

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 = 69480

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.55 | 918652 |
|  |  |  |  |
| 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

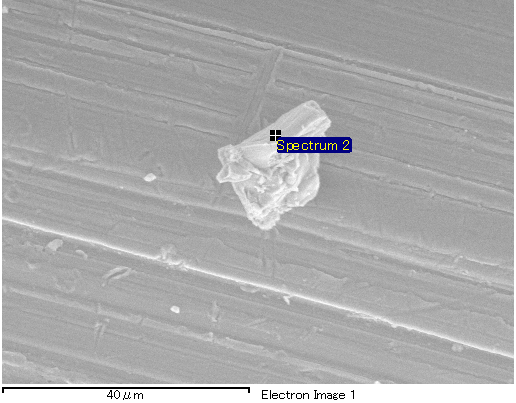
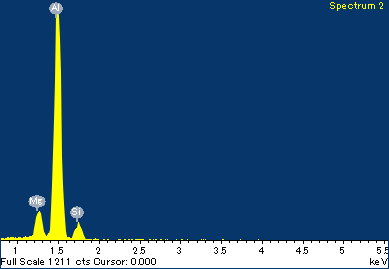
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.14 | -0.12 | -0.18 | Na2O |  |
| Mg K | 4.78 | 4.13 | 7.92 | MgO |  |
| Al K | 40.08 | 31.24 | 75.73 | Al2O3 |  |
| Si K | 4.38 | 3.28 | 9.38 | SiO2 |  |
| P K | -0.11 | -0.07 | -0.24 | P2O5 |  |
| S K | -0.09 | -0.06 | -0.23 | SO3 |  |
| Cl K | -0.07 | -0.04 | 0.00 |  |  |
| K K | -0.09 | -0.05 | -0.11 | K2O |  |
| Ca K | 0.05 | 0.02 | 0.06 | CaO |  |
| Fe L | 6.15 | 2.31 | 7.91 | FeO |  |
| Ni L | -0.14 | -0.05 | -0.17 | NiO |  |
| O | 45.19 | 59.40 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46



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 = 69924

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.47 | 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

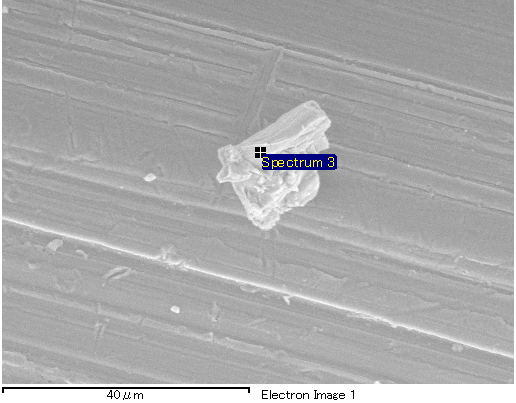
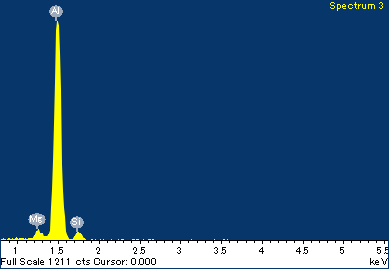
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.06 | -0.06 | -0.09 | Na2O |  |
| Mg K | 4.11 | 3.62 | 6.81 | MgO |  |
| Al K | 39.16 | 31.10 | 73.99 | Al2O3 |  |
| Si K | 3.65 | 2.79 | 7.81 | SiO2 |  |
| P K | -0.05 | -0.03 | -0.11 | P2O5 |  |
| S K | -0.06 | -0.04 | -0.16 | SO3 |  |
| Cl K | 0.00 | 0.00 | 0.00 |  |  |
| K K | 0.20 | 0.11 | 0.24 | K2O |  |
| Ca K | -0.13 | -0.07 | -0.18 | CaO |  |
| Fe L | 9.81 | 3.76 | 12.62 | FeO |  |
| Ni L | -0.74 | -0.27 | -0.94 | NiO |  |
| O | 44.11 | 59.09 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46



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 = 66049

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.50 | 919576 |
|  |  |  |  |
| 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

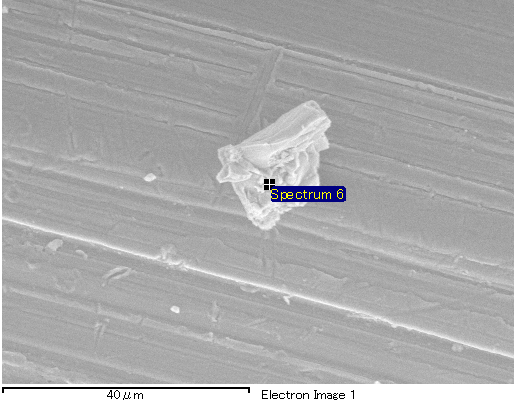
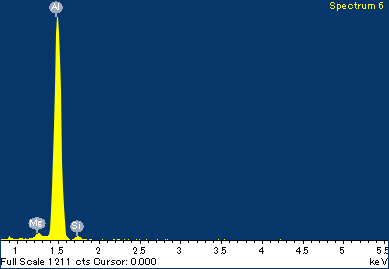
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.08 | 0.07 | 0.10 | Na2O |  |
| Mg K | 1.53 | 1.29 | 2.54 | MgO |  |
| Al K | 47.83 | 36.31 | 90.38 | Al2O3 |  |
| Si K | 2.69 | 1.96 | 5.76 | SiO2 |  |
| P K | 0.04 | 0.03 | 0.09 | P2O5 |  |
| S K | -0.06 | -0.04 | -0.15 | SO3 |  |
| Cl K | 0.14 | 0.08 | 0.00 |  |  |
| K K | 0.09 | 0.05 | 0.11 | K2O |  |
| Ca K | -0.15 | -0.08 | -0.21 | CaO |  |
| Fe L | 1.38 | 0.51 | 1.77 | FeO |  |
| Ni L | -0.42 | -0.15 | -0.53 | NiO |  |
| O | 46.85 | 59.97 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46



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 = 65589

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.52 | 919311 |
|  |  |  |  |
| 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

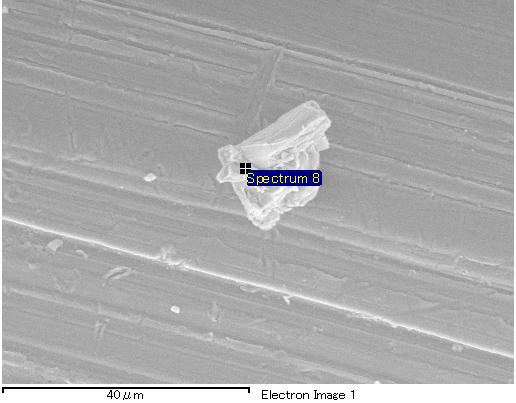
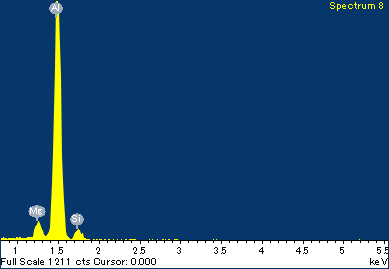
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.22 | 0.19 | 0.29 | Na2O |  |
| Mg K | 0.89 | 0.74 | 1.48 | MgO |  |
| Al K | 51.90 | 38.75 | 98.07 | Al2O3 |  |
| Si K | 1.17 | 0.84 | 2.49 | SiO2 |  |
| P K | 0.18 | 0.12 | 0.41 | P2O5 |  |
| S K | 0.04 | 0.02 | 0.09 | SO3 |  |
| Cl K | 0.01 | 0.00 | 0.00 |  |  |
| K K | -0.10 | -0.05 | -0.12 | K2O |  |
| Ca K | -0.33 | -0.17 | -0.46 | CaO |  |
| Fe L | -1.16 | -0.42 | -1.49 | FeO |  |
| Ni L | -0.60 | -0.20 | -0.76 | NiO |  |
| O | 47.79 | 60.18 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46



Spectrum Label: Spectrum 8

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68399

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.52 | 918083 |
|  |  |  |  |
| 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

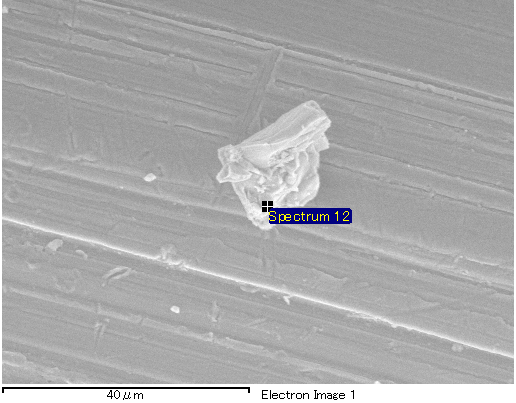
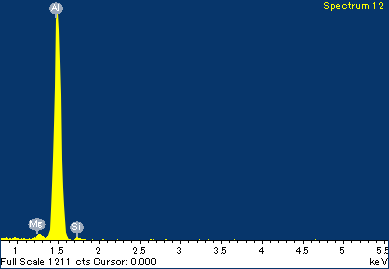
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.03 | 0.05 | Na2O |  |
| Mg K | 2.70 | 2.32 | 4.47 | MgO |  |
| Al K | 44.54 | 34.46 | 84.15 | Al2O3 |  |
| Si K | 2.70 | 2.01 | 5.78 | SiO2 |  |
| P K | 0.05 | 0.04 | 0.12 | P2O5 |  |
| S K | -0.10 | -0.07 | -0.26 | SO3 |  |
| Cl K | 0.11 | 0.06 | 0.00 |  |  |
| K K | -0.26 | -0.14 | -0.31 | K2O |  |
| Ca K | 0.13 | 0.07 | 0.18 | CaO |  |
| Fe L | 3.97 | 1.48 | 5.10 | FeO |  |
| Ni L | 0.48 | 0.17 | 0.61 | NiO |  |
| O | 45.66 | 59.57 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46



Spectrum Label: Spectrum 12

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 65154

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.56 | 918410 |
|  |  |  |  |
| 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 | -0.13 | -0.20 | Na2O |  |
| Mg K | 0.76 | 0.63 | 1.26 | MgO |  |
| Al K | 51.87 | 39.05 | 98.00 | Al2O3 |  |
| Si K | 0.80 | 0.58 | 1.71 | SiO2 |  |
| P K | 0.05 | 0.03 | 0.12 | P2O5 |  |
| S K | -0.03 | -0.02 | -0.08 | SO3 |  |
| Cl K | 0.20 | 0.11 | 0.00 |  |  |
| K K | 0.08 | 0.04 | 0.10 | K2O |  |
| Ca K | -0.07 | -0.03 | -0.10 | CaO |  |
| Fe L | -1.17 | -0.43 | -1.50 | FeO |  |
| Ni L | 0.39 | 0.13 | 0.49 | NiO |  |
| O | 47.27 | 60.02 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 46