

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080524\
 Data File : BM046988.D
 Acq On : 05 Aug 2024 11:32
 Operator : RC/JU
 Sample : P3171-01DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DCVT0DL

Quant Time: Aug 05 12:06:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-BM080224.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Aug 03 02:51:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.398	152	220348	20.000	ng/u1	0.00
20) Naphthalene-d8	10.157	136	819082	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.057	164	496209	20.000	ng/u1	0.00
64) Phenanthrene-d10	16.815	188	1016594	20.000	ng/u1	0.00
79) Chrysene-d12	21.056	240	871912	20.000	ng/u1	0.00
88) Perylene-d12	23.762	264	1046801	20.000	ng/u1	-0.01

System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.022	96	3595	0.646	ng/uL	0.00
4) Pyridine-d5	0.000	84	0d	0.000	ng/u1	
7) Phenol-d5	6.598	99	99758	5.960	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	6.751	67	67802	6.156	ng/u1	0.00
11) 2-Chlorophenol-d4	6.939	132	82178	5.796	ng/u1	0.00
15) 4-Methylphenol-d8	8.122	113	78019	5.884	ng/u1	0.00
21) Nitrobenzene-d5	8.539	128	38664	5.883	ng/u1	0.00
24) 2-Nitrophenol-d4	9.251	143	39574	5.513	ng/u1	-0.01
28) 2,4-Dichlorophenol-d3	9.792	165	97237	7.056	ng/u1	0.00
31) 4-Chloroaniline-d4	10.304	131	82446	4.552	ng/u1	0.00
46) Dimethylphthalate-d6	13.486	166	273192	7.200	ng/u1	0.00
49) Acenaphthylene-d8	13.745	160	299533	7.073	ng/u1	0.00
54) 4-Nitrophenol-d4	14.298	143	43756	5.965	ng/u1	0.00
60) Fluorene-d10	15.063	176	237051	7.304	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.198	200	30958	4.820	ng/u1	0.00
73) Anthracene-d10	16.915	188	368869	7.654	ng/u1	0.00
81) Pyrene-d10	19.227	212	421838	8.452	ng/u1	0.00
92) Benzo(a)pyrene-d12	23.580	264	432676	7.850	ng/u1	0.00

Target Compounds				Qvalue		
8) Phenol	6.628	94	330647	19.615	ng/u1	91
10) Bis(2-Chloroethyl)ether	6.845	93	582354	40.531	ng/u1	96
12) 2-Chlorophenol	6.969	128	102270	7.119	ng/u1	94
17) N-Nitroso-di-n-propyla...	8.204	70	255121	23.180	ng/u1	94
22) Nitrobenzene	8.581	77	138312	7.876	ng/u1	97
25) 2-Nitrophenol	9.286	139	163504	20.824	ng/u1	96
27) Bis(2-Chloroethoxy)met...	9.598	93	670597	36.204	ng/u1	100
29) 2,4-Dichlorophenol	9.816	162	417738	30.393	ng/u1	98
30) Naphthalene	10.204	128	1720168	39.665	ng/u1	100
35) 4-Chloro-3-methylphenol	11.469	107	495033	34.929	ng/u1	99
41) 2,4,6-Trichlorophenol	12.469	196	330408	32.437	ng/u1	98
42) 2,4,5-Trichlorophenol	12.539	196	372407	33.862	ng/u1	99
48) 2,6-Dinitrotoluene	13.645	165	220844	29.840	ng/u1	90
50) Acenaphthylene	13.774	152	1764590	39.452	ng/u1	100
52) Acenaphthene	14.121	153	921025	28.563	ng/u1	98
55) 4-Nitrophenol	14.316	109	265271	35.729	ng/u1	94
56) Dibenzofuran	14.463	168	1036454	22.903	ng/u1	95
59) Diethylphthalate	14.915	149	1557323	38.025	ng/u1	98
61) Fluorene	15.115	166	760609	20.377	ng/u1	99
62) 4-Chlorophenyl-phenyle...	15.121	204	717696	39.057	ng/u1	98
71) Pentachlorophenol	16.474	266	320615	36.549	ng/u1	96
74) Anthracene	16.951	178	2332090	40.580	ng/u1	100
78) Di-n-butylphthalate	17.815	149	1203081	17.758	ng/u1	99
80) Fluoranthene	18.892	202	2183936	36.612	ng/u1	100

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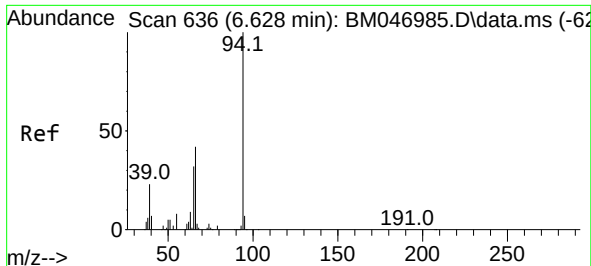
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

82) Pyrene	19.256	202	2771814	43.610	ng/ul	97
83) Butylbenzylphthalate	20.197	149	1529257	55.049	ng/ul	97
85) Benzo(a)anthracene	21.039	228	1480694	23.252	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.003	149	1878498	46.319	ng/ul	99
87) Chrysene	21.097	228	2842402	46.801	ng/ul	99
91) Benzo(k)fluoranthene	22.974	252	1381480	21.590	ng/ul	98
93) Benzo(a)pyrene	23.638	252	636867	10.557	ng/ul	99
94) Indeno(1,2,3-cd)pyrene	26.785	276	2181929	28.231	ng/ul	100
95) Dibenzo(a,h)anthracene	26.826	278	507935	8.182	ng/ul	98
96) Benzo(g,h,i)perylene	27.721	276	2068741	33.877	ng/ul	98

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

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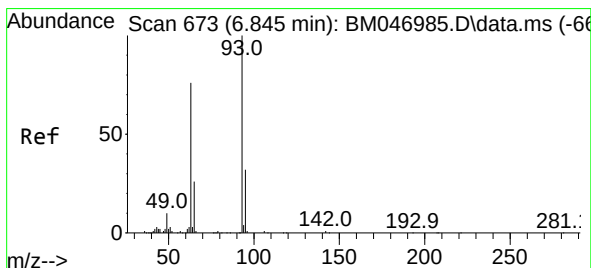
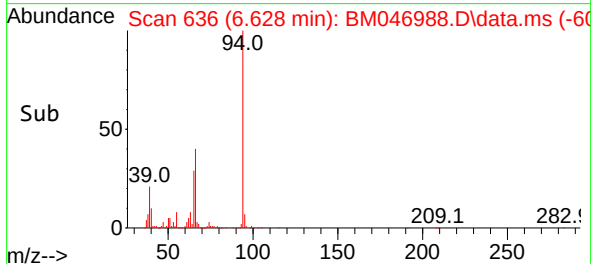
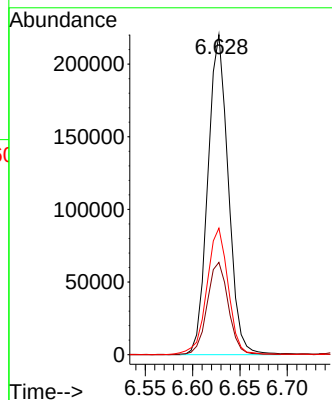
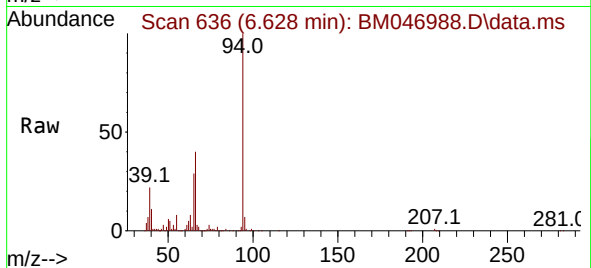




#8
Phenol
Concen: 19.615 ng/ul
RT: 6.628 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

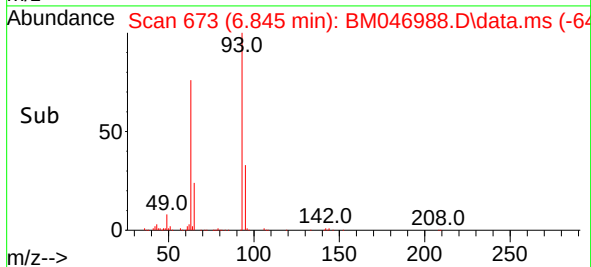
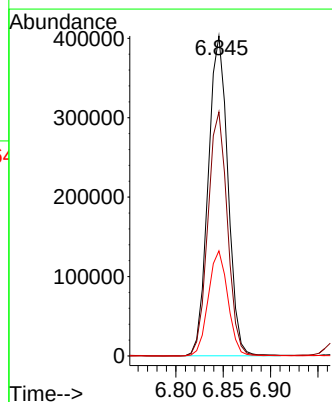
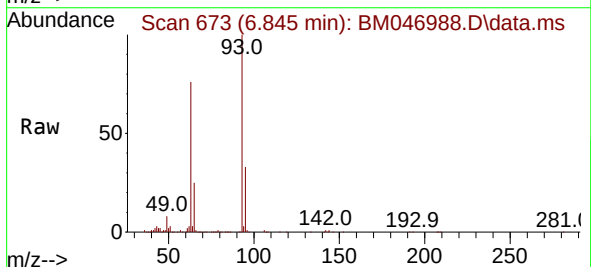
Instrument :
BNA_M
ClientSampleId :
DCVT0DL

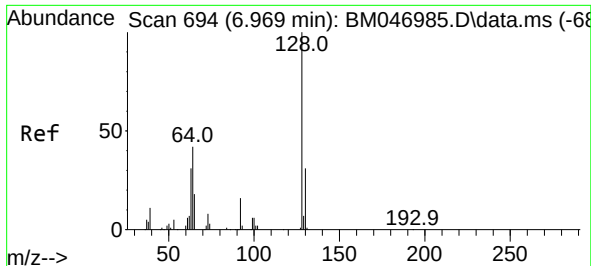
Tgt Ion: 94 Resp: 330647
Ion Ratio Lower Upper
94 100
65 28.8 25.1 37.7
66 39.5 37.7 56.5



#10
Bis(2-Chloroethyl)ether
Concen: 40.531 ng/ul
RT: 6.845 min Scan# 673
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

Tgt Ion: 93 Resp: 582354
Ion Ratio Lower Upper
93 100
63 76.3 59.0 88.6
95 32.8 24.0 36.0

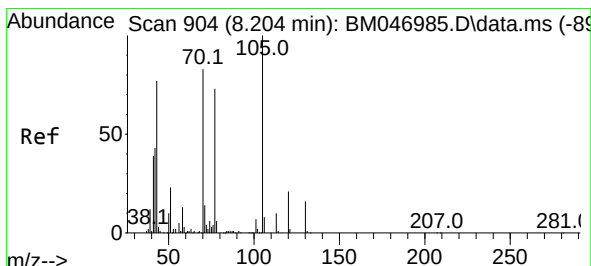
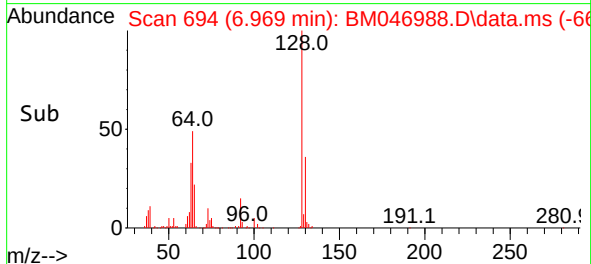
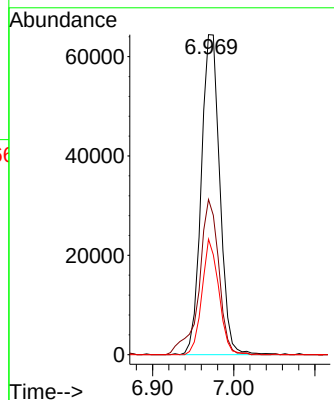
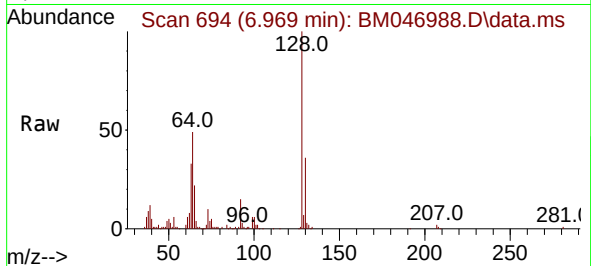




#12
2-Chlorophenol
Concen: 7.119 ng/ul
RT: 6.969 min Scan# 694
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

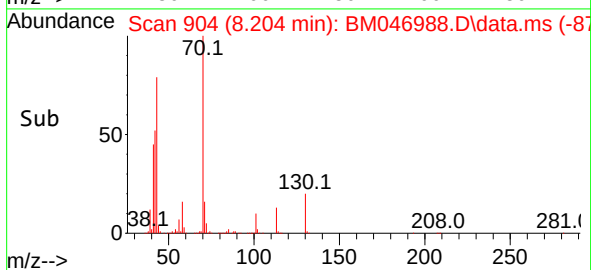
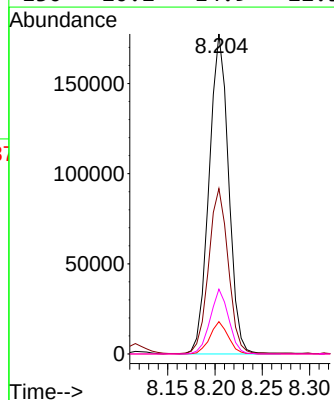
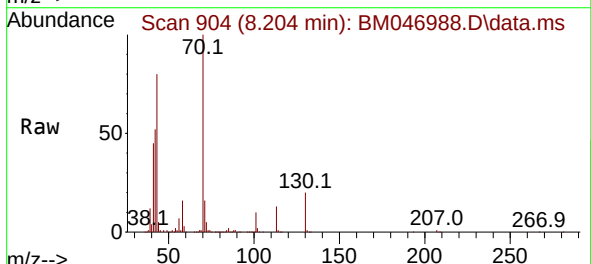
Instrument :
BNA_M
ClientSampleId :
DCVT0DL

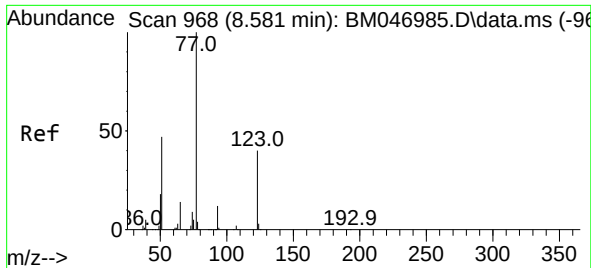
Tgt Ion:128 Resp: 102270
Ion Ratio Lower Upper
128 100
64 48.5 37.0 55.4
130 36.1 24.1 36.1



#17
N-Nitroso-di-n-propylamine
Concen: 23.180 ng/ul
RT: 8.204 min Scan# 904
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

Tgt Ion: 70 Resp: 255121
Ion Ratio Lower Upper
70 100
42 51.7 45.8 68.8
101 10.1 6.9 10.3
130 20.2 14.9 22.3

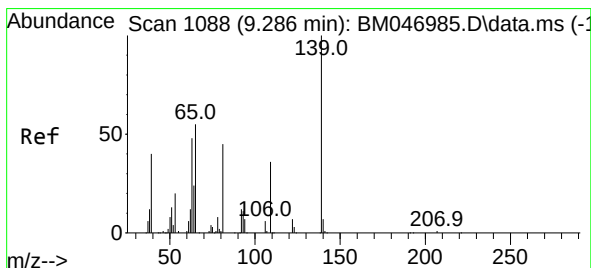
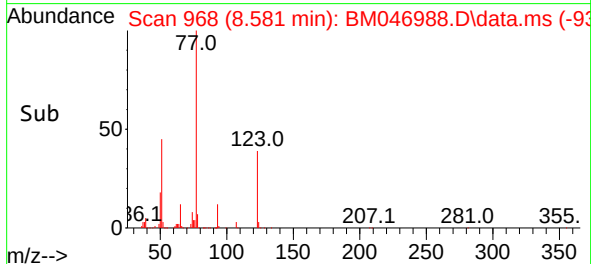
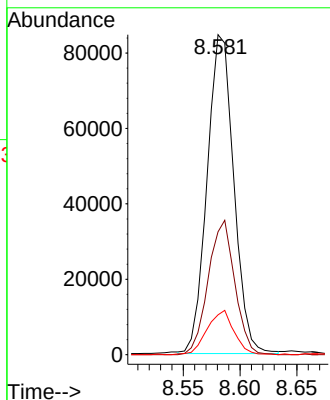
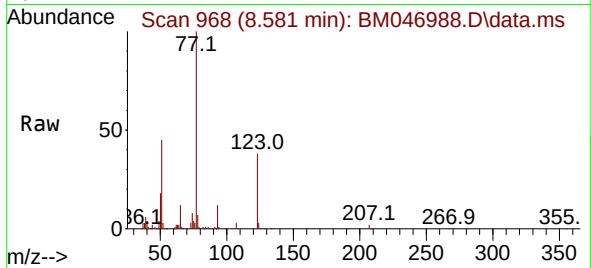




#22
Nitrobenzene
Concen: 7.876 ng/ul
RT: 8.581 min Scan# 968
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

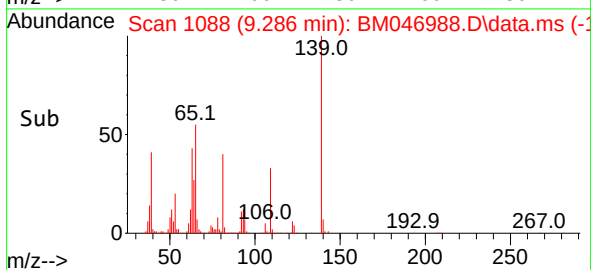
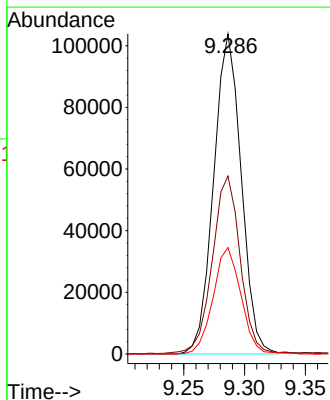
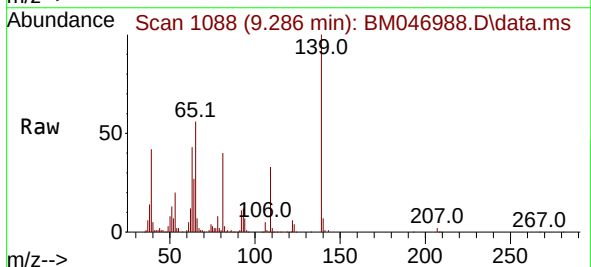
Instrument :
BNA_M
ClientSampleId :
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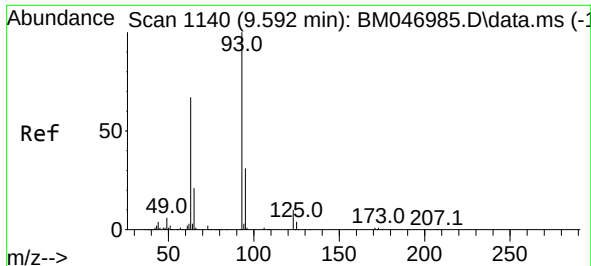
Tgt Ion: 77 Resp: 138312
Ion Ratio Lower Upper
77 100
123 38.4 31.4 47.2
65 12.4 12.1 18.1



#25
2-Nitrophenol
Concen: 20.824 ng/ul
RT: 9.286 min Scan# 1088
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

Tgt Ion:139 Resp: 163504
Ion Ratio Lower Upper
139 100
65 55.6 45.1 67.7
109 33.2 30.9 46.3



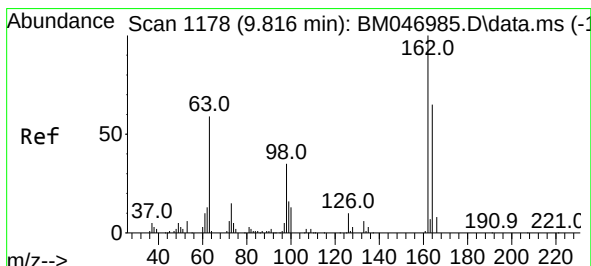
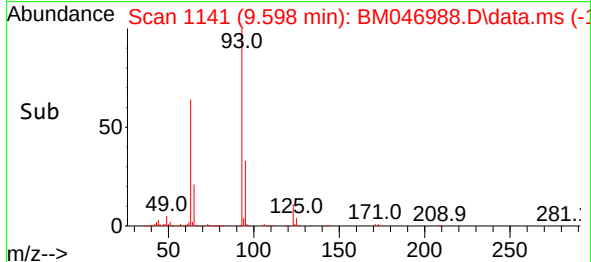
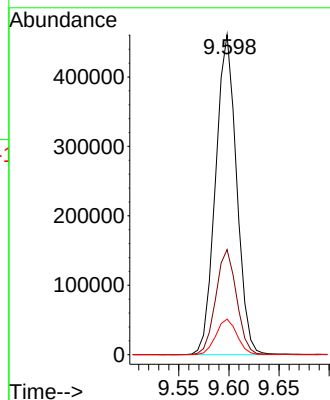
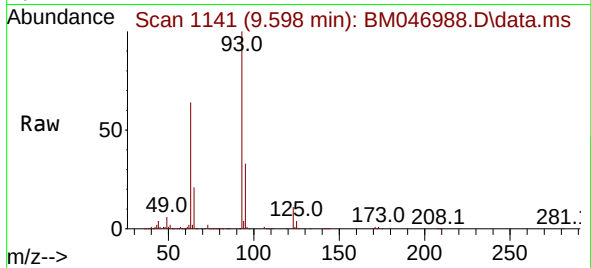


#27
 Bis(2-Chloroethoxy)methane
 Concen: 36.204 ng/ul
 RT: 9.598 min Scan# 1141
 Delta R.T. -0.006 min
 Lab File: BM046988.D
 Acq: 05 Aug 2024 11:32

Instrument :
 BNA_M
 ClientSampleId :
 DCVT0DL

Tgt Ion: 93 Resp: 670597

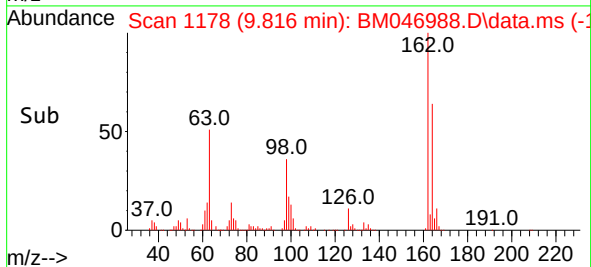
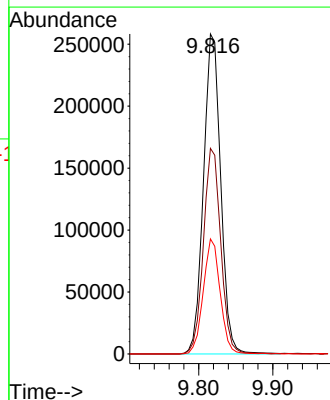
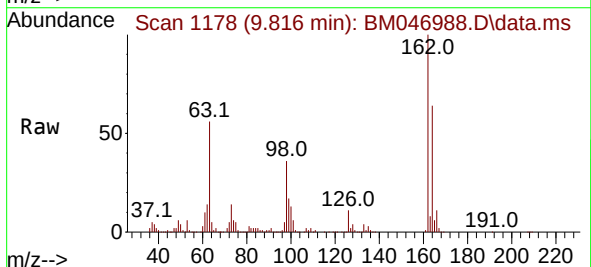
Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	11.1	9.1	13.7

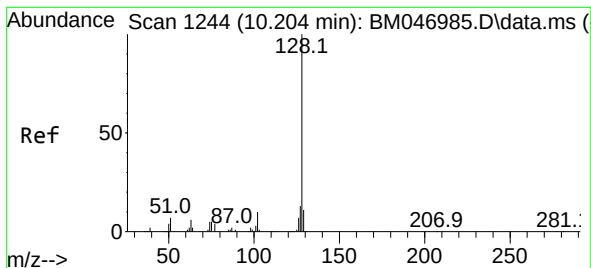


#29
 2,4-Dichlorophenol
 Concen: 30.393 ng/ul
 RT: 9.816 min Scan# 1178
 Delta R.T. -0.006 min
 Lab File: BM046988.D
 Acq: 05 Aug 2024 11:32

Tgt Ion:162 Resp: 417738

Ion	Ratio	Lower	Upper
162	100		
164	64.3	53.3	79.9
98	36.0	29.6	44.4

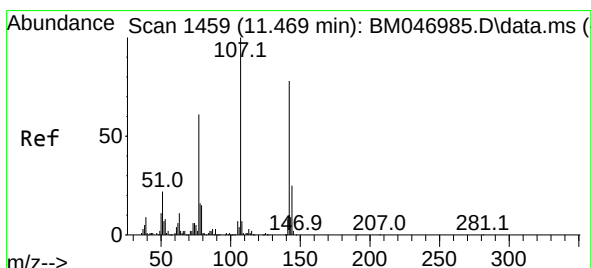
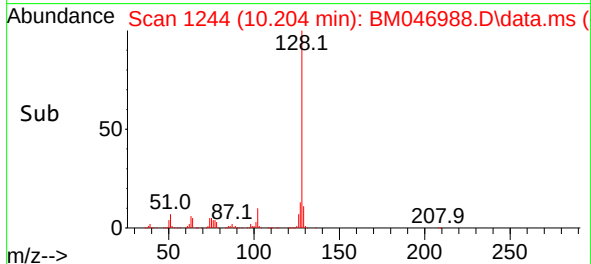
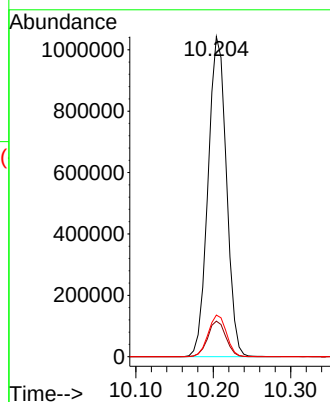
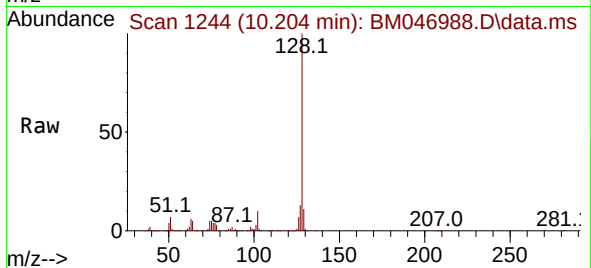




#30
Naphthalene
Concen: 39.665 ng/ul
RT: 10.204 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

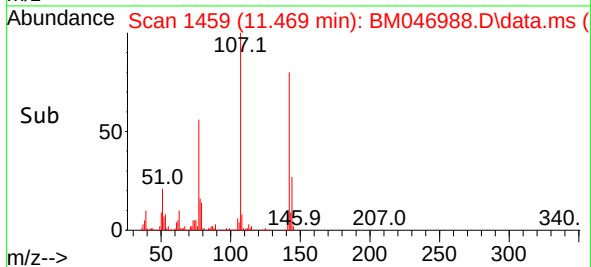
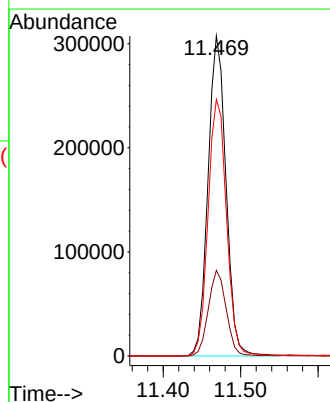
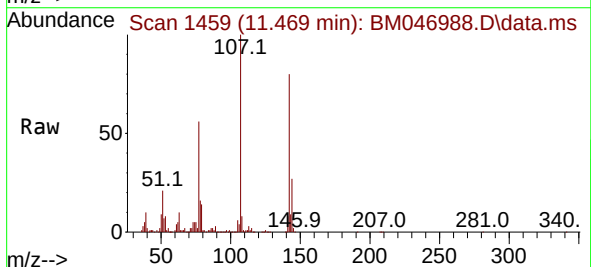
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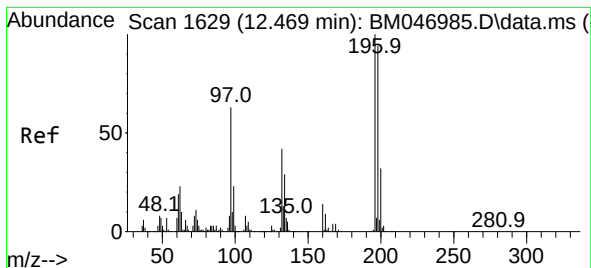
Tgt Ion:128 Resp: 1720168
Ion Ratio Lower Upper
128 100
129 11.1 8.6 13.0
127 13.0 10.4 15.6



#35
4-Chloro-3-methylphenol
Concen: 34.929 ng/ul
RT: 11.469 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

Tgt Ion:107 Resp: 495033
Ion Ratio Lower Upper
107 100
144 26.8 21.1 31.7
142 80.2 65.3 97.9





#41

2,4,6-Trichlorophenol

Concen: 32.437 ng/ul

RT: 12.469 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

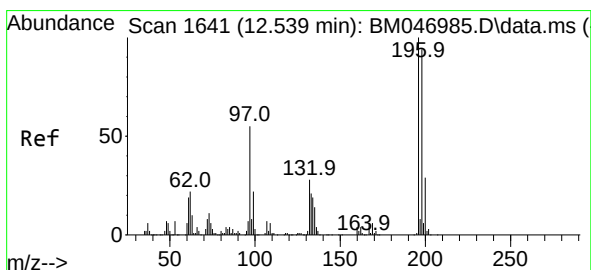
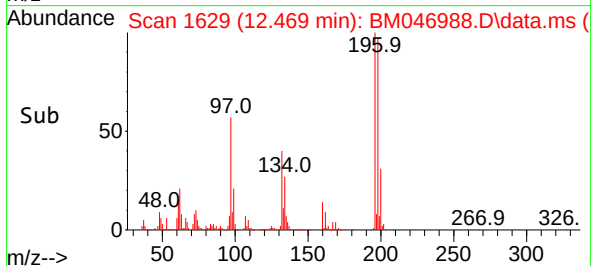
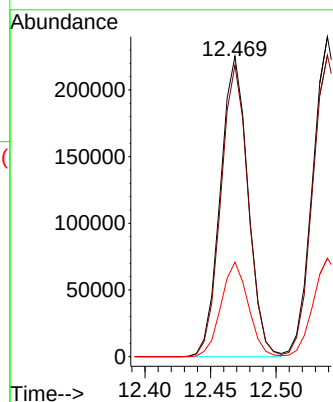
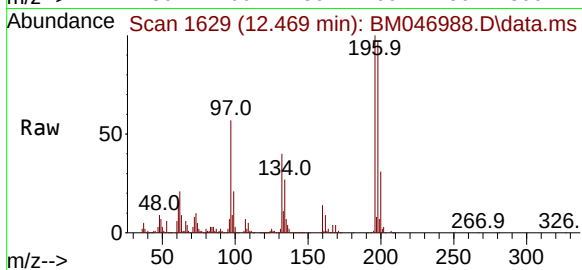
Tgt Ion:196 Resp: 330408

Ion Ratio Lower Upper

196 100

198 97.0 78.7 118.1

200 31.5 23.9 35.9



#42

2,4,5-Trichlorophenol

Concen: 33.862 ng/ul

RT: 12.539 min Scan# 1641

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

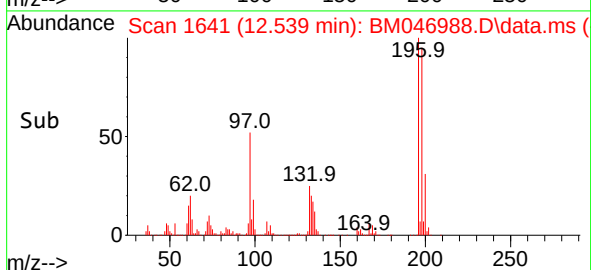
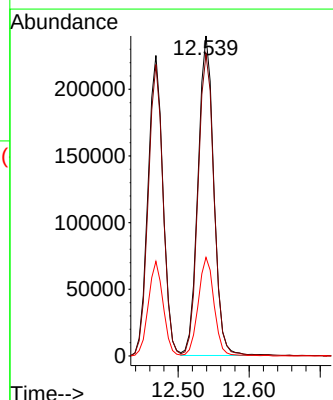
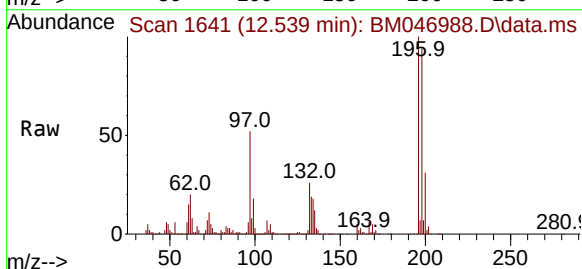
Tgt Ion:196 Resp: 372407

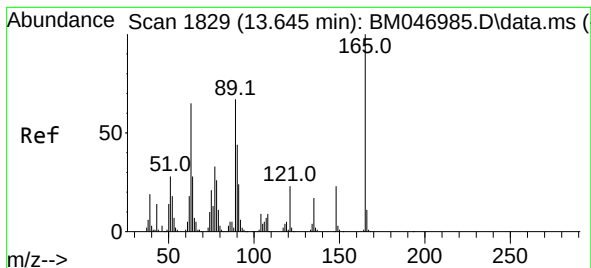
Ion Ratio Lower Upper

196 100

198 94.3 76.2 114.2

200 30.8 25.0 37.6





#48

2,6-Dinitrotoluene

Concen: 29.840 ng/ul

RT: 13.645 min Scan# 1829

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

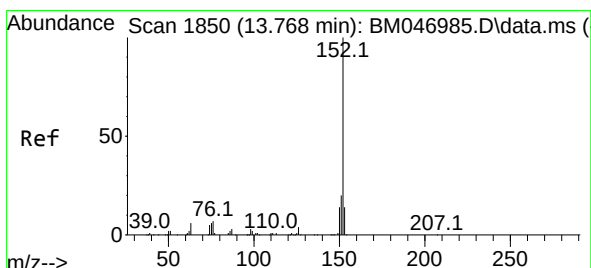
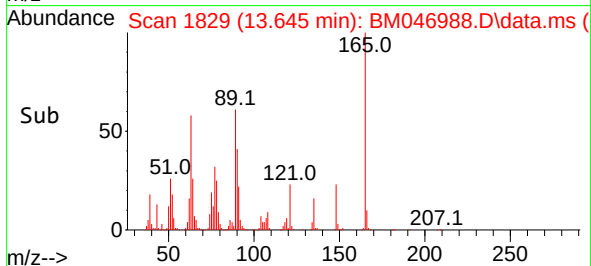
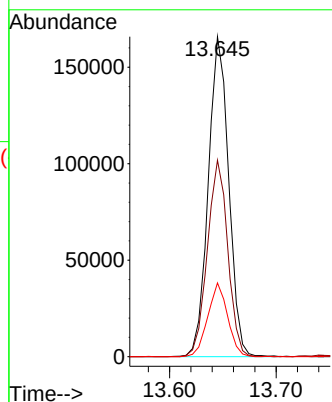
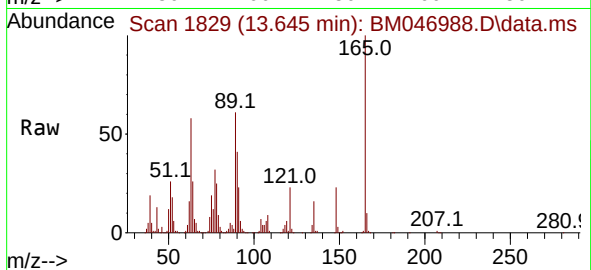
Tgt Ion:165 Resp: 220844

Ion Ratio Lower Upper

165 100

89 61.4 57.8 86.8

121 23.0 19.4 29.0



#50

Acenaphthylene

Concen: 39.452 ng/ul

RT: 13.774 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

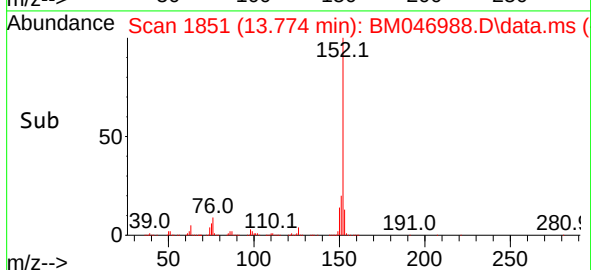
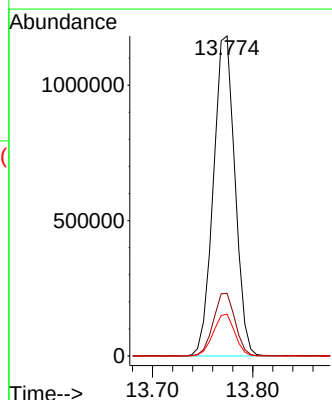
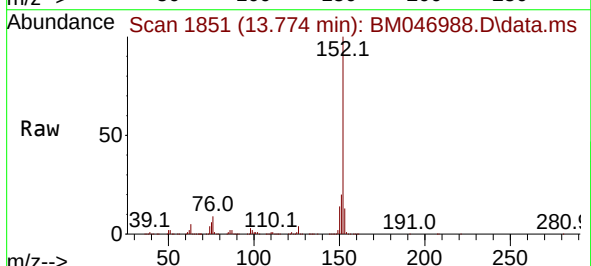
Tgt Ion:152 Resp: 1764590

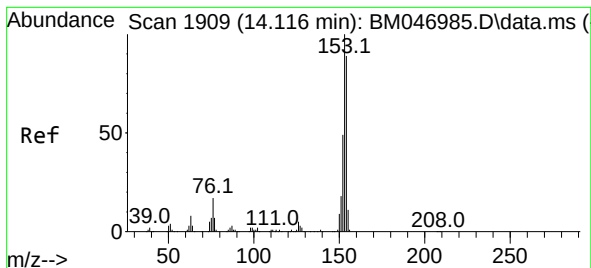
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.1 10.1 15.1





#52

Acenaphthene

Concen: 28.563 ng/ul

RT: 14.121 min Scan# 1910

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

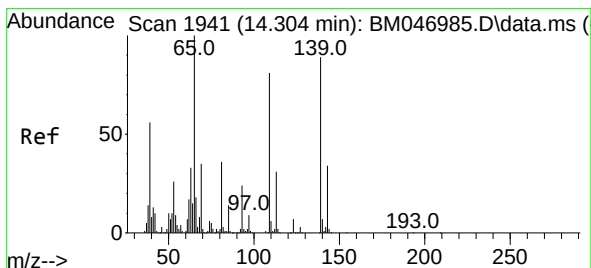
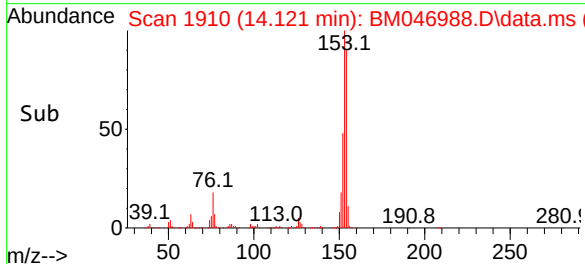
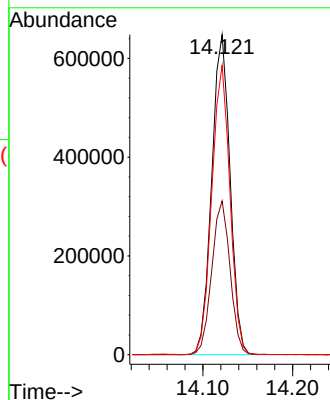
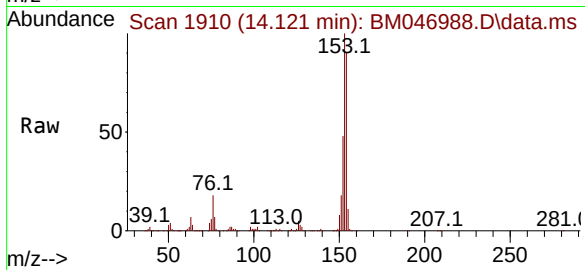
Tgt Ion:153 Resp: 921025

Ion Ratio Lower Upper

153 100

152 48.1 38.2 57.2

154 90.4 70.1 105.1



#55

4-Nitrophenol

Concen: 35.729 ng/ul

RT: 14.316 min Scan# 1943

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

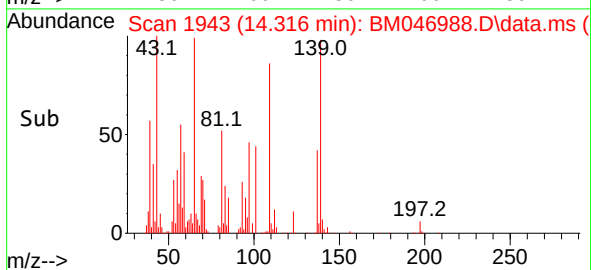
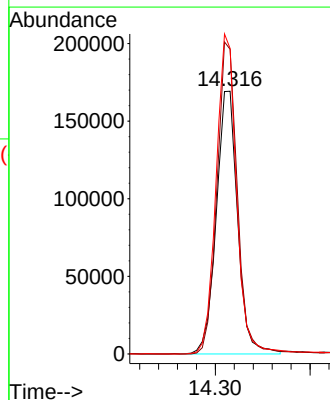
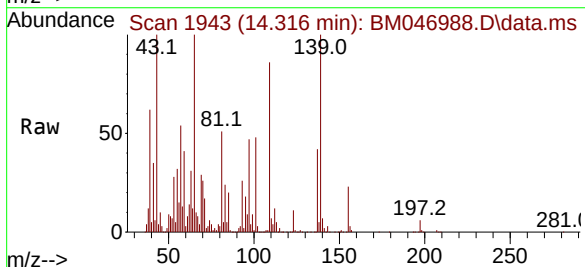
Tgt Ion:109 Resp: 265271

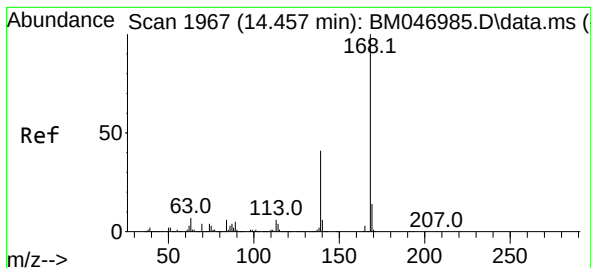
Ion Ratio Lower Upper

109 100

139 116.0 82.3 123.5

65 116.3 92.6 139.0





#56

Dibenzenofuran

Concen: 22.903 ng/ul

RT: 14.463 min Scan# 1967

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

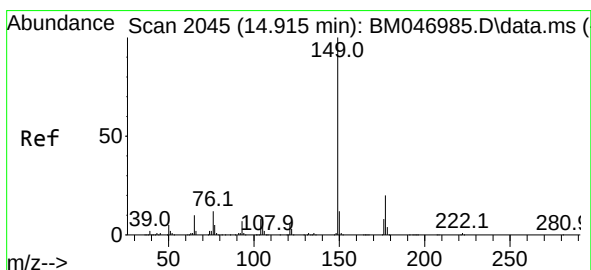
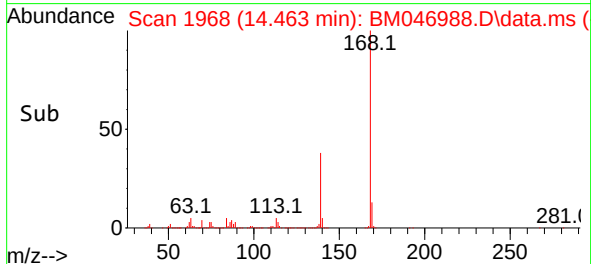
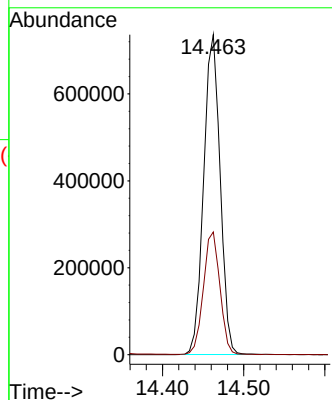
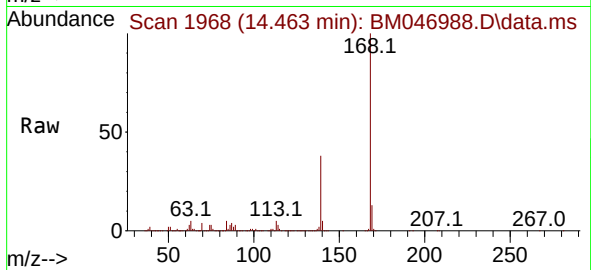
DCVT0DL

Tgt Ion:168 Resp: 1036454

Ion Ratio Lower Upper

168 100

139 38.4 33.0 49.4



#59

Diethylphthalate

Concen: 38.025 ng/ul

RT: 14.915 min Scan# 2045

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

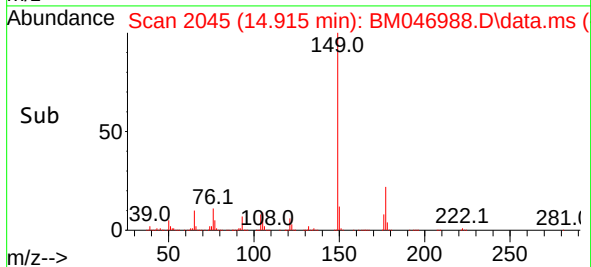
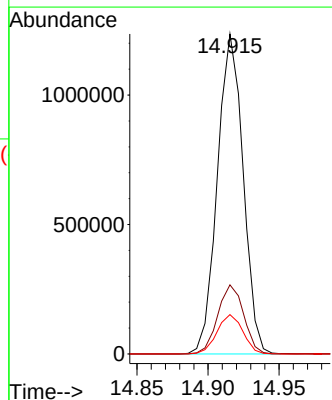
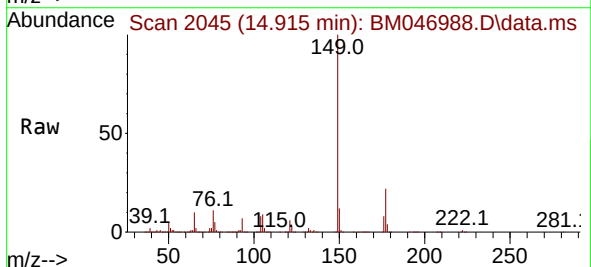
Tgt Ion:149 Resp: 1557323

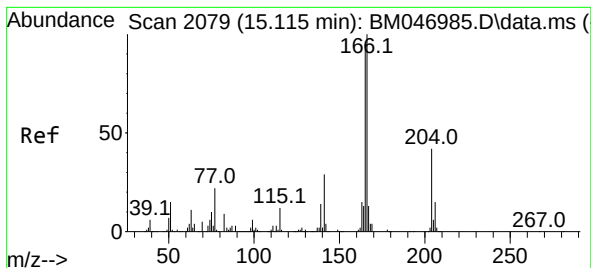
Ion Ratio Lower Upper

149 100

177 21.6 16.5 24.7

150 12.3 9.7 14.5





#61

Fluorene

Concen: 20.377 ng/ul

RT: 15.115 min Scan# 2079

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

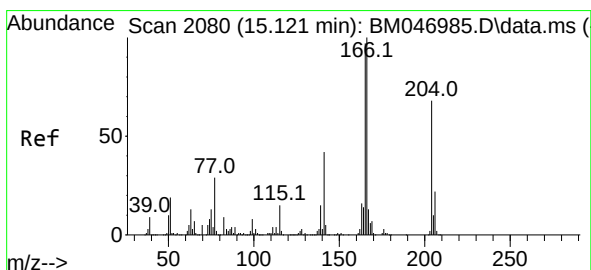
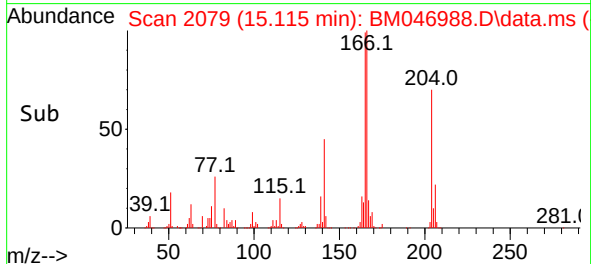
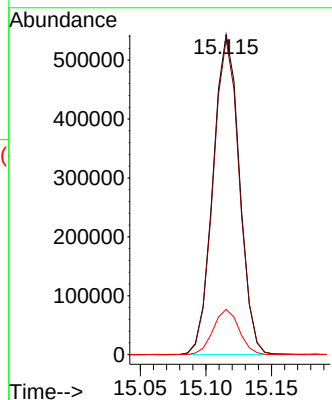
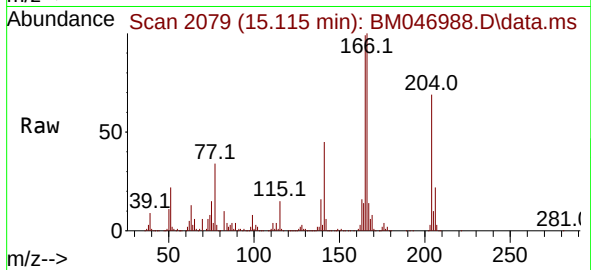
Tgt Ion:166 Resp: 760609

Ion Ratio Lower Upper

166 100

165 98.6 79.5 119.3

167 14.1 11.5 17.3



#62

4-Chlorophenyl-phenylether

Concen: 39.057 ng/ul

RT: 15.121 min Scan# 2080

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

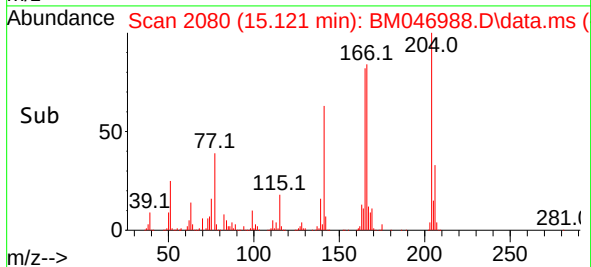
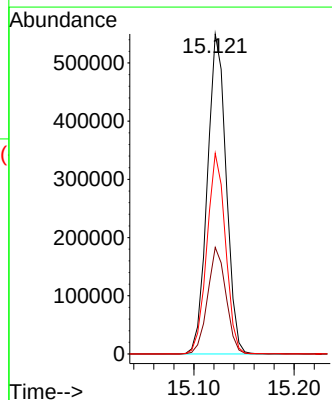
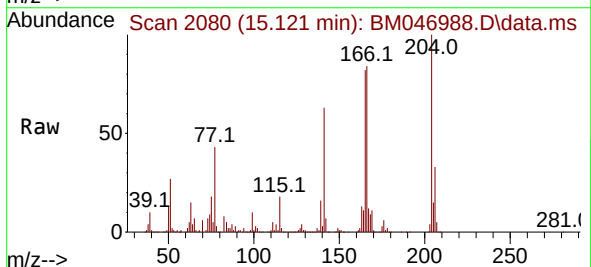
Tgt Ion:204 Resp: 717696

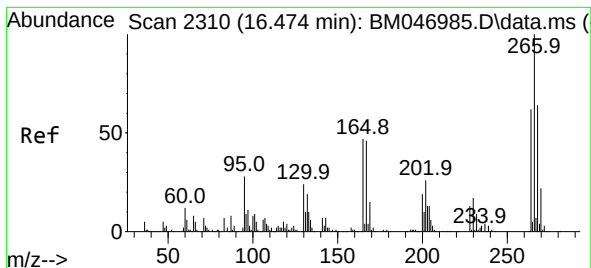
Ion Ratio Lower Upper

204 100

206 33.3 27.0 40.4

141 62.7 52.2 78.4





#71

Pentachlorophenol

Concen: 36.549 ng/ul

RT: 16.474 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

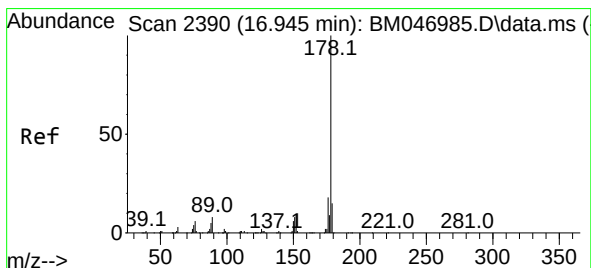
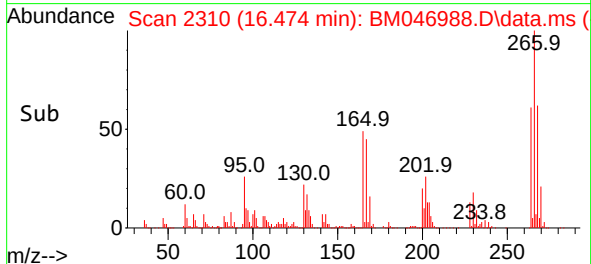
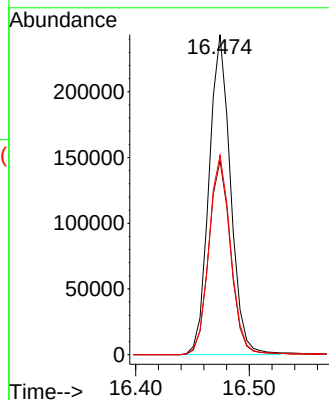
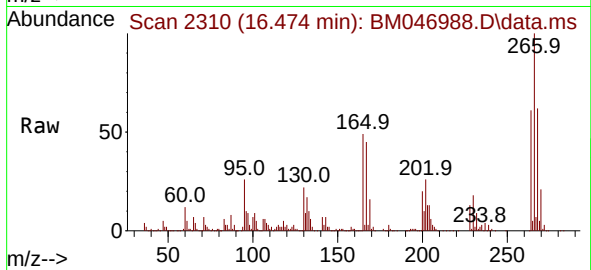
Tgt Ion:266 Resp: 320615

Ion Ratio Lower Upper

266 100

264 60.6 50.7 76.1

268 62.3 53.0 79.6



#74

Anthracene

Concen: 40.580 ng/ul

RT: 16.951 min Scan# 2391

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

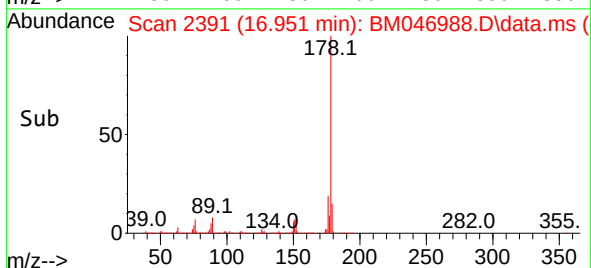
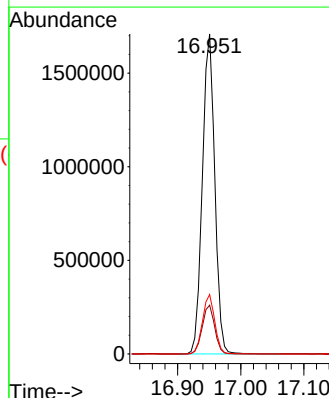
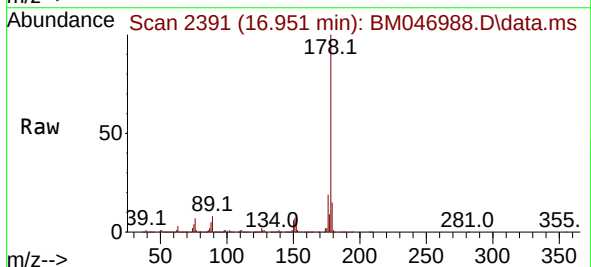
Tgt Ion:178 Resp: 2332090

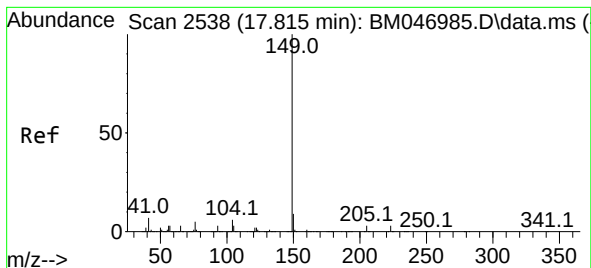
Ion Ratio Lower Upper

178 100

179 15.2 12.2 18.2

176 18.6 14.6 22.0





#78

Di-n-butylphthalate

Concen: 17.758 ng/ul

RT: 17.815 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

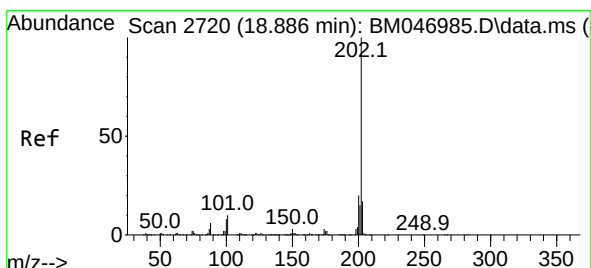
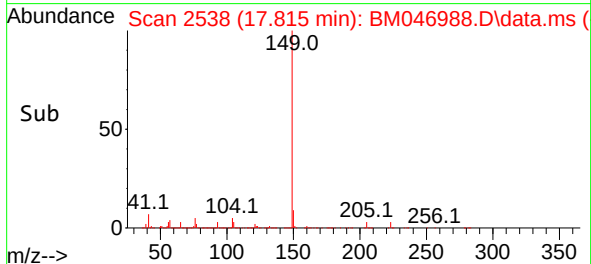
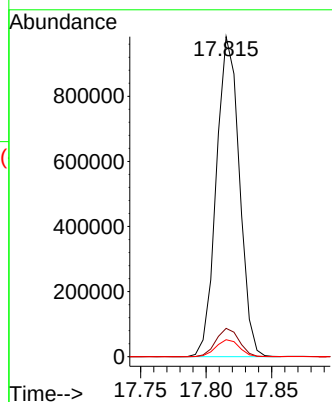
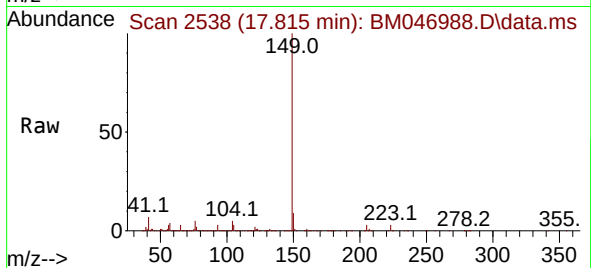
Tgt Ion:149 Resp: 1203081

Ion Ratio Lower Upper

149 100

150 8.8 7.0 10.6

104 5.3 4.8 7.2



#80

Fluoranthene

Concen: 36.612 ng/ul

RT: 18.892 min Scan# 2721

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

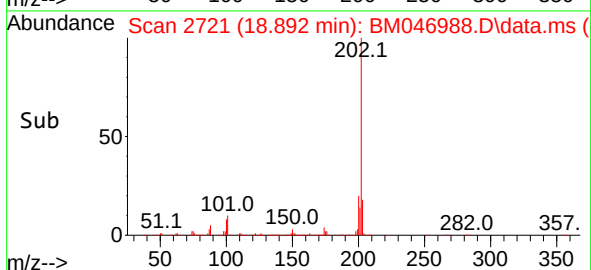
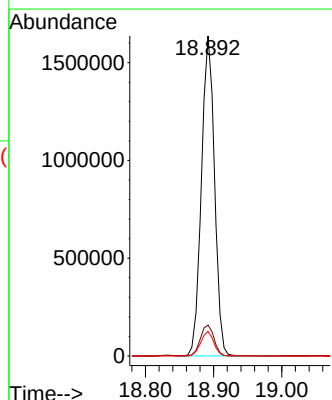
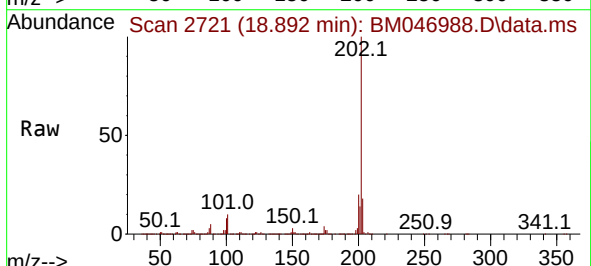
Tgt Ion:202 Resp: 2183936

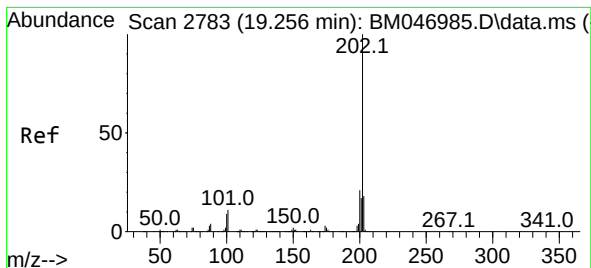
Ion Ratio Lower Upper

202 100

101 9.7 7.8 11.6

100 7.7 5.9 8.9





#82

Pyrene

Concen: 43.610 ng/ul

RT: 19.256 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

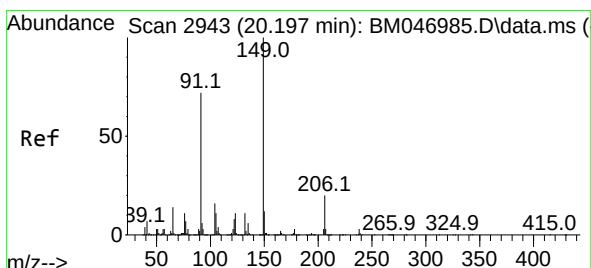
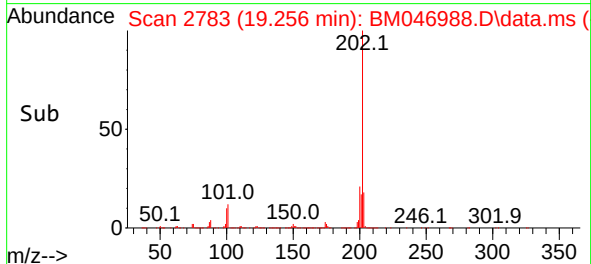
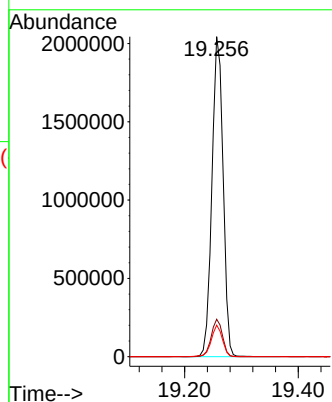
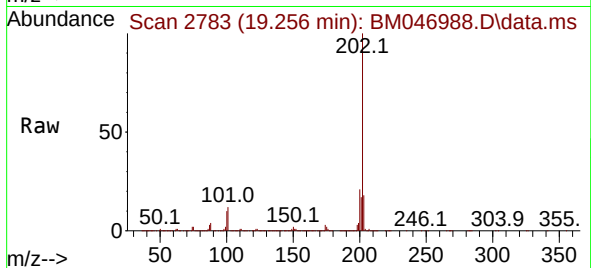
Tgt Ion:202 Resp: 2771814

Ion Ratio Lower Upper

202 100

101 11.7 8.7 13.1

100 9.9 6.8 10.2



#83

Butylbenzylphthalate

Concen: 55.049 ng/ul

RT: 20.197 min Scan# 2943

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

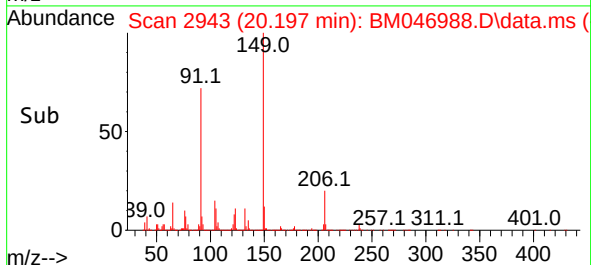
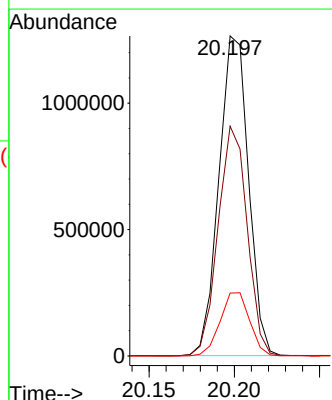
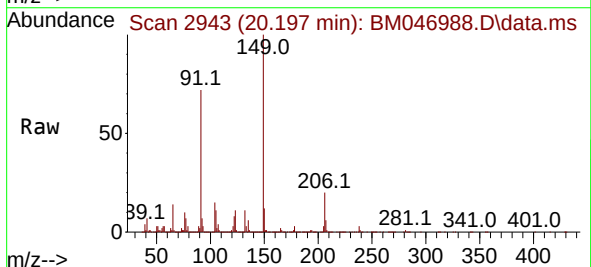
Tgt Ion:149 Resp: 1529257

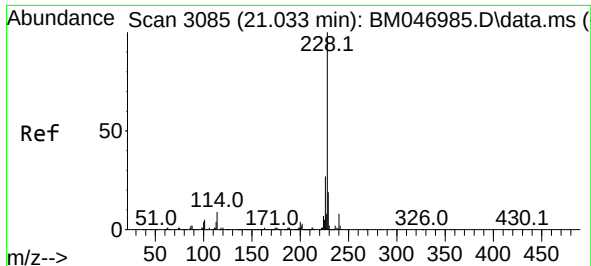
Ion Ratio Lower Upper

149 100

91 71.8 55.3 82.9

206 19.7 16.2 24.4

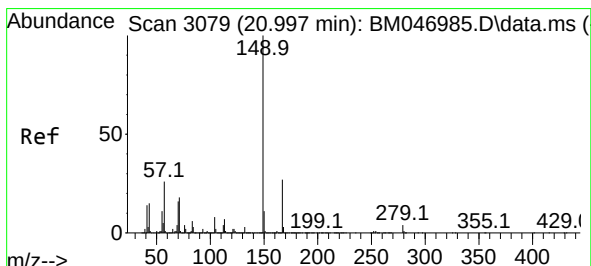
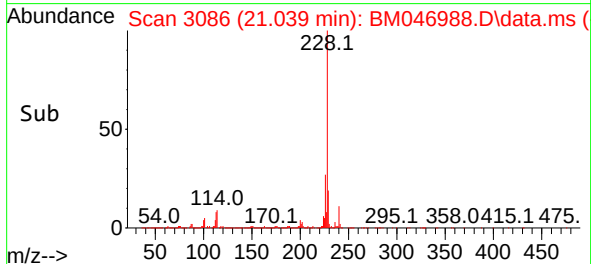
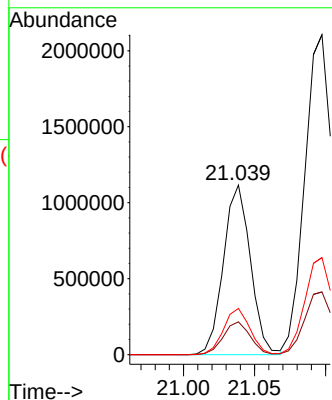
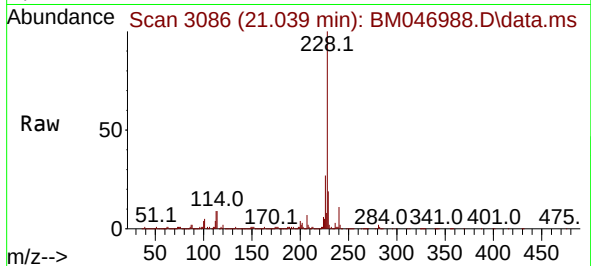




#85
Benzo(a)anthracene
Concen: 23.252 ng/ul
RT: 21.039 min Scan# 3085
Delta R.T. -0.000 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

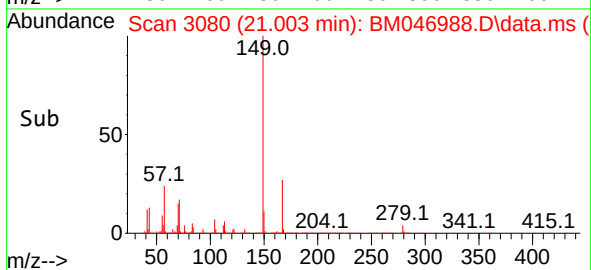
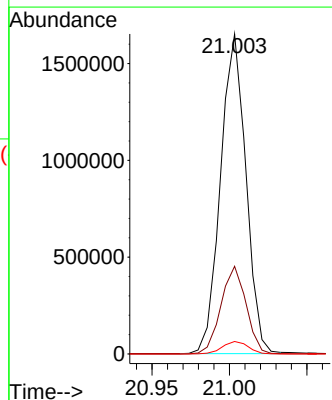
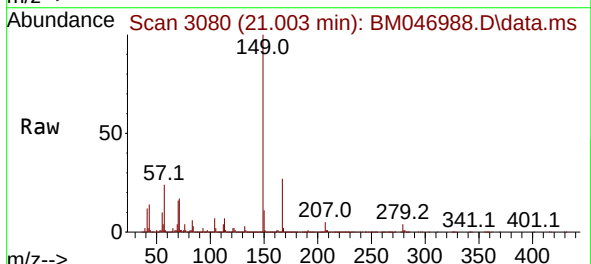
Instrument :
BNA_M
ClientSampleId :
DCVT0DL

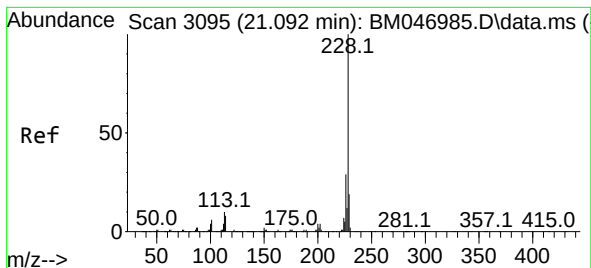
Tgt Ion:228 Resp: 1480694
Ion Ratio Lower Upper
228 100
229 19.3 15.5 23.3
226 27.2 21.2 31.8



#86
Bis(2-ethylhexyl)phthalate
Concen: 46.319 ng/ul
RT: 21.003 min Scan# 3080
Delta R.T. -0.000 min
Lab File: BM046988.D
Acq: 05 Aug 2024 11:32

Tgt Ion:149 Resp: 1878498
Ion Ratio Lower Upper
149 100
167 27.4 21.3 31.9
279 3.9 3.3 4.9





#87

Chrysene

Concen: 46.801 ng/ul

RT: 21.097 min Scan# 3095

Delta R.T. -0.000 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

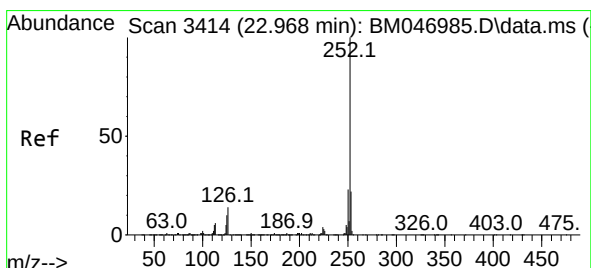
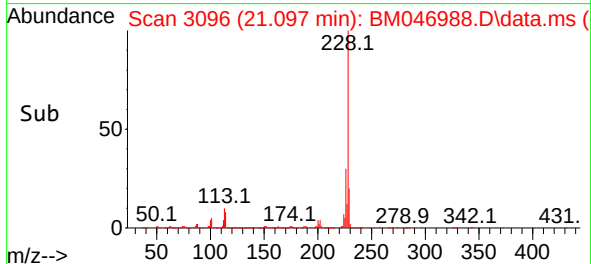
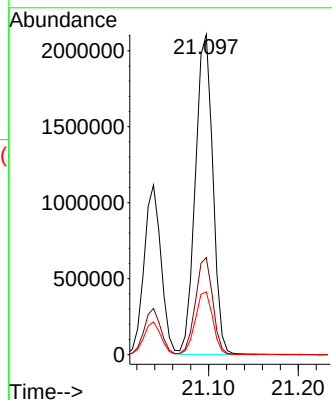
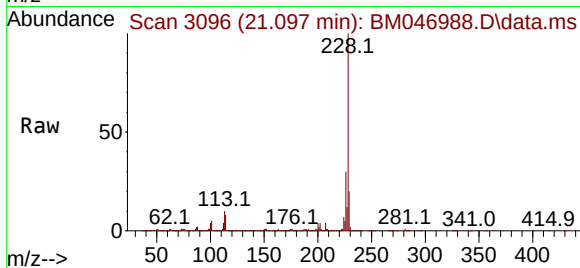
Tgt Ion:228 Resp: 2842402

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

229 19.6 15.5 23.3



#91

Benzo(k)fluoranthene

Concen: 21.590 ng/ul

RT: 22.974 min Scan# 3415

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

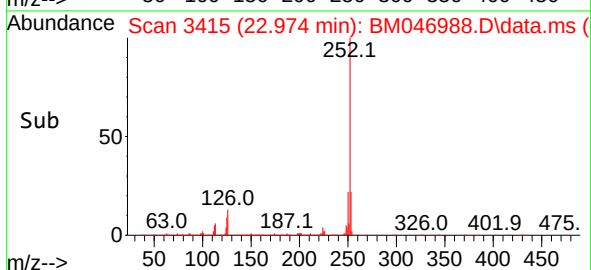
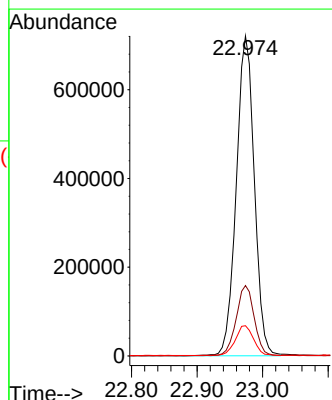
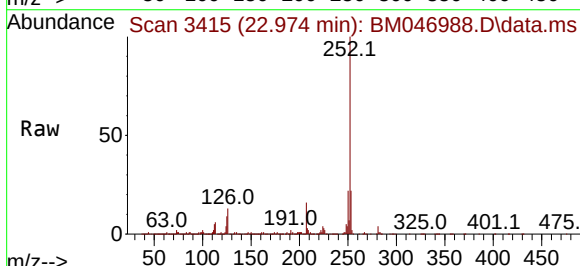
Tgt Ion:252 Resp: 1381480

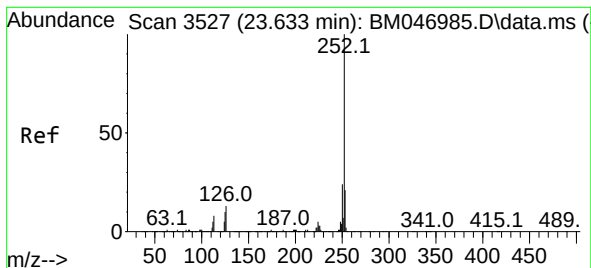
Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

125 9.5 6.9 10.3





#93

Benzo(a)pyrene

Concen: 10.557 ng/ul

RT: 23.638 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

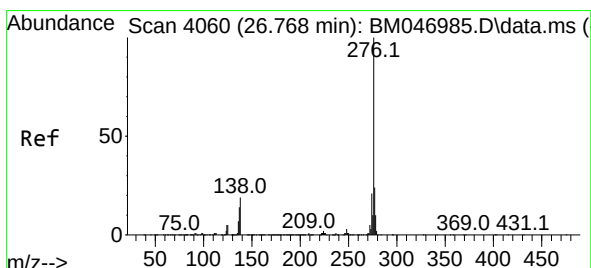
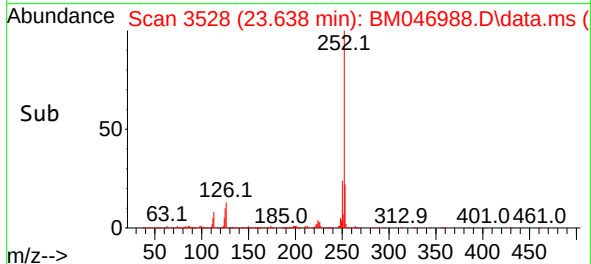
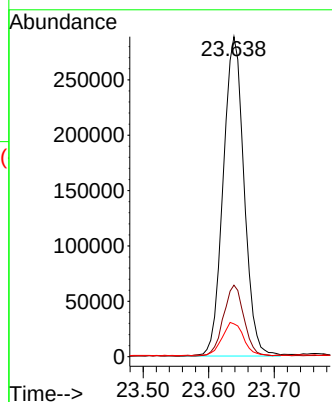
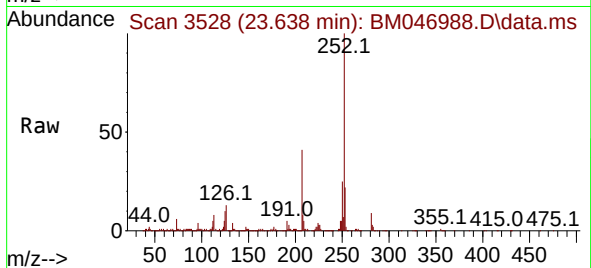
Tgt Ion:252 Resp: 636867

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.2

125 10.3 8.1 12.1



#94

Indeno(1,2,3-cd)pyrene

Concen: 28.231 ng/ul

RT: 26.785 min Scan# 4063

Delta R.T. 0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

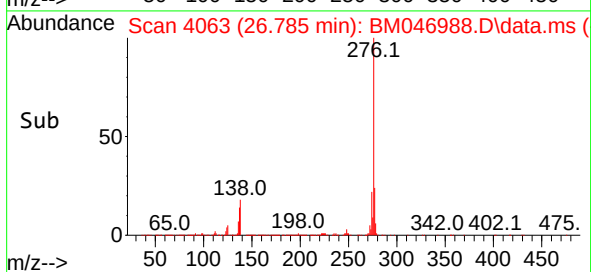
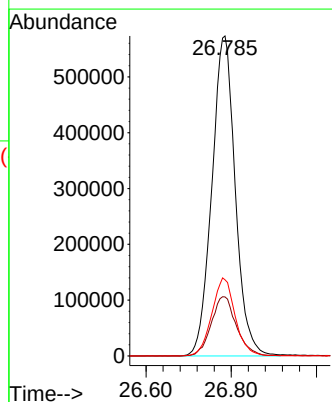
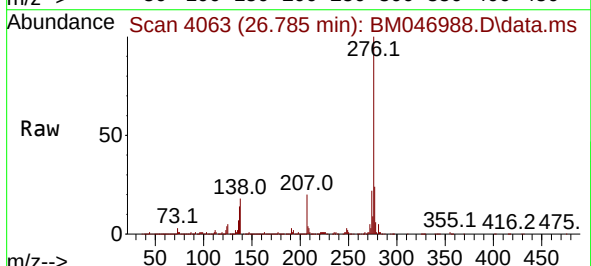
Tgt Ion:276 Resp: 2181929

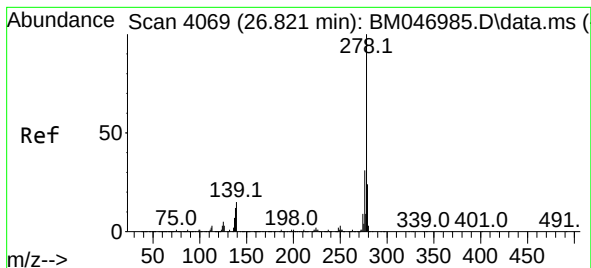
Ion Ratio Lower Upper

276 100

138 18.5 14.7 22.1

277 23.8 19.3 28.9





#95

Dibenzo(a,h)anthracene

Concen: 8.182 ng/ul

RT: 26.826 min Scan# 4069

Delta R.T. -0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Instrument :

BNA_M

ClientSampleId :

DCVT0DL

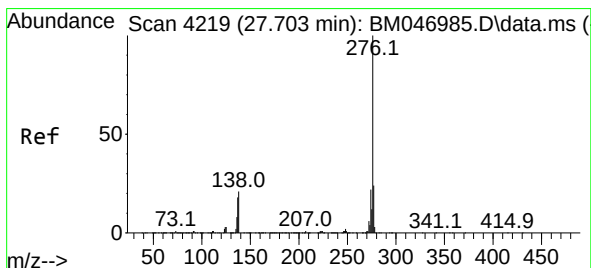
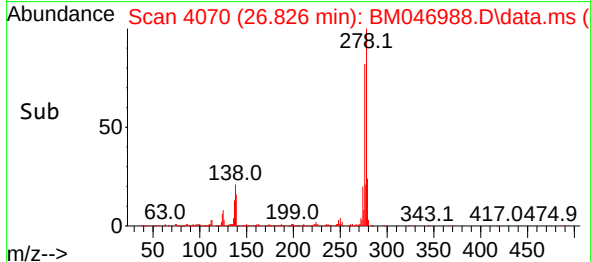
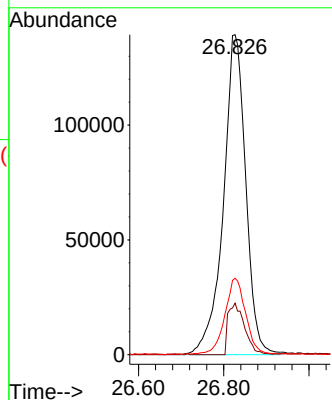
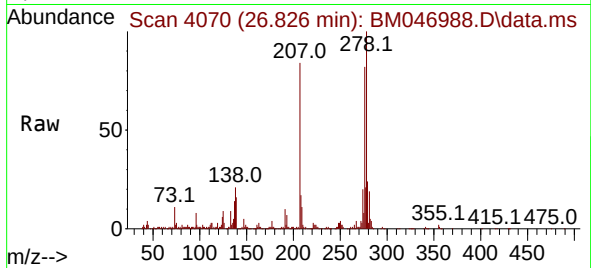
Tgt Ion:278 Resp: 507935

Ion Ratio Lower Upper

278 100

139 16.1 11.4 17.0

279 23.9 19.4 29.0



#96

Benzo(g,h,i)perylene

Concen: 33.877 ng/ul

RT: 27.721 min Scan# 4222

Delta R.T. 0.006 min

Lab File: BM046988.D

Acq: 05 Aug 2024 11:32

Tgt Ion:276 Resp: 2068741

Ion Ratio Lower Upper

276 100

138 19.8 14.7 22.1

277 23.4 18.6 27.8

