

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP042024\
 Data File : BP020067.D
 Acq On : 21 Apr 2024 08:27
 Operator : MA/JU
 Sample : PB160401BS
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SLCS401

Quant Time: Apr 22 00:31:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP041924.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Apr 20 01:32:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	124430	20.000	ng/u1	0.00
20) Naphthalene-d8	10.416	136	476743	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.322	164	306339	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.163	188	645350	20.000	ng/u1	0.00
79) Chrysene-d12	21.680	240	549587	20.000	ng/u1	0.02
88) Perylene-d12	25.086	264	615705	20.000	ng/u1	0.04
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.228	96	22654	7.460	ng/uL	0.00
4) Pyridine-d5	3.628	84	263451	29.473	ng/u1	0.00
7) Phenol-d5	6.828	99	344382	31.756	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	6.999	67	236717	31.229	ng/u1	0.00
11) 2-Chlorophenol-d4	7.181	132	251730	33.997	ng/u1	0.00
15) 4-Methylphenol-d8	8.352	113	261366	30.854	ng/u1	0.00
21) Nitrobenzene-d5	8.805	128	124071	36.180	ng/u1	0.00
24) 2-Nitrophenol-d4	9.516	143	139811	37.717	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.046	165	255808	34.786	ng/u1	0.00
31) 4-Chloroaniline-d4	10.569	131	307116	31.284	ng/u1	0.00
46) Dimethylphthalate-d6	13.734	166	719365	34.360	ng/u1	0.00
49) Acenaphthylene-d8	14.010	160	828280	33.194	ng/u1	0.01
54) 4-Nitrophenol-d4	14.569	143	119788	37.587	ng/u1	0.01
60) Fluorene-d10	15.351	176	621425	33.345	ng/u1	0.01
65) 4,6-Dinitro-2-methylph...	15.498	200	83652	22.188	ng/u1	0.01
73) Anthracene-d10	17.269	188	980023	33.897	ng/u1	0.00
81) Pyrene-d10	19.681	212	1141110	38.635	ng/u1	0.02
92) Benzo(a)pyrene-d12	24.857	264	1055817	35.104	ng/u1	0.05
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.264	88	33033	9.677	ng/uL	97
5) Pyridine	3.646	79	277791	30.015	ng/u1	99
6) Benzaldehyde	6.811	77	219522	33.862	ng/u1	97
8) Phenol	6.858	94	365339	31.969	ng/u1	95
10) Bis(2-Chloroethyl)ether	7.087	93	288704	30.939	ng/u1	96
12) 2-Chlorophenol	7.211	128	266269	34.127	ng/u1	94
13) 2-Methylphenol	8.087	108	257895	30.793	ng/u1	94
14) 2,2'-oxybis(1-Chloropr...	8.163	45	404821	29.682	ng/u1	99
16) Acetophenone	8.469	105	430502	29.667	ng/u1	99
17) N-Nitroso-di-n-propyla...	8.452	70	245559	28.969	ng/u1	95
18) 4-Methylphenol	8.411	108	274970	30.855	ng/u1	99
19) Hexachloroethane	8.693	117	124494	32.418	ng/u1	99
22) Nitrobenzene	8.846	77	366943	32.833	ng/u1	98
23) Isophorone	9.363	82	646276	31.157	ng/u1	98
25) 2-Nitrophenol	9.546	139	145887	36.948	ng/u1	92
26) 2,4-Dimethylphenol	9.605	107	265235	28.081	ng/u1	96
27) Bis(2-Chloroethoxy)met...	9.846	93	371078	31.905	ng/u1	99
29) 2,4-Dichlorophenol	10.075	162	252047	35.199	ng/u1	98
30) Naphthalene	10.469	128	798872	32.314	ng/u1	99
32) 4-Chloroaniline	10.593	127	304784	31.293	ng/u1	98
33) Hexachlorobutadiene	10.728	225	200445	34.042	ng/u1	98
34) Caprolactam	11.404	113	58857	26.226	ng/u1	92
35) 4-Chloro-3-methylphenol	11.734	107	286156	33.333	ng/u1	97
36) 2-Methylnaphthalene	12.093	142	539353	31.601	ng/u1	98

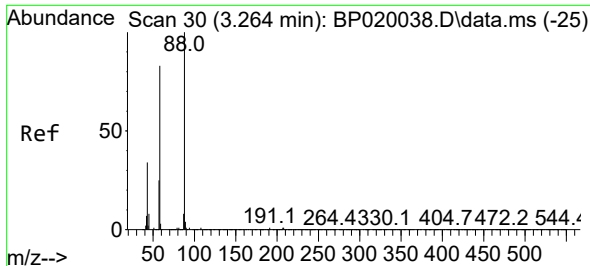
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP042024\
 Data File : BP020067.D
 Acq On : 21 Apr 2024 08:27
 Operator : MA/JU
 Sample : PB160401BS
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SLCS401

Quant Time: Apr 22 00:31:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\SFAM-EPA-BP041924.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Apr 20 01:32:50 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.316	142	544970	32.153	ng/ul	98
39) 1,2,4,5-Tetrachloroben...	12.463	216	341734	34.230	ng/ul	98
40) Hexachlorocyclopentadiene	12.428	237	89814	15.616	ng/ul	99
41) 2,4,6-Trichlorophenol	12.722	196	212085	35.454	ng/ul	99
42) 2,4,5-Trichlorophenol	12.804	196	230942	37.140	ng/ul	100
43) 1,1'-Biphenyl	13.134	154	719378	32.755	ng/ul	99
44) 2-Chloronaphthalene	13.175	162	567155	32.326	ng/ul	98
45) 2-Nitroaniline	13.404	65	211193	37.050	ng/ul	94
47) Dimethylphthalate	13.787	163	699578	32.542	ng/ul	99
48) 2,6-Dinitrotoluene	13.916	165	148061	36.498	ng/ul	95
50) Acenaphthylene	14.040	152	888270	31.580	ng/ul	100
51) 3-Nitroaniline	14.251	138	148898	38.779	ng/ul	96
52) Acenaphthene	14.393	153	588924	31.763	ng/ul	98
53) 2,4-Dinitrophenol	14.487	184	53201	21.809	ng/ul	94
55) 4-Nitrophenol	14.587	109	129848	35.761	ng/ul	98
56) Dibenzofuran	14.734	168	843365	32.945	ng/ul	99
57) 2,4-Dinitrotoluene	14.734	165	214609	37.370	ng/ul	90
58) 2,3,4,6-Tetrachlorophenol	14.975	232	199317	37.015	ng/ul	98
59) Diethylphthalate	15.187	149	709267	32.855	ng/ul	98
61) Fluorene	15.410	166	687955	32.525	ng/ul	98
62) 4-Chlorophenyl-phenyle...	15.410	204	364961	31.758	ng/ul	98
63) 4-Nitroaniline	15.457	138	150834	44.244	ng/ul	96
66) 4,6-Dinitro-2-methylph...	15.516	198	88598	22.610	ng/ul	99
67) N-Nitrosodiphenylamine	15.634	169	585615	32.805	ng/ul	99
68) 4-Bromophenyl-phenylether	16.334	248	233086	32.932	ng/ul	96
69) Hexachlorobenzene	16.434	284	263007	34.328	ng/ul	97
70) Atrazine	16.634	200	233487	35.617	ng/ul	97
71) Pentachlorophenol	16.804	266	164309	35.382	ng/ul	98
72) Phenanthrene	17.210	178	1091649	32.578	ng/ul	100
74) Anthracene	17.316	178	1109431	32.462	ng/ul	99
75) 1,2,3,4-Tetrachloroben...	13.087	216	331706	32.420	ng/uL	97
76) Pentachlorobenzene	14.646	250	311511	32.355	ng/uL	99
77) Carbazole	17.610	167	1012107	34.561	ng/ul	99
78) Di-n-butylphthalate	18.204	149	1283433	36.325	ng/ul	99
80) Fluoranthene	19.333	202	1317502	37.942	ng/ul	100
82) Pyrene	19.710	202	1370418	37.933	ng/ul	98
83) Butylbenzylphthalate	20.680	149	542469	39.382	ng/ul	95
84) 3,3'-Dichlorobenzidine	21.592	252	374203	30.792	ng/ul	98
85) Benzo(a)anthracene	21.657	228	1314549	34.579	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.610	149	780196	36.741	ng/ul	99
87) Chrysene	21.727	228	1223691	34.180	ng/ul	99
89) Di-n-octyl phthalate	22.927	149	1370486	36.015	ng/ul	100
90) Benzo(b)fluoranthene	24.004	252	1249987	33.686	ng/ul	99
91) Benzo(k)fluoranthene	24.080	252	1280510	33.660	ng/ul	99
93) Benzo(a)pyrene	24.921	252	1076026	30.092	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	28.968	276	1259149	30.367	ng/ul	98
95) Dibenzo(a,h)anthracene	29.051	278	664700	19.675	ng/ul	100
96) Benzo(g,h,i)perylene	30.180	276	727420	21.934	ng/ul	97

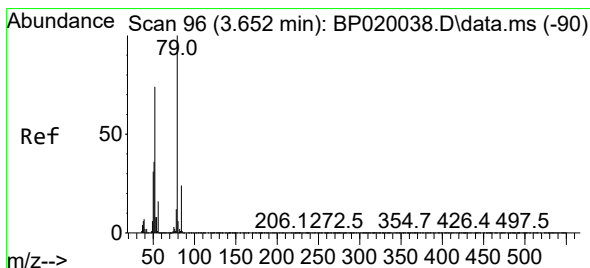
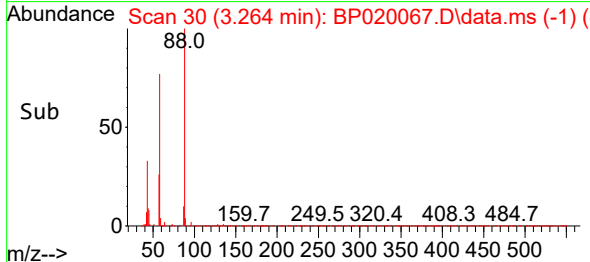
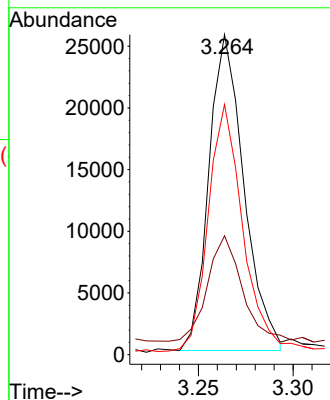
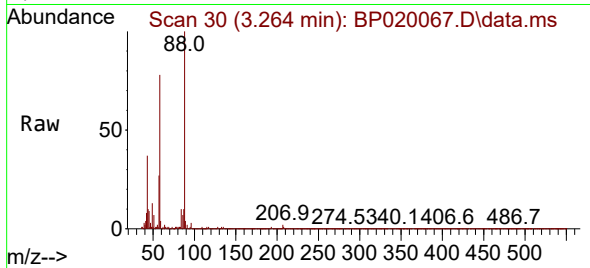
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
1,4-Dioxane
Concen: 9.677 ng/uL
RT: 3.264 min Scan# 30
Delta R.T. -0.000 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

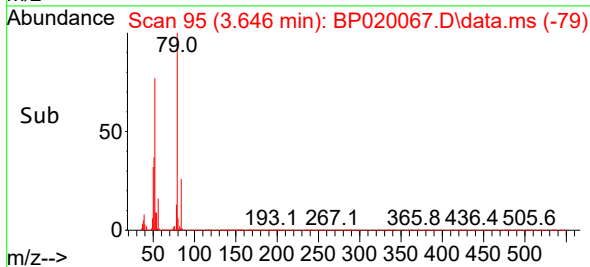
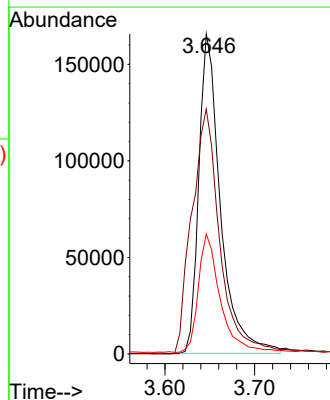
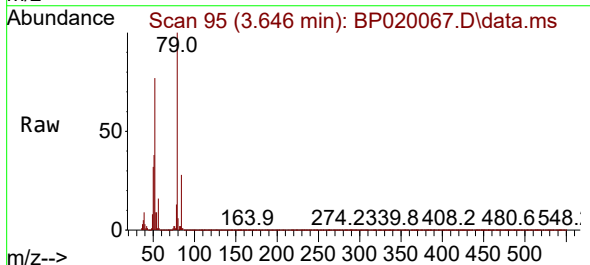
Instrument :
BNA_P
ClientSampleId :
SLCS401

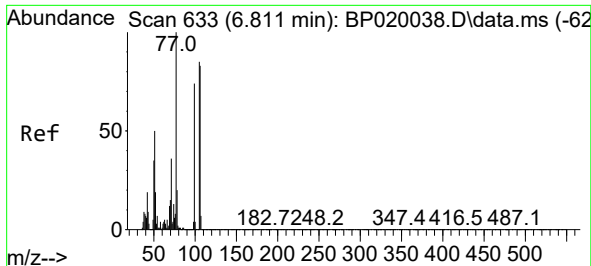
Tgt Ion: 88	Resp: 33033
Ion Ratio	Lower Upper
88 100	
43 37.2	26.6 40.0
58 78.2	61.4 92.2



#5
Pyridine
Concen: 30.015 ng/uL
RT: 3.646 min Scan# 95
Delta R.T. -0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion: 79	Resp: 277791
Ion Ratio	Lower Upper
79 100	
52 76.6	61.0 91.4
51 37.5	31.5 47.3

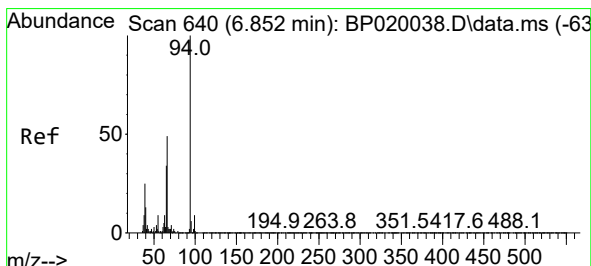
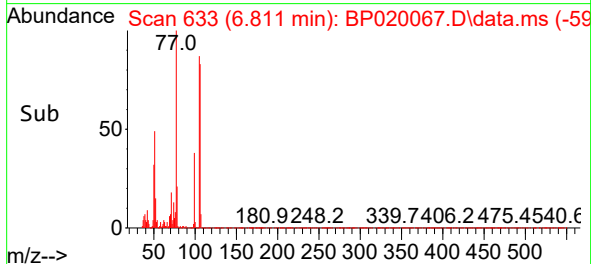
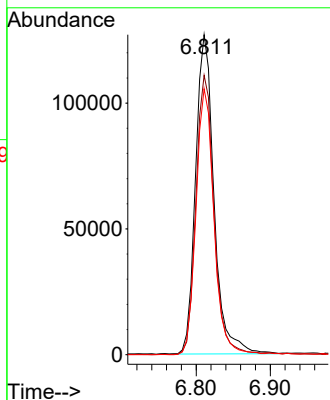
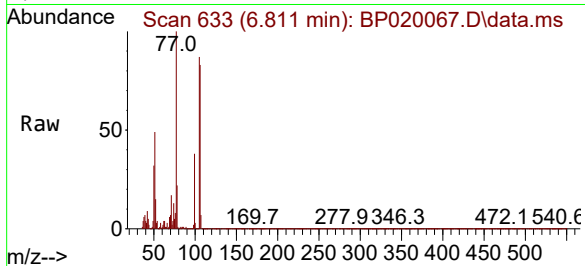




#6
Benzaldehyde
Concen: 33.862 ng/ul
RT: 6.811 min Scan# 611
Delta R.T. 0.000 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

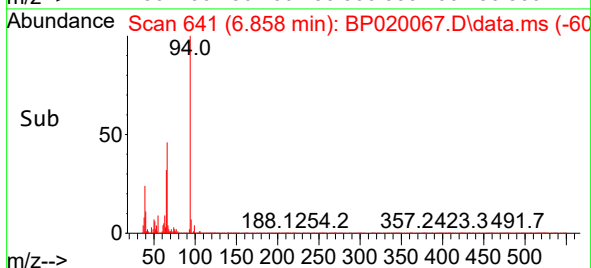
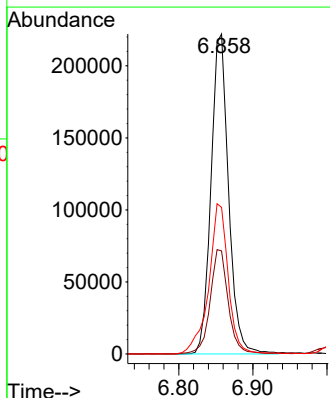
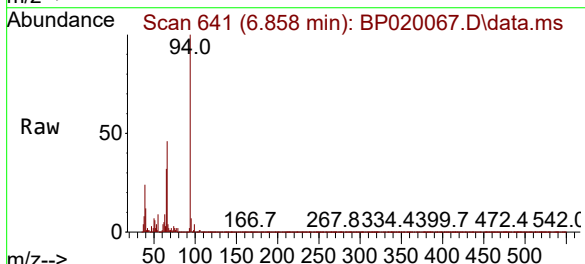
Instrument :
BNA_P
ClientSampleId :
SLCS401

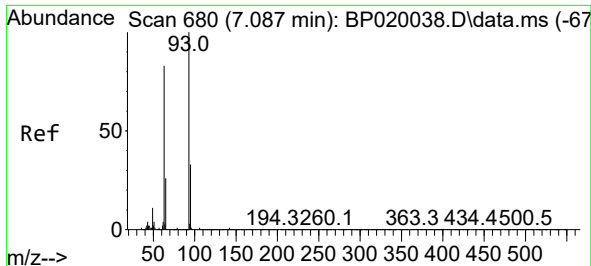
Tgt Ion: 77 Resp: 219522
Ion Ratio Lower Upper
77 100
105 87.3 68.7 103.1
106 83.1 63.7 95.5



#8
Phenol
Concen: 31.969 ng/ul
RT: 6.858 min Scan# 641
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion: 94 Resp: 365339
Ion Ratio Lower Upper
94 100
65 32.2 27.8 41.6
66 45.8 40.0 60.0





#10

Bis(2-Chloroethyl)ether

Concen: 30.939 ng/ul

RT: 7.087 min Scan# 680

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

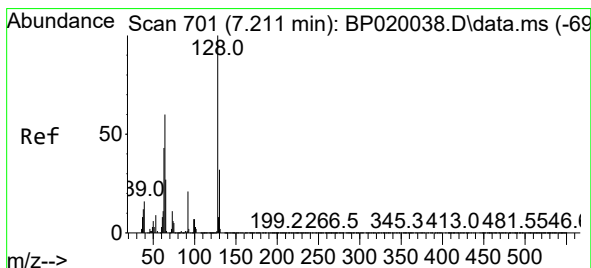
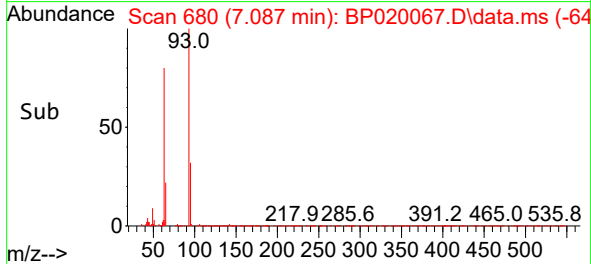
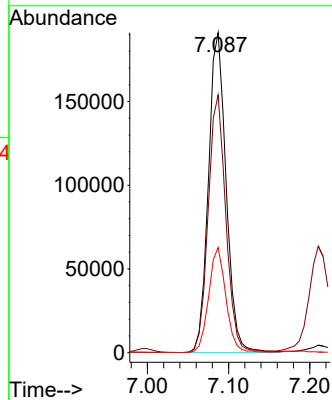
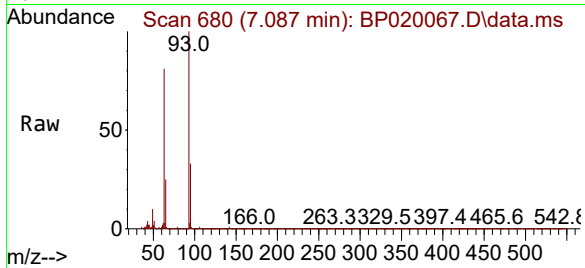
Tgt Ion: 93 Resp: 288704

Ion Ratio Lower Upper

93 100

63 80.6 68.6 102.8

95 32.8 26.6 39.8



#12

2-Chlorophenol

Concen: 34.127 ng/ul

RT: 7.211 min Scan# 701

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

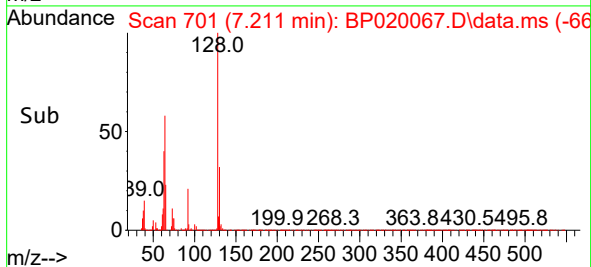
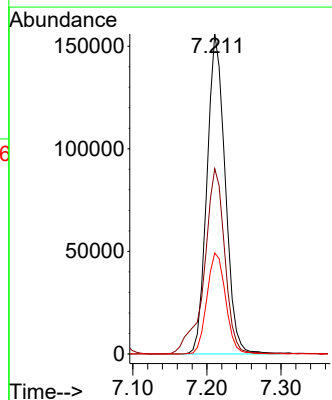
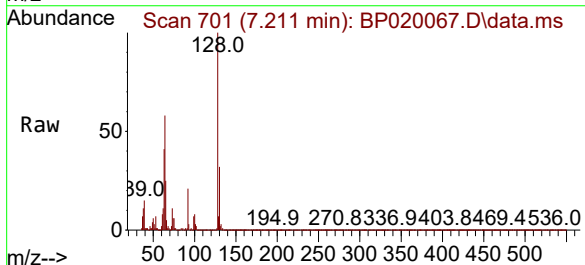
Tgt Ion:128 Resp: 266269

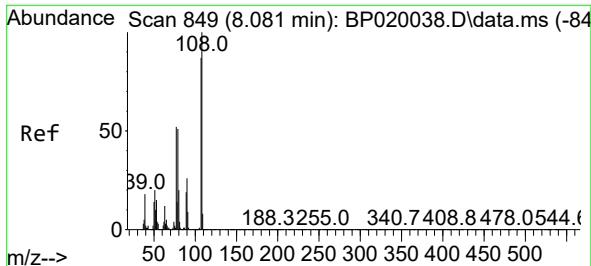
Ion Ratio Lower Upper

128 100

64 57.9 51.4 77.0

130 31.6 26.5 39.7





#13

2-Methylphenol

Concen: 30.793 ng/ul

RT: 8.087 min Scan# 8

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

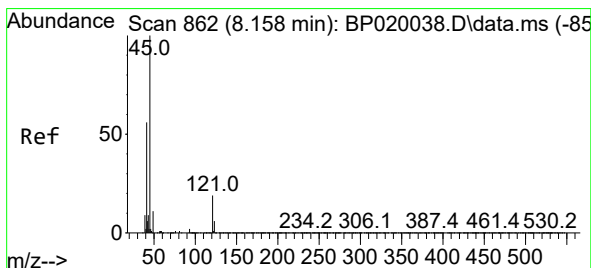
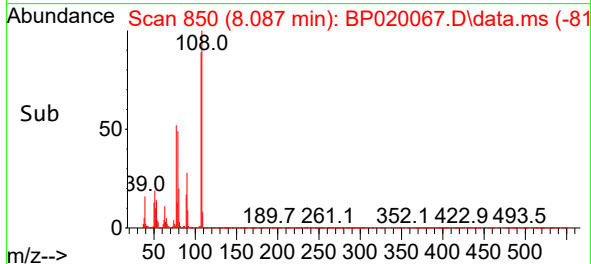
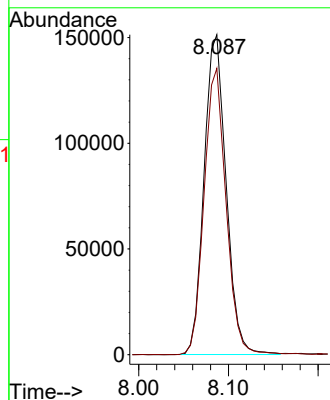
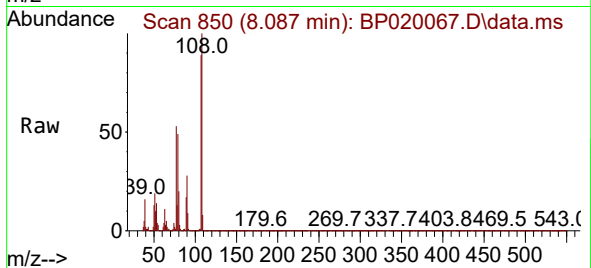
SLCS401

Tgt Ion:108 Resp: 257895

Ion Ratio Lower Upper

108 100

107 89.5 67.3 100.9



#14

2,2'-oxybis(1-Chloropropane)

Concen: 29.682 ng/ul

RT: 8.163 min Scan# 863

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

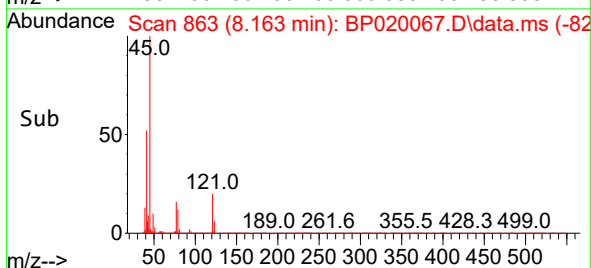
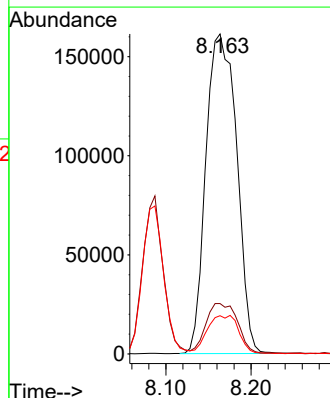
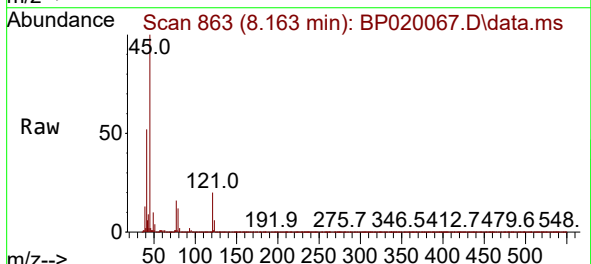
Tgt Ion: 45 Resp: 404821

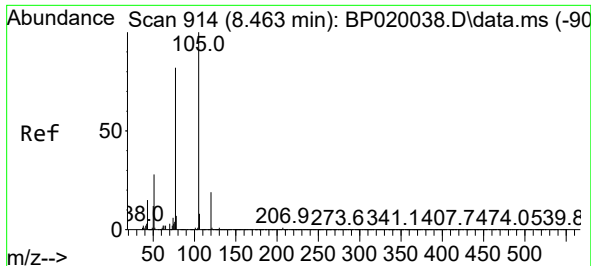
Ion Ratio Lower Upper

45 100

77 15.8 12.6 18.8

79 11.9 8.8 13.2

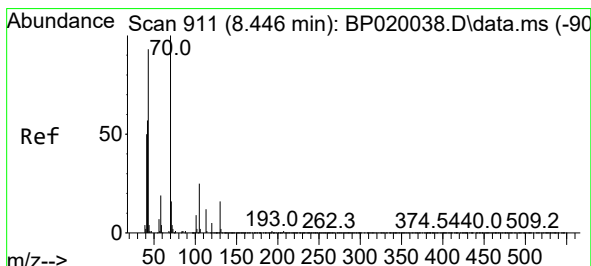
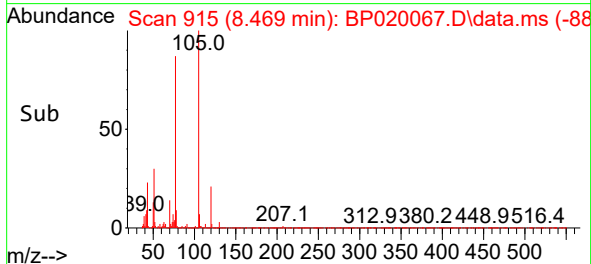
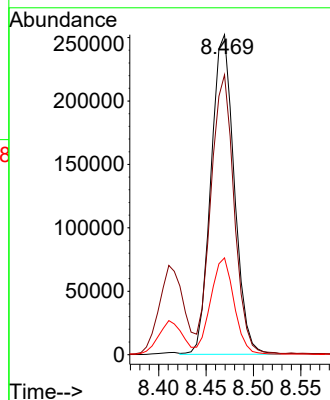
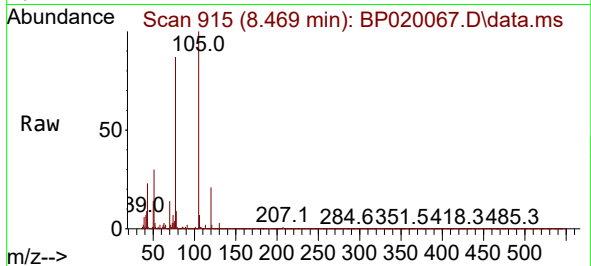




#16
Acetophenone
Concen: 29.667 ng/ul
RT: 8.469 min Scan# 914
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

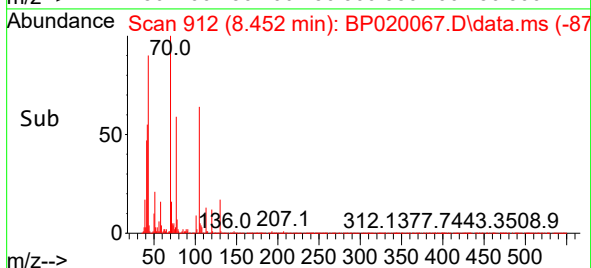
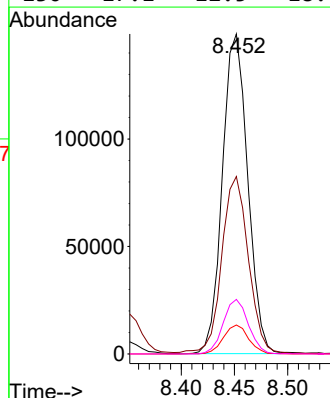
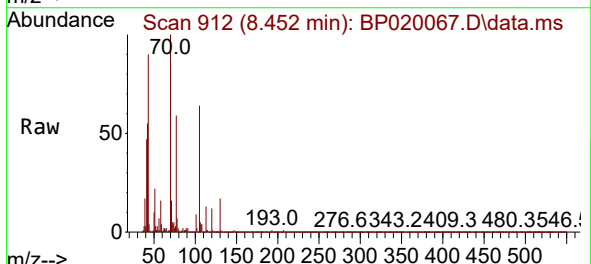
Instrument :
BNA_P
ClientSampleId :
SLCS401

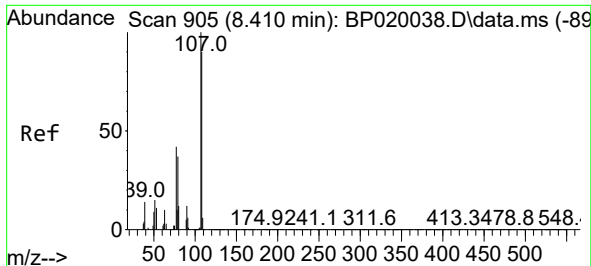
Tgt Ion:105 Resp: 430502
Ion Ratio Lower Upper
105 100
77 87.4 70.3 105.5
51 30.2 25.1 37.7



#17
N-Nitroso-di-n-propylamine
Concen: 28.969 ng/ul
RT: 8.452 min Scan# 912
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion: 70 Resp: 245559
Ion Ratio Lower Upper
70 100
42 55.4 47.8 71.6
101 9.0 6.5 9.7
130 17.1 12.5 18.7

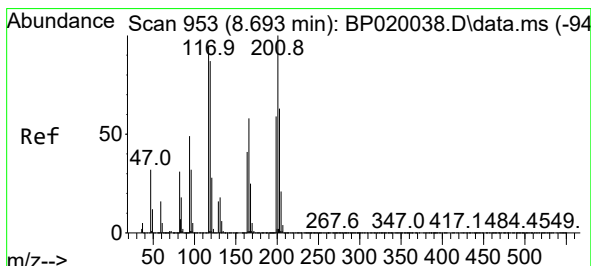
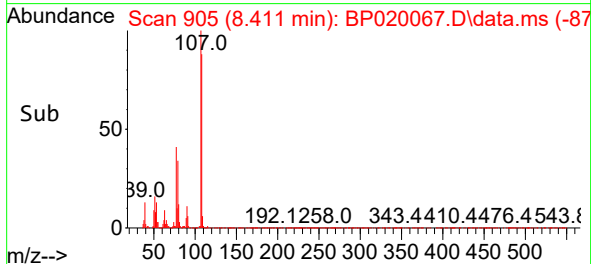
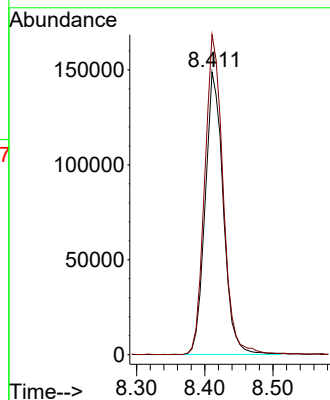
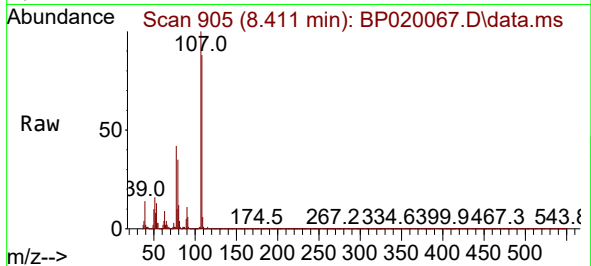




#18
4-Methylphenol
Concen: 30.855 ng/ul
RT: 8.411 min Scan# 905
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

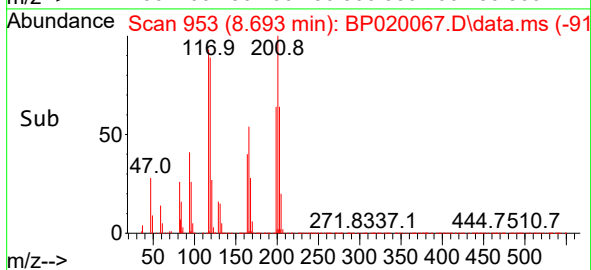
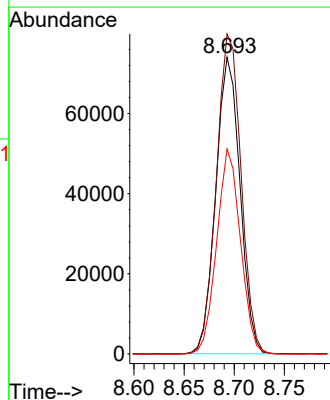
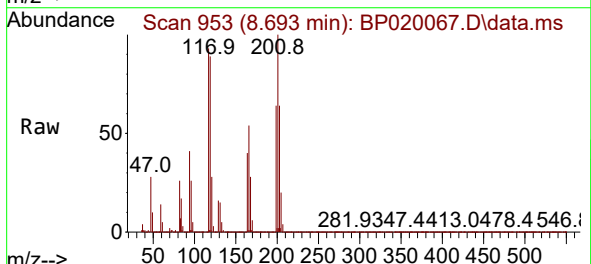
Instrument :
BNA_P
ClientSampleId :
SLCS401

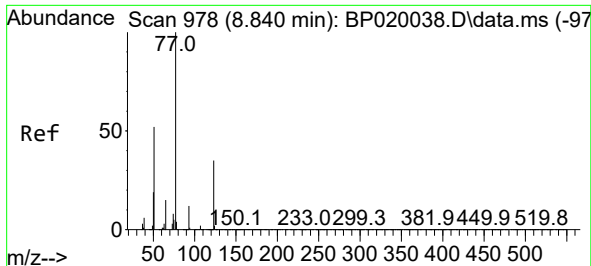
Tgt Ion:108 Resp: 274970
Ion Ratio Lower Upper
108 100
107 113.2 91.5 137.3



#19
Hexachloroethane
Concen: 32.418 ng/ul
RT: 8.693 min Scan# 953
Delta R.T. 0.000 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:117 Resp: 124494
Ion Ratio Lower Upper
117 100
201 107.9 87.8 131.6
199 69.1 55.0 82.6

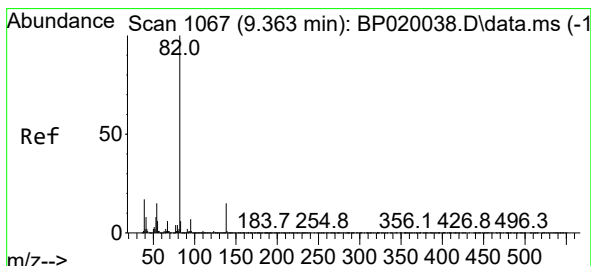
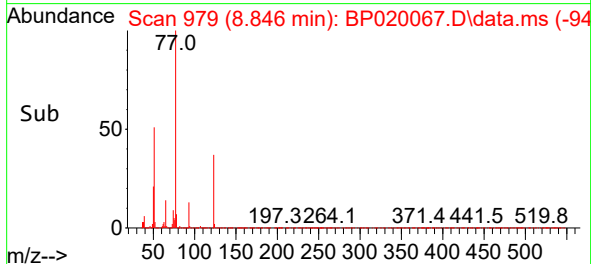
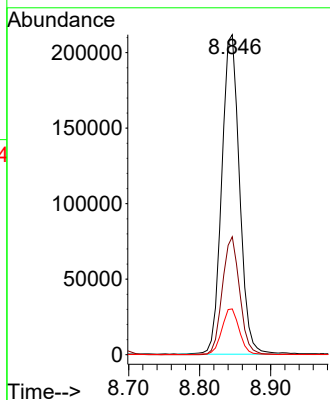
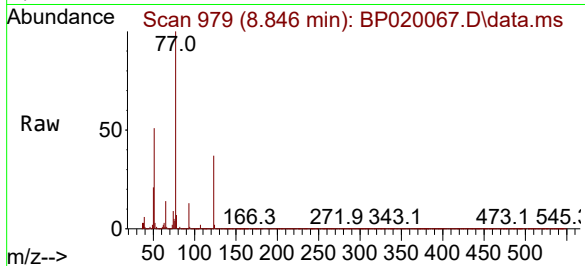




#22
Nitrobenzene
Concen: 32.833 ng/ul
RT: 8.846 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

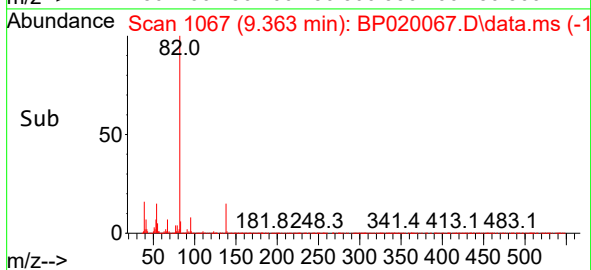
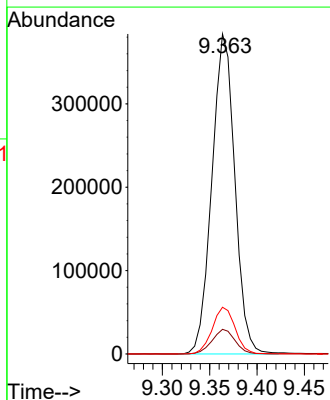
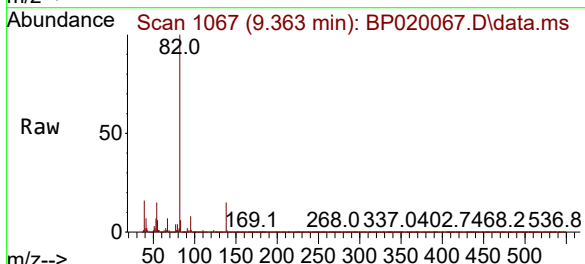
Instrument :
BNA_P
ClientSampleId :
SLCS401

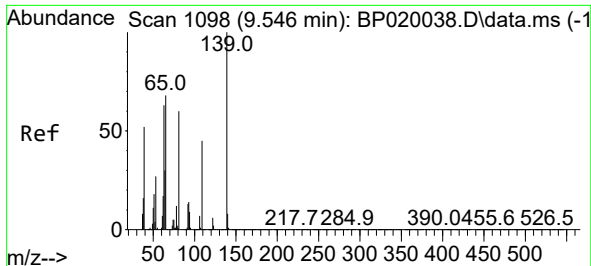
Tgt Ion: 77 Resp: 366943
Ion Ratio Lower Upper
77 100
123 36.9 28.5 42.7
65 14.3 11.7 17.5



#23
Isophorone
Concen: 31.157 ng/ul
RT: 9.363 min Scan# 1067
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion: 82 Resp: 646276
Ion Ratio Lower Upper
82 100
95 7.7 6.0 9.0
138 14.6 10.9 16.3

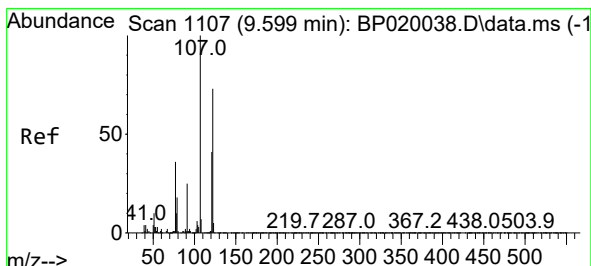
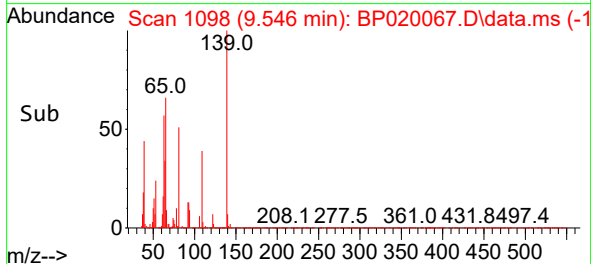
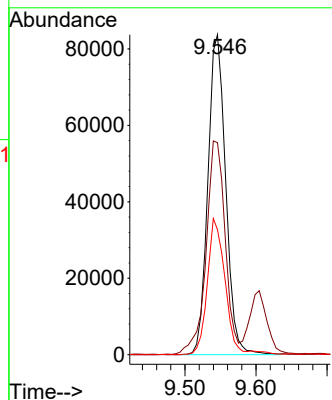
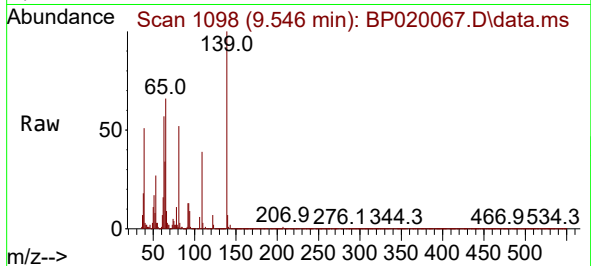




#25
2-Nitrophenol
Concen: 36.948 ng/ul
RT: 9.546 min Scan# 1108
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

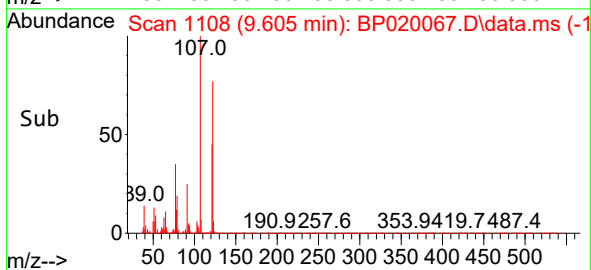
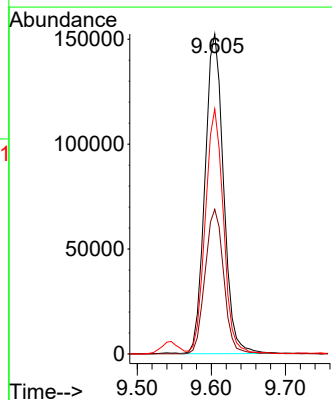
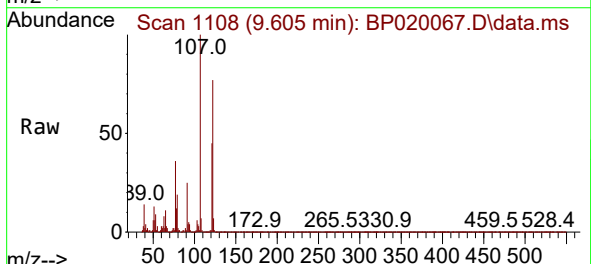
Instrument :
BNA_P
ClientSampleId :
SLCS401

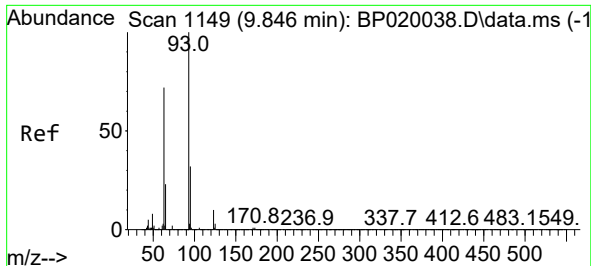
Tgt Ion:139 Resp: 145887
Ion Ratio Lower Upper
139 100
65 66.2 58.6 87.8
109 39.1 34.8 52.2



#26
2,4-Dimethylphenol
Concen: 28.081 ng/ul
RT: 9.605 min Scan# 1108
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:107 Resp: 265235
Ion Ratio Lower Upper
107 100
121 45.2 34.0 51.0
122 76.5 58.9 88.3





#27

Bis(2-Chloroethoxy)methane

Concen: 31.905 ng/ul

RT: 9.846 min Scan# 1149

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

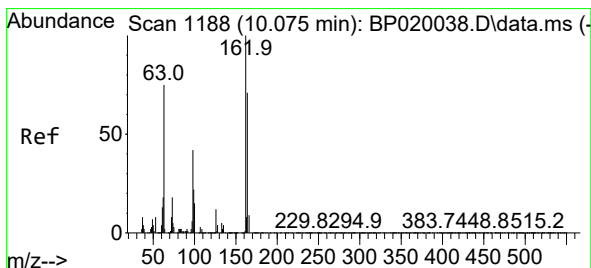
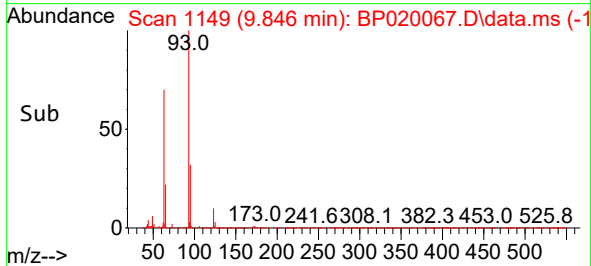
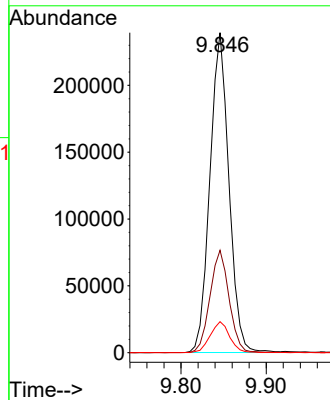
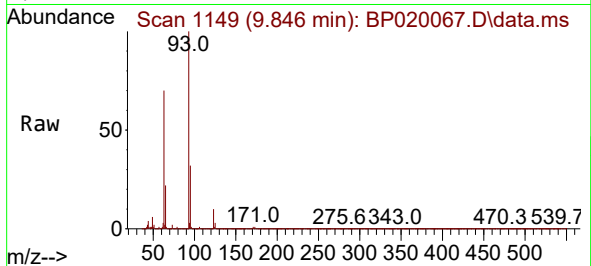
Tgt Ion: 93 Resp: 371078

Ion Ratio Lower Upper

93 100

95 32.0 25.4 38.0

123 9.7 7.5 11.3



#29

2,4-Dichlorophenol

Concen: 35.199 ng/ul

RT: 10.075 min Scan# 1188

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

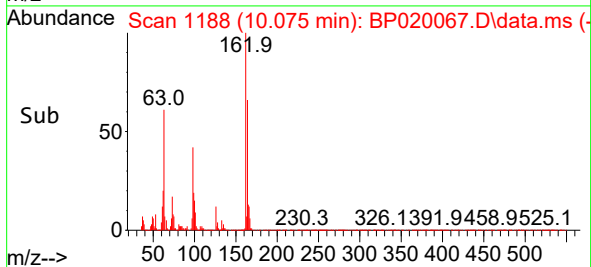
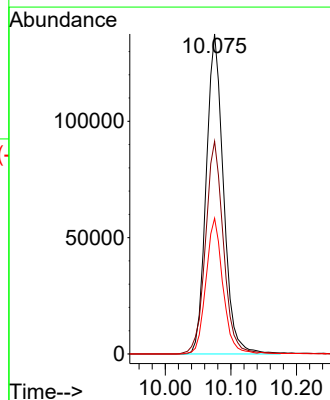
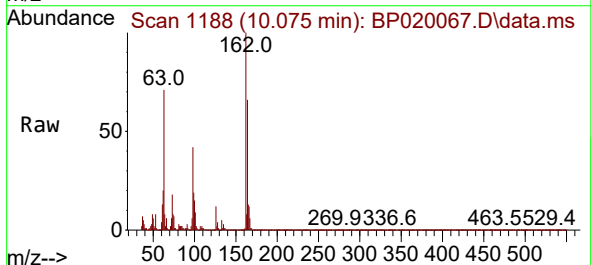
Tgt Ion:162 Resp: 252047

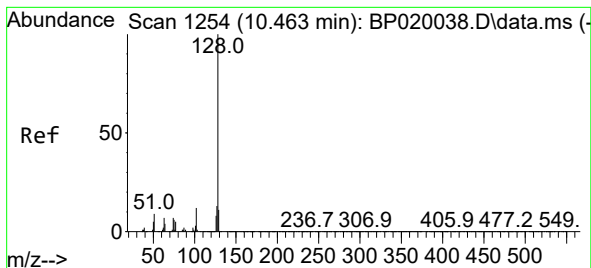
Ion Ratio Lower Upper

162 100

164 66.5 51.7 77.5

98 42.4 32.8 49.2

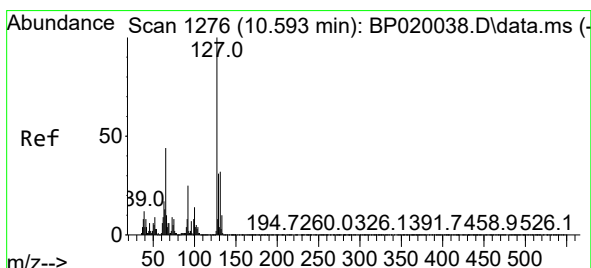
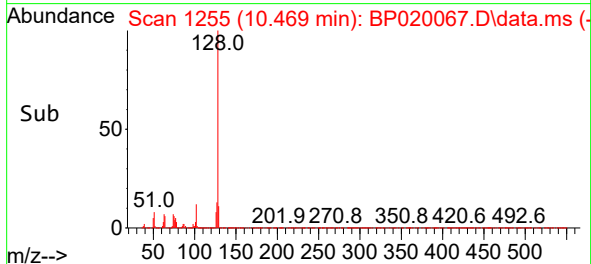
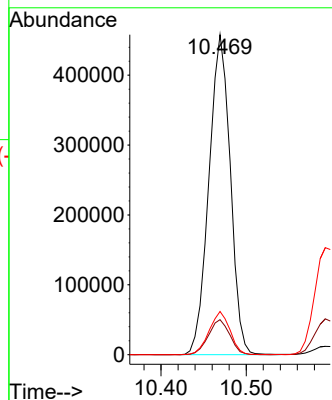
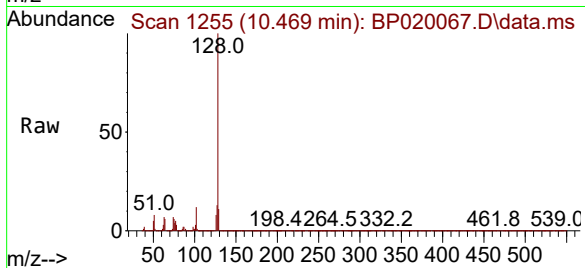




#30
Naphthalene
Concen: 32.314 ng/ul
RT: 10.469 min Scan# 1254
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

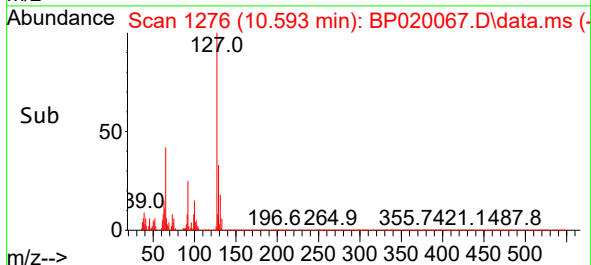
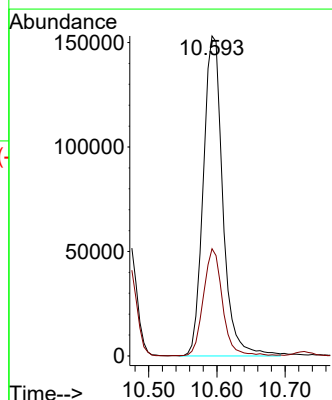
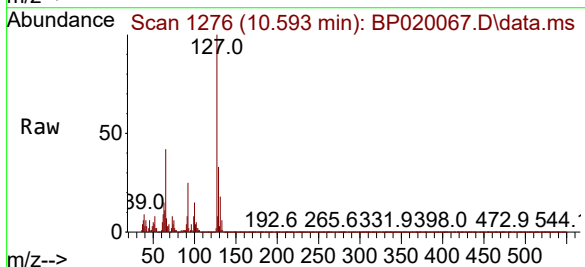
Instrument :
BNA_P
ClientSampleId :
SLCS401

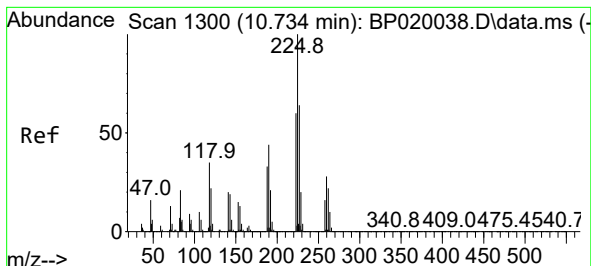
Tgt Ion:128 Resp: 798872
Ion Ratio Lower Upper
128 100
129 10.9 8.7 13.1
127 13.5 10.5 15.7



#32
4-Chloroaniline
Concen: 31.293 ng/ul
RT: 10.593 min Scan# 1276
Delta R.T. 0.000 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:127 Resp: 304784
Ion Ratio Lower Upper
127 100
129 33.5 25.9 38.9





#33

Hexachlorobutadiene

Concen: 34.042 ng/ul

RT: 10.728 min Scan# 1

Delta R.T. 0.000 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

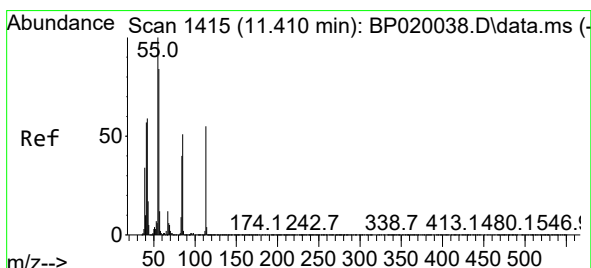
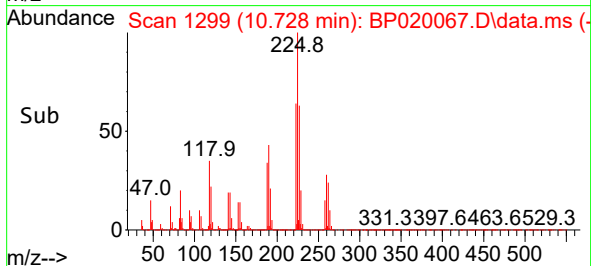
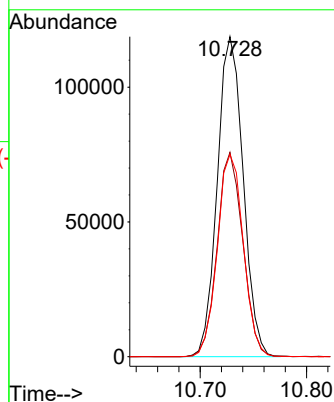
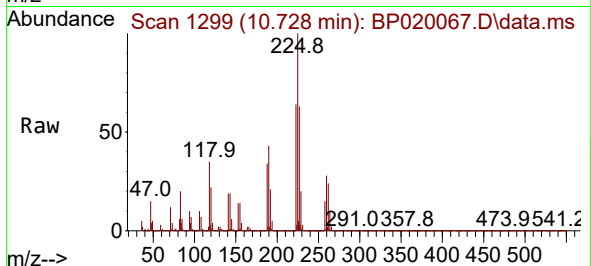
Tgt Ion:225 Resp: 200445

Ion Ratio Lower Upper

225 100

223 63.8 50.5 75.7

227 63.2 52.2 78.4



#34

Caprolactam

Concen: 26.226 ng/ul

RT: 11.404 min Scan# 1414

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

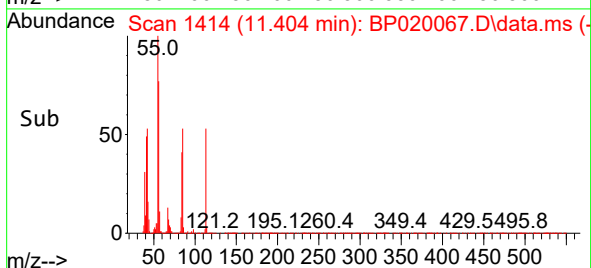
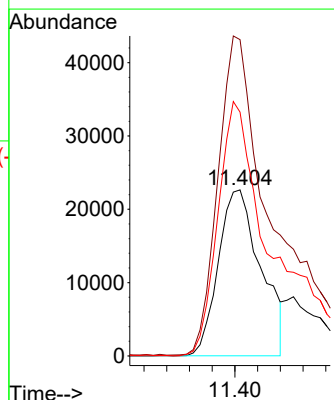
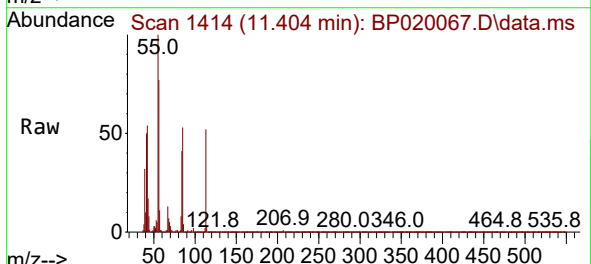
Tgt Ion:113 Resp: 58857

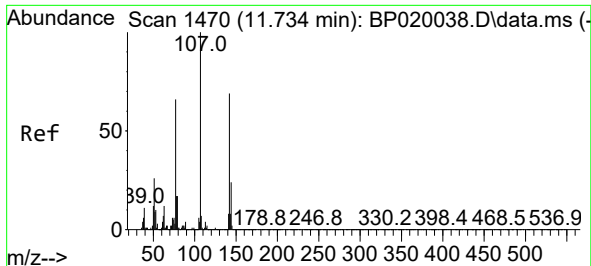
Ion Ratio Lower Upper

113 100

55 190.6 140.5 210.7

56 146.9 113.8 170.6

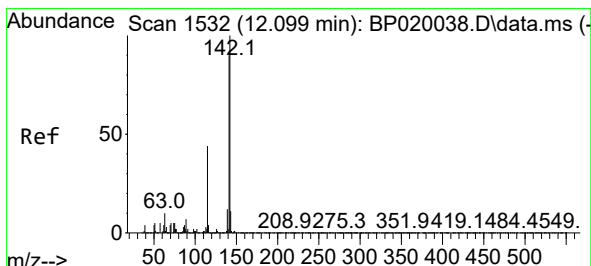
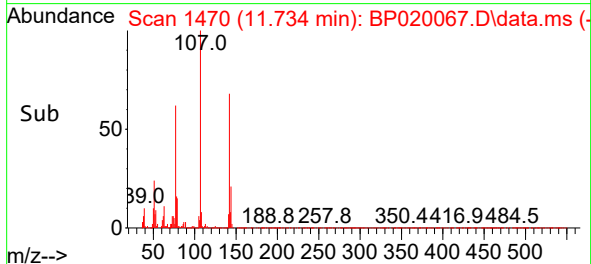
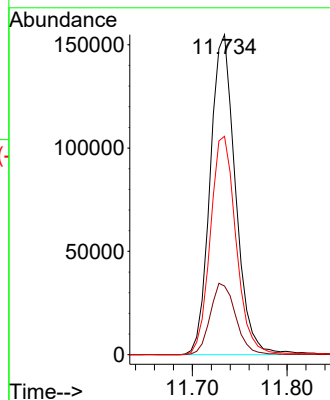
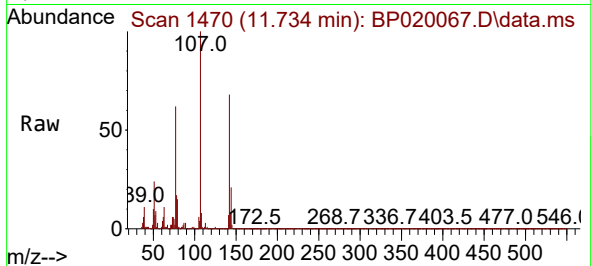




#35
4-Chloro-3-methylphenol
Concen: 33.333 ng/ul
RT: 11.734 min Scan# 1470
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

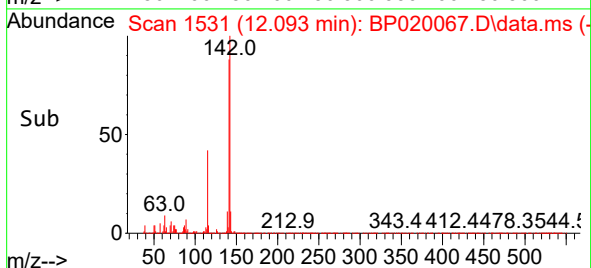
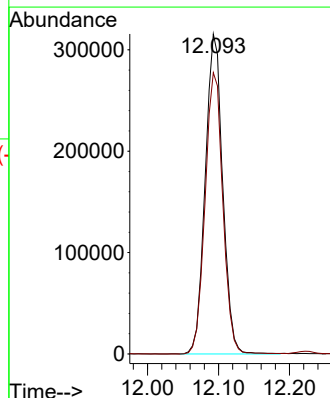
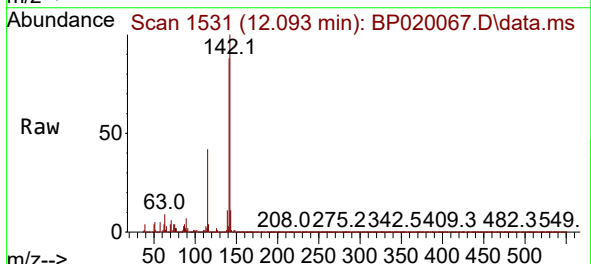
Instrument :
BNA_P
ClientSampleId :
SLCS401

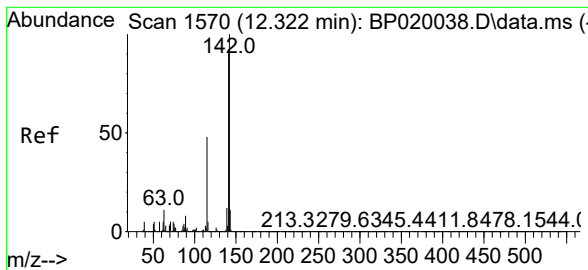
Tgt Ion:107 Resp: 286156
Ion Ratio Lower Upper
107 100
144 21.4 18.0 27.0
142 68.2 56.3 84.5



#36
2-Methylnaphthalene
Concen: 31.601 ng/ul
RT: 12.093 min Scan# 1531
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:142 Resp: 539353
Ion Ratio Lower Upper
142 100
141 87.9 72.1 108.1

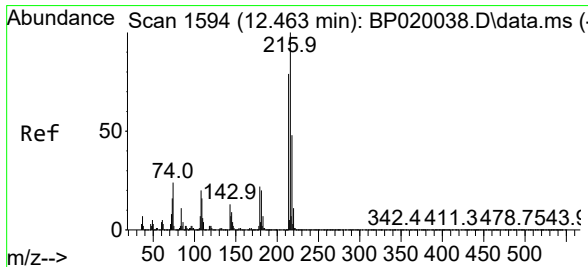
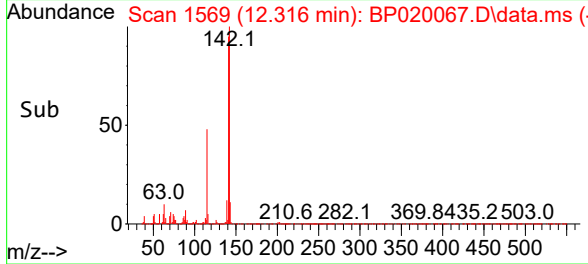
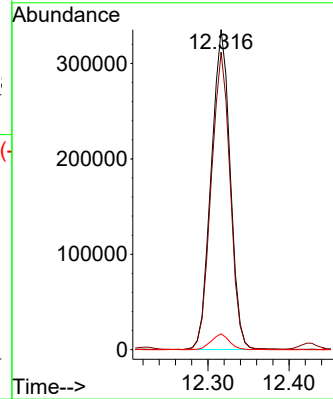
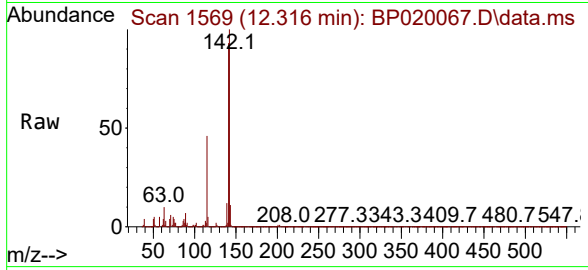




#37
1-Methylnaphthalene
Concen: 32.153 ng/ul
RT: 12.316 min Scan# 1569
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

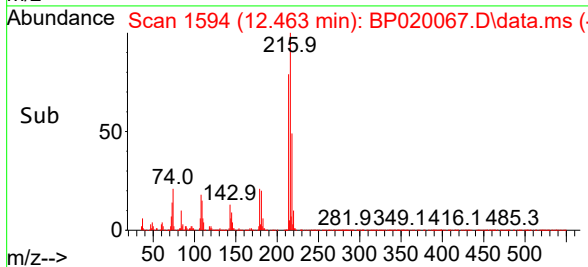
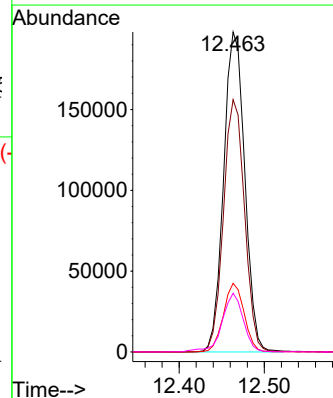
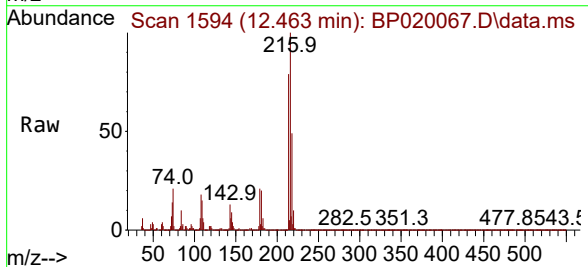
Instrument :
BNA_P
ClientSampleId :
SLCS401

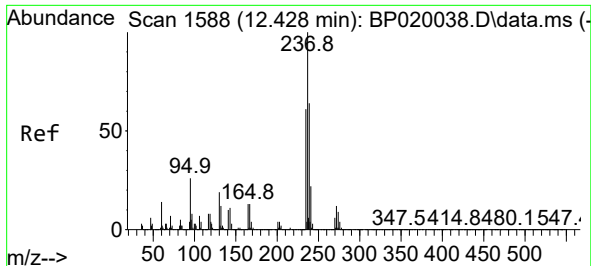
Tgt Ion:142 Resp: 544970
Ion Ratio Lower Upper
142 100
141 93.0 72.8 109.2
116 5.0 4.0 6.0



#39
1,2,4,5-Tetrachlorobenzene
Concen: 34.230 ng/ul
RT: 12.463 min Scan# 1594
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:216 Resp: 341734
Ion Ratio Lower Upper
216 100
214 78.9 64.2 96.2
179 21.4 17.3 25.9
108 18.3 16.8 25.2

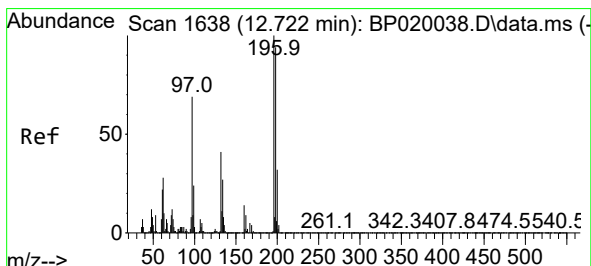
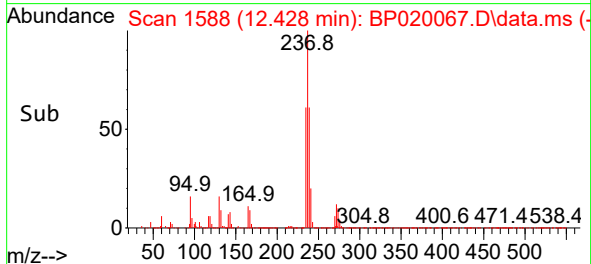
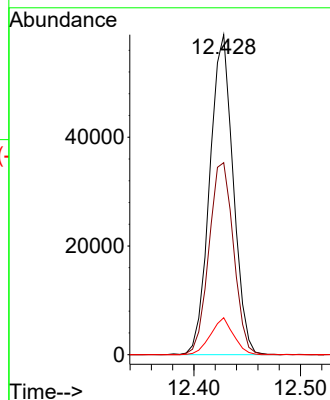
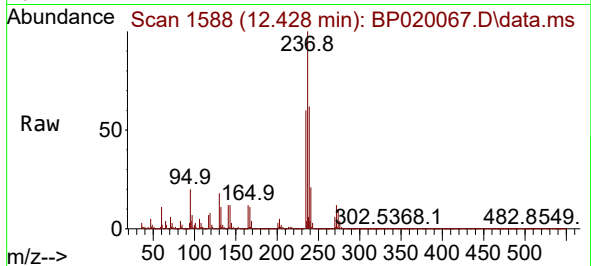




#40
Hexachlorocyclopentadiene
Concen: 15.616 ng/ul
RT: 12.428 min Scan# 1588
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

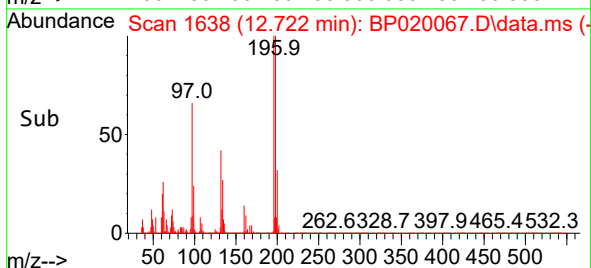
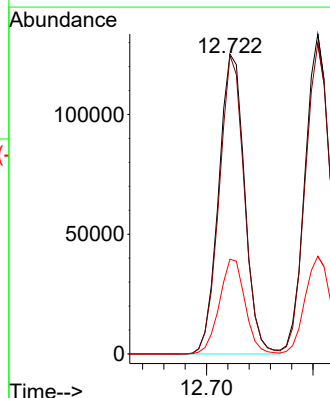
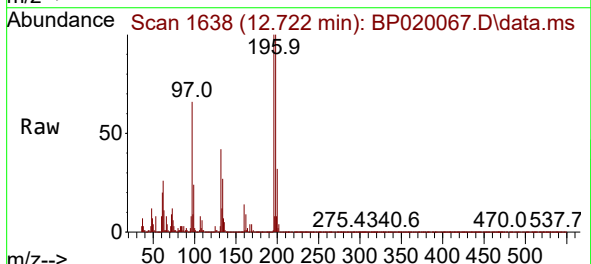
Instrument :
BNA_P
ClientSampleId :
SLCS401

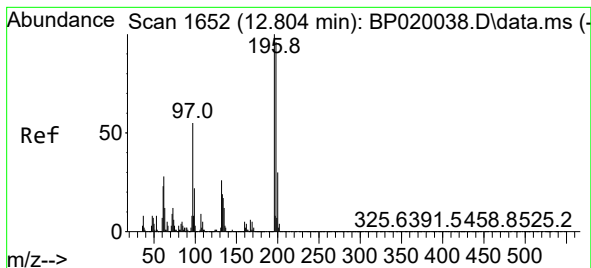
Tgt Ion:237	Resp:	89814
Ion Ratio	Lower	Upper
237	100	
235	60.0	48.2 72.4
272	12.2	9.4 14.0



#41
2,4,6-Trichlorophenol
Concen: 35.454 ng/ul
RT: 12.722 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:196	Resp:	212085
Ion Ratio	Lower	Upper
196	100	
198	99.7	78.8 118.2
200	31.6	24.9 37.3





#42

2,4,5-Trichlorophenol

Concen: 37.140 ng/ul

RT: 12.804 min Scan# 1652

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

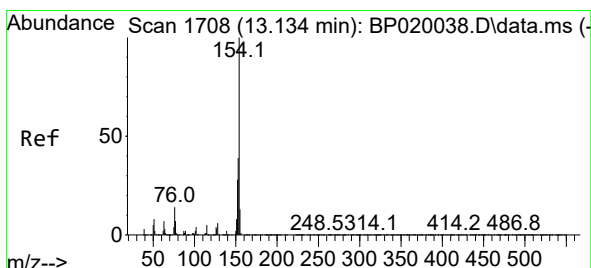
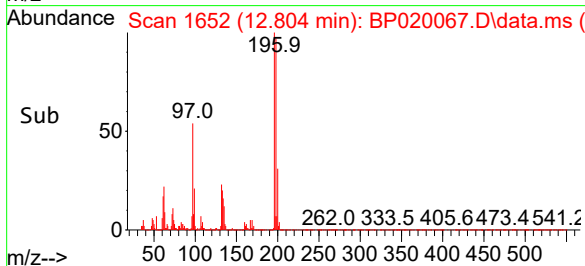
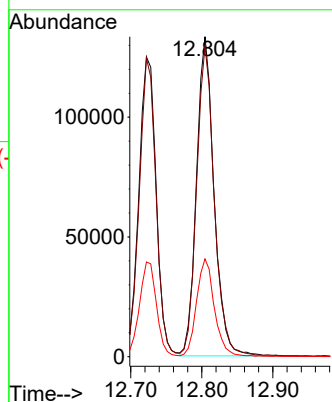
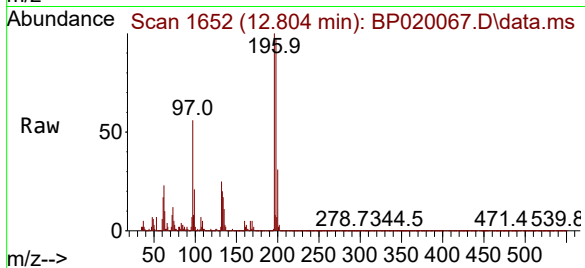
Tgt Ion:196 Resp: 230942

Ion Ratio Lower Upper

196 100

198 97.0 77.5 116.3

200 30.5 24.5 36.7



#43

1,1'-Biphenyl

Concen: 32.755 ng/ul

RT: 13.134 min Scan# 1708

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

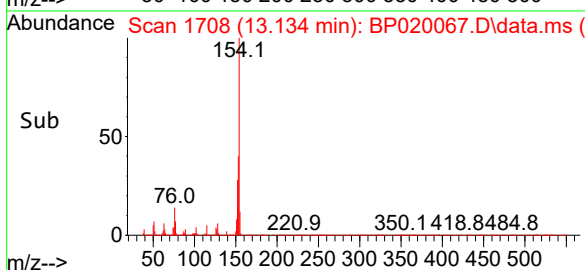
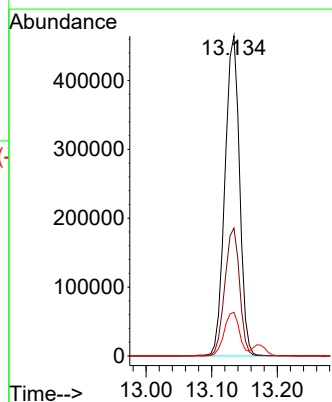
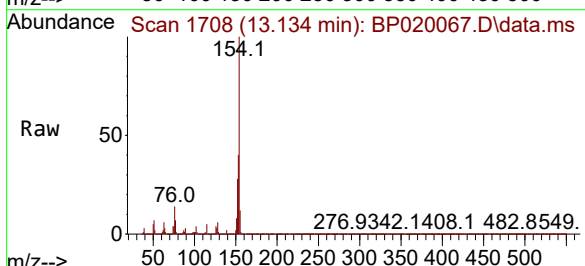
Tgt Ion:154 Resp: 719378

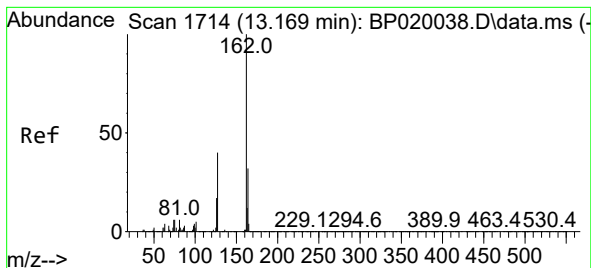
Ion Ratio Lower Upper

154 100

153 39.9 32.2 48.4

76 13.7 11.3 16.9





#44

2-Chloronaphthalene

Concen: 32.326 ng/ul

RT: 13.175 min Scan# 1715

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

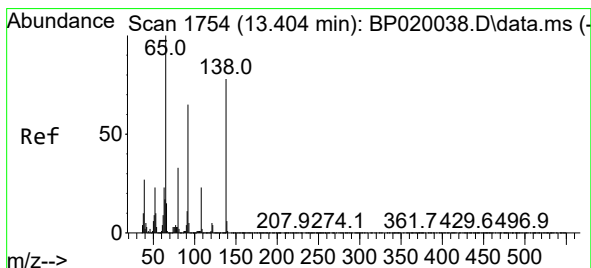
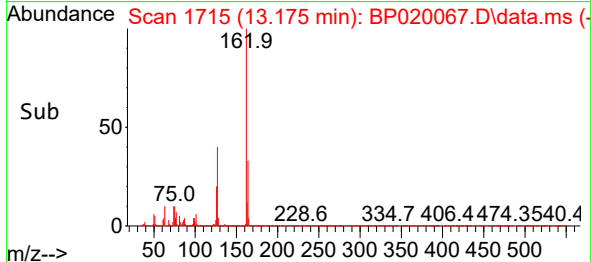
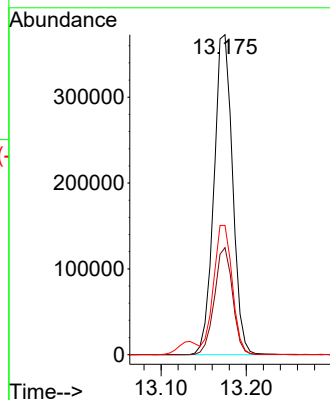
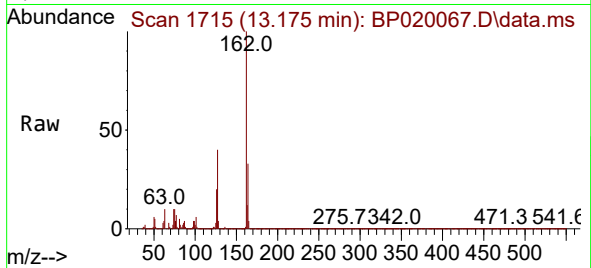
Tgt Ion:162 Resp: 567155

Ion Ratio Lower Upper

162 100

164 33.5 27.0 40.6

127 40.4 33.7 50.5



#45

2-Nitroaniline

Concen: 37.050 ng/ul

RT: 13.404 min Scan# 1754

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

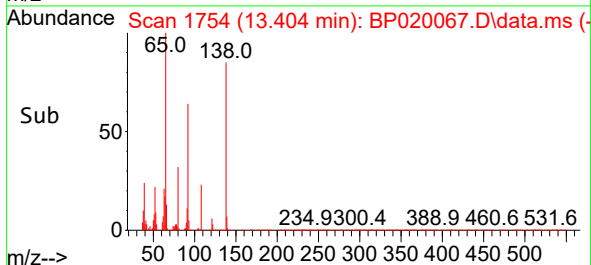
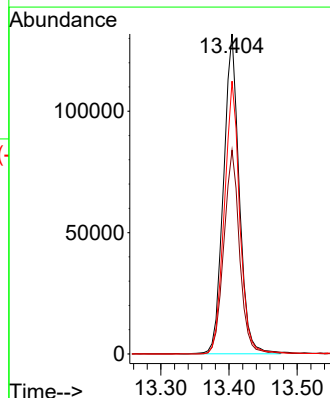
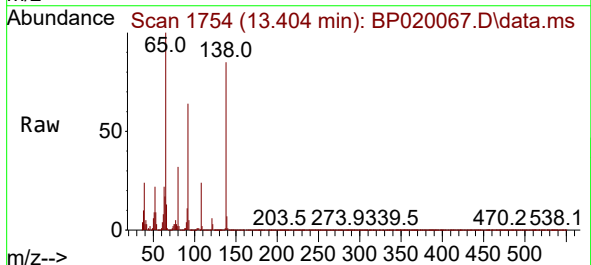
Tgt Ion: 65 Resp: 211193

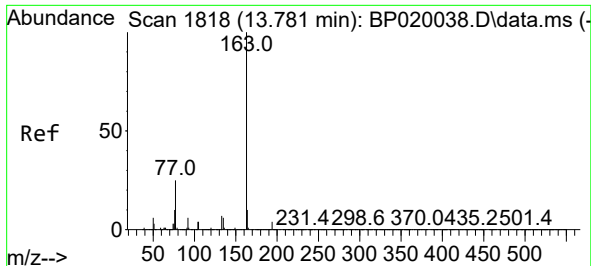
Ion Ratio Lower Upper

65 100

92 63.7 49.4 74.0

138 85.2 62.2 93.4





#47

Dimethylphthalate

Concen: 32.542 ng/ul

RT: 13.787 min Scan# 1818

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

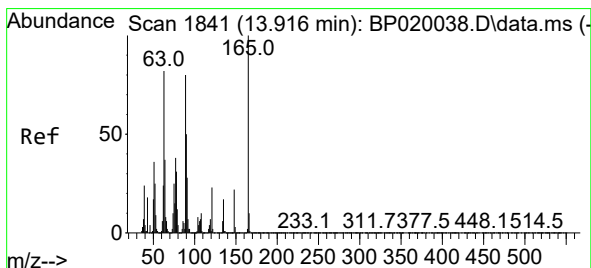
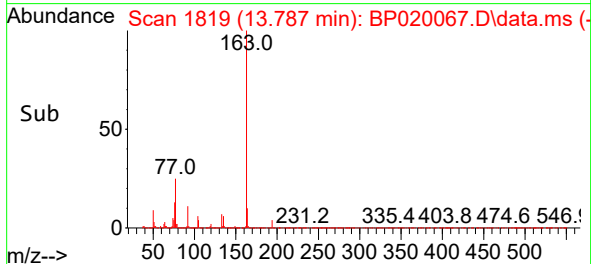
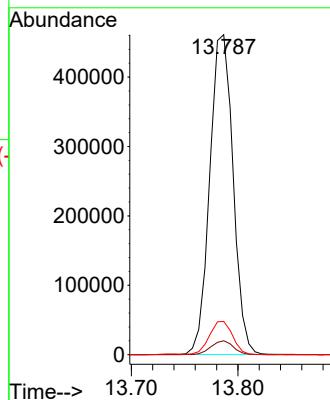
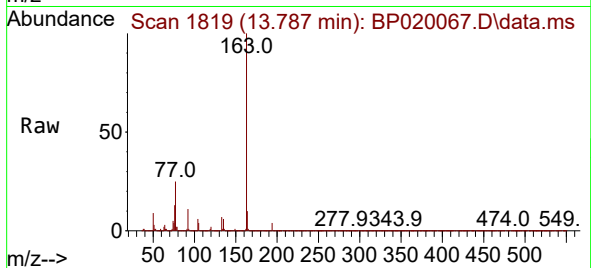
Tgt Ion:163 Resp: 699578

Ion Ratio Lower Upper

163 100

194 4.4 3.3 4.9

164 10.4 8.1 12.1



#48

2,6-Dinitrotoluene

Concen: 36.498 ng/ul

RT: 13.916 min Scan# 1841

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

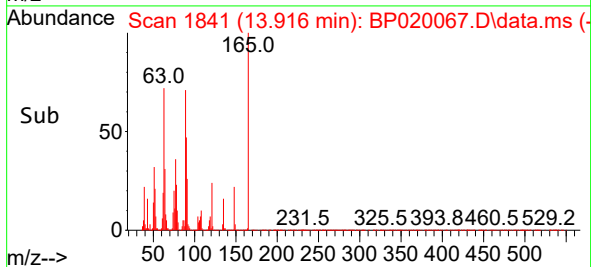
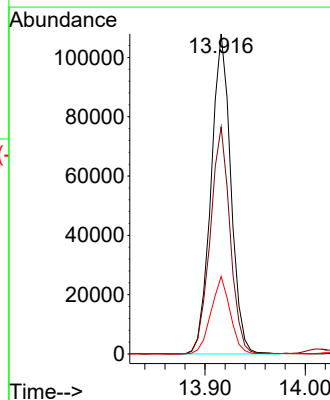
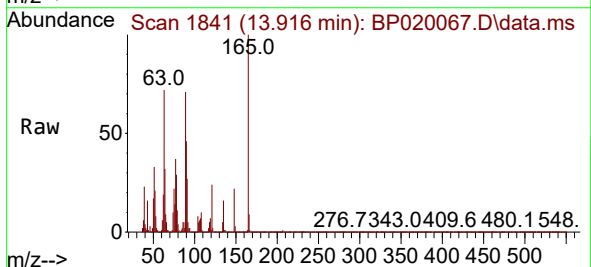
Tgt Ion:165 Resp: 148061

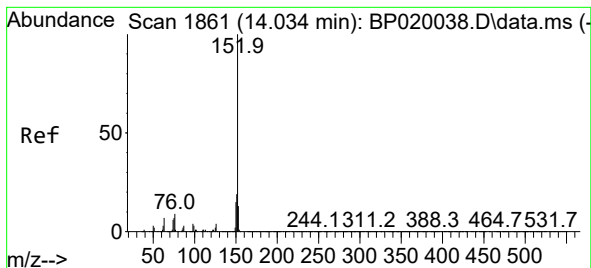
Ion Ratio Lower Upper

165 100

89 70.9 61.0 91.4

121 24.2 18.7 28.1





#50

Acenaphthylene

Concen: 31.580 ng/ul

RT: 14.040 min Scan# 1862

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

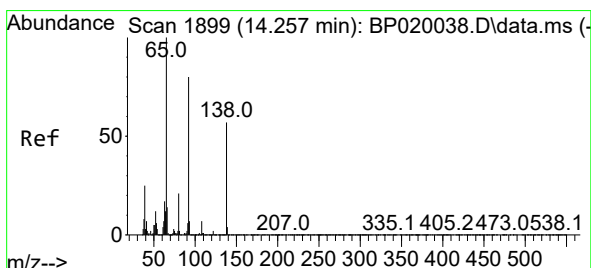
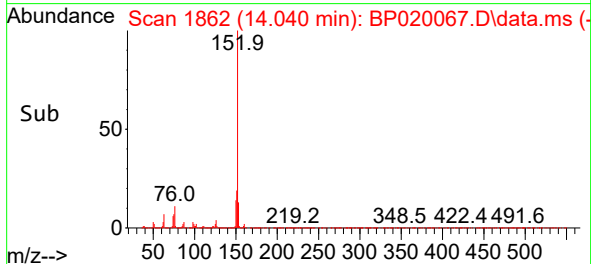
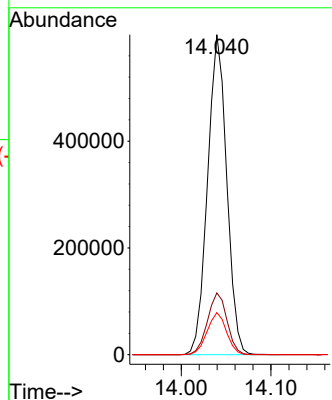
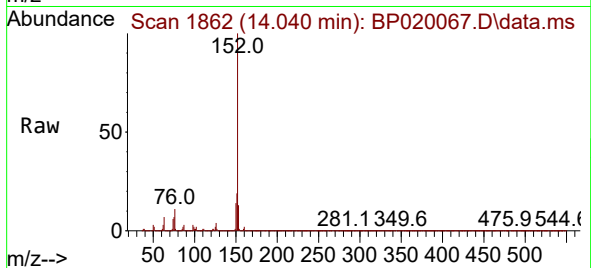
Tgt Ion:152 Resp: 888270

Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 13.1 10.6 16.0



#51

3-Nitroaniline

Concen: 38.779 ng/ul

RT: 14.251 min Scan# 1898

Delta R.T. 0.000 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

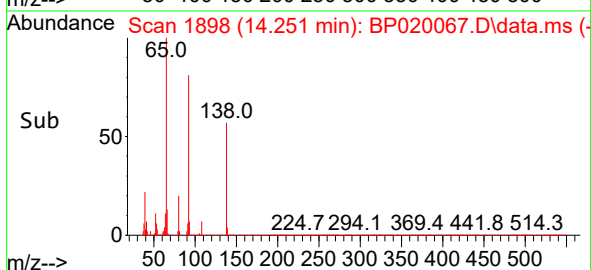
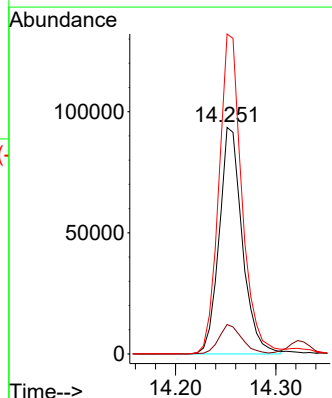
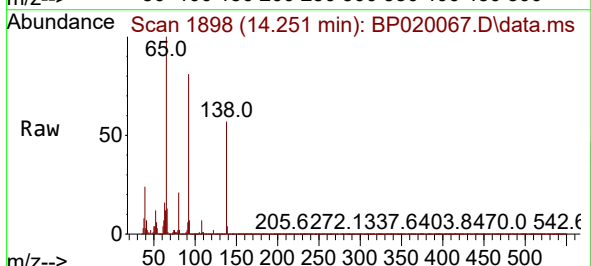
Tgt Ion:138 Resp: 148898

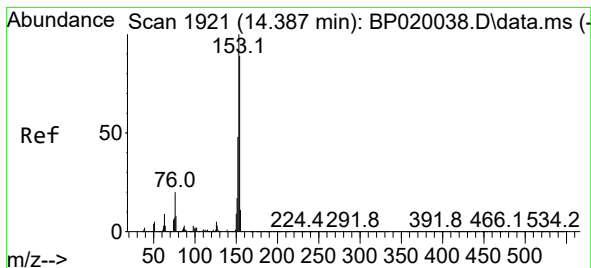
Ion Ratio Lower Upper

138 100

108 13.0 10.4 15.6

92 141.2 108.4 162.6





#52

Acenaphthene

Concen: 31.763 ng/ul

RT: 14.393 min Scan# 1922

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

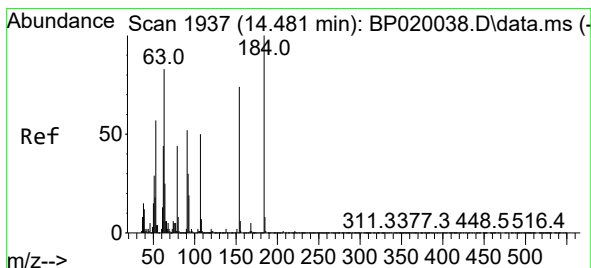
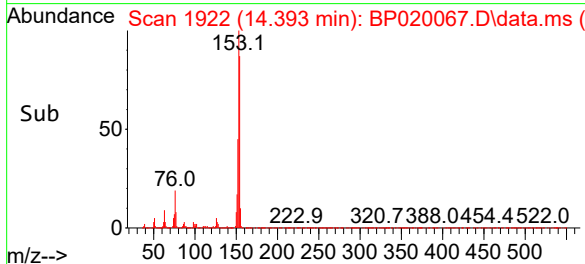
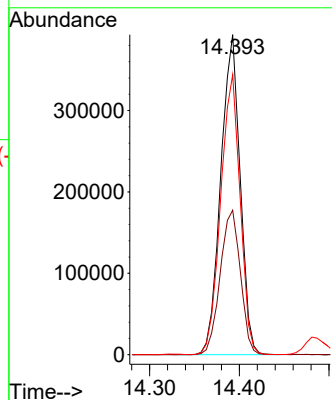
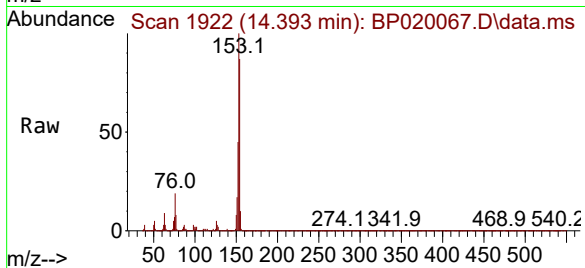
Tgt Ion:153 Resp: 588924

Ion Ratio Lower Upper

153 100

152 45.1 37.9 56.9

154 87.5 71.4 107.2



#53

2,4-Dinitrophenol

Concen: 21.809 ng/ul

RT: 14.487 min Scan# 1938

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

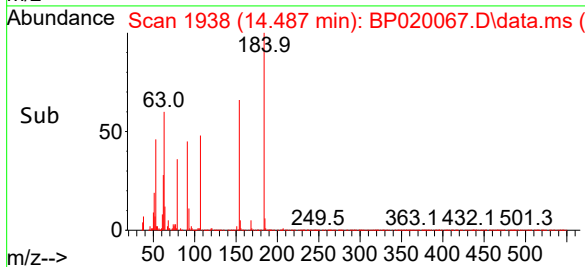
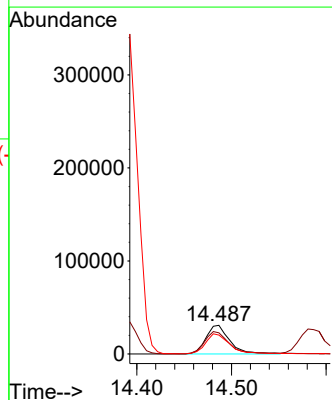
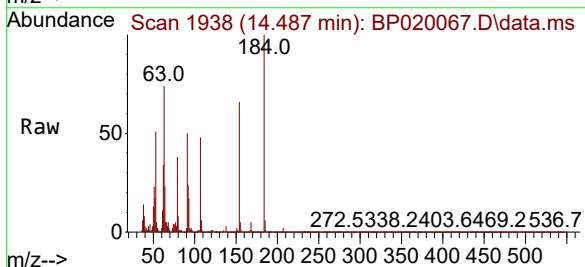
Tgt Ion:184 Resp: 53201

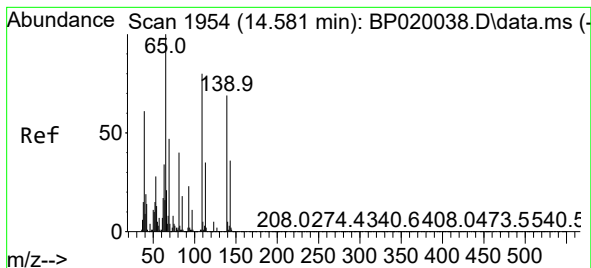
Ion Ratio Lower Upper

184 100

63 73.7 65.0 97.6

154 66.0 55.4 83.2

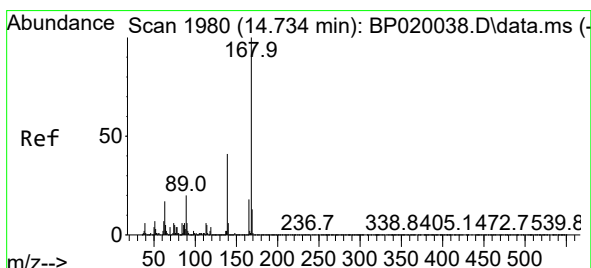
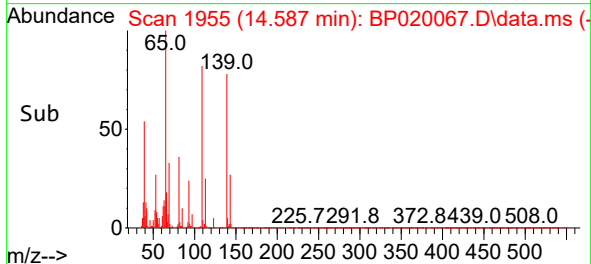
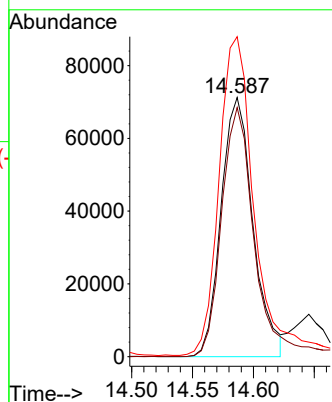
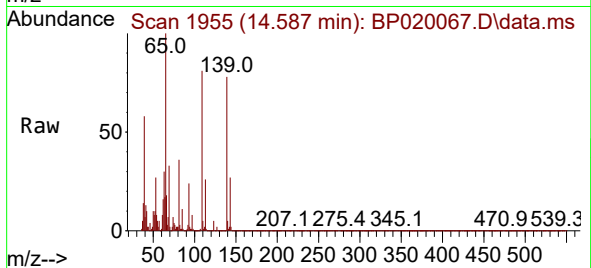




#55
4-Nitrophenol
Concen: 35.761 ng/ul
RT: 14.587 min Scan# 1954
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

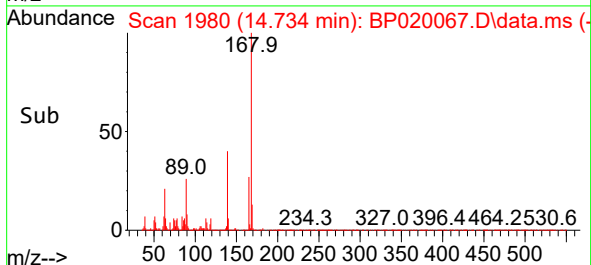
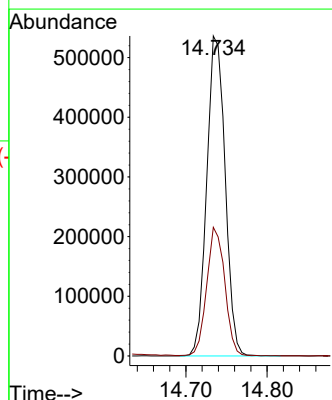
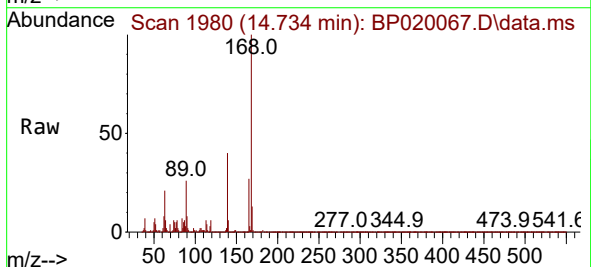
Instrument :
BNA_P
ClientSampleId :
SLCS401

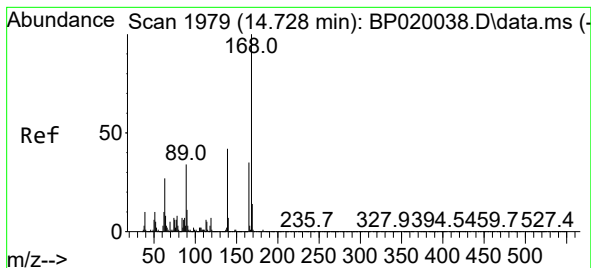
Tgt Ion:109 Resp: 129848
Ion Ratio Lower Upper
109 100
139 96.1 77.9 116.9
65 123.5 100.9 151.3



#56
Dibenzofuran
Concen: 32.945 ng/ul
RT: 14.734 min Scan# 1980
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:168 Resp: 843365
Ion Ratio Lower Upper
168 100
139 40.2 32.6 49.0





#57

2,4-Dinitrotoluene

Concen: 37.370 ng/ul

RT: 14.734 min Scan# 1979

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

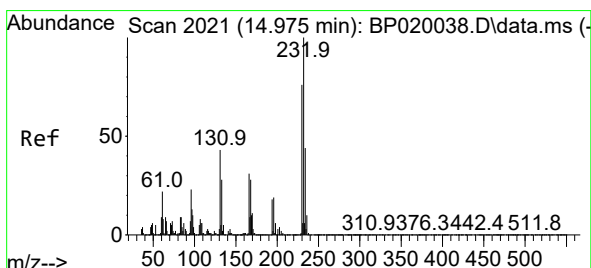
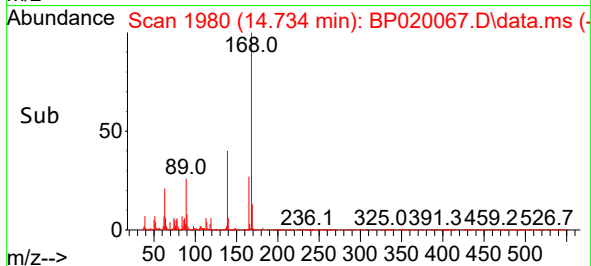
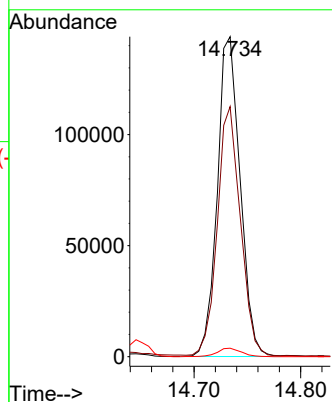
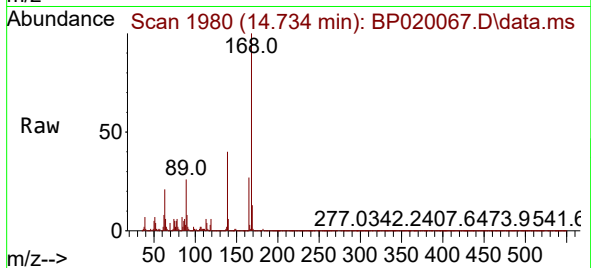
Tgt Ion:165 Resp: 214609

Ion Ratio Lower Upper

165 100

63 78.2 70.2 105.4

182 2.7 2.0 3.0



#58

2,3,4,6-Tetrachlorophenol

Concen: 37.015 ng/ul

RT: 14.975 min Scan# 2021

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Tgt Ion:232 Resp: 199317

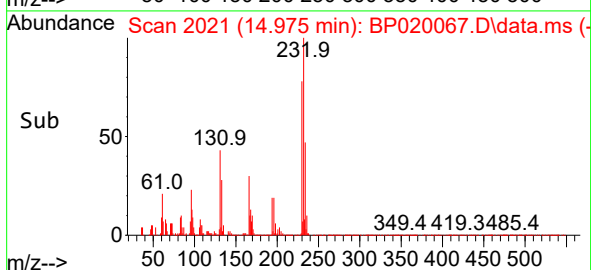
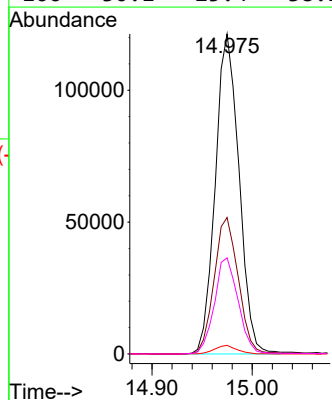
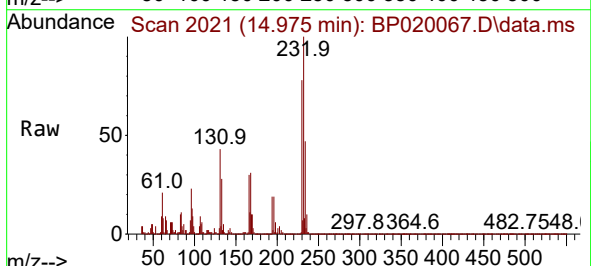
Ion Ratio Lower Upper

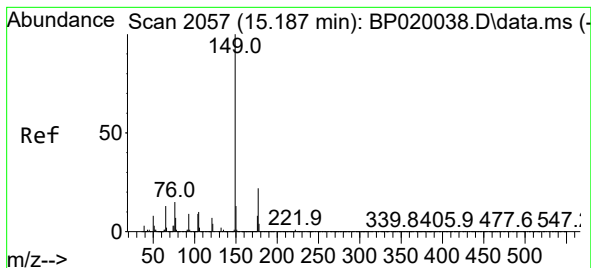
232 100

131 42.7 34.5 51.7

130 2.7 2.4 3.6

166 30.1 25.4 38.2





#59

Diethylphthalate

Concen: 32.855 ng/ul

RT: 15.187 min Scan# 2057

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

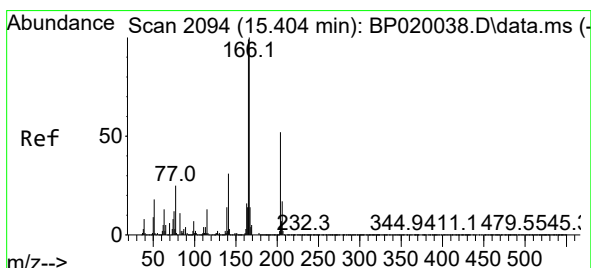
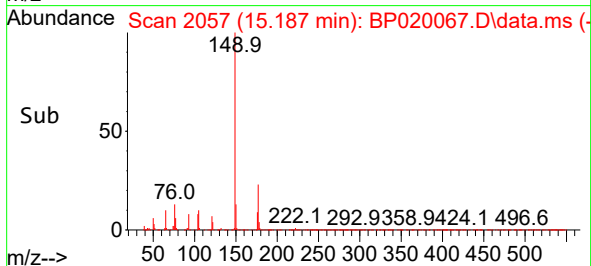
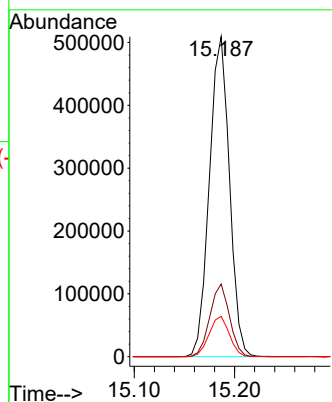
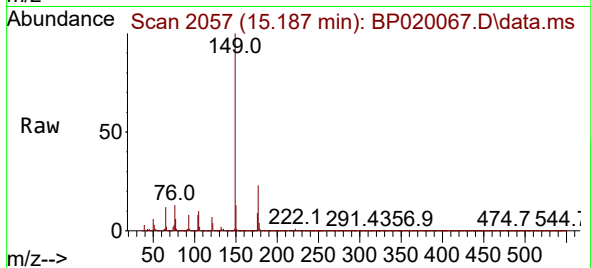
Tgt Ion:149 Resp: 709267

Ion Ratio Lower Upper

149 100

177 22.7 16.9 25.3

150 12.6 9.9 14.9



#61

Fluorene

Concen: 32.525 ng/ul

RT: 15.410 min Scan# 2095

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

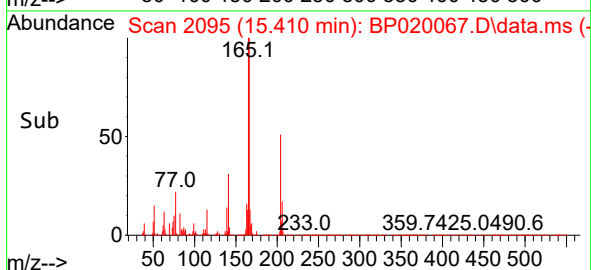
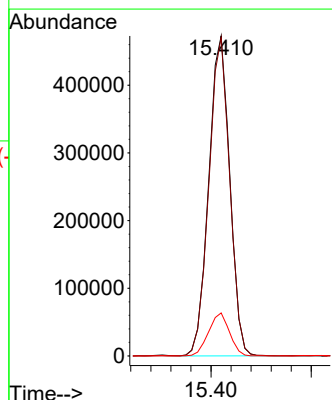
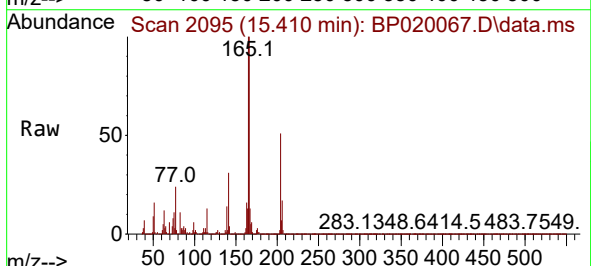
Tgt Ion:166 Resp: 687955

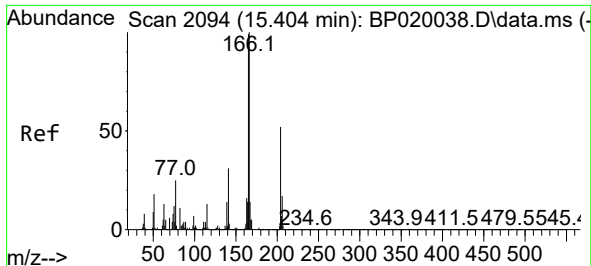
Ion Ratio Lower Upper

166 100

165 99.5 78.2 117.4

167 13.4 10.9 16.3

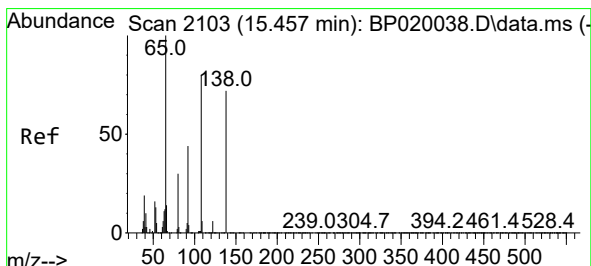
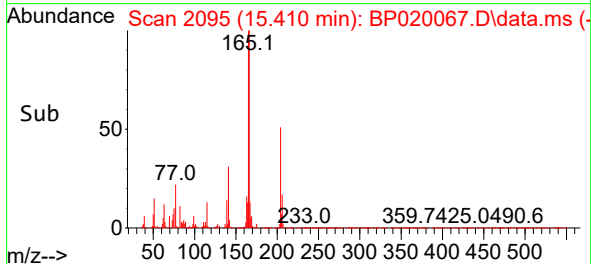
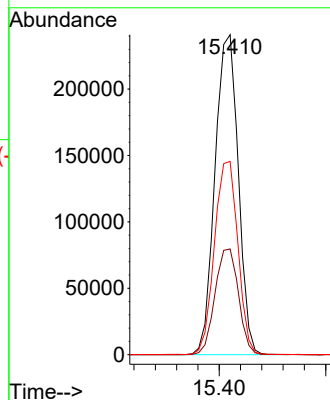
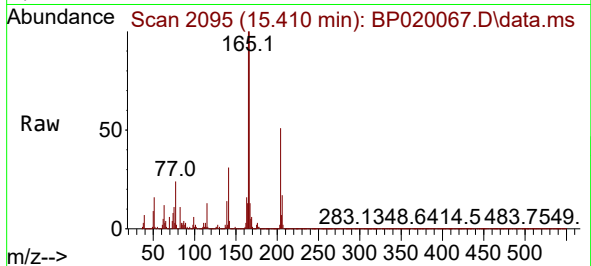




#62
4-Chlorophenyl-phenylether
Concen: 31.758 ng/ul
RT: 15.410 min Scan# 2095
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

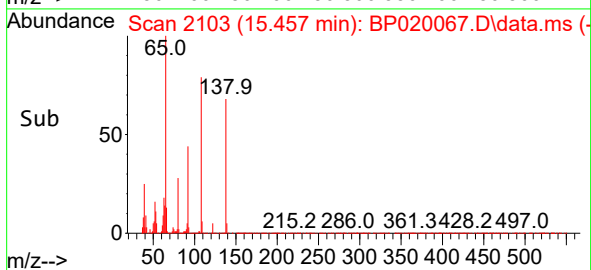
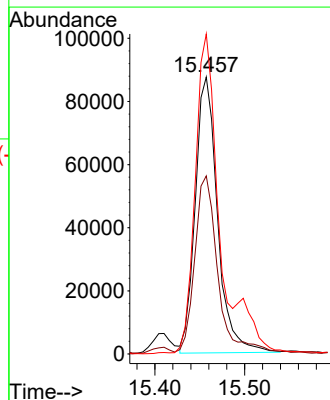
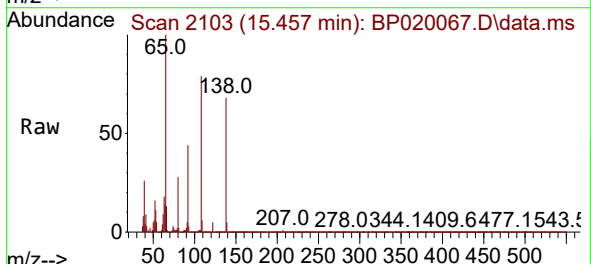
Instrument :
BNA_P
ClientSampleId :
SLCS401

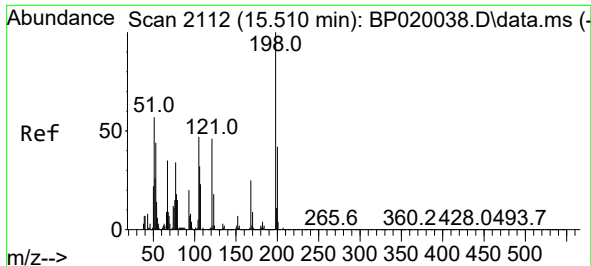
Tgt Ion:204 Resp: 364961
Ion Ratio Lower Upper
204 100
206 33.1 25.1 37.7
141 60.4 49.3 73.9



#63
4-Nitroaniline
Concen: 44.244 ng/ul
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:138 Resp: 150834
Ion Ratio Lower Upper
138 100
92 64.3 55.2 82.8
108 115.5 95.4 143.0

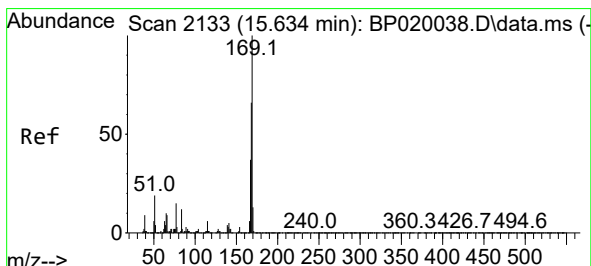
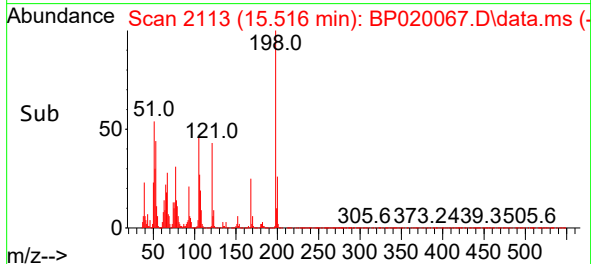
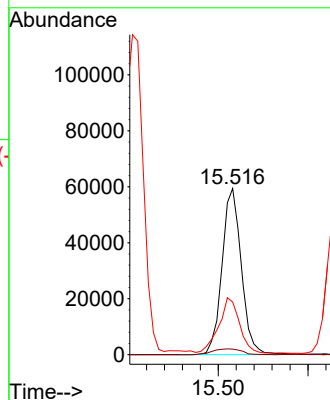
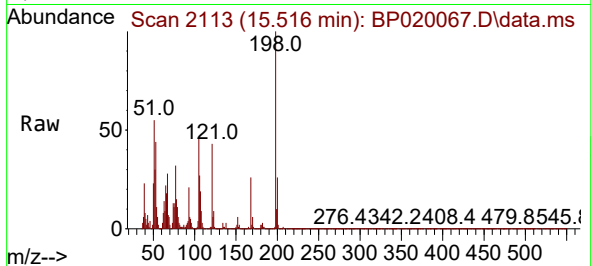




#66
4,6-Dinitro-2-methylphenol
Concen: 22.610 ng/ul
RT: 15.516 min Scan# 2112
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

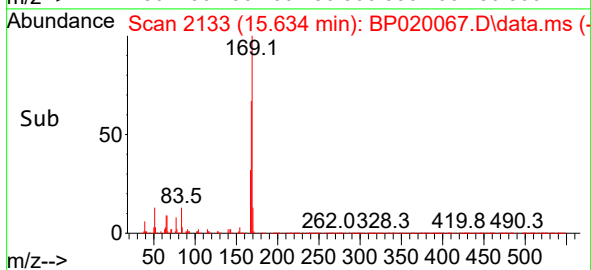
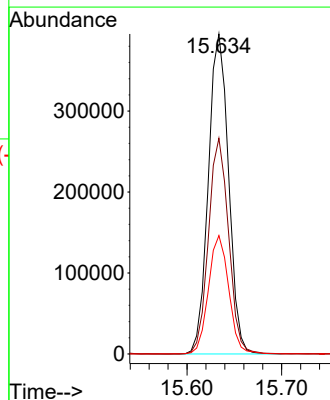
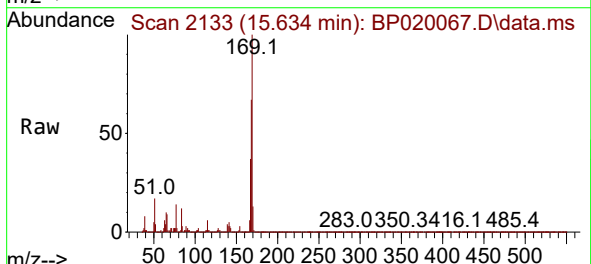
Instrument :
BNA_P
ClientSampleId :
SLCS401

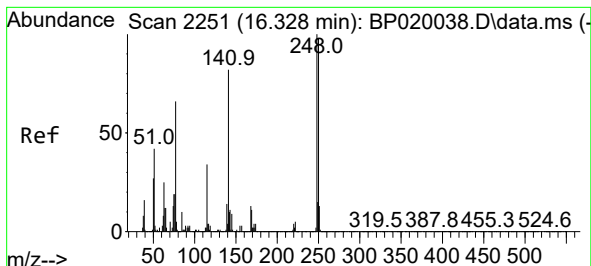
Tgt Ion:198 Resp: 88598
Ion Ratio Lower Upper
198 100
182 3.4 3.0 4.6
77 31.7 25.6 38.4



#67
N-Nitrosodiphenylamine
Concen: 32.805 ng/ul
RT: 15.634 min Scan# 2133
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:169 Resp: 585615
Ion Ratio Lower Upper
169 100
168 67.4 55.0 82.6
167 37.0 29.5 44.3

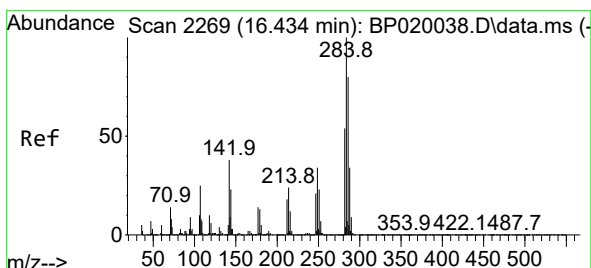
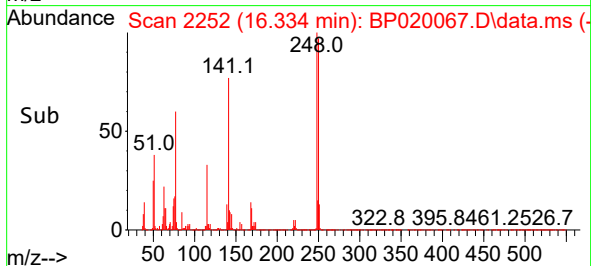
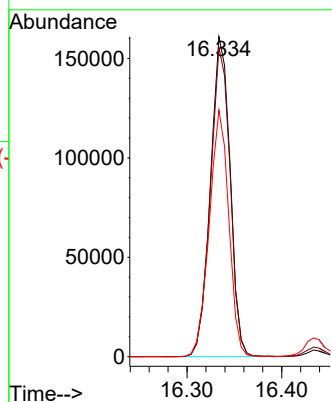
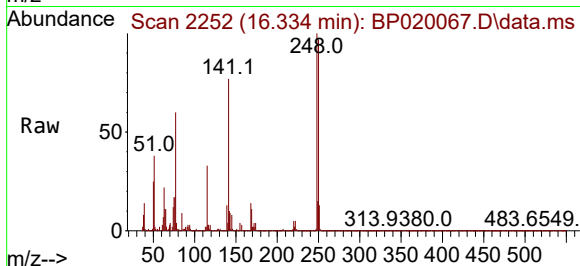




#68
4-Bromophenyl-phenylether
Concen: 32.932 ng/ul
RT: 16.334 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

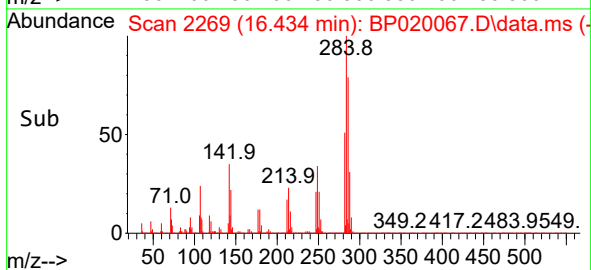
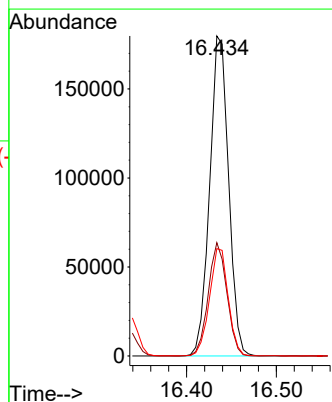
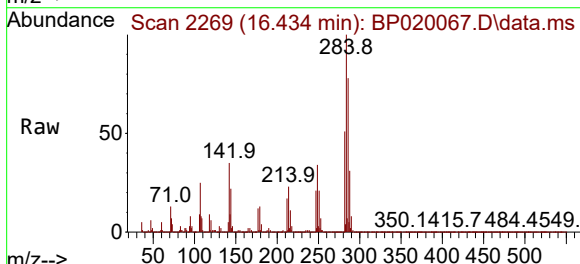
Instrument :
BNA_P
ClientSampleId :
SLCS401

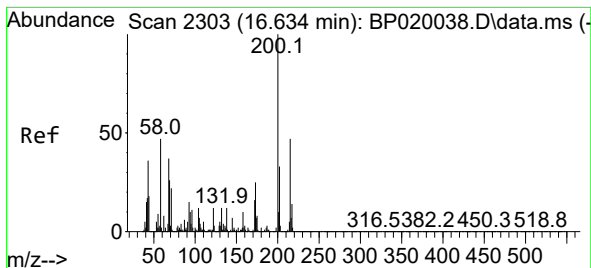
Tgt Ion:248 Resp: 233086
Ion Ratio Lower Upper
248 100
250 96.7 79.2 118.8
141 77.0 65.1 97.7



#69
Hexachlorobenzene
Concen: 34.328 ng/ul
RT: 16.434 min Scan# 2269
Delta R.T. 0.006 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:284 Resp: 263007
Ion Ratio Lower Upper
284 100
142 35.4 30.6 45.8
249 33.5 26.9 40.3





#70

Atrazine

Concen: 35.617 ng/ul

RT: 16.634 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

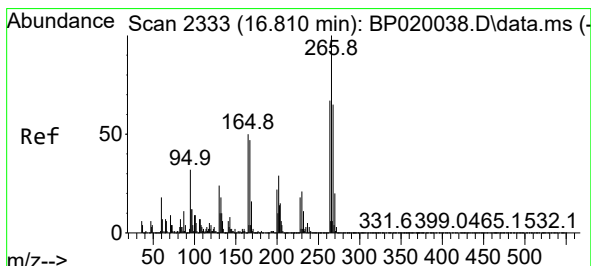
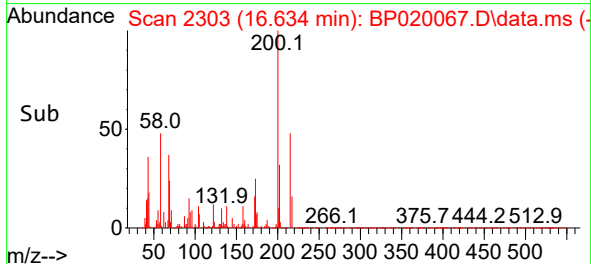
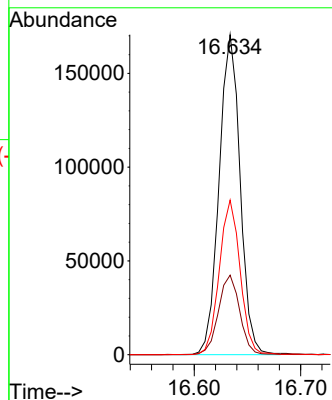
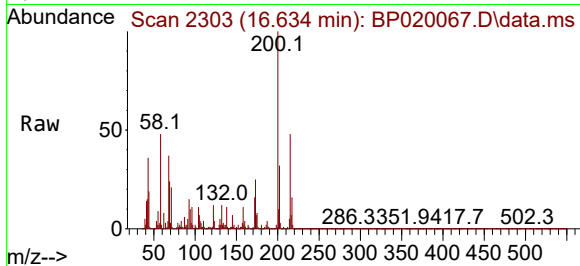
Tgt Ion:200 Resp: 233487

Ion Ratio Lower Upper

200 100

173 24.9 19.3 28.9

215 48.3 36.6 54.8



#71

Pentachlorophenol

Concen: 35.382 ng/ul

RT: 16.804 min Scan# 2332

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

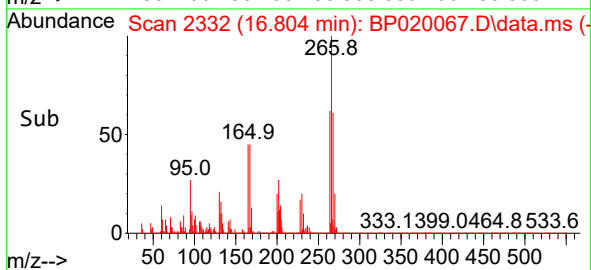
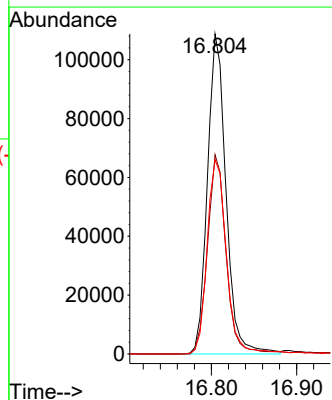
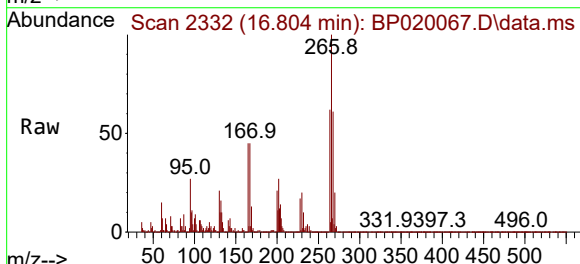
Tgt Ion:266 Resp: 164309

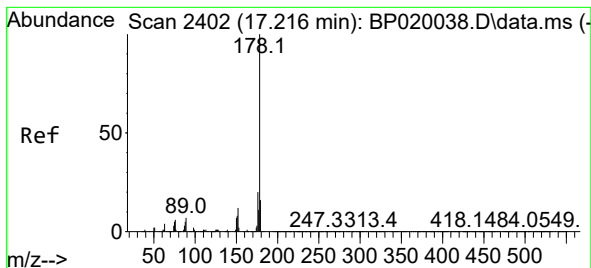
Ion Ratio Lower Upper

266 100

264 62.2 50.6 75.8

268 60.7 50.3 75.5





#72

Phenanthrene

Concen: 32.578 ng/ul

RT: 17.210 min Scan# 2402

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

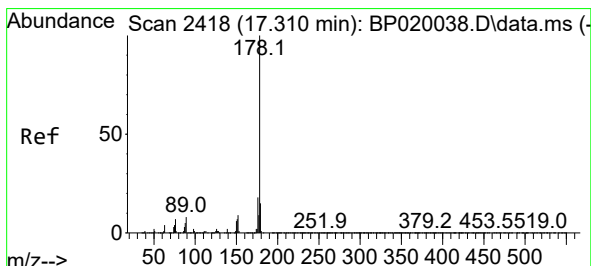
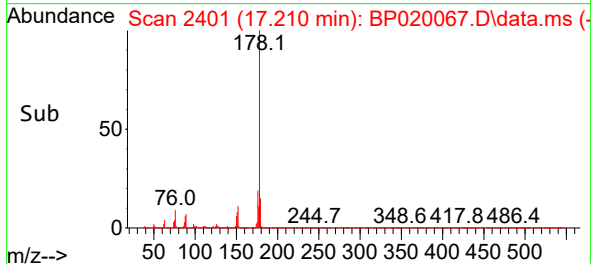
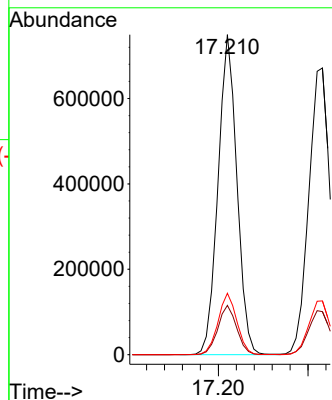
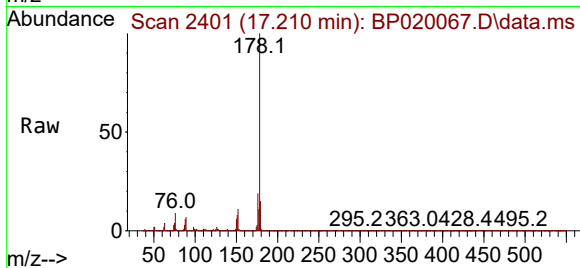
Tgt Ion:178 Resp: 1091649

Ion Ratio Lower Upper

178 100

179 15.4 12.2 18.4

176 19.2 15.5 23.3



#74

Anthracene

Concen: 32.462 ng/ul

RT: 17.316 min Scan# 2419

Delta R.T. 0.018 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

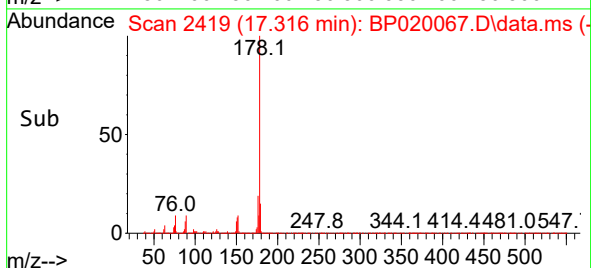
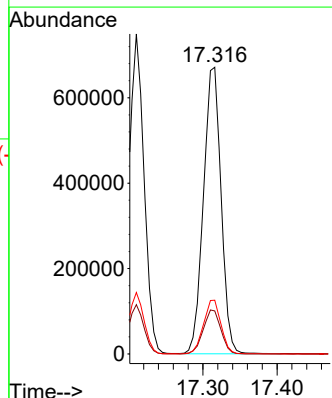
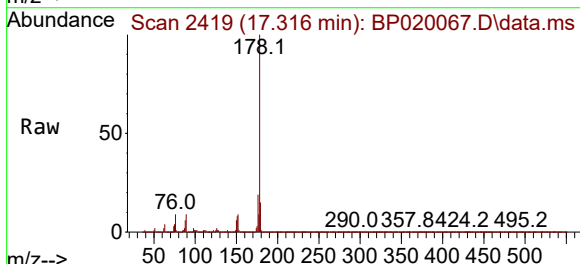
Tgt Ion:178 Resp: 1109431

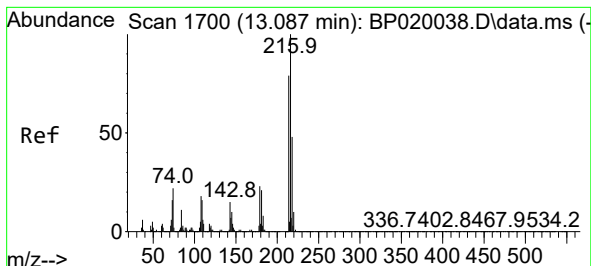
Ion Ratio Lower Upper

178 100

179 15.0 12.2 18.4

176 18.7 14.6 21.8





#75

1,2,3,4-Tetrachlorobenzene

Concen: 32.420 ng/uL

RT: 13.087 min Scan# 1

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

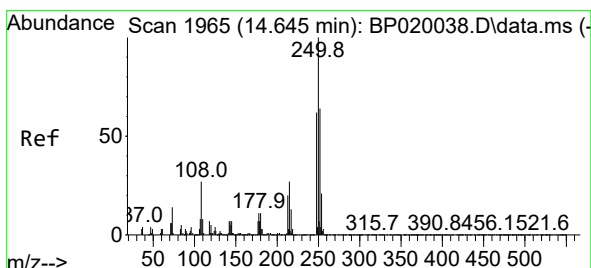
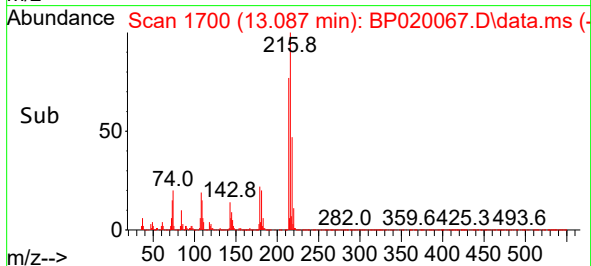
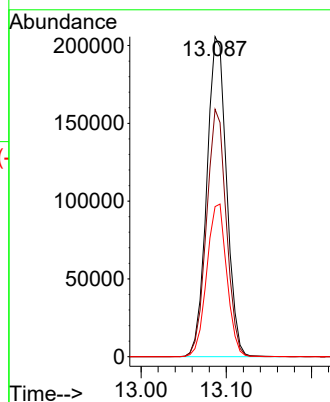
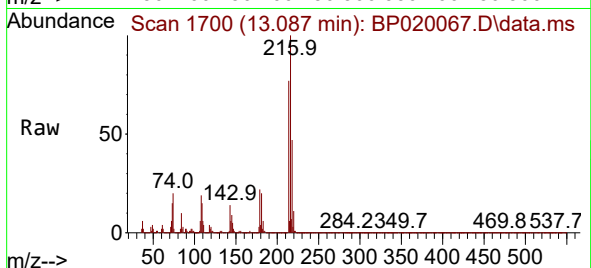
Tgt Ion:216 Resp: 331706

Ion Ratio Lower Upper

216 100

214 77.3 59.3 88.9

218 46.9 37.8 56.8



#76

Pentachlorobenzene

Concen: 32.355 ng/uL

RT: 14.646 min Scan# 1965

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

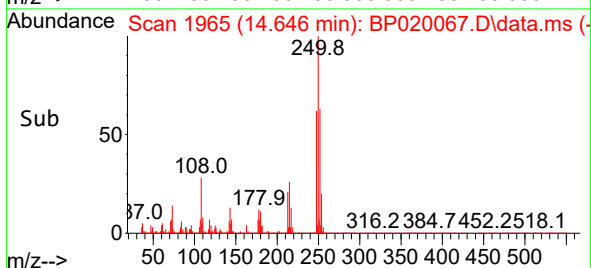
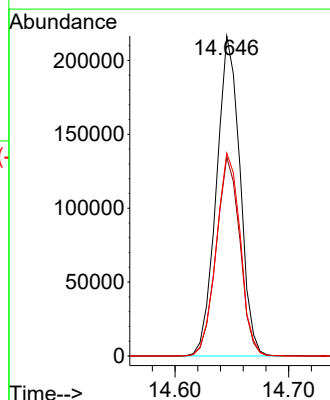
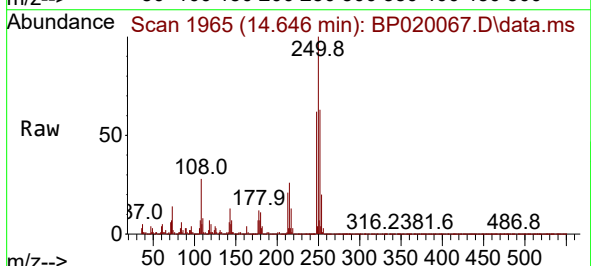
Tgt Ion:250 Resp: 311511

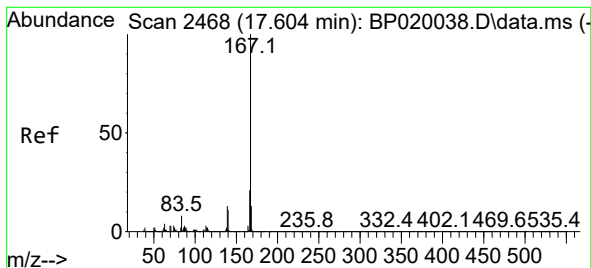
Ion Ratio Lower Upper

250 100

248 62.2 51.2 76.8

252 63.4 50.9 76.3





#77

Carbazole

Concen: 34.561 ng/ul

RT: 17.610 min Scan# 2469

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

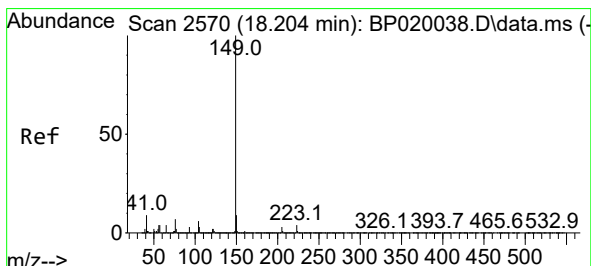
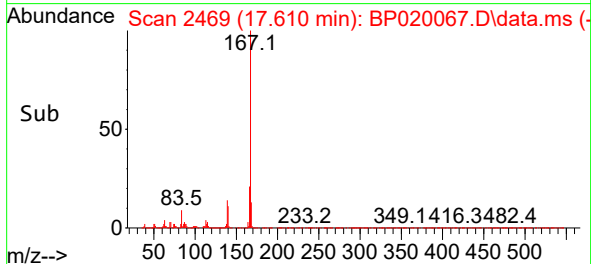
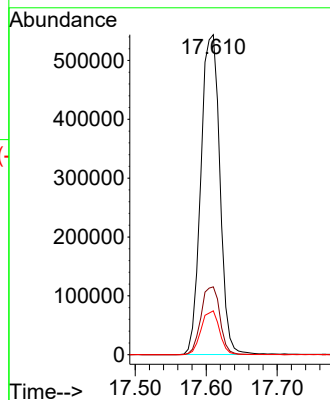
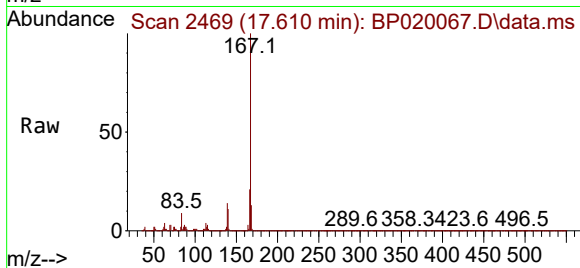
Tgt Ion:167 Resp: 1012107

Ion Ratio Lower Upper

167 100

166 21.2 17.4 26.2

139 13.7 10.9 16.3



#78

Di-n-butylphthalate

Concen: 36.325 ng/ul

RT: 18.204 min Scan# 2570

Delta R.T. 0.012 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

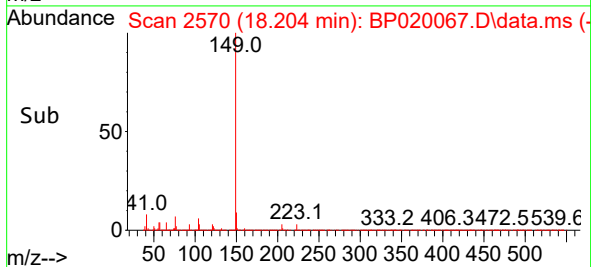
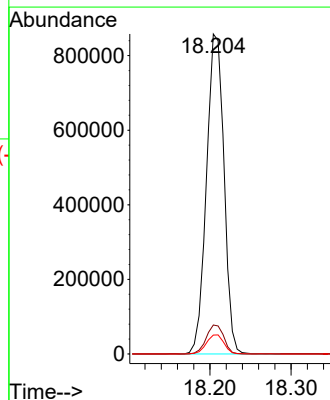
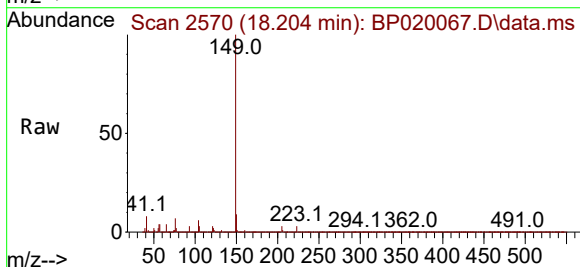
Tgt Ion:149 Resp: 1283433

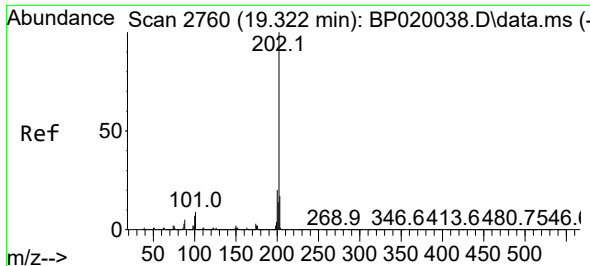
Ion Ratio Lower Upper

149 100

150 9.1 7.4 11.0

104 5.9 5.3 7.9

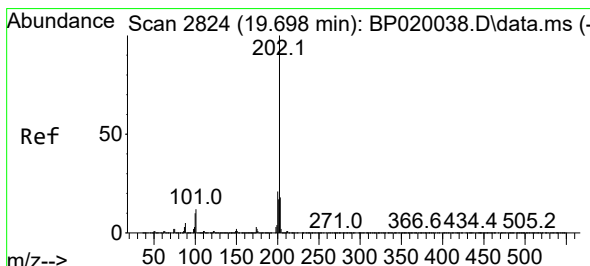
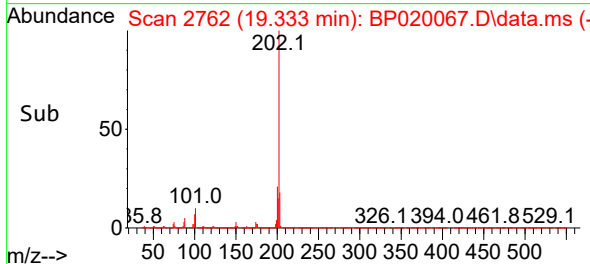
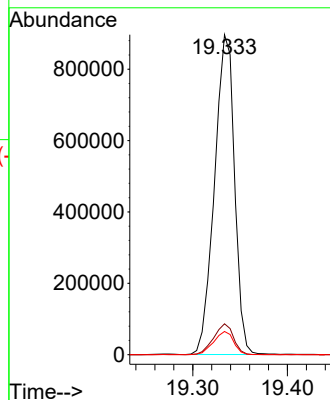
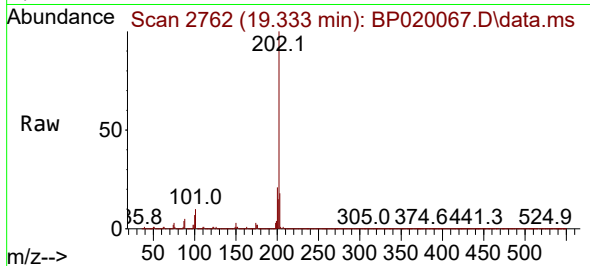




#80
Fluoranthene
Concen: 37.942 ng/ul
RT: 19.333 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

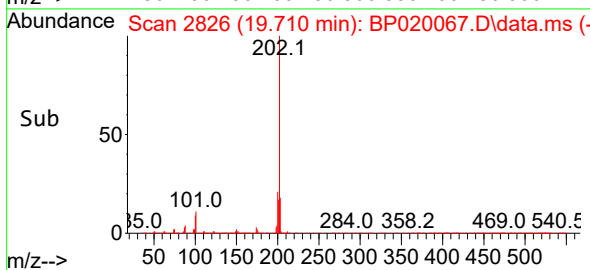
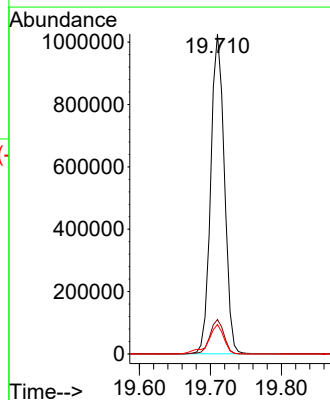
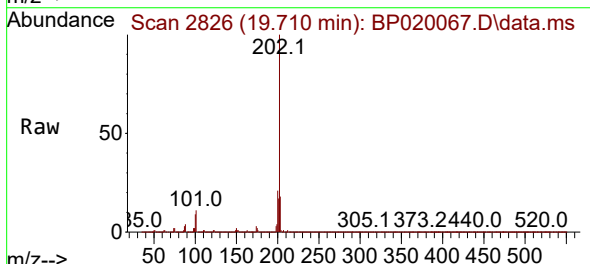
Instrument :
BNA_P
ClientSampleId :
SLCS401

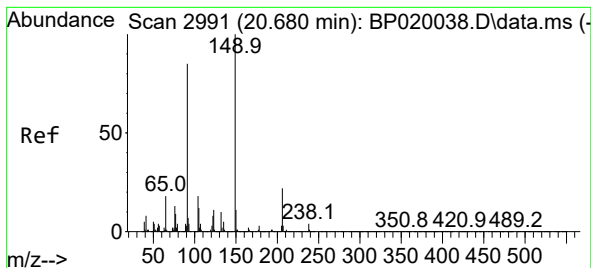
Tgt Ion:202 Resp: 1317502
Ion Ratio Lower Upper
202 100
101 9.6 7.7 11.5
100 7.3 5.7 8.5



#82
Pyrene
Concen: 37.933 ng/ul
RT: 19.710 min Scan# 2826
Delta R.T. 0.018 min
Lab File: BP020067.D
Acq: 21 Apr 2024 08:27

Tgt Ion:202 Resp: 1370418
Ion Ratio Lower Upper
202 100
101 10.8 9.3 13.9
100 9.2 7.6 11.4





#83

Butylbenzylphthalate

Concen: 39.382 ng/ul

RT: 20.680 min Scan# 2991

Delta R.T. 0.006 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

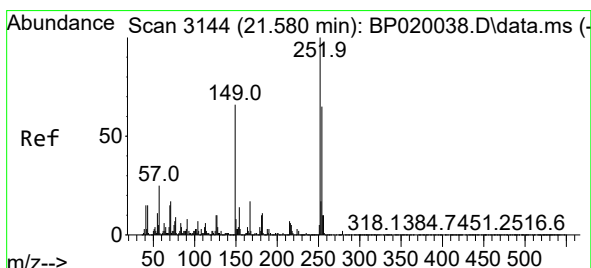
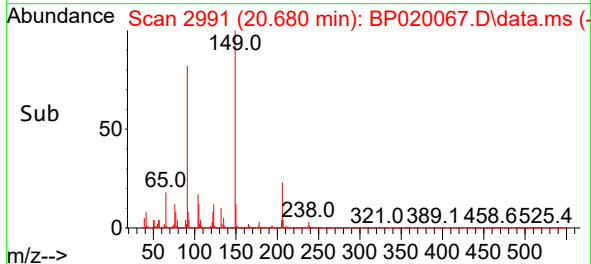
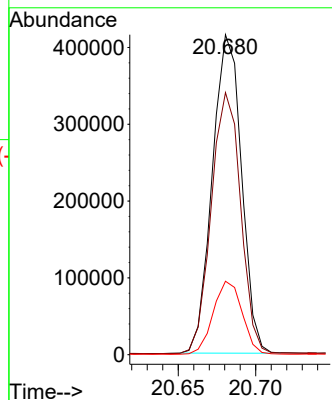
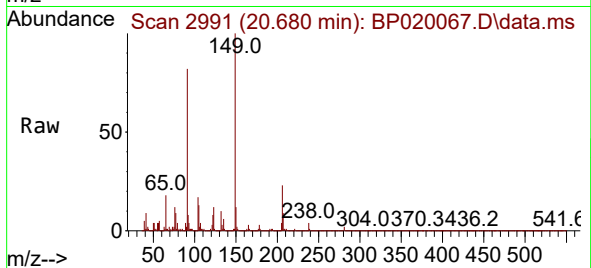
Tgt Ion:149 Resp: 542469

Ion Ratio Lower Upper

149 100

91 81.9 69.6 104.4

206 22.9 17.4 26.0



#84

3,3'-Dichlorobenzidine

Concen: 30.792 ng/ul

RT: 21.592 min Scan# 3146

Delta R.T. 0.024 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

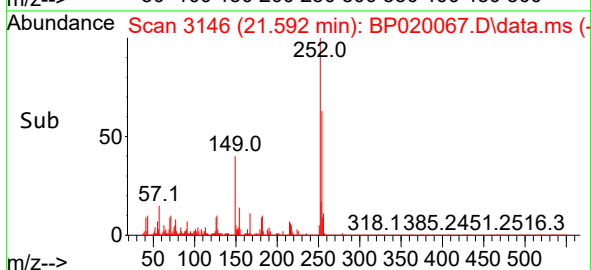
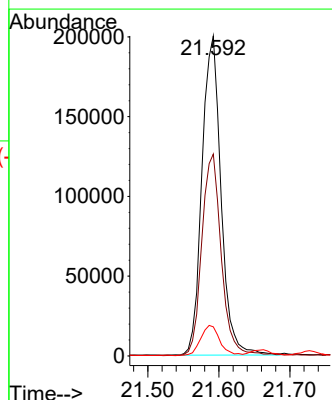
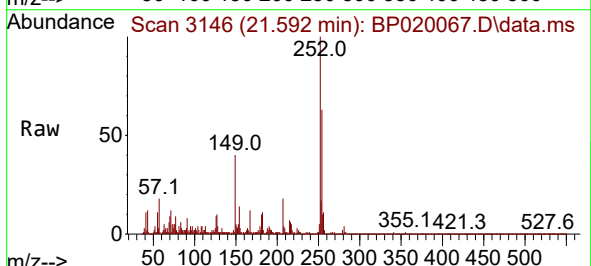
Tgt Ion:252 Resp: 374203

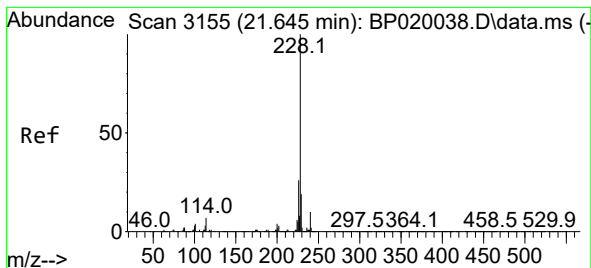
Ion Ratio Lower Upper

252 100

254 63.1 51.5 77.3

126 9.1 7.9 11.9





#85

Benzo(a)anthracene

Concen: 34.579 ng/ul

RT: 21.657 min Scan# 3157

Delta R.T. 0.024 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

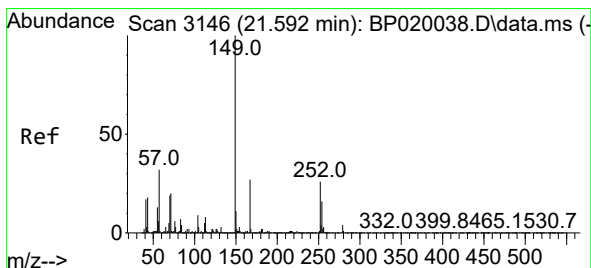
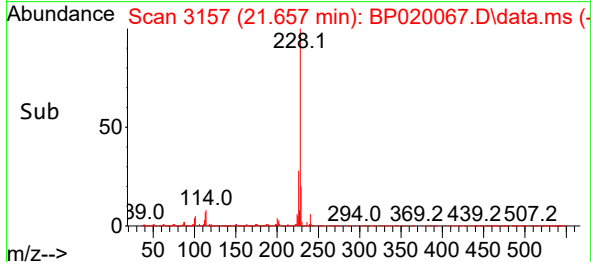
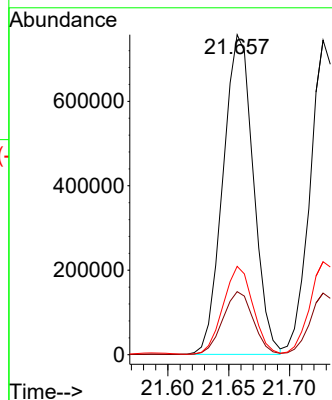
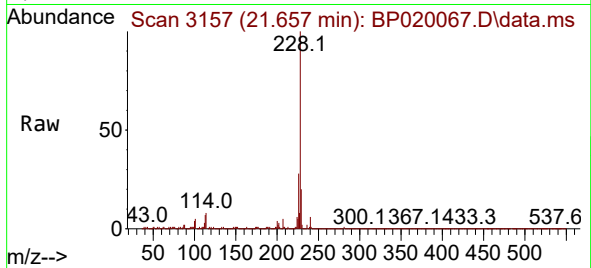
Tgt Ion:228 Resp: 1314549

Ion Ratio Lower Upper

228 100

229 19.7 15.7 23.5

226 27.6 21.4 32.0



#86

Bis(2-ethylhexyl)phthalate

Concen: 36.741 ng/ul

RT: 21.610 min Scan# 3149

Delta R.T. 0.018 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

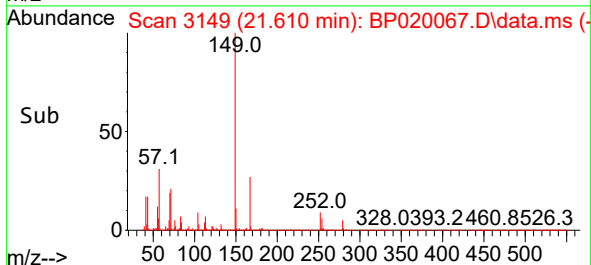
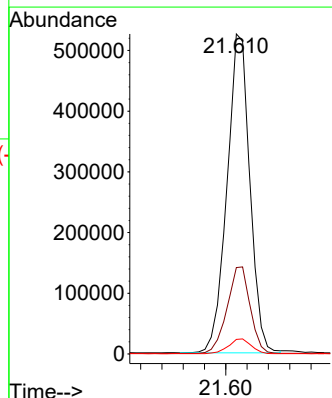
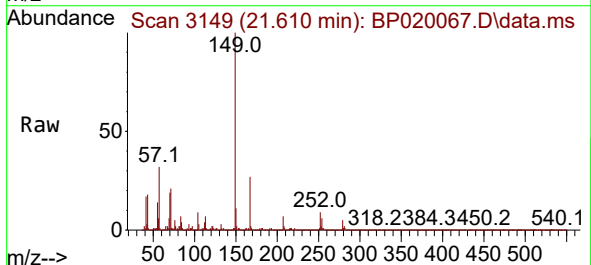
Tgt Ion:149 Resp: 780196

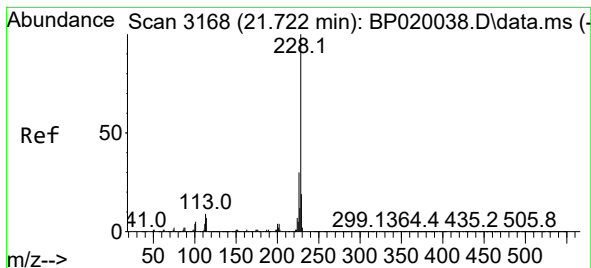
Ion Ratio Lower Upper

149 100

167 27.0 21.3 31.9

279 4.6 3.2 4.8





#87

Chrysene

Concen: 34.180 ng/ul

RT: 21.727 min Scan# 3168

Delta R.T. 0.018 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

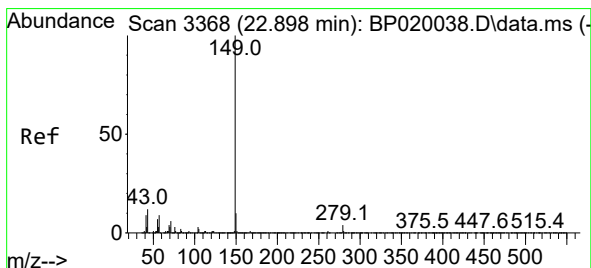
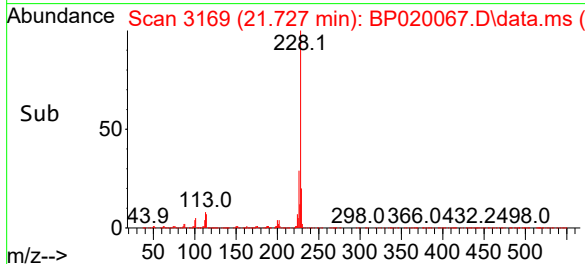
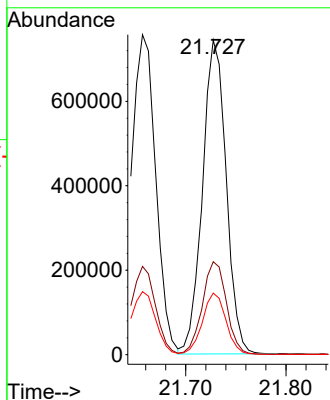
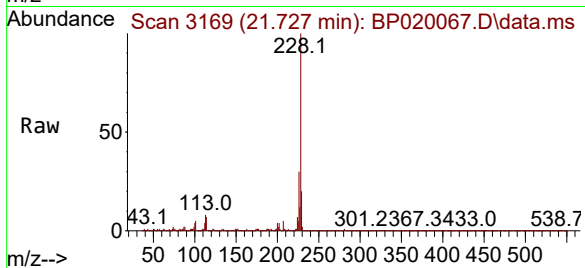
Tgt Ion:228 Resp: 1223691

Ion Ratio Lower Upper

228 100

226 29.5 24.2 36.4

229 19.6 15.4 23.2



#89

Di-n-octyl phthalate

Concen: 36.015 ng/ul

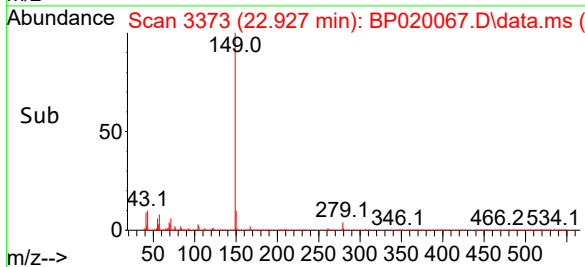
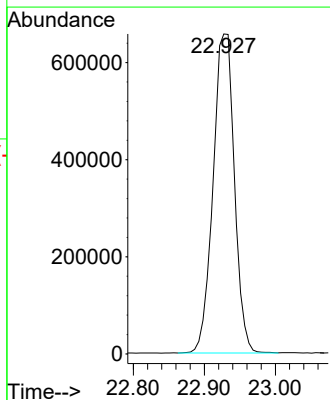
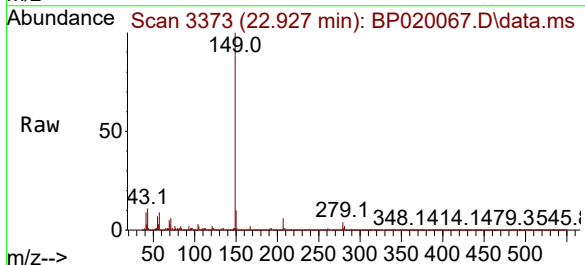
RT: 22.927 min Scan# 3373

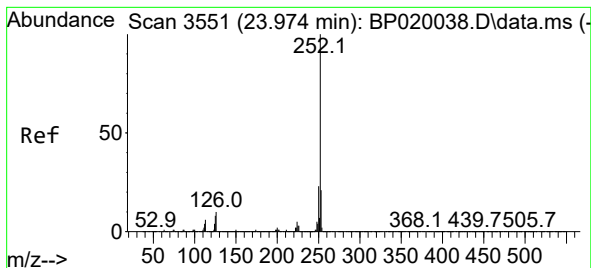
Delta R.T. 0.029 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Tgt Ion:149 Resp: 1370486





#90

Benzo(b)fluoranthene

Concen: 33.686 ng/ul

RT: 24.004 min Scan# 3556

Delta R.T. 0.029 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

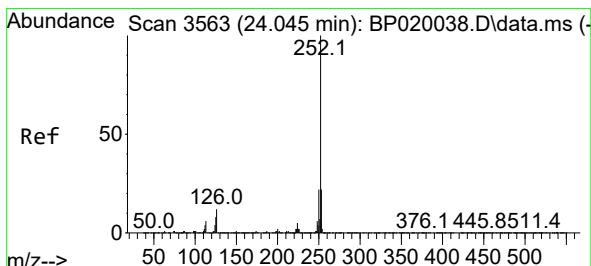
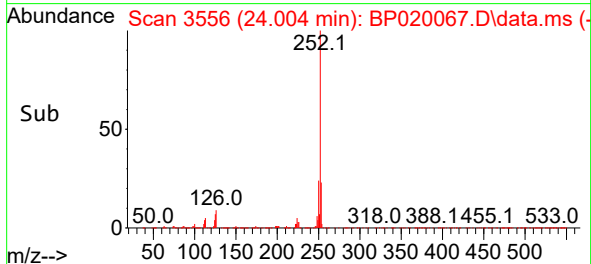
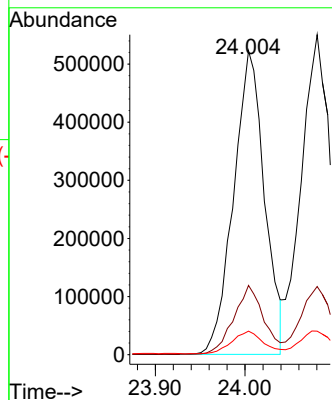
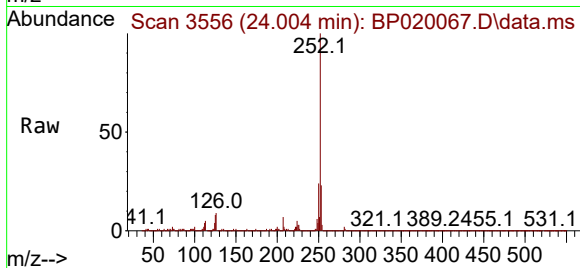
Tgt Ion:252 Resp: 1249987

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 7.8 5.8 8.6



#91

Benzo(k)fluoranthene

Concen: 33.660 ng/ul

RT: 24.080 min Scan# 3569

Delta R.T. 0.035 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

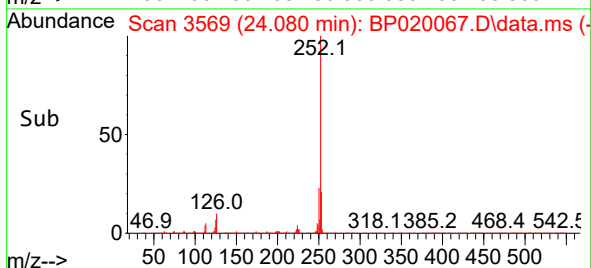
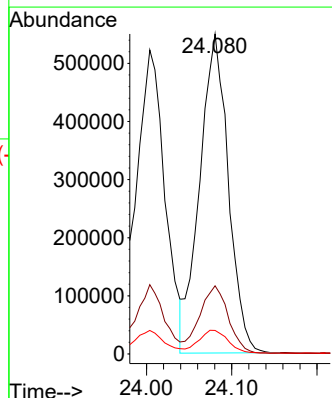
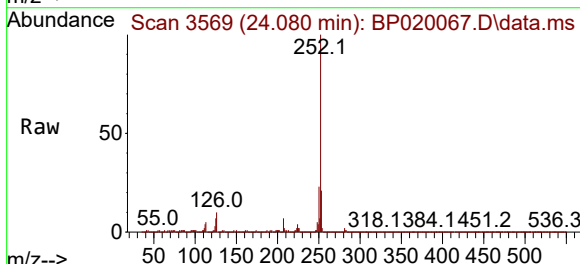
Tgt Ion:252 Resp: 1280510

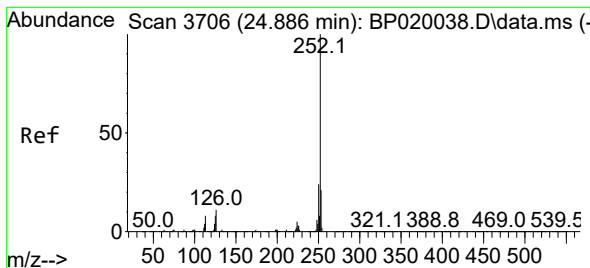
Ion Ratio Lower Upper

252 100

253 21.3 17.5 26.3

125 7.4 5.9 8.9





#93

Benzo(a)pyrene

Concen: 30.092 ng/ul

RT: 24.921 min Scan# 31

Delta R.T. 0.035 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

Instrument :

BNA_P

ClientSampleId :

SLCS401

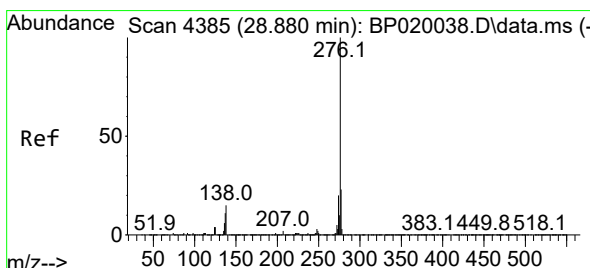
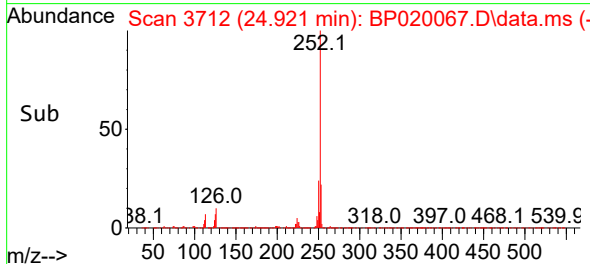
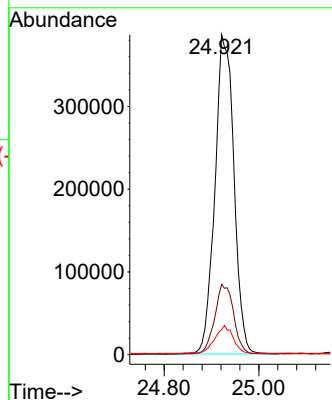
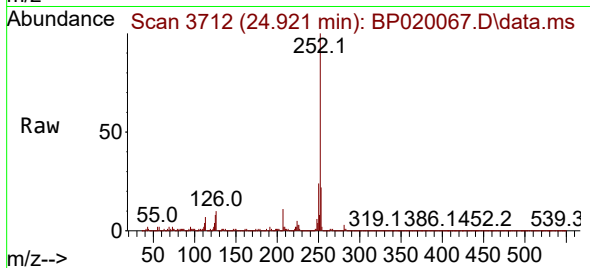
Tgt Ion:252 Resp: 1076026

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

125 7.8 7.0 10.6



#94

Indeno(1,2,3-cd)pyrene

Concen: 30.367 ng/ul

RT: 28.968 min Scan# 4400

Delta R.T. 0.065 min

Lab File: BP020067.D

Acq: 21 Apr 2024 08:27

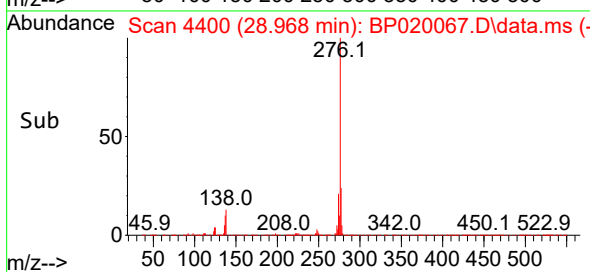
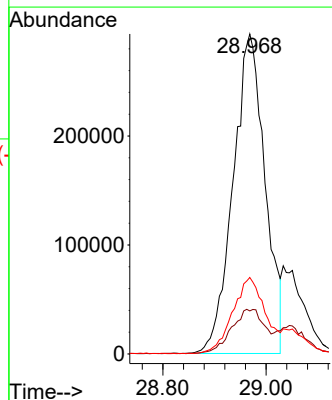
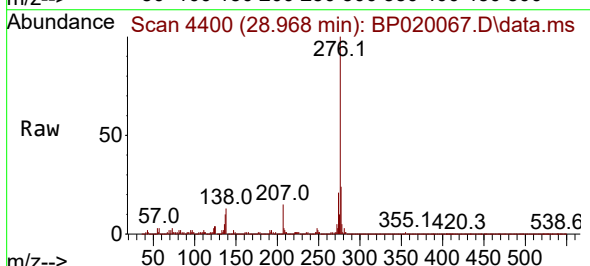
Tgt Ion:276 Resp: 1259149

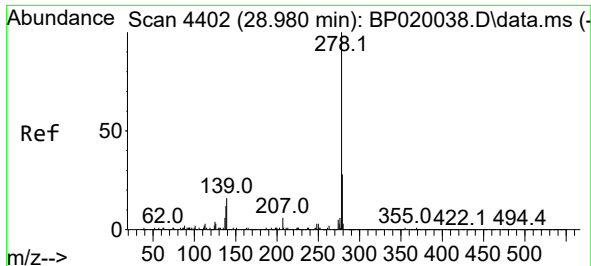
Ion Ratio Lower Upper

276 100

138 13.5 11.7 17.5

277 23.9 18.6 28.0

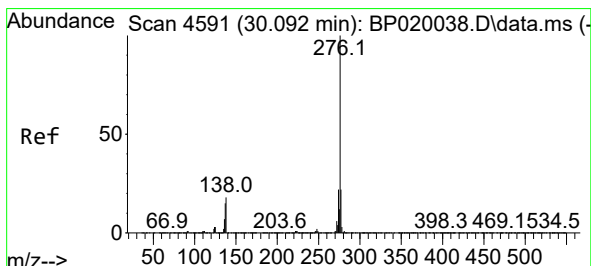
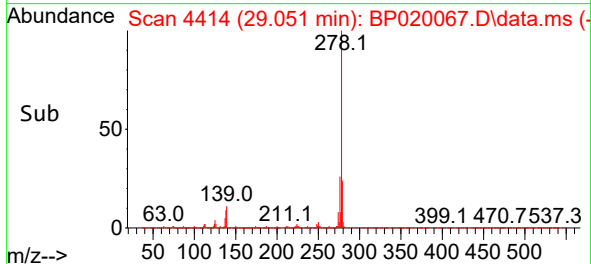
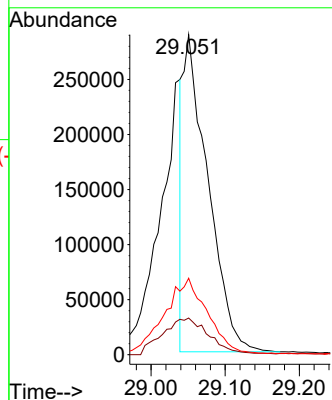
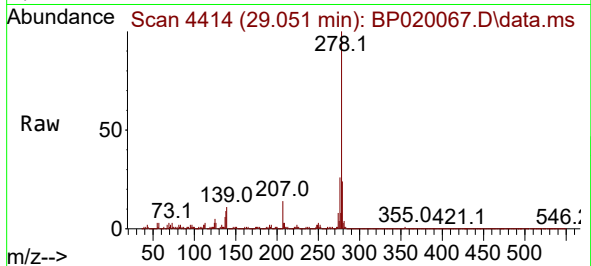




#95
 Dibenzo(a,h)anthracene
 Concen: 19.675 ng/ul
 RT: 29.051 min Scan# 4402
 Delta R.T. 0.053 min
 Lab File: BP020067.D
 Acq: 21 Apr 2024 08:27

Instrument :
 BNA_P
 ClientSampleId :
 SLCS401

Tgt Ion:278 Resp: 664700
 Ion Ratio Lower Upper
 278 100
 139 11.5 9.4 14.2
 279 23.9 19.0 28.6



#96
 Benzo(g,h,i)perylene
 Concen: 21.934 ng/ul
 RT: 30.180 min Scan# 4606
 Delta R.T. 0.082 min
 Lab File: BP020067.D
 Acq: 21 Apr 2024 08:27

Tgt Ion:276 Resp: 727420
 Ion Ratio Lower Upper
 276 100
 138 14.7 13.5 20.3
 277 23.4 19.4 29.2

