

# U reference spectra from LNHB and LLNL

## *Part 1/2 : U reference spectra from LNHB*

### Reference spectra obtained from a HPGe coaxial detector

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File name : G-1613c	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1994
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-1613d	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1994
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-1613e	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1994
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-1614c	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1966
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-1614d	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1966
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-1614e	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s) : 1800/1966
Energy first channel (keV) : 0	Energy last channel (keV) : 214

File name : G-1541c	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1988
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-1541d	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1988
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-1541e	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1988
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-1542c	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1979
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-1542d	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1979
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-1542e	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1979
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-125Vc	Origin and date : CEA-DAMRI 1997
Sample : 125-V	Origin : IRMM
Declared enrichment : $93.156 \pm 0.023$	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/2011
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-125Vd	Origin and date : CEA-DAMRI 1997
Sample : 125-V	Origin : IRMM
Declared enrichment : $93.156 \pm 0.023$	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/2011
Energy first channel (keV) : 0	Energy last channel (keV) : 214

File name : G-125Ve	Origin and date : CEA-DAMRI 1997
Sample : 125-V	Origin : IRMM
Declared enrichment : $93.156 \pm 0.023$	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 1800/2011
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-r1C	Origin and date : CEA-DAMRI 1997
Sample : Geel 031	Origin : IRMM
Declared enrichment : $0.3166 \pm 0.0001$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 3600/3843
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-r2C	Origin and date : CEA-DAMRI 1997
Sample : Geel 071	Origin : IRMM
Declared enrichment : $0.7119 \pm 0.0003$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 3600/3858
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-r3C	Origin and date : CEA-DAMRI 1997
Sample : Geel 194	Origin : IRMM
Declared enrichment : $1.9420 \pm 0.0007$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 3600/3899
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-r4C	Origin and date : CEA-DAMRI 1997
Sample : Geel 295	Origin : IRMM
Declared enrichment : $2.9492 \pm 0.0011$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 3600/3940
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-r5C	Origin and date : CEA-DAMRI 1997
Sample : Geel 446	Origin : IRMM
Declared enrichment : $4.4623 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 3600/3988
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-X2c	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.648 )	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 1800/1940
Energy first channel (keV) : 0	Energy last channel (keV) : 214
File name : G-X2d	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.648 )	
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s): 1800/1940
Energy first channel (keV) : 0	Energy last channel (keV) : 214

File name : G-X2e	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.648 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1940
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-X2cc	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.669 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1948
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-X2dd	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.669 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1949
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-X2ee	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.669 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1951
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-Y2c	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.647 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1932
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-Y2d	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.647 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1932
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-Y2e	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.647 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1932
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : G-Y2cc	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.675 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1931
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-Y2dd	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.675 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1931
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : G-Y2ee	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.675 )
Detector : HP Ge coax	Crystal diameter (cm) : 5.2
FWHM at 185 keV (keV) : 1.0	Crystal thickness (cm) : 5.7
Number of channels : 4096	Live/real counting times (s):1800/1934
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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### **Reference spectra obtained from a HPGe planar detector**

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File name : X-1613c	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1863
Energy first channel(keV) : 0	Energy last channel(keV) : 214

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File name : X-1613d	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1863
Energy first channel(keV) : 0	Energy last channel(keV) : 214

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File name : X-1613e	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1863
Energy first channel(keV) : 0	Energy last channel(keV) : 214

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File name : X-1614c	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1854
Energy first channel(keV) : 0	Energy last channel(keV) : 214

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File name : X-1614d	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1854
Energy first channel(keV) : 0	Energy last channel(keV) : 214

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File name : X-1614e	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1854
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1541c	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1859
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1541d	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1859
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1541e	Origin and date : CEA-DAMRI 1997
Sample : 1541-1	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s) : 1800/1859
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1542c	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1861
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1542d	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1861
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-1542e	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times(s):1800/1861
Energy first channel(keV) : 0	Energy last channel(keV) : 214
File name : X-125Vc	Origin and date : CEA-DAMRI 1997
Sample : 125V	Origin : IRMM
Declared enrichment : $93.156 \pm 0.023$	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s) : 1800/2123
Energy first channel (keV) : 0	Energy last channel (keV) : 214

File name : X-125Vd	Origin and date : CEA-DAMRI 1997
Sample : 125V	Origin : IRMM
Declared enrichment : 93.156 ± 0.023	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 1800/2123
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-125Ve	Origin and date : CEA-DAMRI 1997
Sample : 125V	Origin : IRMM
Declared enrichment : 93.156 ± 0.023	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 1800/2123
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-r1c	Origin and date : CEA-DAMRI 1997
Sample : Geel 031	Origin : IRMM
Declared enrichment : 0.3166 ± 0.0001	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 3600/3691
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-r2c	Origin and date : CEA-DAMRI 1997
Sample : Geel 071	Origin : IRMM
Declared enrichment : 0.7119 ± 0.0003	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 3600/3697
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-r3c	Origin and date : CEA-DAMRI 1997
Sample : Geel 194	Origin : IRMM
Declared enrichment : 1.9420 ± 0.0007	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 3600/3719
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-r4c	Origin and date : CEA-DAMRI 1997
Sample : Geel 295	Origin : IRMM
Declared enrichment : 2.9492 ± 0.0011	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 3600/3736
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-r5c	Origin and date : CEA-DAMRI 1997
Sample : Geel 446	Origin : IRMM
Declared enrichment : 4.4623 ± 0.0016	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 3600/3772
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-X3c	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : 3.4317 ± 0.0016	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.639 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 1800/1848
Energy first channel (keV) : 0	Energy last channel (keV) : 214

File name : X-X3d	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.639 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1848
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-X3e	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.639 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1848
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-X3cc	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.665 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s): 1800/1849
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-X3dd	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.665 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1849
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-X3ee	Origin and date : CEA-DAMRI 1997
Sample : X-3	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.665 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1849
Energy first channel (keV) : 0	Energy last channel (keV) : 214
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File name : X-Y2c	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.645 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1843
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-Y2d	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.618 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1843
Energy first channel (keV) : 0	Energy last channel (keV) : 214
<hr/>	
File name : X-Y2e	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.618 )	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1843
Energy first channel (keV) : 0	Energy last channel (keV) : 214



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File name : X-Y2cc	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.668 )
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1844
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : X-Y2dd	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.668 )
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1844
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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File name : X-Y2ee	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder	sample ( Equilibrium factor: 0.668 )
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 2.0
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) : 1.0
Number of channels : 4096	Live/real counting times (s):1800/1844
Energy first channel (keV) : 0	Energy last channel (keV) : 214

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### **Reference spectra obtained from a CdZnTe detector**

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File name : C-1613	Origin and date : CEA-DAMRI 1997
Sample : 1613-2	Origin : IRMM
Declared enrichment : $3.1094 \pm 0.0022$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s):7200/7205
Energy first channel (keV) : 0	Energy last channel (keV) : 247

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File name : C-1614	Origin and date : CEA-DAMRI 1997
Sample : 1614-2	Origin : IRMM
Declared enrichment : $1.4972 \pm 0.0010$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s):7200/7204
Energy first channel (keV) : 0	Energy last channel (keV) : 247

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File name : C-1541	Origin and date : CEA-DAMRI 1997
Sample : 1541-2	Origin : IRMM
Declared enrichment : $1.9952 \pm 0.0019$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s):7200/7204
Energy first channel (keV) : 0	Energy last channel (keV) : 247

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File name : C-1542	Origin and date : CEA-DAMRI 1997
Sample : 1542	Origin : IRMM
Declared enrichment : $2.8774 \pm 0.0020$	Origin : IRMM (mass spec.)
Description : UO2 pellets	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s):7200/7204
Energy first channel (keV) : 0	Energy last channel (keV) : 247

File name : C-125	Origin and date : CEA-DAMRI 1997
Sample : 125-V	Origin : IRMM
Declared enrichment : $93.156 \pm 0.023$	Origin : IRMM (mass spec.)
Description : HEU metal sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 6063/6116
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-r1	Origin and date : CEA-DAMRI 1997
Sample : Geel 031	Origin : IRMM
Declared enrichment : $0.3166 \pm 0.0001$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7203
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-r2	Origin and date : CEA-DAMRI 1997
Sample : Geel 071	Origin : IRMM
Declared enrichment : $0.7119 \pm 0.0003$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7203
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-r3	Origin and date : CEA-DAMRI 1997
Sample : Geel 194	Origin : IRMM
Declared enrichment : $1.942 \pm 0.0007$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7204
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-r4	Origin and date : CEA-DAMRI 1997
Sample : Geel 295	Origin : IRMM
Declared enrichment : $2.9492 \pm 0.0011$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7205
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-r5	Origin and date : CEA-DAMRI 1997
Sample : Geel 446	Origin : IRMM
Declared enrichment : $4.4623 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : U308 IRMM reference sample	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7206
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-X2	Origin and date : CEA-DAMRI 1997
Sample : X-2	Origin : IRMM
Declared enrichment : $3.4317 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.665 )	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7204
Energy first channel (keV) : 0	Energy last channel (keV) : 247
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File name : C-Y2	Origin and date : CEA-DAMRI 1997
Sample : Y-2	Origin : IRMM
Declared enrichment : $2.6846 \pm 0.0016$	Origin : IRMM (mass spec.)
Description : Freshly converted UO2 powder sample ( Equilibrium factor: 0.655 )	
Detector : CZT	Crystal area (mm <sup>2</sup> ) : 9.0
FWHM at 185 keV (keV) : 2.2	Crystal thickness (mm) : 2.0
Number of channels : 4096	Live/real counting times (s): 7200/7203
Energy first channel (keV) : 0	Energy last channel (keV) : 247

## *Part 2/2 : U reference spectra from LLNL*

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File name : u0_017	Origin and date : LLNL
Sample : u0_017	Origin : LLNL
Declared enrichment : 0.0170	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):313700/314025
Energy first channel (keV) : 0	Energy last channel (keV) : 307

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File name : u0_483	Origin and date : LLNL
Sample : u0_483	Origin : LLNL
Declared enrichment : 0.483	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.65	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):5000/5062
Energy first channel (keV) : 0	Energy last channel (keV) : 307

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File name : GS0717	Origin and date : LLNL - 1997
Sample : GS0717	Origin : LLNL
Declared enrichment : 0.717	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):1883/2299
Energy first channel (keV) : 0	Energy last channel (keV) : 312

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File name : u0_991	Origin and date : LLNL
Sample : u0_991	Origin : LLNL
Declared enrichment : 0.991	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):3000/3040
Energy first channel (keV) : 0	Energy last channel (keV) : 307

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File name : 16141001	Origin and date : LLNL - 1997
Sample : 1614	Origin : IRMM
Declared enrichment : 1.4972 ± 0.0019	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5762/6311
Energy first channel (keV) : -9	Energy last channel (keV) : 319

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File name : 16141002	Origin and date : LLNL - 1997
Sample : 1614	Origin : IRMM
Declared enrichment : 1.4972 ± 0.0019	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5736/6282
Energy first channel (keV) : -9	Energy last channel (keV) : 319

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File name : 16141003	Origin and date : LLNL - 1997
Sample : 1614	Origin : IRMM
Declared enrichment : 1.4972 ± 0.0019	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5745/6293
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : S194001	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14082/15826
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194002	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14044/15783
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194003	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14045/15783
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194004	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14073/15815
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194005	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14069/15808
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194006	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14101/15841
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194007	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14125/15865
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S194008	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14108/15846
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : S194009	Origin and date : LLNL - 1997
Sample : S194	Origin : LLNL
Declared enrichment : 1.942	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):14121/15861
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : GS195	Origin and date : LLNL - 1997
Sample : GS195	Origin : LLNL
Declared enrichment : 1.950	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):1821/2288
Energy first channel (keV) : 0	Energy last channel (keV) : 312
File name : 15411001	Origin and date : LLNL - 1997
Sample : 1541	Origin : IRMM
Declared enrichment : 1.9952 ± 0.0037	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3205/3716
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 15411002	Origin and date : LLNL - 1997
Sample : 1541	Origin : IRMM
Declared enrichment : 1.9952 ± 0.0037	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3196/3705
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 15411003	Origin and date : LLNL - 1997
Sample : 1541	Origin : IRMM
Declared enrichment : 1.9952 ± 0.0037	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3208/3719
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 15411004	Origin and date : LLNL - 1997
Sample : 1541	Origin : IRMM
Declared enrichment : 1.9952 ± 0.0037	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):1416/1642
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : u2_013	Origin and date : LLNL
Sample : u2_013	Origin : LLNL
Declared enrichment : 2.013	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):3000/3007
Energy first channel (keV) : 0	Energy last channel (keV) : 307
File name : Y1-001	Origin and date : LLNL - 1997
Sample : Y1	Origin : IRMM
Declared enrichment : 2.6846 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample (Equilibrium factor:0.760)	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3563/4062
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : Y1-002	Origin and date : LLNL - 1997
Sample : Y1	Origin : IRMM
Declared enrichment : 2.6846 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample	(Equilibrium factor:0.760)
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3568/4068
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : Y1-003	Origin and date : LLNL - 1997
Sample : Y1	Origin : IRMM
Declared enrichment : 2.6846 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample	(Equilibrium factor:0.760)
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3477/3976
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-001	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5036/5530
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-002	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5038/5534
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-003	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5030/5525
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-004	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5017/5512
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-005	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5025/5521
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-006	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5035/5532
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : 1542-007	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5001/5495
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-008	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5032/5529
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-009	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5024/5519
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 1542-010	Origin and date : LLNL - 1997
Sample : 1542	Origin : IRMM
Declared enrichment : 2.8774 ± 0.0040	Origin : IRMM (mass spectro.)
Description : UO2 powder sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):5034/5530
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : G295001	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6766/7246
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : G295002	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6764/7245
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : G295003	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6748/7229
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : G295004	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6761/7243
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : G295005	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6764/7246
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : G295006	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6772/7253
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : G295007	Origin and date : LLNL - 1997
Sample : G295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6783/7265
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S295001	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17480/19353
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S295002	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17449/19320
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S295003	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17426/19296
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S295004	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17413/19284
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S295005	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17395/19268
Energy first channel (keV) : -9	Energy last channel (keV) : 319



File name : S295006	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17368/19240
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S295007	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17367/19239
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : S295008	Origin and date : LLNL - 1997
Sample : S295	Origin : LLNL
Declared enrichment : 2.949	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):17333/19201
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : u3_009	Origin and date : LLNL
Sample : u3_009	Origin : LLNL
Declared enrichment : 3.009	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):10000/10021
Energy first channel (keV) : 0	Energy last channel (keV) : 307
File name : 16131001	Origin and date : LLNL - 1997
Sample : 1613	Origin : IRMM
Declared enrichment : 3.1094 ± 0.0044	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3877/4472
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 16131002	Origin and date : LLNL - 1997
Sample : 1613	Origin : IRMM
Declared enrichment : 3.1094 ± 0.0044	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3933/4528
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : 16131003	Origin and date : LLNL - 1997
Sample : 1613	Origin : IRMM
Declared enrichment : 3.1094 ± 0.0044	Origin : IRMM (mass spectro.)
Description : UO2 pellet sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3935/4529
Energy first channel (keV) : -9	Energy last channel (keV) : 319
File name : X2-001	Origin and date : LLNL - 1997
Sample : X2	Origin : IRMM
Declared enrichment : 3.4317 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample (Equilibrium factor:0.750)	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):277/313
Energy first channel (keV) : -9	Energy last channel (keV) : 319

File name : X2-002	Origin and date : LLNL - 1997
Sample : X2	Origin : IRMM
Declared enrichment : 3.4317 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample	(Equilibrium factor:0.750)
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):3998/4525
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : X2-003	Origin and date : LLNL - 1997
Sample : X2	Origin : IRMM
Declared enrichment : 3.4317 ± 0.0016	Origin : IRMM (mass spectro)
Description : Freshly converted UO2 powder sample	(Equilibrium factor:0.750)
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):4003/4530
Energy first channel (keV) : -9	Energy last channel (keV) : 319
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File name : S446001	Origin and date : LLNL - 1997
Sample : GS446	Origin : LLNL
Declared enrichment : 4.460	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):18020/20079
Energy first channel (keV) : 0	Energy last channel (keV) : 312
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File name : S446002	Origin and date : LLNL - 1997
Sample : GS446	Origin : LLNL
Declared enrichment : 4.460	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):18067/20130
Energy first channel (keV) : 0	Energy last channel (keV) : 312
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File name : S446003	Origin and date : LLNL - 1997
Sample : GS446	Origin : LLNL
Declared enrichment : 4.460	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):18064/20126
Energy first channel (keV) : 0	Energy last channel (keV) : 312
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File name : S446004	Origin and date : LLNL - 1997
Sample : GS446	Origin : LLNL
Declared enrichment : 4.460	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):18059/20119
Energy first channel (keV) : 0	Energy last channel (keV) : 312
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File name : GS446	Origin and date : LLNL - 1997
Sample : GS446	Origin : LLNL
Declared enrichment : 4.460	Origin : LLNL
Description :	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):2032/2587
Energy first channel (keV) : 0	Energy last channel (keV) : 312
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File name : u4_949	Origin and date : LLNL
Sample : u4_949	Origin : LLNL
Declared enrichment : 4.949	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):4014/4022
Energy first channel (keV) : 0	Energy last channel (keV) : 307

File name : u10_075	Origin and date : LLNL
Sample : u10_075	Origin : LLNL
Declared enrichment : 10.079	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):30000/30084
Energy first channel (keV) : 0	Energy last channel (keV) : 307
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File name : u49_38	Origin and date : LLNL
Sample : u49_38	Origin : LLNL
Declared enrichment : 49.380	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):6137/6225
Energy first channel (keV) : 0	Energy last channel (keV) : 307
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File name : u75_13	Origin and date : LLNL
Sample : u75_13	Origin : LLNL
Declared enrichment : 75.130	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times (s):50000/50916
Energy first channel (keV) : 0	Energy last channel (keV) : 307
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File name : u93_076	Origin and date : LLNL
Sample : u93_076	Origin : LLNL
Declared enrichment : 93.076	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):1000/1135
Energy first channel (keV) : 0	Energy last channel (keV) : 307
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File name : 125v001	Origin and date : LLNL - 1997
Sample : 125v	Origin : IRMM
Declared enrichment : 93.156 ± 0.023	Origin : IRMM (mass spectro.)
Description : HEU metal sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):4499/5454
Energy first channel(keV) : -9	Energy last channel (keV) : 319
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File name : 125v003	Origin and date : LLNL - 1997
Sample : 125v	Origin : IRMM
Declared enrichment : 93.156 ± 0.023	Origin : IRMM (mass spectro.)
Description : HEU metal sample	
Detector : HP Ge plan	Crystal area (cm <sup>2</sup> ) : 8.0
FWHM at 185 keV (keV) : 0.61	Crystal thickness (cm) : 1.3
Number of channels : 4096	Live/real counting times(s):6131/7070
Energy first channel(keV) : -9	Energy of last channel (keV) :319
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File name : u93_17	Origin and date : LLNL- 1994
Sample : u93_17	Origin : LLNL
Declared enrichment : 93.170	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.60	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):50400/51053
Energy first channel (keV) : 0	Energy last channel (keV) : 307
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File name : u99_1LP	Origin and date : LLNL
Sample : u99_1LP	Origin : LLNL
Declared enrichment : 99.100	Origin : LLNL
Description :	
Detector :	Crystal area (cm <sup>2</sup> ) :
FWHM at 185 keV (keV) : 0.55	Crystal thickness (cm) :
Number of channels : 4096	Live/real counting times(s):300000/310683
Energy first channel (keV) : 0	Energy last channel (keV) : 307