



**Dr. Joe Xie**

**AUSTRALIAN HUALONG Pty Ltd**

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*Lab Ref*      BT087076

*Client Ref*    **1107-1169**

*Project*       \*

*Cost Code*

*Status*        Final

*Received*     07/03/19

*Reported*     28/03/19

*Samples*      63

*First Sample*   1107

*Last Sample*    1169

*Pages*          8

*Copy*

*Notes*

*Authorised by*

Wayne Taylor

Laboratory Manager

*On behalf of:*

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## ANALYTICAL REPORT

Scheme	XRF75E	XRF75E	XRF75E	XRF75E	XRF75E	XRF75E
Units	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.1	0.1	0.01	0.1
Upper Limit	90	90	90	90	20	50
	Sn	As	Fe	S	Mn	MgO
1107	0.02	<0.01	6.0	8.6	<0.01	0.9
1108	0.01	0.01	13.6	9.0	0.11	2.0
1109	<0.01	<0.01	3.6	6.1	<0.01	1.5
1110	<0.01	<0.01	0.8	<0.1	<0.01	<0.1
1111	<0.01	0.01	12.1	20.2	<0.01	0.7
1112	<0.01	<0.01	4.1	11.2	<0.01	0.5
1113	<0.01	<0.01	8.9	13.4	0.71	1.1
1114	<0.01	<0.01	20.8	4.8	5.06	1.2
1115	<0.01	<0.01	7.6	4.5	1.48	0.6
1116	<0.01	<0.01	30.8	2.9	9.28	1.8
1117	<0.01	<0.01	17.2	2.9	5.04	0.7
1118	<0.01	<0.01	32.3	0.6	9.83	1.2
1119	<0.01	<0.01	28.6	5.1	8.13	2.2
1120	<0.01	<0.01	28.8	4.1	7.48	1.2
1121	<0.01	<0.01	29.1	4.0	8.96	2.0
1122	<0.01	<0.01	11.2	2.5	4.38	6.7
1123	<0.01	<0.01	8.1	1.3	3.73	6.4
1124	<0.01	<0.01	15.3	0.9	7.04	5.0
1125	0.02	<0.01	27.3	2.1	9.58	2.5
1126	<0.01	<0.01	31.7	1.2	9.34	2.2
1127	<0.01	<0.01	11.7	3.2	2.68	3.1
1128	<0.01	<0.01	12.9	2.3	2.55	4.2
1129	<0.01	<0.01	7.7	3.3	2.05	5.1
1130	<0.01	0.01	8.3	1.8	2.07	6.7
1131	<0.01	<0.01	13.1	2.8	2.13	5.9
1132	<0.01	<0.01	1.0	<0.1	0.02	<0.1
1133	<0.01	<0.01	13.7	8.8	0.14	2.2
1134	<0.01	<0.01	11.5	1.8	1.35	5.0
1135	<0.01	<0.01	12.1	2.0	3.08	3.2
1136	0.01	<0.01	7.2	3.5	0.12	1.0
1137	0.01	<0.01	4.5	3.7	0.52	0.3
1138	<0.01	<0.01	1.0	<0.1	0.06	<0.1
1139	<0.01	<0.01	31.6	1.5	9.01	2.1
1140	<0.01	<0.01	14.0	8.8	0.12	2.0
1141	<0.01	<0.01	9.7	2.7	0.81	0.5
1142	<0.01	<0.01	5.4	2.9	0.66	0.5
1143	<0.01	<0.01	9.4	0.8	1.69	0.3
1144	<0.01	<0.01	17.0	0.7	2.83	0.4

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## ANALYTICAL REPORT

	XRF75E % 0.01 90 Sn	XRF75E % 0.01 90 As	XRF75E % 0.1 90 Fe	XRF75E % 0.1 90 S	XRF75E % 0.01 20 Mn	XRF75E % 0.1 50 MgO
1145	0.01	<0.01	3.6	2.0	0.32	0.6
1146	<0.01	<0.01	5.3	0.6	0.07	1.1
1147	<0.01	<0.01	1.2	0.2	0.05	1.3
1148	<0.01	<0.01	4.2	6.1	0.04	1.1
1149	<0.01	<0.01	2.7	2.3	0.02	0.9
1150	<0.01	<0.01	3.1	5.1	0.01	1.1
1151	<0.01	<0.01	2.3	3.6	<0.01	1.0
1152	<0.01	<0.01	2.4	1.9	0.08	<0.1
1153	<0.01	<0.01	1.8	1.9	0.02	0.7
1154	<0.01	<0.01	0.7	0.4	0.05	1.0
1155	<0.01	0.02	15.6	3.9	3.03	0.4
1156	<0.01	<0.01	33.6	2.4	9.41	0.3
1157	<0.01	<0.01	30.7	5.3	8.45	1.3
1158	<0.01	<0.01	36.1	1.5	9.48	1.7
1159	<0.01	0.01	36.9	1.5	9.33	1.4
1160	<0.01	<0.01	36.1	2.5	9.06	1.3
1161	<0.01	<0.01	1.5	<0.1	0.12	<0.1
1162	<0.01	<0.01	26.6	2.1	7.38	1.0
1163	<0.01	<0.01	33.5	4.7	3.67	0.4
1164	<0.01	<0.01	14.0	8.7	0.20	2.2
1165	<0.01	<0.01	11.0	7.7	1.58	1.4
1166	<0.01	<0.01	9.2	6.1	1.70	1.3
1167	<0.01	<0.01	28.9	12.7	5.97	1.2
1168	<0.01	<0.01	27.0	2.4	5.79	1.1
1169	<0.01	<0.01	15.7	5.2	3.23	1.3

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## ANALYTICAL REPORT

Scheme	XRF75E	XRF75E	XRF75E	XRF75E	XRF75E	AAS40Q
Units	%	%	%	%	%	PPM
Detection Limit	0.1	0.01	0.01	0.01	0.01	2
Upper Limit	50	5	50	5	5	200
	Ca	WO3	Cu	Pb	Zn	Ag
1107	0.4	<0.01	<0.01	0.49	0.18	4
1108	3.9	<0.01	0.27	1.07	2.52	22
1109	<0.1	<0.01	<0.01	0.85	0.89	9
1110	<0.1	<0.01	<0.01	0.01	<0.01	<2
1111	<0.1	<0.01	<0.01	2.37	1.43	14
1112	<0.1	<0.01	0.02	>5.00	2.23	79
1113	<0.1	<0.01	<0.01	>5.00	3.00	43
1114	0.2	<0.01	<0.01	4.18	0.80	38
1115	<0.1	<0.01	<0.01	1.34	0.84	10
1116	0.9	<0.01	<0.01	1.47	0.58	10
1117	0.5	<0.01	<0.01	0.49	0.47	5
1118	2.2	<0.01	<0.01	0.09	0.22	<2
1119	1.3	<0.01	0.03	>5.00	3.67	94
1120	0.5	<0.01	0.02	>5.00	0.38	150
1121	0.7	<0.01	0.03	>5.00	0.85	139
1122	13.1	<0.01	<0.01	1.43	2.32	10
1123	16.9	<0.01	<0.01	0.80	0.75	6
1124	13.4	<0.01	<0.01	0.24	0.72	3
1125	2.4	0.01	<0.01	1.15	1.87	8
1126	1.8	<0.01	<0.01	0.75	1.11	6
1127	6.4	<0.01	<0.01	0.27	0.74	9
1128	9.8	<0.01	<0.01	0.18	0.75	6
1129	12.0	<0.01	<0.01	0.25	3.21	6
1130	13.8	<0.01	<0.01	0.42	1.63	6
1131	11.3	<0.01	<0.01	0.21	3.30	4
1132	0.1	<0.01	<0.01	0.02	<0.01	<2
1133	4.1	<0.01	0.27	1.06	2.56	22
1134	12.0	<0.01	<0.01	0.05	0.53	<2
1135	16.0	<0.01	<0.01	0.70	1.59	7
1136	0.2	<0.01	0.01	>5.00	0.64	>200
1137	0.3	<0.01	0.01	>5.00	0.22	>200
1138	0.3	<0.01	<0.01	0.06	0.03	<2
1139	0.5	<0.01	<0.01	4.18	0.65	9
1140	3.9	<0.01	0.26	1.55	2.50	24
1141	<0.1	<0.01	<0.01	4.34	0.74	43
1142	<0.1	<0.01	<0.01	4.73	0.32	42
1143	<0.1	0.01	<0.01	1.33	0.32	6
1144	<0.1	<0.01	<0.01	3.01	0.65	28

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## ANALYTICAL REPORT

	XRF75E % 0.1 50 Ca	XRF75E % 0.01 5 WO3	XRF75E % 0.01 50 Cu	XRF75E % 0.01 5 Pb	XRF75E % 0.01 5 Zn	AAS40Q PPM 2 200 Ag
1145	<0.1	<0.01	<0.01	3.41	0.19	19
1146	<0.1	<0.01	<0.01	2.91	0.13	35
1147	<0.1	<0.01	<0.01	0.79	0.02	14
1148	<0.1	<0.01	<0.01	0.65	0.97	4
1149	<0.1	<0.01	<0.01	0.70	1.03	8
1150	<0.1	<0.01	<0.01	3.97	1.54	34
1151	<0.1	<0.01	<0.01	0.76	1.26	10
1152	<0.1	<0.01	<0.01	1.09	0.53	6
1153	<0.1	<0.01	<0.01	0.26	0.51	3
1154	<0.1	<0.01	<0.01	0.20	0.15	5
1155	0.3	<0.01	<0.01	0.59	2.19	4
1156	0.5	<0.01	<0.01	0.76	2.34	2
1157	0.5	<0.01	0.04	>5.00	2.21	102
1158	0.4	<0.01	<0.01	1.21	1.22	7
1159	0.3	<0.01	<0.01	2.02	1.51	9
1160	0.5	<0.01	<0.01	0.48	1.70	2
1161	<0.1	<0.01	<0.01	0.03	0.02	<2
1162	0.5	0.01	<0.01	0.66	1.21	<2
1163	0.3	<0.01	<0.01	0.14	0.65	<2
1164	4.0	<0.01	0.27	1.07	2.56	22
1165	0.2	<0.01	<0.01	0.35	1.19	3
1166	0.2	<0.01	<0.01	0.24	1.54	2
1167	0.4	<0.01	<0.01	0.31	0.92	<2
1168	0.4	<0.01	<0.01	1.84	0.49	9
1169	0.2	<0.01	<0.01	3.53	0.79	24

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## ANALYTICAL REPORT

Scheme	AAS40Q	AAS43B	AAS43B	AAS43B
Units	PPM	%	%	PPM
Detection Limit	2	0.01	0.01	50
Upper Limit	200	40	100	40000
	Ag(R)	Pb	Zn	Ag
1107				
1108	25			
1109				
1110				
1111				
1112		15.7		
1113		6.40		
1114				
1115				
1116				
1117				
1118				
1119		7.62		
1120		12.5		
1121		15.9		
1122				
1123				
1124				
1125				
1126				
1127				
1128				
1129				
1130				
1131				
1132				
1133				
1134				
1135				
1136		18.1		380
1137		32.6		400
1138				
1139				
1140				
1141				
1142				
1143				
1144				

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### ANALYTICAL REPORT

	AAS40Q PPM 2 200 Ag(R)	AAS43B % 0.01 40 Pb	AAS43B % 0.01 100 Zn	AAS43B PPM 50 40000 Ag
1145				
1146				
1147				
1148				
1149				
1150				
1151	10			
1152				
1153				
1154				
1155				
1156				
1157	104	11.3		
1158				
1159				
1160				
1161				
1162				
1163				
1164				
1165				
1166				
1167				
1168				
1169	20			

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#### **DESCRIPTION**

AAS40Q : AAS after DIG40Q  
AAS43B : AAS after DIG43B  
CRU20 : Coarse Crushing, 6mm  
CRU22 : Crush >3.5kg, 10 Mesh (2mm), Per kg  
DIG40Q : 4 Acid Digest 0.2g-20ml  
DIG43B : 4 Acid Digest 0.25g-500ml  
DRY10 : Sample Drying, 105°C, <3.5kg  
PUL45 : Pulv, Cr Steel, 75µm, 250g  
SPL26 : Riffle Splitting, Per kg  
XRF75E : Pressed Powder XRF (2g+12g diluent)