**Table S2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oxide wt% (Corrected) |  |  |  |  |  |  |  |  |  |  |  |  |   |
|   | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** | **Ti-Mt** |
| TiO2 | 21.67 | 24.03 | 22.87 | 22.13 | 18.20 | 22.61 | 21.51 | 22.06 | 18.32 | 19.07 | 27.78 | 15.04 | 21.06 | 28.03 | 14.83 |
| Al2O3 | 8.02 | 1.18 | 2.34 | 0.71 | 0.31 | 1.19 | 4.38 | 6.00 | 2.53 | 1.17 | 2.06 | 1.15 | 1.01 | 2.26 | 0.07 |
| Cr2O3 | 0.00 | 0.05 | 0.05 | 0.15 | 0.13 | 0.00 | 0.15 | 0.00 | 0.00 | 0.02 | 0.10 | 0.02 | 0.06 | 0.05 | 0.10 |
| Fe2O3 | 18.79 | 21.17 | 22.36 | 25.38 | 33.42 | 23.92 | 22.77 | 19.64 | 30.75 | 30.74 | 13.22 | 38.54 | 27.08 | 12.18 | 40.17 |
| FeO | 48.15 | 52.52 | 50.12 | 50.06 | 46.67 | 51.79 | 49.68 | 51.44 | 47.78 | 48.53 | 55.35 | 44.98 | 50.24 | 56.76 | 44.01 |
| MnO | 1.56 | 0.98 | 1.66 | 1.37 | 1.14 | 0.47 | 0.40 | 0.47 | 0.63 | 0.50 | 0.76 | 0.32 | 0.55 | 0.71 | 0.79 |
| NiO | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MgO | 1.86 | 0.05 | 0.60 | 0.20 | 0.12 | 0.01 | 1.12 | 0.45 | 0.06 | 0.00 | 0.73 | 0.00 | 0.01 | 0.02 | 0.02 |
| ZnO | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 100.06 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.06 | 100.07 | 100.04 | 100.00 | 100.05 | 100.00 | 100.00 | 100.00 |
|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Oxide wt% (Corrected) |  |  |  |  |  |  |  |  |  |  |  |  |   |
|   | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** | **Ilm** |
| SiO2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 |
| TiO2 | 49.19 | 48.98 | 49.82 | 48.71 | 49.47 | 49.12 | 49.60 | 49.68 | 49.77 | 49.66 | 49.73 | 49.74 | 49.84 | 50.14 | 50.09 |
| Al2O3 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.06 | 0.05 | 0.07 |
| Fe2O3 | 5.06 | 5.41 | 4.51 | 5.72 | 4.70 | 5.03 | 5.32 | 4.05 | 3.60 | 4.12 | 4.28 | 4.49 | 4.19 | 3.47 | 3.04 |
| FeO | 41.12 | 40.86 | 41.85 | 40.50 | 41.57 | 41.16 | 43.80 | 43.50 | 43.69 | 43.66 | 43.67 | 43.60 | 44.00 | 43.83 | 43.87 |
| MnO | 2.80 | 2.71 | 2.70 | 2.51 | 2.72 | 2.63 | 0.83 | 1.23 | 1.04 | 0.96 | 1.02 | 1.09 | 0.79 | 1.16 | 1.09 |
| MgO | 0.08 | 0.04 | 0.02 | 0.08 | 0.04 | 0.04 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CaO | 0.12 | 0.28 | 0.15 | 0.49 | 0.09 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.03 | 0.07 | 0.06 |
| Total | 98.36 | 98.30 | 99.05 | 98.03 | 98.58 | 98.20 | 99.61 | 98.51 | 98.12 | 98.42 | 98.77 | 98.98 | 98.91 | 98.72 | 98.22 |

Representative major element contents of Oxide (Opaque) phases in studied mafic dyke samples.