

Data Table Summarizing Major Element Analyzes of 30 Individually Prepared USGS Standard BHVO-2 Glass Disks. These Data Reflect All the Errors in Sample Preparation, Bead Making, and Sample Analysis on a Zetium Panalytical Inc. XRF Vacuum Spectrometer.

Specimen	SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃ T	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	Total
BHVO-2 A	49.693	2.716	13.33	12.64	0.169	7.104	11.436	2.149	0.506	0.274	100.018
BHVO-2 B	50.09	2.724	13.464	12.427	0.168	7.173	11.469	2.165	0.508	0.274	100.461
BHVO-2 B1	50.223	2.718	13.539	12.412	0.167	7.182	11.45	2.185	0.509	0.275	100.66
BHVO-2 C	49.844	2.715	13.372	12.576	0.168	7.101	11.445	2.153	0.505	0.275	100.153
BHVO-2 D	50.118	2.692	13.583	12.435	0.168	7.144	11.344	2.226	0.514	0.282	100.506
BHVO-2 D1	50.111	2.689	13.597	12.442	0.168	7.145	11.338	2.224	0.513	0.281	100.509
BHVO-2 E	49.972	2.719	13.414	12.392	0.168	7.136	11.466	2.154	0.506	0.275	100.202
BHVO-2 F	49.873	2.706	13.414	12.55	0.166	7.136	11.405	2.157	0.505	0.275	100.187
BHVO-2 F1	49.806	2.704	13.388	12.546	0.167	7.125	11.395	2.162	0.507	0.273	100.073
BHVO-2 G	49.781	2.707	13.394	12.413	0.167	7.147	11.394	2.158	0.504	0.274	99.937
BHVO-2 H	49.729	2.716	13.317	12.452	0.167	7.105	11.429	2.148	0.509	0.276	99.848
BHVO-2 H1	49.742	2.715	13.329	12.457	0.167	7.094	11.432	2.142	0.508	0.277	99.863
BHVO-2 I	49.863	2.71	13.39	12.406	0.167	7.147	11.439	2.163	0.505	0.275	100.064
BHVO-2 J	49.388	2.703	13.267	12.208	0.166	7.044	11.38	2.122	0.502	0.271	99.051
BHVO-2 J1	49.385	2.706	13.248	12.211	0.167	7.04	11.377	2.122	0.503	0.271	99.031
BHVO-2 K	49.759	2.704	13.358	12.525	0.167	7.114	11.402	2.149	0.506	0.274	99.958
BHVO-2 L	49.741	2.717	13.31	12.236	0.167	7.096	11.441	2.127	0.502	0.275	99.613
BHVO-2 L1	49.73	2.718	13.336	12.236	0.167	7.104	11.442	2.134	0.502	0.274	99.642
BHVO-2 L2	49.927	2.718	13.434	12.234	0.168	7.114	11.442	2.155	0.504	0.274	99.97
BHVO-2 M	50.011	2.72	13.439	12.458	0.167	7.161	11.446	2.142	0.505	0.276	100.324
BHVO-2 N	49.823	2.72	13.327	12.448	0.168	7.113	11.452	2.139	0.507	0.276	99.972
BHVO-2 N1	49.746	2.723	13.356	12.44	0.168	7.103	11.439	2.14	0.504	0.273	99.893
BHVO-2 O	49.596	2.699	13.294	12.35	0.166	7.086	11.359	2.143	0.504	0.273	99.469
BHVO-2 P	50.036	2.72	13.464	12.174	0.168	7.166	11.459	2.158	0.505	0.274	100.124
BHVO-2 P1	50.067	2.717	13.464	12.169	0.168	7.159	11.444	2.157	0.504	0.275	100.124
BHVO-2 Q	49.58	2.712	13.31	12.534	0.167	7.082	11.426	2.123	0.504	0.272	99.71
BHVO-2 R	49.832	2.705	13.393	12.627	0.167	7.124	11.412	2.149	0.508	0.273	100.191
BHVO-2 R1	49.782	2.706	13.386	12.623	0.167	7.113	11.401	2.153	0.505	0.274	100.11
BHVO-2 S	49.511	2.709	13.294	12.619	0.167	7.062	11.397	2.123	0.504	0.273	99.659
BHVO-2 T	49.967	2.714	13.449	12.553	0.167	7.161	11.433	2.184	0.51	0.276	100.415
Mean	49.8242	2.7114	13.38867	12.42643	0.1673	7.119367	11.4198	2.153533	0.505933	0.274667	99.99123
Standard Dev.	0.207635	0.008728	0.086354	0.143342	0.000702	0.036104	0.034804	0.025119	0.002947	0.002339	0.384482
LOD - t value 2.46238% Conf. Level (+/-)	0.511198	0.021489	0.212603	0.352908	0.001729	0.088887	0.085688	0.061842	0.007256	0.005759	0.946596
	0.208	0.009	0.086	0.143	0.001	0.036	0.035	0.025	0.003	0.002	0.384
USGS Rec. Values	49.9	2.73	13.5	12.3	0.17	7.23	11.4	2.22	0.52	0.27	
Mean % Recovery	99.85%	99.32%	99.18%	101.03%	98.41%	98.47%	100.17%	97.01%	97.29%	101.73%	

Speciman	Nitrogen %	Carbon %	Sulfur %	SO ₃ %

See XRD Report #21 dated December 23, 2014.