

|       | SiO <sub>2</sub> | TiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | Fe <sub>2</sub> O <sub>3</sub> | FeO  | MnO  | MgO  | CaO  | Na <sub>2</sub> O | K <sub>2</sub> O | P <sub>2</sub> O <sub>5</sub> | l.i  | oth  | sum    | hs   |
|-------|------------------|------------------|--------------------------------|--------------------------------|------|------|------|------|-------------------|------------------|-------------------------------|------|------|--------|------|
| 4581- | 56.25            | 1.22             | 16.96                          | 3.20                           | 4.69 | 0.14 | 3.21 | 5.59 | 3.44              | 3.24             | -                             | 1.13 | -    | 99.07  | -    |
| 4582- | 56.16            | 0.82             | 17.31                          | 0.68                           | 6.93 | 0.15 | 5.36 | 6.67 | 2.47              | 1.82             | 0.21                          | 0.87 | 0.26 | 99.71  | -    |
| 4583- | 56.12            | 0.68             | 13.99                          | 2.71                           | 6.74 | 0.20 | 6.30 | 7.92 | 2.64              | 1.56             | 0.13                          | 1.56 | -    | 100.55 | -    |
| 4584- | 56.07            | 0.99             | 16.84                          | 4.23                           | 5.34 | 0.17 | 3.29 | 6.87 | 3.27              | 1.73             | 0.21                          | 0.98 | -    | 99.99  | 0.35 |
| 4585- | 56.06            | 1.30             | 18.48                          | 2.34                           | 4.61 | 0.11 | 2.95 | 5.30 | 4.97              | 2.55             | 0.54                          | 0.56 | -    | 99.77  | -    |
| 4586- | 56.02            | 0.81             | 16.74                          | 0.55                           | 7.10 | 0.07 | 3.95 | 7.10 | 3.22              | 2.40             | 0.23                          | 1.15 | 0.01 | 99.35  | 0.20 |
| 4587- | 56.00            | 0.85             | 17.09                          | 1.05                           | 7.15 | 0.12 | 3.65 | 6.45 | 3.00              | 4.50             | 0.12                          | 0.72 | -    | 100.70 | -    |
| 4588- | 55.98            | 1.05             | 17.70                          | 3.75                           | 4.07 | 0.17 | 3.63 | 6.90 | 3.48              | 2.03             | 0.18                          | 1.40 | -    | 100.34 | -    |
| 4589- | 55.98            | 0.77             | 16.27                          | 0.50                           | 8.46 | 0.15 | 4.73 | 7.28 | 2.18              | 2.07             | 0.15                          | 1.34 | -    | 99.88  | 0.12 |
| 4590- | 55.90            | 0.87             | 16.27                          | 1.44                           | 6.21 | 0.19 | 4.84 | 8.56 | 1.73              | 2.24             | 0.19                          | 1.35 | -    | 99.79  | 0.21 |
| 4591- | 55.88            | 0.99             | 17.49                          | 1.83                           | 5.91 | 0.12 | 3.93 | 7.62 | 3.24              | 1.49             | 0.14                          | 1.24 | -    | 99.88  | -    |
| 4592- | 55.87            | 0.75             | 17.85                          | 1.62                           | 6.32 | 0.16 | 4.17 | 7.06 | 2.56              | 1.85             | 0.12                          | 1.26 | 0.26 | 99.85  | 0.16 |
| 4593- | 55.87            | 0.68             | 15.84                          | 4.00                           | 3.88 | 0.13 | 6.10 | 7.97 | 2.83              | 1.54             | 0.13                          | 0.72 | -    | 99.69  | 0.12 |
| 4594- | 55.85            | 1.09             | 17.05                          | 2.61                           | 6.42 | 0.10 | 2.85 | 7.16 | 2.71              | 2.55             | 0.34                          | 1.00 | -    | 99.73  | 0.30 |
| 4595- | 55.84            | 1.22             | 18.22                          | 2.85                           | 4.83 | 0.14 | 2.90 | 7.30 | 3.30              | 2.42             | 0.43                          | 1.00 | -    | 100.45 | 0.04 |
| 4596- | 55.83            | 0.75             | 18.70                          | 3.72                           | 4.49 | 0.18 | 2.46 | 7.04 | 3.12              | 2.64             | 0.40                          | 1.17 | -    | 100.50 | 0.61 |
| 4597- | 55.82            | 0.82             | 17.16                          | 1.03                           | 7.00 | 0.06 | 3.56 | 7.37 | 3.07              | 1.83             | 0.23                          | 1.84 | -    | 99.79  | 0.12 |
| 4598- | 55.81            | 0.81             | 17.70                          | 0.56                           | 8.32 | 0.07 | 4.07 | 7.35 | 2.92              | 1.26             | 0.30                          | 0.53 | -    | 99.70  | 0.12 |
| 4599- | 55.81            | 0.76             | 17.76                          | 0.35                           | 7.65 | 0.14 | 4.50 | 6.48 | 2.92              | 1.98             | 0.15                          | 1.31 | 0.05 | 99.86  | 0.37 |
| 4600- | 55.78            | 0.77             | 19.86                          | 4.38                           | 2.11 | 0.09 | 2.53 | 7.95 | 2.97              | 2.90             | -                             | 0.11 | -    | 99.45  | 0.34 |