

APPENDIX A:

Bulk chemical analyses

Table A1: Major element analyses of samples by XRF, expressed in oxide wt%. LOI = loss on ignition. Iron expressed alternatively as Fe_2O_3 or FeO

	SiO_2	Al_2O_3	Fe_2O_3	FeO	Mn_3O_4	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	SO_3	LOI	Total
clinker														
YSF1	56.02	23.59	10.63	9.57	0.19	1.83	0.25	0.33	5.25	1.03	0.150	0.088	-0.82	99.68
refinery slags														
YSF2	15.87	4.01	69.35	62.42	2.63	0.28	0.60	0.08	0.25	0.51	5.563	0.272	-4.46	101.13
YSF3	16.13	3.66	69.31	62.38	2.76	0.27	0.55	0.10	0.27	0.47	5.544	0.333	-6.52	100.74
YSF4	15.84	3.72	68.64	61.78	2.71	0.29	0.60	0.10	0.29	0.47	5.722	0.314	-6.66	99.93
YSF5	11.72	2.55	78.73	70.86	1.17	0.15	0.16	0.01	0.02	0.28	3.480	0.523	-4.85	99.70
YSF8	12.91	2.68	71.02	63.92	4.63	0.38	0.49	0.05	0.07	0.38	6.458	0.803	-2.71	101.46
YSF9	12.33	2.09	74.20	66.78	2.45	0.20	1.01	0.05	0.09	0.37	6.872	0.432	-5.06	101.15
YSF10	16.78	4.14	67.41	60.67	2.77	0.33	0.59	0.09	0.31	0.51	4.848	0.143	-5.99	99.36
YSF25	16.01	3.83	68.93	62.03	2.72	0.27	0.60	0.13	0.31	0.54	5.133	0.225	-6.60	100.31
YSF26	16.01	3.93	70.33	63.30	2.73	0.28	0.56	0.09	0.30	0.55	5.050	0.190	-6.61	101.67
YSF27	16.63	4.05	67.95	61.16	2.78	0.33	0.58	0.10	0.30	0.53	5.030	0.142	-6.69	99.84
YSF28	16.76	4.45	66.47	59.82	2.56	0.66	2.00	0.11	0.36	0.54	4.710	0.253	-6.19	100.58
YSF29	12.87	3.00	76.32	68.68	1.81	0.24	0.47	0.04	0.16	0.41	5.178	0.586	-3.90	102.52
YSF32	15.78	3.96	70.61	63.55	2.72	0.28	0.54	0.09	0.27	0.51	5.540	0.325	-6.43	102.31
puddling slags														
YSF30	16.47	1.11	72.97	65.67	2.45	0.09	0.17	0.03	0.07	0.42	4.118	0.851	-6.10	100.30
YSF31	16.83	0.82	73.88	66.49	2.45	0.02	0.18	0.02	0.08	0.42	4.116	0.868	-6.45	101.20
refinery spheroids														
YSF11	11.93	2.58	79.38	71.44	1.24	0.24	0.52	0.04	0.20	0.31	2.702	0.077	1.28	101.19
YSF12	15.27	2.95	72.09	64.88	1.09	0.29	0.86	0.07	0.28	0.35	2.767	0.284	3.42	100.56
Acid Bessemer slags														
YSF6	54.14	2.07	22.59	20.33	18.76	0.05	<0.004	0.01	0.29	0.99	0.067	0.140	-2.85	100.75
YSF7	57.84	1.62	26.16	23.55	12.28	0.05	<0.004	0.00	0.22	0.97	0.018	0.205	-2.28	100.48
blast furnace slags														
YSF17	37.04	11.01	12.84	11.55	1.81	2.12	31.84	0.37	1.60	0.61	0.425	0.500	-3.02	101.07
YSF19	35.40	14.32	0.33	0.30	1.20	9.58	34.17	0.48	1.92	0.72	0.008	0.216	-0.61	98.87
YSF20	35.31	14.23	0.80	0.72	1.20	9.47	34.37	0.52	1.73	0.69	0.025	0.637	-1.31	99.92
YSF21	37.23	15.48	2.78	2.50	1.37	9.96	28.28	0.45	2.28	0.70	0.067	0.284	-0.62	99.53
YSF22	35.78	14.99	0.66	0.59	0.88	9.37	32.10	0.42	1.79	0.60	0.004	0.195	2.23	99.53
YSF23	37.00	15.56	1.09	0.98	1.34	10.24	29.62	0.46	2.30	0.71	0.031	0.199	-0.34	99.11
YSF24	33.11	15.05	2.29	2.06	1.12	8.28	35.69	0.37	1.47	0.54	0.120	0.116	-0.39	98.60

Table A2. Trace element analyses of samples by XRF, expressed in oxide wt%.

	V ₂ O ₅	Cr ₂ O ₃	SrO	ZrO ₂	BaO	NiO	CuO	ZnO	PbO	HfO ₂
YSF1	0.037	0.019	0.039	0.043	0.068	0.005	0.003	0.010	<0.002	<0.004
YSF2	0.859	0.307	0.035	0.027	0.008	<0.003	<0.003	0.007	0.007	<0.005
YSF3	0.564	0.149	0.029	0.031	0.007	<0.003	0.011	0.011	0.003	<0.005
YSF4	0.503	0.121	0.035	0.029	0.015	<0.003	<0.003	0.009	0.004	0.008
YSF5	0.132	0.074	0.015	0.027	0.013	<0.004	<0.003	0.011	0.006	0.011
YSF8	0.230	0.094	0.046	0.025	0.036	<0.003	<0.003	0.009	0.006	<0.005
YSF9	0.214	0.135	0.030	0.027	0.023	<0.004	<0.003	0.007	0.004	0.006
YSF10	0.727	0.264	0.035	0.031	0.015	<0.003	<0.003	0.011	0.007	0.007
YSF25	0.784	0.317	0.040	0.031	0.013	<0.003	<0.003	0.010	0.006	<0.005
YSF26	0.837	0.341	0.034	0.028	<0.006	<0.003	<0.003	0.009	0.004	0.006
YSF27	0.704	0.251	0.038	0.027	0.012	<0.003	<0.003	0.009	0.007	0.009
YSF28	0.830	0.348	0.035	0.027	0.012	<0.003	<0.003	0.009	0.005	0.009
YSF29	0.445	0.173	0.025	0.024	<0.006	<0.004	<0.003	0.010	0.010	0.007
YSF32	0.807	0.292	0.026	0.027	0.012	<0.003	0.003	0.007	<0.003	<0.005
YSF30	0.317	0.122	0.013	0.023	<0.006	<0.003	0.005	0.015	0.031	0.009
YSF31	0.297	0.091	0.006	0.024	<0.006	<0.003	0.008	0.016	0.028	0.010
YSF6	0.091	0.028	<0.002	0.031	<0.006	<0.003	<0.002	0.007	0.004	0.006
YSF7	0.063	0.019	<0.002	0.032	<0.006	<0.003	<0.002	0.009	0.004	<0.004
YSF11	0.271	0.122	0.037	0.025	0.015	<0.004	0.006	0.012	0.043	0.006
YSF12	0.232	0.116	0.035	0.027	0.031	<0.004	0.007	0.016	0.007	<0.005
YSF17	0.062	0.017	0.078	0.045	0.065	<0.002	<0.002	0.009	0.003	0.004
YSF19	0.003	<0.004	0.083	0.042	0.110	<0.002	<0.002	0.007	<0.002	<0.004
YSF20	<0.003	<0.004	0.086	0.042	0.113	<0.002	<0.002	0.006	<0.002	<0.004
YSF21	0.008	<0.004	0.082	0.042	0.133	<0.002	<0.002	0.009	0.003	<0.004
YSF22	<0.003	<0.004	0.089	0.042	0.125	<0.002	<0.002	0.008	<0.002	<0.004
YSF23	0.007	<0.004	0.081	0.039	0.123	<0.002	<0.002	0.009	<0.002	<0.004
YSF24	0.009	<0.004	0.067	0.038	0.111	<0.002	<0.002	0.006	<0.002	<0.004

Table A3a: Trace elements analysed by ICP-MS, expressed in ppm.

	Sc	V	Cr	Co	Ni	Cu	Zn	Ga	Rb	Sr	Y	Zr	Nb	Mo	Sn	Cs	Ba
clinker																	
YSF1	23.9	226.4	173.5	56.2	55.4	227.3	124.9	12.6	211.5	259.9	42.8	213.3	21.52	3.96	3.18	13.19	735.7
refinery slag																	
YSF2	6.2	4639.7	1934.8	376.4	8.6	389.8	88.2	43.2	9.2	250.2	11.4	94.8	116.54	0.77	1.50	0.51	289.1
YSF3	6.1	3193.1	956.5	395.9	12.5	484.2	111.9	41.0	10.2	236.7	11.4	95.9	124.72	0.81	0.67	0.53	287.3
YSF4	6.1	2908.5	784.3	394.9	108.6	410.5	81.8	40.9	11.0	254.4	12.3	102.9	138.01	0.83	1.34	0.54	312.3
YSF5	5.0	803.6	535.0	456.0	14.4	350.8	79.2	50.7	2.0	104.0	8.2	93.7	58.80	1.11	2.50	0.23	296.8
YSF8	3.2	670.7	291.7	208.8	7.4	298.7	78.5	30.6	1.7	158.0	5.6	49.6	36.99	1.00	1.54	0.30	275.2
YSF9	4.3	1186.7	767.6	422.7	202.5	403.3	84.0	57.6	3.5	258.0	8.9	78.6	66.76	1.09	3.23	0.27	383.6
YSF10	6.6	4650.2	1880.9	289.3	107.0	17.8	3.7	37.9	13.3	245.5	12.3	96.6	111.31	1.30	2.69	0.79	326.9
YSF25	6.6	4985.6	2212.2	195.5	69.3	50.1	7.5	40.2	13.0	244.1	12.1	80.2	93.76	1.04	2.45	0.75	322.3
YSF26	5.0	4864.7	2028.1	330.9	16.1	213.1	52.6	40.7	12.9	224.1	11.1	88.6	103.80	1.52	3.31	0.67	299.70
YSF27	5.5	3589.2	1374.0	346.4	9.2	328.1	59.8	40.5	11.4	323.4	10.8	104.3	115.74	1.23	3.93	0.55	290.8
YSF28	6.3	5092.3	2247.2	404.8	5.6	411.1	79.3	37.7	11.5	340.5	11.5	93.3	114.60	1.61	2.44	0.54	309.5
YSF29	5.6	3019.5	1262.1	505.2	89.6	534.2	115.2	42.1	11.4	219.6	10.9	101.4	101.98	1.32	2.12	0.58	279.8
YSF32	6.7	5096.0	2157.0	178.5	12.6	24.7	24.3	40.3	10.7	231.5	12.5	125.5	119.30	1.57	0.50	0.35	295.5
refinery/puddling slag																	
YSF30	1.4	1969.0	798.3	447.6	6.3	486.7	162.4	41.8	5.6	91.4	2.4	71.5	91.07	1.28	9.44	0.31	206.5
YSF31	2.1	1805.2	588.3	449.8	3.4	623.4	196.7	29.8	3.3	90.5	2.1	79.0	43.08	1.46	6.21	0.22	172.3
refinery spheroids																	
YSF11	4.1	1354.5	665.0	433.1	37.4	468.8	108.2	33.2	7.4	202.1	8.0	77.8	61.99	5.81	3.72	0.50	270.7
YSF12	6.7	1294.6	789.2	403.5	39.3	1327.6	480.5	33.3	13.0	247.3	10.6	100.9	64.34	6.54	3.46	0.94	423.2
acid Bessemer slags																	
YSF6	2.7	538.6	233.1	93.3	662.5	31.6	6.3	16.4	13.8	29.7	3.9	105.4	37.02	0.77	2.51	1.28	125.2
YSF7	1.0	225.6	65.1	96.2	6.4	212.0	41.1	13.3	6.5	13.0	2.1	65.5	19.31	2.04	1.48	0.53	44.9
blast furnace slags																	
YSF17	16.8	335.0	162.6	68.8	31.4	24.4	30.3	6.5	68.7	653.9	75.3	276.6	14.15	1.85	0.33	4.74	636.1
YSF19	35.0	43.9	15.1	5.5	35.7	237.8	70.7	4.1	57.5	790.5	76.8	246.0	6.54	0.68	0.80	2.12	1122.8
YSF20	33.9	32.0	31.4	45.3	36.1	1.8	7.5	2.2	65.2	692.8	70.2	208.5	5.64	0.24	2.22	3.08	1217.6
YSF21	41.7	29.7	10.0	3.3	2.6	179.2	46.8	3.2	57.3	734.4	81.5	214.4	2.03	-0.04	0.55	1.85	1216.1
YSF22	38.1	97.7	8.4	15.0	2.5	345.2	98.6	8.0	41.7	1391.6	90.5	182.1	6.49	3.43	1.66	1.48	255.8
YSF23	46.5	84.4	1193.5	9.5	887.9	180.5	78.0	5.1	82.6	953.0	94.1	199.0	6.53	1.09	3.74	3.30	1413.0
YSF24	23.9	44.6	5.6	8.2	4.6	88.1	23.7	2.5	27.1	503.5	52.5	102.7	5.44	0.28	0.82	1.12	758.3

Table A3b: Trace elements analysed by ICP-MS, expressed in ppm. (contd.)

	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	Re	Pb	Th	U
clinker																				
YSF1	57.78	110.79	14.09	50.70	9.84	2.30	8.52	1.17	7.06	1.23	3.72	0.60	3.67	0.59	5.22	1.75	9.22		16.90	4.63
refinery slag																				
YSF2	13.15	23.63	3.02	11.46	2.35	0.65	2.02	0.36	2.03	0.33	0.94	0.15	0.91	0.15	2.26	3.42	4.25		3.46	0.88
YSF3	13.17	23.92	3.08	11.54	2.26	0.67	2.03	0.37	2.05	0.34	0.96	0.16	0.94	0.14	2.21	4.06	3.50		3.46	0.95
YSF4	14.31	26.02	3.34	12.69	2.35	0.70	2.15	0.39	2.16	0.37	1.04	0.16	1.01	0.15	2.43	3.66	3.72		3.63	1.00
YSF5	8.28	15.37	2.01	7.36	1.55	0.49	1.15	0.24	1.39	0.25	0.71	0.12	0.67	0.10	2.11	2.52	4.22		2.22	0.76
YSF8	4.79	8.83	1.18	4.80	1.22	0.40	0.88	0.18	1.09	0.19	0.47	0.08	0.45	0.06	1.10	1.66	2.30		1.14	0.34
YSF9	7.93	14.62	1.94	7.33	1.60	0.54	1.45	0.27	1.53	0.27	0.68	0.13	0.62	0.08	1.79	2.79	2.92		1.81	0.59
YSF10	14.26	26.89	3.23	11.52	2.42	0.63	2.55	0.34	1.92	0.34	0.99	0.15	0.91	0.13	2.40	3.27	5.44		2.99	0.89
YSF25	13.61	26.19	3.13	11.56	2.48	0.64	2.37	0.30	1.92	0.34	1.03	0.14	0.85	0.13	2.15	5.14		9.84	3.21	0.87
YSF26	13.56	25.66	3.10	11.07	2.32	0.65	2.50	0.35	2.11	0.36	1.02	0.16	0.95	0.13	2.39	3.47		3.72	2.97	0.79
YSF27	13.27	24.45	3.17	11.47	2.46	0.63	2.04	0.36	2.13	0.35	0.94	0.15	0.93	0.13	2.27	3.53	3.04		2.62	1.00
YSF28	13.85	25.22	3.26	11.41	2.47	0.66	2.08	0.35	2.23	0.37	0.97	0.16	0.88	0.13	2.76	3.77	4.24		2.10	0.91
YSF29	12.89	23.74	3.04	10.92	2.44	0.62	1.89	0.36	2.00	0.34	0.91	0.15	0.93	0.12	2.11	3.36	4.16		1.83	0.87
YSF32	14.21	26.29	3.16	12.11	2.46	0.61	2.29	0.37	1.93	0.38	1.06	0.16	1.01	0.14	2.41	4.74		3.27	3.35	0.95
refinery/puddling slag																				
YSF30	9.81	18.29	2.37	8.66	1.85	0.51	1.49	0.27	1.61	0.28	0.79	0.13	0.71	0.11	1.84	3.32	19.91		2.58	0.83
YSF31	3.53	6.00	0.71	2.54	0.52	0.20	0.51	0.08	0.39	0.07	0.24	0.04	0.26	0.03	1.57	2.61	209.90		0.81	0.62
refinery spheroids																				
YSF11	7.81	14.21	1.87	7.13	1.61	0.48	1.24	0.25	1.33	0.26	0.61	0.10	0.58	0.07	2.01	2.19		284.59	1.93	0.82
YSF12	10.09	18.90	2.45	9.13	2.11	0.68	1.69	0.34	1.81	0.32	0.89	0.14	0.84	0.12	2.15	2.41	19.12		3.26	0.99
acid Bessemer slags																				
YSF6	6.24	11.92	1.38	4.37	0.88	0.23	0.79	0.10	0.68	0.13	0.42	0.06	0.42	0.06	2.35	3.69		7.94	1.57	0.56
YSF7	3.13	5.83	0.70	2.39	0.51	0.12	0.34	0.08	0.39	0.07	0.23	0.03	0.21	0.03	1.55	2.20	4.60		0.86	0.40
blast furnace slags																				
YSF17	47.51	103.70	13.10	52.36	11.74	2.87	12.23	1.90	11.10	2.21	6.45	1.02	6.29	0.90	5.19	1.35		1.81	13.51	5.03
YSF19	45.32	88.42	11.59	44.00	9.80	3.19	11.85	1.76	10.94	1.96	5.19	0.83	4.88	0.67	5.32	1.91	4.84		10.11	4.40
YSF20	47.47	96.30	11.76	45.76	10.48	2.96	12.07	1.86	10.62	1.76	5.29	0.69	4.55	0.62	5.41	1.59		3.73	9.09	3.69
YSF21	44.98	89.73	12.02	44.93	10.93	3.45	12.78	1.99	13.05	2.15	5.68	0.87	5.04	0.78	4.85	0.88	2.00		6.14	5.03
YSF22	16.50	33.07	4.06	14.26	2.81	0.61	2.10	0.42	2.75	0.47	1.41	0.25	1.59	0.25	5.70	1.75	16.82		3.65	1.61
YSF23	50.72	101.25	13.79	52.31	13.07	4.16	16.17	2.48	15.53	2.59	6.79	1.01	5.94	0.89	4.68	1.05	4.05		6.78	5.71
YSF24	28.72	54.33	7.65	29.21	7.32	2.47	8.57	1.36	8.25	1.34	3.51	0.53	2.90	0.47	2.46	3.02	1.91		3.19	4.49

Table A4: Major element analyses of samples by ICP-MS, expressed in oxide wt%.

	SiO ₂	MnO	Fe ₂ O ₃	TiO ₂	P ₂ O ₅
YSF1	51.58	0.16	11.68	1.04	0.18
YSF2	10.51	3.24	75.60	0.51	6.57
YSF3	10.21	3.60	78.44	0.49	6.48
YSF4	10.98	3.61	78.37	0.49	6.75
YSF5	7.79	1.37	91.11	0.28	4.26
YSF8	50.71	3.11	41.77	0.21	4.09
YSF9	4.42	3.01	80.42	0.38	8.25
YSF10	7.23	3.06	75.85	0.57	6.96
YSF25	6.52	2.91	76.20	0.56	7.57
YSF26	9.21	3.10	72.22	0.50	5.69
YSF27	23.66	3.14	63.40	0.49	5.20
YSF28	7.59	3.37	77.46	0.55	6.21
YSF29	14.71	2.48	77.94	0.49	6.50
YSF32	16.05	2.83	72.20	0.52	5.40
YSF30	10.61	3.19	83.53	0.45	5.45
YSF31	8.56	3.28	82.60	0.47	5.47
YSF6	49.73	20.52	24.42	0.96	0.07
YSF7	70.27	4.48	19.43	0.61	0.02
YSF11	7.14	1.30	83.60	0.30	2.98
YSF12	10.82	1.18	76.07	0.36	3.39
YSF17	36.80	1.81	13.43	0.61	0.48
YSF19	40.19	1.49	1.08	0.80	0.05
YSF20	33.44	1.23	0.68	0.80	0.00
YSF21	33.47	0.98	0.58	0.65	0.02
YSF22	41.70	1.39	2.99	0.63	0.20
YSF23	32.48	1.44	2.09	0.75	0.05
YSF24	70.24	0.86	1.62	0.39	0.05

APPENDIX B:

EDS Microanalyses

Table B1: EDS microanalyses expressed in elemental wt%. b.d. = element sought, but below detection limit

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF1	SOI1	#1	area	47.75	0.36	1.05	14.53	24.85	b.d.	b.d.		3.94	0.42	0.64				7.06										100.62
YSF1	SOI1	#2	area	52.46	0.41	1.08	16.47	27.96	b.d.	b.d.		4.23	0.43	0.59	b.d.		0.15	7.88										111.66
YSF1	SOI1	#3	area	48.99	0.46	1.30	13.57	27.15		0.09		4.14	0.55	0.72	b.d.		0.16	9.00										106.12
YSF1	SOI1	#4	area	46.17	0.33	1.15	11.86	25.63		b.d.		4.21	0.46	0.70				7.73										98.25
YSF1	SOI1	#5	area	42.57	0.22	1.02	13.53	22.69				3.50	0.38	0.64			b.d.	6.46										91.00
YSF1	SOI1	#6	area	46.07	0.36	1.39	12.01	25.72				4.13	0.59	0.61			b.d.	7.51										98.38
YSF1	SOI1	#7	area	43.91	0.26	1.06	14.88	23.11				3.51	0.44	0.55	b.d.		b.d.	6.29										94.01
YSF1	SOI1	#8	area	49.22	0.34	1.21	14.90	26.65	b.d.	b.d.		4.09	0.47	0.80	b.d.		b.d.	9.33										107.02
YSF1	SOI2	#1	point				b.d.		0.43									88.66		3.53								92.61
YSF1	SOI2	#2	area	47.74	0.40	0.88	12.40	27.31		0.08		4.68	0.45	0.53				6.09										100.56
YSF1	SOI2	#3	area	23.10	0.19	b.d.	1.01	3.88	0.10	0.32		0.63	0.14	b.d.				30.54		0.44								60.34
YSF1	SOI3	#1	area	47.57	0.36	0.74	13.85	27.26	b.d.	0.08	b.d.	4.61	0.36	0.63			b.d.	5.01										100.47
YSF1	SOI3	#2	area	44.20	0.37	0.68	9.64	27.45		b.d.		5.18	0.30	0.44				3.91										92.15
YSF1	SOI3	#3	area	46.69	0.29	1.12	13.60	25.64	b.d.	b.d.		4.02	0.47	0.68			0.14	7.72										100.37
YSF1	SOI3	#4	area	49.52	0.39	0.93	12.15	28.83		0.08		5.10	0.43	0.67				5.61										103.70
YSF1	SOI3	#5	area	48.97	0.26	0.76	17.90	25.38	b.d.	0.08		3.97	0.39	0.63	b.d.		b.d.	5.02										103.36
YSF1	SOI4	#1	point	3.17		b.d.	1.21	2.58	0.28	11.58		0.53						62.39	4.74	11.49	0.69							98.65
YSF1	SOI4	#2	point	12.14	0.16	0.30	4.40	10.68		18.05		2.28	0.15	0.16				38.46										86.76
YSF1	SOI4	#3	point	4.59			1.91	3.70	0.12	24.33		0.72		b.d.				54.61		1.59	b.d.							91.58
YSF1	SOI4	#4	point	9.34		0.23	2.23	5.78		29.93		1.09		b.d.				52.11		0.42	b.d.							101.13
YSF1	SOI4	#5	point	15.42	b.d.	0.34	3.62	9.48	b.d.	29.34		1.49		0.18		b.d.		50.86		0.95	b.d.							111.67
YSF1	SOI4	#6	point	14.16	b.d.	0.25	3.14	8.15	0.11	27.21		1.47		0.15				50.79		1.42	b.d.							106.87
YSF1	SOI4	#7	point	28.39	b.d.	0.49	8.33	17.37		17.89		2.90	0.20	0.32				32.50		b.d.	b.d.							108.38
YSF1	SOI4	#8	point	17.35		0.41	5.34	14.19	0.09	12.55		3.26	0.28	0.39				24.81		0.40	0.73							79.79
YSF1	SOI4	#9	point	22.07	b.d.	0.51	5.44	13.73		20.94	b.d.	2.34	0.19	0.26				41.55		1.41	0.23							108.68
YSF1	SOI5	#1	point			b.d.	b.d.	b.d.	0.12			0.12						92.99		2.50								95.73
YSF1	SOI5	#2	point			b.d.	b.d.	0.66	b.d.	0.16		0.15		b.d.				94.08		2.15								97.21
YSF1	SOI5	#3	point		b.d.	b.d.	b.d.	0.21	0.18			0.12		b.d.				94.37		2.29								97.17
YSF1	SOI5	#4	point			b.d.		1.22	0.18	b.d.		0.09						92.77		2.14								96.40
YSF1	SOI5	#5	point				0.33	1.17	0.14	b.d.		0.24						95.18		1.92								98.98
YSF1	SOI5	#6	point	18.79	0.21	0.22	3.02	20.04	b.d.	0.52		2.28		0.12				51.69		1.35								98.25

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF1	SOI5	#7	point			b.d.	b.d.	0.53				0.12						96.35		1.44								98.45
YSF1	SOI5	#8	point	24.22		0.13	3.03	22.16		6.75		2.39		b.d.				44.02		0.71								103.42
YSF1	SOI5	#9	point	51.26	0.16	0.41	23.77	24.80				2.95		0.46	0.18			1.94										105.94
YSF1	SOI5	#10	point	52.51	0.17	0.42	22.38	26.59		b.d.		3.53		0.49	0.18			1.81										108.09
YSF1	SOI5	#11	point	51.93	0.22	0.55	16.98	28.97		b.d.		4.87	0.23	0.51	b.d.			2.80										107.05
YSF1	SOI5	#12	point	49.37	0.14	0.40	25.68	24.11				2.50		0.47	0.17			1.73										104.58
YSF1	SOI5	#13	point	51.39	b.d.	0.35	32.69	18.31	0.16			1.28	0.14	0.44	0.23			1.09										106.08
YSF1	SOI5	#14	point	30.43	0.14	0.21	6.36	25.54		b.d.		5.43	0.13	0.37				2.10										70.72
YSF1	SOI5	#15	point	48.82	0.35	0.53	9.33	32.30		b.d.	b.d.	6.18		0.35				3.09										100.95
YSF1	SOI5	#16	point	48.04	0.32	0.97	10.89	29.53		b.d.		5.53	0.39	0.55			b.d.	5.26										101.48
YSF1	SOI6	#1	area	22.21	0.12	0.42	10.18	12.39	0.09	0.21	0.19	1.22	0.27	0.57				1.77										49.63
YSF1	SOI7	#1	area	3.99		b.d.	0.96	0.99		0.53		0.23		0.13				0.21										7.03
YSF1	SOI7	#2	area	3.56		0.06	1.83	1.31		0.34	0.08	0.07	0.13	0.08				0.22										7.67
YSF1	SOI7	#3	area	14.56	b.d.		9.31	8.95	0.08	0.10	0.17	0.48	0.21	0.39	b.d.			0.96										35.20
YSF1	SOI7	#4	area	31.45	0.14	0.60	12.47	19.58	b.d.	0.17	0.10	3.17	0.28	0.61				1.35										69.91
YSF1	SOI7	#5	area	5.99	b.d.	b.d.	2.39	2.52	b.d.	0.48	b.d.	0.26	0.13	0.14	b.d.			0.45										12.37
YSF1	SOI8	#1	area	45.97	0.35	1.33	12.85	24.70	0.11	b.d.	b.d.	3.97	0.49	0.64			0.13	7.63										98.16
YSF1	SOI8	#2	area	36.70	0.23	0.60	12.83	20.25		b.d.		3.07	0.21	0.48				5.79										80.16
YSF1	SOI8	#3	area	53.13	0.63	1.16	12.12	28.12	0.18	b.d.		6.91	0.46	0.59				11.62										114.93
YSF1	SOI8	#4	area	52.17	0.49	0.84	13.69	28.59				5.04	0.35	0.68			b.d.	5.81										107.66
YSF1	SOI8	#5	area	52.75	0.38	1.64	14.69	28.04		0.09		4.05	0.51	0.68			0.14	10.15										113.12
YSF1	SOI8	#6	area	48.51	0.43	1.76	11.81	26.09		b.d.		3.85	0.57	0.61			0.26	11.70										105.57
YSF1	SOI9a	#1	point				0.21	22.81	0.26						b.d.			75.60		0.46	b.d.							99.34
YSF1	SOI9a	#2	point				0.19	0.11		b.d.								97.71		0.37	0.42							98.80
YSF1	SOI9a	#3	point									0.11						97.69			0.26							98.06
YSF1	SOI9a	#4	point															98.63			0.38							99.01
YSF1	SOI9a	#5	point				1.60	1.77				0.38		b.d.				90.89		0.33	0.39							95.35
YSF1	SOI9a	#6	point				0.24	0.34				0.12		b.d.				96.32		0.34	0.27							97.63
YSF1	SOI9a	#7	point				0.18	0.20	0.15			0.14						95.64		0.44	0.30							97.04
YSF1	SOI9a	#8	point	5.23		0.51	2.18	1.87	0.12	b.d.	b.d.	0.24	0.14	b.d.				93.30			0.32							103.91
YSF1	SOI9a	#9	point	3.82		b.d.	1.48	1.55				0.28						94.41		0.23	0.47							102.24

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF1	SOI9a	#10	point				0.18	17.67										81.55		0.59								100.00
YSF1	SOI10	#1	area			b.d.	0.53	0.59	1.84	0.10		0.11						88.64		0.40								92.20
YSF1	SOI10	#2	point	15.36		0.52	5.88	9.88	7.65	1.55		1.26		0.22				61.45		2.21								105.97
YSF1	SOI10	#3	point	45.63	0.23	3.99	8.71	5.03		0.10		0.47	0.25	0.32			0.21	50.54										115.48
YSF1	SOI10	#4	point	44.59	0.25	4.55	22.81	11.45				1.84		0.41	b.d.	0.15	0.23	23.13										109.40
YSF1	SOI10	#5	point	46.56	0.39	3.46	16.99	15.99	0.15	b.d.	b.d.	2.84		0.37	b.d.	b.d.	b.d.	29.06		b.d.								115.80
YSF1	SOI10	#6	point	50.03	0.34	1.34	7.61	18.99	0.10	0.11		3.59	0.31	0.55			0.17	24.78										107.93
YSF1	SOI10	#7	point	22.49	0.21	0.42	4.66	15.52			b.d.	3.85	0.20	0.52			b.d.	4.85										52.72
YSF1	SOI10	#8	point	51.93	b.d.	0.29	31.75	16.54	0.12	b.d.	b.d.	1.62	0.12	0.60				1.28										104.24
YSF1	SOI10	#9	point	48.34	0.41	0.84	9.19	29.22		b.d.		5.52	0.32	0.56				5.47										99.87
YSF1	SOI10	#10	point	47.11	0.35	0.95	9.26	29.19	b.d.	b.d.		5.39	0.26	0.65			0.12	6.17										99.43
YSF1	SOI10	#11	point	5.23	0.25	0.07	0.44	0.36	b.d.	b.d.	0.78	0.28	0.12					0.22										7.74
YSF1	SOI10	#12	point	2.80	b.d.	0.04	0.17	0.41		0.05	0.17	0.15	0.07					0.34										4.20
YSF1	SOI10	#13	point	30.33	0.23	0.42	6.41	18.95				3.91	0.14	0.68				4.37										65.43
YSF1	SOI10	#14	point	26.92	0.23	0.43	6.01	15.40				3.79	0.25	0.51				4.78										58.32
YSF1	SOI10	#15	point	52.64	0.14	0.26	30.14	18.95	0.11			1.85		0.54				1.89										106.53
YSF1	SOI11	#1	area	47.17	0.27	1.21	12.91	28.13	0.10	b.d.		4.32	0.22	0.61	b.d.	b.d.	0.16	4.64										99.74
YSF1	SOI12	#1	area					0.36	1.10			0.16						93.98										95.60
YSF1	SOI12	#2	area			b.d.	0.81	1.26	2.03			0.26						91.50										95.86
YSF1	SOI12	#3	point	52.69	0.13	0.26	33.95	17.85	0.12			1.07		0.43				0.69										107.21
YSF1	SOI12	#4	point	51.02	0.12	0.35	32.43	18.35	0.14	b.d.		1.04		0.45				0.76										104.68
YSF1	SOI12	#5	point	51.38	0.27	0.62	24.52	24.65	0.13	b.d.		2.45		0.51				1.69										106.21
YSF1	SOI12	#6	point	54.32	0.22	0.59	23.24	26.11				3.11		0.57				1.98										110.13
YSF1	SOI12	#7	point	52.08	0.16	0.62	25.38	20.51				2.61		0.60				2.04										104.01
YSF1	SOI12	#8	point	53.26	0.19	0.64	24.00	22.41				3.06	0.14	0.57				2.07										106.33
YSF1	SOI12	#9	point	49.86	0.35	1.11	11.53	30.09		b.d.	b.d.	4.67	0.21	0.64				3.90										102.36
YSF1	SOI12	#10	point	47.85	0.30	1.51	10.89	28.53		b.d.		4.47	0.37	0.60			0.17	5.54										100.22
YSF1	SOI12	#11	point	47.35	0.30	1.50	10.76	28.56	0.08	b.d.		4.53	0.34	0.71			0.16	4.93										99.21
YSF1	SOI12	#12	point	26.52	0.11	0.34	16.17	17.01			b.d.	1.84		0.52				1.35										63.86
YSF1	SOI12	#13	point	37.22	0.10	0.32	24.21	16.73				1.14		0.45				0.79										80.96
YSF1	SOI12	#14	point	48.52	0.29	1.34	10.37	29.24		b.d.	b.d.	4.67	0.35	0.59	b.d.		0.13	4.65										100.16
YSF1	SOI12	#15	point	22.48	0.33	0.68	4.50	8.86	2.37		0.53	0.96	0.12	0.12				79.23			b.d.							120.19

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF1	SOI12	#16	point	17.36	b.d.	0.94	6.28	13.64	1.94			1.78	0.15	0.18				61.85										104.11
YSF1	SOI12	#17	point	5.45	b.d.	0.30	1.29	2.54	1.19	0.10		0.37						90.95										102.18
YSF1	SOI12	#18	point	38.56	0.27	1.49	10.20	24.33	0.65	b.d.	b.d.	3.63	0.25	0.45			0.15	25.55										105.54
YSF1	SOI12	#19	point	40.84	0.38	1.51	10.26	24.63	0.46	0.09		3.25		0.48			0.13	34.76										116.79
YSF1	SOI12	#20	point	40.42	0.37	1.59	9.72	22.89	0.75	b.d.		3.04	0.22	0.40				42.37										121.77
YSF2	SOI1	#1	area	30.64	b.d.	0.16	2.44	7.72	2.80	0.17		0.27	0.55	0.25	0.58	0.30	2.06	49.30										97.23
YSF2	SOI2	#1	area	30.26	0.18	0.19	2.17	8.34	2.50	0.11		0.24	0.43	0.23	0.60	0.21	2.20	47.61										95.26
YSF2	SOI3	#1	area	28.83	0.18	0.20	2.16	7.58	2.87	0.10		0.24	0.52	0.20	0.50	0.26	2.11	45.40										91.15
YSF2	SOI4	#1	area	30.15	0.22	0.26	2.66	7.81	3.10	0.09		0.26	0.56	0.29	0.64	0.29	2.04	48.68										97.08
YSF2	SOI5	#1	area	29.58	0.18	0.23	2.32	8.03	3.09	0.14		0.29	0.58	0.30	0.48	0.20	2.24	46.87										94.55
YSF2	SOI7	#1	point	21.73	b.d.		0.46	0.25	0.13	b.d.				0.69	0.19		0.60	71.95										96.00
YSF2	SOI7	#2	point	21.52		0.15	7.29	1.53	0.48	0.11		0.08	0.14	0.82	6.72	9.06	1.16	38.83										87.89
YSF2	SOI7	#3	point	20.84		0.22	10.73	0.16						1.60	9.39	1.68	0.96	41.66										87.23
YSF2	SOI7	#4	point	31.60	b.d.	b.d.	19.62	0.32						2.53	0.80	b.d.	0.79	40.89										96.56
YSF2	SOI7	#5	point	29.78	b.d.	0.13	19.70	0.25						1.80	1.42	b.d.	0.81	40.26										94.15
YSF2	SOI7	#6	point	29.92			21.43	0.32						1.16	1.43	0.15	0.77	38.75										93.94
YSF2	SOI7	#7	point	31.56	0.18	b.d.	0.19	5.98	8.77				0.14				2.41	45.70										94.93
YSF2	SOI7	#8	point	30.49	b.d.	b.d.	0.29	9.67	3.87				b.d.				2.42	48.30										95.04
YSF2	SOI7	#9	point	30.21		0.20	0.31	11.33	2.00								2.36	49.76										96.17
YSF2	SOI7	#10	point	33.07		0.12	0.38	12.16	1.68				0.11				2.48	45.89										95.90
YSF2	SOI7	#11	point	29.63	b.d.	0.16	0.35	11.81	1.23								2.54	49.39										95.11
YSF2	SOI7	#12	point	29.63	b.d.	0.27	0.28	12.07	0.98								2.68	49.19										95.10
YSF2	SOI7	#13	point	29.51		0.39	0.31	11.95	0.94								2.73	49.28										95.11
YSF2	SOI7	#14	point	33.19	1.27	b.d.	0.11	0.91	15.25		b.d.	3.78	3.59	b.d.			2.93	32.64										93.66
YSF2	SOI7	#15	point	25.22			0.44	1.37	2.70					0.86			0.73	65.78										97.10
YSF2	SOI7	#16	point	12.53	0.56	b.d.	b.d.	1.10	7.38	3.75		2.11	2.87	b.d.			1.99	31.46										63.75
YSF2	SOI7	#17	point	28.38	0.82	b.d.	0.23	1.95	12.13	0.87	b.d.	2.19	3.02	b.d.			2.15	30.77										82.50
YSF2	SOI7	#18	point	33.96	1.04	b.d.	b.d.	0.84	16.18			4.56	3.82	b.d.			3.56	33.65										97.60
YSF2	SOI7	#19	point	32.68	1.22	b.d.	0.11	1.02	14.58			3.63	2.94	b.d.			2.98	33.61										92.77

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF2	SOI7	#20	point	33.88	0.26	b.d.	0.18	1.76	14.37			0.10	5.24	b.d.			2.61	35.44										93.86
YSF2	SOI7	#21	point	33.30	0.37	b.d.	0.15	2.40	12.82			0.32	3.30				2.54	39.01										94.21
YSF2	SOI7	#22	point	19.06	0.26	0.11	0.13	0.88	12.13	0.27		0.77	6.51	b.d.			2.58	27.35										70.05
YSF2	SOI7	#23	point	34.46	0.62	b.d.		0.54	15.64			2.31	6.49				3.12	30.41										93.60
YSF2	SOI7	#24	point	29.29	0.80	b.d.	0.32	1.27	9.50			1.92	1.65	0.54			1.84	47.99										95.13
YSF2	SOI7	#25	point	33.15	1.19	b.d.	b.d.	0.96	15.44			4.38	3.58	b.d.			3.36	32.33										94.39
YSF2	SOI7	#26	point	31.69	1.14	b.d.	b.d.	0.68	15.59			3.31	3.65	0.12			3.07	33.73										92.98
YSF2	SOI7	#27	point	33.05	0.63		b.d.	0.45	15.91			2.19	6.69	b.d.			3.17	31.44										93.53
YSF2	SOI7	#28	point	32.87	1.15	b.d.	b.d.	0.77	15.12			4.41	3.39	b.d.	0.16	0.19	3.31	32.04						0.56				93.97
YSF2	SOI7	#29	point	36.17	1.82		b.d.	0.98	14.89	0.78		2.40	4.37	0.14			2.49	32.24										96.28
YSF2	SOI7	#30	point	31.27	b.d.	b.d.	0.30	7.74	6.34		b.d.		0.15				2.41	47.72										95.93
YSF2	SOI7	#31	point	32.43	b.d.	b.d.	b.d.	4.32	11.37			0.36	0.48	b.d.			2.65	44.17										95.78
YSF2	SOI7	#32	point	30.85	b.d.	b.d.	0.16	5.68	8.93				0.13	b.d.			2.48	45.18										93.40
YSF2	SOI7	#33	point	3b.d.465	b.d.	b.d.	0.26	8.96	4.72				0.11				2.53	46.83										93.42
YSF2	SOI8	#1	point	35.80	0.51		0.14	2.62	13.86			1.39	1.29				2.64	42.71										100.95
YSF2	SOI8	#2	point	34.04	0.24	b.d.	0.22	2.83	13.63			b.d.	0.92				2.50	44.51										98.90
YSF2	SOI8	#3	point	39.52	0.32		0.23	6.24	8.82	4.47		0.17	0.29				1.68	45.70										107.46
YSF2	SOI8	#4	point	34.78	1.44	b.d.	0.15	0.97	16.12			3.97	3.76				3.20	34.11										98.50
YSF2	SOI8	#5	point	33.40	1.12	b.d.	b.d.	1.03	14.92			3.99	3.20				3.04	37.70										98.40
YSF2	SOI8	#6	point	34.64	1.09	0.12	b.d.	1.08	15.85			4.54	3.82				3.46	33.58										98.19
YSF2	SOI8	#7	point	34.33	1.04	b.d.	b.d.	0.99	15.60			4.49	3.82				3.46	33.68						0.43				97.84
YSF2	SOI8	#8	point	34.00	1.06	0.12	0.13	1.03	15.51			4.31	3.51				3.31	34.82										97.79
YSF2	SOI8	#9	point	36.45	0.19		0.13	0.54	16.45				8.75				2.98	32.47										97.97
YSF2	SOI8	#10	point	33.46	0.27		0.15	0.80	15.93				7.95				3.07	33.75										95.39
YSF2	SOI8	#11	point	37.06			0.13	0.73	16.73	1.17		0.15	8.87				3.10	33.10										101.03
YSF2	SOI8	#12	point	38.18	b.d.	b.d.	b.d.	0.76	15.84	1.61			10.68				2.65	29.92										99.65
YSF2	SOI8	#13	point	13.36	0.76		0.14	1.57	9.70	3.64		1.87	3.32	0.17			2.21	31.78										68.52
YSF2	SOI8	#14	point	11.58	0.55		0.14	2.10	4.43	11.54		1.63	1.67				1.09	29.27			0.33							64.32
YSF2	SOI8	#15	point	34.76			0.14	1.09	15.89	0.15		0.14	6.22				2.88	34.96										96.23
YSF2	SOI8	#16	point	34.19	1.18	0.12	b.d.	0.91	15.55		b.d.	4.47	3.73				3.42	33.31										96.90
YSF2	SOI8	#17	point	35.50			b.d.	0.67	16.62	0.21		0.15	7.80				2.92	34.18										98.04
YSF2	SOI8	#18	point	34.22	1.70	b.d.	b.d.	1.27	15.35			3.68	3.32				2.72	33.17						1.33				96.77
YSF2	SOI8	#19	point	29.88	1.08		b.d.	1.55	14.22	1.44		3.89	3.47	b.d.			2.83	33.35										91.71
YSF2	SOI8	#20	point	35.08	0.79		0.94	0.62	12.29			3.43	2.68				2.36	39.29						0.56				98.07

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF2	SOI8	#21	point	31.02	b.d.		0.35	0.54	10.51				4.87				2.05	47.44										96.79
YSF2	SOI8	#22	point	34.11	2.78		0.32	0.90	15.16			2.03	3.44				2.16	33.91							2.41			97.22
YSF2	SOI8	#23	point	34.63	1.37		1.22	0.77	9.88			1.27	2.31	b.d.			1.40	43.24							1.23			97.32
YSF2	SOI8	#24	point	33.66	1.31		0.17	0.84	14.37			3.67	3.20				2.80	37.04							0.35			97.41
YSF2	SOI8	#25	point	33.79	0.29		0.23	1.30	14.78			0.13	5.62				2.79	38.96										97.90
YSF2	SOI8	#26	area	33.84	1.43	b.d.	0.20	0.94	14.86			3.72	3.31				2.93	37.17										98.41
YSF2	SOI9	#1	area	30.80	b.d.	0.35	2.45	10.01	1.30				0.19	0.26	0.70	0.21	2.58	51.97										100.82
YSF2	SOI9	#2	point	33.24	b.d.	0.14		0.11	16.53				10.80				3.85	28.42										93.09
YSF2	SOI9	#3	point	26.02			0.79	1.17	3.42			0.11	0.12	0.86			0.79	66.62										99.90
YSF2	SOI9	#4	point	37.48	b.d.	b.d.	0.10	0.29	3.48				1.76				0.24	51.75										95.10
YSF2	SOI9	#5	point	31.45		0.35	0.37	12.26	1.45				0.10				3.05	52.35										101.37
YSF2	SOI9	#6	point	33.06	0.19	0.42	0.50	12.44	1.67				b.d.				2.93	52.97										104.19
YSF2	SOI9	#7	point	31.40	0.23	0.32	0.32	12.56	0.82				0.12				2.97	51.92										100.66
YSF2	SOI9	#8	point	31.75	b.d.	0.34	0.41	12.22	1.41								2.92	51.67										100.71
YSF2	SOI9	#9	point	31.17	b.d.	0.39	0.32	12.73	0.79								2.83	51.74										99.96
YSF2	SOI9	#10	point	31.68		0.52	0.27	12.85	0.74				b.d.				2.96	51.89										100.91
YSF2	SOI9	#11	point	32.17	b.d.	0.62	0.30	12.60	1.07								3.07	51.83										101.66
YSF2	SOI9	#12	point	37.80			b.d.	1.15	0.51	0.30							0.72	59.45										99.93
YSF2	SOI9	#13	point	22.63		0.16	7.55	0.18	0.15					0.94	7.20	12.12	1.02	40.15										92.09
YSF2	SOI9	#14	point	23.93	b.d.	b.d.	11.43	0.36	0.15					1.71	7.11	4.46	1.07	43.30										93.53
YSF2	SOI9	#15	point	23.09		0.18	7.91	0.13						0.80	7.21	15.19	1.03	37.68										93.21
YSF2	SOI9	#16	point	28.18		0.19	19.36	0.23						1.56	3.62	0.28	0.85	42.30										96.56
YSF2	SOI9	#17	point	25.81			0.35	1.02	3.26					0.61	0.52		1.14	68.31										101.03
YSF2	SOI9	#18	point	22.12			0.46	0.27						0.42	0.78		0.74	75.18										99.97
YSF2	SOI9	#19	point	28.14	b.d.	0.17	19.85	0.36	0.20				0.08	1.59	2.96	0.21	1.04	41.09										95.70
YSF2	SOI9	#20	point	32.46		0.21	0.28	10.70	3.62								2.73	50.67										100.66
YSF2	SOI9	#21	point	36.76	0.42	0.30	b.d.	0.29	17.00			0.57	9.23				4.72	29.87										99.16
YSF2	SOI9	#22	point	22.41			9.00								1.15	7.63	7.66	0.98	42.62									91.44
YSF2	SOI10	#1	point	22.59			0.53	0.25						0.49	0.66		0.71	72.94										98.18
YSF2	SOI10	#2	point	22.36			0.48	0.21						0.57	0.57		0.55	74.00										98.74
YSF2	SOI10	#3	point	21.90			0.25	0.21						0.23	0.58		0.68	74.79										98.64
YSF2	SOI10	#4	point	25.43	b.d.		0.44	1.51	2.69					0.71	0.52		0.88	66.92										99.10
YSF2	SOI10	#5	point	26.93			0.62	1.66	2.57				0.13	0.76	0.35		0.89	67.34										101.25

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF2	SOI10	#6	point	22.98			0.32	0.21						0.45	0.41		0.61	74.51										99.49
YSF2	SOI10	#7	point	34.82	0.87	0.19		0.91	15.81			4.54	3.59	0.10			3.87	33.15										97.85
YSF2	SOI10	#8	point	34.40	1.24	0.22	b.d.	0.85	15.92			4.14	3.49				3.77	33.77										97.80
YSF2	SOI10	#9	point	32.67			22.23	0.26	0.82			0.31	0.24	1.15	1.22	0.17	0.97	39.12										99.16
YSF2	SOI10	#10	point	21.60		0.14	8.07							0.94	7.86	13.50	0.95	36.56										89.64
YSF2	SOI10	#11	point	22.11		0.14	7.77							1.03	7.36	10.32	1.02	38.97										88.71
YSF2	SOI10	#12	point	30.82		0.21	21.96	0.39						1.08	1.17		0.88	39.04										95.55
YSF2	SOI10	#13	point	21.81			7.99							0.99	7.96	12.63	1.07	38.64										91.10
YSF2	SOI10	#14	point	30.33			19.94	0.46						2.00	1.72		0.85	42.52										97.81
YSF2	SOI10	#15	point	32.00			20.84	0.53						1.83	1.41		0.78	42.12										99.51
YSF2	SOI10	#16	point	31.03			20.26	0.45						2.14	1.42		0.87	43.08										99.25
YSF2	SOI10	#17	point	31.23		0.33	0.37	12.49	0.99								2.59	50.33										98.33
YSF2	SOI10	#18	point	31.41	b.d.	0.34	0.42	12.41	1.17								2.86	51.50										100.10
YSF2	SOI10	#19	point	34.85	b.d.	0.17	0.40	12.87	1.44			b.d.					2.47	48.04										100.24
YSF2	SOI10	#20	point	33.57	b.d.	0.21	0.31	12.10	1.92					b.d.	0.12		2.45	47.78										98.46
YSF2	SOI10	#21	point	25.45	b.d.		0.51	1.69	2.28					0.83	0.44		0.92	65.56										97.68
YSF2	SOI10	#22	point	7.03	0.30	0.11	b.d.	0.99	3.92	3.03		0.89	1.64	0.18			1.65	22.92			0.33							42.99
YSF2	SOI10	#23	point	36.93	0.50	b.d.	0.15	0.37	15.28			1.96	3.64				2.63	32.09										93.55
YSF2	SOI10	#24	point	32.59	0.20			0.93	15.53				5.97				3.36	35.05										93.62
YSF2	SOI10	#25	point	34.07	0.98	0.15	b.d.	0.88	15.66			4.32	3.39				3.56	33.56										96.60
YSF2	SOI10	#26	point	31.39			20.63	0.53	0.29					1.59	1.52		0.75	40.87										97.56
YSF3	SOI1	#1	area	29.76	b.d.	0.19	2.52	8.38	3.39	0.20		0.32	0.67	0.31	0.49	0.20	2.24	51.02										99.68
YSF3	SOI3	#1	area	29.43	0.25	0.14	1.98	8.00	3.55	0.33		0.36	0.78	0.21	0.33	b.d.	2.14	51.61										99.11
YSF3	SOI4	#1	area	29.48	0.25	0.21	2.32	8.27	2.58	0.22		0.24	0.49	0.26	0.54	0.14	2.26	51.40										98.65
YSF3	SOI5	#1	area	29.30		0.24	1.94	8.32	3.55	0.21		0.41	0.68	0.23			2.32	45.53										92.73
YSF3	SOI5	#2	area	30.47			2.44	8.28	2.69			0.19	0.55	0.32	0.42		2.36	53.17										100.90
YSF3	SOI5	#3	area	30.12	b.d.	b.d.	2.04	8.61	3.21			0.33	0.56	0.24	0.20	b.d.	2.23	48.46										96.00
YSF3	SOI6	#1	area	28.88	0.23	0.21	2.31	7.97	2.50	0.16		0.21	0.51	0.26	0.43	0.19	2.16	48.86										94.87
YSF3	SOI9	#1	area	29.58	0.19	0.15	2.15	7.62	3.88	0.21		0.54	0.72	0.27	0.16		2.34	45.09										92.90

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF3	SOI9	#2	point	32.39	0.97	0.12	b.d.	0.76	14.58			4.08	3.23				3.21	29.60										88.95
YSF3	SOI9	#3	point	20.47			0.25	0.15	0.12					0.42			0.58	64.54										86.54
YSF3	SOI9	#4	point	21.70			0.40	1.22	2.30					0.55			0.76	57.36										84.28
YSF3	SOI9	#5	point	30.22	1.07	b.d.		0.67	14.14			3.65	2.39				3.00	30.39										85.53
YSF3	SOI9	#6	point	27.39		0.32	0.32	11.13	0.95								2.33	44.90										87.33
YSF3	SOI9	#7	point	27.60		0.32	0.51	10.30	1.54				b.d.				2.41	44.20										86.88
YSF3	SOI9	#8	point	27.77	b.d.	0.14	0.24	10.47	1.70				0.11				2.13	43.99										86.55
YSF3	SOI9	#9	point	27.73			18.69	0.61						1.35	0.82		0.79	35.01										84.99
YSF3	SOI9	#10	point	19.05			0.25	0.22						0.19	0.39		0.56	63.39										84.04
YSF3	SOI10	#1	area	28.59	b.d.	0.24	1.87	8.48	3.57	0.27		0.37	0.72	0.19	0.41		2.29	50.15										97.14
YSF3	SOI10	#2	point	29.61		b.d.	0.33	12.90	1.40								2.68	53.27										100.18
YSF3	SOI10	#3	point	29.26	b.d.	0.47	0.35	13.22	0.93								2.80	52.52										99.55
YSF3	SOI10	#4	point	29.51		b.d.	0.30	11.80	2.66					b.d.			2.51	51.07										97.86
YSF3	SOI10	#5	point	30.13		0.29	0.47	13.08	1.38								2.80	53.81										101.97
YSF3	SOI10	#6	point	29.62		0.26	0.40	12.72	1.71								2.76	53.76										101.22
YSF3	SOI10	#7	point	27.27		0.44	0.30	11.85	1.56								2.62	49.03										93.07
YSF3	SOI10	#8	point	26.59		0.37	0.32	11.05	1.77						0.24		2.70	46.61										89.66
YSF3	SOI11	#1	point	20.68			0.30	0.22						0.32			0.60	73.56										95.69
YSF3	SOI11	#2	point	23.21			0.52	1.43	2.66					0.53			0.93	65.96										95.25
YSF3	SOI11	#3	point	29.84			21.68	0.55						1.83	0.36		0.72	40.67										95.64
YSF3	SOI11	#4	point	28.37			14.49	1.34	0.19					3.80	0.36		0.68	46.67										95.91
YSF3	SOI11	#5	point	31.67			b.d.	0.56	16.79				8.44				2.99	32.62										93.07
YSF3	SOI11	#6	point	31.02	b.d.		0.19	2.90	13.55				0.49				2.28	44.72										95.14
YSF3	SOI11	#7	point	33.44			0.12	0.45	16.54				9.28				2.97	31.68										94.47
YSF3	SOI11	#8	point	30.93	b.d.		0.28	3.17	13.13				0.52				2.21	45.26										95.49
YSF3	SOI11	#9	point	28.83		0.14	0.25	9.75	4.45				0.18				2.55	48.61										94.76
YSF3	SOI11	#10	point	32.41			0.17	3.02	13.01				1.73				2.48	43.50										96.33
YSF3	SOI11	#11	point	32.26	1.29	0.14	b.d.	0.94	15.93			4.28	3.80				3.10	33.40										95.13
YSF3	SOI11	#12	point	32.39	1.03	0.12	b.d.	0.83	16.06			3.87	4.24				3.26	33.24										95.03
YSF3	SOI11	#13	point	31.65	1.20	b.d.	b.d.	0.82	16.16			4.41	3.99				3.44	32.70										94.37
YSF3	SOI11	#14	point	31.97	1.20	0.14	b.d.	0.90	16.05			4.29	3.35				3.06	33.42										94.38
YSF3	SOI11	#15	point	30.54	b.d.	b.d.	0.10	2.66	13.49			0.21	0.50				2.38	44.28										94.16
YSF3	SOI11	#16	point	28.65		b.d.	0.29	10.27	3.79				0.13				2.19	49.58										94.91

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF3	SOI11	#17	point	28.96		0.16	0.30	10.50	3.85				0.10				2.14	49.82										95.83
YSF3	SOI11	#18	point	29.02		b.d.	0.35	10.21	4.01								2.32	49.39										95.30
YSF3	SOI11	#19	point	28.24		0.16	0.37	11.09	2.78								2.41	49.99										95.04
YSF3	SOI11	#20	point	27.80			19.40	0.41						2.19	0.81		0.66	41.60										92.87
YSF3	SOI11	#21	point	26.50			19.95	0.51						1.59	1.10		0.79	38.72										89.16
YSF3	SOI11	#22	point	26.15			15.93	0.92	0.16					2.68	1.29		0.79	42.86										90.78
YSF3	SOI11	#23	point	27.05		0.16	0.35	11.14	2.07								2.28	48.22										91.27
YSF3	SOI11	#24	point	26.95		b.d.	0.41	11.29	2.11				0.14	b.d.			2.46	48.05										91.41
YSF3	SOI11	#25	point	27.60	b.d.	b.d.	0.25	8.94	5.09								2.14	46.12										90.14
YSF4	SOI1	#1	area	27.87	b.d.	0.27	2.43	8.30	3.03	0.16		0.23	0.57	0.26	0.20		2.12	48.48										93.93
YSF4	SOI2	#1	point	29.91			21.65	0.33						1.71	1.09		0.88	41.97										97.55
YSF4	SOI2	#2	point	28.40	b.d.	0.43	0.38	12.13	1.19				0.09				2.83	49.89										95.34
YSF4	SOI2	#3	point	28.42	b.d.	0.28	0.45	12.20	1.09				0.11				2.61	51.06										96.22
YSF4	SOI2	#4	point	28.72		b.d.	0.27	11.39	2.24		b.d.		b.d.				2.13	51.04										95.79
YSF4	SOI2	#5	point	26.85		b.d.	0.31	10.47	3.66					b.d.			2.20	51.17										94.66
YSF4	SOI2	#6	point	30.12	0.20	0.15	0.32	11.65	2.54				0.10				2.43	51.82										99.33
YSF4	SOI2	#7	point	29.71		0.27	0.39	12.93	1.06				0.12				2.84	52.95										100.28
YSF4	SOI2	#8	point	24.93			0.85	2.15	2.56					1.12			0.79	68.44										100.84
YSF4	SOI2	#9	point	21.55			0.44	0.28						0.45	0.38		0.66	76.89										100.66
YSF4	SOI2	#10	point	22.69			0.65	1.77	2.13					0.98			0.81	63.13										92.16
YSF4	SOI2	#11	point	19.71			0.35	0.22						0.49			0.67	69.40										90.83
YSF4	SOI3	#1	point	29.75			22.19	0.23						1.61	1.27		0.80	40.87										96.72
YSF4	SOI3	#2	point	28.22			18.66	0.57						2.25	1.53		0.96	42.75										94.95
YSF4	SOI3	#3	point	28.91			19.13	0.33						2.61	1.02		0.73	43.10										95.83
YSF4	SOI3	#4	point	30.08			17.58	0.52	0.60			0.16	0.16	3.77	0.68		0.77	44.67										98.99
YSF4	SOI3	#5	point	32.50	0.99	0.12	b.d.	0.95	16.04			4.54	3.72	0.14			3.64	34.28										96.92
YSF4	SOI3	#6	point	34.14	0.18		0.17	0.66	17.03				6.45				3.36	35.99										97.97
YSF4	SOI3	#7	point	26.13			2.36	2.75	3.44	1.07		0.18	0.45	b.d.			0.61	61.81										98.80
YSF4	SOI3	#8	point	17.42	b.d.	b.d.	0.36	0.71	6.43	22.34		0.70	2.04				1.12	50.10										101.21
YSF4	SOI3	#9	point	33.70			0.10	0.43	17.32			b.d.	6.21				3.52	36.22										97.50
YSF4	SOI3	#10	point	31.75	1.16		0.10	0.96	15.82			3.82	3.57	b.d.			3.07	35.86										96.11
YSF4	SOI3	#11	point	34.27	b.d.	b.d.	0.12	0.79	17.02				6.68				3.20	36.70										98.78

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF4	SOI3	#12	point	36.80	b.d.	b.d.	0.18		11.95	0.64		0.13	1.13				2.66	34.75										88.25
YSF4	SOI3	#13	point	24.16			0.61	1.57	3.40			0.08	b.d.	1.60			0.84	63.94										96.21
YSF4	SOI3	#14	point	30.36	b.d.		0.18	5.92	8.33			0.16	0.29				1.59	49.05										95.89
YSF4	SOI3	#15	point	32.86	1.30		b.d.	0.96	16.10			3.33	3.82				3.04	37.39										98.80
YSF4	SOI3	#16	point	34.82		b.d.	b.d.	0.65	17.39				6.85				3.38	36.15										99.24
YSF4	SOI3	#17	point	33.71			b.d.	0.89	17.09				6.49	b.d.			3.18	36.82										98.18
YSF4	SOI3	#18	point	32.80	0.31	b.d.	b.d.	0.47	1.19	2.53		0.18	0.39				0.79	56.75										95.41
YSF4	SOI3	#19	point	28.63			21.80	0.16	0.08					1.75	0.91		0.70	40.95										94.99
YSF4	SOI4	#1	point	21.31			0.40	0.31	b.d.					0.65	0.24		0.54	74.68										98.14
YSF4	SOI4	#2	point	21.08			0.42	0.21	0.10					0.58	0.14		0.58	73.73										96.83
YSF4	SOI4	#3	point	23.92			0.71	1.65	2.98				0.15	1.07			0.91	65.55										96.93
YSF4	SOI4	#4	point	24.33			0.74	1.74	2.53				0.14	0.81			0.80	66.12										97.22
YSF4	SOI4	#5	point	23.48		b.d.	0.59	1.50	2.81				b.d.	0.57			0.92	66.50										96.36
YSF4	SOI4	#6	point	23.89			0.79	1.87	2.61	0.23			0.09	0.70			0.74	67.23										98.15
YSF4	SOI4	#7	point	9.68		b.d.	0.12	0.30	2.71	32.47		0.10	1.28				0.62	53.75										101.03
YSF4	SOI4	#8	point	24.14	b.d.	b.d.	0.65	1.26	3.00				0.10	0.59			0.83	68.02										98.58
YSF4	SOI4	#9	point	24.03		b.d.	0.74	1.60	2.87				0.19	0.38			0.70	67.22										97.73
YSF4	SOI4	#10	point	32.21	1.15	0.13	0.12	0.95	16.01			4.45	3.54	0.15			3.37	34.23										96.31
YSF4	SOI4	#11	point	32.28	1.38	b.d.	b.d.	0.86	15.67			4.31	3.42				3.08	34.30										95.31
YSF4	SOI4	#12	point	32.07	0.18	b.d.	0.28	0.18	11.53	0.33		0.18	0.84				2.49	36.37										84.43
YSF4	SOI4	#13	point	36.47			0.14	0.58	17.30				6.94				3.30	35.20										99.92
YSF4	SOI4	#14	point	11.68		b.d.	b.d.	0.13	4.03	29.85		0.14	1.88				0.74	52.61			b.d.	b.d.						101.05
YSF4	SOI4	#15	point	8.54	0.29		0.16	0.22	2.81	31.97		0.89	0.76	b.d.			0.55	53.95										100.13
YSF4	SOI4	#16	point	30.69			0.12	0.28	11.74	12.28		0.39	4.45				2.30	43.28							0.45			105.98
YSF4	SOI4	#17	point	32.05	b.d.	b.d.	0.12	2.19	14.59				4.31				3.05	40.09										96.40
YSF4	SOI4	#18	point	29.83	0.20	b.d.	0.24	10.01	4.47				0.11				2.44	50.71										98.01
YSF4	SOI4	#19	point	30.33	b.d.	b.d.	0.23	10.39	3.97				0.08				2.51	51.30										98.80
YSF4	SOI4	#20	point	30.04	b.d.	b.d.	0.30	10.56	3.78				0.09				2.47	51.45										98.70
YSF4	SOI4	#21	point	32.84				0.78	16.40			0.14	6.33				3.11	36.53										96.13
YSF4	SOI4	#22	point	32.86	1.22	0.13	0.17	0.95	16.29			4.58	3.68				3.24	34.55										97.67
YSF4	SOI5	#1	point	24.22			0.59	1.32	2.88					0.74	0.17		0.84	67.50										98.25
YSF4	SOI5	#2	point	21.33			0.40	0.20						0.52	0.21		0.59	74.31										97.56
YSF4	SOI5	#3	point	20.68			0.22	0.20						0.38	0.28		0.58	73.63										95.98

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF4	SOI5	#4	point	21.15			0.35	0.28						0.50	0.24		0.65	73.33										96.49
YSF4	SOI5	#5	point	23.61			0.32	2.72	0.21					0.48			0.85	70.33										98.52
YSF4	SOI5	#6	point	32.43	1.29	0.13	0.10	0.64	16.34			4.37	3.54	b.d.			3.34	34.14										96.31
YSF4	SOI5	#7	point	29.12		0.31	0.34	13.11	0.57				b.d.				2.46	52.11										98.03
YSF4	SOI5	#8	point	28.83	b.d.		21.43	0.27						1.45	1.16		0.98	39.05										93.17
YSF4	SOI5	#9	point	32.75	1.35	b.d.	0.11	0.78	16.02			4.49	3.45	0.12	b.d.		3.44	33.83										96.35
YSF4	SOI5	#10	point	26.07			14.93	0.46						3.60	1.94		0.86	45.08										92.94
YSF4	SOI5	#11	point	23.49	b.d.	b.d.	0.47	1.44	2.73					0.98			1.12	66.15										96.38
YSF4	SOI5	#12	point	7.17			0.25	0.38	1.52	28.58			0.35	0.14			0.37	59.14			0.27							98.17
YSF4	SOI6	#1	area	28.76	b.d.	0.20	2.32	9.67	2.05	0.13		0.19	0.33	0.20	0.30		2.29	51.69										98.14
YSF4	SOI7	#1	area	29.18	0.39	0.07	4.30	2.47	7.92	0.97		1.07	2.01	0.58	0.45	0.05	1.96	46.60										98.04
YSF4	SOI8	#1	area	29.73	0.20	0.23	1.49	9.51	2.55	0.12		0.21	0.49	0.18	0.26		2.50	52.06										99.53
YSF4	SOI9	#1	point	30.51	b.d.	0.15	23.22	0.16						1.14	1.44		0.81	39.97										97.41
YSF4	SOI9	#2	point	28.26			19.23	0.43						1.94	2.64		0.83	42.37										95.69
YSF4	SOI9	#3	point	21.38			8.60	0.15						0.82	7.81	12.51	0.92	38.63										90.83
YSF4	SOI9	#4	point	30.30		0.22	4.25	5.24	1.56				0.17	0.88	5.49	4.10	1.68	47.83										101.73
YSF4	SOI9	#5	point	33.05	0.99	0.13		0.90	15.95			4.58	3.98	b.d.			3.70	33.03										96.30
YSF4	SOI9	#6	point	32.42	0.90		b.d.	0.92	15.64			4.75	3.90				3.52	33.65										95.71
YSF4	SOI9	#7	point	32.91	0.28		0.18	2.38	14.13				0.19				2.34	45.71										98.13
YSF4	SOI9	#8	point	37.30	0.27	b.d.	0.13	0.47	11.31	2.48		0.85	3.60				1.57	33.15										91.12
YSF4	SOI9	#9	point	28.17		0.27	21.88	0.29						1.17	2.05		0.81	38.92										93.56
YSF4	SOI9	#10	point	29.64		0.27	0.34	12.51	1.01								2.80	51.35										97.92
YSF4	SOI9	#11	point	30.52	b.d.	0.33	0.28	12.58	0.99				0.08		0.19		2.72	51.30										99.01
YSF4	SOI9	#12	point	30.54		0.18	0.32	12.63	1.17				0.09				2.69	51.98										99.59
YSF4	SOI9	#13	point	3b.d.565		0.45	0.32	12.75	0.98								2.97	51.72										99.19
YSF4	SOI9	#14	point	26.16		b.d.	0.60	1.47	3.62				0.14	1.10	0.17		0.94	67.46										101.66
YSF4	SOI9	#15	point	23.83			1.03	0.30						0.47	1.32	0.17	0.98	72.72										100.82
YSF4	SOI9	#16	point	21.14	b.d.		0.33	0.23						0.39	0.97		1.00	74.25										98.29
YSF4	SOI9	#17	point	22.84			0.37	0.99	2.95					0.52	0.42		0.83	66.21										95.13
YSF4	SOI9	#18	point	30.14	0.44		0.49	0.56	6.22	3.65		1.29	1.05				1.24	61.82										106.91
YSF4	SOI9	#19	point	8.33			0.33	0.16	0.52	28.22			0.15		0.19		0.31	61.03			0.39							99.63

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF4	SOI9	#20	point	24.49			0.47	1.27	3.04				0.14	0.89	0.17		0.81	66.43										97.71
YSF4	SOI9	#21	point	29.99			16.16	0.75	0.24				0.09	3.85	0.36		0.80	45.47										97.71
YSF4	SOI9	#22	point	30.19	0.18	b.d.	17.44	0.78	0.16					3.40	0.75		0.74	46.08										99.71
YSF4	SOI10	#1	area	30.23	0.29	0.17	2.64	7.60	4.56	0.27		0.48	0.95	0.30	0.23		2.41	49.99										100.13
YSF4	SOI11	#1	area	28.62	0.26	0.21	1.96	9.31	2.43	0.12		0.20	0.38	0.18	0.24		2.38	51.56										97.84
YSF5	SOI1	#1	area	28.46	b.d.	b.d.	1.76	7.91	1.62	0.15			0.25	0.13	b.d.		0.98	53.56										94.82
YSF5	SOI2	#1	point	35.21		0.28	0.43	13.11	1.81								1.56	47.05										99.45
YSF5	SOI2	#2	point	32.56		0.14	0.31	12.42	1.64				0.13				1.40	50.90										99.51
YSF5	SOI2	#3	point	31.60	b.d.	0.32	0.37	12.94	0.75				0.12				1.54	52.79										100.42
YSF5	SOI2	#4	point	32.17		0.26	0.38	13.01	0.94				0.09				1.54	54.23										102.61
YSF5	SOI2	#5	point	22.57			0.42	0.23						0.18	0.19		0.36	75.96										99.90
YSF5	SOI2	#6	point	34.56			24.39	0.58	0.09					0.65	0.25		0.41	39.98										100.92
YSF5	SOI2	#7	point	35.29			23.71	0.56						0.80	0.31		0.43	40.90										102.01
YSF5	SOI3	#1	area	19.40	b.d.	0.16	1.13	4.71	1.07	0.11			0.20	0.12			0.67	37.11										64.66
YSF5	SOI3	#2	area	33.91	b.d.	0.14	2.45	9.34	3.37	0.32	b.d.	0.25	0.74	0.14			1.35	50.10										102.11
YSF5	SOI3	#3	area	29.01	b.d.	0.19	1.99	7.82	2.49	0.20		0.13	0.49	0.20			1.14	47.05										90.72
YSF5	SOI4	#1	area	28.34		b.d.	1.88	9.22	1.77	0.18			0.29	0.15	b.d.		1.14	44.82										87.79
YSF5	SOI4	#2	area	25.15		b.d.	2.22	5.44	2.15	0.25			0.30	0.12	b.d.		0.83	45.90										82.35
YSF5	SOI4	#3	area	29.73		0.26	1.90	9.76	1.20	0.10			0.14	0.12	b.d.		1.23	52.91										97.36
YSF5	SOI4	#4	area	27.46		0.20	1.90	7.22	1.96	0.09			0.19	0.13	b.d.		1.10	47.57										87.82
YSF5	SOI5	#1	point	31.69	b.d.	0.26	0.41	12.65	1.13				0.09				1.60	53.18										101.01
YSF5	SOI5	#2	point	45.72	b.d.	b.d.	28.01	0.47	0.14					0.85	0.18		0.47	40.16										115.99
YSF5	SOI5	#3	point	22.21		b.d.	18.54	0.19						0.83	0.32		0.38	37.96										80.44
YSF5	SOI5	#4	point	33.82			22.89	0.97						0.92	0.14		0.45	39.53										98.70
YSF5	SOI5	#5	point	37.20	b.d.	b.d.	25.47	0.50						0.88	0.11		0.35	40.16										104.67
YSF5	SOI5	#6	point	22.56	b.d.		0.33	0.23						0.40	0.14		0.33	74.09										98.06
YSF5	SOI5	#7	point	31.72		0.33	0.42	12.40	1.30				0.12				1.53	53.01										100.85
YSF5	SOI5	#8	point	31.85		0.40	0.42	12.35	1.64				b.d.				1.47	52.40										100.52

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF5	SOI5	#9	point	24.56		b.d.	0.46	1.45	0.19					0.36	0.12		0.39	74.54										102.07
YSF6	SOI5	#1	area	43.77	b.d.	0.15	1.75	27.97				0.38		0.75			19.01	17.95										111.74
YSF6	SOI5	#2	area	42.52			1.86	22.63				0.38		0.94			25.13	25.13										118.59
YSF6	SOI5	#3	area	51.92		b.d.	0.27	45.31		0.09							0.76	1.14										99.47
YSF6	SOI5	#4	area	32.37			0.45	27.50				0.20		0.13			0.34	0.77										61.75
YSF6	SOI5	#5	area	42.94	0.15		0.98	33.61		b.d.		0.11		0.44			10.34	9.93										98.50
YSF6	SOI5	#6	point	1.51				0.10	0.04		0.13		0.17				0.10	0.82										2.87
YSF6	SOI5	#7	point	28.03	b.d.	0.07	1.42	21.22				1.17	0.13	0.78			1.52	1.38										55.72
YSF6	SOI5	#8	point	50.29			0.14	43.87		b.d.							0.38	0.28										94.96
YSF6	SOI5	#9	point	36.13	b.d.	b.d.	2.28	20.11		b.d.		0.37	0.14	0.81			22.28	21.88										103.99
YSF6	SOI6	#1	point	43.05			1.13	32.56		b.d.		0.54		0.42			7.12	6.35										91.15
YSF6	SOI6	#2	point	42.06	0.15		1.23	31.73				0.49		0.42			9.93	9.24										95.25
YSF6	SOI6	#3	point	35.38	b.d.	b.d.	0.94	18.94				0.22		0.51			22.64	21.49										100.10
YSF6	SOI6	#4	point	35.64			1.25	19.65				0.31		0.55			20.97	20.23										98.59
YSF6	SOI6	#5	area	37.77	b.d.	b.d.	1.59	23.20				0.34		0.66			18.56	17.67										99.79
YSF6	SOI6	#6	area	34.97			1.64	19.77				0.28	0.13	0.70			20.33	19.88										97.70
YSF6	SOI7	#1	area														0.24	98.54										98.78
YSF6	SOI7	#2	area														0.27	92.72										92.99
YSF6	SOI7	#3	area	40.19		b.d.	2.92	25.96		b.d.		1.23	0.12	0.62			13.77	12.76										97.58
YSF6	SOI7	#4	area	35.75		0.15	3.23	19.38		0.08		0.69	0.17	0.65			19.97	17.33										97.40
YSF6	SOI7	#5	area	45.23		0.10	1.08	37.16		b.d.		0.22	b.d.	0.40			7.78	10.67										102.63
YSF6	SOI7	#6	point	53.06			0.24	45.96									0.33	0.43										100.02
YSF6	SOI9	#1	point	41.61	0.14		7.93	22.45		0.23		0.46	0.47	1.78			13.63	9.36										98.05
YSF6	SOI9	#2	point	32.79		b.d.	0.50	15.93				0.12		0.21			25.74	24.23										99.51
YSF6	SOI9	#3	point	32.67		0.12	0.27	14.67				0.09		0.13			26.43	25.39										99.77
YSF6	SOI9	#4	point	34.59		0.15	0.91	17.77		b.d.		0.32		0.43			23.63	22.40										100.20
YSF6	SOI9	#5	area	34.65	b.d.	0.14	1.22	18.58				0.40		0.38			22.37	21.33										99.08
YSF6	SOI9	#6	point	39.74			5.30	19.64		0.13		0.69	0.26	6.23	0.85	0.39	11.43	14.32										98.98
YSF6	SOI9	#7	point	40.45			5.57	20.25		0.10		0.61	0.36	5.70	0.80	0.28	11.40	13.62										99.13
YSF6	SOI9	#8	point	33.21	b.d.	0.17	0.34	15.80				0.09					26.48	25.18										101.28
YSF6	SOI9	#9	point	52.13			0.64	45.13		b.d.							0.70	1.35										99.96

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF6	SOI10	#1	area	40.18	b.d.		1.16	30.28		b.d.		0.11		0.53			12.06	11.61										95.94
YSF6	SOI10	#2	point				0.15	b.d.	0.16									92.28										92.59
YSF6	SOI10	#3	point		b.d.	b.d.	b.d.	b.d.									0.45	106.11										106.55
YSF6	SOI10	#4	point	40.55	b.d.	b.d.	2.91	17.43				0.50		2.21			20.31	30.58										114.48
YSF7	SOI1	#1	point	39.57	b.d.	b.d.	7.93	23.36		0.35		0.37	0.55	1.96			12.03	10.86										96.97
YSF7	SOI1	#2	point	30.88			0.32	15.38						0.24			23.79	29.13										99.74
YSF7	SOI1	#3	point	29.69			0.19	14.52						0.15			23.14	28.43										96.12
YSF7	SOI1	#4	point	40.29			3.54	17.41		0.11		0.41	0.24	13.31	0.61		11.16	13.81										100.90
YSF7	SOI1	#5	point	43.91	b.d.	b.d.	3.97	18.28		0.13		0.42	0.27	12.39	0.65		10.60	13.49										104.10
YSF7	SOI1	#6	point	3b.d.08		b.d.	0.17	14.76						0.19			23.21	28.56										96.89
YSF7	SOI1	#7	point	50.04	b.d.	b.d.	0.11	46.66		b.d.							0.34	0.34										97.50
YSF7	SOI1	#8	area	31.68		b.d.	0.47	17.61		b.d.		0.18		0.30			20.50	25.19										95.92
YSF7	SOI1	#9	area	31.60		0.12	0.41	17.75				0.16		0.27			20.68	25.54										96.55
YSF7	SOI1	#10	point	31.07			0.45	17.10				0.27		0.16			20.71	25.56										95.33
YSF7	SOI1	#11	point	31.12		b.d.	0.45	16.96		b.d.		0.27		0.20			20.64	25.68										95.32
YSF7	SOI1	#12	point	35.98	b.d.	b.d.	0.74	23.17		b.d.		0.20		0.34			17.57	22.11										100.10
YSF7	SOI2	#1	area	40.82			0.84	32.16		b.d.		b.d.	0.10	0.74			11.60	14.76										101.03
YSF7	SOI3	#1	area	40.18	b.d.		1.65	34.47		b.d.		0.95		0.15			1.94	1.28										80.63
YSF7	SOI3	#2	area	37.65	b.d.	b.d.	1.15	30.91		b.d.	b.d.	0.44		0.41			4.94	6.95										82.45
YSF7	SOI3	#3	point						0.13									56.84										56.96
YSF7	SOI3	#4	point	25.03			0.11	1.78									0.63	39.80										67.35
YSF7	SOI3	#5	point	1.25			0.05	0.58				0.04		0.10			0.49	15.64										18.15
YSF7	SOI3	#6	point	26.25			0.98	14.27		b.d.	b.d.	1.23		0.39			2.38	22.66										68.17
YSF7	SOI3	#7	point	3.45			0.04	0.74									0.15	9.41										13.78
YSF7	SOI3	#8	point	46.04	b.d.	b.d.	2.95	36.89		b.d.		1.95		0.39			5.35	6.42										100.00
YSF7	SOI3	#9	point	38.32	b.d.	0.18	3.29	29.18		b.d.		1.82		0.53			4.98	2.09										80.38
YSF8	SOI1	#1	point	16.57			b.d.	0.37	0.08	0.12								46.32										63.46
YSF8	SOI1	#2	point	23.43				0.83	0.18								0.20	62.85										87.48
YSF8	SOI1	#3	point	21.29			b.d.	0.18	b.d.	0.29							0.20	43.30										65.27
YSF8	SOI1	#4	point	31.03	b.d.	b.d.	0.18	2.88	0.62	0.72							0.26	50.87										86.55
YSF8	SOI1	#5	area	19.86		0.12	b.d.	0.49	0.26	0.85			0.32				0.68	40.93										63.51

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF8	SOI1	#6	area	26.79	b.d.	0.17	0.51	3.50	1.49	0.48			0.16				1.35	50.89										85.33
YSF8	SOI4	#1	area	26.47		0.22	1.69	7.20	3.96	0.46			0.54	0.24			4.15	47.44										92.36
YSF8	SOI4	#2	area	21.21		0.23	1.43	5.71	3.01	0.30			0.39	0.25			3.41	41.53										77.48
YSF8	SOI4	#3	area	25.65		0.27	0.97	7.78	4.39	0.52			0.51				4.32	44.07										88.46
YSF8	SOI4	#4	area	27.02		0.35	1.90	7.61	3.80	0.51			0.49	0.24			4.11	50.32										96.36
YSF8	SOI4	#5	area	29.80		0.29	1.81	8.88	4.38	0.38			0.54	0.16	0.16		4.87	50.93										102.21
YSF8	SOI5	#1	area	30.27	b.d.	0.37	1.90	9.61	3.69			0.15	0.33	0.25	0.20		4.49	49.14										100.41
YSF8	SOI5	#2	area	30.55	b.d.	0.20	1.79	7.93	4.58			0.11	0.70	0.30	0.17		5.79	45.56										97.68
YSF8	SOI5	#3	area	28.65	b.d.	0.34	2.02	9.93	2.99			b.d.	0.21	0.32	0.25		3.94	48.76										97.39
YSF8	SOI6	#1	area	26.84		0.35	0.48	11.29	2.44	0.11			0.13	0.10	0.20		3.67	45.92										91.52
YSF8	SOI6	#2	area	29.51	0.19	0.24	0.98	12.92	2.55			0.23	0.17	0.12	0.14		3.21	43.02										93.30
YSF8	SOI6	#3	area	29.40	0.33	0.29	1.30	5.79	8.45			0.18	1.50	0.21	0.15		6.70	38.89										93.19
YSF8	SOI6	#4	point	22.51		b.d.	0.25	1.51									0.99	64.61										89.88
YSF8	SOI6	#5	point	25.88	b.d.	0.17	18.96	0.25						1.35	1.83	1.21	1.73	40.76										92.14
YSF8	SOI6	#6	point	23.84	b.d.	0.17	14.70	0.60						2.28	3.07	2.34	1.80	43.05										91.85
YSF8	SOI6	#7	point	23.54			1.84	0.22						0.55	0.30		1.32	67.99										95.76
YSF8	SOI6	#8	point	26.30		0.18	22.01	0.20						1.22	1.32	0.49	1.66	38.03										91.40
YSF8	SOI6	#9	point	21.35		0.26	11.77	0.32						0.97	4.16	9.13	1.88	39.07										88.91
YSF8	SOI6	#10	point	21.74			2.52	0.50						0.88	0.34		1.35	63.84										91.16
YSF8	SOI6	#11	point	21.09			1.16	0.35						0.25			1.05	67.37										91.28
YSF8	SOI6	#12	point	30.76		0.69	b.d.	0.45	17.39				2.90				13.62	29.13										94.95
YSF8	SOI6	#13	point	27.07	0.31	0.20	1.38	2.28	5.78	0.16			1.12	0.10			3.05	39.63										81.05
YSF8	SOI6	#14	point	26.52	b.d.	0.57	0.32	12.71	1.05								5.53	46.06										92.76
YSF8	SOI6	#15	point	25.73			13.88	0.32						1.52	1.65	2.45	1.96	46.76										94.27
YSF8	SOI6	#16	point	23.17			1.03	0.30						0.28	0.21		1.16	68.85										95.00
YSF8	SOI6	#17	point	24.31		0.19	16.79	0.51						1.75	2.36	1.91	1.52	40.76										90.12
YSF8	SOI6	#18	point	26.53		0.77	0.42	11.84	1.74				0.09				7.41	43.35										92.15
YSF8	SOI6	#19	point	29.87	b.d.	0.44	0.35	13.54	2.06			0.24					3.47	41.86										91.82
YSF8	SOI8	#1	area	29.18	b.d.	b.d.	0.50	14.85	0.72			0.12					2.03	44.30										91.70
YSF8	SOI8	#2	point	40.70			0.79	37.15									0.26	3.76										82.67
YSF8	SOI8	#3	point	35.95			0.79	30.65	0.64			b.d.					0.90	22.30										91.23

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF8	SOI8	#4	point	21.92			0.81	0.25						1.03	0.67		0.94	67.02										92.64
YSF8	SOI8	#5	point	22.81	b.d.	b.d.	10.38	0.73	0.65					1.91	2.10	0.65	1.93	47.32										88.48
YSF8	SOI8	#6	point	24.82		0.19	16.60	0.72						1.73	1.96	1.55	1.92	42.41										91.90
YSF8	SOI8	#7	point	25.59		0.15	19.52	0.45						1.53	1.85	1.34	1.68	39.10										91.20
YSF8	SOI8	#8	point	26.87		b.d.	19.59	0.96						0.57	1.32	0.66	1.73	41.47										93.19
YSF8	SOI8	#9	point	26.60		0.59	0.21	12.97	0.83								5.48	47.15										93.83
YSF8	SOI8	#10	point	29.37		0.74	b.d.	0.50	16.47				1.80				11.52	30.48										90.88
YSF8	SOI8	#11	point	26.05		0.49	0.30	12.54	0.99								5.56	46.55										92.47
YSF8	SOI8	#12	point	24.67			0.72	3.40	0.35								1.04	65.46										95.64
YSF8	SOI8	#13	point	23.11	b.d.		0.64	2.20									0.98	66.64										93.57
YSF8	SOI8	#14	point	20.31			0.64	0.37						0.78	0.98	0.41	1.14	66.25										90.88
YSF8	SOI8	#15	point	33.15			0.30	26.71	0.17								0.69	31.18										92.21
YSF8	SOI8	#16	point	21.64			1.28	0.72	0.16					0.75	0.95	0.34	1.21	64.40										91.45
YSF8	SOI8	#17	point	10.70	b.d.	0.15	0.40	4.60	2.73			0.14	0.53				2.78	17.79										39.83
YSF8	SOI8	#18	point	22.38		b.d.	0.50	0.32						0.17	0.19		0.88	67.39										91.83
YSF8	SOI8	#19	point	22.87			3.63	0.57						0.47	0.42		1.05	62.80										91.82
YSF8	SOI8	#20	point	30.27	b.d.	0.72		0.81	16.14				1.67				11.00	30.77										91.39
YSF8	SOI8	#21	point	29.66	b.d.	0.87	b.d.	0.75	16.64				1.80				11.87	30.05										91.64
YSF8	SOI8	#22	point	26.49	b.d.	0.50	0.28	12.31	1.39								5.90	46.46										93.34
YSF8	SOI8	#23	point	24.61	b.d.	b.d.	3.83	4.08	0.36			0.18		0.73	0.60		1.96	54.82										91.18
YSF8	SOI8	#24	point	29.13		0.72	0.12	0.48	16.34				1.79				11.83	30.03										90.43
YSF8	SOI9	#1	area	25.01		0.36	1.62	7.80	2.82	0.24			0.36	0.28	0.23		4.22	49.74										92.68
YSF8	SOI10	#1	point	21.33		b.d.	0.44	1.62	2.58					0.68	0.30		1.98	64.89										93.82
YSF8	SOI10	#2	point	26.66		0.36	0.31	12.84	0.91								5.01	48.31										94.41
YSF8	SOI10	#3	point	24.51	0.91	0.29	0.12	2.47	9.67	4.36		0.83	3.09				5.76	39.23										91.25
YSF8	SOI10	#4	point	19.14			0.24	0.16						0.12	0.28		1.25	72.24										93.44
YSF8	SOI10	#5	point	19.69		b.d.	1.36	0.37	0.32					1.94	1.13	0.19	1.41	66.29										92.69
YSF8	SOI10	#6	point	19.19			0.22	0.20						0.19	0.16		1.24	72.61										93.81
YSF8	SOI10	#7	point	30.62	b.d.	0.39	b.d.	0.27	17.12				4.91				8.26	31.27										92.85
YSF8	SOI10	#8	point	29.66	2.94	0.17		0.89	15.58			1.92	2.68				5.89	31.34							2.22			93.28
YSF8	SOI10	#9	point	23.11		0.23	0.27	4.72	2.45					0.16	0.20		2.96	59.14										93.25
YSF8	SOI10	#10	point	23.74	0.45	0.35	0.27	3.65	9.17	0.56		0.20	3.65				6.21	38.27										86.52
YSF8	SOI10	#11	point	28.10	0.21	0.23	22.91	0.42						1.28	0.71	0.19	1.68	37.56										93.28

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF8	SOI11	#1	area	23.48		0.27	1.56	6.53	3.09	0.36			0.27	0.23			3.50	47.42										86.71
YSF8	SOI11	#2	area	31.13	0.78	0.24	0.27	0.90	14.87	1.41		1.07	3.32				6.30	35.62							0.45			96.35
YSF8	SOI11	#3	area	26.23	b.d.	0.37	0.30	11.11	2.32				0.12				5.03	46.03										91.51
YSF8	SOI11	#4	area	29.38				2.58	12.06	0.83							0.76	34.30										79.91
YSF8	SOI12	#1	area	26.28	b.d.	0.24	1.89	7.62	3.68	0.39		0.11	0.47	0.21	0.20		4.13	49.95										95.16
YSF9	SOI1	#1	area	31.19	b.d.	0.15	1.25	6.90	4.18	0.13		0.12	1.20	0.29			2.10	51.91										99.43
YSF9	SOI2	#1	point	38.86	b.d.	0.20	b.d.	0.19	17.89				11.21				3.85	29.14										101.34
YSF9	SOI2	#2	point	31.76			19.30	1.03						1.31	0.64	0.27	0.83	42.70										97.84
YSF9	SOI2	#3	point	32.15			17.43	0.79						2.02	0.80	0.38	0.74	46.81										101.11
YSF9	SOI2	#4	point	31.71			18.56	0.63						1.86	0.67	0.35	0.74	46.05										100.58
YSF9	SOI2	#5	point	26.42			0.55	1.38	3.06				0.12	0.42	0.16		0.89	68.73										101.73
YSF9	SOI2	#6	point	33.18	b.d.	0.18	0.39	11.93	2.43				0.16				2.63	52.04										102.94
YSF9	SOI2	#7	point	32.70	0.20	0.33	0.36	11.69	2.26				0.16				2.74	50.66										101.10
YSF9	SOI2	#8	point	17.29	0.60	b.d.	0.09	0.66	8.23	0.68		0.21	6.60				3.21	30.06										67.63
YSF9	SOI2	#9	point	37.31	b.d.	0.17	b.d.	0.15	17.73				11.08				3.89	29.30										99.63
YSF9	SOI3	#1	point	32.24		0.16	0.35	11.38	1.84								2.23	54.80										103.00
YSF9	SOI3	#2	area	31.38		0.20	1.20	6.82	4.04	0.15		0.12	0.84	0.16	b.d.		2.27	54.96										102.15
YSF9	SOI3	#3	area	29.22	b.d.	0.16	0.97	7.51	3.31	0.09			0.72	0.11	0.13		2.19	49.27										93.67
YSF9	SOI3	#4	area	34.53	b.d.	0.24	1.41	7.79	4.60			0.10	0.76	0.16	0.22		2.49	60.32										112.63
YSF9	SOI4	#1	area	29.71	b.d.	b.d.	1.33	6.76	3.96	0.23			0.66	0.23	0.15		2.09	55.11										100.24
YSF9	SOI5	#1	area	31.06		0.27	1.48	8.48	5.09			0.13	1.05	0.11			2.43	47.63										97.73
YSF9	SOI5	#2	area	31.33	b.d.	0.17	1.43	6.74	3.90	0.14		0.10	0.74	0.27	0.15	0.17	2.17	60.06										107.38
YSF9	SOI5	#3	area	31.29	0.42	b.d.	0.60	2.49	11.37	1.25		0.65	3.11	0.16			2.62	40.99										94.97
YSF9	SOI6	#1	point	24.26			0.39	0.24					0.11	0.24			0.33	68.43										94.00
YSF9	SOI6	#2	point	35.27		b.d.	b.d.	0.75	16.97				6.86				3.73	35.28										98.85
YSF9	SOI6	#3	point	14.09			0.92	1.08	1.49	18.88			0.21	0.42			0.48	61.04										98.62
YSF9	SOI6	#4	point	33.03	b.d.		0.15	7.70	7.90			0.37	0.44				2.12	48.51										100.22
YSF9	SOI6	#5	point	31.35	0.45	0.12	0.23	6.34	8.80	0.23		0.38	0.51				2.10	46.77										97.28

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF9	SOI6	#6	point	31.59		0.23	0.43	11.95	2.42				0.14				2.69	51.96										101.42
YSF9	SOI6	#7	point	37.58		0.16	b.d.	0.50	18.21				8.17				4.01	34.08										102.70
YSF10	SOI1	#1	point	26.28		0.21	0.24	10.43	0.88								2.33	43.54										83.91
YSF10	SOI1	#2	area	29.01	0.24	0.16	2.16	8.20	2.44			0.25	0.57	0.24	0.34		2.19	46.11										91.89
YSF10	SOI2	#1	area	31.50	b.d.	0.16	2.30	8.96	2.56	0.14		0.23	0.55	0.29	0.55		2.49	50.21										99.94
YSF10	SOI3	#1	point	22.94		b.d.	7.69	0.20						1.50	8.24	11.57	1.06	39.56										92.76
YSF10	SOI3	#2	point	35.25	1.00	0.20	b.d.	0.78	16.37			4.67	4.29				3.82	32.97										99.36
YSF10	SOI3	#3	point	35.14	1.24	0.15	0.30	0.80	15.82			4.40	4.25				3.50	36.55										102.13
YSF10	SOI3	#4	point	21.49			9.83	0.17						2.01	7.51	0.76	0.92	49.38										92.07
YSF10	SOI3	#5	point	31.67		0.45	0.39	12.81	0.87								3.11	52.30										101.60
YSF10	SOI3	#6	point	32.04		0.30	0.34	12.87	0.86				b.d.				2.94	51.98										101.33
YSF10	SOI3	#7	point	31.40		0.20	0.26	12.44	1.08				0.11				2.95	52.02										100.45
YSF10	SOI3	#8	point	31.16	0.21	0.32	0.36	12.22	1.24				0.09				2.81	51.38										99.80
YSF10	SOI3	#9	point	31.40		0.14	0.26	11.92	1.62				0.12				2.50	50.89										98.85
YSF10	SOI3	#10	point	33.29		0.14	20.76	0.60						1.46	0.94		0.90	43.13										101.22
YSF10	SOI4	#1	point	35.24			0.10	1.69	15.14				7.57				3.13	35.70										98.57
YSF10	SOI4	#2	point	21.71			7.84	0.13						1.44	7.00	8.29	1.04	43.59										91.04
YSF10	SOI4	#3	point	22.37	b.d.	0.24	7.81	0.34						1.20	6.71	8.91	0.91	41.71										90.19
YSF10	SOI4	#4	point	30.02	b.d.	0.21	4.70	8.61	0.90					0.61	0.99	0.20	2.08	49.38										97.68
YSF10	SOI4	#5	point	31.10		0.39	0.44	12.41	1.00								2.90	50.74										98.97
YSF10	SOI4	#6	point	36.41	1.28	0.16	b.d.	0.73	16.63			4.19	4.46	b.d.			3.66	33.64										101.17
YSF10	SOI4	#7	point	32.61		b.d.	0.28	4.90	10.06				0.38				2.44	47.86										98.53
YSF10	SOI4	#8	point	36.10	0.20	b.d.	0.14	2.43	14.55			0.09	1.95				2.46	44.30										102.23
YSF10	SOI4	#9	point	35.10	1.00	0.15	b.d.	0.77	16.28			4.68	4.52				3.80	32.89										99.19
YSF10	SOI4	#10	point	10.16	0.38		b.d.	0.43	10.63			1.79	5.95	0.10			2.95	30.12										62.52
YSF10	SOI4	#11	point	22.46	0.58		0.40	0.56	9.51	11.42		2.46	2.38				2.07	49.09										100.94
YSF10	SOI4	#12	point	10.40	0.17	b.d.	b.d.	0.58	8.98		0.14	0.70	4.54				2.54	30.82										58.87
YSF10	SOI4	#13	point	25.91			0.47	1.44	3.06				0.19	0.90			0.81	65.99										98.77
YSF10	SOI4	#14	point	33.40			0.80	0.62	10.97	0.83			5.16				1.77	47.57										101.12
YSF10	SOI5	#1	area	30.66	b.d.	0.21	2.19	8.72	2.75			0.28	0.62	0.27	0.35	0.22	2.32	49.84										98.46

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF10	SOI6	#1	area	28.84	b.d.		2.16	8.18	2.82	0.13		0.34	0.67	0.24	0.35	0.16	2.20	46.69										92.79
YSF10	SOI7	#1	area	29.61	b.d.	0.21	2.20	8.08	3.27	b.d.		0.39	0.78	0.26	0.42		2.25	47.90										95.36
YSF10	SOI8	#1	area	31.18	0.23	0.20	2.40	8.82	2.68	0.09		0.33	0.56	0.22	0.48	0.23	2.54	51.94										101.90
YSF10	SOI10	#1	point	21.44		0.19	8.90	0.20						1.94	8.07	4.54	1.02	44.74										91.04
YSF10	SOI10	#2	point	30.10			16.12	0.96						2.87	1.03		0.82	46.36										98.26
YSF10	SOI10	#3	point	32.60			20.57	0.59						2.00	0.58		0.75	42.95										100.03
YSF10	SOI10	#4	point	23.17			0.41	0.28						0.57	0.17		0.60	75.09										100.29
YSF10	SOI10	#5	point	26.07			0.54	1.90	2.86					1.01			0.79	65.20										98.36
YSF10	SOI10	#6	point	35.43	0.86		b.d.	0.87	16.17			4.97	5.43				3.37	32.46										99.56
YSF10	SOI10	#7	point	34.34	0.99			0.98	15.93			4.73	5.01				3.31	32.95										98.24
YSF10	SOI10	#8	point	34.43	0.93			0.90	15.76			4.75	5.02				3.11	32.52										97.41
YSF10	SOI10	#9	point	34.92	2.90	b.d.		0.51	16.69			1.36	4.06				2.39	34.54							2.89			100.27
YSF10	SOI10	#10	point	40.08	0.30		b.d.	1.25	15.81	2.45		0.32	7.52				2.64	37.48										107.85
YSF10	SOI10	#11	point	31.59			0.32	9.82	4.57				0.16				2.48	50.63										99.58
YSF10	SOI10	#12	point	31.04	b.d.		0.62	0.70	7.37	6.67		0.54	2.39	0.27			0.99	55.45										106.04
YSF10	SOI10	#13	point	34.38	2.80		b.d.	0.65	16.00			1.52	3.65	b.d.			2.37	34.33							3.23			98.93
YSF10	SOI10	#14	point	39.79	0.21		0.18	2.82	13.54			0.15	4.76				2.19	41.56										105.20
YSF10	SOI10	#15	point	38.19	0.79			b.d.	18.16			0.40	24.87				1.10	13.52										97.04
YSF10	SOI10	#16	point	32.90			18.19	0.82	0.22					2.38	0.99		0.88	44.30										100.68
YSF10	SOI10	#17	point	22.68			0.48	0.22						0.52	0.33		0.61	73.54										98.38
YSF10	SOI10	#18	point	4.58			0.21	0.19	0.78	0.62			0.36				0.30	96.75			0.57							104.38
YSF10	SOI10	#19	point	34.50	1.06	b.d.	b.d.	0.84	15.55			4.22	4.77	0.11			3.25	34.24										98.54
YSF11	SOI2	#1	area	34.23	b.d.	0.17	1.21	8.65	3.52			0.18	0.58	0.26	b.d.		2.26	49.43										100.49
YSF11	SOI2	#2	area	29.54	b.d.		1.30	5.74	0.42			0.15	0.17	0.20			1.41	55.55										94.49
YSF11	SOI2	#3	area	32.81	0.21	b.d.	1.31	8.01	2.33			0.17	0.44	0.21	0.20		1.98	50.41										98.08
YSF11	SOI3	#1	point	36.46	0.18	0.48	1.07	2.13	13.99			0.09	2.23	0.23			7.50	33.32										97.68
YSF11	SOI3	#2	point	28.15		b.d.	1.12	1.15	0.11					0.18	0.16	0.31	0.97	66.40										98.55
YSF11	SOI3	#3	point	27.53			1.11	0.77	0.14					0.15	0.20	0.37	1.08	66.94										98.28
YSF11	SOI3	#4	point	36.51	b.d.	0.48	1.72	3.23	14.23			0.12	1.70	0.17			7.16	32.99										98.30
YSF11	SOI3	#5	point	31.93	0.24	0.33	1.20	5.39	9.16	0.10		0.14	1.67	0.23			4.89	35.98										91.28

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11	SOI3	#6	point	34.09	0.22	0.13	1.33	14.90	3.88			0.27	0.50	0.19	0.19		2.13	36.39										94.23
YSF11	SOI3	#7	point	28.95			1.02	1.24	0.23					0.25		0.22	1.17	65.87										98.93
YSF11	SOI3	#8	point	28.93		b.d.	0.86	0.18						0.15			2.14	66.37										98.62
YSF11	SOI3	#9	area	36.72	b.d.	0.27	1.23	7.01	9.55			0.21	1.40	0.30			5.10	35.72										97.51
YSF11	SOI4	#1	area	31.63	b.d.	b.d.	1.66	8.72	2.26	0.53		0.12	0.42	0.27	0.31	0.19	1.01	52.93										100.05
YSF11	SOI4	#2	area	19.59			0.67	2.21	0.44	b.d.		0.08	0.30	0.14	0.15		0.88	51.92										76.38
YSF11	SOI5	#1	point	24.19			5.12							1.04	3.13	9.09	0.37	49.87										92.81
YSF11	SOI5	#2	point	26.52			1.94	0.33						0.51	0.72	0.43	0.39	65.56										96.39
YSF11	SOI5	#3	point	35.26	b.d.	0.14	1.39	12.83	3.92	0.65		b.d.	0.72				1.51	43.47										99.89
YSF11	SOI5	#4	point	34.91	b.d.	0.18	1.33	13.02	3.64	0.35		0.29	0.29	b.d.			1.37	45.69										101.07
YSF11	SOI5	#5	area	34.94	b.d.	0.20	1.40	13.18	3.76	0.61		0.22	0.55	b.d.			1.46	44.54										100.86
YSF11	SOI5	#6	point	27.91			1.23	11.78	3.60	0.72			0.69				1.52	43.50										90.95
YSF11	SOI5	#7	point	15.91			1.01	7.54	2.62	0.71			0.76	0.18	0.20		1.18	40.16										70.27
YSF11	SOI5	#8	point	26.09	b.d.		1.98	0.36						0.47	0.72	0.39	0.33	65.84										96.18
YSF11	SOI5	#9	point	28.59		b.d.	1.92	2.59	0.45				0.10	0.48	0.55	0.34	0.47	63.14										98.64
YSF11	SOI7	#1	area	32.82	0.23	0.13	1.39	11.58	0.87			0.23	0.63	0.21	0.18		1.06	50.15										99.48
YSF11	SOI7	#2	area	31.65	b.d.	0.19	1.34	10.30	0.67			0.18	0.57	0.23	0.11		1.08	48.11										94.44
YSF11	SOI7	#3	area	31.35	b.d.	0.26	1.08	14.62	1.17	0.20		0.24	0.58	b.d.			1.78	41.62										92.91
YSF11	SOI8	#1	area	31.50	b.d.	0.24	1.34	8.47	1.99			0.13	0.40	0.17	0.15		1.61	51.19										97.18
YSF11	SOI8	#2	area	30.09	b.d.	0.16	1.20	8.02	1.78			0.15	0.42	0.16	0.11		1.63	50.16										93.88
YSF11	SOI9	#1	area	32.42	b.d.	0.21	1.48	7.10	2.42			0.13	0.70	0.34	0.31	0.25	1.92	52.70										99.98
YSF11	SOI10	#1	area	34.30	0.24	0.48	3.36	9.79	2.23			0.14	1.40	0.30	0.29		1.27	45.29										99.08
YSF11	SOI11	#1	area	31.72	b.d.	b.d.	1.12	6.59	2.96	0.17		0.19	0.54	0.20	0.12		1.71	54.29										99.61
YSF11	SOI11	#2	area	31.66	b.d.	0.15	1.27	6.68	2.86	0.14		0.13	0.53	0.15	0.19		1.71	54.30										99.78
YSF11	SOI12	#1	point	35.14	b.d.	0.27	1.24	10.79	5.59	0.24		0.15	0.98	b.d.			2.76	42.26										99.41
YSF11	SOI12	#2	point	27.60														70.91										98.50
YSF11	SOI12	#3	area	38.68	0.30	0.21	1.50	14.18	4.25			0.28	0.70	0.20			1.93	40.29										102.52

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11	SOI12	#4	area	37.17	b.d.	0.36	1.24	8.09	9.29	0.25		b.d.	1.45				4.12	39.51										101.49
YSF11	SOI12	#5	point	27.45			1.45	0.22						0.16	0.22	0.24	0.64	67.96										98.33
YSF11	SOI12	#6	point	28.99			1.47	0.76	0.22					0.24	b.d.	0.35	0.65	66.49										99.17
YSF11	SOI12	#7	point	27.68	b.d.		1.26	0.45	0.14					0.23	0.20	0.24	0.72	67.97										98.89
YSF11	SOI12	#8	point	36.23	b.d.	0.34	1.39	10.24	7.27	0.29			1.16	0.11			3.65	40.02										100.69
YSF11	SOI23	#1	area	27.27			b.d.	b.d.	0.13									71.57										98.98
YSF11	SOI23	#2	area	28.71	b.d.	b.d.	1.31	4.67	0.22	b.d.		0.12	0.13	0.12	0.17	0.11	0.18	60.27										96.02
YSF11	SOI23	#3	area	28.86			0.13											71.47										100.45
YSF11	SOI23	#4	area	29.34			b.d.	b.d.										72.84										102.17
YSF11	SOI23	#5	area	28.30			b.d.	b.d.										72.86										101.16
YSF11	SOI23	#6	area	28.79				b.d.										71.97										100.76
YSF11	SOI23	#7	area	28.67	b.d.		0.11	0.48										71.76										101.01
YSF11	SOI23	#8	area	28.90			b.d.	b.d.	0.17									71.35										100.42
YSF11	SOI23	#9	area	30.87				b.d.	0.20									69.16										100.24
YSF11	SOI23	#10	area	28.52	b.d.			b.d.	0.12									70.80										99.43
YSF11	SOI23	#11	area	29.43		b.d.	0.14	b.d.										71.08										100.65
YSF11	SOI23	#12	area	28.73			b.d.	b.d.										71.01										99.74
YSF11	SOI23	#13	area	30.12	b.d.		b.d.	0.11	0.13									71.98										102.34
YSF11	SOI23	#14	area	26.70				0.10	b.d.									72.20										99.00
YSF11	SOI23	#15	area	30.62				b.d.	0.14									71.39										102.16
YSF11	SOI23	#16	area	31.41	b.d.		b.d.	0.13	0.29				0.09					69.76										101.68
YSF11	SOI23	#17	area	28.78	0.22		0.16	b.d.	0.19									71.18										100.53
YSF11	SOI23	#18	area	30.60	b.d.		0.22	0.18	0.14									70.76										101.90
YSF11	SOI23	#19	area	31.83				0.31	0.77				0.16					68.46										101.53
YSF11	SOI23	#20	area	27.75		b.d.	0.14	0.17	0.20								b.d.	66.38										94.63
YSF11	SOI23	#21	area	28.54			b.d.	0.23	0.26									71.24										100.27
YSF11	SOI23	#22	area	29.93			0.27	0.16	0.17				b.d.					70.31										100.84
YSF11	SOI23	#23	area	31.07			0.12	0.95	0.13									69.76										102.04
YSF11	SOI26	#1	area	28.25			b.d.	0.23										72.30										100.78
YSF11	SOI26	#2	area	29.60			b.d.	0.17	0.24									67.13										97.15
YSF11	SOI26	#3	area	28.32				b.d.	0.19									71.95										100.47
YSF11	SOI26	#4	area	24.32			0.12	0.16										68.20										92.79
YSF11	SOI26	#5	area	29.67	b.d.		0.42	0.66	0.13									70.38										101.26

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11	SOI26	#6	area	30.24			0.14											71.91										102.30
YSF11	SOI26	#7	area	29.74	b.d.	b.d.	b.d.	b.d.	0.16									72.87										102.78
YSF11	SOI26	#8	area	30.32	b.d.		b.d.	0.12	0.45									72.00										102.89
YSF11	SOI26	#9	area	31.78														72.37										104.14
YSF11	SOI26	#10	area	34.07			0.14	0.14										70.27										104.62
YSF11	SOI26	#11	area	28.24			0.11	0.54	0.12									68.44										97.46
YSF11	SOI26	#12	area	31.59			0.12	0.11	0.10									7b.d.372										101.93
YSF11	SOI26	#13	area	31.58			0.17	b.d.	b.d.									70.06										101.81
YSF11	SOI26	#14	area	32.43			0.19	0.19	0.13									68.59										101.54
YSF11	SOI26	#15	point	35.87			0.22	0.16	b.d.	0.16								68.21										104.62
YSF11	SOI26	#16	point	33.43			0.38	0.87	1.07	0.15		b.d.	0.14					63.85										99.88
YSF11	SOI26	#17	point	35.29	b.d.	0.19	1.22	0.65	0.36	b.d.			0.15	0.11				62.15										100.12
YSF11	SOI26	#18	point	35.34			0.18	0.14	b.d.									70.94										106.60
YSF11	SOI26	#19	point	32.04	b.d.		0.13	b.d.	b.d.									70.36										102.53
YSF11	SOI26	#20	point	33.03	b.d.	b.d.	0.55	0.88	0.34	0.20		0.09	0.25	b.d.	b.d.		0.24	57.74										93.31
YSF11	SOI27	#1	area	34.19	b.d.	0.19	2.36	10.80	1.56			0.28	0.59	0.34	0.18		0.97	53.11										104.55
YSF11	SOI30	#1	area	31.41		0.13	1.63	5.53	2.68			0.16	0.29	0.27	0.17	0.27	1.48	56.33										100.34
YSF11	SOI30	#2	area	34.26	b.d.	b.d.	1.54	7.61	3.87			0.20	0.43	0.13	b.d.	0.14	1.85	54.11										104.14
YSF11	SOI30	#3	point	27.66			1.58	0.16						0.18	0.18	0.22	0.75	69.08										99.81
YSF11	SOI30	#4	point	27.09		b.d.	1.88	0.22						0.18	0.42	0.24	0.68	67.79										98.50
YSF11	SOI30	#5	point	27.41			2.68	0.13						0.32	0.57	3.93	0.94	62.74										98.71
YSF11	SOI30	#6	point	27.14			3.73	0.24	b.d.	b.d.				0.54	0.97	3.58	0.68	63.71										100.60
YSF11	SOI30	#7	area	35.93	b.d.	0.27	1.42	8.99	8.01	0.16			0.88	0.12			3.37	42.44										101.58
YSF11	SOI30	#8	point	28.32		b.d.	2.19	0.12						0.21	0.36	1.35	0.74	67.24										100.53
YSF11	SOI30	#9	point	27.15		b.d.	1.73	0.11						0.20	0.23	0.16	0.65	69.09										99.31
YSF11	SOI32	#1	point	36.91	0.22	0.63	2.13	6.30	12.05			0.15	1.97	0.18			2.07	37.42										100.03
YSF11	SOI32	#2	point	37.73	0.17	0.70	2.26	5.00	13.11	0.18		0.12	2.02	0.23	b.d.		2.38	36.27										100.18
YSF11	SOI32	#3	point	28.83			1.31	1.12						0.17	0.18	0.12	0.43	69.24										101.40
YSF11	SOI32	#4	point	30.34	b.d.	b.d.	1.20	3.92	0.22			0.09	b.d.	0.16	0.24	0.13	0.31	65.92										102.54
YSF11	SOI32	#5	area	34.06	0.19	0.15	1.45	10.07	2.45			0.16	0.40	0.19	b.d.	0.11	0.56	52.70										102.49
YSF11	SOI34	#1	area	34.07	0.23	0.29	1.87	7.99	3.97	0.14		0.25	0.73	0.16	0.20		2.80	50.74										103.44

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11	SOI34	#2	area	31.74	0.21	0.24	1.88	7.39	3.70	0.13		0.22	0.73	b.d.	b.d.		2.80	50.22										99.26
YSF11	SOI36	#1	area	35.11	0.19	0.26	2.02	8.84	4.02			0.32	0.53	0.15	0.17		1.93	50.26										103.80
YSF11	SOI36	#2	area	27.99	b.d.	b.d.	1.53	5.81	0.51			0.24	0.23	0.17	b.d.		0.88	53.82										91.17
YSF11	SOI36	#3	area	34.04	0.32	0.19	1.98	7.91	2.91			0.33	0.46	0.25	0.19		1.68	52.16										102.42
YSF11	SOI38	#1	area	32.51	b.d.	b.d.	1.09	7.67	2.26	0.10		0.15	0.29	0.22	0.11	0.14	1.60	55.62										101.76
YSF11	SOI38	#2	area	33.23	b.d.	b.d.	1.01	8.73	2.76	0.20		0.11	0.32	0.17	0.14		1.70	53.42										101.78
YSF11	SOI38	#3	area	35.19	b.d.	0.20	1.04	10.41	6.30	0.43		0.08	0.64	0.11			3.23	44.91										102.55
YSF11	SOI38	#4	point	26.86			1.06	1.46	0.22					0.19	0.37	0.37	0.68	68.02										99.22
YSF11	SOI38	#5	point	28.22			0.89	1.19	0.18					0.12	0.21	0.31	0.77	68.22										100.13
YSF11	SOI38	#6	point	26.67			0.91	0.32						0.17	0.23	0.19	0.79	70.65										99.94
YSF11	SOI38	#7	point	36.59	b.d.	b.d.	1.19	3.09	0.36			b.d.	0.13	b.d.	0.23		1.58	64.36										107.54
YSF11	SOI38	#8	point	16.29			0.95	0.35						0.18	0.39	1.09	0.65	64.41										84.32
YSF11	SOI38	#9	point	35.31	b.d.	0.18	1.16	9.86	7.21	0.40			0.79	b.d.			3.71	42.51										101.13
YSF11	SOI40	#1	area	32.44	b.d.	0.17	1.91	7.48	2.55			0.29	0.48	0.19	0.16	0.11	1.66	54.12										101.56
YSF11	SOI40	#2	area	33.36	0.20	0.20	2.10	8.01	2.98			0.29	0.59	0.22	b.d.	b.d.	1.89	53.10										102.95
YSF11	SOI40	#3	area	27.88	b.d.	b.d.	1.77	3.65	0.55			0.18	0.20	0.14	b.d.	0.14	1.14	60.47										96.12
YSF11	SOI42	#1	area	33.70	0.20	0.34	2.47	8.97	3.36	b.d.		0.27	0.70	0.28	0.64	0.19	2.40	48.80										102.33
YSF11	SOI44	#1	area	31.39	0.26	0.24	1.32	10.17	1.08	0.16		0.14	1.06	0.22	0.11	b.d.	1.15	54.01										101.33
YSF11	SOI44	#2	area	33.17	0.32	0.33	1.62	15.06	1.75	0.13		0.23	1.73	0.30	b.d.		1.34	45.51										101.47
YSF11	SOI44	#3	point	27.94			1.07	0.66					b.d.	b.d.	0.21	0.26	0.47	70.15										100.76
YSF11	SOI44	#4	point	27.34		b.d.	1.02	0.97					b.d.	0.12	0.12		0.87	68.40										98.84
YSF11	SOI44	#5	point	27.55			1.13	0.55					0.16	0.29	0.21	0.22	0.40	71.54										102.06
YSF11	SOI44	#6	point	27.68		b.d.	0.22	b.d.									0.75	69.58										98.23
YSF11	SOI46	#1	area	34.76	0.18	0.24	2.66	12.20	2.11	0.22		0.35	0.66	0.22	0.34	0.20	0.83	47.61										102.59
YSF11	SOI48	#1	area	32.28	b.d.	0.22	2.61	7.89	2.15	0.48		0.28	0.68	0.18	0.18	0.11	1.64	51.99										100.69
YSF11	SOI48	#2	area	26.03		0.16	2.50	1.02	0.62				0.32	0.30	0.26	0.29	1.03	58.86										91.37
YSF11	SOI48	#3	area	28.86	b.d.	b.d.	2.90	1.71	1.61	b.d.			0.59	0.28	0.18	b.d.	0.45	55.23										91.81
YSF11	SOI48	#4	area	38.96	0.19	b.d.	2.23	8.16	2.33			0.17	1.47				0.17	42.27										95.95

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11	SOI48	#5	area	25.66	b.d.	b.d.	2.29	3.50	2.04			0.17	0.94	0.13			0.27	46.05										81.05
YSF11	SOI48	#6	area	33.58	0.22	0.31	2.51	10.40	2.47	0.65		0.31	0.68	0.13	0.14	0.12	2.05	50.53										104.10
YSF11	SOI50	#1	area	32.71	b.d.	0.25	2.25	9.19	2.08	0.17		0.27	0.93	0.35	0.22	0.15	1.85	52.17										102.60
YSF11	SOI52	#1	area	33.15	b.d.	0.17	1.45	9.11	3.35			0.17	0.60	0.20	0.20		2.36	50.76										101.50
YSF11	SOI52	#2	area	33.43	0.22	0.14	1.52	9.33	3.48			0.16	0.55	0.20	0.22		2.45	50.59										102.29
YSF11	SOI52	#3	area	24.39	0.19	b.d.	1.12	4.13	0.44			0.14	0.19	0.13	b.d.	0.17	1.63	55.87										88.40
YSF11	SOI54	#1	area	32.98		0.21	1.61	7.86	3.66			0.16	0.47	0.19	0.24	0.21	2.33	52.55										102.45
YSF11	SOI54	#2	area	30.71	0.20	b.d.	1.49	7.51	3.24			0.14	0.41	0.21	0.30	0.15	2.12	51.18										97.66
YSF11	SOI56	#1	area	34.23		0.15	2.39	11.83	1.09			0.30	0.52	0.24	b.d.		0.90	50.91										102.56
YSF11	SOI58	#1	area	30.04	b.d.	0.26	2.02	8.10	1.72			0.13	0.79	0.19	0.29	0.12	1.85	52.53										98.05
YSF11a	SOI4	#1	area	22.10			1.14	2.13	0.29			0.15	0.31	0.11	0.16	b.d.	b.d.	59.18										85.57
YSF11a	SOI4	#2	point	26.53			0.15	0.11	0.99									66.17										93.95
YSF11a	SOI5	#1	area	29.30	b.d.		0.94	4.93	1.03		0.12	0.16	0.14	0.11	0.12		0.88	53.79										91.50
YSF11a	SOI5	#2	area	30.81				0.23										70.81										101.85
YSF11a	SOI5	#3	area	32.32			b.d.	0.11										70.63										103.06
YSF11a	SOI5	#4	point	33.72			0.12	b.d.	0.10									69.89										103.83
YSF11a	SOI5	#5	point	29.92			0.18	b.d.	0.31									71.97										102.38
YSF11a	SOI5	#6	point	35.80			0.35	0.26	0.11	b.d.								65.87										102.39
YSF11a	SOI5	#7	point	30.58			b.d.	b.d.										70.28										100.86
YSF11a	SOI5	#8	point	31.64			0.17	b.d.										72.45										104.26
YSF11a	SOI6	#1		28.44			0.18	0.51	0.20									69.86										99.19
YSF11a	SOI6	#2		30.81			b.d.	b.d.		0.47								69.04										100.32
YSF11a	SOI6	#3		28.04			0.23	0.41	b.d.	b.d.								68.21										96.88
YSF11a	SOI6	#4		26.16			b.d.											69.78										95.95
YSF11a	SOI6	#5		29.62					0.51	0.14								71.67										101.94
YSF11a	SOI6	#6		31.77			0.14											68.30										100.21
YSF11a	SOI6	#7		33.87			0.25	0.21	0.18									69.20										103.71

			O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF11a	SOI6	#8	35.47			0.20	b.d.	0.34	0.09								68.35										104.44
YSF11a	SOI6	#9	37.21			0.28	b.d.	0.10	0.34								68.51										106.44
YSF11a	SOI6	#10	31.18			1.07											67.00										99.26
YSF11a	SOI6	#11	37.56			0.14	0.13										71.98										109.81
YSF11a	SOI6	#12	34.06		b.d.	0.21	b.d.		0.20								69.61										104.07
YSF11a	SOI6	#13	35.79			0.16	b.d.	0.38	0.13	b.d.							70.28										106.74
YSF11a	SOI6	#14	37.75	b.d.	b.d.	0.26		0.14	0.62			b.d.					65.14										103.90
YSF11a	SOI7	#1	Area			b.d.	0.24	0.09				0.09					69.21										97.60
YSF11a	SOI7	#2	Area			0.14	0.25	0.13									69.06										98.71
YSF11a	SOI7	#3	Area						0.12								71.29										103.70
YSF11a	SOI7	#4	Area														72.17										102.39
YSF11a	SOI8	#1	area			0.12											69.88										100.35
YSF11a	SOI8	#2	area			b.d.		0.12									72.63										102.34
YSF11a	SOI8	#3	area			b.d.	b.d.	b.d.				b.d.					70.93										102.63
YSF11a	SOI8	#4	area			0.17	0.11	0.19									71.19										102.58
YSF11a	SOI8	#5	area			b.d.	0.10	0.20									71.14										104.66
YSF11a	SOI8	#6	area			0.12	0.13										68.85										101.49
YSF11a	SOI8	#7	area			0.15	b.d.	0.15	0.18			0.12					65.06										91.16
YSF11a	SOI8	#8	area			0.11	b.d.	b.d.				0.12					69.63										103.84
YSF11a	SOI8	#9	area			0.12	0.14	0.21				0.13					70.19										103.88
YSF11a	SOI8	#10	area			b.d.	b.d.	0.23				0.19					69.97										101.39
YSF11a	SOI8	#11	point					0.21									73.89										102.74
YSF11a	SOI8	#12	point			0.12		0.30									72.39										103.39
YSF12	SOI1	#1	area			0.26	0.19		0.99		0.11	0.08					0.34										5.24
YSF12	SOI1	#2	area	44.84	b.d.	0.26	0.09	b.d.	0.19	0.10		34.22															79.69
YSF12	SOI1	#3	point	29.93					0.09			0.42					58.85										89.29
YSF12	SOI1	#4	point	30.24		0.14	0.84	0.91	0.31		0.21	0.89	0.12			0.63	63.04										97.34
YSF12	SOI3	#1	area	36.14	0.20	0.21	1.63	9.30	1.30	0.11		0.24	0.66	0.25	0.18		54.22										105.40
YSF12	SOI3	#2	area	33.34		0.21	0.77	1.87				0.41	0.11	0.12		1.10	67.05										104.99
YSF12	SOI3	#3	area	36.64		0.19	1.79	10.90	1.56			0.24	0.73	0.26	0.12		51.27										104.60

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF12	SOI5	#1	area	35.64	b.d.	b.d.	1.07	9.67	2.44			0.09	0.38	0.20	0.24	0.19	0.67	52.73										103.32
YSF12	SOI5	#2	point	31.16			0.57	0.10	b.d.					b.d.	0.29		0.57	71.80										104.51
YSF12	SOI5	#3	point	31.01			0.81	0.47						0.18	0.36	0.46	0.61	70.37										104.28
YSF12	SOI5	#4	point	29.55			0.74	0.23						0.14	0.39	0.68	0.32	69.86										101.91
YSF12	SOI5	#5	point	29.22			0.82	0.38						0.16	0.33	0.68	0.38	69.62										101.59
YSF12	SOI5	#6	point	15.30	0.26	0.11	0.47	10.69	3.52		0.08	0.20	0.65	0.17	0.27		0.69	28.22										60.62
YSF12	SOI5	#7	point	38.84	0.32	0.31	2.65	2.09	16.03			0.17	2.00	0.45	0.61		2.42	32.85										98.75
YSF12	SOI5	#8	point	38.70	0.21	0.24	1.68	13.02	4.89			0.13	0.51	0.30	0.33		0.89	45.94										106.84
YSF12	SOI5	#9	area	39.06	0.36	0.29	2.35	4.48	12.85			0.15	1.72	0.41	0.56		2.16	38.48										102.87
YSF12	SOI5	#10	area	36.39	b.d.	b.d.	1.17	10.35	2.84			b.d.	0.39	0.23	0.36	0.17	0.75	51.29										103.94
YSF12	SOI5	#11	area	35.97	0.26		0.95	6.42	1.42			0.18	0.29	0.21	0.31	0.18	0.71	58.85										105.75
YSF12	SOI6	#1	area	34.81	b.d.	b.d.	1.86	8.76	2.00			0.27	0.37	0.19	b.d.		0.81	52.45										101.52
YSF12	SOI8	#1	area	37.49	b.d.	0.30	1.20	11.04	2.37			0.16	0.49	0.22	0.18		1.07	51.35										105.85
YSF12	SOI8	#2	area	39.44	b.d.	0.31	1.45	13.28	4.81				0.97	0.13	b.d.		2.01	42.35										104.75
YSF12	SOI8	#3	area	40.18	0.17	0.15	1.28	15.72	2.80			0.11	0.63	0.17	0.16	b.d.	1.11	42.32										104.79
YSF12	SOI8	#4	point	39.23		0.39	1.51	12.89	5.13				0.97	0.13			2.17	42.41										104.82
YSF12	SOI8	#5	point	29.83			0.97	1.43	b.d.					0.21	0.28	0.16	0.42	70.17										103.46
YSF12	SOI10	#1	area	34.93	0.25	0.19	2.51	8.72	2.07		0.11	0.33	0.58	0.35	0.35	0.18	1.64	50.06										102.28
YSF12	SOI11	#1	area	33.92	b.d.	0.14	1.43	8.78	1.48			0.18	0.43	0.13	b.d.		0.88	51.89										99.27
YSF12	SOI12	#1	area	32.06	b.d.	b.d.	0.47	5.44	0.75			b.d.	0.18	b.d.	0.12	0.14	0.34	61.94										101.43
YSF12	SOI12	#2	area	27.01		b.d.	0.25	2.67	0.14				0.08				0.35	64.01										94.51
YSF12	SOI12	#3	point	30.13			0.36	1.28										69.16										100.93
YSF12	SOI12	#4	point	29.97	b.d.	b.d.	0.34	1.12	b.d.				b.d.		0.14			70.10										101.67
YSF12	SOI12	#5	point	27.34	b.d.	b.d.	0.34	0.59	0.10				0.09				0.28	69.05										97.80
YSF12	SOI12	#6	point	36.11	b.d.	b.d.	0.59	11.06	2.75			b.d.	0.59	0.15	b.d.		0.49	50.07										101.81
YSF12	SOI14	#1	area	36.65	b.d.	0.19	1.70	10.90	2.05			0.25	0.45	0.25	0.19	0.13	0.69	50.12										103.57
YSF12	SOI14	#2	area	35.01	b.d.	0.18	1.56	10.06	1.32			0.19	0.59	0.18	b.d.	0.11	0.59	50.78										100.58
YSF12	SOI16	#1	area	36.46	b.d.	0.19	1.25	10.28	2.14			0.14	0.44	0.18	0.27	0.12	2.00	50.06										103.52

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF12	SOI17	#1	area	37.90	b.d.	0.25	2.56	11.19	1.34			0.29	0.58	0.22	0.12		0.82	50.43										105.70
YSF12	SOI18	#1	area	32.81	b.d.	b.d.	1.21	7.12	1.45			0.12	0.17	0.12	0.14	0.11	1.08	53.83										98.16
YSF12	SOI18	#2	area	31.55	0.24	0.16	1.40	7.31	1.04			0.18	0.32	0.12	0.11	b.d.	0.72	53.08										96.24
YSF12	SOI18	#3	point	30.73			1.77	1.05	0.10				b.d.	0.19	0.24		0.37	66.12										100.55
YSF12	SOI18	#4	area	40.40	0.24	0.21	1.69	14.54	3.63			0.15	1.00	0.15			1.36	39.73										103.10
YSF12	SOI18	#5	point	29.75			0.61	0.16							0.12	b.d.	0.54	67.45										98.64
YSF12	SOI18	#6	point	29.50		b.d.	1.40	2.91	0.53				0.12	0.17	0.11	0.17	0.62	66.15										101.67
YSF12	SOI19	#1	point	30.17		b.d.	1.36	0.70						0.20	0.32		0.44	69.20										102.40
YSF12	SOI19	#2	point	33.87	0.23	b.d.	1.40	6.86	0.20			0.13	0.19	0.15	0.18		0.55	62.12										105.85
YSF12	SOI19	#3	point	30.62		b.d.	1.39	4.01	0.48			0.19	0.49	0.18	0.18	0.18	0.73	57.13										95.57
YSF12	SOI19	#4	point	30.35		b.d.	1.55	0.98						0.33	0.25	0.38	0.27	69.46										103.57
YSF12	SOI19	#5	point	40.57	b.d.	0.39	2.42	13.78	5.25	0.29		0.09	2.12				1.98	38.61										105.51
YSF12	SOI19	#6	point	39.40		0.43	2.23	12.35	5.62	0.57		0.14	2.26	0.15			1.98	38.65										103.77
YSF12	SOI19	#7	area	45.67	b.d.	0.21	2.03	17.86	2.73	0.11		0.30	1.25	0.13			1.11	38.88										110.29
YSF12	SOI19	#8	area	36.59	0.23	0.23	1.76	10.44	1.67	0.11		0.25	0.74	0.15	0.19	0.12	0.77	51.45										104.67
YSF12	SOI19	#9	point	28.26		0.16	0.96	0.15						0.11	0.18		0.86	69.41										100.09
YSF12	SOI19	#10	point	31.99		b.d.	1.79	2.73	0.12				b.d.	0.20	0.33	0.26	0.26	67.11										104.80
YSF12	SOI22	#1	area	33.86	0.23	0.18	1.63	8.11	1.89			0.19	0.51	0.20	b.d.		0.85	54.36										101.99
YSF12	SOI22	#2	area	35.37	b.d.	0.19	1.84	7.40	1.72		b.d.	0.18	0.47	0.17	0.15		0.69	58.58										106.76
YSF12	SOI22	#3	area	28.02	b.d.	0.14	1.40	6.20	1.46		0.12	0.15	0.43	0.14	0.10		0.59	45.92										84.67
YSF12	SOI22	#4	point	29.99			1.98	0.58						0.19	0.21	0.40	0.28	68.74										102.37
YSF12	SOI22	#5	point	29.03	b.d.		2.25	0.23						0.16	0.28	0.54	0.41	68.16										101.06
YSF12	SOI22	#6	point	28.28			1.77	0.36						0.16	0.20	0.18	0.39	68.12										99.46
YSF12	SOI22	#7	point	32.17	b.d.	0.14	1.44	2.05	0.20			0.08	0.09	0.17	0.14		0.34	68.38										105.20
YSF12	SOI22	#8	area	39.40	b.d.	0.30	1.98	13.18	5.14				1.40	0.15	b.d.		1.71	41.29										104.54
YSF12	SOI24	#1	area	33.56		b.d.	1.74	7.85	1.86			0.21	0.26	0.29	0.41	0.20	1.36	53.68										101.42
YSF12	SOI24	#2	area	36.67	0.23	0.16	1.94	10.23	0.98			0.24	0.71	0.22	0.17		1.20	53.90										106.66
YSF12	SOI25	#1	area	34.76	0.23	0.30	2.31	9.40	1.59			0.27	0.76	0.26	0.34	0.19	1.52	48.96										100.89
YSF12	SOI25	#2	area	32.90	0.22	0.41	2.30	7.64	2.05	3.84		0.48	1.08	0.23	0.45	b.d.	1.71	50.20										103.52
YSF12	SOI25	#3	area	37.72	b.d.	0.31	2.99	8.12	3.26			0.33	0.52	0.31	0.46	0.28	1.51	52.25										108.05

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF12	SOI27	#1	area	35.89	b.d.	0.21	1.84	9.52	2.41			0.18	0.39	0.13	0.32	0.21	0.70	52.61										104.41
YSF12	SOI27	#2	area	31.57	b.d.	b.d.	1.41	4.12	0.68			0.14	0.23	0.14	0.26	0.45	0.67	63.15										102.81
YSF12	SOI28	#1	point	40.66	0.27		1.58	23.20	1.84			0.48	0.32	0.18	0.23		0.36	30.23										99.37
YSF12	SOI28	#2	point	40.83	0.22		1.98	14.57	3.01			0.20	0.47	0.23	0.36		0.63	43.24										105.74
YSF12	SOI28	#3	point	31.72	b.d.	b.d.	1.14	3.21	0.26					0.17	0.32	0.21	0.42	64.80										102.25
YSF12	SOI28	#4	point	34.13	b.d.	0.14	2.15	13.59	2.38			0.22	0.34	0.18	0.37		0.48	45.38										99.37
YSF12	SOI28	#5	point	42.57	0.31	0.40	4.87	10.86	9.33			0.27	1.27	0.18	0.50		1.20	34.51										106.28
YSF12	SOI28	#6	point	30.09	b.d.		1.24	0.88	0.12					0.12	0.31	1.15	0.48	69.00										103.39
YSF12	SOI28	#7	point	33.45	0.20		1.24	7.44	0.27			0.14		0.18	0.40		0.43	61.22										104.96
YSF12	SOI28	#8	point	33.27			1.20	7.47	0.35			0.16		0.17	0.39		0.37	61.10										104.48
YSF12	SOI28	#9	point	36.83	0.15	0.14	4.74	12.42	6.67			0.27	0.36	0.21	0.28		0.53	35.19										97.80
YSF12	SOI28	#10	area	40.55	b.d.	0.22	2.13	13.92	3.97			0.19	0.64	0.36	0.46		0.76	42.79										105.99
YSF12	SOI31	#1	area	30.24														72.36										102.59
YSF12	SOI31	#2	area	31.83														73.58										105.41
YSF12	SOI31	#3	area				b.d.	b.d.	0.18									98.44										98.61
YSF12	SOI31	#4	area	31.11			0.16	0.10									0.24	74.54										106.15
YSF12	SOI31	#5	area	30.76														74.19										104.95
YSF12	SOI31	#6	area	28.57					1.34	0.33								73.08										103.32
YSF12	SOI31	#7	point	31.83			0.13	0.10	1.06									69.54										102.67
YSF12	SOI31	#8	point	29.61			0.24	0.57				0.09	0.20					69.64										100.34
YSF13	SOI5	#1	point					0.52	0.44								b.d.	94.08										95.04
YSF13	SOI5	#2	area				b.d.	0.64	1.01	0.31							0.51	88.70										91.17
YSF13	SOI5	#3	area				b.d.	0.65	1.58								0.41	91.54										94.18
YSF13	SOI5	#4	area					0.85	0.43	0.16			b.d.	b.d.			0.36	88.37										90.17
YSF13	SOI5	#5	area				0.14	0.72	1.06								0.22	92.13										94.27
YSF13	SOI5	#6	area					0.58										56.79										57.37
YSF13	SOI6	#1	area				b.d.	0.50	0.46								0.20	95.70										96.87
YSF13	SOI6	#2	area				0.15	0.55	0.48								b.d.	97.70										98.88
YSF13	SOI6	#3	area						7.51						0.24	b.d.	b.d.	87.27							0.71			95.72
YSF13	SOI6	#4	area				b.d.	0.26	7.70					b.d.	0.18	b.d.	0.27	88.55										96.95
YSF13	SOI6	#5	point					0.36	0.54								0.22	94.18										95.30

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total		
YSF13	SOI6	#6	point				b.d.	0.16	7.70						0.30	b.d.	0.26	87.42											95.85	
YSF13	SOI6	#7	point			b.d.	b.d.		15.10								0.16	85.36								0.96			101.58	
YSF13	SOI6	#8	point							37.13				b.d.			62.09	2.42								b.d.			101.65	
YSF13	SOI6	#9	point				b.d.		35.91					b.d.			60.75	1.99								b.d.			98.65	
YSF13	SOI6	#10	point				b.d.		36.56					b.d.			60.96	2.34								b.d.			99.87	
YSF13	SOI6	#11	point	1.31					35.61								60.84	2.32								b.d.			100.08	
YSF13	SOI6	#12	point	1.30			b.d.		34.38								58.02	5.00											98.70	
YSF13	SOI6	#13	point	6.64			1.36	1.77	32.40			0.17	0.21	0.37			55.30	2.55								b.d.			100.76	
YSF13	SOI6	#14	area					0.89	0.17								0.17	92.83											94.07	
YSF13	SOI6	#15	area				b.d.	0.96	0.19								0.28	91.95											93.38	
YSF13	SOI6	#16	point				b.d.	b.d.	14.87					b.d.	b.d.	b.d.	0.26	81.56								0.82			97.51	
YSF13	SOI6	#17	point				b.d.	0.11	7.77						0.13	b.d.	0.33	86.02											94.37	
YSF13	SOI6	#18	point				b.d.	0.34	3.96									93.79											98.08	
YSF13	SOI7	#1	area				b.d.	0.66	0.73	0.27							0.60	82.82											85.07	
YSF13	SOI8	#1	area					0.82	0.52	0.26							0.48	81.24											83.31	
YSF13	SOI9	#1	area		b.d.	b.d.	0.16	0.72	0.77	0.32							0.70	82.58											85.25	
YSF14	SOI1	#1	sum	0.06				1.62	0.35	0.90					0.06		0.22	68.40											71.62	
YSF14	SOI2	#1	area					2.26	0.76	0.81							0.24	92.87											96.93	
YSF14	SOI3	#1	area					2.25	0.79	0.78							0.24	94.03											98.09	
YSF14	SOI4	#1	area					2.26	0.78	0.93							0.22	93.43											97.61	
YSF14	SOI5	#1	area					3.49	0.26									94.42											98.18	
YSF14	SOI5	#2	area															91.44											91.44	
YSF14	SOI5	#3	area					1.56	6.97	0.22								88.22											96.96	
YSF14	SOI5	#4	area					3.31	0.27									94.29											97.87	
YSF14	SOI5	#5	area															92.96											92.96	
YSF14	SOI5	#6	point				b.d.			37.40				0.65	0.77	0.37	9.32	52.76											101.27	
YSF14	SOI5	#7	point					4.12	0.36									95.47											99.95	

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF14	SOI5	#8	point															91.49										91.49
YSF14	SOI5	#9	point															90.49										90.49
YSF14	SOI5	#10	point					1.11	12.30	0.22								85.83					0.37					99.83
YSF14	SOI5	#11	point	4.56				2.46	0.38									94.54					0.44					102.38
YSF14	SOI5	#12	point	4.07				2.92	0.29									88.78										96.06
YSF14	SOI5	#13	point					4.09	0.36									96.08										100.53
YSF14	SOI5	#14	point							37.33				0.82	0.78	0.43	1.84	60.26										101.47
YSF14	SOI6	#1	point															91.30										91.30
YSF14	SOI6	#2	area					2.31	0.94	0.79								92.61										96.66
YSF14	SOI6	#3	area					2.17	0.58	0.62								90.05										93.43
YSF15	SOI3	#1	area				b.d.	2.23	0.11	b.d.				0.12			0.67	81.60										84.73
YSF15	SOI4	#1	area				0.13	1.88						b.d.			0.62	72.46										75.09
YSF15	SOI4	#2	area			b.d.	0.12	1.95	b.d.	0.11	b.d.			0.09			0.61	70.51										73.39
YSF15	SOI5	#1	area					2.05									0.57	77.82										80.44
YSF15	SOI5	#2	area				b.d.	2.17	b.d.	b.d.				b.d.			0.68	77.10										79.95
YSF15	SOI6	#1	area				b.d.	2.40						b.d.			0.74	85.45										88.58
YSF15	SOI6	#2	area				b.d.	2.39		0.15							0.70	84.75										87.99
YSF15	SOI6	#3	area					2.74									0.44	94.74										97.92
YSF15	SOI6	#4	area				b.d.	2.62									0.75	94.87										98.25
YSF15	SOI6	#5	area				b.d.	2.59									0.57	96.71										99.87
YSF15	SOI6	#6	area				b.d.	2.54						0.24			0.58	88.15										91.51
YSF15	SOI7	#1	area				b.d.	2.83									0.54	97.14										100.51
YSF15	SOI7	#2	area				b.d.	2.28									0.82	96.77										99.87
YSF15	SOI7	#3	area			b.d.	0.13	1.78	0.33					b.d.			1.25	94.71										98.20
YSF15	SOI7	#4	area					2.60	0.19								0.73	96.81										100.34
YSF15	SOI7	#5	point				b.d.	0.15						65.66	3.38	b.d.	0.38	8.12						0.49				78.18
YSF15	SOI7	#6	point					0.33						57.04	2.88	b.d.	0.25	18.22						0.31				79.02
YSF15	SOI7	#7	point				0.11	0.09						65.37	3.28	b.d.	0.17	8.73						0.53				78.29
YSF15	SOI7	#8	area					2.47									0.78	95.74										98.99

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF15	SOI7	#9	area					2.51									0.87	99.15										102.54
YSF15	SOI7	#10	point		b.d.	b.d.	b.d.	0.21		0.15				61.07	3.08	b.d.	0.29	12.51										77.31
YSF15	SOI7	#11	point				b.d.	0.18		30.18							49.71	21.20										101.28
YSF16	SOI3	#1	area					2.05	0.15	b.d.				b.d.			1.01	83.53										86.74
YSF16	SOI3	#2	area			b.d.	0.14	1.97	b.d.	b.d.				0.12			0.80	78.90										81.93
YSF16	SOI4	#1	area					1.86		b.d.				b.d.			0.92	77.04										79.82
YSF16	SOI5	#1	area					2.12		0.11				b.d.			0.92	83.37										86.52
YSF16	SOI5	#2	area				b.d.	2.26	b.d.	b.d.				0.11			1.07	94.75										98.19
YSF16	SOI5	#3	area				b.d.	1.54						b.d.			0.74	64.79										67.06
YSF16	SOI5	#4	area					1.95		0.10							0.95	77.62										80.61
YSF17	SOI2	#1	area	41.79	0.36	1.42	6.71	19.65		0.96		1.41	24.57	0.40			1.33	1.86										100.46
YSF17	SOI3	#1	area	43.83	0.36	1.35	6.82	19.80	0.11	0.97		1.42	24.87	0.44	0.15		1.43	2.13										103.68
YSF17	SOI3	#2	area	42.97	0.25	1.46	6.93	20.01	b.d.	0.77		1.40	24.82	0.41	b.d.		1.48	1.78										102.27
YSF17	SOI4	#1	area	40.52	0.28	1.24	6.22	18.09	b.d.	0.71		1.24	22.25	0.35	b.d.		1.30	2.05										94.26
YSF17	SOI5	#1	area	42.42	0.32	1.38	6.56	19.15	0.08	0.68		1.33	23.91	0.38	b.d.		1.34	1.92										99.48
YSF17	SOI6	#1	point	43.45	b.d.	0.38	0.87	23.50		b.d.		0.17	32.60	0.17	b.d.		0.53	0.27										101.95
YSF17	SOI6	#2	point	40.53	0.15	0.64	5.73	21.54		0.24		1.66	25.30	0.47	b.d.	0.12	1.07	0.96										98.40
YSF17	SOI6	#3	point	43.84		0.36	0.63	23.66					33.59	0.16		0.13	0.43	0.32										103.13
YSF17	SOI6	#4	point	46.14	0.18	0.17	10.46	20.62	0.11	0.47		2.48	20.52	0.76	b.d.		1.80	0.99										104.70
YSF17	SOI6	#5	point	42.67	0.69	3.16	8.27	18.29		0.11		0.66	26.97	0.16	b.d.		1.14	0.67										102.77
YSF17	SOI6	#6	point	43.68	0.72	3.42	7.81	18.51		0.08		0.66	26.56	0.11	b.d.		0.89	0.82										103.26
YSF17	SOI6	#7	point	42.98	0.65	2.18	8.75	18.70		0.27		1.33	24.79	0.28			1.62	1.23										102.78
YSF17	SOI6	#8	point	42.92	0.62	2.31	9.28	18.53		0.21		1.21	24.87	0.29			1.32	1.16										102.72
YSF17	SOI6	#9	point	36.79	0.15	0.30	9.97	18.07	0.14	5.32		2.65	17.23	0.57	b.d.		4.64	6.80										102.62
YSF17	SOI6	#10	point	23.45	0.23	0.95	5.81	13.03	b.d.	14.17		0.79	16.89	0.19	b.d.	b.d.	9.39	17.26										102.13
YSF17	SOI6	#11	point	14.60	b.d.	0.27	2.34	10.95	b.d.	19.96		0.73	12.47	0.21	0.12	0.16	2.03	33.91										97.75
YSF17	SOI6	#12	area	43.46	0.30	0.81	9.27	20.12	b.d.	0.86		2.19	21.89	0.64	b.d.		1.86	1.76										103.17

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF17	SOI6	#13	area	44.72	0.18	0.27	9.49	21.05	0.14	0.38		2.75	20.50	0.71	b.d.		1.59	0.92										102.70
YSF17	SOI7	#1	area	43.47	0.39	1.37	6.18	18.19	0.09	0.74		1.31	22.34	0.37	b.d.		1.30	2.07										97.82
YSF17	SOI8	#1	point				0.15	0.25		36.83			0.63				3.08	58.48										99.41
YSF17	SOI8	#2	point	8.97		0.44	0.40	1.50		33.75			0.81				2.32	58.60										106.80
YSF17	SOI8	#3	point				0.13	0.11		38.66			0.62	b.d.			2.54	59.89										101.94
YSF17	SOI8	#4	point	4.54	b.d.	0.63	0.29	1.59		20.24			1.09		b.d.		2.40	58.90										89.69
YSF17	SOI8	#5	point		b.d.	b.d.	0.19	0.35	0.10	34.95			0.73	b.d.	b.d.		22.33	39.95										98.60
YSF17	SOI8	#6	point	9.41		0.32	0.31	1.16	0.12	37.12			0.95	b.d.	b.d.		2.27	54.76										106.42
YSF17	SOI8	#7	point				0.16	b.d.		13.61			0.35				0.71	84.05										98.88
YSF17	SOI8	#8	point	15.74	0.41	1.54	3.98	9.56		15.04		0.45	11.51	b.d.	0.12		2.48	34.70										95.54
YSF17	SOI9	#1	point	42.46	0.51	2.59	7.78	18.68		0.31		1.34	24.60	0.39			1.56	1.52										101.73
YSF17	SOI9	#2	point	43.21	b.d.	0.54	1.33	22.59					32.34	0.19			0.66	0.33										101.20
YSF17	SOI9	#3	point	42.96		0.35	0.60	23.27		b.d.			33.26	0.17		b.d.	0.43	0.31										101.34
YSF17	SOI9	#4	point	43.22		0.47	1.12	23.16				0.19	32.29	0.20		0.12	0.57	0.34										101.68
YSF17	SOI9	#5	point	42.64	0.54	2.15	8.01	19.85		0.29		1.67	22.65	0.47		b.d.	1.76	1.40										101.43
YSF17	SOI9	#6	point	44.54	0.16	0.55	8.89	21.43	0.15	0.26		2.47	19.61	0.86	b.d.	b.d.	1.51	0.83										101.25
YSF17	SOI9	#7	point	23.75	0.31	1.05	4.94	10.71	0.14	20.88		0.91	10.32	0.22		0.12	10.73	28.99										113.08
YSF17	SOI9	#8	point	30.79	0.66	2.90	5.65	13.43		10.58		0.40	15.84				1.22	33.19										114.64
YSF17	SOI9	#9	point	36.08	0.30	1.28	7.07	15.51	0.12	12.12		1.57	16.01	0.39	b.d.		6.85	16.52										113.81
YSF17	SOI9	#10	point	22.98	0.25	0.79	6.53	12.13	0.15	18.96		1.41	10.91	0.29	0.12		14.39	21.06										109.98
YSF17	SOI9	#11	point	43.33	0.51	2.57	7.67	18.86	b.d.	0.38		1.28	24.61	0.39			1.55	1.45										102.61
YSF17	SOI9a	#1	point							5.89			0.39	b.d.		0.26	0.48	92.84										99.87
YSF17	SOI9a	#2	point							35.10			0.43				2.36	62.09										99.98
YSF17	SOI9a	#3	point							20.52			0.46				1.19	78.16										100.33
YSF17	SOI9a	#4	point				0.14	0.20	0.09	36.58			0.56	b.d.	b.d.		2.23	59.96										99.77
YSF18	SOI3	#1	point					1.52	4.22								b.d.	92.46										98.20
YSF18	SOI3	#2	point					1.43	4.56									91.52										97.52
YSF18	SOI3	#3	point				0.15	0.30	12.09						0.20	b.d.	0.20	84.28										97.22
YSF18	SOI3	#4	point				0.18	0.34	2.36						0.32	b.d.	0.16	89.05										92.41
YSF18	SOI3	#5	point				b.d.	0.31	13.47								0.32	82.85										96.96

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF18	SOI3	#6	area					0.59	7.70						0.26		b.d.	88.00										96.54
YSF18	SOI3	#7	area					1.47	0.39									95.59										97.45
YSF18	SOI3	#8	area					1.96	0.29								0.15	93.91										96.31
YSF18	SOI3	#9	point					1.80	0.30								b.d.	94.23	0.85									97.18
YSF18	SOI3	#10	point					1.52	0.42								0.50	93.82										96.26
YSF18	SOI3	#11	point				b.d.	1.59	0.47									95.82										97.87
YSF18	SOI3	#12	area		b.d.	0.15	0.75	10.52									0.19	86.86										98.47
YSF18	SOI3	#13	point					b.d.					69.20	2.62	b.d.	0.20	2.33											74.35
YSF18	SOI3	#14	point				b.d.	b.d.	0.13	36.08				0.37	0.32		55.08	7.05										99.02
YSF18	SOI4	#1	area				b.d.	1.15	1.18	6.12				0.15			8.11	73.64										90.35
YSF18	SOI5	#1	area				b.d.	1.27	0.96	4.72				0.13			6.40	76.17										89.65
YSF18	SOI6	#1	area				b.d.	1.28	0.96	6.24				0.14		b.d.	8.21	75.20										92.02
YSF18	SOI7	#1	area				b.d.	1.09	1.14	3.43				0.10			4.64	70.90										81.30
YSF18	SOI7	#2	area				0.16	1.48	1.39	2.40				b.d.			3.07	86.74										95.24
YSF18	SOI8	#1	area				b.d.	1.25	1.17	4.97				0.13	0.11	b.d.	6.51	80.08										94.21
YSF19	SOI1	#1	area	42.10	0.34	5.48	7.69	16.97	b.d.	0.67		1.25	26.58	0.48	b.d.		0.77	b.d.										102.35
YSF19	SOI2	#1	area	41.31	0.40	5.62	7.84	16.88	b.d.	0.70		1.31	26.40	0.46	b.d.		1.00	0.15										102.07
YSF19	SOI3	#1	area	41.31	0.39	5.53	7.82	17.03	b.d.	0.62		1.17	26.90	0.43			0.91	b.d.										102.10
YSF19	SOI4	#1	area	41.68	0.29	5.69	7.67	17.33	b.d.	0.71		1.27	26.42	0.44			0.85	b.d.										102.36
YSF19	SOI5	#1	point	39.12	0.29	4.96	7.30	16.44			0.28	28.34																96.73
YSF19	SOI5	#2	point	40.52	0.58	5.16	7.23	17.02			0.32	28.29																99.13
YSF19	SOI5	#3	point	14.99	0.27	3.03	3.70	9.10		17.14	0.27	18.63					24.28											91.42
YSF19	SOI5	#4	point	42.56	0.38	5.64	7.25	17.93			0.38	30.23																104.37
YSF19	SOI5	#5	point	41.37	0.57	4.91	11.17	19.25		1.39	7.91	11.72	b.d.	1.02			0.46											99.76
YSF19	SOI5	#6	point	40.96	0.41	7.28	9.96	17.89		1.38	4.68	14.03		1.86			0.79											99.25

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total	
YSF19	SOI5	#7	point	41.58	0.34	7.22	9.85	18.04		0.97	3.89	15.71		1.61			0.59												99.79
YSF19	SOI5	#8	point	36.11	0.37	5.54	8.56	14.55		7.79	4.00	12.32		1.59			8.93								1.66				101.41
YSF19	SOI5	#9	point	37.24	0.43	5.12	10.08	16.20		2.57	12.72	7.27		2.12			2.19								2.97				98.90
YSF19	SOI5	#10	point	4.00	b.d.	1.55	1.13	1.75		36.18	0.39	7.94		0.16			50.70	1.34											105.12
YSF19	SOI5	#11	point	7.75	b.d.	2.34	2.92	4.37		29.54	3.36	6.82		0.74			41.86	0.78											100.49
YSF19	SOI5	#12	point	37.15	0.34	5.57	8.86	16.10		0.52	4.43	14.15		1.46			0.49												89.09
YSF19	SOI5	#13	point	5.67	0.11	0.73	2.18	3.61		0.30	1.38	6.22		0.40			0.14	0.20											20.94
YSF19	SOI5	#14	point	9.47	0.11	2.25	4.30	8.43	b.d.	1.07	3.65	9.58		1.13			0.70												40.70
YSF19	SOI5	#15	point	41.52	0.14	13.31	11.70	13.90			0.29	10.64		5.24			0.24	b.d.											96.98
YSF19	SOI5	#16	point			0.73	0.12	0.14		38.43		6.58		b.d.			53.91	1.11											101.01
YSF19	SOI5	#17	point	41.43	0.45	6.27	10.92	18.61		1.19	6.39	12.11		1.79			0.53												99.70
YSF19	SOI5	#18	point	40.88	0.45	5.99	9.76	18.49	b.d.	1.11	6.73	11.90		1.43	b.d.		0.73								3.49				100.96
YSF19	SOI6	#1	area	40.18	0.38	5.86	7.76	17.18	b.d.	0.74		1.37	24.90	0.45	b.d.		1.00	b.d.											99.82
YSF21	SOI2	#1	area	39.77	0.41	5.39	8.24	17.76		0.72		1.68	23.56	0.32	b.d.		0.72												98.56
YSF21	SOI3	#1	area	39.05	0.38	5.52	8.38	17.45		0.73		1.70	22.83	0.49			0.70												97.22
YSF21	SOI4	#1	area	38.78	0.36	5.46	8.02	17.31	b.d.	0.71		1.57	23.15	0.40			0.70	0.23											96.69
YSF21	SOI5	#1	point	37.19	0.46	5.03	6.69	16.07				0.28	27.37																93.08
YSF21	SOI5	#2	point	37.56	0.53	5.12	6.24	16.75		0.07		0.40	27.47				0.24												94.38
YSF21	SOI5	#3	point	37.93	0.55	5.41	5.92	17.17		b.d.		0.49	27.71																95.19
YSF21	SOI5	#4	point	38.30	0.42	5.01	6.97	16.88		b.d.		0.52	28.01																96.11
YSF21	SOI5	#5	point	39.04	0.41	5.08	7.13	17.04				0.35	28.69				0.18												97.91
YSF21	SOI5	#6	point	39.40	0.38	6.04	11.35	18.10		0.80		5.08	12.29	0.88			0.32												94.63
YSF21	SOI5	#7	point	40.06		7.29	10.51	18.73		0.66		1.69	15.44	0.89			0.58												95.84
YSF21	SOI5	#8	point	39.17	b.d.	6.73	10.90	18.34		0.69		0.71	16.40	0.89			0.63												94.46
YSF21	SOI5	#9	point	40.44		6.96	10.78	18.83		0.43		0.61	16.75	1.08			0.35												96.23
YSF21	SOI5	#10	point	39.75		8.14	10.64	17.49					15.09	2.62															93.71
YSF21	SOI5	#11	point	5.48	b.d.	1.12	1.10	1.51		26.28		0.26	5.19	15.37	0.31		33.50	8.26											98.38
YSF21	SOI5	#12	point	1.90		0.97	0.80	1.27		31.17		0.14	6.29	0.21			38.43	9.95											91.15
YSF21	SOI5	#13	point	31.18	0.29	4.74	4.59	15.03		4.65		0.42	25.74				5.09												91.72

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF22	SOI1	#1	area	43.33	0.49	5.34	8.45	16.68	b.d.	0.66		2.05	22.43	0.46	b.d.		0.96	0.26										101.10
YSF22	SOI2	#1	area	41.79	0.45	5.27	8.50	16.88	b.d.	0.65		2.03	22.12	0.34	b.d.		0.98	0.38										99.39
YSF22	SOI3	#1	area	43.62	0.55	5.50	8.85	17.62	b.d.	0.58		2.10	23.76	0.36			0.94	0.25										104.14
YSF22	SOI4	#1	area	42.79	0.45	5.66	8.83	17.35		0.60		2.18	22.66	0.43	b.d.		1.00	0.24										102.18
YSF22	SOI5	#1	area	40.82	0.41	4.55	8.09	15.46		0.15		1.49	20.79	0.45	b.d.	b.d.	1.03	0.58										93.81
YSF22	SOI5	#2	area	42.49	0.91		13.58	18.61				9.67	4.41											0.90				90.57
YSF22	SOI6	#1	area	42.00	0.45	5.39	8.61	16.88		0.63		2.21	21.25	0.44			1.03	0.61										99.50
YSF22	SOI8	#1	point	42.75	0.57	5.58	6.93	17.98				0.69	28.75				0.17											103.42
YSF22	SOI8	#2	point	42.67	0.66	5.32	7.39	17.82				0.67	28.66				0.14											103.33
YSF22	SOI8	#3	point	43.16	0.54	5.13	7.52	17.76				0.65	28.86				0.19											103.82
YSF22	SOI8	#4	point	42.79	0.52	5.56	6.91	18.04				0.58	28.90				0.20											103.50
YSF22	SOI8	#5	point	45.81	0.18	13.47	12.13	18.59		0.36		1.11	11.40	1.45			0.93	0.27										105.71
YSF22	SOI8	#6	point	43.57	0.52	10.66	11.47	18.80		0.46		6.66	6.80	1.25			1.20	0.26										101.67
YSF22	SOI8	#7	point	40.39	0.41	5.95	11.49	16.79		0.41		6.35	8.38	1.13			1.29	0.22										92.81
YSF22	SOI8	#8	area	41.77	0.49	6.64	12.18	18.08		0.40		5.67	9.23	1.32			0.93											96.72
YSF22	SOI8	#9	area	44.70	0.23	8.00	11.72	18.92		0.33		2.71	13.18	1.09			0.67											101.56
YSF22	SOI8	#10	point	8.39	0.24	1.22	2.44	3.70		29.83		0.75	4.84	0.15			44.70	5.77										102.02
YSF22	SOI8	#11	point	13.85	0.32	1.74	4.41	5.87		26.16		2.57	4.17	0.23		0.12	38.54	6.50										104.47
YSF22	SOI8	#12	point	25.39	0.44	2.99	4.66	8.53	b.d.	23.01		0.78	11.08	0.18			35.79	5.16										118.02
YSF22	SOI8	#13	point	15.11	0.29	1.97	4.82	7.30		24.82		2.11	6.79	0.23			33.97	8.34										105.74
YSF22	SOI8	#14	point	19.37	0.28	4.22	5.24	8.27		22.35		1.39	8.51	0.48			32.34	6.38										108.82
YSF22	SOI8	#15	point	12.02	0.25	2.66	4.21	8.72		17.91		0.34	15.82				26.92	3.64										92.50
YSF22	SOI8	#16	point	15.60	0.21	2.07	2.55	4.72		28.39		0.17	7.54	b.d.			42.19	6.27										109.71
YSF22	SOI8	#17	point	16.56	0.27	2.35	3.79	6.52		25.01		0.88	7.83	0.14			37.10	7.63										108.08
YSF22	SOI8	#18	point	3.49		1.64	1.84	4.00		29.24		0.91	4.25	0.25			36.62	9.91										92.16
YSF22	SOI8	#19	point	27.28	0.31	3.81	5.44	11.72		12.44		0.56	19.25				18.59	2.57										101.97
YSF23	SOI1	#1	area	41.47	0.40	5.83	8.37	17.62		0.64		1.79	19.78	0.36			1.00	0.49										97.74

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF23	SOI2	#1	area	44.67		8.79	11.01	18.48		0.60		2.86	11.63	1.00			1.05	0.58										100.69
YSF23	SOI2	#2	point	41.44	0.57	4.92	7.62	17.45		0.32		0.86	25.84	0.19			0.54	0.25										100.00
YSF23	SOI2	#3	point	41.31	0.59	4.87	7.55	17.51		0.28		0.80	25.89	0.28			0.50	0.22										99.79
YSF23	SOI2	#4	point	24.98	0.35	4.37	5.89	11.91		17.04		0.98	12.83	0.21			20.73	10.12										109.41
YSF23	SOI2	#5	point	38.55	0.50	5.14	7.44	15.02		7.85		1.36	17.85	0.30			10.82	5.16										109.98
YSF23	SOI2	#6	point	21.67	b.d.	5.38	6.17	10.98		16.46		1.47	9.02	0.31			15.91	15.58										102.94
YSF23	SOI3	#1	area	42.98	0.38	5.92	8.64	18.06		0.61		1.91	20.24	0.49			1.05	0.50										100.76
YSF23	SOI4	#1	area	43.74	0.41	6.10	8.79	18.02		0.65		1.91	20.14	0.50			1.08	0.51										101.86
YSF23	SOI5	#1	area	42.72	0.41	5.98	8.64	17.75		0.57		1.86	20.15	0.41			0.94	0.53										99.96
YSF23	SOI6	#1	area	41.58	0.30	5.81	8.25	17.30		0.57		1.80	19.46	0.46			1.01	0.50										97.04
YSF23	SOI7	#1	point	3.27		0.76	0.92	1.34		2.42		0.11	1.34				2.38	83.54										96.08
YSF23	SOI7	#2	point	10.97		2.00	3.12	4.62	b.d.	28.39		0.81	3.37	0.10			32.51	15.08										100.98
YSF23	SOI7	#3	point	6.43		1.04	1.86	2.86		29.05		0.68	2.70	b.d.			34.00	14.78										93.40
YSF23	SOI7	#4	point				0.19	0.21		0.12		b.d.	0.74				0.28	91.45										92.99
YSF23	SOI7	#5	point	41.12	0.53	4.80	7.11	17.11				0.64	26.74				0.13											98.18
YSF23	SOI7	#6	area	45.73	0.19	6.81	10.60	18.25		0.63		2.79	14.39	0.70			1.42	0.62										102.15
YSF23	SOI7	#7	area	44.14	0.18	8.44	11.89	18.55		0.23		2.50	11.67	1.07			0.71	0.29										99.67
YSF24	SOI2	#1	area					1.08	0.79	0.25							0.96	83.65										86.73
YSF24	SOI3	#1	area					1.09	0.92	0.24							0.89	83.94										87.08
YSF24	SOI6	#1	area					1.07	0.74	0.20							0.80	84.32										87.14
YSF24	SOI7	#1	area					1.09	0.80	0.31							0.67	84.28										87.15
YSF24	SOI8	#1	area					1.10	0.85	0.16							0.56	85.95										88.61
YSF24	SOI8	#2	area				b.d.	1.15	1.69								0.47	93.47										96.78
YSF24	SOI8	#3	point				b.d.	0.16	0.18	31.69				0.20			52.23	14.19										98.65
YSF24	SOI8	#4	point	1.74			b.d.	0.07										11.75										13.56

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF24	SOI8	#5	point							33.96							59.14	2.17										95.27
YSF24	SOI8	#6	point							35.99							60.43	2.48										98.90
YSF25	SOI1	#1	area	32.04	0.24	0.23	2.03	10.05	3.25	0.17		0.33	0.71	0.18	b.d.		2.53	49.07										100.83
YSF25	SOI1	#2	point	20.29			0.36	0.25						0.43	0.42		0.39	65.45										87.59
YSF25	SOI1	#3	point	24.44			0.44	0.25						0.47	0.28		0.58	79.17										105.64
YSF25	SOI1	#4	point	31.81		0.43	0.40	12.39	1.42								3.05	51.10										100.60
YSF25	SOI1	#5	point	30.65		0.50	0.30	11.97	1.26				0.13				2.77	48.54										96.12
YSF25	SOI1	#6	point	28.92		0.23	0.28	12.01	0.73				0.09				2.61	48.57										93.44
YSF25	SOI1	#7	point	29.46		0.42	0.40	11.82	1.24								2.73	48.57										94.63
YSF25	SOI1	#8	point	32.75		0.39	0.40	13.14	1.09								2.84	52.94										103.55
YSF25	SOI2	#1	point	8.92		0.14			0.23	29.13			0.12					63.60			0.86							102.99
YSF25	SOI2	#2	point	26.83			0.55	1.60	3.83			0.16	0.18	0.89			0.86	65.76										100.66
YSF25	SOI2	#3	point	36.17			b.d.	0.22	17.23			0.14	9.43				3.07	31.97										98.22
YSF25	SOI2	#4	point	26.26			0.56	1.78	2.98				0.11	0.89			0.87	66.77										100.23
YSF25	SOI2	#5	point	29.33			20.31	0.30						1.79			0.72	42.88										95.33
YSF25	SOI2	#6	point	32.72			21.69	0.21	0.12					1.05	0.29		0.87	42.74										99.69
YSF25	SOI2	#7	point	29.85			16.39	0.33						1.74	1.15		0.89	47.70										98.04
YSF25	SOI2	#8	point	29.09			13.37	1.09						2.08	1.46		0.96	50.73										98.78
YSF25	SOI2	#9	point	30.60			16.62	0.40						1.85	0.97		0.89	48.48										99.82
YSF25	SOI2	#10	area	34.47	0.82	b.d.	0.26	0.49	15.63	0.74		2.45	4.89	b.d.			2.79	36.23										98.77
YSF25	SOI2	#11	point	34.53		b.d.	b.d.	0.27	16.87			0.11	9.47				3.16	31.23										95.62
YSF25	SOI2	#12	point	31.80		b.d.	0.27	9.00	5.72				0.10				2.18	48.24										97.32
YSF25	SOI2	#13	point	30.35		0.13	0.27	12.49	1.06				0.13				2.11	51.03										97.56
YSF25	SOI2	#14	point	29.93	b.d.	0.43	0.44	12.46	0.93				b.d.	b.d.			2.67	50.54										97.42
YSF25	SOI2	#15	point	30.13		0.40	0.42	12.18	1.27				0.12	b.d.			2.81	50.09										97.41
YSF25	SOI3	#1	area	31.09	0.20	0.26	2.42	8.11	3.15	0.15		0.42	0.65	0.32	0.51	0.24	2.14	51.31										100.96
YSF25	SOI4	#1	point	22.74			0.50	0.27						0.36	0.34		0.56	73.36										98.12
YSF25	SOI4	#2	point	22.71			0.45	0.25						0.38	0.33		0.53	72.74										97.40
YSF25	SOI4	#3	point	22.01	b.d.		0.57	0.23	0.09					0.43	0.58		0.64	71.43										95.98
YSF25	SOI4	#4	point	22.93			7.72							0.90	6.45	9.60	1.02	44.13										92.75
YSF25	SOI4	#5	point	22.23		b.d.	7.74	0.14						1.12	6.29	6.64	0.90	45.67										90.72

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF25	SOI4	#6	point	31.42			15.55	0.74					b.d.	2.01	0.71		0.74	48.16										99.35
YSF25	SOI4	#7	point	32.68			20.29	0.24						1.15	0.47		0.84	42.79										98.47
YSF25	SOI4	#8	point	31.39	b.d.	0.24	0.41	12.54	1.08				b.d.				2.69	51.08										99.43
YSF25	SOI4	#9	point	33.43	0.23	0.14	0.14	6.32	9.00				0.23				2.80	47.57										99.85
YSF25	SOI4	#10	point	35.91		0.11	b.d.	0.19	16.90				10.44				3.22	29.67										96.44
YSF25	SOI4	#11	point	39.06			0.09	0.10	17.82		b.d.	0.09	10.13				3.40	31.12										101.81
YSF25	SOI4	#12	point	7.58			0.12	0.17	2.86	27.19		0.94	0.88				0.78	51.43										91.96
YSF25	SOI4	#13	point	13.97	b.d.	b.d.	b.d.	0.22	7.13	20.82		1.24	2.45				1.51	46.90										94.25
YSF25	SOI4	#14	area	33.67	0.83	b.d.	0.26	0.53	15.41	0.85		2.38	4.96	b.d.			2.81	34.87										96.58
YSF25	SOI4	#15	point	26.03			0.46	1.49	2.74				b.d.	0.39	0.24		0.85	67.83										100.04
YSF25	SOI4	#16	point	27.70		b.d.	0.79	2.13	3.02			0.11	0.34	0.89	b.d.		0.77	65.01										100.76
YSF25	SOI4	#17	point	31.39			19.24	0.57	0.59			0.29	0.16	1.23	0.37		0.87	42.98										97.70
YSF25	SOI4	#18	point	30.41			16.83	0.69	0.09					1.65	0.80		0.80	45.65										96.92
YSF25	SOI4	#19	point	31.19		0.19	0.37	12.31	1.19				b.d.				2.43	51.07										98.76
YSF25	SOI5	#1	area	29.98	b.d.	0.20	2.19	8.22	3.25			0.33	0.71	0.29	0.30	0.17	2.24	48.41										96.29
YSF25	SOI6	#1	area	33.61	b.d.	0.24	2.25	9.57	3.72	0.21		0.41	0.71	0.28	0.21	0.18	2.60	54.41										108.40
YSF25	SOI8	#1	area	32.60	b.d.	0.33	1.98	10.36	3.26	0.22		0.35	0.63	0.17	0.14		2.67	50.53										103.23
YSF25	SOI10	#1	area	29.65	0.20	0.25	2.01	8.45	3.06	0.13		0.34	0.64	0.24	0.32	b.d.	2.26	48.00										95.56
YSF25	SOI10	#2	area	28.70		0.20	2.06	8.53	3.18	0.16		0.32	0.66	0.23	b.d.		2.37	43.97										90.38
YSF25	SOI10	#3	area	32.06	0.24	0.24	2.23	8.96	3.44	0.20		0.36	0.66	0.27	0.35	0.19	2.42	53.38										105.01
YSF25	SOI11	#1	area	30.23	0.24	0.24	2.28	8.13	3.28	0.12		0.31	0.65	0.29	0.41	0.20	2.12	48.05										96.55
YSF27	SOI1	#1	area	30.61		0.22	2.39	9.43	2.14			0.16	0.34	0.23	0.35		2.25	48.26										96.38
YSF27	SOI1	#2	area	32.54	0.28	0.18	2.49	9.92	2.48			0.22	0.44	0.25	0.32	0.18	2.45	52.66										104.41
YSF27	SOI2	#1	area	31.42	0.21	0.19	2.30	9.27	2.82	0.09		0.29	0.61	0.30	0.44	0.24	2.46	50.69										101.34
YSF27	SOI3	#1	area	33.08	b.d.	0.29	2.60	9.01	3.34	0.08		0.41	0.63	0.44	0.39	0.29	2.46	50.29										103.32
YSF27	SOI4	#1	area	32.72	b.d.	0.32	2.43	9.90	2.21	b.d.		0.19	0.42	0.27	0.43	0.20	2.48	52.40										103.96

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF27	SOI5	#1	area	33.00	b.d.	0.18	2.46	9.20	3.27	0.13		0.29	0.74	0.32	0.43	0.20	2.37	50.99										103.58
YSF27	SOI6	#1	area	32.94	b.d.	0.25	2.67	9.12	2.99			0.33	0.59	0.28	0.47		2.45	51.35										103.45
YSF27	SOI7	#1	area	32.95	b.d.	0.20	2.41	8.66	3.95	0.14		0.46	0.82	0.25	0.31		2.53	50.17										102.84
YSF27	SOI8	#1	area	32.95	0.23	0.18	2.12	9.12	3.54	0.09		0.44	0.75	0.23	0.36	b.d.	2.47	51.11										103.59
YSF27	SOI9	#1	area	32.30	0.31	0.25	1.74	8.47	3.80	0.17		0.45	0.88	0.23	0.24	b.d.	2.44	48.49										99.76
YSF27	SOI10	#1	point	23.85			0.43	0.25						0.40			0.43	72.74										98.11
YSF27	SOI10	#2	point	27.46			1.40	3.28	1.82				0.22	1.16			0.90	62.09										98.33
YSF27	SOI10	#3	point	8.28			0.62	0.29	1.36	31.50		0.38	0.44	b.d.			0.28	60.04			1.07							104.26
YSF27	SOI10	#4	point	32.31	b.d.	b.d.	14.52	1.31	0.22					2.68			0.66	48.37										100.07
YSF27	SOI10	#5	point	33.23			21.20	0.21						1.13	0.38		0.85	41.74										98.74
YSF27	SOI10	#6	point	35.20			0.30	7.56	8.28				0.17				2.58	49.58										103.68
YSF27	SOI10	#7	point	34.21	b.d.		0.31	8.85	6.22				0.11				2.63	49.16										101.49
YSF27	SOI10	#8	point	35.91	0.22		0.22	5.11	11.17				0.28				2.34	47.69										102.95
YSF27	SOI10	#9	point	33.54			b.d.	6.19	8.76				0.22				2.37	45.11										96.20
YSF27	SOI10	#10	point	37.06	1.26	b.d.	b.d.	0.95	16.30			4.23	5.02	b.d.			3.14	33.37										101.33
YSF27	SOI10	#11	point	37.63	1.16		0.12	1.23	16.35			4.39	5.50	b.d.			2.92	33.46										102.76
YSF27	SOI10	#12	point	34.42	b.d.		0.26	3.72	12.38				0.47				2.19	46.26										99.70
YSF27	SOI10	#13	point	35.11	0.30		0.19	4.84	11.05				0.35				2.10	46.85										100.81
YSF27	SOI10	#14	point	28.77			1.26	2.89	2.02			0.10	0.10	1.19			0.80	63.71										100.83
YSF27	SOI10	#15	point	34.21	0.22		0.22	6.32	8.95				0.23				2.49	46.72										99.35
YSF27	SOI10	#16	point	35.21	1.02		0.11	1.08	15.28			4.25	4.94				2.88	31.61										96.37
YSF27	SOI10	#17	point	34.92	1.22		b.d.	0.92	15.29	0.14		3.69	4.66	b.d.			2.59	32.44										95.86
YSF27	SOI10	#18	point	34.25			0.24	6.29	9.12				0.30				2.22	47.93										100.34
YSF27	SOI10	#19	point	34.09			0.26	7.58	7.76				0.14				2.70	48.71										101.24
YSF27	SOI10	#20	point	35.18	0.27	b.d.	0.20	4.44	11.62				0.36				2.19	46.87										101.11
YSF27	SOI10	#21	point	33.76			0.36	3.83	11.48				0.38				2.08	45.23										97.11
YSF27	SOI10	#22	point	35.93	0.27		0.20	4.20	12.44			0.16	0.38				2.34	47.29										103.21
YSF27	SOI10	#23	point	35.85			0.12	5.69	10.33			b.d.	0.32				2.59	47.64										102.54
YSF27	SOI10	#24	point	31.10			13.45	1.18	0.16					3.03			0.63	48.33										97.89
YSF27	SOI10	#25	point	32.40	0.27	b.d.	0.68	3.50	12.30	0.21		0.15	2.83				2.13	42.76										97.24

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF27	SOI10	#26	point	31.71	0.37	0.11	0.30	0.27	12.84	0.30	0.19	0.42	3.71	b.d.			1.87	33.61										85.70
YSF27	SOI10	#27	point	43.01	0.80	b.d.	0.36	0.58	16.24			0.28	26.88				0.71	10.27										99.13
YSF27	SOI10	#28	point	42.43	1.10		0.15	0.16	18.37			0.27	30.68				0.50	8.01										101.66
YSF27	SOI10	#29	point	37.65	0.25	b.d.	0.31		16.97			0.28	12.37				2.17	26.84										96.83
YSF27	SOI10	#30	point	37.53	0.29		0.46	0.32	15.80	0.53		0.29	10.27				2.27	29.40										97.16
YSF27	SOI10	#31	point	35.79	b.d.	b.d.	0.25	7.48	8.44			b.d.	0.20				2.68	49.45										104.29
YSF27	SOI10	#32	point	35.32	b.d.	b.d.	0.23	7.53	8.15				0.15				2.53	49.71										103.63
YSF27	SOI10	#33	point	5.94	0.20		0.17	1.02	2.17	0.06	0.37	0.92	2.20				1.39	18.89										33.34
YSF27	SOI10	#34	point	5.88	0.17	b.d.	0.09	0.47	2.96	0.08		0.55	1.31	b.d.			0.37	5.58										17.46
YSF27	SOI10	#35	point	5.32	b.d.	0.08	0.23	1.15	1.80	0.08	0.14	0.60	1.04	b.d.	b.d.		0.72	11.59										22.75
YSF27	SOI11	#1	point	33.31		0.69	0.33	13.23	0.93								3.31	52.12										103.92
YSF27	SOI11	#2	point	33.70		0.70	0.29	13.62	0.59				0.09				3.10	51.98										104.07
YSF27	SOI11	#3	point	30.60		0.43	0.28	12.67	0.54								3.06	52.79										100.38
YSF27	SOI11	#4	point	33.44	b.d.	b.d.	0.27	13.12	0.98								2.95	53.24										104.00
YSF27	SOI11	#5	point	34.83			0.36	10.39	4.82				0.14				2.54	52.38										105.46
YSF27	SOI11	#6	point	37.17	0.78		0.74	3.61	11.93			0.82	2.42				1.86	43.15										102.46
YSF27	SOI11	#7	point	29.01	b.d.	b.d.	0.33	11.13	1.02								2.36	46.34										90.19
YSF27	SOI11	#8	point	31.25			0.28	8.74	5.11				0.15				2.36	47.14										95.04
YSF27	SOI11	#9	point	29.51		b.d.	0.33	11.45	1.25				0.09	b.d.			2.45	47.33										92.41
YSF27	SOI11	#10	point	33.25		b.d.	0.26	7.90	7.01				0.14				2.48	48.11										99.14
YSF27	SOI11	#11	point	33.17	b.d.	b.d.	0.24	8.02	6.96				0.14				2.62	47.84										98.98
YSF27	SOI11	#12	point	31.93		b.d.	0.28	11.93	1.70				0.12				2.57	49.89										98.42
YSF27	SOI11	#13	point	30.82	b.d.	b.d.	0.26	11.96	0.97				0.16				2.48	48.81										95.46
YSF27	SOI11	#14	point	31.87	b.d.	0.21	0.27	12.38	1.35				b.d.				2.81	50.72										99.61
YSF27	SOI11	#15	point	33.77	b.d.	b.d.	0.36	10.49	3.91				0.12				2.48	51.64										102.77
YSF27	SOI11	#16	point	29.87	b.d.	b.d.	0.25	7.64	5.71				0.10				2.31	44.01										89.90
YSF27	SOI11	#17	point	30.13			0.29	9.68	3.26				b.d.				2.30	46.34										91.99
YSF27	SOI11	#18	point	30.79			0.27	8.08	5.50				0.15				2.23	46.08										93.11
YSF27	SOI12	#1	area	33.38	b.d.	0.16	2.68	10.14	2.67			0.18	0.55	0.29	0.55	0.31	2.40	51.03										104.33
YSF27	SOI12	#2	area	34.54	0.39	b.d.	0.66	3.97	12.69		0.11	1.05	4.36				3.76	28.32										89.84
YSF27	SOI12	#3	area	32.04	0.93		0.45	1.41	10.50			1.72	4.32	b.d.			3.63	33.36										88.36
YSF27	SOI12	#4	point	36.92	1.25	0.21	0.29	0.22	17.38			2.74	7.12				6.70	21.76										94.59
YSF27	SOI12	#5	point	36.72			0.78	15.45	1.01			1.11		b.d.			0.30	44.83										100.20

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF27	SOI12	#6	point	32.40		0.39	0.38	12.91	1.01								2.78	51.08										100.95
YSF27	SOI13	#1	point	33.49		0.32	0.31	12.69	1.70				0.12				2.88	51.33										102.85
YSF27	SOI13	#2	point	37.30	b.d.	b.d.	0.28	15.05	1.26			0.38	0.13				1.37	46.38										102.15
YSF27	SOI13	#3	point	37.00			0.75	15.55	1.19			0.81					0.40	45.95										101.66
YSF27	SOI13	#4	point	36.65			1.47	14.31	2.68			1.92		0.18			0.44	42.94										100.59
YSF27	SOI13	#5	point	38.00	b.d.	0.17	b.d.		17.65				8.70				7.22	28.10										99.83
YSF27	SOI13	#6	point	39.57	2.00	0.27	0.37	0.27	18.44			2.19	6.62				4.64	26.05										100.44
YSF27	SOI13	#7	point	32.26	b.d.		0.30	2.47	1.57			0.70	0.64	0.66			0.52	58.26										97.40
YSF27	SOI13	#8	point	32.52			16.03	1.31				0.16		0.71	0.51		1.08	48.06										100.40
YSF27	SOI13	#9	point	37.72			1.74	16.53	0.56			0.34	0.14	0.19			0.89	44.41										102.52
YSF27	SOI13	#10	point	33.76			0.57	2.98	0.97			0.37	0.14				0.37	66.32										105.47
YSF27	SOI13	#11	point	34.90			19.82	0.46						1.81	0.61		0.88	43.24										101.71
YSF27	SOI13	#12	point	33.29			0.56	b.d.	0.17			b.d.	0.10	0.43			0.17	67.24										101.97
YSF27	SOI13	#13	point	30.62			0.13		0.09	b.d.			0.10	b.d.			0.28	67.63										98.85
YSF27	SOI13	#14	point	33.31		0.40	0.31	12.87	1.24								4.66	49.40										102.19
YSF27	SOI13	#15	point	37.11		0.21	0.33	15.15	1.06			0.20	0.13				2.14	46.28										102.61
YSF27	SOI16	#1	point	32.24		0.26	0.42	12.33	1.76								2.98	51.10										101.08
YSF27	SOI16	#2	point	38.31			0.88	14.08	1.06			1.22	0.20				0.34	45.80										101.89
YSF27	SOI16	#3	point	38.22	1.74	0.25	0.46	0.39	18.09			2.38	5.97				5.50	26.18										99.19
YSF27	SOI16	#4	point	36.59		0.17	0.30	15.01	1.46			0.30	0.60				1.76	45.72										101.91
YSF29	SOI2	#1	area	29.93	b.d.	0.19	1.56	8.55	2.28	0.12		0.12	0.29	0.16	0.18		1.67	51.13										96.18
YSF29	SOI2	#2	area	30.72	0.22	0.24	0.97	10.23	2.49	0.09		0.14	0.31	b.d.			1.76	48.18										95.36
YSF29	SOI2	#3	area	26.12	b.d.	0.13	1.15	5.64	2.31	0.17			0.33	0.23	0.24	b.d.	1.33	50.94										88.58
YSF29	SOI3	#1	point	25.13			0.41	1.32	2.64					0.49	0.37		0.73	66.62										97.72
YSF29	SOI3	#2	point	21.48			0.28	0.21						0.25	0.30	0.14	0.49	72.98										96.15
YSF29	SOI3	#3	point	34.32	1.05	b.d.	b.d.	0.78	16.16			4.39	3.72				3.29	33.58										97.30
YSF29	SOI3	#4	point	31.95			22.67	0.30	0.42			0.09	0.12	1.09	1.18	0.42	0.82	39.29										98.35
YSF29	SOI3	#5	point	27.20			13.40	0.54	0.15				0.12	3.94	1.86	0.67	0.64	45.71										94.23
YSF29	SOI3	#6	point	24.67		b.d.	3.56	0.37	1.69	0.88			0.15	2.33	0.94	0.27	0.71	58.16										93.74
YSF29	SOI3	#7	point	24.56		b.d.	7.66	0.78	1.01	0.15			0.16	3.94	1.23	0.33	0.62	55.01										95.45
YSF29	SOI3	#8	point	30.38		b.d.	0.24	12.04	1.20								2.12	51.63										97.62

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF29	SOI3	#9	point	30.74		0.39	0.32	12.07	1.60								2.12	51.34										98.59
YSF29	SOI3	#10	point	30.92		0.50	0.34	12.40	1.24								2.29	51.62										99.30
YSF29	SOI3	#11	point	22.12									0.18					70.15										92.46
YSF29	SOI3	#12	point	23.77		b.d.	0.13	b.d.					0.16					76.23										100.29
YSF29	SOI3	#13	point	24.96			16.48	0.49	0.42				0.14	1.59	2.11	1.09	0.56	41.09										88.93
YSF29	SOI3	#14	point	32.23	b.d.	b.d.	0.35	0.82	9.51			0.14	3.19	0.58	0.23		1.70	52.44										101.19
YSF29	SOI3	#15	point	7.99	0.16	0.07	b.d.	0.39	4.66	0.17		1.17	3.35	0.25			2.23	37.45										57.90
YSF29	SOI3	#16	point	28.48			0.49	1.02	4.93				1.04	0.52	0.27		0.90	61.23										98.89
YSF29	SOI3	#17	point	35.05	1.42			0.68	16.12			3.14	3.15				2.97	34.97							0.61			98.10
YSF29	SOI3	#18	point	34.59	1.65	b.d.	b.d.	0.55	15.78			3.23	2.63				2.90	34.77							0.52			96.62
YSF29	SOI3	#19	point	8.02			0.08	0.70	5.33	0.12	0.12	0.15	4.19				2.20	29.83										50.74
YSF29	SOI3	#20	point	33.18	0.28	0.11	0.39	1.47	9.25	0.92		0.71	2.00				1.62	35.07										85.01
YSF29	SOI3	#21	point	32.39	0.19	b.d.	0.19	3.64	11.40				0.15				2.49	44.98										95.42
YSF29	SOI3	#22	point	18.52			6.37	1.59	1.22	0.18		0.16		1.39	8.58	5.37	0.75	38.41										82.55
YSF29	SOI3	#23	point	30.65		b.d.	0.30	10.55	2.84								1.93	50.23										96.51
YSF29	SOI3	#24	point	30.56		b.d.	0.35	11.69	1.34								1.94	50.50										96.38
YSF29	SOI5	#1	area	30.25			1.64	6.84	3.01	0.15		0.23	0.50	0.28	0.23		1.56	55.12										99.80
YSF29	SOI6	#1	point	37.32		b.d.		0.17	17.46			0.12	10.78				3.14	30.03										99.02
YSF29	SOI6	#2	point	34.26	b.d.	b.d.	0.11	3.14	12.95				0.22				2.22	45.65										98.55
YSF29	SOI6	#3	point	36.33			0.12		16.51			0.08	11.28				2.84	29.37										96.52
YSF29	SOI6	#4	point	35.47	0.18		0.13	3.22	12.77				0.87				2.29	44.84										99.77
YSF29	SOI6	#5	point	25.28			0.47	1.18	2.87				0.09	0.41	0.35		0.71	65.91										97.26
YSF29	SOI6	#6	point	22.07			0.24	0.22						0.18	0.35		0.46	73.48										97.01
YSF29	SOI6	#7	point	35.98	1.13	0.11	0.10	0.68	16.14			3.74	4.07	b.d.			2.89	34.49										99.33
YSF29	SOI6	#8	point	37.28	0.86	b.d.		0.43	16.69			2.51	5.95				3.07	33.12										99.91
YSF29	SOI6	#9	point	25.62		b.d.	0.52	1.57	2.61					0.65			0.55	66.64										98.16
YSF29	SOI6	#10	point	25.30		b.d.	0.44	1.37	2.78				0.16	0.38	0.23		0.47	66.29										97.40
YSF29	SOI6	#11	point	31.02		0.22	0.45	11.47	1.59								1.91	49.29										95.94
YSF29	SOI6	#12	point	31.29		0.19	0.40	11.13	2.17								2.15	49.22										96.55
YSF29	SOI6	#13	point	31.83			0.29	10.73	3.02				0.17				2.02	50.07										98.12
YSF29	SOI6	#14	point	35.75	1.08	b.d.	b.d.	0.90	16.56			4.43	3.79	b.d.			3.16	35.23										100.90
YSF29	SOI6	#15	point	39.07				0.57	17.07			0.18	9.41				2.90	30.59										99.80

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF29	SOI7	#1	area	29.93	0.22	0.17	1.74	7.60	2.24	0.14		0.13	0.38	0.27	0.29	b.d.	1.56	53.17										97.84
YSF29	SOI8	#1	area	30.19	b.d.	0.23	1.72	7.94	2.77	0.20		0.10	0.54	0.18	0.23		1.75	53.10										98.96
YSF29	SOI8	#2	area	32.75	b.d.	0.24	1.91	9.88	3.82	0.26		0.32	0.69	b.d.			1.99	49.26										101.13
YSF29	SOI9	#1	area	29.04	b.d.	0.15	1.51	6.96	2.99	0.37		0.22	0.60	0.20	0.31	0.16	1.67	54.86										99.05
YSF29	SOI10	#1	point	34.34	1.18	b.d.	b.d.	0.68	15.79			4.58	4.12				2.91	33.00										96.58
YSF29	SOI10	#2	point	33.20	0.24	b.d.	0.16	5.66	9.83			0.58	0.59				1.97	46.28										98.51
YSF29	SOI10	#3	point	10.25			b.d.	0.42	3.24	28.94		0.85	0.72				0.54	55.28										100.25
YSF29	SOI10	#4	point						0.17	36.65								62.64										99.46
YSF29	SOI10	#5	point						0.34	35.80								61.97										98.11
YSF29	SOI10	#6	point	4.04			b.d.	0.09	0.15	33.06								60.23										97.57
YSF29	SOI10	#7	point				0.11		0.20	35.43			0.16					61.32										97.22
YSF29	SOI10	#8	point						0.20	35.25								61.15										96.60
YSF29	SOI10	#9	point	24.48			0.41	1.43	2.58					0.23	0.31		0.63	65.07										95.13
YSF29	SOI10	#10	point	19.57			0.31	0.58	0.42	4.31				0.20	0.38		0.62	69.78										96.17
YSF29	SOI10	#11	point	21.94			0.27	0.23						0.30	0.33	0.20	0.38	73.67										97.31
YSF29	SOI10	#12	point	23.14			0.57	1.18	1.30	0.47				0.37	0.37	0.17	0.62	68.24										96.44
YSF29	SOI10	#13	point	25.33			0.44	1.39	2.75	0.26				0.45	0.28		0.79	66.29										97.98
YSF29	SOI10	#14	point	6.88			0.16	0.32	0.46	0.87				0.22	0.31		0.62	60.39										70.21
YSF29	SOI10	#15	point	34.71	1.27	b.d.	b.d.	0.78	15.94			4.51	3.92	b.d.			2.88	33.07										97.09
YSF29	SOI10	#16	point	30.39			22.08	0.34						1.12	1.49	0.65	0.73	39.67										96.46
YSF29	SOI10	#17	point	29.46			19.57	0.67						1.70	1.75	0.77	0.71	41.01										95.63
YSF29	SOI10	#18	point	31.83		b.d.	0.30	10.25	3.99			0.09	0.13				2.26	50.29										99.15
YSF29	SOI10	#19	point	31.46		0.14	0.26	12.25	1.62								1.96	52.05										99.74
YSF29	SOI10	#20	point	30.74		0.15	0.20	11.01	2.89								2.06	50.72										97.77
YSF29	SOI10	#21	point	30.82		0.18	0.23	11.70	1.91								2.01	50.81										97.66
YSF29	SOI10	#22	point	33.12	0.44	b.d.	0.11	4.93	11.31			1.06	0.97				2.14	44.48										98.56
YSF29	SOI10	#23	point			b.d.	b.d.	b.d.	0.47	33.89		0.15						61.00										95.51
YSF29	SOI10	#24	point				b.d.	b.d.	0.26	34.03								62.27										96.56
YSF30	SOI1	#1	Sum	29.76	0.45		0.47	1.36	9.46	6.94		0.91	2.20	0.05			2.05	46.26			0.11							100.00
YSF30	SOI2	#1	area	32.12			0.60	7.95	4.27	1.83		0.15	0.55	0.23			2.15	56.39										106.24

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF30	SOI2	#2	point	33.42	b.d.		0.23	7.13	8.89				0.11				2.97	50.53										103.29
YSF30	SOI2	#3	point	30.93		b.d.	0.28	9.96	4.39				0.11				2.38	50.52										98.57
YSF30	SOI2	#4	point	31.79			0.23	13.74	0.77								2.58	54.59										103.70
YSF30	SOI2	#5	point	33.59			0.26	9.47	6.33				0.12				2.73	52.67										105.17
YSF30	SOI2	#6	point	34.39			0.29	11.51	4.30				0.11				2.45	54.60										107.64
YSF30	SOI2	#7	point	34.39		b.d.	0.23	14.43	0.73								2.59	57.98										110.34
YSF30	SOI5	#1	point	30.84			0.28	13.23	0.69								2.48	52.40										99.93
YSF30	SOI5	#2	point	30.58			0.34	13.01	0.69								2.21	52.53										99.36
YSF30	SOI5	#3	point	30.37			0.19	13.01	1.01								2.36	53.18										100.12
YSF30	SOI5	#4	point	31.19			0.30	12.73	1.21								2.32	52.51										100.26
YSF30	SOI5	#5	point	31.03			0.29	10.51	3.91				0.09				2.54	51.22										99.60
YSF30	SOI5	#6	point	32.10			0.38	8.75	6.28				b.d.				2.46	50.48										100.45
YSF30	SOI5	#7	point	32.77			0.22	5.48	10.23				0.12				2.79	47.41										99.02
YSF30	SOI5	#8	point	29.42			12.99	0.80						3.15	0.23		0.65	48.27										95.53
YSF30	SOI5	#9	point	31.21			0.17	5.45	9.52				0.13				2.66	45.69										94.83
YSF30	SOI5	#10	point	23.15			0.55	1.48	2.54					0.24			0.73	65.82										94.51
YSF30	SOI5	#11	point	25.79			1.93	3.70	0.74					1.28	0.32		0.78	61.88										96.42
YSF30	SOI5	#12	point	36.09			b.d.	0.65	17.27				6.64				3.85	36.04										100.55
YSF30	SOI5	#13	point	33.82			0.11	4.55	12.15				0.18				2.90	47.76										101.46
YSF30	SOI5	#14	point	21.08			2.72	0.17						2.93	5.50	7.02	0.80	53.63										93.84
YSF30	SOI5	#15	point	21.72			0.29	0.24						0.47	0.76	0.31	0.72	75.28										99.80
YSF30	SOI5	#16	point	26.59			7.32	0.59						5.21	1.51		0.63	54.12										95.97
YSF30	SOI5	#17	point	20.89			0.44	0.34						0.48	0.42		0.71	72.45										95.72
YSF30	SOI5	#18	point	26.06			0.68	1.92	2.25					0.43			0.90	70.66										102.90
YSF30	SOI5	#19	point	28.34			7.61	0.38						5.53	1.69		0.71	58.57										102.83
YSF30	SOI6	#1	point	26.38		b.d.	0.81	1.46	2.87	0.90				0.18			0.67	68.38										101.65
YSF30	SOI6	#2	point	25.38			1.60	2.62	1.69					0.43			0.73	65.58										98.04
YSF30	SOI6	#3	point	24.33			1.32	2.27	1.99	0.15				0.45			0.68	65.73										96.91
YSF30	SOI6	#4	point				b.d.	b.d.	0.13	36.13								63.93			0.32	b.d.						100.52
YSF30	SOI6	#5	point	15.49			0.11	0.36	0.65	20.85							0.33	64.80										102.60
YSF30	SOI6	#6	point	21.61			0.71	1.47	2.19	7.11				0.13			0.65	65.13										99.00
YSF30	SOI6	#7	point	31.33			0.97	1.40	5.15	1.16		0.87	0.85	0.10			1.07	61.32										104.22
YSF30	SOI6	#8	point	25.60			1.07	1.89	2.50					0.29			0.94	66.24										98.54

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total	
YSF30	SOI6	#9	point					0.10	0.21	34.22								63.42										97.95	
YSF30	SOI6	#10	point				0.15		0.29	36.40								63.68										100.52	
YSF30	SOI6	#11	point				b.d.	0.09	0.53	34.84		0.12	0.11					60.58										96.28	
YSF30	SOI6	#12	point	16.16			0.17	0.21	0.29	15.37							0.33	68.05										100.58	
YSF30	SOI6	#13	point	25.32			1.11	1.80	2.30	1.59			0.12	0.17			0.74	66.13										99.28	
YSF30	SOI6	#14	point	26.40	0.20	b.d.	b.d.	0.68	10.96	1.19		0.82	1.82				2.83	29.07								7.60	81.58		
YSF30	SOI6	#15	point	7.37				0.14	0.23	28.01							0.29	60.40										96.44	
YSF30	SOI6	#16	point	11.49			0.20	0.23	0.22	23.95							0.26	67.18										103.52	
YSF30	SOI6	#17	point	17.16			b.d.	0.80	1.19	12.16							0.49	65.48										97.27	
YSF30	SOI6	#18	point	8.32		b.d.	0.13	b.d.	0.26	30.66								64.30										103.67	
YSF30	SOI7	#1	point	31.80			0.22	8.09	6.88								2.59	49.16										98.75	
YSF30	SOI7	#2	point	31.32			0.27	8.36	6.44								2.46	49.54										98.38	
YSF30	SOI7	#3	point	31.46			0.28	7.18	7.77								2.61	47.68										96.99	
YSF30	SOI7	#4	point	3.36				0.57	1.07								0.28	5.05										10.33	
YSF30	SOI8	#1	sum	7.48	0.03		0.19	2.15	0.69	0.19		0.03	0.08	0.07	0.06	0.03	0.53	13.56										25.09	
YSF30	SOI9	#1	area	28.22	b.d.	b.d.	0.53	8.40	1.97	0.66			0.13	0.27	0.22		1.89	51.44										93.74	
YSF30	SOI10	#1	area	29.56	b.d.		0.39	8.68	2.35	0.84		0.10	0.29	0.23	0.23		2.01	54.42										99.08	
YSF30	SOI11	#1	area	39.79	0.17	b.d.	0.16	0.13	12.60				0.11				2.54	32.15										87.65	
YSF30	SOI11	#2	area	44.82			b.d.		11.81								2.36	29.84										88.84	
YSF30	SOI11	#3	point	21.19			0.15	0.18	1.91	27.66							0.56	50.50			5.19					11.00	118.35		
YSF30	SOI11	#4	point	24.90			0.60	1.47	2.40					0.33	0.17		0.79	67.70										98.34	
YSF30	SOI11	#5	point	22.41		0.39	0.34	0.54						0.37	0.58	0.19	0.60	74.18										99.59	
YSF30	SOI11	#6	point	22.28			4.27	0.32						4.01	3.50	0.74	0.61	58.71										94.43	
YSF30	SOI11	#7	point	31.30	0.21	b.d.	0.16	13.12	0.94								2.60	52.54										100.87	
YSF30	SOI11	#8	point	31.22	b.d.	b.d.	0.23	13.27	0.86								2.47	53.27										101.30	
YSF30	SOI11	#9	point	30.77			0.36	12.62	1.21								2.32	52.62										99.89	
YSF30	SOI11	#10	point	31.57			0.26	11.43	2.95				0.09				2.33	52.35										100.97	
YSF30	SOI11	#11	point	32.02			0.26	6.79	8.59				0.12				2.55	48.57										98.91	
YSF30	SOI11	#12	point	33.19	b.d.		0.25	4.69	11.33				0.14				2.74	46.47										98.81	
YSF30	SOI11	#13	point	34.35			0.11	0.61	16.85				5.63				3.63	35.97										97.14	

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF30	SOI11	#14	point	30.77			0.26	12.96	1.11								2.39	52.91										100.40
YSF30	SOI11	#15	point	30.91			0.29	11.93	2.17								2.23	52.62										100.15
YSF30	SOI11	#16	point	30.90		0.13	0.29	9.69	4.75								2.36	50.61										98.72
YSF30	SOI11	#17	point	31.93	b.d.		0.24	5.30	10.46				0.16				2.82	47.07										97.98
YSF30	SOI11	#18	point	32.43	b.d.		0.28	4.27	11.70				0.17				2.60	46.58										98.02
YSF30	SOI11	#19	point	34.27			0.10	0.66	16.54				5.47				3.59	35.98										96.61
YSF30	SOI11	#20	point	24.83			1.28	2.97	1.78					0.96	0.17		0.74	62.91										95.65
YSF30	SOI11	#21	point	25.41			1.03	2.75	2.15					1.02			0.88	63.48										96.73
YSF30	SOI11	#22	point	21.03			0.62	0.23						0.82	0.49	b.d.	0.62	71.35										95.16
YSF30	SOI11	#23	point	21.51			0.59	0.22						0.67	0.64	b.d.	0.56	73.38										97.57
YSF30	SOI11	#24	point	34.16			b.d.	0.43	16.90				5.68				3.48	35.97										96.63
YSF30	SOI11	#25	point	34.93			b.d.	0.64	16.91				5.65				3.82	37.17										99.12
YSF30	SOI11	#26	point	15.31			0.44	0.59	2.40	27.10			0.23				0.65	57.38			0.25							104.34
YSF30	SOI11	#27	point	34.28			b.d.	0.37	16.99				5.49				3.85	36.55										97.54
YSF30	SOI11	#28	point	28.87			0.33	11.31	1.92				b.d.				2.21	49.52										94.16
YSF30	SOI11	#29	point	30.17	b.d.		0.21	4.38	10.60				0.11				2.69	44.86										93.02
YSF30	SOI12	#1	area	26.25	b.d.	b.d.	0.39	7.86	2.79	0.89		0.15	0.31	0.13	0.27		2.00	52.04										93.07
YSF30	SOI13	#1	area	27.97		0.14	0.45	8.82	2.23	0.73		0.13	0.29	0.19	0.19		2.10	53.27										96.51
YSF30	SOI14	#1	point	29.95			0.19	13.49	0.74								2.56	53.12										100.04
YSF30	SOI14	#2	point	31.42	0.22		0.22	5.58	10.36								2.91	47.44										98.16
YSF30	SOI14	#3	point	35.00				0.46	16.84	1.57		b.d.	4.85				4.24	39.02										101.98
YSF30	SOI14	#4	point	34.21			0.10	0.57	17.17				4.64				4.26	37.64										98.59
YSF30	SOI14	#5	point	24.27			0.72	2.26	1.85					0.35	0.24		0.82	66.95										97.46
YSF30	SOI14	#6	point	22.12			5.01	0.18						4.28	4.27	1.43	0.60	53.84										91.74
YSF30	SOI14	#7	point	23.95			8.43	0.35						3.82	2.98	1.11	0.67	52.70										94.03
YSF30	SOI14	#8	point	19.83			1.46	0.20						1.72	5.49	10.73	0.74	50.04										90.20
YSF30	SOI14	#9	point	20.88			0.39	0.24						0.34	0.60	0.36	0.68	73.85										97.33
YSF30	SOI14	#10	point	21.43			0.34	0.27						0.29	0.44	0.24	0.57	73.67										97.25
YSF30	SOI14	#11	point	29.18			0.34	12.26	1.43								2.30	51.52										97.03
YSF30	SOI14	#12	point	28.31		0.15	0.14	12.76	0.87								2.66	49.37										94.26
YSF30	SOI14	#13	point	26.10	b.d.		5.80	1.06	b.d.					4.13	4.14	1.27	0.78	55.24										98.51
YSF30	SOI14	#14	point	20.81			0.36	0.30						0.40	0.49	0.21	0.65	74.25										97.47

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF30	SOI14	#15	point	24.73			0.73	2.43	1.58					0.34	0.35		0.97	67.19										98.31
YSF30	SOI14	#16	point				b.d.	b.d.	0.14	37.15								63.45										100.74
YSF30	SOI14	#17	point	3.66	b.d.	b.d.	0.09	0.48	2.36		0.09	0.89	0.92				2.00	23.61										34.09
YSF30	SOI14	#18	point	31.46	1.49		b.d.	0.80	13.98	2.89		3.27	1.75				2.95	38.39						0.71				97.70
YSF30	SOI14	#19	point				0.33	0.14	0.35	33.83								60.75										95.40
YSF30	SOI14	#20	point	4.95			0.26	0.11	0.14	37.30								60.96										103.73
YSF31	SOI1	#1	area	26.23	b.d.		0.48	6.78	3.01	1.02		b.d.	0.34	0.24			1.78	44.10										83.98
YSF31	SOI2	#1	area	29.81	b.d.	0.13	0.50	8.15	2.47	0.91		0.16	0.30	0.22	0.21		1.93	51.86										96.67
YSF31	SOI3	#1	area	30.97	0.22	b.d.	0.55	8.70	2.45	0.87		0.11	0.34	b.d.	0.21		2.12	52.93										99.48
YSF31	SOI4	#1	area	29.22	b.d.		0.42	7.69	2.55	0.98		0.13	0.34	0.17	0.18		2.02	49.15										92.83
YSF31	SOI5	#1	point	34.59		b.d.	0.24	13.34	0.95								2.68	54.38										106.18
YSF31	SOI5	#2	point	35.69			0.24	7.10	8.48			0.37	0.51				2.91	48.30										103.59
YSF31	SOI5	#3	point	26.96			1.12	2.77	1.12					0.44	0.30		0.77	67.16										100.64
YSF31	SOI5	#4	point	27.33			1.62	3.51	1.08					0.94	0.27		0.86	63.45										99.06
YSF31	SOI5	#5	point	25.57	b.d.		0.49	3.51	0.46					0.29	1.02	1.40	0.78	65.16										98.68
YSF31	SOI5	#6	point	23.08			2.70	0.22		0.29				2.96	4.97	5.65	0.65	53.19										93.70
YSF31	SOI5	#7	point	23.74			0.37	0.35						0.36	0.36	0.30	0.58	73.47										99.52
YSF31	SOI5	#8	point	27.45		b.d.	0.91	2.52	1.52	0.34				0.40	b.d.		0.85	65.95										99.93
YSF31	SOI5	#9	point							35.54								60.37			0.43							96.34
YSF31	SOI5	#10	point	34.39	0.19		0.17	4.02	11.63				0.12				2.77	44.94										98.25
YSF31	SOI5	#11	point	35.46	0.33	b.d.	0.15	4.11	11.71				0.18				3.06	44.96										99.96
YSF31	SOI5	#12	point	34.69			0.21	4.49	11.09				0.20				2.76	46.59										100.02
YSF31	SOI5	#13	point	38.14	0.48	b.d.	b.d.	0.43	17.00		0.20	1.23	5.93				3.43	35.93										102.78
YSF31	SOI5	#14	point	35.96	1.22		b.d.	0.75	16.40			3.83	4.03	b.d.			3.30	34.85										100.33
YSF31	SOI5	#15	point	35.12	0.23	b.d.	b.d.	4.06	11.91				0.16				2.96	46.11										100.54
YSF31	SOI5	#16	point	23.97			5.35	0.62	0.12	0.15				3.37	2.61	0.87	0.64	59.37										97.07
YSF31	SOI5	#17	point	23.93			0.50	0.25						0.60	0.47	0.31	0.63	74.64										101.32
YSF31	SOI5	#18	point	36.22	b.d.	b.d.	0.21	4.73	11.65				0.13				2.77	46.85										102.56
YSF31	SOI5	#19	point	37.04	1.25		0.14	0.74	16.36			4.37	3.79	b.d.			3.28	33.13										100.11

				O	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Mo	Ba	W	Pb	total
YSF31	SOI6	#1	point	23.07			1.45	0.25						1.75	5.21	10.87	0.88	52.30										95.78
YSF31	SOI6	#2	point	23.38			0.38	0.27						0.33	0.66	0.48	0.60	75.23										101.33
YSF31	SOI6	#3	point	25.08			0.24	0.28						0.58	0.55	0.25	0.70	76.58										104.26
YSF31	SOI6	#4	point	26.74			6.58	0.22						4.46	3.23	0.82	0.66	56.07										98.78
YSF31	SOI6	#5	point	23.24			1.61	0.10	b.d.					1.62	5.42	16.38	0.75	45.85										94.98
YSF31	SOI6	#6	point	27.26			0.43	1.42	3.23				0.11	0.26	0.35	0.17	1.05	66.19										100.47
YSF31	SOI6	#7	point	33.38	b.d.	b.d.	0.19	13.21	0.76								2.59	52.94										103.07
YSF31	SOI6	#8	point	25.34			0.43	1.41	b.d.					0.38	0.64	0.26	1.01	74.28										103.75
YSF31	SOI6	#9	point	23.32			0.27	0.30						0.26	0.90	0.70	0.70	73.10										99.55
YSF31	SOI7	#1	area	26.77	b.d.	b.d.	0.53	8.09	2.89	1.34		0.16	0.42	0.21			2.09	51.27										93.77
YSF31	SOI8	#1	point	23.02			0.68	1.92	1.85					0.56			0.80	63.12										91.96
YSF31	SOI8	#2	point	22.70	b.d.		0.96	2.00	1.96					0.31			0.67	62.49										91.09
YSF31	SOI8	#3	point	30.11	0.20		0.17	4.00	10.85				0.13				2.58	42.80										90.85
YSF31	SOI8	#4	point	30.06	b.d.		0.17	4.69	10.29				0.14				2.62	45.09										93.05
YSF31	SOI8	#5	point	32.25				0.79	16.03				6.23				3.20	34.70										93.19
YSF31	SOI8	#6	point	32.19				0.55	15.64				6.05				2.85	34.28										91.55
YSF31	SOI8	#7	point	29.36	b.d.		14.41	0.56						2.76			0.63	48.83										96.55
YSF31	SOI8	#8	point	28.32			10.68	0.72						3.88			0.70	52.09										96.38
YSF31	SOI8	#9	point	29.51			0.17	5.34	9.21				0.11				2.39	44.46										91.19
YSF31	SOI8	#10	point	29.38			0.18	7.80	6.29				0.12				2.31	46.61										92.69
YSF31	SOI8	#11	point	28.61			0.23	9.50	4.08								2.17	48.03										92.63
YSF31	SOI8	#12	point	27.80			0.30	10.87	2.46								2.25	48.98										92.66
YSF31	SOI8	#13	point	28.37			0.29	11.79	1.50								2.25	49.64										93.84
YSF31	SOI8	#14	point	20.25			0.49	0.22						0.38			0.50	69.71										91.55
YSF31	SOI8	#15	point	23.73			0.29	3.65	0.65					0.36	0.23		1.21	65.18										95.29
YSF31	SOI8	#16	point	28.04			0.20	4.21	9.78				0.14				2.42	41.86										86.66

APPENDIX C:

Image Archive

Plate C1: Sample YSF1

- a) YSF1. SOI1. Scalebar 600µm.
- b) YSF1. SOI2. Scalebar 60µm.
- c) YSF1. SOI3. Scalebar 600µm.
- d) YSF1. SOI4. Scalebar 40µm.
- e) YSF1. SOI5. Scalebar 60µm.
- f) YSF1. SOI6. Scalebar 600µm.
- g) YSF1. SOI7. Scalebar 1mm.
- h) YSF1. SOI8. Scalebar 1mm.

Plate C2: Sample YSF1

- a) YSF1. SOI9. Scalebar 70µm.
- b) YSF1. SOI10. Scalebar 100µm.
- c) YSF1. SOI11. Scalebar 300µm.
- d) YSF1. SOI12. Scalebar 40µm.

Plate C3: Sample YSF2

- a) YSF2. SOI1. Scalebar 1mm.
- b) YSF2. SOI2. Scalebar 1mm.
- c) YSF2. SOI3. Scalebar 1mm.
- d) YSF2. SOI4. Scalebar 1mm.
- e) YSF2. SOI5. Scalebar 1mm.
- f) YSF2. SOI6. Scalebar 200µm.
- g) YSF2. SOI7. Scalebar 100µm.
- h) YSF2. SOI9. Scalebar 100µm.

Plate C4: Sample YSF2, SOI8 element mapping

- a) YSF2. SOI8. Scalebar 40µm.
- b) YSF2. SOI2. Aluminium. Scalebar 40µm.
- c) YSF2. SOI3. Calcium. Scalebar 40µm.
- d) YSF2. SOI4. Iron. Scalebar 40µm.
- e) YSF2. SOI5. Potassium. Scalebar 40µm.
- f) YSF2. SOI6. Phosphorus. Scalebar 40µm.
- g) YSF2. SOI7. Silicon. Scalebar 40µm.
- h) YSF2. SOI8. Sulphur. Scalebar 40µm.

Plate C5: Sample YSF2

- a) YSF2. SOI10. Scalebar 70µm.

Plate C6: Sample YSF3

- a) YSF3. SOI1. Scalebar 600µm.
- b) YSF3. SOI3. Scalebar 600µm.
- c) YSF3. SOI4. Scalebar 600µm.
- d) YSF3. SOI5. Scalebar 600µm.
- e) YSF3. SOI6. Scalebar 600µm.
- f) YSF3. SOI9. Scalebar 100µm.
- g) YSF3. SOI10. Scalebar 400µm.
- h) YSF3. SOI11. Scalebar 70µm.

Plate C7: Sample YSF4

- a) YSF4. SOI1. Scalebar 2mm.
- b) YSF4. SOI2. Scalebar 600µm.
- c) YSF4. SOI3. Scalebar 60µm.
- d) YSF4. SOI4. Scalebar 60µm.
- e) YSF4. SOI5. Scalebar 60µm.
- f) YSF4. SOI6. Scalebar 500µm.
- g) YSF4. SOI8. Scalebar 600µm.
- h) YSF4. SOI9. Scalebar 80µm.

Plate C8: Sample YSF4, SOI7 element mapping

- a) YSF4. SOI7. Scalebar 80µm.
- b) YSF4. SOI7. Phosphorus. Scalebar 80µm.
- c) YSF4. SOI7. Manganese. Scalebar 80µm.
- d) YSF4. SOI7. Iron. Scalebar 80µm.
- e) YSF4. SOI7. Calcium. Scalebar 80µm.
- f) YSF4. SOI7. Aluminium. Scalebar 80µm.
- g) YSF4. SOI7. Titanium. Scalebar 80µm.
- h) YSF4. SOI7. Vanadium. Scalebar 80µm.

Plate C9: Sample YSF4, SOI7 element mapping

- a) YSF4. SOI7. Magnesium. Scalebar 80µm.
- b) YSF4. SOI7. Silicon. Scalebar 80µm.
- c) YSF4. SOI7. Oxygen. Scalebar 80µm.
- d) YSF4. SOI7. Sulphur. Scalebar 80µm.

Sample YSF4

- e) YSF4. SOI10. Scalebar 600µm.
- f) YSF4. SOI11. Scalebar 600µm.

Plate C10: Sample YSF5

- a) YSF5. SOI1. Scalebar 1mm.
- b) YSF5. SOI2. Scalebar 100µm.
- c) YSF5. SOI3. Scalebar 1mm.
- d) YSF5. SOI4. Scalebar 100µm.
- e) YSF5. SOI5. Scalebar 60µm.

Plate C11: Sample YSF6

- a) YSF6. SOI1. Scalebar 1mm.
- b) YSF6. SOI2. Scalebar 1mm.
- c) YSF6. SOI3. Scalebar 200µm.
- d) YSF6. SOI4. Scalebar 200µm.
- e) YSF6. SOI5. Scalebar 1mm.
- f) YSF6. SOI6. Scalebar 40µm.
- g) YSF6. SOI7. Scalebar 100µm.
- h) YSF6. SOI8. Scalebar 1mm.

Plate C12: Sample YSF6

- a) YSF6. SOI9. Scalebar 50µm.
- b) YSF6. SOI10. Scalebar 1mm.

Plate C13: Sample YSF7

- a) YSF7. SOI1. Scalebar 50µm.
- b) YSF7. SOI2. Scalebar 600µm.
- c) YSF7. SOI3. Scalebar 1mm.

Plate C14: Sample YSF8

- a) YSF8. SOI1. Scalebar 1mm.
- b) YSF8. SOI2. Scalebar 1mm.
- c) YSF8. SOI3. Scalebar 1mm.
- d) YSF8. SOI4. Scalebar 1mm.
- e) YSF8. SOI5. Scalebar 1mm.
- f) YSF8. SOI6. Scalebar 600µm.
- g) YSF8. SOI7. Scalebar 800µm.
- h) YSF8. SOI8. Scalebar 60µm.

Plate C15: Sample YSF8

- a) YSF8. SOI9. Scalebar 700µm.
- b) YSF8. SOI10. Scalebar 60µm.
- c) YSF8. SOI11. Scalebar 300µm.
- d) YSF8. SOI12. Scalebar 300µm.

Plate C16: Sample YSF9

- a) YSF9. SOI1. Scalebar 600µm.
- b) YSF9. SOI2. Scalebar 70µm.
- c) YSF9. SOI3. Scalebar 600µm.
- d) YSF9. SOI4. Scalebar 600µm.
- e) YSF9. SOI5. Scalebar 600µm.
- f) YSF9. SOI6. Scalebar 100µm.

Plate C17: Sample YSF10

- a) YSF10. SOI1. Scalebar 1mm.
- b) YSF10. SOI2. Scalebar 1mm.
- c) YSF10. SOI3. Scalebar 100µm.
- d) YSF10. SOI4. Scalebar 60µm.
- e) YSF10. SOI5. Scalebar 1mm.
- f) YSF10. SOI6. Scalebar 1mm.
- g) YSF10. SOI7. Scalebar 1mm.
- h) YSF10. SOI8. Scalebar 1mm.

Plate C18: Sample YSF10

- a) YSF10. SOI9. Scalebar 100µm.
- b) YSF10. SOI10. Scalebar 40µm.

Plate C19: Sample YSF11

- a) YSF11. SOI1. Scalebar 3mm.
- b) YSF11. SOI2. Scalebar 100µm.
- c) YSF11. SOI3. Scalebar 40µm.
- d) YSF11. SOI4. Scalebar 100µm.
- e) YSF11. SOI5. Scalebar 40µm.
- f) YSF11. SOI6. Scalebar 1mm.
- g) YSF11. SOI7. Scalebar 100µm.
- h) YSF11. SOI8. Scalebar 100µm.

Plate C20: Sample YSF11

Montage of YSF11 SOI3-7 showing particles

Plate C21: Sample YSF11

- a) YSF11. SOI9. Scalebar 100µm.
- b) YSF11. SOI10. Scalebar 100µm.
- c) YSF11. SOI11. Scalebar 100µm.
- d) YSF11. SOI12. Scalebar 40µm.
- e) YSF11. SOI19. Scalebar 1mm.
- f) YSF11. SOI20. Scalebar 200µm.
- g) YSF11. SOI21. Scalebar 2mm.
- h) YSF11. SOI22. Scalebar 200µm.

Plate C22: Sample YSF11

- a) YSF11. SOI23. Scalebar 60µm.
- b) YSF11. SOI24. Scalebar 60µm.
- c) YSF11. SOI25. Scalebar 60µm.
- d) YSF11. SOI26. Scalebar 60µm.
- e) YSF11. SOI27. Scalebar 100µm.
- f) YSF11. SOI28. Scalebar 2mm.
- g) YSF11. SOI29. Scalebar 2mm.
- h) YSF11. SOI30. Scalebar 100µm.

Plate C23: Sample YSF11

- a) YSF11. SOI31. Scalebar 600µm.
- b) YSF11. SOI32. Scalebar 60µm.
- c) YSF11. SOI33. Scalebar 1mm.
- d) YSF11. SOI34. Scalebar 100µm.
- e) YSF11. SOI35. Scalebar 1mm.
- f) YSF11. SOI36. Scalebar 100µm.
- g) YSF11. SOI37. Scalebar 1mm.
- h) YSF11. SOI38. Scalebar 60µm.

Plate C24: Sample YSF11

- a) YSF11. SOI39. Scalebar 1mm.
- b) YSF11. SOI40. Scalebar 100µm.
- c) YSF11. SOI41. Scalebar 1mm.
- d) YSF11. SOI42. Scalebar 100µm.
- e) YSF11. SOI43. Scalebar 1mm.
- f) YSF11. SOI44. Scalebar 100µm.
- g) YSF11. SOI45. Scalebar 1mm.
- h) YSF11. SOI46. Scalebar 100µm.

Plate C25: Sample YSF11

- a) YSF11. SOI47. Scalebar 1mm.
- b) YSF11. SOI48. Scalebar 100µm.
- c) YSF11. SOI49. Scalebar 1mm.
- d) YSF11. SOI50. Scalebar 100µm.
- e) YSF11. SOI51. Scalebar 1mm.
- f) YSF11. SOI52. Scalebar 100µm.
- g) YSF11. SOI53. Scalebar 1mm.
- h) YSF11. SOI54. Scalebar 100µm.

Plate C26: Sample YSF11

- a) YSF11. SOI55. Scalebar 1mm.
- b) YSF11. SOI56. Scalebar 100µm.
- c) YSF11. SOI57. Scalebar 1mm.
- d) YSF11. SOI58. Scalebar 100µm.

Plate C27: Sample YSF11a

- a) YSF11a. SOI1. Scalebar 60µm.
- b) YSF11a. SOI2. Scalebar 100µm.
- c) YSF11a. SOI4. Scalebar 100µm.
- d) YSF11a. SOI5. Scalebar 100µm.
- e) YSF11a. SOI6. Scalebar 80µm.
- f) YSF11a. SOI7. Scalebar 40µm.
- g) YSF11a. SOI8. Scalebar 60µm.

Plate C28: Sample YSF12

- a) YSF12. SOI1. Scalebar 1mm.
- b) YSF12. SOI2. Scalebar 2mm.
- c) YSF12. SOI3. Scalebar 100µm.
- d) YSF12. SOI4. Scalebar 1mm.
- e) YSF12. SOI5. Scalebar 60µm.
- f) YSF12. SOI6. Scalebar 100µm.
- g) YSF12. SOI7. Scalebar 1mm.
- h) YSF12. SOI8. Scalebar 60µm.

Plate C29: Sample YSF12

- a) YSF12. SOI9. Scalebar 400µm.
- b) YSF12. SOI10. Scalebar 100µm.
- c) YSF12. SOI11. Scalebar 100µm.
- d) YSF12. SOI12. Scalebar 60µm.
- e) YSF12. SOI13. Scalebar 1mm.
- f) YSF12. SOI14. Scalebar 100µm.
- g) YSF12. SOI15. Scalebar 1mm.
- h) YSF12. SOI16. Scalebar 100µm.

Plate C30: Sample YSF12

- a) YSF12. SOI17. Scalebar 100µm.
- b) YSF12. SOI18. Scalebar 100µm.
- c) YSF12. SOI19. Scalebar 60µm.
- d) YSF12. SOI20. Scalebar 2mm.
- e) YSF12. SOI21. Scalebar 600µm.
- f) YSF12. SOI22. Scalebar 100µm.
- g) YSF12. SOI23. Scalebar 1mm.
- h) YSF12. SOI24. Scalebar 100µm.

Plate C31: Sample YSF12

- a) YSF12. SOI25. Scalebar 100µm.
- b) YSF12. SOI26. Scalebar 1mm.
- c) YSF12. SOI27. Scalebar 100µm.
- d) YSF12. SOI29. Scalebar 1mm.
- e) YSF12. SOI30. Scalebar 400µm.
- f) YSF12. SOI31. Scalebar 100µm.

Plate C32: Sample YSF12, SOI28 element mapping

- a) YSF12. SOI28. Scalebar 30µm.
- b) YSF12. SOI28. Chromium. Scalebar 30µm.
- c) YSF12. SOI28. Iron. Scalebar 30µm.
- d) YSF12. SOI28. Phosphorus. Scalebar 30µm.
- e) YSF12. SOI28. Silicon. Scalebar 30µm.
- f) YSF12. SOI28. Aluminium. Scalebar 30µm.

Plate C33: Sample YSF13

- a) YSF13. SOI1. Scalebar 2mm.
- b) YSF13. SOI2. Scalebar 2mm.
- c) YSF13. SOI3. Scalebar 2mm.
- d) YSF13. SOI4. Scalebar 200µm.
- e) YSF13. SOI5. Scalebar 1mm.
- f) YSF13. SOI6. Scalebar 100µm.
- g) YSF13. SOI7. Scalebar 1mm.
- h) YSF13. SOI8. Scalebar 1mm.

Plate C34: Sample YSF13

- a) YSF13. SOI9. Scalebar 1mm.

Plate C35: Sample YSF14, SOI1 element mapping

- a) YSF14. SOI1. Scalebar 40µm.
- b) YSF14. SOI1. Manganese. Scalebar 40µm.
- c) YSF14. SOI1. Phosphorus. Scalebar 40µm.
- d) YSF14. SOI1. Sulphur. Scalebar 40µm.
- e) YSF14. SOI1. Silicon. Scalebar 40µm.

Sample YSF14

- f) YSF14. SOI2. Scalebar 600µm.
- g) YSF14. SOI3. Scalebar 600µm.
- h) YSF14. SOI4. Scalebar 600µm.

Plate C36: Sample YSF14

- a) YSF14. SOI5. Scalebar 60µm.
- b) YSF14. SOI6. Scalebar 300µm.

Plate C37: Sample YSF15

- a) YSF15. SOI1. Scalebar 2mm.
- b) YSF15. SOI2. Scalebar 200µm.
- c) YSF15. SOI3. Scalebar 3mm.
- d) YSF15. SOI4. Scalebar 3mm.
- e) YSF15. SOI5. Scalebar 3mm.
- f) YSF15. SOI6. Scalebar 700µm.
- g) YSF15. SOI7. Scalebar 100µm.
- h) YSF15. SOI8. Scalebar 1mm.

Plate C38: Sample YSF16

- a) YSF16. SOI1. Scalebar 2mm.
- b) YSF16. SOI2. Scalebar 200µm.
- c) YSF16. SOI3. Scalebar 2mm.
- d) YSF16. SOI4. Scalebar 2mm.
- e) YSF16. SOI5. Scalebar 2mm.

Plate C39: Sample YSF17

- a) YSF17. SOI1. Scalebar 200µm.
- b) YSF17. SOI2. Scalebar 1mm.
- c) YSF17. SOI3. Scalebar 1mm.
- d) YSF17. SOI4. Scalebar 1mm.
- e) YSF17. SOI5. Scalebar 1mm.
- f) YSF17. SOI6. Scalebar 60µm.
- g) YSF17. SOI7. Scalebar 1mm.
- h) YSF17. SOI8. Scalebar 100µm.

Plate C40: Sample YSF17

- a) YSF17. SOI9. Scalebar 60µm.
- b) YSF17. SOI9a. Scalebar 60µm.

Plate C41: Sample YSF18

- a) YSF18. SOI1. Scalebar 1mm.
- b) YSF18. SOI2. Scalebar 60µm.
- c) YSF18. SOI3. Scalebar 60µm.
- d) YSF18. SOI4. Scalebar 600µm.
- e) YSF18. SOI5. Scalebar 600µm.
- f) YSF18. SOI6. Scalebar 600µm.
- g) YSF18. SOI7. Scalebar 600µm.
- h) YSF18. SOI8. Scalebar 600µm.

Plate C42: Sample YSF19

- a) YSF19. SOI1. Scalebar 600µm.
- b) YSF19. SOI2. Scalebar 600µm.
- c) YSF19. SOI3. Scalebar 600µm.
- d) YSF19. SOI4. Scalebar 600µm.
- e) YSF19. SOI5. Scalebar 100µm.
- f) YSF19. SOI6. Scalebar 600µm.

Plate C43: Sample YSF21 SOI1 element mapping

- a) YSF21. SOI1. Scalebar 200µm.
- b) YSF21. SOI1. Aluminium. Scalebar 200µm.
- c) YSF21. SOI1. Calcium. Scalebar 200µm.
- d) YSF21. SOI1. Iron. Scalebar 200µm.
- e) YSF21. SOI1. Potassium. Scalebar 200µm.
- f) YSF21. SOI1. Magnesium. Scalebar 200µm.
- g) YSF21. SOI1. Manganese. Scalebar 200µm.
- h) YSF21. SOI1. Sulphur. Scalebar 200µm.

Plate C44: Sample YSF21 SOI1 element mapping

- a) YSF21. SOI1. Silicon. Scalebar 200µm.
- b) YSF21. SOI1. Titanium. Scalebar 200µm.

Sample YSF 21

- c) YSF21. SOI2. Scalebar 600µm.
- d) YSF21. SOI3. Scalebar 600µm.
- e) YSF21. SOI4. Scalebar 600µm.
- f) YSF21. SOI5. Scalebar 100µm.

Plate C45: Sample YSF22

- a) YSF22. SOI1. Scalebar 1mm.
- b) YSF22. SOI2. Scalebar 1mm.
- c) YSF22. SOI3. Scalebar 600µm.
- d) YSF22. SOI4. Scalebar 600µm.
- e) YSF22. SOI5. Scalebar 600µm.
- f) YSF22. SOI6. Scalebar 1mm.
- g) YSF22. SOI7. Scalebar 600µm.
- h) YSF22. SOI8. Scalebar 100µm.

Plate C46: Sample YSF23

- a) YSF23. SOI1. Scalebar 1mm.
- b) YSF23. SOI2. Scalebar 60µm.
- c) YSF23. SOI3. Scalebar 600µm.
- d) YSF23. SOI4. Scalebar 600µm.
- e) YSF23. SOI5. Scalebar 600µm.
- f) YSF23. SOI6. Scalebar 600µm.
- g) YSF23. SOI7. Scalebar 70µm.

Plate C47: Sample YSF24

- a) YSF24. SOI2. Scalebar 1mm.
- b) YSF24. SOI3. Scalebar 1mm.
- c) YSF24. SOI4. Scalebar 200µm.
- d) YSF24. SOI5. Scalebar 100µm.
- e) YSF24. SOI6. Scalebar 1mm.
- f) YSF24. SOI7. Scalebar 1mm.
- g) YSF24. SOI8. Scalebar 600µm.

Plate C48: Sample YSF25

- a) YSF25. SOI1. Scalebar 600µm.
- b) YSF25. SOI2. Scalebar 100µm.
- c) YSF25. SOI3. Scalebar 600µm.
- d) YSF25. SOI4. Scalebar 100µm.
- e) YSF25. SOI5. Scalebar 1mm.
- f) YSF25. SOI6. Scalebar 1mm.
- g) YSF25. SOI7. Scalebar 1mm.
- h) YSF25. SOI8. Scalebar 1mm.

Plate C49: Sample YSF25

- a) YSF25. SOI9. Scalebar 1mm.
- b) YSF25. SOI10. Scalebar 1mm.
- c) YSF25. SOI11. Scalebar 1mm.

Plate C50: Sample YSF27

- a) YSF27. SOI1. Scalebar 600µm.
- b) YSF27. SOI2. Scalebar 600µm.
- c) YSF27. SOI3. Scalebar 600µm.
- d) YSF27. SOI4. Scalebar 600µm.
- e) YSF27. SOI5. Scalebar 600µm.
- f) YSF27. SOI6. Scalebar 600µm.
- g) YSF27. SOI7. Scalebar 600µm.
- h) YSF27. SOI8. Scalebar 600µm.

Plate C51: Sample YSF27

- a) YSF27. SOI9. Scalebar 600µm.
- b) YSF27. SOI10. Scalebar 100µm.
- c) YSF27. SOI11. Scalebar 400µm.
- d) YSF27. SOI12. Scalebar 300µm.
- e) YSF27. SOI13. Scalebar 70µm.
- f) YSF27. SOI14. Scalebar 40µm.
- g) YSF27. SOI15. Scalebar 200µm.
- h) YSF27. SOI16. Scalebar 70µm.

Plate C52: Sample YSF29

- a) YSF29. SOI2. Scalebar 600µm.
- b) YSF29. SOI3. Scalebar 70µm.
- c) YSF29. SOI4. Scalebar 70µm.
- d) YSF29. SOI5. Scalebar 600µm.
- e) YSF29. SOI6. Scalebar 100µm.
- f) YSF29. SOI7. Scalebar 600µm.
- g) YSF29. SOI8. Scalebar 600µm.
- h) YSF29. SOI9. Scalebar 600µm.

Plate C53: Sample YSF29

- a) YSF29. SOI10. Scalebar 70µm.

Plate C54: Sample YSF30 SOI2 element mapping

- a) YSF30. SOI2. Scalebar 60µm.
- b) YSF30. SOI2. Calcium. Scalebar 60µm.
- c) YSF30. SOI2. Iron. Scalebar 60µm.
- d) YSF30. SOI2. Potassium. Scalebar 60µm.
- e) YSF30. SOI2. Phosphorus. Scalebar 60µm.
- f) YSF30. SOI2. Sulphur. Scalebar 60µm.
- g) YSF30. SOI2. Silicon. Scalebar 60µm.

Sample YSF30

- h) YSF30. SOI1. Scalebar 600µm.

Plate C55: Sample YSF30 SOI5 element mapping

- a) YSF30. SOI5. Scalebar 60µm.
- b) YSF30. SOI5. Aluminium. Scalebar 60µm.
- c) YSF30. SOI5. Calcium. Scalebar 60µm.
- d) YSF30. SOI5. Iron. Scalebar 60µm.
- e) YSF30. SOI5. Phosphorus. Scalebar 60µm.
- f) YSF30. SOI5. Silicon. Scalebar 60µm.
- g) YSF30. SOI5. Sulphur. Scalebar 60µm.
- h) YSF30. SOI5. Titanium. Scalebar 600µm.

Plate C56: Sample YSF30

- a) YSF30. SOI6. Scalebar 60µm.
- b) YSF30. SOI7. Scalebar 60µm.

Sample YSF30 SOI8 element mapping

- c) YSF30. SOI8. Scalebar 200µm.
- d) YSF30. SOI8. Aluminium. Scalebar 200µm.
- e) YSF30. SOI8. Calcium. Scalebar 200µm.
- f) YSF30. SOI8. Chromium. Scalebar 200µm.
- g) YSF30. SOI8. Iron. Scalebar 200µm.
- h) YSF30. SOI8. Phosphorus. Scalebar 200µm.

Plate C57: Sample YSF30 SOI8 element mapping

- a) YSF30. SOI8. Sulphur. Scalebar 60µm.
- b) YSF30. SOI8. Silicon. Scalebar 60µm.
- c) YSF30. SOI8. Titanium. Scalebar 60µm.
- d) YSF30. SOI8. Vanadium. Scalebar 60µm.

Sample YSF30

- e) YSF30. SOI9. Scalebar 1mm.
- f) YSF30. SOI10. Scalebar 1mm.
- g) YSF30. SOI11. Scalebar 100µm.
- h) YSF30. SOI12. Scalebar 1mm.

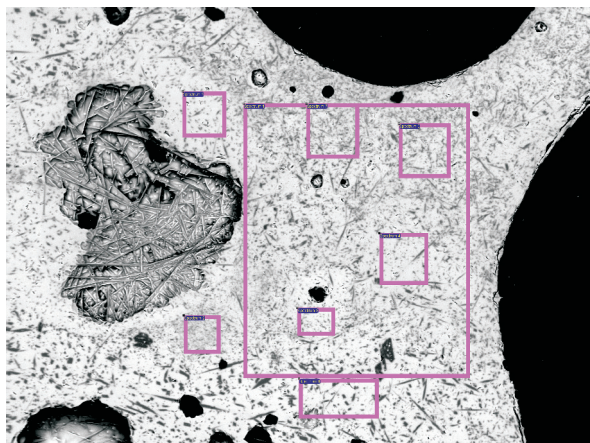
Plate C58: Sample YSF30

- a) YSF30. SOI13. Scalebar 1mm.
- b) YSF30. SOI14. Scalebar 100µm.

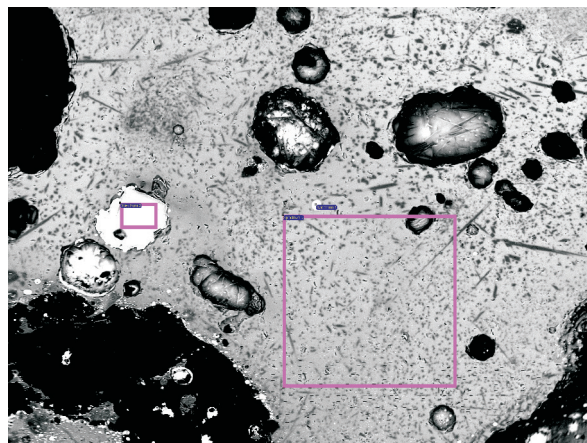
Plate C59: Sample YSF31

- a) YSF31. SOI1. Scalebar 2mm.
- b) YSF31. SOI2. Scalebar 2mm.
- c) YSF31. SOI3. Scalebar 2mm.
- d) YSF31. SOI4. Scalebar 2mm.
- e) YSF31. SOI5. Scalebar 100µm.
- f) YSF31. SOI6. Scalebar 100µm.
- g) YSF31. SOI7. Scalebar 1mm.
- h) YSF31. SOI8. Scalebar 100µm.

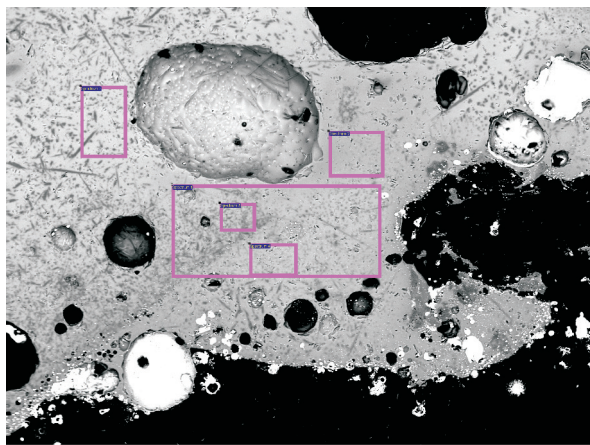
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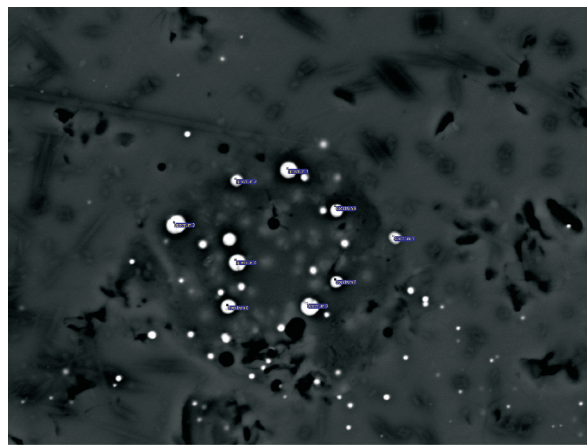
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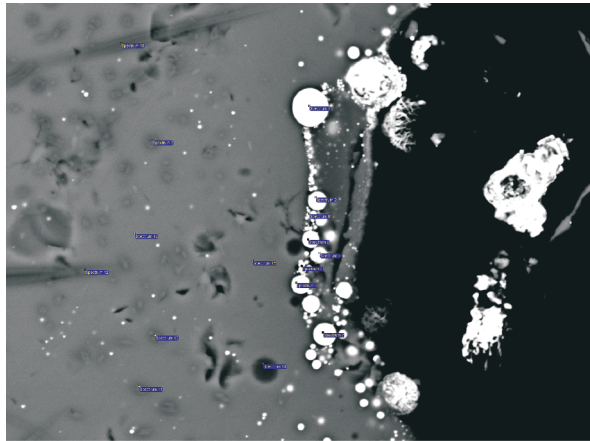
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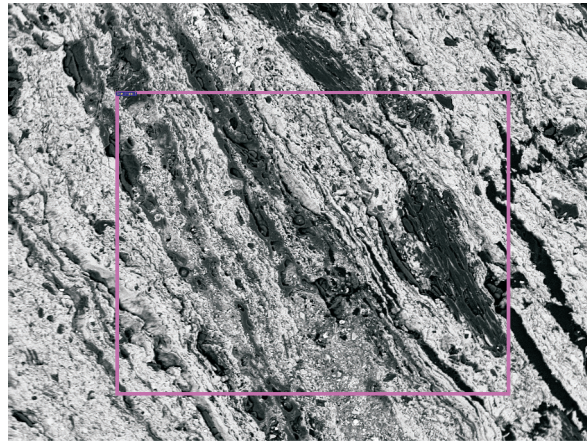
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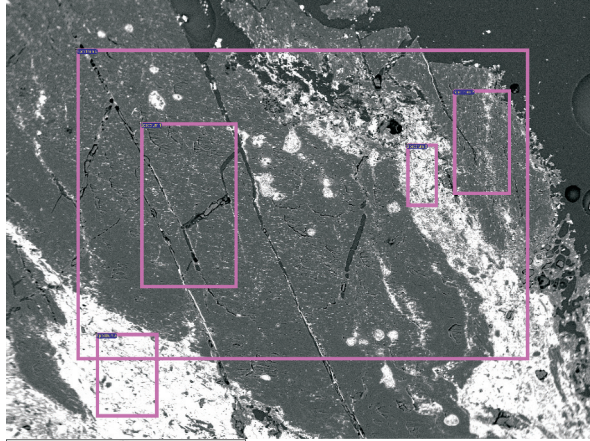
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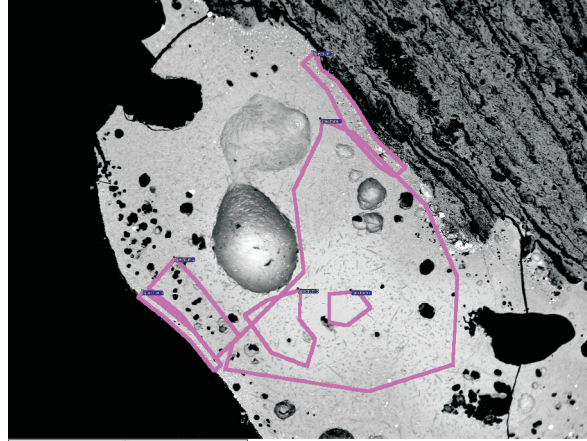
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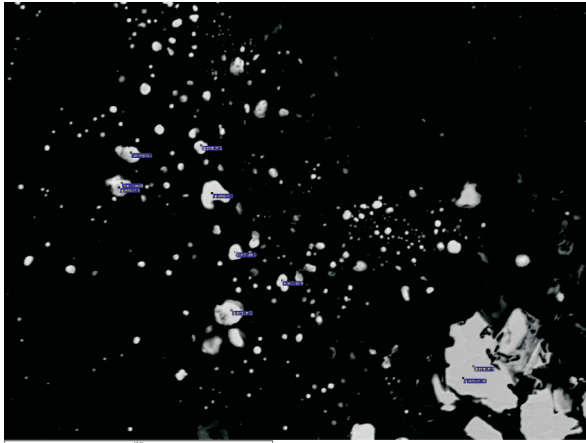
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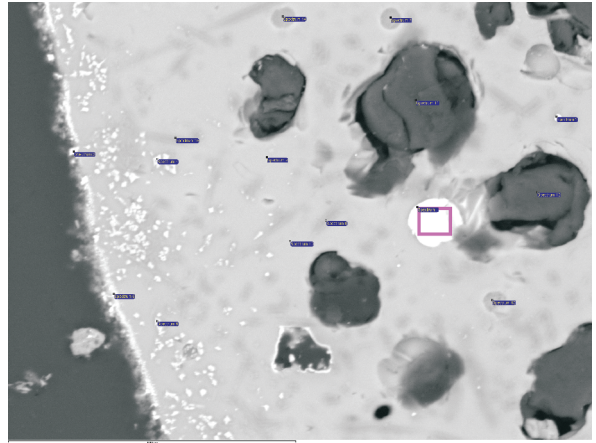


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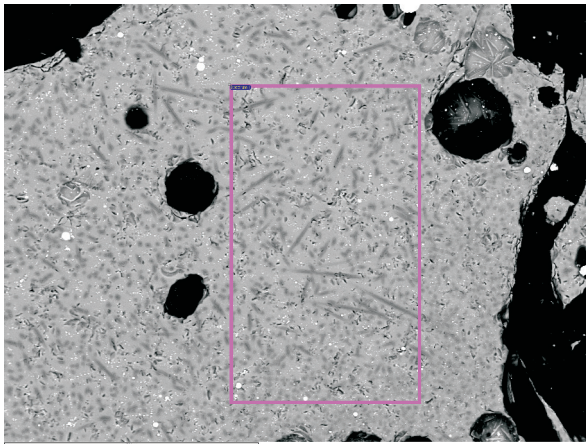


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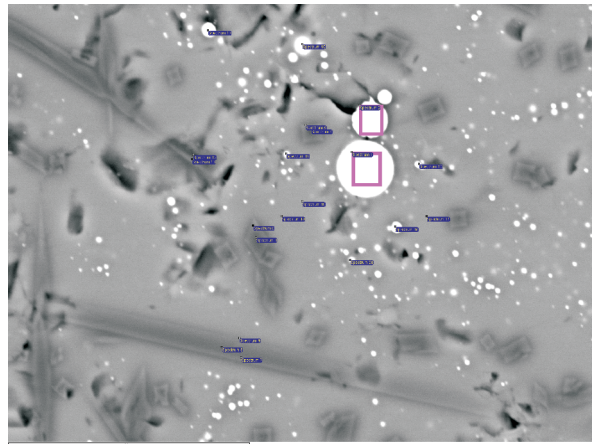
Plate C2



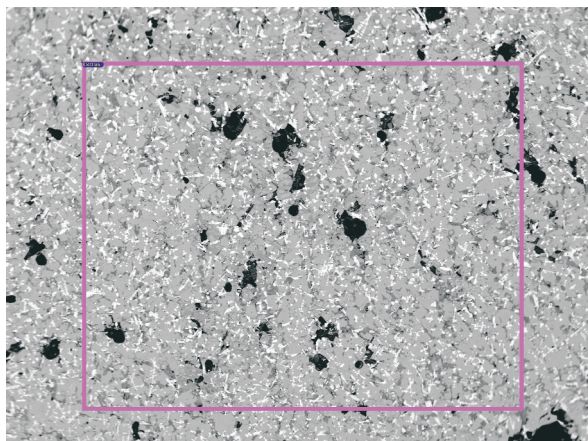
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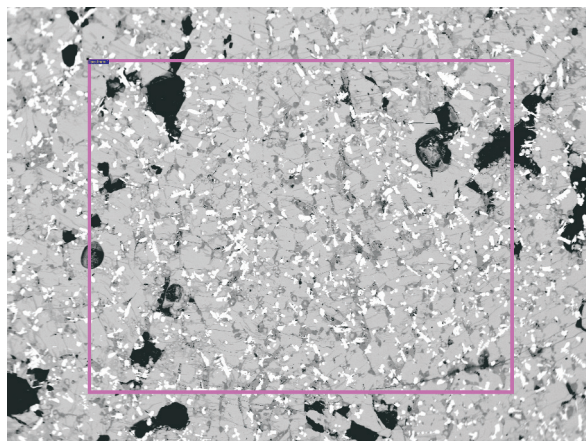
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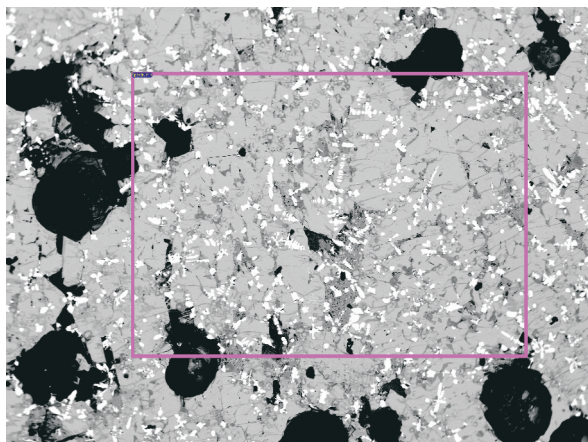
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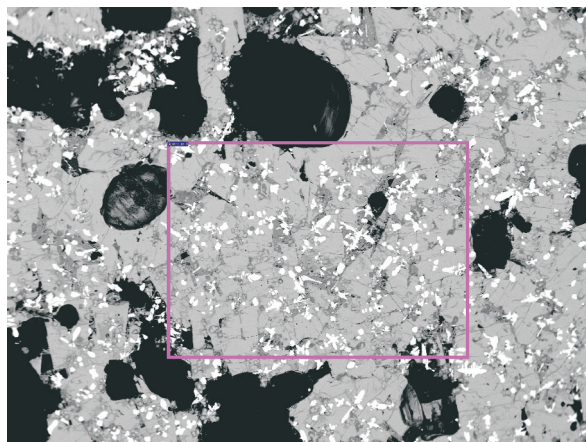
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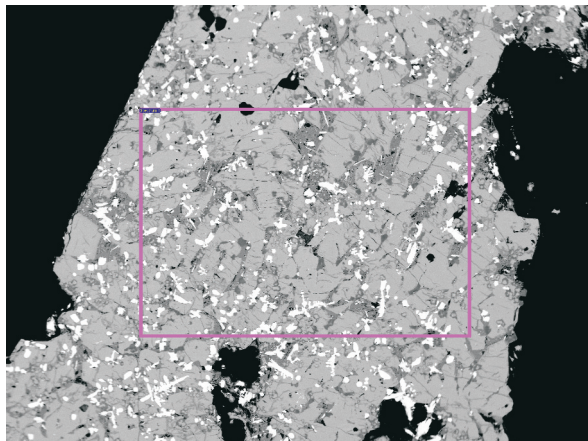
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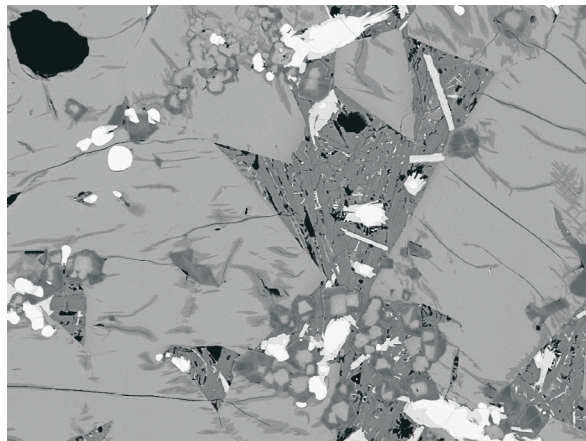
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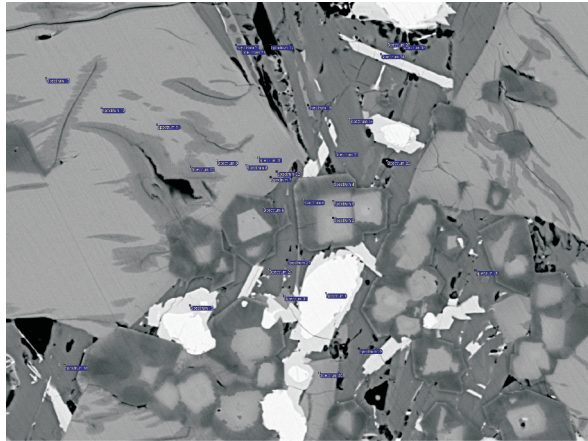
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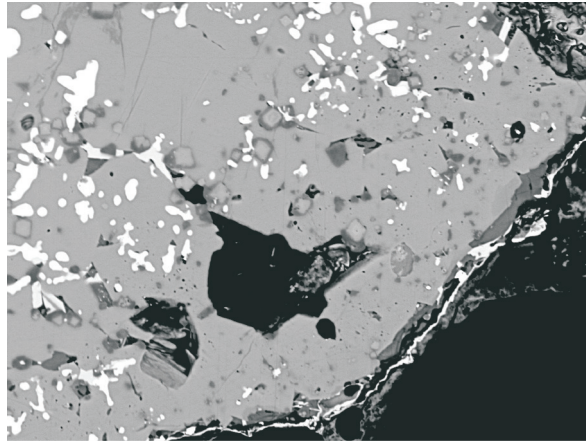
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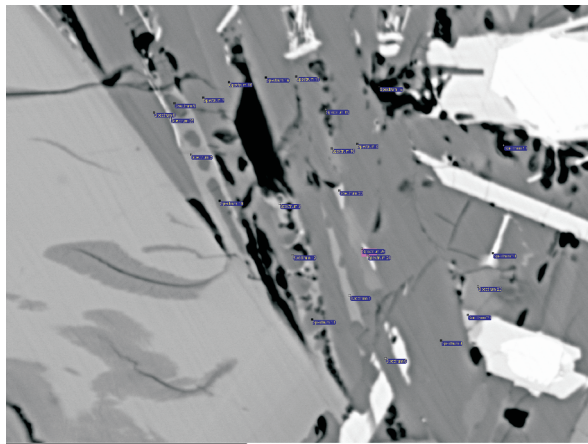
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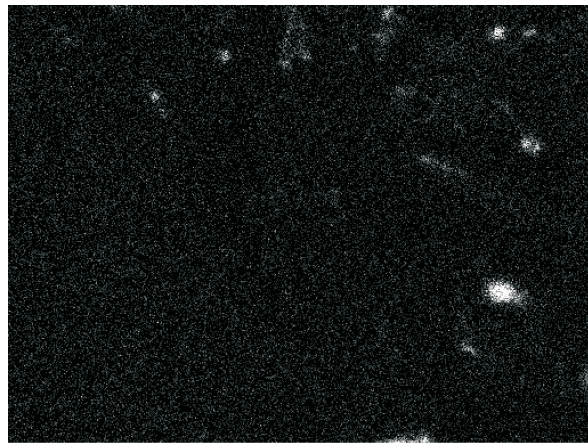


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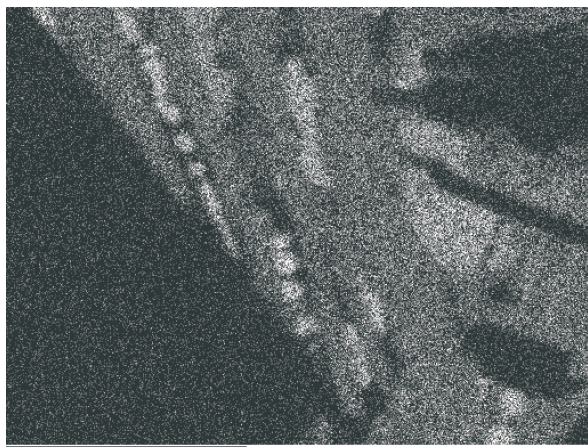


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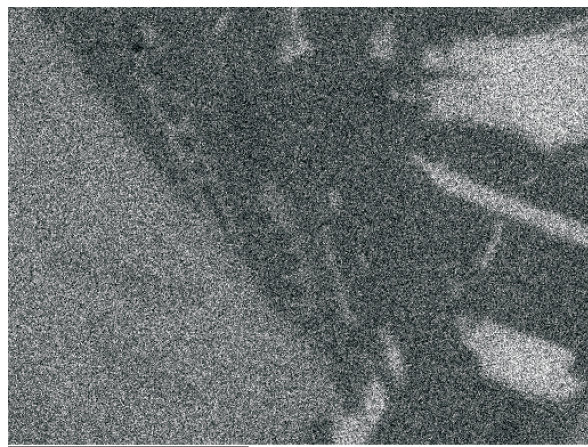
Plate C4



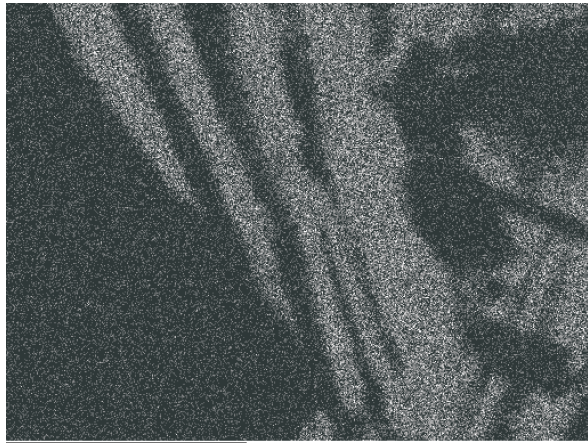
c



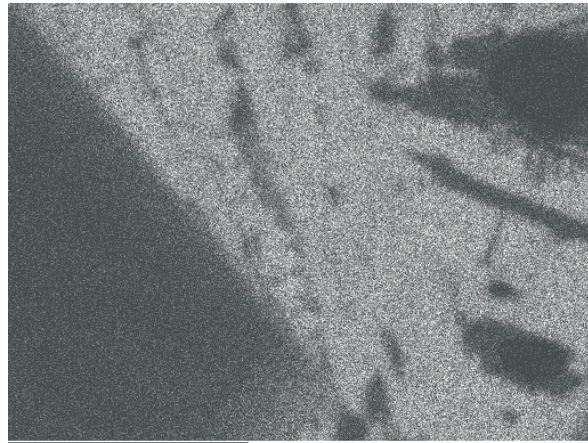
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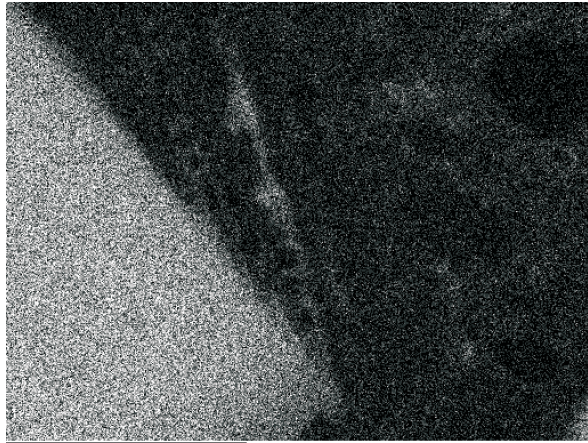
e



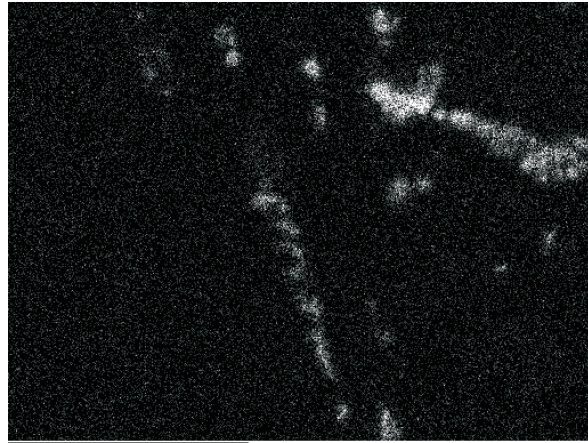
f



g



h



a

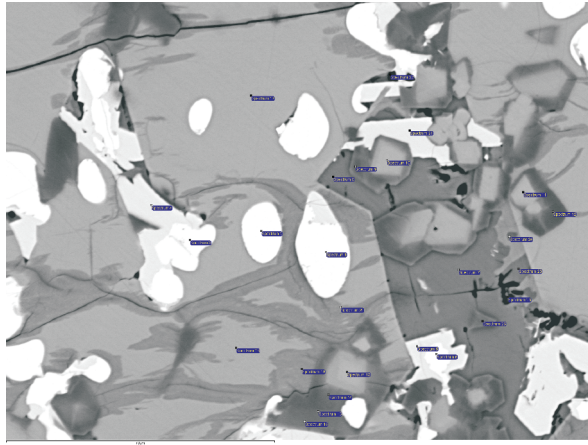
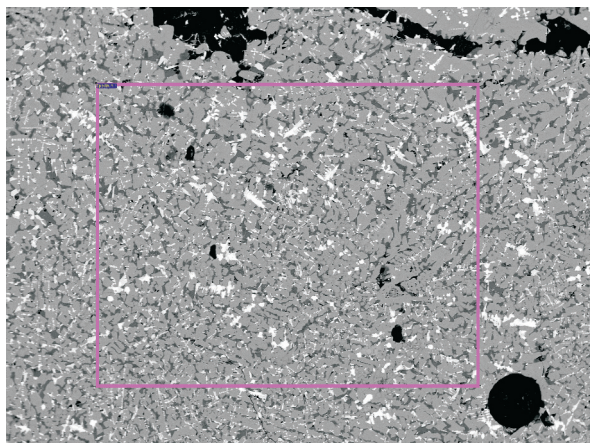
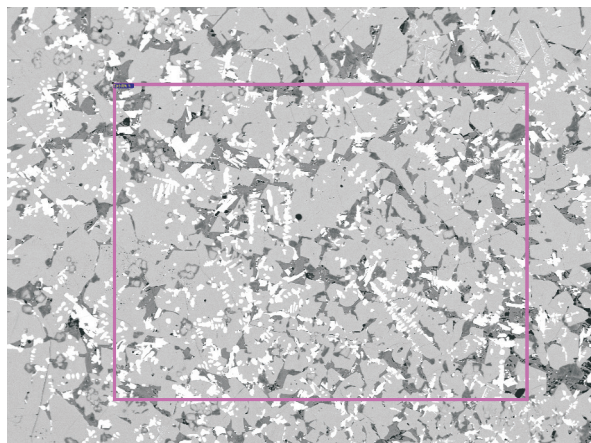


Plate C5

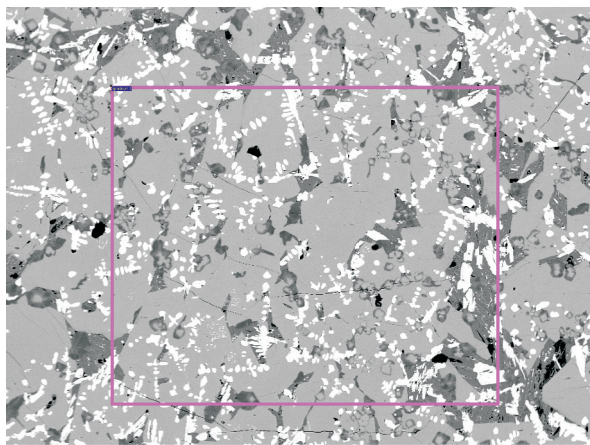
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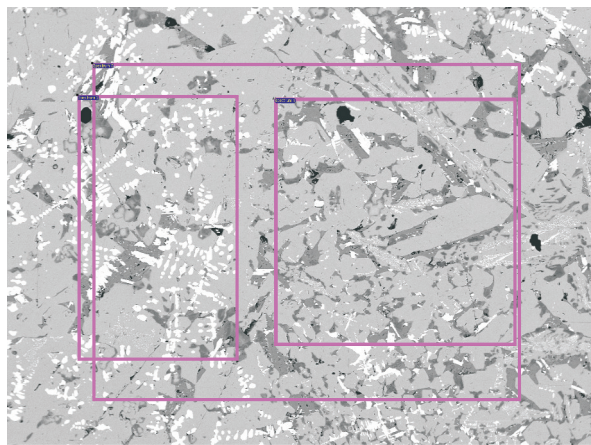
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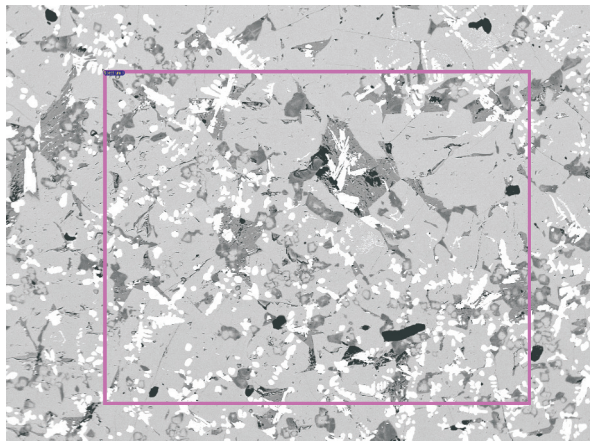
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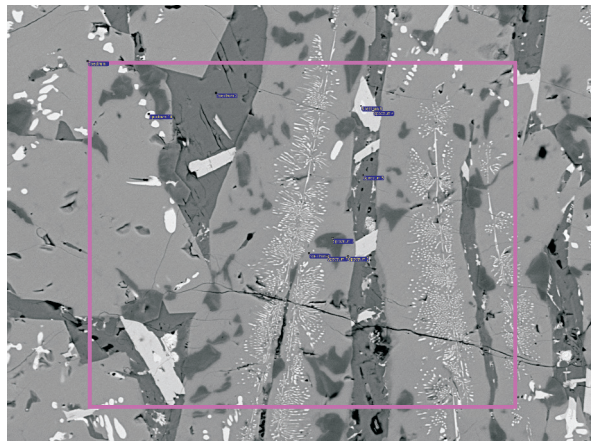
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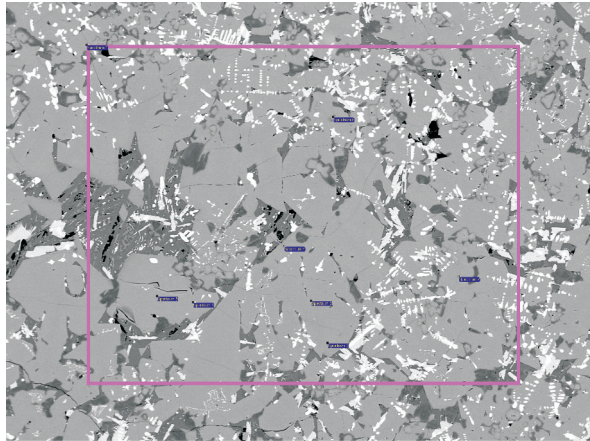
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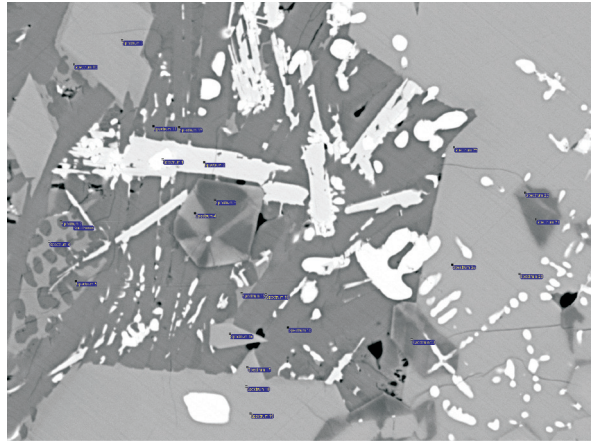
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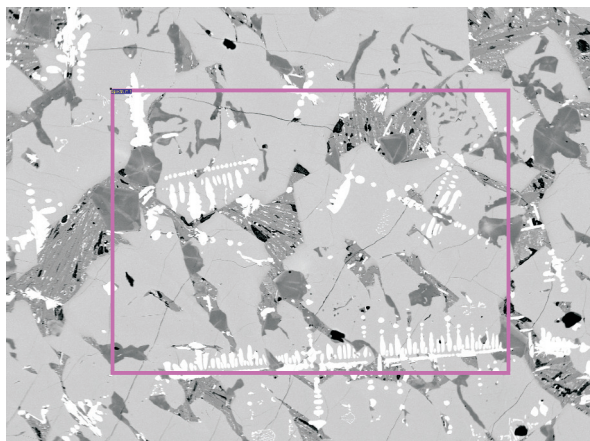
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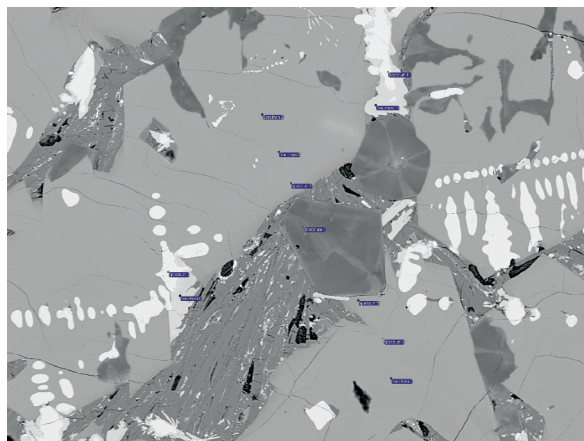
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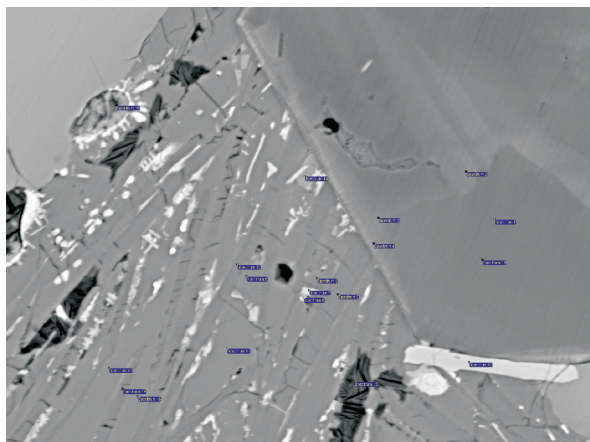
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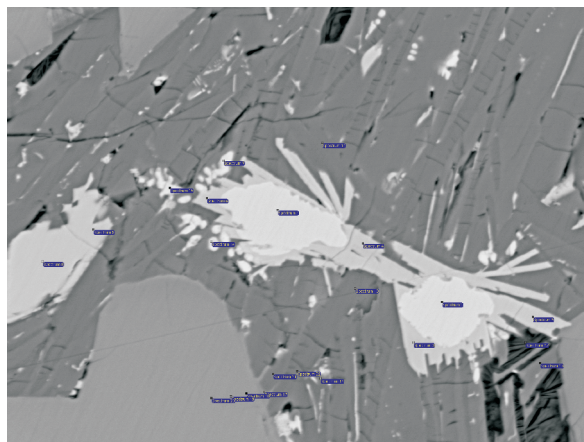
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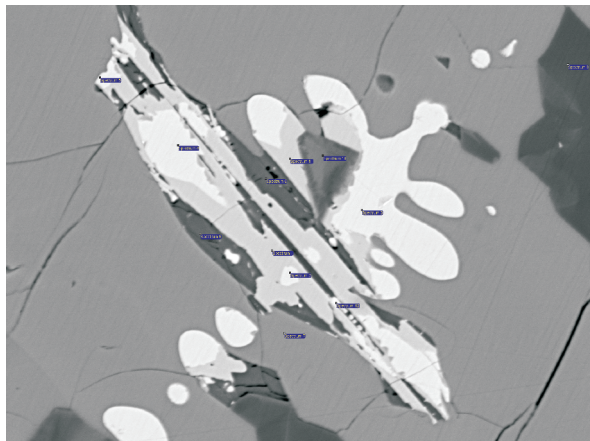
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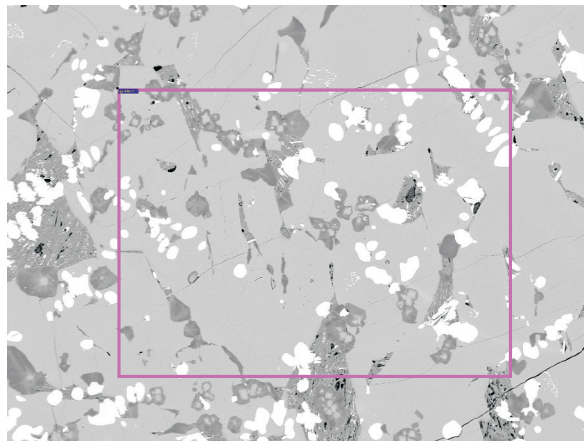
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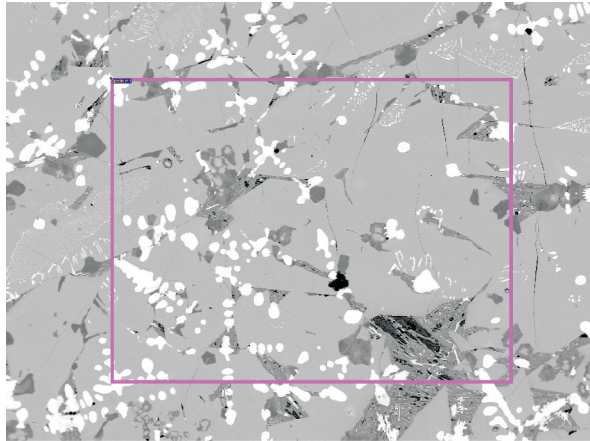
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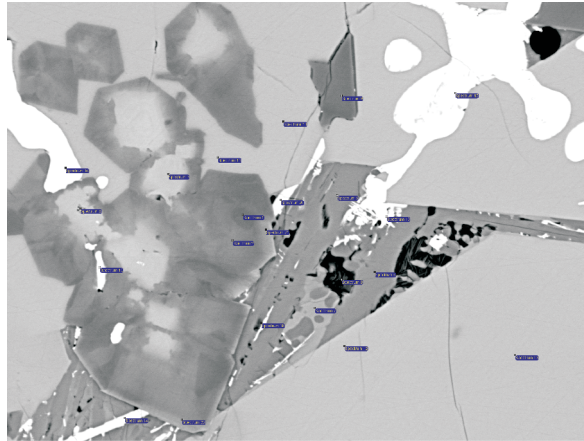
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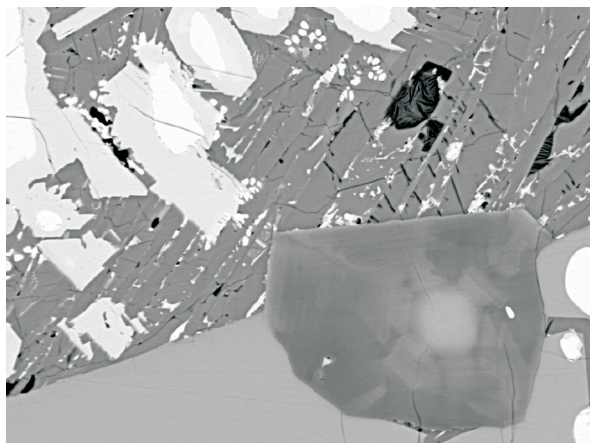
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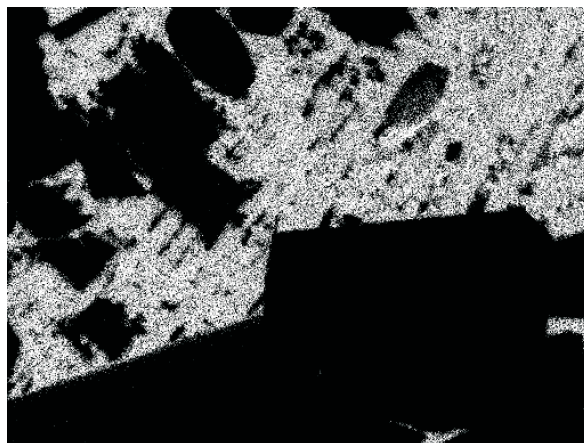
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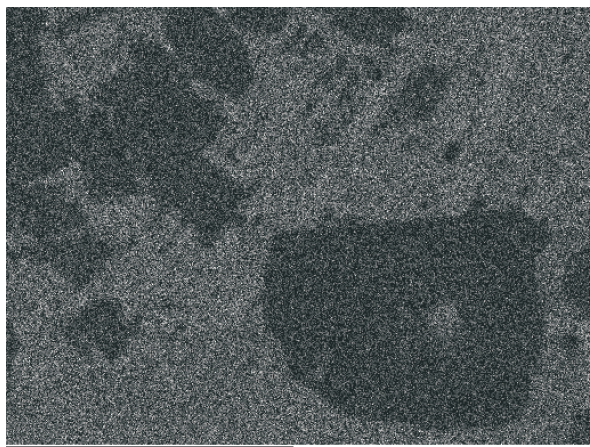
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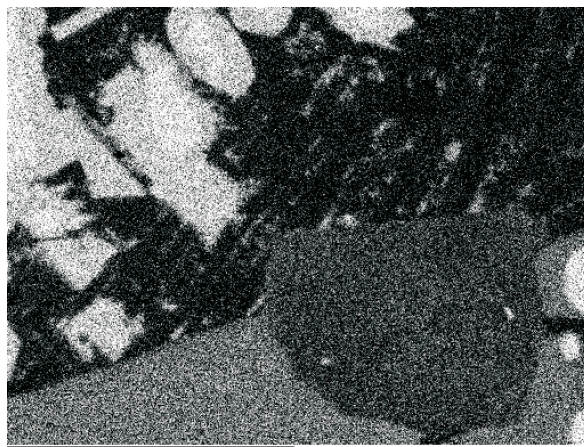
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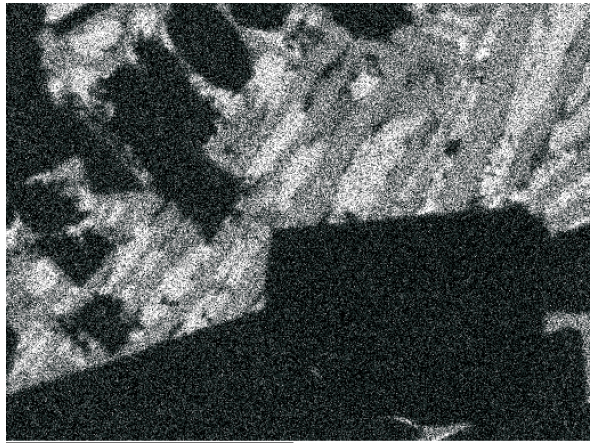
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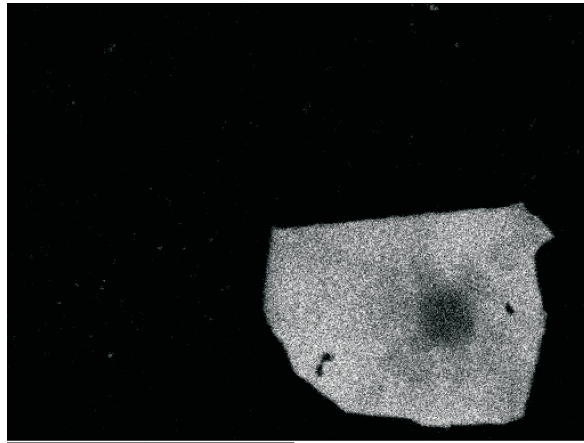
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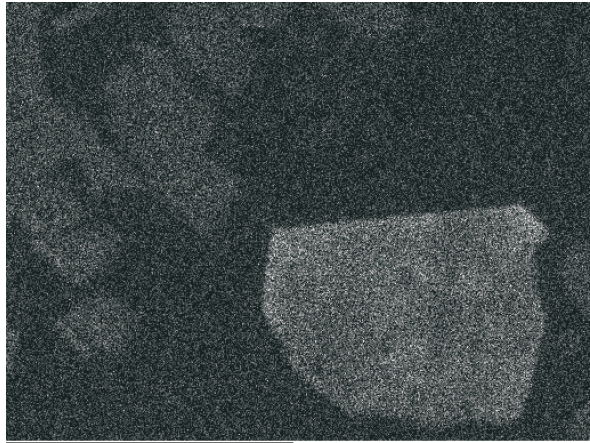
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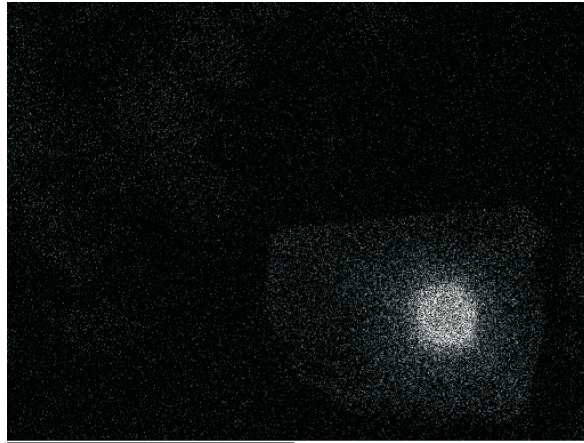
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g



h

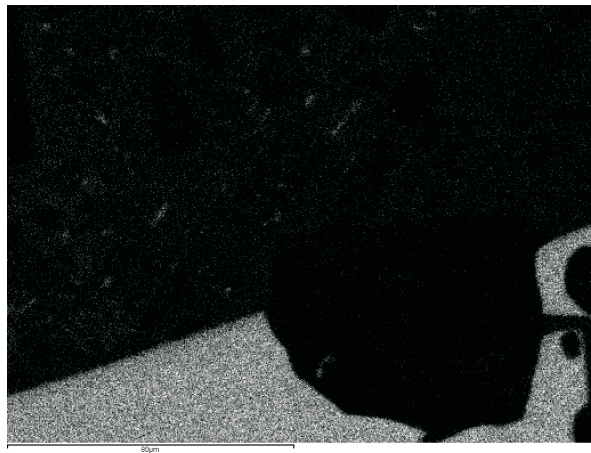


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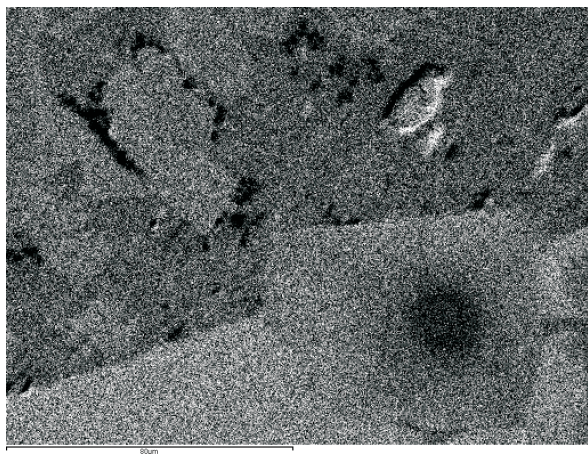


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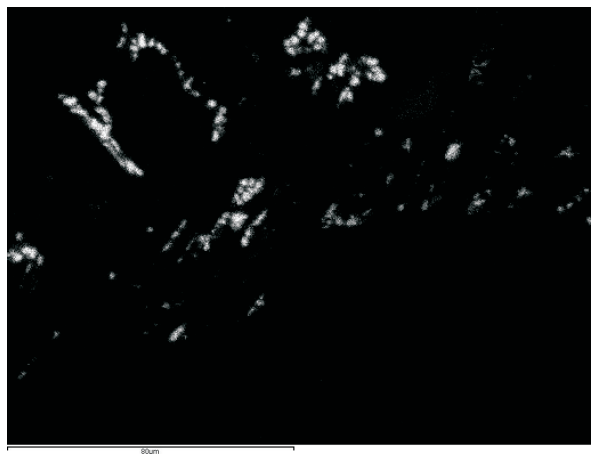
Plate C9



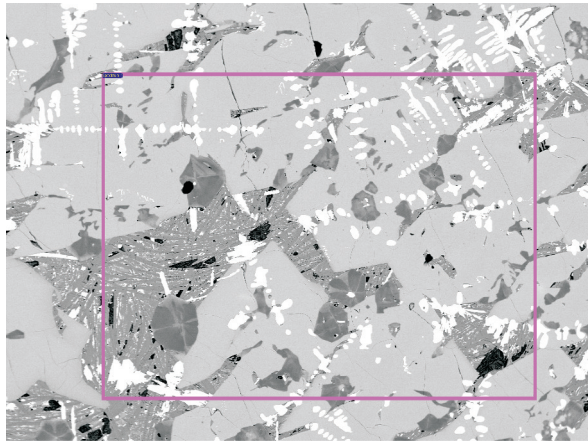
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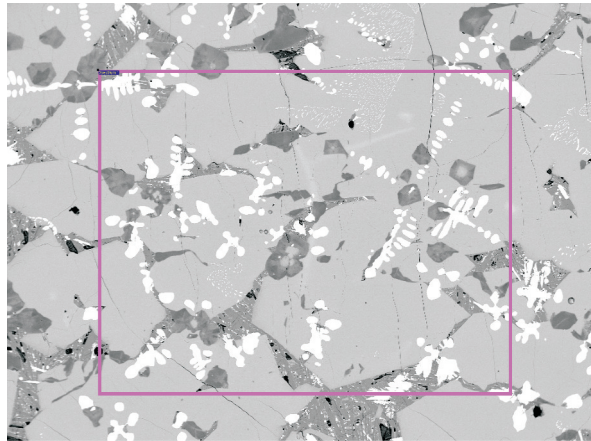
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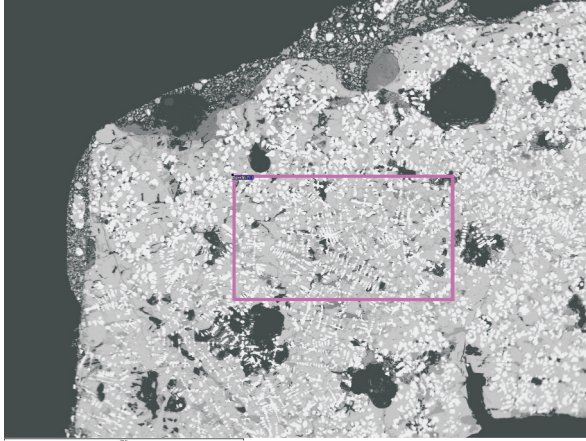
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f

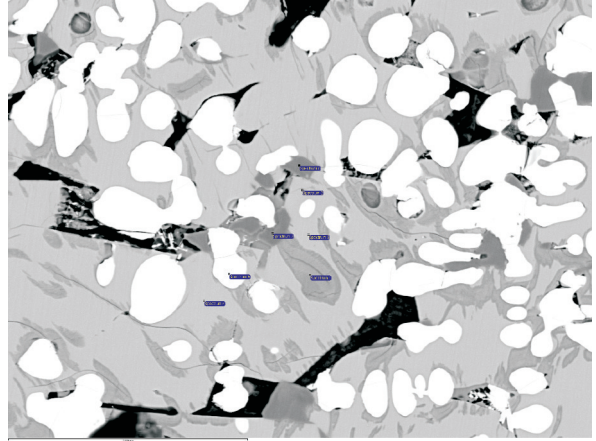


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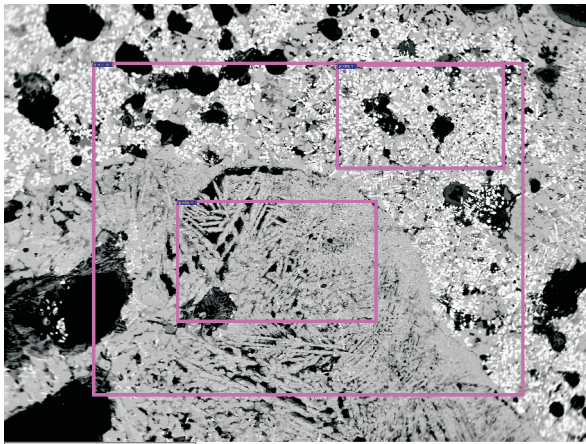


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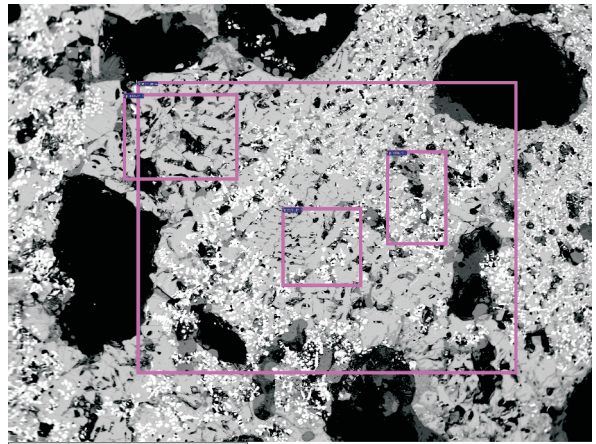
Plate C10



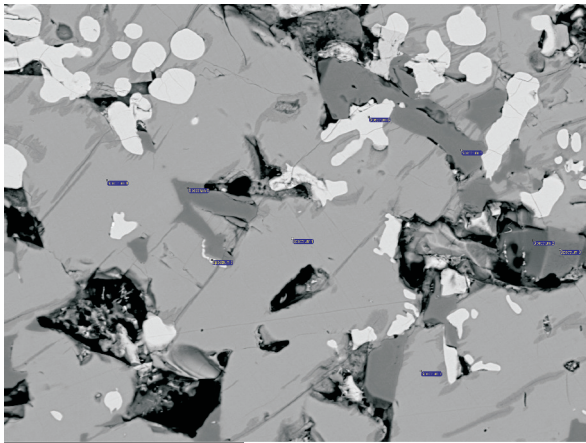
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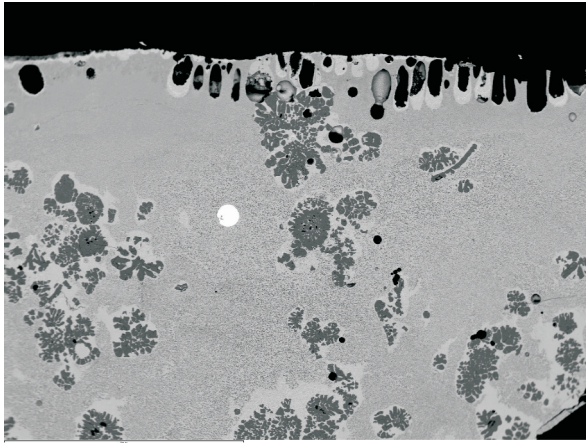
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e

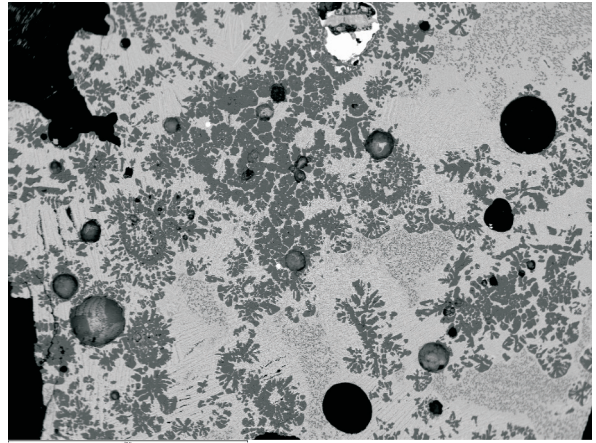


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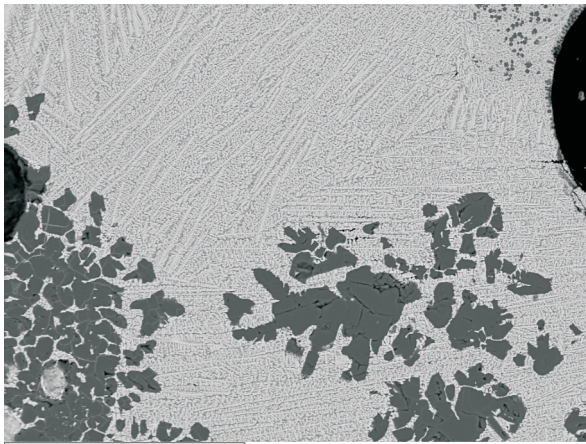


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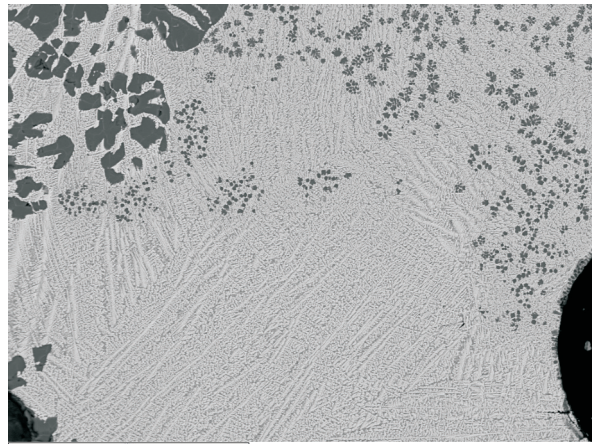
Plate C11



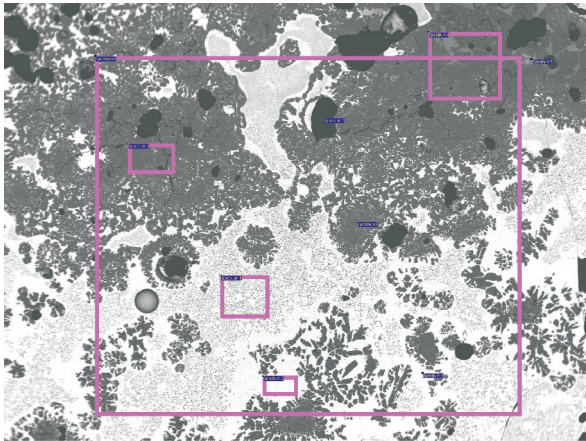
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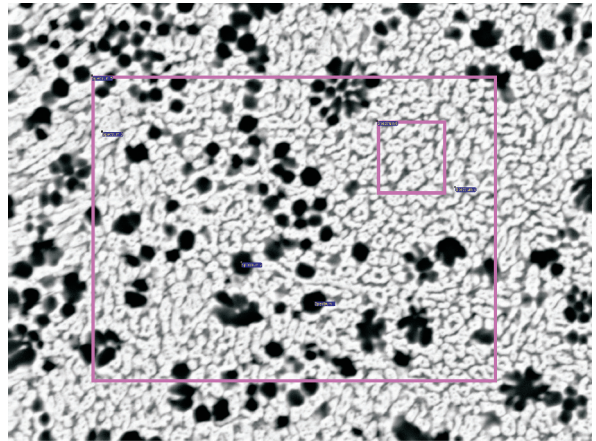
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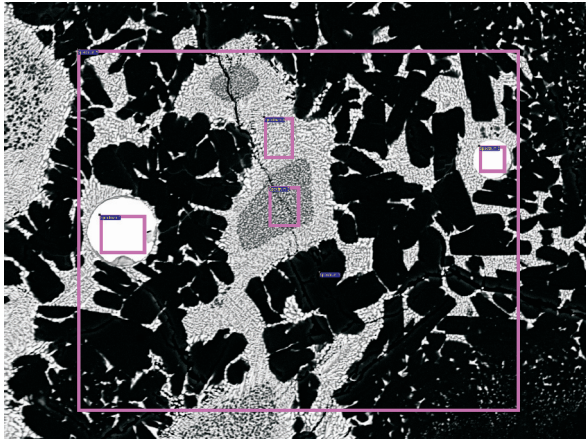
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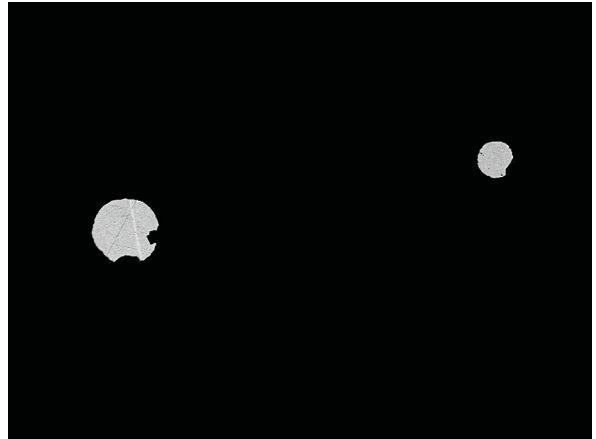
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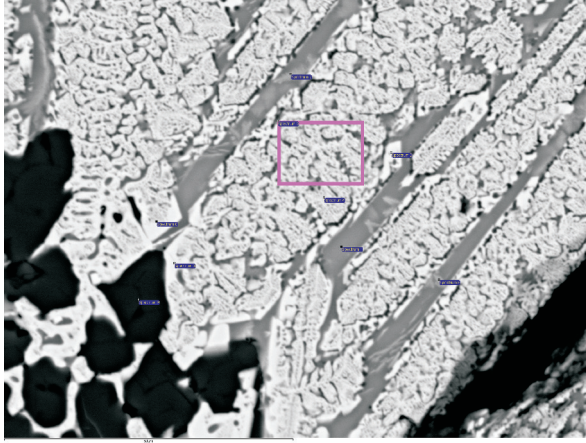
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h

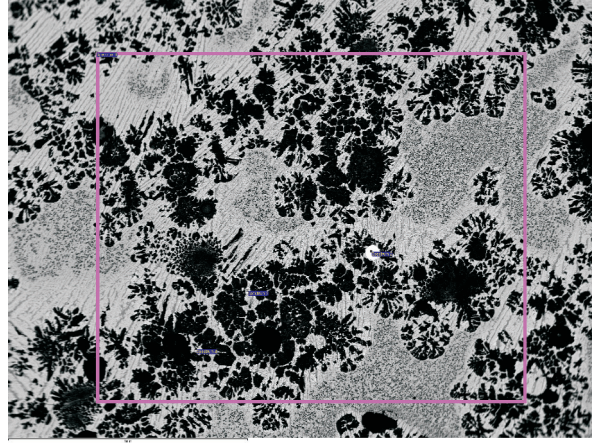


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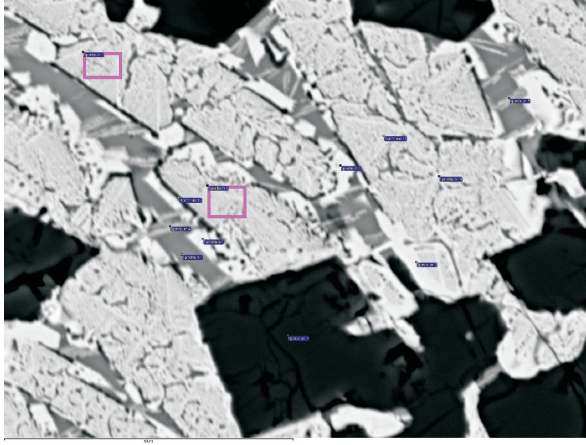


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Plate C12

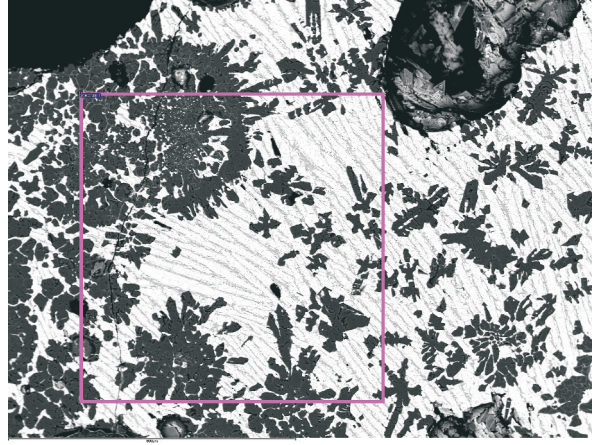


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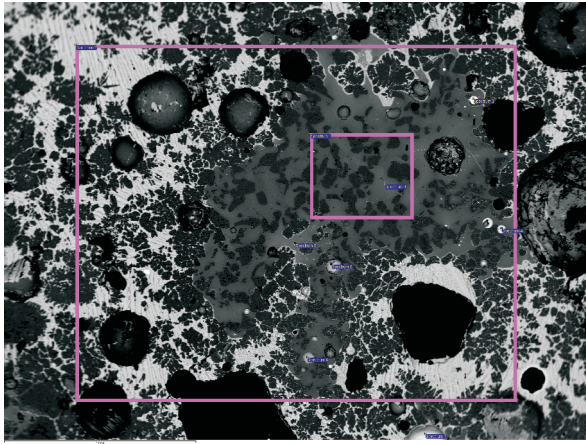


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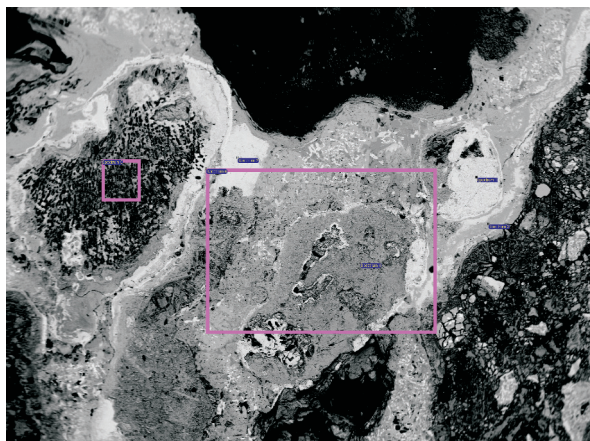
Plate C13



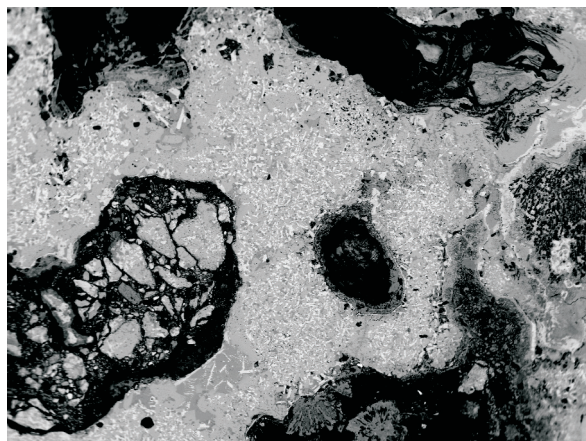
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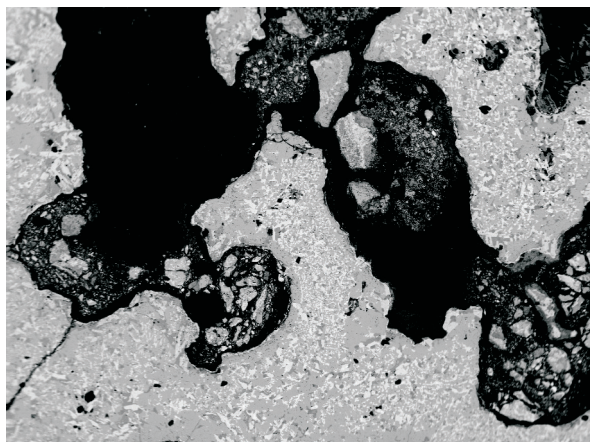
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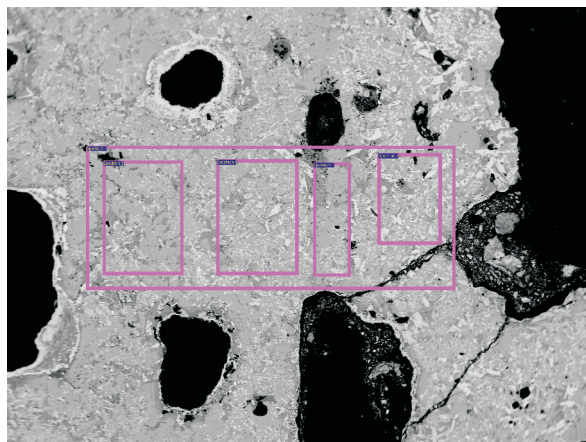
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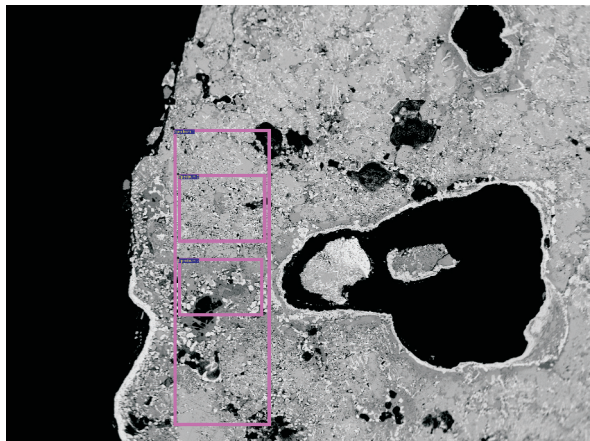
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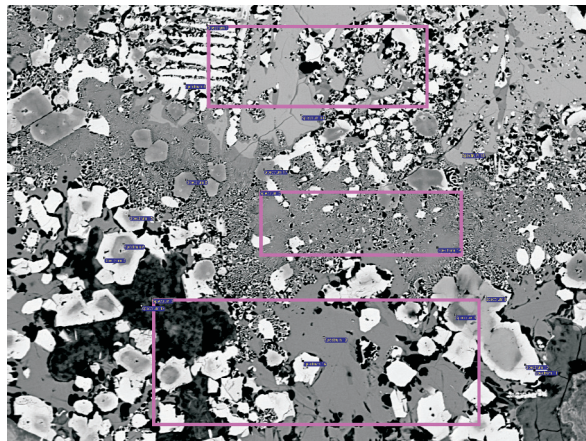
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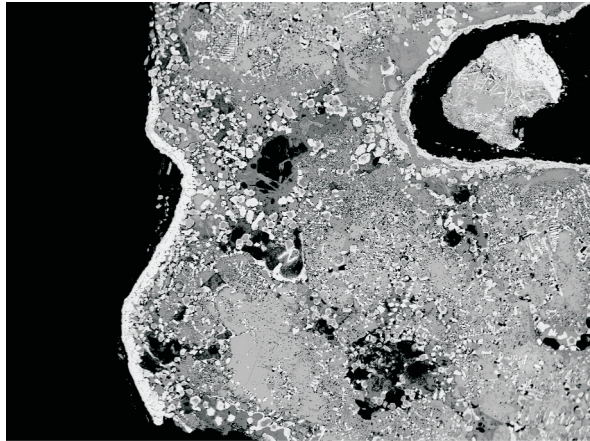
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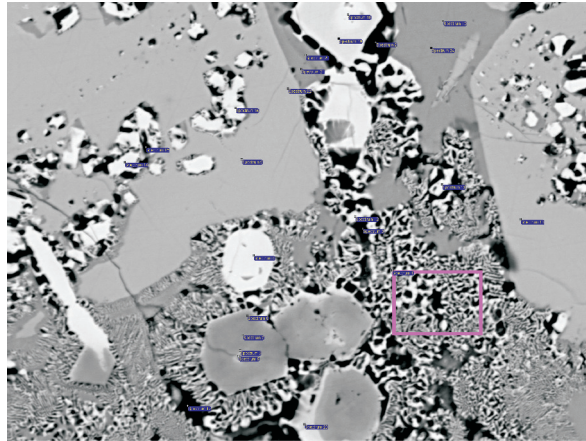
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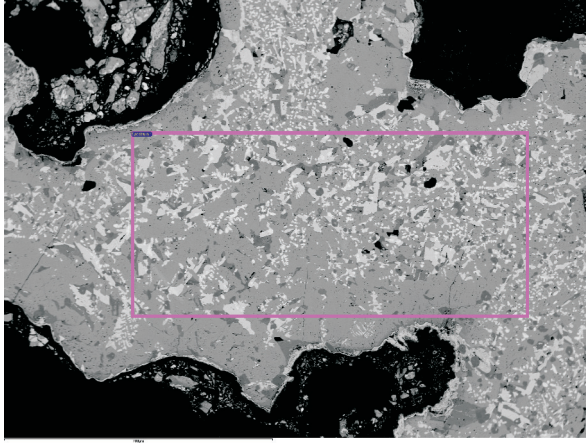
g



h

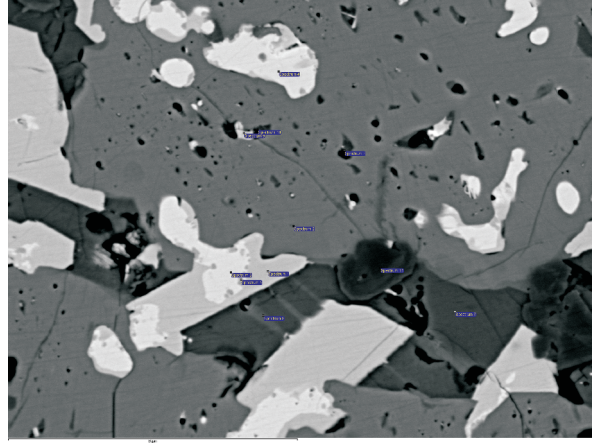


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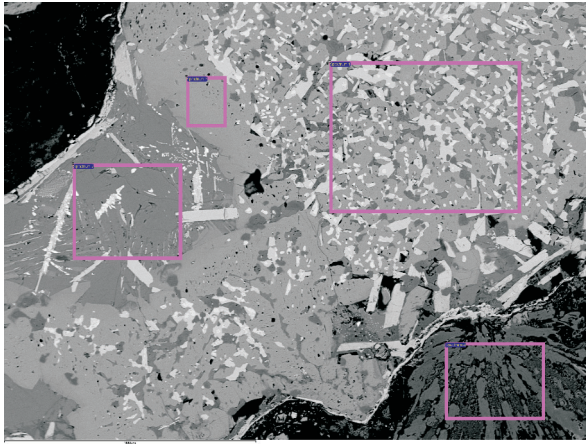


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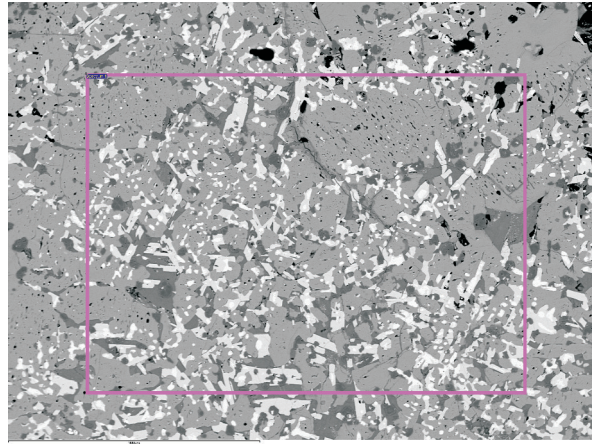
Plate C15



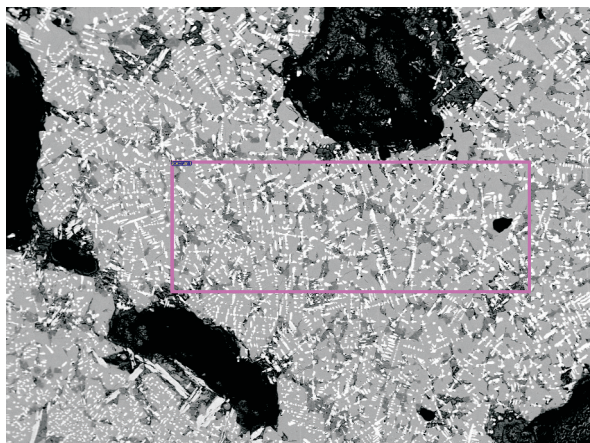
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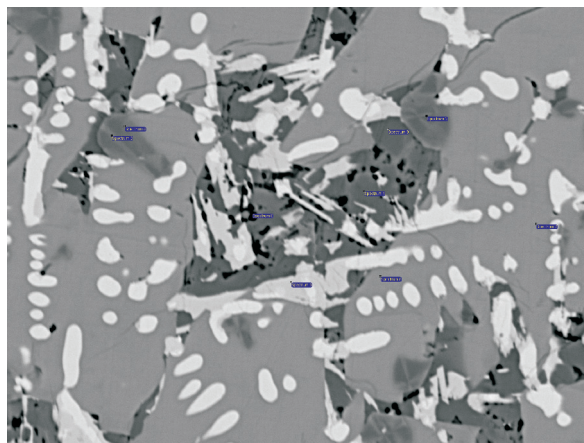
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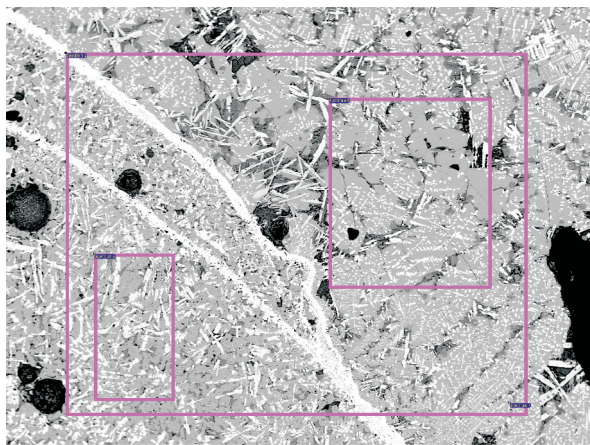
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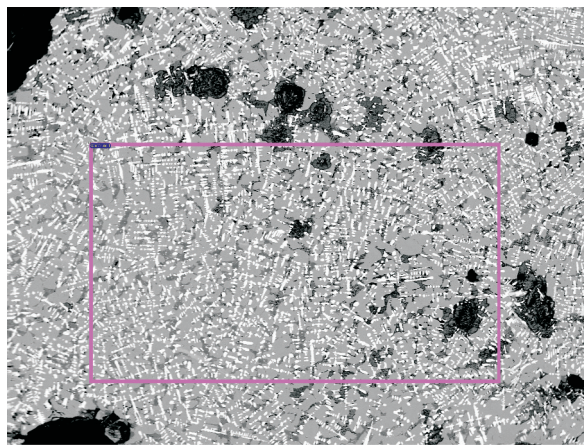
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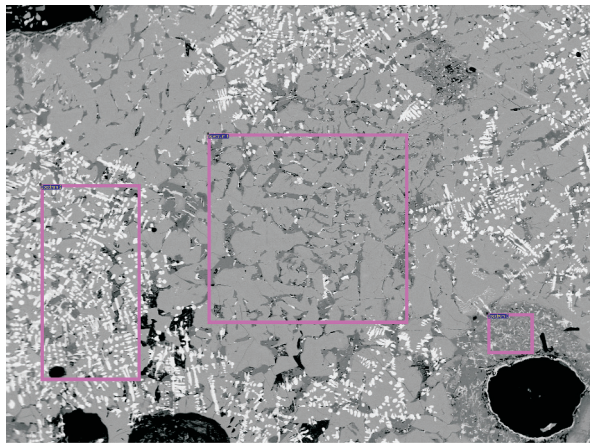
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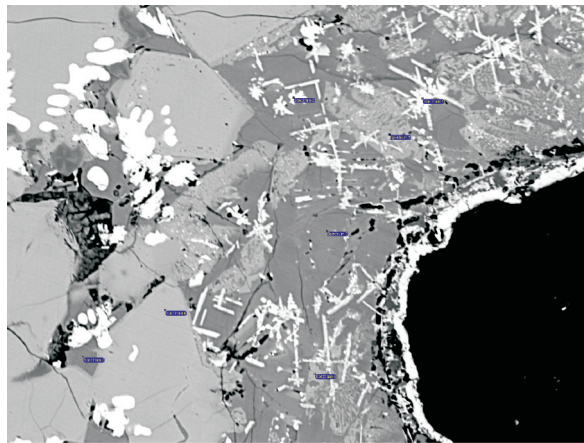
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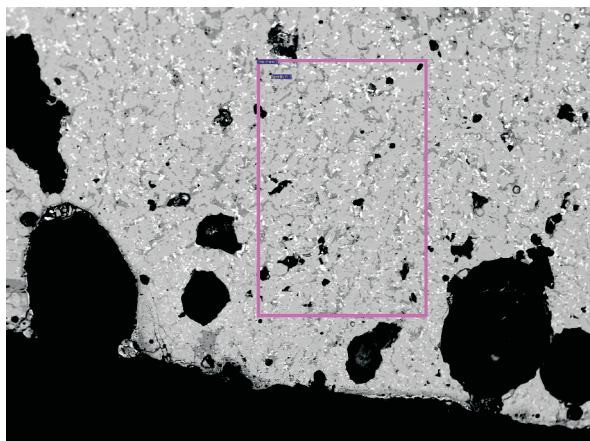
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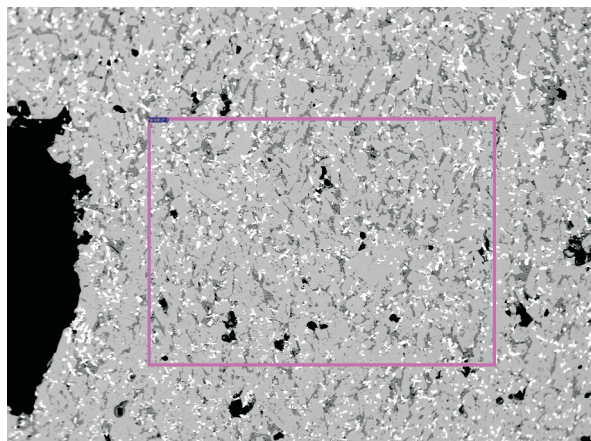
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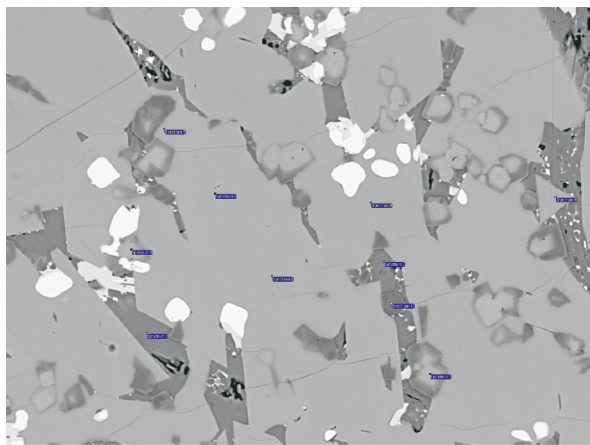
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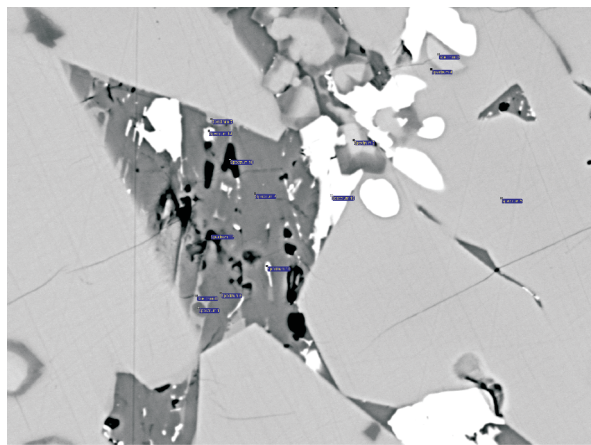
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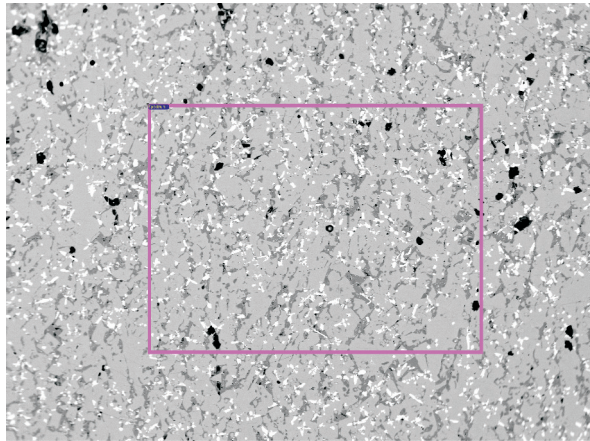
c



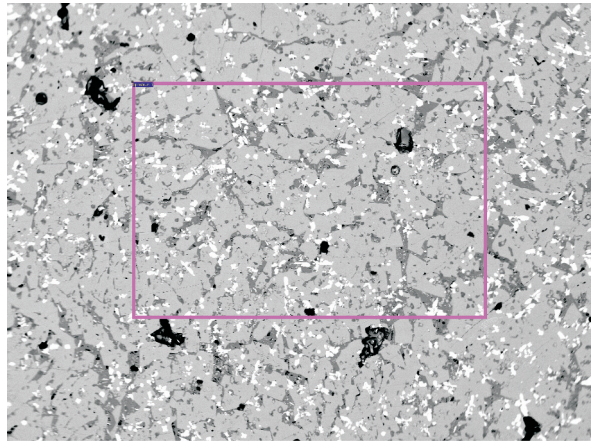
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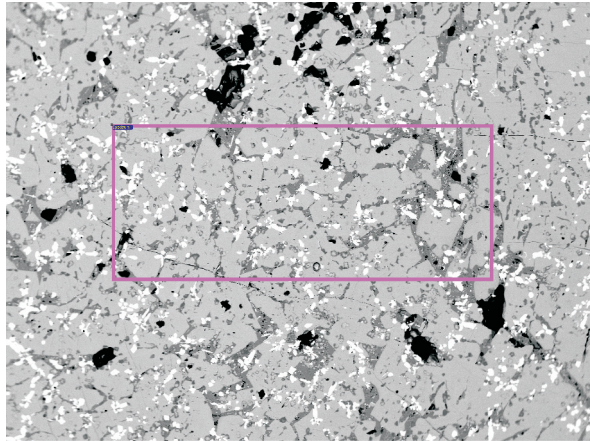
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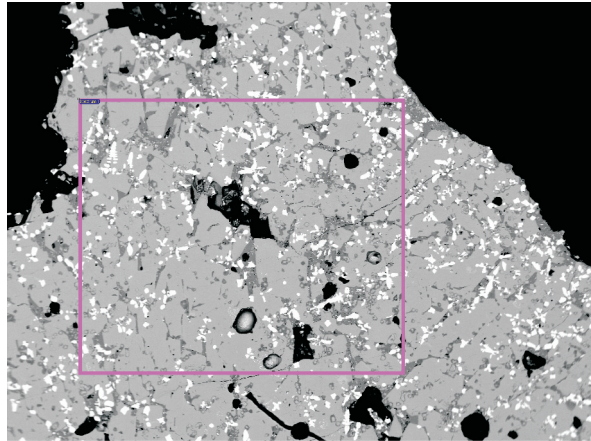
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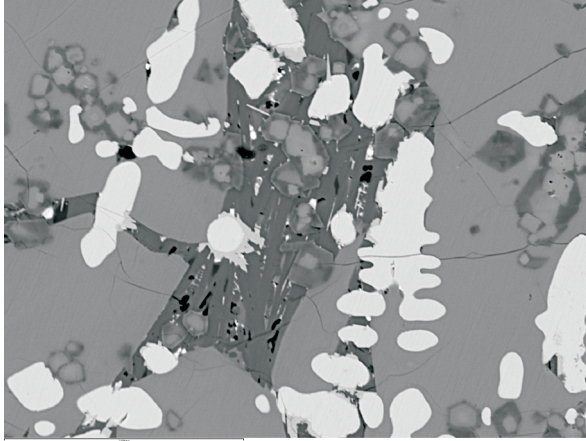
g



h

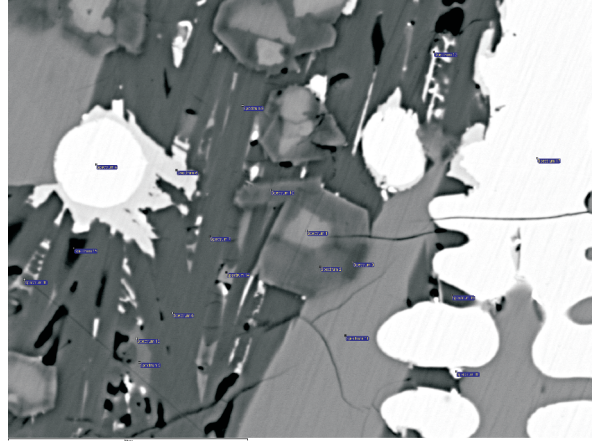


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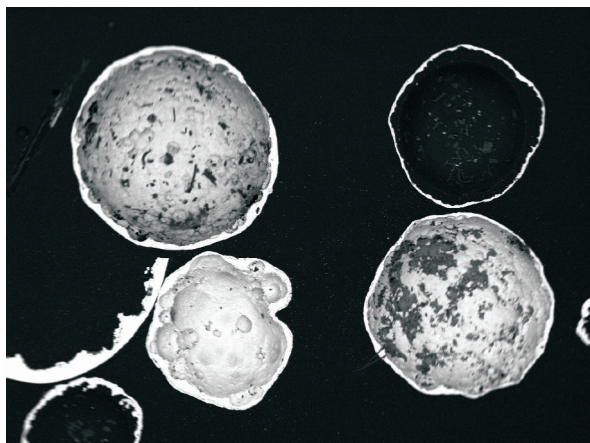


b

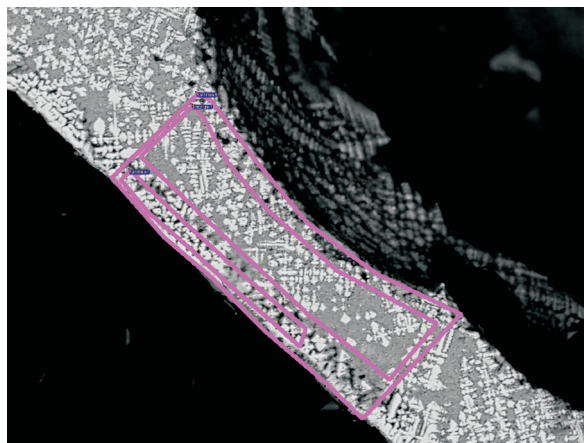
Plate C18



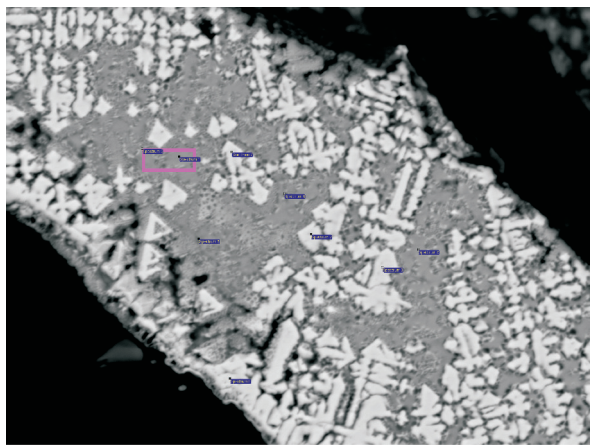
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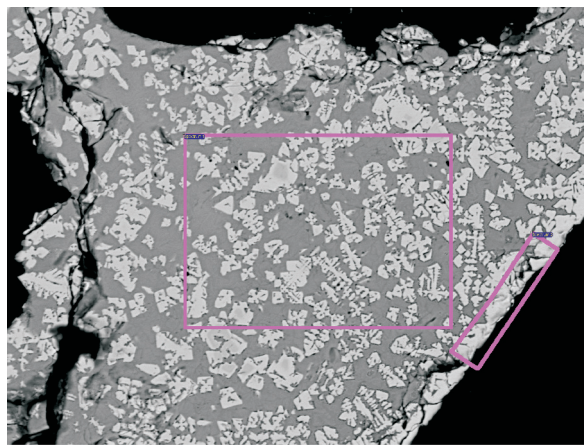
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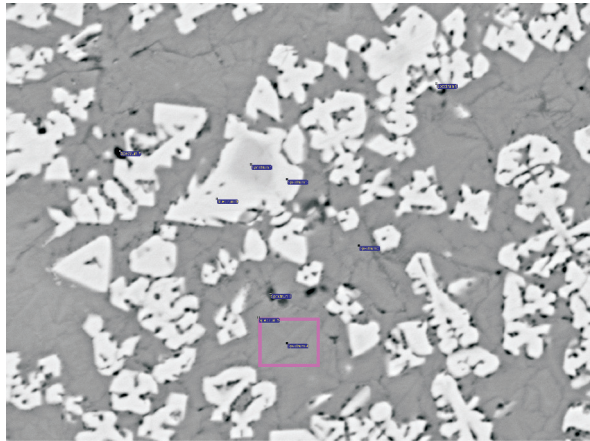
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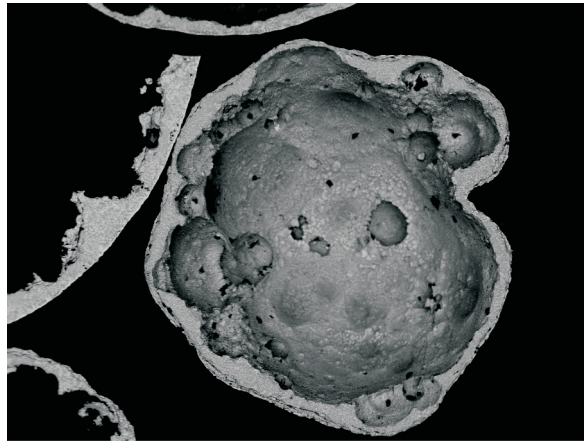
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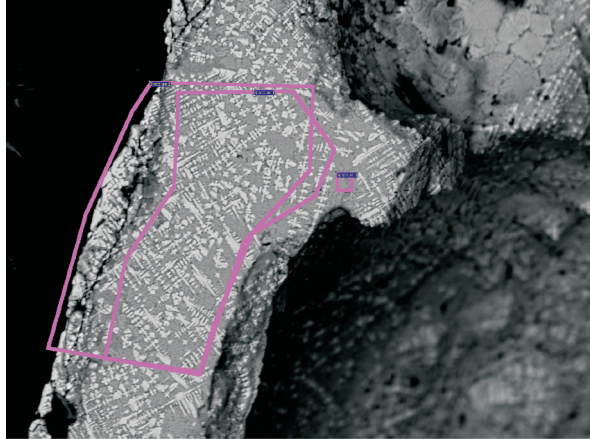
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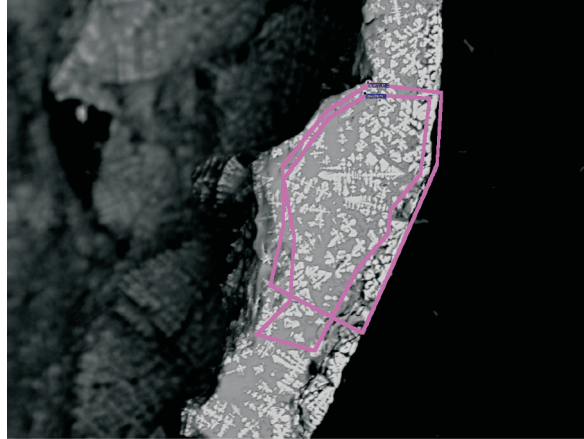
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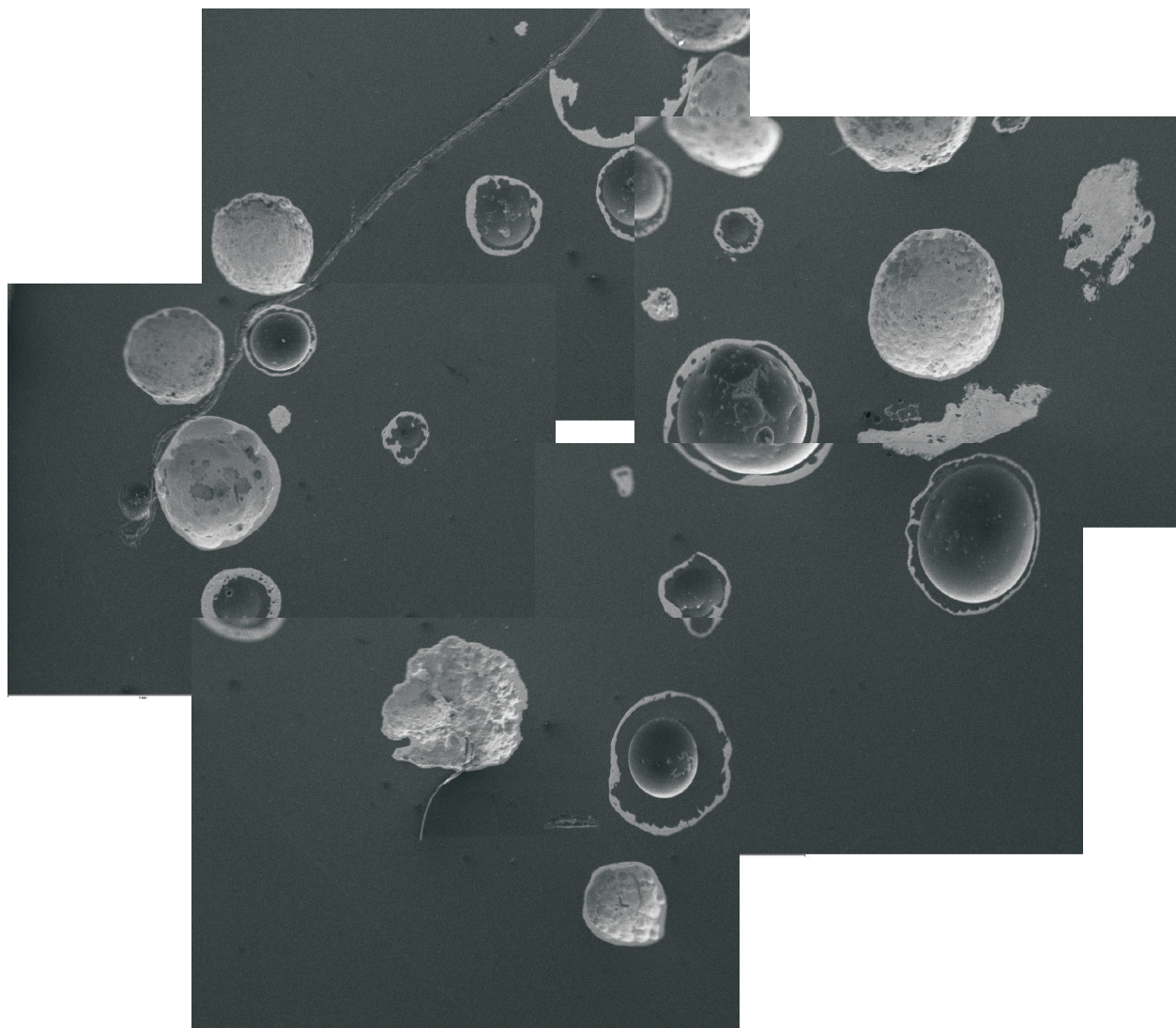


g



h

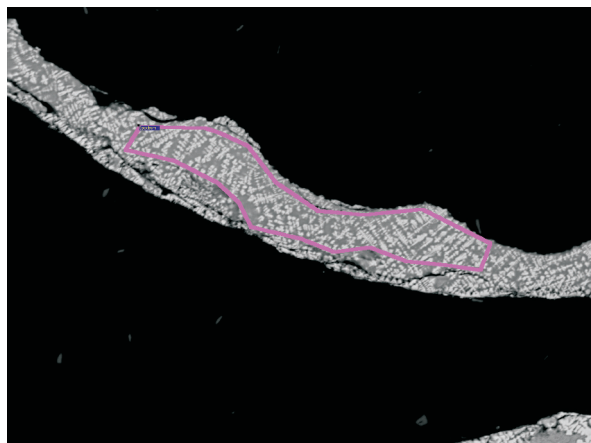




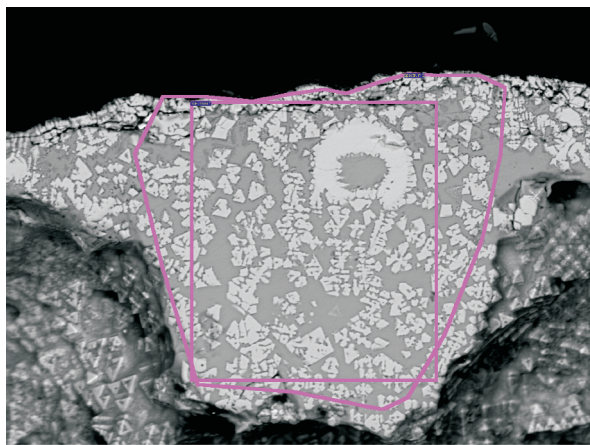
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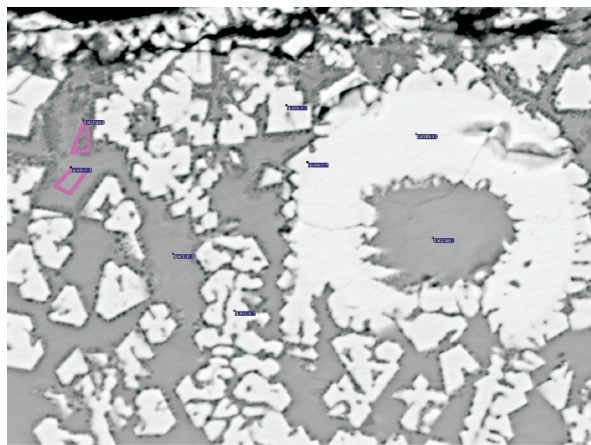
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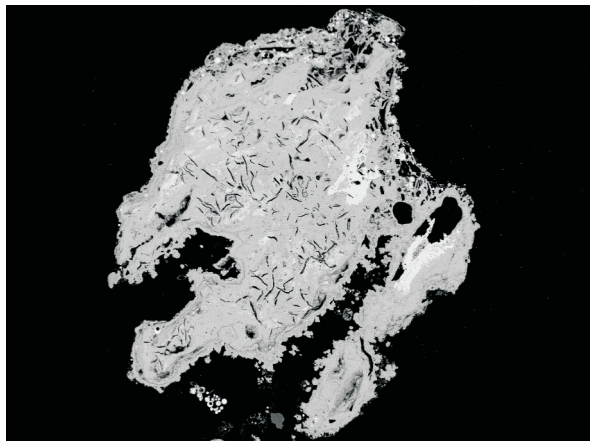
c



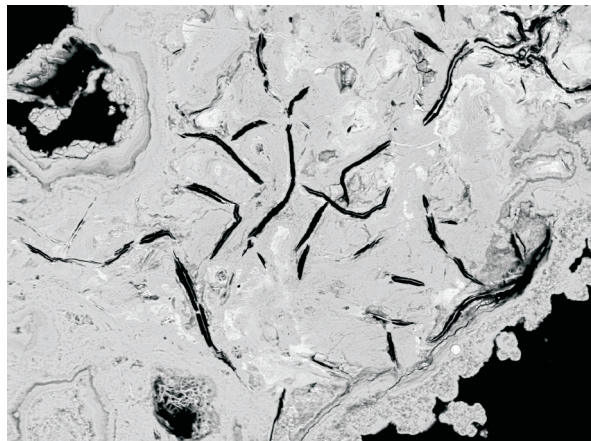
d



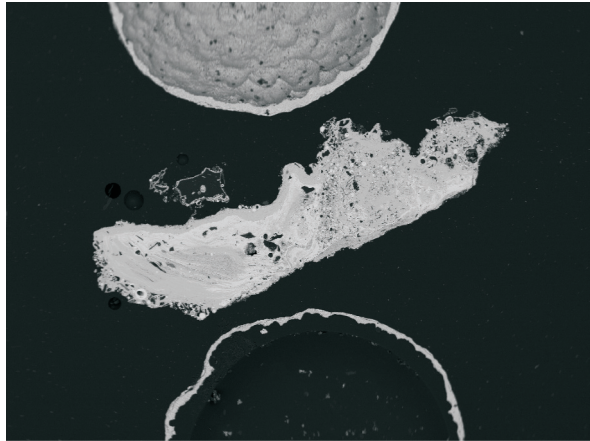
e



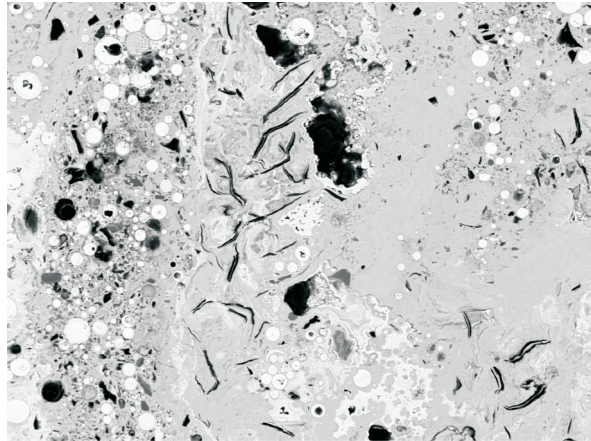
f



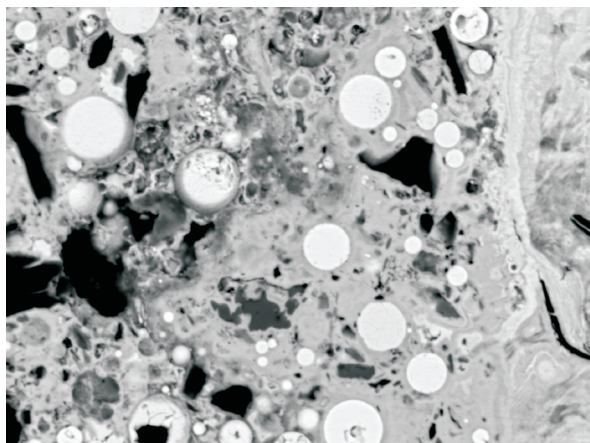
g



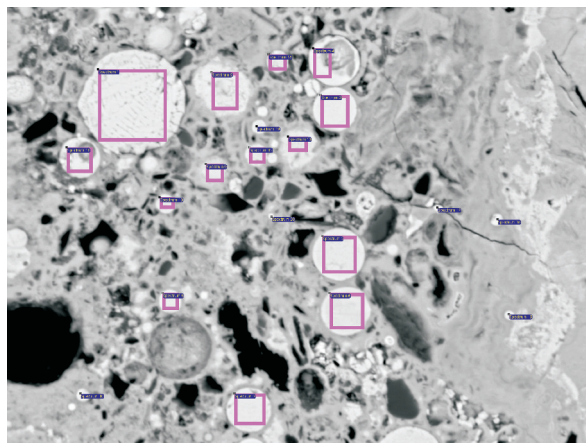
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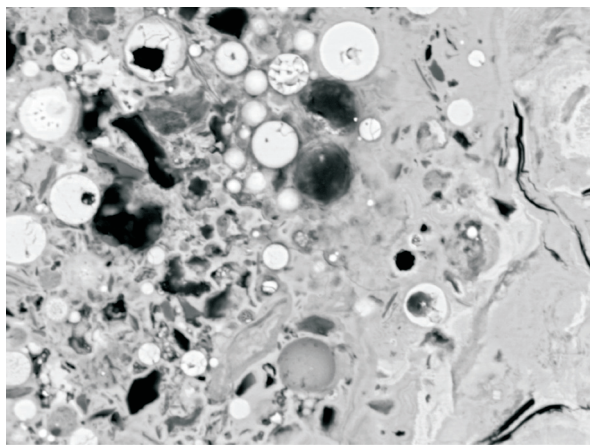
a



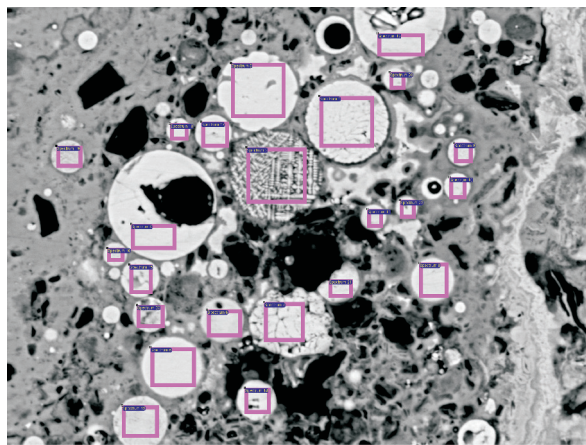
b



c



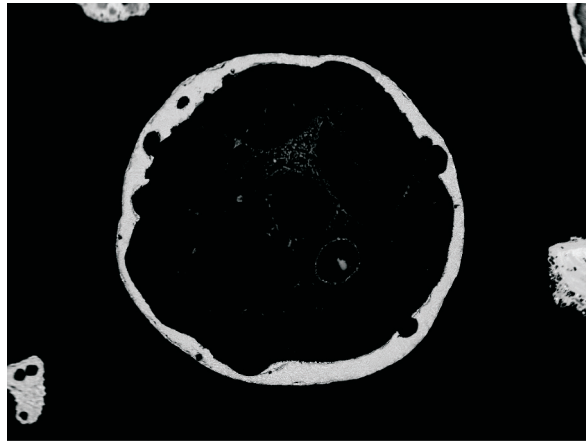
d



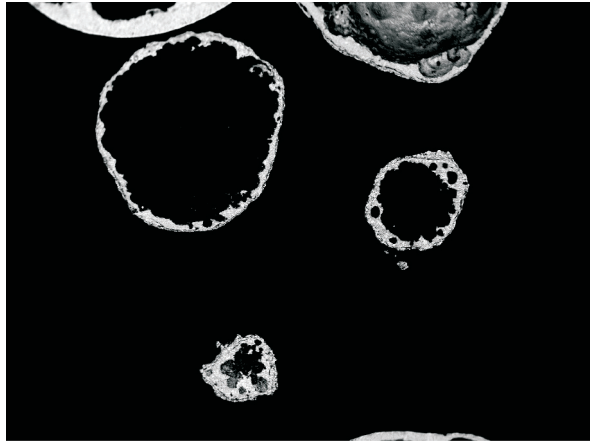
e



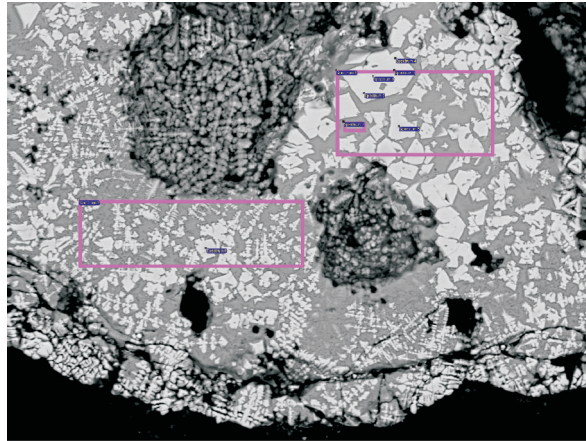
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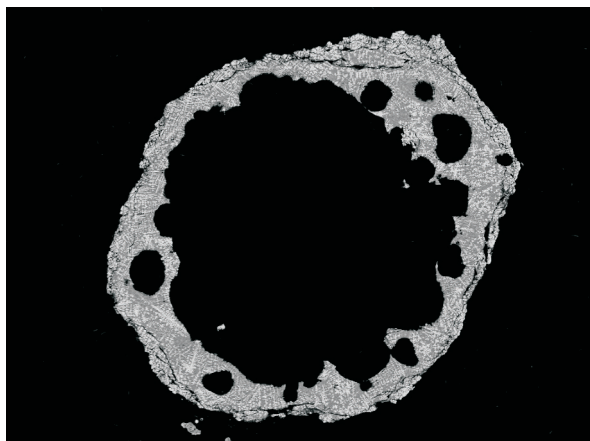
g



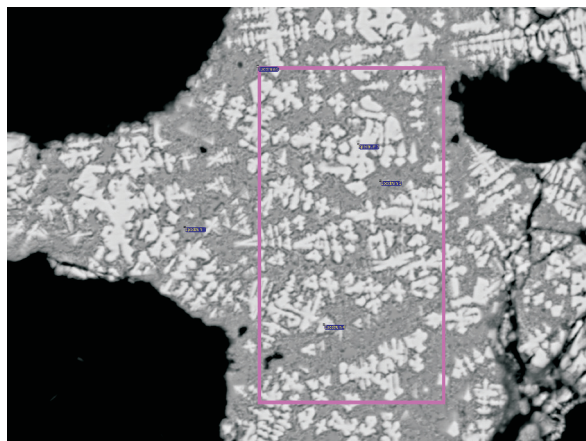
h



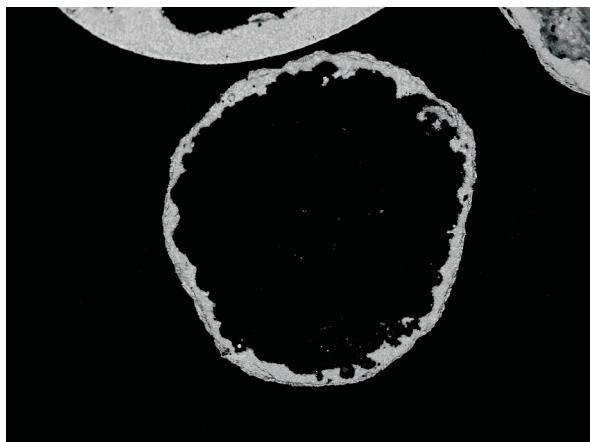
a



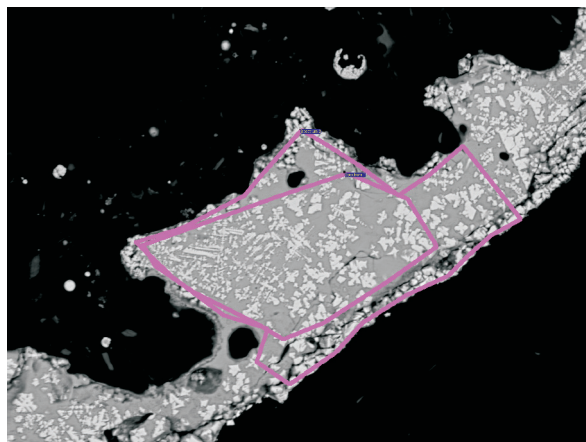
b



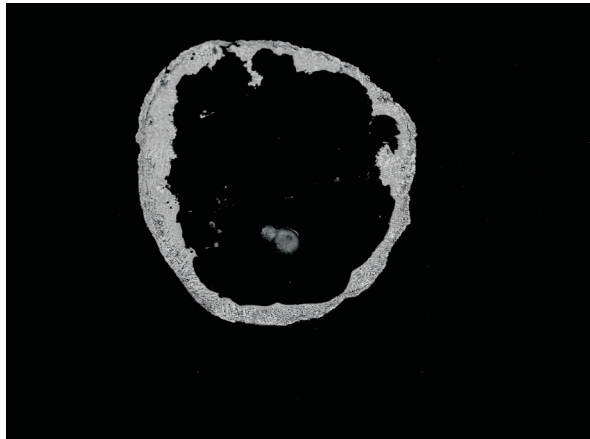
c



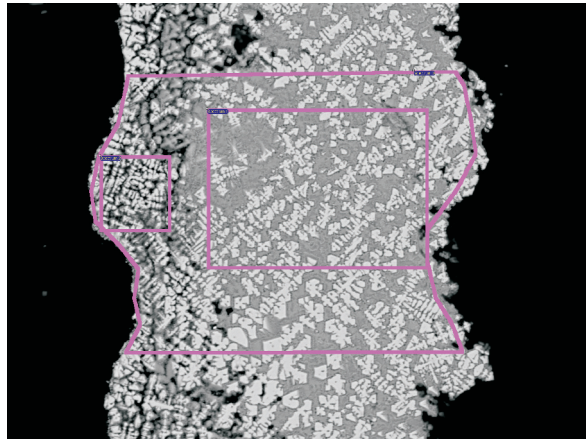
d



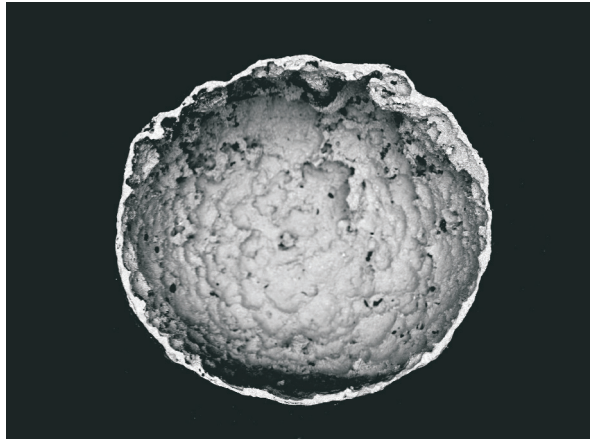
e



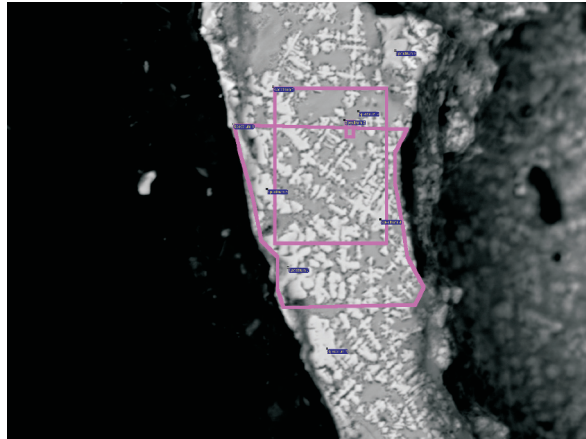
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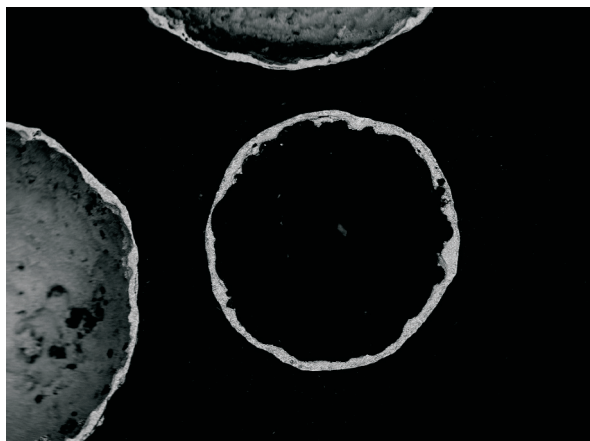
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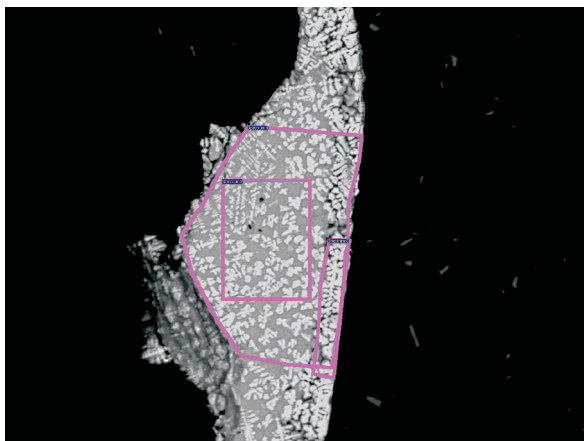
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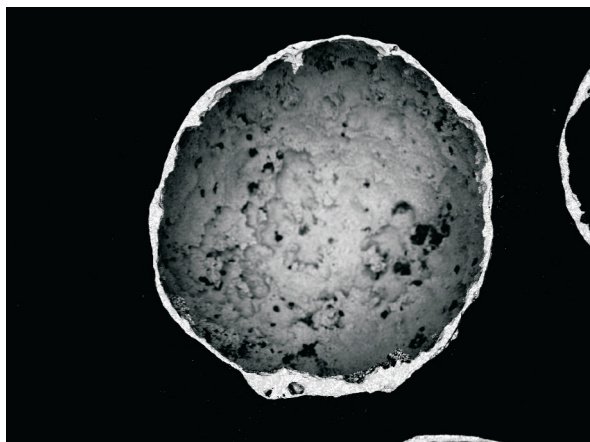
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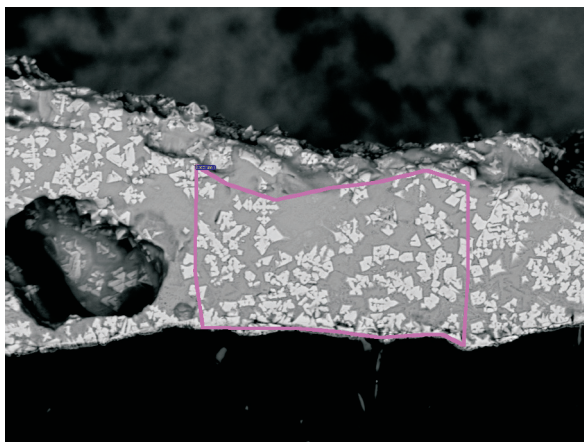
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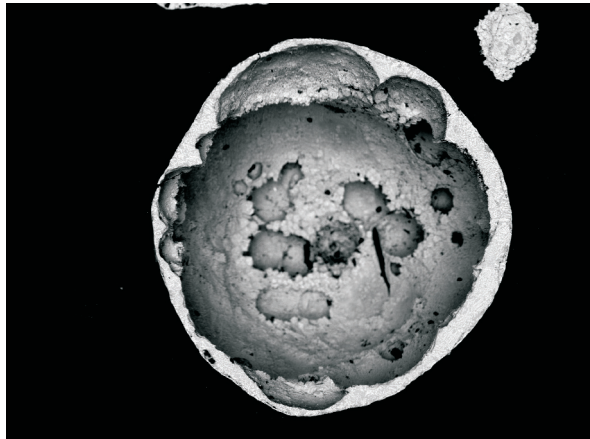
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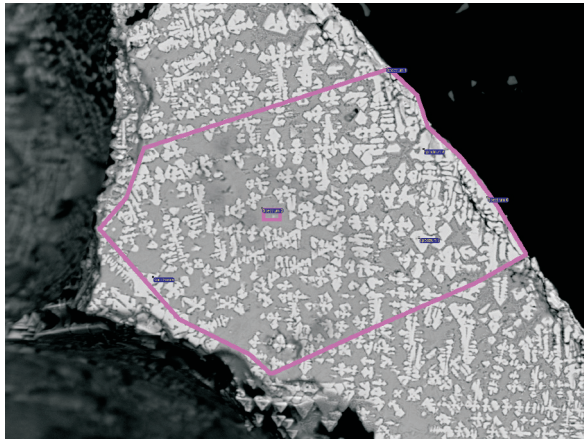
d



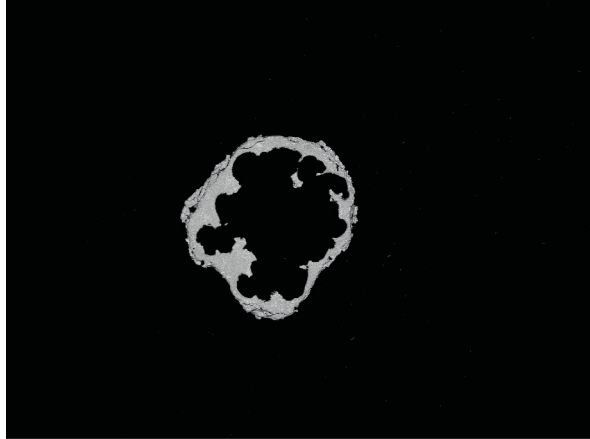
e



f



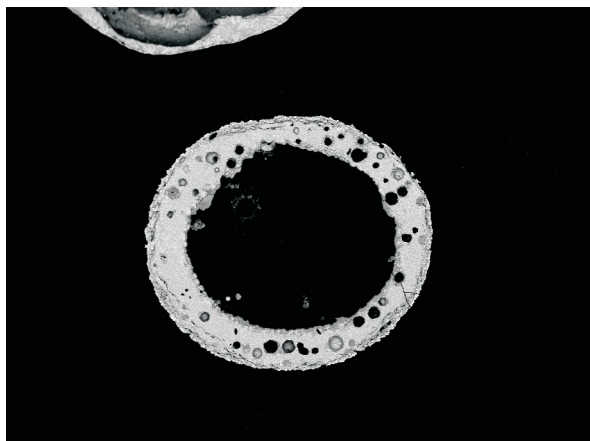
g



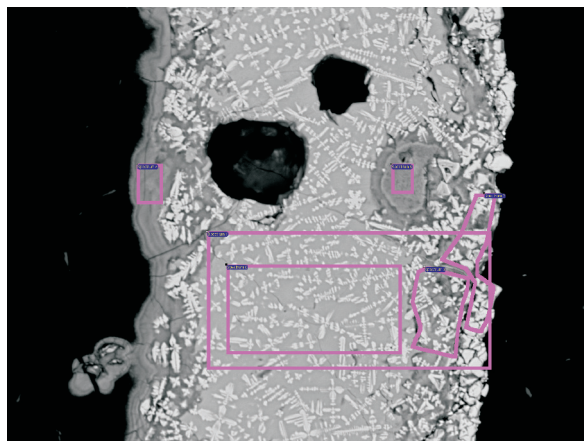
h



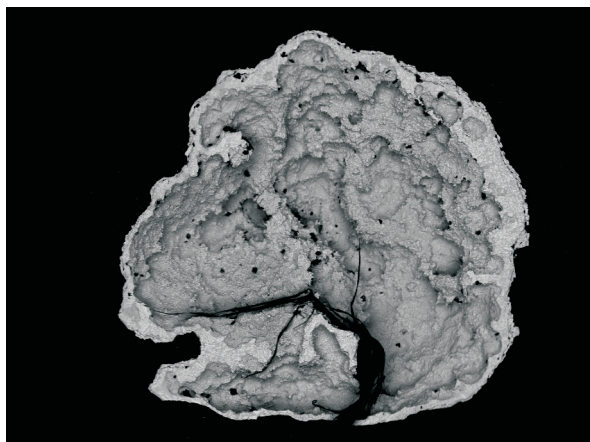
a



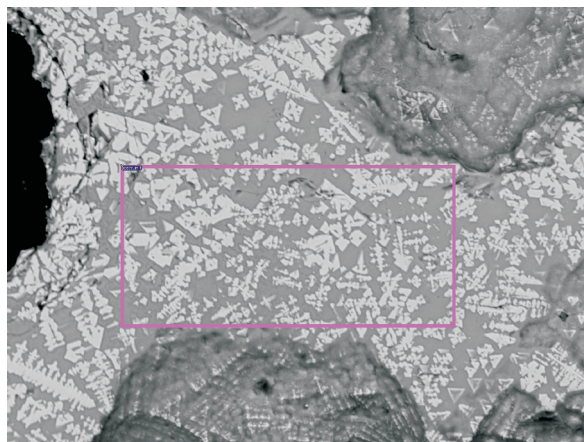
b



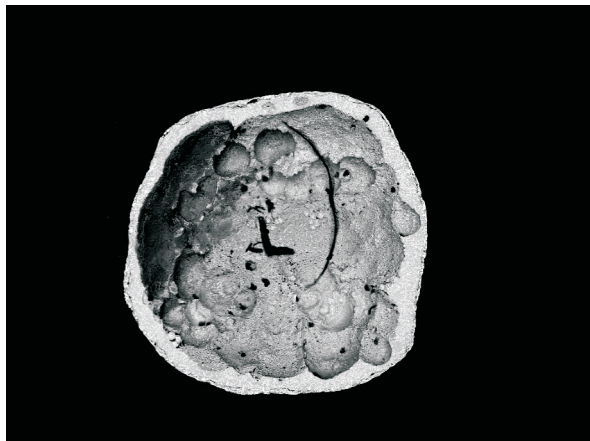
c



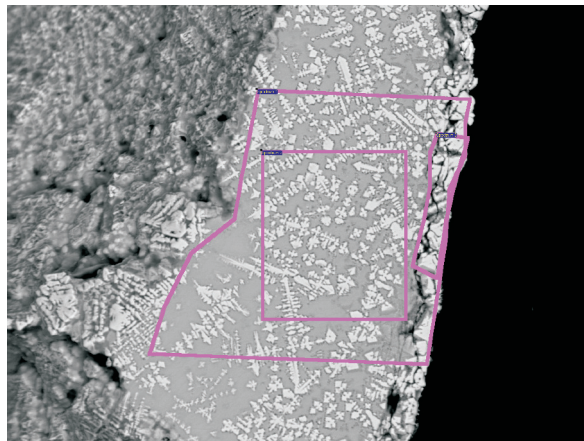
d



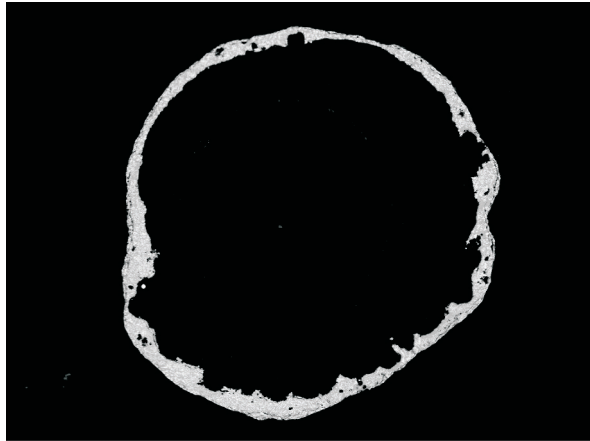
e



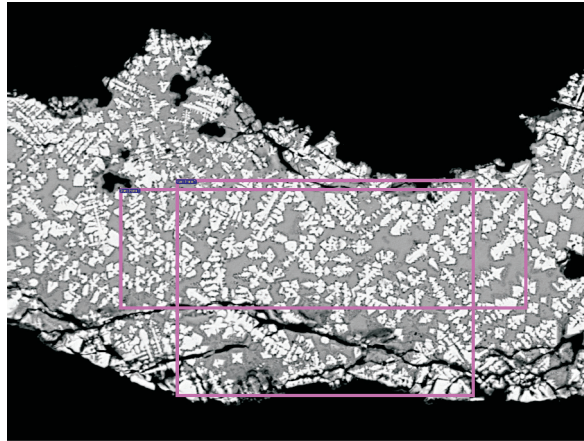
f



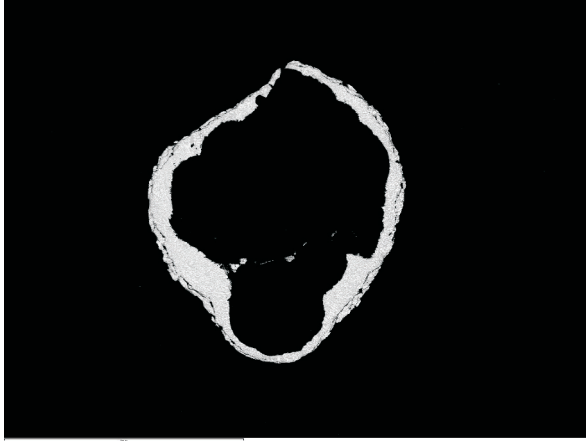
g



h

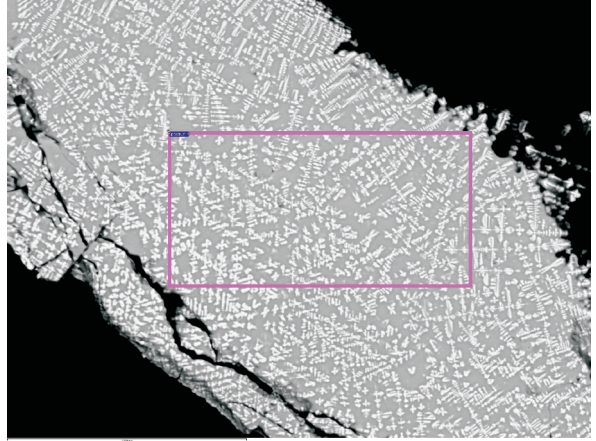


a

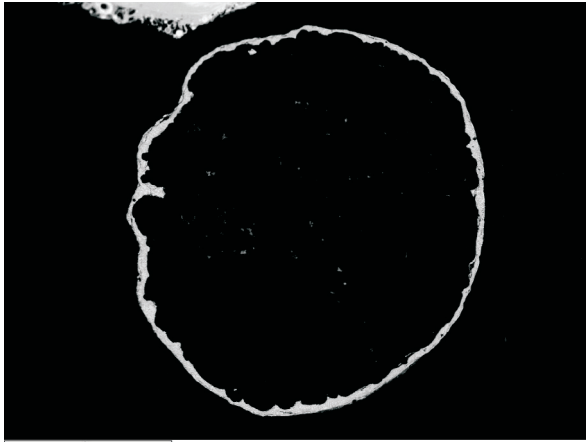


b

Plate C26



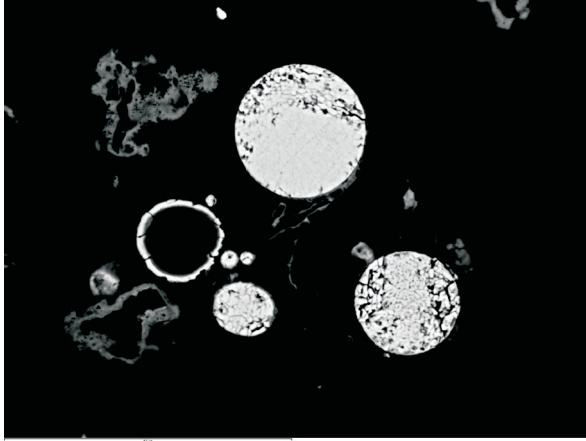
c



d

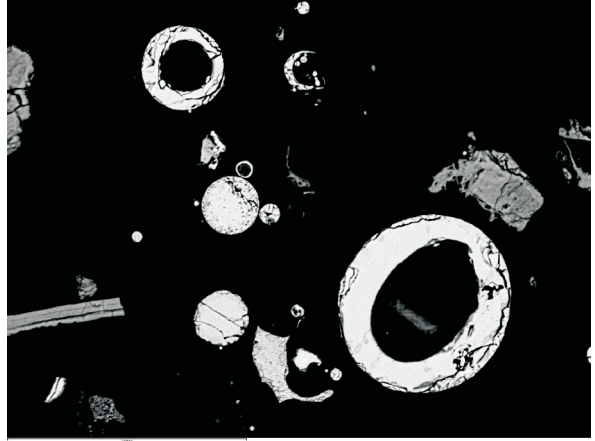


a

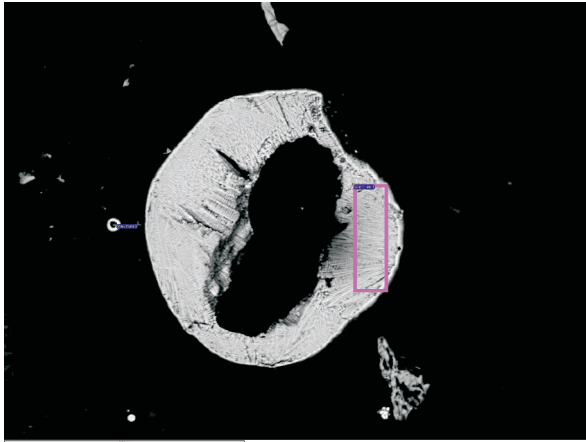


b

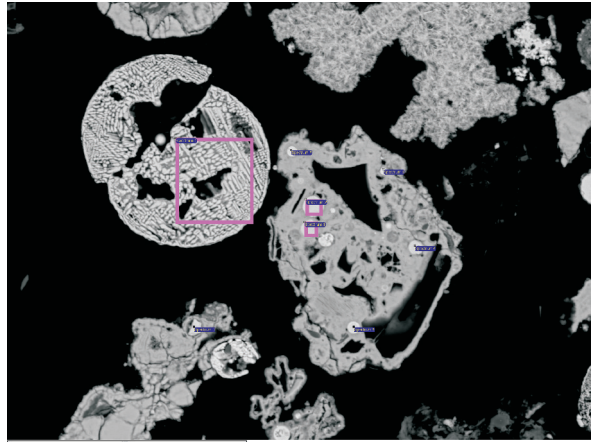
Plate C27



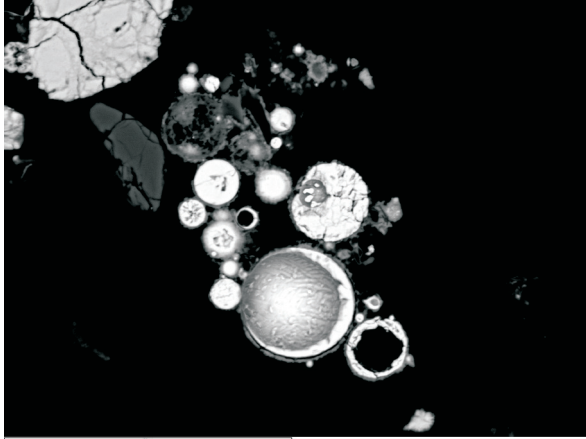
c



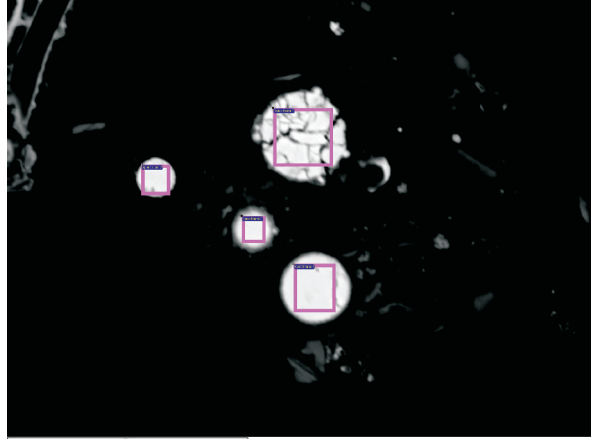
d



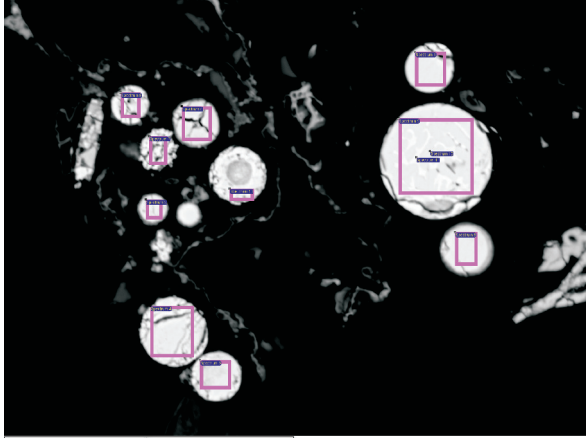
e

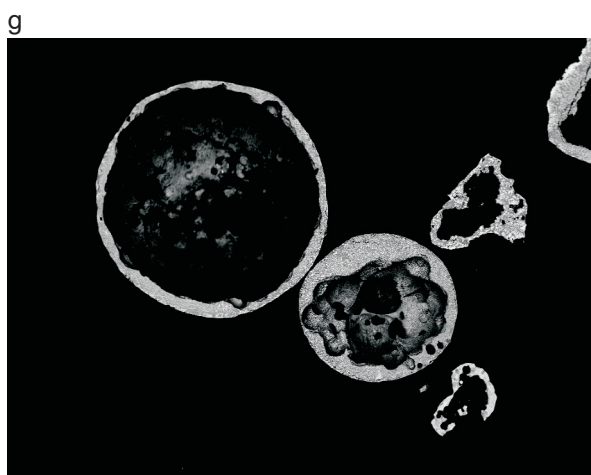
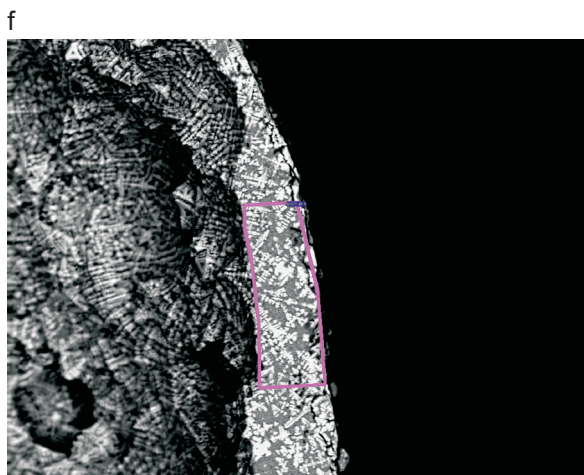
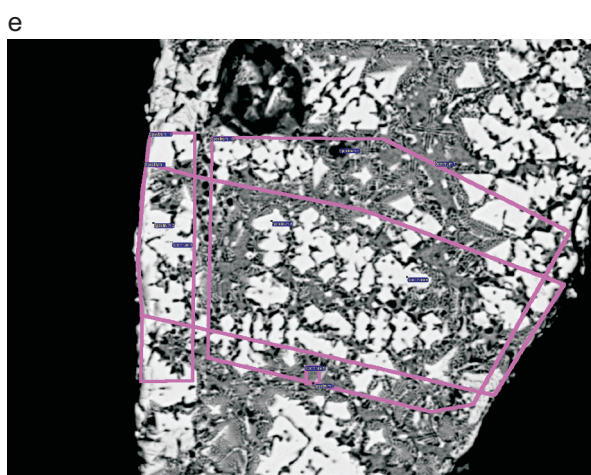
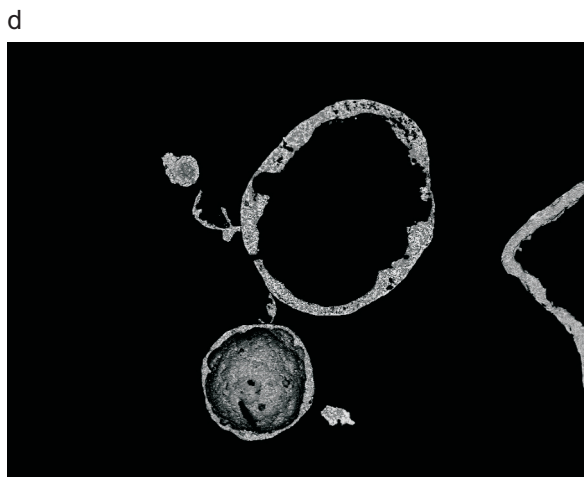
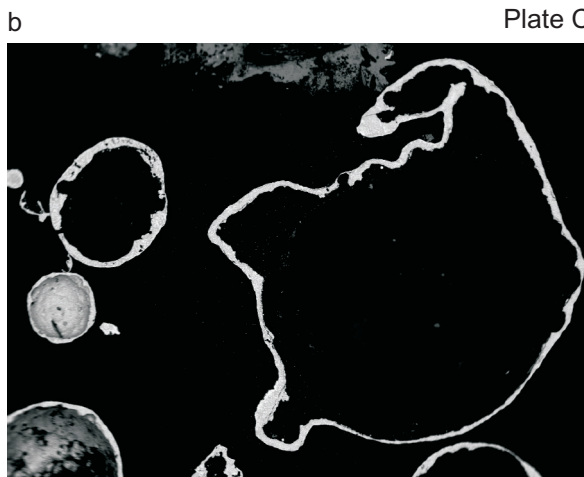
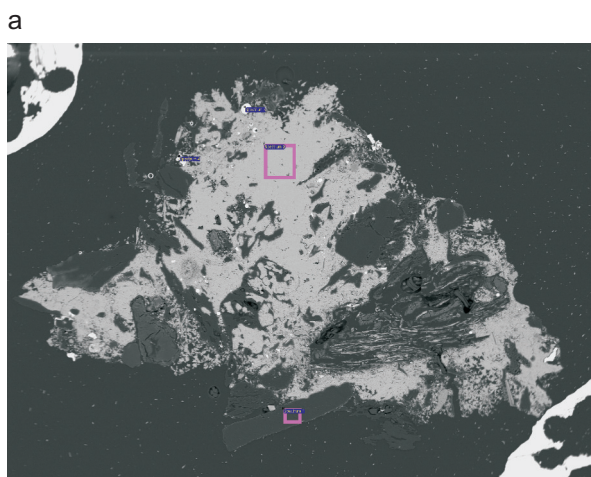


f

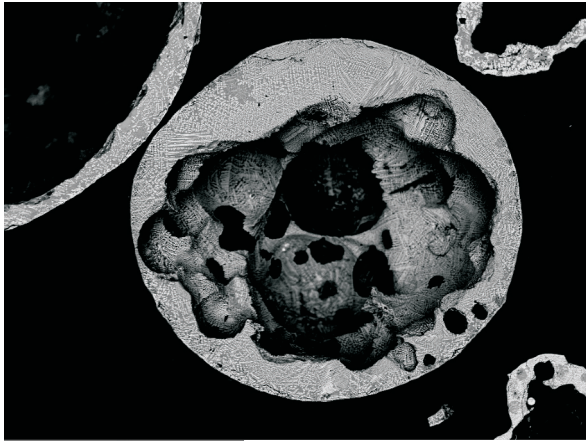


g



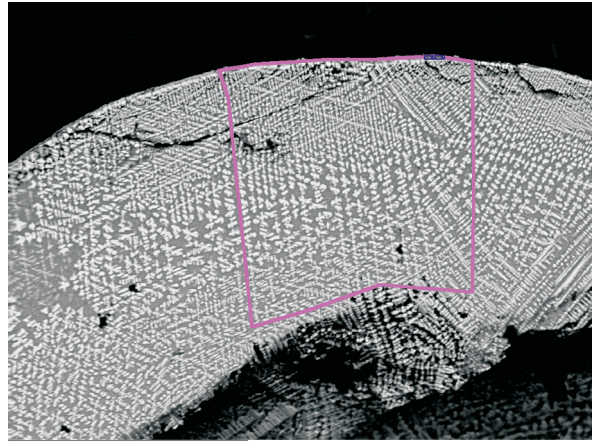


a

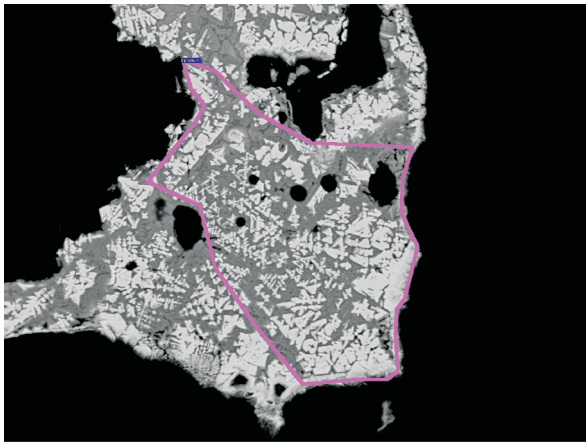


b

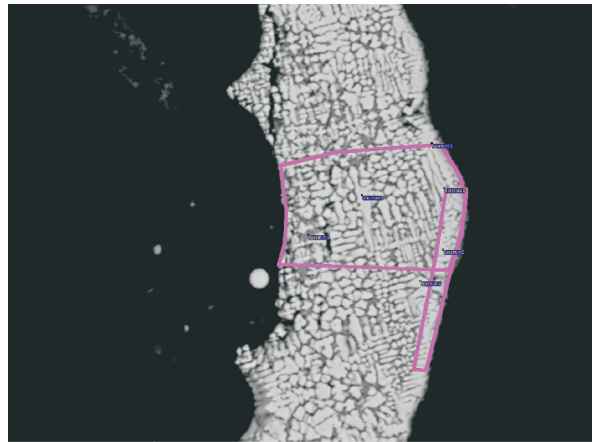
Plate C29



c



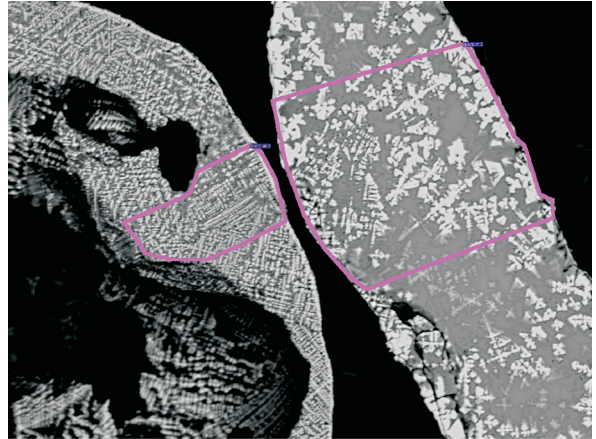
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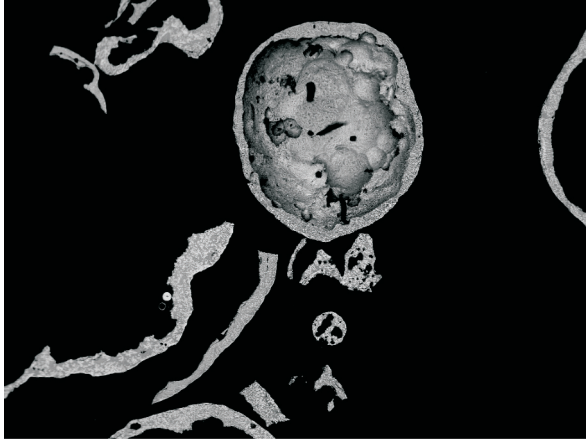
e



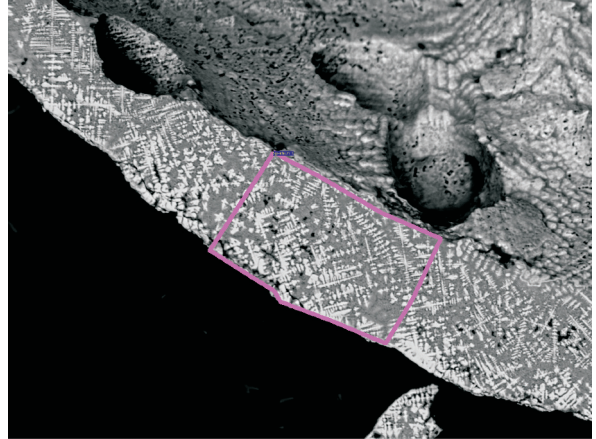
f



g



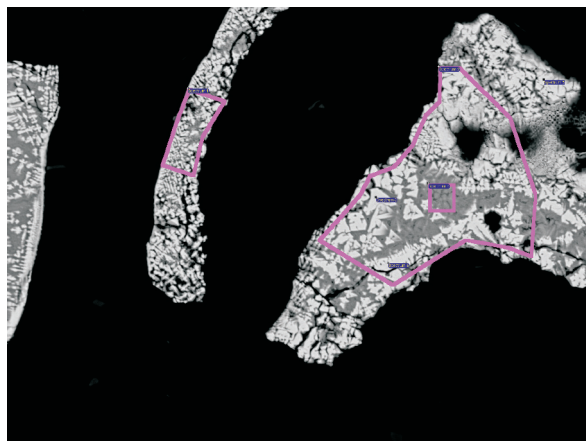
h



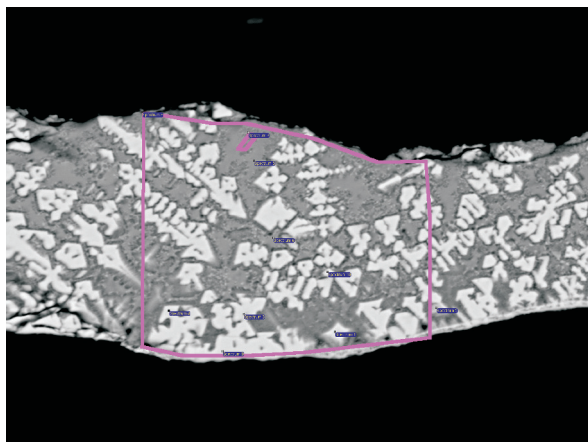
a



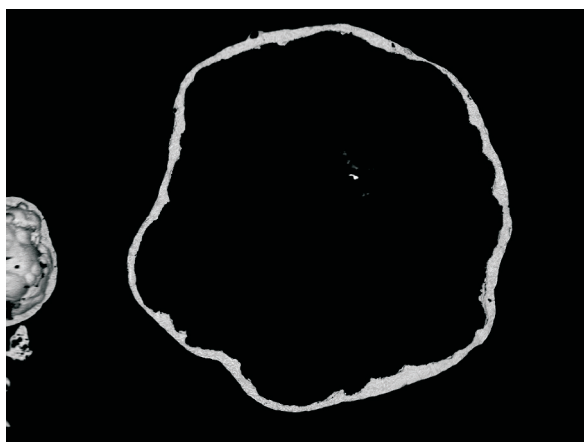
b



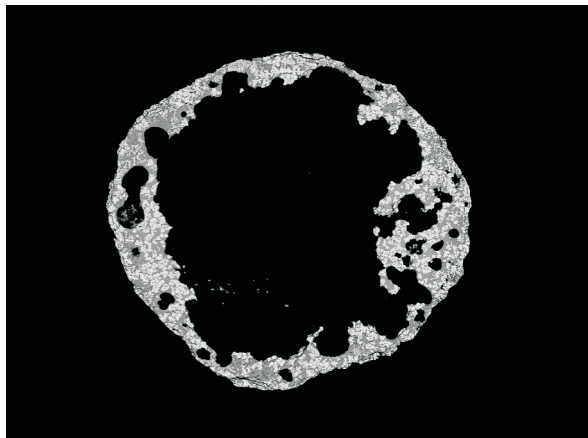
c



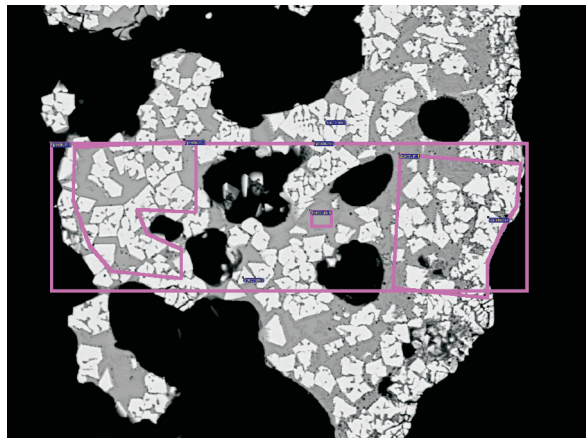
d



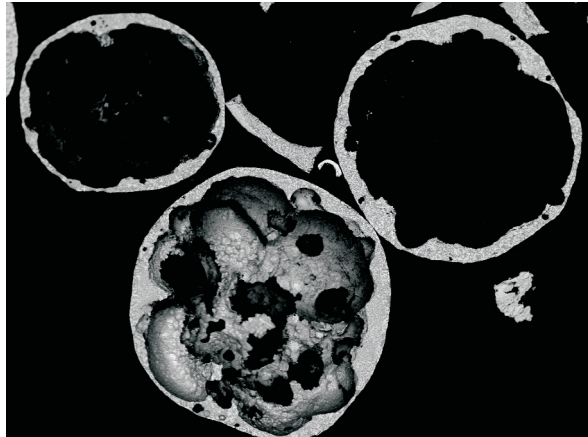
e



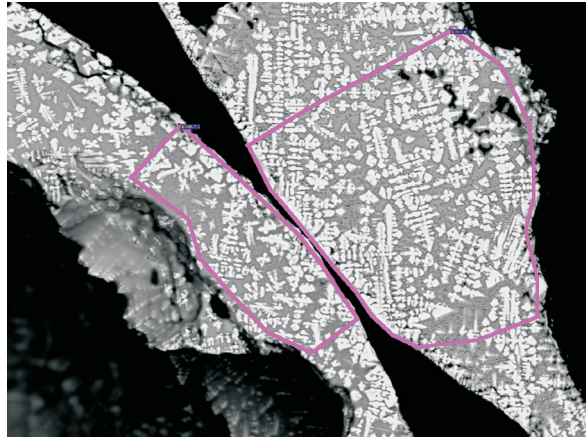
f



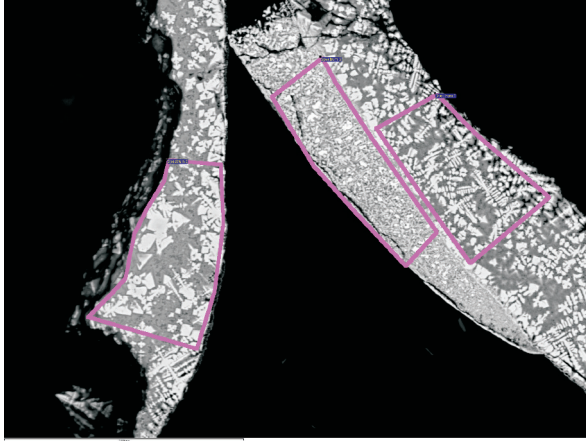
g



h



a



b

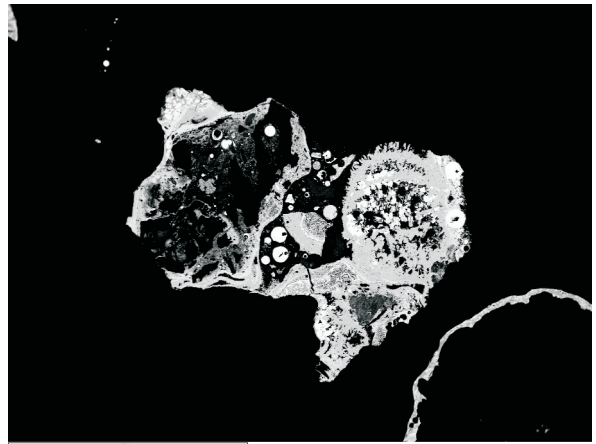
Plate C31



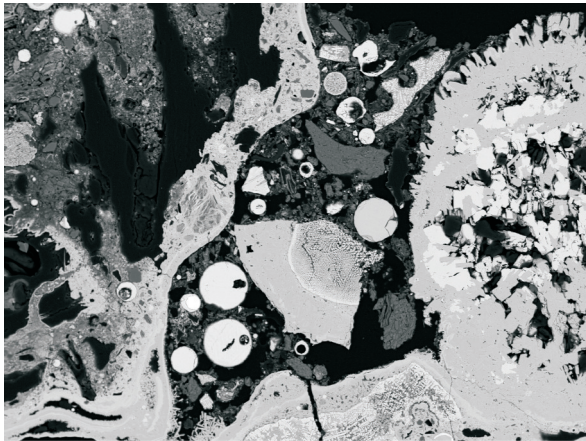
c



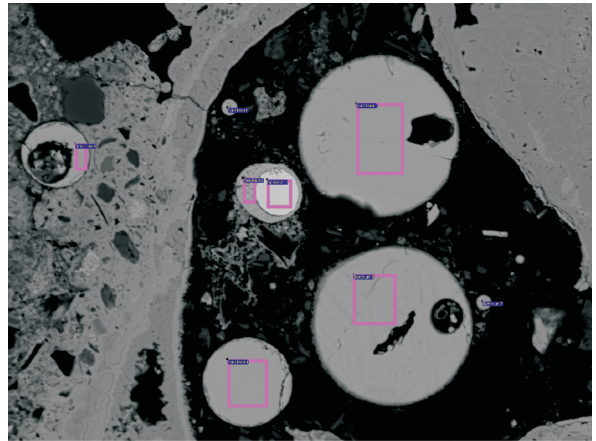
d



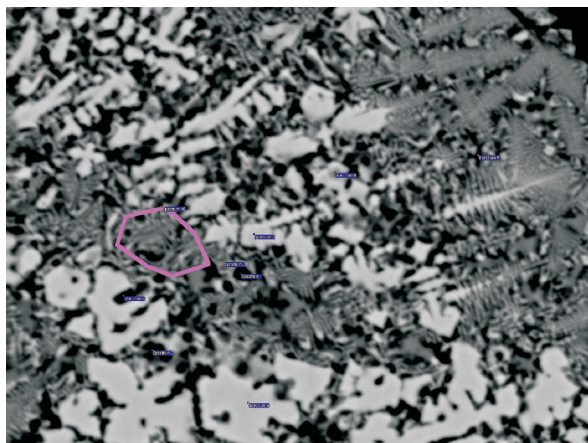
e



f



a

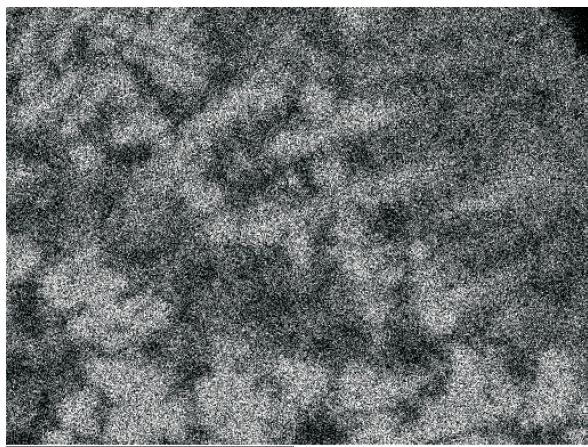


b

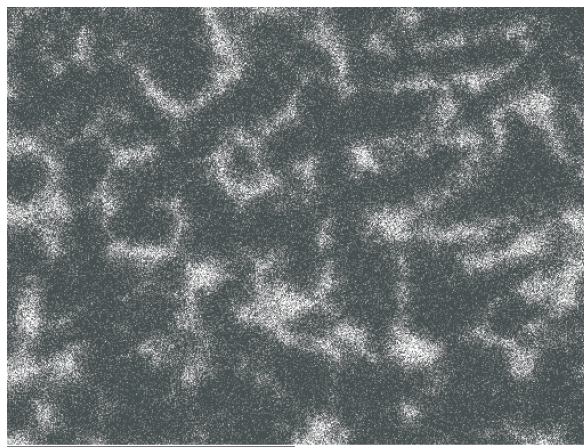
Plate C32



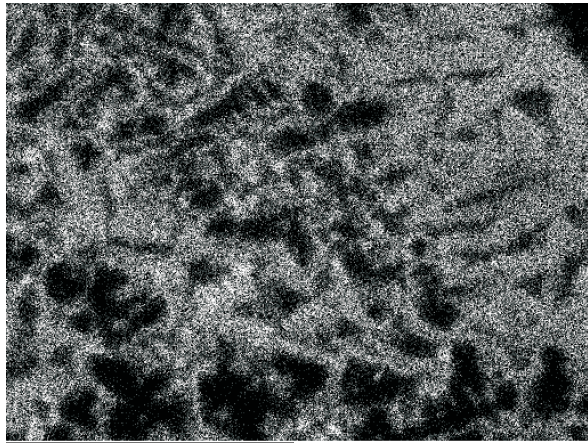
c



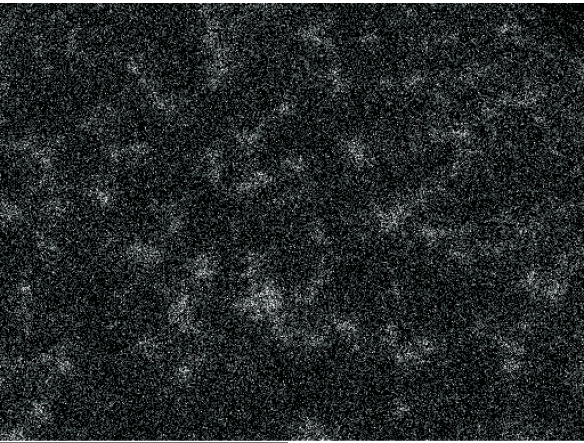
d



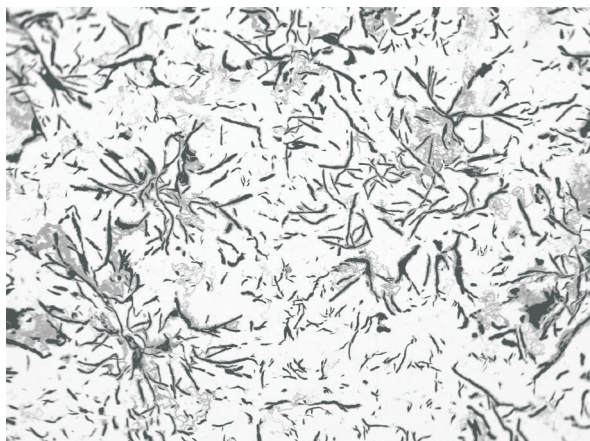
e



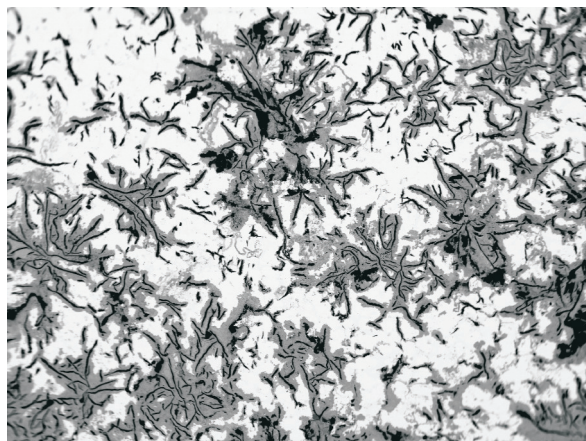
f



a



b



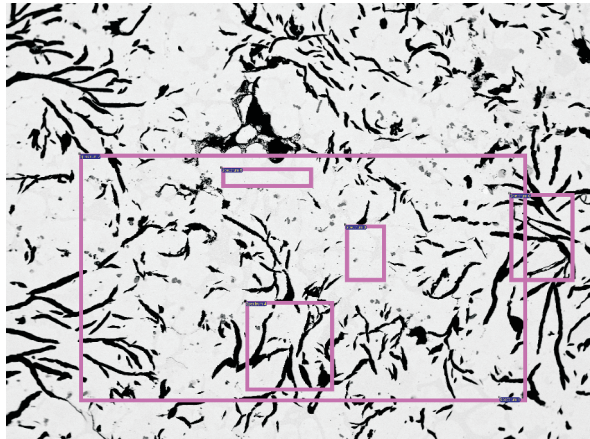
c



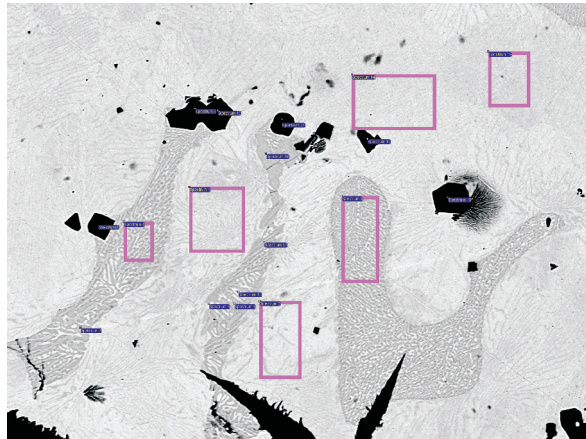
d



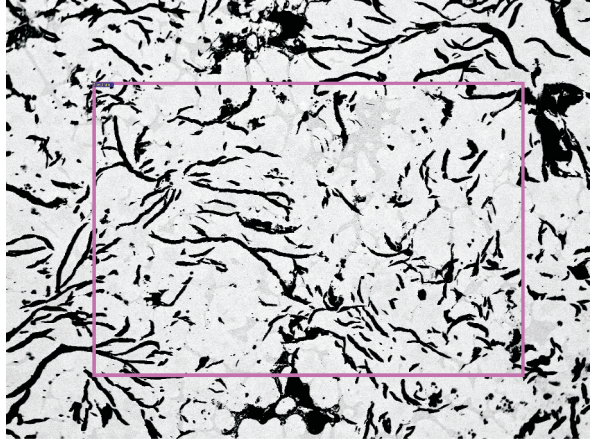
e



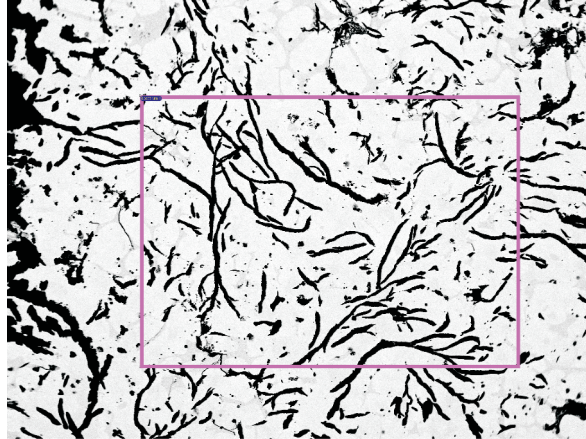
f



g



h



a

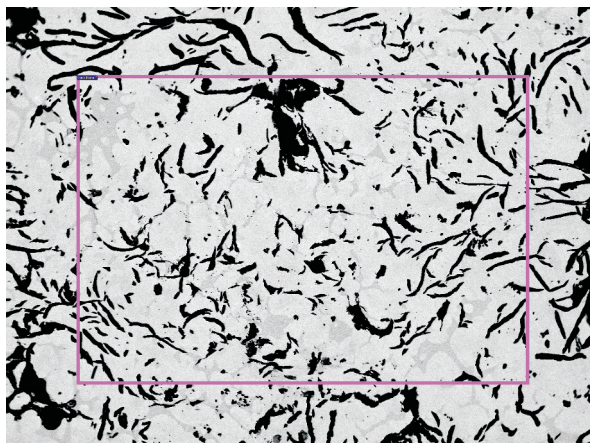
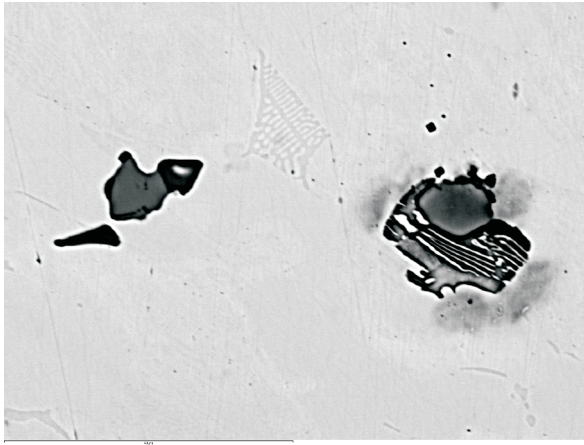


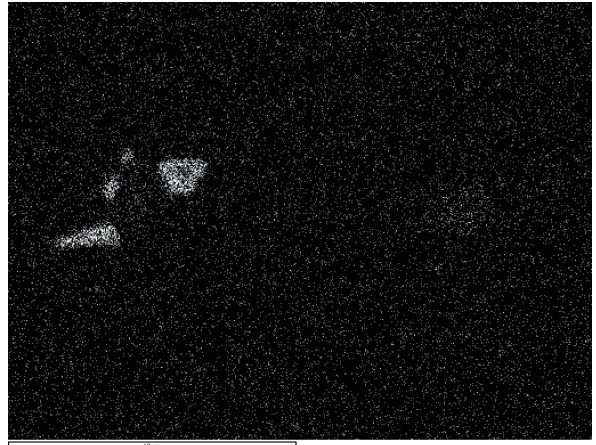
Plate C34

a

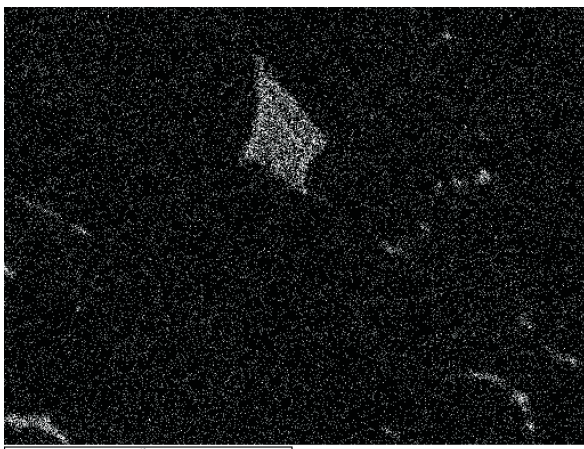


b

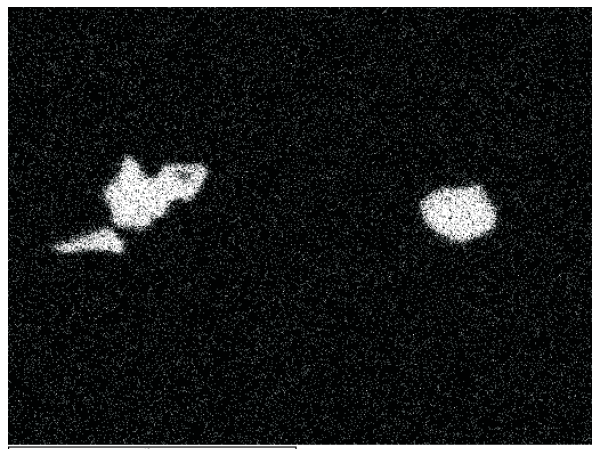
Plate C35



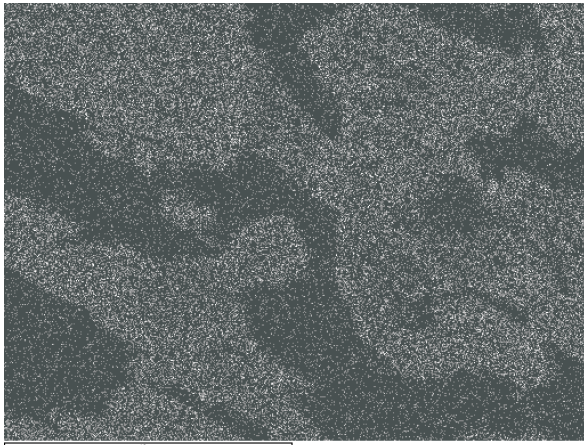
c



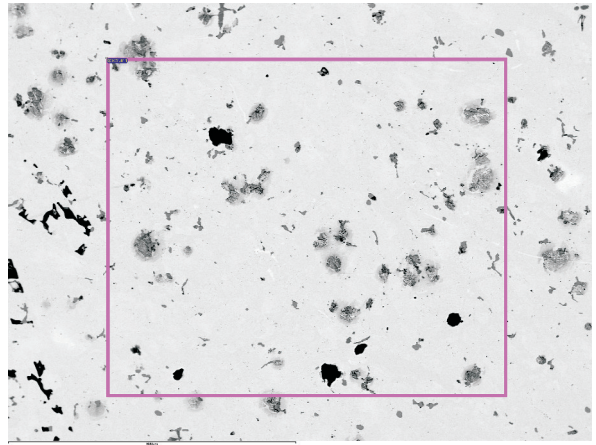
d



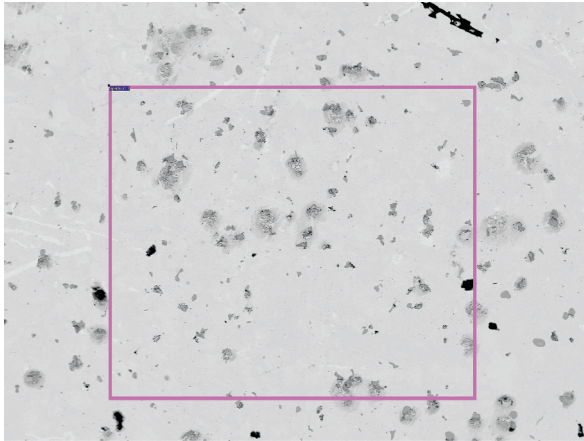
e



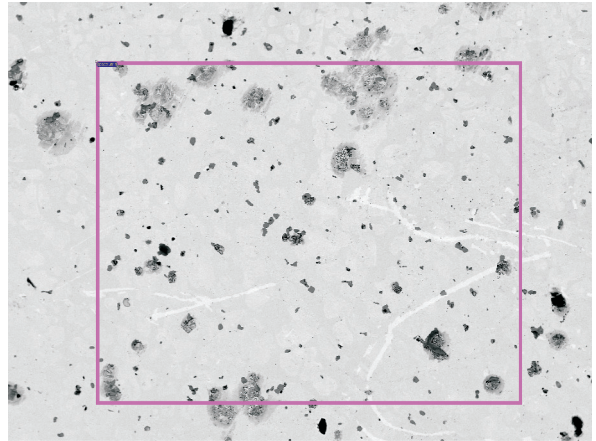
f



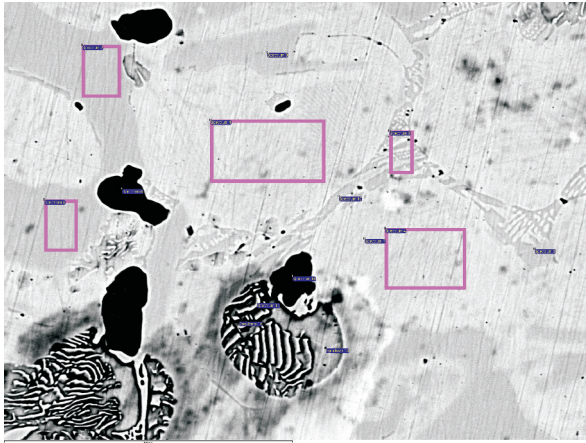
g



h

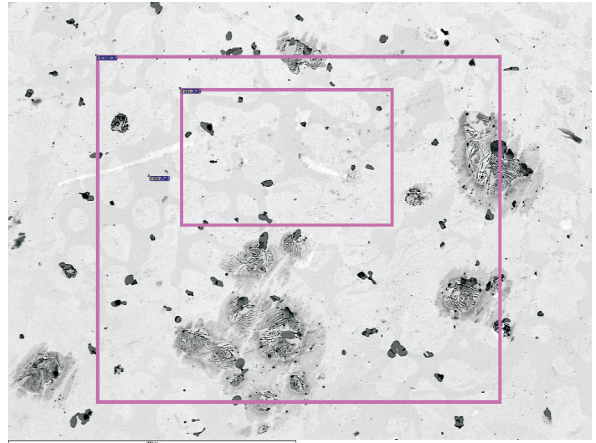


a

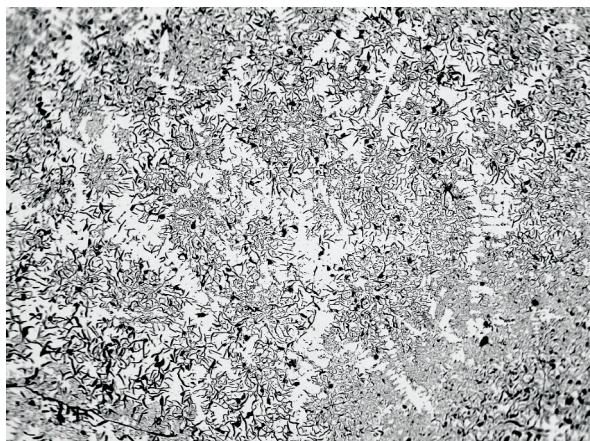


b

Plate C36



a

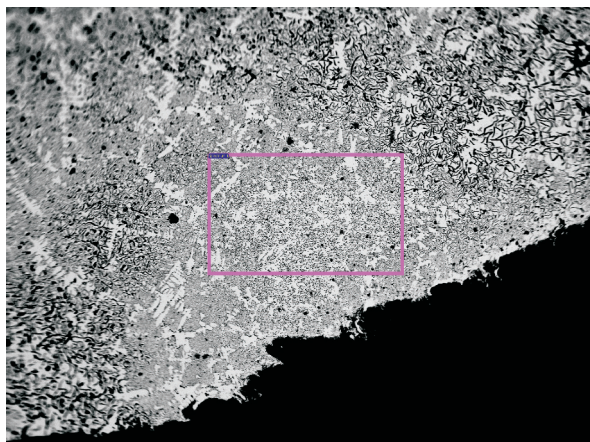


b

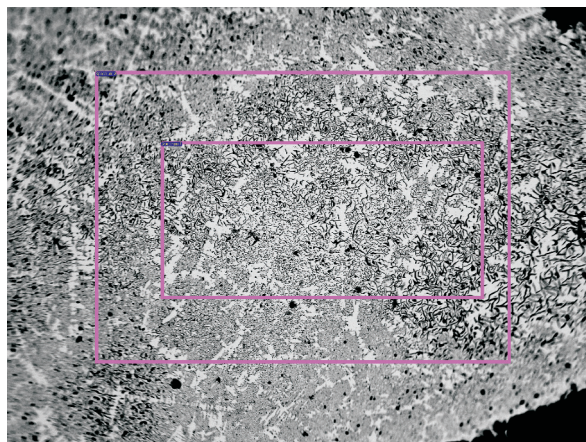
Plate C37



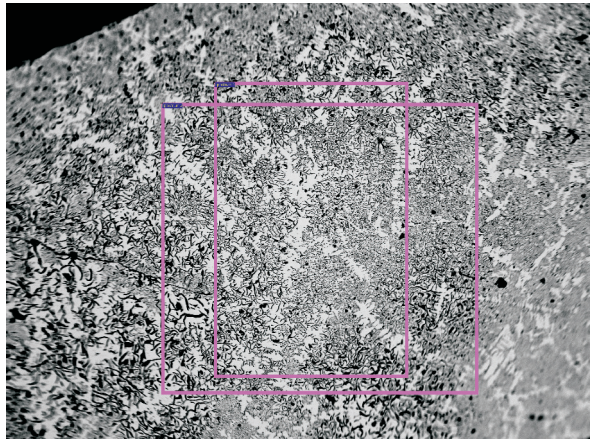
c



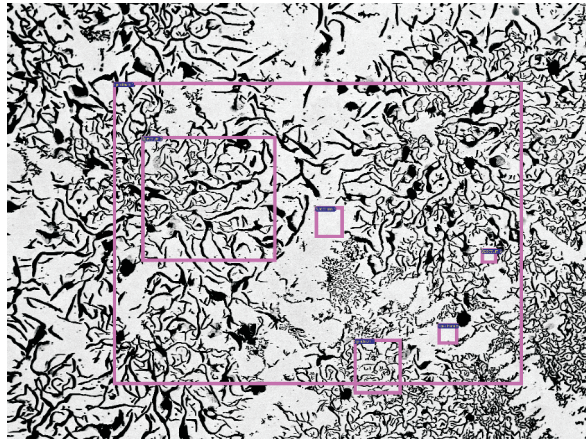
d



e



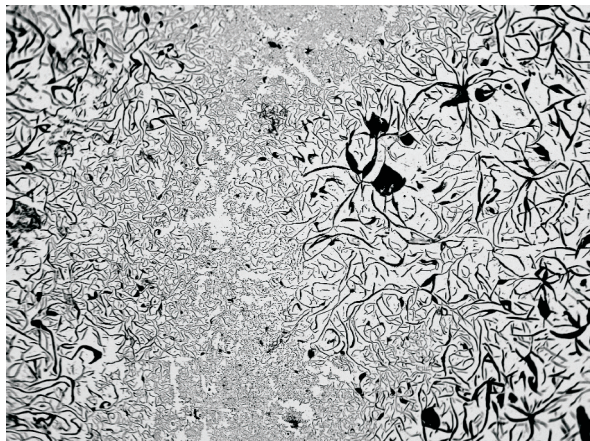
f



g



a

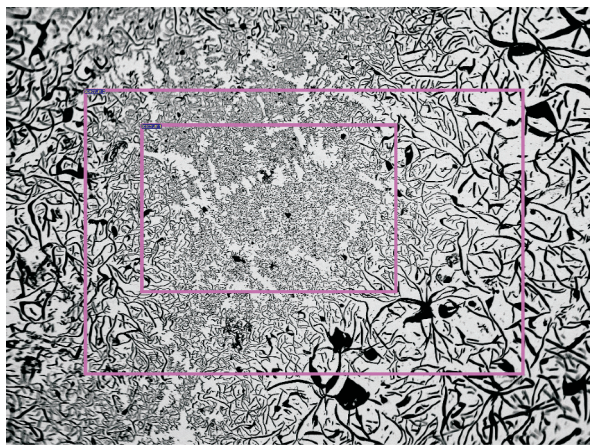


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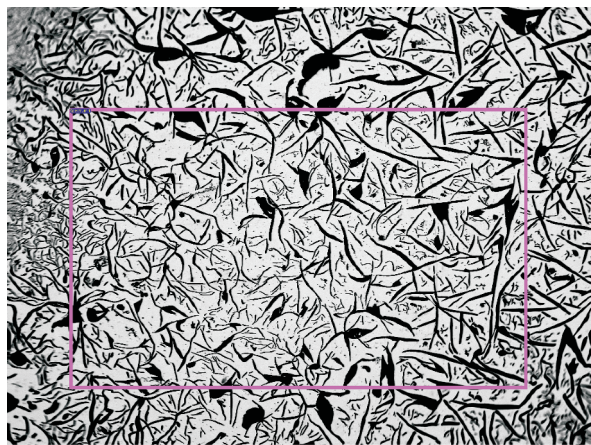
Plate C38



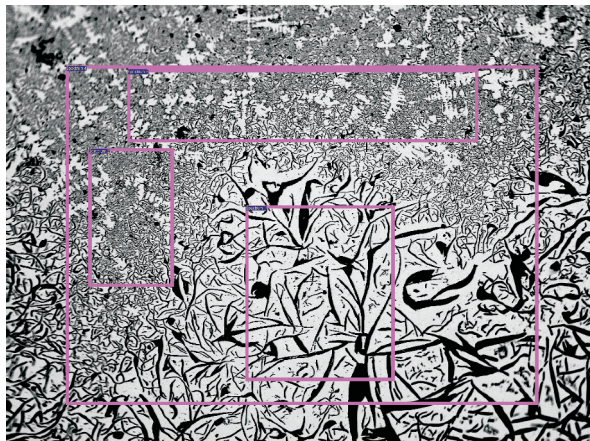
c



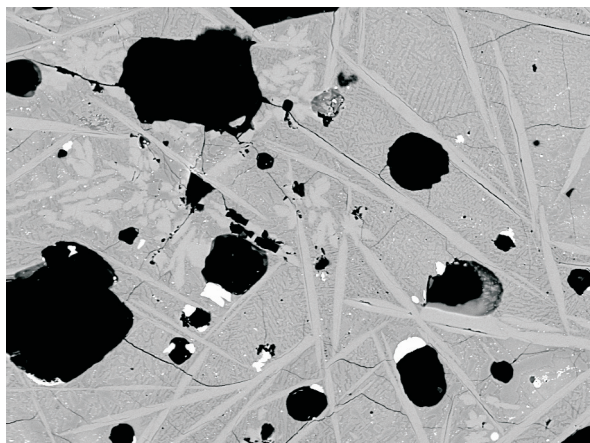
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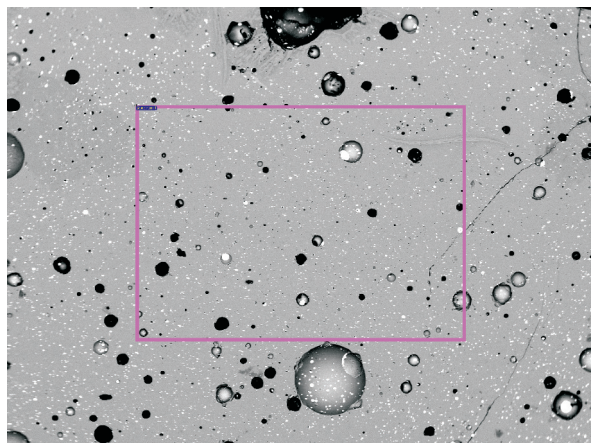
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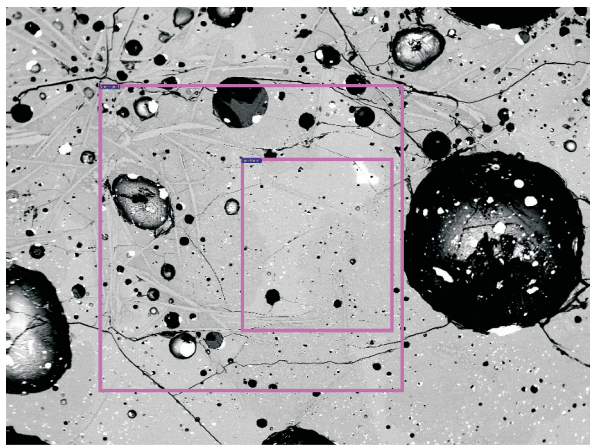
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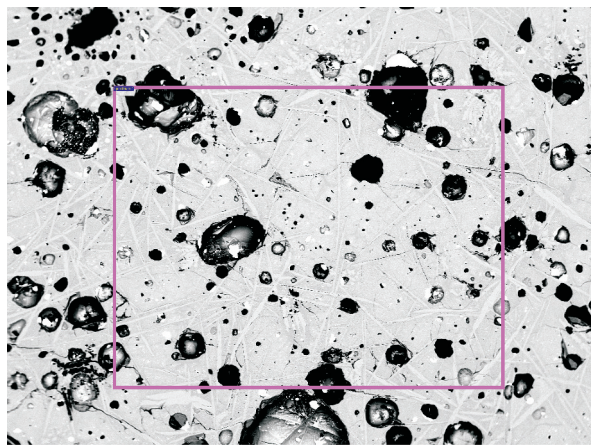
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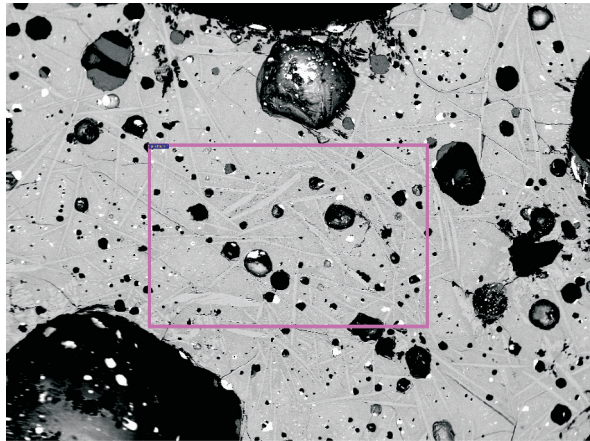
c



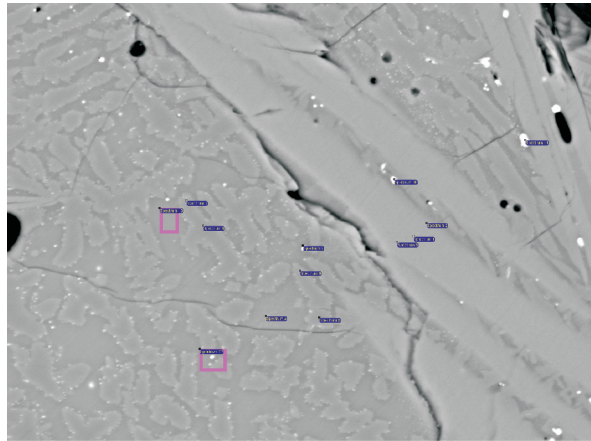
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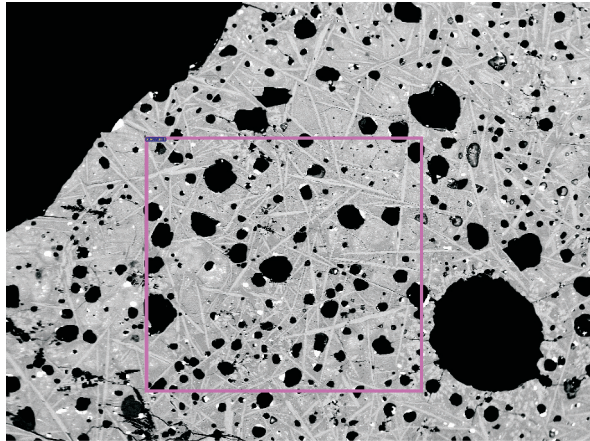
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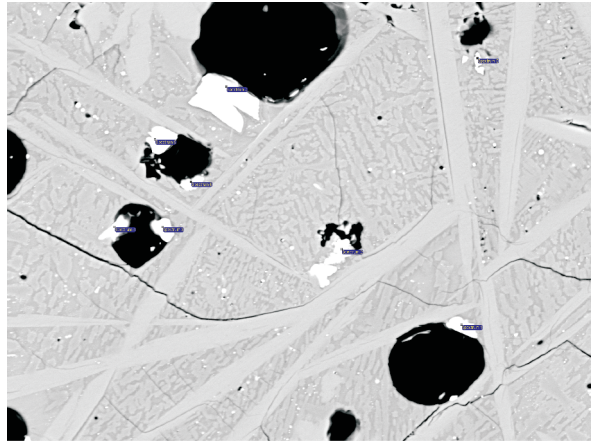
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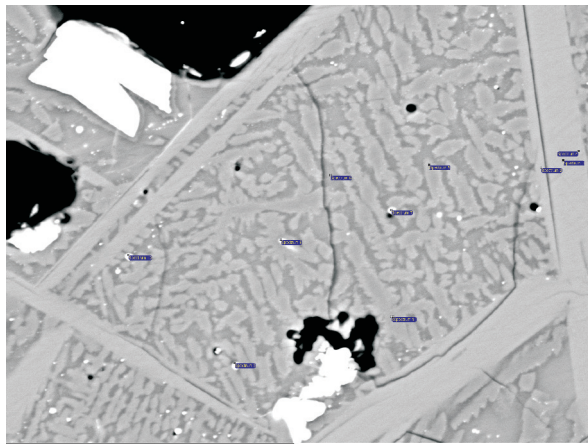
g



h

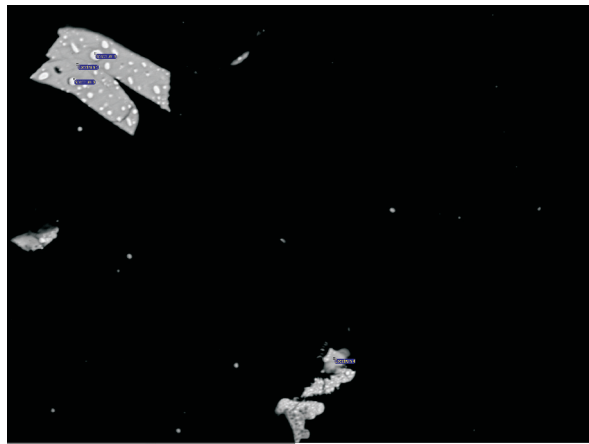


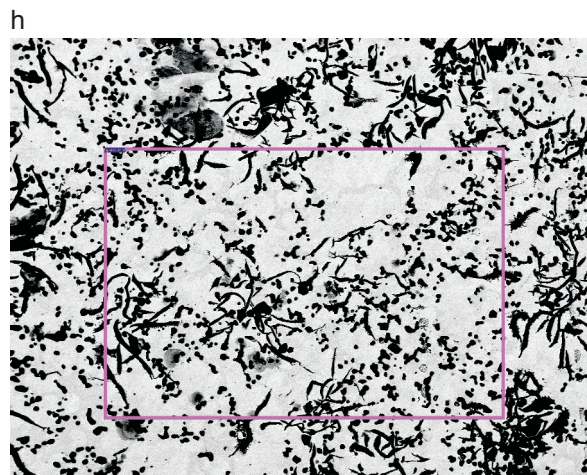
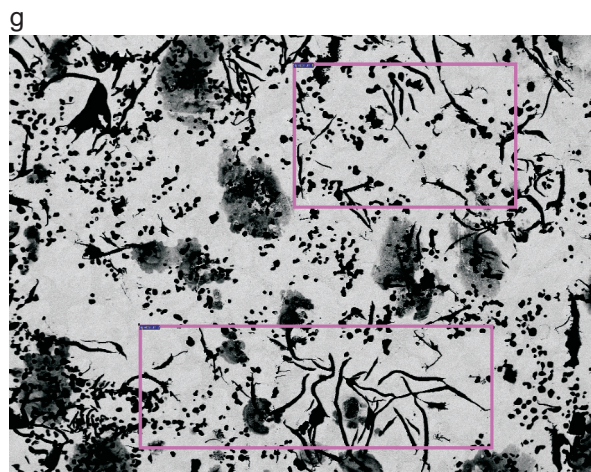
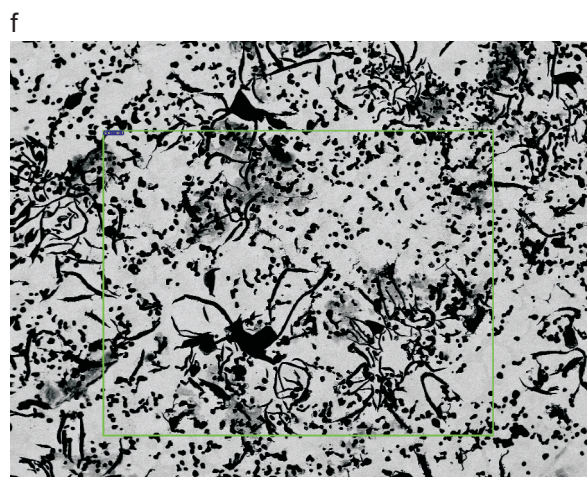
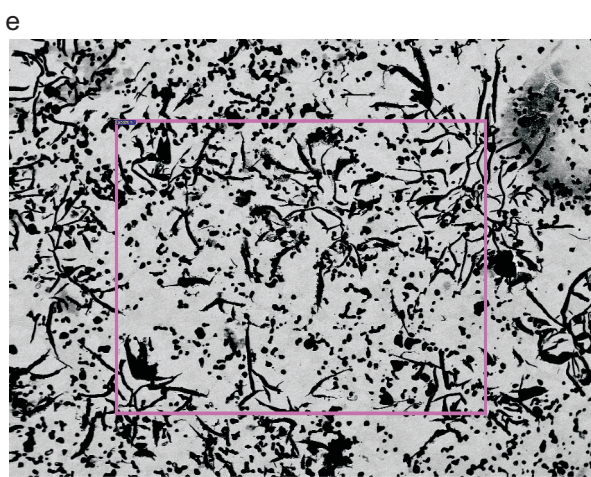
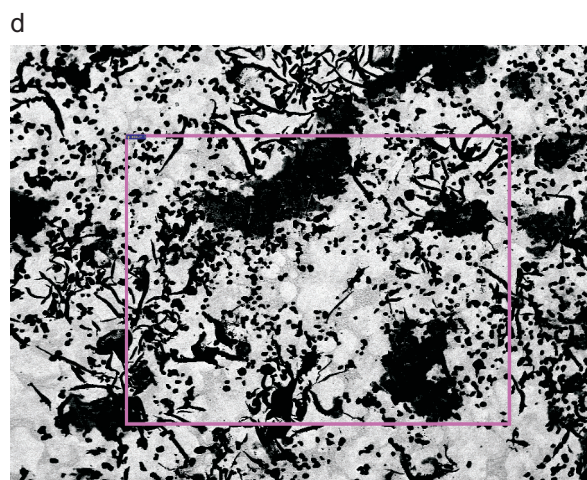
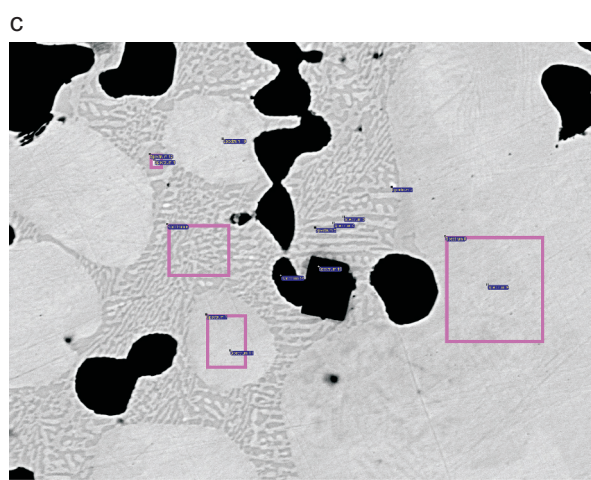
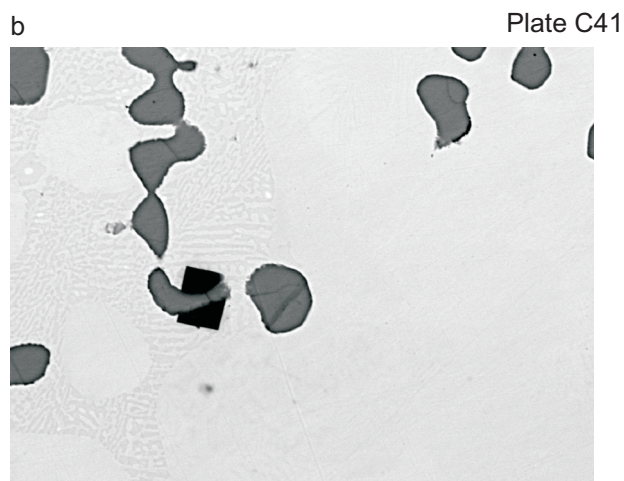
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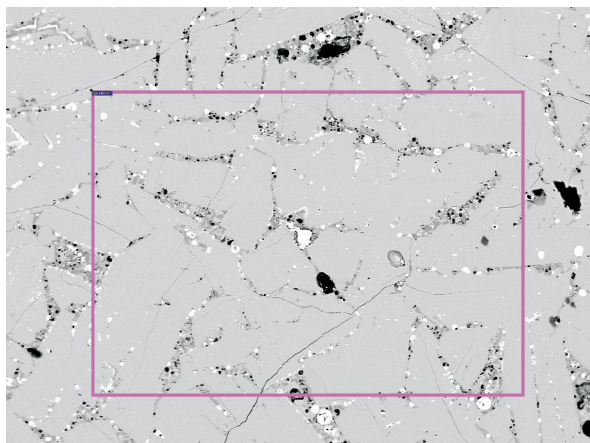
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Plate C40

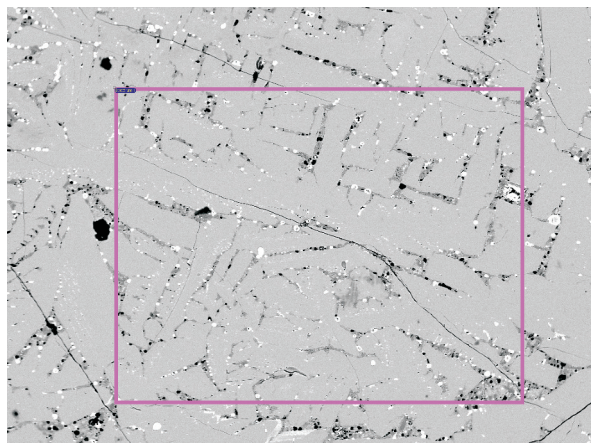




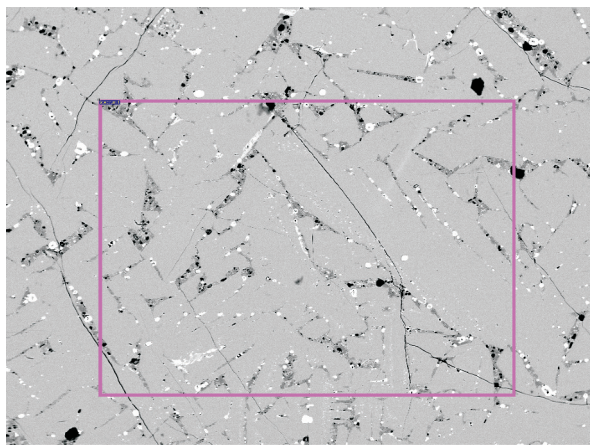
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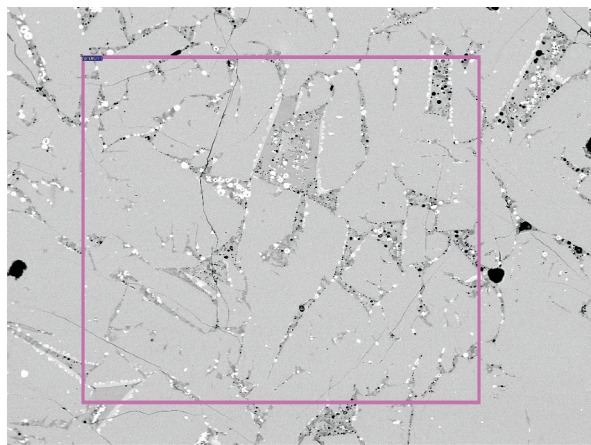
b



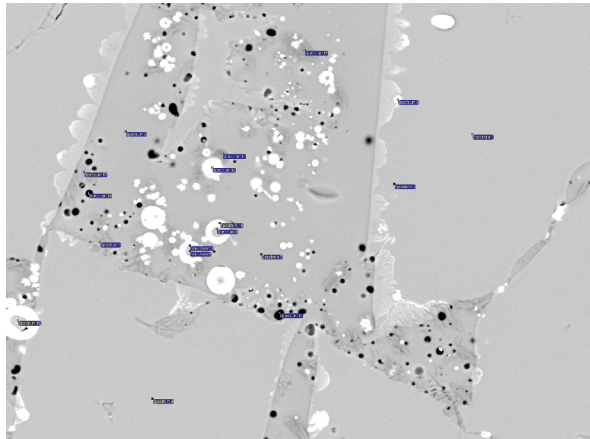
c



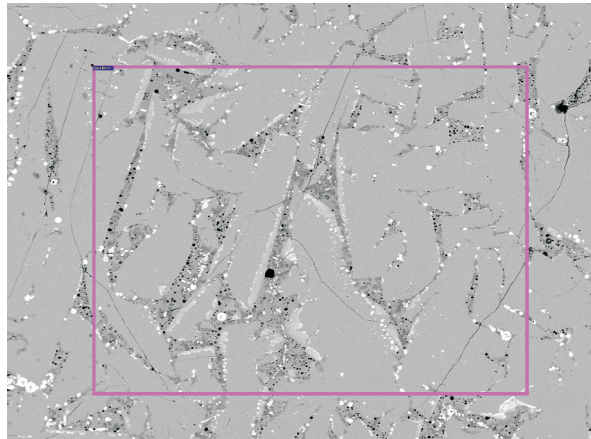
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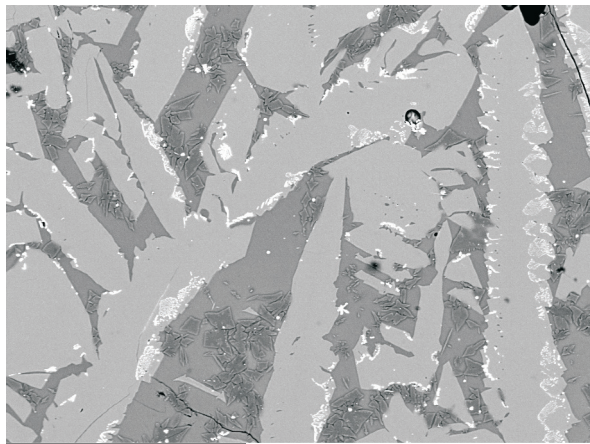
e



f

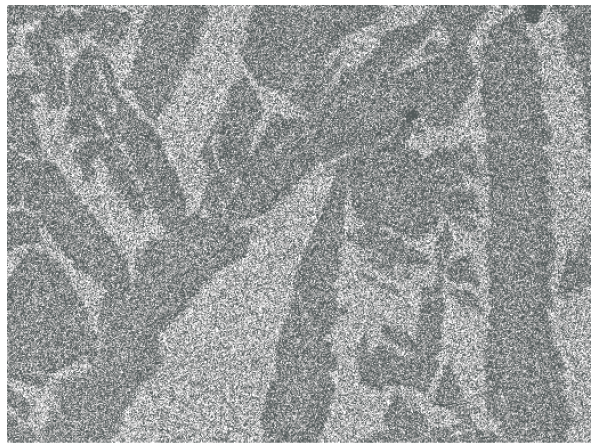


a

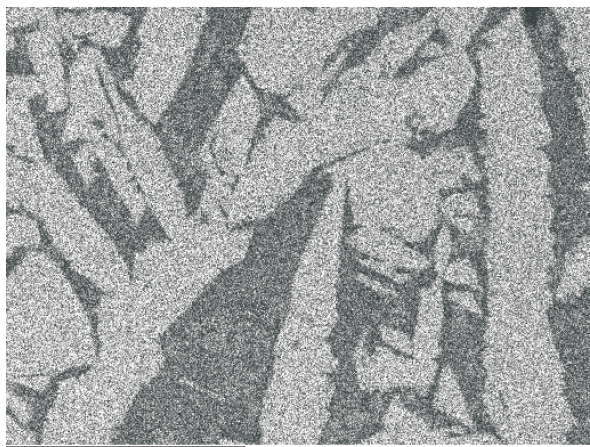


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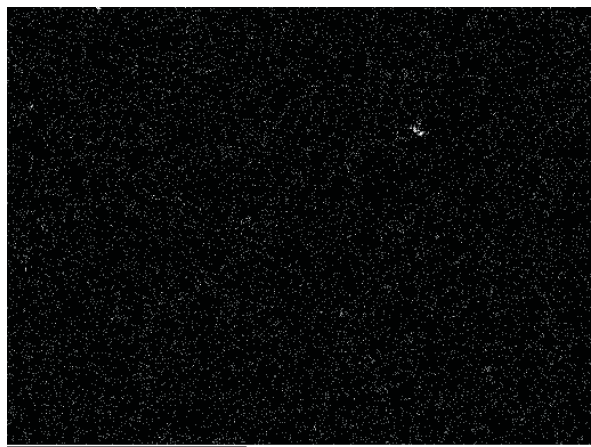
Plate C43



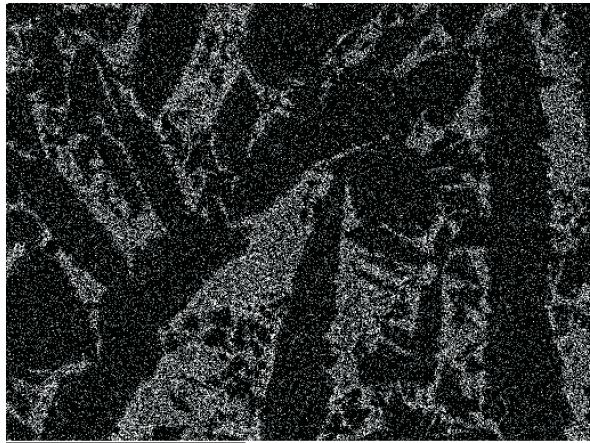
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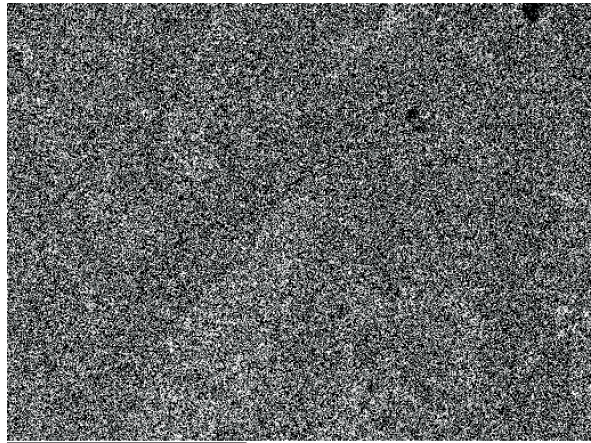
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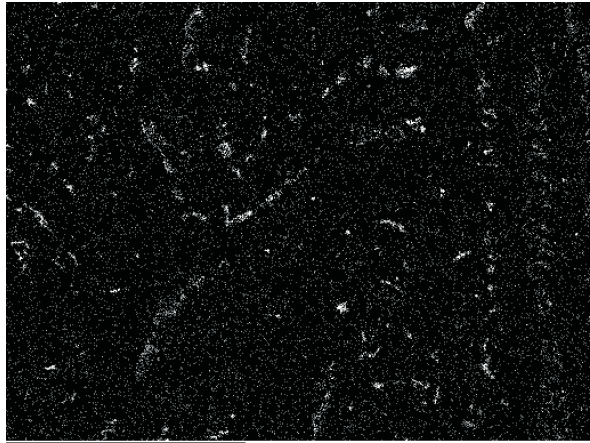
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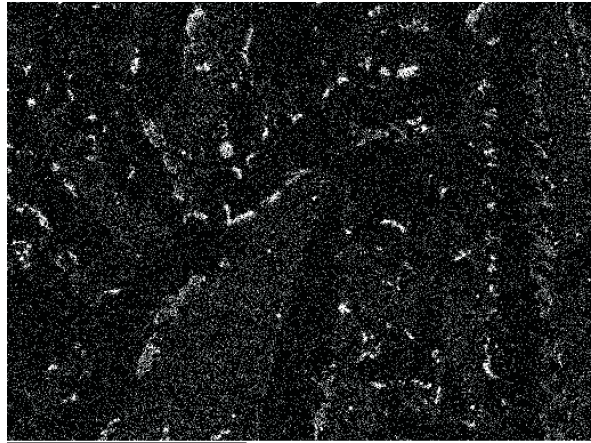
f



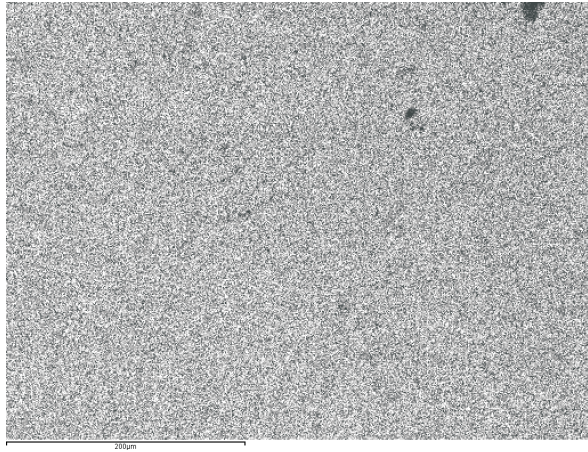
g



h

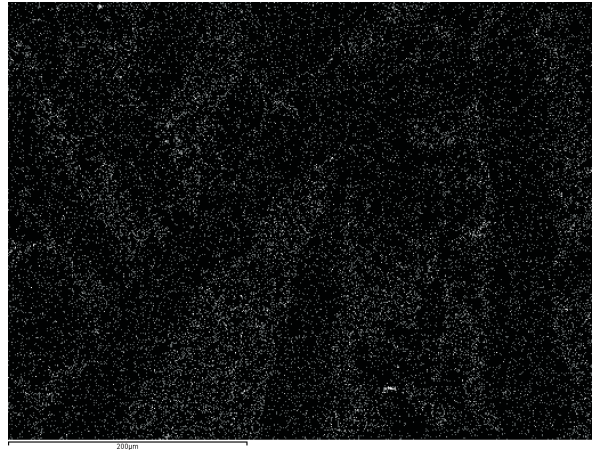


a

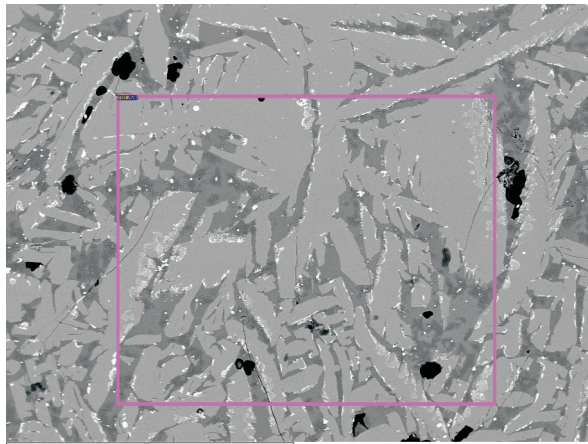


b

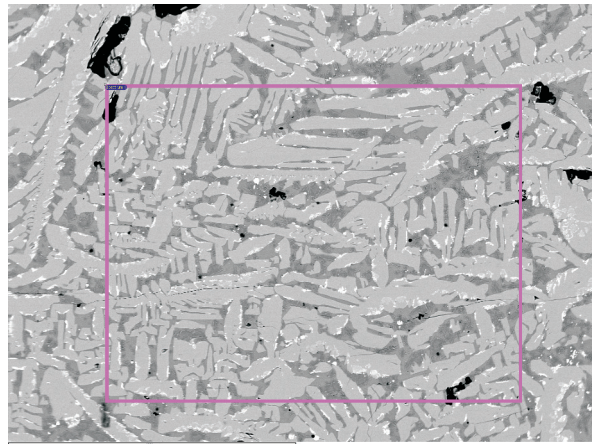
Plate C44



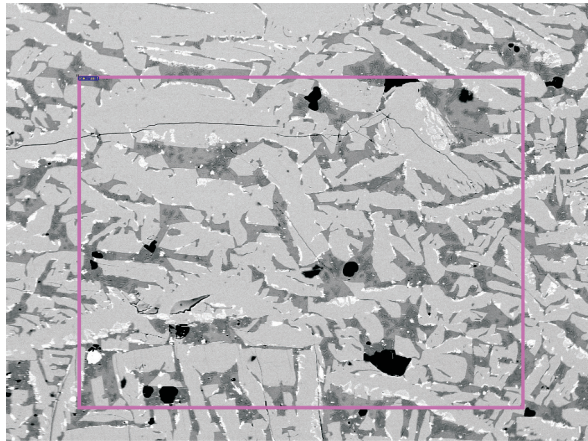
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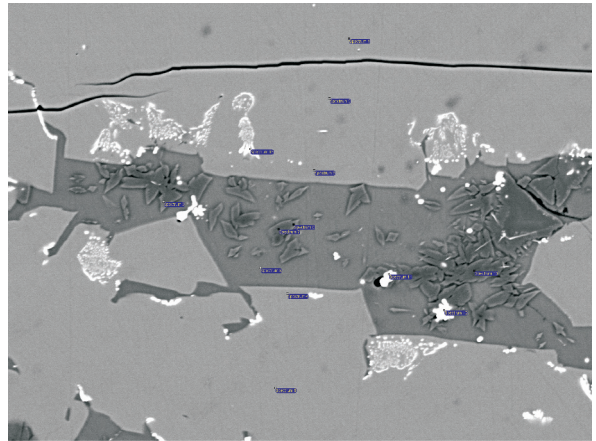
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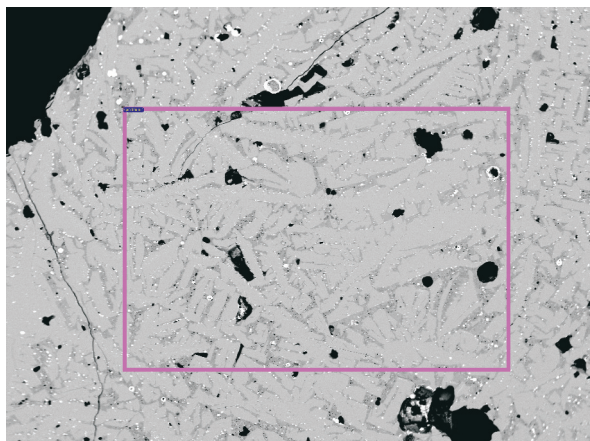
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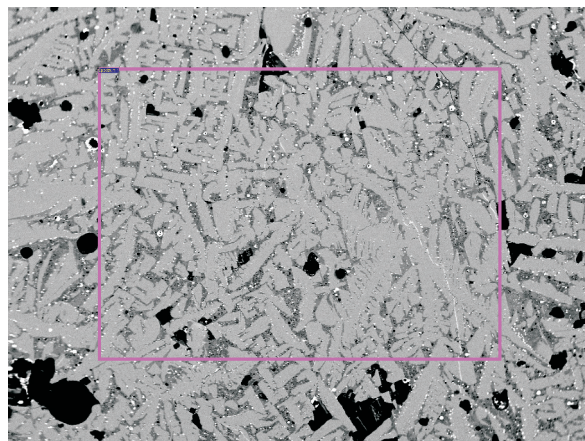
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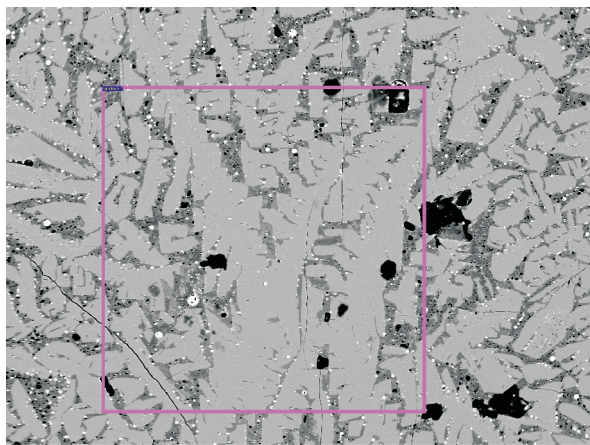
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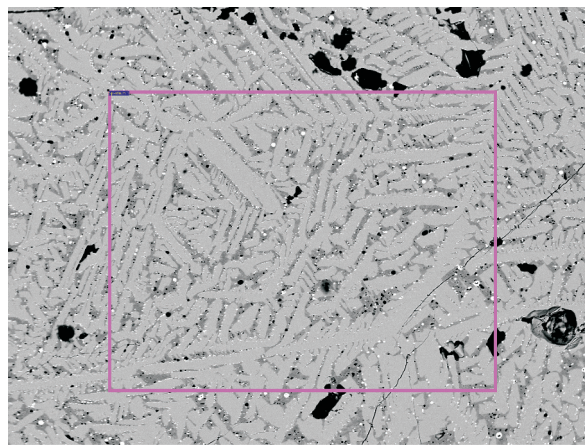
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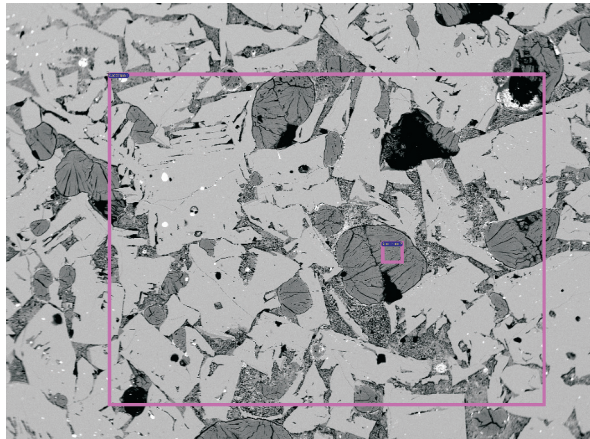
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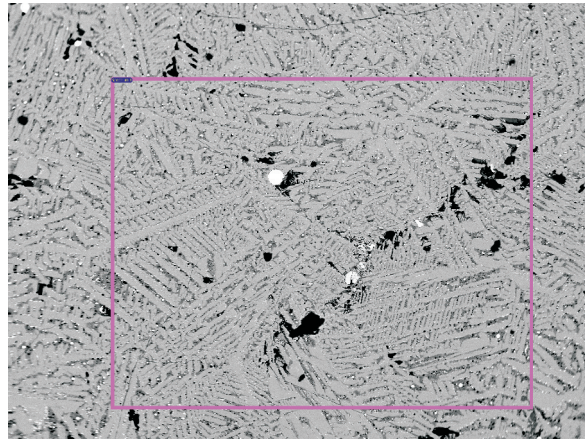
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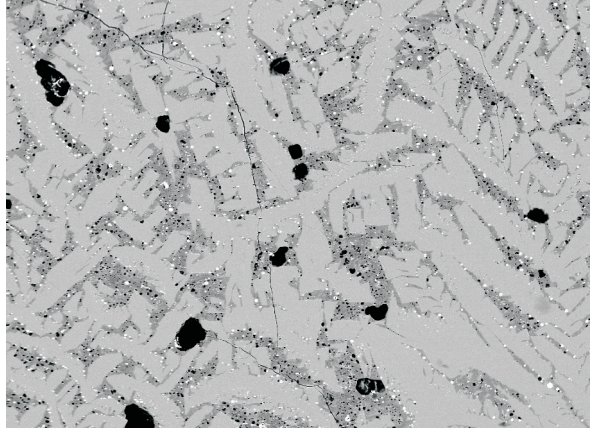
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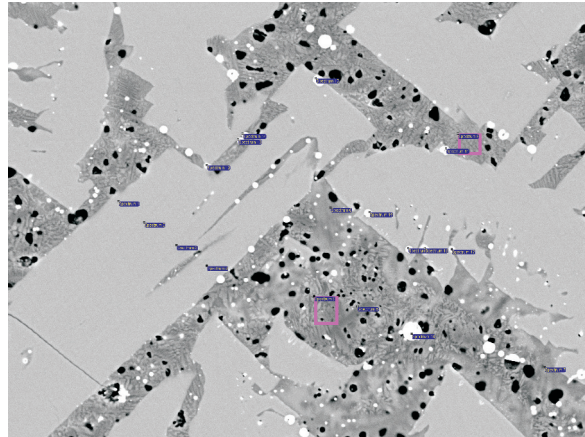
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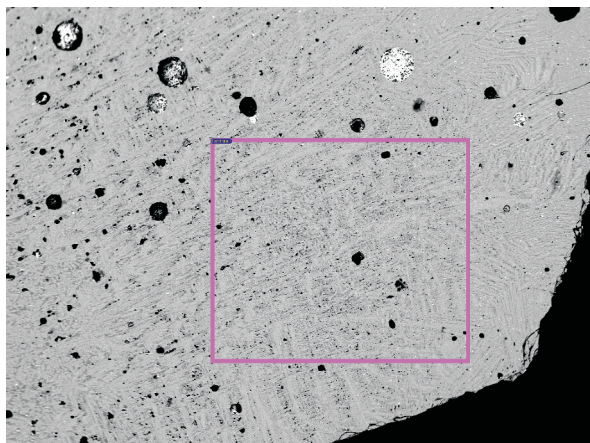
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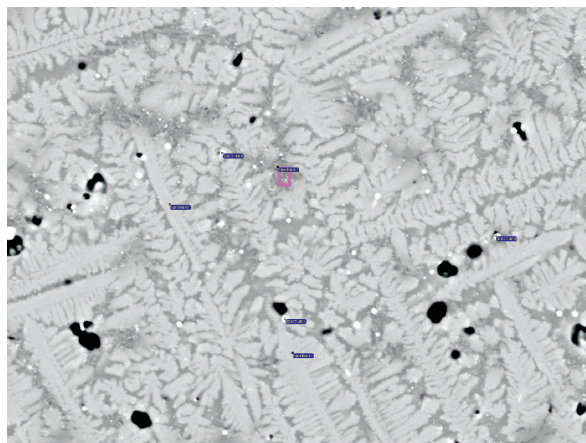
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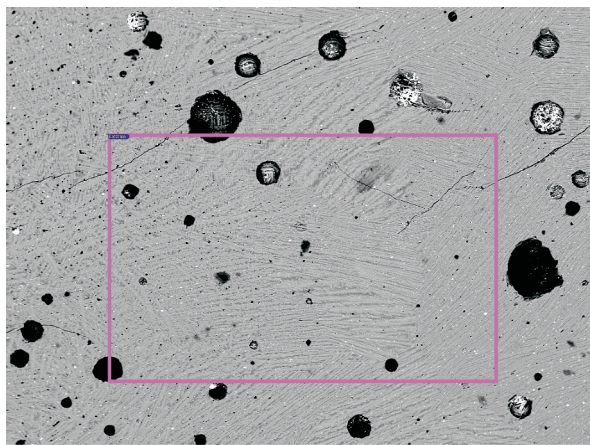
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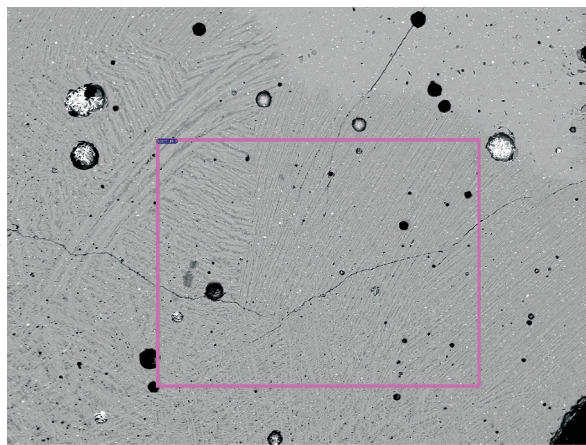
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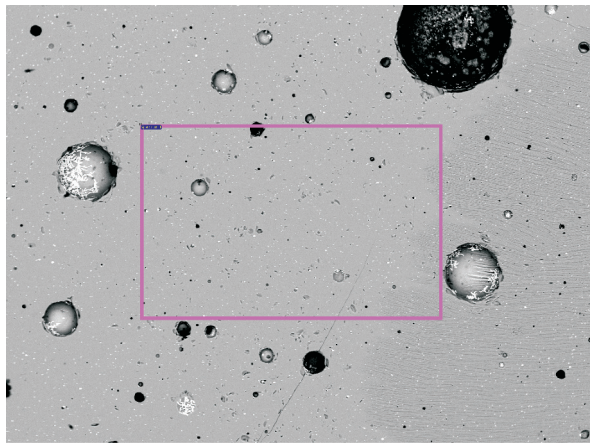
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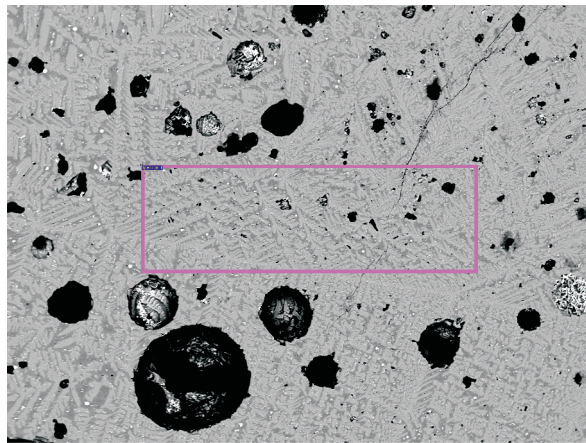
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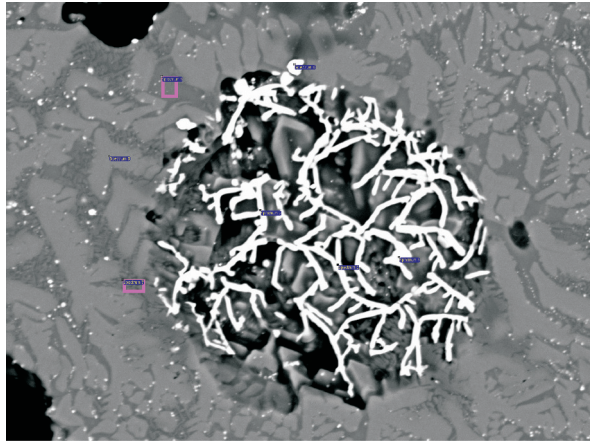
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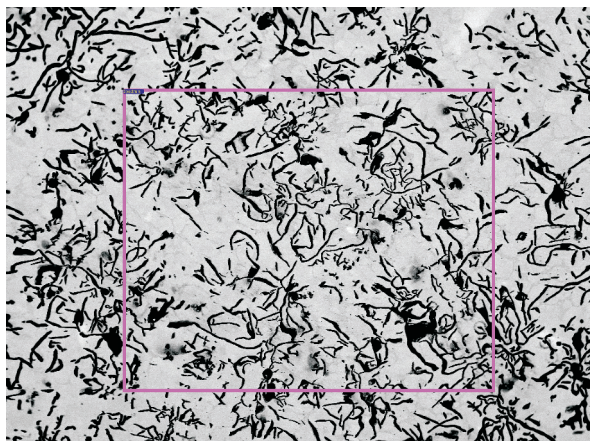
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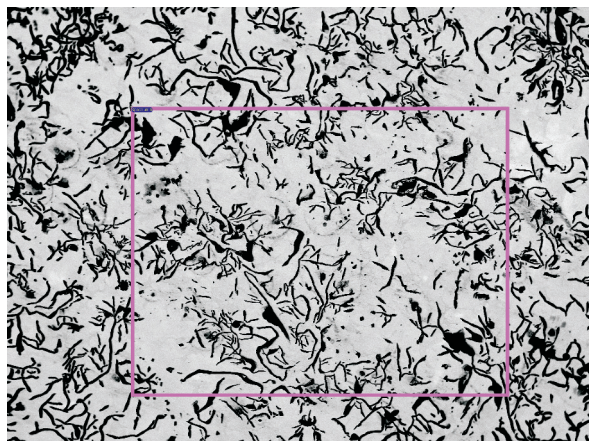
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a



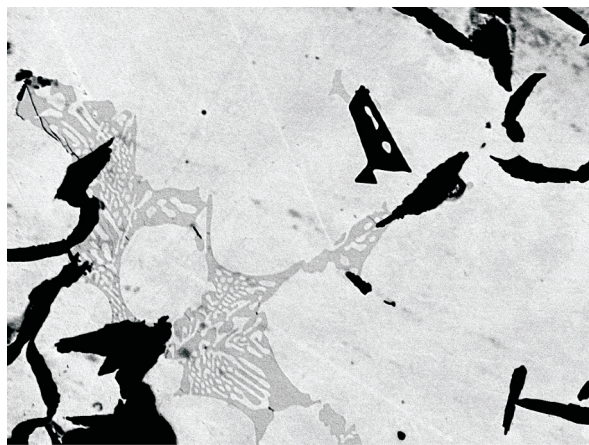
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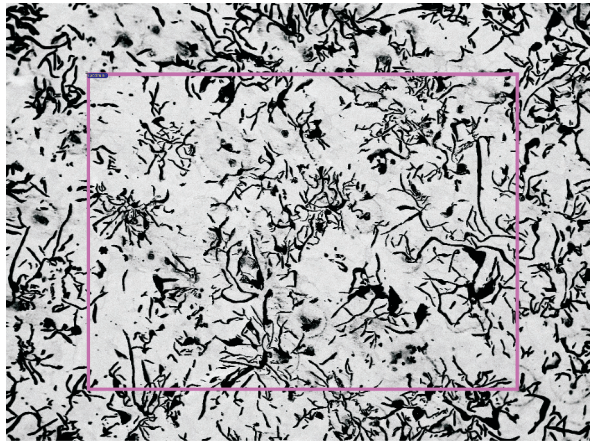
c



d



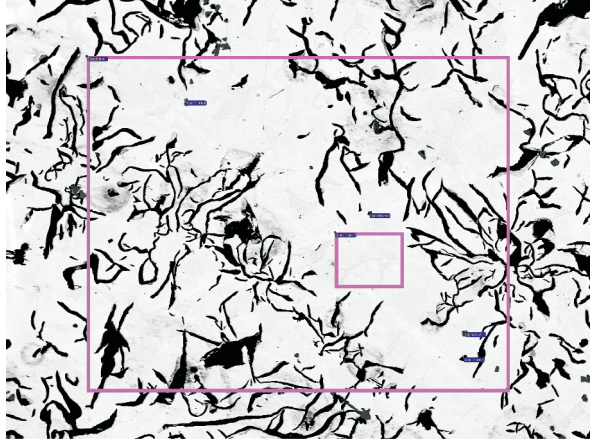
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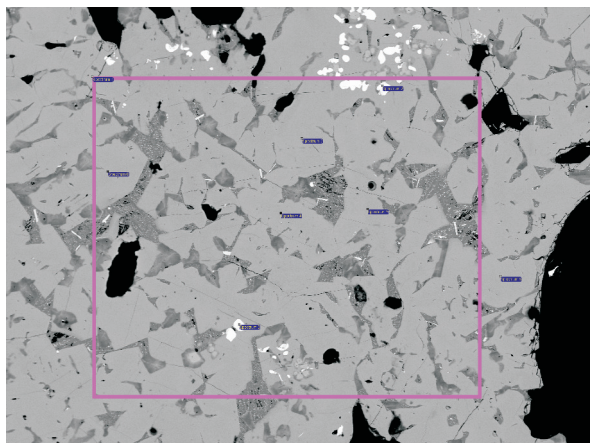
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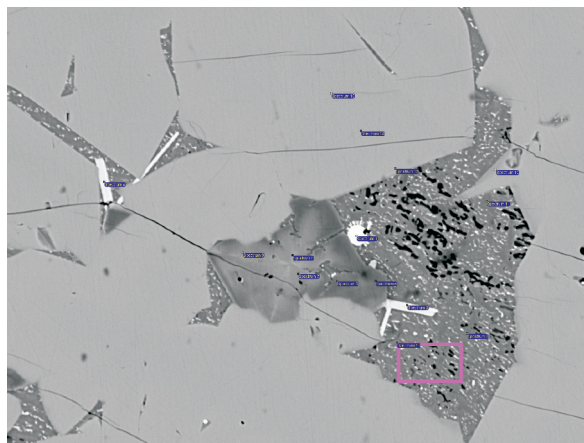
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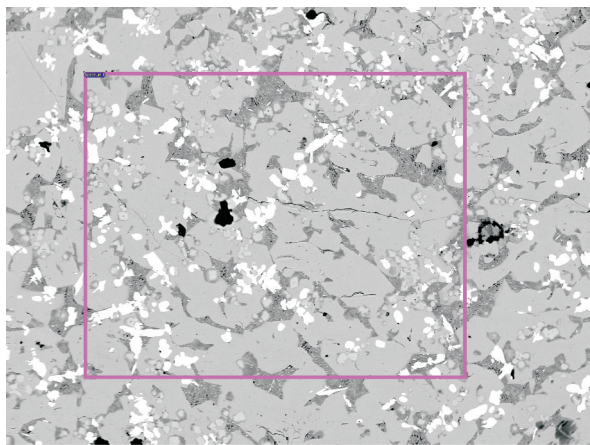
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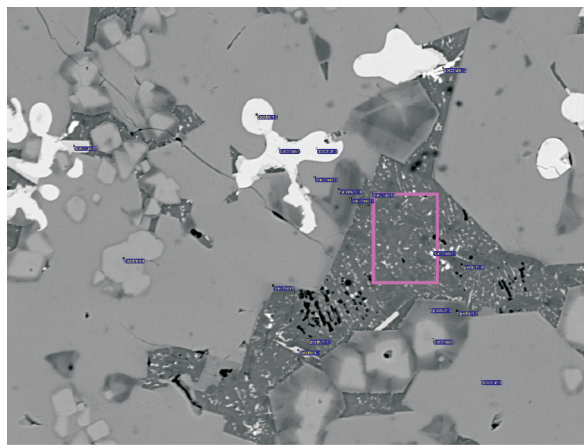
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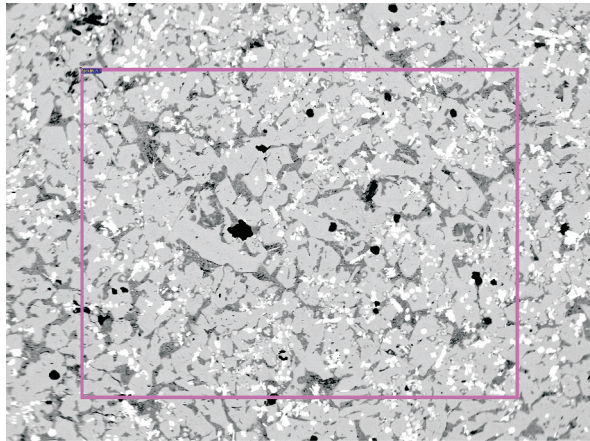
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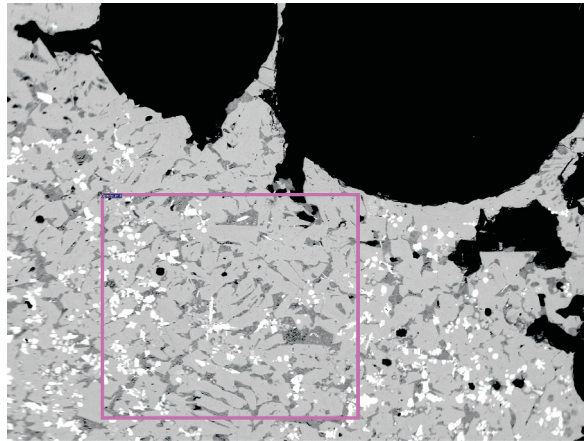
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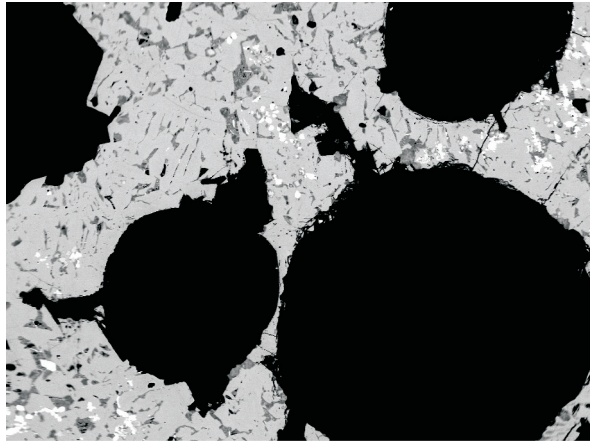
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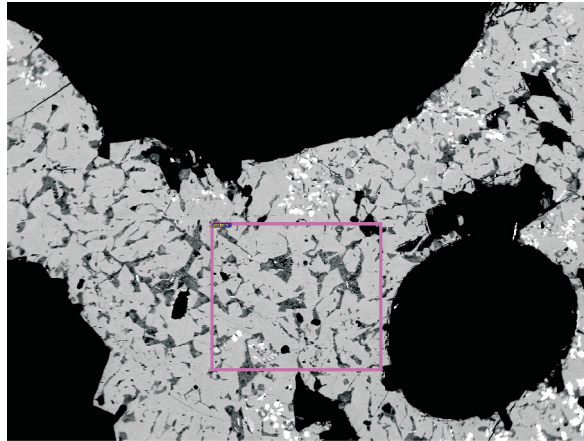
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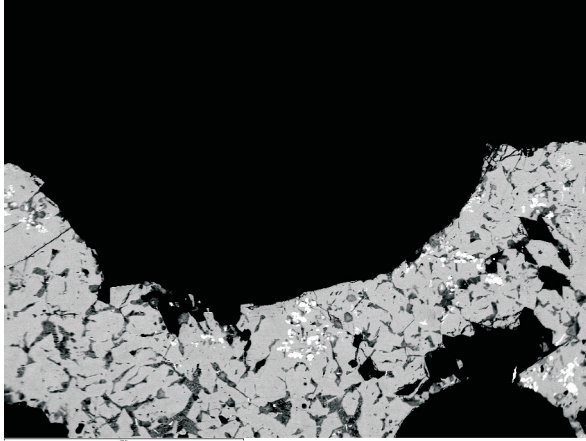
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h

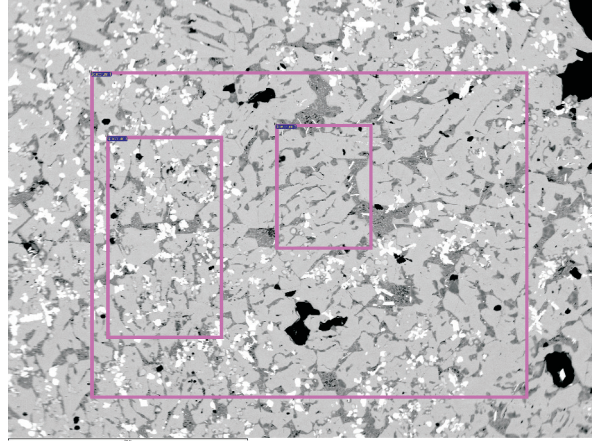


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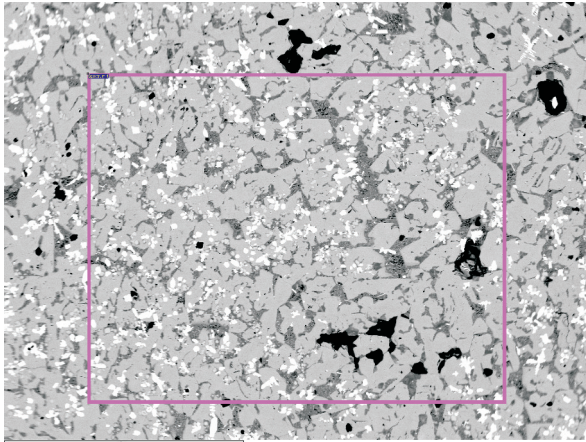


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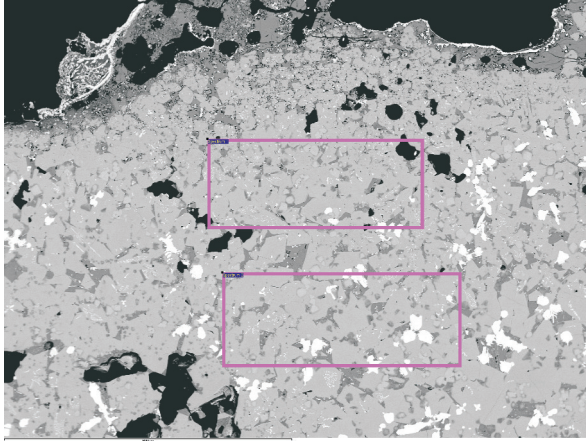
Plate C49



c

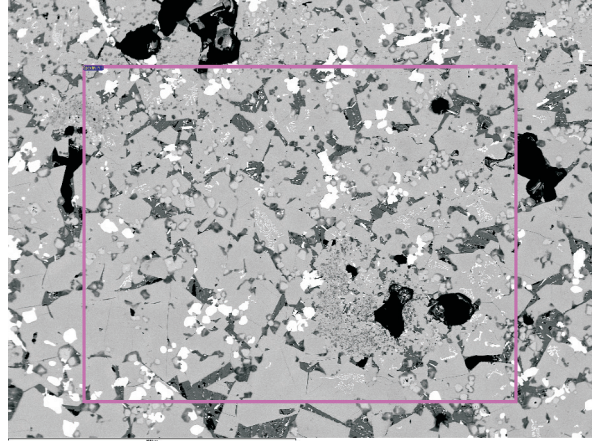


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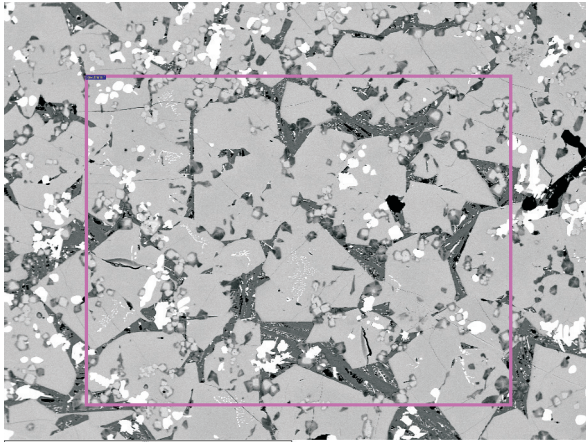


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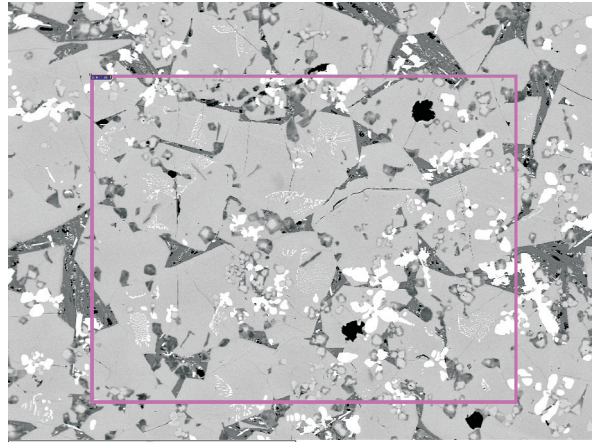
Plate C50



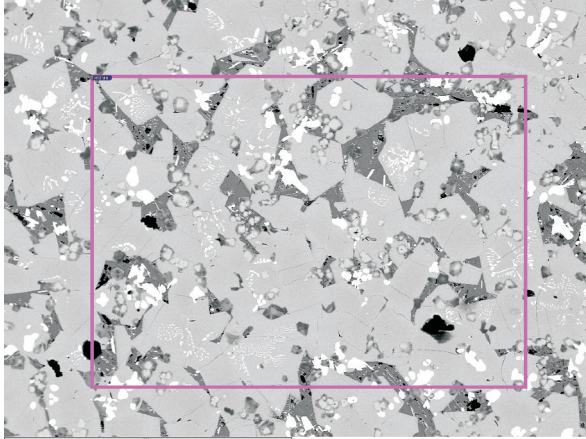
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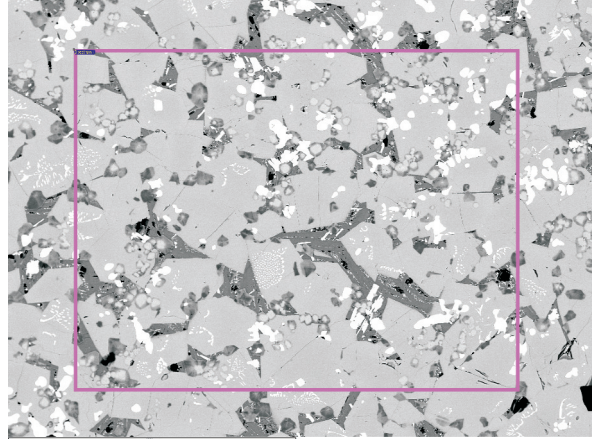
d



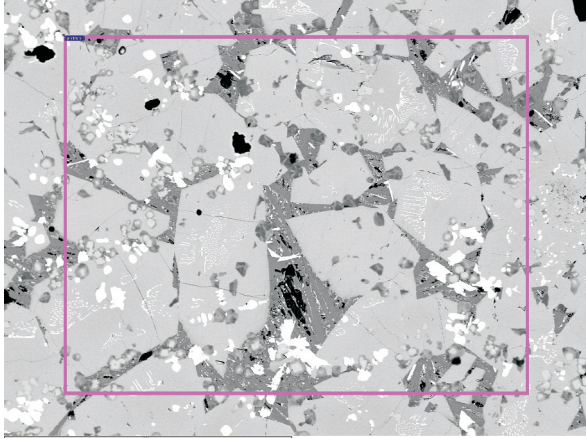
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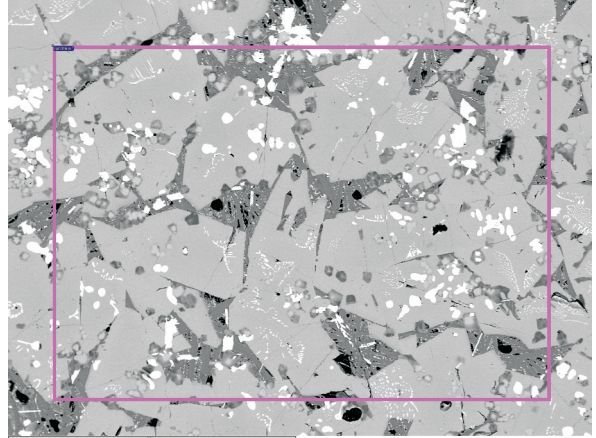
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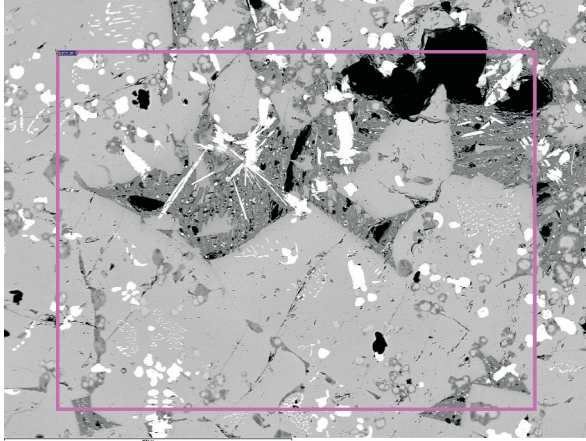
g



h

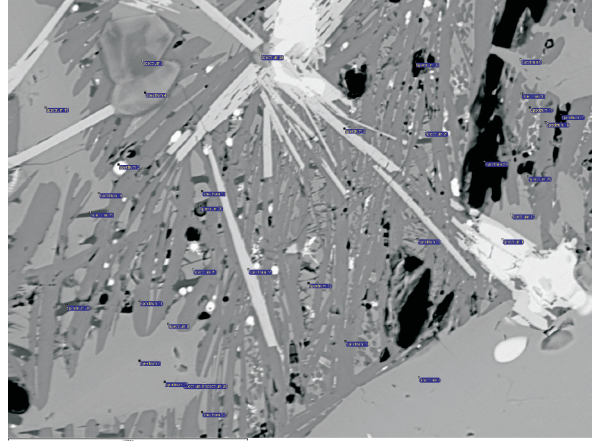


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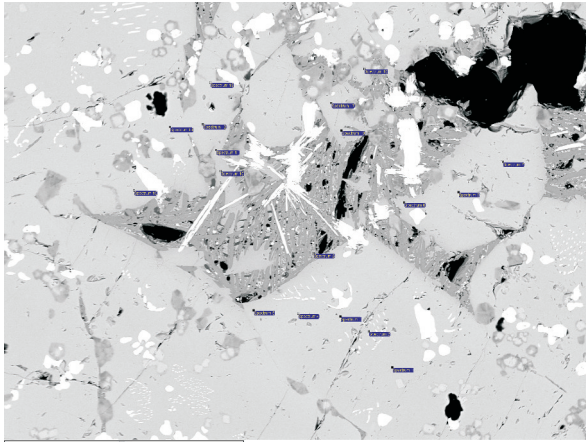


b

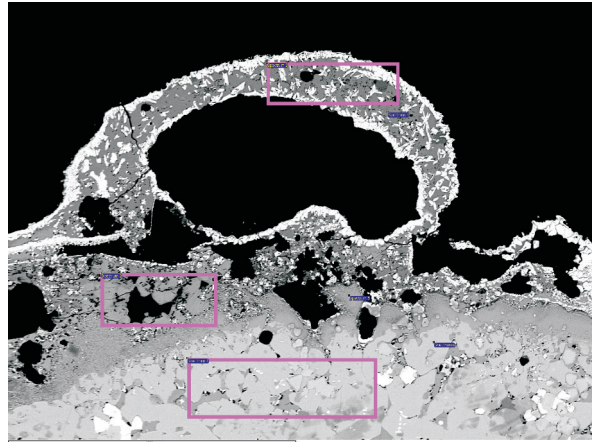
Plate C51



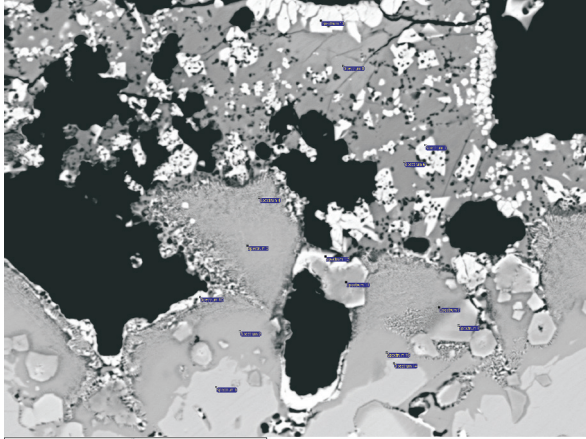
c



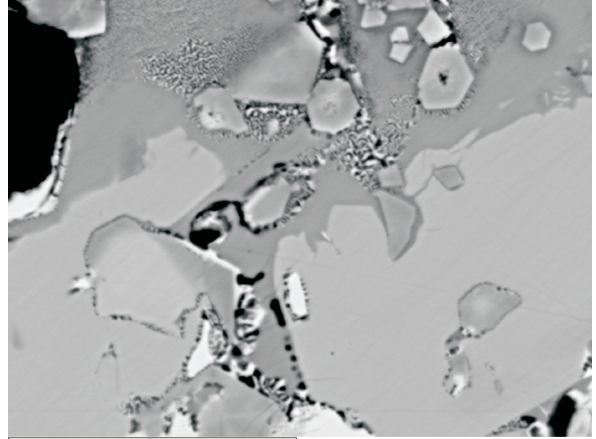
d



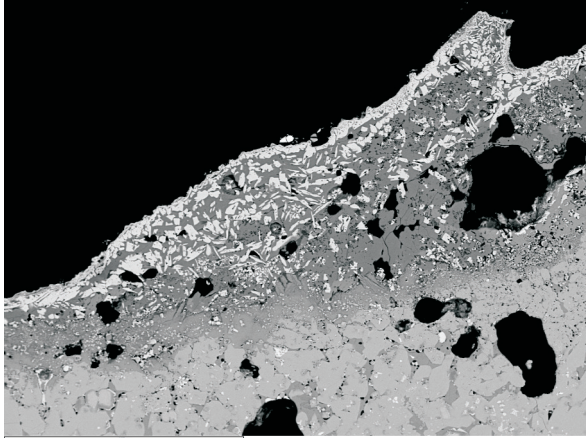
e



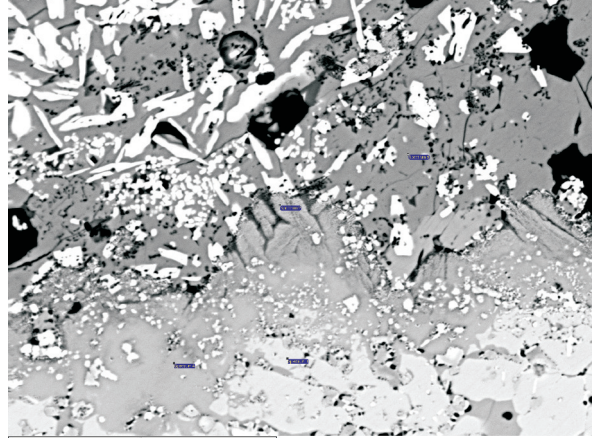
f



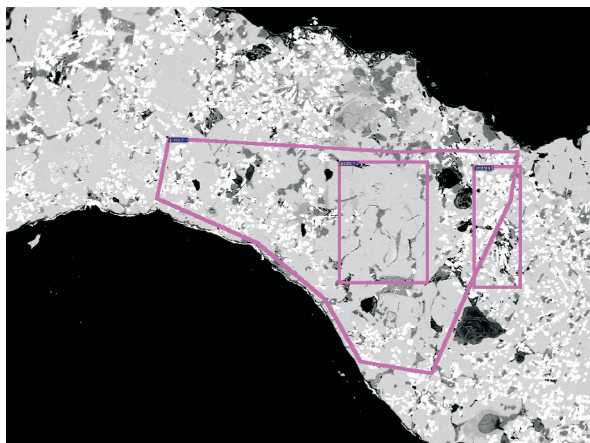
g



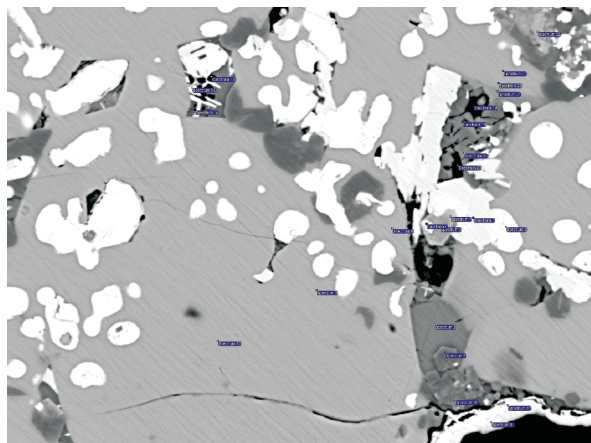
h



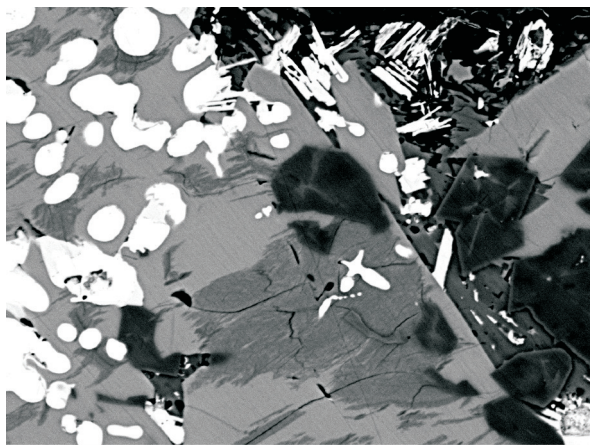
a



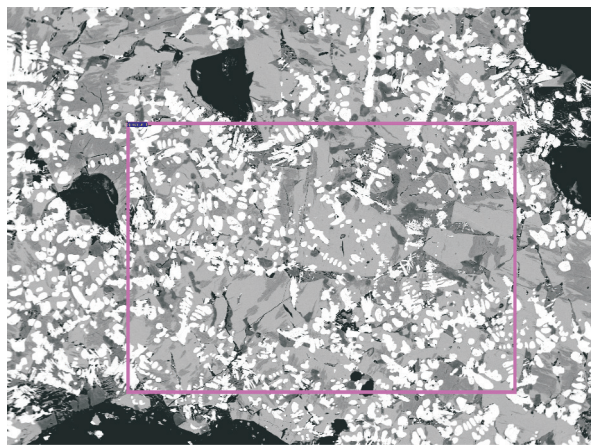
b



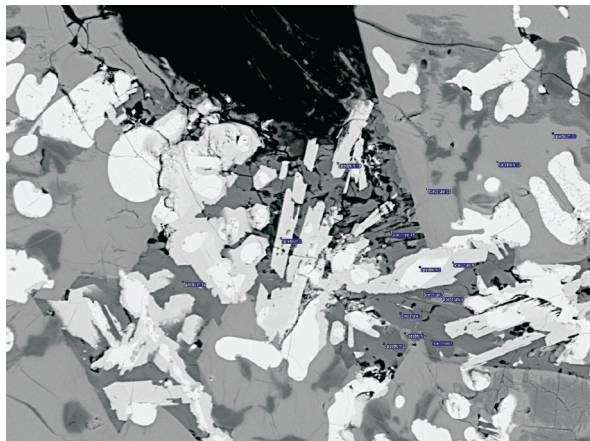
c



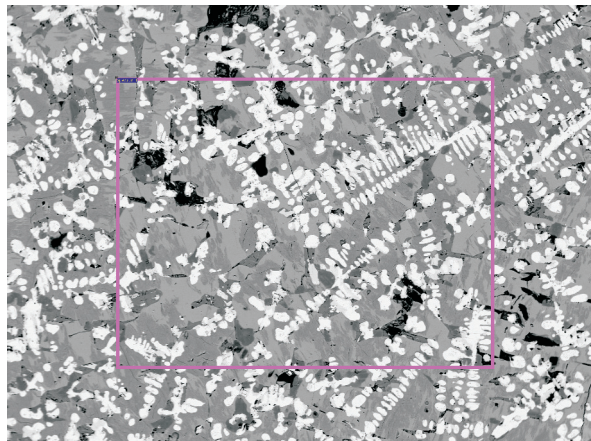
d



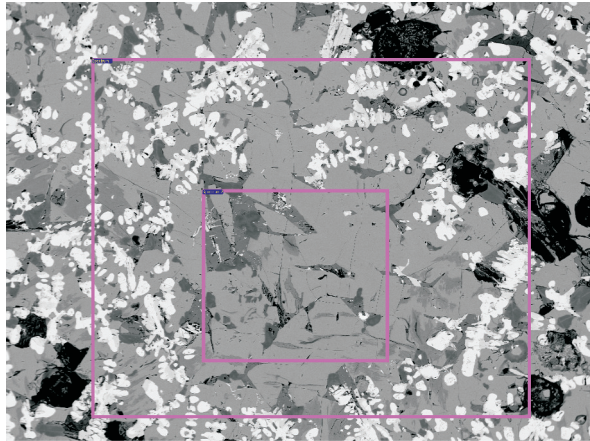
e



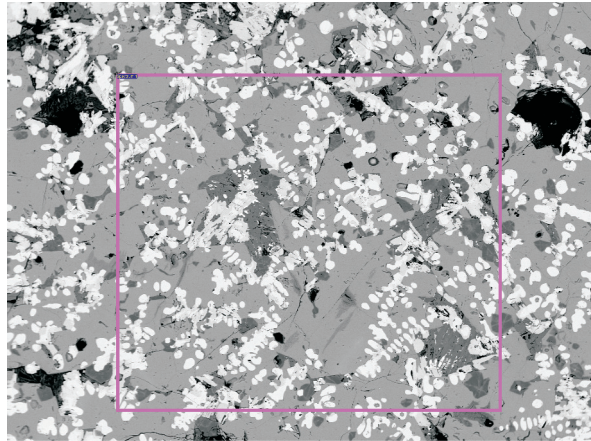
f



g



h



a

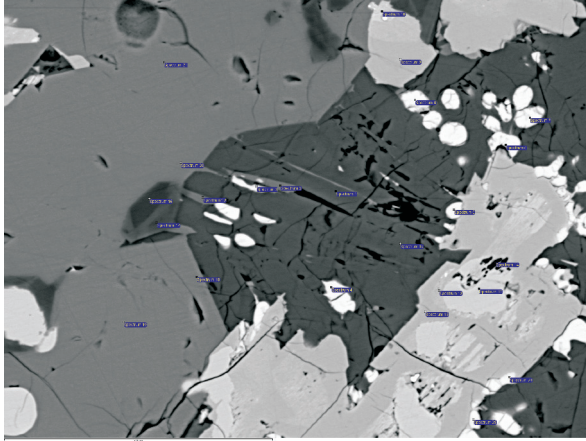
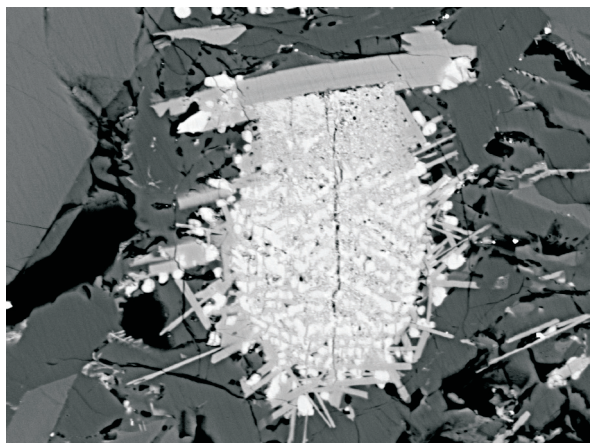
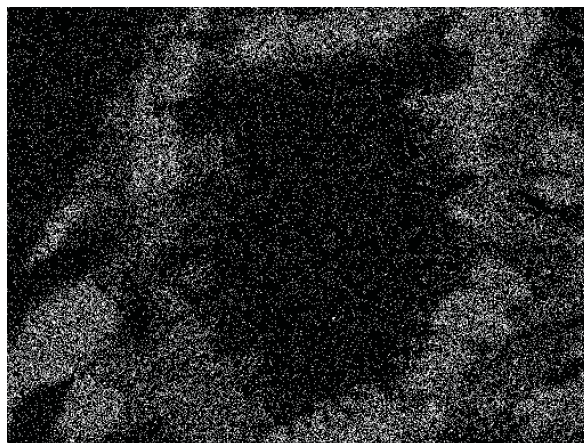


Plate C53

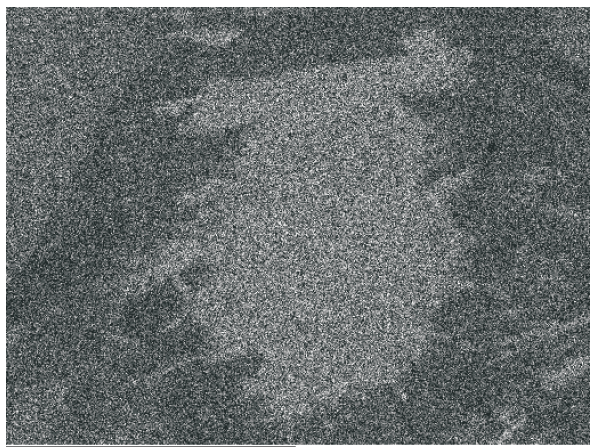
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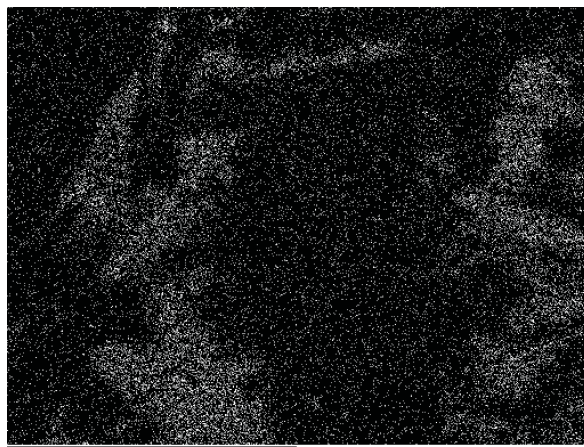
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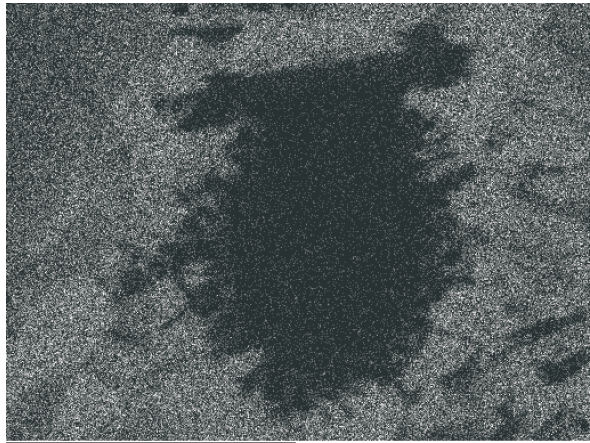
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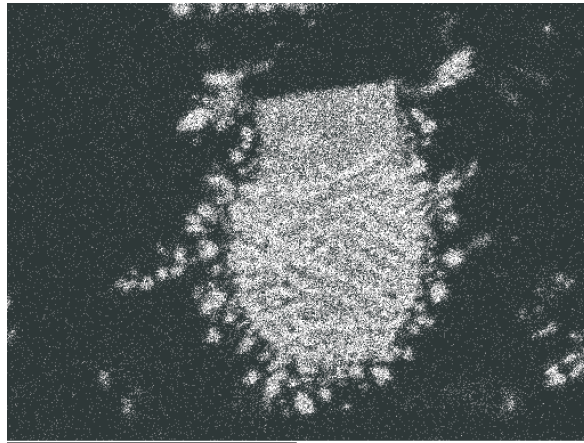
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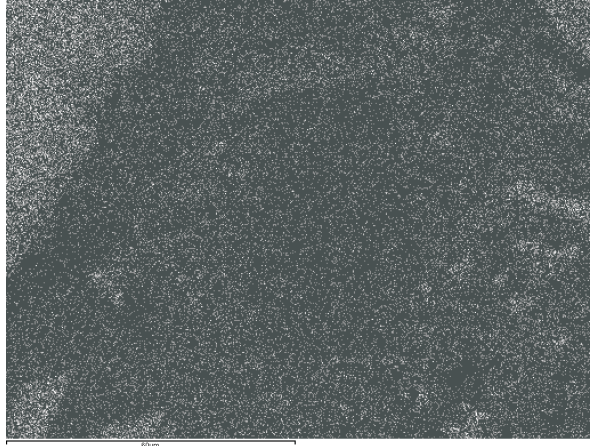
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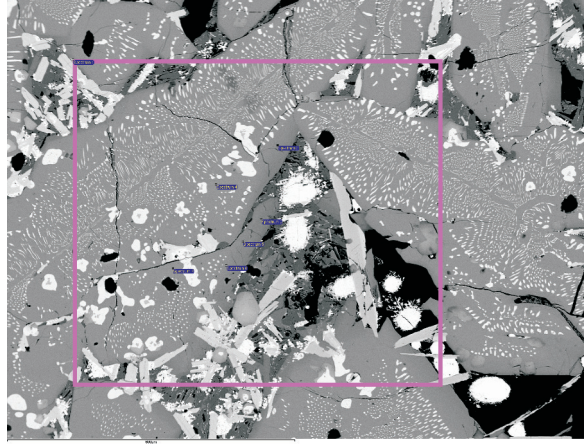
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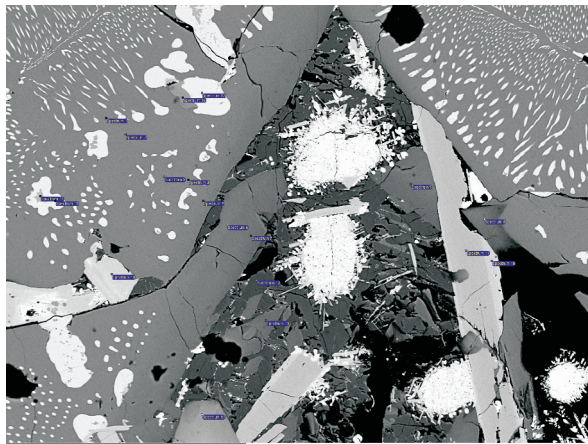
g



h

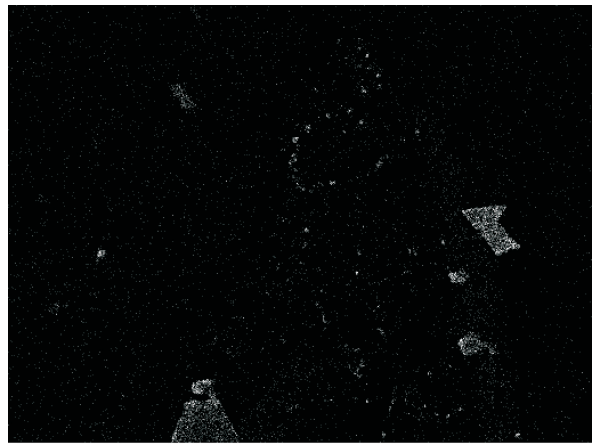


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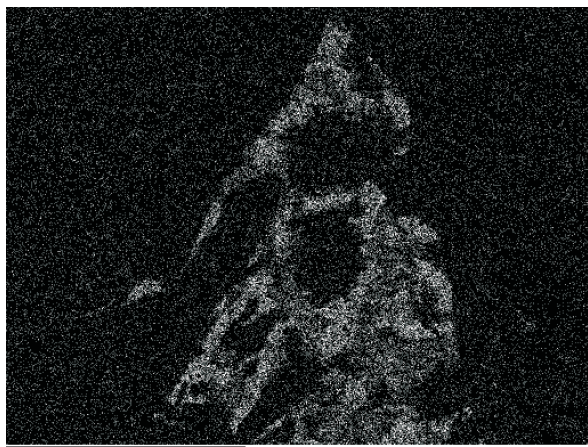


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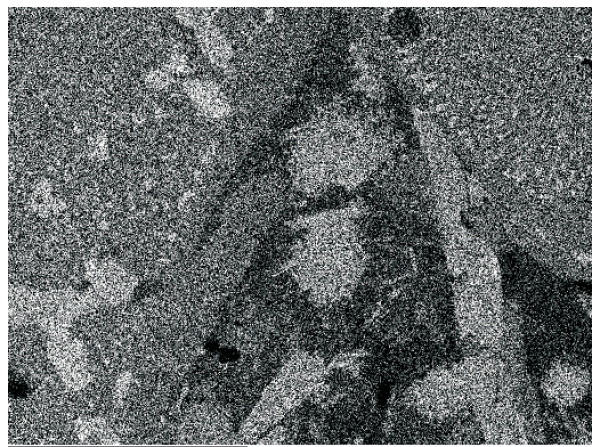
Plate C55



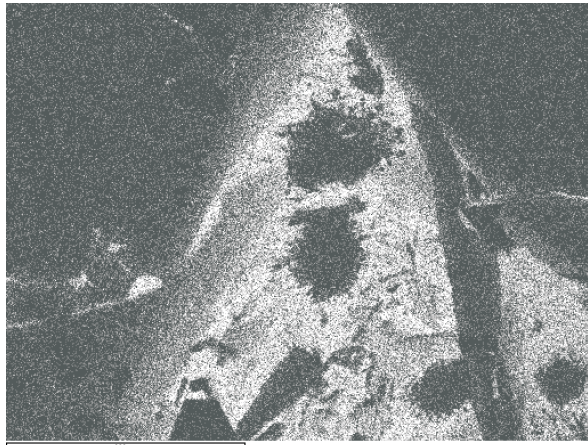
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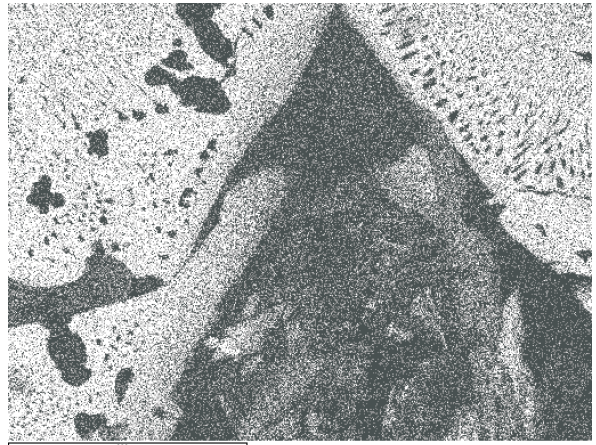
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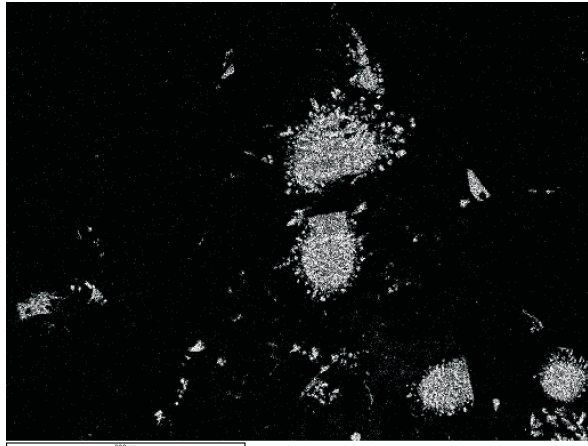
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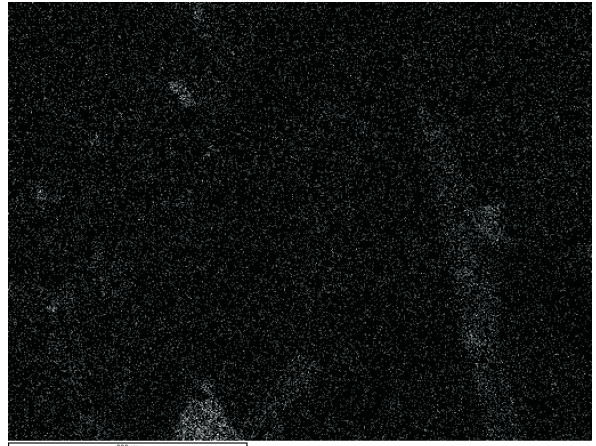
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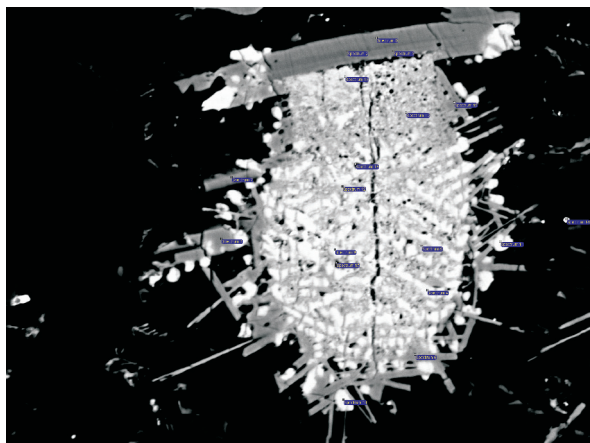
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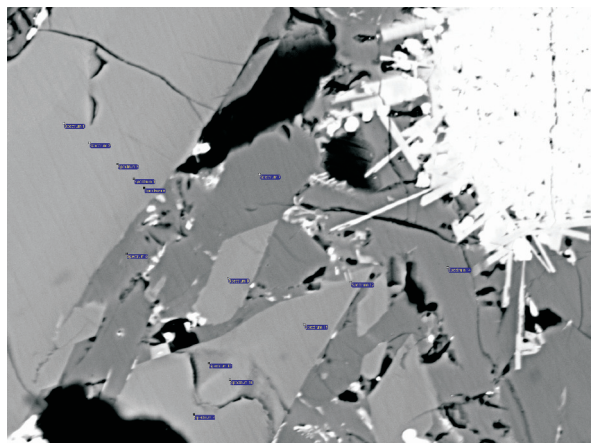
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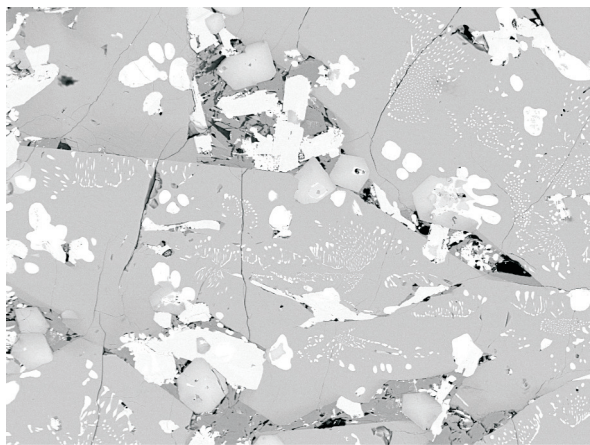
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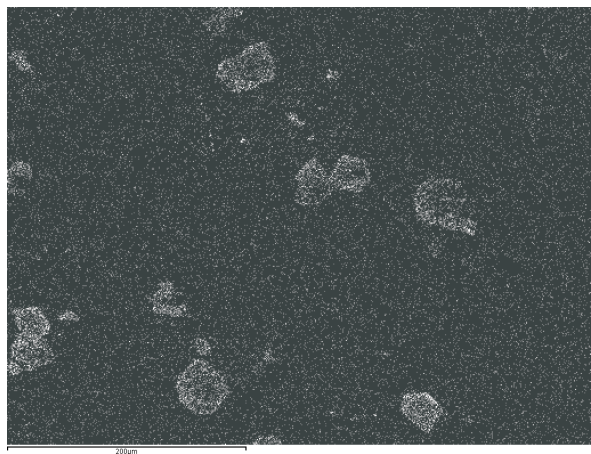
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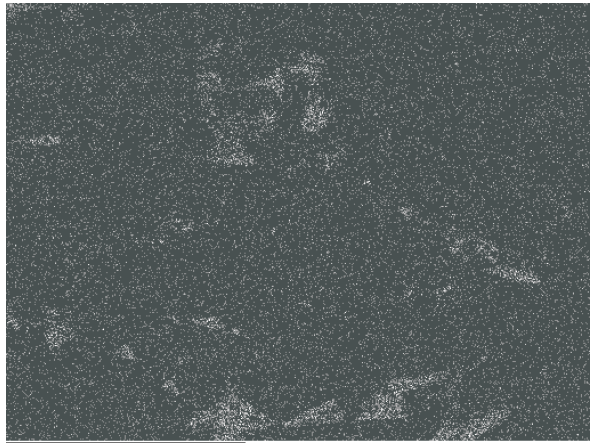
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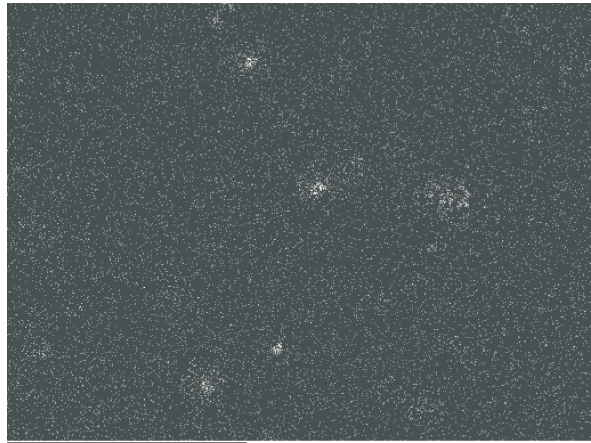
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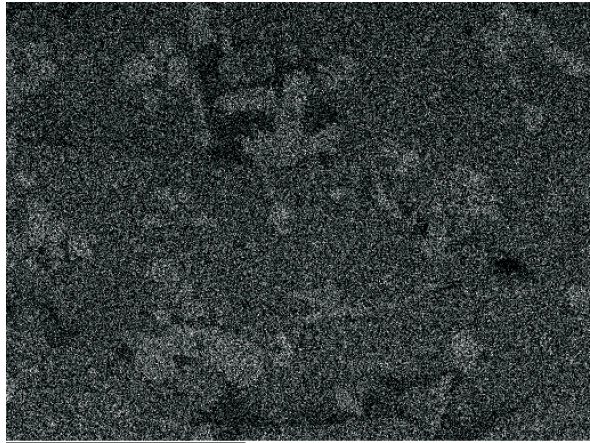
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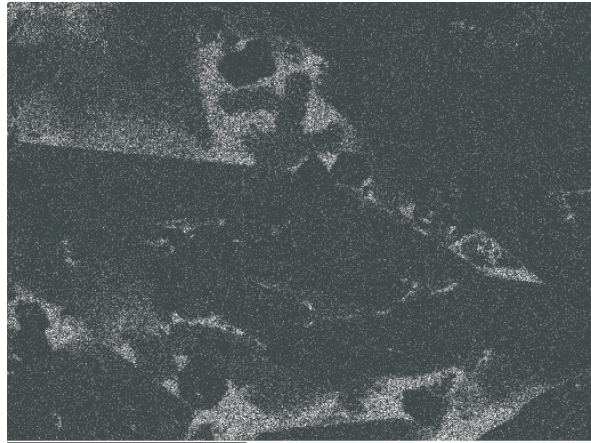
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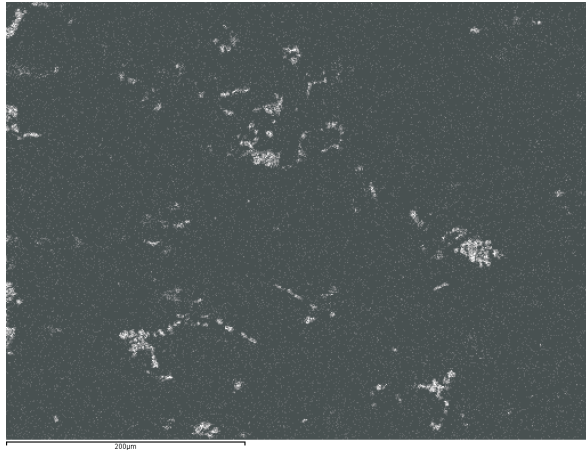
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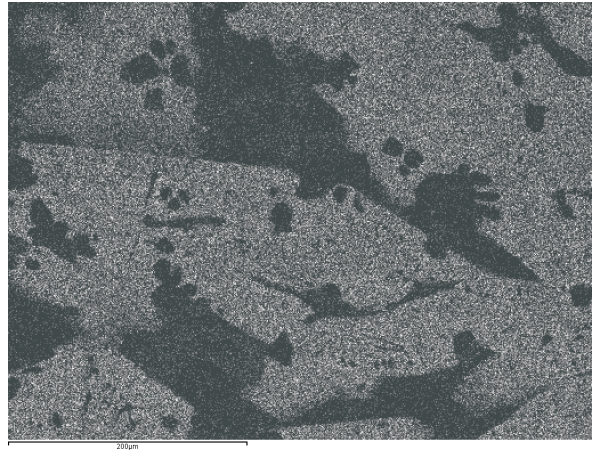


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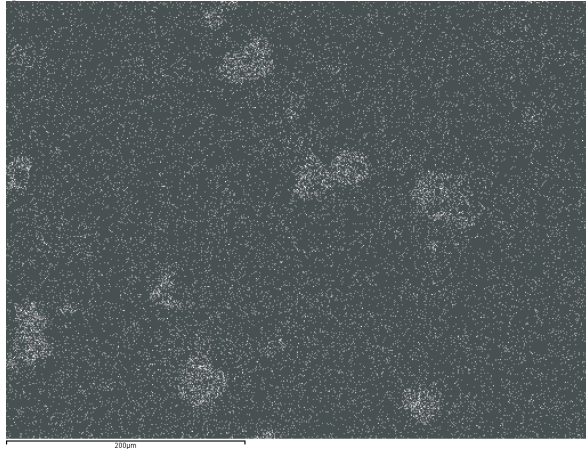


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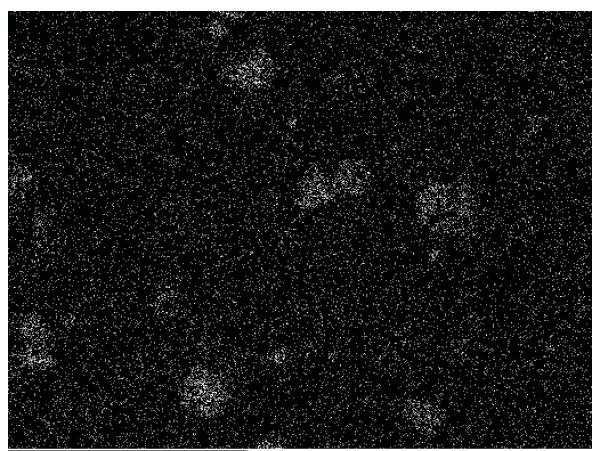
Plate C57



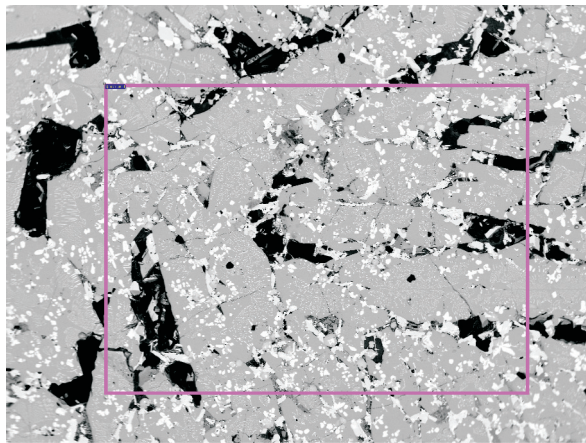
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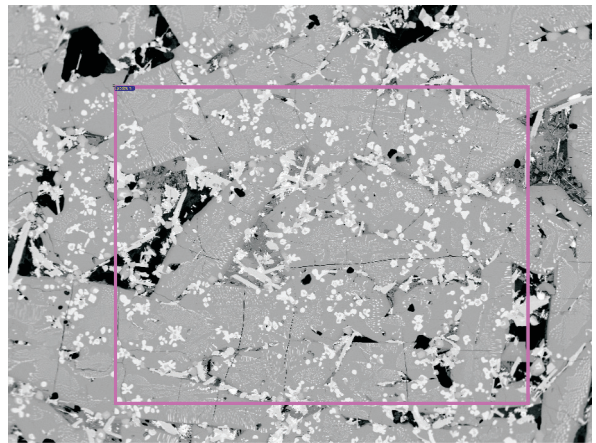
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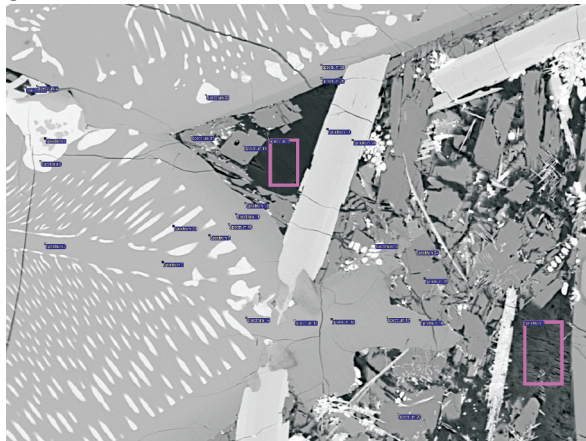
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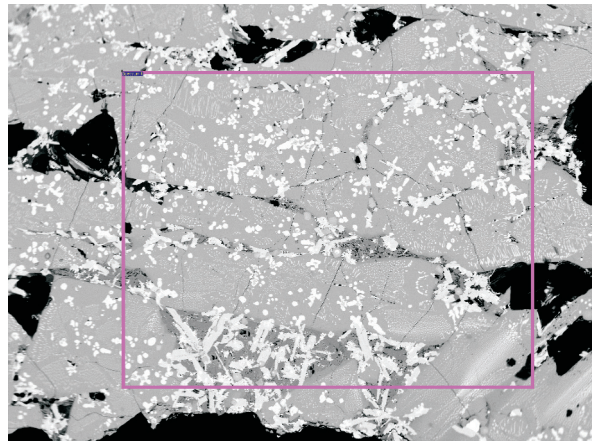
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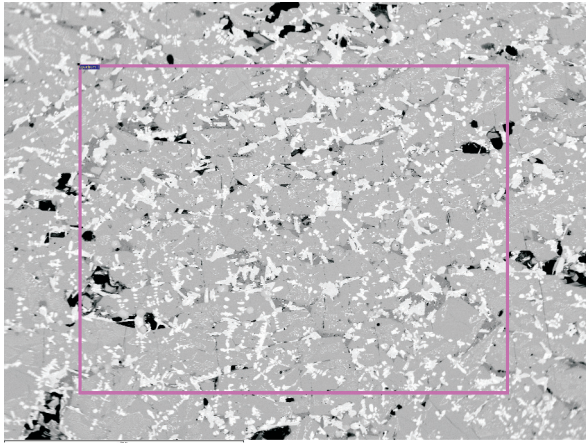
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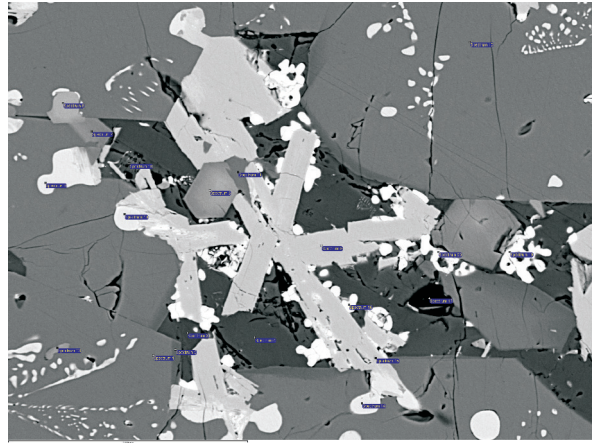


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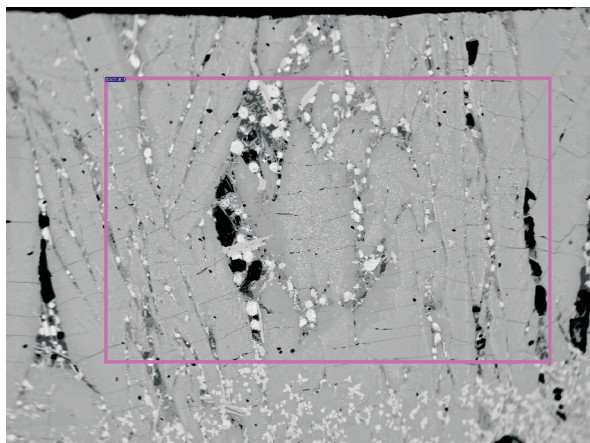


b

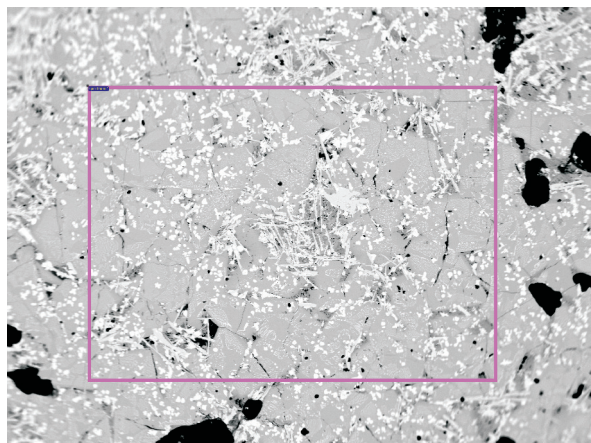
Plate C58



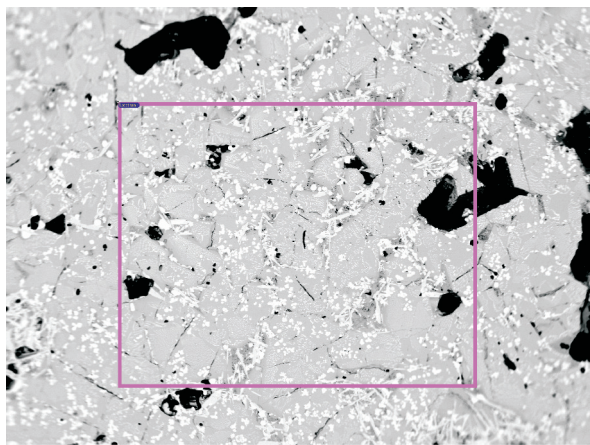
a



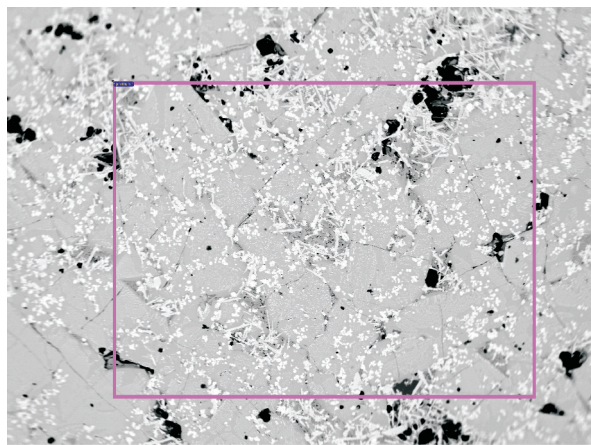
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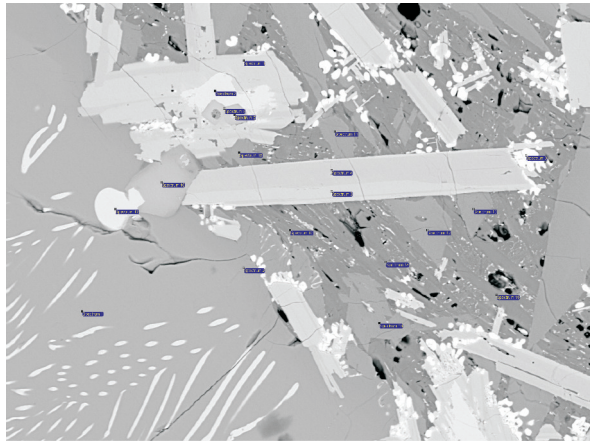
c



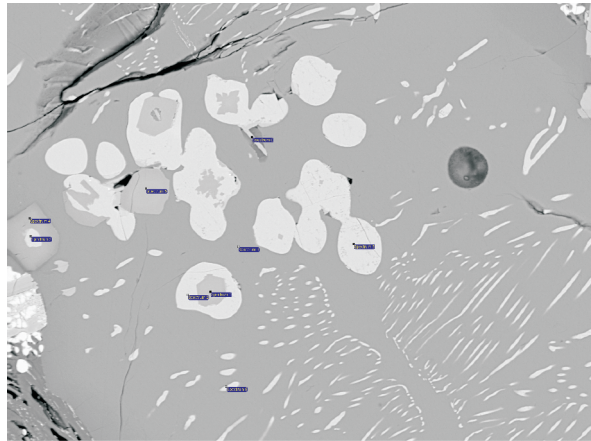
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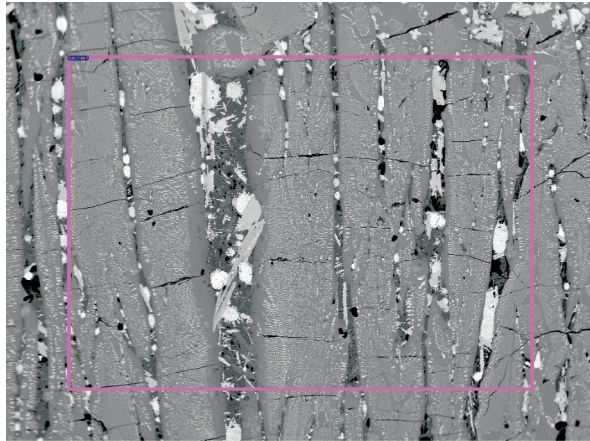
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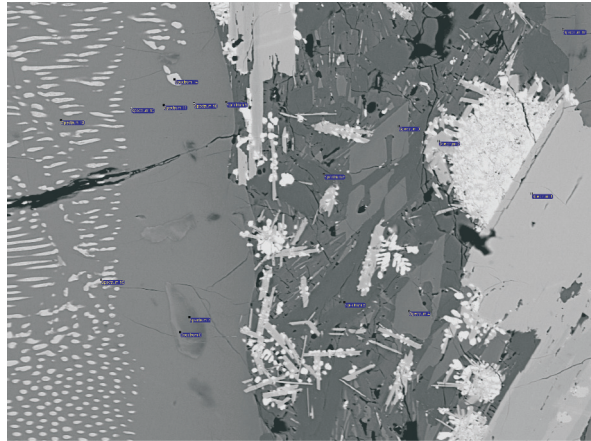
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