

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 = 68312

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.74 | 916900 |
|  |  |  |  |
| 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

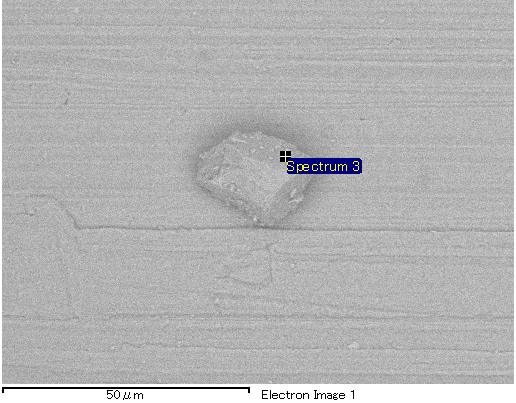
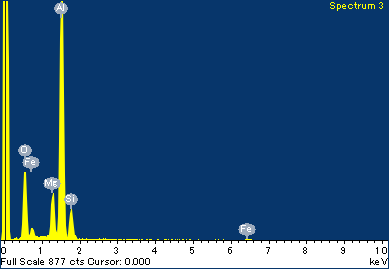
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.13 | 0.12 | 0.18 | Na2O |  |
| Mg K | 4.39 | 3.90 | 7.28 | MgO |  |
| Al K | 36.02 | 28.83 | 68.06 | Al2O3 |  |
| Si K | 4.95 | 3.80 | 10.58 | SiO2 |  |
| P K | 0.06 | 0.04 | 0.13 | P2O5 |  |
| S K | 0.07 | 0.05 | 0.17 | SO3 |  |
| Cl K | -0.16 | -0.10 | 0.00 |  |  |
| K K | -0.02 | -0.01 | -0.03 | K2O |  |
| Ca K | 0.14 | 0.07 | 0.19 | CaO |  |
| Fe L | 10.48 | 4.05 | 13.48 | FeO |  |
| Ni L | 0.08 | 0.03 | 0.10 | NiO |  |
| O | 43.86 | 59.21 |  |  |  |
| 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 = 69121

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.69 | 917812 |
|  |  |  |  |
| 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

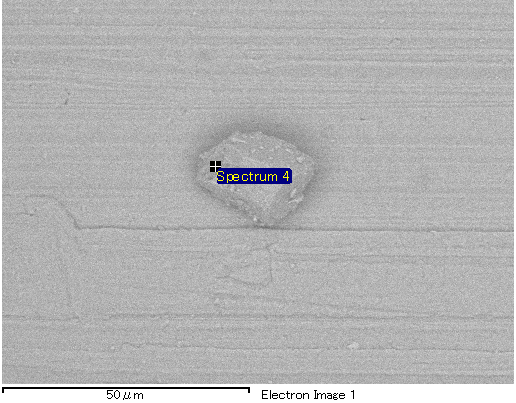
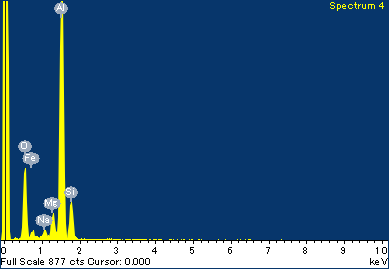
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.02 | 0.02 | 0.02 | Na2O |  |
| Mg K | 4.98 | 4.41 | 8.27 | MgO |  |
| Al K | 36.37 | 28.97 | 68.71 | Al2O3 |  |
| Si K | 4.89 | 3.74 | 10.47 | SiO2 |  |
| P K | 0.04 | 0.03 | 0.09 | P2O5 |  |
| S K | -0.05 | -0.03 | -0.13 | SO3 |  |
| Cl K | 0.21 | 0.13 | 0.00 |  |  |
| K K | 0.05 | 0.03 | 0.06 | K2O |  |
| Ca K | -0.02 | -0.01 | -0.03 | CaO |  |
| Fe L | 9.91 | 3.81 | 12.75 | FeO |  |
| Ni L | -0.33 | -0.12 | -0.42 | NiO |  |
| O | 43.93 | 59.03 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



Spectrum Label: Spectrum 4

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68644

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.72 | 917057 |
|  |  |  |  |
| 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

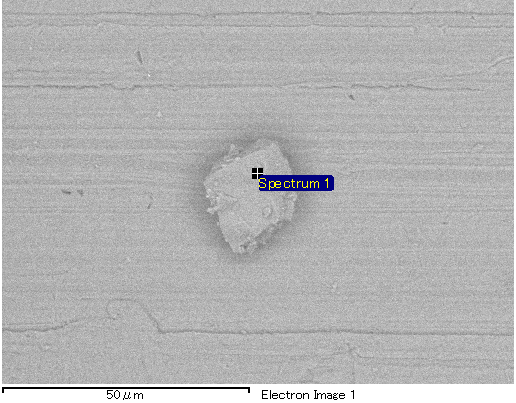
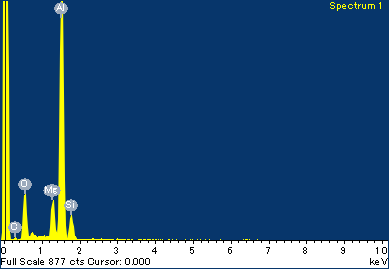
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.86 | 0.80 | 1.16 | Na2O |  |
| Mg K | 2.51 | 2.20 | 4.16 | MgO |  |
| Al K | 36.72 | 29.02 | 69.37 | Al2O3 |  |
| Si K | 6.48 | 4.92 | 13.86 | SiO2 |  |
| P K | 0.11 | 0.08 | 0.26 | P2O5 |  |
| S K | 0.09 | 0.06 | 0.23 | SO3 |  |
| Cl K | -0.14 | -0.09 | 0.00 |  |  |
| K K | 0.05 | 0.03 | 0.06 | K2O |  |
| Ca K | 0.26 | 0.14 | 0.36 | CaO |  |
| Fe L | 8.17 | 3.12 | 10.51 | FeO |  |
| Ni L | 0.13 | 0.05 | 0.16 | NiO |  |
| O | 44.76 | 59.67 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 8



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 = 67237

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.71 | 920263 |
|  |  |  |  |
| 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

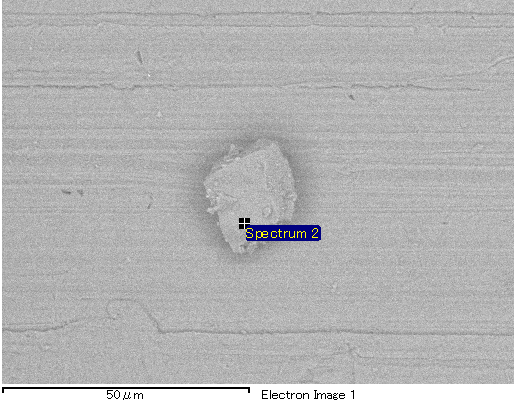
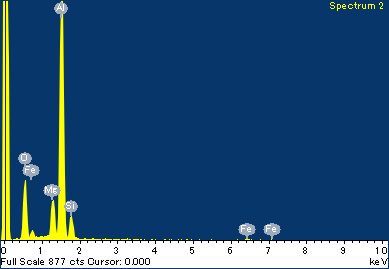
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.08 | 0.07 | 0.10 | Na2O |  |
| Mg K | 4.69 | 4.06 | 7.78 | MgO |  |
| Al K | 39.06 | 30.44 | 73.81 | Al2O3 |  |
| Si K | 4.63 | 3.47 | 9.90 | SiO2 |  |
| P K | 0.16 | 0.11 | 0.37 | P2O5 |  |
| S K | 0.16 | 0.11 | 0.40 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | 0.21 | 0.11 | 0.25 | K2O |  |
| Ca K | -0.05 | -0.03 | -0.08 | CaO |  |
| Fe L | 6.07 | 2.29 | 7.81 | FeO |  |
| Ni L | -0.24 | -0.09 | -0.31 | NiO |  |
| O | 45.28 | 59.50 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 9



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 = 68249

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.67 | 916926 |
|  |  |  |  |
| 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 | 4.60 | 4.04 | 7.62 | MgO |  |
| Al K | 37.78 | 29.94 | 71.39 | Al2O3 |  |
| Si K | 4.62 | 3.52 | 9.89 | SiO2 |  |
| P K | -0.21 | -0.15 | -0.49 | P2O5 |  |
| S K | 0.18 | 0.12 | 0.44 | SO3 |  |
| Cl K | 0.14 | 0.09 | 0.00 |  |  |
| K K | -0.11 | -0.06 | -0.13 | K2O |  |
| Ca K | -0.11 | -0.06 | -0.15 | CaO |  |
| Fe L | 9.23 | 3.53 | 11.87 | FeO |  |
| Ni L | -0.36 | -0.13 | -0.46 | NiO |  |
| O | 44.33 | 59.24 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 9