

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 = 69241

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.67 | 918184 |
|  |  |  |  |
| 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

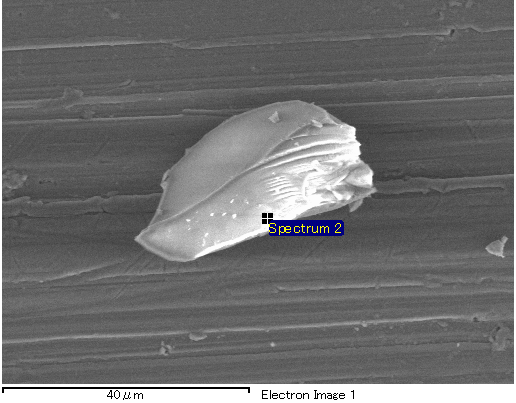
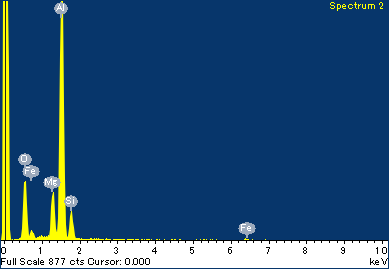
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | 0.21 | 0.30 | Na2O |  |
| Mg K | 4.81 | 4.36 | 7.97 | MgO |  |
| Al K | 34.01 | 27.82 | 64.27 | Al2O3 |  |
| Si K | 4.41 | 3.46 | 9.43 | SiO2 |  |
| P K | 0.02 | 0.01 | 0.04 | P2O5 |  |
| S K | -0.08 | -0.06 | -0.20 | SO3 |  |
| Cl K | -0.16 | -0.10 | 0.00 |  |  |
| K K | -0.05 | -0.03 | -0.06 | K2O |  |
| Ca K | -0.02 | -0.01 | -0.03 | CaO |  |
| Fe L | 15.17 | 5.99 | 19.51 | FeO |  |
| Ni L | -0.84 | -0.32 | -1.07 | NiO |  |
| O | 42.52 | 58.64 |  |  |  |
| Totals | 100.00 |  |  |  |  |



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 = 67833

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 917621 |
|  |  |  |  |
| 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

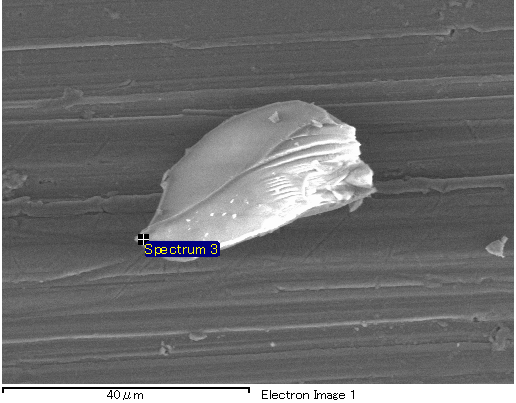
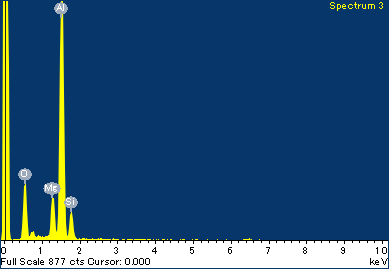
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | -0.05 | -0.04 | -0.06 | Na2O |  |
| Mg K | 5.55 | 4.92 | 9.21 | MgO |  |
| Al K | 35.65 | 28.48 | 67.36 | Al2O3 |  |
| Si K | 4.78 | 3.67 | 10.22 | SiO2 |  |
| P K | 0.02 | 0.01 | 0.04 | P2O5 |  |
| S K | -0.03 | -0.02 | -0.09 | SO3 |  |
| Cl K | -0.10 | -0.06 | 0.00 |  |  |
| K K | 0.08 | 0.04 | 0.10 | K2O |  |
| Ca K | 0.25 | 0.13 | 0.35 | CaO |  |
| Fe L | 10.31 | 3.98 | 13.26 | FeO |  |
| Ni L | -0.21 | -0.08 | -0.27 | NiO |  |
| O | 43.77 | 58.97 |  |  |  |
| Totals | 100.00 |  |  |  |  |



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 = 67653

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.63 | 918273 |
|  |  |  |  |
| 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

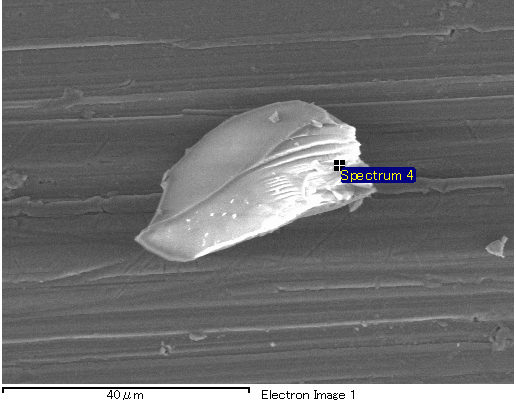
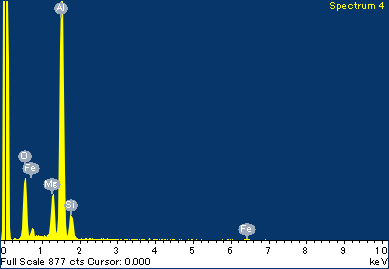
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | 4.87 | 4.24 | 8.08 | MgO |  |
| Al K | 38.00 | 29.76 | 71.79 | Al2O3 |  |
| Si K | 5.33 | 4.01 | 11.39 | SiO2 |  |
| P K | -0.16 | -0.11 | -0.37 | P2O5 |  |
| S K | 0.14 | 0.09 | 0.35 | SO3 |  |
| Cl K | -0.06 | -0.04 | 0.00 |  |  |
| K K | 0.13 | 0.07 | 0.16 | K2O |  |
| Ca K | 0.01 | 0.01 | 0.02 | CaO |  |
| Fe L | 6.76 | 2.56 | 8.69 | FeO |  |
| Ni L | 0.06 | 0.02 | 0.08 | NiO |  |
| O | 45.02 | 59.47 |  |  |  |
| Totals | 100.00 |  |  |  |  |



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 = 68615

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.65 | 917055 |
|  |  |  |  |
| 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

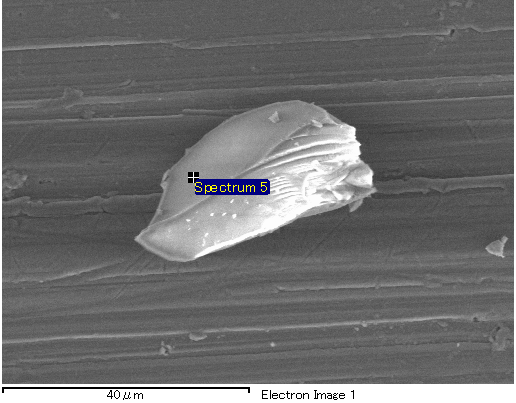
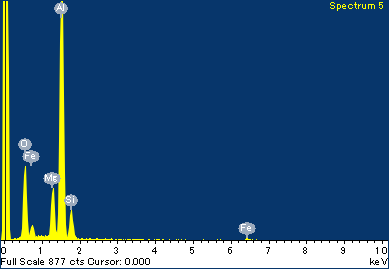
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | 0.03 | Na2O |  |
| Mg K | 4.75 | 4.23 | 7.88 | MgO |  |
| Al K | 36.28 | 29.11 | 68.54 | Al2O3 |  |
| Si K | 4.41 | 3.40 | 9.44 | SiO2 |  |
| P K | -0.01 | -0.01 | -0.02 | P2O5 |  |
| S K | 0.03 | 0.02 | 0.09 | SO3 |  |
| Cl K | -0.11 | -0.07 | 0.00 |  |  |
| K K | -0.01 | -0.01 | -0.01 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.10 | CaO |  |
| Fe L | 10.99 | 4.26 | 14.14 | FeO |  |
| Ni L | 0.10 | 0.04 | 0.13 | NiO |  |
| O | 43.61 | 59.03 |  |  |  |
| Totals | 100.00 |  |  |  |  |



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 = 68924

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.63 | 917468 |
|  |  |  |  |
| 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 | 5.32 | 4.77 | 8.83 | MgO |  |
| Al K | 34.93 | 28.18 | 66.00 | Al2O3 |  |
| Si K | 4.62 | 3.58 | 9.89 | SiO2 |  |
| P K | 0.26 | 0.18 | 0.59 | P2O5 |  |
| S K | -0.13 | -0.09 | -0.32 | SO3 |  |
| Cl K | -0.01 | 0.00 | 0.00 |  |  |
| K K | -0.06 | -0.03 | -0.07 | K2O |  |
| Ca K | -0.30 | -0.16 | -0.42 | CaO |  |
| Fe L | 12.39 | 4.83 | 15.93 | FeO |  |
| Ni L | -0.26 | -0.10 | -0.33 | NiO |  |
| O | 43.30 | 58.91 |  |  |  |
| Totals | 100.00 |  |  |  |  |