

DATE 20 JUN 78  
BCMB 8074  
IDECK 14

\$ = INCOMPLETE SPECTRUM  
+ = PILL NR DID NOT MATCH  
X = B-TAGWORD DID NOT MATCH  
S = PEAK SHIFT GREATER THAN 5 CH  
H = HALFWIDTH GREATER THAN 3.00  
C = 1 MIN CH DIFF GE 3  
C = 10 MIN STD - (NA-MN)/NA FLUX .LE.0. OR .GT. .08  
C = 20 MIN STD - SM FLUX DIFF BETWEEN STDS .GT. 5.0  
C = LONG STD - SC FLUX DIFF BETWEEN STDS .GT. 5.0  
C = 80 MIN STD - TA FLUX DIFF BETWEEN STDS .GT. 5.0

| TAGWORD | PILL | ERROR | HALFWIDTH |
|---------|------|-------|-----------|
| 628166  | B    | H     | 11.39     |
| 628164  | A    | H     | 9.35      |
| 628172  | E    | H     | 9.31      |
| 628168  | C    | H     | 8.73      |
| 628170  | D    | H     | 9.21      |
| 628174  | F    | H     | 9.41      |
| 628176  | G    | H     | 9.45      |
| 628178  | H    | H     | 9.25      |
| 628180  | I    | H     | 9.22      |
| 628183  | J    | H     | 9.24      |

8074 B BACK BACKGROUND  
GAMMA SPECTRUM-B 628156

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS  
COUNT TIME = 78.444 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = .50 MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS

8074 B BACK BACKGROUND  
GAMMA SPECTRUM-B 628166

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 11.39 CHANNELS  
STD NUMBER 1 -628166 B SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .04 0/0 EOB = 0. MJD  
IRRADIATION TIME = .0 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.444 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0 MILS SPECTRUM BEGAN 0/0/0 PST

8074 A STD POT 956  
GAMMA SPECTRUM-B 628164

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS  
 COUNT TIME = 78.062 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.35CHANNELS

8074 A STD POT 956 D  
GAMMA SPECTRUM-B 628164

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.35CHANNELS

STD NUMBER 1 -628164 A SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .17 0/0 EOB = 0 MJD  
IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.062 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

| NUCLIDE | HALF LIFE<br>DAYS | GAMMA ENERGY<br>KEV | GAMMA INTENS.<br>0/0 | COUNTS<br>0/0 | CROSS SECTION<br>BARNs | GROSS COUNTS | BKGD APPR PEAK<br>CHAN | REAL PEAK<br>CHAN   | FLUX(N/MIN-CM2)   | CPM DECAY<br>CORR. | MULT     | ELEMENT                 | ELEMENT           |  |
|---------|-------------------|---------------------|----------------------|---------------|------------------------|--------------|------------------------|---|-------------------|--------------------|----------|-------------------------|-------------------|--|
|         |                   |                     |                      |               |                        |              |                        |   |                   |                    |          | ABUNDANCE               |                   |  |
| INCCH   | -0.               | *0000               | -0.                  | -0.           | -0.                    | 190943       | 54845                  | 385   | 388               | 1.324 +/- .011E 5  | 132374.0 | 1.00000                 | .001 +/- 1.062E 3 |  |
| COH     | -0.               | *2311               | -0.                  | -0.           | -0.                    | 38033        | 26388*0412             | 415   | 8.797 +/- .342E 2 | 879.7              | 1.00000  | 1.000 +/- .055E 0       |                   |  |
| FE      | -0.               | *0640               | -0.                  | -0.           | -0.                    | 3557         | 558*0105               | 106   | 2.228 +/- .053E 4 | 226.6              | 1.00000  | 1.017 +/- .034E -2 FE   |                   |  |
| CR      | -0.               | *0541               | -0.                  | -0.           | -0.                    | 321          | 325*9784               | 87  | 1.092 +/- .026E 4 | -.3                | 1.00000  | -.277 +/- 1.715E -4 CR  |                   |  |
|         |                   |                     |                      |               |                        |              | 5.45.                  | CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 9.35CHANNELS |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | COUNTS REMOVED FROM NEXT PEAK = 4 FE, ( .00120),            |                   |                    |          |                         |                   |  |
| MN      | -0.               | *0590               | -0.                  | -0.           | -0.                    | 451          | 402*9874               | 96  | 1.444 +/- .034E 4 | 3.4                | .00120   | 2.376 +/- 1.728E -4 MN  |                   |  |
|         |                   |                     |                      |               |                        |              |                        | FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 9.35CHANNELS |                   |                    |          |                         |                   |  |
| TI      | -0.               | *0451               | -0.                  | -0.           | -0.                    | 434          | 358*9604               | 69  | 2.005 +/- .048E 3 | 5.7                | 1.00000  | 2.864 +/- 1.548E -3 TI  |                   |  |
| CA      | -0.               | *0369               | -0.                  | -0.           | -0.                    | 395          | 409*9434               | 52  | 7.240 +/- .172E 2 | -1.1               | 1.00000  | -1.461 +/- 2.958E -3 CA |                   |  |
| V       | -0.               | *0495               | -0.                  | -0.           | -0.                    | 295          | 303*9704               | 79  | 4.901 +/- .116E 3 | -.6                | 1.00000  | -1.233 +/- 3.605E -4 V  |                   |  |
| ZN      | -0.               | *0863               | -0.                  | -0.           | -0.                    | 522          | 434*0394               | 150   | 8.911 +/- .212E 4 | 6.6                | 1.00000  | 7.460 +/- 4.408E -5 ZN  |                   |  |
| CU      | -0.               | *0805               | -0.                  | -0.           | -0.                    | 488          | 470*0284               | 139   | 6.460 +/- .154E 4 | 1.4                | 1.00000  | 2.105 +/- 5.970E -5 CU  |                   |  |
| PB      | -0.               | *1265               | -0.                  | -0.           | -0.                    | 634          | 902*8090               | 233   | 4.455 +/- .106E 4 | -20.2              | 1.00000  | -4.544 +/- 1.273E -4 PB |                   |  |
| RB      | -0.               | *1338               | -0.                  | -0.           | -0.                    | 1314         | 645*8210               | 244   | 7.220 +/- .715E 5 | 50.5               | 1.00000  | 7.000 +/- .981E -5 RB   |                   |  |
| SR      | -0.               | *1415               | -0.                  | -0.           | -0.                    | 2539         | 486*8340               | 258   | 1.070 +/- .034E 6 | 155.1              | 1.00000  | 1.450 +/- .064E -4 SR   |                   |  |
|         |                   |                     |                      |               |                        |              |                        | PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | SR PEAK IS SUMMED STARTING *66.00 CHANNELS HIGHER.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | COUNTS REMOVED FROM NEXT PEAK = 110 RB, ( .16500),          |                   |                    |          |                         |                   |  |
| Y       | -0.               | *1493               | -0.                  | -0.           | -0.                    | 1144         | 486*8520               | 276   | 1.497 +/- .047E 6 | 41.4               | .16500   | 2.763 +/- .272E -5 Y    |                   |  |
|         |                   |                     |                      |               |                        |              |                        | PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | Y PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER.           |                   |                    |          |                         |                   |  |
| ZR      | -0.               | *1575               | -0.                  | -0.           | -0.                    | 339          | SR, ( .16500),         | 0   | PB, ( .05500),    | 442.1              | .16500   | 2.520 +/- .067E -4 ZR   |                   |  |
|         |                   |                     |                      |               |                        |              |                        | COUNTS REMOVED FRCM NEXT PEAK = 339 SR, ( .16500),          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | ZR PEAK IS SUMMED STARTING *34.00 CHANNELS HIGHER.          |                   |                    |          |                         |                   |  |
| NB      | -0.               | *1659               | -0.                  | -0.           | -0.                    | 83           | Y, ( .15200),          | 0   | PB, ( .05500),    | 51.7               | .15200   | 2.103 +/- .204E -5 NB   |                   |  |
|         |                   |                     |                      |               |                        |              |                        | COUNTS REMOVED FROM NEXT PEAK = 83 Y, ( .15200),            |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | NB PEAK IS SUMMED STARTING *15.60 CHANNELS HIGHER.          |                   |                    |          |                         |                   |  |
| MO      | -0.               | *1744               | -0.                  | -0.           | -0.                    | 2480         | 1632*9050              | 330   | 3.509 +/- .066E 6 | -6.2               | .15900   | -1.776 +/- 2.469E -6 MO |                   |  |
|         |                   |                     |                      |               |                        |              |                        | PEAK IS AT CHANNEL 419.19 WITH HALFWIDTH OF 10.68.          |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | MO PEAK IS SUMMED STARTING *95.00 CHANNELS HIGHER.          |                   |                    |          |                         |                   |  |
| NI      | -0.               | *0747               | -0.                  | -0.           | -0.                    | 348          | 232*0200               | 128   | 3.005 +/- .071E 4 | 8.8                | 1.00000  | 2.916 +/- .901E -4 NI   |                   |  |
|         |                   |                     |                      |               |                        |              |                        | FE PEAK IS AT CHANNEL 106.29 WITH HALFWIDTH OF 9.35CHANNELS |                   |                    |          |                         |                   |  |
| K       | -0.               | *0331               | -0.                  | -0.           | -0.                    | 423          | 453*9365               | 45  | 2.228 +/- .053E 4 | -2.3               | 1.00000  | -1.017 +/- 1.643E -4 K  |                   |  |
|         |                   |                     |                      |               |                        |              |                        | K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.           |                   |                    |          |                         |                   |  |
|         |                   |                     |                      |               |                        |              |                        | COUNT RATE CORRECTION FOR LAST ELEMENT = I                  |                   |                    |          |                         |                   |  |

8074 E STD POT 845 C  
GAMMA SPECTRUM-B 628172

WEIGHT OF STD = 100.00000 MG EOB = 0. MJD IRRADIATION TIME = 0. MIN DECAY TIME = 0. DAYS  
 COUNT TIME = 78.664 MIN C/SEC BEG. = 0 C/SEC END = 0 START TIME = -0. MJD

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.31 CHANNELS

8074 E STD POT 845 0  
GAMMA SPECTRUM-B 628172

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.31CHANNELS  
STD NUMBER 2 -628172 E SAMPLE WEIGHT = 100.00000 MG DEAD TIME = .28 O/O EOB = 0. MJD  
IRRADIATION TIME = . MIN DECAY TIME = .50 DAYS COUNT TIME = 78.664 MIN C/SEC BEG. = 0 C/SEC END =  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 C PLAST THICK PLASTIC  
GAMMA SPECTRUM-B 628158

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 8.73CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .22 O/O EOB = 0. MJD  
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 79.166 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

| NUCLIDE                                    | COUNTS REMOVED FROM PEAK                                   |  |      |        | GROSS  | BKGD | APPR   | REAL   | I           | FLUX(N/MIN-CM <sup>2</sup> ) | CPM      | ELEMENT          | ELEMENT      |
|--|--|--|------|--------|--|------|--------|--------|-------------|------------------------------|----------|------------------|--------------|
|  | COUNTS   | EL   | MULT | COUNTS | EL   | MULT | COUNTS | COUNTS | PEAK        | PEAK                         | X        | EOB              | ABUNDANCE    |
| INCOH                                      |  |  |      | 433979 | 79980  | 385  | 388    |        | 1.691       | +/- .008E 5                  | 350275.0 | .002             | +/- 2.767E 3 |
| COH  |  |  |      | 39197  | 30721*0412   | 415  |        | 9.978  | +/- .200E 2 | 242.0                        | .243     | +/- .014E -0     |              |
| FE   |  |  |      | 707    | 666*0105   | 103  |        | 2.453  | +/- .033E 4 | 1.2                          | 4.772    | +/- 4.940E -5 FE |              |
| CR   |  |  |      | 408    | 399*9784   | 83   |        | 1.202  | +/- .016E 4 | .3                           | 2.138    | +/- 6.540E -5 CR |              |
|  | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF 0 FE .00120 | 1 CR .11000  |      | 1.31.  | CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER. |      |        |        |             |                              |          |                  |              |
| MN   | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 441    | 456*9874   | 93   |        | 1.589  | +/- .021E 4 | -5                           | -2.881   | +/- 6.115E -5 MN |              |
| TI   | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 1.31.  | MN PEAK IS SUMMED STARTING -12.60 CHANNELS HIGHER. |      |        |        |             |                              |          |                  |              |
| CA   | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 500    | 563*9604   | 66   |        | 2.207  | +/- .030E 3 | -1.8                         | -8.148   | +/- 6.469E -4 TI |              |
| V  | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 612    | 632*9434   | 49   |        | 7.971  | +/- .107E 2 | -.6                          | -.716    | +/- 1.263E -3 CA |              |
| ZN   | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 1.31.  | CA PEAK IS SUMMED STARTING -56.60 CHANNELS HIGHER. |      |        |        |             |                              |          |                  |              |
| CU   | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 436    | 409*9704   | 75   |        | 5.396  | +/- .072E 3 | .8                           | 1.429    | +/- 1.475E -4 V  |              |
| PB   | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | PB PEAK IS SUMMED STARTING *91.00 CHANNELS HIGHER. |      | 1.31.  | V PEAK IS SUMMED STARTING -29.60 CHANNELS HIGHER.  |      |        |        |             |                              |          |                  |              |
| RB   | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | RB PEAK IS SUMMED STARTING *79.00 CHANNELS HIGHER. |      | 631    | 609*8210   | 244  |        | 6.968  | +/- .424E 5 | .6                           | .901     | +/- 2.403E -6 RB |              |
| SR   | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | SR PEAK IS SUMMED STARTING #66.00 CHANNELS HIGHER. |      | 1.31.  | CU PEAK IS SUMMED STARTING 28.40 CHANNELS HIGHER.  |      |        |        |             |                              |          |                  |              |
| Y  | 4 RB .16500  | 0 0.   |      | 748    | 717*8520   | 276  |        | 1.506  | +/- .028E 6 | .8                           | .519     | +/- 1.005E -6 Y  |              |
| ZR   | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | ZR PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER. |      | 1.31.  | Y PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER.  |      |        |        |             |                              |          |                  |              |
| NB   | 4 SR .16500  | 5 PB .05500  |      | 1083   | 995*8660   | 292  |        | 1.727  | +/- .020E 6 | 2.3                          | 1.305    | +/- 1.188E -6 ZR |              |
| MO   | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | MO PEAK IS SUMMED STARTING -95.00 CHANNELS HIGHER. |      | 1.31.  | ZR PEAK IS SUMMED STARTING *34.00 CHANNELS HIGHER. |      |        |        |             |                              |          |                  |              |
| NI   | 4 Y .15200   | 0 0.   |      | 994    | 955*8844   | 308  |        | 2.418  | +/- .027E 6 | 1.0                          | 4.113    | +/- 8.125E -7 NB |              |
| K  | PEAK IS AT CHANNEL 418.62 WITH HALFWIDTH OF 10.92.         | K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.  |      | 1.31.  | NB PEAK IS SUMMED STARTING *15.60 CHANNELS HIGHER. |      |        |        |             |                              |          |                  |              |
|  | 13 ZR .15900   | 0 0.   |      | 1912   | 2429*9050  | 330  |        | 3.454  | +/- .039E 6 | -15.1                        | -4.377   | +/- 1.087E -6 MO |              |
| COUNT RATE CORRECTION FOR LAST ELEMENT = I |  |  |      | 256    | 272*0200   | 124  |        | 3.309  | +/- .044E 4 | -.5                          | -1.381   | +/- 3.163E -5 NI |              |
|  | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 1.31.  | NI PEAK IS SUMMED STARTING 20.00 CHANNELS HIGHER.  |      |        |        |             |                              |          |                  |              |
|  | FE PEAK IS AT CHANNEL 102.91 WITH HALFWIDTH OF             |  |      | 590    | 604*9365   | 42   |        | 2.453  | +/- .033E 4 | -.4                          | -1.630   | +/- 6.521E -5 K  |              |

8074 D LYLN-1 1956 W  
GAMMA SPECTRUM-B 628170

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.21 CHANNELS

THE IN (23.11KEV) PEAK HAS A HALF WIDTH OF .25 CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .22 0/0 EOB = 0. MJD  
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.584 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 F BUR-55 845  
GAMMA SPECTRUM-B 628174

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.41CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -.0. MG DEAD TIME = .21 O/O EOB = 0. MJD  
IRRADIATION TIME = .0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.096 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -.0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 G BUR-56 845 T  
GAMMA SPECTRUM-B 628176

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.45 CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .18 0/0 EOB = 0. MJD  
 IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 78.475 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

| NUCLIDE | COUNTS REMOVED FROM PEAK                                   |  |      |        | GROSS         | BKGD   | APPR   | REAL      | I         | FLUX(N/MIN-CM2) | CPM       | ELEMENT  | ELEMENT          |                  |                  |
|---------|--|--|------|--------|---------------|--|--------|-----------|-----------|-----------------|-----------|----------|------------------|------------------|------------------|
|         | COUNTS   | EL   | MULT | COUNTS | EL            | MULT   | COUNTS | COUNTS    | PEAK      | PEAK            | X         | EOB      | ABUNDANCE        |                  |                  |
| INCOH   |  |  |      |        | 196535        | 50299  | 385    | 388       | 1.691     | +/- .008E       | 5         | 142512.0 | .008             | +/- 8.628E 2     |                  |
| CCH     |  |  |      |        | 41281         | 26178*0412   | 412    | 415       | 9.978     | +/- .200E       | 2         | 1059.8   | 1.062            | +/- .039E 0      |                  |
| FE      |  |  |      |        | 3769          | 424*0105   | 105    | 106       | 2.453     | +/- .033E       | 4         | 234.7    | 9.570            | +/- .240E -3 FE  |                  |
| CR      |  |  |      |        | 271           | 263*9784   | 86     | 86        | 1.202     | +/- .016E       | 4         | .6       | .467             | +/- 1.309E -4 CR |                  |
| MN      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF 4 FE .00120 | 1 CR .11000  |      |        | 5.04.         | CR PEAK IS SUMMED STARTING -21.60 CHANNELS HIGHER. |        |           |           |                 |           |          |                  |                  |                  |
| TI      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             |  |      |        | 494           | 299*9874   | 96     | 1.589     | +/- .021E | 4               | 13.3      | 8.393    | +/- 1.382E -4 MN |                  |                  |
| CA      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             |  |      |        | 385           | 360*9604   | 69     | 2.207     | +/- .030E | 3               | 1.8       | .795     | +/- 1.298E -3 TI |                  |                  |
| V       | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             |  |      |        | 439           | 391*9434   | 52     | 7.971     | +/- .107E | 2               | 3.4       | 4.225    | +/- 2.539E -3 CA |                  |                  |
| ZN      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             |  |      |        | 5.04.         | CA PEAK IS SUMMED STARTING -56.60 CHANNELS HIGHER. |        |           |           |                 |           |          |                  |                  |                  |
| CU      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             |  |      |        | 486           | 428*0394   | 150    | 9.811     | +/- .131E | 4               | 4.1       | 4.148    | +/- 3.666E -5 ZN |                  |                  |
| PB      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | PB PEAK IS SUMMED STARTING *91.00 CHANNELS HIGHER. |      |        | 5.04.         | ZN PEAK IS SUMMED STARTING 39.40 CHANNELS HIGHER.  |        |           |           |                 |           |          |                  |                  |                  |
| RB      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | PB PEAK IS SUMMED STARTING *79.00 CHANNELS HIGHER. |      |        | 665           | 1403*8090  | 233    | 4.905     | +/- .066E | 4               | -51.8     | -1.056   | +/- .132E -3 PB  |                  |                  |
| SR      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | SR PEAK IS SUMMED STARTING *66.00 CHANNELS HIGHER. |      |        | 2217          | 788*8210   | 244    | 6.968     | +/- .424E | 5               | 100.3     | 1.439    | +/- .117E -4 RB  |                  |                  |
| Y       | 236 RB .16500  | 0 0.   |      |        | 1492          | 412*8520   | 276    | 1.506     | +/- .028E | 6               | 59.2      | 3.933    | +/- .258E -5 Y   |                  |                  |
| ZR      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | ZR PEAK IS SUMMED STARTING *48.00 CHANNELS HIGHER. |      |        | 247 SR .16500 | 0 PB .05500  | 3870   | 574*8660  | 292       | 1.727           | +/- .020E | 6        | 214.0            | 1.239            | +/- .036E -4 ZR  |
| NB      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | NB PEAK IS SUMMED STARTING *15.60 CHANNELS HIGHER. |      |        | 128 Y .15200  | 0 0.   | 1122   | 550*8844  | 309       | 2.418           | +/- .027E | 6        | 31.1             | 1.288            | +/- .168E -5 NB  |
| MO      | PEAK IS AT CHANNEL 419.24 WITH HALFWIDTH OF 10.77.         | MO PEAK IS SUMMED STARTING -95.00 CHANNELS HIGHER. |      |        | 485 ZR .15900 | 0 0.   | 1918   | 1807*9050 | 330       | 3.454           | +/- .039E | 6        | -26.2            | -7.595           | +/- 2.368E -6 MO |
| NI      | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             | NI PEAK IS SUMMED STARTING 20.00 CHANNELS HIGHER.  |      |        | 5.04.         | NI PEAK IS SUMMED STARTING 20.00 CHANNELS HIGHER.  |        |           |           |                 |           |          |                  |                  |                  |
| K       | FE PEAK IS AT CHANNEL 106.10 WITH HALFWIDTH OF             | K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.  |      |        | 417           | 360*9365   | 45     | 2.453     | +/- .033E | 4               | 4.0       | 1.631    | +/- 1.257E -4 K  |                  |                  |
|         | COUNT RATE CORRECTION FOR LAST ELEMENT =                   | I  |      |        | 5.04.         | K PEAK IS SUMMED STARTING -63.50 CHANNELS HIGHER.  |        |           |           |                 |           |          |                  |                  |                  |

8074 H BUR-57 845 U  
GAMMA SPECTRUM-B 628178

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.25CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .15 O/O EOB = 0. MJD  
 IRRADIATION TIME = .50 MIN DECAY TIME = .50 DAYS COUNT TIME = 79.455 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/0/0 PST

8074 I BUR-58 845 V  
GAMMA SPECTRUM-B 628180

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.22CHANNELS  
 STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .13 O/O EOB = 0. MJD  
 IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.847 MIN C/SEC BEG. = 0 C/SEC END = 0  
 START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

8074 J BUR-59 845 W  
GAMMA SPECTRUM-B 628183

THE IN (23.11KEV) PEAK HAS A HALFWIDTH OF 9.24CHANNELS  
STD NUMBER 1 2 -628172 E SAMPLE WEIGHT = -0. MG DEAD TIME = .25 O/O EOB = 0. MJD  
IRRADIATION TIME = 0. MIN DECAY TIME = .50 DAYS COUNT TIME = 78.438 MIN C/SEC BEG. = 0 C/SEC END = 0  
START TIME = .50 MJD PILL THICKNESS = -0. MILS SPECTRUM BEGAN 0/ 0/ 0 PST

| NUCLIDE | COUNTS REMOVED FROM PEAK                       |        |                             |        |                            |        | GROSS COUNTS     | BKGD COUNTS | APPR PEAK | REAL PEAK | I X    | FLUX(N/MIN-CM2) |           | CPM EOB    | ELEMENT    | ELEMENT |           |  |
|---------|--|--------|-----------------------------|--------|----------------------------|--------|------------------|-------------|-----------|-----------|--------|-----------------|-----------|------------|------------|---------|-----------|--|
|         | COUNTS   | EL     | MULT                        | COUNTS | EL                         | MULT   |                  |             |           |           |        |                 |           |            |            |         |           |  |
| INCOH   |  |        |                             | 265921 | 69953                      | 385    | 388              |             | 1.691     | +/- .008E | 5      | 192244.0        | .001      | +/- 1.373E | 3          |         | ABUNDANCE |  |
| COH     |  |        |                             | 55420  | 34508*0412                 | 415    |                  | 9.978       | +/- .200E | 2         | 1087.8 | 1.090           | +/- .035E | 0          |            |         |           |  |
| FE      |  |        |                             | 5258   | 553*0105                   | 106    |                  | 2.453       | +/- .033E | 4         | 244.7  | 9.979           | +/- .223E | -3         | FE         |         |           |  |
| CR      |  |        |                             | 345    | 333*9784                   | 86     |                  | 1.202       | +/- .016E | 4         |        | .6              | .519      | +/- 1.094E | -4         | CR      |           |  |
| MN      | FE PEAK IS AT CHANNEL<br>6 FE                  | 106.08 | WITH HALFWIDTH OF<br>.J0120 | 5.43.  | CR PEAK IS SUMMED STARTING | -21.60 | CHANNELS HIGHER. |             |           |           |        |                 | 9.5       | 5.958      | +/- 1.133E | -4      | MN        |  |
| TI      | FE PEAK IS AT CHANNEL<br>1 CR                  | 106.08 | WITH HALFWIDTH OF<br>.11000 | 574    | 385*9874                   | 96     |                  | 1.589       | +/- .021E | 4         |        |                 |           |            |            |         |           |  |
| CA      | FE PEAK IS AT CHANNEL<br>V                     | 106.08 | WITH HALFWIDTH OF           | 5.43.  | MN PEAK IS SUMMED STARTING | -12.60 | CHANNELS HIGHER. |             |           |           |        |                 | 3.0       | 1.367      | +/- .992E  | -3      | TI        |  |
| ZN      | FE PEAK IS AT CHANNEL<br>ZN                    | 106.08 | WITH HALFWIDTH OF           | 443    | 385*9604                   | 69     |                  | 2.207       | +/- .030E | 3         |        |                 |           |            |            |         |           |  |
| CU      | FE PEAK IS AT CHANNEL<br>PEAK IS AT CHANNEL    | 106.08 | WITH HALFWIDTH OF<br>419.11 | 5.43.  | TI PEAK IS SUMMED STARTING | -39.60 | CHANNELS HIGHER. |             |           |           |        |                 | 2.7       | 3.328      | +/- 2.042E | -3      | CA        |  |
| PB      | FE PEAK IS AT CHANNEL<br>PEAK IS AT CHANNEL    | 106.08 | WITH HALFWIDTH OF<br>419.11 | 5.43.  | CA PEAK IS SUMMED STARTING | -56.60 | CHANNELS HIGHER. |             |           |           |        |                 |           |            |            |         |           |  |
| RB      | PEAK IS AT CHANNEL<br>PEAK IS AT CHANNEL       | 419.11 | WITH HALFWIDTH OF<br>11.23. | 593    | 458*0394                   | 150    |                  | 7.971       | +/- .107E | 2         |        |                 |           |            |            |         |           |  |
| SR      | PEAK IS AT CHANNEL<br>335 RB                   | 419.11 | WITH HALFWIDTH OF<br>.16500 | 5.43.  | ZN PEAK IS SUMMED STARTING | 39.40  | CHANNELS HIGHER. |             |           |           |        |                 |           |            |            |         |           |  |
| Y       | PEAK IS AT CHANNEL<br>PEAK IS AT CHANNEL       | 419.11 | WITH HALFWIDTH OF<br>.0     | 3076   | 1045*8210                  | 244    |                  | 9.811       | +/- .131E | 4         |        |                 | 7.0       | 7.158      | +/- 2.849E | -5      | ZN        |  |
| ZR      | 338 SR   | 419.11 | WITH HALFWIDTH OF<br>.16500 | 5.43.  | PB PEAK IS SUMMED STARTING | *91.00 | CHANNELS HIGHER. |             |           |           |        |                 |           |            |            |         |           |  |
| NB      | PEAK IS AT CHANNEL<br>180 Y                    | 419.11 | WITH HALFWIDTH OF<br>.15200 | 3076   | 1045*8210                  | 244    |                  | 6.968       | +/- .424E | 5         |        |                 | 105.6     | 1.516      | +/- .114E  | -4      | RB        |  |
| MO      | PEAK IS AT CHANNEL<br>660 ZR                   | 419.11 | WITH HALFWIDTH OF<br>.15900 | 5.43.  | RB PEAK IS SUMMED STARTING | *79.00 | CHANNELS HIGHER. |             |           |           |        |                 |           |            |            |         |           |  |
| NI      | PEAK IS AT CHANNEL<br>FE PEAK IS AT CHANNEL    | 419.11 | WITH HALFWIDTH OF<br>106.08 | 2617   | 566*8340                   | 258    |                  | 1.076       | +/- .020E | 6         |        |                 | 106.7     | 9.916      | +/- .369E  | -5      | SR        |  |
| K       | FE PEAK IS AT CHANNEL<br>FE PEAK IS AT CHANNEL | 419.11 | WITH HALFWIDTH OF<br>106.08 | 5.43.  | SR PEAK IS SUMMED STARTING | *66.00 | CHANNELS HIGHER. |             |           |           |        |                 |           |            |            |         |           |  |
|         | COUNT RATE CORRECTION FOR LAST ELEMENT =       |        | I                           | 558    | 499*9365                   | 45     |                  | 1.506       | +/- .028E | 6         |        |                 | 61.5      | 4.085      | +/- .229E  | -5      | Y         |  |

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INCOH 100000 385 17 -25 30 1.0 0

COH 102311 200412 9 -8 12 1.0

FE FE 100640 200105 29 -16 9 1 1.017 -2

CR CR 100541 2099784 3 -5 5 1 30. .49

MN MN 100590 2099874 39 -6 6 1 30. .648  
0012 2 3

4 .11 16 200

11 19992 2007 0 6 1 26 0225

5 1 26 22

10 20 40

ZN ZN 200000 240000 250000 260000

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PB PB 101265 1030090 0 0 0 0 0

RB RB 101958 1090220 0 0

SR SR 101415 109854 57 2 100 1/

.165 112

ZR ZR 101515 1098000 70 1 .165 213

NB NB 101659 1098844 -86 -1 1.4 11 4 150. 1.4

MD MD 101744 1099050 12 -9 13 150. 2.0

NI NI 100747 2100200 5 -1 4 1 30. 1.349

K K 100331 2099365 17 -4 6 30.00 1.0

628166 517 100. 0.5 3

8074 B BACK BACKGROUND  
628164 517 100. 3

8074 A SID PDI 956 D  
628172 517 100. 3

8074 E STD PDI 845 C

628168 5 17 5  
8074 C PLAST THICK PLASTIC

628170 3

8074 U LYLN-1 (1958 W)

628174 3  
8074 E PUB-55 845 S

628176 3

8074 G BUR-56 845 1

8074 H BUR-57 845 U

628180  
8074 I BUR-58 845 V

3

628183  
8074 J BUR-59 845 W

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