

GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	21	Dates:	5/23/2021-5/29/2021	Counted On	5/24/2021
INSTRUMENT USED: Quantasart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.	uCi/swipe = CPM:C * Control Factor		uCi/cm ² = CPM:C * Control Factor / 100		
Limit of quantification (LOQ)=		8.78E-08 uCi/cm ²	QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK		

Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm ²	NOTE:
1.	BACKGROUND 1	29	*****	*****	
2.	BACKGROUND 2	24	*****	*****	
3.	BACKGROUND 3	27	*****	*****	
4.	BACKGROUND 4	29	*****	*****	
5.	BACKGROUND 5	29	*****	*****	
6.	BACKGROUND 6	29	*****	*****	
7.	B021 ELEVATOR ENTRANCE	30	M	M	
8.	B021 FENCED GATE	26	M	M	
9.	B021 RAM SAFE	28	M	M	
10.	B021 EAST FLOOR	28	M	M	
11.	B021 NORTH BENCH TOP	29	M	M	
12.	B021 WEST LAB FLOOR	28	M	M	
13.	B021 WORK PLATFORM	30	M	M	
14.	B021 CALORIMETER	29	M	M	
15.	B021 COMPUTERS	27	M	M	
16.	B021 DSC/TGA	29	M	M	
17.	B021 SOUTH BENCH TOP	26	M	M	
18.	121 DOORWAY	30	M	M	
19.	121 GLOVE BOX- FLOOR	27	M	M	
20.	121 GLOVE BOX	28	M	M	
21.	121 WEST BENCH TOP	24	M	M	
22.	121 CENTER OF LAB	28	M	M	
23.	122 EAST BENCH TOP	26	M	M	

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³⁶ CI SOURCE 09/14/1971	50033	*****	*****	
	100.88%	CALIBRATION CHECK OK?		YES

Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contamination limit of 1 x 10⁻⁶ uCi/cm².

SURVEY PREPARED BY: R. Bergman	REVIEWED BY: M. Heine
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SIGN/DATE: <i>R. Bergman</i> 05/24/2021	SIGN/DATE: <i>M. Heine</i> 6/11/2021
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Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210524_1351

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210524_1351\20210524_1351.results

Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On

Luminescence Correction: Off

Colored Samples: n/a

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

P#	DATE	TIME	S#	Count	Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	5/24/2021	1:53:03 PM	1	5.00	24	5	29	222.46		
1	5/24/2021	1:59:26 PM	2	5.00	20	4	24	183.77		
1	5/24/2021	2:05:49 PM	3	5.00	23	5	27	263.02		
1	5/24/2021	2:12:10 PM	4	5.00	25	4	29	190.31		
1	5/24/2021	2:18:33 PM	5	5.00	23	6	29	275.12		
1	5/24/2021	2:24:55 PM	6	5.00	25	4	29	244.95		
1	5/24/2021	2:31:19 PM	7	5.00	23	7	30	248.18		
1	5/24/2021	2:37:41 PM	8	5.00	22	4	26	157.94		
1	5/24/2021	2:44:07 PM	9	5.00	24	4	28	160.04		
1	5/24/2021	2:50:34 PM	10	5.00	22	6	28	242.46		
1	5/24/2021	2:56:49 PM	11	5.00	26	2	29	158.29		
1	5/24/2021	3:03:11 PM	12	5.00	22	6	28	213.14		

1	5/24/2021	3:09:29 PM	13	5.00	23	6	30	219.71
1	5/24/2021	3:15:52 PM	14	5.00	23	6	29	231.99
1	5/24/2021	3:22:15 PM	15	5.00	22	5	27	293.09
1	5/24/2021	3:28:39 PM	16	5.00	25	4	29	246.53
1	5/24/2021	3:35:05 PM	17	5.00	22	4	26	188.19
1	5/24/2021	3:41:31 PM	18	5.00	25	4	30	172.96
1	5/24/2021	3:47:56 PM	19	5.00	23	4	27	200.08
1	5/24/2021	3:54:15 PM	20	5.00	25	3	28	159.83
1	5/24/2021	4:00:40 PM	21	5.00	20	4	24	201.72
1	5/24/2021	4:07:03 PM	22	5.00	25	3	28	125.97
1	5/24/2021	4:13:27 PM	23	5.00	20	6	26	251.88
1	5/24/2021	4:19:10 PM	24	5.00	14699	35334	50033	998.73

