

Spectrum Label: Spectrum 1

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68138

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.53 | 919956 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

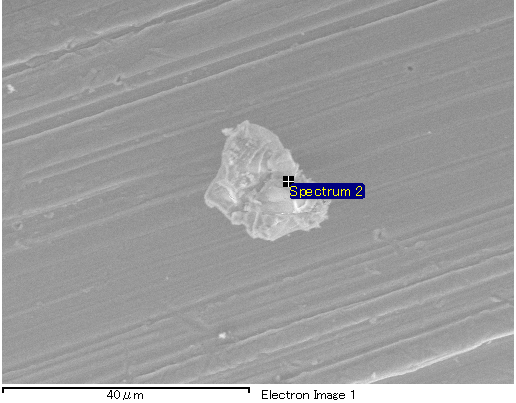
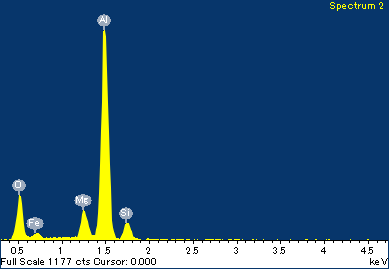
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.16 | -0.15 | -0.21 | Na2O |  |
| Mg K | 4.14 | 3.63 | 6.86 | MgO |  |
| Al K | 39.68 | 31.33 | 74.97 | Al2O3 |  |
| Si K | 4.12 | 3.13 | 8.82 | SiO2 |  |
| P K | -0.18 | -0.13 | -0.42 | P2O5 |  |
| S K | -0.16 | -0.11 | -0.40 | SO3 |  |
| Cl K | -0.07 | -0.04 | 0.00 |  |  |
| K K | 0.06 | 0.03 | 0.07 | K2O |  |
| Ca K | -0.11 | -0.06 | -0.16 | CaO |  |
| Fe L | 7.65 | 2.92 | 9.84 | FeO |  |
| Ni L | 0.55 | 0.20 | 0.71 | NiO |  |
| O | 44.49 | 59.25 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



Spectrum Label: Spectrum 2

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68465

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 919218 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

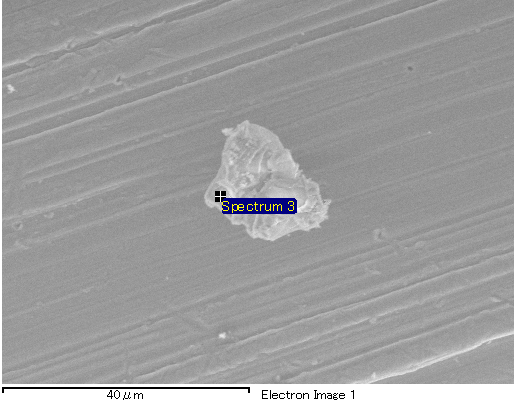
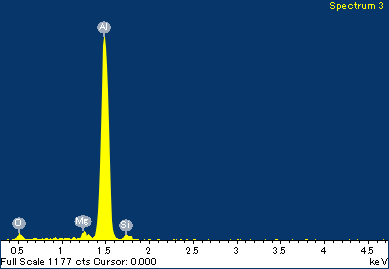
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.04 | 0.05 | Na2O |  |
| Mg K | 4.33 | 3.78 | 7.18 | MgO |  |
| Al K | 38.57 | 30.31 | 72.87 | Al2O3 |  |
| Si K | 4.37 | 3.30 | 9.36 | SiO2 |  |
| P K | 0.33 | 0.22 | 0.75 | P2O5 |  |
| S K | 0.13 | 0.09 | 0.34 | SO3 |  |
| Cl K | -0.06 | -0.03 | 0.00 |  |  |
| K K | -0.10 | -0.05 | -0.12 | K2O |  |
| Ca K | -0.12 | -0.06 | -0.16 | CaO |  |
| Fe L | 7.94 | 3.02 | 10.22 | FeO |  |
| Ni L | -0.34 | -0.12 | -0.43 | NiO |  |
| O | 44.89 | 59.51 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



Spectrum Label: Spectrum 3

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 64571

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 920194 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

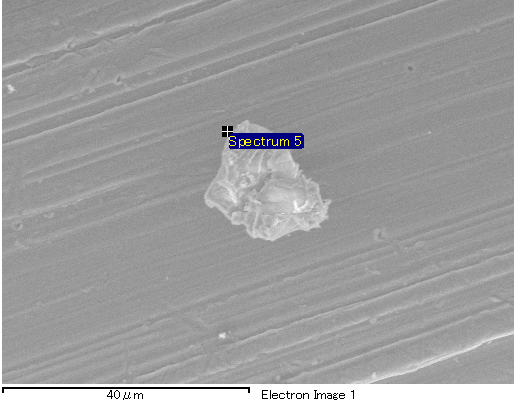
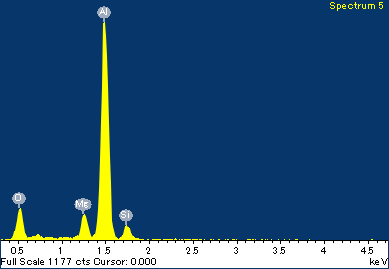
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.11 | -0.10 | -0.15 | Na2O |  |
| Mg K | 1.29 | 1.08 | 2.13 | MgO |  |
| Al K | 49.45 | 37.50 | 93.43 | Al2O3 |  |
| Si K | 1.56 | 1.13 | 3.33 | SiO2 |  |
| P K | 0.03 | 0.02 | 0.07 | P2O5 |  |
| S K | 0.06 | 0.04 | 0.15 | SO3 |  |
| Cl K | -0.17 | -0.10 | 0.00 |  |  |
| K K | -0.08 | -0.04 | -0.10 | K2O |  |
| Ca K | 0.07 | 0.04 | 0.10 | CaO |  |
| Fe L | 1.52 | 0.56 | 1.95 | FeO |  |
| Ni L | -0.60 | -0.21 | -0.76 | NiO |  |
| O | 46.98 | 60.08 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



Spectrum Label: Spectrum 5

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68294

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.57 | 917984 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

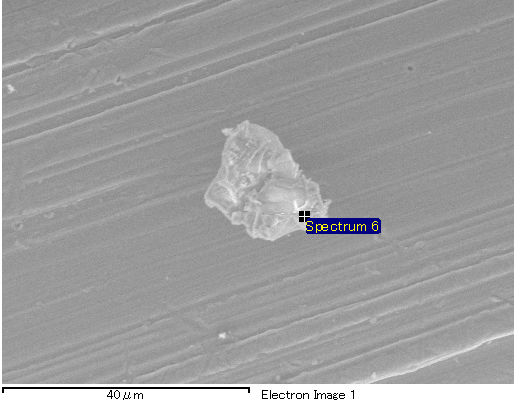
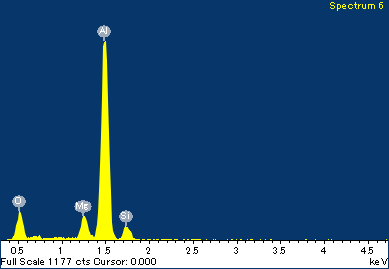
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.11 | 0.10 | 0.15 | Na2O |  |
| Mg K | 4.09 | 3.52 | 6.79 | MgO |  |
| Al K | 42.07 | 32.56 | 79.48 | Al2O3 |  |
| Si K | 3.65 | 2.71 | 7.80 | SiO2 |  |
| P K | -0.08 | -0.05 | -0.18 | P2O5 |  |
| S K | -0.03 | -0.02 | -0.07 | SO3 |  |
| Cl K | -0.16 | -0.09 | 0.00 |  |  |
| K K | 0.04 | 0.02 | 0.05 | K2O |  |
| Ca K | 0.12 | 0.06 | 0.17 | CaO |  |
| Fe L | 4.24 | 1.58 | 5.45 | FeO |  |
| Ni L | 0.41 | 0.15 | 0.52 | NiO |  |
| O | 45.54 | 59.46 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



Spectrum Label: Spectrum 6

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 66826

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.60 | 919786 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.12 | -0.11 | -0.16 | Na2O |  |
| Mg K | 4.10 | 3.53 | 6.81 | MgO |  |
| Al K | 41.95 | 32.47 | 79.25 | Al2O3 |  |
| Si K | 3.87 | 2.88 | 8.29 | SiO2 |  |
| P K | -0.01 | 0.00 | -0.02 | P2O5 |  |
| S K | -0.06 | -0.04 | -0.14 | SO3 |  |
| Cl K | -0.24 | -0.14 | 0.00 |  |  |
| K K | 0.15 | 0.08 | 0.18 | K2O |  |
| Ca K | -0.15 | -0.08 | -0.21 | CaO |  |
| Fe L | 5.25 | 1.96 | 6.75 | FeO |  |
| Ni L | -0.40 | -0.14 | -0.50 | NiO |  |
| O | 45.65 | 59.59 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8