

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053123\
 Data File : BG057625.D
 Acq On : 31 May 2023 17:18
 Operator : CG/JU
 Sample : 02953-03MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PNNL-RH-524-1MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023

Quant Time: Jun 01 03:55:32 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 03:51:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.337	152	26079	20.000	ng	0.00
21) Naphthalene-d8	11.174	136	100846	20.000	ng	0.00
39) Acenaphthene-d10	14.957	164	72844	20.000	ng	0.00
64) Phenanthrene-d10	17.695	188	186296	20.000	ng	0.00
76) Chrysene-d12	22.000	240	166281	20.000	ng	0.00
86) Perylene-d12	25.484	264	180395	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.864	112	204410	136.172	ng	0.00
7) Phenol-d6	7.491	99	273765	116.534	ng	0.00
23) Nitrobenzene-d5	9.523	82	194532	90.173	ng	0.00
42) 2,4,6-Tribromophenol	16.443	330	149960	128.583	ng	0.00
45) 2-Fluorobiphenyl	13.577	172	454752	89.717	ng	0.00
79) Terphenyl-d14	20.262	244	861032	89.697	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.661	88	24333	39.124	ng	# 52
3) Pyridine	4.089	79	48765	25.647	ng	99
4) n-Nitrosodimethylamine	3.990	42	33476	43.513	ng	88
6) Aniline	7.655	93	56048	19.721	ng	95
8) 2-Chlorophenol	7.902	128	76221	47.296	ng	97
9) Benzaldehyde	7.467	77	33855m	21.751	ng	
10) Phenol	7.520	94	92319	41.520	ng	98
11) bis(2-Chloroethyl)ether	7.737	93	72733	43.808	ng	99
12) 1,3-Dichlorobenzene	8.225	146	77858	45.348	ng	100
13) 1,4-Dichlorobenzene	8.372	146	78906	45.174	ng	99
14) 1,2-Dichlorobenzene	8.701	146	75508	44.319	ng	98
15) Benzyl Alcohol	8.578	79	81858	45.297	ng	93
16) 2,2'-oxybis(1-Chloropr...	8.859	45	90836	44.061	ng	97
17) 2-Methylphenol	8.783	107	69818	42.759	ng	97
18) Hexachloroethane	9.435	117	27442	45.882	ng	91
19) n-Nitroso-di-n-propyla...	9.141	70	67222	41.187	ng	97
20) 3+4-Methylphenols	9.118	107	94939	41.419	ng	97
22) Acetophenone	9.171	105	125044	46.371	ng	# 97
24) Nitrobenzene	9.564	77	96825	44.216	ng	97
25) Isophorone	10.081	82	181962	42.913	ng	99
26) 2-Nitrophenol	10.281	139	44571	47.470	ng	100
27) 2,4-Dimethylphenol	10.328	122	79648	49.065	ng	94
28) bis(2-Chloroethoxy)met...	10.551	93	101580	46.199	ng	99
29) 2,4-Dichlorophenol	10.827	162	83663	49.071	ng	97
30) 1,2,4-Trichlorobenzene	11.033	180	85543	46.037	ng	96
31) Naphthalene	11.227	128	234217	43.905	ng	98
32) Benzoic acid	10.493	122	34799m	38.322	ng	
33) 4-Chloroaniline	11.338	127	21767	8.873	ng	96
34) Hexachlorobutadiene	11.491	225	58584	45.583	ng	96
35) Caprolactam	12.114	113	26185m	37.048	ng	
36) 4-Chloro-3-methylphenol	12.437	107	92668	45.918	ng	98
37) 2-Methylnaphthalene	12.807	142	174478	41.672	ng	99
38) 1-Methylnaphthalene	13.024	142	165768	41.488	ng	98
40) 1,2,4,5-Tetrachloroben...	13.171	216	115823	48.442	ng	99
41) Hexachlorocyclopentadiene	13.136	237	66793	97.057	ng	94
43) 2,4,6-Trichlorophenol	13.406	196	76590	50.882	ng	96

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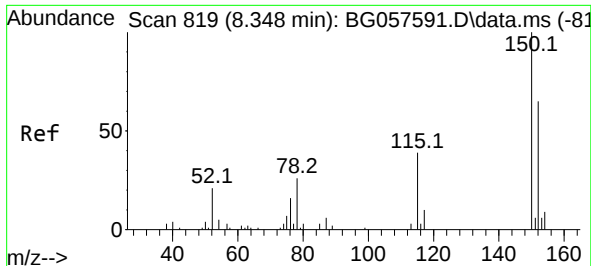
Manual Integrations
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 Supervised By :mohammad ahmed 06/01/2023

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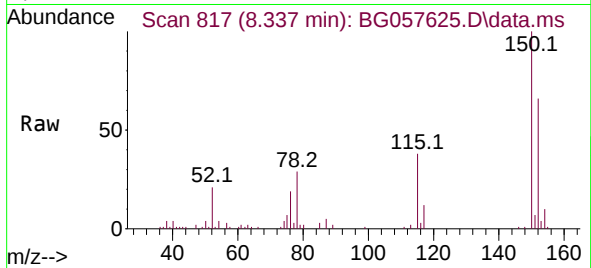
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.494	196	81015	45.190	ng	96
46) 1,1'-Biphenyl	13.794	154	251374	48.283	ng	99
47) 2-Chloronaphthalene	13.847	162	189808	48.402	ng	98
48) 2-Nitroaniline	14.047	65	64126	46.684	ng	98
49) Acenaphthylene	14.681	152	306159	46.105	ng	98
50) Dimethylphthalate	14.393	163	266905	44.457	ng	99
51) 2,6-Dinitrotoluene	14.528	165	60176	46.823	ng	95
52) Acenaphthene	15.022	154	184767	45.472	ng	95
53) 3-Nitroaniline	14.863	138	28612	21.345	ng #	93
54) 2,4-Dinitrophenol	15.086	184	70602	90.080	ng	98
55) Dibenzofuran	15.351	168	310790	44.763	ng	99
56) 4-Nitrophenol	15.180	139	78542	87.941	ng	98
57) 2,4-Dinitrotoluene	15.315	165	86339	44.869	ng	98
58) Fluorene	15.997	166	258626	44.118	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.580	232	79505	47.337	ng	98
60) Diethylphthalate	15.738	149	271849	43.382	ng	99
61) 4-Chlorophenyl-phenyle...	15.973	204	147964	45.290	ng	100
62) 4-Nitroaniline	16.026	138	59165	40.917	ng	92
63) Azobenzene	16.267	77	252771	45.358	ng	99
65) 4,6-Dinitro-2-methylph...	16.085	198	55698	49.103	ng	94
66) n-Nitrosodiphenylamine	16.191	169	230235	47.549	ng	99
67) 4-Bromophenyl-phenylether	16.866	248	98322	47.050	ng	98
68) Hexachlorobenzene	17.001	284	107819	50.053	ng	99
69) Atrazine	17.125	200	98320	47.295	ng	100
70) Pentachlorophenol	17.354	266	103739	94.515	ng	97
71) Phenanthrene	17.736	178	444199	46.594	ng	99
72) Anthracene	17.830	178	453886	46.410	ng	99
73) Carbazole	18.094	167	411634	47.049	ng	98
74) Di-n-butylphthalate	18.611	149	480667	46.279	ng	99
75) Fluoranthene	19.727	202	542478	43.832	ng	99
77) Benzidine	19.909	184	58519m	11.630	ng	
78) Pyrene	20.085	202	550318	46.481	ng	100
80) Butylbenzylphthalate	20.931	149	206873	47.977	ng	98
81) Benzo(a)anthracene	21.977	228	541894	46.974	ng	98
82) 3,3'-Dichlorobenzidine	21.871	252	121827	28.638	ng	98
83) Chrysene	22.047	228	494494	45.360	ng	99
84) Bis(2-ethylhexyl)phtha...	21.813	149	294498	47.881	ng	99
85) Di-n-octyl phthalate	23.099	149	492473	48.305	ng	100
87) Indeno(1,2,3-cd)pyrene	29.531	276	607280	48.284	ng #	93
88) Benzo(b)fluoranthene	24.368	252	538934	48.536	ng	98
89) Benzo(k)fluoranthene	24.444	252	529612	47.260	ng	99
90) Benzo(a)pyrene	25.320	252	474705	43.838	ng	99
91) Dibenzo(a,h)anthracene	29.578	278	503486	48.101	ng	99
92) Benzo(g,h,i)perylene	30.794	276	493518	48.344	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.337 min Scan# 81
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

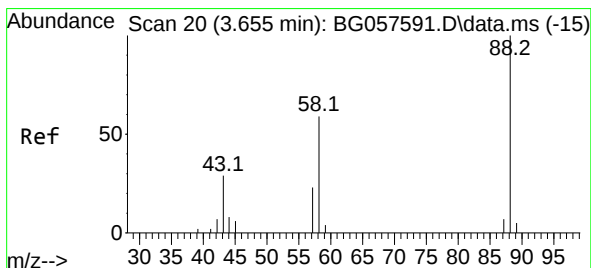
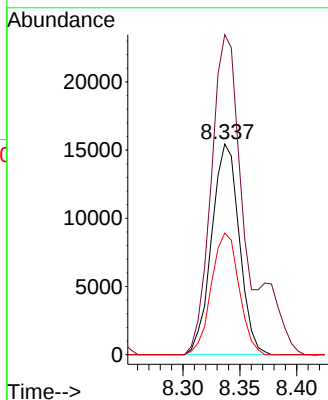
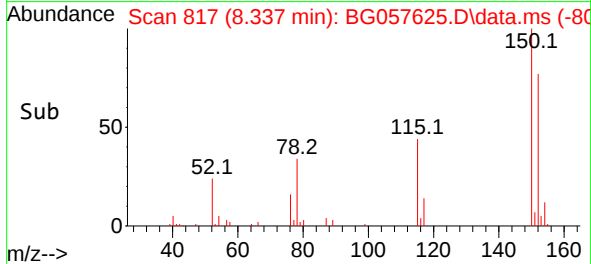
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:152 Resp: 26079
Ion Ratio Lower Upper
152 100
150 151.9 123.0 184.4
115 57.7 47.4 71.2

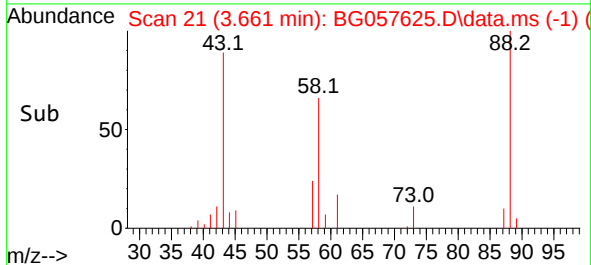
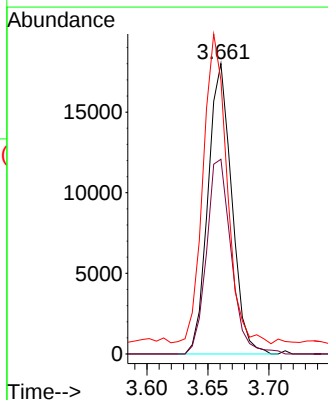
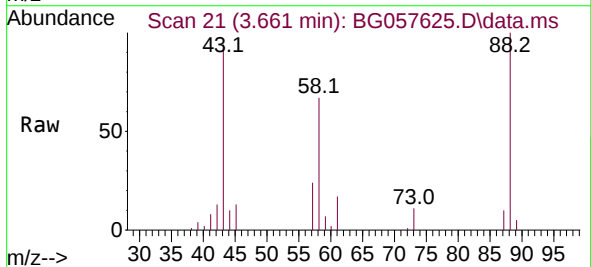
Manual Integrations
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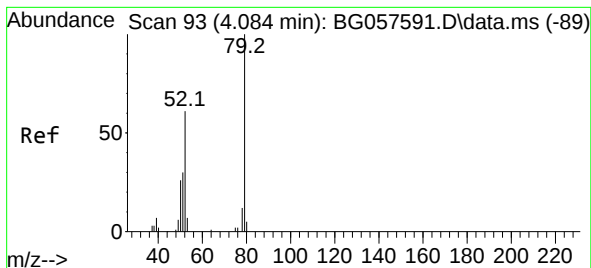
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#2
1,4-Dioxane
Concen: 39.124 ng
RT: 3.661 min Scan# 21
Delta R.T. 0.021 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion: 88 Resp: 24333
Ion Ratio Lower Upper
88 100
58 69.7 52.6 79.0
43 107.2 22.1 33.1#





#3

Pyridine

Concen: 25.647 ng

RT: 4.089 min Scan# 94

Delta R.T. 0.021 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion: 79 Resp: 4876

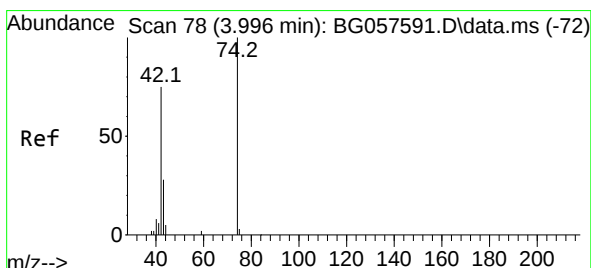
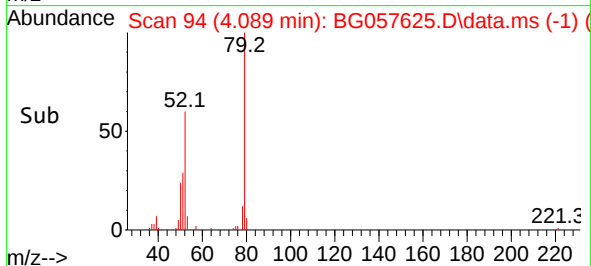
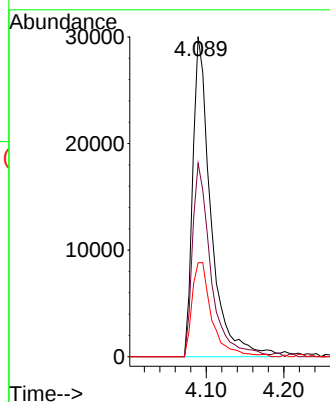
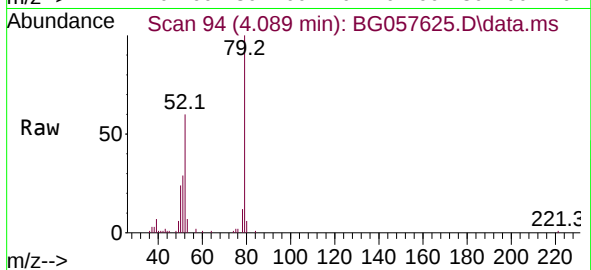
Ion	Ratio	Lower	Upper
79	100		
52	60.4	48.4	72.6
51	29.4	24.4	36.6

Manual Integrations

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Supervised By :mohammad ahmed 06/01/2023



#4

n-Nitrosodimethylamine

Concen: 43.513 ng

RT: 3.990 min Scan# 77

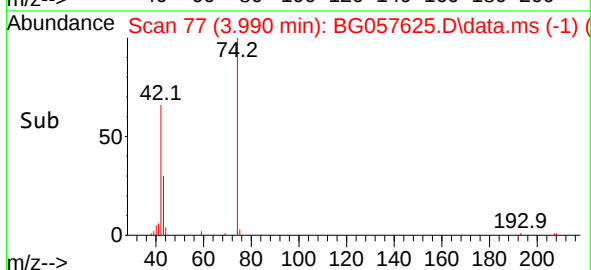
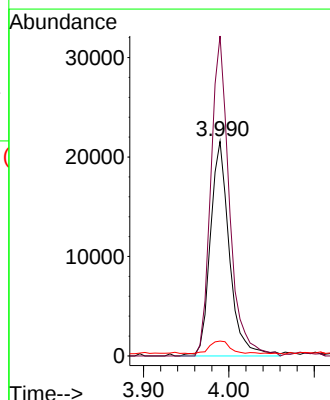
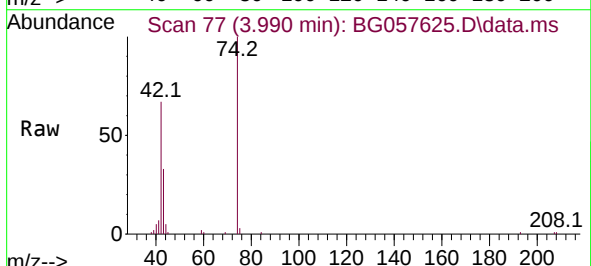
Delta R.T. 0.009 min

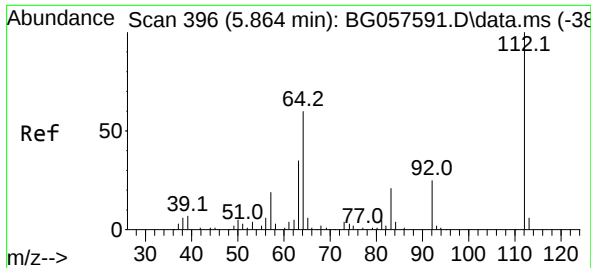
Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion: 42 Resp: 33476

Ion	Ratio	Lower	Upper
42	100		
74	149.1	107.3	160.9
44	6.9	6.1	9.1





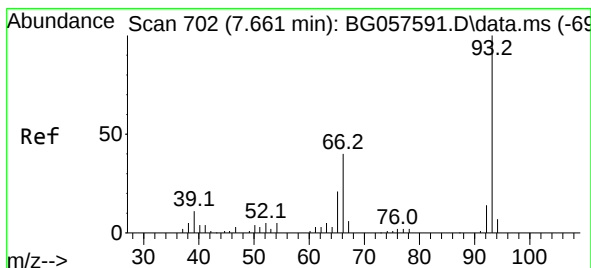
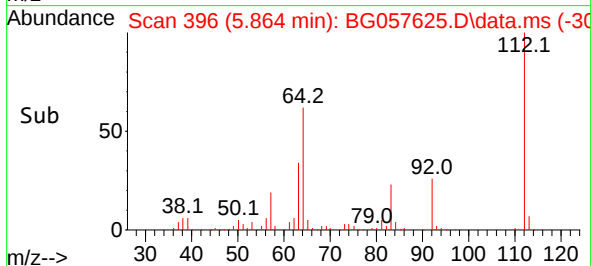
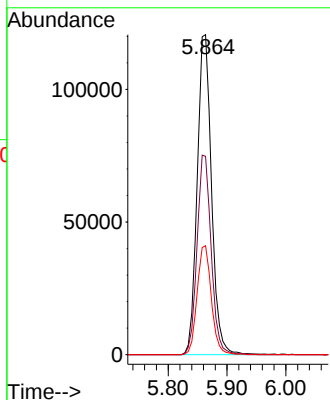
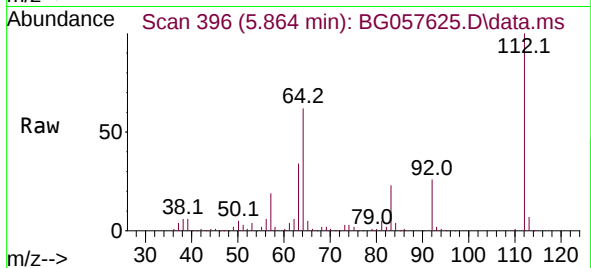
#5
2-Fluorophenol
Concen: 136.172 ng
RT: 5.864 min Scan# 396
Delta R.T. 0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :
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ClientSampleId :
PNNL-RH-524-1MS

Tgt Ion:112 Resp: 204410
Ion Ratio Lower Upper
112 100
64 62.0 47.8 71.6
63 34.0 27.8 41.8

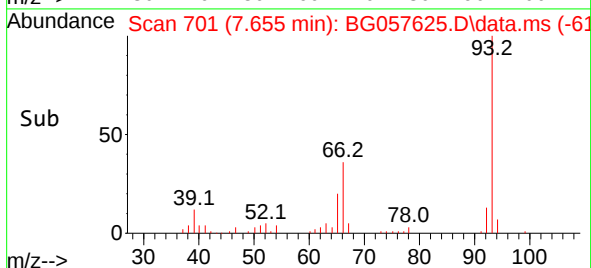
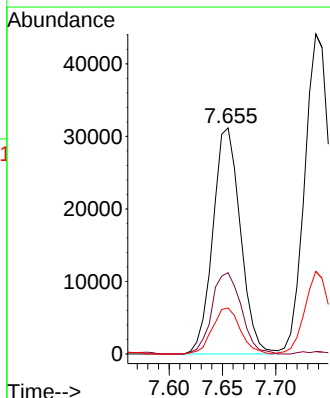
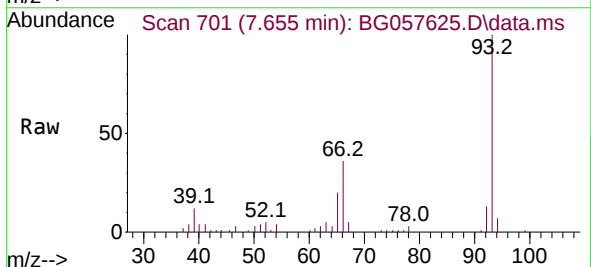
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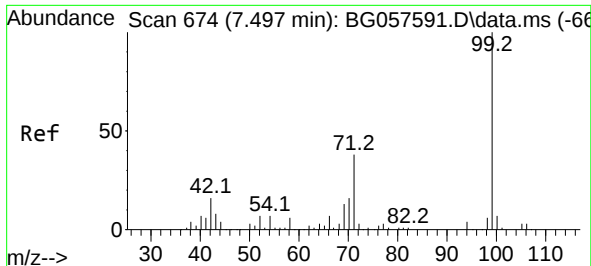
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#6
Aniline
Concen: 19.721 ng
RT: 7.655 min Scan# 701
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

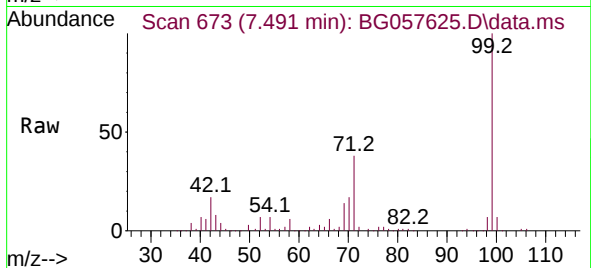
Tgt Ion: 93 Resp: 56048
Ion Ratio Lower Upper
93 100
66 35.9 32.2 48.4
65 20.3 16.7 25.1





#7
Phenol-d6
Concen: 116.534 ng
RT: 7.491 min Scan# 61
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

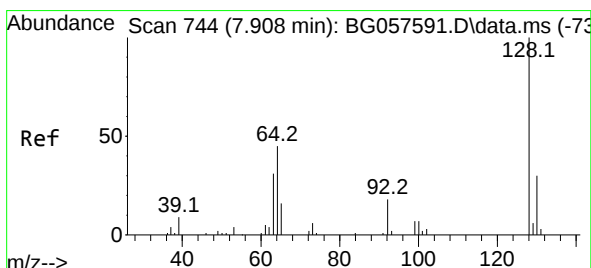
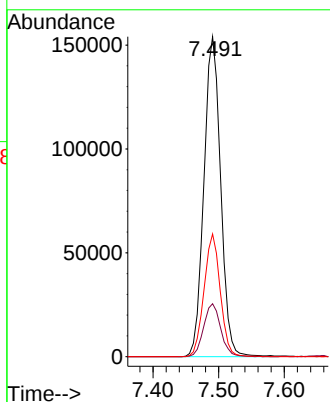
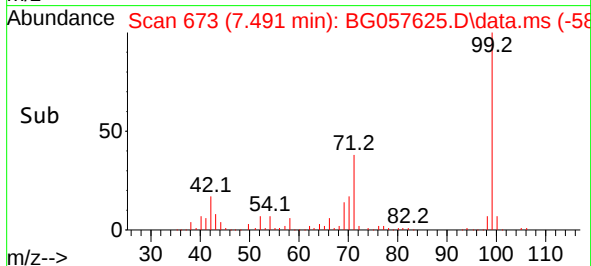
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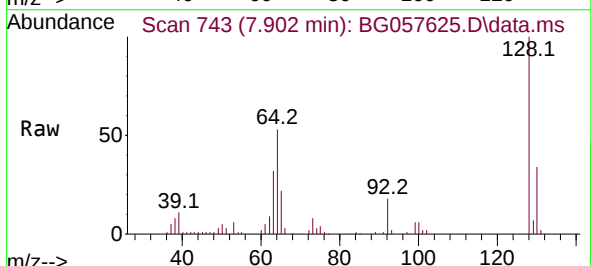
Tgt Ion: 99 Resp: 27376
Ion Ratio Lower Upper
99 100
42 16.6 12.8 19.2
71 38.3 30.3 45.5

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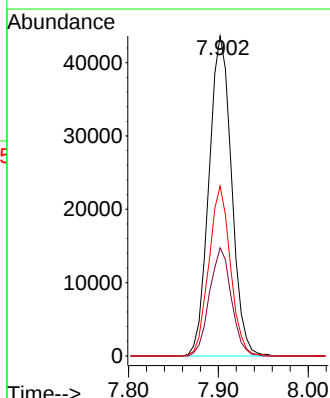
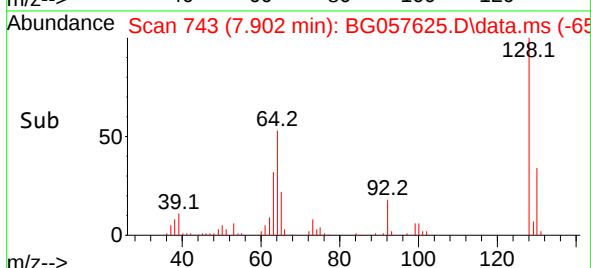
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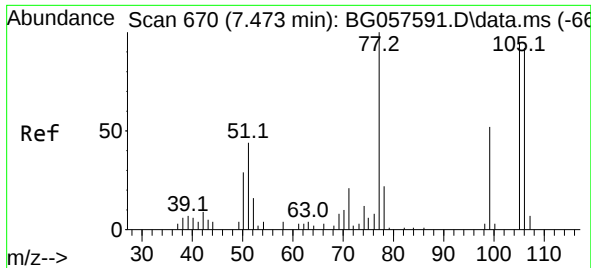


#8
2-Chlorophenol
Concen: 47.296 ng
RT: 7.902 min Scan# 743
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:128 Resp: 76221
Ion Ratio Lower Upper
128 100
130 33.8 10.5 50.5
64 53.1 33.8 73.8





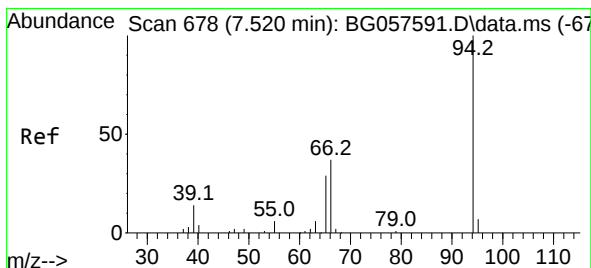
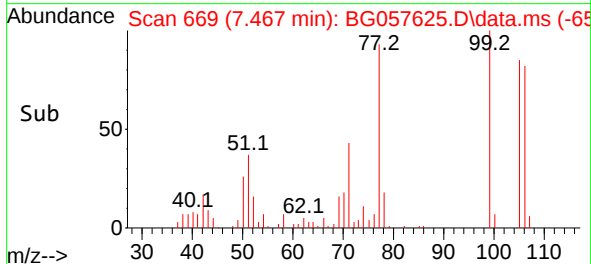
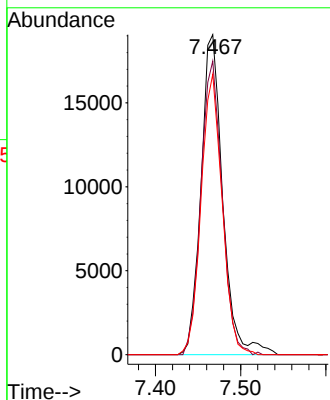
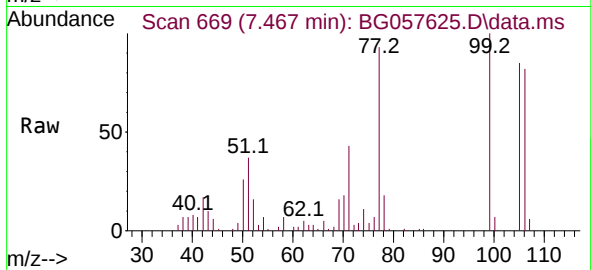
#9
Benzaldehyde
Concen: 21.751 ng m
RT: 7.467 min Scan# 669
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS

Tgt Ion: 77 Resp: 3385
Ion Ratio Lower Upper
77 100
105 91.7 75.0 115.0
106 87.7 72.5 112.5

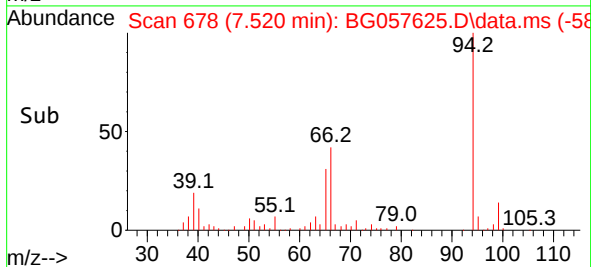
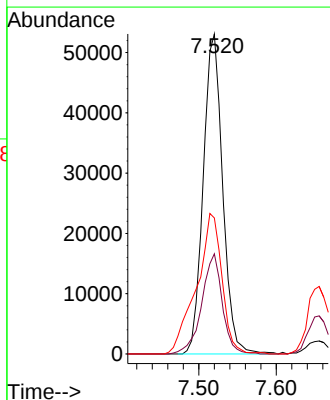
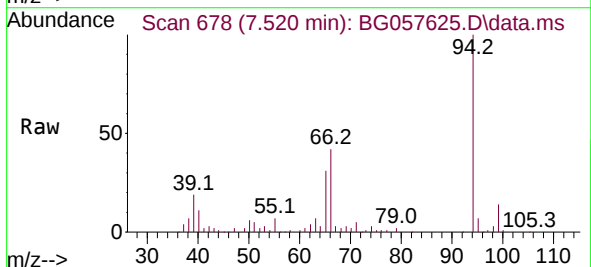
Manual Integrations
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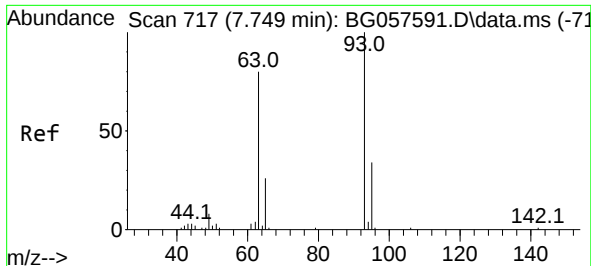
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#10
Phenol
Concen: 41.520 ng
RT: 7.520 min Scan# 678
Delta R.T. 0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion: 94 Resp: 92319
Ion Ratio Lower Upper
94 100
65 31.3 9.6 49.6
66 42.5 22.0 62.0





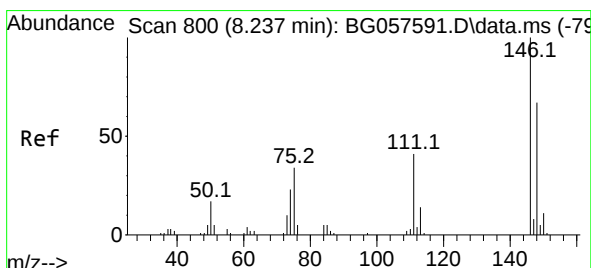
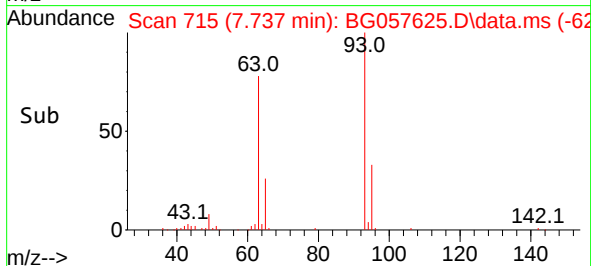
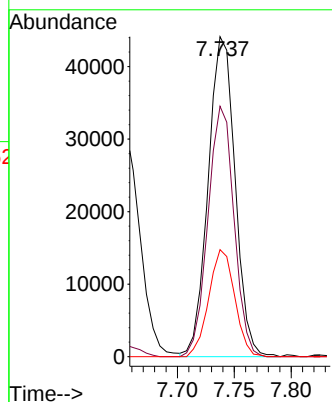
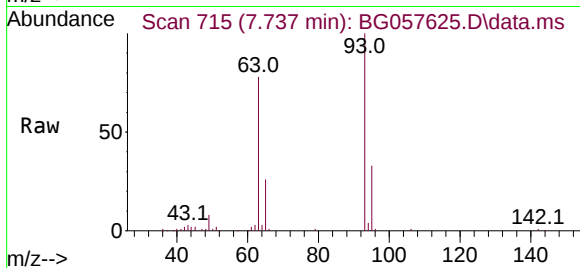
#11
bis(2-Chloroethyl)ether
Concen: 43.808 ng
RT: 7.737 min Scan# 715
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS

Tgt Ion: 93 Resp: 7273
Ion Ratio Lower Upper
93 100
63 78.2 59.3 99.3
95 33.4 14.1 54.1

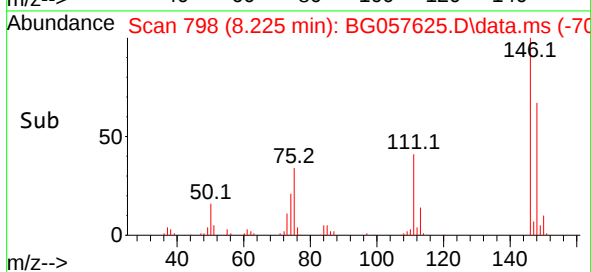
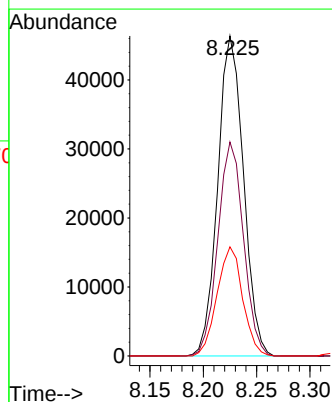
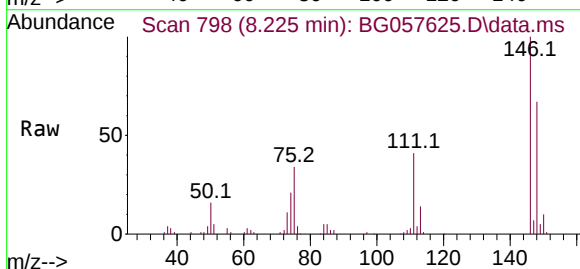
Manual Integrations
APPROVED

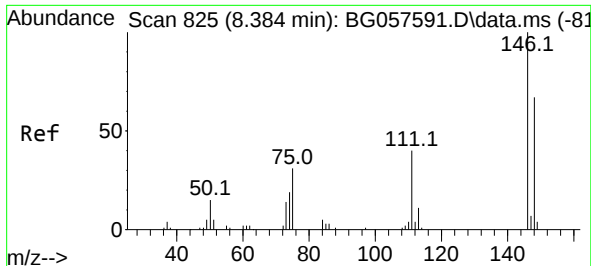
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#12
1,3-Dichlorobenzene
Concen: 45.348 ng
RT: 8.225 min Scan# 798
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:146 Resp: 77858
Ion Ratio Lower Upper
146 100
148 66.9 53.4 80.0
75 34.1 27.4 41.2





#13

1,4-Dichlorobenzene

Concen: 45.174 ng

RT: 8.372 min Scan# 81

Delta R.T. -0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

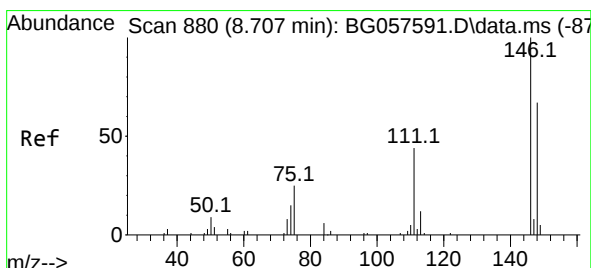
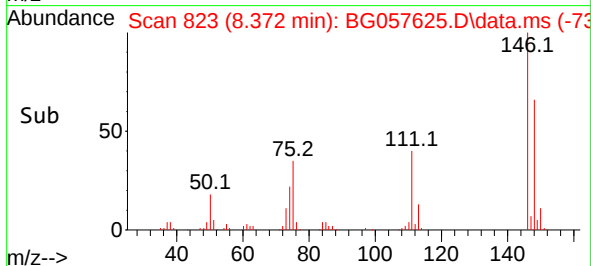
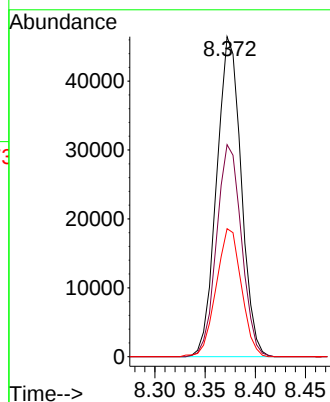
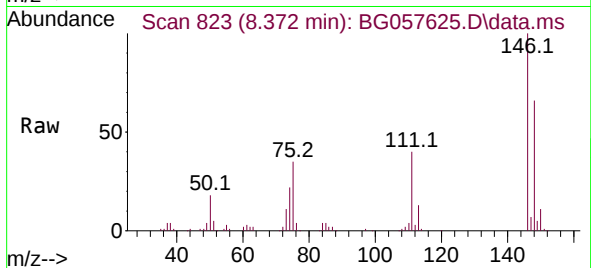
Tgt Ion:146 Resp: 78900
 Ion Ratio Lower Upper
 146 100
 148 66.2 53.8 80.6
 111 40.0 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#14

1,2-Dichlorobenzene

Concen: 44.319 ng

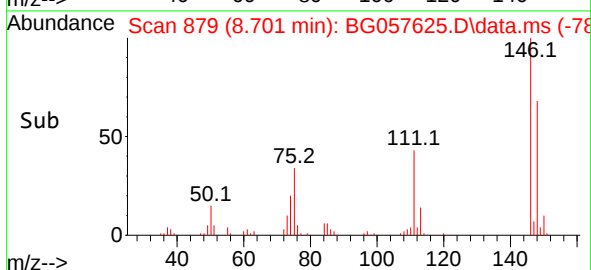
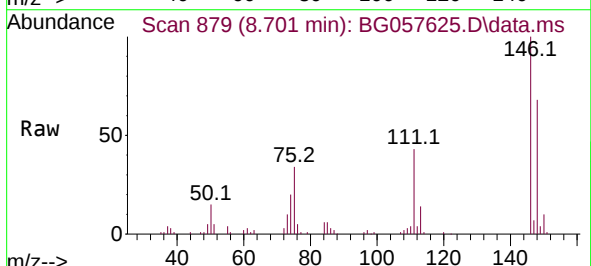
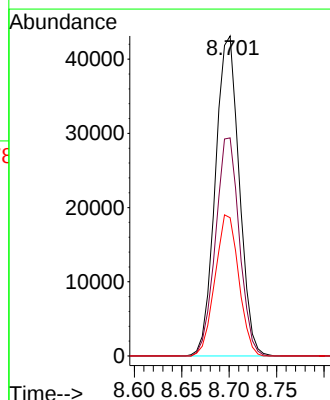
RT: 8.701 min Scan# 879

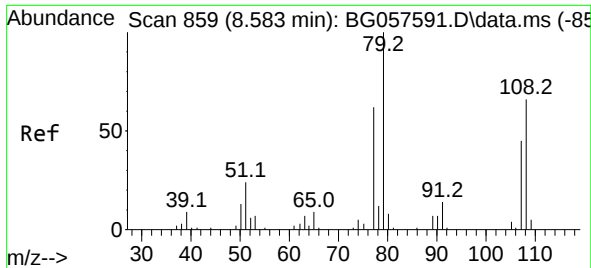
Delta R.T. 0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion:146 Resp: 75508
 Ion Ratio Lower Upper
 146 100
 148 68.2 53.5 80.3
 111 43.2 36.6 54.8





#15
Benzyl Alcohol
Concen: 45.297 ng
RT: 8.578 min Scan# 81
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

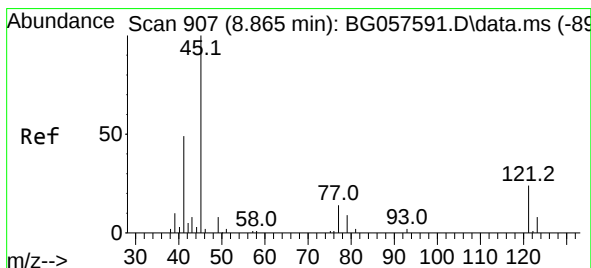
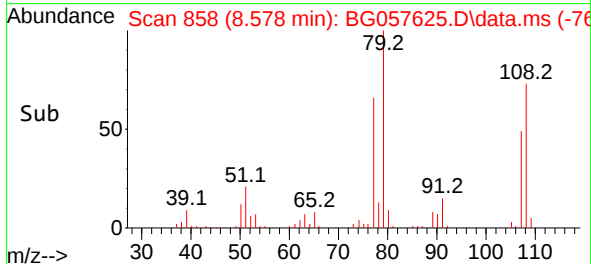
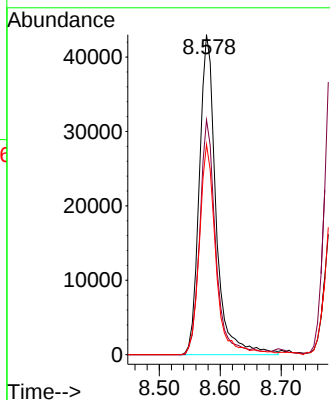
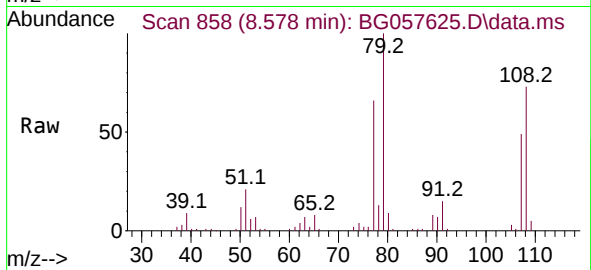
ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion: 79 Resp: 8185
Ion Ratio Lower Upper
79 100
108 73.4 52.6 78.8
77 65.7 49.7 74.5

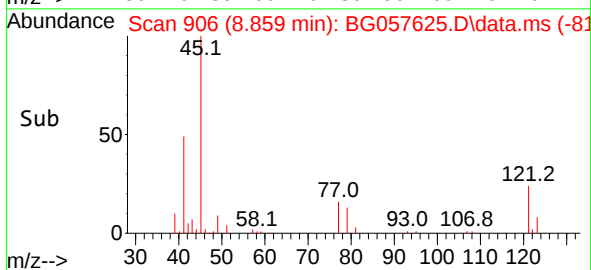
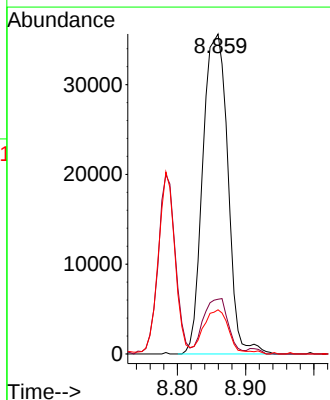
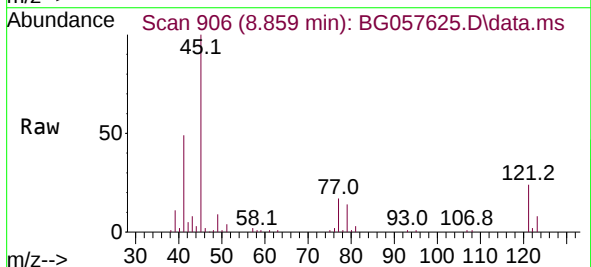
Manual Integrations
APPROVED

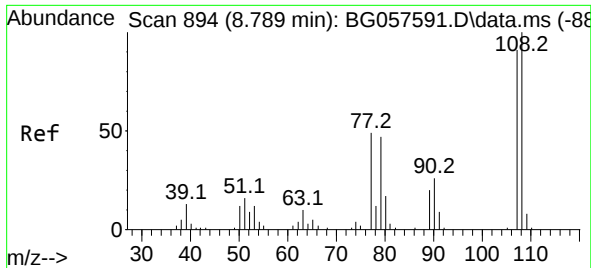
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.061 ng
RT: 8.859 min Scan# 906
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

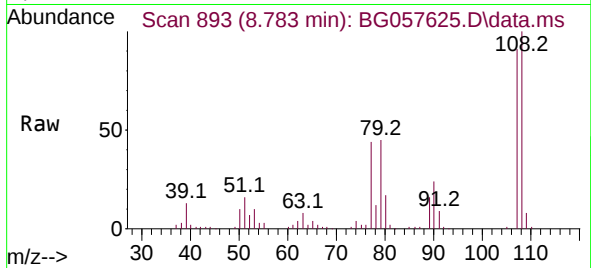
Tgt Ion: 45 Resp: 90836
Ion Ratio Lower Upper
45 100
77 17.1 0.0 39.2
79 13.8 0.0 34.2





#17
2-Methylphenol
Concen: 42.759 ng
RT: 8.783 min Scan# 894
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

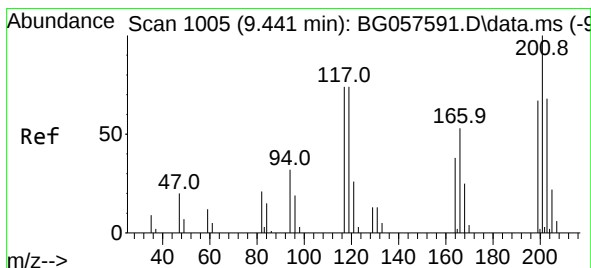
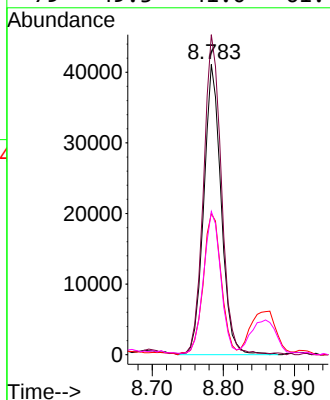
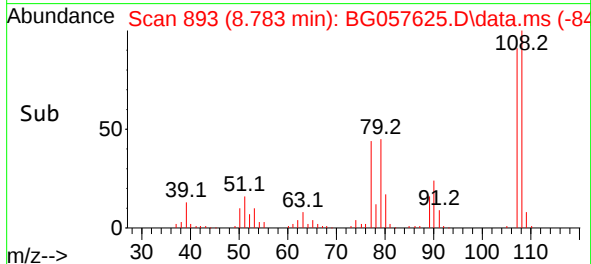
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



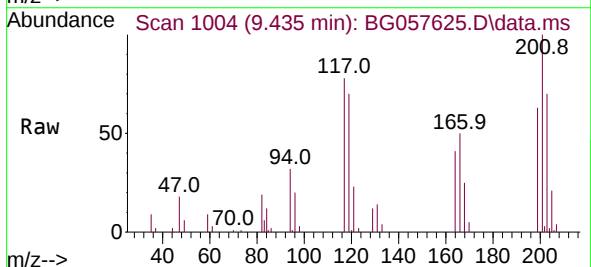
Tgt Ion:107 Resp: 69818
Ion Ratio Lower Upper
107 100
108 110.2 87.7 131.5
77 48.6 43.0 64.6
79 49.3 41.0 61.4

Manual Integrations
APPROVED

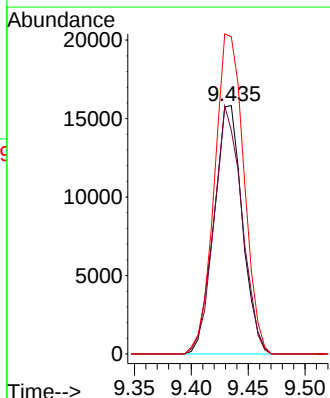
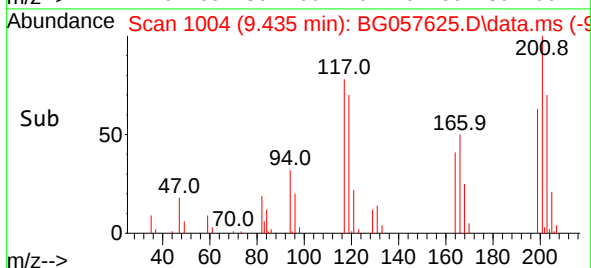
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

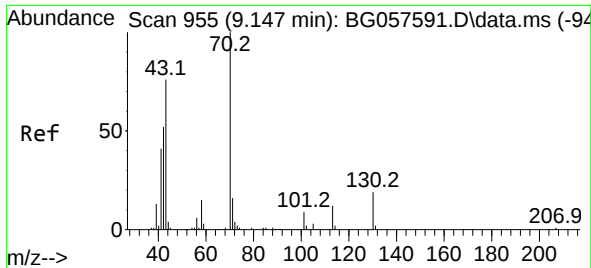


#18
Hexachloroethane
Concen: 45.882 ng
RT: 9.435 min Scan# 1004
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:117 Resp: 27442
Ion Ratio Lower Upper
117 100
119 89.9 80.6 121.0
201 127.8 108.8 163.2





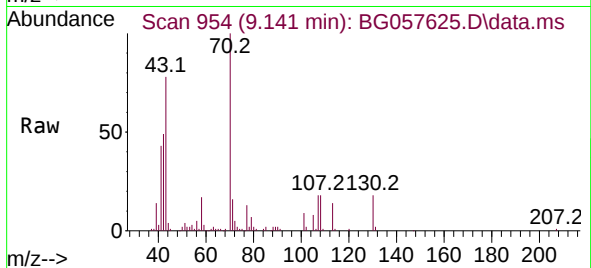
#19
n-Nitroso-di-n-propylamine
Concen: 41.187 ng
RT: 9.141 min Scan# 91
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS



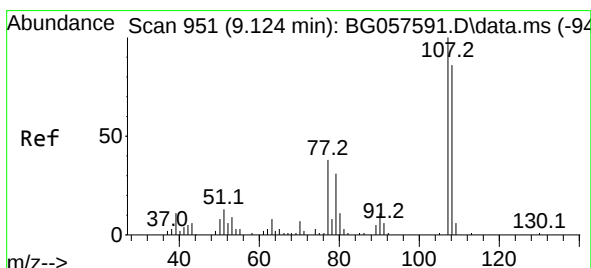
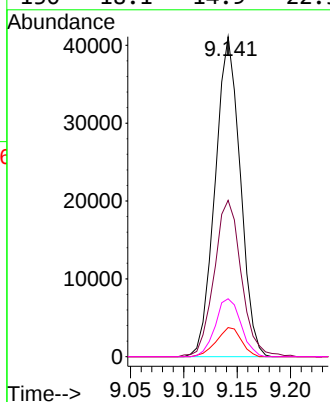
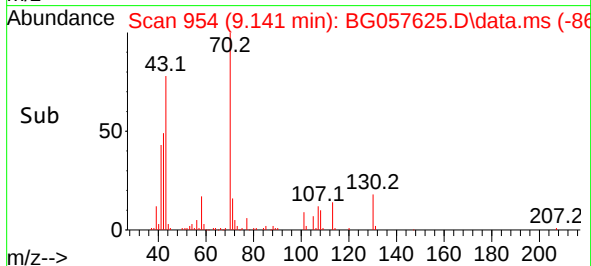
Tgt Ion: 70 Resp: 6722
Ion Ratio Lower Upper
70 100
42 48.8 41.4 62.0
101 9.1 6.9 10.3
130 18.1 14.9 22.3

Manual Integrations

APPROVED

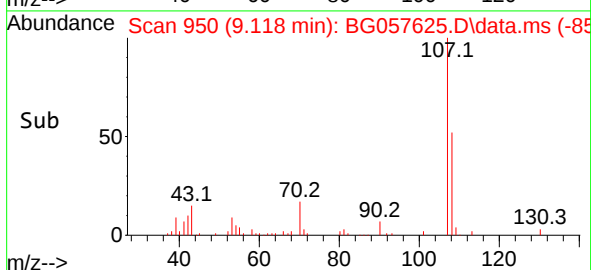
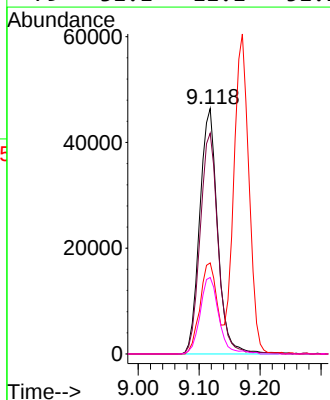
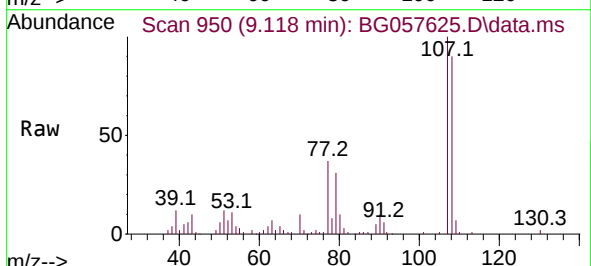
Reviewed By :Yogesh Patel 06/01/2023

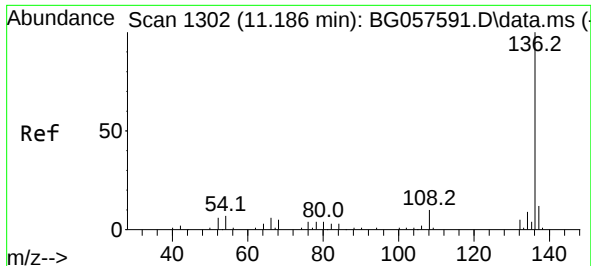
Supervised By :mohammad ahmed 06/01/2023



#20
3+4-Methylphenols
Concen: 41.419 ng
RT: 9.118 min Scan# 950
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:107 Resp: 94939
Ion Ratio Lower Upper
107 100
108 90.0 65.6 105.6
77 37.1 18.0 58.0
79 31.1 11.1 51.1





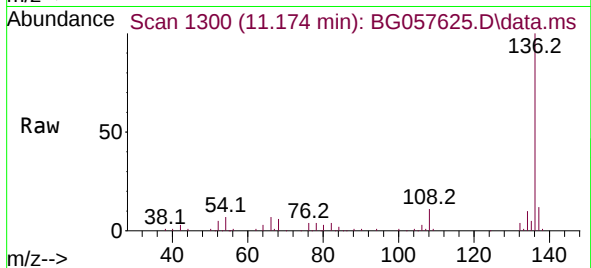
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.174 min Scan# 1111
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS



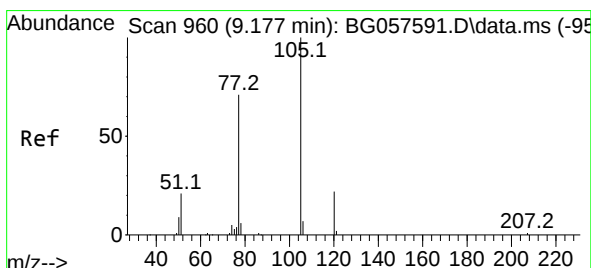
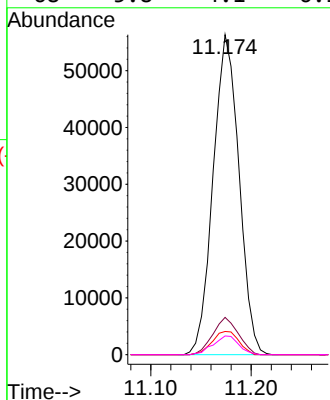
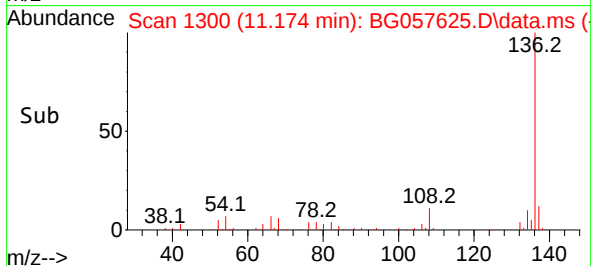
Tgt Ion:136 Resp: 100840
Ion Ratio Lower Upper
136 100
137 11.6 9.8 14.8
54 7.3 5.8 8.6
68 5.8 4.1 6.1

Manual Integrations

APPROVED

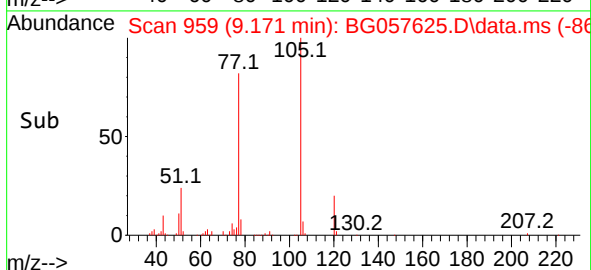
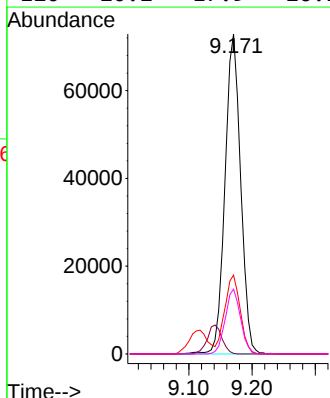
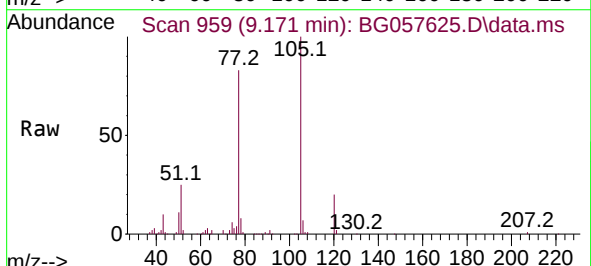
Reviewed By :Yogesh Patel 06/01/2023

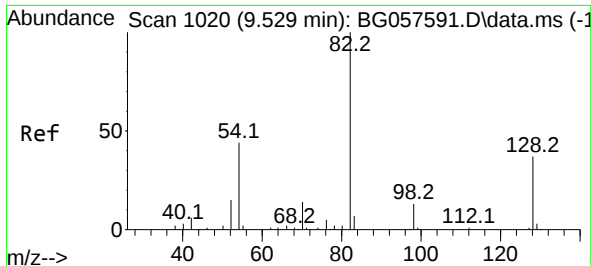
Supervised By :mohammad ahmed 06/01/2023



#22
Acetophenone
Concen: 46.371 ng
RT: 9.171 min Scan# 959
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:105 Resp: 125044
Ion Ratio Lower Upper
105 100
71 0.2 0.0 0.0#
51 24.6 20.7 31.1
120 20.2 17.9 26.9





#23
Nitrobenzene-d5
Concen: 90.173 ng
RT: 9.523 min Scan# 1019
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

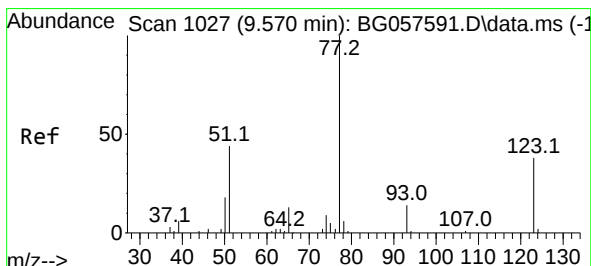
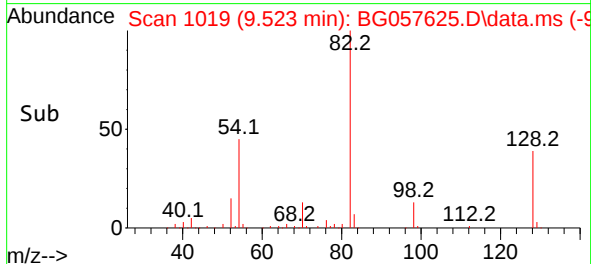
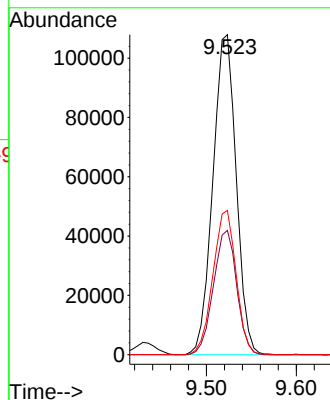
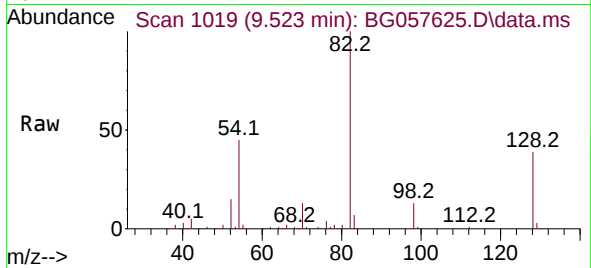
PNNL-RH-524-1MS

Tgt Ion: 82 Resp: 19453
Ion Ratio Lower Upper
82 100
128 38.9 30.0 45.0
54 45.1 35.2 52.8

Manual Integrations

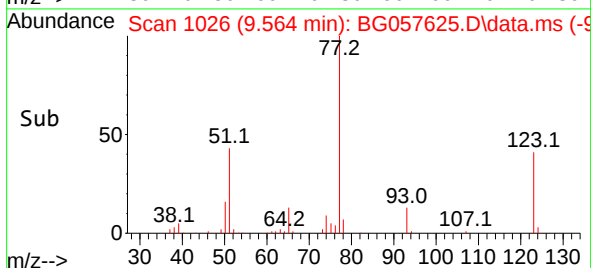
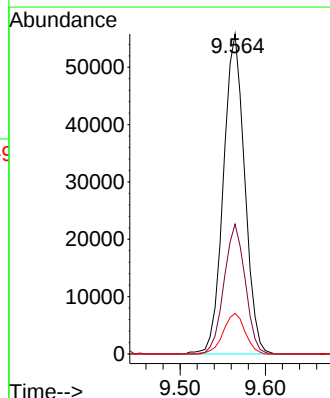
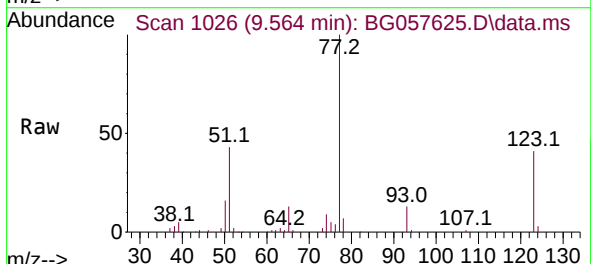
APPROVED

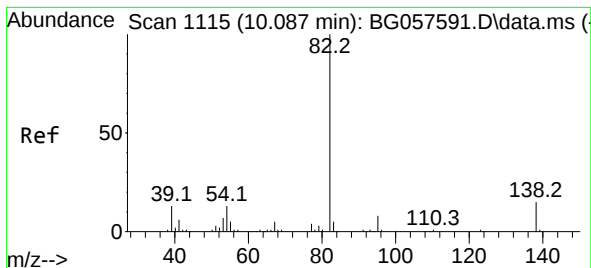
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#24
Nitrobenzene
Concen: 44.216 ng
RT: 9.564 min Scan# 1026
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion: 77 Resp: 96825
Ion Ratio Lower Upper
77 100
123 40.5 30.6 46.0
65 12.7 10.2 15.4





#25

Isophorone

Concen: 42.913 ng

RT: 10.081 min Scan# 1114

Delta R.T. 0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion: 82 Resp: 18196

Ion Ratio Lower Upper

82 100

95 7.8 6.3 9.5

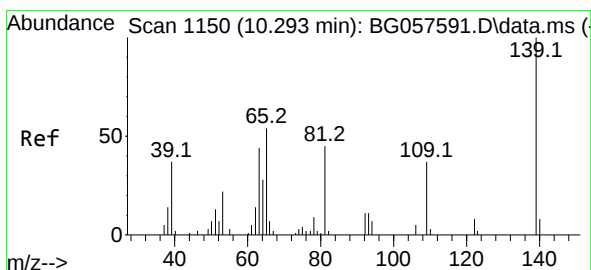
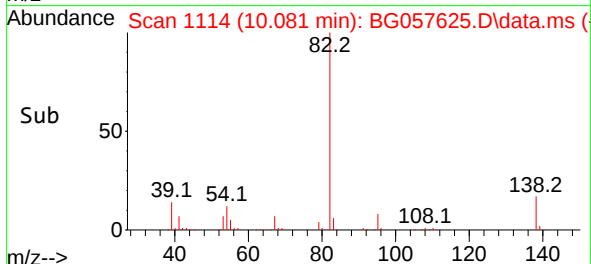
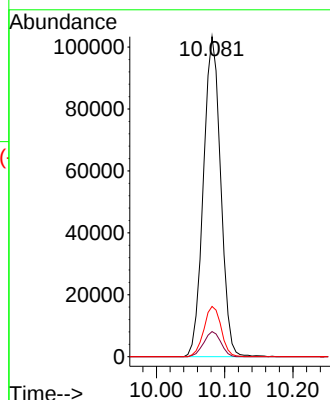
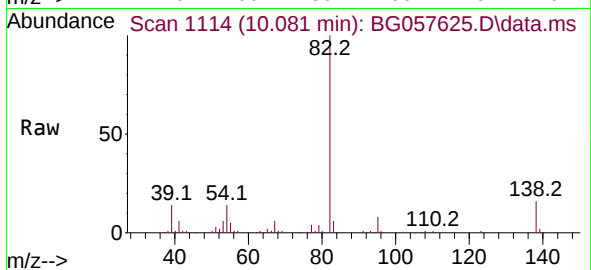
138 15.7 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#26

2-Nitrophenol

Concen: 47.470 ng

RT: 10.281 min Scan# 1148

Delta R.T. -0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

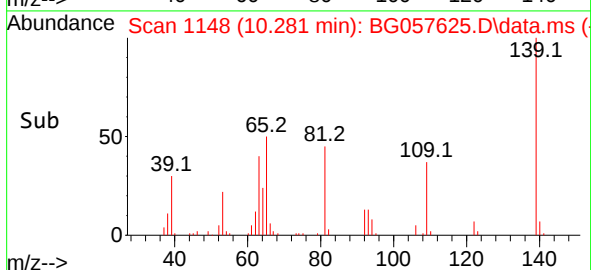
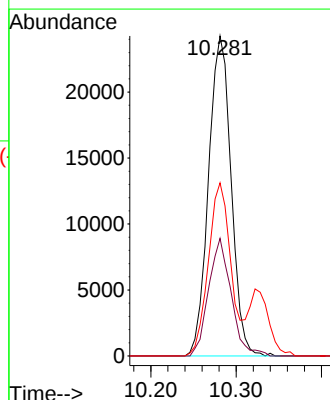
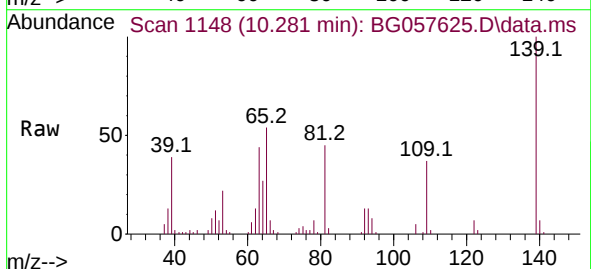
Tgt Ion:139 Resp: 44571

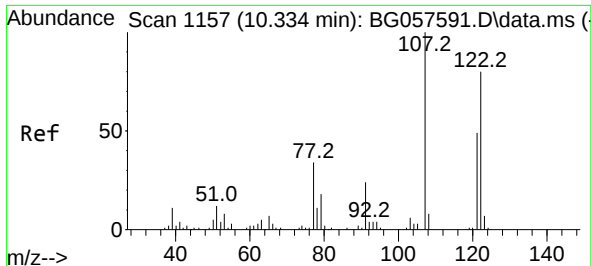
Ion Ratio Lower Upper

139 100

109 36.7 29.5 44.3

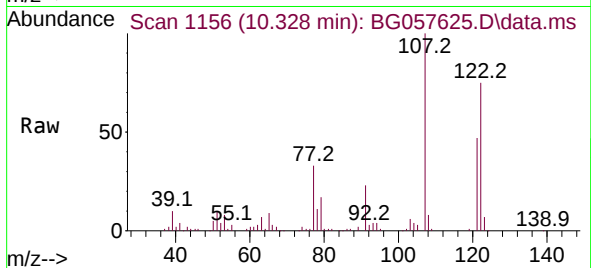
65 54.1 43.0 64.6





#27
2,4-Dimethylphenol
Concen: 49.065 ng
RT: 10.328 min Scan# 1156
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

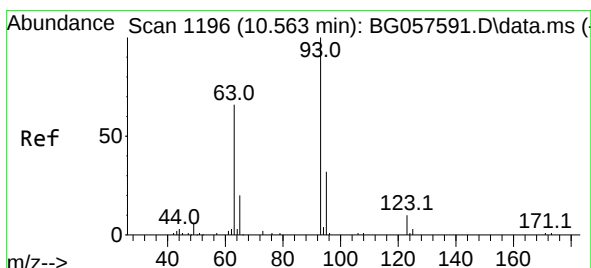
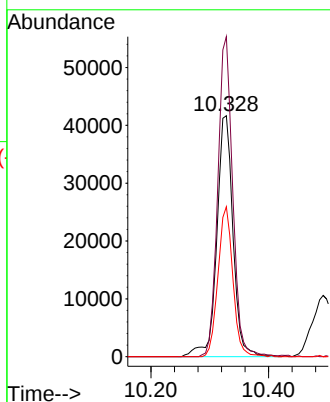
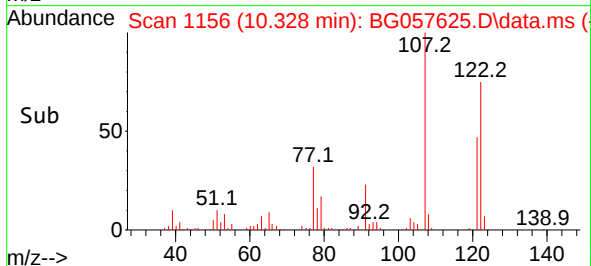
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



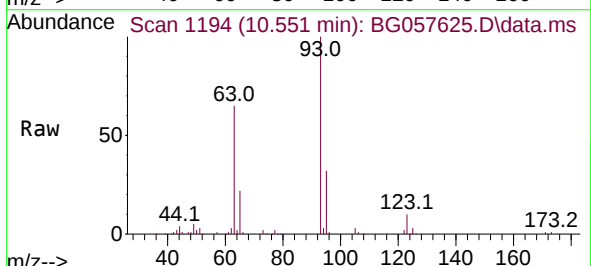
Tgt Ion:122 Resp: 7964
Ion Ratio Lower Upper
122 100
107 132.8 99.4 149.2
121 62.2 48.4 72.6

Manual Integrations
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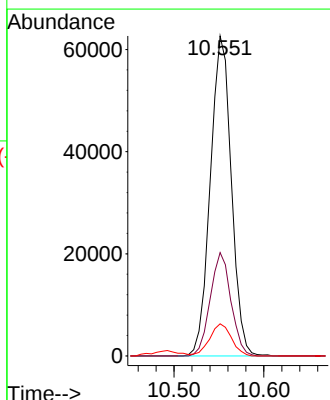
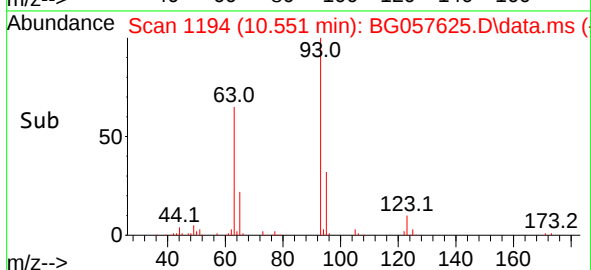
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

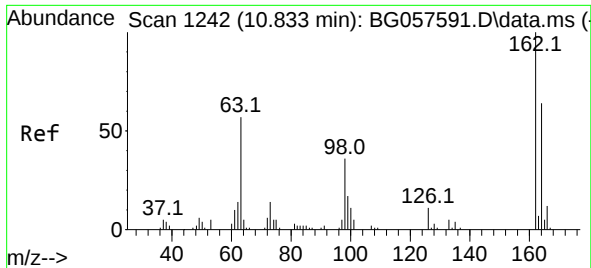


#28
bis(2-Chloroethoxy)methane
Concen: 46.199 ng
RT: 10.551 min Scan# 1194
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion: 93 Resp: 101580
Ion Ratio Lower Upper
93 100
95 32.3 25.3 37.9
123 10.0 8.2 12.4





#29
2,4-Dichlorophenol
Concen: 49.071 ng
RT: 10.827 min Scan# 1241
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

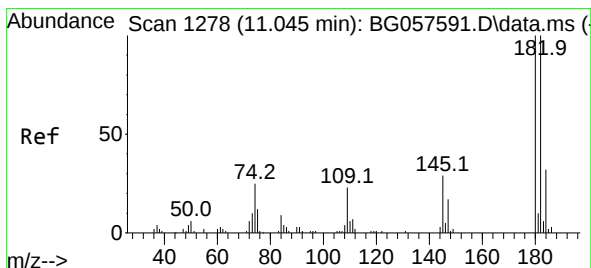
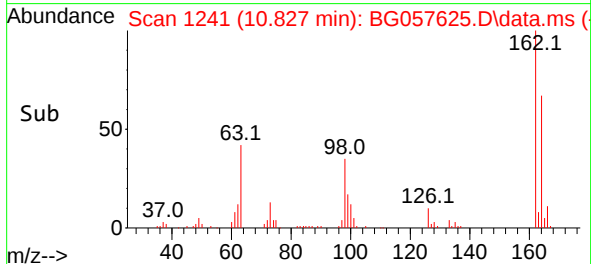
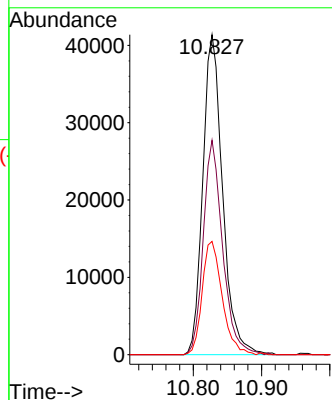
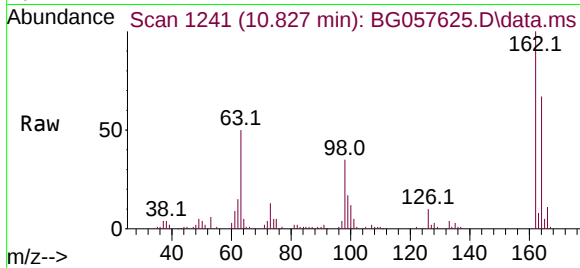
ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion:162 Resp: 8366
Ion Ratio Lower Upper
162 100
164 67.0 44.1 84.1
98 35.4 16.3 56.3

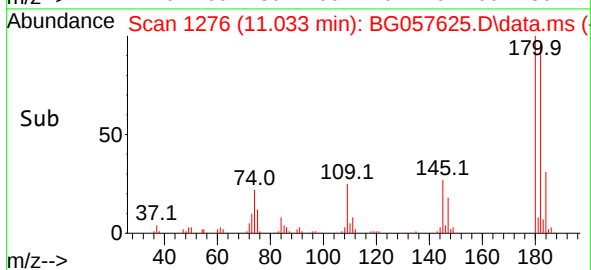
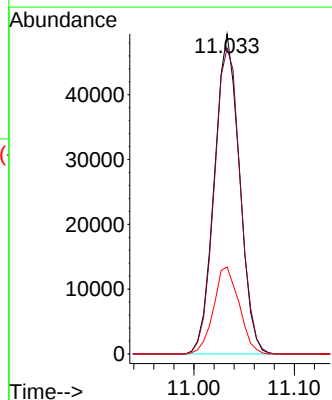
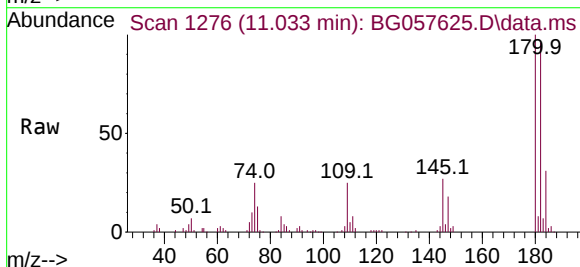
Manual Integrations
APPROVED

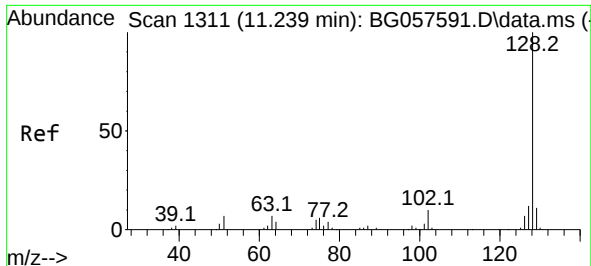
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#30
1,2,4-Trichlorobenzene
Concen: 46.037 ng
RT: 11.033 min Scan# 1276
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

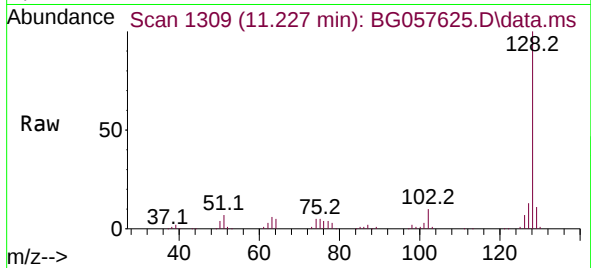
Tgt Ion:180 Resp: 85543
Ion Ratio Lower Upper
180 100
182 95.5 80.2 120.2
145 27.2 23.1 34.7





#31
Naphthalene
Concen: 43.905 ng
RT: 11.227 min Scan# 11
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

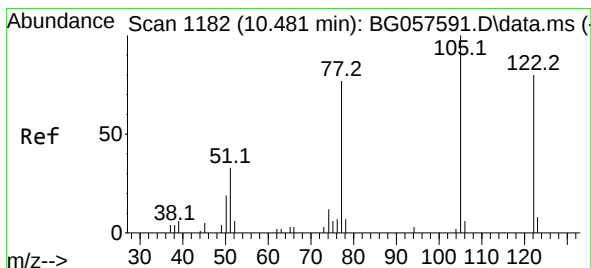
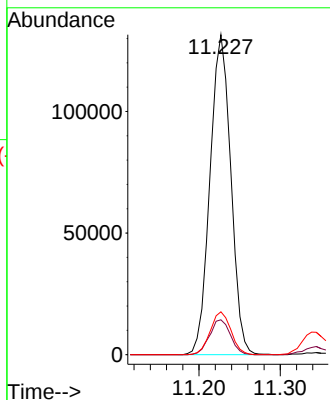
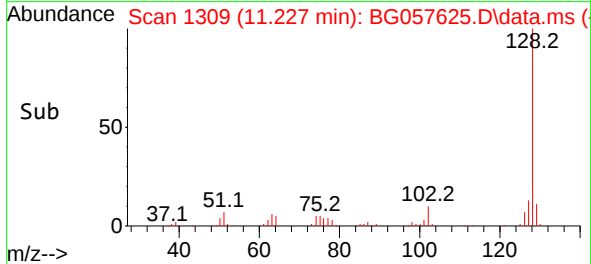
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



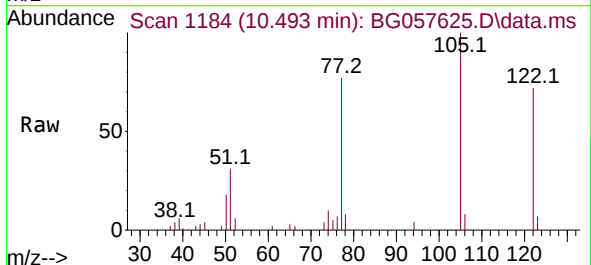
Tgt Ion:128 Resp: 23421
Ion Ratio Lower Upper
128 100
129 10.9 8.7 13.1
127 13.4 9.8 14.8

Manual Integrations
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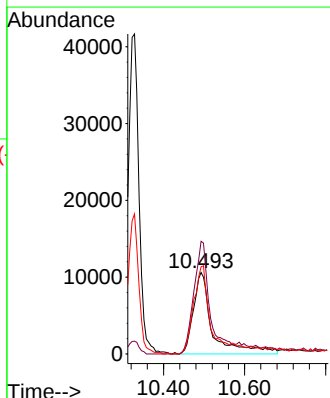
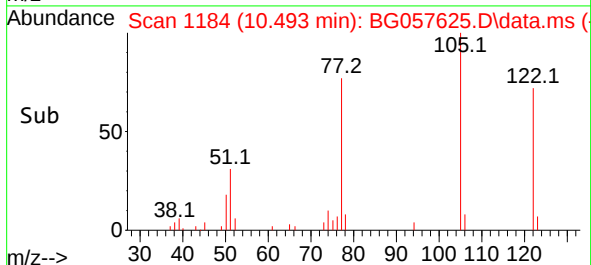
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

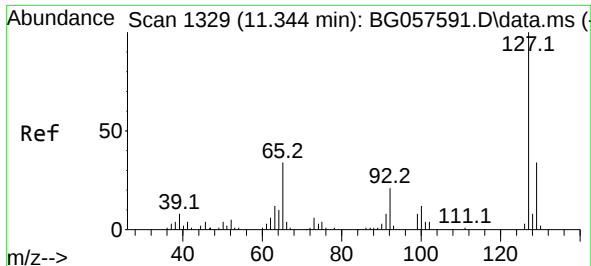


#32
Benzoic acid
Concen: 38.322 ng m
RT: 10.493 min Scan# 1184
Delta R.T. 0.015 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



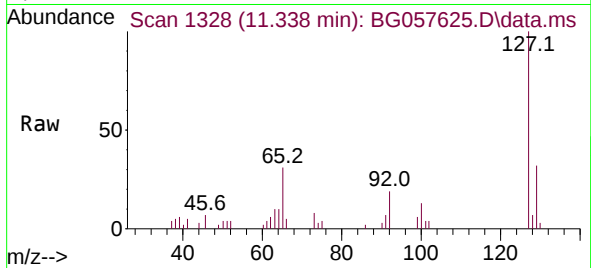
Tgt Ion:122 Resp: 34799
Ion Ratio Lower Upper
122 100
105 138.3 104.8 144.8
77 107.0 75.8 115.8





#33
4-Chloroaniline
Concen: 8.873 ng
RT: 11.338 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

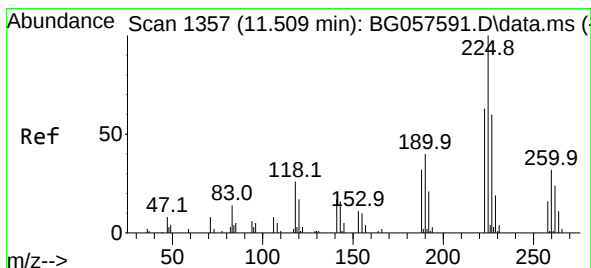
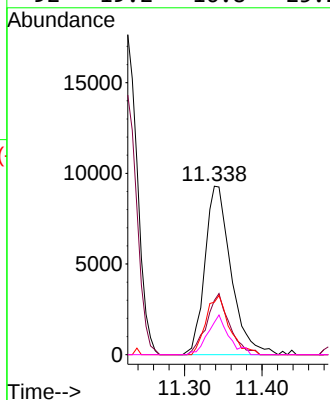
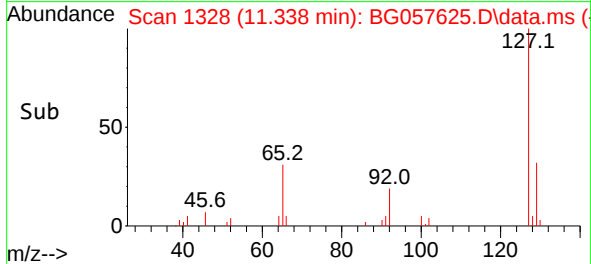
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



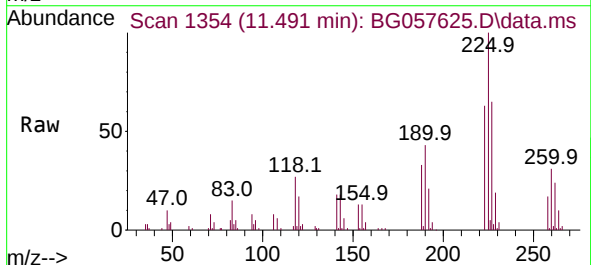
Tgt Ion:127 Resp: 2176
Ion Ratio Lower Upper
127 100
129 32.2 26.9 40.3
65 31.2 27.3 40.9
92 19.2 16.8 25.2

Manual Integrations
APPROVED

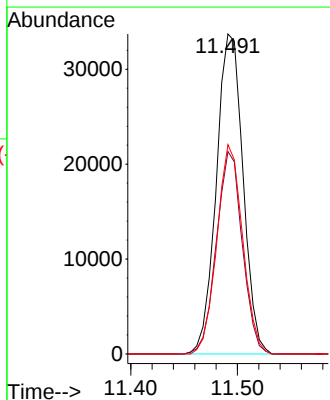
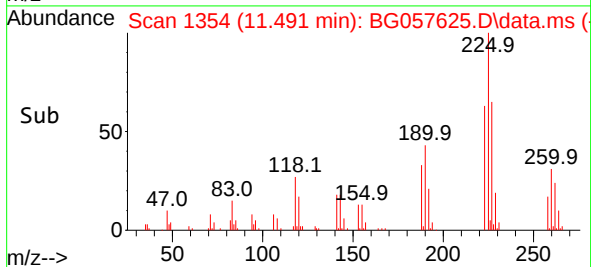
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

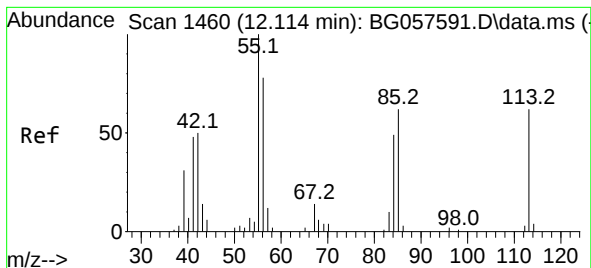


#34
Hexachlorobutadiene
Concen: 45.583 ng
RT: 11.491 min Scan# 1354
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



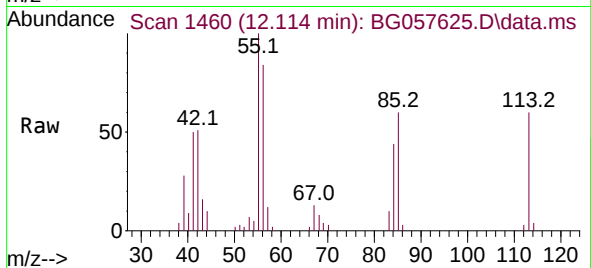
Tgt Ion:225 Resp: 58584
Ion Ratio Lower Upper
225 100
223 63.2 50.1 75.1
227 65.4 47.9 71.9





#35
Caprolactam
Concen: 37.048 ng m
RT: 12.114 min Scan# 1460
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

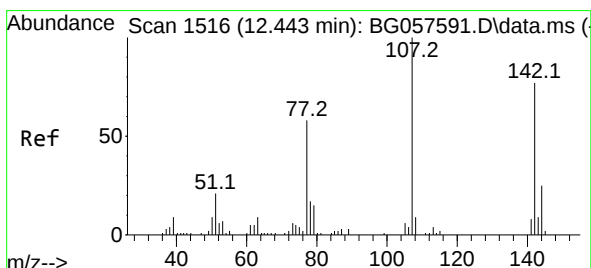
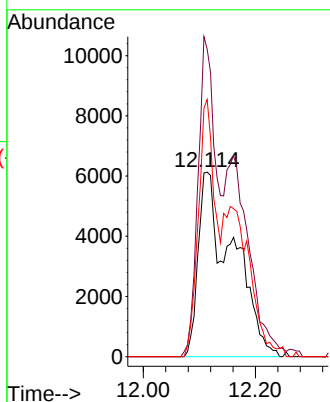
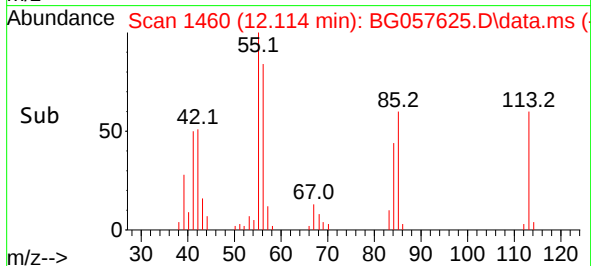
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:113 Resp: 2618
Ion Ratio Lower Upper
113 100
55 166.7 140.9 180.9
56 139.4 105.9 145.9

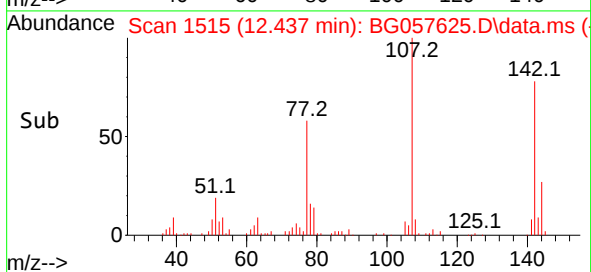
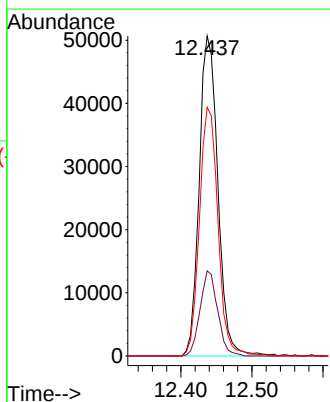
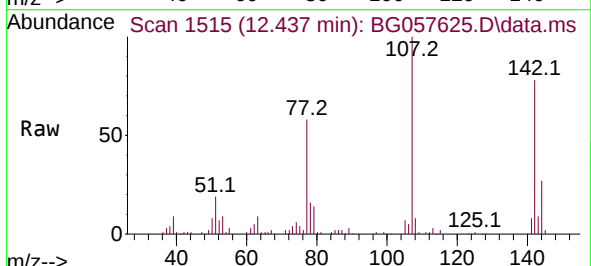
Manual Integrations
APPROVED

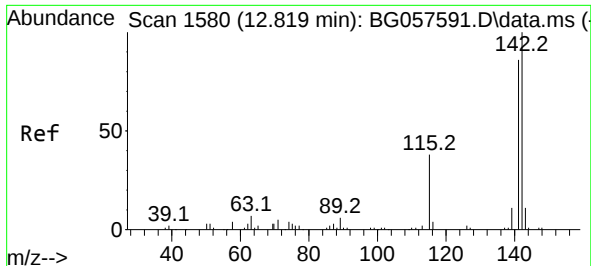
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#36
4-Chloro-3-methylphenol
Concen: 45.918 ng
RT: 12.437 min Scan# 1515
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:107 Resp: 92668
Ion Ratio Lower Upper
107 100
144 26.6 19.7 29.5
142 77.7 61.6 92.4





#37
2-Methylnaphthalene
Concen: 41.672 ng
RT: 12.807 min Scan# 11
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

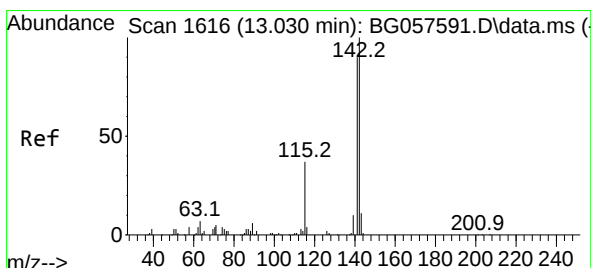
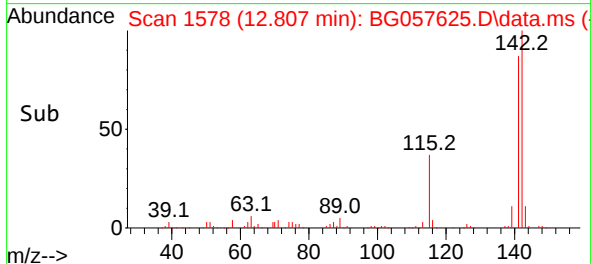
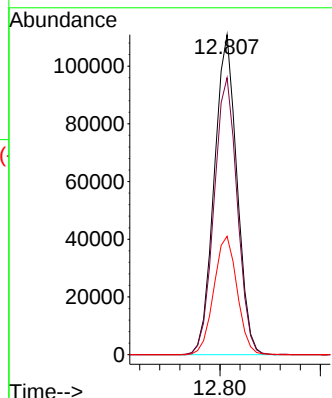
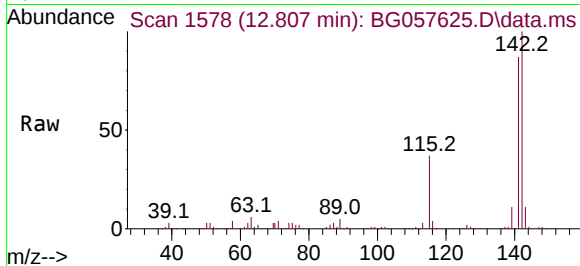
ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion:142 Resp: 174478
Ion Ratio Lower Upper
142 100
141 86.5 68.6 103.0
115 37.0 30.4 45.6

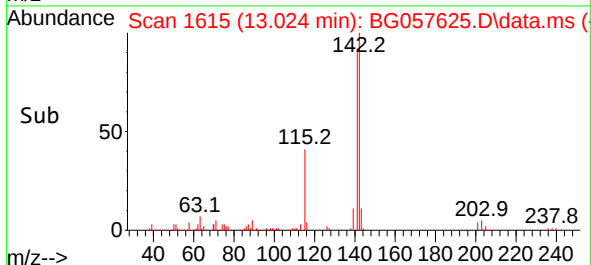
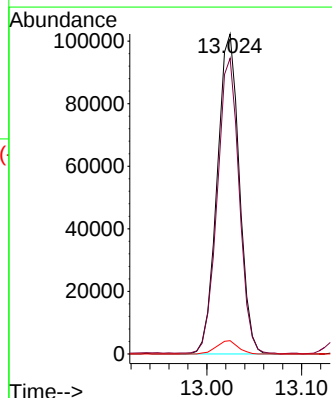
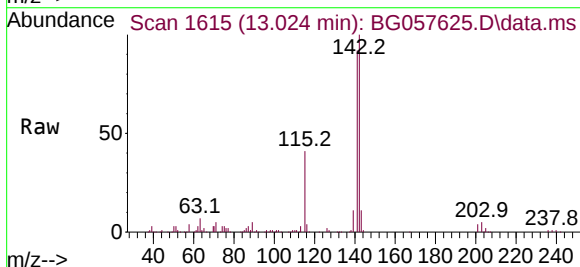
Manual Integrations
APPROVED

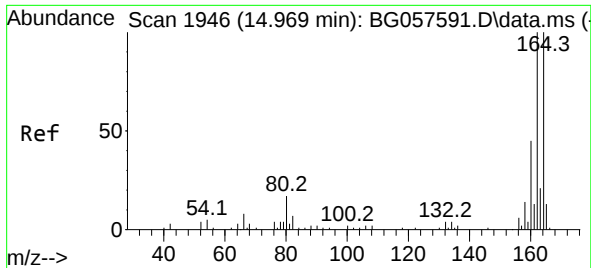
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#38
1-Methylnaphthalene
Concen: 41.488 ng
RT: 13.024 min Scan# 1615
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

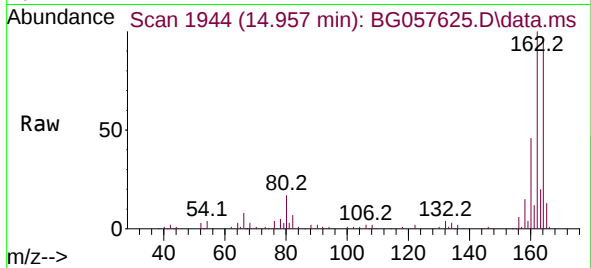
Tgt Ion:142 Resp: 165768
Ion Ratio Lower Upper
142 100
141 92.4 72.1 108.1
116 4.2 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.957 min Scan# 1944
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

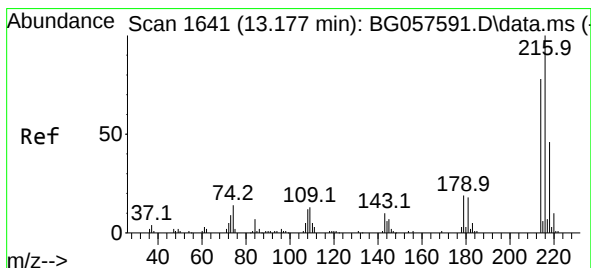
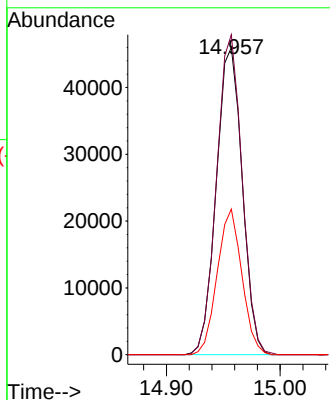
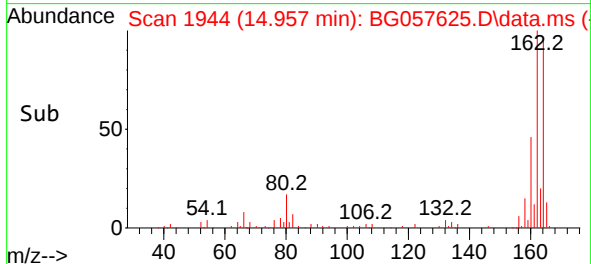
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:164 Resp: 72844
Ion Ratio Lower Upper
164 100
162 104.2 80.1 120.1
160 47.4 35.9 53.9

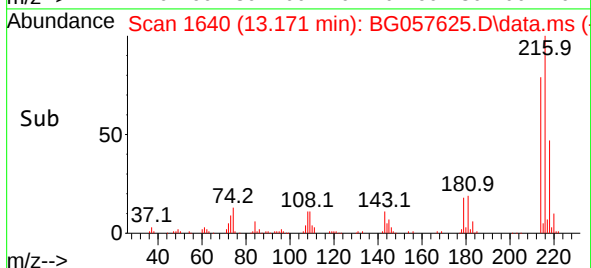
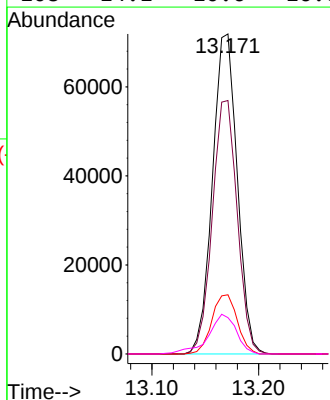
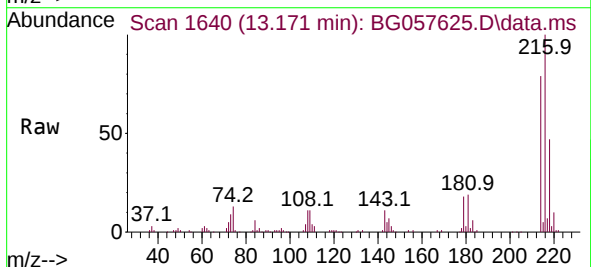
Manual Integrations
APPROVED

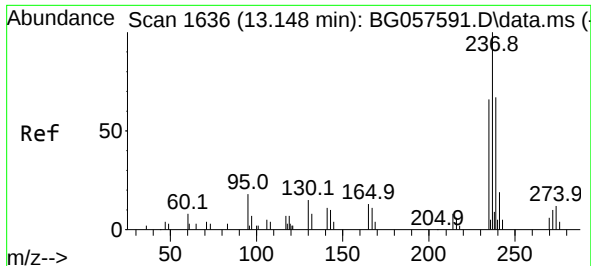
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.442 ng
RT: 13.171 min Scan# 1640
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

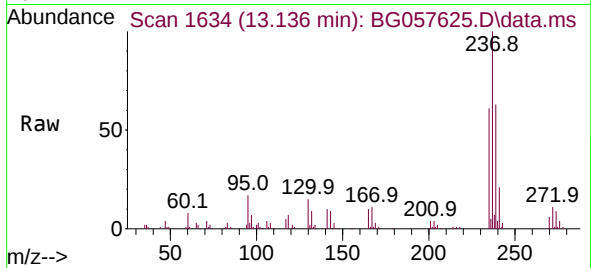
Tgt Ion:216 Resp: 115823
Ion Ratio Lower Upper
216 100
214 79.5 63.0 94.6
179 19.0 15.0 22.6
108 14.1 10.6 16.0





#41
Hexachlorocyclopentadiene
Concen: 97.057 ng
RT: 13.136 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

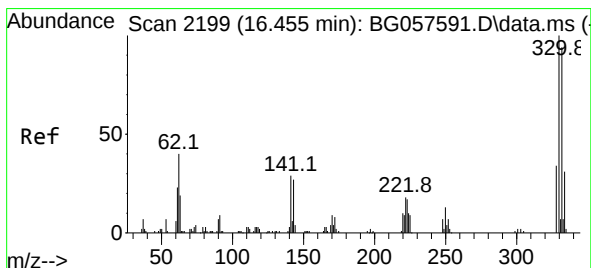
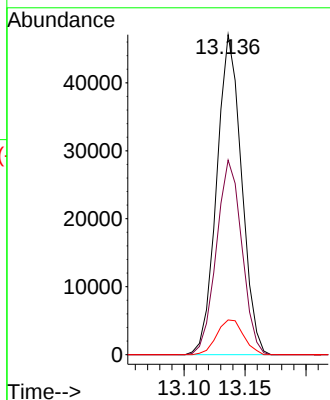
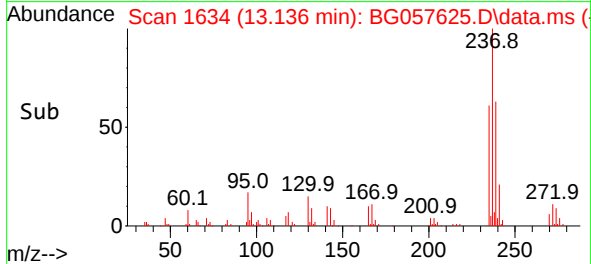
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:237 Resp: 6679
Ion Ratio Lower Upper
237 100
235 60.8 45.7 85.7
272 10.9 0.0 30.1

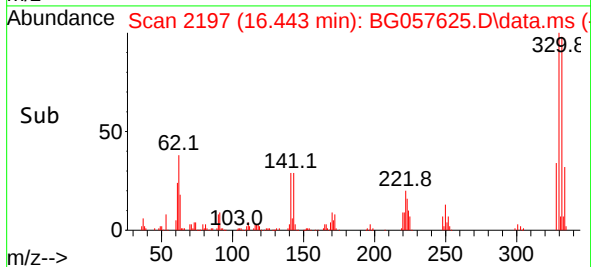
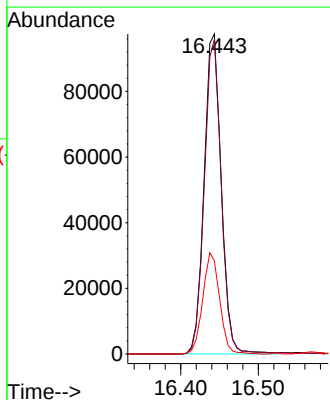
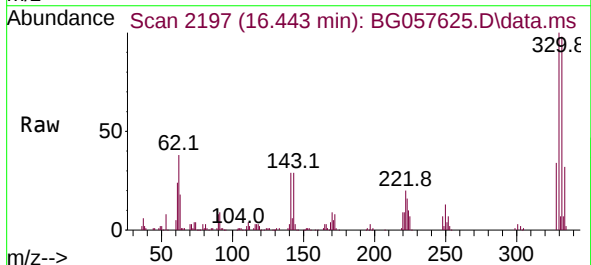
Manual Integrations
APPROVED

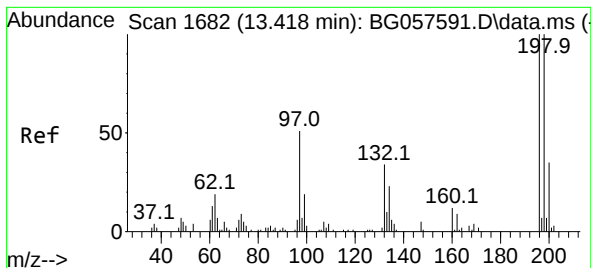
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#42
2,4,6-Tribromophenol
Concen: 128.583 ng
RT: 16.443 min Scan# 2197
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:330 Resp: 149960
Ion Ratio Lower Upper
330 100
332 96.9 77.3 115.9
141 31.0 24.6 37.0





#43

2,4,6-Trichlorophenol

Concen: 50.882 ng

RT: 13.406 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

Tgt Ion:196 Resp: 76590

Ion Ratio Lower Upper

196 100

198 95.7 79.6 119.4

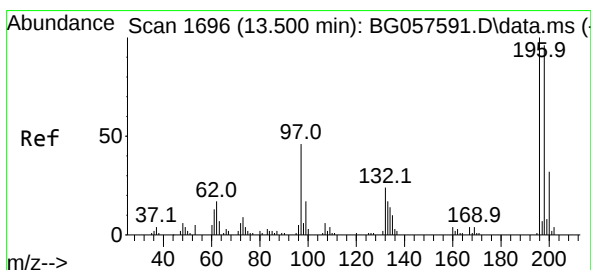
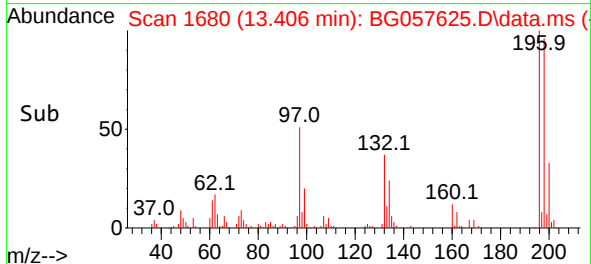
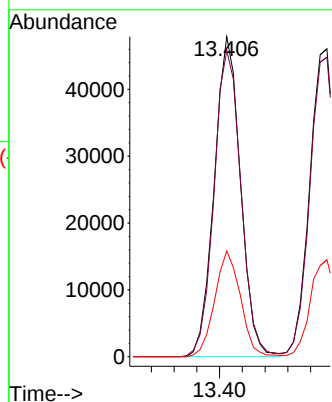
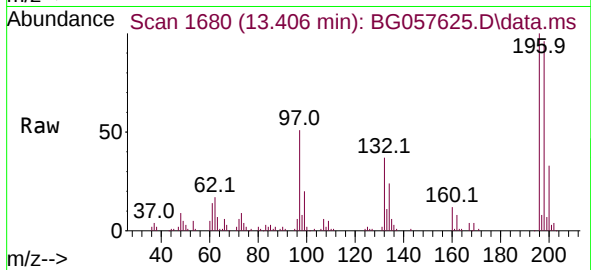
200 33.0 28.2 42.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#44

2,4,5-Trichlorophenol

Concen: 45.190 ng

RT: 13.494 min Scan# 1695

Delta R.T. 0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion:196 Resp: 81015

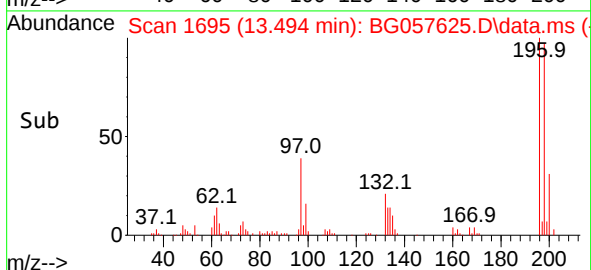
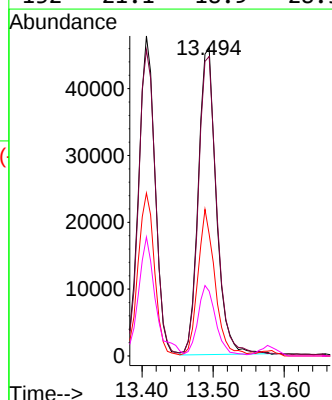
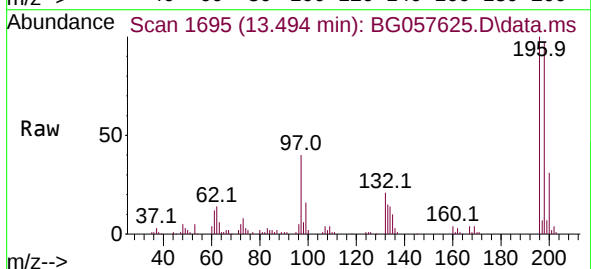
Ion Ratio Lower Upper

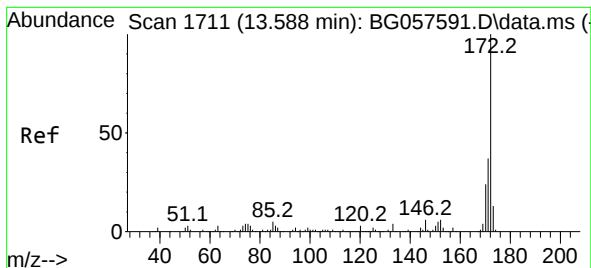
196 100

198 97.3 76.9 115.3

97 39.5 36.6 55.0

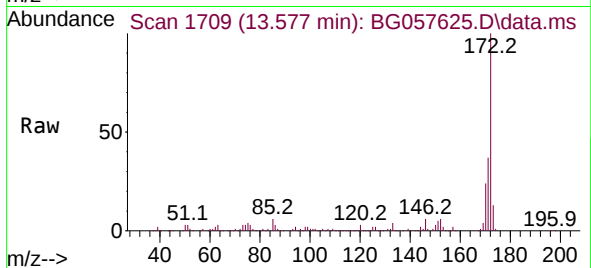
132 21.1 18.9 28.3





#45
2-Fluorobiphenyl
Concen: 89.717 ng
RT: 13.577 min Scan# 1709
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

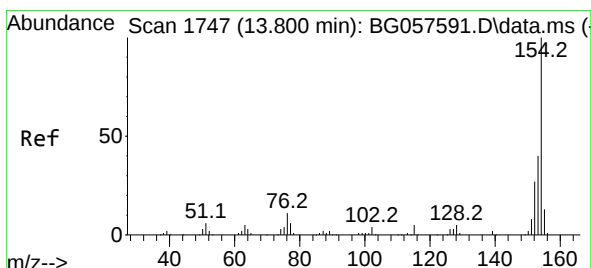
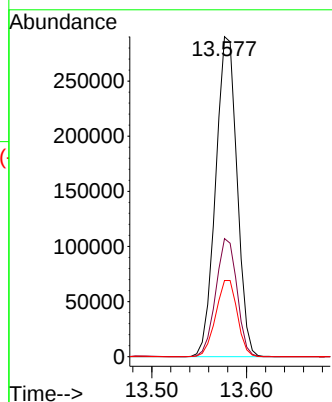
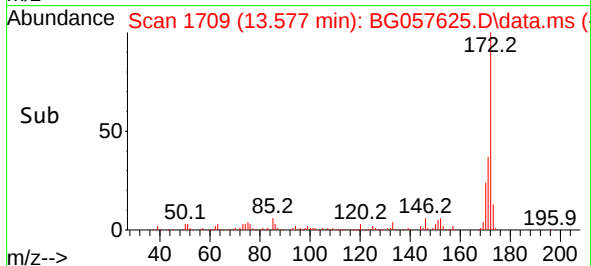
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



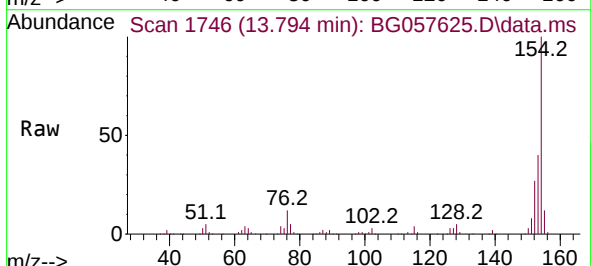
Tgt Ion:172 Resp: 454752
Ion Ratio Lower Upper
172 100
171 36.9 29.2 43.8
170 23.8 19.0 28.4

Manual Integrations
APPROVED

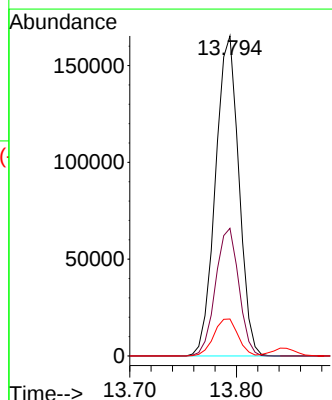
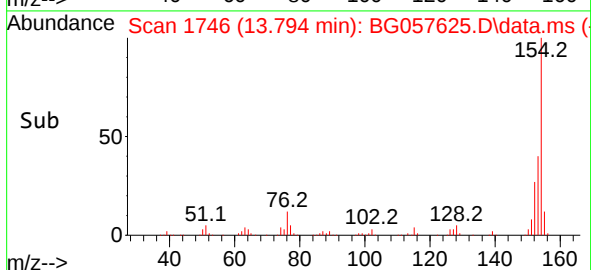
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

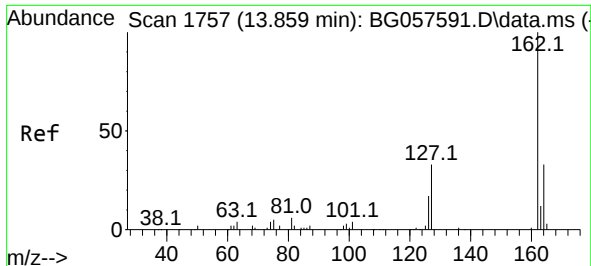


#46
1,1'-Biphenyl
Concen: 48.283 ng
RT: 13.794 min Scan# 1746
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



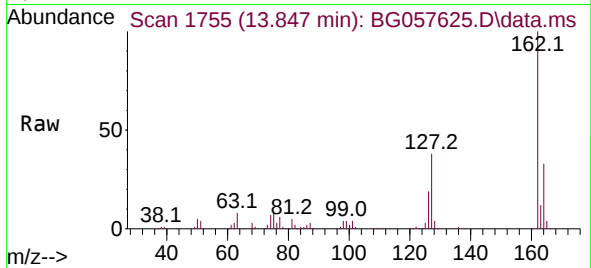
Tgt Ion:154 Resp: 251374
Ion Ratio Lower Upper
154 100
153 39.9 19.6 59.6
76 11.6 0.0 30.9





#47
2-Chloronaphthalene
Concen: 48.402 ng
RT: 13.847 min Scan# 1755
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

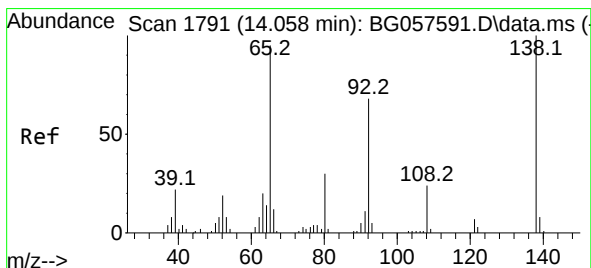
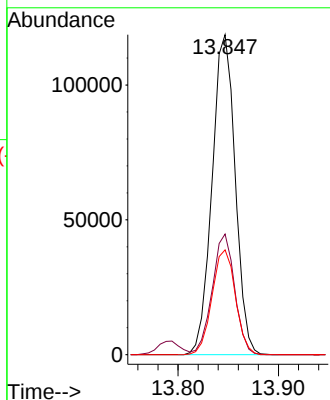
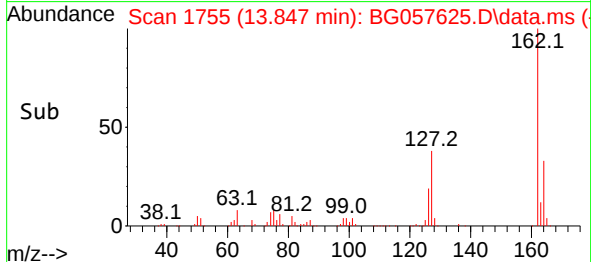
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:162 Resp: 189808
Ion Ratio Lower Upper
162 100
127 37.7 28.2 42.2
164 32.8 26.1 39.1

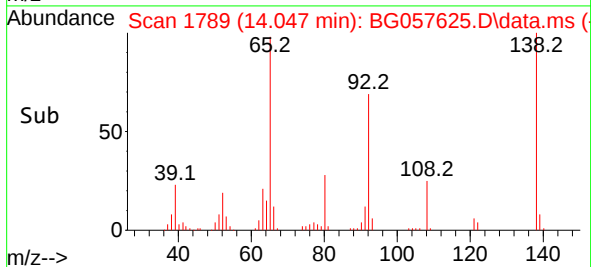
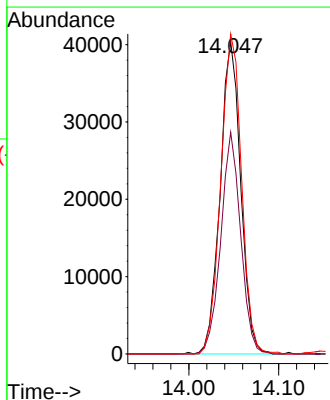
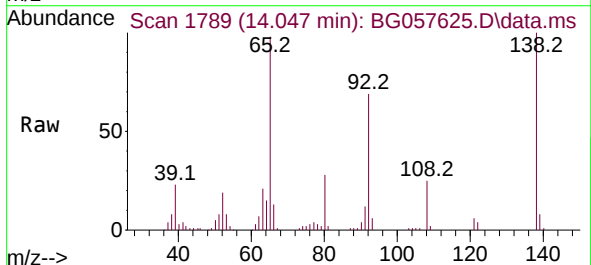
Manual Integrations
APPROVED

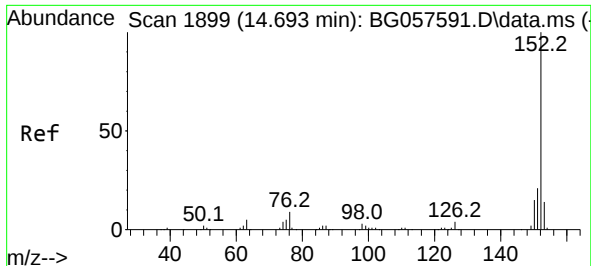
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#48
2-Nitroaniline
Concen: 46.684 ng
RT: 14.047 min Scan# 1789
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

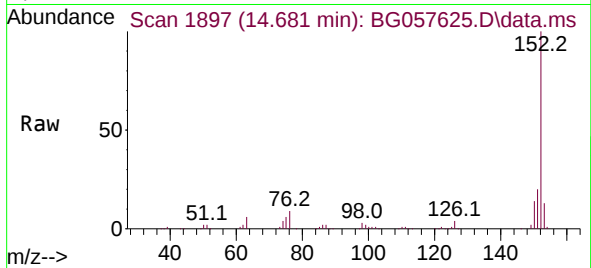
Tgt Ion: 65 Resp: 64126
Ion Ratio Lower Upper
65 100
92 71.0 57.3 85.9
138 102.4 84.6 127.0





#49
Acenaphthylene
Concen: 46.105 ng
RT: 14.681 min Scan# 1897
Delta R.T. -0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

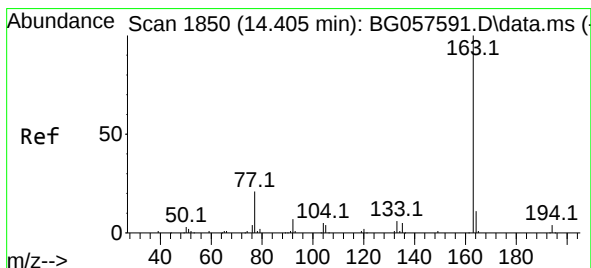
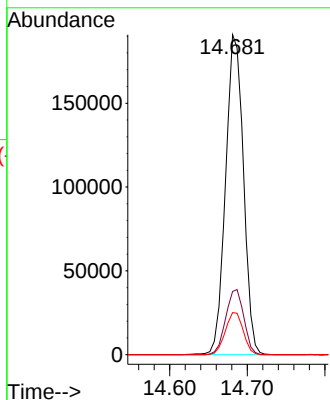
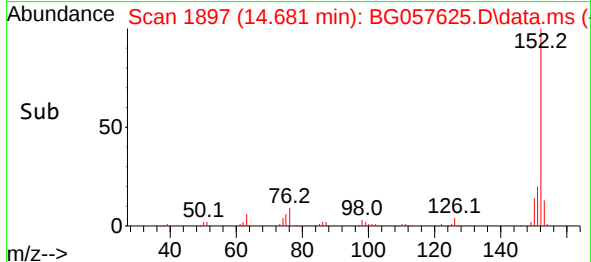
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



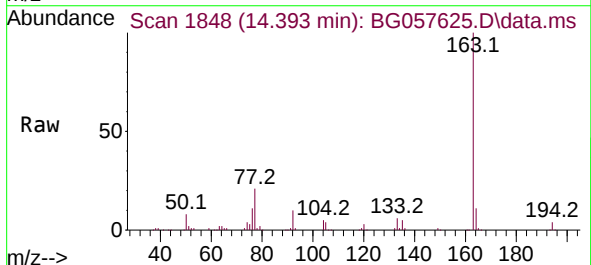
Tgt Ion:152 Resp: 306159
Ion Ratio Lower Upper
152 100
151 19.7 16.5 24.7
153 13.1 11.0 16.4

Manual Integrations
APPROVED

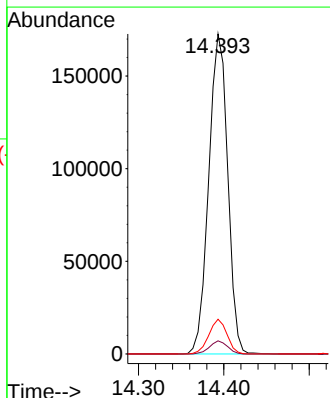
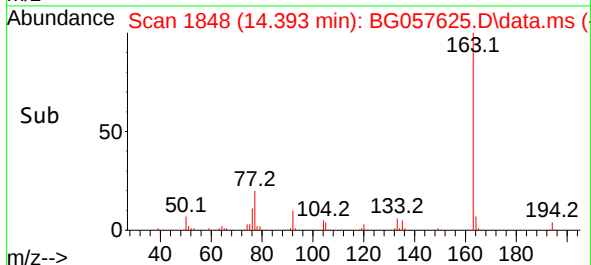
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

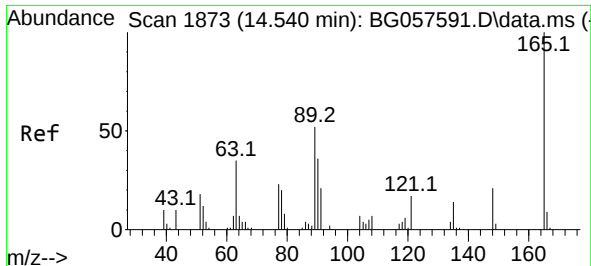


#50
Dimethylphthalate
Concen: 44.457 ng
RT: 14.393 min Scan# 1848
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



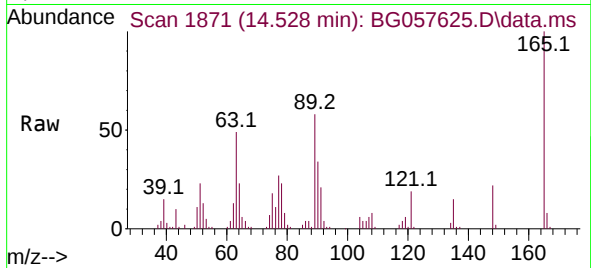
Tgt Ion:163 Resp: 266905
Ion Ratio Lower Upper
163 100
194 4.1 3.0 4.4
164 10.9 8.5 12.7





#51
2,6-Dinitrotoluene
Concen: 46.823 ng
RT: 14.528 min Scan# 1871
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

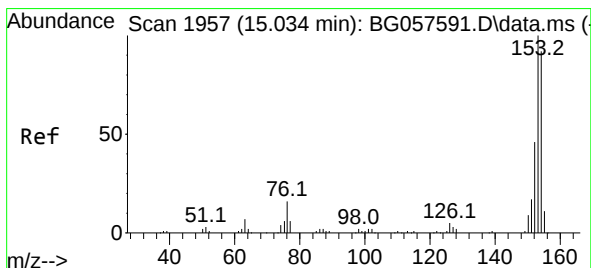
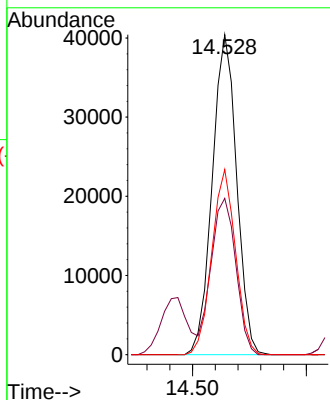
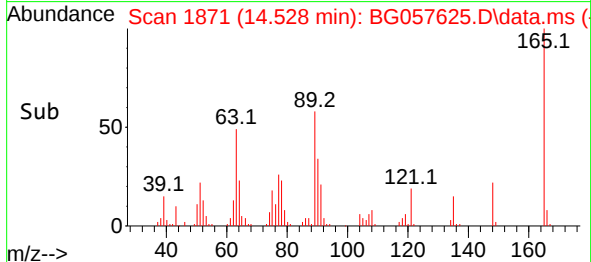
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:165 Resp: 60170
Ion Ratio Lower Upper
165 100
63 48.9 39.3 58.9
89 57.8 41.5 62.3

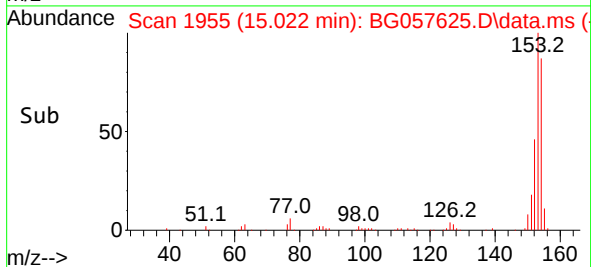
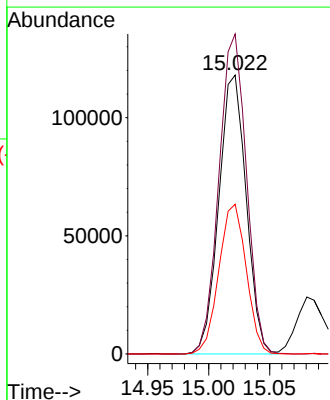
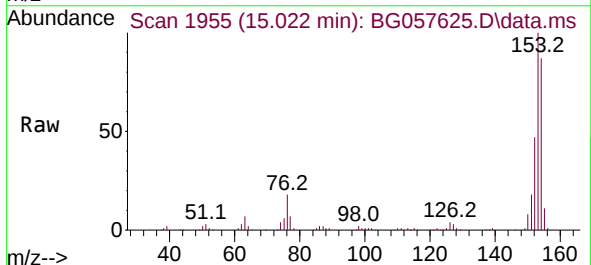
Manual Integrations
APPROVED

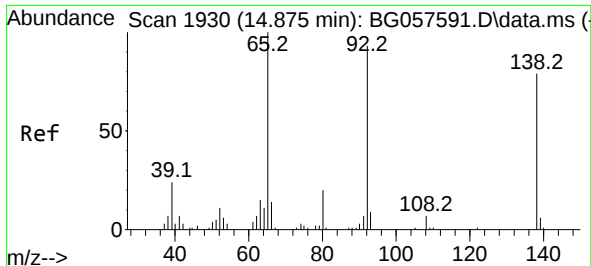
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#52
Acenaphthene
Concen: 45.472 ng
RT: 15.022 min Scan# 1955
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

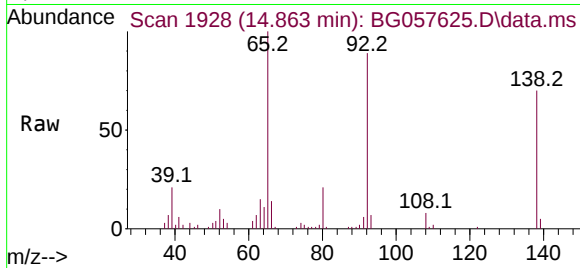
Tgt Ion:154 Resp: 184767
Ion Ratio Lower Upper
154 100
153 114.7 87.4 131.0
152 53.7 40.2 60.4





#53
3-Nitroaniline
Concen: 21.345 ng
RT: 14.863 min Scan# 1930
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

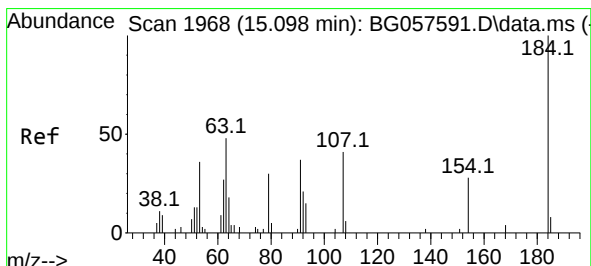
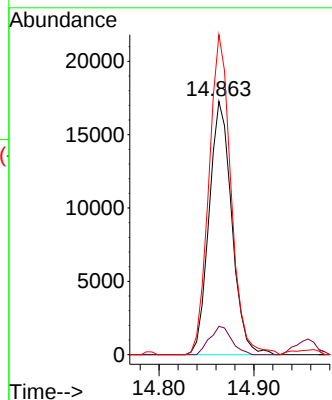
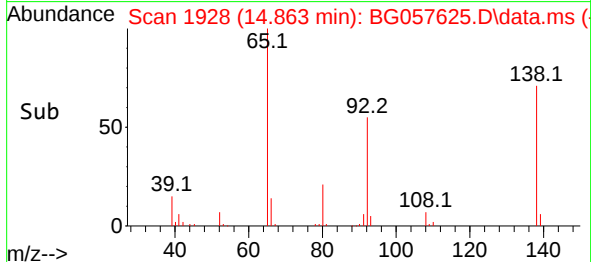
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:138 Resp: 2861
Ion Ratio Lower Upper
138 100
108 11.2 7.1 10.7
92 126.3 94.9 142.3

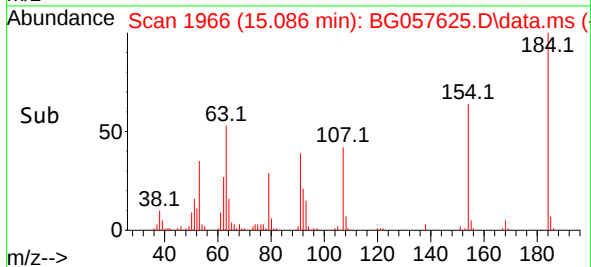
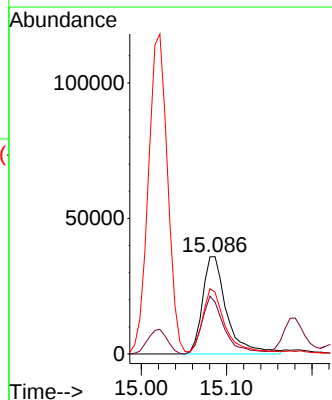
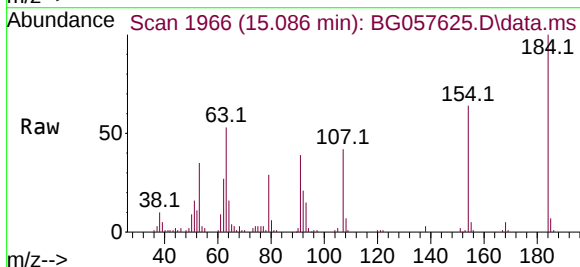
Manual Integrations
APPROVED

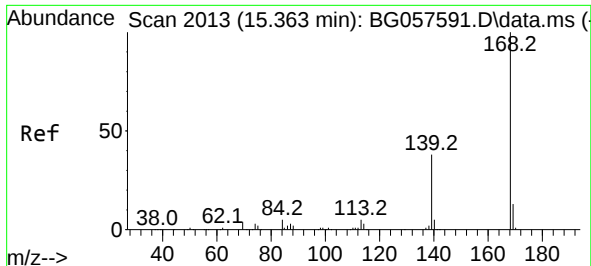
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#54
2,4-Dinitrophenol
Concen: 90.080 ng
RT: 15.086 min Scan# 1966
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

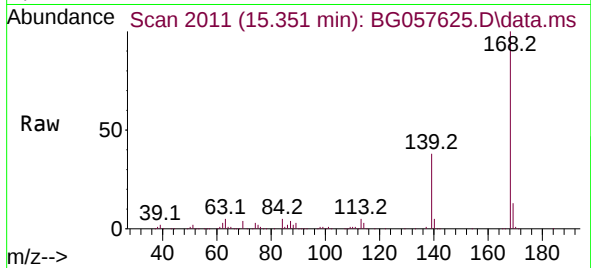
Tgt Ion:184 Resp: 70602
Ion Ratio Lower Upper
184 100
63 53.3 41.4 62.2
154 63.5 52.5 78.7





#55
Dibenzenofuran
Concen: 44.763 ng
RT: 15.351 min Scan# 2013
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

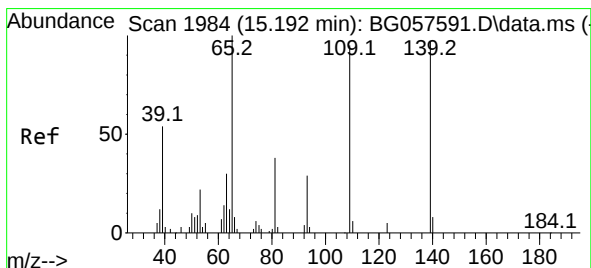
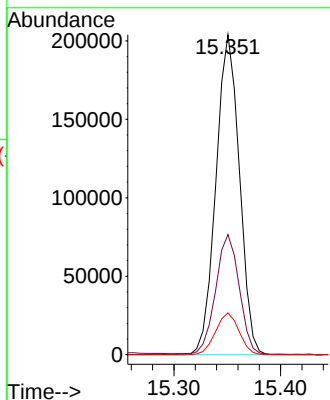
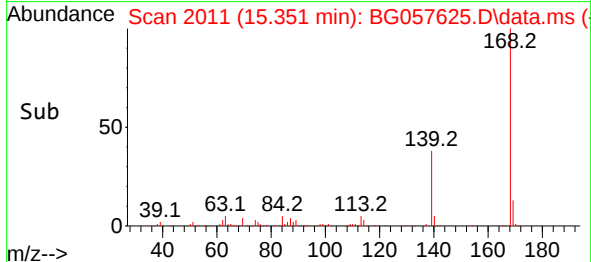
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



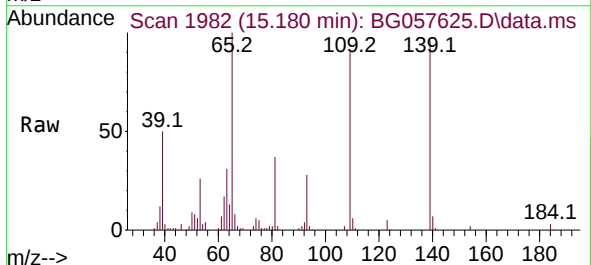
Tgt Ion:168 Resp: 310790
Ion Ratio Lower Upper
168 100
139 37.6 30.6 46.0
169 13.1 10.6 16.0

Manual Integrations
APPROVED

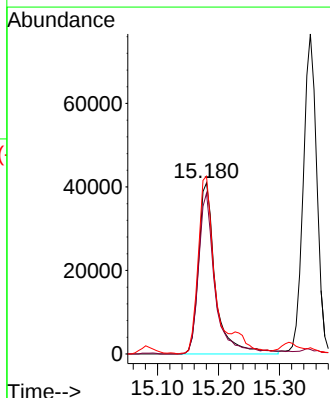
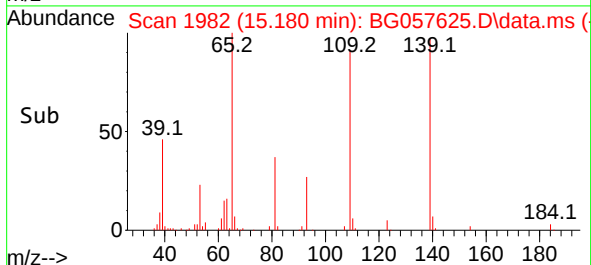
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

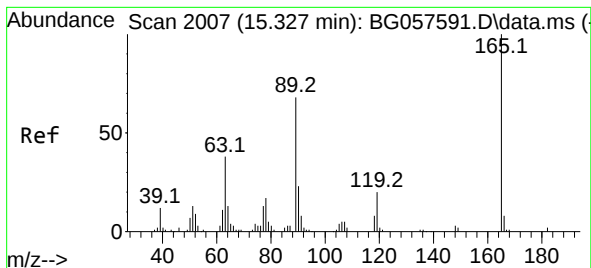


#56
4-Nitrophenol
Concen: 87.941 ng
RT: 15.180 min Scan# 1982
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:139 Resp: 78542
Ion Ratio Lower Upper
139 100
109 94.0 78.2 118.2
65 103.9 83.2 123.2





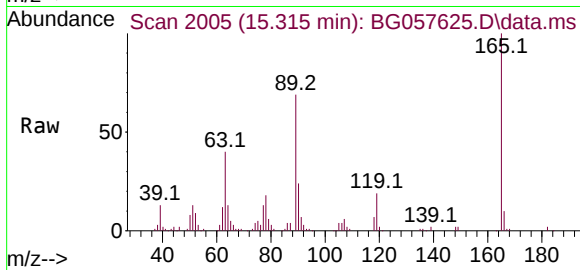
#57
2,4-Dinitrotoluene
Concen: 44.869 ng
RT: 15.315 min Scan# 2005
Delta R.T. -0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

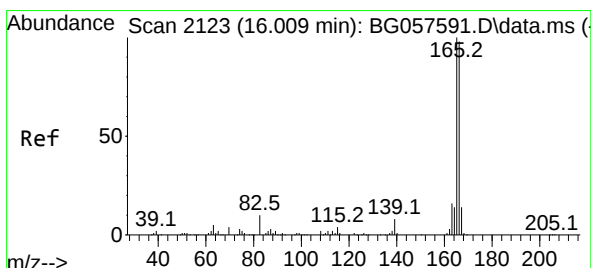
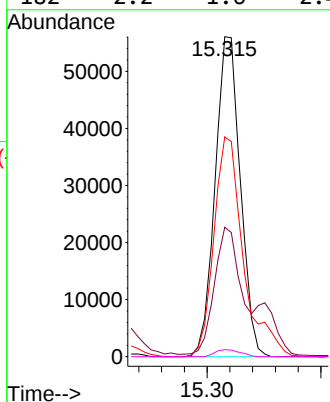
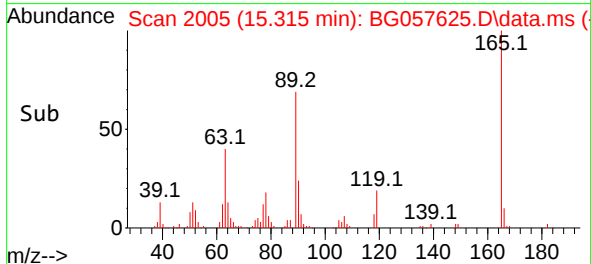


Tgt Ion:165 Resp: 86339
Ion Ratio Lower Upper
165 100
63 40.4 30.6 45.8
89 68.7 54.2 81.2
182 2.2 1.6 2.4

Manual Integrations

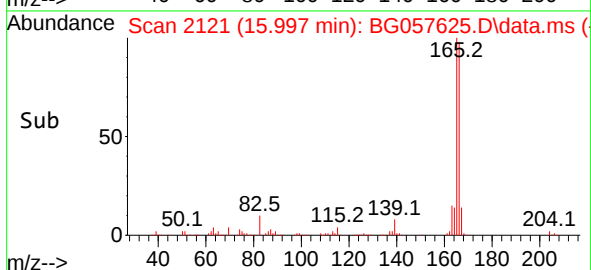
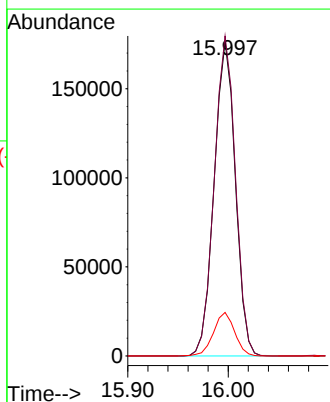
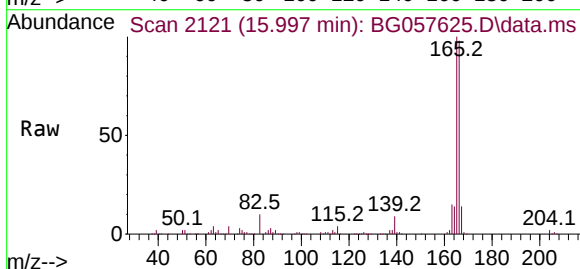
APPROVED

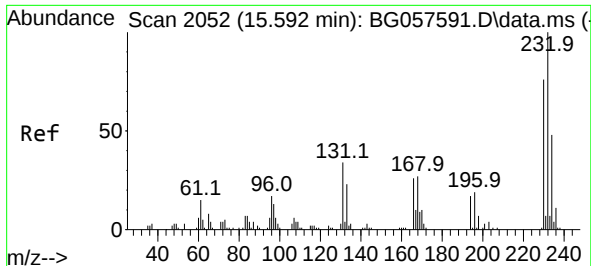
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#58
Fluorene
Concen: 44.118 ng
RT: 15.997 min Scan# 2121
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

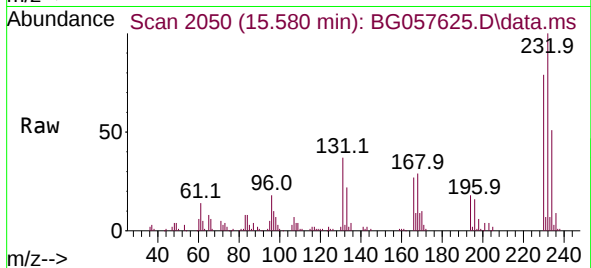
Tgt Ion:166 Resp: 258626
Ion Ratio Lower Upper
166 100
165 101.8 81.2 121.8
167 13.8 11.1 16.7





#59
2,3,4,6-Tetrachlorophenol
Concen: 47.337 ng
RT: 15.580 min Scan# 2052
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

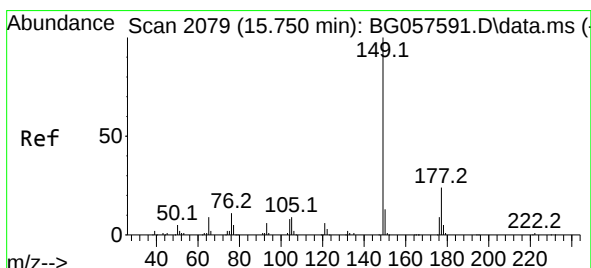
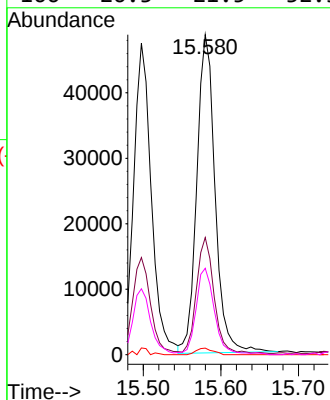
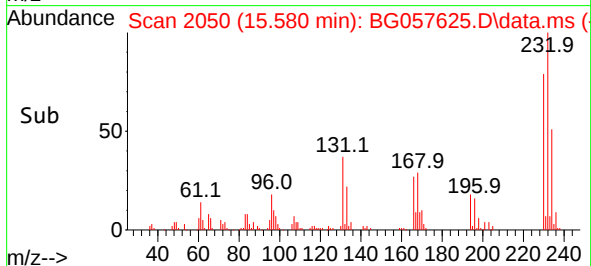
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



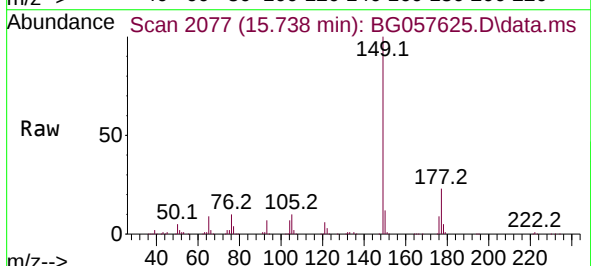
Tgt Ion:232 Resp: 7950
Ion Ratio Lower Upper
232 100
131 34.6 28.6 43.0
130 1.9 1.8 2.6
166 26.3 21.5 32.3

Manual Integrations
APPROVED

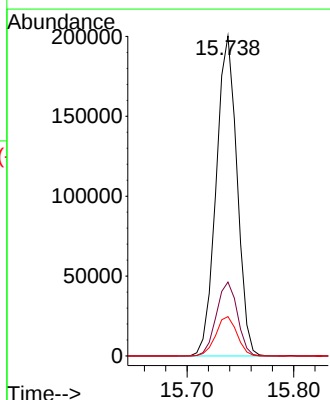
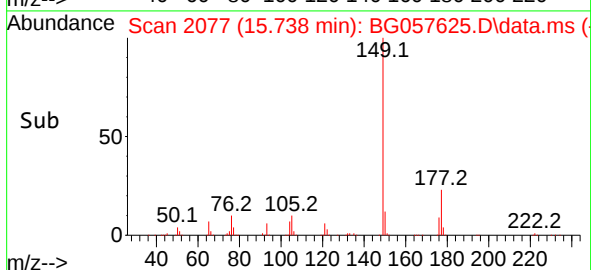
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

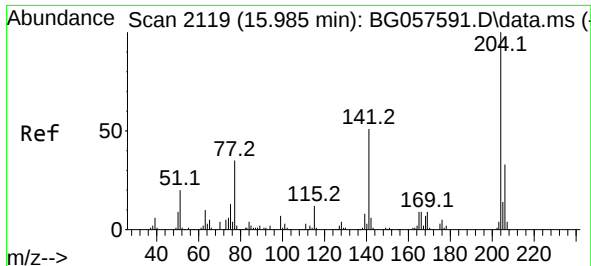


#60
Diethylphthalate
Concen: 43.382 ng
RT: 15.738 min Scan# 2077
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



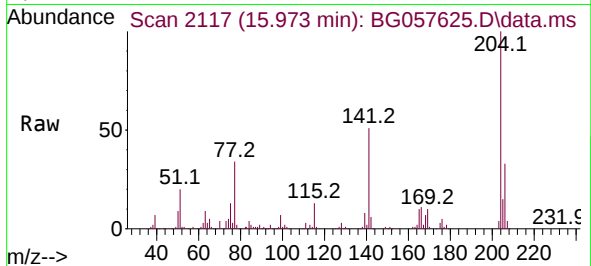
Tgt Ion:149 Resp: 271849
Ion Ratio Lower Upper
149 100
177 23.1 19.0 28.6
150 12.3 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 45.290 ng
RT: 15.973 min Scan# 2117
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

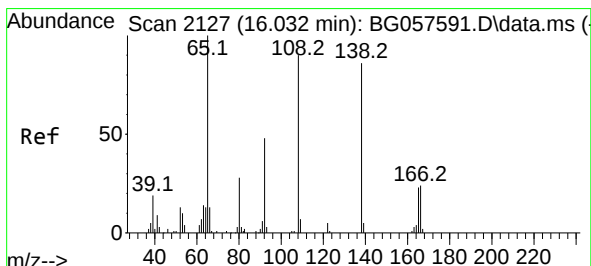
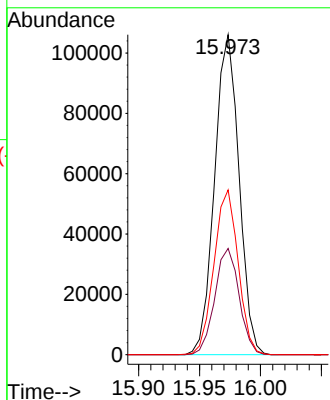
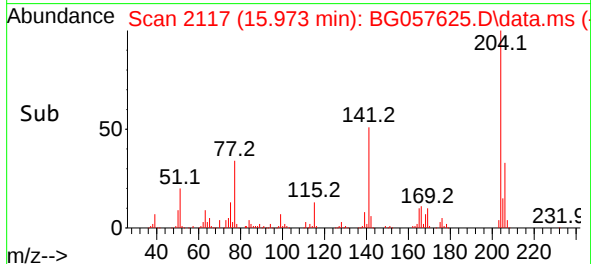
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



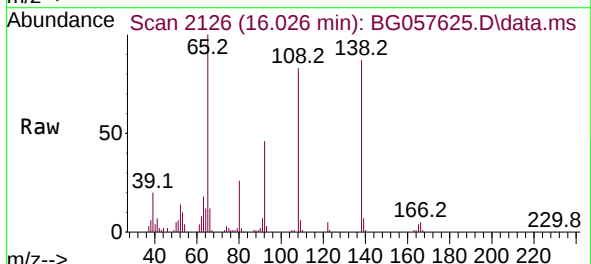
Tgt Ion:204 Resp: 147964
Ion Ratio Lower Upper
204 100
206 33.2 26.6 39.8
141 51.5 40.8 61.2

Manual Integrations
APPROVED

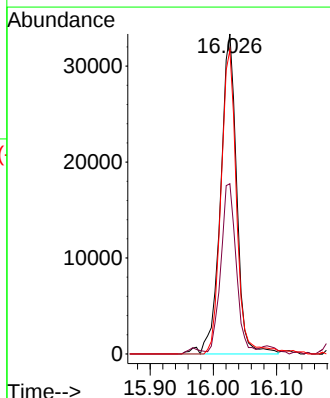
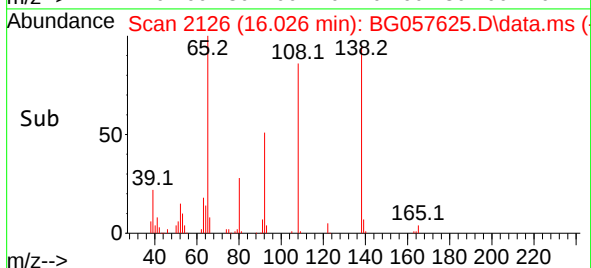
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

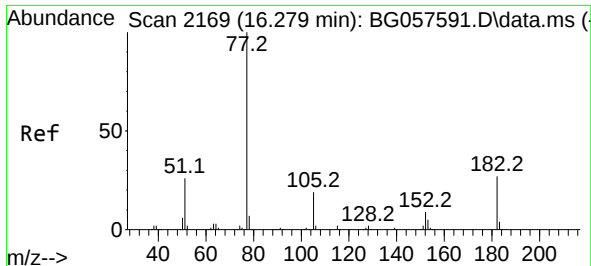


#62
4-Nitroaniline
Concen: 40.917 ng
RT: 16.026 min Scan# 2126
Delta R.T. 0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:138 Resp: 59165
Ion Ratio Lower Upper
138 100
92 53.2 36.4 76.4
108 95.0 85.4 125.4





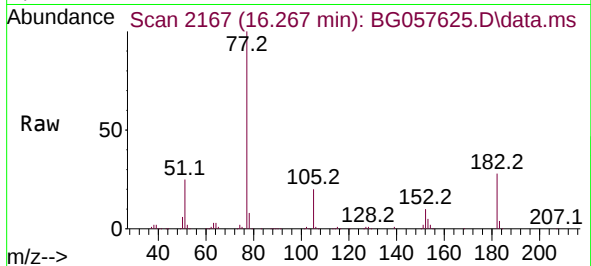
#63
Azobenzene
Concen: 45.358 ng
RT: 16.267 min Scan# 2167
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

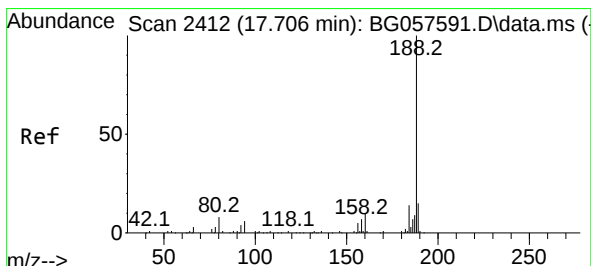
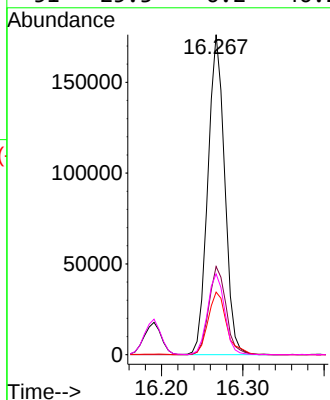
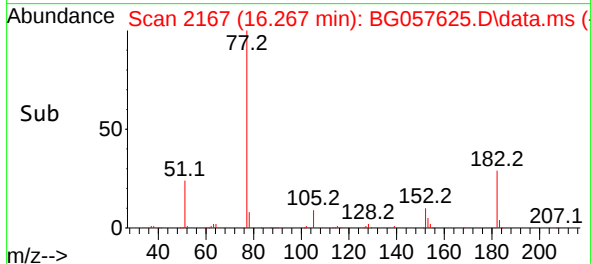


Tgt Ion: 77 Resp: 25277
Ion Ratio Lower Upper
77 100
182 27.6 7.4 47.4
105 19.5 0.0 39.4
51 25.3 6.2 46.2

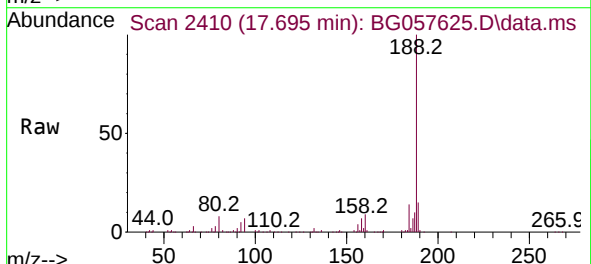
Manual Integrations

APPROVED

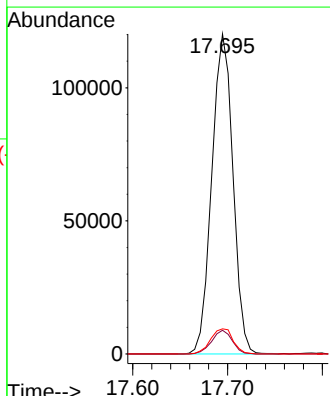
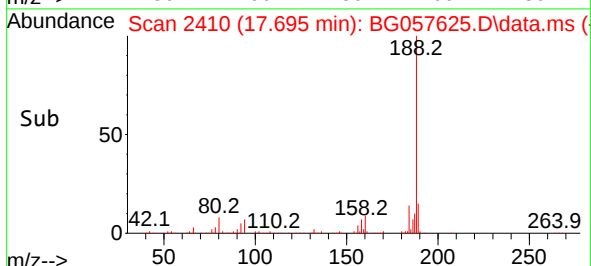
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

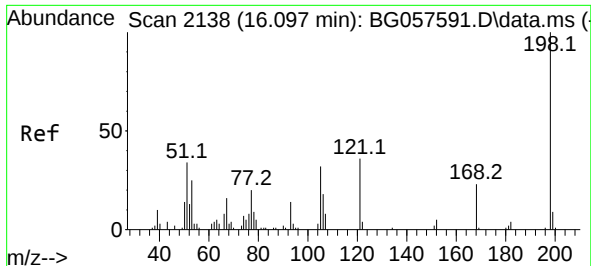


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.695 min Scan# 2410
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:188 Resp: 186296
Ion Ratio Lower Upper
188 100
94 7.4 5.2 7.8
80 7.9 6.7 10.1





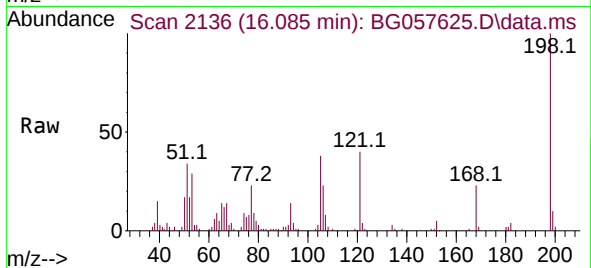
#65
4,6-Dinitro-2-methylphenol
Concen: 49.103 ng
RT: 16.085 min Scan# 2138
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

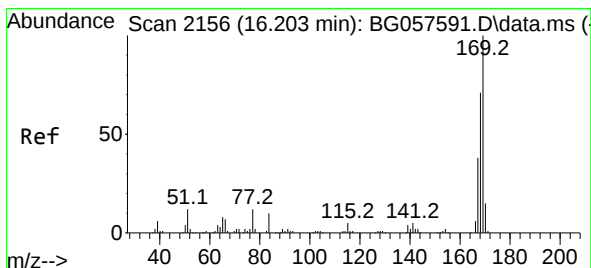
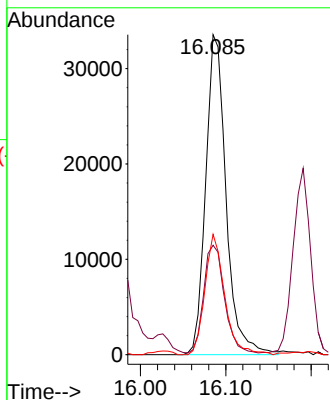
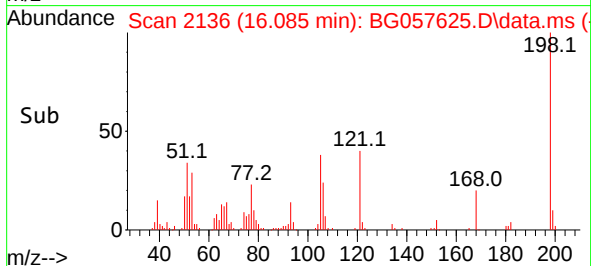


Tgt Ion:198 Resp: 55698
Ion Ratio Lower Upper
198 100
51 34.2 14.9 54.9
105 37.6 11.8 51.8

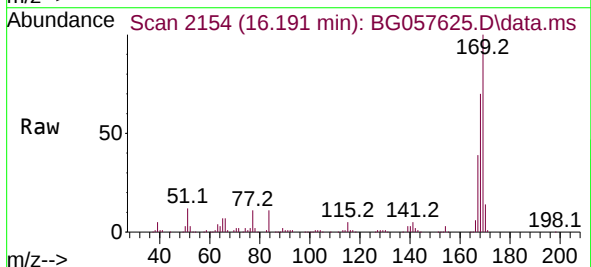
Manual Integrations

APPROVED

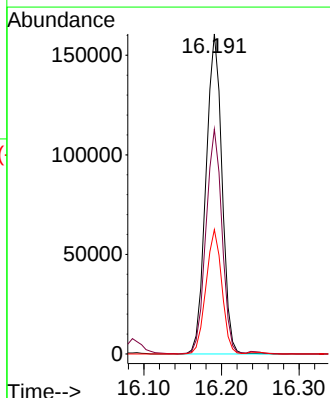
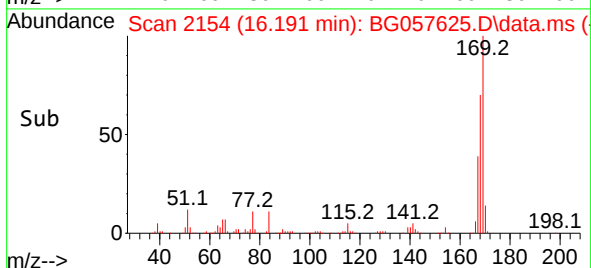
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

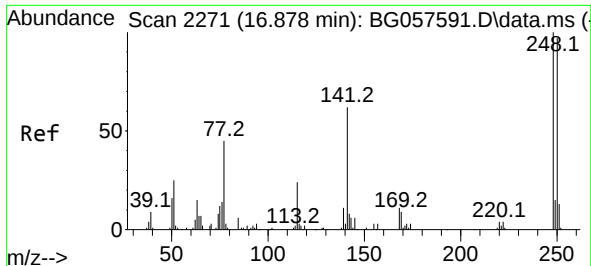


#66
n-Nitrosodiphenylamine
Concen: 47.549 ng
RT: 16.191 min Scan# 2154
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



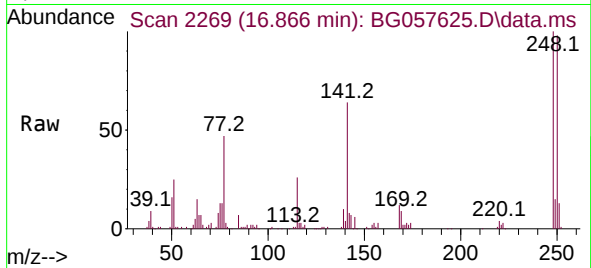
Tgt Ion:169 Resp: 230235
Ion Ratio Lower Upper
169 100
168 70.2 56.7 85.1
167 38.9 30.7 46.1





#67
4-Bromophenyl-phenylether
Concen: 47.050 ng
RT: 16.866 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

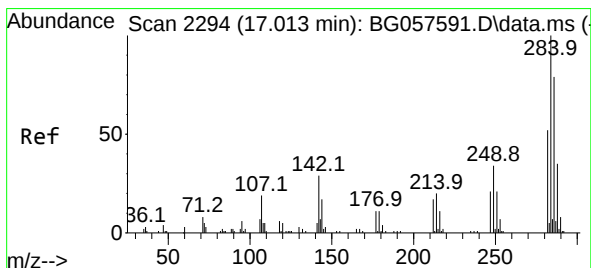
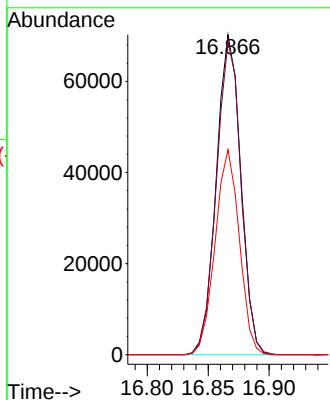
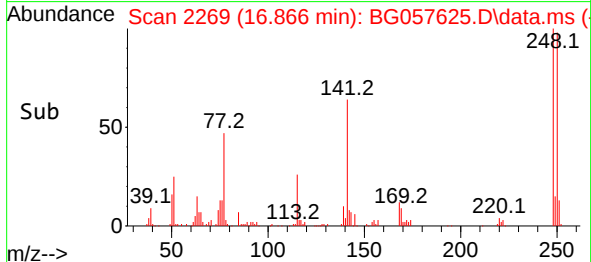
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



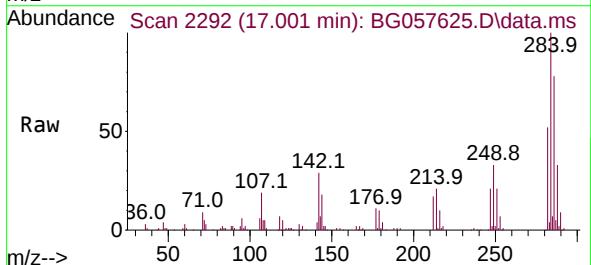
Tgt Ion:248 Resp: 9832
Ion Ratio Lower Upper
248 100
250 97.8 77.4 116.2
141 64.1 49.4 74.0

Manual Integrations
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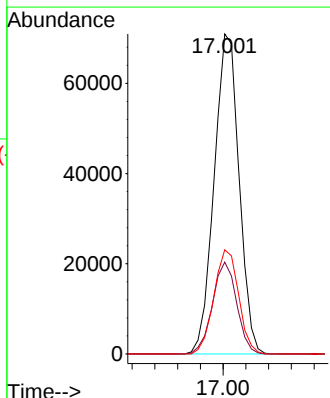
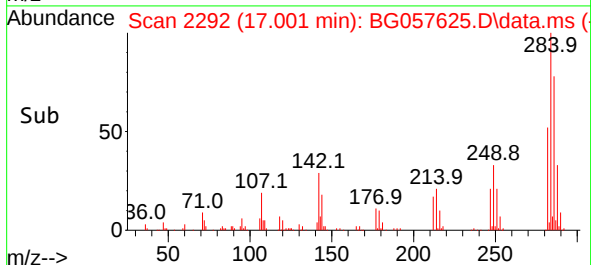
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

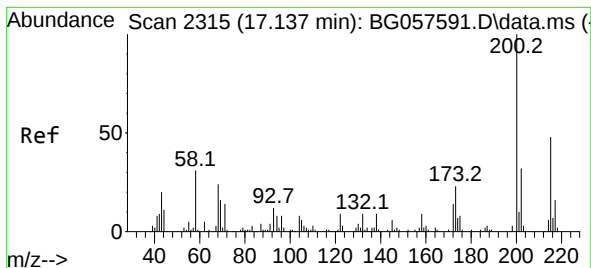


#68
Hexachlorobenzene
Concen: 50.053 ng
RT: 17.001 min Scan# 2292
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:284 Resp: 107819
Ion Ratio Lower Upper
284 100
142 28.7 22.9 34.3
249 32.5 27.0 40.4





#69

Atrazine

Concen: 47.295 ng

RT: 17.125 min Scan# 21

Delta R.T. 0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

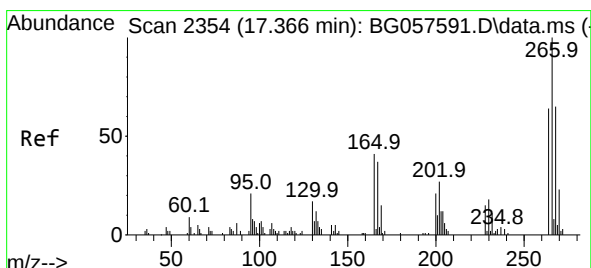
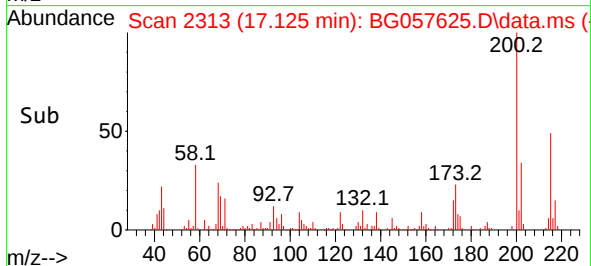
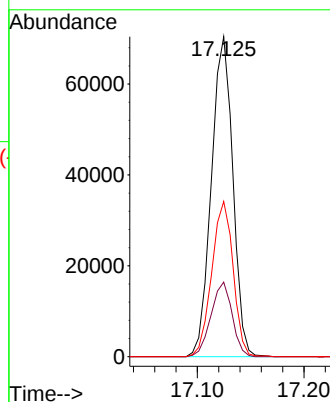
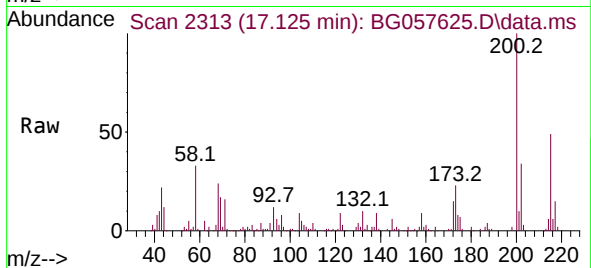
Tgt Ion:200 Resp: 98320
 Ion Ratio Lower Upper
 200 100
 173 23.3 3.2 43.2
 215 48.5 28.4 68.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#70

Pentachlorophenol

Concen: 94.515 ng

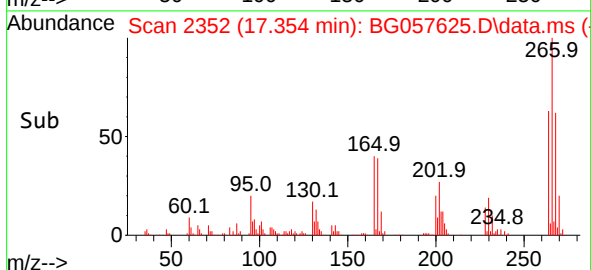
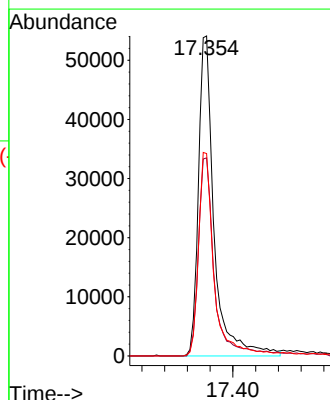
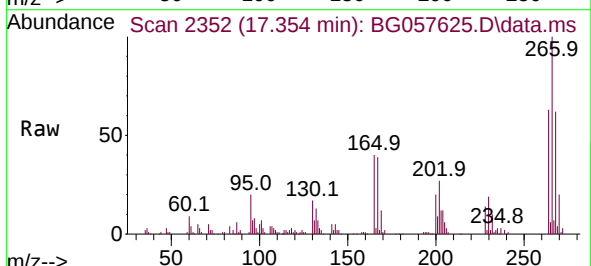
RT: 17.354 min Scan# 2352

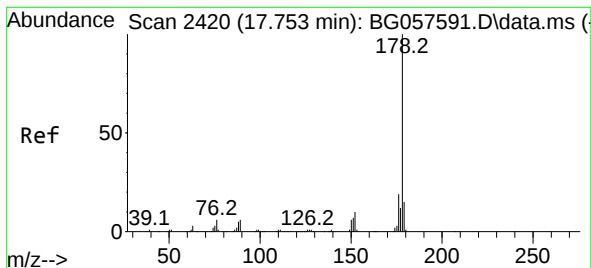
Delta R.T. -0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion:266 Resp: 103739
 Ion Ratio Lower Upper
 266 100
 268 61.9 52.2 78.4
 264 63.3 51.2 76.8





#71

Phenanthrene

Concen: 46.594 ng

RT: 17.736 min Scan# 2417

Delta R.T. -0.009 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

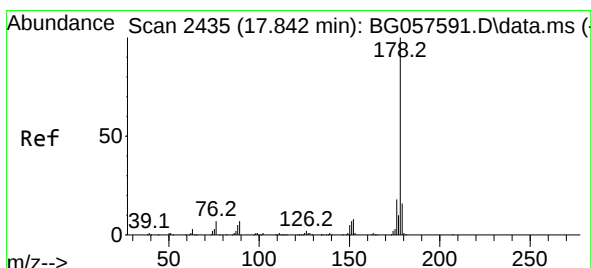
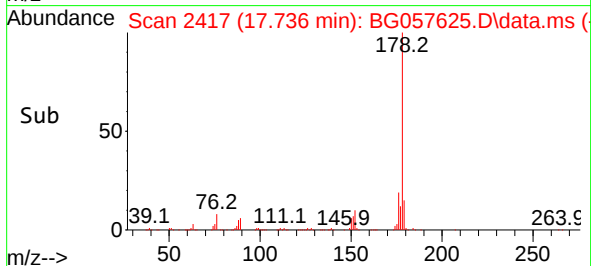
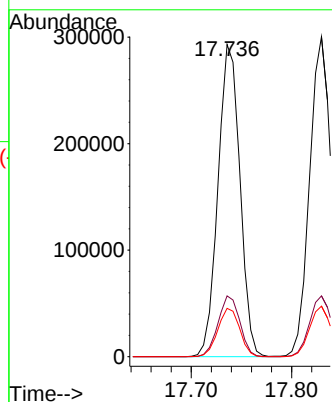
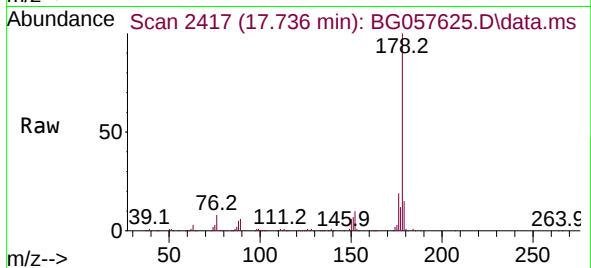
PNNL-RH-524-1MS

Tgt Ion:178 Resp: 444199
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.3 22.9
 179 15.5 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023



#72

Anthracene

Concen: 46.410 ng

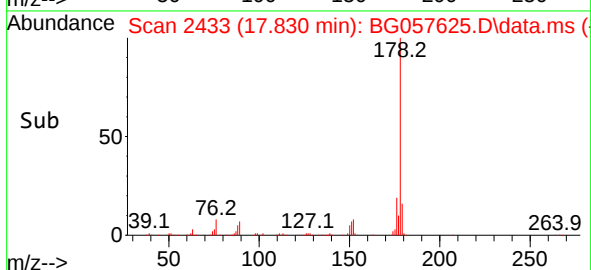
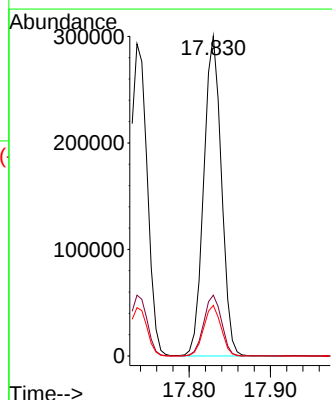
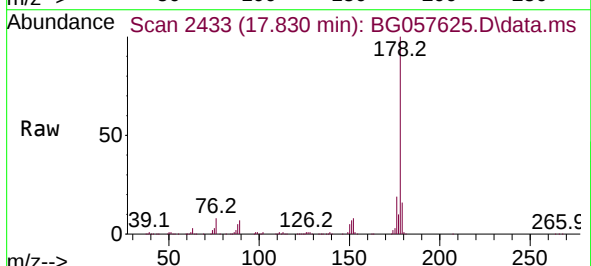
RT: 17.830 min Scan# 2433

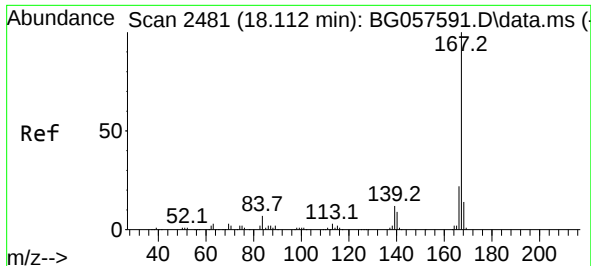
Delta R.T. -0.003 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

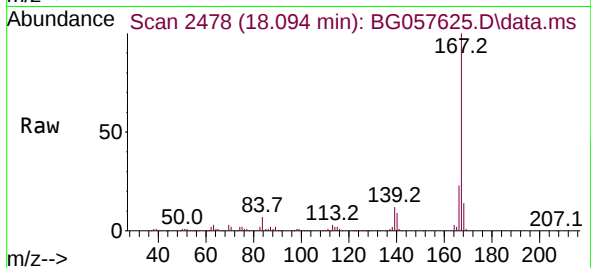
Tgt Ion:178 Resp: 453886
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.6 22.0
 179 15.8 12.6 18.8





#73
Carbazole
Concen: 47.049 ng
RT: 18.094 min Scan# 2481
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

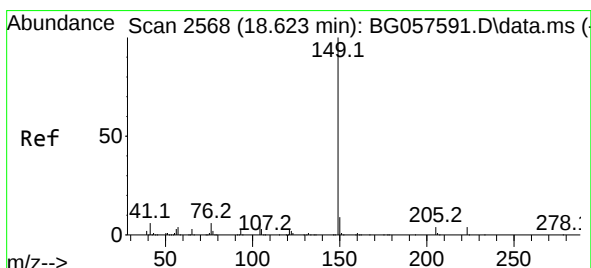
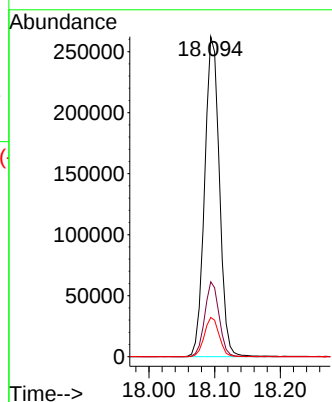
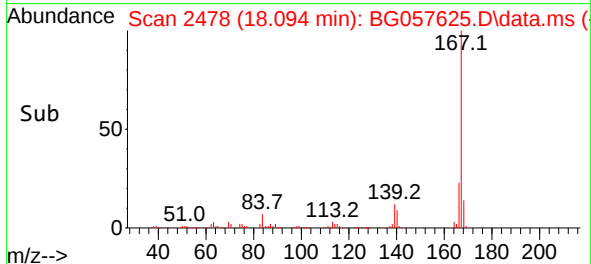
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:167 Resp: 411634
Ion Ratio Lower Upper
167 100
166 23.4 17.9 26.9
139 12.2 9.6 14.4

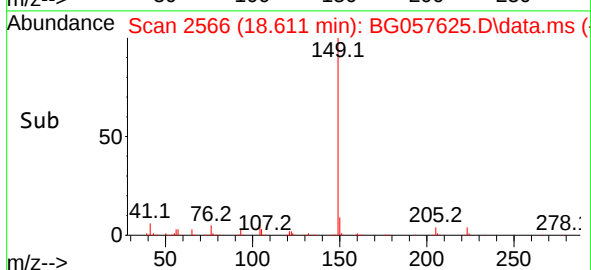
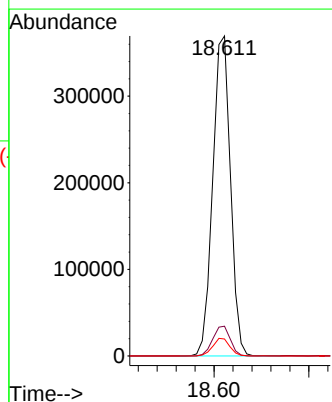
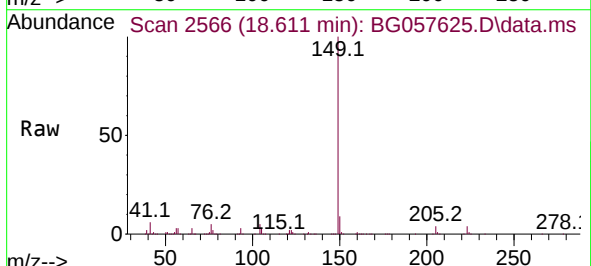
Manual Integrations
APPROVED

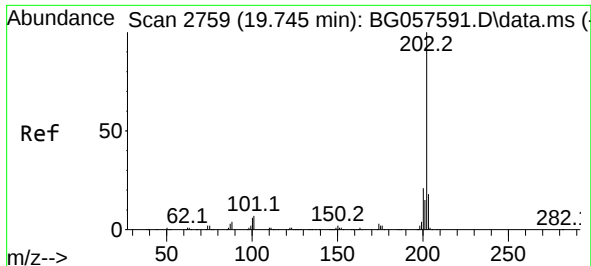
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#74
Di-n-butylphthalate
Concen: 46.279 ng
RT: 18.611 min Scan# 2566
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

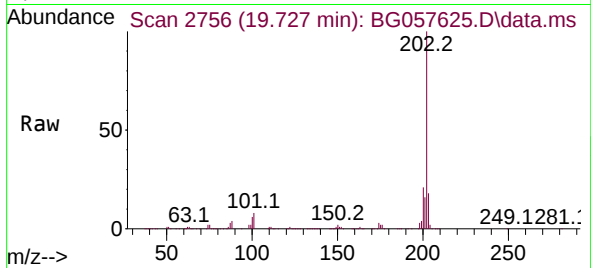
Tgt Ion:149 Resp: 480667
Ion Ratio Lower Upper
149 100
150 9.3 7.3 10.9
104 5.3 4.6 6.8





#75
Fluoranthene
Concen: 43.832 ng
RT: 19.727 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

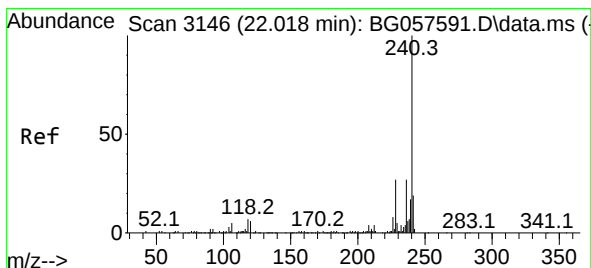
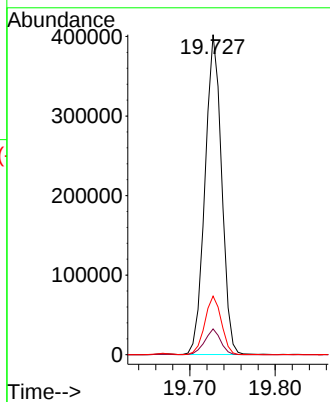
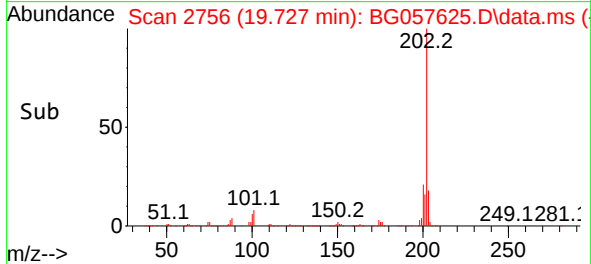
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:202 Resp: 542478
Ion Ratio Lower Upper
202 100
101 8.0 0.0 27.5
203 18.3 0.0 38.4

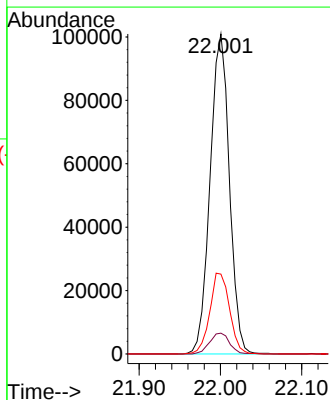
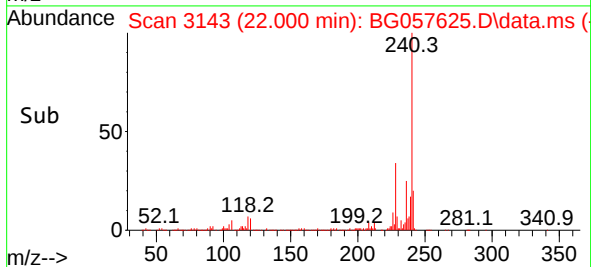
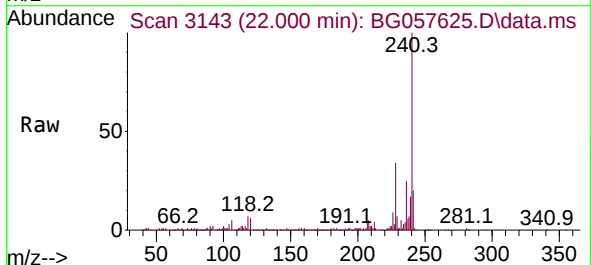
Manual Integrations
APPROVED

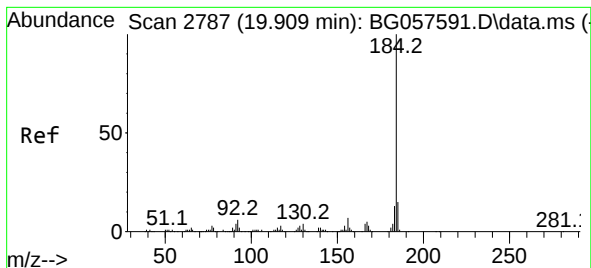
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.000 min Scan# 3143
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:240 Resp: 166281
Ion Ratio Lower Upper
240 100
120 6.5 5.2 7.8
236 25.0 21.4 32.0





#77

Benzidine

Concen: 11.630 ng m

RT: 19.909 min Scan# 21

Delta R.T. 0.015 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS

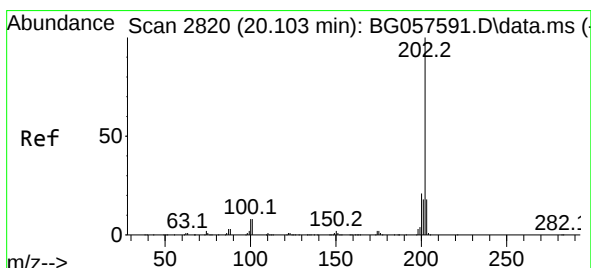
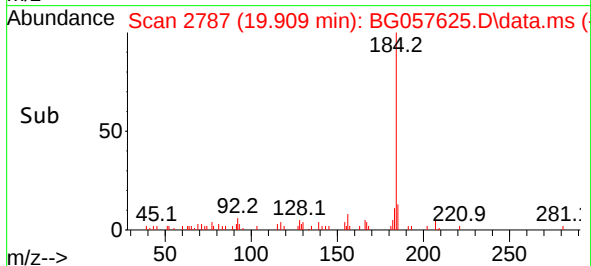
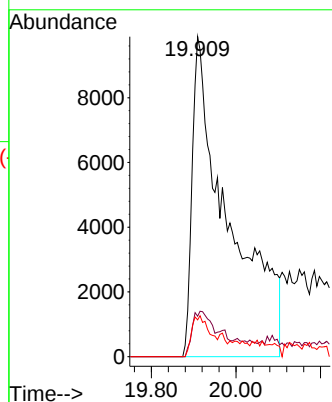
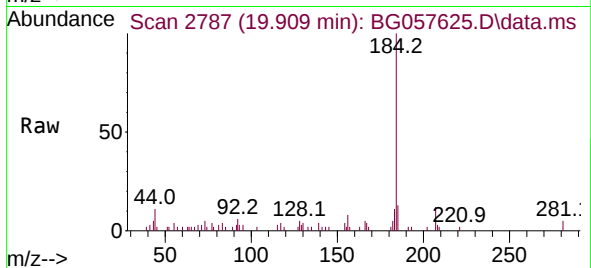
Tgt Ion:	184	Resp:	58519
Ion Ratio	Lower	Upper	
184	100		
185	12.6	12.0	18.0
183	11.5	10.0	15.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#78

Pyrene

Concen: 46.481 ng

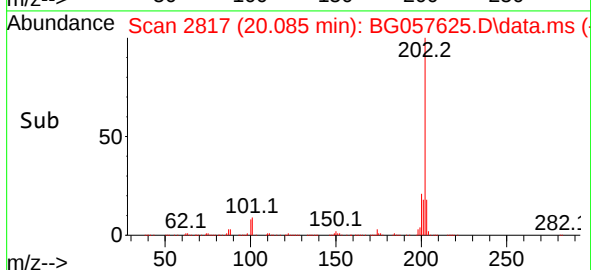
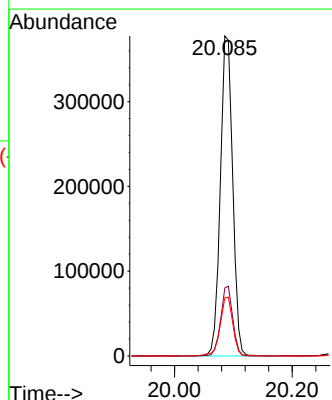
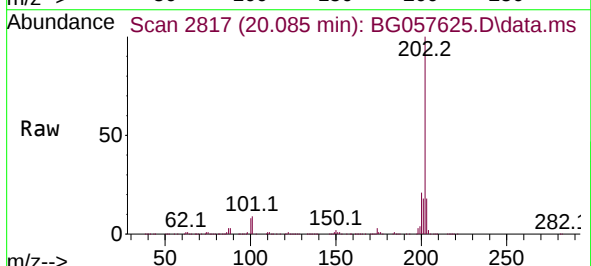
RT: 20.085 min Scan# 2817

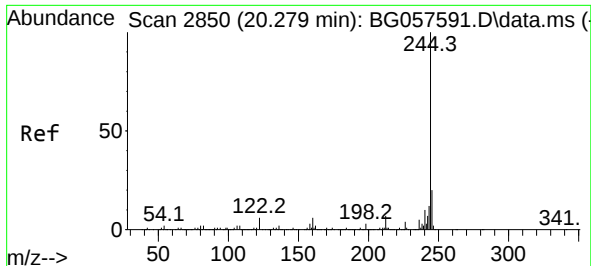
Delta R.T. -0.009 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion:	202	Resp:	550318
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.8	25.2
203	18.2	14.5	21.7





#79
Terphenyl-d14
Concen: 89.697 ng
RT: 20.262 min Scan# 2847
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

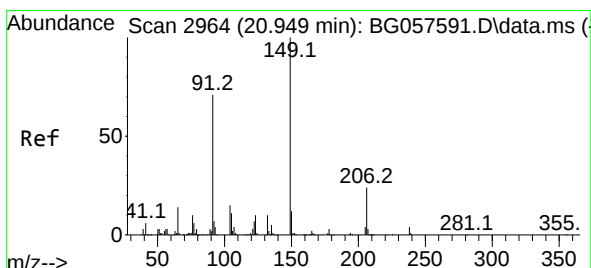
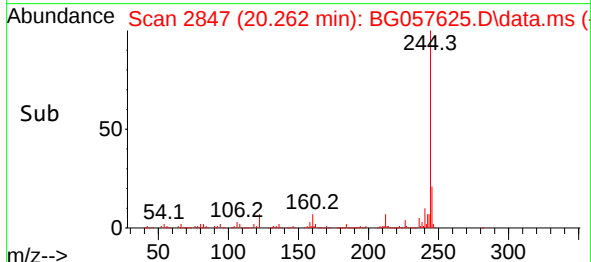
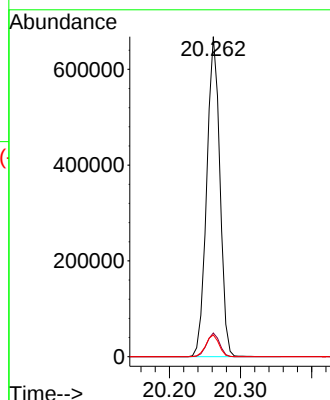
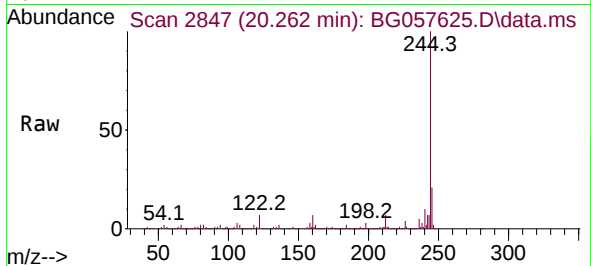
PNNL-RH-524-1MS

Tgt Ion:244 Resp: 86103
Ion Ratio Lower Upper
244 100
212 7.4 5.6 8.4
122 6.8 4.8 7.2

Manual Integrations

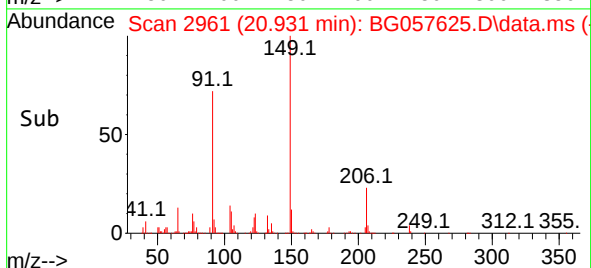
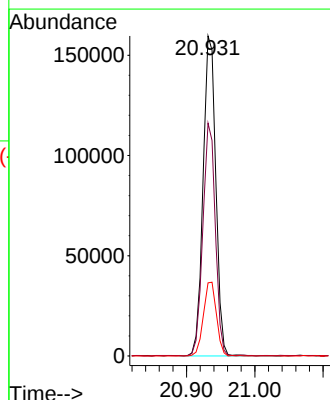
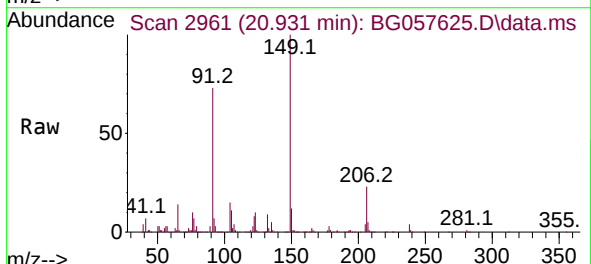
APPROVED

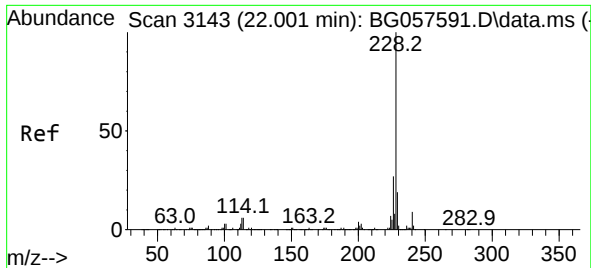
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#80
Butylbenzylphthalate
Concen: 47.977 ng
RT: 20.931 min Scan# 2961
Delta R.T. -0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

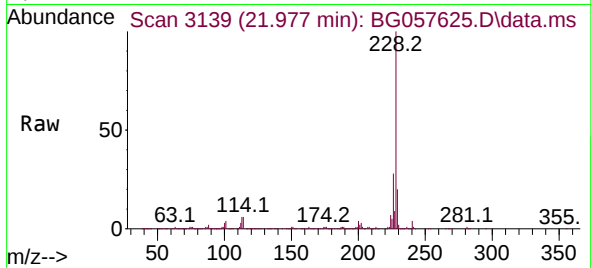
Tgt Ion:149 Resp: 206873
Ion Ratio Lower Upper
149 100
91 72.7 57.0 85.6
206 22.9 19.4 29.2





#81
Benzo(a)anthracene
Concen: 46.974 ng
RT: 21.977 min Scan# 3143
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

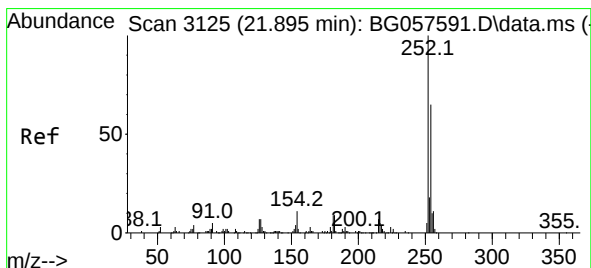
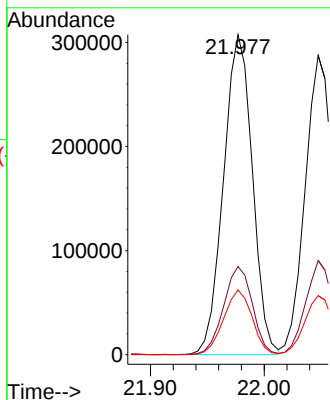
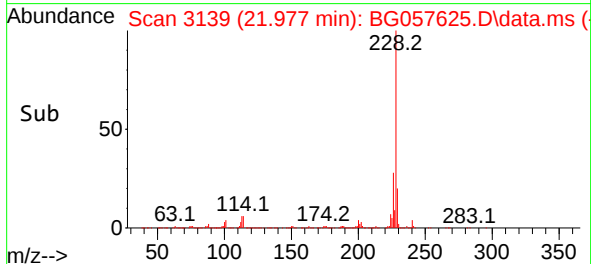
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



Tgt Ion:228 Resp: 541894
Ion Ratio Lower Upper
228 100
226 27.5 21.4 32.0
229 20.3 15.4 23.2

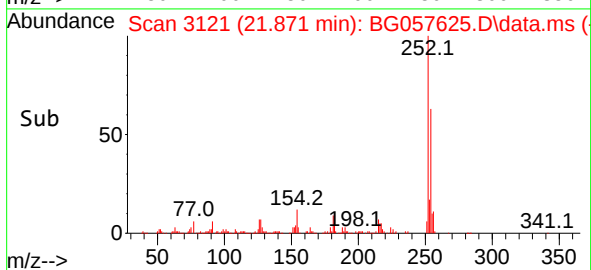
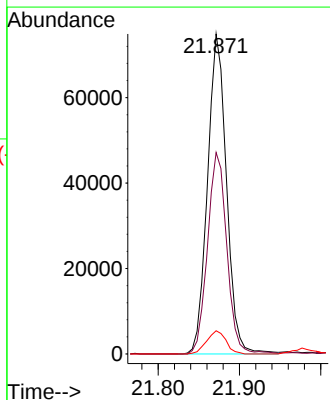
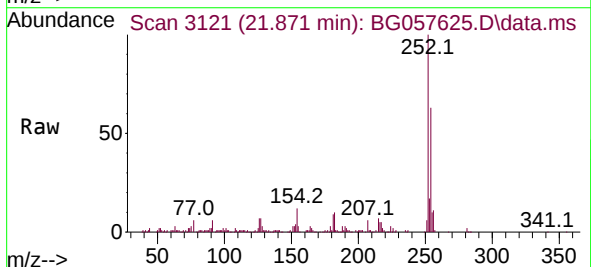
Manual Integrations
APPROVED

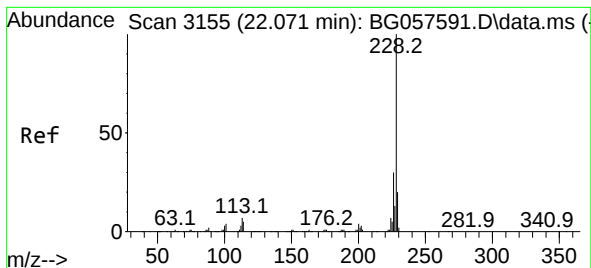
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#82
3,3'-Dichlorobenzidine
Concen: 28.638 ng
RT: 21.871 min Scan# 3121
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

Tgt Ion:252 Resp: 121827
Ion Ratio Lower Upper
252 100
254 62.9 51.8 77.8
126 7.3 5.4 8.2





#83

Chrysene

Concen: 45.360 ng

RT: 22.047 min Scan# 3115

Delta R.T. -0.009 min

Lab File: BG057625.D

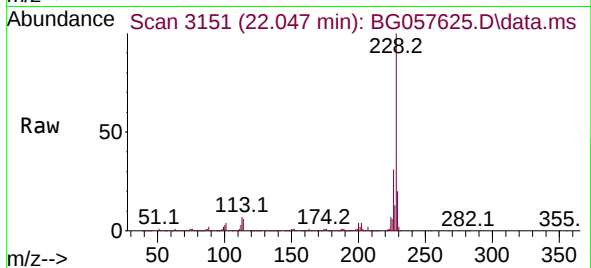
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS



Tgt Ion:228 Resp: 494494

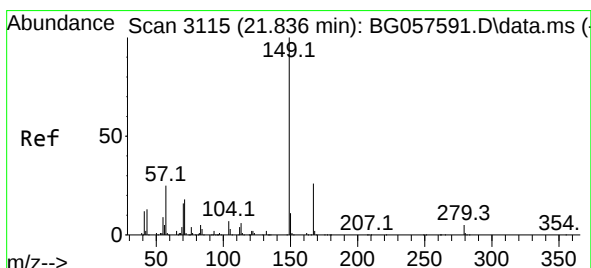
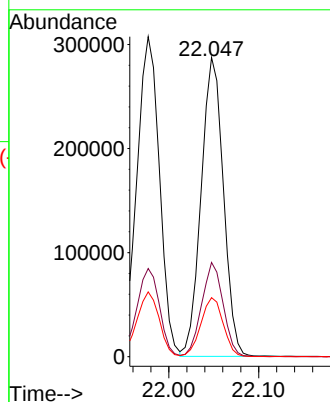
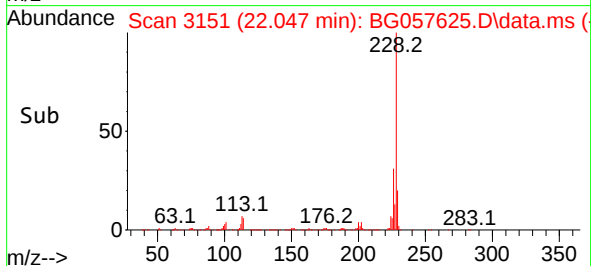
Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.3	36.5
229	19.7	16.0	24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 47.881 ng

RT: 21.813 min Scan# 3111

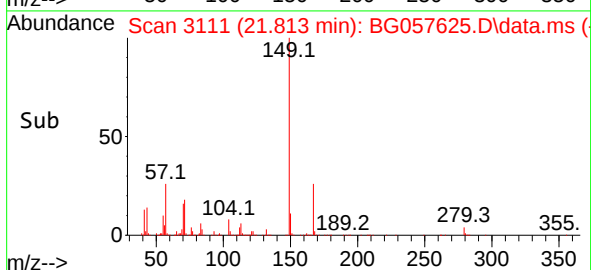
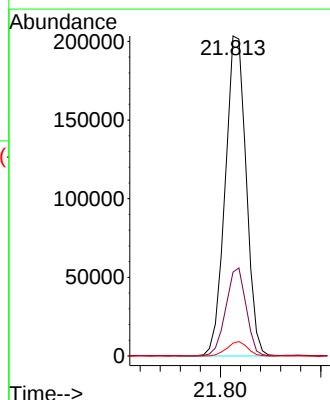
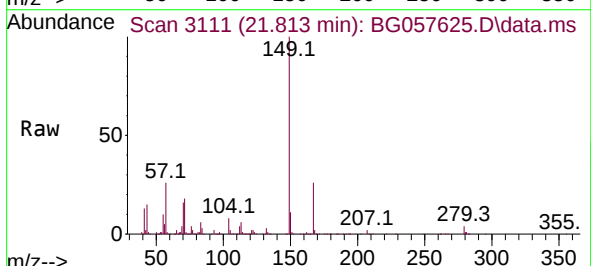
Delta R.T. -0.009 min

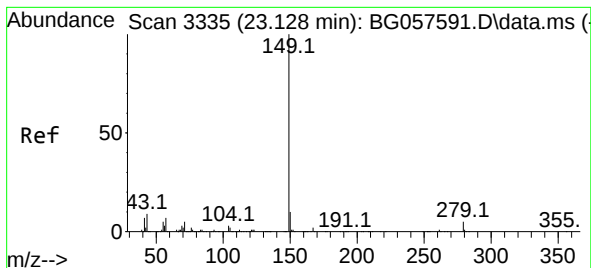
Lab File: BG057625.D

Acq: 31 May 2023 17:18

Tgt Ion:149 Resp: 294498

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.6	31.0
279	4.0	3.6	5.4





#85

Di-n-octyl phthalate

Concen: 48.305 ng

RT: 23.099 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG057625.D

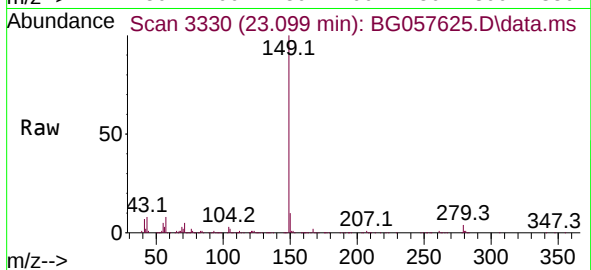
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS



Tgt Ion:149 Resp: 49247

Ion Ratio Lower Upper

149 100

167 1.7 1.3 1.9

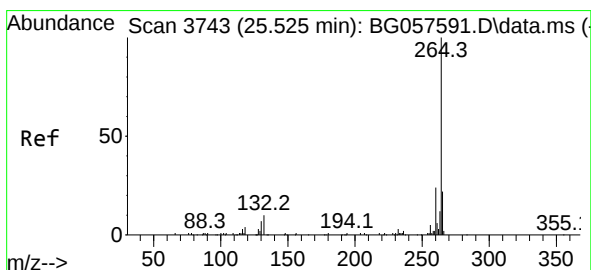
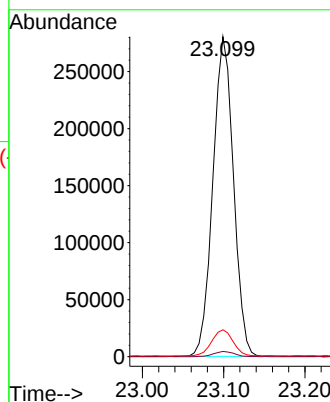
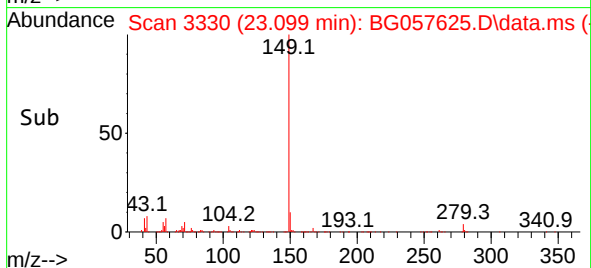
43 8.5 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.484 min Scan# 3736

Delta R.T. -0.015 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

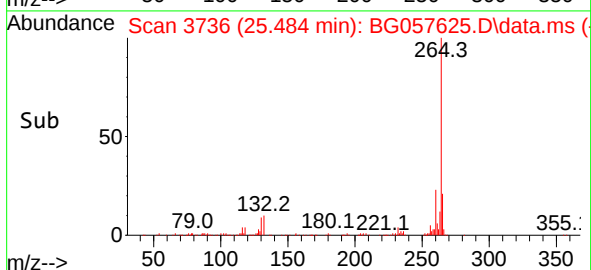
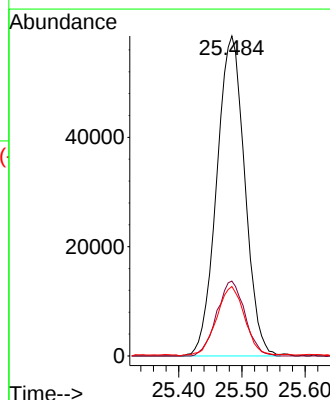
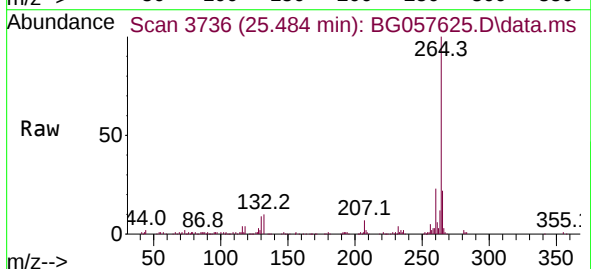
Tgt Ion:264 Resp: 180395

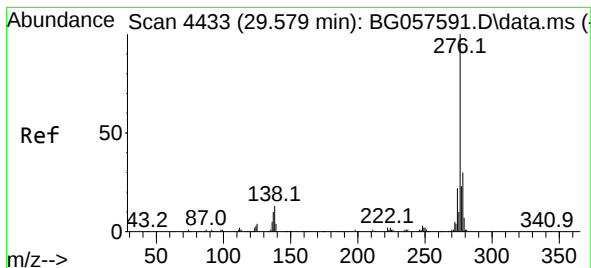
Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 21.7 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 48.284 ng

RT: 29.531 min Scan# 4433

Delta R.T. -0.021 min

Lab File: BG057625.D

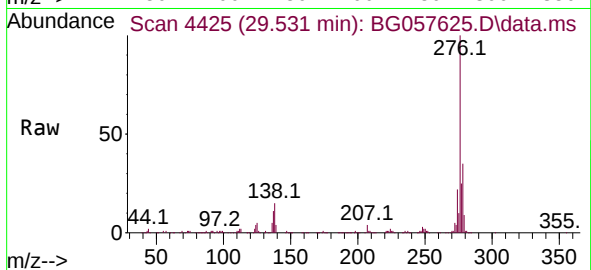
Acq: 31 May 2023 17:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-1MS



Tgt Ion:276 Resp: 607280

Ion Ratio Lower Upper

276 100

138 8.3 12.3 18.5

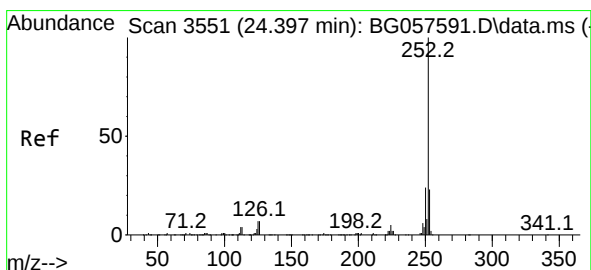
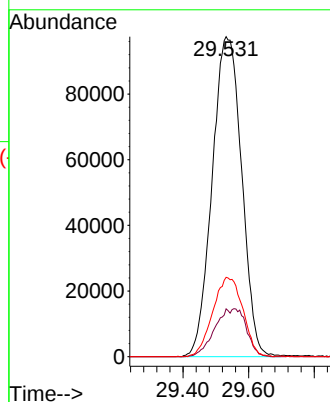
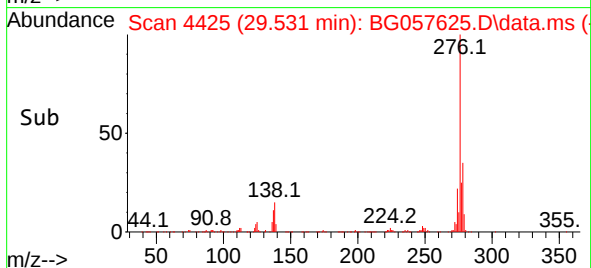
277 25.3 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023

Supervised By :mohammad ahmed 06/01/2023



#88

Benzo(b)fluoranthene

Concen: 48.536 ng

RT: 24.368 min Scan# 3546

Delta R.T. -0.009 min

Lab File: BG057625.D

Acq: 31 May 2023 17:18

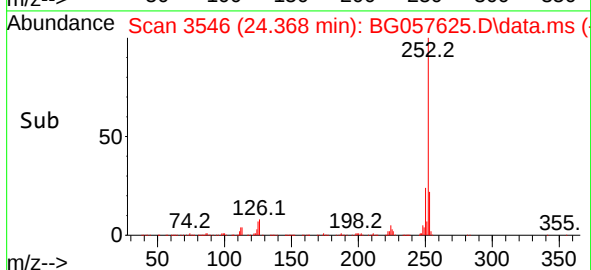
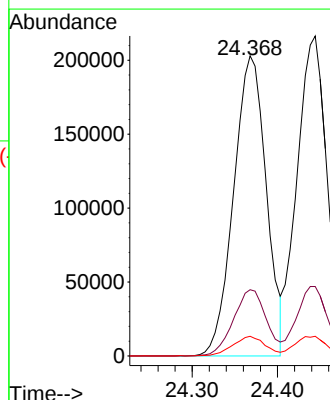
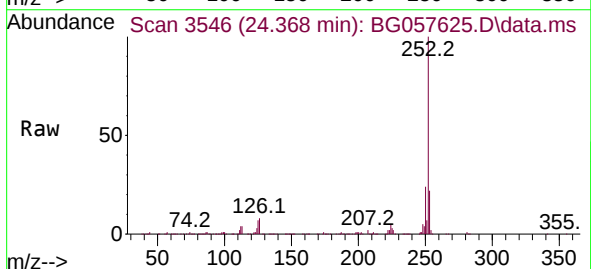
Tgt Ion:252 Resp: 538934

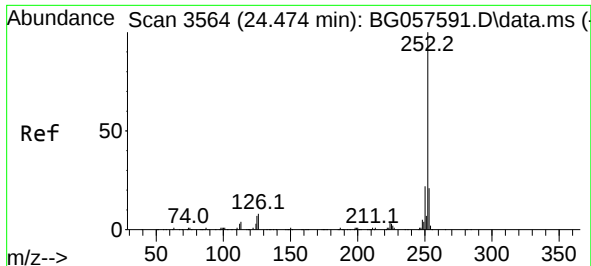
Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

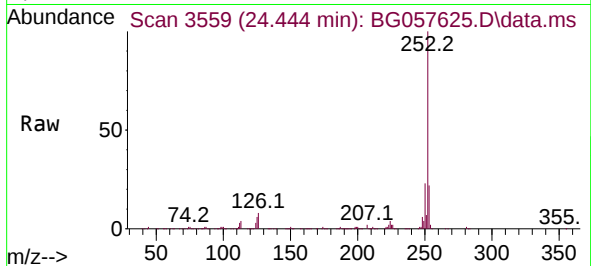
125 6.6 5.2 7.8





#89
Benzo(k)fluoranthene
Concen: 47.260 ng
RT: 24.444 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

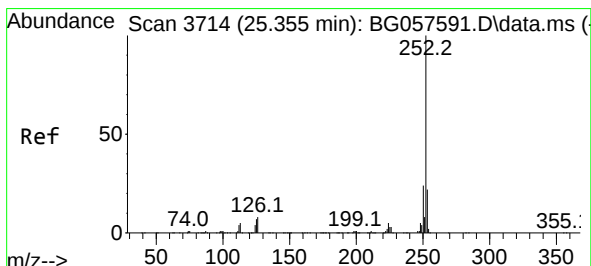
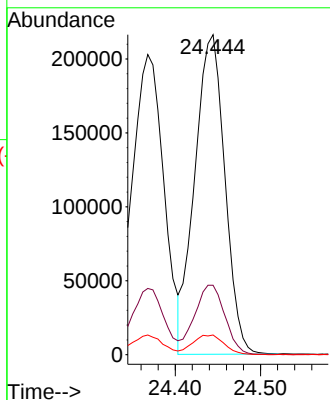
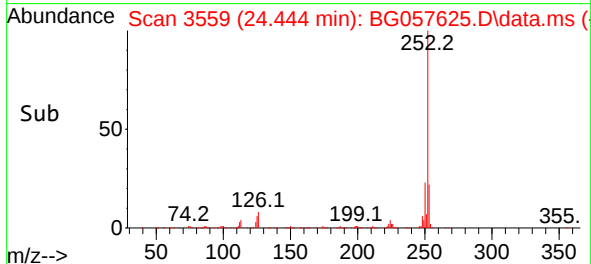
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



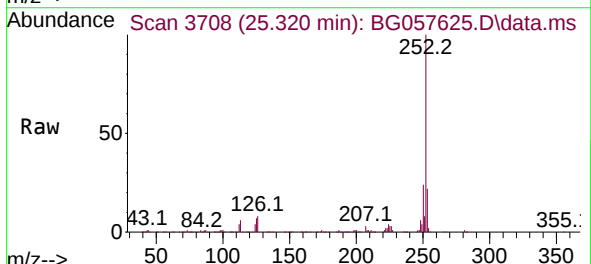
Tgt Ion:252 Resp: 529612
Ion Ratio Lower Upper
252 100
253 21.7 17.0 25.6
125 6.2 5.1 7.7

Manual Integrations
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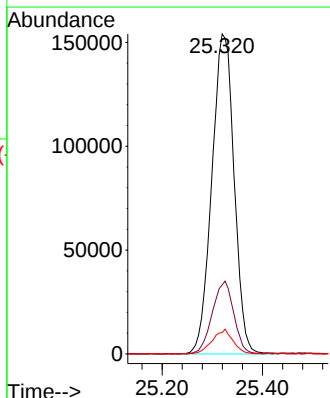
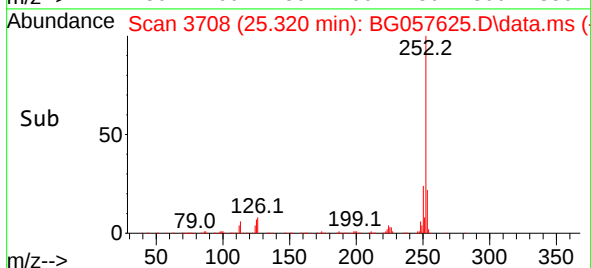
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

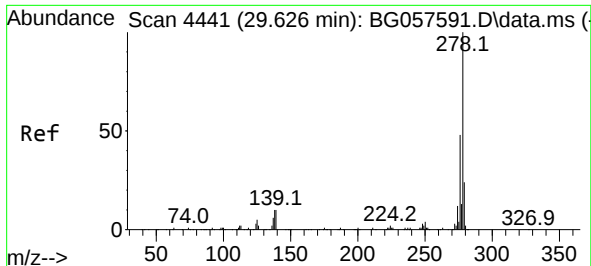


#90
Benzo(a)pyrene
Concen: 43.838 ng
RT: 25.320 min Scan# 3708
Delta R.T. -0.009 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



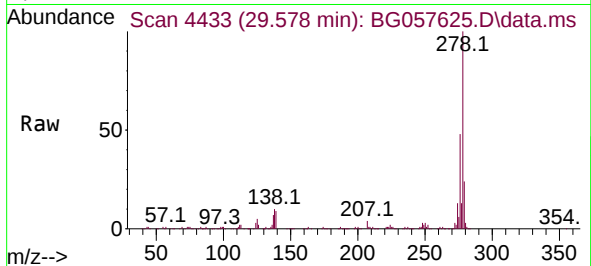
Tgt Ion:252 Resp: 474705
Ion Ratio Lower Upper
252 100
253 21.6 17.7 26.5
125 6.7 5.3 7.9





#91
Dibenzo(a,h)anthracene
Concen: 48.101 ng
RT: 29.578 min Scan# 4441
Delta R.T. -0.015 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18

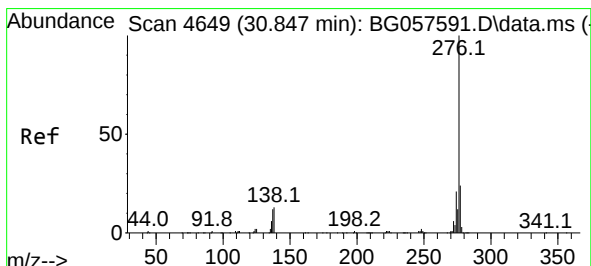
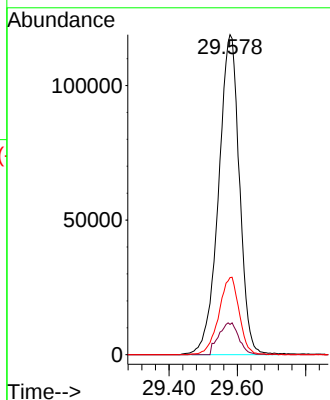
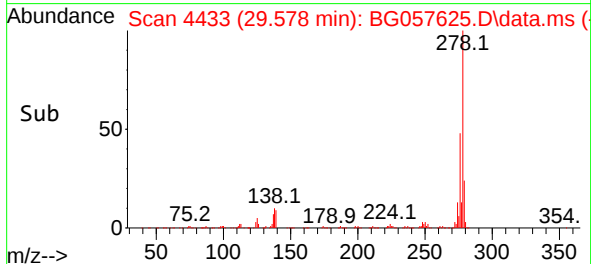
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-1MS



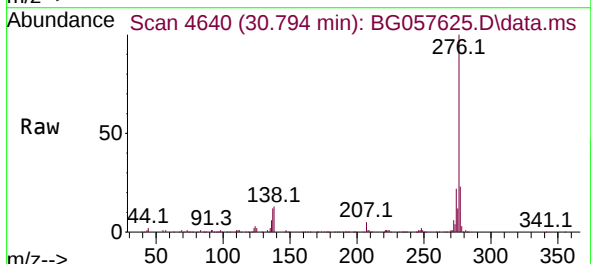
Tgt Ion:278 Resp: 503480
Ion Ratio Lower Upper
278 100
139 9.4 7.8 11.8
279 24.1 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#92
Benzo(g,h,i)perylene
Concen: 48.344 ng
RT: 30.794 min Scan# 4640
Delta R.T. -0.015 min
Lab File: BG057625.D
Acq: 31 May 2023 17:18



Tgt Ion:276 Resp: 493518
Ion Ratio Lower Upper
276 100
277 22.9 18.9 28.3
138 13.3 10.2 15.4

