

Instrument Efficiency Calculator (Rev 2)

PROJECT NAME

Schofield

Initial Source

DPM	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	DPM on Date Efficiency Performed
18100	7.54E+04	8/13/2007	9.193E-06	13.26	18098

SOURCE

ISOTOPE	SOURCE ID #:	CREATION DATE:
230Th	1319-94	5/13/1994

μCi on Date

Source μCi	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	Efficiency Performed

Average
background
counts, cpm

0.2

Average Source
plus background
counts, cpm

6446.0

DPM Based
Calculated
Efficiency,
cpm/dpm

0.356

μCi Based
Calculated
Efficiency,
cpm/dpm

Background
Counts, cpm

0.35

Source plus
Background
Counts, cpm

6338.5

0.2

6484.5

0.15

6452

0.2

6431

0.4

6542.5

0.3

6415.5

0.05

6512.5

0.35

6455.5

0.3

6501

0.1

6326.5

Average

0.2

6446.0

For:

Instrument/Probe
Serial numbers

Ludlum 2929 w 43-10-1
137620/PR203054

By:

Name	Date Performed
AJC	8/13/2007