

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 = 67768

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.57 | 918680 |
|  |  |  |  |
| 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

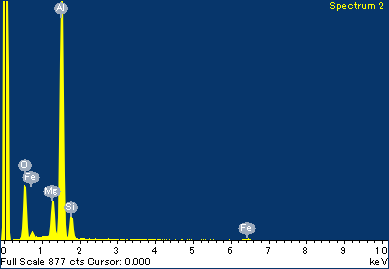
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.03 | 0.05 | Na2O |  |
| Mg K | 4.64 | 4.09 | 7.69 | MgO |  |
| Al K | 37.45 | 29.78 | 70.76 | Al2O3 |  |
| Si K | 4.53 | 3.46 | 9.68 | SiO2 |  |
| P K | 0.01 | 0.01 | 0.02 | P2O5 |  |
| S K | -0.13 | -0.09 | -0.33 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | 0.07 | 0.04 | 0.09 | K2O |  |
| Ca K | 0.08 | 0.04 | 0.11 | CaO |  |
| Fe L | 9.79 | 3.76 | 12.59 | FeO |  |
| Ni L | -0.47 | -0.17 | -0.60 | NiO |  |
| O | 44.06 | 59.09 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24



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 = 67250

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.65 | 918451 |
|  |  |  |  |
| 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

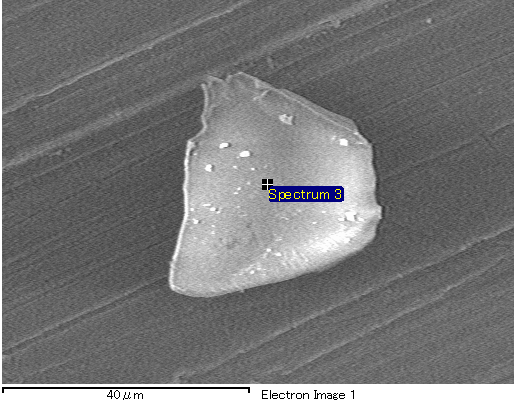
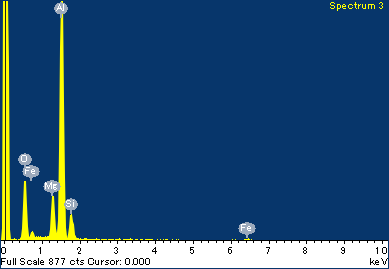
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.04 | 0.05 | Na2O |  |
| Mg K | 4.82 | 4.21 | 8.00 | MgO |  |
| Al K | 38.08 | 29.95 | 71.95 | Al2O3 |  |
| Si K | 4.70 | 3.55 | 10.05 | SiO2 |  |
| P K | 0.24 | 0.17 | 0.55 | P2O5 |  |
| S K | -0.11 | -0.07 | -0.28 | SO3 |  |
| Cl K | -0.09 | -0.05 | 0.00 |  |  |
| K K | -0.08 | -0.04 | -0.09 | K2O |  |
| Ca K | 0.13 | 0.07 | 0.18 | CaO |  |
| Fe L | 7.50 | 2.85 | 9.65 | FeO |  |
| Ni L | 0.02 | 0.01 | 0.02 | NiO |  |
| O | 44.75 | 59.34 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24



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 = 67318

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.70 | 917197 |
|  |  |  |  |
| 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

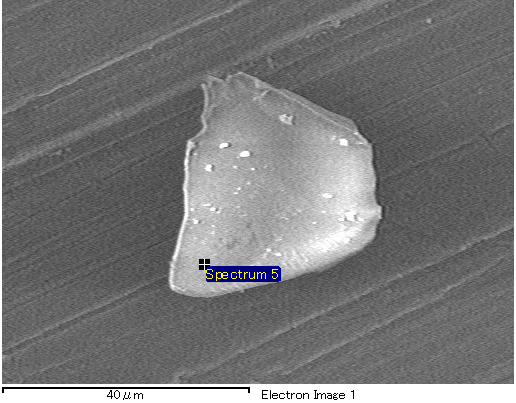
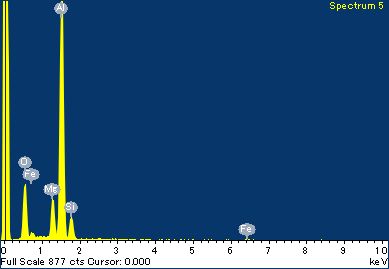
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.15 | -0.14 | -0.21 | Na2O |  |
| Mg K | 5.26 | 4.62 | 8.72 | MgO |  |
| Al K | 37.52 | 29.66 | 70.88 | Al2O3 |  |
| Si K | 4.83 | 3.67 | 10.33 | SiO2 |  |
| P K | -0.10 | -0.07 | -0.23 | P2O5 |  |
| S K | -0.14 | -0.09 | -0.34 | SO3 |  |
| Cl K | 0.07 | 0.04 | 0.00 |  |  |
| K K | 0.19 | 0.10 | 0.23 | K2O |  |
| Ca K | -0.11 | -0.06 | -0.16 | CaO |  |
| Fe L | 8.59 | 3.28 | 11.05 | FeO |  |
| Ni L | -0.26 | -0.09 | -0.33 | NiO |  |
| O | 44.32 | 59.10 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24



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 = 67775

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 917365 |
|  |  |  |  |
| 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

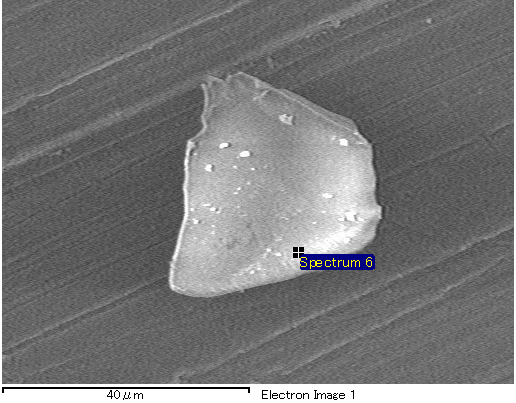
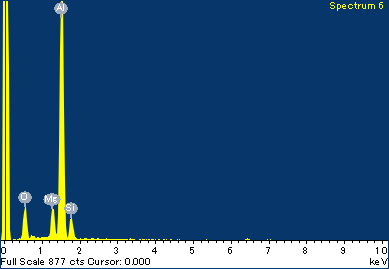
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.04 | -0.04 | -0.06 | Na2O |  |
| Mg K | 5.00 | 4.35 | 8.29 | MgO |  |
| Al K | 37.92 | 29.77 | 71.65 | Al2O3 |  |
| Si K | 4.80 | 3.62 | 10.27 | SiO2 |  |
| P K | 0.04 | 0.03 | 0.10 | P2O5 |  |
| S K | 0.20 | 0.13 | 0.50 | SO3 |  |
| Cl K | -0.23 | -0.14 | 0.00 |  |  |
| K K | 0.06 | 0.03 | 0.07 | K2O |  |
| Ca K | -0.13 | -0.07 | -0.19 | CaO |  |
| Fe L | 7.99 | 3.03 | 10.27 | FeO |  |
| Ni L | -0.52 | -0.19 | -0.66 | NiO |  |
| O | 44.93 | 59.48 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24



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 = 65742

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.67 | 918668 |
|  |  |  |  |
| 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

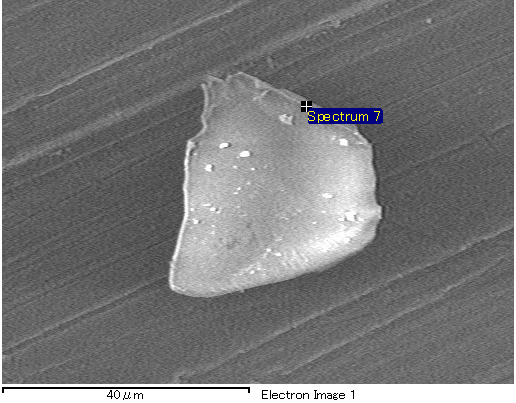
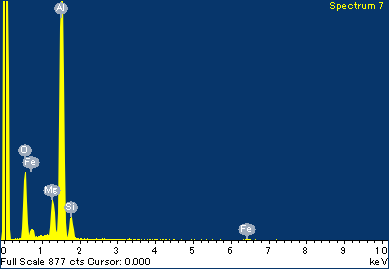
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.09 | -0.08 | -0.12 | Na2O |  |
| Mg K | 3.91 | 3.34 | 6.48 | MgO |  |
| Al K | 41.79 | 32.16 | 78.95 | Al2O3 |  |
| Si K | 4.22 | 3.12 | 9.04 | SiO2 |  |
| P K | -0.02 | -0.01 | -0.04 | P2O5 |  |
| S K | 0.32 | 0.21 | 0.81 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | 0.47 | 0.25 | 0.56 | K2O |  |
| Ca K | 0.11 | 0.06 | 0.15 | CaO |  |
| Fe L | 3.03 | 1.12 | 3.89 | FeO |  |
| Ni L | 0.26 | 0.09 | 0.33 | NiO |  |
| O | 46.05 | 59.77 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24



Spectrum Label: Spectrum 7

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 69166

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.69 | 916673 |
|  |  |  |  |
| 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 | 0.07 | 0.06 | 0.09 | Na2O |  |
| Mg K | 4.06 | 3.59 | 6.73 | MgO |  |
| Al K | 38.74 | 30.84 | 73.19 | Al2O3 |  |
| Si K | 3.63 | 2.78 | 7.77 | SiO2 |  |
| P K | 0.00 | 0.00 | 0.00 | P2O5 |  |
| S K | 0.00 | 0.00 | 0.01 | SO3 |  |
| Cl K | 0.07 | 0.04 | 0.00 |  |  |
| K K | -0.04 | -0.02 | -0.05 | K2O |  |
| Ca K | -0.10 | -0.05 | -0.14 | CaO |  |
| Fe L | 10.38 | 3.99 | 13.35 | FeO |  |
| Ni L | -0.81 | -0.30 | -1.03 | NiO |  |
| O | 44.00 | 59.07 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 24