



RoHS TEST REPORT No.I14Z49240-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: SIM5360A/SIM5360E/SIM5360J/SIM5360JD/SIM5360JE
Date of Sample received: 2014-12-29
Date of Test Finished: 2015-01-09
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: *Zhang Xianguang* Audited by: *Hao Xu*

Approved by: *Lu Chunyang* Date: *2015.1.9.*








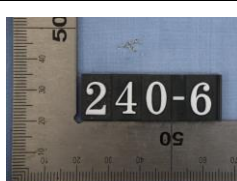

Note:








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.








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 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis;
 - d. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.








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			
1	0402WG J0000TC E	RES MF 0R +/-5% 1/16W CH 0402 RO	Composite Materials		Pb	15	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	38			
					Br	N.D.			
					Cr6+ PBB	-			
					PBDE				
2	RC0201 FR-0710 0KL	RES MF 100K +/-1% 1/20W CH0201 RO	Composite Materials		Pb	42	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	107			
					Br	N.D.			
					Cr6+ PBB	-			
					PBDE				
3	0201WM F1003TC E	RES MF 100K +/-1% 1/20W CH0201 RO	Composite Materials		Pb	320	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	15			
					Br	N.D.			
					Cr ⁶⁺ PBB	-			
					PBDE				
4	RC0201J R-070RL	RES MF 0R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	21	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	36			
					Br	N.D.			
					Cr ⁶⁺ PBB	-			
					PBDE				
5	RM02JT N0	RES MF 0R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	11	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+ PBB	-			
					PBDE				
6	RC0201J R-0751R L	RES_MF_51R +/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	141	-	-	-
					Cd	26			
					Hg	N.D.			
					Cr	56			
					Br	N.D.			
					Cr6+ PBB	-			
					PBDE				
7	0201WM J0510TC E	RES_MF_51R +/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	157	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	10			
					Br	N.D.			
					Cr6+ PBB	-			
					PBDE				





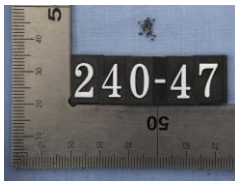


Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data			
8	RC0201J R-0751K L	RES_MF_51K_+/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	278	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	76			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
9	0201WM J0513TC E	RES_MF_51K_+/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	260	-	-	-
					Cd	9			
					Hg	N.D.			
					Cr	10			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
10	RC0201J R-07100 RL	RES_MF_100R_+/ 5%_1/20W_CH02 01 RO	Composite Materials		Pb	42	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	575			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
11	RC0201J R-0715K L	RES_MF_15K_+/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	165	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	418			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
12	0201WM J0153TC E	RES_MF_15K_+/- 5%_1/20W_CH02 01 RO	Composite Materials		Pb	224	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	24			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
13	RC0201J R-0710R L	RES MF 10R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	74	-	-	-
					Cd	46			
					Hg	N.D.			
					Cr	59			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
14	0201WM J0100TC E	RES MF 10R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	46	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	204			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									


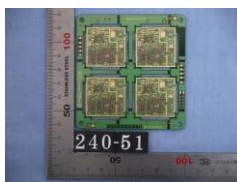





Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data			
15	RC0201J R-0722R L	RES MF 22R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	14	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	124			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
16	0201WM J0220TC E	RES MF 22R +/-5% 1/20W CH0201 RO	Composite Materials		Pb	209	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	12			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
17	RC0201J R-074K7 L	RES MF 4.7KR +/-5% 1/20W CH0201 RO	Composite Materials		Pb	38	-	-	-
					Cd	16			
					Hg	N.D.			
					Cr	148			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
18	0201WM J0472TC E	RES MF 4.7KR +/-5% 1/20W CH0201 RO	Composite Materials		Pb	155	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	98			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
19	RC0402 FR-074K 02L	RES MF 4.02KR +/-1% 1/16W CH0402 RO	Composite Materials		Pb	102	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	116			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
20	RC0201J R-0747R L	RES MF 47R +/-5% 1/16W CH 0201 RO	Composite Materials		Pb	89	-	-	-
					Cd	5			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
21	RC0201J R-07130 RL	RES MF 130R +/-5% 1/16W CH 0201 RO	Composite Materials		Pb	145	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	30			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									








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			
22	0201WM F499JTC E	RES MF 49.9R +/-1% 1/20W? CH0201 RO	Composite Materials		Pb	141	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	14			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
23	HK1005 10NJ-T	IND HIGH 10NH +/-5% CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
24	HK0603 5N6S-T	IND 5.6NH +/-0.3NH 0.4R 150MA CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
25	LQP03T N1N0B0 2D	IND HQ 1NH +/-0.1NH CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	10			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
26	LQP03T N3N9B0 2D	IND HQ CHIP COIL 3.9NH +/-1% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
27	LQP03T N8N2H0 2D	IND HQ CHIP COIL 8.2NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
28	LQP03T N7N5H0 2D	IND HQ CHIP COIL 7.5NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									








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			
29	LQP03T N9N1H0 2D	IND FILM 9.1NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	14			
					Hg	N.D.			
					Cr	N.D.			
					Br	52			
					Cr6+	-			
					PBB				
					PBDE				
30	LQP03T N2N2B0 2D	IND FILM HQ 2.2NH +/-5% 220MA CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
31	LLS0603 -FH12NT	IND HIGH 12NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
32	LLS0603 -FH10NT	IND HQ CHIP COIL 10NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	36			
					Cr6+	-			
					PBB				
					PBDE				
33	BLM18P G221SN 1	BEAD 220OHM@100MH Z 1400MA 0.1R CH0603 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
34	LQP03T N2N7B0 2D	IND HIGH 2.7NH +/-0.1NH CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
35	LQP03T N3N3B0 2D	IND HIGH 3.3NH +/-0.1NH CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	29			
					Cr6+	-			
					PBB				
					PBDE				








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			
36	LQP03T N10NH0 2D	IND HQ CHIP COIL 10NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
37	LQP03T N6N8H0 2D	IND HQ 6.8NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
38	LQP03T N4N3H0 2D	IND HIGH 4.3NH +/-3% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	17			
					Cr6+	-			
					PBB				
					PBDE				
39	PSE2520 1B-2R2 MS-39	IND LOW 2.2UH +/-20% CH2520 RH	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	231			
					Br	279			
					Cr6+	-			
					PBB				
					PBDE				
40	LQP03T N68NJ02 D	IND HIGH 68NH +/-5% CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
41	PZ1608U 221-1R4 TF	BEAD 220R/100MHZ 1.4A 0603 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	20			
					Hg	N.D.			
					Cr	22			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
42	LQM2M PN4R7M G0L	IND LOW 4.7UH +/-20% 1100MA CH2016 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				








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			
43	CKP201 64R7M-T	IND LOW 4.7UH +/-20% 900MA CH2016 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	205			
					Cr6+	-			
					PBB				
PBDE									
44	MAKK25 20T2R2 M	IND COIL 2.2UH +/-20% 1900MA CH2520 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	505			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
45	Q24FA2 0H00297 00	CRY XO 19.2MHZ 10PPM 7PF CH2520 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	99			
					Cr	N.D.			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
46	SC-32S(9PF,20P PM)	CRY 32.768K 9PF +/-20PPM 3.2*1.5 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
47	ESD9X5. 0ST5G	ESD VRWM=5.0V 65PF SOD923 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	88			
					Cr6+	-			
					PBB				
PBDE									
48	PESD5V 0S1BL	ESD VRWM=5.0V CD(TYP)=35PF SOD882 RO	Composite Materials		Pb	58	-	-	-
					Cd	12			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
49	DF2S6.8 FS (TL3,T)	ESD VZ(TYP)=6.8V CT=25PF 1.0X0.6MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	53			
					Cr6+	-			
					PBB				
PBDE									


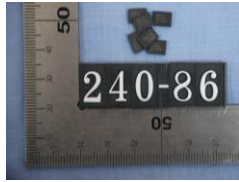
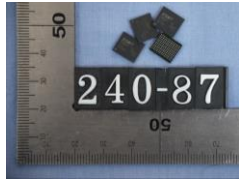




Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data			
50	2SC5585 TL	NPN VCEO=12V IC=500MA SOT523 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	99			
					Br	63			
					Cr6+	-			
					PBB				
PBDE									
51	SIM5360 _V1.03_ PCB	PCB SIM5360 MAIN HDI PCB V1.03 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	3.80x10³			
					Cr6+	-			
					PBB				
PBDE	N.D.								
52	CC0201 MRX5R5 BB105	CAP X5R 1UF +/-20% 6.3V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	100			
					Cr6+	-			
					PBB				
PBDE	N.D.								
53	CC0201 KRX5R5 BB473	CAP X5R 47NF +/-10% 6.3V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE	N.D.								
54	C0201X5 R473K6 R3NTA	CAP X5R 47NF +/-10% 6.3V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE	N.D.								
55	GRM033 R71E152 KA01D	CAP X7R 1.5NF +/-10% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	26			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE	N.D.								
56	C0201C0 G6R8C5 00NTA	CAP C0G 6.8PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE	N.D.								








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			
57	LMK105 BBJ475 MVLF	CAP X5R 4.7UF +/-20% 10V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
58	JMK105 CBJ106 MV-F	CAP X5R 10UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
59	CL10A2 26MQ8N RNC	CAP X5R 22UF 6.3V +/-20% 0603 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
60	CL10A2 26MQ8N RNE	CAP X5R 22UF +/-20% 6.3V CH0603*0.8 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	22			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
61	GRM155 R60J106 ME44D	CAP X5R 10UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
62	JMK107 BBJ226 MA-T	CAP X5R 22UF +/-20% 6.3V CH0603 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
63	C0603X5 R106M6 R3NTK	CAP X5R 10UF +/-20% 6.3V CH0603 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	12			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				








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			PBB/PBDE
64	C0201C0 G100J50 0NTA	CAP C0G 10PF +/-5% 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	10			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
65	C0201C0 G220J50 0NTA	CAP COG 22PF +/-5% 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
66	C0201C0 G390J25 0NTA	CAP COG 39PF +/-5% 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
67	C0201X5 R224M6 R3NTJ	CAP X5R 220NF +/-20% 6.3V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
68	C0201X5 R104K10 0NTA	CAP X5R 100NF +/-10% 10V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	88			
					Cr6+	-			
					PBB				
PBDE									
69	C0201X7 R221K25 0NTA	CAP X7R 220PF +/-10% 25V CH0201 RO	Composite Materials		Pb	193	-	-	-
					Cd	13			
					Hg	N.D.			
					Cr	127			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
70	C0201C OG1R8C 500NTA	CAP COG 1.8PF +/-0.25P 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									

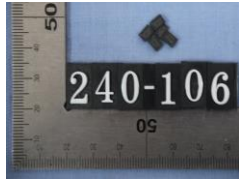
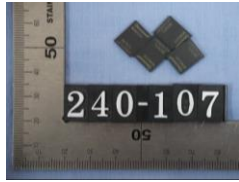
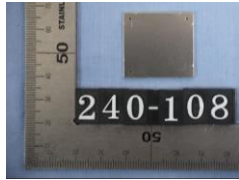
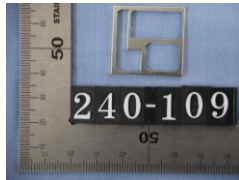
Test results (Unit: mg/kg)									
No.	Part No.	Description	Material type	Figure	X-ray Screening		Spot-test /UV-vis	ICP-OES	GC/MS for PBB/PBDE
					Element	Data			
71	C0201C0 G101J25 0NTA	CAP CM1 100PF +/-5% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
72	CC0201J RNPO8B N220	CAP CM1 22PF +/-5% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
73	CC0201 KRX7R8 BB102	CAP X7R 1NF +/-10% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
74	C0201X7 R102K25 0NTA	CAP X7R 1NF +/-10% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	19			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
75	C0201C0 G330J25 0NTA	CAP COG 33PF +/-5% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	11			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
76	CM05CG 2R0C50 AH	CAP COG 2PF +/-0.25PF 50V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
77	CL05A2 25MQ5N SNC	CAP X5R 2.2UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	49			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									

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			
78	C0402X5 R225M6 R3NTB	CAP X5R 2.2UF +/-20% 6.3V CH0402 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	8			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
79	C0201C0 G4R7C5 00NTA	CAP COG 4.7PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
80	GRM033 5C1H2R 2CA01D	CAP COG 2.2PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
81	C0201C0 G0R5B5 00NTA	CAP COG 0.5PF +/-0.1PF 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	22			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
82	GRM033 5C1E820 JA01D	CAP COG 82PF 5% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	10			
					Hg	N.D.			
					Cr	15			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
83	C0201C0 G820J25 0NTA	CAP COG 82PF 5% 25V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	12			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				
84	C0201C0 G7R0C5 00NTA	CAP COG 7PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
					PBDE				

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			
85	C0201C0 G2R7C5 00NTA	CAP COG 2.7PF +/-0.25PF 50V CH0201 RO	Composite Materials		Pb	10	-	-	-
					Cd	17			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
86	PM8015- 0-136NS P	PMU FOR MDM6200 NSP-136 5*7*0.89MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
87	FM64D1 G12A-5B AGE	MEMO 1G16NAND+512M 16DDR1 1.8V BGA130 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	5			
					Hg	232			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
88	ESD9L5. 0ST5G	TVS 5V 0.5PF SOD-923 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	12			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
89	ESD9M5 .0ST5G	TVS 5V 2.5PF SOD-923 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
90	ESD9X5 VD-2/TR	ESD 5.0V 50PF SOD923 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	59			
					Cr6+	-			
					PBB				
PBDE									
91	LMSP2P QK-857T EMP	ASM SP9T Q-BAND GSM/TD/UMTS*3 2.5*2.5 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									

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			PBB/PBDE
92	SAFFB1 G58FA0 F0AR15	SAW GPS/GLONASS 50/100R 1.1*0.9 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	163			
					Cr	181			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
93	SAFFB2 G14FA0 F0AR15	SAW RX WCDMA BAND1 50/100R 1.1*0.9MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	218			
					Cr	165			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
94	SAFFB9 42MFL0 F0AR15	SAW RX GSM900 50/150R 1.1X0.9 RO	Composite Materials		Pb	20	-	-	-
					Cd	N.D.			
					Hg	182			
					Cr	147			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
95	SAWFD1 G84BH0 F0A	SAW FILTER FOR GSM 1800/1900 1.5*1.1 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	90			
					Cr	80			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
96	D6PE2G 140P3A W-Z	SAW DPX UMTS BAND1 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	27	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	138			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
97	FAR-D5 PE-881M 50-P3EZ -Z	SAW DPX UMTS BAND5 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	11	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	117			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
98	SAFFB8 81MFM0 F0A	B5 RX SAW 1.1*0.9MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	180			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									

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			
99	SAFFB1 G96FN0 F0A	B2 RX SAW 1.1*0.9MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	152			
					Cr	104			
					Br	160			
					Cr6+	-			
					PBB				
PBDE									
100	TQM7M6 125	RF DUAL-BROADBAND WCDMA/CDMA PA 3*4MM RO	Composite Materials		Pb	30	-	-	-
					Cd	54			
					Hg	N.D.			
					Cr	52			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
101	D6PE1G 960P3B P-Z	SAW DPX UMTS BAND2 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	33	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	57			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
102	SAFFB8 81MFL0 F0A	GSM850 RX SAW 1.1*0.9MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	5			
					Hg	164			
					Cr	120			
					Br	75			
					Cr6+	-			
					PBB				
PBDE									
103	SAFFB9 42MFM0 F0A	B8 RX SAW 1.1*0.9MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	150			
					Cr	123			
					Br	233			
					Cr6+	-			
					PBB				
PBDE									
104	D5PE94 2M5P3G T	SAW DPX UMTS BAND8 50/100/50R 2.0*1.6 RO	Composite Materials		Pb	15	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									
105	DPX162 170DT-8 022B1	DIPLEXER FOR HB&LB 1.6*0.8MM RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	173			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									

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			
106	TQM7M5 050	RF PA QUAD-BAND GSM/EDGE 5X3.5 RO	Composite Materials		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
107	MDM620 0-0-486N SP	BB+RF TRX HSPA+/WCDMA/ GSM DM NSP486 RO	Composite Materials		Pb	22	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	N.D.			
					Br	N.D.			
					Cr6+	-			
					PBB				
PBDE									
108	SIM5360 SHIELDI NG COVER 100320 RO	SIM5360_SHIELDI NG_COVER_1003 20 RO	Metal		Pb	42	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	1.90×10 ⁵			
					Br	-			
					Cr6+	-	N.D.		
					PBB		-		
PBDE									
109	SIM5360 SHIELDI NG FRM NEW 100320	SIM5360_SHIELDI NG_FRM_NEW_1 00320 RO	Metal		Pb	N.D.	-	-	-
					Cd	N.D.			
					Hg	N.D.			
					Cr	123			
					Br	-			
					Cr6+	-			
					PBB				
PBDE									

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 Cr⁶⁺ for polymer & composite sample is 1 mg/kg.

(c) Spot-test:

Negative = Not Detected of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ 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 Cr⁶⁺ coating

Positive = Presence of Cr⁶⁺ coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50cm² sample surface area used.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr⁶⁺ represent status of the sample at the time of testing.

Sample photo:



Photo 1 The front of SIM5360A



Photo 2 The front of SIM5360E



Photo 3 The front of SIM5360J

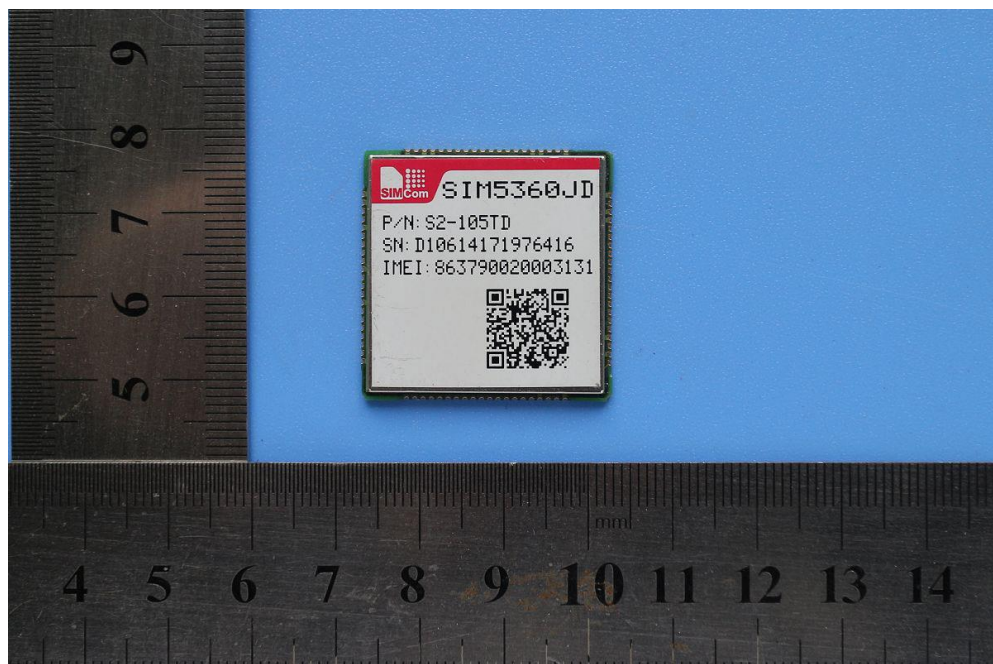


Photo 4 The front of SIM5360JD



Photo 5 The front of SIM5360JE

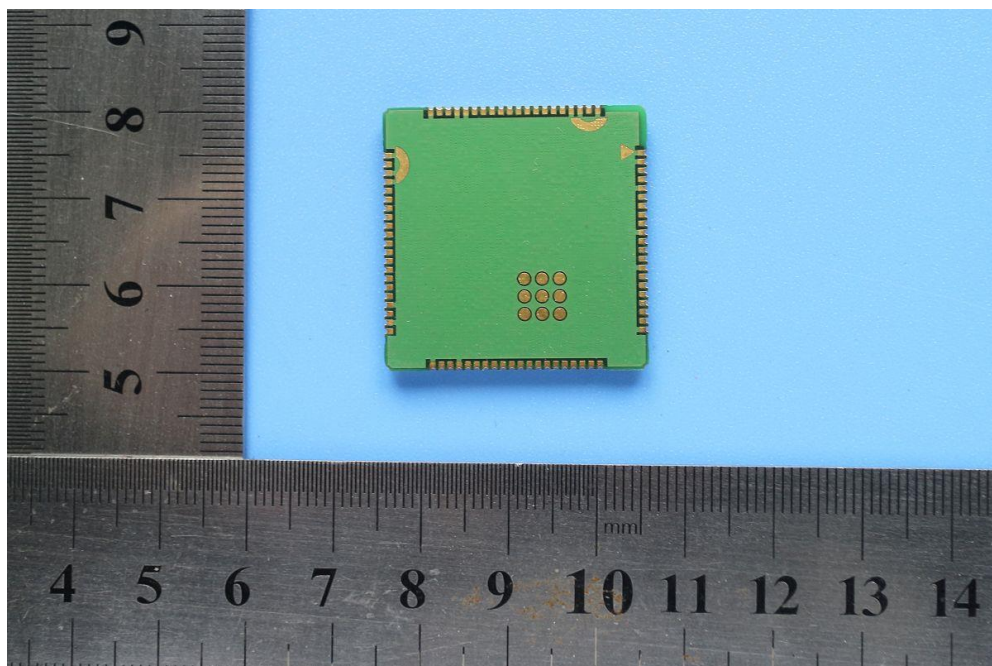


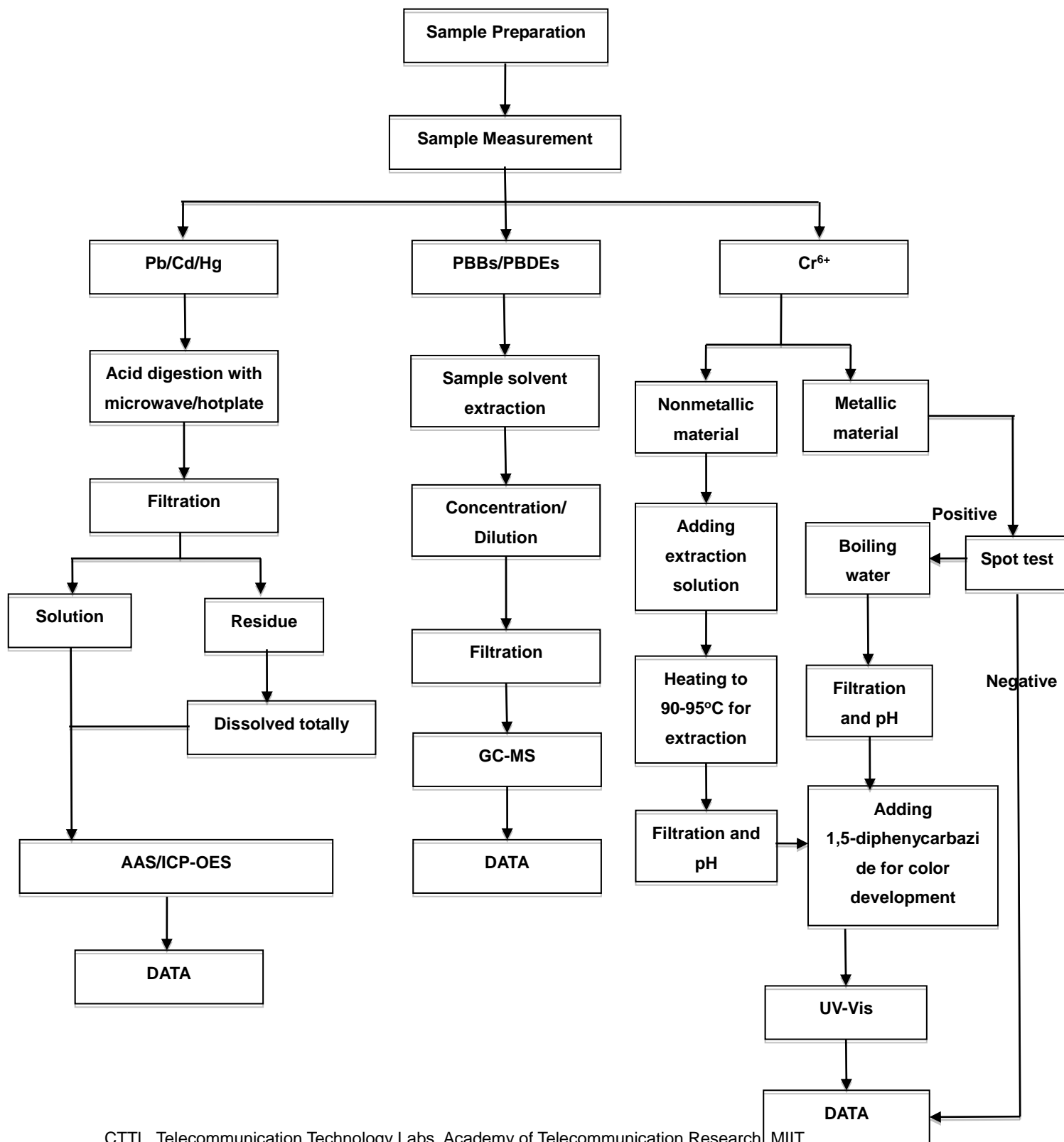
Photo 6 The back of SIM5360

The Main Testing Equipment list

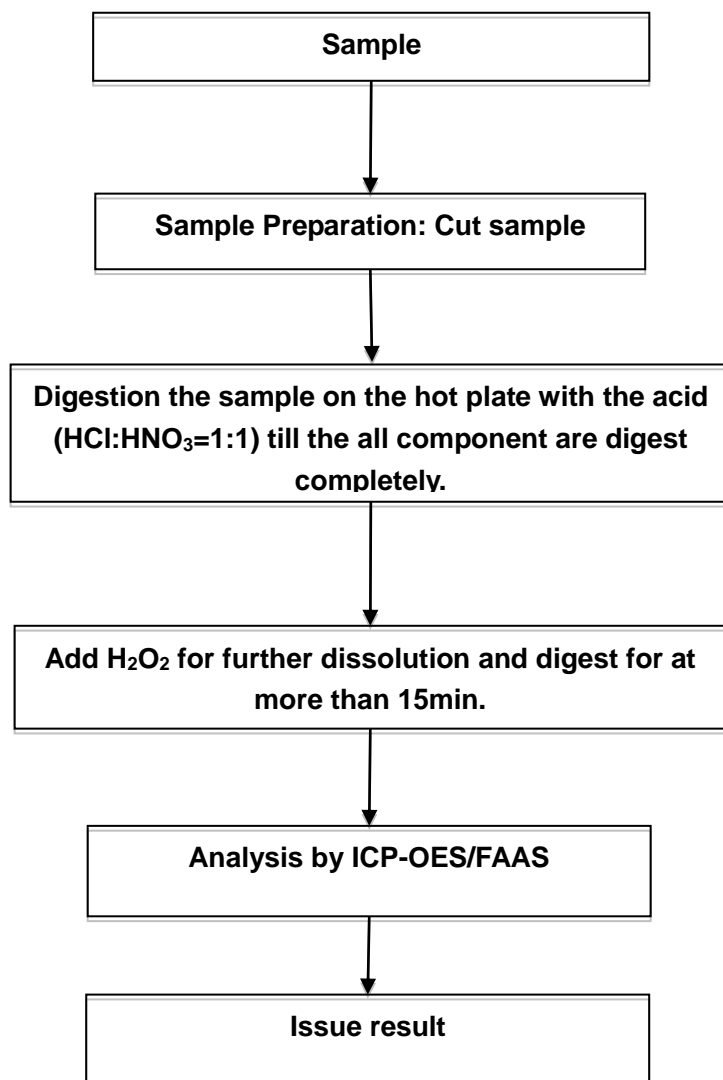
No.	Equipment Name	Model/spec	Equipment Serial Number	Calibration valid date	(√)
1.	XRF analyzer	Ux-310	F2008AA6	2015-07-01	√
2.	XRF analyzer	Ux-310	F2009521	2015-07-01	--
3.	XRF analyzer	Ux-310	F1162	2015-07-01	--
4.	XRF analyzer	XLT-797WZ	10740	2015-07-01	--
5.	XRF analyzer	SEA6000VX	106004050001	2015-07-02	√
6.	ICP-AES	5300DV	077N5072703	2015-07-09	--
7.	GC-MS	Clarus500	GC:650N5081051 MS:651N5072702	2015-07-21	√
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	2015-04-03	√

Measurement Flow-Chart of Chemical Testing

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



Test Flow Chart



END OF REPORT