EXPERIMENT

Spectrum Name:
Description:
Student ID:
Detector:
Comments:
Start Time: February 07, 2023, 11:31:51
End Time: February 07, 2023, 11:33:40

SET UP

Acquisition Mode: PHA Direct In	High Voltage: 0
Conversion Gain: 1024 Coarse Gain: 1	Fine Gain: 1.00
Upper Discriminator: 1048 Channels	Lower Discriminator: 14 Channels
Live Time: 107.38 Real Time: 109.1	Percent Dead: 1.57

REGIONS OF INTEREST: Not Calibrated

ROI Start	ROI End	Gross	Net	Centroid	FWHM
702	709	8800	7819	704	3
795	804	7538	7022	801	3
876	882	69	50	879	4

```
0: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
10: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 104 |
20: 173 | 237 | 249 | 321 | 339 | 395 | 329 | 339 | 309 | 254 |
30: 274 | 229 | 234 | 226 | 239 | 247 | 262 | 279 | 216 | 300 |
40: 254 | 265 | 284 | 269 | 260 | 254 | 219 | 234 | 268 | 269 |
50: 275 | 286 | 266 | 259 | 266 | 243 | 281 | 250 | 236 | 257 |
60: 260 | 238 | 279 | 236 | 257 | 252 | 231 | 233 | 263 | 233 |
70: 244 | 253 | 264 | 270 | 263 | 248 | 243 | 229 | 226 | 220 |
80: 235 | 231 | 220 | 232 | 218 | 291 | 238 | 251 | 197 | 197 |
90: 238 | 250 | 237 | 202 | 253 | 233 | 199 | 213 | 200 | 216 |
100: 216 | 211 | 218 | 207 | 225 | 241 | 217 | 213 | 217 | 208 |
110: 210 | 231 | 235 | 230 | 175 | 228 | 210 | 206 | 211 | 206 |
120: 232 | 231 | 231 | 210 | 242 | 227 | 241 | 211 | 213 | 217 |
130: 227 | 254 | 225 | 250 | 232 | 240 | 233 | 246 | 256 | 235 |
140: 213 | 251 | 242 | 198 | 238 | 204 | 230 | 237 | 220 | 209 |
150: 214 | 254 | 222 | 209 | 196 | 223 | 184 | 216 | 176 | 206 |
160: 210 | 191 | 204 | 201 | 185 | 206 | 192 | 217 | 189 | 186 |
170: 212 | 212 | 192 | 182 | 214 | 183 | 179 | 176 | 159 | 167 |
180: 215 | 190 | 211 | 148 | 166 | 178 | 200 | 168 | 169 | 169 |
190: 161 | 165 | 168 | 187 | 160 | 173 | 177 | 159 | 174 | 158 |
200: 170 | 163 | 172 | 147 | 160 | 166 | 162 | 178 | 149 | 149 |
210: 163 | 158 | 151 | 148 | 159 | 138 | 157 | 145 | 165 | 134 |
220: 143 | 173 | 158 | 135 | 158 | 144 | 163 | 166 | 158 | 142 |
230: 138 | 141 | 133 | 150 | 163 | 163 | 148 | 144 | 136 | 155 |
240: 156 | 134 | 146 | 145 | 158 | 163 | 131 | 134 | 133 | 137 |
250: 146 | 137 | 140 | 148 | 147 | 120 | 136 | 145 | 133 | 147 |
260: 140 | 135 | 137 | 144 | 143 | 121 | 125 | 132 | 147 | 157 |
270: 122 | 135 | 130 | 144 | 136 | 143 | 146 | 118 | 135 | 131 |
280: 145 | 141 | 127 | 150 | 108 | 123 | 120 | 137 | 135 | 138 |
290: 125 | 150 | 137 | 121 | 142 | 111 | 142 | 141 | 127 | 144 |
300: 135 | 152 | 151 | 130 | 154 | 138 | 131 | 128 | 128 | 126 |
310: 125 | 151 | 143 | 136 | 129 | 147 | 138 | 105 | 152 | 130 |
320: 146 | 145 | 129 | 128 | 136 | 149 | 147 | 137 | 148 | 149 |
330: 130 | 149 | 130 | 134 | 143 | 118 | 136 | 132 | 133 | 141 |
340: 126 | 122 | 129 | 120 | 131 | 120 | 141 | 116 | 141 | 144 |
350: 125 | 128 | 129 | 125 | 152 | 161 | 151 | 135 | 129 | 137 |
360: 149 | 144 | 122 | 132 | 122 | 132 | 131 | 147 | 119 | 131 |
370: 146 | 137 | 140 | 145 | 117 | 130 | 152 | 143 | 153 | 141 |
380: 127 | 149 | 146 | 133 | 144 | 149 | 116 | 126 | 152 | 122 |
390: 159 | 142 | 153 | 144 | 141 | 144 | 160 | 150 | 136 | 159 |
400: 124 | 144 | 133 | 137 | 155 | 138 | 156 | 133 | 133 | 152 |
410: 144 | 112 | 150 | 147 | 120 | 152 | 136 | 169 | 151 | 161 |
420: 150 | 154 | 159 | 140 | 142 | 144 | 168 | 144 | 138 | 149 |
430: 164 | 143 | 145 | 140 | 146 | 134 | 173 | 166 | 155 | 132 |
440: 135 | 164 | 155 | 138 | 163 | 158 | 149 | 149 | 165 | 154 |
450: 136 | 163 | 154 | 158 | 142 | 166 | 154 | 141 | 146 | 172 |
460: 158 | 152 | 164 | 159 | 173 | 168 | 141 | 151 | 164 | 156 |
470: 189 | 178 | 165 | 173 | 161 | 172 | 155 | 174 | 183 | 133 |
480: 144 | 170 | 168 | 189 | 152 | 169 | 160 | 161 | 190 | 170 |
490: 147 | 176 | 175 | 181 | 172 | 167 | 209 | 175 | 175 | 180 |
```

```
500: 206 | 184 | 165 | 176 | 177 | 177 | 167 | 170 | 172 | 163 |
510: 189 | 158 | 184 | 184 | 207 | 179 | 184 | 180 | 176 | 210 |
520: 189 | 198 | 211 | 189 | 195 | 199 | 203 | 204 | 199 | 202 |
530: 208 | 210 | 221 | 220 | 217 | 228 | 231 | 224 | 231 | 219 |
540: 238 | 230 | 212 | 227 | 218 | 223 | 243 | 270 | 210 | 258 |
550: 235 | 212 | 242 | 245 | 266 | 246 | 235 | 212 | 225 | 281 |
560: 254 | 234 | 245 | 302 | 260 | 261 | 241 | 275 | 249 | 258 |
570: 259 | 278 | 261 | 251 | 272 | 236 | 273 | 268 | 213 | 222 |
580: 195 | 199 | 182 | 186 | 188 | 187 | 183 | 190 | 176 | 160 |
590: 172 | 155 | 188 | 157 | 192 | 184 | 165 | 176 | 181 | 184 |
600: 202 | 203 | 176 | 184 | 169 | 167 | 193 | 159 | 166 | 173 |
610: 160 | 153 | 185 | 181 | 156 | 164 | 166 | 155 | 182 | 140 |
620: 166 | 153 | 161 | 158 | 155 | 143 | 155 | 164 | 155 | 141 |
630: 169 | 156 | 168 | 166 | 147 | 162 | 169 | 149 | 156 | 138 |
640: 154 | 156 | 144 | 160 | 150 | 148 | 146 | 181 | 155 | 151 |
650: 161 | 144 | 182 | 152 | 166 | 140 | 172 | 168 | 171 | 158 |
660: 178 | 167 | 155 | 178 | 172 | 167 | 167 | 161 | 159 | 162 |
670: 159 | 137 | 137 | 136 | 106 | 101 | 96 | 105 | 92 | 84 |
680: 91 | 93 | 96 | 91 | 92 | 81 | 88 | 78 | 84 | 94 |
690: 82 | 83 | 72 | 79 | 76 | 95 | 75 | 76 | 70 | 83 |
700: 90 | 91 | 90 | 376 | 2202 | 4508 | 1413 | 93 | 57 | 61 |
710: 65 | 62 | 59 | 65 | 55 | 50 | 48 | 40 | 61 | 49 |
720: 43 | 43 | 47 | 38 | 44 | 41 | 29 | 28 | 27 | 28 |
730: 28 | 41 | 33 | 35 | 18 | 26 | 34 | 26 | 12 | 26 |
740: 33 | 28 | 23 | 16 | 21 | 24 | 22 | 10 | 19 | 15 |
750: 15 | 16 | 17 | 13 | 14 | 14 | 14 | 13 | 8 | 19 |
760: 11 | 13 | 14 | 14 | 14 | 18 | 16 | 9 | 14 | 12 |
770: 15 | 14 | 14 | 21 | 11 | 14 | 13 | 10 | 17 | 11 |
780: 19 | 14 | 19 | 16 | 10 | 10 | 19 | 11 | 20 | 14 |
790: 10 | 17 | 19 | 20 | 16 | 14 | 30 | 26 | 45 | 128 |
800: 1002 | 3477 | 2573 | 233 | 10 | 10 | 8 | 2 | 7 | 8 |
810: 4 | 4 | 8 | 11 | 6 | 6 | 5 | 7 | 4 | 4 |
820: 7 | 11 | 5 | 5 | 2 | 8 | 3 | 2 | 2 | 6 |
830: 5 | 4 | 7 | 6 | 2 | 7 | 8 | 4 | 8 | 6 |
840: 4 | 8 | 2 | 6 | 4 | 7 | 10 | 7 | 4 | 3 |
850: 1 | 3 | 4 | 4 | 6 | 4 | 2 | 9 | 3 | 8 |
860: 1 | 3 | 7 | 3 | 5 | 4 | 4 | 3 | 4 | 3 |
870: 4 | 8 | 3 | 2 | 4 | 5 | 3 | 4 | 12 | 26 |
880: 19 | 1 | 4 | 2 | 6 | 0 | 4 | 2 | 2 | 7 |
890: 1 | 7 | 2 | 6 | 2 | 3 | 7 | 8 | 6 | 4 |
900: 3 | 2 | 10 | 7 | 4 | 6 | 6 | 2 | 4 | 5 |
910: 3 | 2 | 4 | 5 | 3 | 0 | 4 | 4 | 3 | 6 |
920: 1 | 3 | 4 | 4 | 4 | 2 | 3 | 7 | 1 | 2 |
930: 5 | 2 | 3 | 5 | 2 | 1 | 6 | 5 | 2 | 3 |
940: 5 | 3 | 3 | 3 | 9 | 5 | 5 | 0 | 2 | 8 |
950: 3 | 3 | 3 | 2 | 2 | 3 | 3 | 5 | 7 | 3 |
960: 3 | 2 | 5 | 7 | 0 | 4 | 5 | 2 | 4 | 2 |
970: 7 | 2 | 4 | 5 | 2 | 4 | 4 | 2 | 4 | 7 |
980: 5 | 3 | 3 | 4 | 2 | 5 | 1 | 4 | 1 | 4 |
990: 2 | 1 | 3 | 2 | 2 | 2 | 4 | 1 | 2 | 2 |
```

```
1000: 4 | 1 | 7 | 1 | 2 | 1 | 4 | 3 | 5 | 7 |
1010: 2 | 1 | 2 | 3 | 4 | 2 | 1 | 2 | 2 | 4 |
1020: 4 | 3 | 6 | 6 |
```