Domain	SAMPLES	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	ELEMENT	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	LOI	TOT/C	TOT/S	SUM	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sr	Ta	Th	U	V	Zr	Y
d201	MB-02-QFG-047	74.69	13.48	1.07	0.18	1.36	3.26	5.3	0.05	< .01	0.01	0.019	0.5	0.03	< .01	100	642	1.2	1.2	21.6	2.6	3.5	157.8	185.3	< .1	26.9	4.7	20	57.8	5
d201	MB-02-QFG-115	71.92	15.69	0.45	0.04	0.68	3	7.79	0.02	0.02	< .01	0.017	0.2	0.04	< .01	99.87	394	0.8	0.8	22.1	5.5	0.8	183.2	124.1	0.2	21.3	5.4	13	81.6	14.1
d201	MB-02-QFG-116	72.97	14.59	0.84	0.21	1.34	3.14	5.4	0.05	0.05	0.01	0.024	1.2	0.04	< .01	99.91	795	1.9	1.2	20.9	2.7	2.2	131.4	171.3	0.2	29.1	3.3	18	60.7	5.8
d201	MB-02-QFG-117	74.96	14.59	0.63	0.11	3.69	4.59	0.33	0.02	0.02	0.01	0.028	1	0.03	< .01	99.99	73	1.3	0.5	19.8	1.9	0.5	8.9	280.4	0.1	44.3	10.7	24	50	21.2
d201	MB-02-QFG-118	75.78	13.56	0.41	0.12	1.57	3.95	3.32	0.02	< .01	0.01	0.021	1.2	0.02	< .01	100.01	454	1.5	0.5	17.1	1.5	1.7	78.7	210.8	< .1	20.7	2.1	15	32.2	6.3
d201	RE MB-02-QFG-118	75.59	13.47	0.43	0.13	1.58	3.9	3.4	0.02	0.02	< .01	0.022	1.4	0.02	< .01	100.01	450	1.1	0.5	17.7	1.6	1.3	83	218	< .1	19.1	1.9	15	34.4	5.9
d201	MB-02-QFG-137/115	72.13	15.05	0.44	0.05	0.67	2.86	8.39	0.02	< .01	< .01	0.019	0.2	0.04	< .01	99.87	367	< .5	0.9	19.9	6.6	0.8	174.2	120.6	< .1	17.6	5.9	14	89.6	12.8
d202	MB-02-BG-110	56.61	23.74	2.07	0.52	10.53	2.28	1.38	0.27	0.06	0.02	0.012	2.4	0.14	< .01	99.91	152	2.3	2	34.4	5.4	6.9	92.4	560.3	0.5	28.4	6.9	43	188.3	16.4
d202	MB-02-BG-111	59.95	21.69	2.21	0.8	10.42	2.27	0.66	0.27	0.1	0.03	0.014	1.5	0.04	< .01	99.94	141	2.8	1.1	34.6	5.9	9.1	33.2	545.7	0.9	24.8	8.8	34	186.8	20.6
d202	MB-02-BG-112	59.84	21.92	2.3	0.62	9.63	2.84	0.96	0.29	0.06	0.03	0.014	1.4	0.07	< .01	99.93	213	2.8	1.6	34.5	4.9	12.8	50.5	550.1	1.8	34.1	12.9	42	166.3	24.2
d202	MB-02-BG-113	60.11	22.35	2.23	0.39	11.3	2	0.49	0.27	0.04	0.02	0.014	0.7	0.07	< .01	99.92	107	2.9	1.2	45.4	5.1	8.8	26.4	590.4	1	20.6	17.4	41	167.5	21.3
d202	MB-02-BG-114	64.09	20.33	1.15	0.31	8.07	3.76	0.48	0.18	0.04	0.01	0.019	1.5	0.05	< .01	99.95	101	1.6	0.9	29.9	4.6	9.8	17.8	445.6	1.1	30.3	12.3	27	143.6	24.7
d202	MB-02-QFG-136/110	58.22	22.69	2.1	0.5	10.55	2.31	1.38	0.26	0.05	0.03	0.013	1.7	0.13	< .01	99.82	149	1.7	1.8	31.4	5.1	6.6	84.4	571.8	0.4	28.2	7.3	42	186.7	13.2
d203	MB-02-BG-042	75.67	14.03	0.41	0.16	3.22	3.27	2.74	0.02	< .01	< .01	0.013	0.5	0.02	< .01	100.1	515	1.2	0.8	20.7	1.8	1.1	59.6	169.5	< .1	20.8	2.9	13	38.7	5.1
d401	MB-02-BG-124	69.75	15.67	3.04	0.13	3.5	5.41	0.65	0.16	< .01	0.01	0.015	1.6	0.02	< .01	99.95	150	2.6	0.9	24.4	2.1	4.1	18.6	457.3	1.4	10.4	2.5	41	68.8	20.6
d401	MB-02-BG-125	64.82	19.19	1.74	0.67	4.43	5.7	1.2	0.23	0.09	0.03	0.011	1.8	0.04	< .01	99.95	321	3.5	1.2	23.7	4.2	6.5	46.5	563.9	1	12.5	6.9	16	141	9.6
d401	MB-02-BG-126	66.75	17.6	1.62	0.43	4.47	5.49	1.05	0.17	< .01	0.02	0.014	2.3	0.03	< .01	99.94	225	6.3	0.9	23.2	4.5	4.2	33.1	567	0.7	8.8	3.2	21	112.9	10.9
d401	MB-02-BG-127	72.65	14.19	1.72	0.45	1.12	3.83	4.01	0.13	0.06	0.02	0.016	1.6	0.03	< .01	99.94	1311	2.3	1.5	17.5	4.8	3.2	97.2	221.8	0.2	83.5	19.6	19	138.5	12.6
d401	MB-02-BG-128	74.16	13.7	1.15	0.21	0.87	3.25	5.2	0.09	0.04	0.02	0.014	1.1	0.04	0.01	99.95	1368	1.7	3.3	15.7	7	2.1	133.7	199.8	0.2	62.8	32.1	9	218.7	16.7
d402	MB-02-QFG-051	54.21	18.43	4.43	0.11	14.94	0.77	1.47	2.13	1.21	0.06	0.021	2.3	0.02	< .01	100.13	374	1.6	1.1	35.3	7.2	22.2	91.6	699.5	1.2	14.1	12.5	121	303.3	24.9
d403	MB-02-QFG-129	74.98	13.53	0.71	0.25	0.76	3.43	4.72	0.02	< .01	0.01	0.013	1.4	0.02	< .01	99.91	699	1.1	0.8	21.8	3.4	< .5	159.3	134.1	< .1	27.5	3	13	65.3	4.5
d403	MB-02-QFG-130	71.35	14.71	0.94	0.46	0.17	2.6	8.33	0.04	0.01	0.01	0.022	1.3	0.05	< .01	100.02	674	1.4	1.4	18.6	3.2	1.1	219.5	99.8	< .1	17.8	2.6	15	68.6	4.4
d403	MB-02-QFG-131	74.92	13.48	0.77	0.11	0.67	3.66	4.84	0.03	< .01	< .01	0.011	1.5	0.04	< .01	100.02	186	0.7	0.7	21.7	2.3	1.1	134.6	81.9	< .1	14.9	2.3	6	36.5	8.3
d403	MB-02-QFG-132	75.81	13.07	0.67	0.16	1.01	3.55	4.25	0.03	0.04	< .01	0.008	1.4	0.04	0.01	100.03	265	0.7	0.8	20.4	2.1	2	94	88.4	0.1	18.2	2.6	5	42.4	6.2
gr01	MB-02-QFG-040	59.92	21.79	3.11	0.2	8.72	5.12	0.39	0.25	0.09	0.03	0.011	0.6	0.03	< .01	100.26	192	7.2	0.3	45.4	5.1	4.2	2.7	681.7	0.1	5.1	1.1	56	182.3	6.3
gr01	MB-02-QFG-105	61.99	21.48	2	0.14	4.55	7.72	0.69	0.13	0.03	0.02	0.001	1.2	0.03	< .01	99.97	117	1.5	0.2	44.8	11.1	12.7	5.7	430	1.8	6.5	5	34	188.8	9
gr01	MB-02-QFG-106	64.15	20.58	1.22	0.06	4.08	7.8	0.71	0.04	0.02	0.01	0.006	1.3	0.03	< .01	100	124	1.2	0.1	32.4	1.8	1.8	5.1	441	0.3	2.3	1.1	18	45	7.1
gr01	MB-02-QFG-107	63.93	20.97	0.71	0.07	3.77	8.15	0.69	0.03	0.04	0.01	0.002	1.6	0.03	< .01	99.99	127	1.4	< .1	31	0.7	1.6	6.3	425.2	0.3	1.6	1.1	12	23.5	6.1
gr01	MB-02-QFG-108	66.14	19.16	0.47	0.02	3.37	7.42	0.98	0.01	0.01	< .01	0.005	2.4	0.01	< .01	100.01	157	0.7	0.3	28.6	< .5	< .5	11.5	398.9	< .1	0.7	0.2	8	< .5	1.4
gr01	MB-02-QFG-109	66.32	19.56	1.04	0.11	3.65	7.74	0.71	0.04	< .01	0.01	0.005	0.8	0.02	< .01	100.01	100	1.2	0.1	28.2	1.7	2.4	4.1	398.8	0.4	1.5	1.7	17	32.4	8.2
gr02	MB-02-QFG-101	74.41	14.17	1.21	0.33	2.32	4.84	0.8	0.16	0.02	0.01	0.015	1.8	0.03	< .01	100.11	209	3.4	1.3	19.6	4.7	2.3	32.4	237.6	0.1	6.8	0.6	21	143.6	18.5
gr02	MB-02-QFG-102	73.59	14.16	1.45	0.33	1.64	4.71	2.13	0.18	0.02	0.01	0.01	1.8	0.02	< .01	100.07	304	3.5	1	23.7	3.1	4	53.3	190.9	0.4	6.7	1.1	20	106.1	9.8
gr02	MB-02-QFG-103	70.8	14.94	2.2	0.64	2.75	4.79	1.1	0.36	0.02	0.02	0.011	2.3	0.07	< .01	99.97	380	2.9	2.1	24	4.4	3.6	52.7	316.7	0.3	4.6	0.8	36	197.8	10.5
gr02	MB-02-QFG-104	71.37	15.14	1.65	0.47	2.84	5.3	0.95	0.25	0.06	0.01	0.01	1.9	0.04	< .01	99.97	171	3.2	1.4	22	3.5	2.4	42.1	342.2	0.2	3.2	0.7	28	138.5	7.3
gr03	MB-02-QFG-119	75.3	13.49	0.62	0.1	1.09	3.41	4.77	0.03	0.01	0.01	0.031	1.1	0.02	< .01	100.03	616	1	0.7	17.5	1.8	0.6	90.2	129.6	< .1	18.1	6	16	27	10.1
gr03	MB-02-QFG-120	74.45	14	0.35	0.07	0.51	3.14	6.09	0.01	0.02	0.01	0.018	1.2	0.02	< .01	99.92	477	0.7	2.4	22.7	1.8	1.3	154.7	121.5	0.2	3.9	4	7	31.1	23.9
gr03	MB-02-QFG-121	75.02	13.86	0.41	0.05	0.67	3.73	5.09	0.02	< .01	0.01	0.008	1	0.02	< .01	99.89	167	0.8	1.1	21.3	1.4	4.2	138.5	94	0.2	9.6	3	< 5	22.8	10.8
gr03	MB-02-QFG-122	75.33	14.4	0.43	0.09	3.03	4.58	1.32	0.02	< .01	< .01	0.012	0.8	0.05	< .01	100.02	69	1	0.4	21.2	3.4	1.6	27.6	109.8	0.1	23.6	6.6	8	63	10.1
gr03	MB-02-QFG-123	74.9	13.96	0.33	0.1	1.43	3.58	4.61	0.02	0.04	0.01	0.008	1	0.05	< .01	100.03	423	1.7	1.1	20.9	1.8	1.4	105.1	133.6	< .1	19.9	3.9	5	36.3	10.8
ms01a	MB-02-QFG-069	76.94	11.37	2.24	0.08	0.54	3.14	4.32	0.14	< .01	0.02	0.032	1	0.05	< .01	99.94	1044	1.6	0.6	25.9	13.1	53.1	120.7	55.6	2.9	38.6	10.1	19	278.6	173.6
ms01a	MB-02-QFG-070	76.5	11.67	2.33	0.11	0.51	2.91	4.85	0.12	< .01	0.03	0.031	0.8	0.03	< .01	99.96	922	1.3	0.4	26.3	10.1	50.1	124.7	49	3.2	31.4	9.8	17	204.3	147.8
ms01a	MB-02-QFG-071	76.53	11.26	2.87	0.06	0.42	2.77	4.75	0.13	< .01	0.02	0.029	1	0.04	< .01	99.96	994	1.2	0.5	26.8	11.7	50.9	120.7	28.8	2.6	35.9	9.8	16	269	112.4
ms01a	MB-02-QFG-072	77.14	10.97	2.84	0.08	0.46	2.78	4.67	0.14	< .01	0.02	0.03	0.7	0.06	0.01	99.94	914	0.9	0.3	26.2	13.7	47.2	115.5	33.2	2.5	36.7	7.7	15	307.6	182.3
ms01a	MB-02-QFG-073	76.36	11.4	2.83	0.08	0.5	2.86	4.8	0.13	< .01	0.02	0.038	0.8	0.06	< .01	99.93	989	1.1	0.4	26.1	11.1	50.1	119.7	32.9	2.5	38.9	9	18	254.5	191.2
ms01a	MB-02-QFG-074	76.32	11.49	2.65	0.07	0.57	3.03	4.56	0.12	< .01	0.02	0.03	1	0.05	0.01	99.98	992	1.2	0.5	27.4	11.6	47.5	111.3	35.2	2.4	33.9	7.9	15	228.3	170.4
ms01a	MB-02-QFG-075	77.1	11.41	2.35	0.1	0.4	2.79	4.8	0.14	< .01	0.02	0.028	0.7	0.03	< .01	99.97	1137	1.3	0.5	26	10.5	47	125	51.1	2.8	34.8	9.7	14	256.2	162.1
ms01a	RE MB-02-QFG-075	77.19	11.42	2.29	0.09	0.4	2.81	4.86	0.15	< .01	0.02	0.023	0.6	0.03	< .01	99.98	1135	1.5	0.5	25.8	11.3	47.1	121.9	52.9	2.6	30.7	9.9	13	252.3	157.4
ms01a	MB-02-QFG-134/073	76.14	11.47	2.92	0.09	0.5	2.93	4.54	0.13	< .01	0.02	0.036	1	0.05	< .01	99.92	1192	0.7	0.4	26.5	11.6	46.6	110.4	33.2	2.7	33.7	9.5	19	247	206.1
ms01b	MB-02-QFG-076	75.1	14.27	0.31	0.04	1.12	4.25	4.36	0.01	0.02	0.01	0.011	0.6	0.02	< .01	100.15	366	1.4	0.6	20	2.1	1.2	91.8	118.8	< .1	3.4	1.1	6	30.3	19.2
ms01c	MB-02-QFG-077	75.53	13.68	0.86	0.09	0.2	3.31	5.89	< .01	0.07	0.08	0.019	0.3	0.03	< .01	100.12	720	1.9	2.4	16.3	2.3	< .5	187.2	125.9	0.1	16.3	4	13	41	18.3
ms01c	MB-02-QFG-078	75.68	13.59	0.79	0.1	0.21	3.42	5.52	< .01	0.06	0.08	0.017	0.6	0.03	< .01	100.15	686	2.2	2.4	15.9	2	< .5	179.8	152.2	0.2	10.3	2.8	8	29.8	13
ms01c	MB-02-QFG-079	75.8	13.46	0.74	0.08	0.22	3.78	5.07	< .01	0.08	0.07	0.027	0.7	0.05	< .01	100.12	807	1.3	2.4	15.7	0.8	< .5	172.6	157.6	0.1	2	1.2	14	13.6	6.7
ms02	MB-02-QFGw-080	73.67	14.12	1.54	0.55	1.67	4.72	2.52	0.1	0.04	0.03	0.019	1.1	0.11	< .01	100.11	230	4.2	0.7	22.7	2.1	6.8	94.5	97.9	0.9	14.5	4.3	21	42.3	23
ms02	MB-02-QFGw-081	74.3	14.93	1.55	0.34	1.98	5.3	1.1	0.12	0.05	0.02	0.022	0.4	0.31	< .01	100.12	133	1.9	0.9	25.7	4.5	14.8	58.8	190.5	0.7	24.6	2.6	14	102.2	17.5
ms02	MB-02-QFGw-087	73.42	14.07	2.13	0.49	1.48	4.37	3.05	0.19	0.05	0.04	0.011	0.8	0.06	< .01	100.13	290	2.8	1.1	24.4	4.3	13.3	133.9	115.5	0.6	21.5	3.3	14	118.5	20.8
ms02	MB-02-QFG-135/081	73.86	14.62	1.51	0.33	1.92	6.03	1.15	0.12	0.04	0.02	0.018	0.2	0.04	< .01	99.83	127	1.8	1.2	26.2	3.8	14.9	57.9	203.6	0.8	23.7	2.4	14	92.8	16.8
ms03	MB-02-QFGu-082	76.6	13.32	0.59	0.15	0.73	4.64	3.1	0.01	< .01	< .01	0.034	0.9	0.03	< .01	100.09	114	1	0.8	20.4	1.9	4.8	96.4	50.7	0.3	17.3	0.9	18	33.2	7.3
ms03	MB-02-QFGu-083	76.92	12.34	0.71	0.23	0.09	2.49	6.42	0.03	< .01	0.01	0.019	0.7	0.03	< .01	100.08	1087	1.8	0.9	12.7	2.2	4.1	264	77.1	0.3	8.8	1.6	16	33.4	8.9
ms03	MB-02-QFGu-084	75.2	13.58	1.25	0.11	0.77	4.26	3.89	0.04	0.03	0.03	0.028	0.9	0.02	< .01	100.11	219	0.8	1.2	22.7	2.6	11.4	185.5	30	1	11	1.5	16	50.5	15.5
ms03	MB-02-QFGu-085	75.47	13.97	0.83	0.05	0.7	3.99	4.7	< .01	< .01	0.03	0.03	0.3	0.02	< .01	100.1	73	0.5	1	24.7	2.2	5.3	222.1	30.1	0.1	11.8	1.8	15	33	21.5
ms03	MB-02-QFGu-086	76.03	13.95	0.97	0.1	1.1	5.03	2.42	0.02	< .01	0.06	0.042	0.4	0.03	< .01	100.16	246	1.1	1	20.1	2.3	3.7	89.3	60.7	0.2	1.7	0.6	20	29.8	17.9
ms04	MB-02-QFGb-088	74.21	14.31	0.85	0.12	0.45	3.59	5.83	0.01	0.02	0.06	0.024	0.6	0.05	< .01	100.14	549	0.7	0.7	26.3	2.3	8.4	205.7	73.9	0.3	7.6	1.1	14	24	23.3
ms04	MB-02-QFGb-089	74.65	14.3	1.52	0.38	1.21	5.21	2.04	0.09	0.03	0.04	0.038	0.5	0.04	< .01	100.03	211	2.4	0.7	23	3.3	8.2	93.3	71.4	0.5	16	1.7	25	71.6	30.3
ms04	MB-02-QFGb-090	76.46	13.39	0.64	0.07	0.41	3.84	4.93	< .01	< .01	0.03	0.018	0.3	0.03	< .01	100.12	210	0.8	1.1	19.6	2.3	3.5	235.7	52.7	0.1	11.2	1.6	6	33.5	23.6
ms04	MB-02-QFGb-091	74.88	14.15	1.28	0.24	1.2	4.92	2.56	0.1	0.03	0.01	0.023	0.7	0.02	< .01	100.11	198	1.9	0.8	22.2	2.8	7	129.	88.3	0.4	14.3	2.3	13	70.9	18.5
ms04	MB-02-QFGb-092	74.37	14	1.66	0.35	1.3	4.59	2.74	0.12	0.03	0.06	0.034	0.8	0.03	< .01	100.11	528	2.3	0.7	19.5	4.2	5.3	120.6	119.8	0.3	11	1.3	25	94.8	19.2