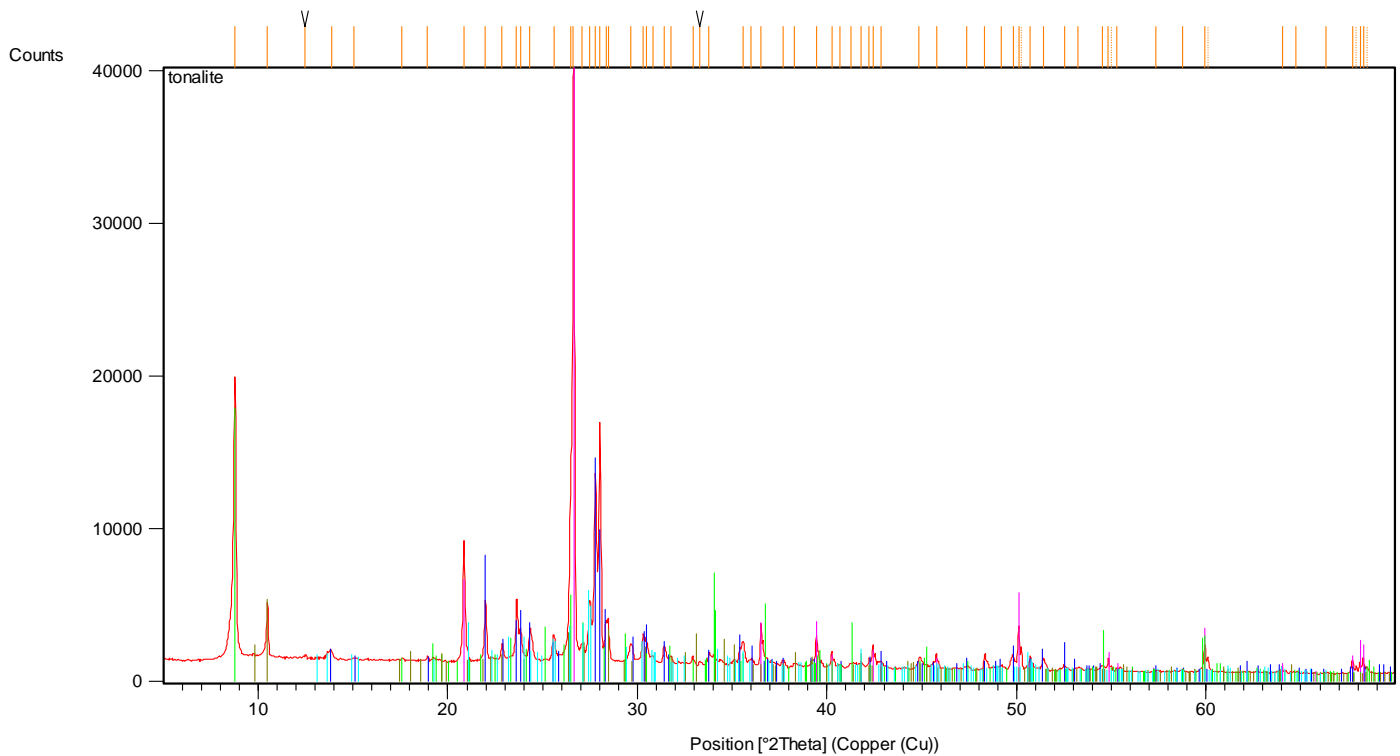
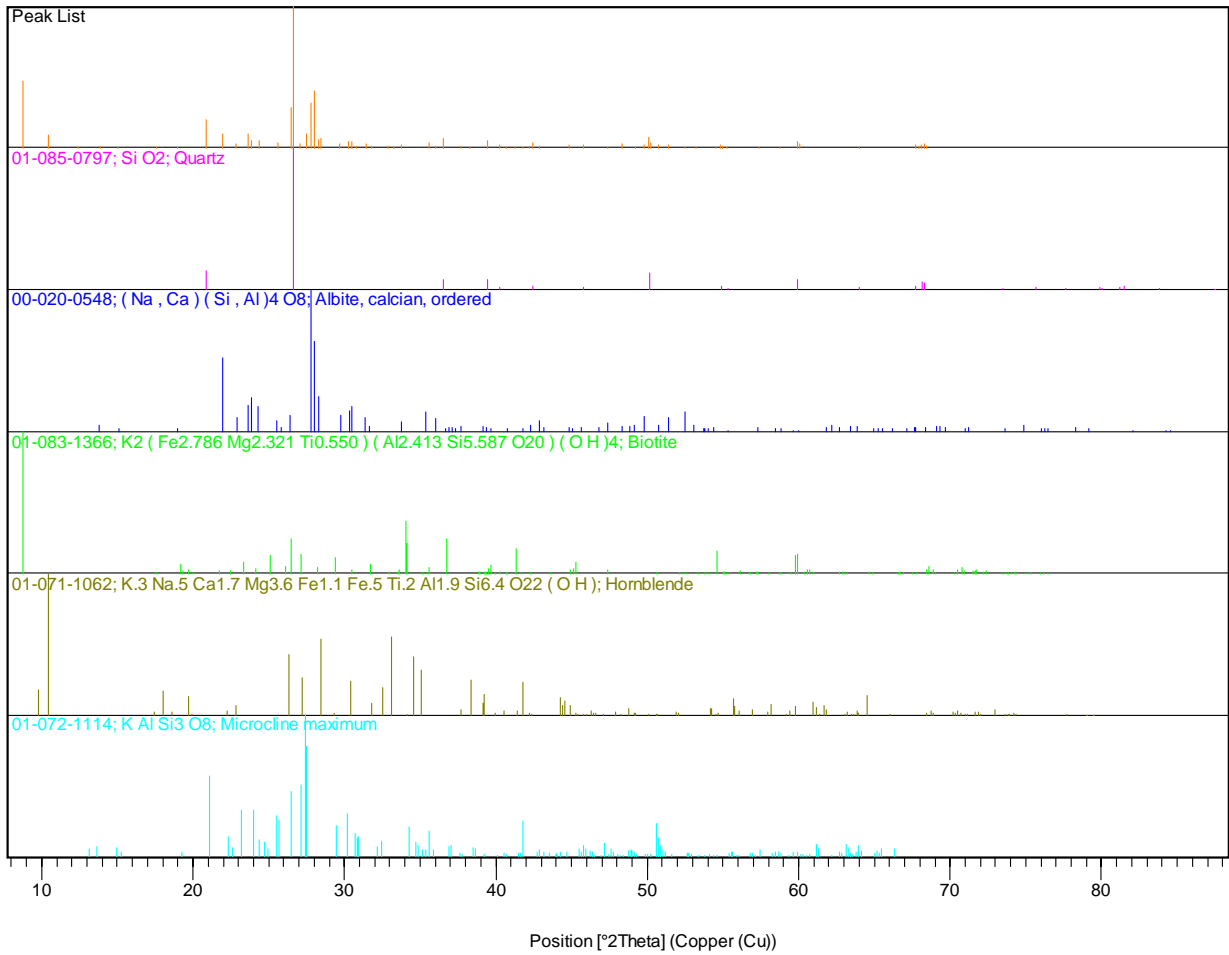


Campione di tonalite

| | |
|-----------|---|
| TEST | ANALISI DIFFRATTOMETRICA A RAGGI X |
| strumento | DIFFRATTOMETRO PANALYTICAL CUBIX FAST |
| esecutore | PANalytical srl Via Cadore 2120035 Lissone MI tel. 039-2434501 |



| Residue + Peak List |
|--|
| 01-085-0797; Si O ₂ ; Quartz |
| 00-020-0548; (Na , Ca) (Si , Al) ₄ O ₈ ; Albite; calcian, ordered |
| 01-083-1366; K ₂ (Fe _{2.786} Mg _{2.321} Ti _{0.550}) (Al _{2.413} Si _{5.587} O ₂₀) (OH) ₄ ; Biotite |
| 01-071-1062; K ₃ Na _{0.5} Ca _{1.7} Mg _{3.6} Fe _{1.1} Fe _{0.5} Ti _{0.2} Al _{1.9} Si _{6.4} O ₂₂ (OH) ₄ ; Hornblende |
| 01-072-1114; K Al Si ₃ O ₈ ; Microcline maximum |



Riflessi identificati

| Pos.[°2Th.] | Height [cts] | FWHM [°2Th.] | d-spacing [Å] | Rel. Int. [%] | Matched by |
|-------------|--------------|--------------|---------------|------------------|---|
| 8,7748 | 18426,20 | 0,0984 | 10,07768 | 46,99 | 01-083-1366 |
| 10,4822 | 3451,51 | 0,0787 | 8,43969 | 8,80 | 01-071-1062 |
| 12,4363 | 172,39 | 0,3149 | 7,11760 | 0,44 | |
| 13,8469 | 459,67 | 0,3149 | 6,39555 | 1,17 | 00-020-0548 |
| 15,0561 | 118,07 | 0,2362 | 5,88449 | 0,30 | 00-020-0548; 01-072-1114 |
| 17,5740 | 162,11 | 0,2362 | 5,04666 | 0,41 | 01-083-1366; 01-071-1062 |
| 18,9427 | 324,09 | 0,0984 | 4,68499 | 0,83 | 00-020-0548 |
| 20,8596 | 7824,37 | 0,0787 | 4,25859 | 19,95 | 01-085-0797 |
| 21,9895 | 3766,54 | 0,0984 | 4,04227 | 9,60 | 00-020-0548; 01-071-1062 |
| 22,8653 | 985,69 | 0,0984 | 3,88939 | 2,51 | 00-020-0548; 01-071-1062 |
| 23,6264 | 3998,05 | 0,0984 | 3,76578 | 10,19 | 00-020-0548 |
| 23,8383 | 1953,87 | 0,0984 | 3,73278 | 4,98 | 00-020-0548 |
| 24,3407 | 2031,38 | 0,1574 | 3,65686 | 5,18 | 00-020-0548; 01-072-1114 |
| 25,5752 | 1567,49 | 0,1378 | 3,48308 | 4,00 | 00-020-0548; 01-072-1114 |
| 26,4667 | 11119,11 | 0,0787 | 3,36774 | 28,35 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 26,6274 | 39216,33 | 0,1181 | 3,34779 | 100,00 | 01-085-0797; 01-083-1366 |
| 27,0900 | 975,64 | 0,0984 | 3,29167 | 2,49 | 01-083-1366; 01-071-1062; 01-072-1114 |
| 27,4676 | 3788,79 | 0,1181 | 3,24726 | 9,66 | 01-072-1114 |
| 27,7857 | 12282,55 | 0,0984 | 3,21081 | 31,32 | 00-020-0548 |
| 28,0048 | 15653,47 | 0,1181 | 3,18619 | 39,92 | 00-020-0548 |
| 28,3347 | 2482,38 | 0,0720 | 3,14723 | 6,33 | 00-020-0548; 01-083-1366; 01-071-1062 |
| 28,4505 | 2762,35 | 0,0787 | 3,13727 | 7,04 | 00-020-0548; 01-071-1062 |
| 29,6613 | 1207,61 | 0,1181 | 3,01191 | 3,08 | 00-020-0548; 01-071-1062 |
| 30,3019 | 1849,09 | 0,0787 | 2,94968 | 4,72 | 00-020-0548; 01-071-1062; 01-072-1114 |
| 30,4614 | 1593,11 | 0,0590 | 2,93460 | 4,06 | 00-020-0548; 01-083-1366; 01-071-1062 |
| 30,8057 | 415,00 | 0,1574 | 2,90258 | 1,06 | 01-072-1114 |
| 31,4140 | 1109,81 | 0,1378 | 2,84775 | 2,83 | 00-020-0548 |
| 31,7653 | 450,54 | 0,1378 | 2,81705 | 1,15 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 32,9151 | 580,18 | 0,0590 | 2,72123 | 1,48 | 01-083-1366 |
| 33,2883 | 226,90 | 0,0590 | 2,69157 | 0,58 | |
| 33,7828 | 766,81 | 0,0787 | 2,65329 | 1,96 | 00-020-0548; 01-083-1366 |
| 35,5977 | 1444,71 | 0,1574 | 2,52207 | 3,68 | 01-083-1366; 01-072-1114 |
| 35,9930 | 392,43 | 0,1968 | 2,49527 | 1,00 | 00-020-0548; 01-071-1062; 01-072-1114 |
| 36,5214 | 2735,69 | 0,0787 | 2,46038 | 6,98 | 01-085-0797; 01-071-1062 |
| 37,6896 | 415,25 | 0,1968 | 2,38676 | 1,06 | 00-020-0548; 01-071-1062; 01-072-1114 |
| 38,2845 | 185,61 | 0,1574 | 2,35103 | 0,47 | 01-071-1062 |
| 39,4428 | 1929,09 | 0,0590 | 2,28462 | 4,92 | 01-085-0797; 00-020-0548; 01-083-1366 |
| 40,2635 | 933,60 | 0,0787 | 2,23992 | 2,38 | 01-085-0797; 01-083-1366 |
| 40,6709 | 111,73 | 0,1181 | 2,21842 | 0,28 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 41,2545 | 208,24 | 0,1968 | 2,18838 | 0,53 | 01-083-1366; 01-071-1062 |
| 41,7959 | 259,04 | 0,1574 | 2,16128 | 0,66 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 42,2272 | 570,28 | 0,0720 | 2,13842 | 1,45 | 00-020-0548; 01-083-1366; 01-071-1062 |
| 42,4254 | 1495,20 | 0,0590 | 2,13066 | 3,81 | 01-085-0797; 01-083-1366; 01-071-1062 |
| 42,8512 | 365,70 | 0,1574 | 2,11046 | 0,93 | 00-020-0548; 01-071-1062; 01-072-1114 |
| 44,8666 | 701,78 | 0,0984 | 2,02023 | 1,79 | 00-020-0548; 01-083-1366; 01-071-1062 |
| 45,7630 | 949,13 | 0,0787 | 1,98273 | 2,42 | 01-085-0797; 00-020-0548; 01-071-1062; 01-072-1114 |
| 47,3966 | 226,77 | 0,2362 | 1,91813 | 0,58 | 00-020-0548; 01-083-1366; 01-072-1114 |
| 48,3337 | 1017,30 | 0,0590 | 1,88311 | 2,59 | 00-020-0548; 01-071-1062; 01-072-1114 |
| 49,2014 | 286,56 | 0,0720 | 1,85038 | 0,73 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 49,8095 | 847,52 | 0,1181 | 1,83072 | 2,16 | 00-020-0548; 01-072-1114 |

| | | | | | |
|---------|---------|--------|---------|------|--|
| 50,1083 | 2850,39 | 0,0720 | 1,81900 | 7,27 | 01-085-0797; 01-071-1062; 01-072-1114 |
| 50,2491 | 1367,55 | 0,0720 | 1,81874 | 3,49 | |
| 50,7316 | 787,56 | 0,0720 | 1,79810 | 2,01 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 51,4285 | 730,98 | 0,1440 | 1,77536 | 1,86 | 00-020-0548; 01-083-1366; 01-071-1062 |
| 52,5197 | 276,08 | 0,1920 | 1,74101 | 0,70 | 00-020-0548; 01-083-1366; 01-072-1114 |
| 53,2579 | 109,55 | 0,3840 | 1,71861 | 0,28 | 01-083-1366; 01-071-1062; 01-072-1114 |
| 54,5149 | 251,47 | 0,2400 | 1,68192 | 0,64 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 54,8466 | 781,61 | 0,0960 | 1,67252 | 1,99 | 01-085-0797; 01-072-1114 |
| 55,0032 | 370,64 | 0,0720 | 1,67228 | 0,95 | |
| 55,2952 | 250,57 | 0,1920 | 1,66001 | 0,64 | 01-085-0797; 00-020-0548; 01-083-1366; 01-072-1114 |
| 57,3473 | 107,17 | 0,3840 | 1,60539 | 0,27 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 58,7665 | 90,89 | 0,2880 | 1,56996 | 0,23 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 59,9268 | 1750,99 | 0,0960 | 1,54230 | 4,46 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 60,0973 | 1018,30 | 0,0960 | 1,54216 | 2,60 | |
| 64,0092 | 345,41 | 0,0960 | 1,45343 | 0,88 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 64,7560 | 26,83 | 0,3840 | 1,43846 | 0,07 | 01-083-1366; 01-072-1114 |
| 66,3211 | 37,32 | 0,3840 | 1,40826 | 0,10 | 00-020-0548; 01-083-1366; 01-071-1062; 01-072-1114 |
| 67,7152 | 881,55 | 0,0960 | 1,38262 | 2,25 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062 |
| 67,9118 | 476,63 | 0,0720 | 1,38252 | 1,22 | |
| 68,1126 | 715,39 | 0,0720 | 1,37552 | 1,82 | 01-085-0797; 01-083-1366; 01-071-1062 |
| 68,2918 | 992,50 | 0,0960 | 1,37234 | 2,53 | 01-085-0797; 00-020-0548; 01-083-1366; 01-071-1062 |
| 68,4791 | 450,47 | 0,0720 | 1,37245 | 1,15 | |

Minerali identificati

| Ref. Code | Compound Name | Chemical Formula |
|-------------|--------------------------|--|
| 01-085-0797 | Quartz | Si O ₂ |
| 00-020-0548 | Albite, calcian, ordered | (Na , Ca) (Si , Al) ₄ O ₈ |
| 01-083-1366 | Biotite | K ₂ (Fe _{2.786} Mg _{2.321} Ti _{0.550}) (Al _{2.413} Si _{5.587} O ₂₀) (O H) ₄ |
| 01-071-1062 | Hornblende | K _{.3} Na _{.5} Ca _{1.7} Mg _{3.6} Fe _{1.1} Fe _{.5} Ti _{.2} Al _{1.9} Si _{6.4} O ₂₂ (O H) |
| 01-072-1114 | Microcline maximum | K Al Si ₃ O ₈ |