





TEST REPORT

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SHANTOU CITY CHENGHAI DISTRICT DINOSAURS'ISLAND TOYS **Applicant Name:**

INDUSTRIAL CO.,LTD

Applicant Address: DONGHU INDUSTRIAL, FENGXIANG STREET, CHENGHAI DISTRICT

SHANTOU CITY GUANGDONG CHINA

Date of Submission: MAY 20, 2021

MAY 20, 2021 TO JUN 16, 2021 **Test Period:**

Sample Description: ANIMAL TOY

SEE ATTACHMENT Style No.:

Country of origin: **CHINA**

Sample Size:

BUREAU VERITAS SHENZHEN CO.,LTD DONGGUAN BRANCH

Harvey Xue

Manager, Analytical Lab

RT/Tina Ye **REMARK**

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ATTACHMENT:

Style No.:

RS021.RS023,RS024,RS025,RS026, RS027,RS028,RS029,RS030,RS61-100A,RS61-101, RS61-102,RS61-102A,RS61-103,RS61-103A,RS61-104,RS61-104A (SEAL BOX) ,RS61-105, RS61-105A (SEAL BOX).RS61-121,RS61-122,RS61-123,RS61-124,RS61-125,RS6198-ANKYLOSAURUS, RS6198-BRACHIOSAURUS,RS6198-CATTLE,RS6198-COW,RS6198-CROCODILE,RS6198-DONKEY, RS6198-ELEPHANT,RS6198-HIPPO,RS6198-HORSE,RS6198-LION,RS6198-PIG,RS6198-RHINOCEROS, RS6198-SHEEP.RS6198-SPINOSAURURS.RS6198-STEGOSAURUS.RS6198-TIGER, RS6198-TRICERATOPS,RS6198-TYRANNOSAURUSREX,RS6199-CAT,RS6199-CHOOK,RS6199-COW, RS6199-DINOSAURS,RS6199-DOG,RS6199-DUCK,RS6199-GIRAFFE,RS6199-LION,RS6199-OWL, RS6199-PIG,RS6199-TIGER,RS6199-ZEBRA,RS022-1,RS022-2,RS022-3,RS022-4,RS022-5,RS022-6, RS031-1,RS031-2,RS031-3,RS031-4,RS031-5,RS032-1,RS032-2,RS032-3,RS032-4,RS033-001,RS033-002, RS033-003,RS033-004,RS033-005,RS033-006,RS033,RS034-007,RS034-008,RS034-009,RS034-010, RS034-011,RS034-012,RS034,RS035-013,RS035-014,RS035-015,RS035-016,RS035-017,RS035-018, RS036-1,RS036-2,RS037-1,RS037-2,RS038-1,RS038-2,RS039-1,RS039-2,RS040,RS041,RS042,RS043, RS044-1,RS044-2,RS044-3,RS044-4,RS044-5,RS045-1,RS045-2,RS045-3,RS046-1,RS046-2,RS046-3,RS047, RS048,RS049,RS050,RS051,RS052,RS053,RS054,RS055,RS056,RS057,RS058,RS059,RS053-1,RS053-2, RS053-3,RS054-1,RS054-2,RS054-3,RS055-1,RS055-2,RS055-3,RS056-1,RS056-2,RS056-3,RS060,RS061,

SUMMARY OF TEST RESULTS

RS062,RS063,RS064,RS065,RS066,RS067,RS068,RS069,RS070,112501, 112502, 112503, 112509,

TEST REQUESTED	CONCLUSION	REMARK
Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the		
Restriction of the Use of Certain Hazardous	PASS	-
Substances in Electrical and Electronic Equipment		
(RoHS)		
Phthalates Content - European Council Directive		
2011/65/EU on the Restriction of the Use of Certain		
Hazardous Substances in Electrical and Electronic	PASS	-
Equipment (RoHS) with its Amendments Commission		
Delegated Directive (EU) 2015/863		



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Photo of the Submitted Sample





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Component Description List

Test Item(s)	Description	Location	Photo
1001	Red PVC	Foreleg	
1002	Dark red plastic	Shell	
1003	Red PVC	Head	
1004	Dark red PVC	Neck	
1005	Red PVC	Wings	
1006	Black PVC	Head plug	
1007	White plastic	Tooth/neck	
1008	Dark purple plastic	Tongue 舌头	3
1009	Silvery metal	Battery box contact chip	
I010	Silvery metal	Battery box spring	
I011	Transparent plastic	Screw gasket	
I012	Transparent white solid	Glue	
I013	Silvery metal	Metal block	
I014	Brown plastic	Nut cover	12 13
I015	Silvery solder	Solder	



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Test Item(s)	Description	Location	Photo
I016	Silvery metal	Tooth fixing shaft	
I017	Silvery metal	Tooth fixing shaft spring	17
I018	Transparent brown plastic	LED light lampshade	18
I019	Red brown plastic	Plastic parts	
1020	Taupe plastic	Tail expansion link	
l021	Silvery metal	Tail expansion link	19 20 21
1022	Red plastic	Wheel	
1023	Silvery metal	Wheel axle	22
1024	Silvery metal	Torsional spring	A
1025	Transparent plastic	Hind leg inner plastic parts	23
1026	White soft plastic	Atomizer plate case	
1027	Silvery metal	Atomizer plate	27
1028	White /black ceramic	Atomizer plate	
1029	White solid	Glue	28 29 29



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Test Item(s)	Description	Location	Photo
1030	Transparent red plastic	LED light	30-31
I031	Silvery metal	LED light pin	30-31
1032	Green/white printed brown PCB	LED light PCB	32
1033	Transparent plastic	LED light	
1034	Transparent soft plastic	Sleeve	33
1035	Silvery metal	Toggle switch frame	
1036	Orange red plastic	Toggle switch button	37
1037	Brown plastic	Toggle switch base	36
1038	Silvery metal	Toggle switch slip sheet	
1039	Silvery metal	Toggle switch spring	40
1040	Silvery metal	Toggle switch pin	39
I041	Black plastic	Infrared lamp	41



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Test Item(s)	Description	Location	Photo
1042	Translucent white plastic	Tact switch button	
1043	Black soft plastic	Tact switch button bottom	
1044	Green/white printed brown PCB	Tact switch PCB	42.43
1045	Black IC body	IC	
1046	Black audion body	Audion	
1047	Green/white printed brown PCB	Min PCB	45 46
1048	White printed green plastic	Electrolytic capacitor jacket	
1049	Silvery metal	Electrolytic capacitor shell	
1050	Black soft plastic	Electrolytic capacitor plug	48-54
1051	Brown paper with liquid	Electrolytic capacitor filler	
1052	Grey foil	Electrolytic capacitor filler	
1053	Silvery grey foil	Electrolytic capacitor filler	
1054	Silvery metal	Electrolytic capacitor pin	55-57
1055	Black soft plastic	Inductor jacket	
1056	Dark grey inductor body	Inductor	
1057	Coppery metal	Inductor coil	
1058	Black solid	Glue	
1059	Green PCB	Speaker PCB	
1060	Silvery metal	Speaker case	58



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Test Item(s)	Description	Location	Photo
1061	Black plastic	Speaker O ring	
1062	Black plastic	Speaker film	64
1063	Coppery metal	Speaker coil	
1064	Silvery magnetic	Speaker magnetic	61 62
1065	Green/white printed yellow PCB	Main PCB	
1066	Black solid	Heat sealing glue	66
1067	Dark brown capacitor	Capacitor	65
1068	Black plastic	IC body	
1069	Silvery metal	IC pin	
1070	White printed black plastic	Electrolytic capacitor jacket	69
1071	Black printed yellow PVC	Wire jacket	
1072	Black printed white PVC	Wire jacket	
1073	Red PVC	Wire jacket	
1074	Green PVC	Wire jacket	
1075	Blue PVC	Wire jacket	74 72
1076	Black printed dark red PVC	Wire jacket	76 82-83
1077	White PVC	Wire jacket	81
1078	Light red PVC	Wire jacket	
1079	Black PVC	Wire jacket (thick)	75
1080	Yellow PVC	Wire jacket	71 80
1081	Black PVC	Wire jacket (thin)	
1082	Red PVC	Wire jacket (thin)	
1083	Coppery metal	Wire core	



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Test Item(s)	Description	Location	Photo
1084	Silvery metal	Wire core	74 72 82-83 81 75 78, 84 77 71 80
1085	Green brown plastic	Gear case	
1086	Red brown plastic	Motor case	88 86 85
1087	White plastic	Gear	
1088	Translucent white plastic	Gear axle	a silver
1089	Transparent plastic	Gear axle	
1090	Grey brown plastic	Gear case	90
1091	Grey plastic	Connector	87 92 7 91
1092	Beige yellow plastic	Ball	89
1093	Silvery metal	Axle	93



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Test Item(s)	Description	Location	Photo
1094	White grey metal	Motor case	
1095	Golden metal	Motor bearing	95
1096	Black magnet	Motor magnet	
1097	Grey metal	Motor U iron	94 96 97
1098	Beige white plastic	Motor endbell	
1099	Brown resistor body	Motor resistor	99 100
I100	Silvery metal	Motor resistor pin	98
I101	Golden metal	Motor pin	
l102	Coppery metal	Motor brush	102 101
I103	Silvery metal	Motor shaft	
l104	Silvery metal	Motor metal plate	
I105	Golden metal	Motor O ring	106_
I106	Coppery metal	Motor O ring	109-110 108
I107	Coppery metal	Motor coil	104
I108	Coppery metal	Motor steering gear	A STATE OF THE STA
I109	Red paper	Motor steering gear	105
l110	Black /white ceramic	Motor steering gear	103 107
l111	Beige plastic	Motor steering gear	
l112	White plastic	Motor insulation board	
I113	Grey metal	Small motor bearing	
l114	White plastic	Small motor endbell	113 114



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Test Item(s)	Description	Location	Photo
l115	Light brown plastic	Nut cover	115
l116	Transparent orange plastic	Eyes	116
l117	Transparent yellow plastic	LED light	
I118	Grey plastic	Tail expansion link	
l119	Light grey plastic	Tail expansion link	117 118 119
l120	Coppery metal with adhesive	Coppery foil	
l121	Green/white printed light brown PCB	Tact switch PCB	120
l122	Black plastic	Toggle switch button	122
l123	Green plastic	Speaker case	
l124	Silvery metal	Speaker case	123



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Test Item(s)	Description	Location	Photo
l125	Green solid	Heat sealing glue	
I126	Dark brown plastic	Motor case	126 127
l127	Light brown plastic	Motor case	
I128	Blue plastic	Shell	131
I129	Blue PVC	Head	
I130	Blue PVC	Neck	
I131	Blue PVC	Wings	128
l132	Blue PVC	Foreleg	132
l133	Blue plastic	Wheel	133
l134	Green plastic	Nut cover	



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Test Item(s)	Description	Location	Photo
l135	White plastic	Plastic parts	133
I136	Cyan plastic	Gear case	
I137	Grey plastic	Gear case	136 142
I138	Olive green plastic	Gear case	
I139	Grey green plastic	Gear case	
I140	White plastic	Ball	100
l141	Dark orange plastic	Connector	
l142	Liver-coloured plastic	Plastic parts	139
l143	Tan plastic	Tail expansion link	140 1 141
l144	Khaki plastic	Shell	* ~
I145	Khaki PVC	Neck	
I146	Khaki PVC	Foreleg	146
l147	Dark khaki plastic	Wheel	147



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Test Item(s)	Description	Location	Photo
I148	Yellow plastic	Terminal socket	
l149	Light green plastic	Terminal socket	148
I150	Blue plastic	Terminal socket	
l151	Black plastic	Terminal socket	
l152	Red plastic	Terminal socket	149 151 152
I153	Beige white plastic	Terminal socket	
l154	Yellow plastic	Terminal	155
I155	Light green plastic	Terminal	154
I156	Blue plastic	Terminal	
I157	Red plastic	Terminal	
I158	White plastic	Terminal	157 158 153
I159	Grey metal	Toggle switch frame	
I160	White printed black soft plastic	Sleeve	159
l161	Army green plastic	Gear case	



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Test Item(s)	Description	Location	Photo
l162	Dark green plastic	Shell	
I163	Dark green PVC	Neck	591
l164	Dark green PVC	Foreleg	
I165	Black plastic	LED light lampshade	1003
I166	Green plastic	Wheel	
I167	Grass green plastic	Gear case	169
I168	Orange brown plastic	Gear case	160
I169	Mouse grey plastic	Gear case	108
I170	White plastic	Motor case	170



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Test Item(s)	Description	Location	Photo
l171	Brown plastic	Shell	
l172	Brown PVC	Neck	
I173	Brown PVC	Foreleg	173
l174	Dark brown plastic	Wheel	174
l175	Dark green plastic	Gear case	
I176	Dark yellow plastic	Gear case	
l177	Chocolate plastic	Gear case	alle
l178	Beige grey plastic	Motor case	
l179	Light brown plastic	Shell	
I180	Light brown PVC	Foreleg	
l181	Indian red plastic	Tongue	180



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Test Item(s)	Description	Location	Photo
l182	Orange brown plastic	Wheel	182
I183	Dark brown plastic	Shell	
l184	Dark brown PVC	Foreleg	183
l185	Black plastic	LED light	185
I186	Transparent red plastic	Eyes	186



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Test Item(s)	Description	Location	Photo
l187	Green /white printed brown PCB	Main PCB	187
I188	Green printed light brown PCB	LED light PCB	183
I189	Black magnet	Speaker magnet	
I190	Silvery metal	Speaker magnet holder	190
I191	Silvery metal	Speaker magnet gasket	191
l192	Green /white printed brown PCB	Remote control PCB	193
I193	Black IC	Remote control PCB	192



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Test Item(s)	Description	Location	Photo
l194	Silvery white metal	Big screw	
l195	Silvery white metal	Middle screw	194 195 196
I196	Silvery white metal	Small screw	do also t
l197	Silvery white metal	Screw	* * *
l198	Silvery white metal	Short screw	199 197 198
l199	Silvery metal	Big screw	
1200	Silvery metal	Small screw	200 201
I201	Silvery metal	Nut	



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TEST RESULT

1.1. Screening Test for the Certain Hazardous Substances of RoHS

- Heavy Metal (Lead, Cadmium, Mercury, Chromium) Content Test

- Bromine Content Test

Test Method: IEC62321-3-1:2013, and Quantification Analyzed with Energy Dispersive X-ray Fluorescence

Spectrometers.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test			Result (mg/kg))		Conclusion
Item(s)					1	
1001	BL	BL	BL	BL	BL	PASS
1002	BL	BL	BL	BL	BL	PASS
1003	BL	BL	BL	BL	BL	PASS
1004	BL	BL	BL	BL	BL	PASS
1005	BL	BL	BL	BL	BL	PASS
1006	BL	BL	BL	BL	BL	PASS
1007	BL	BL	BL	BL	BL	PASS
1008	BL	BL	BL	BL	BL	PASS
1009	BL	BL	BL	IN	N.A.	-
I010	BL	BL	BL	BL	N.A.	PASS
I011	BL	BL	BL	BL	BL	PASS
1012	BL	BL	BL	BL	BL	PASS
I013	BL	BL	BL	BL	N.A.	PASS
I014	BL	BL	BL	BL	BL	PASS
I015	BL	BL	BL	BL	N.A.	PASS
I016	BL	BL	BL	BL	N.A.	PASS
I017	BL	BL	BL	BL	N.A.	PASS
1018	BL	BL	BL	BL	BL	PASS
I019	BL	BL	BL	BL	BL	PASS
1020	BL	BL	BL	BL	BL	PASS
1021	BL	BL	BL	BL	N.A.	PASS
1022	BL	BL	BL	BL	BL	PASS
1023	BL	BL	BL	BL	N.A.	PASS
1024	BL	BL	BL	BL	N.A.	PASS
1025	BL	BL	BL	BL	BL	PASS
1026	BL	BL	BL	BL	BL	PASS
1027	BL	BL	BL	IN	N.A.	-
1028	OL	BL	BL	BL	BL	EXEMPTED
1029	BL	BL	BL	BL	BL	PASS
1030	BL	BL	BL	BL	IN	-



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)		Result (mg/kg)				
1031	BL	BL	BL	BL	N.A.	PASS
1032	BL	BL	BL	BL	BL	PASS
1033	BL	BL	BL	BL	IN	-
1034	BL	BL	BL	BL	BL	PASS
1035	BL	BL	BL	BL	N.A.	PASS
1036	BL	BL	BL	BL	BL	PASS
1037	BL	BL	BL	BL	BL	PASS
1038	BL	BL	BL	BL	N.A.	PASS
1039	BL	BL	BL	BL	N.A.	PASS
1040	BL	BL	BL	BL	N.A.	PASS
1041	BL	BL	BL	BL	IN	-
1042	BL	BL	BL	BL	BL	PASS
1043	BL	BL	BL	BL	BL	PASS
1044	BL	BL	BL	BL	BL	PASS
1045	BL	BL	BL	BL	BL	PASS
1046	BL	BL	BL	BL	BL	PASS
1047	BL	BL	BL	BL	BL	PASS
1048	BL	BL	BL	BL	BL	PASS
1049	BL	BL	BL	BL	N.A.	PASS
1050	BL	BL	BL	BL	BL	PASS
1051	BL	BL	BL	BL	BL	PASS
1052	BL	BL	BL	BL	BL	PASS
1053	BL	BL	BL	BL	BL	PASS
1054	BL	BL	BL	BL	N.A.	PASS
1055	BL	BL	BL	BL	BL	PASS
1056	BL	BL	BL	BL	BL	PASS
1057	BL	BL	BL	BL	N.A.	PASS
1058	BL	BL	BL	BL	BL	PASS
1059	BL	BL	BL	BL	IN	-
1060	BL	BL	BL	IN	N.A.	-
1061	BL	BL	BL	BL	IN	-
1062	BL	BL	BL	BL	BL	PASS
1063	BL	BL	BL	BL	N.A.	PASS
1064	BL	BL	BL	BL	N.A.	PASS
1065	BL	BL	BL	BL	IN	-
1066	BL	BL	BL	BL	BL	PASS
1067	OL	BL	BL	BL	BL	EXEMPTED
1068	BL	BL	BL	BL	IN	-



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion	
Test Item(s)		Result (mg/kg)					
1069	BL	BL	BL	BL	N.A.	PASS	
1070	BL	BL	BL	BL	BL	PASS	
1071	BL	BL	BL	BL	BL	PASS	
1072	BL	BL	BL	BL	BL	PASS	
1073	BL	BL	BL	BL	BL	PASS	
1074	BL	BL	BL	BL	BL	PASS	
1075	BL	BL	BL	BL	BL	PASS	
1076	BL	BL	BL	BL	BL	PASS	
1077	BL	BL	BL	BL	BL	PASS	
1078	BL	BL	BL	BL	BL	PASS	
1079	BL	BL	BL	BL	BL	PASS	
1080	BL	BL	BL	BL	BL	PASS	
1081	BL	BL	BL	BL	BL	PASS	
1082	BL	BL	BL	BL	BL	PASS	
1083	BL	BL	BL	BL	N.A.	PASS	
1084	BL	BL	BL	BL	N.A.	PASS	
1085	BL	BL	BL	BL	BL	PASS	
1086	BL	BL	BL	BL	BL	PASS	
1087	BL	BL	BL	BL	BL	PASS	
1088	BL	BL	BL	BL	BL	PASS	
1089	BL	BL	BL	BL	BL	PASS	
1090	BL	BL	BL	BL	BL	PASS	
1091	BL	BL	BL	BL	BL	PASS	
1092	BL	BL	BL	BL	BL	PASS	
1093	BL	BL	BL	IN	N.A.	-	
1094	BL	BL	BL	BL	N.A.	PASS	
1095	BL	BL	BL	BL	N.A.	PASS	
1096	BL	BL	BL	IN	N.A.	-	
1097	BL	BL	BL	BL	N.A.	PASS	
1098	BL	BL	BL	BL	BL	PASS	
1099	BL	BL	BL	BL	BL	PASS	
I100	BL	BL	BL	BL	N.A.	PASS	
l101	BL	BL	BL	BL	N.A.	PASS	
l102	BL	BL	BL	BL	N.A.	PASS	
I103	BL	BL	BL	BL	N.A.	PASS	
l104	BL	BL	BL	IN	N.A.	-	
l105	BL	BL	BL	BL	N.A.	PASS	
I106	BL	BL	BL	BL	N.A.	PASS	



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test			Result (mg/kg)		Conclusion
Item(s)			· · · · · · · · · · · · · · · · · · ·	,		
l107	BL	BL	BL	BL	N.A.	PASS
l108	BL	BL	BL	BL	N.A.	PASS
l109	BL	BL	BL	BL	BL	PASS
l110	BL	BL	BL	BL	BL	PASS
l111	BL	BL	BL	BL	BL	PASS
l112	BL	BL	BL	BL	BL	PASS
I113	BL	BL	BL	BL	BL	PASS
l114	BL	BL	BL	BL	BL	PASS
l115	BL	BL	BL	BL	BL	PASS
l116	BL	BL	BL	BL	BL	PASS
l117	BL	BL	BL	BL	IN	-
l118	BL	BL	BL	BL	BL	PASS
l119	BL	BL	BL	BL	BL	PASS
l120	BL	BL	BL	BL	N.A.	PASS
l121	BL	BL	BL	BL	BL	PASS
l122	BL	BL	BL	BL	BL	PASS
I123	BL	BL	BL	BL	BL	PASS
l124	BL	BL	BL	BL	N.A.	PASS
I125	BL	BL	BL	BL	BL	PASS
I126	BL	BL	BL	BL	BL	PASS
l127	BL	BL	BL	BL	BL	PASS
l128	BL	BL	BL	BL	BL	PASS
l129	BL	BL	BL	BL	BL	PASS
I130	BL	BL	BL	BL	BL	PASS
I131	BL	BL	BL	BL	BL	PASS
l132	BL	BL	BL	BL	BL	PASS
I133	BL	BL	BL	BL	BL	PASS
l134	BL	BL	BL	BL	BL	PASS
I135	BL	BL	BL	BL	BL	PASS
I136	BL	BL	BL	BL	BL	PASS
l137	BL	BL	BL	BL	BL	PASS
I138	BL	BL	BL	BL	BL	PASS
I139	BL	BL	BL	BL	BL	PASS
I140	BL	BL	BL	BL	BL	PASS
l141	BL	BL	BL	BL	BL	PASS
l142	BL	BL	BL	BL	BL	PASS
l143	BL	BL	BL	BL	BL	PASS
l144	BL	BL	BL	BL	BL	PASS



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)			Result (mg/kg)		Conclusion
l145	BL	BL	BL	BL	BL	PASS
I146	BL	BL	BL	BL	BL	PASS
l147	BL	BL	BL	BL	BL	PASS
l148	BL	BL	BL	BL	IN	-
l149	BL	BL	BL	BL	IN	-
l150	BL	BL	BL	BL	IN	-
l151	BL	BL	BL	BL	IN	-
l152	BL	BL	BL	BL	IN	-
l153	BL	BL	BL	BL	IN	-
l154	BL	BL	BL	BL	BL	PASS
l155	BL	BL	BL	BL	BL	PASS
l156	BL	BL	BL	BL	BL	PASS
l157	BL	BL	BL	BL	BL	PASS
l158	BL	BL	BL	BL	BL	PASS
l159	BL	BL	BL	BL	N.A.	PASS
I160	BL	BL	BL	BL	BL	PASS
I161	BL	BL	BL	BL	BL	PASS
I162	BL	BL	BL	BL	BL	PASS
I163	BL	BL	BL	BL	BL	PASS
l164	BL	BL	BL	BL	BL	PASS
I165	BL	BL	BL	BL	BL	PASS
I166	BL	BL	BL	BL	BL	PASS
l167	BL	BL	BL	BL	BL	PASS
I168	BL	BL	BL	BL	BL	PASS
I169	BL	BL	BL	BL	BL	PASS
l170	BL	BL	BL	BL	BL	PASS
l171	BL	BL	BL	BL	BL	PASS
l172	BL	BL	BL	BL	BL	PASS
l173	BL	BL	BL	BL	BL	PASS
l174	BL	BL	BL	BL	BL	PASS
l175	BL	BL	BL	BL	BL	PASS
l176	BL	BL	BL	BL	BL	PASS
l177	BL	BL	BL	BL	BL	PASS
l178	BL	BL	BL	BL	BL	PASS
l179	BL	BL	BL	BL	BL	PASS
I180	BL	BL	BL	BL	BL	PASS
l181	BL	BL	BL	BL	BL	PASS
l182	BL	BL	BL	BL	BL	PASS



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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs		
Test Item(s)	(- 7	Result (mg/kg)					
l183	BL	BL	BL	BL	BL	PASS	
l184	BL	BL	BL	BL	BL	PASS	
l185	BL	BL	BL	BL	IN	-	
I186	IN	BL	BL	BL	BL	-	
l187	BL	BL	BL	BL	BL	PASS	
l188	BL	BL	BL	BL	BL	PASS	
l189	BL	BL	BL	BL	N.A.	PASS	
l190	BL	BL	BL	IN	N.A.	-	
l191	BL	BL	BL	IN	N.A.	-	
l192	BL	BL	BL	BL	BL	PASS	
l193	BL	BL	BL	BL	BL	PASS	
l194	BL	BL	BL	IN	N.A.	-	
l195	BL	BL	BL	BL	N.A.	PASS	
l196	BL	BL	BL	IN	N.A.	-	
l197	BL	BL	BL	IN	N.A.	-	
l198	BL	BL	BL	BL	N.A.	PASS	
l199	BL	BL	BL	BL	N.A.	PASS	
1200	BL	BL	BL	BL	N.A.	PASS	
I201	BL	BL	BL	BL	N.A.	PASS	

Remark:

- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) 28, 67 was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- The above results was performed at a Bureau Veritas CPS approved subcontract lab.



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Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %

- 2. "OL" denotes "over limit"; "BL" denotes "below limit"; "N.A." denotes "Not Applicable"; "IN" denotes "Inconclusive", thus further confirmation test was conducted, results are listed in 1.2 and 1.3.
- 3. PBBs&PBDEs were evaluated by Bromine content of XRF screening.
- 4. According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) < I028,I067> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

5. XRF screening limits for different materials:

Element	Polymers	Metal	Composite material
Pb	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ)
Cd	BL≤(70-3σ) <x<(130+3σ)≤ ol<="" td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ ol<="" td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤></td></x<(130+3σ)≤>	BL≤(70-3σ) <x<(130+3σ)≤ ol<="" td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ)
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>
Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>



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1.2. Test for Heavy Metals

- Lead, Cadmium and Chromium Content Tests according to IEC 62321-5:2013.

- Mercury Content Test according to IEC 62321-4:2013/AMD1:2017.
- Chromium VI Content in Metal Test according to IEC 62321-7-1:2015.
- Chromium VI Content in Polymers and Electronic Test according to IEC 62321-7-2:2017.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	
Detection Limit	10	10	10	10 / Δ	Conclusion
Requirements	1000	100	1000	1000 / Negative	
Test Item(s)		Result	(mg/kg)		
1009	/	/	/	Negative	PASS
1027	/	/	/	Negative	PASS
1060	/	/	/	Negative	PASS
1093	/	/	/	Negative	PASS
1096	/	/	/	Negative	PASS
I104	/	/	/	Negative	PASS
I186	645	/	/	/	PASS
I190	/	/	/	Negative	PASS
l191	/	/	/	Negative	PASS
I194	/	/	/	Negative	PASS
I196	/	/	/	Negative	PASS
I197	/	/	/	Negative	PASS

Note:

- 1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
- 2. "N.D." = "Not Detected".
- 3. "A" = Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1)(less than 0.10µg/cm²). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1)(greater than 0.13µg/cm²).



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1.3. Test for Flame Retardants

Test Method: IEC62321-6:2015, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

	Analyte		Re	sult (mg/k	(g)		Requirement
			1033	1041	1059	1061	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	0 (DDD-
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	0 (000
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-



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	Analyte		Re	sult (mg/k	(g)		Requirement
			1068	l117	l148	l149	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	0 (000
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	2 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	0 (0005
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-



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	Analyte		Re	sult (mg/k	(g)		Requirement
			l151	l152	l153	l185	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	0 (000
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	0(DDDE.
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.

2. MDL= Detection Limit = 50mg/kg.

3. "N.D." = "Not Detected".



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2. Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyta		Requirement		
Analyte	1001+1003+1004	1002+1007+1008	1005+1006+1026	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analysta		Requirement		
Analyte	1011+1014+1018	1012+1029+1058	1019+1020+1022	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyta		Requirement		
Analyte	1025+1030+1033	1032+1044+1047	1034+1042+1043	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analysta		Requirement		
Analyte	1036+1037+1041	1048+1050+1055	I051+I109	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	70	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analysta		Requirement		
Analyte	1059+1065+1121	1061+1062+1068	I066+I125	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyta		Requirement		
Analyte	1070+1071+1072	1073+1074+1075	1076+1077+1078	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	100	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	80	60	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Amolysto		Requirement		
Analyte	1079+1080+1081	1082+1129+1130	1085+1086+1087	(mg/kg)
Dibutyl phthalate (DBP)	60	70	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyta		Requirement		
Analyte	1088+1089+1090	1091+1092+1098	l111+l112+l114	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	l115+l116+l117	l118+l119+l122	l123+l126+l127	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	l128+l133+l134	l131+l132+l145	I135+I136+I137	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	l138+l139+l140	l141+l142+l143	l144+l147+l148	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyte	Result (mg/kg)			Requirement
	I146+I160+I163	l149+l150+l151	I152+I153+I154	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	l155+l156+l157	I158+I161+I162	l164+l172+l173	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	I165+I166+I167	I168+I169+I170	l171+l174+l175	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	l176+l177+l178	l179+l181+l182	I183+I185+I186	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	220	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Amalista	Result	Requirement		
Analyte	I180+I184	l187+l188+l192	(mg/kg)	
Dibutyl phthalate (DBP)	110	N.D.	1000	
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	1000	
Benzyl butyl phthalate (BBP)	N.D.	N.D.	1000	
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	1000	
Conclusion	PASS	PASS	-	

Note:

- 1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
- 2. MDL= Detection Limit = 50mg/kg.
- 3. "N.D." = "Not Detected".
- 4. Results shown are of the total weight of mixed samples.

Remark:

The above results was performed at a Bureau Veritas CPS approved subcontract lab.

*** End of Report ***