

Sample Description: Copper Sieve
4oz White Jar, 113 grams

Manufacturer: ???

Lot Number: ???

Sample ID: "Copper_Sieve"

Measurement Dates:

Start Acquisition: Oct 23, 2015, 18:35:39 GMT

Stop Acquisition: Oct 26, 2015, 07:15:17 GMT

Real Time: 253178.78 s

Live Time: 248831.75 s

Measurement Results (Calculated at Stop Acquisition Time):

Isotope		Activity (Bq)	1 sigma (Bq)
K-40	K-40	0.099	0.017
U-238 Chain	Ra-226	0.37	0.13
	Pb-214	0.117	0.006
	Bi-214	0.133	0.006
Th-232 Chain	Ac-228	0.041	0.005
	Pb-212	0.051	0.005
	Tl-208	0.016	0.002

Notes: Detection efficiencies are based on a liquid standard in a plastic jar (81mm inner diameter x 35 mm high).

Institution: Pacific Northwest National Laboratory

Technique: Gamma Spectroscopy

Instrument: CASCADES Germanium Array (12 crystals active)

Practitioner: Allan Myers (measurement), Martin Keillor (Analysis)

Analysis File: DailyProcessing_on_20151026_for_20151023_Copper_Sieve_21600_mek.melusine2

Data Reference: N/A

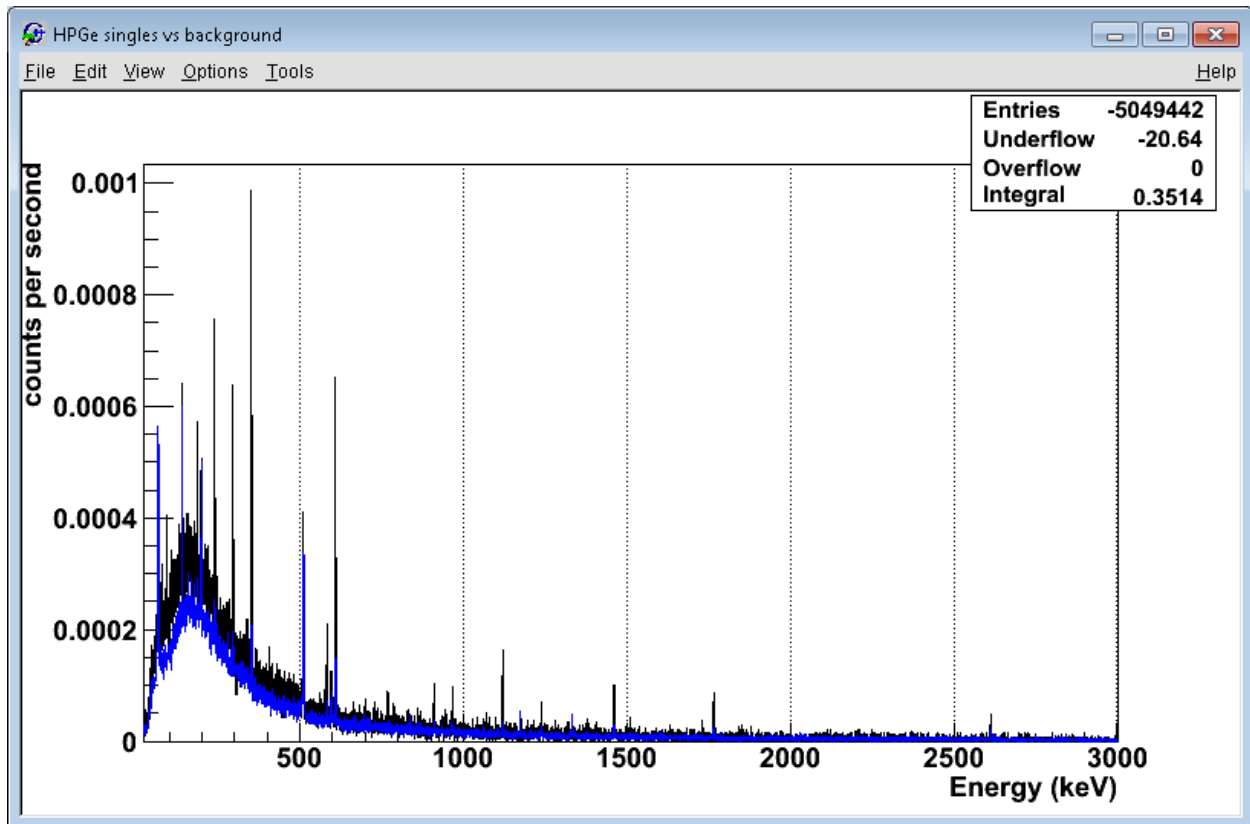


Figure 1. Spectrum. Blue trace is the system background.

Sample Description: Molecular Sieve
4oz White Jar, 106 grams

Manufacturer: ???

Lot Number: ???

Sample ID: "MOLY_Sieve"

Measurement Dates:

Start Acquisition: Oct 23, 2015, 02:39:42 GMT

Stop Acquisition: Oct 24, 2015, 01:15:16 GMT

Real Time: 81113.51 s

Live Time: 79607.37 s

Measurement Results (Calculated at Stop Acquisition Time):

Isotope		Activity (Bq)	1 sigma (Bq)
K-40	K-40	14.13	0.34
U-238 Chain	Ra-226	1.32	0.53
	Pb-214	0.676	0.024
	Bi-214	0.632	0.026
Th-232 Chain	Ac-228	0.49	0.03
	Ra-224	0.56	0.19
	Bi-212	0.50	0.16
	Pb-212	0.51	0.024
	Tl-208	0.183	0.013

Notes: Detection efficiencies was based on a liquid standard in a plastic jar (81mm inner diameter x 35 mm high).

Institution: Pacific Northwest National Laboratory

Technique: Gamma Spectroscopy

Instrument: CASCADES Germanium Array (12 crystals active)

Practitioner: Allan Myers (measurement), Martin Keillor (Analysis)

Analysis File: DailyProcessing_on_20151023_for_20151022_MOLY_Sieve_21600_mek.melusine2

Data Reference: N/A

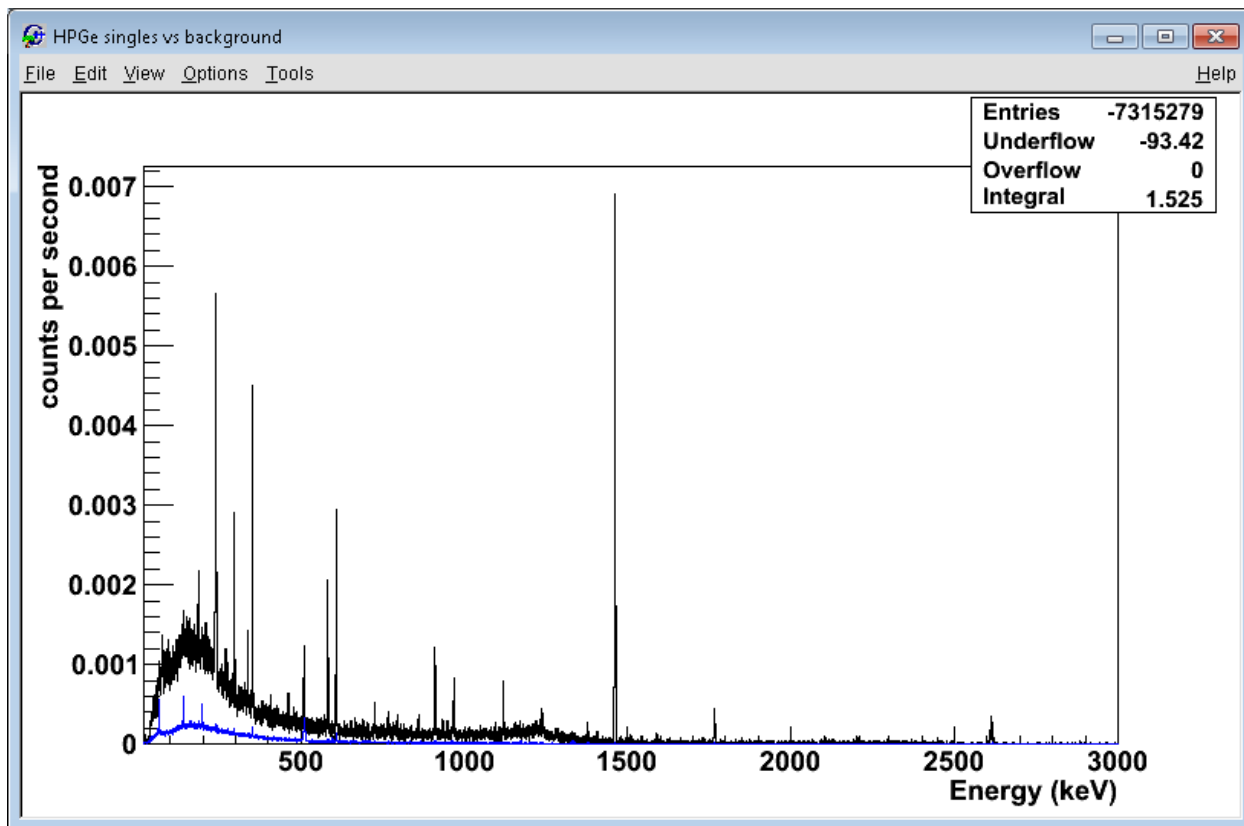


Figure 2. Spectrum. Blue trace is the system background.