RoHS TEST REPORT No.I15Z42205-SEM01

Applicant Name:	Shanghai Simcom Limited
Applicant Address:	Building A, SIM Technology Building, No.633 Jinzhong Road, Changning District, Shanghai, P.R .China
Manufacture Name:	Shanghai Simcom Limited
Manufacture Address:	Building A, SIM Technology Building, No.633 Jinzhong Road, Changning District, Shanghai, P.R .China
Product Name:	Wireless Module
Product Model:	SIM7100C
Date of Sample received:	2015-08-31
Date of Test Finished:	2015-09-11
Test Requested:	With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC
Test Method:	Please refer to next page(s)
Test Result:	Please refer to next page(s)
Test Conclusion:	Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyl (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Chief tester: Ke Zhen

Audited by: Xiao Xu

Approved by: 卢毅刚

Date: 2015.9.11

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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Reference Method

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in the report.

(1) With reference to IEC 62321-3-1:2013, screening by EDXRF Spectroscopy;

(2) Wet Chemical Test Method:

a. With reference to IEC 62321-5:2013, determination of Cadmium and Lead by ICP-OES;

b. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES;

c. With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by spot test, with reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis;

d. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

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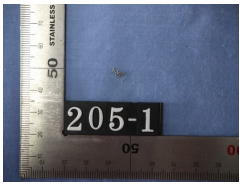
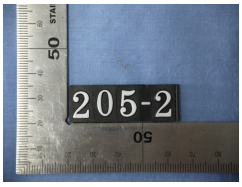
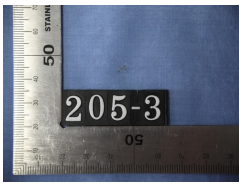
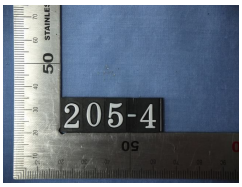
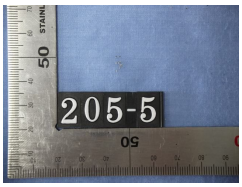
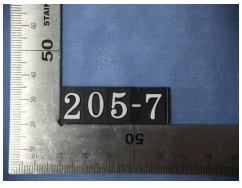
Test Results

Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
1	NCP15WD683J03RC	RES NTC 68KR +/-5% CH0402 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
2	RC0201FR-07100KL	RES MF 100K +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
3	0201WMJ0000TCE	RES MF 0R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
4	0201WMJ0103TCE	RES MF 10K +/-5% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
5	RC0201FR-07680RL	RES MF 680R +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
6	RC0201JR-0747RL	RES MF 47R +/-5% 1/16W CH 0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
7	RC0201FR-07150RL	RES MF 150R +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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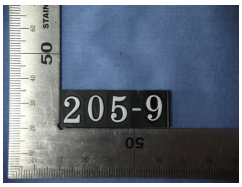
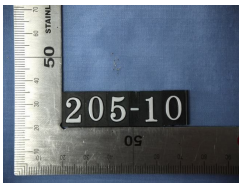
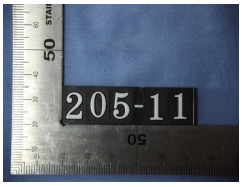
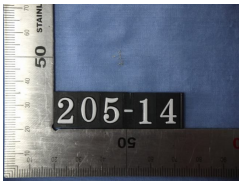
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
8	RC0201JR-0720KL	RES MF 20KR +/-5% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
9	RM02FTN2400	RES MF 240R +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
10	0201WMF2000TCE	RES MF 200R +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
11	0201WMF4751TCE	RES MF 4.75K +/-1% 1/20W CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
12	GRM033R60J105MEA2D	CAP X5R 1UF +/-20% 6.3V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
13	RM JMK063ABJ105MP-F	CAP X5R 1UF +/-20% 6.3V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
14	CL03A105MQ3CSNH	CAP X5R 1UF +/-20% 6.3V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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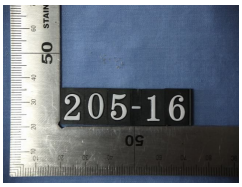
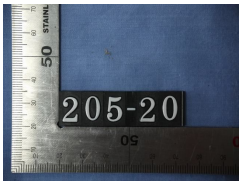
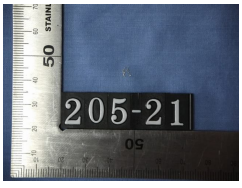
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
15	CC0201KRX5R6BB104	CAP X5R 100NF +/-10% 10V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
16	C0201C0G101J250NTA	CAP CM1 100PF +/5% 25V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
17	C0201X7R102K250NTA	CAP X7R 1NF +/-10% 25V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
18	C0201C0G330J250NTA	CAP COG 33PF +/-5% 25V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
19	GRM0335C1E330JA01D	CAP CM1 33PF +/-5% 25V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
20	C0201C0G1R0C500NTA	CAP COG 1PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
21	GRM0335C1HR50BA01D	CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				

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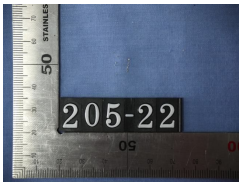
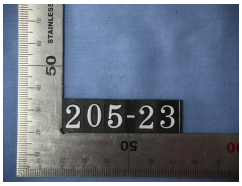
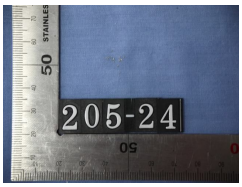
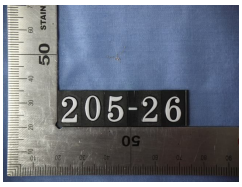
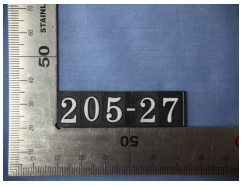
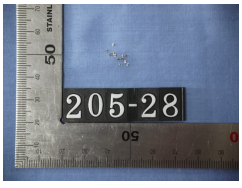
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
22	C0201C0G 0R5B500N TA	CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
23	C0201C0G 2R7C500N TA	CAP COG 2.7PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
24	C0201C0G 6R8C500N TA	CAP C0G 6.8PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
25	C0201C0G 1R5C500N TA	CAP COG 1.5PF +/-0.25P 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
26	C0201COG 1R8C500N TA	CAP COG 1.8PF +/-0.25P 50V CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
27	C0201COG 1R8C500N TA	CAP COG 1.8PF +/-0.25P 50V CH0201 RH	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
28	LMK105BB J475MVLF	CAP X5R 4.7UF +/-20% 10V CH0402 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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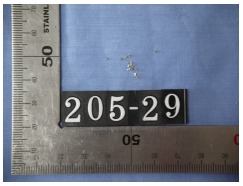
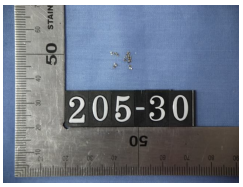
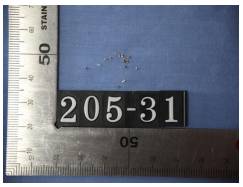
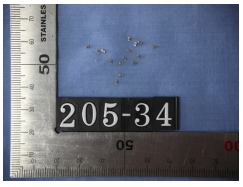
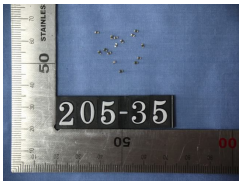
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
29	C0402X5R475M6R3NTC	CAP X5R 4.7UF +/-20% 6.3V 0402 +0.03 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
30	JMK105CBJ106MV-F	CAP X5R 10UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
31	GRM155R60J106ME44D	CAP X5R 10UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
32	CL10A226MQ8NRNE	CAP X5R 22UF +/-20% 6.3V CH0603*0.8 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
33	GRM186R60J226ME15D	CAP X5R 22UF +/-20% 6.3V CH0603*0.6 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
34	CL10A226MQ8NRNC	CAP X5R 22UF 6.3V +/-20% 0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
35	JMK107BBJ226MA-T	CAP X5R 22UF +/-20% 6.3V CH0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				

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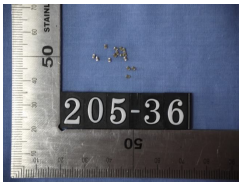
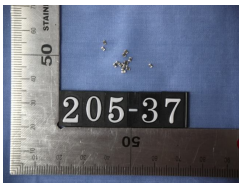
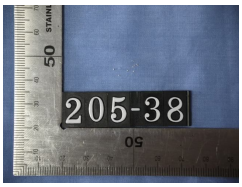
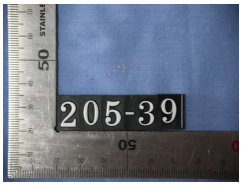
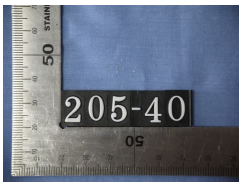
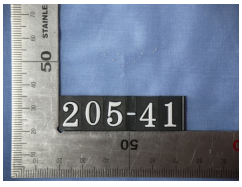
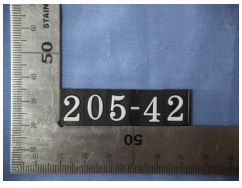
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
36	GRM188R60J476ME15D	CAP X5R 47UF +/-20% 6.3V CH0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
37	JDK107BBJ476MA-RE	CAP X5R 47UF +/-20% 6.3V CH0603 0.8MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
38	LQP03TN3N0B02D	IND FILM 3.0NH +/-0.1NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
39	SDCL0603Q6N8HT02B01	IND HQ 6.8NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
40	MLG0603P8N2HTZ10	8.2NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
41	LQP03TN8N2H02D	IND HQ CHIP COIL 8.2NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
42	LQP03TN1N2B02D	IND HQ 1.2NH +/0.1NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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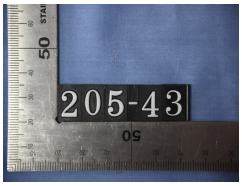
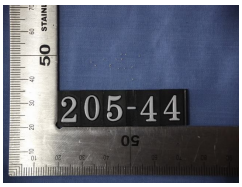
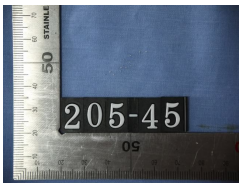
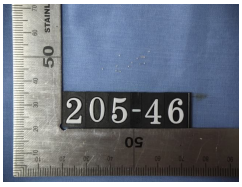
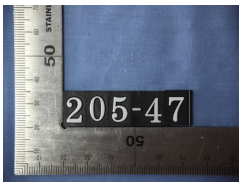
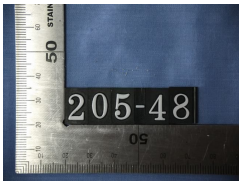
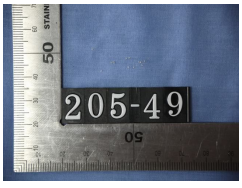
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
43	LQP03TN1N5B02D	IND HQ 1.5NH +/-1% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
44	SDCL0603Q1N5BT02B01	IND HQ 1.5NH +/-1% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
45	LQP03TN2N2B02D	IND FILM HQ 2.2NH +/-5% 220MA CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
46	SDCL0603Q2N2BT02B01	IND FILM HQ 2.2NH +/-0.1NH220MA CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
47	SDCL0603Q22NHT02B01	IND HIGH 22NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
48	LQP03TN22NH02D	IND HIGH 22NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
49	SDCL0603Q18NHT02B01	IND HIGH 18NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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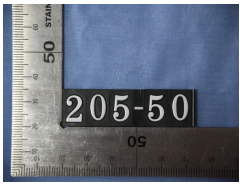
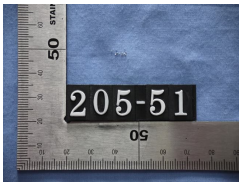
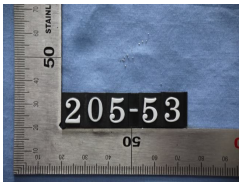
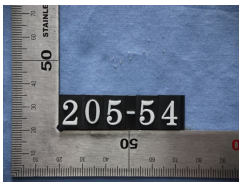
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
50	LQP03TN18NH02D	IND HIGH 18NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
51	LQP03TN10NH02D	IND HQ CHIP COIL 10NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
52	HK060315NJ-T	IND_HIGH_15NH_+/-5%_CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
53	LQP03TN15NH02D	IND HQ CHIP COIL 15NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
54	SDCL0603Q9N1HT02B01	IND FILM 9.1NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
55	MSDCL0603C4N7STDF	IND HQ CHIP COIL 4.7NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
56	MLG0603P4N7HTZ10	IND HIGH 4.7NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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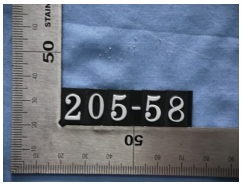
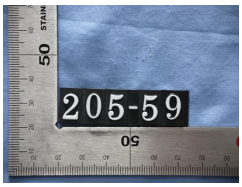
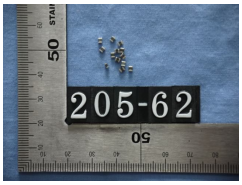
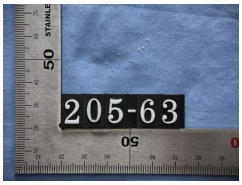
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
57	LQP03TN4N7H02D	IND HQ CHIP COIL 4.7NH +/-3% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
58	LQP03TN47NJ02D	IND HIGH 47NH +/-5% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
59	LQP03TN47NJ02	IND HIGH 47NH +/-5% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
60	LQM2MPN2R2MG0L	IND LOW 2.2UH +/-20% 1200MA CH2016 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
61	MLP2016S2R2MT	IND LOW 2.2UH +/-20% 1200MA CH2016 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
62	CMI-MMPR201610MH-2R2M	IND LOW 2.2UH +/-20% 1500MA CH2016 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
63	LQP03TN1N0B02D	IND HQ 1NH +/-0.1NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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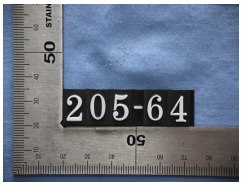
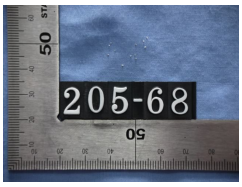
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
64	LQP03TN3N9B02D	IND HQ CHIP COIL 3.9NH +/-1% CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
65	LQP03TN2N7B02D	IND HIGH 2.7NH +/-0.1NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
66	LQP03TN2N4B02D	IND HQ 2.4NH +/-5% 220MA CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
67	HKQ0603S6N2C-T	IND HIGH 6.2NH +/-0.2NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
68	HK0603 6N2S-T	IND 6.2NH +/-0.3NH CH0201 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
69	AZ5A25-01F.R7G	TVS 5V 6PF DFN0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
70	CS081302	TVS 6V 12PF DFN0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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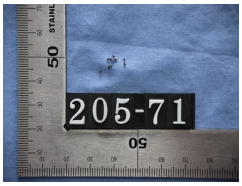
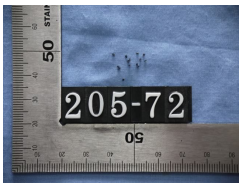
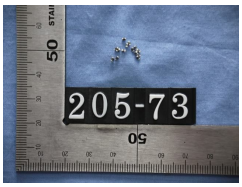
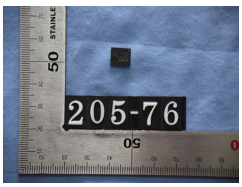
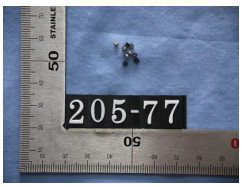
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
71	ESD5302N-3/TR	TVS 5V 0.5PF DFN1006-3L RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
72	AZ5315-02F	TVS 5V 0.55PF DFN1006-3L RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
73	PZ1608U221-1R4TF	BEAD 220R/100MHZ 1.4A 0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
74	BLM18PG221SN1	BEAD 220OHM@100MHZ 1400MA 0.1R CH0603 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
75	1RAE19200BAA	CRY XO 19.2MHZ ±10PPM 7PF CH2016 RO	Metal		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	-			
					Cr^{6+}				
					PBB	-			
					PBDE				
76	FM6AD2G1GA-5BAGE	MEMO 2G8NAND+1G3 2DDR 1.8V BGA130 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
77	RF1618TR7	ASW SP8T DRX GPIO 2*2*0.55MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				

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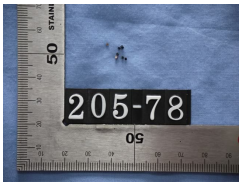
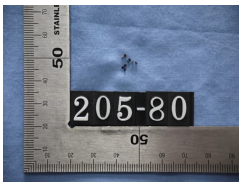
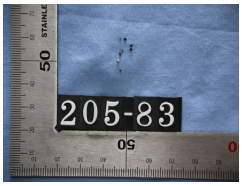
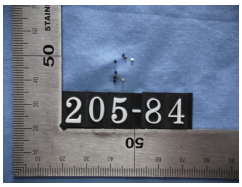
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
78	SAFFB2G60FA0F0A	B41 RX SAW 2555-2655MHZ 1109 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
79	F6KA2G605A4LA	B41 TX SAW 2555-2655MHZ 1411 RO	Metal		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	2.43×10^3			
					Br	-			
					Cr^{6+}	-	Negative		
					PBB		-		
					PBDE				
80	SAFFB2G35FB0F0A	BAND40 BALANCED RX SAW 11*09MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
81	F5QG942M5P2KB	BAND 8 RX SAW 50R/100R 1109 RO	Metal		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	-			
					Cr^{6+}	-			
					PBB				
					PBDE				
82	RF7388TR7	PA GSM/EDGE/UMTS/CDMA/TD/LTE 7*5 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
83	SAFFB1G58FA0F0AR15	SAW GPS/GLONASS 50/100R 1.1*0.9 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
84	SAFFB2G65FB0F0A	SAW RX WCDMA B7 50/100R 1.1*0.9 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

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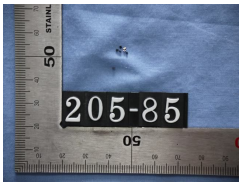
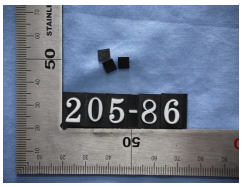
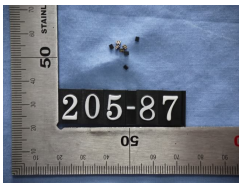
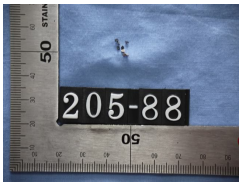
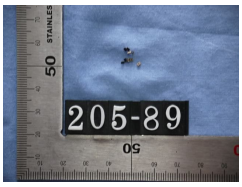
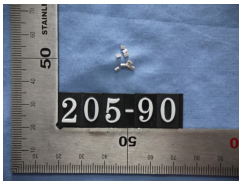
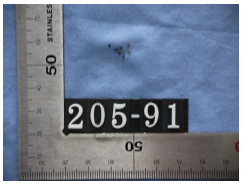
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
85	SAFFB2G14FA0F0AR15	SAW RX WCDMA BAND1 50/100R 1.1*0.9MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
86	WTR-1605 L-0-142WL NSP	TRX GSM/TD/EVDO/ WCDMA/LTE WLNSP142 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
87	SAYRF1G95HN0F0AR05	SAW DPX UMTS BAND1 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
88	SAFEA2G35MC0F00	BAND40 TX SAW FILTER 1.35*1.05 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
89	SAWFD1G90BH0F0A	SAW RX B34/39 50/50/100R 1511 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
90	LFL211G95TF2D298	TD B34/B39 TX SAW 2*1.25*1 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
91	XM0830SJ-DL0601	SPDT SWITCH 1.0*1.0*0.4MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				

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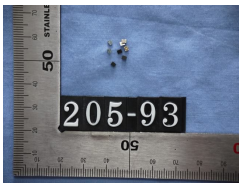
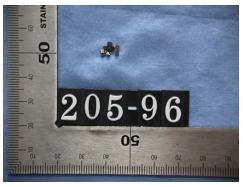
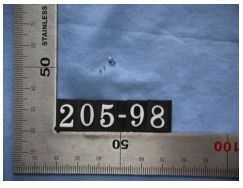
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
92	XM0830SJ-DL0612	GAASVERY SMALL1BIT CONTROLSPDT SWITCH RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
93	SAYFH2G53CC0F0A	SAW DPX BAND7 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
94	SAYFH1G74CA0B0A	SAW DPX BAND3 50/100R 2016 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
95	SAYFH897MHC0F0AR05	SAW DPX WCDMA900 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
96	SAYFH897MHC0F0A	SAW DPX WCDMA BAND8 50/100/50 2.0*1.6 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
97	RF1633	DIFFERENTIAL 3T SWITCH 2*2*0.55MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				
98	RF1630	RF SP2T 1.1X0.7 RFMD RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}				
					PBB	-			
					PBDE				

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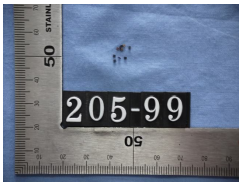
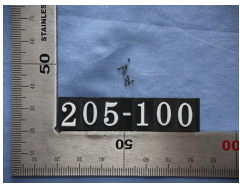
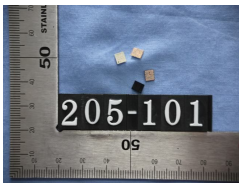
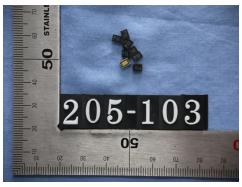
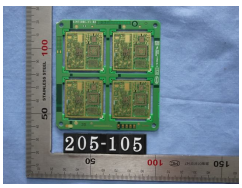
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
99	SAFFB1G84FC0F0A	SAW RX WCDMA B3 50/100R 1.1*0.9 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
100	RN1130MFV	NPN 50V 100MA R1=100K R2=100K SOT-723 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
101	PM-8018-0-105WLNSP-TR-02-1	PMU WLNSP-105 3.87*4.44*0.55 MM 0.4P RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
102	MDM-9215-0-424NSP-TR-06-2	BB EDGE/TD/HSPA+/LTE 424BNSP 550MHZ RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
103	RF7378TR13	PAM B7/38/40/41 3*4*0.9MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
104	RF1498TR7	ASW SP14T GPIO QFN-22 2.5*2.9*1.0MM RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				
105	SIM7100C_V1.03_PCB_100200	PCB SIM7100C 10L HDI PCB V1.03 RH	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	8.30×10^4			
					Cr^{6+}	-			
					PBB				N.D.
					PBDE				N.D.

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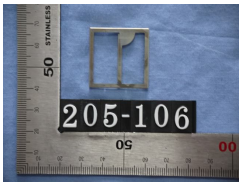
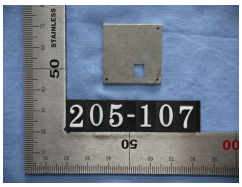
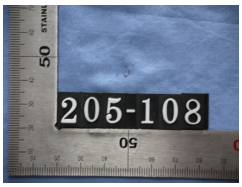
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data	Cr(VI)	Pb/Hg/Cd	PBB/PBDE
106	SHIELDING_FRAME_SIM7100_100320	SHIELDING FRAME SIM7100 RO	Metal		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	-			
					Cr^{6+}	-			
					PBB				
					PBDE				
107	SHIELDING_CASE_WITH_HOLE_SIM7100C-NEW_10	SHIELDING CASE WITH HOLE SIM7100C-NEW RO	Metal		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	1.88×10^5			
					Br	-			
					Cr^{6+}	-	Negative		
					PBB				
					PBDE				
108	TFSL060509 15-4108B1	LOW PASS FILTER 824-915MHZ 0.65*0.5 RO	Composite Materials		Pb	BL	-	-	-
					Cd	BL			
					Hg	BL			
					Cr	BL			
					Br	BL			
					Cr^{6+}	-			
					PBB				
					PBDE				

Note:

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Pb、Cd、Hg); UV-VIS(for Cr^{6+}) and GC-MS (for PBBs, PBDEs) is recommended to be performed.

(c) The XRF screening test for RoHs elements-The reading may be different to the actual content in the sample be of non-uniformity composition.

(d) With reference to 2006/66/EC Batteries Instruction method, Lead and Cadmium analysis are performed by AAS; Mercury analysis is performed by ICP-OES.

(2) (a) mg/kg=ppm=0.0001%, BL= Below Limit, N.D.= not detected, —— = not available.

(b) Unit and Method Detection Limit (MDL) in wet chemical test and XRF

Test Items	Pb	Cd	Hg	Cr	Br
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
XRF MDL	10.0	5.0	20.0	10.0	50.0
Wet Chemical Test MDL	1	1	1	—	—

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr^{6+} for polymer & composite sample is 1 mg/kg.

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(c) Spot-test：

Negative = Not Detected of Cr^{6+} coating, Positive = Presence of Cr^{6+} coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed or negative)

Boiling-water-extraction：

Negative = Not Detected of Cr^{6+} coating

Positive = Presence of Cr^{6+} coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50cm^2 sample surface area used.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr^{6+} represent status of the sample at the time of testing.

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Sample photo:

Photo 1 The sample of SIM7100C

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The Main Testing Equipment list

No.	Equipment Name	Model/spec	Equipment Serial Number	Calibration valid date	(√)
1.	XRF analyzer	Ux-310	F2008AA6	2016-06-30	√
2.	XRF analyzer	Ux-310	F2009521	2016-06-30	√
3.	XRF analyzer	Ux-310	F1162	2016-06-30	--
4.	XRF analyzer	XLT-797WZ	10740	2016-06-30	--
5.	XRF analyzer	SEA6000VX	106004050001	2016-07-01	√
6.	ICP-AES	5300DV	077N5072703	2016-07-08	--
7.	GC-MS	Clarus500	GC:650N5081051 MS:651N5072702	2016-07-20	√
8.	HPLC	e2695	G09SM4892A	2016-07-22	--
9.	LC-MSMS	API3200	LC:L20104611696AE MS:AA20320807	2015-11-07	--
10.	UV-VIS	Lambda 35	101N5081605	2015-10-18	--
11.	IC	ICS2000	09090780	2015-12-19	--
12.	Electronic balance	CP225D	50861713	2015-11-14	√
13.	Electronic balance	CPA225D	26192007	2016-04-03	--

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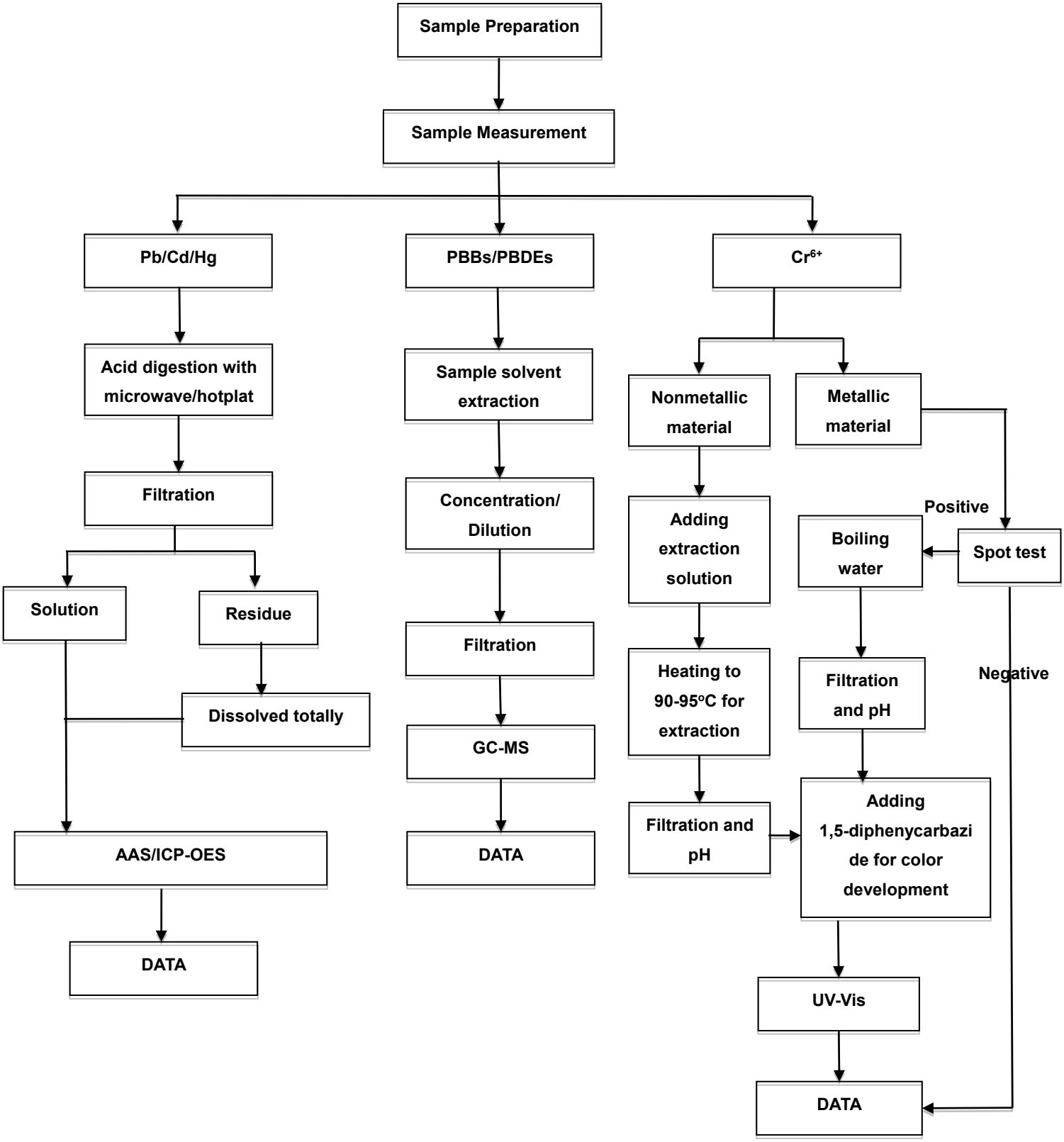
Measurement Flow-Chart of Chemical Testing

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



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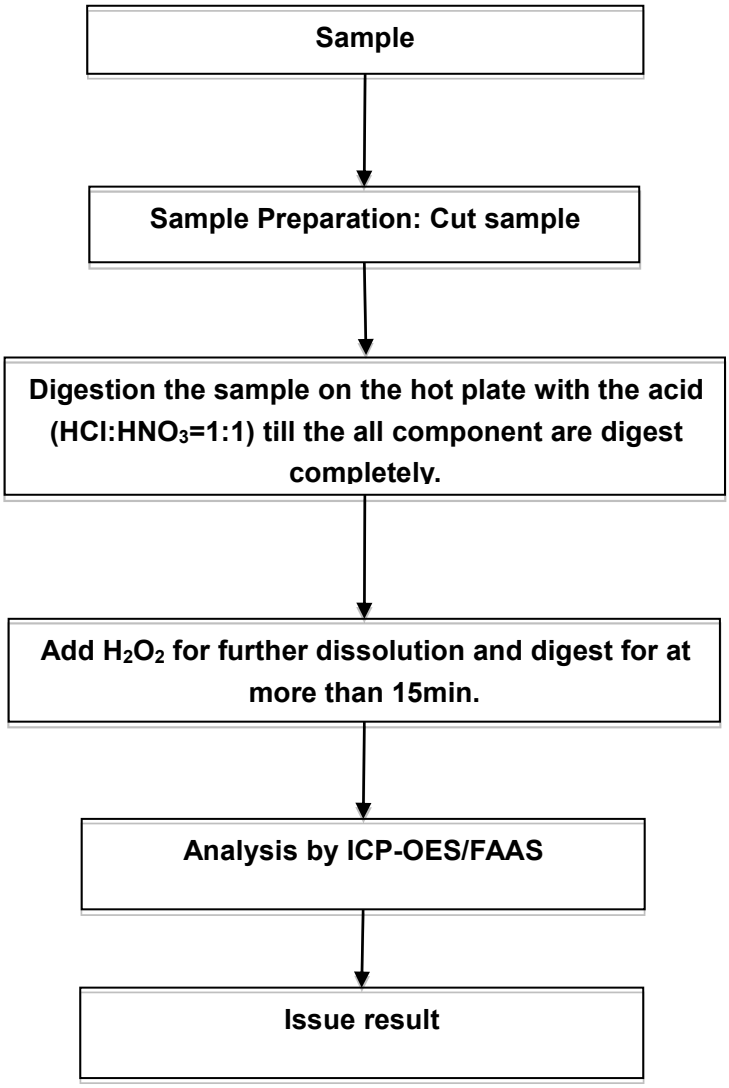
Test Flow Chart



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

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