

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 = 65175

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.56 | 919174 |
|  |  |  |  |
| 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

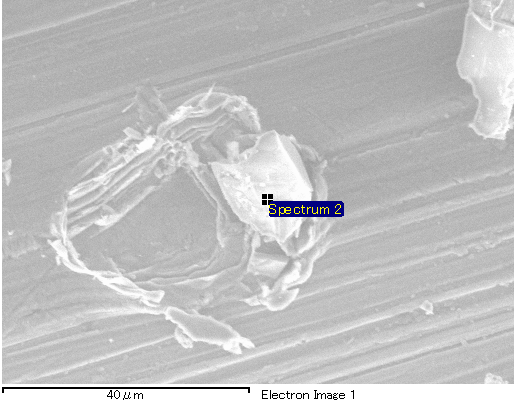
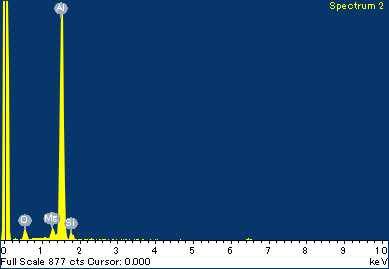
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.17 | -0.16 | -0.23 | Na2O |  |
| Mg K | 4.30 | 3.79 | 7.13 | MgO |  |
| Al K | 38.29 | 30.41 | 72.34 | Al2O3 |  |
| Si K | 4.35 | 3.32 | 9.30 | SiO2 |  |
| P K | -0.21 | -0.14 | -0.47 | P2O5 |  |
| S K | 0.04 | 0.02 | 0.09 | SO3 |  |
| Cl K | -0.07 | -0.04 | 0.00 |  |  |
| K K | 0.15 | 0.08 | 0.18 | K2O |  |
| Ca K | 0.05 | 0.03 | 0.07 | CaO |  |
| Fe L | 8.60 | 3.30 | 11.06 | FeO |  |
| Ni L | 0.47 | 0.17 | 0.60 | NiO |  |
| O | 44.21 | 59.22 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 18



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 = 62637

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.45 | 921346 |
|  |  |  |  |
| 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

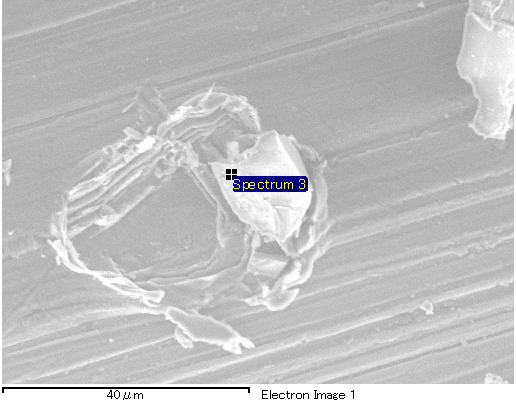
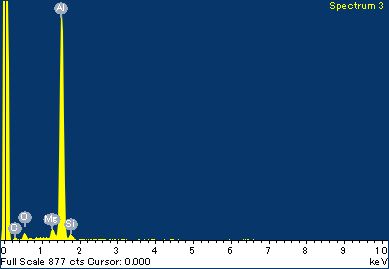
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.23 | 0.20 | 0.31 | Na2O |  |
| Mg K | 1.33 | 1.11 | 2.20 | MgO |  |
| Al K | 49.45 | 37.34 | 93.43 | Al2O3 |  |
| Si K | 1.83 | 1.33 | 3.92 | SiO2 |  |
| P K | -0.07 | -0.05 | -0.17 | P2O5 |  |
| S K | 0.10 | 0.07 | 0.26 | SO3 |  |
| Cl K | 0.37 | 0.21 | 0.00 |  |  |
| K K | -0.28 | -0.14 | -0.33 | K2O |  |
| Ca K | 0.13 | 0.07 | 0.18 | CaO |  |
| Fe L | 0.08 | 0.03 | 0.10 | FeO |  |
| Ni L | -0.21 | -0.07 | -0.27 | NiO |  |
| O | 47.04 | 59.91 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 18



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 = 62948

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.46 | 919168 |
|  |  |  |  |
| 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

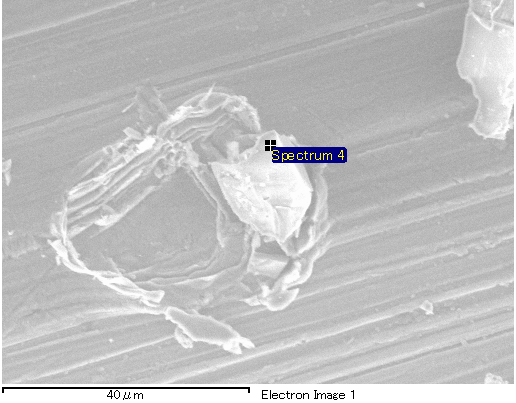
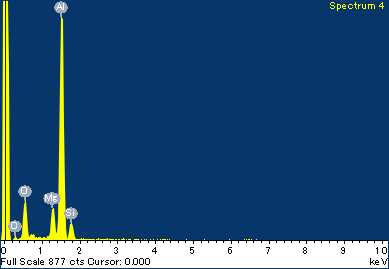
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.09 | -0.08 | -0.12 | Na2O |  |
| Mg K | 1.69 | 1.42 | 2.80 | MgO |  |
| Al K | 48.98 | 37.15 | 92.55 | Al2O3 |  |
| Si K | 1.47 | 1.07 | 3.15 | SiO2 |  |
| P K | 0.19 | 0.12 | 0.43 | P2O5 |  |
| S K | 0.03 | 0.02 | 0.07 | SO3 |  |
| Cl K | 0.02 | 0.01 | 0.00 |  |  |
| K K | -0.02 | -0.01 | -0.02 | K2O |  |
| Ca K | 0.21 | 0.11 | 0.30 | CaO |  |
| Fe L | 0.58 | 0.21 | 0.74 | FeO |  |
| Ni L | 0.07 | 0.02 | 0.09 | NiO |  |
| O | 46.87 | 59.95 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 18



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 = 64778

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.58 | 917927 |
|  |  |  |  |
| 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

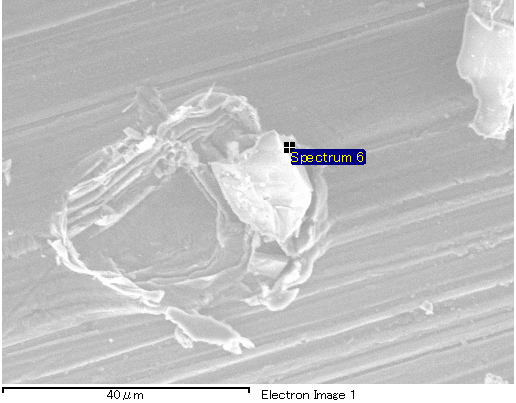
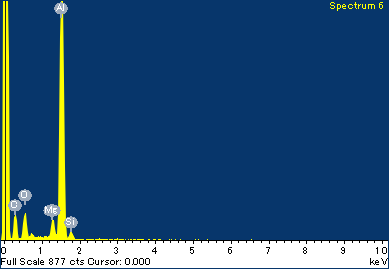
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.09 | -0.08 | -0.12 | Na2O |  |
| Mg K | 4.36 | 3.77 | 7.24 | MgO |  |
| Al K | 40.33 | 31.41 | 76.21 | Al2O3 |  |
| Si K | 4.29 | 3.21 | 9.17 | SiO2 |  |
| P K | 0.21 | 0.14 | 0.48 | P2O5 |  |
| S K | -0.17 | -0.11 | -0.44 | SO3 |  |
| Cl K | 0.05 | 0.03 | 0.00 |  |  |
| K K | -0.10 | -0.05 | -0.12 | K2O |  |
| Ca K | 0.11 | 0.06 | 0.15 | CaO |  |
| Fe L | 6.06 | 2.28 | 7.79 | FeO |  |
| Ni L | -0.32 | -0.11 | -0.41 | NiO |  |
| O | 45.28 | 59.47 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 18



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 = 66976

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.54 | 921006 |
|  |  |  |  |
| 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 | 0.09 | 0.13 | Na2O |  |
| Mg K | 2.33 | 2.00 | 3.86 | MgO |  |
| Al K | 45.31 | 35.17 | 85.61 | Al2O3 |  |
| Si K | 1.64 | 1.23 | 3.52 | SiO2 |  |
| P K | 0.28 | 0.19 | 0.63 | P2O5 |  |
| S K | -0.01 | -0.01 | -0.03 | SO3 |  |
| Cl K | 0.27 | 0.16 | 0.00 |  |  |
| K K | 0.02 | 0.01 | 0.02 | K2O |  |
| Ca K | -0.12 | -0.07 | -0.17 | CaO |  |
| Fe L | 4.81 | 1.81 | 6.19 | FeO |  |
| Ni L | -0.02 | -0.01 | -0.03 | NiO |  |
| O | 45.40 | 59.43 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 18