



RoHS TEST REPORT

APPLICANT : Shanghai SIMCom Wireless Solutions Limited.

PRODUCT NAME : SIM7100A

MODEL NAME : N/A

BRAND NAME : N/A

TEST REQUEST : Test as requested by client

TEST DATE : 2017-12-01 to 2017-12-08

ISSUE DATE : 2017-12-12

TEST CONCLUSION : Based on the verification results of the submitted samples,
the results comply with the limits as set by RoHS Directive
2011/65/EU and amended by (EU) 2015/863

Tested by : Liu Rui
Liu Rui(Test engineer)

Approved by : Xiaoshan Ni
Xiaoshan Ni (Supervisor)

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1. Technical Information

Note: Provided by applicant

1.1 Applicant Information

Applicant	Shanghai SIMCom Wireless Solutions Limited.
Applicant Address	Building A, SIM Technology Building, No.633, Jinzhong Road, Changning District, Shanghai P.R.China 200335
Manufacturer	N/A
Manufacturer Address	N/A

2. Component Description

Part No.	Sample No.	Sample Description	Sample Material
1	A-1	RES NTC 68KR +/-5% CH0402 RO	COMPOSITE
		RES NTC 68KR +/-5% CH0402 RO	COMPOSITE
2	A-2	RES MF 100K +/-1% 1/20W CH0201 RO	COMPOSITE
		RES MF 100K +/-1% 1/20W CH0201 RO	COMPOSITE
3	A-3	RES MF 0R +/-5% 1/20W CH0201 RO	COMPOSITE
		RES MF 0R +/-5% 1/20W CH0201 RO	COMPOSITE
		RES MF 0R +/-5% 1/20W CH0201 RO	COMPOSITE
4	A-4	RES MF 10K +/-5% 1/20W CH0201 RO	COMPOSITE
		RES MF 10K +/-5% 1/20W CH0201 RO	COMPOSITE
		RES MF 10K +/-5% 1/20W CH0201 RO	COMPOSITE
5	A-5	RES MF 680R +/-1% 1/20W CH0201 RO	COMPOSITE
6	A-6	RES MF 47R +/-5% 1/20W CH 0201 RO	COMPOSITE
7	A-7	RES MF 150R +/-1% 1/20W CH0201 RO	COMPOSITE
		RES MF 150R +/-1% 1/20W CH0201 RO	COMPOSITE
		RES MF 150R +/-1% 1/20W CH0201 RO	COMPOSITE
8	A-8	RES MF 20KR +/-5% 1/20W CH0201 RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
9	A-9	RES MF 240R +/-1% 1/20W CH0201 RO	COMPOSITE
		RES MF 240R +/-1% 1/20W CH0201 RO	COMPOSITE
10	A-10	RES MF 200R +/-1% 1/20W CH0201 RO	COMPOSITE
11	A-11	RES MF 4.75K +/-1% 1/20W CH0201 RO	COMPOSITE
		RES MF 4.75K +/-1% 1/20W CH0201 RO	COMPOSITE
12	A-12	CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 1UF +/-20% 6.3V CH0201 RO	COMPOSITE
13	A-13	CAP X5R 4.7UF +/-20% 10V CH0402 RO	COMPOSITE
		CAP X5R 4.7UF +/-20% 6.3V 0402 +0.03 RO	COMPOSITE
14	A-14	CAP X5R 22UF 6.3V +/-20% 0603 RO	COMPOSITE
		CAP X5R 22UF +/-20% 6.3V CH0603 RO	COMPOSITE
		CAP X5R 22UF +/-20% 6.3V CH0603*0.8 RO	COMPOSITE
		CAP X5R 22UF +/-20% 6.3V CH0603*0.6 RO	COMPOSITE
		CAP X5R 22UF 6.3V +/-20% 0603 RO	COMPOSITE
15	A-15	CAP X5R 47UF +/-20% 6.3V CH0603 0.8MM RO	COMPOSITE
		CAP X5R 47UF +/-20% 6.3V CH0603 RO	COMPOSITE
16	A-16	CAP X5R 10UF +/-20% 6.3V CH0402 RO	COMPOSITE
		CAP X5R 10UF +/-20% 6.3V CH0402 RO	COMPOSITE
17	A-17	CAP X5R 2.2UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 2.2UF +/-20% 6.3V CH0201 RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
		CAP X5R 2.2UF +/-20% 6.3V CH0201 RO	COMPOSITE
		CAP X5R 2.2UF +/-20% 6.3V CH0201 RO	COMPOSITE
18	A-18	CAP X5R 100NF +/-10% 10V CH0201 RO	COMPOSITE
		CAP X5R 100NF +/-10% 10V CH0201 RO	COMPOSITE
		CAP X5R 100NF +/-10% 10V CH0201 RO	COMPOSITE
		CAP X5R 100NF +/-10% 10V CH0201 RO	COMPOSITE
19	A-19	CAP CM1 100PF +/-5% 25V CH0201 RO	COMPOSITE
		CAP CM1 100PF +/-5% 25V CH0201 RO	COMPOSITE
20	A-20	CAP X7R 1NF +/-10% 25V CH0201 RO	COMPOSITE
		CAP X7R 1NF +/-10% 25V CH0201 RO	COMPOSITE
		CAP X7R 1NF +/-10% 25V CH0201 RO	COMPOSITE
21	A-21	CAP COG 33PF +/-5% 25V CH0201 RO	COMPOSITE
		CAP COG 33PF +/-5% 25V CH0201 RO	COMPOSITE
		CAP COG 33PF +/-5% 25V CH0201 RO	COMPOSITE
22	A-22	CAP COG 1PF +/-0.25PF 50V CH0201 RO	COMPOSITE
		CAP COG 1PF +/-0.25PF 50V CH0201 RO	COMPOSITE
23	A-23	TVS 5V 6PF 双向 DFN0603 RO	COMPOSITE
24	A-24	IND FILM 3.0NH +/-0.1NH CH0201 RO	COMPOSITE
25	A-25	IND HQ 6.8NH +/-3% CH0201 RO	COMPOSITE
26	A-26	IND HQ CHIP COIL 8.2NH +/-3% CH0201 RO	COMPOSITE
		8.2NH +/-3% CH0201 RO	COMPOSITE
27	A-27	IND HQ 1.2NH +/-0.1NH CH0201 RO	COMPOSITE
		IND HQ 1.2NH +/-0.1NH CH0201 RO	COMPOSITE
28	A-28	IND HQ 1.5NH +/-1% CH0201 RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
28		IND HQ 1.5NH +/-1% CH0201 RO	COMPOSITE
29	A-29	IND FILM HQ 2.2NH +/-0.1NH220MACH0201 RO	COMPOSITE
		IND FILM HQ 2.2NH ±0.1NH 220MACH0201 RO	COMPOSITE
30	A-30	IND HIGH 22NH +/-3% CH0201 RO	COMPOSITE
		IND HIGH 22NH +/-3% CH0201 RO	COMPOSITE
31	A-31	IND HIGH 18NH +/-3% CH0201 RO	COMPOSITE
32	A-32	IND HQ CHIP COIL 10NH +/-3% CH0201 RO	COMPOSITE
33	A-33	BEAD 220OHM@100MHZ 1400MA 0.1R CH0603 RO	COMPOSITE
		BEAD 220R/100MHZ 1.4A 0603 RO	COMPOSITE
34	A-34	IND_HIGH_15NH_+/-5%_CH0201 RO	COMPOSITE
		IND HQ CHIP COIL 15NH +/-3% CH0201 RO	COMPOSITE
35	A-35	IND FILM 9.1NH +/-3% CH0201 RO	COMPOSITE
36	A-36	IND HQ CHIP COIL 4.7NH +/-3% CH0201 RO	COMPOSITE
		IND HQ CHIP COIL 4.7NH +/-3% CH0201 RO	COMPOSITE
		IND HIGH 4.7NH +/-3% CH0201 RO	COMPOSITE
37	A-37	IND HIGH 47NH +/-5% CH0201 RO	COMPOSITE
38	A-38	IND LOW 2.2UH +/-20% 1200MA CH2016 RO	COMPOSITE
		IND LOW 2.2UH +/-20% 1200MA CH2016 RO	COMPOSITE
		IND MULTI 2.2UH ±20% 1.2A CH2016 RO	COMPOSITE
39	A-39	TCXO 19.2MHZ 7PF +/-10PPM 2.0*1.6 RO	COMPOSITE
		CRY XO 19.2MHZ 7PF +/-10PPM CH2016 RO	COMPOSITE
40	A-40	MEMO 2G8NAND+1G32DDR 1.8V BGA130 RO	COMPOSITE
		MEMO 2G8NAND+1G32DDR 1.8V BGA130 RO	COMPOSITE
41	A-41	ASW SP8T DRX GPIO 2*2*0.55MM RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
42	A-42	B41 RX SAW 2555-2655MHZ 1109 RO	COMPOSITE
43	A-43	B41 TX SAW 2555-2655MHZ 1411 RO	COMPOSITE
44	A-44	BAND40 BALANCED RX SAW 11*09MM RO	COMPOSITE
45	A-45	BAND 8 RX SAW 50R/100R 1109 RO	COMPOSITE
46	A-46	PA GSM/EDGE/UMTS/CDMA/TD/LTE 7*5 RO	COMPOSITE
47	A-47	SAW GPS/GLONASS 50/100R 1.1*0.9 RO	COMPOSITE
48	A-48	SAW RX WCDMA BAND1 50/100R 1.1*0.9MM RO	COMPOSITE
49	A-49	TRX GSM/TD/EVDO/WCDMA/LTE WLNSP142 RO	COMPOSITE
50	A-50	SAW DPX UMTS BAND1 50/100/50R 2.0*1.6 RO	COMPOSITE
51	A-51	BAND40 TX SAW FILTER 1.35*1.05 RO	COMPOSITE
52	A-52	SPDT SWITCH 1.0*1.0*0.4MM RO	COMPOSITE
		GAASVERY SMALL1BIT CONTROLSPDT SWITCH RO	COMPOSITE
53	A-53	SAW DPX BAND3 50/100R 2016 RO	COMPOSITE
54	A-54	SAW DPX WCDMA900 50/100/50R 2.0*1.6 RO	COMPOSITE
55	A-55	DIFFERENTIAL 3T SWITCH 2*2*0.55MM RO	COMPOSITE
56	A-56	DP4T SWITCH 10PIN 1.1*1.5*0.9MM RO	COMPOSITE
57	A-57	SAW RX WCDMA B3 50/100R 1.1*0.9 RO	COMPOSITE
58	A-58	NPN 50V 100MA R1=100K R2=100K SOT-723 RO	COMPOSITE
59	A-59	TVS 5V 0.55PF 双路 DFN1006-3L RO	COMPOSITE
		TVS 5V 0.5PF 双路 DFN1006-3L RO	COMPOSITE
60	A-60	PMU WLNSP-105 3.87*4.44*0.55MM 0.4P RO	COMPOSITE
61	A-61	BB EDGE/TD/EVDO/HSPA+/LTE 424NSP 550M RO	COMPOSITE
62	A-62	PAM B7/38/40/41 3*4*0.9MM RO	COMPOSITE
63	A-63	ASW SP14T GPIO QFN-22 2.5*2.9*1.0MM RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
64	A-64	PCB 8PPA00-SIM7100CE 10L HDI V1.05 RO	COMPOSITE
65	A-65	SHIELDING FRAME SIM7100 RO	METAL
		SHIELDING FRAME-NEW SIM7100 RO	METAL
66	A-66	SIM7100C SHIELDING CASE HOLE SLOT NEW RO	METAL
67	A-67	IND HQ CHIP COIL 3.9NH ±0.1NH CH0201 RO	COMPOSITE
68	A-68	LOW PASS FILTER 824-915MHZ 0.65*0.5 RO	COMPOSITE
69	A-69	IND HQ 1NH +/-0.1NH CH0201 RO	COMPOSITE
70	A-70	CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	COMPOSITE
		CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	COMPOSITE
		CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	COMPOSITE
		CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	COMPOSITE
71	A-71	DP4T SWITCH 10PIN 1.1*1.5*0.9MM RO	COMPOSITE
72	A-72	IND HIGH 2.5NH +/-1% CH0201 RO	COMPOSITE
73	A-73	CAP COG 22PF +/-5% 50V CH0201 RO	COMPOSITE
		CAP COG 22PF +/-5% 50V CH0201 RO	COMPOSITE
74	A-74	IND HIGH 4.3NH +/-3% CH0201 RO	COMPOSITE
75	A-75	IND HQ CHIP COIL 5.1NH +/-3% CH0201 RO	COMPOSITE
76	A-76	IND HIGH 3NH +/-0.1NH CH0201 RO	COMPOSITE
		IND FILM 3.0NH +/-0.1NH CH0201 RO	COMPOSITE
77	A-77	CAP COG 1.2P +/-0.1PF 50V CH0201 RO	COMPOSITE
		CAP COG 1.2P +/-0.1PF 50V CH0201 RO	COMPOSITE
		CAP COG 1.2P +/-0.1PF 50V CH0201 RO	COMPOSITE
78	A-78	SAW RX B34/39 50/50/100R 1511 RO	COMPOSITE
79	A-79	TD B34/B39 TX SAW 2*1.25*1 RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
80	A-80	IND HIGH 2.7NH +/-0.1NH CH0201 RO	COMPOSITE
81	A-81	SAW DPX UMTS BAND5 50/100/50 2.0*1.6 RO	COMPOSITE
82	A-82	CAP COG 6PF +/-0.25PF 50V 0201 RO	COMPOSITE
		CAP COG 6PF +/-0.25PF 50V 0201 RO	COMPOSITE
		CAP COG 6PF +/-0.25PF 50V 0201 RO	COMPOSITE
		CAP COG 6PF +/-0.5PF 25V 0201 RO	COMPOSITE
83	A-83	IND HIGH 3.3NH +/-0.1NH CH0201 RO	COMPOSITE
		IND HIGH 3.3NH +/-0.1NH CH0201 RO	COMPOSITE
		IND HIGH 3.3NH +/-0.1NH CH0201 RO	COMPOSITE
84	A-84	B5 RX SAW 1.1*0.9MM RO	COMPOSITE
85	A-85	RES 68K +/-1% 1/20W CH0201 RO	COMPOSITE
		RES 68K +/-1% 1/20W CH0201 RO	COMPOSITE
86	A-86	TVS 15V 0.05PF CH0201 RO	COMPOSITE
		TVS 12V 15.5PF DFN0603-2L(0201) RO	COMPOSITE
87	A-87	IND HQ 5.6NH+/-3% 0.68R 140MA CH0201 RO	COMPOSITE
		IND 5.6NH +/-0.3NH 0.4R 150MA CH0201 RO	COMPOSITE
88	A-88	IND HIGH 2NH ±0.1NH CH0201 RO	COMPOSITE
89	A-89	CAP COG 1PF +/-0.25PF 50V CH0201 RH	COMPOSITE
		CAP COG 1PF +/-0.25PF 50V CH0201 RO	COMPOSITE
90	A-90	IND HIGH 0.6NH +/-0.1NH CH0201 RO	COMPOSITE
		IND HIGH 0.6NH +/-0.1 CH0201 RO	COMPOSITE
		IND HIGH 0.6NH +/-0.1 CH0201 RO	COMPOSITE
91	A-91	CAP COG 2.2PF +/-0.25PF 50V CH0201 RO	COMPOSITE
		CAP COG 2.2PF +/-0.25PF 50V CH0201 RO	COMPOSITE



Part No.	Sample No.	Sample Description	Sample Material
92	A-92	TVS 4V 0.05PF CH0201 RO	COMPOSITE
93	A-93	TVS 5V 10PF DFN0603-2L(0201) RO	COMPOSITE
94	A-94	BI-TVS VRWM5V10PF DFNWB0.6*0.3-2L RO	COMPOSITE
95	A-95	SAW DPX UMTS BAND5 50/100/50 2.0*1.6 RO	COMPOSITE
96	A-96	SP6T DIVERSITY SWITCH 2*2MM RO	COMPOSITE
97	A-97	LOW PASS FILTER 824-915MHZ 0.65*0.5 RO	COMPOSITE
98	A-98	SAW TX FOR BAND17 1.1*0.9MM RO	COMPOSITE
99	A-99	SAW WCDMA 1880MHZ 100R/50R 2.0*1.6 RO	COMPOSITE
100	A-100	SAW DPX UMTS BAND4 50/100/50R 2.0*1.6 RO	COMPOSITE
101	A-101	HIGH ISOLATION X-SPDT (DP4T) SWITCH RO	COMPOSITE
102	A-102	SAW RX WCDMA B25 50/100R 1.1*0.9 RO	COMPOSITE
103	A-103	BB EDGE/TD/HSPA+/LTE 424BNSP 550MHZ RO	COMPOSITE
104	A-104	RF PA FDD-LTE BAND17 3*3MM QFN10 RO	COMPOSITE
105	A-105	PCB SIM7100A 10L HDI PCB V1.03 RH	COMPOSITE
106	A-106	B2 RX SAW 1.1*0.9MM RO	COMPOSITE
107	A-107	SAW DPX WCDMA B17 50/50/100R 2.0*1.6 RO	COMPOSITE
108	A-108	TVS 4V 0.05PF CH0201 RO	COMPOSITE
109	A-109	HIGH ISOLATION X-SPDT (DP4T) SWITCH RO	COMPOSITE
110	A-110	SAW RX WCDMA B25 50/100R 1.1*0.9 RO	COMPOSITE
111	A-111	NPN 50V 100MA R1=100K R2=100K SOT-723 RO	COMPOSITE
112	A-112	TVS 5V 0.55PF 双路 DFN1006-3L RO	COMPOSITE
113	A-113	TVS 5V 0.5PF 双路 DFN1006-3L RO	COMPOSITE
114	A-114	PMU WLNSP-105 3.87*4.44*0.55MM 0.4P RO	COMPOSITE
115	A-115	BB EDGE/TD/HSPA+/LTE 424BNSP 550MHZ RO	COMPOSITE

Part No.	Sample No.	Sample Description	Sample Material
116	A-116	RF PA FDD-LTE BAND17 3*3MM QFN10 RO	COMPOSITE
117	A-117	ASW SP14T GPIO QFN-22 2.5*2.9*1.0MM RO	COMPOSITE
118	A-118	PCB SIM7100A 10L HDI PCB V1.03 RH	COMPOSITE

3. Test Methods

3.1. Screening test by XRF spectroscopy

Element	Polymer	Metal	Composite Materials
Cd	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 50 - 3\sigma < D < 150 + 3\sigma \leq F$
Pb	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Hg	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Br	$P \leq 300 - 3\sigma < D$	----	$P \leq 250 - 3\sigma < D$
Cr	$P \leq 700 - 3\sigma < D$	$P \leq 700 - 3\sigma < D$	$P \leq 500 - 3\sigma < D$

Note: P = PASS

F = FAIL

The symbol "D" marks the region where further investigation is necessary.



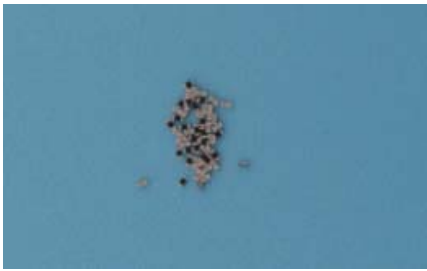

XRF testing results are only used for reference.





3.2. Chemical Test





Test item	Procedure	Apparatus	MDL(mg/kg)
Hg	With reference to IEC 62321-4-2013	ICP-OES	2
Cd & Pb	With reference to IEC 62321-5-2013	CV-AAS or ICP-OES	2
Cr ⁶⁺	With reference to IEC 62321-7-2:2017 (For Polymer and Electronics)	UV-VIS	2
	With reference to IEC 62321-7-1:2015 [▲] (For Plating on Metals)		0.1ug/cm ²
PBBs & PBDEs	With reference to IEC 62321-6:2015	GC-MS	5
Phthalates (DBP,BBP,DEHP,DIBP)	EN14372:2004	GC-MS	10

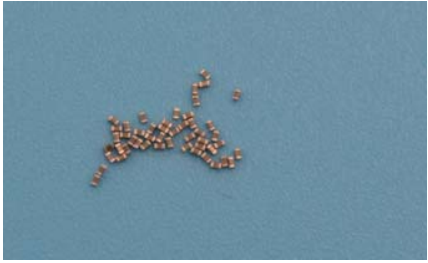
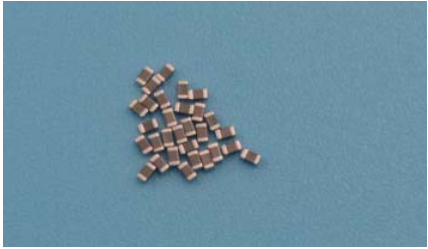
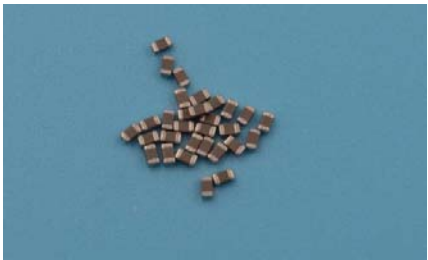

4. Test Results and Photographs of Sample

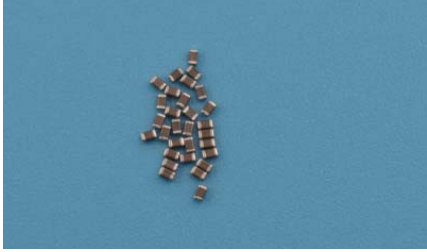


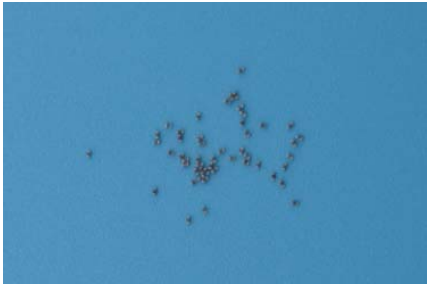
The results of XRF screening and chemical test (Unit: mg/kg)




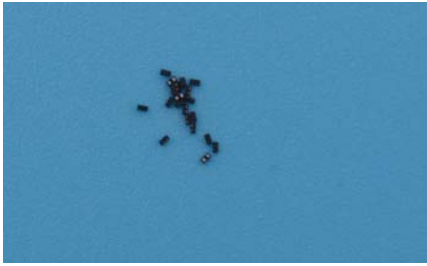
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
								
1	A-1		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
2	A-2		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
3	A-3		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						





No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
4	A-4		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
5	A-5		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
6	A-6		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
7	A-7		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						





No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
8	A-8		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
9	A-9		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
10	A-10		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
11	A-11		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						





No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
12	A-12		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
13	A-13		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
14	A-14		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
15	A-15		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						



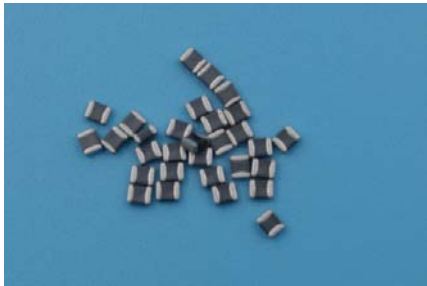
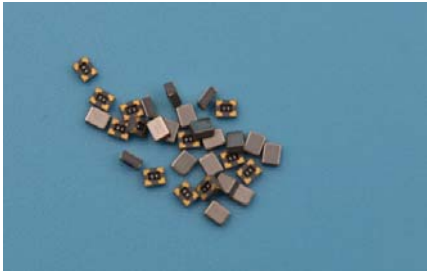
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
16	A-16		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
17	A-17		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
18	A-18		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
19	A-19		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


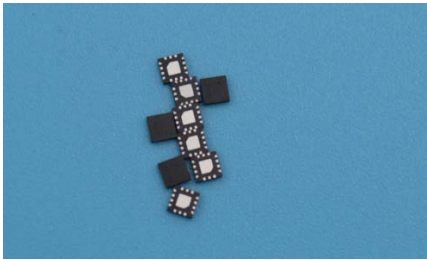
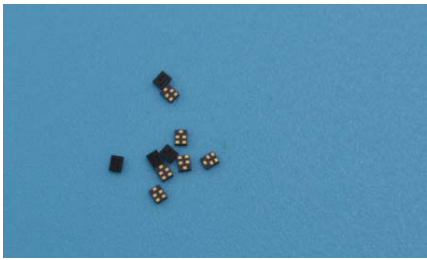
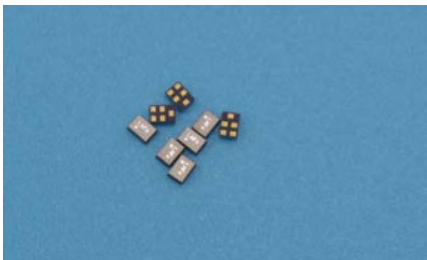
No.	Sample No.	Figure	X-ray Screening		chemical test		
			Element	Data	UV-Vis	ICP-OES	GC-MS
20	A-20		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
21	A-21		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
22	A-22		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
23	A-23		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.


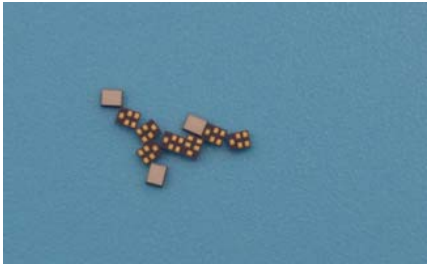
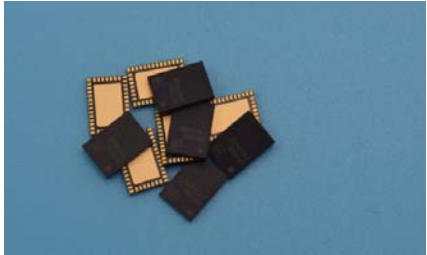

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
24	A-24		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
25	A-25		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
26	A-26		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
27	A-27		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

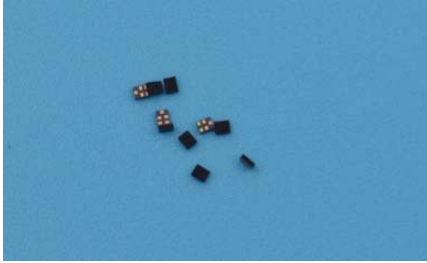
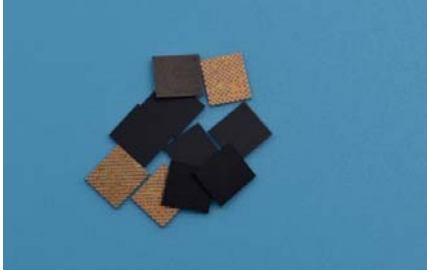

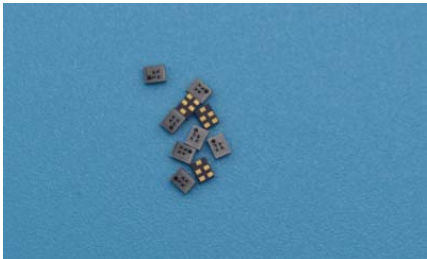
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
28	A-28		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
29	A-29		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
30	A-30		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
31	A-31		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


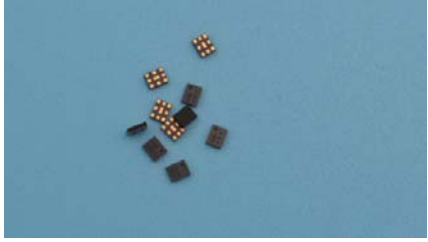
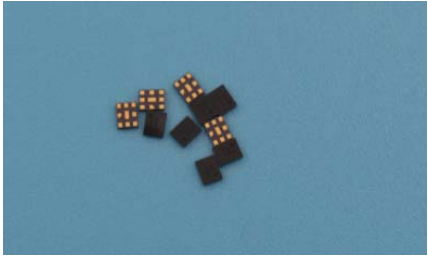
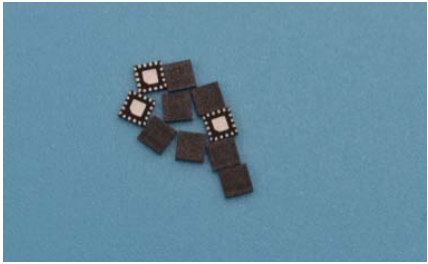
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
32	A-32		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
33	A-33		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
34	A-34		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
35	A-35		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

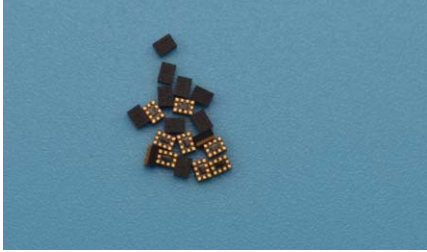



No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
36	A-36		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
37	A-37		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
38	A-38		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
39	A-39		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	

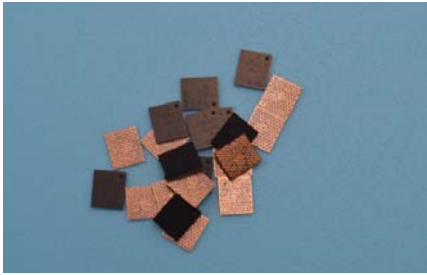

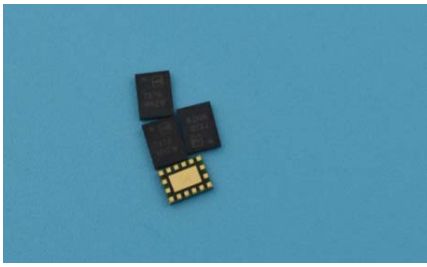
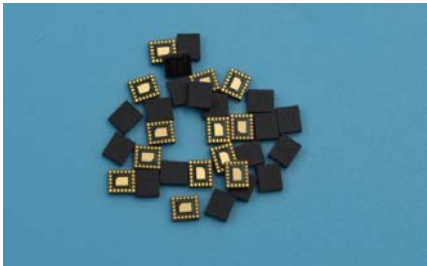
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
40	A-40		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
41	A-41		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
42	A-42		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
43	A-43		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

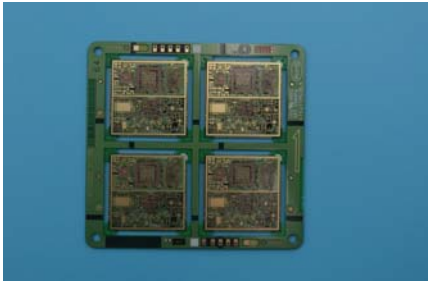
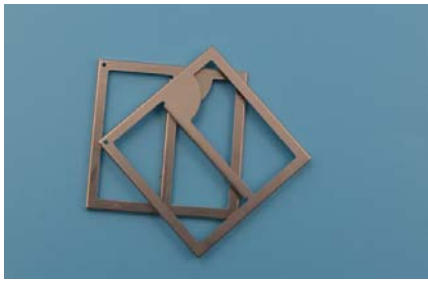
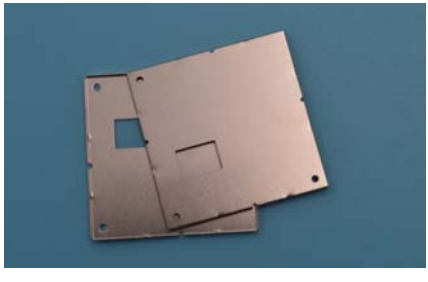

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
44	A-44		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
45	A-45		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
46	A-46		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
47	A-47		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	




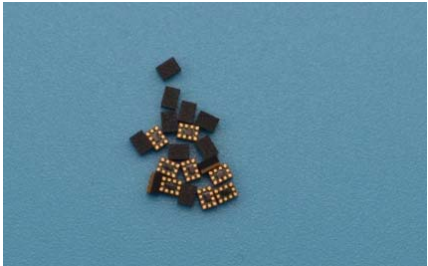
No.	Sample No.	Figure	X-ray Screening		chemical test		
			Element	Data	UV-Vis	ICP-OES	GC-MS
48	A-48		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
49	A-49		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
50	A-50		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.
51	A-51		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
DIBP							
							N.D.
							N.D.
							N.D.
							N.D.





No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
52	A-52		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
53	A-53		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
54	A-54		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
55	A-55		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						



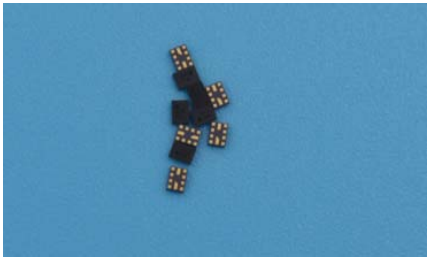

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
56	A-56		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
57	A-57		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
58	A-58		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
59	A-59		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


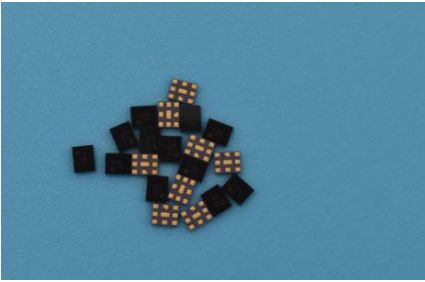


No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
60	A-60		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
61	A-61		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
62	A-62		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
63	A-63		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						





No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
64	A-64		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	790.30				
			Cr ⁶⁺					
			PBBs					N.D.
			PBDEs					N.D.
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
65	A-65		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	/				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					
			BBP					
			DEHP					
DIBP								
66	A-66		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	9.36×10 ⁴				
			Br	/				
			Cr ⁶⁺		Negative			
			PBBs					
			PBDEs					
			DBP					
			BBP					
			DEHP					
DIBP								
67	A-67		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


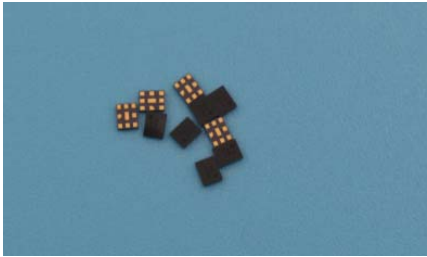


No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
68	A-68		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
69	A-69		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
70	A-70		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
71	A-71		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


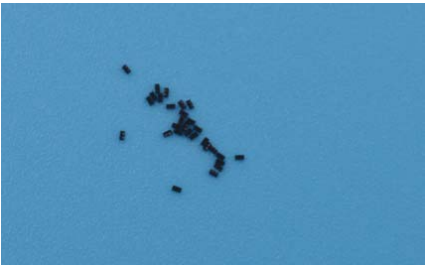


No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
72	A-72		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
73	A-73		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
74	A-74		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
75	A-75		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						



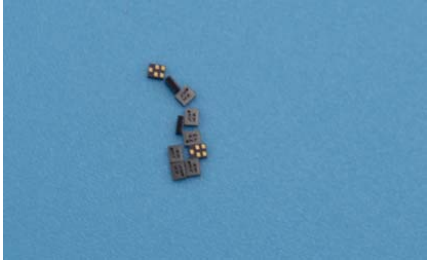
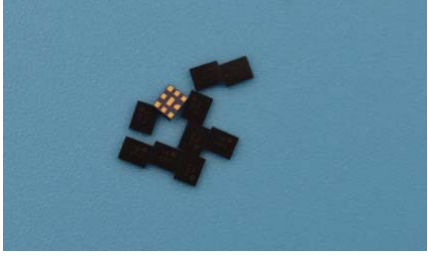
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
76	A-76		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
77	A-77		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
78	A-78		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
79	A-79		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.

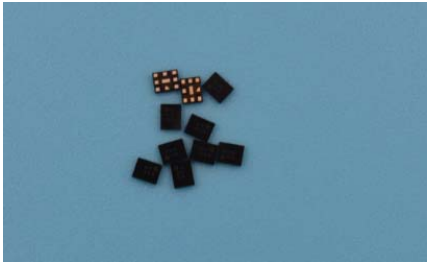
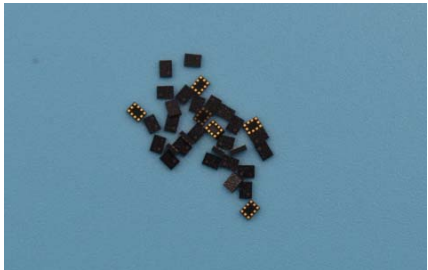
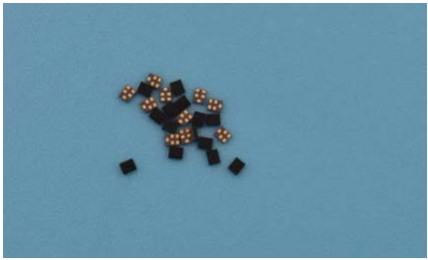
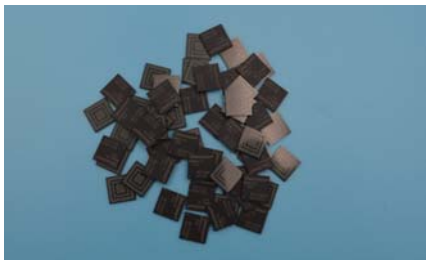
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
			DIBP				N.D.	
80	A-80		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
81	A-81		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
82	A-82		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
83	A-83		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
84	A-84		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
85	A-85		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
86	A-86		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
87	A-87		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						


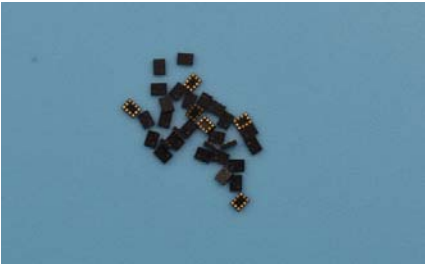
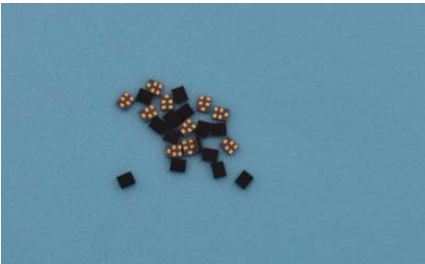

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
88	A-88		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
89	A-89		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
90	A-90		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
91	A-91		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	

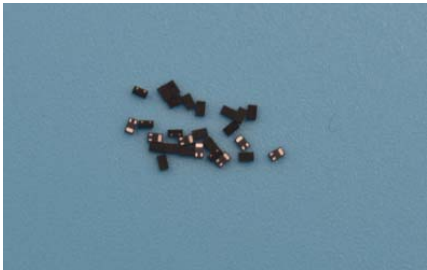


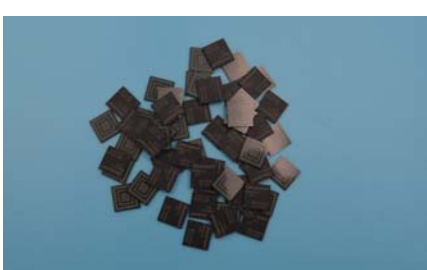
No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
92	A-92		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
93	A-93		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
94	A-94		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
95	A-95		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.

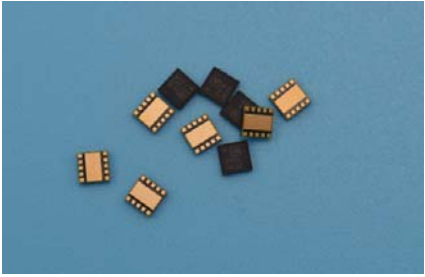
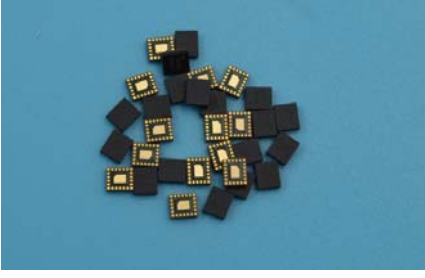

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
96	A-96		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
97	A-97		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
98	A-98		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	
99	A-99		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP				N.D.	

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
100	A-100		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
101	A-101		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
102	A-102		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.
103	A-103		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
			DIBP					N.D.

No.	Sample No.	Figure	X-ray Screening		chemical test		
			Element	Data	UV-Vis	ICP-OES	GC-MS
104	A-104		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				N.D.
			PBBs				N.D.
			PBDEs				N.D.
			DBP				N.D.
			BBP				N.D.
			DEHP				N.D.
DIBP		N.D.					
105	A-105		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	1.72×10 ³			
			Cr ⁶⁺				N.D.
			PBBs				N.D.
			PBDEs				N.D.
			DBP				N.D.
			BBP				N.D.
			DEHP				N.D.
DIBP		N.D.					
106	A-106		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				N.D.
			PBBs				N.D.
			PBDEs				N.D.
			DBP				N.D.
			BBP				N.D.
			DEHP				N.D.
DIBP		N.D.					
107	A-107		Pb	N.D.	/	/	/
			Cd	N.D.			
			Hg	N.D.			
			Cr	N.D.			
			Br	N.D.			
			Cr ⁶⁺				N.D.
			PBBs				N.D.
			PBDEs				N.D.
			DBP				N.D.
			BBP				N.D.
			DEHP				N.D.
DIBP		N.D.					

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
108	A-108		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
109	A-109		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
110	A-110		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
111	A-111		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
112	A-112		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
113	A-113		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
114	A-114		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
115	A-115		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

No.	Sample No.	Figure	X-ray Screening		chemical test			
			Element	Data	UV-Vis	ICP-OES	GC-MS	
116	A-116		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
117	A-117		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	N.D.				
			Cr ⁶⁺					
			PBBs					
			PBDEs					
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						
118	A-118		Pb	N.D.	/	/	/	
			Cd	N.D.				
			Hg	N.D.				
			Cr	N.D.				
			Br	1.72×10 ³				
			Cr ⁶⁺					
			PBBs					N.D.
			PBDEs					N.D.
			DBP					N.D.
			BBP					N.D.
			DEHP					N.D.
DIBP		N.D.						

Remark:

(1) mg/kg=ppm

(2) N.D. = Not Detected (< MDL);

(3)"/"= Not Conducted

(4)MDL = Method Detection Limit

 (5) ^a. The sample is negative for Cr⁶⁺ - the Cr⁶⁺ concentration is below the limit 0.10ug/cm². The coating is considered a non-Cr⁶⁺ based coating.

 b. The sample positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr⁶⁺.

 c. The result between 0.10ug/cm² and 0.13ug/cm² is considered to be inconclusive unavoidable



coating variations may influence the determination.

Annex A General Information

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Test Equipments Utilized

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	X-Ray Fluorescence Spectroscopy(XRF)	0102	EDX-1800B	Skyray	2017.05.23	2018.05.23
2	gas chromatograph-mass spectrometer (GC-MS)	CN10617090	6890-5975I	Agilent	2017.05.23	2018.05.23
3	ultraviolet-visible spectrophotometer(UV-Vis)	0153	UV-1100	Labtech	2017.05.23	2018.05.23
4	IPC-OES	842320072001	iCAP7200	Thermo	2017.05.23	2018.05.23

***** END OF REPORT *****