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TEST REPORT



CheckCode:890263 Report No.:C202409186924-2E

Company Name:	EASCO ELECTRICAL (JIANG SU) CO, LTD.
Address:	No.88 ChaoYang Road, HuiPing Town, Qidong City, JiangSu Province
	e information is provided by the client and responsible for its authenticity
Sample Name:	Low Smoke Halogen Free Wiring Duct
Material:	PC+ABS
Supplier:	EASCO ELECTRICAL (JIANG SU) CO, LTD.
Sample Type:	Irregular rubber and plastic products
Sample State:	Normal
Date of Receipt:	Sep.18, 2024 Test Period: Sep.18, 2024 – Sep.24, 2024
Test Request:	With reference to TB/T 3139-2021 Limit of harmful substance of non-metallic materials and indoor air for railway locomotive and vehicle
	4.6 rubber and plastic products and 5 requirements and test methods for
	prohibited and restricted substances in non-metallic materials for railway
	locomotive and vehicle, Selected test(s) as requested by applicant, Please refer to following page(s).
Judge Standard:	TB/T 3139-2021 Limit of harmful substance of non-metallic materials and indoor
ouigo ounidaran	air for railway locomotive and vehicle
Test Result:	Please refer to following page(s).
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Edited by <u>Zhou</u> Mi	ngfern Reviewed by <u>Zhang Lina</u> Approved by <u>Long X-sang</u>
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Issue date:Sep.25,2024

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Result Summary:

4.6 Rubber and plastic products

No.	Test Item	Standard	Sample	Conclusion
NO.	rest item	Requirements	1	Conclusion
1	Soluble Lead(Pb)	≤5mg/kg	N.D.	Comply
2	Soluble Cadmium(Cd)	≤5mg/kg	N.D.	Comply
3	Volatile Matter	≤6g/kg	1.3g/kg	Comply

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5 Requirements and test methods for prohibited and restricted substances in non-metallic materials for railway locomotive and vehicle

Prohibited Substances:

No.	Test Item		Controlled	Standard	Sample	Conclusion
NO.			Applications	Requirements	1	Conclusion
1	A	sbestos	All	Prohibited	Negative	Comply
2	-	nd its compounds unt as Be)	All	Prohibited	N.D.	Comply
3		d its compounds unt as Co)	All	Prohibited	N.D.	Comply
4		nd its compounds unt as Cd)	All	≤100mg/kg	N.D.	Comply
5	4-Nitrobiphenyl		All	Prohibited	N.D.	Comply
6		2-naphthylamine			N.D.	
7	Aromatic amine	Benzidine	All	Prohibited	N.D.	Comply
8		4-aminobiphenyl			N.D.	
9	<u>E</u>	Monomethyl dibromodiphenyl methane		Ś	Califie	
10	Halogenated Benzyltoluene	Monomethyl dichlorodiphenyl methane (Ugilec 121 Ugilec 21)	All	Prohibited	N.D.	Comply
11		Monomethyl tetrachlorodiphenyl methane(Ugilec 141)		Ê	<u>e</u>	

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Ne	Test Item	Controlled	Standard	Sample	Conclusion	
No.	Test item	Applications	Requirements	1	Conclusion	
12	Polybrominated Diphenyl Ethers (PBDE)	All	Pentabromodip henyl ether: ≤1000mg/kg Octabromodiph enyl ether: Prohibited	N.D.	Comply	
13	Pentachlorophenol (PCP) and its salts and esters	All	≤1000mg/kg	N.D.	Comply	
14	Polychlorinated Terphenyls (PCT)	All	≤50mg/kg	N.D.	Comply	
15	short-chain chlorinated paraffins) (SCCP)	All	≤1000mg/kg	N.D.	Comply	

Restricted Substances:

		Controlled	Standard	Sample	
No.	Test Item	Applications	Requirements	(1)	Conclusion
1	Lead and its compounds (Count as Pb)	All (except coating)	≤1000mg/kg	N.D.	Comply
2	Mercury and its compounds (Count as Hg)	All(except wooden product)	≤1000mg/kg	N.D.	Comply
3	Hexavalent chromium compound(Count as Cr(VI))	All (except Leather)	≤1000mg/kg	N.D.	Comply
4	Polybrominated biphenyls (PBB)	All(except Textile)	≤1000mg/kg	N.D.	Comply
5	Polybrominated Diphenyl Ethers (PBDE)(except Pentabromodiphenyl ether and Octabromodiphenyl ether)	All	≤1000mg/kg	N.D.	Comply
6	MMMF	All	Each ≤1000mg/kg	N.D.	Comply
7	Talcum	All	≤1000mg/kg	N.D.	Comply
8	Antimony and its compounds (Count as Sb)	All	≤1000mg/kg	N.D.	Comply

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No.	Test Item		Controlled	Standard	Sample	Conclusion
NO.		rest item	Applications	Requirements	1	Conclusion
9		Chain Chlorinated affins (MCCP)	All	≤1000mg/kg	N.D.	Comply
10		nylenediphenyl pcyanate(MDI)	All	≤1000mg/kg	N.D.	Comply
11	S.C.	PAHs	All	≤500mg/kg	N.D.	Comply
12	Organ	ic tin compounds	All	Each ≤1000mg/kg	N.D.	Comply
13		Benzylbutyl phthalate (BBP)			N.D.	(A)
14		Dibutyl phthalate (DBP)	All	Sum	N.D.	
15		Diethylhexyl phthalate (DEHP)		≤1000mg/kg	N.D.	Comply
16		Diisobutyl phthalate (DIBP)			N.D.	
17	Phthalates	Diisononyl phthalate (DINP)		Each	N.D.	
18		Diisodecyl phthalate (DIDP)			N.D.	
19	-	Di-n-octyl phthalate (DNOP)	All	≤1000mg/kg	N.D.	Comply
20		Dimethyl phthalate (DMP)			N.D.	(R)
21	ТМТО		All	≤1000mg/kg	N.D.	Comply
22	Polychlorinated Biphenyls (PCB)		AII	≤50mg/kg	N.D.	Comply
23	Trichlorobenzene(TCB)		All	≤1000mg/kg	N.D.	Comply

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Sample description:

Sample No.	Description
1	Lt-grey plastic

Remark:

1) 1mg/kg = 1ppm = 0.0001%
2) "N.D." = Not Detected (Below Method Detection Limit or below reporting limit)
3) RL=Reporting Limit
4) MDL = Method Detection Limit
5)Negative<0.1%(m/m) (Not detected asbestos),Positive≥0.1%(m/m) (Detected asbestos)
6) The report is English version of test report C202409186924-2. In case of divergence, the Chinese text shall be regarded as authentic.

Test results:

4.6 rubber and plastic products

Test Method: With reference to TB/T 3139-2021&GB 18586-2001 section 5.4, analysis was performed by AAS.

No.	Test Item	Sample	Unit	MDL	Standard Requirements	Conclusion
1	Soluble Lead(Pb)	N.D.	mg/kg	2	≤5	Comply
2	Soluble Cadmium(Cd)	N.D.	mg/kg	2	≤5	Comply

Test Method: With reference to TB/T 3139-2021&GB 18586-2001 section 5.5.

No.	Test Item	Sample 1	Unit	MDL	Standard Requirements	Conclusion
3	Volatile Matter	1.3	g/kg	0.10	≤6	Comply

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5 Requirements and test methods for prohibited and restricted substances in non-metallic materials for railway locomotive and vehicle

Prohibited Substances:

Test Method: With reference to GB/T 23263-2009, analysis was performed by Polarizingmicroscope (PLM) and X-ray powder diffractometer (XRD).

No.	Test Item	CAS No.	Sample 1	MDL	Standard Requirem ents	Conclu sion
	Asbestos		S)/	1		
	Chrysotile	12001-29-5	Negative	0.1% (m/m)		
(4) (4)	Amosite	12172-73-5	Negative	0.1% (m/m)		
1	Crocidolite	Crocidolite 12001-28-4		0.1% (m/m)	Drohibitod	Comply
	Anthophyllite	77536-67-5	Negative	0.1% (m/m)	Prohibited	Comply
	Tremolite	77536-68-6	Negative	0.1% (m/m)	(Selling	
	Actinolite	77536-66-4	Negative	0.1% (m/m)		

Test Method: With reference to TB/T 3139-2021&GB/T 33422-2016, analysis was performed by ICP-OES.

	\$°/		Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Requireme	on
						nts	
2	Beryllium and its		N.D.	mg/kg	5	Prohibited	Comply
-	compounds(Count as Be)		N.D.	iiig/itg	Ŭ	1 Tornioned	Comply
2	Cobalt and its compounds			malka	F	Prohibited	Comply
3	(Count as Co)		N.D.	mg/kg	5	Prohibited	Comply

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Test Method: With reference to GB/T 26125-2011, analysis was performed by ICP-OES.

No.	Test Item	CAS No.	Sample	Unit	MDL	Standard Requireme nts	Conclusi on
4	Cadmium and its compounds (Count as Cd)		N.D.	mg/kg	2	≤100	Comply

Test Method: With reference to TB/T 3139-2021 Annex E, analysis was performed by GC-MS.

No.			Sample			Standard	Conclusi
	Test Item	CAS No.	1	Unit	MDL	Requireme nts	on
5	4-Nitrobiphenyl	92-93-3	N.D.	mg/kg	10	Prohibited	Comply

Test Method: With reference to TB/T 3139-2021& GB/T 17592 -2011, analysis was performed by GC-MS.

	Test Item			Sample			Standard	Conclusi
No.			CAS No.	1	Unit	MDL	Requireme nts	on
6	Aromat	2-naphthylamine	91-59-8	N.D.	mg/kg	5	6	
7	ic	Benzidine	92-87-5	N.D.	mg/kg	5	Prohibited	Comply
8	8 amine	4-aminobiphenyl	92-67-1	N.D.	mg/kg	5		

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Test	vietnou	: With reference to TB/T	3139-2021 AI	inex F, ana	alysis was	spenon	ned by GC-M	S.
No.		Test Item	CAS No.	Sample 1	Unit	MDL	Standard Requirem ents	Conclusi on
9	Hal	Monomethyl dibromodiphenyl methane	99688-47-8					
10	oge nat ed Ben zylt	Monomethyl dichlorodiphenyl methane (Ugilec 121 Ugilec 21)	81161-70-8	N.D.	mg/kg	10	Prohibited	Comply
11	olu ene	Monomethyl tetrachlorodiphenyl methane(Ugilec 141)	76253-60-6			S		<u>S</u>

Test Method: With reference to GB/T 26125-2011, analysis was performed by GC-MS.

	Test Item		Sample			Standard	Conclusi on
No.		CAS No.	1	Unit	MDL	Requirem ents	
	Polybrominated Diphenyl Ethe	ers (PBDE)		\$\$)			
12	Pentabromodiphenyl ether		N.D.	mg/kg	5	≤1000	Comply
	Octabromodiphenyl ether	5)	N.D.	mg/kg	5	Prohibited	Comply

Test Method: With reference to GB/T 18414.1-2006, analysis was performed by GC-MS.

No.	Test Item	CAS No.	Sample 1	Unit	MDL	Standard Requirem ents	Conclusi on
13	Pentachlorophenol (PCP) and its salts and esters		N.D.	mg/kg	0.5	≤1000	Comply

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Test Method: With reference to TB/T 3139-2021&SN/T 3918-2014, analysis was performed by GC-ECD.

No.	Test Item	CAS No.	Sample 1	Unit	MDL	Standard Requirem ents	Conclusi on
14	Polychlorinated Terphenyls (PCT)		N.D.	mg/kg	5	≤50	Comply

Test Method: With reference to GB/T 33345-2016, analysis was performed by GC-ECD/NCI-GC/MS.

			Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Requirem ents	on
15	Short-chain chlorinated paraffins) (SCCP)	85535-84-8	N.D.	mg/kg	50	≤1000	Comply

Restricted Substances:

Test Method: With reference to GB/T 26125-2011, analysis was performed by ICP-OES.

	Test Item	CAS No.	Sample			Standard	Conclusi on
No.			1	Unit	MDL	Requirem ents	
1	Lead and its compounds (Count as Pb)		N.D.	mg/kg	2	≤1000	Comply
2	Mercury and its compounds (Count as Hg)		N.D.	mg/kg	2	≤1000	Comply

Test Method: With reference to GB/T 26125-2011, analysis was performed by UV-Vis.

		i i i i i i i i i i i i i i i i i i i	Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Requirem ents	on
3	Hexavalent chromium compound(Count as Cr(VI))		N.D.	mg/kg	5	≤1000	Comply

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No.	Test Item	CAS No.	Sample	Unit	MDL	Standard Require	Conclusi
NO.	rest item		1	•		ments	on
	Polybrominated biphenyls (PBE	3)					
	Monobromobiphenyl		N.D.	mg/kg	5	s)	
	Dibromobiphenyl		N.D.	mg/kg	5		
	Tribromobiphenyl		N.D.	mg/kg	5		
	Tetrabromobiphenyl	/ @	N.D.	mg/kg	5		
4	Pentabromobiphenyl	(8)	N.D.	mg/kg	5		1
4	Hexabromobiphenyl		N.D.	mg/kg	5		
	Heptabromobiphenyl		N.D.	mg/kg	5	(se)
(A)	Octabromobiphenyl		N.D.	mg/kg	5		
	Nonabromobiphenyl		N.D.	mg/kg	5		
	Decabromobiphenyl	73	N.D.	mg/kg	5		
	Sum		N.D.	mg/kg		≤1000	Comply

Test Method: With reference to GB/T 26125-2011, analysis was performed by GC-MS.

Test Method: With reference to GB/T 26125-2011, analysis was performed by GC-MS.

			Sample	2		Standard	Conclusi
No.	Test Item	CAS No.	1.0	Unit	MDL	Require ments	on
	Polybrominated Diphenyl Ether	s (PBDE)					
	Monobromodiphenyl ether		N.D.	mg/kg	5		6
	Dibromodiphenyl ether		N.D.	mg/kg	5		
	Tribromodiphenyl ether		N.D.	mg/kg	5		
5	Tetrabromodiphenyl ether		N.D.	mg/kg	5		
5	Hexabromodiphenyl ether	/2	N.D.	mg/kg	5		
	Heptabromodiphenyl ether		N.D.	mg/kg	5		
	Nonabromodiphenyl ether		N.D.	mg/kg	5		
	Decabromodiphenyl ether		N.D.	mg/kg	5	(@	85
	Sum		N.D.	mg/kg		≤1000	Comply

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Test Method: With reference to TB/T 3139-2021 Annex H, qualitative determination by Polarizingmicroscope (PLM), quantitative determination by ICP-OES.

			Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	RL	Require ments	on
	MMMF						<u> </u>
6	Aluminosilicate Refractory Ceramic Fibres*		N.D.	mg/kg	50	≤1000	Comply
	Zirconia Aluminosilicate Refractory Ceramic Fibres*		N.D.	mg/kg	50	≤1000	Comply

Remark: *The substances are tested in term of its respective elements (e.g. Si, Al,Zr).

Test Method: With reference to TB/T 3139-2021 Annex I, qualitative determination by Polarizingmicroscope (PLM) and X-ray powder diffractometer (XRD), quantitative determination by ICP-OES.

	Test Item	CAS No.	Sample		t RL	Standard	Conclusi
No.			1	Unit		Require ments	on
7	Talcum *	14807-96-6	N.D.	mg/kg	500	≤1000	Comply

Remark: *The substances are tested in term of its respective elements (e.g. Mg).

Test Method: With reference to TB/T 3139-2021&GB/T 33422-2016, analysis was performed by ICP-OES.

No.	Test Item	CAS No.	Sample	Unit	MDL	Standard Require ments	Conclusi on
8	Antimony and its compounds (Count as Sb)		N.D.	mg/kg	10	≤1000	Comply

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Test Method: With reference to TB/T 3139-2021 Annex J, analysis was performed by

GC-ECD/NCI-GC/	MS.
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	Test Item	CAS No.	Sample			Standard	Conclusi
No.			1	Unit	MDL	Require ments	on
9	Medium Chain Chlorinated Paraffins (MCCP)	85535-85-9	N.D.	mg/kg	50	≤1000	Comply

Test Method: With reference to TB/T 3139-2021& GB/T 18446-2009, analysis was performed by GC-FID.

 No.	Test Item	CAS No.	Sample	Unit	MDL	Standard Require ments	Conclusi on
10	Methylenediphenyl diisocyanate (MDI) *		N.D.	mg/kg	10	≤1000	Comply

Remark: ⁺Methylenediphenyl diisocyanate (MDI) including 4,4'- methylenediphenyl diisocyanate, 2,2'- methylenediphenyl diisocyanate, 2,4'- methylenediphenyl diisocyanate.

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Test Method: With reference to GB/T 29784.2-2013, analysis was performed by GC-MS.

			Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Require	on
	PAHs					ments	C
	Naphthalene	91-20-3	N.D.	ma/ka	0.2	o	<u> </u>
	/ / / / / / / / / / / / / / / / / / / /			mg/kg		<u>>)</u>	
	Acenaphthylene	208-96-8	N.D.	mg/kg	0.2		
	Acenaphthene	83-32-9	N.D.	mg/kg	0.2		
	Fluorene	86-73-7	N.D.	mg/kg	0.2		
	Phenanthrene	85-01-8	N.D.	mg/kg	0.2		
	Anthracene	120-12-7	N.D.	mg/kg	0.2		
	Fluoranthene	206-44-0	N.D.	mg/kg	0.2	(89/
(3)	Pyrene	129-00-0	N.D.	mg/kg	0.2		
11	Benzo[a]anthracene	56-55-3	N.D.	mg/kg	0.2		
	Chrysene	218-01-9	N.D.	mg/kg	0.2		
	Benzo[b]fluoranthene	205-99-2	N.D.	mg/kg	0.2		
	Benzo[j]fluoranthene	205-82-3	N.D.	mg/kg	0.2		
	Benzo[k]fluoranthene	207-08-9	N.D.	mg/kg	0.2	<u>(</u>	
	Benzo[a]pyrene	50-32-8	N.D.	mg/kg	0.2	(8	
	Indeno[1,2,3-cd]pyrene	193-39-5	N.D.	mg/kg	0.2		
	Dibenzo[a,h]anthracene	53-70-3	N.D.	mg/kg	0.2		
	Benzo[g,h,i]perylene	191-24-2	N.D.	mg/kg	0.2		
	Benzo[e]pyrene	192-97-2	N.D.	mg/kg	0.2		🦽
	Sum		N.D.	mg/kg		≤500	Comply

Test Method: With reference to GB/T 35492-2017, analysis was performed by GC-MS.

		j.	Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Require ments	on
	Organic tin compounds				I	(@	89/
(s)	Dioctyltin	3542-36-7	N.D.	mg/kg	2	≤1000	Comply
12	Dibutyltin	683-18-1	N.D.	mg/kg	2	≤1000	Comply
	Tributyltin	1461-22-9	N.D.	mg/kg	2	≤1000	Comply
	Triphenyltin	639-58-7	N.D.	mg/kg	2	≤1000	Comply

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No.		Test Item	CAS No.	Sample	Unit	MDL	Standard Require	Conclusi
NO.		lest item	CAS NO.	1	Unit	WIDL	ments	on
13		Benzylbutyl phthalate (BBP)	85-68-7	N.D.	mg/kg	50	» —	
14		Dibutyl phthalate (DBP)	84-74-2	N.D.	mg/kg	50		
15		Diethylhexyl phthalate (DEHP)	117-81-7	N.D.	mg/kg	50		
16	Ph	Diisobutyl phthalate (DIBP)	84-69-5	N.D.	mg/kg	50		(A)
	tha	Sum		N.D.	mg/kg		≤1000	Comply
17	lat es	Diisononyl phthalate (DINP)	28533-12-0	N.D.	mg/kg	50	≤1000	Comply
18		Diisodecyl phthalate (DIDP)	26761-40-0	N.D.	mg/kg	50	≤1000	Comply
19		Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	mg/kg	50	≤1000	Comply
20		Dimethyl phthalate (DMP)	131-11-3	N.D.	mg/kg	50	≤1000	Comply

Test Method: With reference to TB/T 3139-2021 Annex K, analysis was performed by GC-MS.

Test Method: With reference to TB/T 3139-2021, analysis was performed by LC-PDA.

No.	Test Item	CAS No.	Sample		MDL	Standard	Conclusi on
			1	Unit		Require ments	
21	TMTD	137-26-8	N.D.	mg/kg	10	≤1000	Comply

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Test Method: With reference to GB/T 32887-2016, analysis was performed by GC-MS.

			Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Require ments	on
	Polychlorinated Biphenyls (PCE	3)					
	2-Chlorobiphenyl (PCB 1)	2051-60-7	N.D.	mg/kg	5	S)	
	2,2'-Dichlorobiphenyl(PCB 4)	13029-08-8	N.D.	mg/kg	5		
	2.4.4'-Trichlorobiphenyl (PCB 28)	7012-37-5	N.D.	mg/kg	5		
	2.2'.5.5'-Tetrachlorobiphenyl (PCB 52)	35693-99-3	N.D.	mg/kg	5		
	2.2'.4.5.5'-Pentachlorobiphen yl (PCB 101)	37680-73-2	N.D.	mg/kg	5	(
1 Contraction of the second se	2.2'3.4.4'.5'-Hexachlorobiphe nyl (PCB 138)	35065-28-2	N.D.	mg/kg	5		
22	2.2'.3.4.4'.5.5'- Heptachlorobiphenyl (PCB 180)	35065-29-3	N.D.	mg/kg	5		
	2,2',3, 3',4,4',5,5'-Chlorobiphenyl (PCB 194)	35694-08-7	N.D.	mg/kg	5	S	
	2,2',3, 3',4,4',5,5',6-Nonachlorobiphe nyl (PCB 206)	40186-72-9	N.D.	mg/kg	5		
	2,2',3, 3',4,4',5,5',6, 6'-Decachlorobiphenyl (PCB 209)	2051-24-3	N.D.	mg/kg	5	9	
	Sum		N.D.	mg/kg	<u> </u>	≤50	Comply

Test Method: With reference to GB/T 20384-2006, analysis was performed by GC-MS.

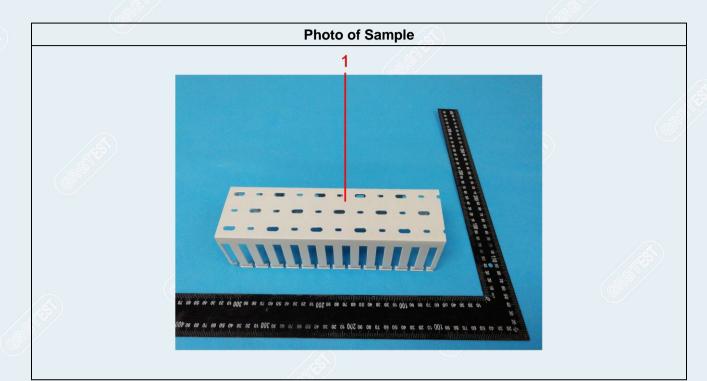
			Sample			Standard	Conclusi
No.	Test Item	CAS No.	1	Unit	MDL	Require ments	on
23	Trichlorobenzene (TCB)	120-82-1, 87-61-6	N.D.	mg/kg	1	≤1000	Comply

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