(IF)RBW	9kHz

All data was recorded in the Quasi-peak and average detection mode.

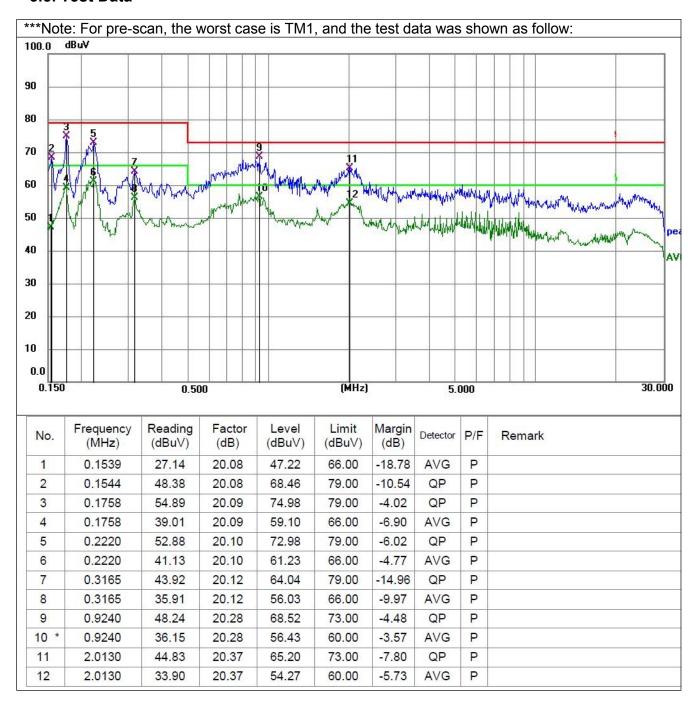
3.4. Test Procedure

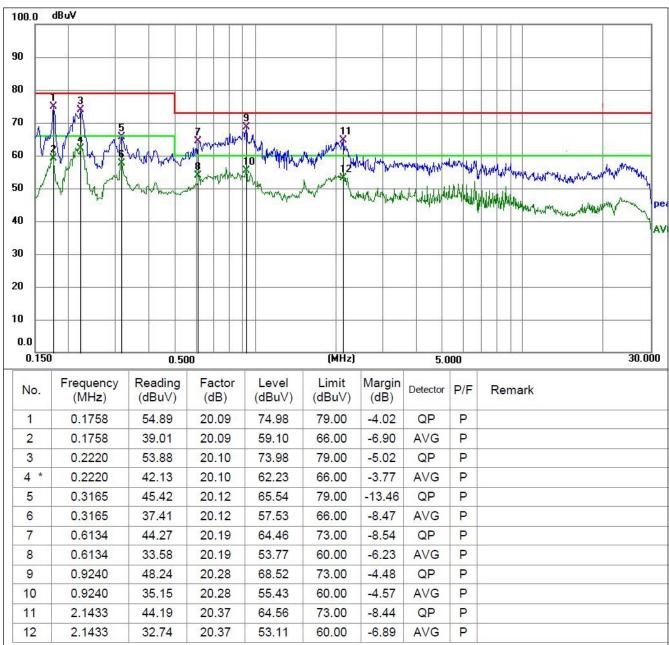
Power on the EUT, the EUT begins to work. Make sure the EUT operates normally during the test.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

3.5. Test Data





Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

4. RADIATED DISTURBANCE

4.1. Radiated Emission Limit

Relevant Standard(s): EN IEC 61000-6-2:2019 /CISPR 11:2009

Limits for Radiated Disturbance Below 1GHz				
Frequency Distance Field Strengths Limit				
(MHz)	(Meters)	(dBµV/m)		
30 ~ 230	3	50		
230 ~ 1000	3	57		

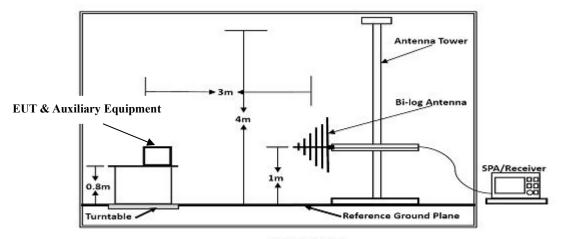
^{***}Note:

⁽²⁾ Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

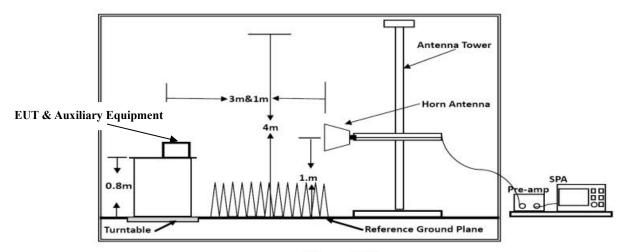
Limits for Radiated Disturbance Above 1GHz						
Frequency	Distance	Peak Limit	Average Limit			
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)			
1000 ~ 3000	3	76	56			
3000 ~ 6000 3 80 60						
***Note: The lower limit	***Note: The lower limit applies at the transition frequency.					

⁽¹⁾ The smaller limit shall apply at the combination point between two frequency bands.

4.2. Test Configuration



Below 1GHz



Above 1GHz

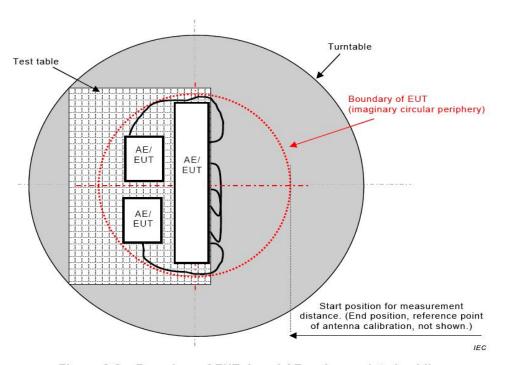


Figure C.2 – Boundary of EUT, Local AE and associated cabling

4.3. Test Procedure

1) Sequence of testing 30 MHz to 1 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre-measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 4 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre-measurement with marked maximum final measurements and the limit will be stored.

2) Sequence of testing 1 GHz to 6 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre-measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 4 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of pre-measurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

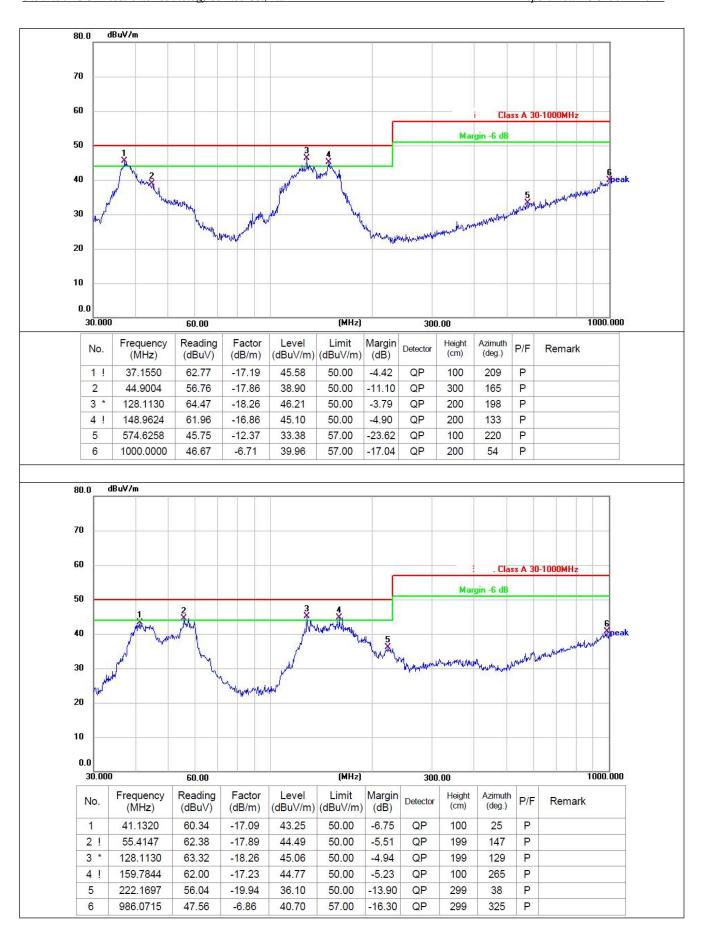
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre-measurement with marked maximum final measurements and the limit will be stored.

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	30MHz~1000MHz / RBW 100kHz for QP	

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	6000 MHz	
RBW / VBW	1MHz / 1MHz for Peak, 1 MHz / 10Hz for	
RDVV / VDVV	Average	

4.4. Test Data

The worst test mode of the EUT was TM1, and its test data was showed as the follow:



Test Mode: TM1 (Above 1GHz)				Test Distance: 3m			
Test Voltage: AC 380V/50Hz			Test Results: Passed				
Detector Fu	Detector Function: Peak + AV						
Polarizatio n	Frequenc y (MHz)	Emission Level (dBµV/m)		Limit (dBµV/m)		Margin (dB)	
	1350.63	50.09	37.90	76.00	56.00	-19.91	-12.10
	1884.93	47.85	36.33	76.00	56.00	-22.15	-13.67
Horizontal	2188.83	49.02	31.69	76.00	56.00	-24.98	-22.31
ПОПДОПІАІ	3290.43	56.29	31.63	80.00	60.00	-17.71	-22.37
	4332.04	51.33	34.55	80.00	60.00	-22.67	-19.45
	5886.54	53.77	36.46	80.00	60.00	-20.23	-17.54
	1350.31	50.01	36.54	76.00	56.00	-19.99	-13.46
	1884.74	47.84	36.12	76.00	56.00	-22.16	-13.88
Vertical	2191.17	48.03	30.57	76.00	56.00	-25.97	-23.43
vertical	3294.60	57.43	33.09	80.00	60.00	-16.57	-20.91
	4328.72	50.94	35.04	80.00	60.00	-23.06	-18.96
	5884.18	55.10	36.79	80.00	60.00	-18.90	-17.21

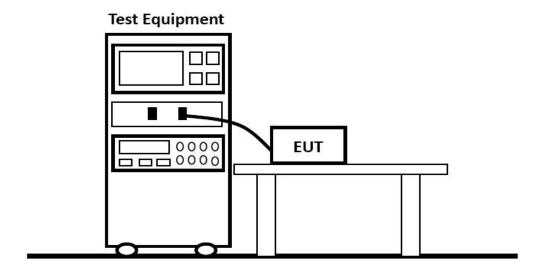
^{1.} Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.

^{2.} Measurements above show only up to 6 maximum emissions noted.

^{3.} Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5. HARMONIC CURRENT EMISSIONS

5.1. Test Configuration



5.2. Test Standard

According to EN IEC 61000-6-2:2019 & EN 61000-3-2: 2014

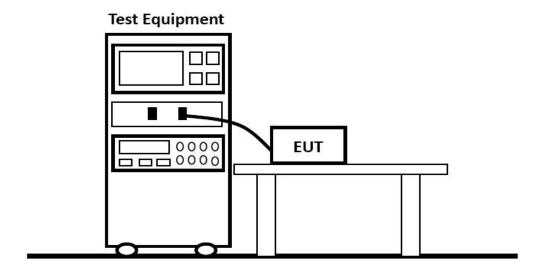
5.3. Test Data

Test Model	SL-2013AS	Test Engineer	Jason Li
Environmental Conditions	24.6℃, 52.6% RH	Test Voltage	AC 380V/50Hz

Because power of EUT less than 75W, According standard EN 61000-3-2, Harmonic current unnecessary to test.

6. VOLTAGE FLUCTUATION AND FLICKER

6.1. Test Configuration



6.2. Test Standard

According to EN IEC 61000-6-2:2019 & EN 61000-3-3: 2013

6.3. Test Data

PASS.

7. GENERAL PERFORMANCE CRITERIA FOR IMMUNITY TEST

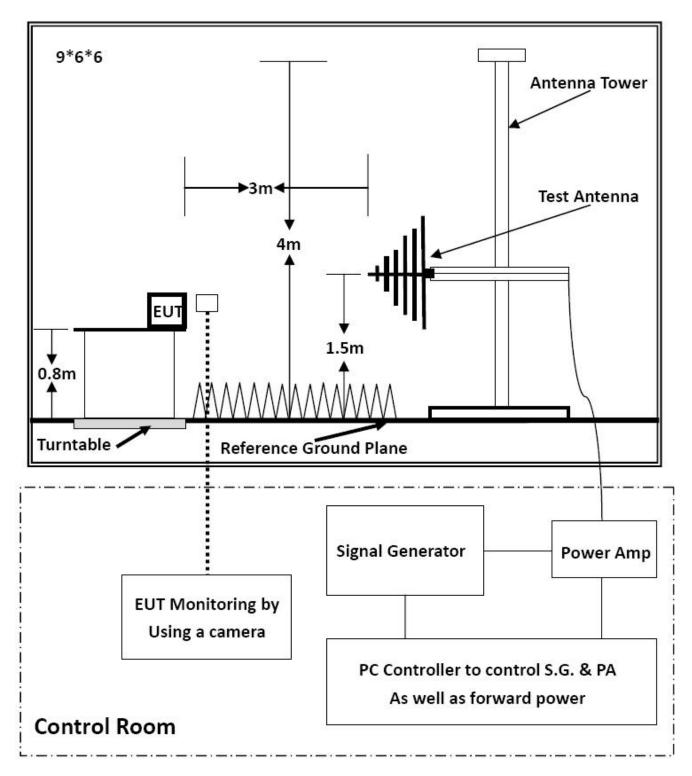
Performance criteria for EN IEC 61000-6-2

A functional description and a definition of specific performance criteria, during or as a consequence of immunity testing of equipment under test (EUT), shall be provided by the manufacturer and noted in the test report. They shall be consistent with one of the following general criteria for each test as specified in Table 1 to Table 4:

- a) Performance criterion A: The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
- b) Performance criterion B: The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
- c) Performance criterion C: Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.
- If, as a result of the application of the tests defined in this standard, the EUT becomes dangerous or unsafe, it shall be deemed to have failed the test.

8. RF ELECTROMAGNETIC FIELD (80 MHz - 1000 MHz)

8.1. Test Configuration



8.2. Test Standard

EN 61000-6-2, EN61000-4-3

Test level 3 at 10V/m.

8.3. Severity Level

Level	Field Strength (V/m)		
1	1		
2	3		
3	10		
X	Special		
Performance Criterion: A			

8.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

Condition of Test	Remark	
Fielded Strength	10 V/m (Severity Level 2)	
Radiated Signal	Unmodulated	
Scanning Frequency	80-1000MHz	
Dwell time of radiated	0.0015 decade/s	
Waiting Time	3 Sec.	

8.5. Test Result

Test Model	SL-2013AS	Test Engineer	Jason Li
Environmental Conditions	23.5℃, 53.2% RH	Test Voltage	AC 380V/50Hz

2.4G TM1 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusio n
Operating Mode	Vertical	80-1000	10	CT, CR	Front, Right, Left, Back	Pass
Operating Mode	Horizont al	80-1000	10	CT, CR	Front, Right, Left, Back	Pass
Idle	Vertical	80-1000	10	See Note	Front, Right, Left, Back	Pass
iule	Horizont al	80-1000	10	See Note	Front, Right, Left, Back	Pass

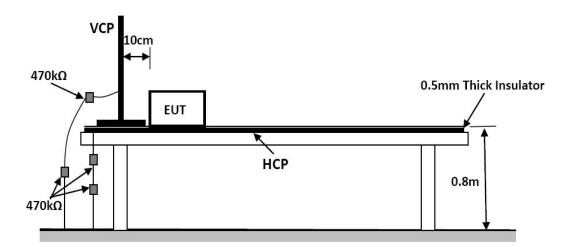
TM2-TM3 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusio n
Operating Mode	Vertical	80-1000	10	See Note	Front, Right, Left, Back	Pass
Operating Mode	Horizont al	80-1000	10	See Note	Front, Right, Left, Back	Pass
ldle	Vertical	80-1000	10	See Note	Front, Right, Left, Back	Pass
iule	Horizont al	80-1000	10	See Note	Front, Right, Left, Back	Pass

9. ELECTROSTATIC DISCHARGE

Please refer to ETSI EN 301 489-1 and EN 61000-4-2.

9.1. Test Configuration



EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.5 by 1.0-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

9.2. Test Procedure

EN IEC 61000-6-2:2019 / EN 61000-4-2: 2009 Test level 3 for Air Discharge at ±8 kV

Test level 2 for Contact Discharge at ±4 kV

9.2.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

9.2.2. Contact Discharge

All the procedure shall be same as Section 9.2.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.2.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

9.2.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

9.3. Test Data

PASS.

Electrostatic Discharge Test Results						
Standard	☐ IEC 61000-4-2 ☐ EN 61000-4-2					
Applicant	ZHAOQING SHIRFERLY MACHINERY CO., LTD					
EUT	AUTOMATIC STRIP CUTTER Temperature 23.5°C					
M/N	SL-2013AS	Humidity	53.1%			
Criterion	B Pressure 1021mbar					
Test Mode	TM1-TM3 Test Date					
Test Engineer	Jason Li					

TEST RESULT OF TM1

Test Voltage	Coupling	Observation	Result (Pass/Fail)
±2KV, ±4kV	Contact Discharge	CT, CR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	CT, CR	Pass
±2KV, ±4kV	Indirect Discharge HCP	CT, CR	Pass
±2KV, ±4kV	Indirect Discharge VCP	CT, CR	Pass

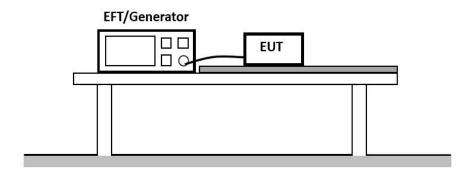
TEST RESULT OF TM2-TM3

1201 12021 01 11112 11110					
Test Voltage	Coupling	Result (Pass/Fail)			
±2KV, ±4kV	Contact Discharge	Pass			
±2KV, ±4kV, ±8kV	Air Discharge	Pass			
±2KV, ±4kV	Indirect Discharge HCP	Pass			
±2KV, ±4kV	Indirect Discharge VCP	Pass			

Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

10. ELECTRICAL FAST TRANSIENT IMMUNITY

10.1. Test Configuration



10.2. Test Standard

EN IEC 61000-6-2:2019/ EN61000-4-4: 2012

Test level 2 kV

TOST TO VOT Z IN V					
Test Level					
Open C	Circuit Output Test Voltage ±1	0%			
Level On Power Supply Lines On I/O (Input/Output) Signal data and control lines					
1	0.5 kV	0.25 kV			
2	1 kV	0.5 kV			
3	2 kV	1 kV			
4	4 kV	2 kV			
X Special Special					
Performance Criterion: B					

10.3. Test Procedure

The EUT is put on the table, which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

10.3.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device, which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.

- 10.3.2. For signal lines and control lines ports: No I/O ports. It's unnecessary to test.
- 10.3.3. For DC output line ports: It's unnecessary to test.

10.4. Test Data

PASS.

Please refer to the following page.

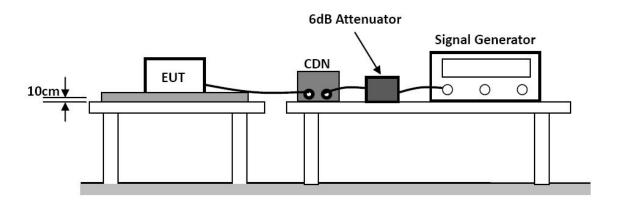
El Results	ectrical	Fast	Tra	ansient/l	Burst	Test
Standard	□ IEC 61000-4	-4 ☑ EN 6	1000-4-	4		
Applicant	ZHAOQING SH	IRFERLY MAC	HINER)	Y CO., LTD		
EUT	AUTOMATIC ST	TRIP CUTTER		Temperature	24.6℃	
M/N	SL-2013AS			Humidity	52.6%	
Test Mode	TM1-TM3			Criterion	В	
Test Engineer	Jason Li					

TEST RESULT OF TM1					
Line	Test Voltage Polarity Observation Result (Pas				
L	2KV	+/-	CT, CR	Pass	
N	2KV	+/-	CT, CR	Pass	
L-N	2KV	+/-	CT, CR	Pass	

TEST RESULT OF TM2-TM3						
Line	Result (Pass/Fail)					
L	2KV	+/-	Pass			
N	2KV	+/-	Pass			
L-N	2KV	+/-	Pass			
	·					

11. RF COMMON MODE

11.1. Test Configuration



11.2. Test Standard

EN IEC 61000-6-2:2019/ EN 61000-4-6: 2014 Test level 3 at 310V (r.m.s.), 0.15 MHz ~ 80 MHz,

Modulation type: AM Modulation depth: 80% Modulation signal: 1 kHz

Woddiation signal. 1 Ki iz					
Test Level					
Level	Voltage Level (r.m.s) (V)				
1	1				
2	3				
3	10				
X	Special				
Performance Criterion: A	•				

11.3. Test Procedure

- 11.3.1. Let the EUT work in test mode and test it.
- 11.3.2. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50mm (where possible).
- 11.3.3. The disturbance signal described below is injected to EUT through CDN.
- 11.3.4. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 11.3.5. The frequency range is swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 11.3.6. The rate of sweep shall not exceed 1.5*10-3 decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 11.3.7. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.4. Test Data

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results						
Standard	□ IEC 61000-4-6 ☑ EN 61000-4	□ IEC 61000-4-6 ☑ EN 61000-4-6				
Applicant	ZHAOQING SHIRFERLY MACHINERY CO., LTD					
EUT	AUTOMATIC STRIP CUTTER Temperature 22.6°C					
M/N	SL-2013AS	Humidity	52.3%			
Test Mode	TM1-TM3 Criterion A					
Test Engineer	Jason Li					

TEST RESULT OF TM1						
Frequency Injected Strength Observation Result (Pass/						
0.15 ~ 80	AC Mains	3V	CT, CR	Pass		

TEST RESULT OF TM2-TM3						
Frequency Injected Strength Range (MHz) Position (Unmodulated) Result (Pass/Fail)						
0.15 ~ 80	AC Mains	10V	Pass			

Remark:

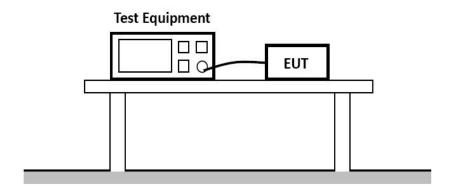
Modulation Signal:1kHz 80% AM
 Measurement Equipment:

Simulator: CIT-10 (FRANKONIA)

CDN : ☑CDN-M2 (FRANKONIA) □CDN-M3 (FRANKONIA)

12. SURGES, LINE TO LINE AND LINE TO GROUND

12.1. Test Configuration



12.2. Test Standard

EN IEC 61000-6-2:2019 / EN 61000-4-5: 2014

L-N: Test level 2 at 1 kV

L-PE. N-PE Test Level 3 at 2kV

L-1 L, N-1 L 163t Level 3 at 2kV						
Test Level						
Open (Circuit Output Test Voltage ±1	0%				
Level On Power Supply Lines On I/O (Input/Output) Signal data and control lines						
1 0.5 kV 0.25 kV						
2	1 kV	0.5 kV				
3	2 kV	1 kV				
4	4 4 kV 2 kV					
X Special Special						
Performance Criterion: B						

12.3. Test Procedure

- 12.3.1. For line to line coupling mode, provide a 0.5 kV 1.2/50us voltage surge (at open-circuit condition).
- 12.3.2. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 12.3.3. Different phase angles are done individually.
- 12.3.4. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.4. Test Data

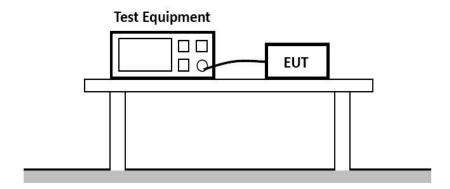
Surge Immunity Test Result					
Standard	Standard □ IEC 61000-4-5 ☑ EN 61000-4-5				
Applicant	ZHAOQING SHIRFERLY MACHINERY CO., LTD				
EUT	AUTOMATIC STRIP CUTTER Temperature 24.6℃				
M/N	SL-2013AS	Humidity	52.6%		
Test Mode	TM1-TM3	Criterion	Α		
Test Engineer	Jason Li				

TEST RESULT OF TM1						
Location	Polarity	l Dhaea Anaia	Number of Pulse	Pulse Voltage (KV)	Observation	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	CT, CR	Pass
L-IN	-	0°, 90°, 180°, 270°	5	1.0	CT, CR	Pass

TEST RESULT OF TM2-TM3					
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	Pass
	1	0°, 90°, 180°, 270°	5	1.0	Pass

13. VOLTAGE DIPS/INTERRUPTIONS IMMUNITY TEST

13.1. Test Configuration



13.2. Test Standard

EN IEC 61000-6-2:2019/ EN 61000-4-11: 2004 Test levels and Performance Criterion

	rest levels and i enformance officion			
	Test Level			
Voltage Reduction		Voltage Dips	Duration	
	[™] %U _T	%U _T	(in Period)	
	100	0	0.5	
	100	0	1	
	30	70	5	
	Voltage Reduction	Voltage Dips	Duration	
	[™] %U _T	%U _T	(in Period)	
	100	0	250	
	Performance Criterion: B&C			

13.3. Test Procedure

- 13.3.1. The interruption is introduced at selected phase angles with specified duration.
- 13.3.2. Record any degradation of performance.

13.4. Test Data

Voltage Dips And Interruptions Test Results				
Standard	□ IEC 61000-4-11 ☑ EN 61000-4-11			
Applicant	ZHAOQING SHIRFERLY MACHINERY CO., LTD			
EUT	AUTOMATIC STRIP CUTTER	Temperature	24.6℃	
M/N	SL-2013AS	Humidity	52.6%	
Test Mode	TM1-TM3	Criterion	Α	
Test Engineer	Jason Li			

TEST RESULT OF TM1				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Observation	Result (Pass/Fail)
0	100	0.5P	CT, CR	Pass
0	100	1P	CT, CR	Pass
40	100	0.5P	CT, CR	Pass
40	100	1P	CT, CR	Pass
70	30	25P	CT, CR	Pass
0	100	250P	CT, CR	Pass

TEST RESULT OF TM2-TM3				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Result (Pass/Fail)	
0	100	0.5P	Pass	
0	100	1P	Pass	
40	100	0.5P	Pass	
40	100	1P	Pass	
70	30	25P	Pass	
0	100	250P	Pass	

14. Setup Photographs



Fig.1



Fig.2



Fig.3



Fig.4

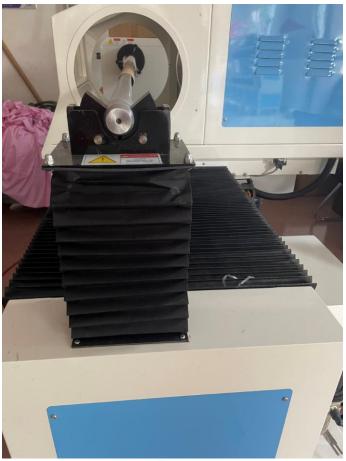


Fig.5





Fig.7



Fig.8



Fig.9



Fig.10



Fig.11



Fig.12



Fig.13

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