**3He Measurements 24/25.7.2023 MPI-P**

New samples (glass/Pyrex tubes) OD = 6 mm

NMR: 7T, 228.6 MHz, P90 = 15 µs @ 200W (match was not optimal!)

Bandwidth = 50 kHz

T1 determination with saturation recovery !

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| sample | 3He [bar ] | SrO2 [mg] | SNR\* | T1 [s] | observations |
| 1 | 0.7 | 8.62 | 10.9 | 0.69 ± 0.10 |  |
| 2 | 0.7 | 4.7 | 6.8 | 0.73± 0.13 |  |
| 3 | 0.7 | 1 | 9.1 | 1.34 ± 0.15 |  |
| 4 | 0.7 | 0 | -- | -- | **No signal** (RD = 500 s), 128 scans |
| 5 | 0.7 | Gd3+ | 3 per peak | 0.77 ± 0.10 | 2 narrow peaks, ca. same T1 |

\* for 32 scans