



**EXPERIMENT**

Spectrum Name:  
Description:  
Student ID:  
Detector:  
Comments:  
Start Time: February 07, 2023, 08:05:42  
End Time: February 07, 2023, 08:06:44

**SET UP**

Acquisition Mode: PHA Pre-Amp	High Voltage: 800
Conversion Gain: 1024 Coarse Gain: 8	Fine Gain: 1.24
Upper Discriminator: 1048 Channels	Lower Discriminator: 14 Channels
Live Time: 61.25 Real Time: 62.1	Percent Dead: 1.36

**REGIONS OF INTEREST: Not Calibrated**

ROI Start	ROI End	Gross	Net	Centroid	FWHM
41	62	3174	786	50	7
678	759	8574	6154	713	35
762	859	6822	6282	808	40

0: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  
10: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |  
20: 81 | 87 | 90 | 119 | 123 | 119 | 116 | 133 | 124 | 112 |  
30: 110 | 112 | 119 | 128 | 124 | 103 | 122 | 123 | 108 | 107 |  
40: 102 | 122 | 128 | 142 | 151 | 178 | 184 | 197 | 196 | 197 |  
50: 159 | 148 | 136 | 148 | 136 | 141 | 148 | 114 | 126 | 115 |  
60: 112 | 99 | 97 | 108 | 113 | 105 | 115 | 115 | 103 | 98 |  
70: 110 | 107 | 103 | 97 | 107 | 104 | 111 | 127 | 116 | 105 |  
80: 99 | 109 | 99 | 111 | 96 | 98 | 106 | 96 | 104 | 93 |  
90: 115 | 110 | 125 | 124 | 94 | 112 | 137 | 107 | 95 | 115 |  
100: 123 | 103 | 104 | 95 | 124 | 125 | 105 | 115 | 117 | 104 |  
110: 105 | 95 | 113 | 104 | 101 | 96 | 124 | 85 | 103 | 128 |  
120: 137 | 123 | 115 | 118 | 99 | 120 | 121 | 99 | 121 | 122 |  
130: 139 | 137 | 111 | 135 | 113 | 147 | 146 | 140 | 139 | 146 |  
140: 174 | 136 | 182 | 150 | 133 | 125 | 180 | 169 | 143 | 138 |  
150: 150 | 162 | 143 | 147 | 131 | 115 | 139 | 148 | 147 | 132 |  
160: 139 | 137 | 136 | 145 | 126 | 124 | 131 | 149 | 138 | 132 |  
170: 137 | 146 | 131 | 133 | 131 | 118 | 154 | 112 | 114 | 120 |  
180: 122 | 127 | 127 | 121 | 115 | 95 | 128 | 111 | 125 | 129 |  
190: 120 | 128 | 123 | 125 | 129 | 124 | 114 | 122 | 116 | 123 |  
200: 116 | 120 | 110 | 121 | 98 | 103 | 124 | 110 | 108 | 115 |  
210: 115 | 126 | 101 | 90 | 111 | 120 | 97 | 94 | 100 | 108 |  
220: 97 | 105 | 118 | 108 | 98 | 100 | 83 | 102 | 103 | 94 |  
230: 99 | 99 | 101 | 101 | 88 | 97 | 95 | 114 | 96 | 65 |  
240: 95 | 112 | 101 | 90 | 104 | 84 | 90 | 93 | 89 | 90 |  
250: 100 | 97 | 83 | 84 | 104 | 82 | 88 | 95 | 91 | 87 |  
260: 83 | 78 | 85 | 80 | 89 | 83 | 89 | 87 | 83 | 100 |  
270: 80 | 86 | 82 | 83 | 101 | 91 | 84 | 81 | 80 | 86 |  
280: 84 | 88 | 85 | 77 | 81 | 79 | 78 | 73 | 84 | 84 |  
290: 85 | 83 | 83 | 73 | 78 | 100 | 88 | 65 | 83 | 82 |  
300: 85 | 86 | 87 | 90 | 79 | 98 | 82 | 97 | 92 | 78 |  
310: 86 | 90 | 75 | 82 | 76 | 75 | 86 | 86 | 83 | 98 |  
320: 84 | 71 | 70 | 85 | 76 | 78 | 82 | 72 | 69 | 71 |  
330: 86 | 71 | 70 | 88 | 90 | 77 | 71 | 76 | 66 | 71 |  
340: 61 | 70 | 76 | 74 | 85 | 76 | 91 | 76 | 82 | 77 |  
350: 85 | 83 | 65 | 78 | 81 | 96 | 68 | 80 | 69 | 74 |  
360: 74 | 84 | 79 | 80 | 81 | 87 | 61 | 88 | 79 | 87 |  
370: 92 | 69 | 91 | 66 | 72 | 78 | 66 | 74 | 72 | 70 |  
380: 66 | 79 | 64 | 73 | 76 | 71 | 80 | 76 | 74 | 75 |  
390: 81 | 68 | 62 | 66 | 81 | 75 | 72 | 77 | 84 | 73 |  
400: 81 | 79 | 87 | 63 | 68 | 85 | 75 | 84 | 88 | 102 |  
410: 78 | 94 | 77 | 82 | 91 | 54 | 85 | 70 | 76 | 78 |  
420: 76 | 75 | 100 | 82 | 74 | 74 | 87 | 94 | 78 | 80 |  
430: 76 | 73 | 83 | 99 | 98 | 71 | 89 | 84 | 69 | 72 |  
440: 69 | 88 | 89 | 83 | 75 | 85 | 81 | 78 | 91 | 88 |  
450: 70 | 82 | 80 | 74 | 91 | 73 | 81 | 92 | 82 | 82 |  
460: 88 | 87 | 87 | 78 | 84 | 95 | 85 | 86 | 82 | 72 |  
470: 83 | 82 | 100 | 76 | 84 | 90 | 93 | 91 | 74 | 84 |  
480: 80 | 83 | 97 | 96 | 91 | 95 | 95 | 86 | 86 | 98 |  
490: 96 | 82 | 87 | 94 | 105 | 81 | 92 | 72 | 81 | 87 |

500: 89 | 80 | 95 | 101 | 110 | 89 | 102 | 94 | 92 | 94 |  
510: 95 | 107 | 94 | 118 | 107 | 82 | 88 | 107 | 99 | 85 |  
520: 106 | 91 | 111 | 106 | 106 | 97 | 86 | 96 | 90 | 109 |  
530: 105 | 112 | 110 | 92 | 97 | 108 | 86 | 86 | 98 | 88 |  
540: 117 | 86 | 117 | 108 | 103 | 105 | 86 | 116 | 120 | 102 |  
550: 89 | 110 | 103 | 86 | 102 | 81 | 110 | 113 | 109 | 113 |  
560: 99 | 100 | 88 | 94 | 103 | 102 | 85 | 98 | 104 | 96 |  
570: 93 | 85 | 106 | 79 | 109 | 88 | 94 | 84 | 94 | 90 |  
580: 75 | 83 | 83 | 94 | 80 | 79 | 74 | 82 | 71 | 86 |  
590: 67 | 71 | 77 | 79 | 80 | 72 | 71 | 94 | 67 | 71 |  
600: 57 | 64 | 80 | 78 | 87 | 63 | 80 | 75 | 66 | 77 |  
610: 61 | 47 | 64 | 65 | 55 | 81 | 52 | 54 | 63 | 62 |  
620: 77 | 67 | 58 | 66 | 61 | 59 | 55 | 70 | 61 | 52 |  
630: 72 | 63 | 58 | 61 | 55 | 47 | 64 | 60 | 61 | 78 |  
640: 63 | 60 | 56 | 62 | 68 | 67 | 52 | 49 | 58 | 50 |  
650: 48 | 62 | 61 | 75 | 53 | 51 | 50 | 44 | 57 | 50 |  
660: 72 | 68 | 65 | 44 | 47 | 59 | 51 | 44 | 44 | 54 |  
670: 49 | 44 | 41 | 52 | 39 | 50 | 52 | 47 | 43 | 49 |  
680: 64 | 58 | 45 | 59 | 67 | 63 | 86 | 74 | 76 | 85 |  
690: 67 | 98 | 114 | 94 | 115 | 99 | 117 | 114 | 150 | 139 |  
700: 138 | 183 | 131 | 144 | 169 | 166 | 201 | 169 | 193 | 181 |  
710: 193 | 194 | 178 | 201 | 185 | 202 | 188 | 204 | 195 | 186 |  
720: 184 | 171 | 168 | 169 | 160 | 159 | 151 | 136 | 162 | 117 |  
730: 122 | 128 | 91 | 110 | 92 | 82 | 88 | 77 | 76 | 62 |  
740: 51 | 61 | 53 | 48 | 45 | 46 | 35 | 34 | 32 | 19 |  
750: 18 | 14 | 26 | 19 | 15 | 17 | 17 | 12 | 12 | 18 |  
760: 14 | 5 | 8 | 8 | 8 | 11 | 14 | 11 | 10 | 25 |  
770: 20 | 26 | 23 | 30 | 23 | 27 | 27 | 33 | 37 | 39 |  
780: 33 | 43 | 52 | 47 | 59 | 60 | 68 | 52 | 75 | 97 |  
790: 90 | 100 | 87 | 94 | 95 | 118 | 121 | 116 | 152 | 108 |  
800: 125 | 117 | 147 | 141 | 124 | 155 | 152 | 148 | 171 | 135 |  
810: 136 | 161 | 154 | 166 | 163 | 147 | 158 | 125 | 139 | 131 |  
820: 117 | 117 | 140 | 119 | 98 | 95 | 103 | 101 | 75 | 68 |  
830: 73 | 72 | 60 | 55 | 48 | 53 | 30 | 50 | 53 | 36 |  
840: 34 | 43 | 20 | 24 | 20 | 17 | 16 | 16 | 15 | 13 |  
850: 19 | 11 | 13 | 15 | 9 | 9 | 4 | 9 | 5 | 5 |  
860: 6 | 3 | 4 | 8 | 1 | 1 | 2 | 3 | 9 | 3 |  
870: 1 | 4 | 7 | 5 | 2 | 3 | 3 | 3 | 2 | 1 |  
880: 3 | 2 | 1 | 2 | 2 | 3 | 0 | 3 | 6 | 2 |  
890: 1 | 5 | 2 | 4 | 2 | 6 | 1 | 3 | 3 | 2 |  
900: 3 | 0 | 2 | 3 | 1 | 2 | 3 | 3 | 0 | 1 |  
910: 2 | 2 | 1 | 2 | 0 | 4 | 3 | 4 | 1 | 2 |  
920: 0 | 3 | 1 | 0 | 3 | 3 | 2 | 1 | 5 | 2 |  
930: 4 | 0 | 1 | 1 | 3 | 1 | 0 | 3 | 2 | 2 |  
940: 1 | 3 | 0 | 6 | 3 | 3 | 3 | 1 | 1 | 0 |  
950: 2 | 3 | 0 | 1 | 1 | 0 | 3 | 2 | 2 | 2 |  
960: 2 | 0 | 2 | 4 | 0 | 1 | 2 | 5 | 1 | 3 |  
970: 1 | 0 | 2 | 0 | 2 | 3 | 2 | 0 | 5 | 0 |  
980: 1 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 1 | 3 |  
990: 3 | 1 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 0 |

1000: 1 | 4 | 1 | 2 | 0 | 3 | 2 | 4 | 0 | 3 |  
1010: 0 | 1 | 1 | 0 | 4 | 0 | 3 | 1 | 3 | 3 |  
1020: 3 | 7 | 1 | 1 |