

EXPERIMENT

Spectrum Name:
Description:
Student ID:
Detector:
Comments:

Start Time: February 07, 2023, 08:20:10 End Time: February 07, 2023, 08:21:23

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: 73.04 Real Time: 73.1 Percent Dead: 0.08

REGIONS OF INTEREST: Not Calibrated

ROI Start ROI End Gross Net Centroid FWHM 36 71 1122 815 54 8

```
10: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
20: 4 | 5 | 5 | 5 | 7 | 6 | 7 | 9 | 10 | 8 |
30: 11 | 10 | 9 | 7 | 9 | 12 | 8 | 5 | 17 | 11 |
40: 16 | 16 | 8 | 18 | 18 | 23 | 23 | 28 | 16 | 26 |
50: 35 | 34 | 35 | 42 | 67 | 88 | 89 | 86 | 100 | 77 |
60: 49 | 31 | 31 | 25 | 13 | 12 | 13 | 16 | 13 | 11 |
70: 11 | 11 | 10 | 8 | 11 | 19 | 8 | 8 | 11 | 7 |
80: 13 | 11 | 8 | 11 | 14 | 6 | 14 | 14 | 10 | 8 |
90: 9 | 7 | 14 | 6 | 7 | 6 | 10 | 7 | 8 | 6 |
100: 8 | 7 | 14 | 12 | 5 | 9 | 7 | 6 | 4 | 5 |
110: 8 | 11 | 6 | 8 | 9 | 2 | 9 | 8 | 10 | 9 |
120: 8 | 7 | 6 | 13 | 1 | 4 | 8 | 6 | 4 | 5 |
130: 6 | 5 | 4 | 3 | 4 | 8 | 12 | 7 | 3 | 9 |
140: 5 | 3 | 7 | 9 | 5 | 7 | 8 | 5 | 8 | 5 |
150: 2 | 6 | 6 | 6 | 3 | 4 | 4 | 2 | 4 | 5 |
160: 2 | 4 | 8 | 7 | 3 | 4 | 6 | 5 | 3 | 4 |
170: 2 | 4 | 5 | 3 | 3 | 2 | 2 | 2 | 1 | 3 |
180: 1 | 4 | 3 | 4 | 5 | 2 | 3 | 9 | 5 | 2 |
190: 1 | 1 | 7 | 4 | 0 | 2 | 2 | 0 | 2 | 3 |
200: 3 | 0 | 2 | 3 | 8 | 2 | 3 | 7 | 3 | 5 |
210: 1 | 3 | 0 | 1 | 2 | 3 | 5 | 2 | 3 | 0 |
220: 1 | 2 | 3 | 1 | 1 | 4 | 3 | 2 | 3 | 3 |
230: 0 | 1 | 5 | 3 | 4 | 1 | 2 | 3 | 4 | 1 |
240: 2 | 1 | 5 | 3 | 3 | 2 | 3 | 0 | 2 | 4 |
250: 3 | 3 | 1 | 2 | 2 | 0 | 5 | 0 | 1 | 0 |
260: 2 | 2 | 3 | 1 | 2 | 0 | 0 | 3 | 2 | 1 |
270: 2 | 3 | 1 | 2 | 0 | 4 | 3 | 3 | 1 | 0 |
280: 0 | 4 | 1 | 1 | 0 | 0 | 1 | 3 | 0 | 2 |
290: 0 | 3 | 1 | 0 | 0 | 0 | 3 | 2 | 2 | 2 |
300: 3 | 4 | 1 | 5 | 1 | 1 | 0 | 0 | 3 | 0 |
310: 1 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 2 | 1 |
320: 0 | 0 | 4 | 4 | 1 | 5 | 1 | 5 | 1 | 6 |
330: 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 4 |
340: 1 | 1 | 3 | 0 | 2 | 1 | 1 | 1 | 2 | 0 |
350: 1 | 1 | 2 | 0 | 1 | 0 | 0 | 3 | 1 | 2 |
370: 1 | 0 | 0 | 2 | 1 | 0 | 3 | 2 | 2 | 2 |
380: 3 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 2 |
390: 1 | 0 | 1 | 2 | 0 | 1 | 0 | 2 | 1 | 0 |
400: 1 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 3 | 3 |
410: 2 | 5 | 1 | 0 | 2 | 3 | 5 | 1 | 1 | 0 |
420: 1 | 4 | 1 | 0 | 2 | 0 | 3 | 0 | 2 | 0 |
430: 2 | 2 | 3 | 1 | 2 | 1 | 0 | 3 | 1 | 0 |
440: 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
450: 1 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 4 |
470: 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
480: 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
490: 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
```

520: 0 0 2 0 0 1 1 1 1 0 0 0 530: 0 1 1 1 0 0 0 1 1 1	500: 510:	0	1	0	 	0	 	2	1	0	1	0	 	3	 	0	 	0		1 2	
530: 0 1 1 5 1 1 0 1 1 1 0 2 2 2 540: 2 1 1 1 0 0 3 0 0 0 2 0 1 1 550: 1 1 1 1 0 0 0 1 1 1																					
540: 2 1 1 1 0 0 3 0 0 0 2 0 1 1 550: 1 1 1 0 0 0 1 1 1 1																					
550: 1 1 1 0 0 0 1 1 1 3 1 1 0 1 2 1 560: 0 1 1 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 </td <td></td>																					
560: 0 1 0 0 0 0 1 1 1 1																					
570: 0 0 0 2 1 1 0 0 0 2 0 0 0 0 0 0																					
580: 1 1 1 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 1 1 0 1																					
590: 1 0 1 1 0 1 1 1 1 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1																					
600: 0 0 1 1 0 1 1 0 1 1																					
610: 0 0 0 1 1 0 1 1 0 0																					
620: 0 1 2 0 0 2 0 0 1 1 1 0 0 0 0 0																					
640: 0		0	i	1	i	2		0	i	2	i	0		0		1	i	1	i	0	
650: 1 0 0 1 0 0 0 0 1 0 0	630:	0	Ì	1	Ì	1	Ì	0	Ī	0	Ì	0	Ì	1	i	1	Ì	0	Ì	2	Ì
660: 0 0 0 0 1 0 1 0 0 0	640:	0	Ì	1	Ì	0	Ì	2	Ī	0	Ì	2	Ì	0	i	1	Ì	0	Ì	0	Ì
670: 0 1 0 0 0 0 0 0 1 1	650:	1	1	0	ı	1	1	0	1	0	1	0	ı	1	Τ	0		1	1	0	
680: 0 2 1 1 1 0 2 0 1 1 0 0 690: 2 3 2 1 0 1 1 0 0 2 0 0 1 1 0 0 0 1 1 0 0	660:	0	1	0	1	0	1	1		0	1	0	1	0	Τ	0		3	1	0	1
690: 2 1 3 2 1 0 1 1 0 1 0 1 4 1 0 1 0 1 700: 0 1 0 1 1 1 0 1 0 1 0 1 1	670:	0	1	1		0		0		0	1	0		1	1	1		1		0	
700: 0 0 1 1 0 0 0 0 0 0	680:	0	1	2	-	1		1		0	1	2	-	0	Τ	0		1	-	0	1
710: 0 1 1 1 1 1 1 1 1 1	690:	2		3		2		0		1		0		0		4		0		0	
720: 1 1 1 2 0 0 0 1 1 0 0 1 0 0	700:	0	-	0		1		0		0	-	0		0	1	1		2	-	1	
730: 0 0 0 0 0 0 1 0 0 0	710:	0		1		1		1		1		0		0		0		0		1	
740: 0 1 1 0 0 0 1 1 0 0	720:	1		1		2		0		0		0		1		0		1		0	
750: 2 0 0 0 0 0 0 0 0 0	730:	0		0		0		0		1		1		0		0		0		0	
760: 0 0 1 1 1 1 0 1 1 0 0		0		1		0		0		1		0		0	1	0		0		0	
770: 0 0 1 1 1 0 1 0 1 2 1 0 1 1 0 1 1 780: 0 0 0 1 1 1 0 1 0 1 0 1 0 1 1	750:	2		0		0		0		0		0		0	-	0		1		0	
780: 0 0 1 1 0 0 0 0 0 0	760:	0		0		1		1		0		1		0		0		0		0	
790: 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 0 1 1 0 1				0						0						1					
800: 0 0 1 1 0 1 1 0 1 1																					
810: 0 0 1 1 0 0 1 1 0 0																					
820: 0 0 0 2 1 1 0 1 1 0 1 1 0 1 1																					
830: 0 0 0 0 0 0 1 0 0 0																					
840: 1 0 0 0 0 0 0 0 0 0																					
850: 0 0 0 0 0 1 1 0 0 1 1																					
860: 0 0 0 0 0 0 0 1 1 0 1 1																					
870: 0 2 0 0 0 0 0 1 1 1 1 1																					1
880: 0 1 1 0																					1
890: 0 0 0 1 1 0 1 2 1 0 1 1 0 1																					1
900: 0 0 0 0 0 1 0 1 0 0																					1
910: 0 0 1 0 0 0 0 0 0 0																					1
920: 0 0 0 0 0 1 0 1 0 1 0 1 0 0																					i
930: 0 0 0 0 0 0 0 0 0 0																					i
940: 0 0 0 1 0 0 0 0 0 0																					i
950: 0 0 0 1 0 0 0 0 0 0																					i
960: 0 0 0 0 0 0 0 0 0 0																					i
970: 0 0 0 0 0 0 0 0 0 0			Ì		1				Ì		Ì				Ī		Ì				Ι
		0		0		0	1	0	1	0		0		0	Ī	0		0		0	1
990: 0 0 0 0 0 0 0 0 0 0	980:	0		0		0		0		0		1		0	1	0		0		0	1
	990:	0		0		0		0	1	0		0		0	1	0		0		0	

1020: 0 | 1 | 0 | 0 |