

# Test Report

Report No.:PTC18071608102C-EN02

Date:Jul. 26, 2018

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**Applicant:** CAR PARTS DESIGN TRADING CO., LTD.

**Address:** 21/F, Tai Yau Building, 181 Johnston Road, Wanchai, HongKong

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** KODAK Smart Phone Holder

**Style No.:** PH200, PH201, PH202, PH203, PH204, PH205, PH206, PH207, PH208,  
PH209, PH210, PH211, PH212, PH213,

**Order No.:** PTC180716-081

**Manufacturer:** RITS ELECTRONICS(SHENZHEN)CO., LTD.

**Address:** BLD F, ChengJian Industrial Zone, No. 1 Lingxia Road FengHuang Community,  
Fuyong District, BaoAn Zone, ShenZhen City, GuangDong, China

**Sample Received Date:** Jul. 23, 2018

**Completed Date:** Jul. 26, 2018

**Test Requested and Conclusion(s):** Please refer to next page(s).

Signed for and on Behalf of PTC



Raul Cheng / P & C Department General Manager  
DongGuan Precise Testing and Certification Corp. Ltd.

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**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	RoHS Directive 2011/65/EU and its subsequent amendments - Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr <sup>6+</sup> ), PBBs and PBDEs, Phthalates(DBP, BBP,DEHP,DIBP)	PASS
2	Submitted sample	Based on the list published byEuropean Chemicals Agency (ECHA) public consultation, regarding Regulation (EC) No. 1907/2006 concerning the REACH - 184 Substances of Very High Concern (SVHC)	Lowerthan 0.1%

**Test Result(s):** Please refer to next page(s).



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**Test Result(s):**

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr<sup>6+</sup>)/PBBs/PBDEs

Test Method: IEC62321-3-1: 2013, IEC62321-5: 2013, IEC62321-4: 2013, IEC 62321-7-1:2015, IEC 62321-7-2: 2017,analyzed by EDXRF &AAS &ICP-AES & GC-MS &UV-Vis.

No.	Material Description	EDXRF Result					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	Black plastic(shell)	BL	BL	BL	BL	BL	--	PASS
2	Blue plastic(shell)	BL	BL	BL	BL	BL	--	PASS
3	Bright black plastic (shell)	BL	BL	BL	BL	BL	--	PASS
4	Silvery metal with black plating(screw)	BL	BL	BL	BL	--	--	PASS
5	Silvery metal (spring)	BL	BL	BL	BL	--	--	PASS
6	Transparent body with silvery metal edge(fuse)	157	BL	BL	BL	--	--	PASS
7	Silvery metal(terminal)	BL	BL	BL	BL	--	--	PASS
8	Silvery metal(shrapnel)	BL	BL	BL	BL	--	--	PASS
9	Silvery solder(shrapnel)	BL	BL	BL	BL	--	--	PASS
10	Black plastic (wire jacket)	BL	BL	BL	BL	BL	--	PASS
11	Silvery metal(wire)	BL	BL	BL	BL	--	--	PASS
12	Bright black plastic (front shell)	BL	BL	BL	BL	BL	--	PASS
13	Silvery metal(nut)	BL	BL	BL	BL	--	--	PASS
14	Silvery metal(plate)	BL	BL	BL	BL	--	--	PASS
15	Silvery solder(plate)	BL	BL	BL	BL	--	--	PASS
16	Red plastic(wire jacket)	BL	BL	BL	BL	BL	--	PASS
17	Transparent plastic (sleeve)	BL	BL	BL	BL	BL	--	PASS
18	Silvery metal (inner terminal)	BL	BL	BL	BL	--	--	PASS
19	Coppery metal(wire)	BL	BL	BL	BL	--	--	PASS

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## Test Result(s):

20	Silvery metal(cylinder)	BL	BL	BL	BL	--	--	PASS
21	White PCB(inner PCB)	BL	BL	BL	BL	IN	PBBs: N.D. PBDEs: N.D.	PASS
22	Silvery solder (white PCB)	BL	BL	BL	BL	--	--	PASS
23	Transparent body(LED)	BL	BL	BL	BL	BL	--	PASS
24	Green PCB(inner PCB)	BL	BL	BL	BL	IN	PBBs: N.D. PBDEs: N.D.	PASS
25	Silvery metal(USB shell)	BL	BL	BL	BL	--	--	PASS
26	Golden metal(pin)	BL	BL	BL	BL	--	--	PASS
27	Orange plastic(pin fixer)	BL	BL	BL	BL	IN	PBBs: N.D. PBDEs: N.D.	PASS
28	Black plastic(pin fixer)	BL	BL	BL	BL	IN	PBBs: N.D. PBDEs: N.D.	PASS
29	Green plastic with golden printing (capacitor sleeve)	BL	BL	BL	BL	BL	--	PASS
30	Silvery metal (capacitor shell)	BL	BL	BL	BL	--	--	PASS
31	Black rubber(capacitor)	BL	BL	BL	BL	BL	--	PASS
32	Transparent soft plastic(capacitor)	BL	BL	BL	BL	BL	--	PASS
33	Brown paper with liquid(capacitor film)	BL	BL	BL	BL	BL	--	PASS
34	Silvery metal (capacitor foil)	BL	BL	BL	BL	--	--	PASS
35	Dull silvery metal (capacitor foil)	BL	BL	BL	BL	--	--	PASS
36	Silvery metal (capacitor connector)	BL	BL	BL	BL	--	--	PASS
37	Silvery metal (capacitor pin)	BL	BL	BL	BL	--	--	PASS
38	Golden metal(coil)	BL	BL	BL	BL	--	--	PASS

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## Test Result(s):

39	Black body(inductor)	BL	BL	BL	BL	BL	--	PASS
40	Black body(IC)	BL	BL	BL	BL	BL	--	PASS
41	Black body(audion)	BL	BL	BL	BL	BL	--	PASS
42	Black/white body ( chip resistor )	BL	BL	BL	BL	BL	--	PASS
43	Brown body (chip capacitor)	BL	BL	BL	BL	BL	--	PASS
44	Black body(diode)	BL	BL	BL	BL	BL	--	PASS
45	Silvery solder (inner PCB)	BL	BL	BL	BL	--	--	PASS

- Note:**
1. mg/kg = milligram per kilogram(ppm).
  2. N.D. = Not Detected (<RL).
  3. Negative = Absence of Cr<sup>6+</sup>.
  4. Positive = Presence of Cr<sup>6+</sup>: the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.
  5. The result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
  6. "E"= This material is tin-lead solder or metal alloy proved by client, lead in tin-lead solder or copper alloy is exempted on the requirements of RoHS directive(EU Directive 2011/65/EU).

## Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤ OL	BL≤(70-3σ)<X<(130+3σ)≤ OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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## Chemical Testing - Detection Limit & 2011/65/EU Limit:

No	Name of Chemicals	Detection Limit (mg/kg)	2011/65/EU Limit (mg/kg)
1	Lead (Pb)	5	1000
2	Cadmium (Cd)	5	100
3	Mercury (Hg)	5	1000
4	Chromium VI (Cr VI)	Non-metal: 10 Metal: Negative	Non-metal: 1000 Metal: Negative
5	Polybromobiphenyls (PBBs) -Bromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromobiphenyl (NonaBB) -Decabromobiphenyl (DecaBB)	Each 5	Sum: 1 000
6	Polybromodiphenyl ethers (PBDEs) -Bromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	Each 5	Sum: 1 000

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**Test Result(s):**

ROHS - Phthalates DIBP, DBP, BBP, DEHP

Method:IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	50	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS
17	N.D.	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
27	N.D.	N.D.	N.D.	N.D.	PASS
28	N.D.	N.D.	N.D.	N.D.	PASS
29	N.D.	N.D.	N.D.	N.D.	PASS
31	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	PASS
33	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (<RL).
  3. RL=Reporting Limit.

Remark: The test result(s) is/are reference(s) to the report PTC18071608102C-EN01

# Test Report

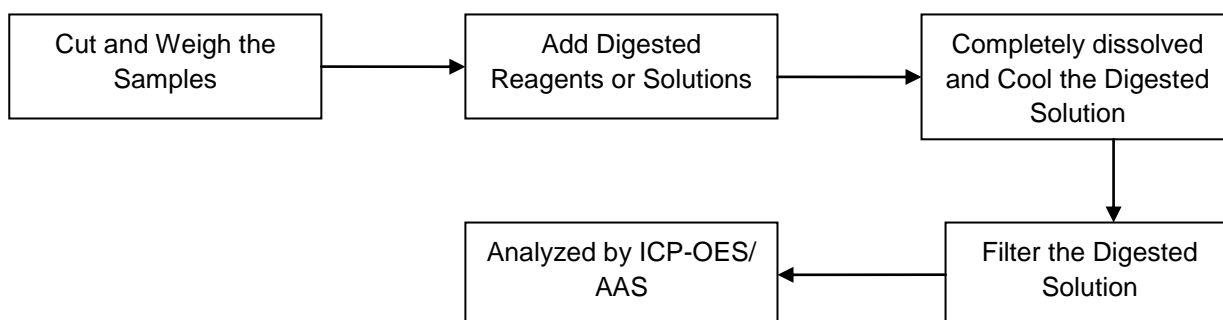
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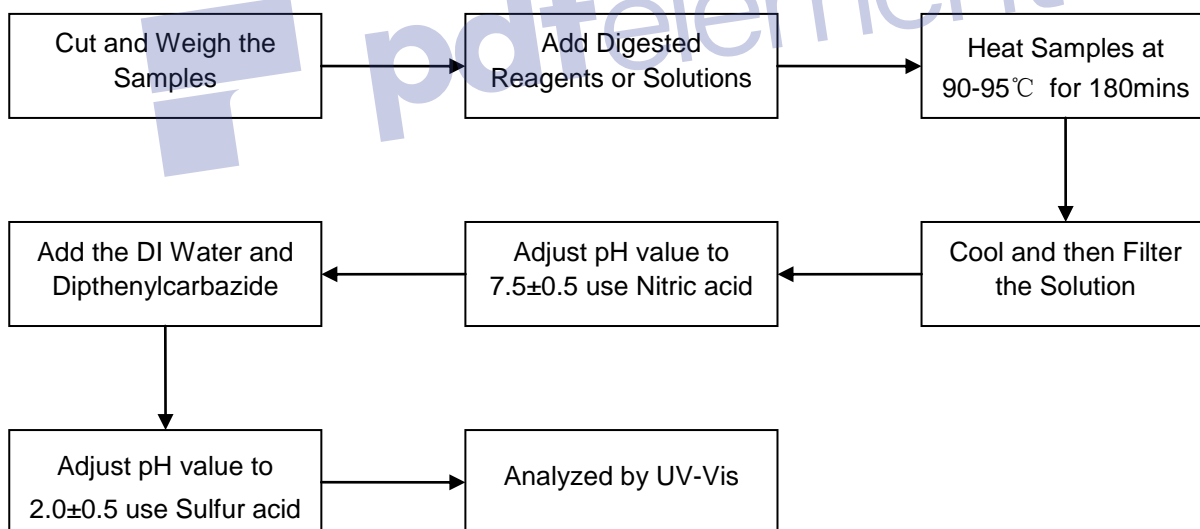
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## Test Process Flow:

### 1. Lead, Cadmium, Mercury



### 2. Hexavalent Chromium (Non-metal)



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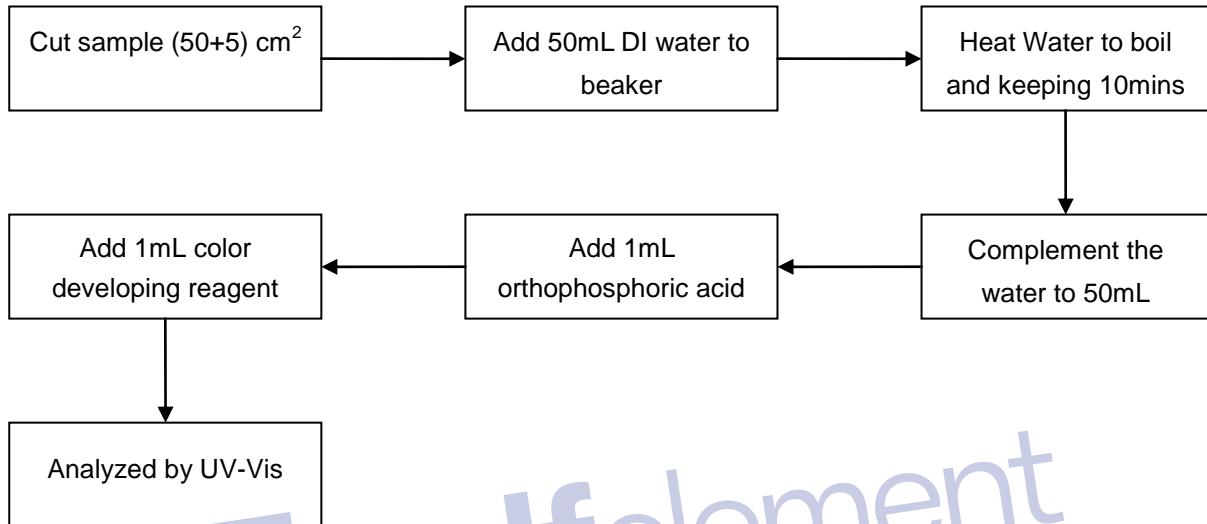
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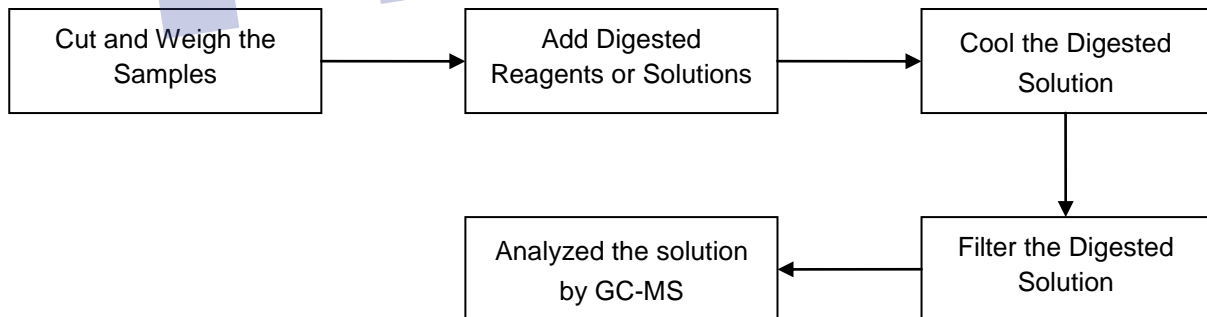
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## Hexavalent Chromium (Metal)



## 3. PBBs & PBDEs, Phthalates



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## Photo(s) of Sample:



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**Applicant:** CAR PARTS DESIGN TRADING CO., LTD.

**Address:** 21/F, Tai Yau Building, 181 Johnston Road, Wanchai, HongKong

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** KODAK Smart Phone Holder  
**Style No.:** PH200, PH201, PH202, PH203, PH204, PH205, PH206, PH207, PH208, PH209, PH210, PH211, PH212, PH213,  
**Order No.:** PTC180716-081  
**Manufacturer:** RITS ELECTRONICS(SHENZHEN)CO., LTD.  
**Address:** BLD F, ChengJian Industrial Zone, No. 1 Lingxia Road FengHuang Community, Fuyong District, BaoAn Zone, ShenZhen City, GuangDong, China  
**Sample Received Date:** Jul. 23, 2018  
**Completed Date:** Jul. 26, 2018

## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	Based on the list published byEuropean Chemicals Agency (ECHA) public consultation, regarding Regulation (EC) No. 1907/2006 concerning the REACH - 191 Substances of Very High Concern (SVHC)	Lowerthan 0.1%

**Substances List:** Please refer to next page(s).

**Test result(s):** Please refer to next page(s).

Signed for and on Behalf of PTC



Raul Cheng / P & C Department General Manager  
DongGuan Precise Testing and Certification Corp. Ltd.

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**Test result(s): (Substances in the Candidate List of SVHC)**

Batch	Substance Name	CAS No.	Concentration(%)	RL (%)
			1+2	
--	All tested SVHC in candidate list	--	N.D.	0.005

**Appendix:**

Full list of tested SVHC 191 items

Batch	No.	Substance Name	CAS No.	Equipment(s)	RL (%)
I	1	Alkanes, C10-13, chloro (ShortChainChlorinated Paraffins)	85535-84-8	GC-MS	0.005
I	2	Anthracene	120-12-7	GC-MS	0.005
I	3	Benzyl butyl phthalate (BBP)	85-68-7	GC-MS	0.005
I	4	Bis[2-ethyl(hexyl)phthalate] (DEHP)	117-81-7	GC-MS	0.005
I	5	Bis(tributyltin)oxide (TBTO)	56-35-9	GC-MS	0.005
I	6	Cobalt dichloride△	7646-79-9	ICP-AES /IC-ECD	0.005
I	7	Diarsenic pentaoxide△	1303-28-2	ICP-AES	0.005
I	8	Diarsenic trioxide△	1327-53-3	ICP-AES	0.005
I	9	Dibutyl phthalate (DBP)	84-74-2	GC-MS	0.005
I	10	4, 4'- Diaminodiphenylmethane	101-77-9	GC-MS	0.005
I	11	5-tert-butyl-2,4,6-trinitro-m- xylene (Musk xylene)	81-15-2	GC-MS	0.005
I	12	Hexabromocyclododecane (HBCDD) and diastereoisomers (α-HBCDD, β-HBCDD, γ- HBCDD)	25637-99-4, 3194-55-6 (134237-50-6 , 134237-51-7, 134237-52-8)	GC-MS	0.005
I	13	Lead hydrogen arsenate△	7784-40-9	ICP-AES	0.005
I	14	Sodium dichromate△	10588-01-9, 7789-12-0	ICP-AES / UV-Vis	0.005
I	15	Triethyl arsenate△	15606-95-8	ICP-AES	0.005
II	16	Anthracene oil	90640-80-5	GC-MS	0.005

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II	17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	GC-MS	0.005
II	18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	GC-MS	0.005
II	19	Anthracene oil, anthracene-low	90640-82-7	GC-MS	0.005
II	20	Anthracene oil, anthracene paste	90640-81-6	GC-MS	0.005
II	21	Coal tar pitch, high temperature	65996-93-2	GC-MS	0.005
II	22	Acrylamide	79-06-1	GC-MS	0.005
II	23	2,4-Dinitrotoluene	121-14-2	GC-MS	0.005
II	24	Diisobutyl phthalate(DIBP)	84-69-5	GC-MS	0.005
II	25	Lead chromate△	7758-97-6	ICP-AES / UV-Vis	0.005
II	26	Lead chromate molybdate Sulphate red (C.I. Pigment Red 104)△	12656-85-8	ICP-AES / UV-Vis	0.005
II	27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)△	1344-37-2	ICP-AES / UV-Vis	0.005
II	28	Tris(2-chloroethyl) phosphate	115-96-8	GC-MS	0.005
III	29	Trichloroethylene	79-01-6	GC-MS	0.005
III	30	Boric acid△	10043-35-3/ 11113-50-1	ICP-AES	0.005
III	31	Disodium tetraborate, anhydrous△	1330-43-4 12179-04-3 1303-96-4	ICP-AES	0.005
III	32	Tetraboron disodium heptaoxide, hydrate△	12267-73-1	ICP-AES	0.005
III	33	Sodium chromate△	7775-11-3	ICP-AES / UV-Vis	0.005
III	34	Potassium chromate△	7789-00-6	ICP-AES / UV-Vis	0.005
III	35	Ammonium dichromate△	7789-09-5	ICP-AES / UV-Vis	0.005
III	36	Potassium dichromate△	7778-50-9	ICP-AES / UV-Vis	0.005
IV	37	Cobalt(II) sulphate△	10124-43-3	ICP-AES	0.005
IV	38	Cobalt(II) dinitrate△	10141-05-6	ICP-AES	0.005

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IV	39	Cobalt(II) carbonate△	513-79-1	ICP-AES	0.005
IV	40	Cobalt(II) diacetate△	71-48-7	ICP-AES	0.005
IV	41	2-Methoxyethanol	109-86-4	GC-MS	0.005
IV	42	2-Ethoxyethanol	110-80-5	GC-MS	0.005
IV	43	Chromium trioxide△	1333-82-0	ICP-AES / UV-Vis	0.005
IV	44	Acids generated from chromium trioxide and their oligomers: Chromium acid△ Dichromium acid△ Oligomers of chromic acid and dichromic acid△	-- 7738-94-5 13530-68-2 --	ICP-AES / UV-Vis	0.005
V	45	2-ethoxyethylacetate	111-15-9	GC-MS	0.005
V	46	1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4	GC-MS	0.005
V	47	Hydrazine	7803-57-8, 302-01-2	UV-Vis	0.005
V	48	1-methyl-2-pyrrolidone	872-50-4	GC-MS	0.005
V	49	1,2,3-trichloropropane	96-18-4	GC-MS	0.005
V	50	1, 2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	GC-MS	0.005
V	51	Strontium chromate△	7789-06-2	ICP-AES / UV-Vis	0.005
VI	52	Dichromium tris(chromate)△	24613-89-6	ICP-AES / UV-Vis	0.005
VI	53	Potassium hydroxyoctaoxodizincatedi-chromate△	11103-86-9	ICP-AES	0.005
VI	54	Pentazinc chromate octahydroxide△	49663-84-5	ICP-AES / UV-Vis	0.005
VI	55	Aluminosilicate, Refractory Ceramic Fibres ( RCF)△	--	ICP-AES	0.005
VI	56	Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF)△	--	ICP-AES	0.005
VI	57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	GC-MS	0.005
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	GC-MS	0.005
VI	59	2-Methoxyaniline; o-Anisidine	90-04-0	GC-MS	0.005

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VI	60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	GC-MS	0.005
VI	61	1,2-Dichloroethane	107-06-2	GC-MS	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	GC-MS	0.005
VI	63	Arsenic acid $\Delta$	7778-39-4	ICP-AES	0.005
VI	64	Calcium arsenate $\Delta$	7778-44-1	ICP-AES	0.005
VI	65	Trilead diarsenate $\Delta$	3687-31-8	ICP-AES	0.005
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	GC-MS	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	GC-MS	0.005
VI	68	Phenolphthalein	77-09-8	GC-MS	0.005
VI	69	Lead azide Lead diazide $\Delta$	13424-46-9	ICP-AES	0.005
VI	70	Lead styphnate $\Delta$	15245-44-0	ICP-AES	0.005
VI	71	Lead dipicrate $\Delta$	6477-64-1	ICP-AES	0.005
VII	72	Methoxyethoxy ethane (TEGDME; triglyme)	112-49-2	GC-MS	0.005
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)	110-71-4	GC-MS	0.005
VII	74	Diboron trioxide $\Delta$	1303-86-2	ICP-AES	0.005
VII	75	Formamide	75-12-7	GC-MS	0.005
VII	76	Lead(II) bis(methanesulfonate) $\Delta$	17570-76-2	ICP-AES	0.005
VII	77	1,3,5-tris (oxiranylmethyl) -1,3,5 -triazine-2,4,6 (1H,3H,5H)-trione (TGIC)	2451-62-9	GC-MS	0.005
VII	78	1,3,5-tris [(2S and 2R)-2,3 -epoxypropyl] -1,3,5-triazine-2,4,6- (1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	GC-MS	0.005
VII	79	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	GC-MS	0.005
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	GC-MS	0.005
VII	81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]m ethylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	HPLC-M S/MS	0.005
VII	82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]	548-62-9	HPLC-M	0.005

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		cyclohexa -2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)		S/MS	
VII	83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	GC-MS	0.005
VII	84	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1 -methanol (C.I. Solvent Blue 4)	6786-83-0	HPLC-M S/MS	0.005
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	GC-MS	0.005
VIII	86	Pentacosafuorotridecanoic acid	72629-94-8	HPLC-M S/MS	0.005
VIII	87	Tricosafuorododecanoic acid	307-55-1	HPLC-M S/MS	0.005
VIII	88	Henicosafuoroundecanoic acid	2058-94-8	HPLC-M S/MS	0.005
VIII	89	Heptacosafuorotetradecanoic acid	376-06-7	HPLC-M S/MS	0.005
VIII	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	GC-MS	0.005
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	GC-MS	0.005
VIII	92	Hexahydromethylphthalic anhydride [1],Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4][The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	GC-MS	0.005
VIII	93	4-Nonylphenol, branched and linear[substances with a linear and/or branched alkyl chain with a carbon	--	GC-MS	0.005

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		number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]			
VIII	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	GC-MS	0.005
VIII	95	Methoxyacetic acid	625-45-6	GC-MS	0.005
VIII	96	N,N-dimethylformamide	68-12-2	GC-MS	0.005
VIII	97	Dibutyltin dichloride (DBTC)	683-18-1	GC-MS	0.005
VIII	98	Lead monoxide (Lead oxide)△	1317-36-8	ICP-AES	0.005
VIII	99	Orange lead (Lead tetroxide)△	1314-41-6	ICP-AES	0.005
VIII	100	Lead bis(tetrafluoroborate)△	13814-96-5	ICP-AES	0.005
VIII	101	Trilead bis(carbonate) dihydroxide△	1319-46-6	ICP-AES	0.005
VIII	102	Lead titanium trioxide△	12060-00-3	ICP-AES	0.005
VIII	103	Lead titanium zirconium oxide△	12626-81-2	ICP-AES	0.005
VIII	104	Silicic acid, lead salt△	11120-22-2	ICP-AES	0.005
VIII	105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]△	68784-75-8	ICP-AES	0.005
VIII	106	1-bromopropane (n-propyl bromide)	106-94-5	GC	0.005
VIII	107	Methyloxirane (Propylene oxide)	75-56-9	GC	0.005
VIII	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	GC-MS	0.005
VIII	109	Diisopentylphthalate (DIPP)	605-50-5	GC-MS	0.005
VIII	110	N-pentyl-isopentylphthalate	776297-69-9	GC-MS	0.005
VIII	111	1,2-diethoxyethane	629-14-1	GC-MS	0.005
VIII	112	Acetic acid, lead salt, basic△	51404-69-4	ICP-AES	0.005
VIII	113	Lead oxide sulfate△	12036-76-9	ICP-AES	0.005
VIII	114	[Phthalato(2-)]dioxotrilead△	69011-06-9	ICP-AES	0.005

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VIII	115	Dioxobis(stearato)trilead△	12578-12-0	ICP-AES	0.005
VIII	116	Fatty acids, C16-18, lead salts△	91031-62-8	ICP-AES	0.005
VIII	117	Lead cyanamate△	20837-86-9	ICP-AES	0.005
VIII	118	Lead dinitrate△	10099-74-8	ICP-AES	0.005
VIII	119	Pentalead tetraoxide sulphate△	12065-90-6	ICP-AES	0.005
VIII	120	Pyrochlore, antimony lead yellow△	8012-00-8	ICP-AES	0.005
VIII	121	Sulfurous acid, lead salt, dibasic△	62229-08-7	ICP-AES	0.005
VIII	122	Tetraethyl lead△	78-00-2	ICP-AES	0.005
VIII	123	Tetralead trioxide sulphate△	12202-17-4	ICP-AES	0.005
VIII	124	Trilead dioxide phosphonate△	12141-20-7	ICP-AES	0.005
VIII	125	Furan	110-00-9	GC	0.005
VIII	126	Diethyl sulphate	64-67-5	GC	0.005
VIII	127	Dimethyl sulphate	77-78-1	GC	0.005
VIII	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	GC-MS	0.005
VIII	129	Dinoseb (6-sec-butyl-2,4 -dinitrophenol)	88-85-7	GC-MS	0.005
VIII	130	4,4'-methylenedi-o-toluidine	838-88-0	GC-MS	0.005
VIII	131	4,4'-oxydianiline and its salts	101-80-4	GC-MS	0.005
VIII	132	4-aminoazobenzene	60-09-3	GC-MS	0.005
VIII	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	GC-MS	0.005
VIII	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	GC-MS	0.005
VIII	135	Biphenyl-4-ylamine	92-67-1	GC-MS	0.005
VIII	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	GC-MS	0.005
VIII	137	o-toluidine	95-53-4	GC-MS	0.005
VIII	138	N-methylacetamide	79-16-3	GC-MS	0.005
IX	139	Cadmium	7440-43-9	ICP-AES	0.005
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	HPLC-M S/MS	0.005
IX	141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	HPLC-M S/MS	0.005
IX	142	Dipentyl phthalate (DPP)	131-18-0	GC-MS	0.005
IX	143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in	--	GC-MS	0.005

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		<i>position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>			
IX	144	Cadmium oxide $\Delta$	1306-19-0	ICP-AES	0.005
X	145	Cadmium sulphide $\Delta$	1306-23-6	ICP-AES	0.005
X	146	Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	HPLC-M S/MS	0.005
X	147	Dihexyl phthalate	84-75-3	GC-MS	0.005
X	148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	GC-MS	0.005
X	149	Trixylyl phosphate	25155-23-1	GC-MS	0.005
X	150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red28)	573-58-0	HPLC-M S/MS	0.005
X	151	Lead di(acetate) $\Delta$	301-04-2	ICP-AES	0.005
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	GC-MS	0.005
XI	153	Cadmium chloride $\Delta$	10108-64-2	ICP-AES	0.005
XI	154	Sodium perborate $\Delta$ ; perboric acid, sodium salt $\Delta$	--	ICP-AES	0.005
XI	155	Sodium peroxometaborate $\Delta$	7632-04-4	ICP-AES	0.005
XII	156	Cadmium fluoride $\Delta$	7790-79-6	ICP-AES	0.005
XII	157	Cadmium sulphate $\Delta$	10124-36-4; 31119-53-6	ICP-AES	0.005
XII	158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	GC-MS	0.005
XII	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	GC-MS	0.005
XII	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	GC-MS	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and	--	GC-MS	0.005

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		2-ethylhexyl-10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)			
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5 68648-93-1	GC-MS	0.005
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	--	HPLC-M S/MS	0.005
XIV	164	1,3-propanesultone	1120-71-4	GC-MS	0.005
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	GC-MS	0.005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	GC-MS	0.005
XIV	167	Nitrobenzene	98-95-3	GC-MS	0.005
XIV	168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts)	375-95-1 21049-39-8 4149-60-4	HPLC-M S/MS	0.005
XV	169	Benzo[d,e,f]chrysene	50-32-8	GCMS	0.005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	HPLC-M S/MS	0.005
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	HPLC-M S/MS	0.005
XVI	172	4-heptylphenol, branched and linear (4-HPbl)	--	GCMS	0.005
XVI	173	4-tert-pentylphenol (PTAP)	80-46-6	GCMS	0.005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	206-587-1 355-46-4	GCMS	0.005
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9 135821-74-8 135821-03-3	HPLC-M S/MS	0.005

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XVIII	176	Benz[a]anthracene	56-55-3	GCMS	0.005
XVIII	177	Cadmium nitrate	10325-94-7	ICP-OES	0.005
XVIII	178	Cadmium carbonate	513-78-0	ICP-OES	0.005
XVIII	179	Cadmium hydroxide	21041-95-2	ICP-OES	0.005
XVIII	180	Chrysene	218-01-9	GCMS	0.005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with≥0.1% w/w 4-heptylphenol, branched and linear]	-	GCMS	0.005
XVIII	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	GC	0.005
XVIII	183	Decamethylcyclopentasiloxane (D5)	541-02-6	GC	0.005
XVIII	184	DODECAMETHYLCYCLOHEXASILOXANE (D6)	540-97-6	GC	0.005
XVIII	185	Lead	7439-92-1	ICP-OES	0.005
XVIII	186	DISODIUM OCTABORATE TETRAHYDRATE	12008-41-2	ICP-OES	0.005
XVIII	187	1,12-BENZOPERYLENE	191-24-2	GC-MS	0.005
XVIII	188	Terphenyl, hydrogenated	61788-32-7	GC	0.005
XVIII	189	Ethylenediamine	107-15-3	GC	0.005
XVIII	190	Trimellitic Anhydride	552-30-7	HPLC	0.005
XVIII	191	Dicyclohexyl phthalate	84-61-7	GC-MS	0.005

**Note:**

- “Δ” = Determination was based on elemental analysis. The concentration was calculated based on assumption of worst-case.
- N.D. = Not Detected (< RL), RL = Report Limit.

**Test Material List**

The following materials apply only to the samples submitted for chemical testing.

Material No.	Description	Location
1	Metal material mixture	Metal parts
2	Non-metal material mixture	Non-metal parts

Remark: The test result is reference to the report PTC18062725101C--EN01

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## Remarks:

1. In accordance with Regulation (EC) No. 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, namely (a) the substance is present in those article in quantities totaling over one ton per producer or importer per year; and (b) the substance is present in those articles higher than 0.1% weight by weight (w/w).
2. Article 33 of Regulation (EC) No. 1907/2006 requires supplier of an article containing a substance meets the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration higher than 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.



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Tel: 86-769-38808222 Fax: 86-769-38826111 [http:// www.ptc-testing.com](http://www.ptc-testing.com)

# Test Report

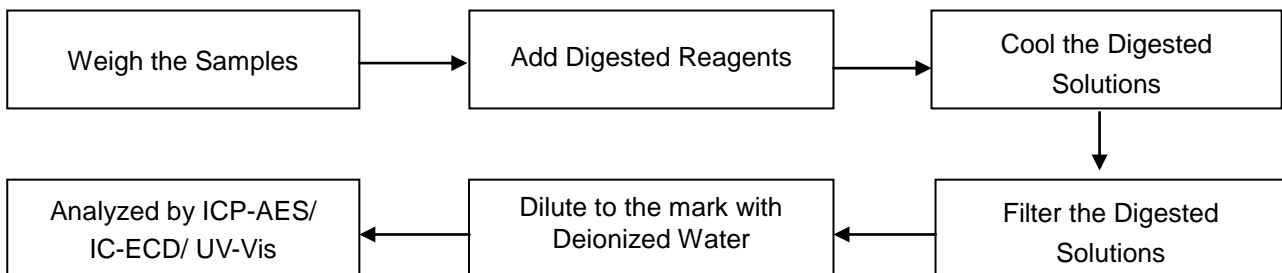
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## Test Process Flow:

1. Cobalt dichloride, Cobalt( II ) sulphate, Cobalt( II ) dinitrate, Cobalt( II ) carbonate, Cobalt( II ) diacetate, Diarsenic pentaoxide, Diarsenic trioxide, Lead hydrogen arsenate, Sodium dichromate, Triethyl arsenate, Aluminosilicate, Zirconia Aluminosilicate, Lead chromate, Lead chromate molybdate Sulphate red, Lead sulfochromate yellow, Boric acid, Disodium tetraborate, Tetraboron disodium heptaoxide, Sodium chromate, Potassium chromate, Ammonium dichromate, Potassium dichromate, Chromium trioxide, Chromium acid/Dichromium acid, Strontium chromate, Hydrazine, Dichromium tris(chromate), Potassium hydroxyoctaoxodizincatedi-chromate, Pentazinc chromate octahydroxide, Arsenic acid, Calcium arsenate, Trilead diarsenate, Lead azide Lead diazide, Lead styphnate, Lead dipicrate, Diboron trioxide, Lead(II) bis(methanesulfonate), Lead monoxide (Lead oxide), Orange lead (Lead tetroxide), Lead bis (tetrafluoroborate), Trilead bis(carbonate)dihydroxide, Lead titanium trioxide, Lead titanium zirconium oxide, Silicic acid, lead salt, Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>), barium salt (1:1), lead-doped, Acetic acid, lead salt, basic, Lead oxide sulfate, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead cyanidate, Lead dinitrate, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Sulfurous acid, lead salt, dibasic, Tetraethyl lead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium, Cadmium oxide, Cadmium sulphide, Lead di(acetate) , Cadmium chloride, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Cadmium fluoride, Cadmium sulphate, Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide



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# Test Report

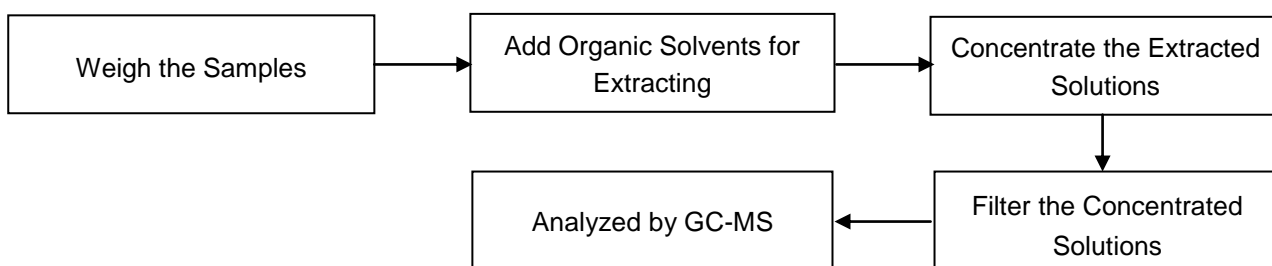
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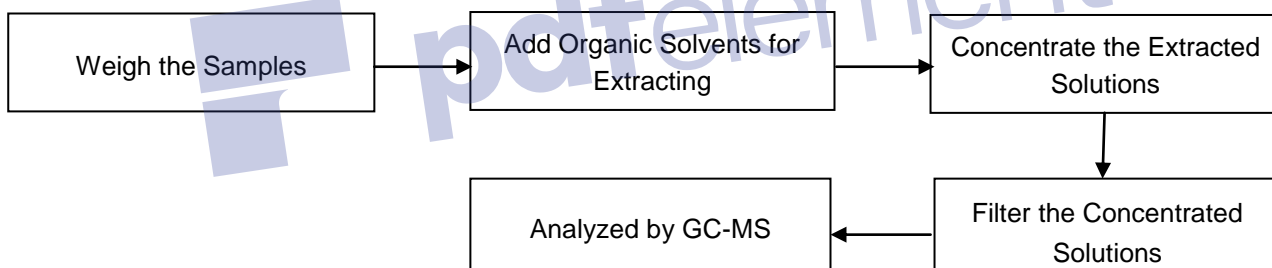
## Test Process Flow:

2. Alkanes, C10-13, chloro(Short chain chlorinated paraffins),Trichloroethylene,2-Methoxyethanol, 2-Ethoxyethanol, Methoxyethoxy ethane (TEGDME; triglyme), 1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME),DecaBDE

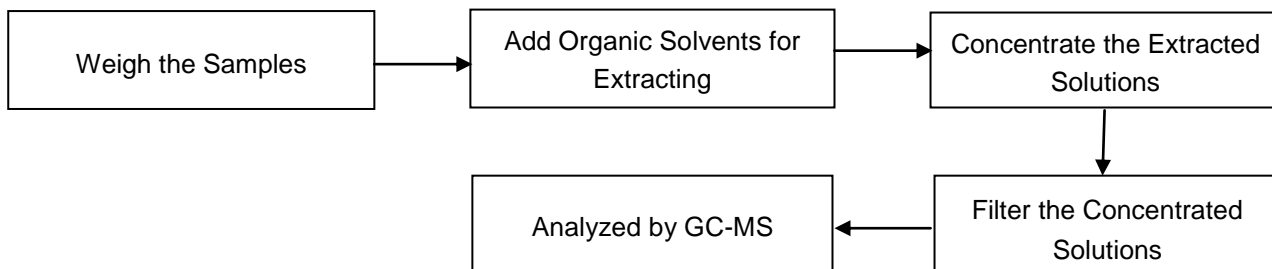


## Test Process Flow (Continued):

3. Anthracene, Anthracene oil, Coal tar pitch, Benzo[d,e,f]chrysene, Benz[a]anthracene



4. Benzyl butyl phthalate (BBP), Bis[2-ethyl(hexyl)phthalate] (DEHP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP), 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP), 1, 2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP), Bis(2-methoxyethyl) phthalate, 1,3,5-tris [(2Sand2R)-2,3-epoxypropyl] -1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC), Cyclohexane-1,2-dicarboxylic anhydride, Hexahydromethylphthalic anhydride, 1,2-Benzenedicarboxylic acid, Diisopentylphthalate (DIPP), N-pentyl-isopentylphthalate, Dipentyl phthalate (DPP)



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# Test Report

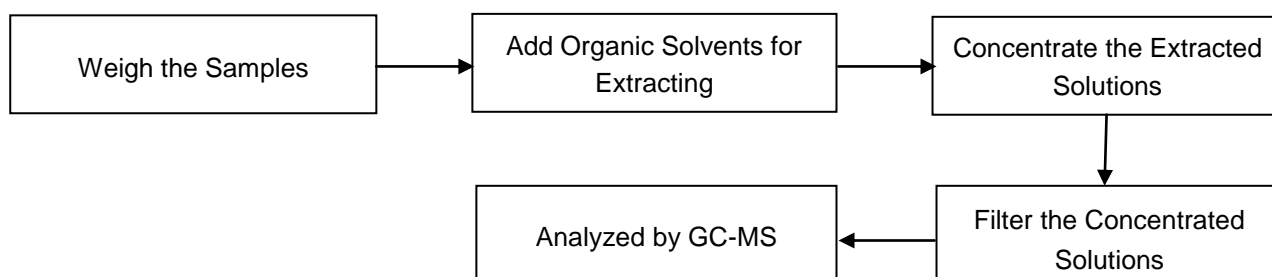
Report No.:PTC18071608102C-EN01

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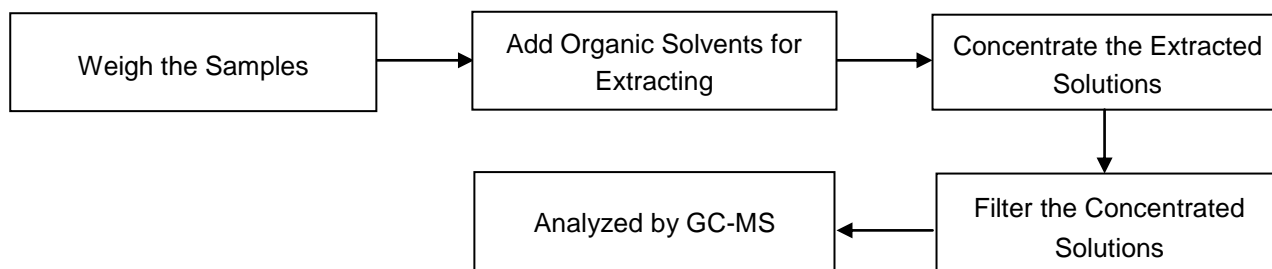
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## Test Process Flow:

5. Bis(tributyltin)oxide, Formaldehyde, oligomeric reaction products with aniline (technical MDA), 2-Methoxyaniline; o-Anisidine, Bis(2-methoxyethyl) ether, Dibutyltin dichloride (DBTC), 1,2-diethoxyethane



6. 4, 4'- Diaminodiphenylmethane, 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol), 1,2-Dichloroethane, Phenolphthalein, N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), Dinoseb (6-sec-butyl-2,4-dinitrophenol), 4,4'-methylenedi-o-toluidine, 4,4'-oxydianiline and its salts, 4-aminoazobenzene, 4-methyl-m-phenylenediamine (toluene-2,4-diamine), 6-methoxy-m-toluidine (p-cresidine), Biphenyl-4-ylamine, o-aminoazotoluene [(4-o-tolylazo-o-toluidine)], o-toluidine, 4-Nonylphenol, Perfluorohexane-1-sulphonic acid and its salts, Chrysene, Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with≥0.1% w/w 4-heptylphenol, branched and linear]



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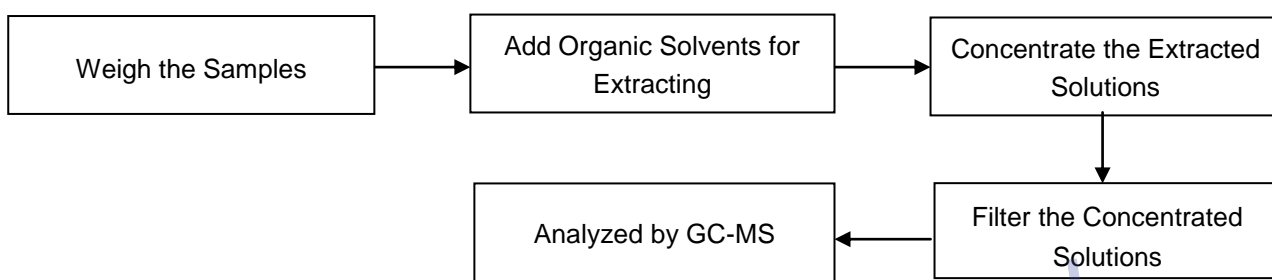
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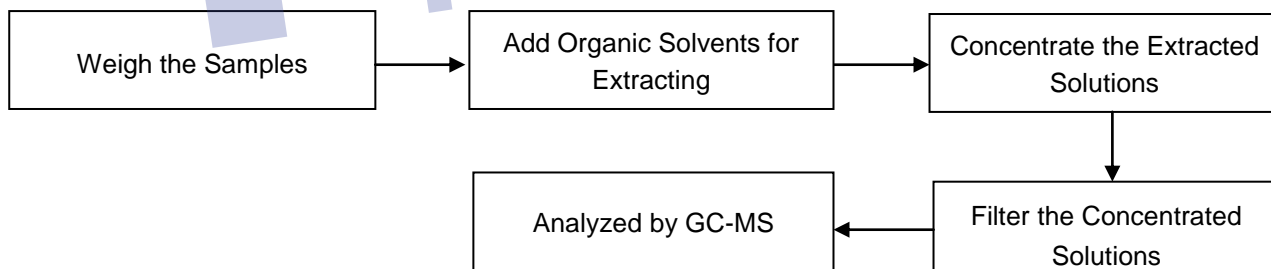
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## Test Process Flow:

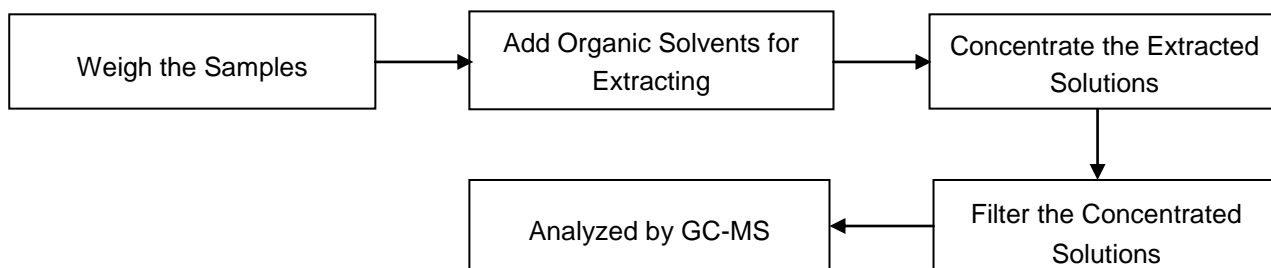
7. 5-tert-butyl-2, 4, 6-trinitro-m-xylene (Musk xylene), 2-ethoxyethylacetate, 1-methyl-2-pyrrolidone, 1,2,3-trichloropropane, 4,4'-bis (dimethylamino) benzophenone (Michler's ketone), 1,3,5-tris (oxiranylmethyl)-1,3,5-triazine-2,4,6 (1H,3H,5H)-trione (TGIC), Methoxyacetic acid, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine



8. Hexabromocyclododecane (HBCDD), Acrylamide, N,N-dimethylacetamide (DMAC), 2,2'-dichloro-4,4'-methylenedianiline (MOCA), Formamide, Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)), N,N-dimethylformamide, N-methylacetamide, Nitrobenzene



9. 2, 4-Dinitrotoluene, Tris(2-chloroethyl) phosphate,4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol,1,3-propanesultone



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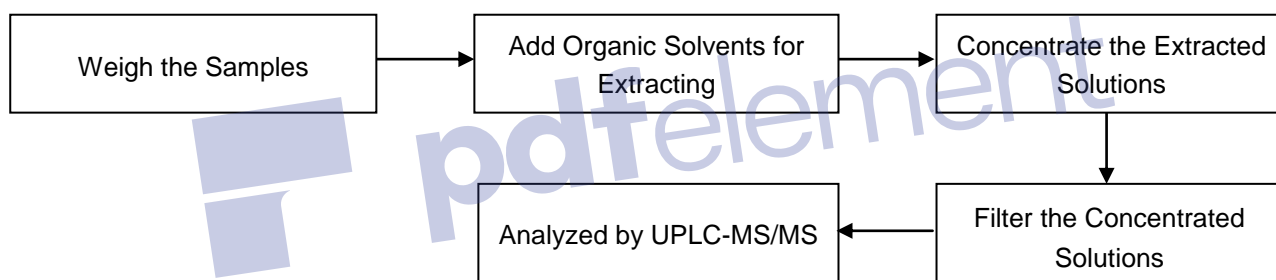
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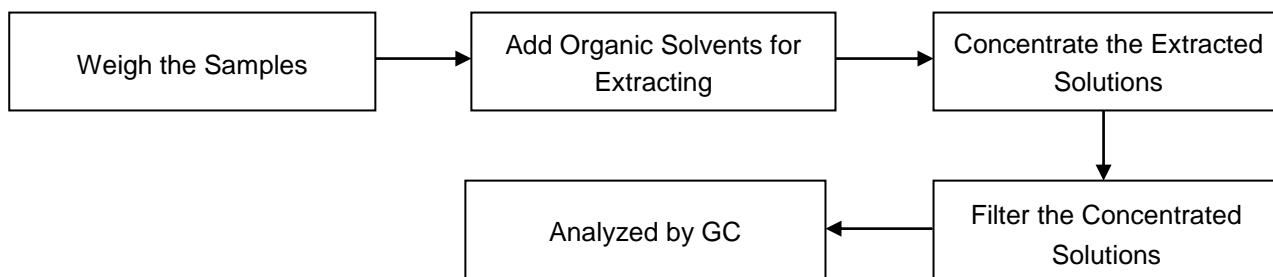
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## Test Process Flow:

10. [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride(C.I. Basic Blue 26), [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3),  $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4), Pentacosafuorotridecanoic acid, Tricosafuorododecanoic acid, Henicosafluoroundecanoic acid, Heptacosafuorotetradecanoic acid, 4-Nonylphenol, branched and linear, 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated, Ammonium pentadecafluorooctanoate (APFO), Pentadecafluorooctanoic acid (PFOA), Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts, Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)



11. 1-bromopropane (n-propyl bromide), Methyloxirane (Propylene oxide), Furan, Diethyl sulphate, Dimethyl sulphate



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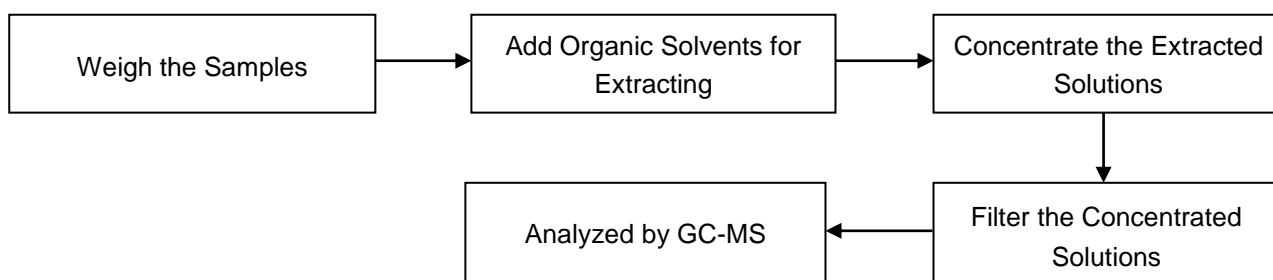
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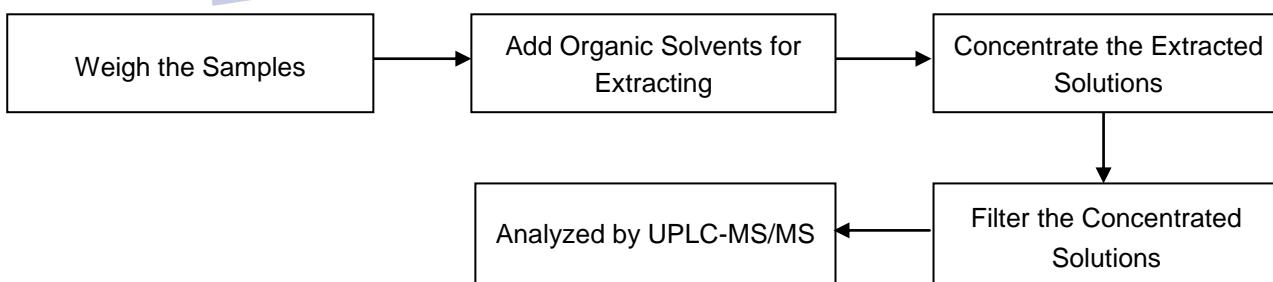
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## Test Process Flow (Continued):

12. Dihexyl phthalate, Imidazolidine-2-thione; (2-imidazoline-2-thiol), Trixylyl phosphate, 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear



13. Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38), Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red28), 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3- dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]



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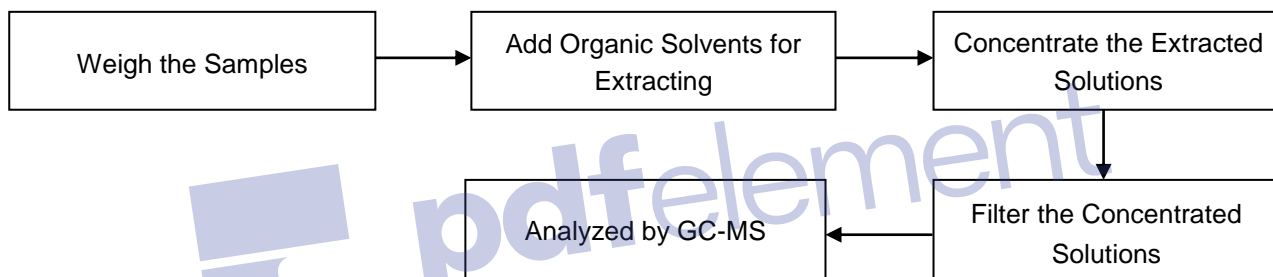
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## Test Process Flow (Continued):

14. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320), 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with  $\geq 0.3\%$  of dihexyl phthalate, 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327), 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)



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## Photo(s) of Sample:



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\*\*\*End of Report\*\*\*

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