



EMC REPORT

Product Type: Circulation Pump

Model No.: See Appendix I

Trademark: **DUCA**[®]

Applicant: Worimex İklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Manufacturer: Worimex İklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Factory: Worimex İklimlendirme Sistemleri Sanayi ve Ticaret A.s.
Zafer Mahallesi 146.sokak No: 13A Esenyurt/istanbul

Report Number: OViS202405008E-R1

Testing Standard: EN IEC 55014-1:2021, EN IEC 55014-2:2021,
EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,
BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021,
BS EN IEC 61000-3-2:2019+A1:2021,
BS EN 61000-3-3:2013+A1:2019+A2:2021

Date of Test: Apr. 26,2024 to May 16,2024

Date of Report: May 17,2024

Test Result: Positive Negative





Revision Record			
Version	Description	Date	Remark
Ver.0.0	Original	May 17,2024	OViS202405008E
Ver.1.0	1.The manufacturer and factory information was modified. 2.The trademark was added.	Jun. 11,2024	OViS202405008E-R1

Authorized for issue by:

Prepared by

:

Caroline Chen

(Caroline Chen)

Reviewer by

:

Sam Jin

(Sam Jin)

Approved by

:

*Lily LI **

(Lily LI)



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Harmonics On Ac Mains	EN IEC 61000-3-2:2019+A1:2021	EN IEC 61000-3-2	Class A	Pass
Voltage Changes, Voltage Fluctuations And Flicker On Ac Mains	EN 61000-3-3:2013 +A1:2019+A2:2021	EN 61000-3-3:2013 + A1:2019+A2:2021	Clause 5	Pass
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN IEC 55014-1:2021	CISPR 16-2-1	Table 5	Pass
Disturbance Power	EN IEC 55014-1:2021	CISPR 16-2-2	Table 7 & 8	Pass
Radiated Emissions (30MHz-1GHz)	EN IEC 61000-6-2:2019	CISPR 16-2-3	N/A	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 55014-2:2021	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port	EN IEC 55014-2:2021	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN IEC 55014-2:2021	EN 61000-4-5:2014+ A1:2017	1.2/50us Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Voltage Dips and Interruptions	EN IEC 55014-2:2021	EN 61000-4-11:2004 +A1:2017	For 50Hz: 0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per For 60Hz: 0 % UT for 0.5per 40 % UT for 12per 70 % UT for 30per UT is Supply Voltage	Pass
Conducted Immunity at Power Port (150kHz-230MHz)	EN IEC 55014-2:2021	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass

N/A: Not applicable

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model COSMO-C 32-12-180 was tested since their differences were the model number and appearance.

Remark:

For detail,see relrbant information on General product information
BS standards are identical with EN standards





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APPENDIX I (Model Number) (1 page)

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4 General Information

4.1 Details of E.U.T.

Power supply: 180W

Test voltage: 220-240V,50/60Hz

4.2 Description of Support Units

The EUT has been tested as an independent unit

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.6dB (9kHz to 150kHz)
		2.4dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	1.8 dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	4.2 dB (150kHz to 30MHz)
4	Radiated Power	2.3dB
5	Radiated Emission	4.5dB (30MHz-1GHz)
		5.1dB (1GHz-3.6GHz)
6	Radiated Disturbance (disturbance current in a LLAS)	2.4dB (9kHz to 30MHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.4 Test Location

All tests were performed at:
OViS Testing Technology (Zhejiang) Co., Ltd.
Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China
Tel: 400-8008-959

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

4.7 Monitoring of EUT for All Immunity Test

Visual: Monitor the work status



5 Equipment List

Harmonics on AC Mains, Voltage changes, voltage fluctuations and flicker on AC mains

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Harmonics and Flicker Analyzer	APS	ECT32-3450F-M18012	OViS-YQ124	2023-10-08	2024-10-07

Conducted Emissions at Mains Terminals (150kHz-30MHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
EMI test receiver	Rohde&Schwarz	ESR3	OViS-YQ125	2023-10-08	2024-10-07
Artificial mains network	AFJ	LT32C	OViS-YQ126	2023-10-08	2024-10-07
Shielding Room	Everfine	SR-500	OViS-YQ127	2023-10-08	2024-10-07

Radiated Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
EMI test receiver	Rohde&Schwarz	ESR3	OViS-YQ125	2023-10-08	2024-10-07
CONTROLLER	Noyetec	XTJC	OViS-YQ128	2023-10-08	2024-10-07
ANTENNA MAST	SCHWARZBECK	VULB9163	OViS-YQ129	2023-10-08	2024-10-07
Semi/Fully Anechoic	Noyetec	SR-500	OViS-YQ130	2023-10-08	2024-10-07
Pre-Amplifier	Noyetec	NYP A0930	OViS-YQ131	2023-10-08	2024-10-07

Electrostatic Discharge Test Setup

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
ESD generator	Everfine	EMS61000-2A	OViS-YQ132	2023-10-08	2024-10-07

Electrical Fast Transients/Burst at Power Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Burst generator	Everfine	EMS61000-4A	OViS-YQ133	2023-10-08	2024-10-07
Coupling clamp	Everfine	EFTC-2	OViS-YQ134	2023-10-08	2024-10-07

Surge at Power Port

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Lightning surge generator	Everfine	EMS61000-5A	OViS-YQ135	2023-10-08	2024-10-07

Conducted Immunity at Power Port (150kHz-80MHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
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Signal generator	Rigol	DSG821	OVIS-YQ136	2023-10-08	2024-10-07
Power Amplifier	Noyetec	NYP A0123-100	OVIS-YQ137	2023-10-08	2024-10-07
6dB Attenuator	Noyetec	ATT01	OVIS-YQ138	2023-10-08	2024-10-07
Coupling and Decoupling Network (CDN)	SCHWARZBECK	CDN M2/M3	OVIS-YQ139	2023-10-08	2024-10-07
RF Generator	Noyetec	SR100-6W	OVIS-YQ140	2023-10-08	2024-10-07
Shielding Room	Everfine	SR-500	OVIS-YQ127	2023-10-08	2024-10-07
Coupling and Decoupling Network (CDN)	SCHWARZBECK	CDN M4PE	OVIS-YQ141	2023-10-08	2024-10-07

Voltage Dips and Interruptions

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Three-phase cycle drop generator	Everfine	EMS61000-11 CA	OVIS-YQ142	2023-10-08	2024-10-07
Coupling and Decoupling Network (CDN)	Everfine	CDNI-3A	OVIS-YQ143	2023-10-08	2024-10-07
Manual step transformer	Everfine	SG-15KVA	OVIS-YQ144	2023-10-08	2024-10-07

Radiated Immunity (80MHz-3.6GHz)

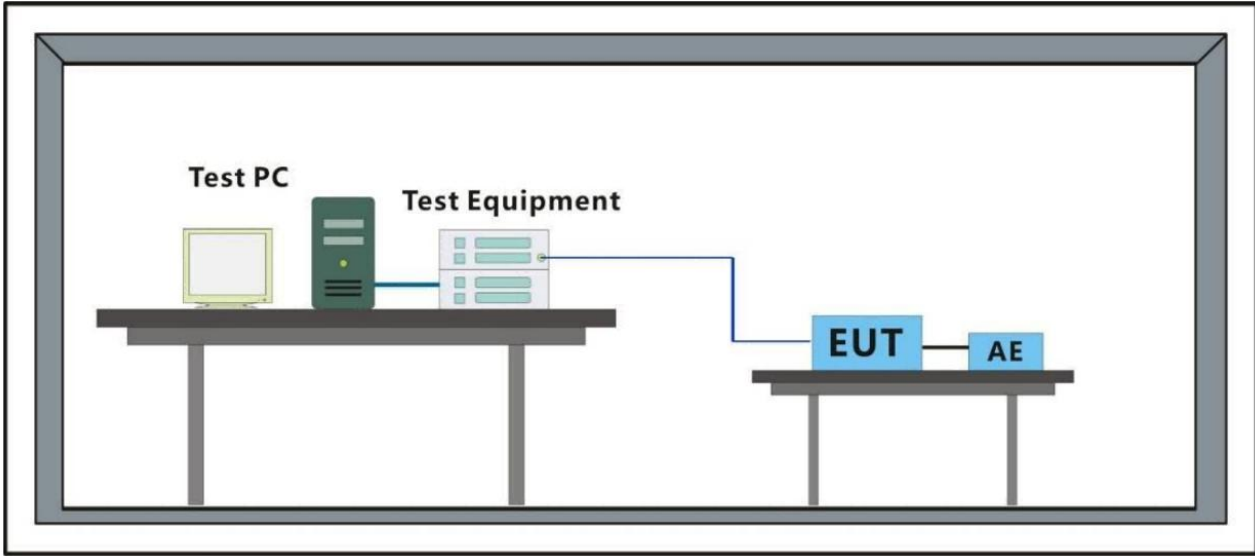
Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Signal generator	Rigol	DSG836	OVIS-YQ145	2023-10-08	2024-10-07
Antenna	SCHWARZBECK	VUSLP9111E	OVIS-YQ146	2023-10-08	2024-10-07
Amplifier	Noyetec	NYP A0810-200	OVIS-YQ147	2023-10-08	2024-10-07
Power meter sensor	PMM	EP601	OVIS-YQ148	2023-10-08	2024-10-07
ElectroMagnetic Field Probe	Ceyear	87230	OVIS-YQ149	2023-10-08	2024-10-07
Shielding Room	Everfine	SR-500	OVIS-YQ127	2023-10-08	2024-10-07

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date Cal	Due Date
Digital pressure meter	YIOU	DPH-103	OVIS-YQ073	2023-10-08	2024-10-07
Temperature&humidity recorder	Dongguan Jinghe Electronic Technology Co., Ltd	MC501	OVIS-YQ095	2023-10-08	2024-10-07
Digital Multimeter	Fluke	319	OVIS-YQ012	2023-10-08	2024-10-07

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6	Emission Test Results
6.1	Harmonics on AC Mains
	Test Requirement: EN IEC 61000-3-2:2019+A1:2021
	Test duration:2.5min
	Harmonic order:2-40 th
	Frequency Range: 0-2 kHz
	Equipment category:Class A
6.1.1	E.U.T. Operation
	Operating Environment:
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar
	Test mode :Normal Working_keep EUT running continual .
6.1.2	Harmonic currents measurement result
6.1.3	Test Setup Diagram
	
6.1.4	Measurement Procedure and Data
	Frequency Range: 100Hz to 2kHz



Average harmonic current results							
Hn	Ieff [A]	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Result
2	0.018	1.08	1.7	0.033	1.620	2.0	Pass
3	0.282	2.3	12.3	0.484	3.450	14.0	Pass
4	0.019	0.43	4.4	0.033	0.645	5.1	Pass
5	0.251	1.14	22.0	0.426	1.710	24.9	Pass
6	0.021	0.3	7.0	0.034	0.450	7.6	Pass
7	0.212	0.77	27.5	0.350	1.155	30.3	Pass
8	0.021	0.23	9.1	0.035	0.345	10.1	Pass
9	0.167	0.4	41.8	0.270	0.600	45.0	Pass
10	0.022	0.184	12.0	0.036	0.276	13.0	Pass
11	0.122	0.33	37.0	0.190	0.495	38.4	Pass
12	0.022	0.153	14.4	0.036	0.230	15.7	Pass
13	0.082	0.21	39.0	0.117	0.315	37.1	Pass
14	0.021	0.131	16.0	0.034	0.197	17.3	Pass
15	0.05	0.15	33.3	0.065	0.225	28.9	Pass
16	0.019	0.115	16.5	0.031	0.173	17.9	Pass
17	0.031	0.132	23.5	0.044	0.198	22.2	Pass
18	0.017	0.102	16.7	0.027	0.153	17.6	Pass
19	0.031	0.118	26.3	0.039	0.178	21.9	Pass
20	0.014	0.092	15.2	0.023	0.138	16.7	Pass
21	0.034	0.107	31.8	0.037	0.161	23.0	Pass
22	0.011	0.084	13.1	0.018	0.125	14.4	Pass
23	0.033	0.098	33.7	0.036	0.147	24.5	Pass
24	0.008	0.077	10.4	0.014	0.115	12.2	Pass
25	0.03	0.090	33.3	0.033	0.135	24.4	Pass
26	0.006	0.071	N/A	0.012	0.107	N/A	Pass
27	0.025	0.083	30.1	0.029	0.125	23.2	Pass
28	0.004	0.066	N/A	0.010	0.099	N/A	Pass
29	0.019	0.078	24.4	0.023	0.116	19.8	Pass
30	0.003	0.061	N/A	0.009	0.092	N/A	Pass
31	0.014	0.073	19.2	0.017	0.109	15.6	Pass
32	0.003	0.058	N/A	0.008	0.086	N/A	Pass
33	0.01	0.068	14.7	0.013	0.102	12.7	Pass
34	0.002	0.054	N/A	0.007	0.081	N/A	Pass
35	0.006	0.064	N/A	0.010	0.096	N/A	Pass
36	0.002	0.051	N/A	0.006	0.077	N/A	Pass
37	0.006	0.061	N/A	0.009	0.091	N/A	Pass
38	0.002	0.048	N/A	0.006	0.073	N/A	Pass
39	0.006	0.058	N/A	0.009	0.087	N/A	Pass
40	0.001	0.046	N/A	0.005	0.069	N/A	Pass

N/A:Harmonic currents less than 0.6% of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

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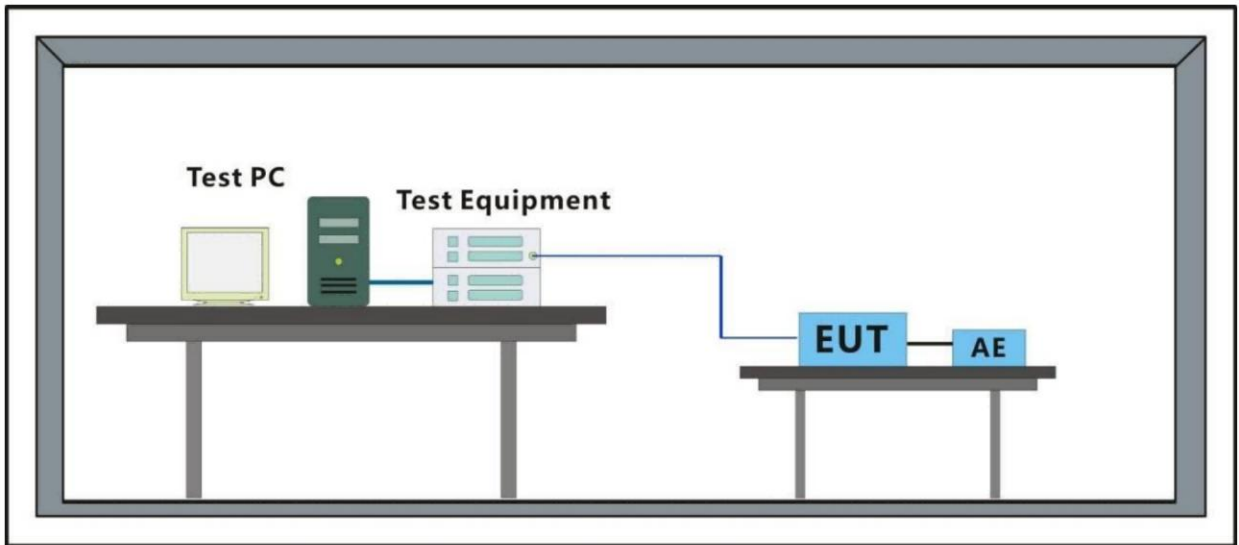




Maximum harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
2	20.05E-3	0.009	0.2	PASS
3	40.35E-3	0.018	0.9	PASS
4	12.36E-3	0.005	0.2	PASS
5	45.27E-3	0.020	0.4	PASS
6	8.04E-3	0.003	0.2	PASS
7	14.23E-3	0.006	0.3	PASS
8	7.10E-3	0.003	0.2	PASS
9	11.03E-3	0.005	0.2	PASS
10	6.10E-3	0.003	0.2	PASS
11	10.39E-3	0.005	0.1	PASS
12	6.38E-3	0.003	0.1	PASS
13	6.62E-3	0.003	0.1	PASS
14	6.36E-3	0.003	0.1	PASS
15	9.68E-3	0.004	0.1	PASS
16	6.05E-3	0.003	0.1	PASS
17	5.86E-3	0.003	0.1	PASS
18	4.54E-3	0.002	0.1	PASS
19	6.41E-3	0.003	0.1	PASS
20	5.68E-3	0.002	0.1	PASS
21	4.38E-3	0.002	0.1	PASS
22	5.34E-3	0.002	0.1	PASS
23	4.81E-3	0.002	0.1	PASS
24	6.93E-3	0.003	0.1	PASS
25	5.21E-3	0.002	0.1	PASS
26	5.32E-3	0.002	0.1	PASS
27	3.93E-3	0.002	0.1	PASS
28	6.82E-3	0.003	0.1	PASS
29	3.68E-3	0.002	0.1	PASS
30	5.06E-3	0.002	0.1	PASS
31	5.06E-3	0.002	0.1	PASS
32	5.34E-3	0.002	0.1	PASS
33	5.32E-3	0.002	0.1	PASS
34	5.93E-3	0.003	0.1	PASS
35	4.98E-3	0.002	0.1	PASS
36	7.16E-3	0.003	0.1	PASS
37	6.15E-3	0.003	0.1	PASS
38	6.19E-3	0.003	0.1	PASS
39	6.74E-3	0.003	0.1	PASS
40	6.17E-3	0.003	0.1	PASS

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6.2	Voltage changes, voltage fluctuations and flicker on AC mains
	Test Requirement:EN 61000-3-3:2013+A1:2019+A2:2021 Test Method:EN 61000-3-3: 2013+ A1:2019+A2:2021
6.2.1	E.U.T. Operation
	Operating Environment: Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar Test mode :Normal Working_keep EUT running continual .
6.2.2	Following are the measurement results obtained via an automatic testing system
6.2.3	Test Setup Diagram



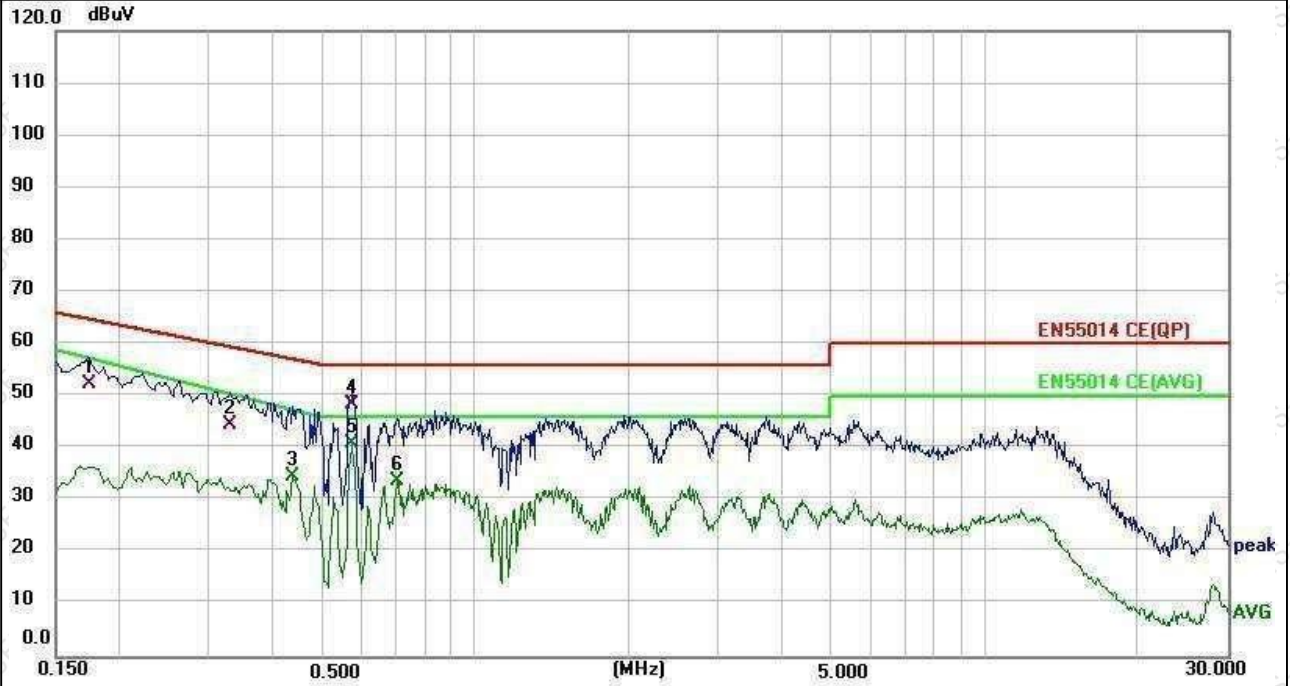
6.2.4 Measurement Procedure and Data
Maximum Flicker results

	EUT values	Limit
Tmax [s]	0.00	0.50
dmax [%]	0.579	4.00
dc [%]	0.376	3.30
P _{st}	0.313	1
P _{lt}	0.337	0.65

6.3	Conducted Emissions at Mains Terminals (150kHz-30MHz)						
	Test Requirement: EN IEC 55014-1:2021						
	Test Method: CISPR 16-2-1						
	Frequency Range: 150kHz to 30MHz						
	<p>Limit:</p> <table border="0"> <tr> <td>0.15M-0.5MHz</td> <td>66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average</td> </tr> <tr> <td>0.5M-5MHz</td> <td>56dB(μV) quasi-peak, 46dB(μV) average</td> </tr> <tr> <td>5M-30MHz</td> <td>60dB(μV) quasi-peak, 50dB(μV) average</td> </tr> </table> <p>Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz</p>	0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average	0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average	5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average						
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average						
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average						
6.3.1	E.U.T. Operation						
	Operating Environment:						
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar						
	Test mode :Normal Working_keep EUT running continual .						
6.3.2	Test Setup Diagram						
	<p>The diagram illustrates the test setup within a shielding room. An EUT (Equipment Under Test) and an AE (Antenna) are placed on a table. A LISN (Line Impedance Stabilization Network) is connected to the EUT. The distance between the EUT and the AE is 10cm. The distance between the EUT and the LISN is 80cm. The distance between the LISN and the Test Receiver is 80cm. The Test Receiver is connected to the LISN. The entire setup is on a Ground Reference Plane.</p>						
6.3.3	Measurement Data						
	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected						



Model: COSMO-C 32-12-180; Line: Live Line

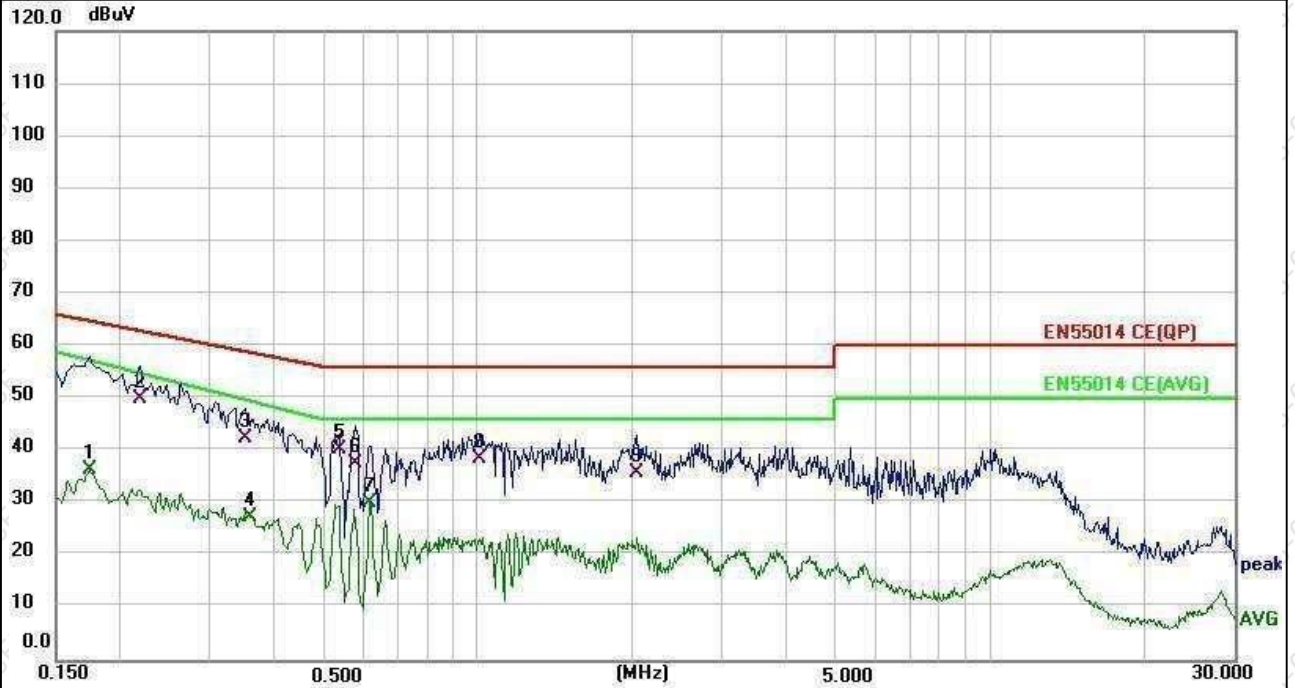


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1740	41.53	10.84	52.37	64.77	-12.40	QP	P
2	0.3300	33.63	10.82	44.45	59.45	-15.00	QP	P
3	0.4380	23.74	10.84	34.58	47.43	-12.85	AVG	P
4	0.5700	37.50	10.82	48.32	56.00	-7.68	QP	P
5 *	0.5700	30.03	10.82	40.85	46.00	-5.15	AVG	P
6	0.7020	22.97	10.85	33.82	46.00	-12.18	AVG	P

Notes: Measure-Ment=Reading Level+Factor

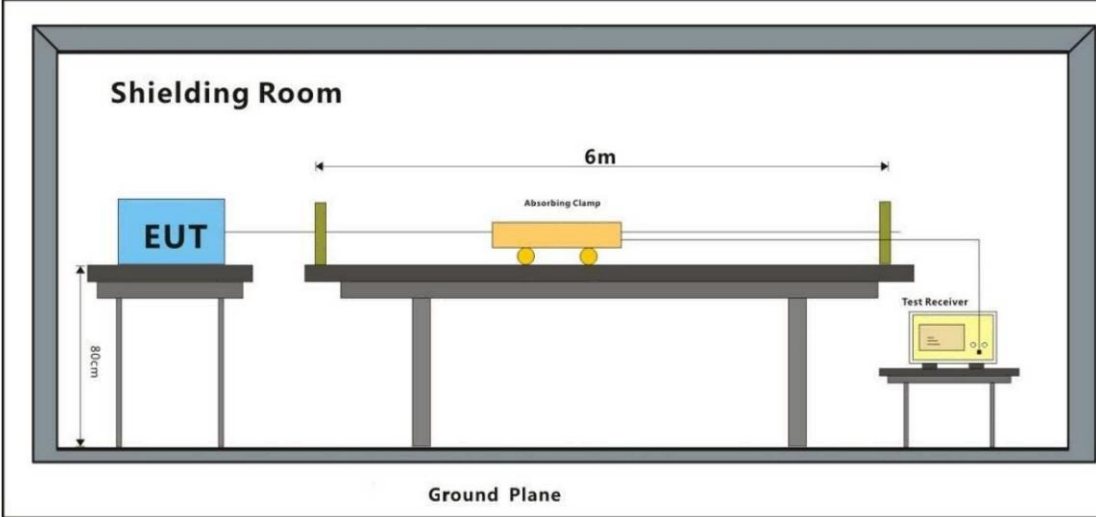


Model: COSMO-C 32-12-180; Line: Neutral Line



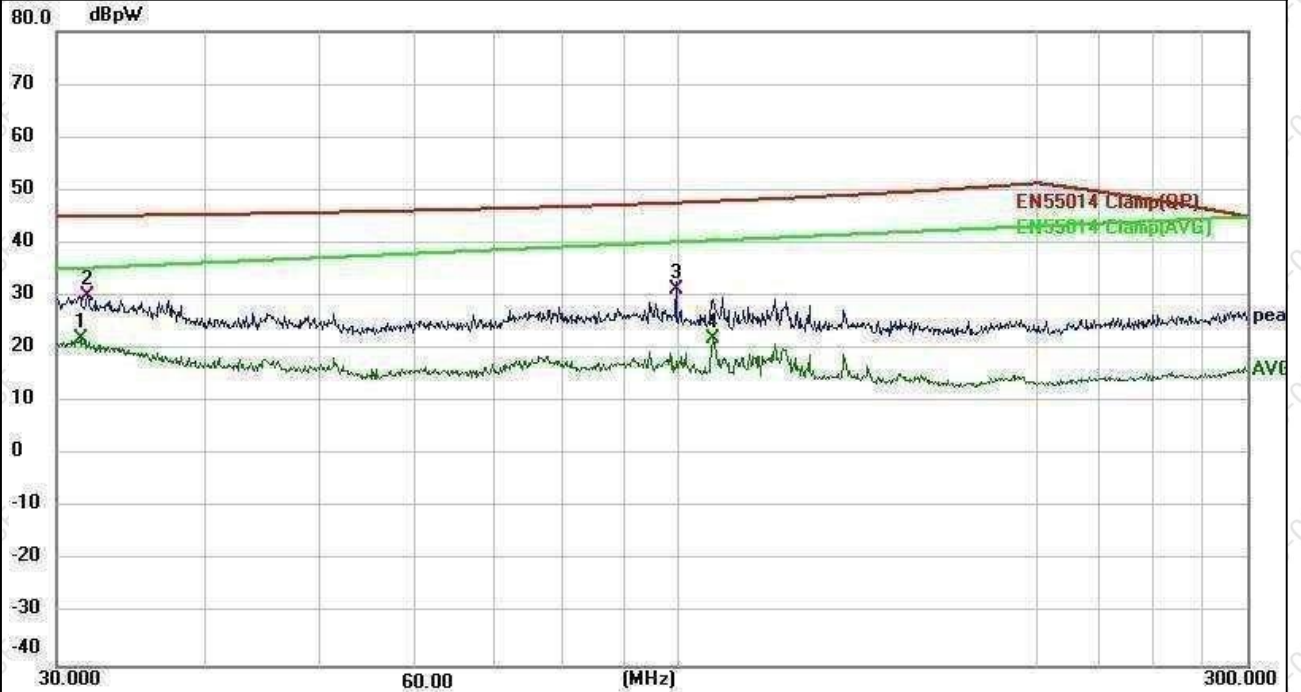
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1740	25.58	10.77	36.35	57.40	-21.05	AVG	P
2	0.2180	39.10	10.72	49.82	62.89	-13.07	QP	P
3	0.3500	31.65	10.73	42.38	58.96	-16.58	QP	P
4	0.3577	16.87	10.72	27.59	49.62	-22.03	AVG	P
5	0.5340	29.47	10.76	40.23	56.00	-15.77	QP	P
6	0.5780	26.77	10.74	37.51	56.00	-18.49	QP	P
7	0.6140	19.38	10.75	30.13	46.00	-15.87	AVG	P
8	1.0060	27.73	10.77	38.50	56.00	-17.50	QP	P
9	2.0460	24.81	10.90	35.71	56.00	-20.29	QP	P

Notes: Measure-Ment=Reading Level+Factor

6.4	Disturbance Power
	Test Requirement: EN IEC 55014-1:2021
	Test Method: CISPR 16-2-2
	Frequency Range: 150kHz to 30MHz
	Limit: 30MHz - 300MHz 45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average 200MHz - 300MHz 0dB(pW)-10dB(pW) quasi-peak (reduction limit) Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz
6.4.1	E.U.T. Operation
	Operating Environment:
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar
	Test mode :Normal Working_keep EUT running continual .
6.4.2	Test Setup Diagram
	 <p>The diagram illustrates the test setup within a Shielding Room. A Ground Plane is at the base. An EUT (Equipment Under Test) is placed on a stand that is 80cm high. An Absorbing Clamp is positioned 6m away from the EUT. A Test Receiver is placed on a stand to the right of the clamp. The entire setup is enclosed within a Shielding Room.</p>
6.4.3	Measurement Data
	Frequency Range: 30MHz to 300MHz An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. The red line show in graphic is the limit in standard used in this section. Measured Level = Read level + Cable Loss + Clamp Factor



Model: COSMO-C 32-12-180



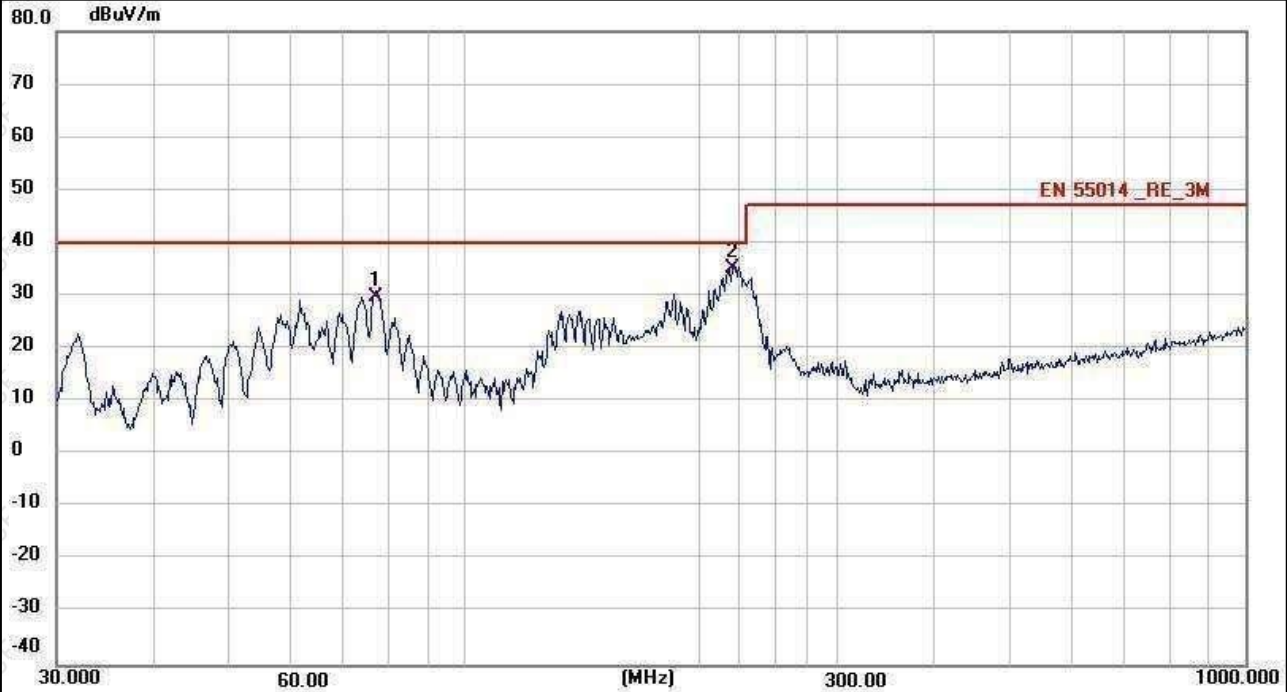
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Level (dBpW)	Limit (dBpW)	Margin (dB)	Detector
1 *	31.4138	12.60	9.27	21.87	35.05	-13.18	AVG
2	31.8508	20.85	9.23	30.08	45.07	-14.99	QP
3	99.3393	25.36	5.99	31.35	47.57	-16.22	QP
4	106.6893	15.85	6.16	22.01	37.84	-15.83	AVG

Notes: Measure-Ment=Reading Level+Factor

<p>6.5</p>	<p>Radiated Emissions (30MHZ-1GHZ)</p>
	<p>Test Requirement: EN IEC 55014-1:2021</p>
	<p>Test Method: CISPR 16-2-3</p>
	<p>Frequency Range: 30MHz to 1GHz</p>
	<p>Limit: 30MHz - 230MHz 50 dB(μV/m) quasi-peak 230MHz - 1GHz 57 dB(μV/m) quasi-peak</p> <p>Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz</p>
<p>6.5.1</p>	<p>E.U.T. Operation</p>
	<p>Operating Environment:</p>
	<p>Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar</p>
	<p>Test mode :Normal Working_keep EUT running continual .</p>
<p>6.5.2</p>	<p>Test Setup Diagram</p>
	<p>The diagram illustrates the test setup within an electromagnetic chamber. On the left, a turntable is positioned at a height of 80 cm, supporting an Auxiliary Equipment (AE) and the Equipment Under Test (EUT). To the right, an antenna tower is mounted on a ground reference plane, with an antenna at a height of 1m to 4m. The distance between the turntable and the antenna tower is specified as 3m or 10m. Below the chamber, a test receiver system is shown on a table, consisting of a Test Receiver, a Pre-Amplifier, and a Controller, all connected to the antenna tower.</p>
<p>6.5.3</p>	<p>Measurement Data</p>
	<p>An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.</p>



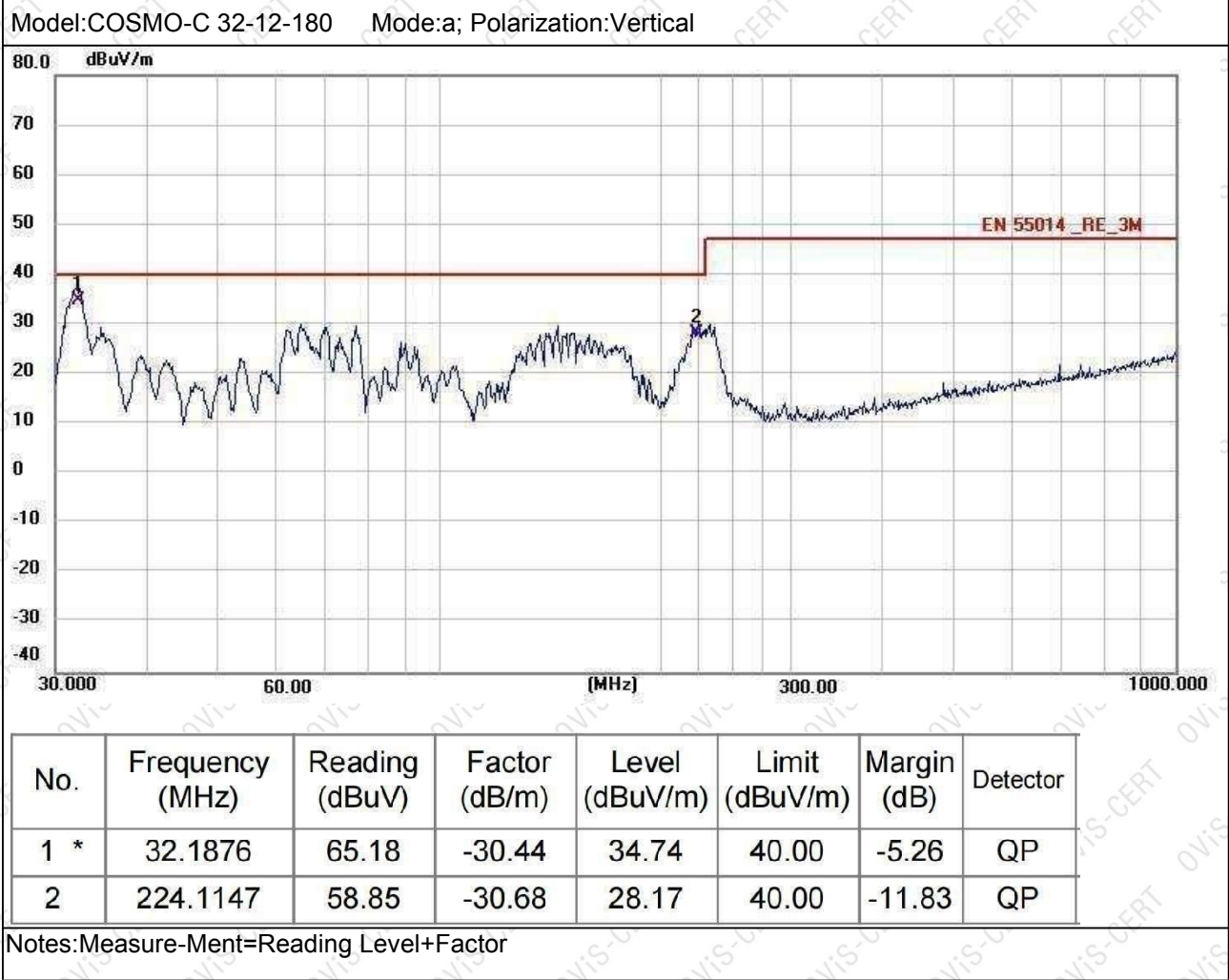
Model: COSMO-C 32-12-180 Mode: a; Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	77.3152	64.51	-34.86	29.65	40.00	-10.35	QP
2 *	220.9575	65.84	-30.77	35.07	40.00	-4.93	QP

Notes: Measure-Ment=Reading Level+Factor

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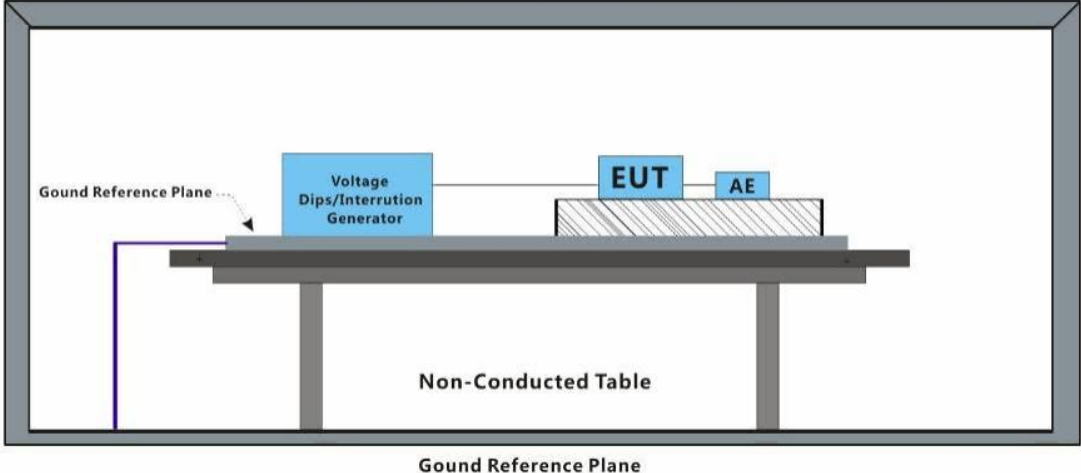
7	Immunity Test Results
7.1 Performance Criteria Description in EN IEC 55014-2:2021	
Criterion A	The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
Criterion B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed to persist after the test. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
Criterion C	Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



<p>7.2</p>	<p>Electrostatic Discharge</p>																																			
	<p>Test Requirement: EN IEC 55014-2:2021</p>																																			
	<p>Test Method: EN 61000-4-2:2009</p>																																			
	<p>Performance Criterion: B</p>																																			
	<p>Discharge Impedance: 330Ω/150pF</p>																																			
	<p>Number of Discharge: Minimum 10 times at each test point</p>																																			
	<p>Discharge Mode: Single Discharge</p>																																			
	<p>Discharge Period: 1 second minimum</p>																																			
<p>7.2.1</p>	<p>E.U.T. Operation</p>																																			
	<p>Operating Environment:</p>																																			
	<p>Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar</p>																																			
	<p>Test mode :Normal Working_keep EUT running continual .</p>																																			
<p>7.2.2</p>	<p>Test Setup Diagram</p>																																			
<p>7.2.3</p>	<p>Test Results</p>																																			
	<p>Observations: Test Point: 1. All insulated enclosure and seams. 2. All accessible metal parts of the enclosure. 3. All side</p>																																			
	<table border="1"> <thead> <tr> <th>Discharge type</th> <th>Level (kV)</th> <th>Polarity</th> <th>Test Point</th> <th>Result / Observations</th> </tr> </thead> <tbody> <tr> <td>Air Discharge</td> <td>8</td> <td>+</td> <td>1</td> <td>A</td> </tr> <tr> <td>Air Discharge</td> <td>8</td> <td>-</td> <td>1</td> <td>A</td> </tr> <tr> <td>Horizontal Coupling</td> <td>4</td> <td>+</td> <td>3</td> <td>A</td> </tr> <tr> <td>Horizontal Coupling</td> <td>4</td> <td>-</td> <td>3</td> <td>A</td> </tr> <tr> <td>Vertical Coupling</td> <td>4</td> <td>+</td> <td>4</td> <td>A</td> </tr> <tr> <td>Vertical Coupling</td> <td>4</td> <td>-</td> <td>4</td> <td>A</td> </tr> </tbody> </table>	Discharge type	Level (kV)	Polarity	Test Point	Result / Observations	Air Discharge	8	+	1	A	Air Discharge	8	-	1	A	Horizontal Coupling	4	+	3	A	Horizontal Coupling	4	-	3	A	Vertical Coupling	4	+	4	A	Vertical Coupling	4	-	4	A
Discharge type	Level (kV)	Polarity	Test Point	Result / Observations																																
Air Discharge	8	+	1	A																																
Air Discharge	8	-	1	A																																
Horizontal Coupling	4	+	3	A																																
Horizontal Coupling	4	-	3	A																																
Vertical Coupling	4	+	4	A																																
Vertical Coupling	4	-	4	A																																
	<p>Results: A: No degradation in the performance of the EUT was observed.</p>																																			

7.3	ELECTRICAL FAST TRANSIENTS/BURST AT POWER PORT				
	Test Requirement: EN IEC 55014-2:2021				
	Test Method: EN 61000-4-4:2012				
	Performance Criterion: B				
	Repetition Frequency: 5kHz				
	Burst Period: 300ms				
	Test Duration: 2 minute per level & polarity				
7.3.1	E.U.T. Operation				
	Operating Environment:				
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar				
	Test mode :Normal Working_keep EUT running continual .				
7.3.2	Test Setup Diagram				
	<p>The diagram illustrates the test setup for Electrical Fast Transients/Burst at the power port. It shows a 'Non-Conducted Table' with a 'Ground Reference Plane' above it. On the table, there is an 'EUT/Burst Generator' connected to a 'Capacitive Clamp', which is connected to the 'EUT'. The 'EUT' is supported by an 'Insulating Support (0.1m)'. A 'Cable ≥ 3m' connects the 'EUT' to an 'AE' (Antenna) on a separate 'Non-Conducted Table'. Another 'AE' (AE2) is also shown on a 'Non-Conducted Table'.</p>				
7.3.3	Test Results				
	Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
	AC power port	1	+	CDN	A
	AC power port	1	-	CDN	A
	Results: A: No degradation in the performance of the EUT was observed.				


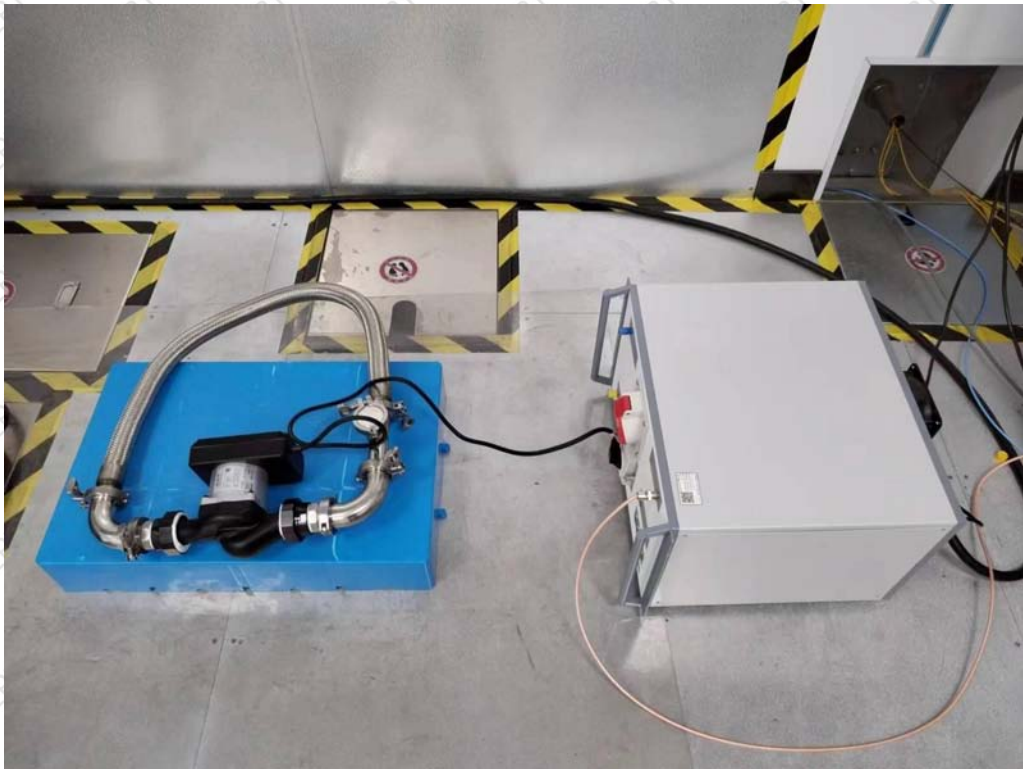
<p>7.4</p>	<p>SURGE AT POWER PORT</p>				
	<p>Test Requirement: EN IEC 55014-2:2021</p>				
	<p>Test Method: EN 61000-4-5:2014 +A1:2017</p>				
	<p>Performance Criterion: B</p>				
	<p>Interval: 60s between each surge</p>				
	<p>Burst Period: 300ms</p>				
	<p>No. of surges: 5 positive at 90°, 5 negative at 270°.</p>				
<p>7.4.1</p>	<p>E.U.T. Operation</p>				
	<p>Operating Environment:</p>				
	<p>Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar</p>				
	<p>Test mode :Normal Working_keep EUT running continual .</p>				
<p>7.4.2</p>	<p>Test Setup Diagram</p>				
<p>7.4.3</p>	<p>Test Results</p>				
	<p>Test Line</p>	<p>Level (kV)</p>	<p>Polarity</p>	<p>Phase(deg)</p>	<p>Result / Observations</p>
	<p>L-N</p>	<p>1</p>	<p>+</p>	<p>90°</p>	<p>A</p>
	<p>L-N</p>	<p>1</p>	<p>-</p>	<p>270°</p>	<p>A</p>
	<p>L - PE</p>	<p>2</p>	<p>+</p>	<p>90°</p>	<p>A</p>
	<p>L - PE</p>	<p>2</p>	<p>-</p>	<p>270°</p>	<p>A</p>
	<p>N - PE</p>	<p>2</p>	<p>+</p>	<p>90°</p>	<p>A</p>
	<p>N - PE</p>	<p>2</p>	<p>-</p>	<p>270°</p>	<p>A</p>
	<p>Results: A: No degradation in the performance of the EUT was observed.</p>				

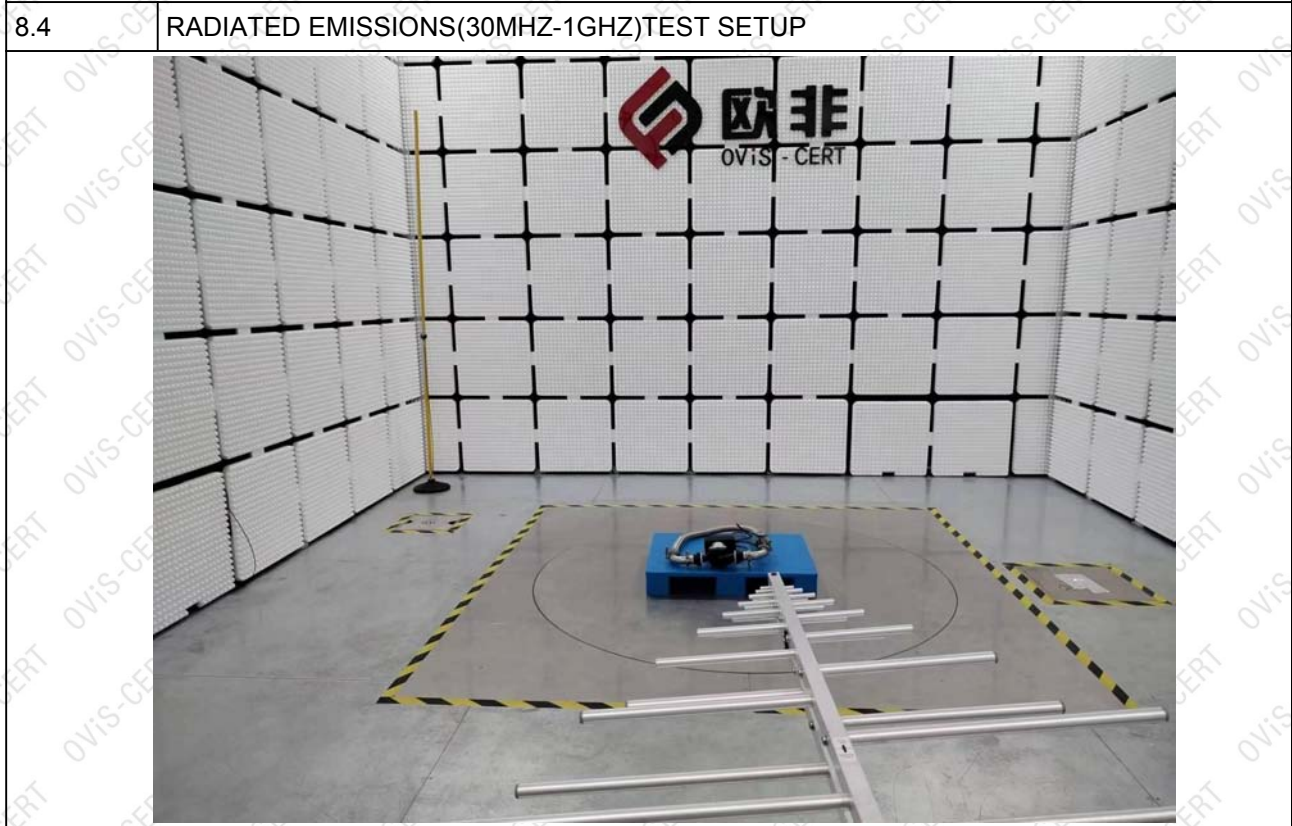
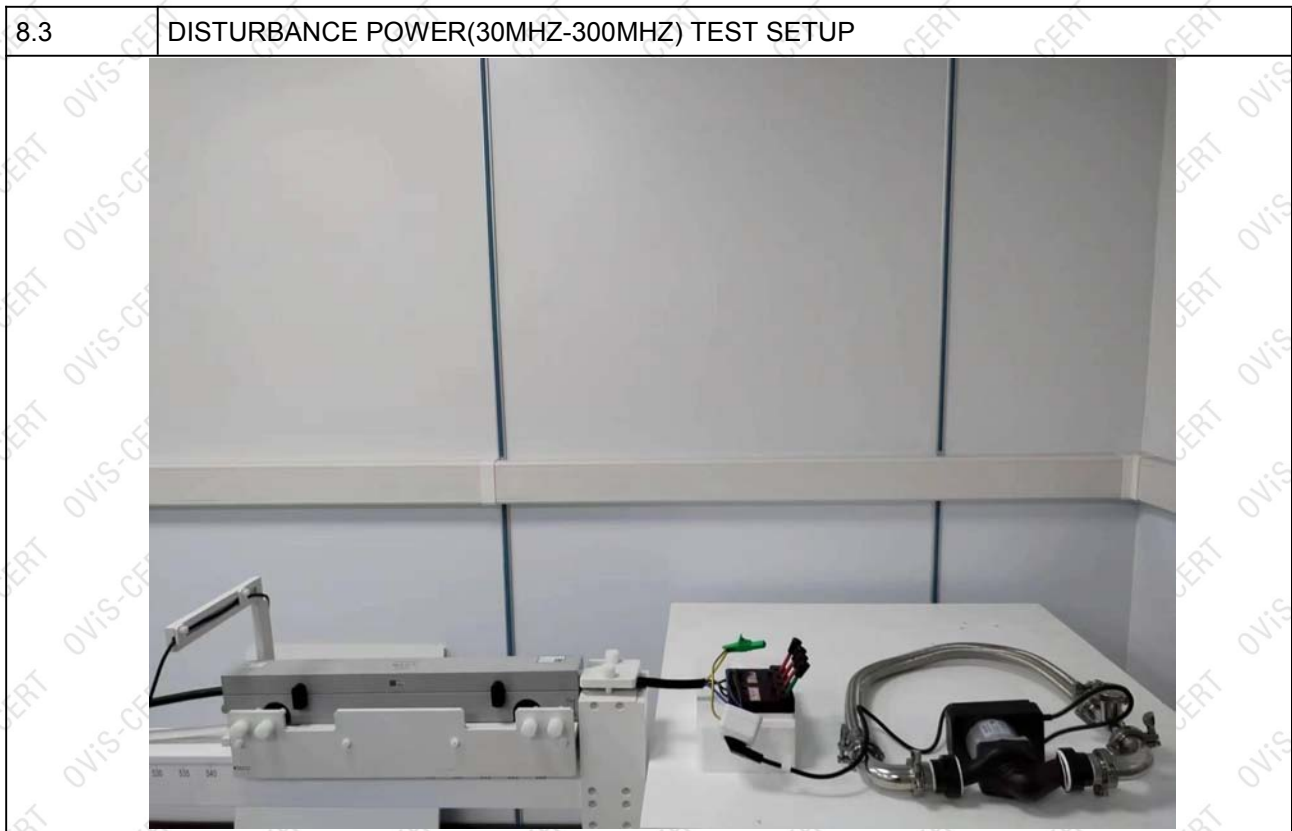
<p>7.5</p>	<p>VOLTAGE DIPS AND INTERRUPTIONS</p>				
	<p>Test Requirement: EN IEC 55014-2:2021</p>				
	<p>Test Method: EN 61000-4-11:2004 +A1:2017</p>				
	<p>Performance Criterion: For 50Hz: 0% of UT (Rated Voltage) for 0.5 Cycle: C; 40% of UT for 10 Cycle: C; 70% of UT for 25 Cycle: C For 60Hz: 0% of UT (Rated Voltage) for 0.5 Cycle: C; 40% of UT for 12 Cycle: C; 70% of UT for 30 Cycle: C</p>				
	<p>No. of Dips / Interruptions:3 per Level</p>				
	<p>Time between dropout : 10s</p>				
	<p>No. of surges: 5 positive at 90°, 5 negative at 270°.</p>				
<p>7.5.1</p>	<p>E.U.T. Operation</p>				
	<p>Operating Environment:</p>				
	<p>Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar</p>				
	<p>Test mode :Normal Working_keep EUT running continual .</p>				
<p>7.5.2</p>	<p>Test Setup Diagram</p>				
	 <p>The diagram illustrates the test setup. A 'Voltage Dips/Interruption Generator' is connected to an 'EUT' (Equipment Under Test) and an 'AE' (Auxiliary Equipment) which is placed on a 'Non-Conducted Table'. A 'Ground Reference Plane' is indicated on the left, and another is shown at the base of the table. The entire setup is enclosed in a frame.</p>				
<p>7.5.3</p>	<p>Test Results</p>				
	<p>Level % UT</p>	<p>Phase(deg)</p>	<p>Duration</p>	<p>No. of Dips / Interruptions</p>	<p>Result / Observations</p>
	<p>0</p>	<p>0°</p>	<p>0.5 Cycles</p>	<p>3</p>	<p>A</p>
	<p>0</p>	<p>180°</p>	<p>0.5 Cycles</p>	<p>3</p>	<p>A</p>
	<p>40</p>	<p>0°</p>	<p>10Cycles</p>	<p>3</p>	<p>A</p>
	<p>40</p>	<p>180°</p>	<p>10Cycles</p>	<p>3</p>	<p>A</p>
	<p>70</p>	<p>0°</p>	<p>25 Cycles</p>	<p>3</p>	<p>A</p>
	<p>70</p>	<p>180°</p>	<p>25 Cycles</p>	<p>3</p>	<p>A</p>
	<p>Results: A: No degradation in the performance of the EUT was observed.</p>				

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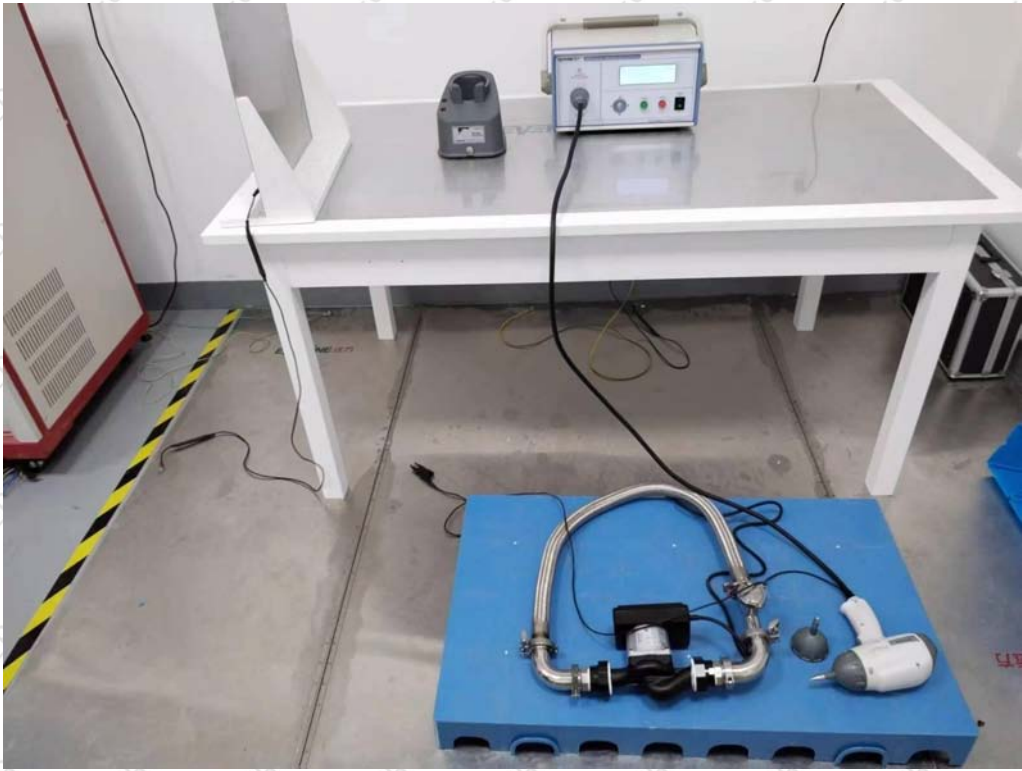
7.6	CONDUCTED IMMUNITY AT POWER PORT(150KHZ-230MHZ)				
	Test Requirement: EN IEC 55014-2:2021				
	Test Method:EN 61000-4-6:2014				
	Performance Criterion: A				
	Frequency Range: 0.15MHz to 230MHz				
	Modulation: 80%, 1kHz Amplitude Modulation				
	Step Size :1%				
7.6.1	E.U.T. Operation				
	Operating Environment:				
	Temperature: 22°C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar				
	Test mode :Normal Working_keep EUT running continual .				
7.6.2	Test Setup Diagram				
	<p>The diagram illustrates the test setup for conducted immunity at a power port. It features a Ground Reference Plane (GRP) with several components: AE1 and AE2 are antenna-like structures; CDN and CDN2 are clamp-on devices; EUT is the Equipment Under Test; and a Power Attenuator is connected to the EUT. A Signal Generator and Power Amplifier are connected to the system. Dimensions are specified: $0.1m < L < 0.3m$ for the distance between AE1 and EUT, $L_2 < 0.3m$ for the distance between EUT and the Power Attenuator, and $50mm > h > 30mm$ for the height of the components above the GRP. The EUT is supported by 0.1m supports.</p>				
7.6.3	Test Results				
	Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
	AC power port	3	CDN	3S	A
	Results: A: No degradation in the performance of the EUT was observed.				

7.7	RADIATED IMMUNITY(80MHZ-1GHZ)				
	Test Requirement: EN IEC 55014-2:2021				
	Test Method:EN 61000-4-3:2006 +A1:2008+A2:2010				
	Performance Criterion: A				
	Frequency Range: 80MHz to 1GHz				
	Antenna Polarisation: Vertical and Horizontal				
	Modulation: :1kHz,80% Amp.Mod,1% increment				
7.7.1	E.U.T. Operation				
	Operating Environment:				
	Temperature: 22℃ Humidity: 51 % RH Atmospheric Pressure: 1020 mbar				
	Test mode :Normal Working_keep EUT running continual .				
7.7.2	Test Setup Diagram				
	<p>The diagram illustrates the test setup within a chamber. A camera is positioned at the top left. An antenna tower is located on the right side, with an antenna at a height of 155cm. The EUT (Equipment Under Test) is placed on a table that is 80cm high. The distance between the EUT and the antenna tower is 3m. A ground reference plane is shown at the bottom of the chamber. Below the chamber, a table holds a monitor, signal generator, and power amplifier.</p>				
7.7.3	Test Results				
	Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
	80MHZ-1GHZ	3	Front	3S	A
	80MHZ-1GHZ	3	Back	3S	A
	80MHZ-1GHZ	3	Left	3S	A
	80MHZ-1GHZ	3	Right	3S	A
	80MHZ-1GHZ	3	Top	3S	A
	80MHZ-1GHZ	3	Underside	3S	A
	Results: A: No degradation in the performance of the EUT was observed.				

8	Photographs
8.1	HARMONICS EMISSIONS AND VOLTAGE CHANGES, VOLTAGE FLUCTUATIONS AND FLICKER TEST SETUP
	
8.2	CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) TEST SETUP
	



8.5 ELECTROSTATIC DISCHARGE TEST SETUP



8.6 ELECTRICAL FAST TRANSIENTS/BURST AT POWER PORT TEST SETUP



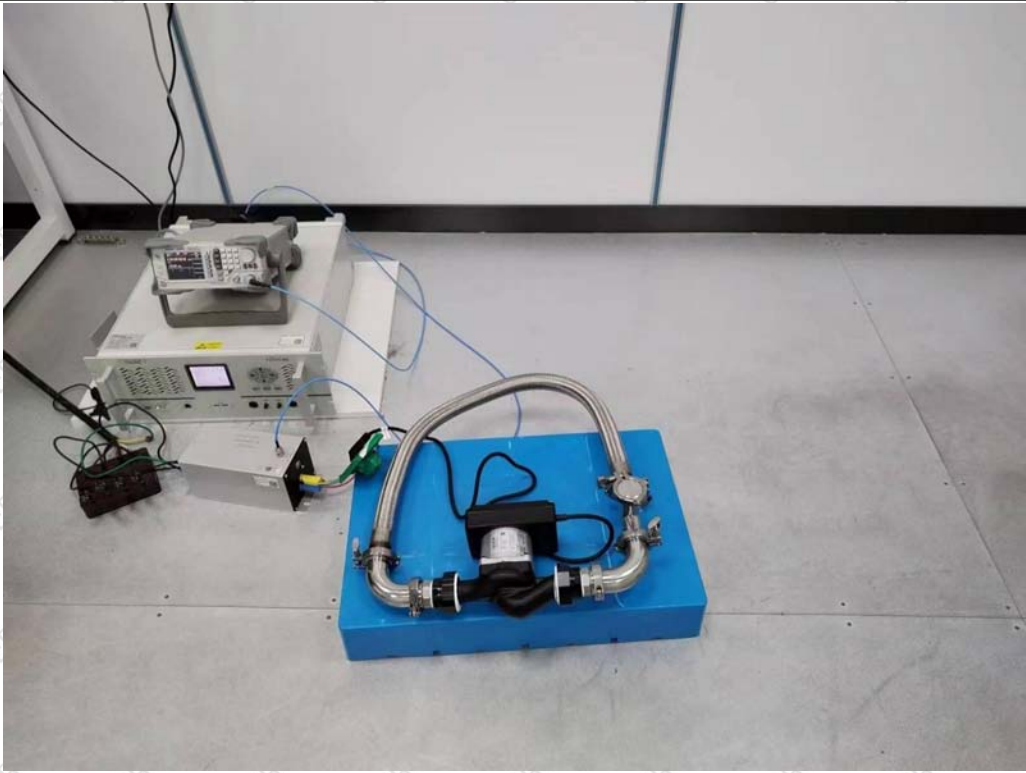
8.7 SURGE AT POWER PORT TEST SETUP



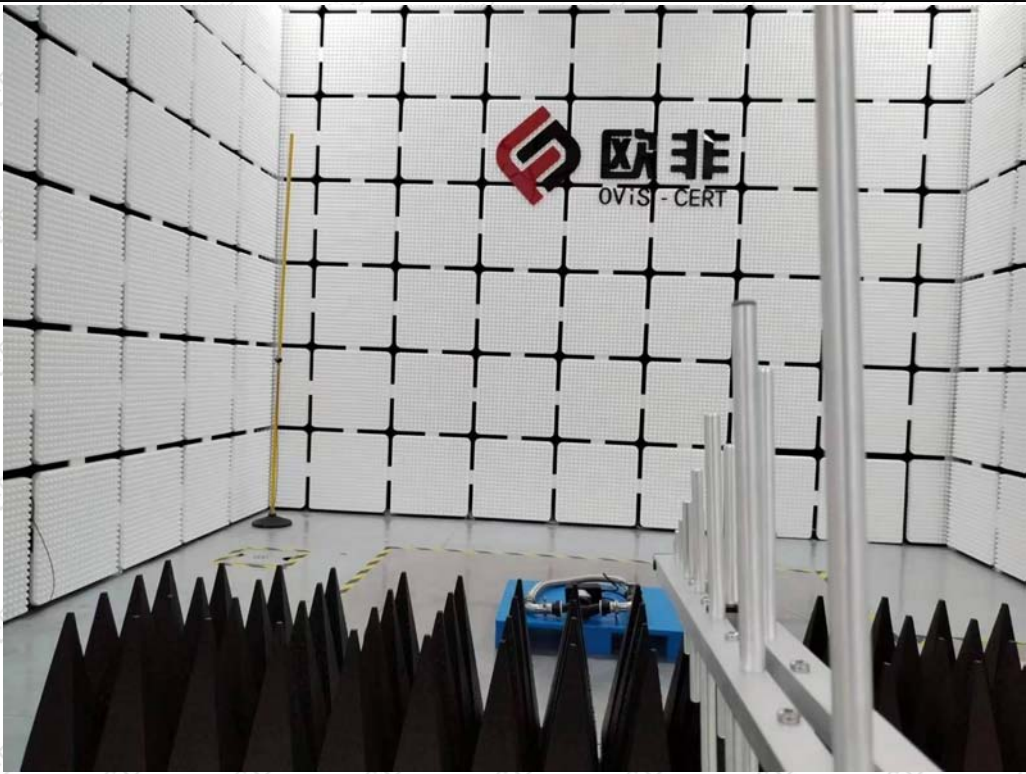
8.8 VOLTAGE DIPS AND INTERRUPTIONS TEST SETUP



8.9 CONDUCTED IMMUNITY AT POWER PORT(150KHZ-230MHZ) TEST SETUP



8.10 RADIATED IMMUNITY(80MHZ-1GHZ) TEST SETUP



8.11 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)



8.11 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)





Appendix I

Model number

GEX-H 15-70-130,MASTER-H 15-70-130,GEX-H 15-80-130,MASTER-H 15-80-130,
GEX-H 25-70-130,MASTER-H 25-70-130,GEX-H 25-80-130,MASTER-H 25-80-130,GEX-S 15-70-130,
MASTER-S 15-70-130,GEX-S 15-75-130,MASTER-S 15-75-130,GEX-S 25-70-130,
MASTER-S 25-70-130,GEX-S 25-75-130,MASTER-S 25-75-130,GEX-C 15-80-130,
MASTER-C 15-80-130,GEX-C 25-80-180,MASTER-C 25-80-180,GEX-C 25-80-130,
MASTER-C 25-80-130,GEX-C 32-80-180,MASTER-C 32-80-180,GEX-C 15-60-130,
MASTER-C 15-60-130,GEX-C 25-60-130,MASTER-C 25-60-130,GEX-C 25-60-180,
MASTER-C 25-60-180,GEX-C 25-70-130,MASTER-C 25-70-130,GEX-C 32-60-180,
MASTER-C 32-60-180,GEX-C 15-40-130,MASTER-C 15-40-130,GEX-C 25-40-130,
MASTER-C 25-40-130,GEX-C 25-40-180,MASTER-C 25-40-180,GEX-C 32-40-180,
MASTER-C 32-40-180,GEX-C 25-100-130,MASTER-C 25-100-130,GEX-C 15-100-130,
MASTER-C 15-100-130,GEX-C 32-100-180,MASTER-C 32-100-180,COSMO-C 25-8-180,
COSMO-C 25-10-180,COSMO-C 25-12-180,COSMO-C 32-8-180,COSMO-C 32-10-180,
COSMO-C 32-12-180,COSMO-S 15-80-130,COSMO-S 25-80-130,GEX,GEX-MSS,GEX-FCI,
GEX-NER,WEX,WEX-FCI,WEX-INT,TEX-FCI,TEX-C5,TEX-SMART,TEX-AR,TEX-SMART-R

...End of model...





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2. The copy of this report is invalid without a new seal of special stamp for OViS test report and invalid if altered.
3. This report is invalid without seals or signatures of Tester, Checker and Approval.
4. If there is no special announcement in this report, the information of producer and samples is not identified by OViS, the customer is responsible for truth of the samples.
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6. The test results shown in this report is only applicable for the samples supplied directly by the customer and accepted by the test organization, the customer shall not propagandize improperly without permission by OViS.
7. "P" means "pass", "F" means "fail", "N/A" or "—" means "not applicable" and " / " means "not test".

Address: Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China

Tel: 400-8008-959

Post Code: 318000

E-mail: info@ovis-lab.com

<http://www.ovis-lab.com>

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欧菲亚美检测技术(浙江)有限公司(OViS)
OVIS Testing Technology (Zhejiang) Co., Ltd.

地址:浙江省台州市椒江区下陈街道飞跃科创园31幢 □ www.ovis-lab.com ☒ info@ovis-lab.com
Add: Building 31, Feiyue Park, Xiachen Street, Jiaojiang District, Taizhou City, Zhejiang Province, China



400-8008-959