

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 = 68443

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.59 | 919077 |
|  |  |  |  |
| 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

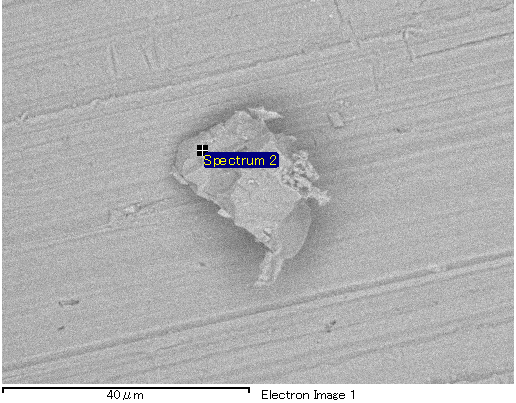
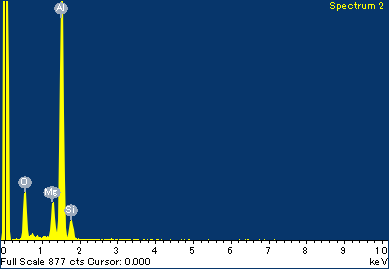
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.09 | 0.08 | 0.12 | Na2O |  |
| Mg K | 5.29 | 4.74 | 8.78 | MgO |  |
| Al K | 34.53 | 27.83 | 65.24 | Al2O3 |  |
| Si K | 5.02 | 3.88 | 10.73 | SiO2 |  |
| P K | -0.01 | -0.01 | -0.03 | P2O5 |  |
| S K | -0.02 | -0.01 | -0.04 | SO3 |  |
| Cl K | -0.01 | 0.00 | 0.00 |  |  |
| K K | -0.02 | -0.01 | -0.02 | K2O |  |
| Ca K | 0.19 | 0.10 | 0.27 | CaO |  |
| Fe L | 12.23 | 4.76 | 15.73 | FeO |  |
| Ni L | -0.60 | -0.22 | -0.76 | NiO |  |
| O | 43.31 | 58.86 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13



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 = 65838

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 918134 |
|  |  |  |  |
| 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

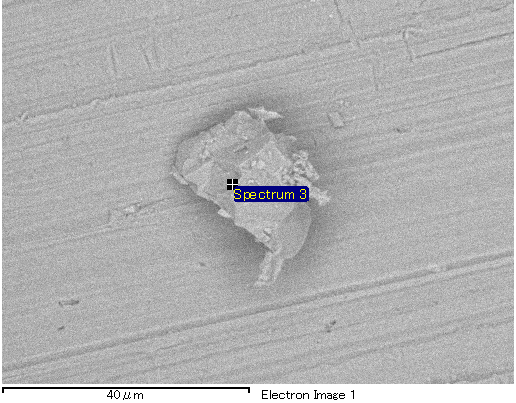
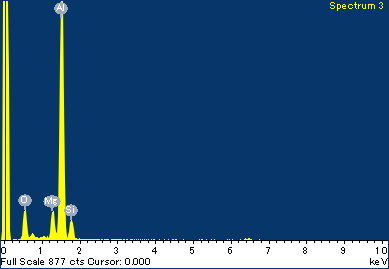
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.15 | 0.14 | 0.20 | Na2O |  |
| Mg K | 4.43 | 3.82 | 7.34 | MgO |  |
| Al K | 40.02 | 31.13 | 75.61 | Al2O3 |  |
| Si K | 4.46 | 3.33 | 9.54 | SiO2 |  |
| P K | -0.05 | -0.04 | -0.13 | P2O5 |  |
| S K | 0.10 | 0.07 | 0.25 | SO3 |  |
| Cl K | 0.19 | 0.11 | 0.00 |  |  |
| K K | -0.17 | -0.09 | -0.20 | K2O |  |
| Ca K | 0.10 | 0.05 | 0.14 | CaO |  |
| Fe L | 5.08 | 1.91 | 6.53 | FeO |  |
| Ni L | 0.40 | 0.14 | 0.52 | NiO |  |
| O | 45.29 | 59.42 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13



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 = 65509

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.58 | 918835 |
|  |  |  |  |
| 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

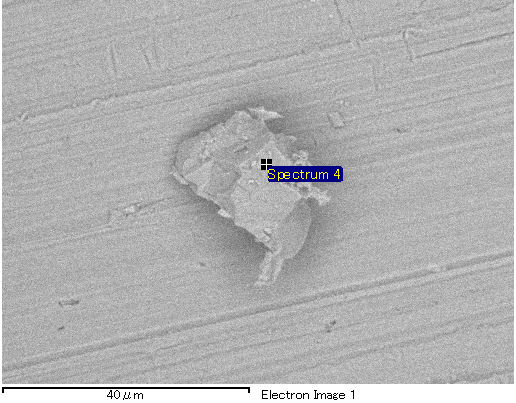
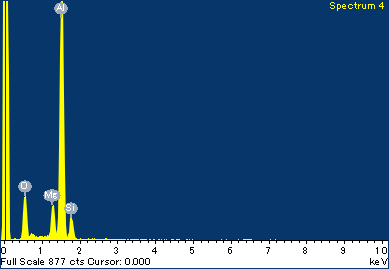
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.08 | 0.08 | 0.11 | Na2O |  |
| Mg K | 3.70 | 3.21 | 6.14 | MgO |  |
| Al K | 40.67 | 31.72 | 76.84 | Al2O3 |  |
| Si K | 4.60 | 3.45 | 9.84 | SiO2 |  |
| P K | -0.19 | -0.13 | -0.43 | P2O5 |  |
| S K | -0.12 | -0.08 | -0.31 | SO3 |  |
| Cl K | 0.10 | 0.06 | 0.00 |  |  |
| K K | 0.11 | 0.06 | 0.14 | K2O |  |
| Ca K | 0.07 | 0.04 | 0.09 | CaO |  |
| Fe L | 5.94 | 2.24 | 7.64 | FeO |  |
| Ni L | -0.13 | -0.05 | -0.17 | NiO |  |
| O | 45.17 | 59.41 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13



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 = 67186

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 918090 |
|  |  |  |  |
| 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

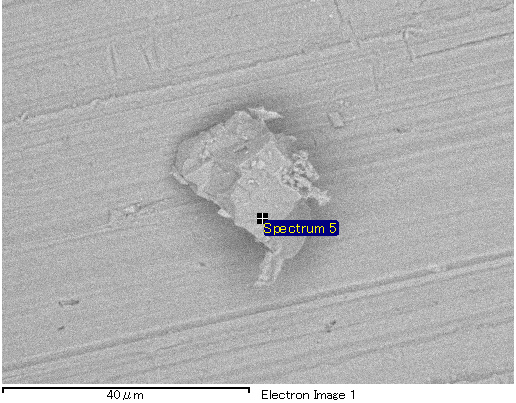
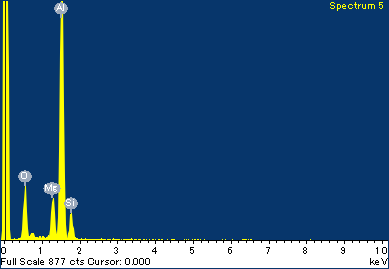
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.07 | -0.06 | -0.09 | Na2O |  |
| Mg K | 4.03 | 3.47 | 6.68 | MgO |  |
| Al K | 40.40 | 31.37 | 76.33 | Al2O3 |  |
| Si K | 4.47 | 3.33 | 9.56 | SiO2 |  |
| P K | 0.10 | 0.07 | 0.22 | P2O5 |  |
| S K | 0.16 | 0.11 | 0.41 | SO3 |  |
| Cl K | 0.08 | 0.05 | 0.00 |  |  |
| K K | -0.01 | 0.00 | -0.01 | K2O |  |
| Ca K | 0.17 | 0.09 | 0.23 | CaO |  |
| Fe L | 5.28 | 1.98 | 6.79 | FeO |  |
| Ni L | -0.16 | -0.06 | -0.20 | NiO |  |
| O | 45.55 | 59.66 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13



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 = 66670

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.59 | 917552 |
|  |  |  |  |
| 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

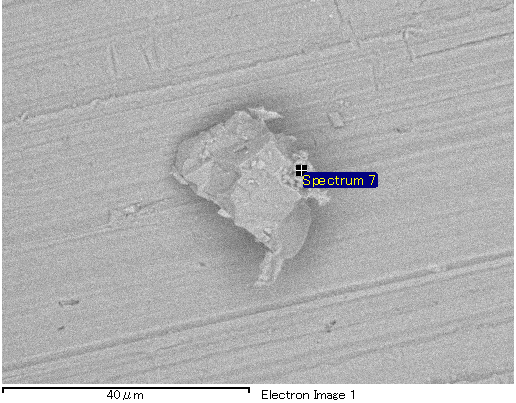
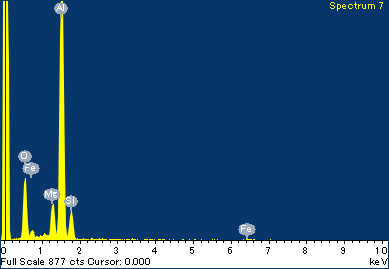
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.15 | -0.14 | -0.20 | Na2O |  |
| Mg K | 5.10 | 4.44 | 8.46 | MgO |  |
| Al K | 38.39 | 30.10 | 72.53 | Al2O3 |  |
| Si K | 4.83 | 3.64 | 10.32 | SiO2 |  |
| P K | -0.10 | -0.07 | -0.23 | P2O5 |  |
| S K | -0.02 | -0.01 | -0.04 | SO3 |  |
| Cl K | -0.01 | -0.01 | 0.00 |  |  |
| K K | 0.03 | 0.02 | 0.04 | K2O |  |
| Ca K | 0.20 | 0.11 | 0.28 | CaO |  |
| Fe L | 7.26 | 2.75 | 9.33 | FeO |  |
| Ni L | -0.38 | -0.14 | -0.49 | NiO |  |
| O | 44.85 | 59.31 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13



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 = 68663

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.68 | 919548 |
|  |  |  |  |
| 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 | 0.27 | 0.26 | 0.37 | Na2O |  |
| Mg K | 3.99 | 3.52 | 6.61 | MgO |  |
| Al K | 36.95 | 29.36 | 69.81 | Al2O3 |  |
| Si K | 5.05 | 3.86 | 10.81 | SiO2 |  |
| P K | -0.04 | -0.03 | -0.09 | P2O5 |  |
| S K | 0.17 | 0.12 | 0.43 | SO3 |  |
| Cl K | 0.08 | 0.05 | 0.00 |  |  |
| K K | 0.05 | 0.03 | 0.06 | K2O |  |
| Ca K | 0.11 | 0.06 | 0.15 | CaO |  |
| Fe L | 9.29 | 3.57 | 11.95 | FeO |  |
| Ni L | -0.15 | -0.05 | -0.19 | NiO |  |
| O | 44.22 | 59.27 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 13