

Sample	J02	J02A	J03	J12	J15	J25B	J25D	J33	J34B	J36	J38	J39	ER.14A	ER.14B	ER.14C	ER.16	ER.118	BS-465	4540
SiO ₂	48.83	48.69	71.46	47.84	47.73	45.07	49.29	47.53	48.54	46.29	48.19	48.90	76.43	74.70	75.39	67.59	71.34	78.60	76.30
MgO	6.65	6.97	0.45	6.47	6.13	7.40	6.66	7.22	7.33	8.02	7.66	6.12		0.08	0.08	0.30	0.55	0.15	0.02
TiO ₂	2.48	2.04	0.62	2.53	2.80	2.50	2.44	2.77	1.84	1.83	1.89	2.80	0.29	0.22	0.22	0.56	0.64	0.20	0.13
Al ₂ O ₃	13.92	14.16	12.14	14.15	13.35	14.53	14.23	14.70	14.40	15.63	14.91	13.68	11.89	11.42	11.57	12.50	12.05	10.50	10.62
Fe ₂ O ₃ T	13.99	13.37	5.79	15.31	14.76	15.94	14.64	15.12	12.29	13.98	12.56	15.77	0.92	3.51	3.70	7.43	6.76	2.13	1.84
MnO	0.21	0.20	0.07	0.23	0.22	0.24	0.21	0.22	0.17	0.20	0.18	0.22		0.07	0.07	0.14	0.10	0.02	0.01
CaO	11.06	10.99	1.61	10.97	10.78	11.18	10.07	10.18	11.32	11.29	11.51	10.48	0.83	0.46	0.39	1.77	0.54	0.29	0.85
Na ₂ O	1.22	1.87	2.82	0.88	2.25	0.98	0.90	0.96	2.23	1.14	1.39	1.02	3.47	2.82	3.12	4.19	3.45	2.50	3.88
K ₂ O	0.31	0.27	4.01	0.23	0.23	0.28	0.16	0.17	0.23	0.20	0.20	0.24	5.27	5.35	5.00	4.50	4.09	5.20	5.48
P ₂ O ₅	0.30	0.27	0.14	0.40	0.35	0.26	0.36	0.32	0.18	0.23	0.21	0.28	0.02	0.03	0.02	0.16	0.16		0.01
LOI	0.70	0.90	0.60	0.70	1.10	1.30	0.80	0.50	1.20	0.90	1.00	0.20	0.73	0.76	0.52	1.21	0.58	0.44	
Total	99.67	99.73	104.92	99.71	16898.98	99.68	99.76	99.69	99.73	11083.14	99.70	99.71	99.03	98.32	99.71	99.61	100.00		
Ni	61.00	83.00		63.00	122.00	81.00	55.00	72.00	90.00	94.00	91.00	61.00	3.00	3.00	8.00	8.00		18.00	
Cr	143.68	218.94		184.73	102.63	143.68	102.63	82.10	205.26	102.63	232.63	75.26	5.00	6.00	11.00	7.00		15.00	
Sc	37.00	39.00	7.00	43.00	36.00	41.00	38.00	35.00	37.00	39.00	37.00	38.00	2.00	2.00	2.00	9.80	7.40		
Co	45.60	46.40	5.70	47.60	62.20	53.30	46.00	51.90	50.00	53.60	48.90	52.10					5.00		
V	354.00	346.00	20.00	389.00	369.00	401.00	383.00	367.00	306.00	339.00	311.00	389.00	1.00	1.00		6.00	19.00		
Ba	101.00	35.00	1028.00	61.00	139.00	52.00	11.00	21.00	70.00	109.00	52.00	42.00	165.00	118.00	111.00	658.00	1598.00	178.00	131.00
Sr	307.30	183.80	95.00	140.60	338.60	161.90	137.00	275.70	226.50	221.20	236.50	176.70	25.00	12.00	16.00	70.00	92.00		34.00
Rb	2.40	1.10	148.30	1.20	3.40	1.30	1.00	0.80	1.40	1.20	1.00	0.90	245.00	278.00	258.00	222.00	106.00	400.00	512.00
Nb	23.80	17.50	35.00	20.40	25.60	18.40	16.80	24.40	13.20	12.40	14.90	22.00	122.00	109.00	101.00	87.00	23.00		39.00
Y	33.30	29.10	127.00	55.00	43.10	38.20	34.50	32.80	23.50	33.10	24.50	37.20	135.00	351.00	251.62	163.03	78.46		127.00
Zr	217.40	169.30	497.50	212.90	223.80	197.70	158.10	189.40	118.50	141.30	142.70	191.00	774.00	695.00	706.00	877.00	522.00	470.00	314.00
La	28.50	17.80	136.90	39.00	33.40	27.20	19.00	24.30	17.50	24.50	20.30	22.90	78.75	515.20	229.71	164.52	171.95	92.50	145.60
Ce	57.30	36.30	243.80	62.90	62.80	51.20	42.40	52.20	22.30	42.50	39.50	48.00	149.20	397.90	418.41	297.21	260.42	217.00	259.10
Pr	7.08	4.72	26.89	10.02	8.35	7.47	5.55	6.52	4.63	6.13	5.04	6.30							
Nd	29.00	19.80	96.30	42.00	35.50	31.70	24.20	28.00	19.30	25.80	21.60	26.60	56.72	354.20	167.35	120.10	122.22	50.70	93.00
Sm	6.93	5.25	18.75	9.97	8.32	7.25	6.12	6.64	4.03	5.75	4.68	6.44	11.47	66.76	37.56	25.58	22.34	15.60	17.76
Eu	2.05	1.62	2.27	3.21	2.57	2.36	2.10	2.26	1.58	1.88	1.62	2.11	0.58	2.45	2.00	2.88	4.03	0.41	0.50
Gd	7.13	5.40	18.56	11.75	8.71	7.95	6.76	7.15	4.70	6.16	5.31	7.17	12.98	61.29	30.48	20.92	16.84	8.20	17.41
Tb	1.16	0.94	2.82	1.82	1.41	1.29	1.10	1.12	0.75	1.02	0.86	1.20							
Dy	6.52	5.48	17.24	11.05	8.19	7.75	6.67	6.58	4.21	6.09	4.82	7.41	20.60	59.77	32.38	21.79	14.18	9.30	19.70
Ho	1.24	1.11	3.50	2.22	1.56	1.42	1.33	1.19	0.83	1.25	0.92	1.38						2.30	4.45
Er	3.63	2.89	10.95	5.60	4.47	4.13	3.55	3.35	2.37	3.63	2.53	3.80	13.46	31.15	17.14	11.20	6.56	7.60	13.54
Tm	0.51	0.45	1.47	0.77	0.58	0.61	0.53	0.47	0.33	0.51	0.38	0.56						1.30	
Yb	2.99	2.82	8.64	4.45	3.76	3.77	3.17	2.81	2.26	3.19	2.35	3.41	13.76	26.43	17.60	12.12	6.55		13.81
Lu	0.46	0.40	1.34	0.65	0.54	0.52	0.47	0.44	0.32	0.46	0.37	0.51	2.08	3.93	2.53	1.87	0.94	1.30	1.59
Hf	5.40	4.20	13.10	4.80	5.30	5.00	4.10	4.50	3.00	3.50	3.50	4.90	27.50	25.30					
Ta	1.50	1.20	2.30	1.10	1.30	1.10	1.10	1.30	0.80	0.90	0.90	1.00	8.30	8.00					
Pb	11.00	3.50	12.20	4.60	0.70	2.60	2.50	3.70	0.80	3.10	21.10	3.00						100.00	100.00
Th	2.30	2.10	31.90	2.00	2.30	2.30	1.40	1.90	1.10	1.10	1.20	2.10	46.00	47.00	48.00	38.00	16.00		72.00
U	0.60	0.60	5.00	0.70	0.70	0.50	0.30	0.50	0.40	0.40	0.40	0.50	10.50	9.69					15.00
S																		100.00	
F																		1300.00	
Cu	77.50	64.90		20.70	116.60	6.70	80.70	124.70	39.10	131.40	10.20	51.00	5.00	3.00	12.00	18.00	8.00		44.00

Sample	J02	J02A	J03	J12	J15	J25B	J25D	J33	J34B	J36	J38	J39	ER.14A	ER.14B	ER.14C	ER.16	ER.118	BS-465	4540
Zn													68.00	81.00	55.00	204.00	77.00	115.00	65.00
Ga													32.00	37.00	36.00	30.00	18.00		35.50
Be													1.00	3.00	3.50	4.00	1.60		11.30
Ag	<0.1	0.20		<0.1		<0.1	0.10	<0.1	<0.1		<0.1	<0.1							
As	0.60	<0.5		<0.5		0.60	<0.5	<0.5	0.60		<0.5	<0.5							
Au	<0.5	0.50		<0.5		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5							
Sn																			
Mo																			
Reference	This study	This study	This study	This study	This study	This study	This study	This study	This study	This study	This study	This study	Dussin (1994)	Dussin (1994)	Dussin (1994)	Dussin (1994)	Dussin (1994)	res Filho (1994)	Fernandes

Sample	5077	5086	5088	5218	5219	5220	A.111b	A.211	A.220	A.69B	Ac	AK 016	AK 048	AK 147	AK162	FDG-1	FDG-2	FDG-3	FDG-4
SiO ₂	76.20	76.10	73.40	71.00	77.50	74.70	74.05	71.30	75.10	67.80	74.30	74.74	73.36	73.96	73.55	73.80	73.90	73.00	73.90
MgO	0.02	0.03	0.09	0.01	0.01	0.09	0.04	0.06	0.04	0.40	0.25	0.04	0.16	0.02	0.05	0.19	0.09	0.06	0.17
TiO ₂	0.26	0.23	0.19	0.10	0.10	0.20	0.21	0.30	0.17	0.62	0.21	0.23	0.40	0.15	0.19	0.29	0.27	0.25	0.28
Al ₂ O ₃	10.81	11.04	12.13	13.72	10.98	11.43	11.70	12.60	11.20	12.40	12.20	11.94	12.13	11.90	12.71	10.80	11.10	11.20	11.30
Fe ₂ O ₃ T	3.01	2.30	2.52	2.52	1.73	2.27	1.04	3.40	2.22	7.79	2.60	3.11	4.12	2.70	2.48	3.25	3.20	3.20	3.73
MnO	0.03	0.02	0.03	0.02	0.01	0.02	0.02	0.05	0.05	0.14	0.03	0.04	0.05	0.03	0.04	0.03	0.03	0.04	0.04
CaO	0.70	0.77	0.60	0.61	0.65	0.87	0.85	1.10	0.72	2.10	0.95	0.95	1.52	1.17	0.78	1.10	1.00	1.10	0.89
Na ₂ O	5.03	4.38	4.99	5.19	4.65	4.58	2.90	4.20	3.60	3.90	3.20	3.25	2.90	3.31	3.08	3.50	3.70	3.60	3.60
K ₂ O	5.30	5.48	5.25	5.90	5.60	5.25	6.30	5.70	5.60	4.20	5.80	5.23	4.77	5.03	5.41	5.90	5.50	5.60	5.40
P ₂ O ₅	0.02	0.02	0.01	0.01	0.01	0.03				0.15	0.05					0.20	0.16	0.07	0.05
LOI							0.88	1.29	1.40	1.10									
Total							98.17	99.78	100.00	99.98		99.79	99.76	98.86	98.29	99.90	99.72	99.81	99.85
Ni																16.00	18.00	13.00	18.00
Cr																			
Sc										18.00									
Co												0.00	6.00	0.00	0.00				
V										56.00		0.00	6.00	0.00	0.00	37.00	36.00	58.00	60.00
Ba	272.00	705.00	499.00	67.00	75.00	471.00	160.00	950.00	360.00	640.00	840.00	471.00	1230.00	199.00	1010.00	358.00	358.00	448.00	448.00
Sr	27.00	5.00	38.00	15.00	15.00	94.00	35.00	93.00	51.00	60.00	120.00	36.00	123.00	24.00	60.00	25.00	30.00	37.00	30.00
Rb	217.00	209.00	254.00	529.00	456.00	233.00	360.00	190.00	280.00	230.00	230.00	204.00	150.00	245.00	145.00	250.00	330.00	300.00	270.00
Nb	56.00	34.00	51.00	183.00	58.00	15.00	50.00	62.00	28.00	57.00	28.00	117.00	25.00	60.00	31.00	73.00	84.00	81.00	86.00
Y	103.00	70.00	72.00	85.00	120.00	48.00	72.00	92.00	22.00	120.00	140.00	148.00	73.00	191.00	89.00	110.00	130.00	130.00	130.00
Zr	621.00	381.00	426.00	137.00	262.00	297.00	220.00	410.00	270.00	960.00		660.00	586.00	528.00	745.00	510.00	530.00	550.00	580.00
La	234.60	137.60	130.50	77.30	79.90	95.30	156.80	337.60	90.27	162.80	214.60	154.00	80.00	204.00	168.00	143.70	140.60	125.10	160.90
Ce	438.60	251.20	242.40	145.40	159.20	180.50	283.10	591.00	163.90	295.80	231.20	247.00	150.00	329.00	125.00	258.40	245.70	225.60	278.20
Pr												32.10	17.30	40.60	34.10				
Nd	178.10	102.10	100.60	52.50	62.10	68.60	121.60	269.60	69.87	127.00	145.80	117.00	67.00	142.00	125.00	99.00	94.10	94.40	104.40
Sm	30.32	17.97	19.09	10.99	13.47	11.71	32.10	59.60	18.64	25.70	28.35	23.00	13.00	27.00	23.00	21.80	20.80	22.00	21.70
Eu	1.13	1.54	1.41	0.32	0.50	0.88	0.89	4.60	0.99	2.80	2.12	1.23	1.94	0.66	2.06	1.50	1.30	1.50	1.60
Gd	24.73	15.82	17.71	11.07	14.40	9.61	22.33	38.85	13.80	22.10	29.14	22.00	12.00	25.00	20.00	18.00	17.70	18.90	17.70
Tb												3.80	2.00	4.30	3.00				
Dy	20.25	13.44	14.75	12.99	17.52	8.22	21.01	27.68	12.14	21.30	27.99	23.00	12.00	26.00	16.00	16.40	17.10	17.70	15.90
Ho	4.25	2.83	2.98	2.94	4.08	1.75					6.01	4.40	2.20	5.10	2.90	3.10	3.20	3.30	2.90
Er	11.25	7.59	7.73	8.63	12.45	4.58	11.31	14.43	7.56	13.20	17.34	14.00	7.20	17.00	8.30	9.90	10.60	10.50	9.30
Tm												2.05	0.70	2.48	1.04	1.37	1.38	1.36	1.31
Yb	10.00	6.91	6.27	9.00	12.91	4.10	8.82	11.38	5.96	11.30	15.55	11.00	6.12	14.00	5.10	7.80	9.60	9.30	7.50
Lu	1.19	0.82	0.70	1.02	1.53	0.47	1.02	1.45	0.79	1.40	1.82	1.63	0.92	2.05	0.62	0.84	1.10	1.02	0.82
Hf	16.00		9.00									21.00	14.00	19.00	22.00				
Ta	7.00			20.00								4.30	2.30	2.10	1.30	15.00	15.00	15.00	15.00
Pb	78.00	79.00	72.00	109.00	83.00	71.00					23.00	32.00	30.00	26.00	15.00	26.00	36.00	33.00	38.00
Th	50.00	45.00	40.00	119.00	86.00	49.00						42.00	19.00	4.40	31.00	28.00	25.00	20.00	26.00
U				33.00							20.00	5.60	4.70	4.60	3.40				
S																			
F											2800.00					2800.00	3450.00	2400.00	2600.00
Cu	2.50	3.70	2.90	2.80	10.00	8.50	2.00	4.00		6.00	3.00					10.00	21.00	30.00	20.00

Sample	5077	5086	5088	5218	5219	5220	A.111b	A.211	A.220	A.69B	Ac	AK 016	AK 048	AK 147	AK162	FDG-1	FDG-2	FDG-3	FDG-4
Zn	102.00	85.00	90.00	40.00	37.00	39.00	160.00	75.00	86.00	196.00	89.00	93.00	78.00	47.00	50.00				
Ga	24.90	31.10	34.80	39.50	27.70	23.40	21.00	19.00	18.00	30.00	20.00	31.00	22.00	25.00	24.00	34.00	33.00	30.00	33.00
Be	4.40	4.10	7.10	7.60	2.80	5.10	8.00	3.00	2.00	3.00	2.00								
Ag												0.00	1.10	0.00	1.40				
As																			
Au																			
Sn												8.00	5.00	4.00	1.00				
Mo												0.00	7.00	4.00	2.00				
Reference	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Dussin (199	Dussin (199	Dussin (199	Dussin (199	Grossi-Sad	Oliveira (20	Oliveira (20	Oliveira (20	Oliveira (20	Chemale (1	Chemale (1	Chemale (1	Chemale (1

Sample	FDG-5	FDG-6	FDG-7	FSD-006-501	Grn	IT.106	Ita	Pt	PTG-036-003	PTG-060	PTG-172-001	SdP	SF	SF.145	SF.52	SF.90	SFx	SP	SP.101A
SiO ₂	74.50	73.60	74.20	74.87	74.50	71.50	74.26	75.07	71.58	74.44	75.61	74.50	74.50	72.70	76.45	72.54	76.20	76.20	75.60
MgO	0.02	0.09	0.06	0.54	0.36	0.28	0.10	0.06	0.42	0.27	0.19	0.04	0.04	0.08	0.03	0.00	0.13	0.13	0.21
TiO ₂	0.26	0.22	0.25	0.22	0.19	0.35	0.23	0.24	0.38	0.15	0.24	0.21	0.21	0.29	0.13	0.16	0.20	0.20	0.22
Al ₂ O ₃	11.20	11.60	11.00	11.93	11.80	13.00	11.45	12.43	13.40	13.67	13.13	11.70	11.70	12.60	12.17	13.27	11.40	11.40	12.70
Fe ₂ O ₃ T	3.25	3.00	3.10	2.20	2.55	4.45	3.52	2.06	3.26	1.34	2.31	2.10	2.10	3.58	2.24	2.47	2.10	2.02	1.59
MnO	0.04	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.04	0.03	0.03	0.02	0.02	0.05	0.00	0.02	0.02	0.02	0.04
CaO	0.89	0.83	0.88	0.71	0.82	1.30	0.89	0.75	2.06	0.92	2.32	0.82	0.82	0.98	0.70	0.92	0.67	0.67	1.60
Na ₂ O	3.70	3.80	3.70	1.84	3.50	4.10	3.55	3.23	2.27	3.59	3.84	0.90	2.90	2.50	3.10	2.93	3.10	3.10	3.80
K ₂ O	5.60	6.10	5.70	6.57	5.40	4.70	5.37	5.02	5.60	5.12	1.86	6.30	6.30	6.40	5.18	6.64	5.20	5.20	4.00
P ₂ O ₅	0.05	0.05	0.06	0.02	0.05		0.06	0.01	0.10	0.06	0.05	0.14	0.14		0.02	0.03	0.18	0.18	
LOI				0.90		0.60			0.50	0.30	0.20			1.07	0.36	0.68			0.42
Total	99.91	99.66	99.61	99.84		99.95			99.60	99.86	99.77			99.99	100.16	99.41			100.16
Ni	18.00	16.00	18.00	1.90			12.00	15.50	1.90	3.70	1.50				6.90	4.60			
Cr															3.80	10.30			
Sc														9.00	2.00	2.30			
Co				0.60					3.40	1.80	2.40				0.60	0.50			
V	53.00	50.00	45.00		10.00				25.00	9.00		52.00			1.20	0.50	68.00		61.00
Ba	448.00	448.00	358.00	299.00	390.00	1200.00	260.00	522.00	1502.00	870.00	880.00	160.00	160.00	2240.00	229.00	823.00	260.00	260.00	740.00
Sr	37.00	38.00	31.00	28.30	30.00	140.00	32.00	40.00	172.80	129.60	187.80	35.00	35.00	160.00	31.60	54.20	30.00	30.00	140.00
Rb	280.00	300.00	330.00	287.40	330.00	160.00	289.00	295.00	192.30	231.60	43.90	360.00	360.00	170.00	242.00	265.00	400.00	400.00	160.00
Nb	78.00	68.00	82.00	35.50	56.00	26.00	72.00	50.00	31.10	10.50	26.90	50.00	50.00	54.00	19.50	22.60	48.00	48.00	36.00
Y	110.00	100.00	130.00	84.00	62.00	28.00	134.00	165.00	139.00	27.10	95.20	72.00	72.00	240.00	80.50	113.00	49.00	49.00	23.00
Zr	520.00	430.00	460.00	435.40		520.00	500.00	334.00	605.30	126.50	402.20	220.00	220.00	580.00	218.00	270.00	280.00	280.00	400.00
La	136.10	111.80	151.30	110.90	105.20	22.90	132.52	62.47	227.10	36.80	82.30	156.80	156.00	43.40	85.73	151.90	147.70	147.70	135.10
Ce	236.40	200.00	261.90	233.70	172.80	63.10	234.02	151.50	470.80	73.90	234.80	283.10	283.10	88.80	170.60	277.00	256.90	250.90	217.00
Pr				23.70					49.40	7.66	19.42								
Nd	90.10	76.90	98.10	85.50	80.58	31.50	92.19	72.11	176.90	24.50	70.90	121.60	121.60	53.40	66.07	105.40	104.10	104.10	97.21
Sm	19.10	17.30	21.20	16.01	14.82	7.50	19.84	13.92	31.35	4.55	13.97	32.31	32.31	10.90	13.53	20.16	26.35	26.35	22.05
Eu	1.30	1.20	1.40	0.68	0.89	2.10	1.33	0.78	2.89	0.48	2.22	0.89	0.89	3.30	0.49	1.07	0.98	0.98	1.50
Gd	16.40	14.70	18.20	15.18	12.66	7.20	16.78	11.82	28.28	4.23	13.78	22.33	23.33	9.40	12.24	18.14	18.17	18.17	13.29
Tb				2.54					4.60	0.75	2.65								
Dy	15.40	13.90	18.30	14.46	11.25	7.10	15.74	9.96	26.08	4.29	16.00	21.01	21.01	6.80	13.16	18.17	17.91	17.91	10.09
Ho	2.80	2.60	3.50	2.98	2.38		2.91	2.09	5.20	0.89	3.47	3.79	3.79				3.44	3.44	
Er	9.30	8.50	11.80	8.38	7.08	4.20	6.41	6.18	13.44	2.63	10.15	11.31	11.31	3.10	7.60	10.25	10.94	10.94	5.71
Tm	1.21	1.05	1.62	1.22					1.85	0.40	1.44								
Yb	8.40	7.60	10.10	7.70	7.11	3.90	0.42	6.58	10.77	2.55	8.69	8.82	8.01	2.30	7.85	10.80	9.39	9.39	4.88
Lu	0.96	0.86	1.20	1.15	0.82	0.51	0.95	0.79	1.45	0.40	1.29	1.02	1.01	0.30	0.99	1.36	1.12	1.12	0.64
Hf				13.70					16.60	3.90	12.00				10.10	11.00			
Ta	15.00	15.00	15.00	2.60					1.90	1.40	1.20				1.50	2.60			
Pb	18.00	23.00	28.00	5.30	24.00		33.00	46.00	8.20	3.10	5.60	23.00	23.00				10.00	10.00	
Th	15.00	32.00	38.00	42.80			25.50		24.60	23.00	17.20				45.90	37.00			
U				8.60			34.00	11.50	3.70	6.10	2.30		52.00		6.70	8.00		60.00	
S																			
F	2400.00	2800.00	3250.00		2800.00		2631.00	5950.00				2700.00	2700.00				2500.00	2500.00	
Cu	27.00	55.00	47.00	2.30		7.00	21.50	20.00	1.80	56.90	45.00	2.00	2.00	14.00	2.30	6.60	6.00	6.00	

Sample	FDG-5	FDG-6	FDG-7	FSD-006-501	Grn	IT.106	Ita	Pt	PTG-036-003	PTG-060	PTG-172-001	SdP	SF	SF.145	SF.52	SF.90	SFx	SP	SP.101A
Zn				61.00	106.00	147.00	130.00	124.50	62.00	34.00	35.00	160.00	160.00	99.00	46.10	82.40	67.00	67.00	62.00
Ga	30.00	29.00	30.00	23.50	24.00	25.00	30.00	23.00	19.90	17.40	20.40	21.00	21.00	35.00	24.50	29.30	20.00	20.00	20.00
Be				3.00	5.00		5.00	7.00	2.00	2.00	2.00	8.00	8.00	2.00	5.40	6.00	8.00	8.00	7.00
Ag										0.10									
As				2.10					1.30	0.80	1.00								
Au				2.10							3.00								
Sn				9.00					3.00	4.00	2.00								
Mo				0.70					0.40	0.30	0.60								
Reference	Chemale (1999)	Chemale (1999)	Chemale (1999)	Braga (2012)	Grossi-Sad (1999)	Dussin (1999)	Grossi-Sad (1999)	Grossi-Sad (1999)	Braga (2012)	Braga (2012)	Braga (2012)	Knauer & G. (2009)	Grossi-Sad (1999)	Dussin (1999)	Dussin (1999)	Dussin (1999)	Knauer & G. (2009)	Grossi-Sad (1999)	Dussin (1999)

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Sample	SP.97A	Ur.197	Ur.35A	Ur.35B	Ur.48	Ur.6A	Ur.87
SiO2	76.20	70.90	69.00	70.50	70.10	72.20	71.93
MgO	0.13	0.18	0.29	0.24	0.22	0.40	0.12
TiO2	0.20	0.46	0.58	0.43	0.47	0.43	0.36
Al2O3	11.40	13.70	12.10	13.20	13.50	12.80	13.73
Fe2O3T	2.14	5.42	5.78	4.90	5.05	4.35	4.10
MnO	0.02	0.07	0.08	0.07	0.05	0.04	0.05
CaO	0.67	1.60	1.80	1.50	1.60	1.50	1.10
Na2O	3.10	3.00	4.20	4.10	4.00	3.10	3.07
K2O	5.20	4.30	5.40	4.60	4.80	4.60	5.42
P2O5	0.18	0.08	0.12	0.06	0.09	0.11	0.06
LOI	0.50	0.66	0.66	0.74	0.49	0.65	1.37
Total	100.00	99.92	99.50	99.88	99.93	99.91	100.89
Ni							1.10
Cr							1.80
Sc			10.00	7.00		18.00	3.90
Co						6.00	1.50
V			102.00	66.00		80.00	2.20
Ba	260.00	1020.00	1150.00	1180.00	1160.00	940.00	1419.00
Sr	30.00	120.00	150.00	140.00	150.00	140.00	120.00
Rb	400.00	200.00	140.00	150.00	190.00	250.00	141.00
Nb	48.00	44.00	36.00	26.00	26.00	20.00	22.30
Y	49.00	94.00	78.00	52.00	42.00	112.00	34.30
Zr	280.00	780.00	880.00	660.00	620.00	520.00	415.00
La	147.70	48.30	49.30	118.80	100.50	139.50	48.98
Ce	250.90	183.90	96.70	193.90	182.20	246.50	93.48
Pr							
Nd	104.10	63.20	59.90	79.50	73.80	101.10	41.84
Sm	26.35	15.80	14.30	14.40	13.80	19.80	7.87
Eu	0.98	2.20	2.50	2.60	2.50	2.30	2.25
Gd	18.17	16.10	12.80	12.00	11.70	17.20	6.60
Tb							
Dy	17.91	17.10	12.60	10.40	9.90	16.80	6.51
Ho							
Er	10.94	10.40	7.10	5.70	5.80	11.20	3.40
Tm							
Yb	9.39	9.00	5.90	4.60	5.10	10.70	3.63
Lu	1.12	1.10	0.73	0.55	0.65	1.30	0.49
Hf							12.40
Ta							1.30
Pb							
Th							8.20
U							1.00
S							
F							
Cu	6.00	3.00	3.00	4.00	4.00	5.00	7.30

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