Simulated Nd-fractionation correction is shown together with measured data of Table S1: Nd(142/144)(Col (a)) vs. Nd(150/144)(Col(a))

$\beta 1 := \sqrt{\frac{144}{142}}$ $\beta 3 := \sqrt{\frac{150}{144}}$ $\beta N := \sqrt{\frac{146}{144}}$ $R1 := 1.141805$ $R3 := 4.22942$ $q := 1, 0.95 .. 0.1$

$qo := 0.2, 0.25 .. 1$

$qs := 0.99, 0.89 .. 0.19$

$p1 := \frac{\beta 1 - 1}{\beta 1}$ $pN := \frac{\beta N - 1}{\beta 1 \cdot \beta N}$ $p3 := \frac{\beta 3 - 1}{\beta 1 \cdot \beta 3}$ $E1 := \frac{\ln(\beta 1)}{\ln(\beta N)}$ $E3 := \frac{\ln(\beta 3)}{\ln(\beta N)}$ $Q := \frac{p1 - E1 \cdot pN}{p3 - E3 \cdot pN}$

$S1(q) := R1 \cdot q^{(p1 - E1 \cdot pN)}$ $S3(q) := R3 \cdot q^{(p3 - E3 \cdot pN)}$ $SR3(q) := \frac{1}{S3(q)}$

$SM1(qo) := \frac{1}{1 - qo} \cdot \int_{qo}^{1} S1(q)\, dq$

$SM3(qo) := \frac{1}{1 - qo} \cdot \int_{qo}^{1} S3(q)\, dq$

$pp1(qo) := \frac{SM1(qo) - R1}{R1} \cdot 10^6$ $pp3(qo) := \frac{SM3(qo) - R3}{R3} \cdot 10^6$

$q1a := SM1(0.999999)$ $q1e := SM1(0.2)$

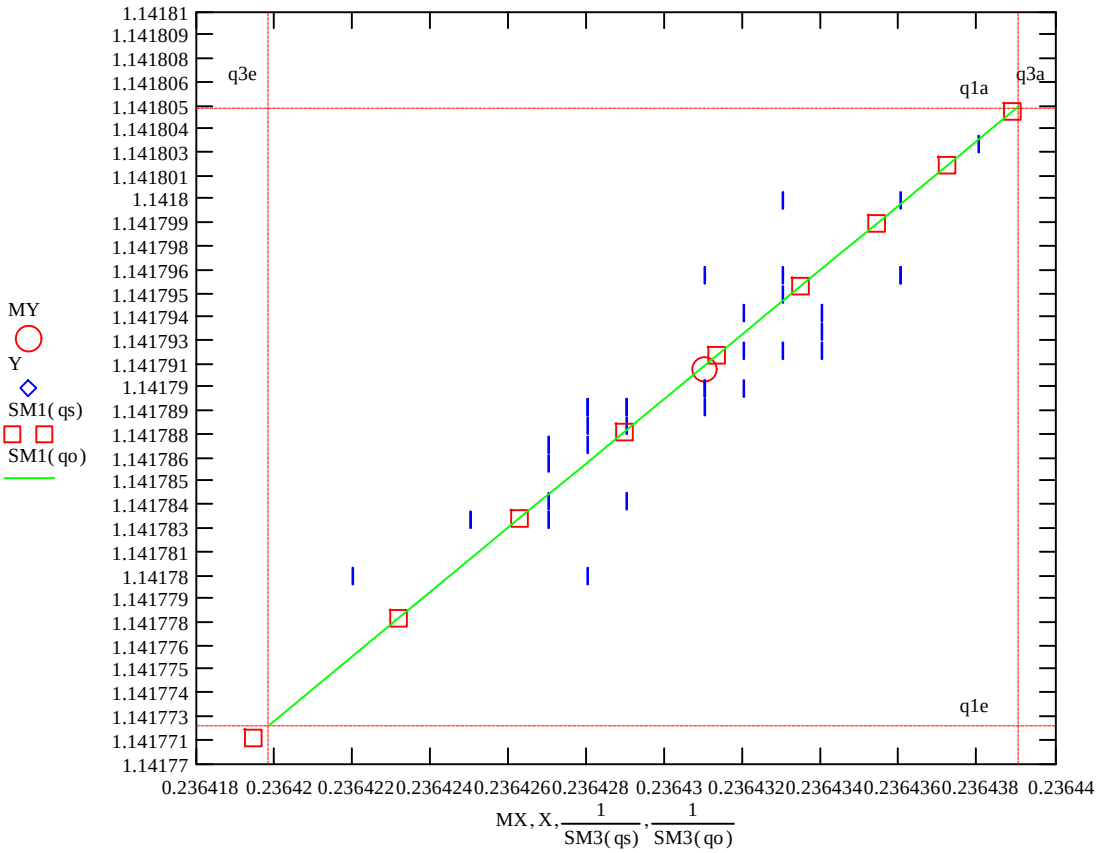
$q3a := \frac{1}{SM3(0.999999)}$ $q3e := \frac{1}{SM3(0.2)}$

$\frac{1}{R3} = 0.23644$ $R3 = 4.22942$

$SL1\_3 := \frac{q1a - q1e}{q3a - q3e}$ $SL1\_3 = 1.71611$

Y :=	X :=
1.141786	0.236427
1.141792	0.236433
1.141792	0.236434
1.141790	0.236432
1.141789	0.236429
1.141789	0.236429
1.141794	0.236434
1.141784	0.236427
1.141790	0.236431
1.141787	0.236427
1.141780	0.236422
1.141789	0.236431
1.141800	0.236433
1.141796	0.236433
1.141800	0.236436
1.141787	0.236428
1.141788	0.236429
1.141780	0.236428
1.141783	0.236427
1.141789	0.236428
1.141796	0.236431
1.141783	0.236425
1.141803	0.236438
1.141792	0.236432
1.141795	0.236433
1.141796	0.236436
1.141784	0.236429
1.141789	0.236428
1.141796	0.236436
1.141793	0.236434
1.141794	0.236432
1.141788	0.236428
1.141790	0.236431

$MX := 0.236431$ $MY := 1.141791$


MY
Y
SM1(qs)
SM1(qo)
q3e
q1a
q3a
q1e
1.14181
1.141809
1.141808
1.141806
1.141805
1.141804
1.141803
1.141801
1.1418
1.141799
1.141798
1.141796
1.141795
1.141794
1.141793
1.141791
1.14179
1.141789
1.141788
1.141786
1.141785
1.141784
1.141783
1.141781
1.14178
1.141779
1.141778
1.141776
1.141775
1.141774
1.141773
1.141771
1.14177
0.236418 0.23642 0.2364220.2364240.2364260.236428 0.23643 0.2364320.2364340.2364360.236438 0.23644
MX, X, 1/SM3(qs), 1/SM3(qo)