

Test Report Page: 1 of 36 No.: ETR25A05205 Date: 06-Nov-2025

MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

The following sample(s) was/were submitted and identified by the applicant as:

MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION Sample Submitted By Sample Name COPPER CLAD LAMINATES & PREPREGS (MADE IN THAILAND FACTORY)

Style/Item No. CCL-HL830NX(TYPE-A)(WITHOUT COPPER FOIL), CCL-HL832NX(TYPE-A)(WITHOUT

COPPER FOIL), GHPL-830NX(TYPE-A), GHPL-832NX(TYPE-A)

MGC 2025-015 Lot No.

Sample Receiving Date 31-Oct-2025

Testing Period 31-Oct-2025 to 06-Nov-2025 :

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending **Test Requested**

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results Please refer to following pages.

Conclusion (1) Based on the performed tests on submitted sample(s), the test results of Cadmium,

> Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang / Department Malager Signed for and on behalf o SĞS TAIWAN LTD. Chemical Laboratory - Taipei



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Test Part Description

No.1 : BLACK SHEET

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Lead (Pb)	analysis was performed by ICP-OES.	mg/kg	2	8.82	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed by ICP-OES.				
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	ı
Decabromobiphenyl		mg/kg	5	n.d.	ı
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	1	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	ı
Tetrabromodiphenyl ether		mg/kg	5	n.d.	ı
Pentabromodiphenyl ether		mg/kg	5	n.d.	ı
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	=
Sum of PBDEs		mg/kg	-	n.d.	1000

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Tetrabromobisphenol A (TBBP-A)	With reference to RSTS-E&E-121,	mg/kg	10	n.d.	-
(CAS No.: 79-94-7)	analysis was performed by LC/MS.				
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007,	mg/kg	0.5	n.d.	-
	analysis was performed by GC/MS.				
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007,	mg/kg	5	n.d.	-
	analysis was performed by GC/MS.				
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007,	mg/kg	0.5	n.d.	=
	analysis was performed by GC/MS.	J. J			
Short Chain Chlorinated	With reference to ISO 18219-1: 2021,	mg/kg	50	n.d.	-
Paraffins(C10-C13) (SCCP) (CAS No.:	analysis was performed by GC/MS.	J. J			
85535-84-8)					
Tributyl tin (TBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.	-
, , ,	analysis was performed by GC/FPD.	J, J			
Bis(tributyltin) oxide (TBTO) (CAS	Calculated from the result of Tributyl	mg/kg	0.03 🛦	n.d.	_
No.: 56-35-9)	Tin (TBT).	J, J			
Triphenyl tin (TPT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.	-
	analysis was performed by GC/FPD.	<i>J, J</i>			
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021,	**	-	Negative	-
	analysis was performed by FT-IR and				
	Flame Test.				
Asbestos					
Actinolite (CAS No.: 77536-66-4)	With reference to EPA 600/R-93/116:	-	-	Negative	-
Amosite (CAS No.: 12172-73-5)	1993, analysis was performed by	-	-	Negative	-
Anthophyllite (CAS No.: 77536-67-5)	Stereo Microscope (SM), Dispersion	-	-	Negative	=
Chrysotile (CAS No.: 12001-29-5)	Staining Polarized Light Microscope	-	-	Negative	-
Crocidolite (CAS No.: 12001-28-4)	(DS-PLM) and X-ray Diffraction	-	-	Negative	-
Tremolite (CAS No.: 77536-68-6)	Spectrometer (XRD).	-	-	Negative	-
AZO Dyes				j	
4-aminobiphenyl (CAS No.: 92-67-1)	With reference to EN ISO 14362-1:	mg/kg	3	n.d.	-
	2017, analysis was performed by				
	GC/MS and HPLC/DAD.				
Benzidine (CAS No.: 92-87-5)	With reference to EN ISO 14362-1:	mg/kg	3	n.d.	-
	2017, analysis was performed by				
	GC/MS and HPLC/DAD.				

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4-chloro-o-toluidine (CAS No.: 95-69-2)	Test Item(s)	Method	Unit	MDL	Result	Limit
69-2) 2017, analysis was performed by GC/MS and HPLC/DAD. 2-naphthylamine (CAS No.: 91-59-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3) n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 5-nitro-o-toluidine (CAS No.: 99-55- 8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 106-47-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 106-47-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 101-77-9) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-diaminodiphenylmethane With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dichlorobenzidine (CAS No.: 91- 94-1) GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 2017, analysis was performed by GC/MS and HPLC/DAD.	1 11 (0101)		4		No.1	
CC/MS and HPLC/DAD.			mg/kg	3	n.d.	-
2-naphthylamine (CAS No.: 91-59-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. o-aminoazotoluene (CAS No.: 97-56-3) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 5-nitro-o-toluidine (CAS No.: 99-55-3) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 106-47-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 2,4-diaminoanisole (CAS No.: 615-30, with reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4,4'-diaminodiphenylmethane With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dichlorobenzidine (CAS No.: 91-30, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/	[69-2]					
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o-aminoazotoluene (CAS No.: 97-56- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 5-nitro-o-toluidine (CAS No.: 99-55- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 106-47-8) With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 2,4-diaminoanisole (CAS No.: 615- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 4,4'-diaminodiphenylmethane With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dichlorobenzidine (CAS No.: 91- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: 91- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- with reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- with reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- with reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- with reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- with reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD.	2-naphthylamine (CAS No.: 91-59-8)		mg/kg	3	n.d.	-
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GC/MS and HPLC/DAD.	o-aminoazotoluene (CAS No.: 97-56-	With reference to EN ISO 14362-1:	mg/kg	3	n.d.	-
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GC/MS and HPLC/DAD. 4-chloroaniline (CAS No.: 106-47-8) With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 2,4-diaminoanisole (CAS No.: 615- With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. 4,4'-diaminodiphenylmethane With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dichlorobenzidine (CAS No.: 91- 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethoxybenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethylbenzidine (CAS No.: With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 3,3'-dimethyl-4,4'- With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD. 2-methoxy-5-methylaniline (CAS With reference to EN ISO 14362-1: mg/kg 3 n.d 2017, analysis was performed by GC/MS and HPLC/DAD.	5-nitro-o-toluidine (CAS No.: 99-55-	With reference to EN ISO 14362-1:	mg/kg	3	n.d.	-
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No.: ETR25A05205 Date: 06-Nov-2025

MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
4,4'-methylene-bis-(2-chloroaniline) (CAS No.: 101-14-4)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
4,4'-oxydianiline (CAS No.: 101-80-4)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
4,4'-thiodianiline (CAS No.: 139-65-1)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
o-toluidine (CAS No.: 95-53-4)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
2,4-diaminotoluene (CAS No.: 95-80-7)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
2,4,5-trimethylaniline (CAS No.: 137-17-7)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
o-anisidine (CAS No.: 90-04-0)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
4-aminoazobenzene (CAS No.: 60-09-3)	With reference to EN ISO 14362-1: 2017 or/and EN ISO 14362-3: 2017, analysis was performed by GC/MS & HPLC/DAD.	mg/kg	3	n.d.	-
2,4-xylidine (CAS No.: 95-68-1)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
2,6-xylidine (CAS No.: 87-62-7)	With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.	mg/kg	3	n.d.	-
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result	Limit
D: (2 athority and) related late (DELID)	With reference to IEC (2221 0, 2017	100 Ct /14 Ct	Ε0	No.1	1000
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
D" - L - L - L - L - L - L - L - L - L -	analysis was performed by GC/MS.		F0		
Diisodecyl phthalate (DIDP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
No.: 26761-40-0, 68515-49-1)	analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
No.: 28553-12-0, 68515-48-0)	analysis was performed by GC/MS.				
Di-n-octyl phthalate (DNOP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
No.: 117-84-0)	analysis was performed by GC/MS.				
Diisobutyl phthalate (DIBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
	analysis was performed by GC/MS.				
Di-ethyl phthalate (DEP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
84-66-2)	analysis was performed by GC/MS.				
Dimethyl phthalate (DMP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
131-11-3)	analysis was performed by GC/MS.				
Diisooctyl phthalate (DIOP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
27554-26-3)	analysis was performed by GC/MS.	3, 3			
Dipropyl phthalate (DPrP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
131-16-8)	analysis was performed by GC/MS.	J, J			
Di-cyclohexyl phthalate (DCHP) (CAS		mg/kg	50	n.d.	-
No.: 84-61-7)	analysis was performed by GC/MS.	3, 3			
Di-n-nonyl phthalate (DNNP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
No.: 84-76-4)	analysis was performed by GC/MS.				
Di-2-ethylhexyl adipate (DEHA) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	_
No.: 103-23-1)	analysis was performed by GC/MS.	9,9		1 6	
Di-n-pentyl phthalate (DNPP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	_
No.: 131-18-0)	analysis was performed by GC/MS.	mg/kg	30	11.0.	
Di-n-hexyl phthalate (DNHP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	_
No.: 84-75-3)	analysis was performed by GC/MS.	mg/kg	30	11.0.	
Di-n-heptyl phthalate (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	_
3648-21-3)	analysis was performed by GC/MS.	ilig/kg	30	Ti.d.	
Undecyl dodecyl phthalate (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	_
68515-47-9)	analysis was performed by GC/MS.	ilig/kg	50	n.a.	
Diundecyl phthalate (DUP) (CAS No.:	With reference to IEC 62321-8: 2017,	ma/ka	50	n.d.	
3648-20-2)	analysis was performed by GC/MS.	mg/kg	30	n.u.	_
Dipropylheptyl phthalate (CAS No.:	With reference to IEC 62321-8: 2017,	ma/ka	50	n d	
53306-54-0)	·	mg/kg	50	n.d.	-
JJJU0-J4-U)	analysis was performed by GC/MS.				

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
bis(2-n-Butoxyethyl) phthalate (DBEP) (CAS No.: 117-83-9)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Bis(2-ethoxyethyl) phthalate (DEEP) (CAS No.: 605-54-9)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
bis(4-Methyl-2-pentyl) phthalate (BMPP) (CAS No.: 146-50-9)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Dibenzyl phthalate (CAS No.: 523-31-9)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diphenyl phthalate (DPhP) (CAS No.: 84-62-8)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diisopentyl phthalate (DIPP) (CAS No.: 605-50-5)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
N-pentyl iso-pentyl phthalate (NPIPP) (CAS No.: 776297-69-9)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diisononyl adipate (CAS No.: 33703-08-1)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
1,2-Benzenedicarboxylic acid, di-C6- 8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP) (CAS No.: 68515-50-4)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP) (CAS No.: 84777-06-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Formaldehyde (CAS No.: 50-00-0)	With reference to ISO 17226-1: 2021, analysis was performed by LC/DAD.	mg/kg	3	n.d.	-
Mirex (CAS No.: 2385-85-5)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Perfluorooctane sulfonates and its	Modified EN 17681-1: 2022 & EN	mg/kg	0.01	n.d.	-
salts (PFOS and its salts) (CAS No.:	17681-2: 2022, analysis was performed				
1763-23-1 and its salts)	by LC/MS/MS.				
Perfluorooctanoic acid and its salts	Modified EN 17681-1: 2022 & EN	mg/kg	0.01	n.d.	-
(PFOA and its salts) (CAS No.: 335-	17681-2: 2022, analysis was performed				
67-1 and its salts)	by LC/MS/MS.				
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.	-
	analysis was performed by ICP-OES.				
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.	-
·	analysis was performed by ICP-OES.				
Chlorofluorocarbons (CFCs)					
CFC-13	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-111	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	_
	analysis was performed by GC/MS.				
CFC-112	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-211	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-212	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-213	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-214	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-215	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-216	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-217	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-12	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-11	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
CFC-115	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-114	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
CFC-113	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
Hydrochlorofluorocarbons (HC	CFCs)				
HCFC-21	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-22	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-31	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-121	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-122	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-123	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-124	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-131	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-142b	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-221	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-222	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-223	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-224	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-225ca	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
HCFC-225cb	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-226	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-231	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-232	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-233	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-234	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-235	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-241	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-242	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-244	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-251	With reference to US EPA 5021A: 2014,	mg/kg	mg/kg 1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-252	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-261	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-262	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-271	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-141b	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.	_			
HCFC-243	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HCFC-253	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
HCFC-141	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HCFC-142	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HCFC-151	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HCFC-225	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HCFC-133	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HCFC-132	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Halons					
Halon-1211 (CAS No.: 353-59-3)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Halon-1301 (CAS No.: 75-63-8)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Halon-2402 (CAS No.: 124-73-2)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Halon-1202 (CAS No.: 75-61-6)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Methyl Bromide (CAS No.: 74-83-9)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Hydrobromofluorocarbons (HBFCs)					
HBFC-271B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-262B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-261B2	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-253B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-252B2	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-244B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
HBFC-243B2	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-242B3	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-241B4	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-235B1	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-234B2	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-233B3	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-232B4	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-231B5	With reference to US EPA 5021A: 2014, mg/kg	1	n.d.	-	
	analysis was performed by GC/MS.				
HBFC-226B1	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-225B2	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-224B3	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-223B4	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-222B5	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-221B6	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-151B1	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-142B1	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-141B2	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
HBFC-133B1	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				

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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
HBFC-132B2	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-131B3	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-124B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-123B2	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HBFC-122B3	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HBFC-121B4	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HBFC-31B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-22B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-21B2	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HBFC-251B1	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Hydrofluorocarbon (HFCs)					
HFC-23	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-32	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-41	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-43-10mee	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-125	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-134	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-134a	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
HFC-143	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-143a	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	ı
HFC-152a	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HFC-227ea	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-236fa	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-245ca	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HFC-245fa	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	1
HFC-365mfc	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-236ea	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-236cb	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-161	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
HFC-152	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Perfluorocarbon (PFCs)					
2-Perfluoromethylpentane (CAS No.: 355-04-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	ı
Decafluorobutane (CAS No.: 355-25-9)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Freon-14 (CAS No.: 75-73-0)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Fluorocarbon 116 (CAS No.: 76-16-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Freon 218 (CAS No.: 76-19-7)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Freon C318 (CAS No.: 115-25-3)	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
Perfluorohexane (CAS No.: 355-42-0)	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	=
	analysis was performed by GC/MS.				
Perfluoro-n-pentane (CAS No.: 678-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
26-2)	analysis was performed by GC/MS.				
Perfluorodecalin (CAS No.: 306-94-5)	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
Chlorinate hydrocarbon (CHCs)					
1,1-Dichloropropene (CAS No.: 563-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
58-6)	analysis was performed by GC/MS.				
1,2-Dichloroethane (CAS No.: 107-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
06-2)	analysis was performed by GC/MS.				
2,2-Dichloropropane (CAS No.: 594-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
20-7)	analysis was performed by GC/MS.				
Carbon tetrachloride (CAS No.: 56-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
23-5)	analysis was performed by GC/MS.				
Chloromethane (CAS No.: 74-87-3)	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
cis-1,2-Dichloroethene (CAS No.:	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
156-59-2)	analysis was performed by GC/MS.				
cis-1,3-Dichloropropene (CAS No.:	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
10061-01-5)	analysis was performed by GC/MS.				
Hexachlorobutadiene (CAS No.: 87-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	1
68-3)	analysis was performed by GC/MS.				
trans-1,2-Dichloroethene (CAS No.:	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
156-60-5)	analysis was performed by GC/MS.				
	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
10061-02-6)	analysis was performed by GC/MS.				
Dichloromethane (CAS No.: 75-09-2)	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
	analysis was performed by GC/MS.				
1,2-Dichloropropane (CAS No.: 78-	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
87-5)	analysis was performed by GC/MS.				
1,1,1,2-Tetrachloroethane (CAS No.:	With reference to US EPA 5021A: 2014,	mg/kg	1	n.d.	-
630-20-6)	analysis was performed by GC/MS.				

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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
1,1,1-Trichloroethane (CAS No.: 71-55-6)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,1,2-Trichloroethane (CAS No.: 79- 00-5)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,1-Dichloroethylene (CAS No.: 75- 35-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,1-Dichloroethane (CAS No.: 75-34-3)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Chloroethane (CAS No.: 75-00-3)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Tetrachloroethene (CAS No.: 127-18-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Trichloroethylene (CAS No.: 79-01-6)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,3-Dichloropropane (CAS No.: 142-28-9)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Chloroform (CAS No.: 67-66-3)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
1,2,3-Trichloropropane (CAS No.: 96-18-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Bromochloromethan (CAS No.: 74-97-5)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
Sulfur hexafluoride (CAS No.: 2551-62-4)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-
2-benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320) (CAS No.: 3846-71-7)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) Radioactive substances	With reference to IEC 62321: 2008, analysis was performed by GC/MS. Geiger counter.	mg/kg μSv/hour	5	n.d. Negative*	-

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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
Medium Chain Chlorinated Paraffins(C14-C17) (MCCP) (CAS No.: 85535-85-9)	With reference to ISO 18219-2: 2021, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Selenium (Se) (CAS No.: 7782-49-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Bismuth (Bi) (CAS No.: 7440-69-9)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Monomethyl dibromodiphenyl methane (DBBT) (CAS No.: 99688- 47-8)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	1
Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibutyl tin (DBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Dioctyl tin (DOT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Tin (Sn) (CAS No.: 7440-31-5)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. **= Qualitative analysis (No Unit)
- 6. Negative = Undetectable; Positive = Detectable
- 7. Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table: https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

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- 9. Negative*/Positive*: The test result of Geiger counter is from comparison between test outcome and environment background. In general, there is little radiation dose existing in environment. (Radiation dose from environment background usually less than or equal to 0.2µSv/hr)

 The test result less than environment background was shown as Negative*; the result greater than environment background was shown as Positive*.
- 10. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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PFAS Remark:

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

Group Name	Substance Name	CAS No.
	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2)	70225-14-8
PFOS, its salts & derivatives	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOSN(C_2H_5) ₄)	56773-42-3
	N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1- sulfonate (PFOS-DDA)	251099-16-8
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS- $N(C_4H_9)_4$)	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6
	Perfluorooctanesulfonate (anion)	45298-90-6
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) $(PFOS-N(C_2H_5)_3)$	54439-46-2

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Group Name	Substance Name	CAS No.
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) (PFOS-N(CH ₃) ₄)	56773-44-5
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_3H_7) ₃ (C_5H_{11}))	56773-56-9
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_4H_9) ₃ (CH_3))	124472-68-0
	lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	213740-80-8
PFOS, its salts & derivatives	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	258341-99-0
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1)	773895-92-4
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C ₄ H ₉) ₄))	2185049-59-4
	Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
	Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
	Perfluorooctanoic acid (PFOA)	335-67-1
PFOA, its salts & derivatives	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Proa, its saits & derivatives	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3

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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Group Name	Substance Name	CAS No.
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3 ⁺))	68141-02-6
	Pentadecafluorooctanoic acidpiperazine (2/1)PFOA- $NH(C_4H_{10}N)$	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
PFOA, its salts & derivatives	Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂)	98065-31-7
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA- C_2H_7N)	1376936-03-6
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA- C_5H_5N)	95658-47-2
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N)	927835-01-6
	Pentadecafluorooctanoyl chloride (PFOA-CI)	335-64-8

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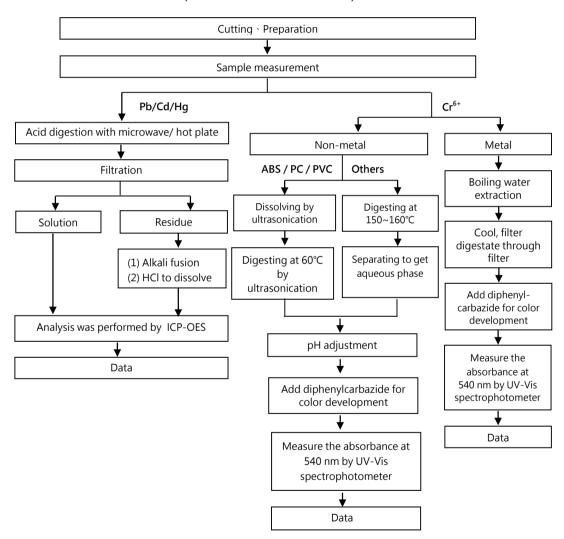
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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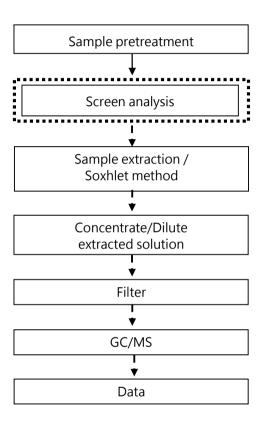


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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - PBBs / PBDEs

First testing process _____
Optional screen process ____
Confirmation process ____



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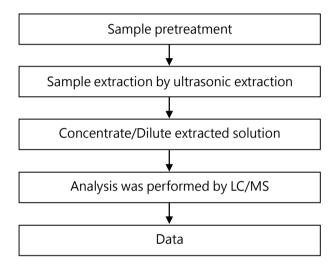
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - TBBP-A



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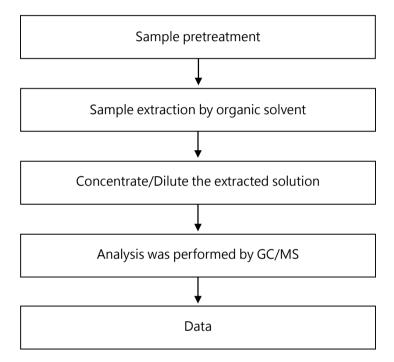


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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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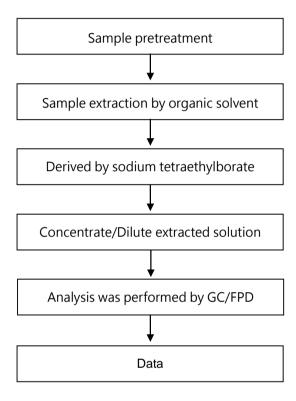
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - Organic-Tin



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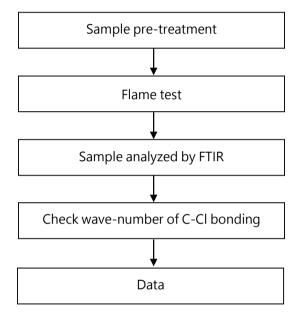
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analysis flow chart - PVC



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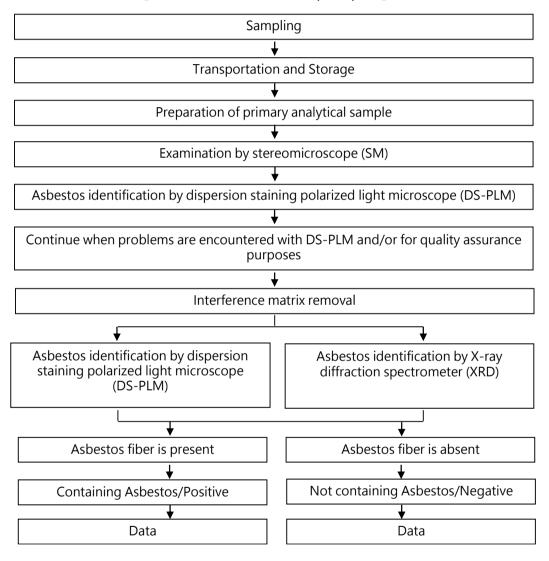
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analysis flow chart for determination of Asbestos 【Reference method: EPA 600/R-93/116】



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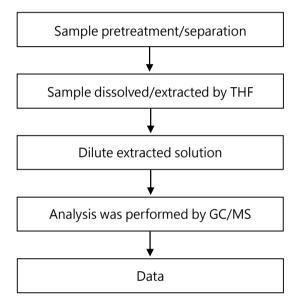


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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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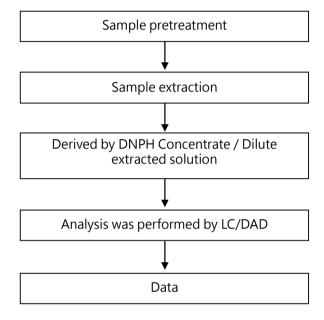
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - Formaldehyde



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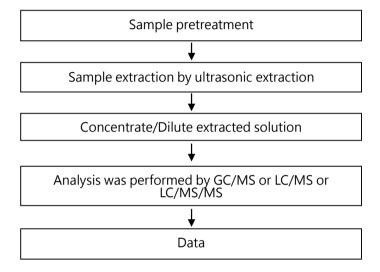
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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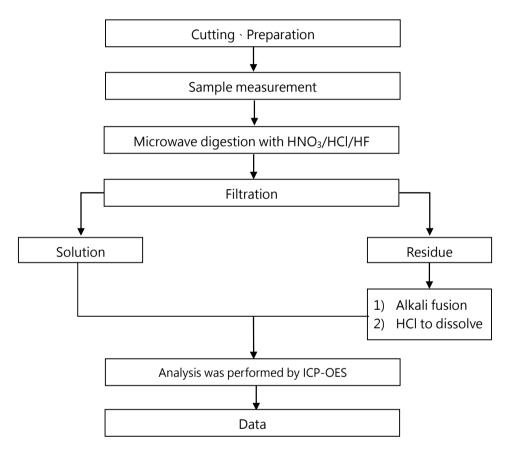
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051A \ US EPA 3052】



^{*} US EPA 3051A method does not add HF.

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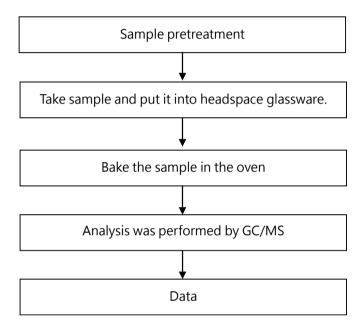


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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart of volatile organic compounds (VOCs)

【Reference method: US EPA 5021A】



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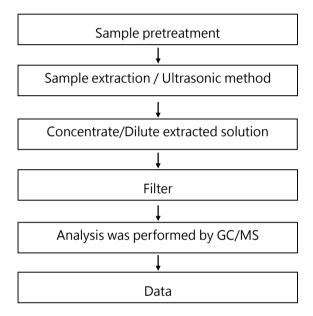
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - HBCDD



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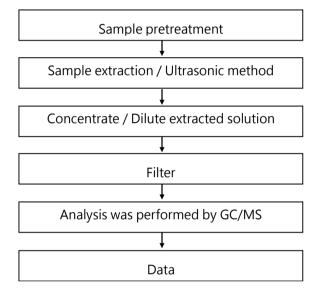
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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

Analytical flow chart - Organic phosphorus compounds



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MITSUBISHI GAS CHEMICAL CO., INC. ELECTRONICS MATERIAL DIVISION 5-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8324, JAPAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR25A05205



** End of Report **

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