

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 = 67646

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 918057 |
|  |  |  |  |
| 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

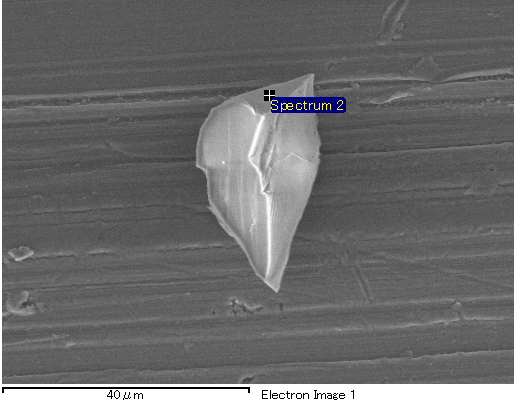
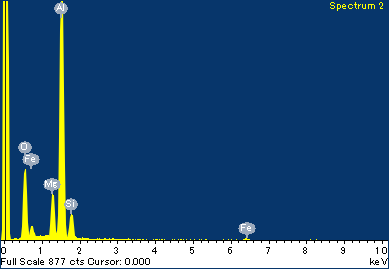
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | 4.54 | 3.92 | 7.53 | MgO |  |
| Al K | 40.27 | 31.28 | 76.09 | Al2O3 |  |
| Si K | 4.07 | 3.04 | 8.71 | SiO2 |  |
| P K | 0.13 | 0.09 | 0.31 | P2O5 |  |
| S K | 0.19 | 0.12 | 0.47 | SO3 |  |
| Cl K | -0.20 | -0.12 | 0.00 |  |  |
| K K | 0.01 | 0.01 | 0.01 | K2O |  |
| Ca K | -0.01 | -0.01 | -0.02 | CaO |  |
| Fe L | 5.99 | 2.25 | 7.71 | FeO |  |
| Ni L | -0.51 | -0.18 | -0.65 | NiO |  |
| O | 45.49 | 59.58 |  |  |  |
| 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 = 69578

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.64 | 916938 |
|  |  |  |  |
| 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

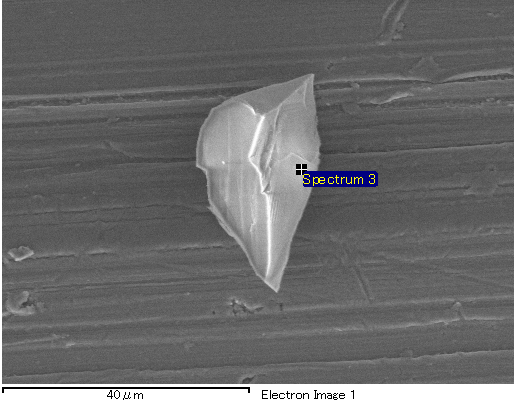
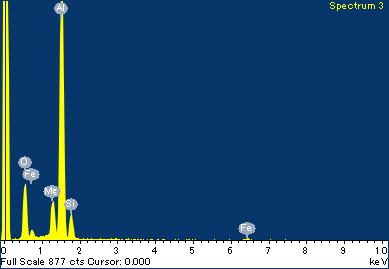
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | 0.00 | 0.00 | 0.00 | Na2O |  |
| Mg K | 5.10 | 4.60 | 8.46 | MgO |  |
| Al K | 34.99 | 28.40 | 66.11 | Al2O3 |  |
| Si K | 4.31 | 3.36 | 9.23 | SiO2 |  |
| P K | -0.06 | -0.04 | -0.14 | P2O5 |  |
| S K | -0.09 | -0.06 | -0.21 | SO3 |  |
| Cl K | 0.22 | 0.13 | 0.00 |  |  |
| K K | -0.02 | -0.01 | -0.02 | K2O |  |
| Ca K | -0.03 | -0.01 | -0.04 | CaO |  |
| Fe L | 12.95 | 5.08 | 16.66 | FeO |  |
| Ni L | -0.21 | -0.08 | -0.27 | NiO |  |
| O | 42.83 | 58.63 |  |  |  |
| 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 = 68496

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.63 | 918155 |
|  |  |  |  |
| 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

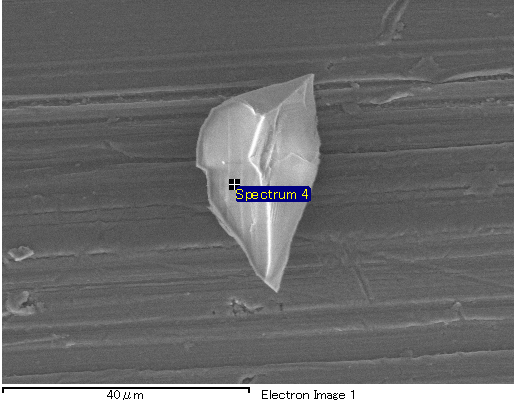
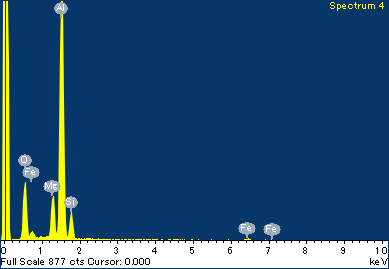
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | -0.18 | -0.17 | -0.24 | Na2O |  |
| Mg K | 4.57 | 4.00 | 7.58 | MgO |  |
| Al K | 38.33 | 30.19 | 72.42 | Al2O3 |  |
| Si K | 4.76 | 3.60 | 10.17 | SiO2 |  |
| P K | -0.14 | -0.09 | -0.31 | P2O5 |  |
| S K | 0.20 | 0.13 | 0.50 | SO3 |  |
| Cl K | -0.13 | -0.08 | 0.00 |  |  |
| K K | -0.17 | -0.09 | -0.20 | K2O |  |
| Ca K | -0.20 | -0.11 | -0.28 | CaO |  |
| Fe L | 8.78 | 3.34 | 11.29 | FeO |  |
| Ni L | -0.64 | -0.23 | -0.81 | NiO |  |
| O | 44.81 | 59.51 |  |  |  |
| 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 = 67501

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 917625 |
|  |  |  |  |
| 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

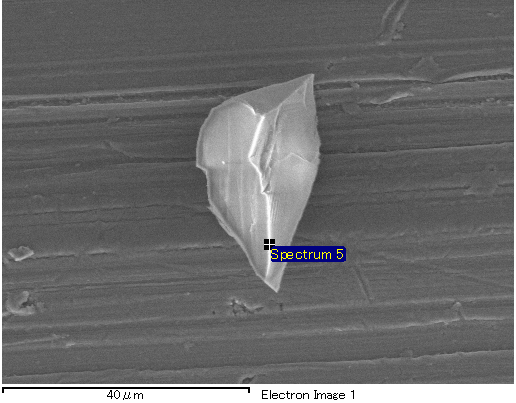
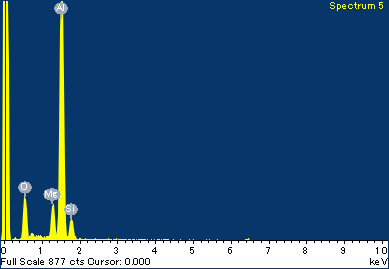
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

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 | -0.12 | -0.11 | -0.16 | Na2O |  |
| Mg K | 5.20 | 4.54 | 8.62 | MgO |  |
| Al K | 37.96 | 29.86 | 71.71 | Al2O3 |  |
| Si K | 4.87 | 3.68 | 10.41 | SiO2 |  |
| P K | -0.15 | -0.10 | -0.33 | P2O5 |  |
| S K | 0.02 | 0.02 | 0.06 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | 0.01 | 0.01 | 0.01 | K2O |  |
| Ca K | -0.12 | -0.07 | -0.17 | CaO |  |
| Fe L | 8.08 | 3.07 | 10.40 | FeO |  |
| Ni L | -0.39 | -0.14 | -0.50 | NiO |  |
| O | 44.69 | 59.28 |  |  |  |
| 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 = 68063

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.68 | 918244 |
|  |  |  |  |
| 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 | 4.07 | 3.51 | 6.75 | MgO |  |
| Al K | 41.16 | 31.98 | 77.77 | Al2O3 |  |
| Si K | 3.94 | 2.94 | 8.44 | SiO2 |  |
| P K | 0.11 | 0.07 | 0.25 | P2O5 |  |
| S K | -0.05 | -0.03 | -0.12 | SO3 |  |
| Cl K | -0.22 | -0.13 | 0.00 |  |  |
| K K | 0.10 | 0.06 | 0.13 | K2O |  |
| Ca K | 0.10 | 0.05 | 0.14 | CaO |  |
| Fe L | 5.69 | 2.14 | 7.32 | FeO |  |
| Ni L | -0.32 | -0.11 | -0.40 | NiO |  |
| O | 45.45 | 59.55 |  |  |  |
| Totals | 100.00 |  |  |  |  |