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| --- | --- | --- | --- | --- | --- |
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|  | Analytical settings and standards used for WDX analysis by EPMA | | | | |
|  | JEOL 8530F, Accelerating voltage: 12 kV, Current: 20 nA | | | | |
|  | Element | X-ray Line | analysing crystal | Standard | On Peak Time |
|  |
|  | F | Kα | LDE1 | topaz | 20 |
|  | Na | Kα | TAP | jadeite | 10 |
|  | Mg | Kα | TAP | dolomite | 10 |
|  | Si | Kα | TAP | plagioclase | 10 |
|  | P | Kα | PETH | apatite | 10 |
|  | S | Kα | PETH | baryte | 10 |
|  | Ca | Kα | PETH | calcite | 10 |
|  | Mn | Kα | LIFL | rhodochrosite | 20 |
|  | Fe | Kα | LIFL | siderite | 20 |
|  | Sr | Lα | TAP | celestine | 10 |
|  | Ba | Lα | PETH | baryte | 30 |
|  | La | Lα | LIFH | monazite | 10 |
|  | Ce | Lα | LIFH | monazite | 10 |
|  | Nd | Lα | LIFH | monazite | 20 |
|  | Sm | Lα | LIFH | monazite | 20 |
|  |  |  |  |  |  |
|  | counting times on each background were half the on-peak time | | | | |
|  | for analysis of calcite, dolomite-ankerite and carbocernaite | | | |  |
|  |  |  |  |  |  |