

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082324\
 Data File : BM047333.D
 Acq On : 23 Aug 2024 14:48
 Operator : RC/JU
 Sample : P3652-01MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

Quant Time: Aug 23 15:36:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Aug 11 23:47:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.351	152	334232	20.000	ng	-0.02
21) Naphthalene-d8	10.104	136	1242968	20.000	ng	-0.03
39) Acenaphthene-d10	14.010	164	804051	20.000	ng	-0.02
64) Phenanthrene-d10	16.774	188	1621671	20.000	ng	-0.02
76) Chrysene-d12	21.021	240	1089141	20.000	ng	-0.01
86) Perylene-d12	23.709	264	1156252	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	1882611	100.646	ng	-0.01
7) Phenol-d6	6.575	99	2449354	95.031	ng	-0.01
23) Nitrobenzene-d5	8.504	82	1637518	66.337	ng	-0.02
42) 2,4,6-Tribromophenol	15.527	330	1025027	109.945	ng	-0.01
45) 2-Fluorobiphenyl	12.621	172	3790343	72.716	ng	-0.02
79) Terphenyl-d14	19.445	244	5029091	98.942	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.022	88	274207	35.380	ng	95
3) Pyridine	3.393	79	728097	32.037	ng	98
4) n-Nitrosodimethylamine	3.316	42	353426	35.595	ng	98
6) Aniline	6.704	93	908505	37.293	ng	99
8) 2-Chlorophenol	6.934	128	916672	44.932	ng	97
9) Benzaldehyde	6.516	77	459790	31.156	ng	99
10) Phenol	6.598	94	1067077	41.491	ng	98
11) bis(2-Chloroethyl)ether	6.804	93	872034	39.594	ng	98
12) 1,3-Dichlorobenzene	7.239	146	1015195	41.875	ng	97
13) 1,4-Dichlorobenzene	7.387	146	1033613	42.110	ng	98
14) 1,2-Dichlorobenzene	7.692	146	995041	42.964	ng	99
15) Benzyl Alcohol	7.610	79	807316	44.011	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.875	45	1077939	38.142	ng	98
17) 2-Methylphenol	7.822	107	732444	42.689	ng	98
18) Hexachloroethane	8.398	117	387115	40.715	ng	95
19) n-Nitroso-di-n-propyla...	8.163	70	641953	36.977	ng	97
20) 3+4-Methylphenols	8.145	107	992118	41.361	ng	98
22) Acetophenone	8.175	105	1243123	41.433	ng	99
24) Nitrobenzene	8.545	77	983347	39.561	ng	95
25) Isophorone	9.069	82	1827320	42.515	ng	97
26) 2-Nitrophenol	9.239	139	528248	47.988	ng	96
27) 2,4-Dimethylphenol	9.328	122	719133	55.770	ng	100
28) bis(2-Chloroethoxy)met...	9.551	93	1130142	41.788	ng	99
29) 2,4-Dichlorophenol	9.781	162	948617	49.581	ng	98
30) 1,2,4-Trichlorobenzene	9.975	180	977441	45.143	ng	99
31) Naphthalene	10.157	128	2647170	42.751	ng	100
32) Benzoic acid	9.533	122	655466	43.753	ng	97
33) 4-Chloroaniline	10.286	127	772862	32.457	ng	99
34) Hexachlorobutadiene	10.439	225	630701	49.767	ng	100
35) Caprolactam	11.110	113	288977	43.492	ng	91
36) 4-Chloro-3-methylphenol	11.445	107	900875	44.212	ng	99
37) 2-Methylnaphthalene	11.780	142	1929124	43.757	ng	99
38) 1-Methylnaphthalene	12.010	142	1800976	41.334	ng	99
40) 1,2,4,5-Tetrachloroben...	12.163	216	1091660	49.777	ng	98
41) Hexachlorocyclopentadiene	12.139	237	1009336	131.802	ng	98
43) 2,4,6-Trichlorophenol	12.427	196	777198	49.859	ng	99

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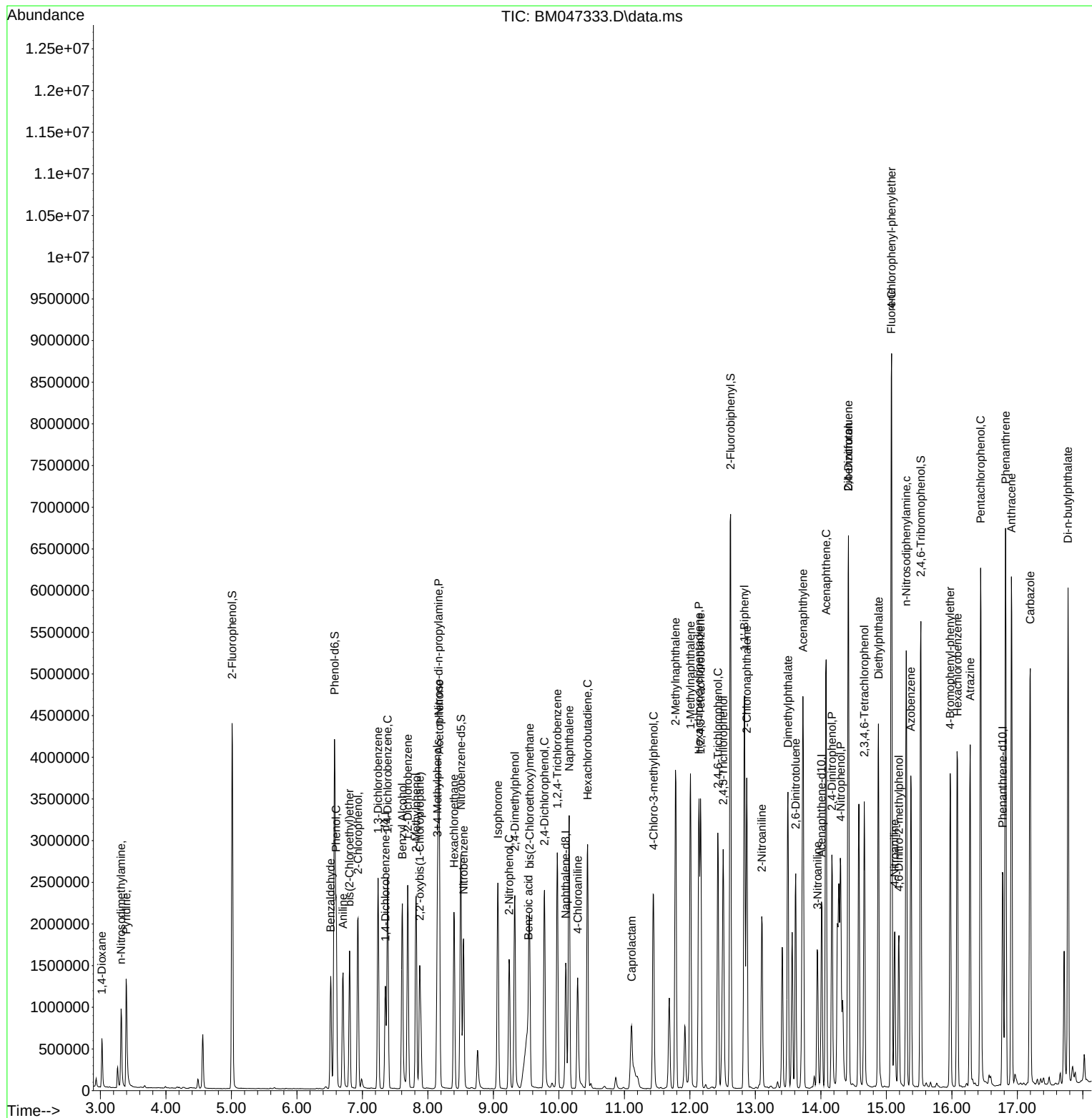
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.510	196	829763	47.943	ng	96
46) 1,1'-Biphenyl	12.833	154	2494121	43.572	ng	98
47) 2-Chloronaphthalene	12.869	162	1926647	43.063	ng	98
48) 2-Nitroaniline	13.098	65	582371	41.549	ng	96
49) Acenaphthylene	13.727	152	3082520	46.741	ng	100
50) Dimethylphthalate	13.498	163	2502624	44.566	ng	99
51) 2,6-Dinitrotoluene	13.616	165	569753	43.403	ng	88
52) Acenaphthene	14.080	154	1877721	44.886	ng	99
53) 3-Nitroaniline	13.951	138	469486	35.692	ng	94
54) 2,4-Dinitrophenol	14.168	184	699513	88.910	ng	91
55) Dibenzofuran	14.421	168	2906543	43.987	ng	98
56) 4-Nitrophenol	14.304	139	891722	78.617	ng	96
57) 2,4-Dinitrotoluene	14.421	165	739377	42.198	ng	97
58) Fluorene	15.074	166	2350607	43.114	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.663	232	709535	49.883	ng	93
60) Diethylphthalate	14.880	149	2448526	42.698	ng	98
61) 4-Chlorophenyl-phenyle...	15.080	204	1193764	45.991	ng	93
62) 4-Nitroaniline	15.127	138	506482	39.084	ng	96
63) Azobenzene	15.374	77	2165166	39.821	ng	95
65) 4,6-Dinitro-2-methylph...	15.192	198	444196	46.784	ng	88
66) n-Nitrosodiphenylamine	15.304	169	2057047	46.571	ng	99
67) 4-Bromophenyl-phenylether	15.974	248	777219	49.737	ng	97
68) Hexachlorobenzene	16.086	284	881925	47.123	ng	94
69) Atrazine	16.280	200	783537	58.950	ng	98
70) Pentachlorophenol	16.439	266	1179170	89.882	ng	99
71) Phenanthrene	16.821	178	4012992	49.309	ng	100
72) Anthracene	16.909	178	3789930	47.859	ng	99
73) Carbazole	17.198	167	3442222	42.573	ng	99
74) Di-n-butylphthalate	17.774	149	4319389	45.912	ng	99
75) Fluoranthene	18.856	202	4833611	48.829	ng	99
77) Benzidine	19.062	184	1350286	73.106	ng	99
78) Pyrene	19.221	202	4945407	63.592	ng	99
80) Butylbenzylphthalate	20.162	149	1753293	55.244	ng	93
81) Benzo(a)anthracene	21.003	228	3691978	51.062	ng	100
82) 3,3'-Dichlorobenzidine	20.944	252	1147224	50.712	ng	99
83) Chrysene	21.062	228	3348019	48.805	ng	100
84) Bis(2-ethylhexyl)phtha...	20.956	149	2366605	52.581	ng	98
85) Di-n-octyl phthalate	21.986	149	3857938	50.430	ng	97
87) Indeno(1,2,3-cd)pyrene	26.709	276	3863105	51.689	ng	97
88) Benzo(b)fluoranthene	22.874	252	3340456	48.648	ng	99
89) Benzo(k)fluoranthene	22.927	252	3129987	48.259	ng	98
90) Benzo(a)pyrene	23.586	252	3113924	52.350	ng	98
91) Dibenzo(a,h)anthracene	26.756	278	2903565	48.006	ng	99
92) Benzo(g,h,i)perylene	27.632	276	3061813	48.757	ng	98

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

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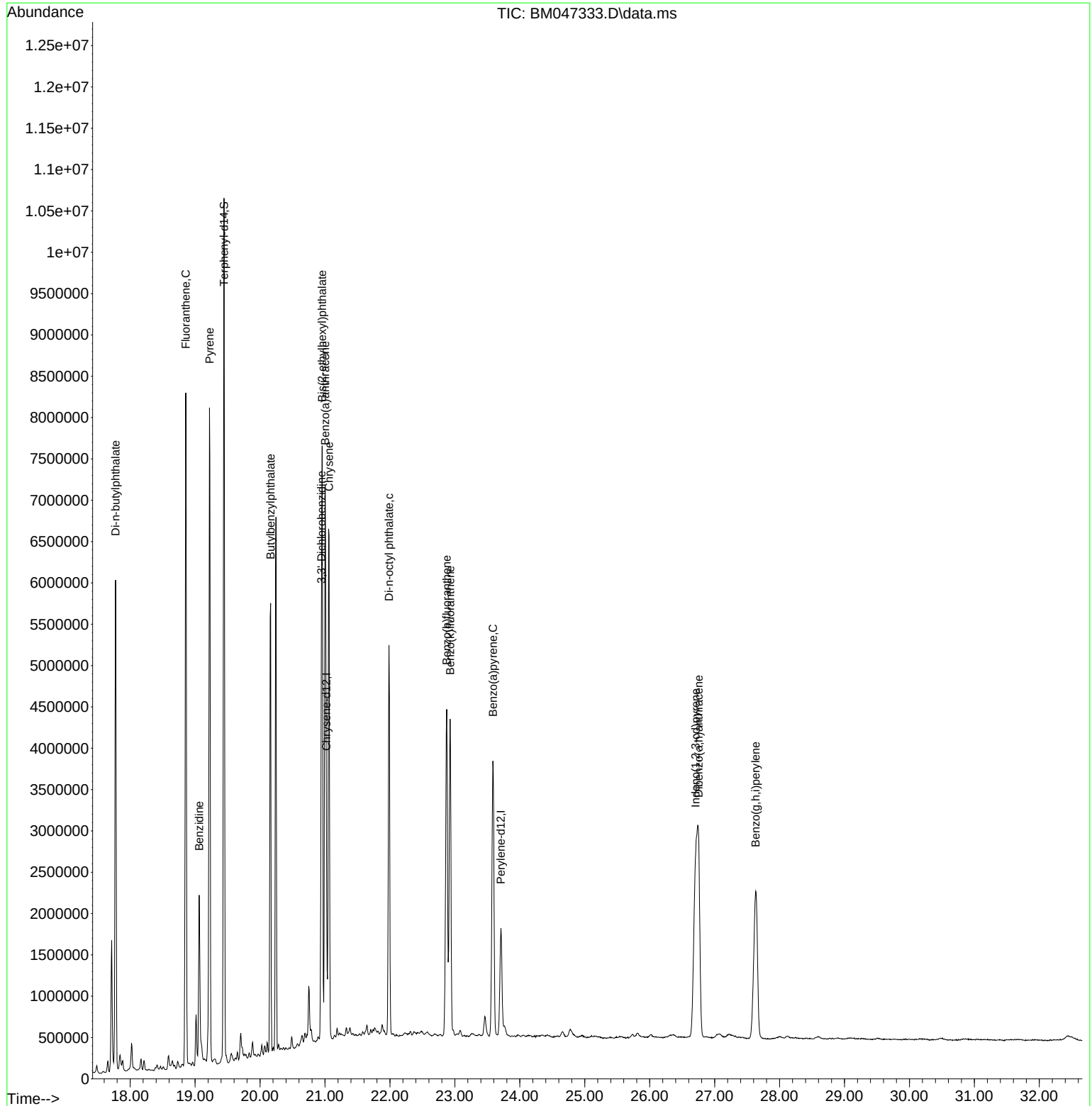
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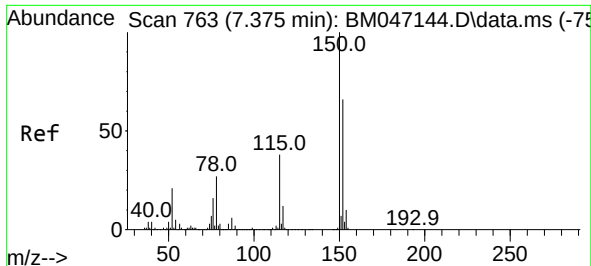


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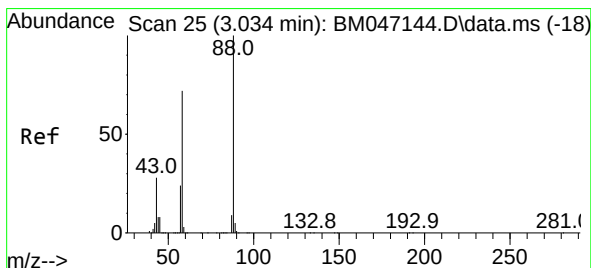
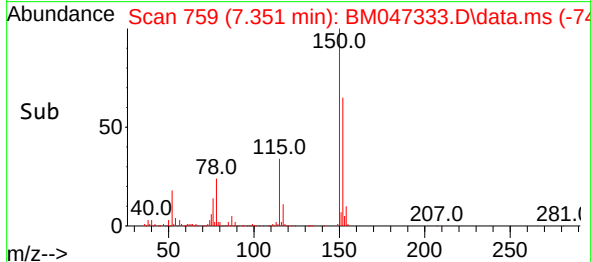
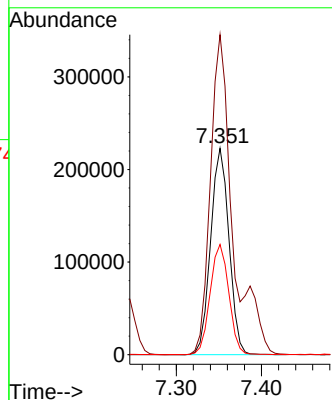
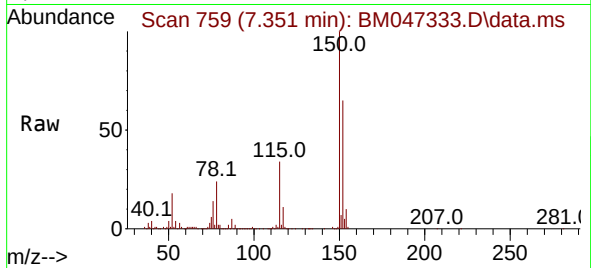




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.351 min Scan# 71
 Delta R.T. -0.024 min
 Lab File: BM047333.D
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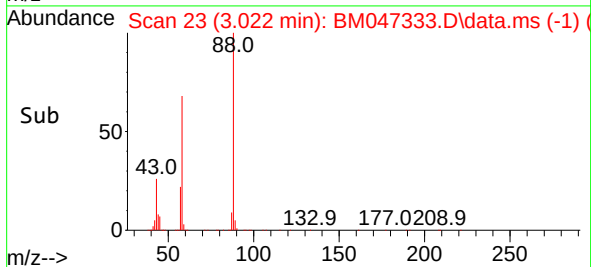
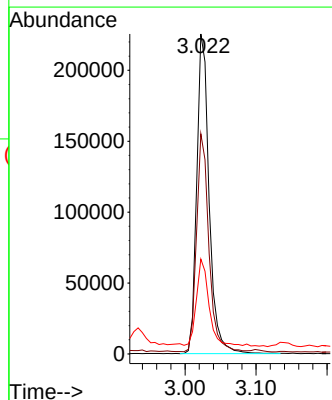
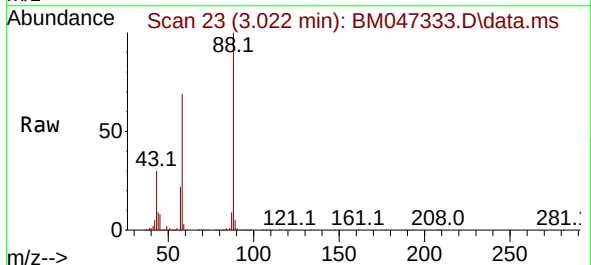
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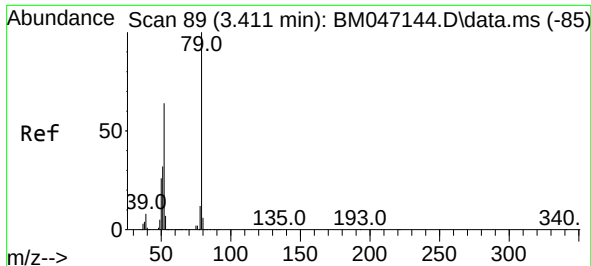
Tgt Ion:152 Resp: 334232
 Ion Ratio Lower Upper
 152 100
 150 155.0 120.5 180.7
 115 53.4 45.5 68.3



#2
 1,4-Dioxane
 Concen: 35.380 ng
 RT: 3.022 min Scan# 23
 Delta R.T. -0.012 min
 Lab File: BM047333.D
 Acq: 23 Aug 2024 14:48

Tgt Ion: 88 Resp: 274207
 Ion Ratio Lower Upper
 88 100
 58 67.4 58.2 87.4
 43 28.8 22.5 33.7

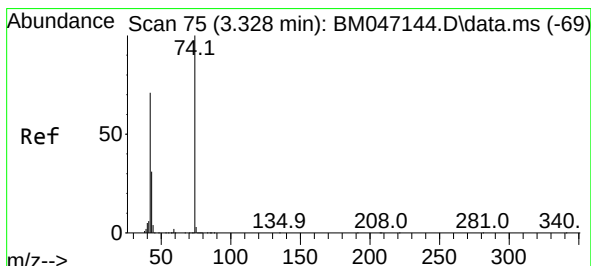
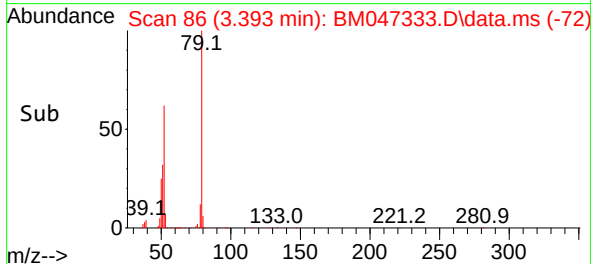
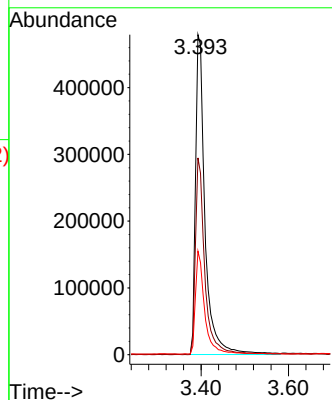
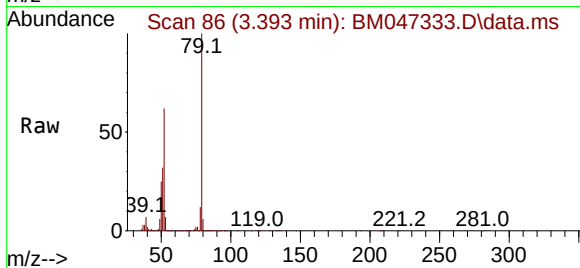




#3
Pyridine
Concen: 32.037 ng
RT: 3.393 min Scan# 80
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

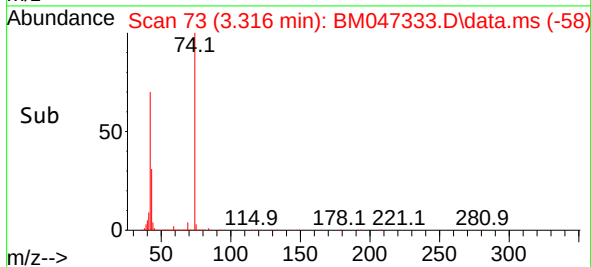
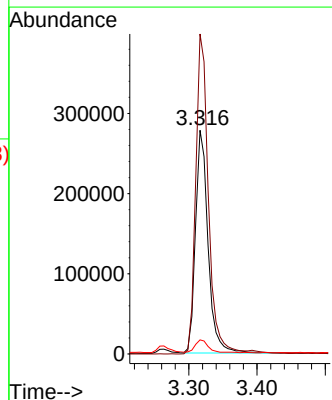
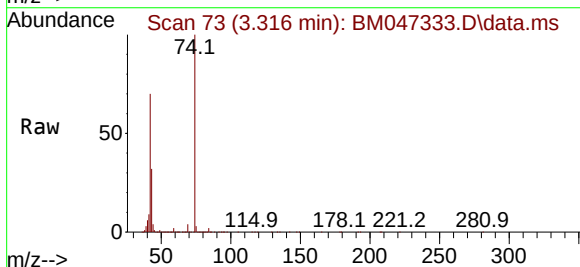
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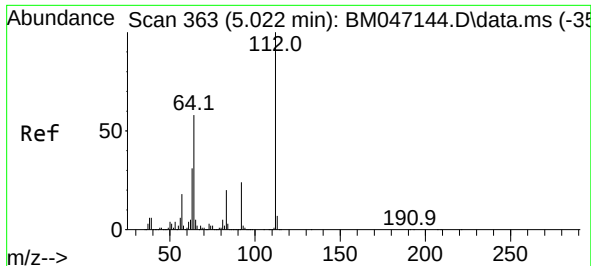
Tgt Ion: 79 Resp: 728097
Ion Ratio Lower Upper
79 100
52 61.5 51.2 76.8
51 32.4 26.1 39.1



#4
n-Nitrosodimethylamine
Concen: 35.595 ng
RT: 3.316 min Scan# 73
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 42 Resp: 353426
Ion Ratio Lower Upper
42 100
74 143.0 112.9 169.3
44 6.3 5.3 7.9

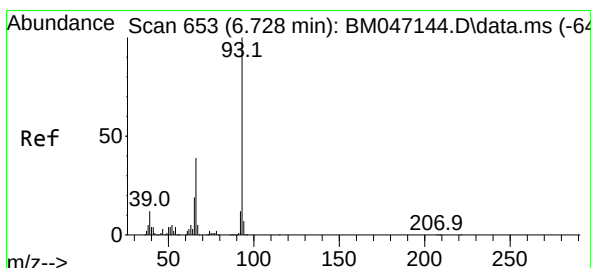
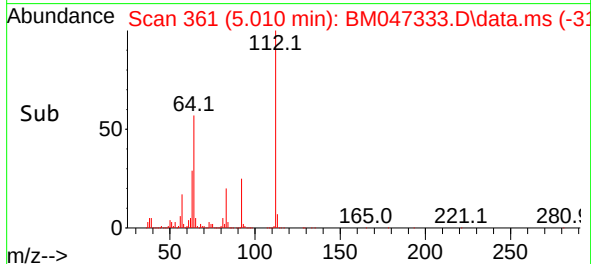
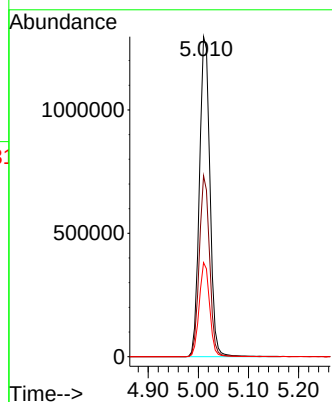
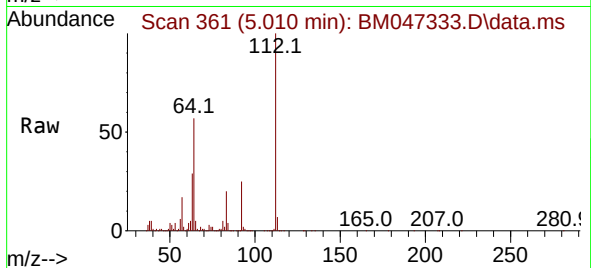




#5
2-Fluorophenol
Concen: 100.646 ng
RT: 5.010 min Scan# 30
Delta R.T. -0.012 min
Lab File: BM047333.D
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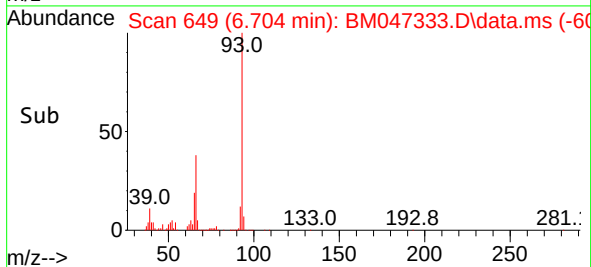
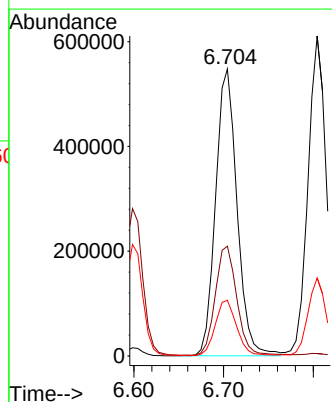
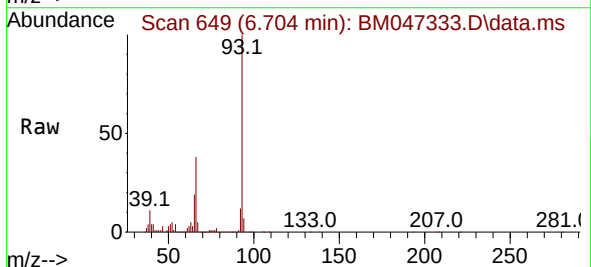
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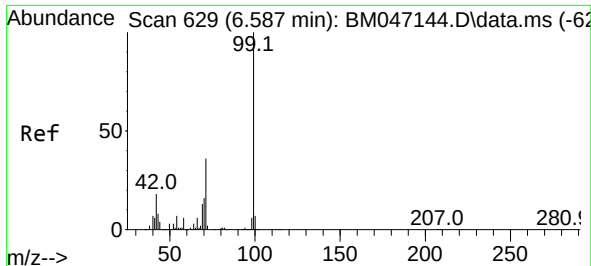
Tgt Ion:112 Resp: 1882611
Ion Ratio Lower Upper
112 100
64 56.6 46.7 70.1
63 29.4 24.8 37.2



#6
Aniline
Concen: 37.293 ng
RT: 6.704 min Scan# 649
Delta R.T. -0.024 min
Lab File: BM047333.D
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Tgt Ion: 93 Resp: 908505
Ion Ratio Lower Upper
93 100
66 38.2 31.4 47.2
65 19.4 15.6 23.4

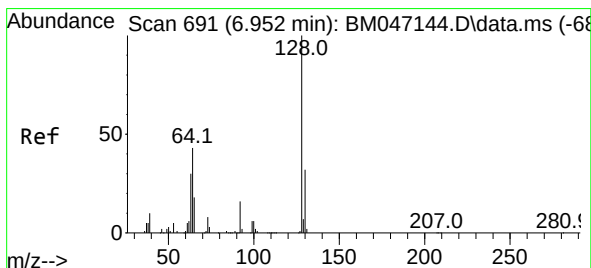
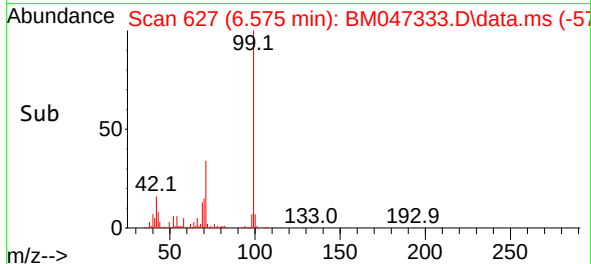
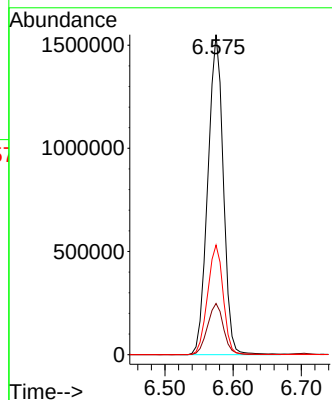
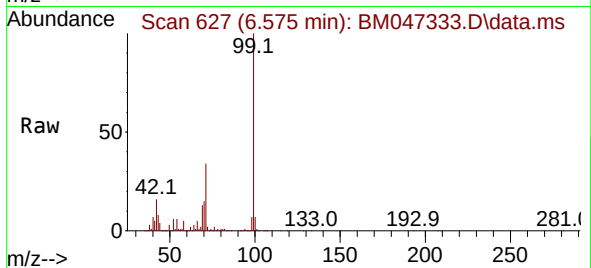




#7
Phenol-d6
Concen: 95.031 ng
RT: 6.575 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM047333.D
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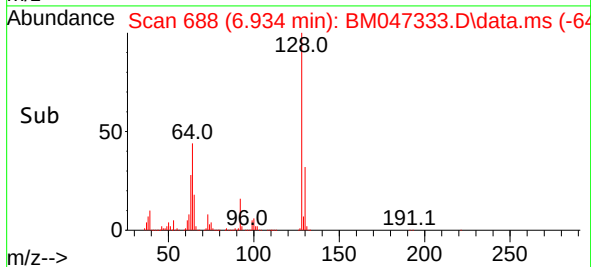
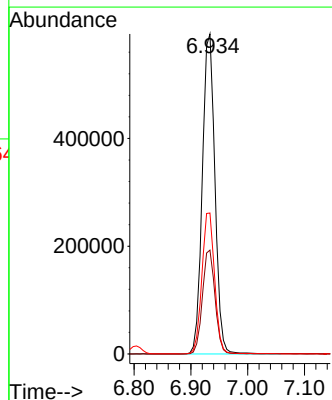
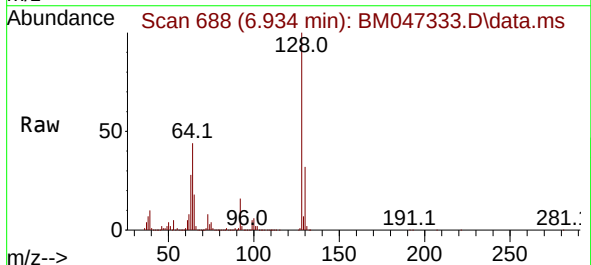
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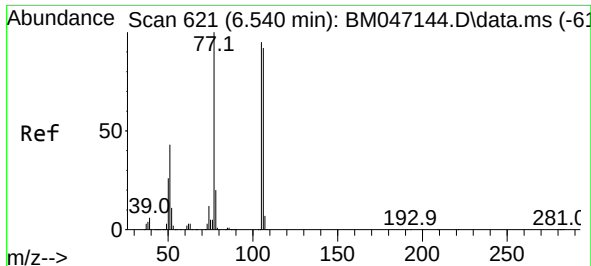
Tgt Ion: 99 Resp: 2449354
Ion Ratio Lower Upper
99 100
42 16.0 14.1 21.1
71 34.2 28.5 42.7



#8
2-Chlorophenol
Concen: 44.932 ng
RT: 6.934 min Scan# 688
Delta R.T. -0.018 min
Lab File: BM047333.D
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Tgt Ion: 128 Resp: 916672
Ion Ratio Lower Upper
128 100
130 32.5 12.1 52.1
64 44.0 26.6 66.6

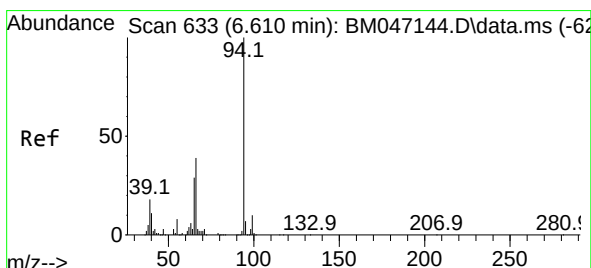
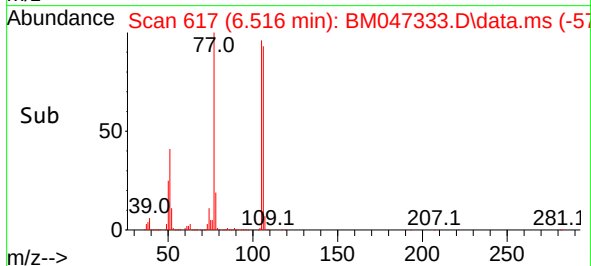
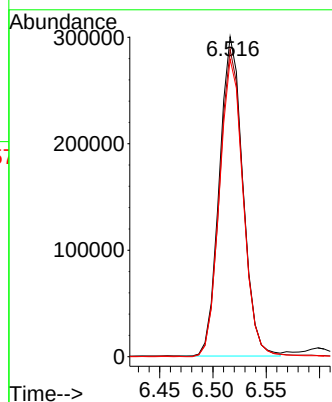
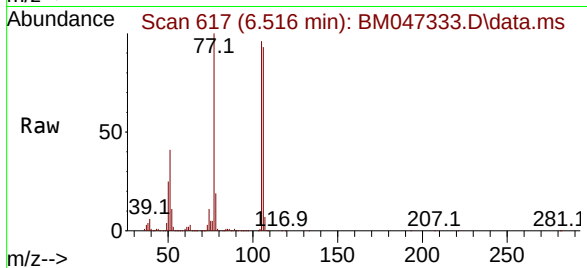




#9
Benzaldehyde
Concen: 31.156 ng
RT: 6.516 min Scan# 61
Delta R.T. -0.024 min
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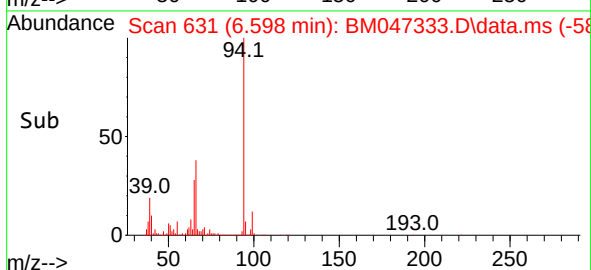
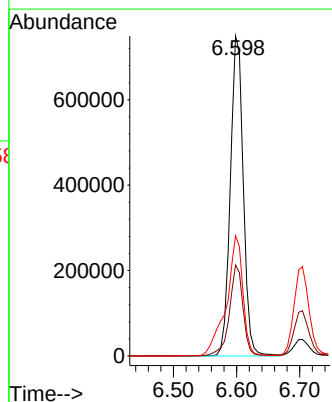
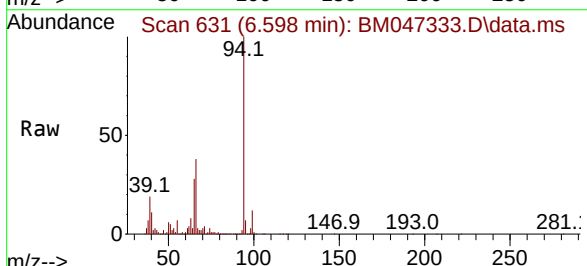
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

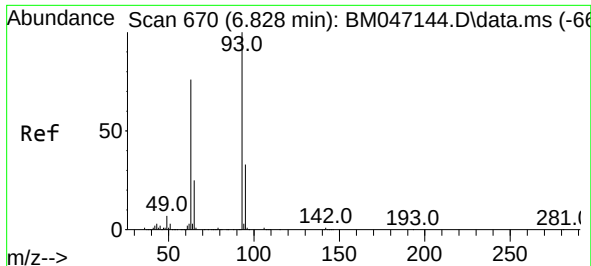
Tgt Ion: 77 Resp: 459790
Ion Ratio Lower Upper
77 100
105 96.0 74.5 114.5
106 93.0 72.3 112.3



#10
Phenol
Concen: 41.491 ng
RT: 6.598 min Scan# 631
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 94 Resp: 1067077
Ion Ratio Lower Upper
94 100
65 28.4 9.0 49.0
66 37.6 18.9 58.9

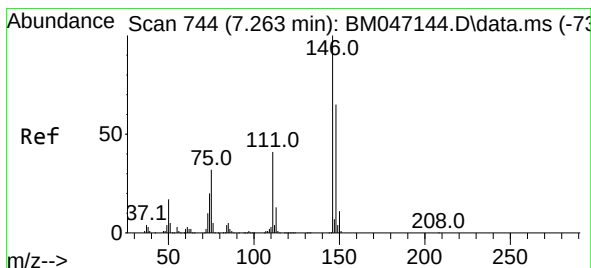
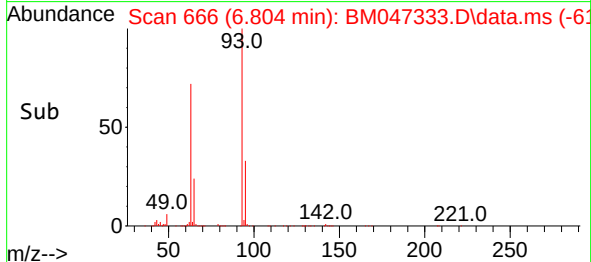
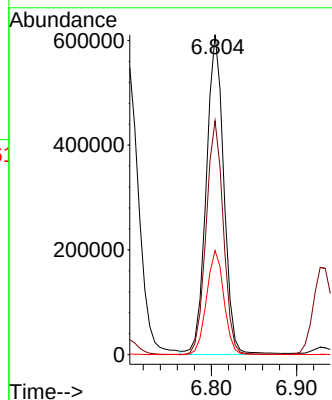
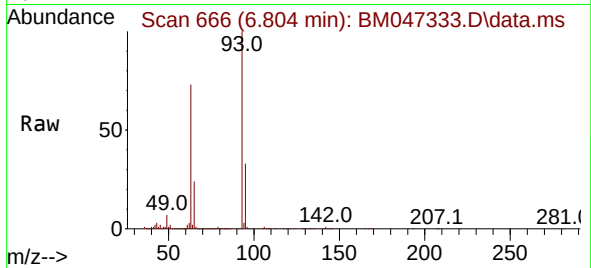




#11
bis(2-Chloroethyl)ether
Concen: 39.594 ng
RT: 6.804 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

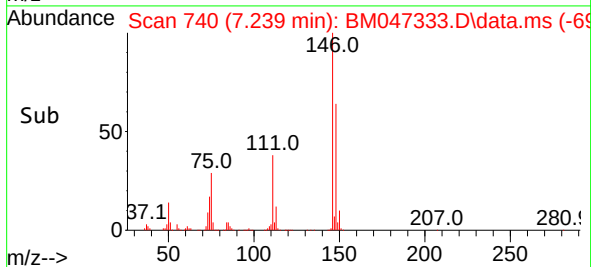
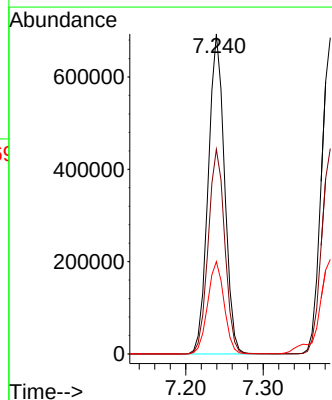
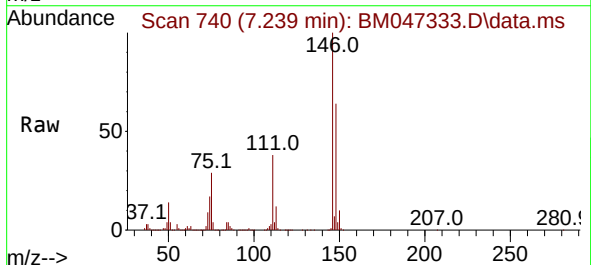
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

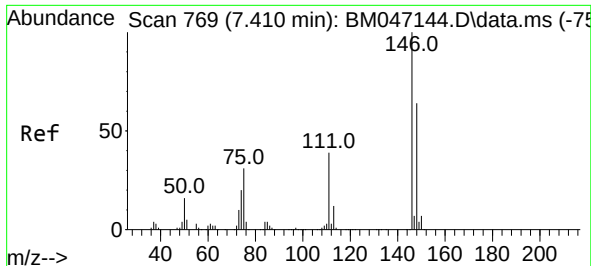
Tgt Ion: 93 Resp: 872034
Ion Ratio Lower Upper
93 100
63 73.1 55.8 95.8
95 32.5 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 41.875 ng
RT: 7.239 min Scan# 740
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 146 Resp: 1015195
Ion Ratio Lower Upper
146 100
148 63.9 52.3 78.5
75 28.8 25.8 38.6

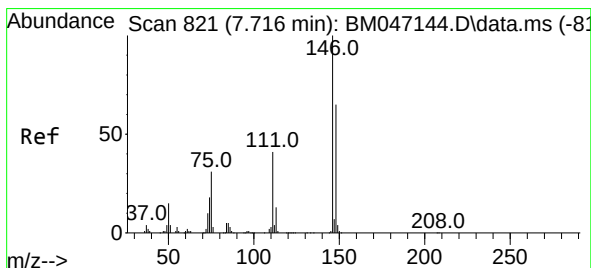
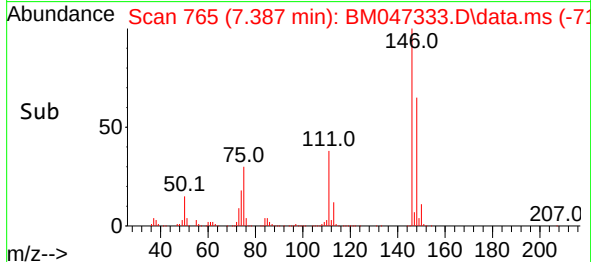
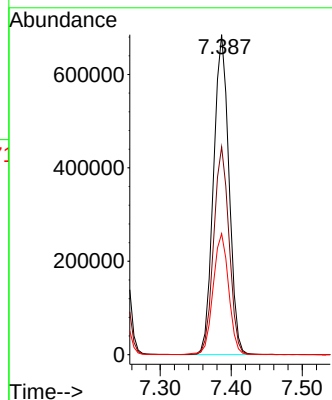
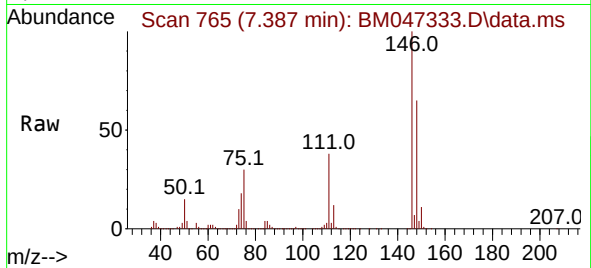




#13
1,4-Dichlorobenzene
Concen: 42.110 ng
RT: 7.387 min Scan# 70
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

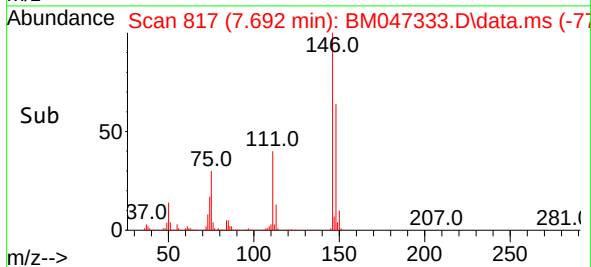
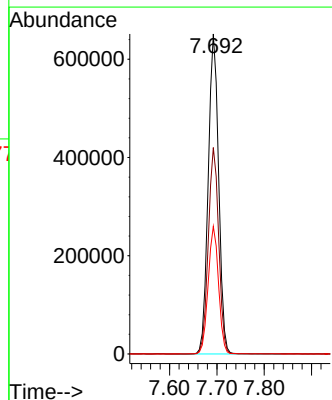
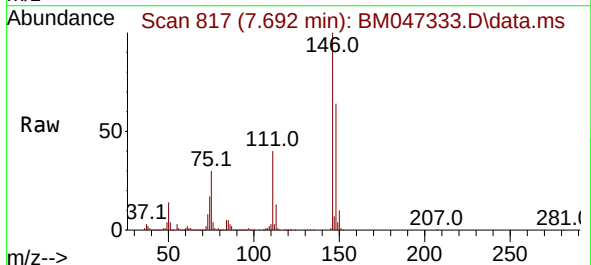
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

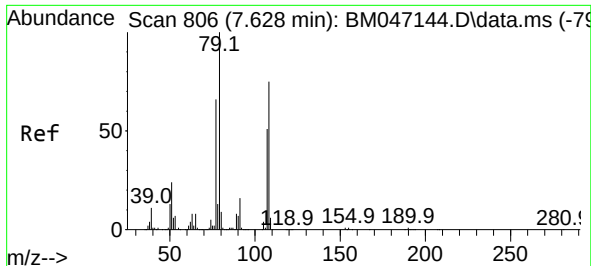
Tgt Ion:146 Resp: 1033613
Ion Ratio Lower Upper
146 100
148 65.0 51.4 77.2
111 37.8 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 42.964 ng
RT: 7.692 min Scan# 817
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:146 Resp: 995041
Ion Ratio Lower Upper
146 100
148 64.5 51.8 77.8
111 39.9 33.3 49.9

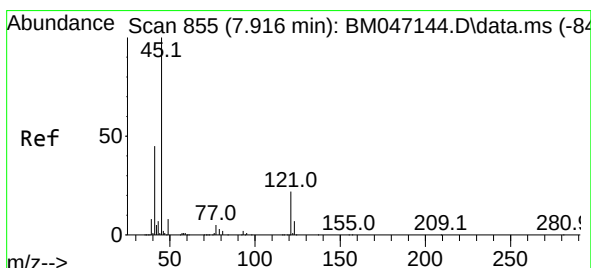
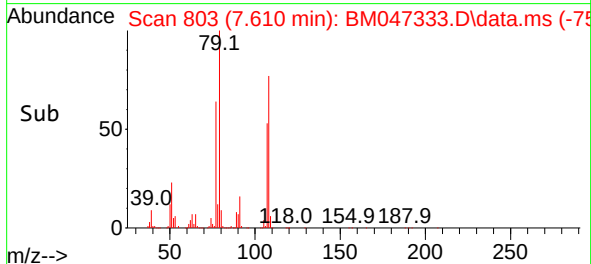
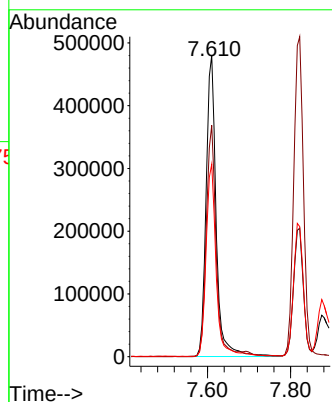
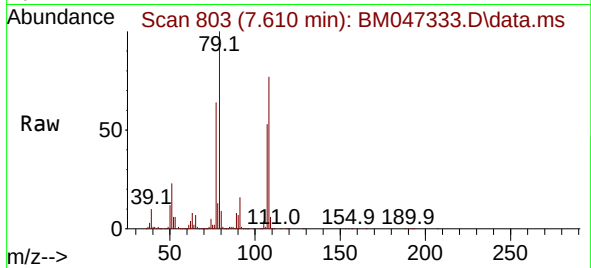




#15
Benzyl Alcohol
Concen: 44.011 ng
RT: 7.610 min Scan# 803
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

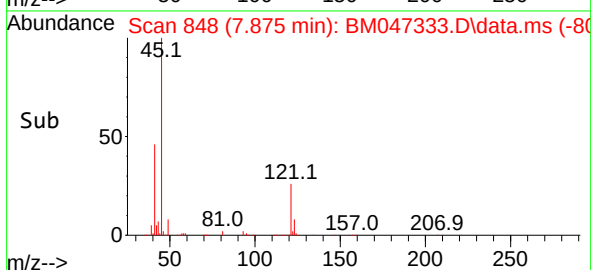
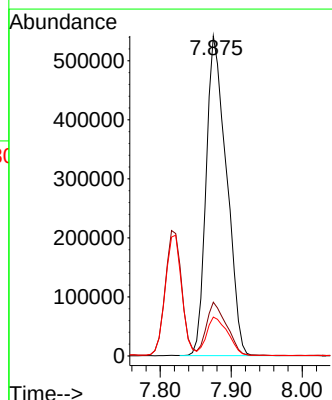
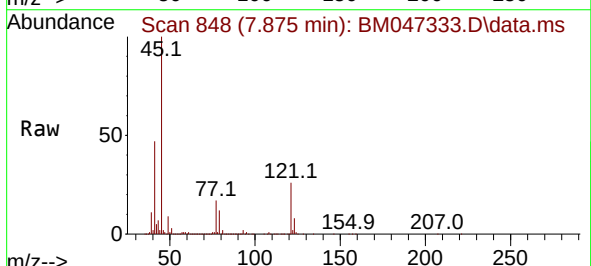
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

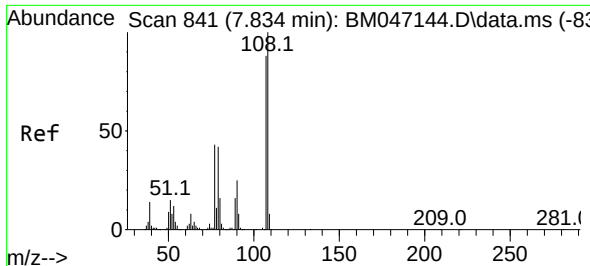
Tgt Ion: 79 Resp: 807316
Ion Ratio Lower Upper
79 100
108 76.8 59.7 89.5
77 63.9 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.142 ng
RT: 7.875 min Scan# 848
Delta R.T. -0.041 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 45 Resp: 1077939
Ion Ratio Lower Upper
45 100
77 16.8 0.0 35.6
79 12.2 0.0 32.4



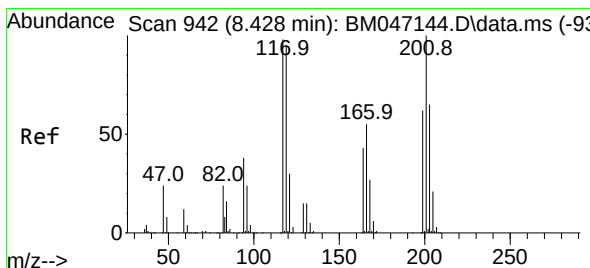
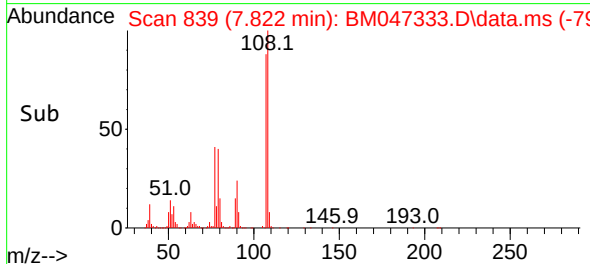
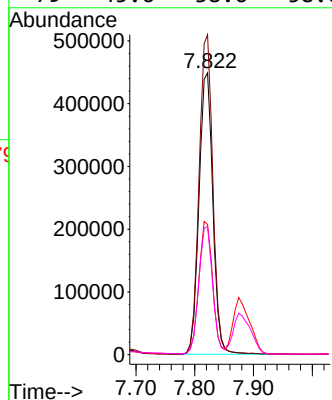
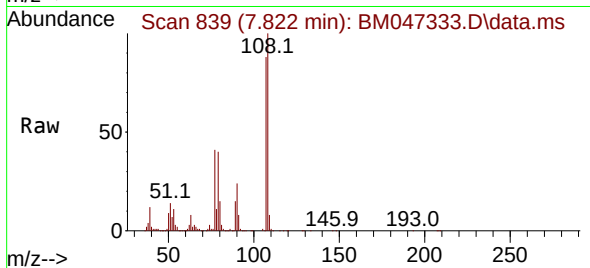


#17
2-Methylphenol
Concen: 42.689 ng
RT: 7.822 min Scan# 81
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:107 Resp: 732444

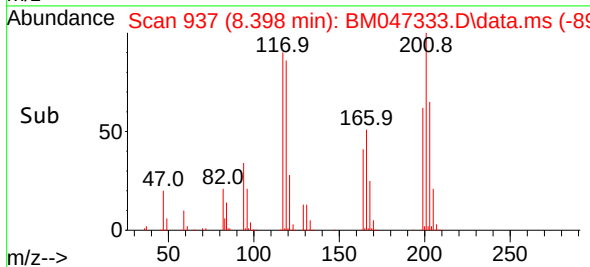
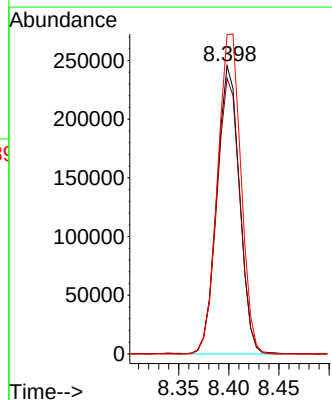
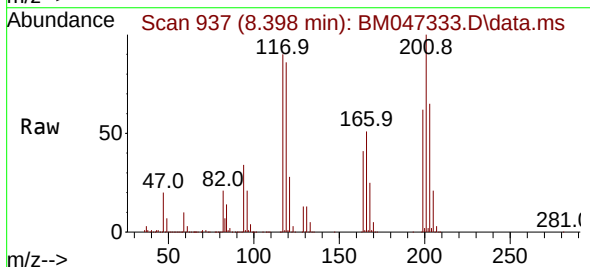
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.6	135.8
77	46.2	39.3	58.9
79	45.6	38.6	58.0

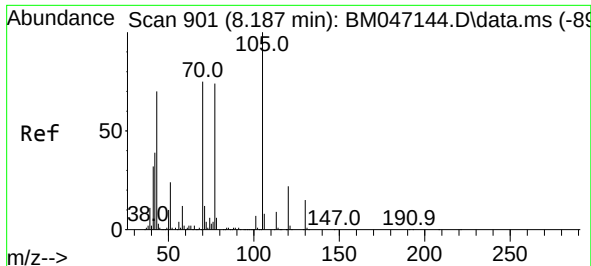


#18
Hexachloroethane
Concen: 40.715 ng
RT: 8.398 min Scan# 937
Delta R.T. -0.030 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:117 Resp: 387115

Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.0	115.4
201	110.8	81.3	121.9

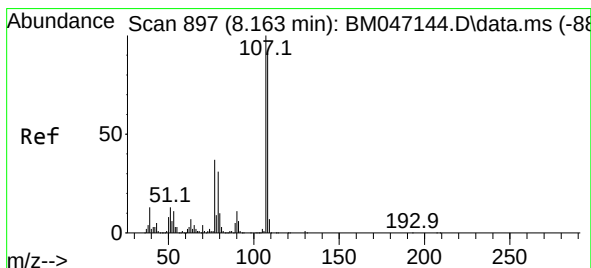
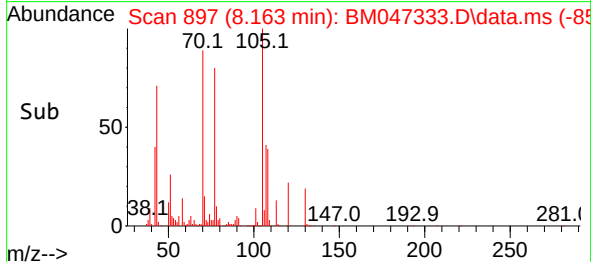
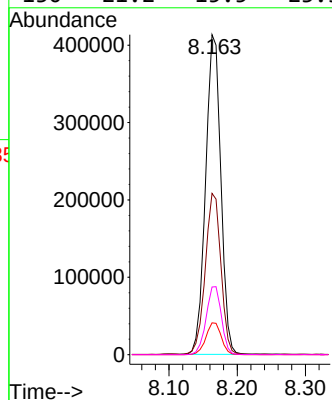
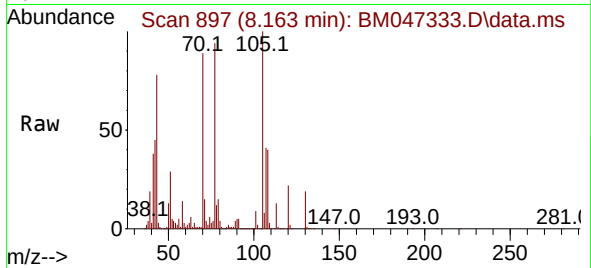




#19
n-Nitroso-di-n-propylamine
Concen: 36.977 ng
RT: 8.163 min Scan# 897
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

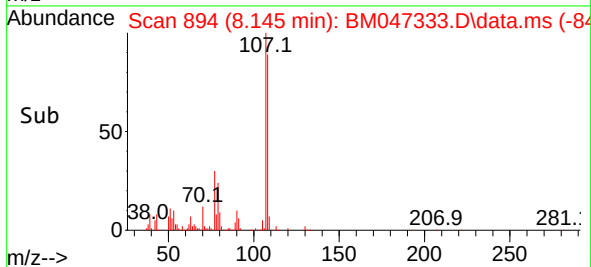
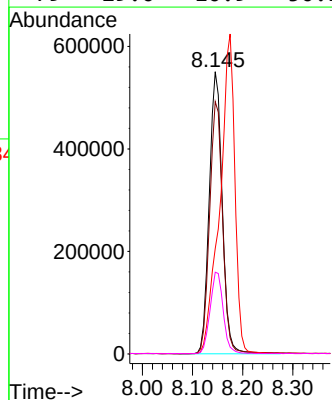
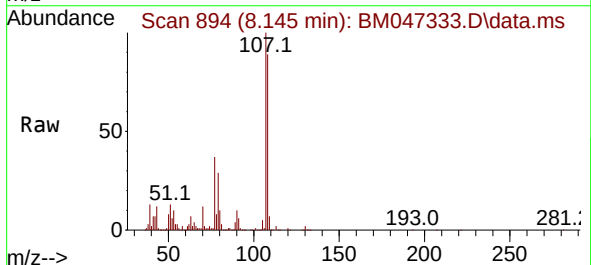
Instrument :
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ClientSampleId :
LIVONIA-SOILMS

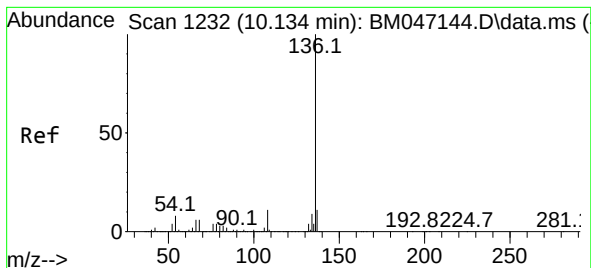
Tgt Ion: 70 Resp: 641953
Ion Ratio Lower Upper
70 100
42 50.4 42.0 63.0
101 10.0 7.2 10.8
130 21.2 15.5 23.3



#20
3+4-Methylphenols
Concen: 41.361 ng
RT: 8.145 min Scan# 894
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 107 Resp: 992118
Ion Ratio Lower Upper
107 100
108 89.4 70.7 110.7
77 37.4 17.4 57.4
79 29.0 10.9 50.9

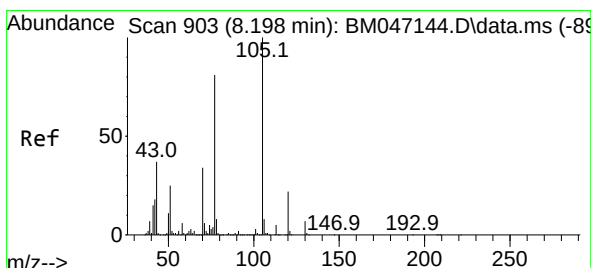
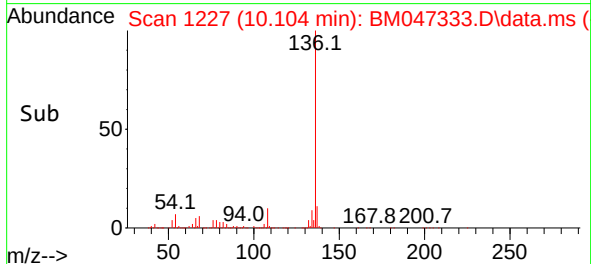
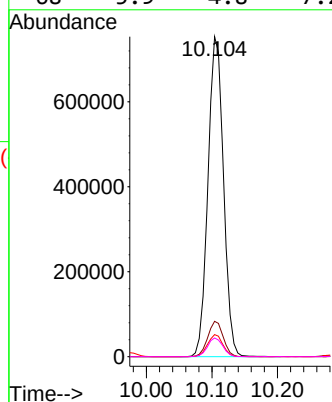
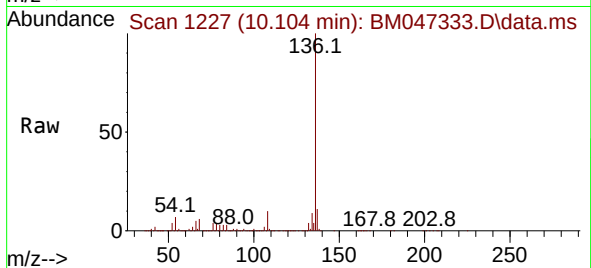




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.030 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

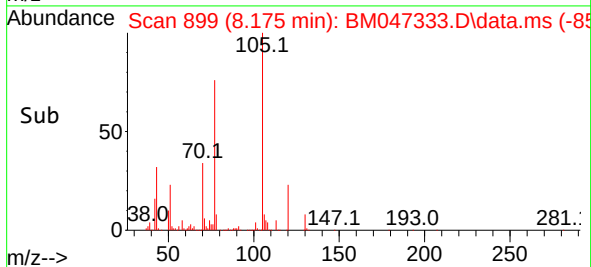
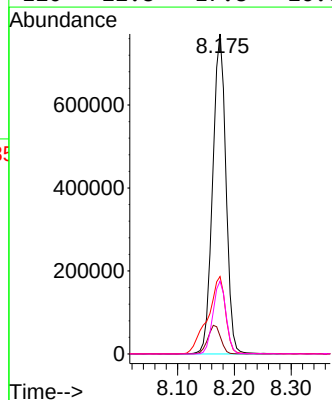
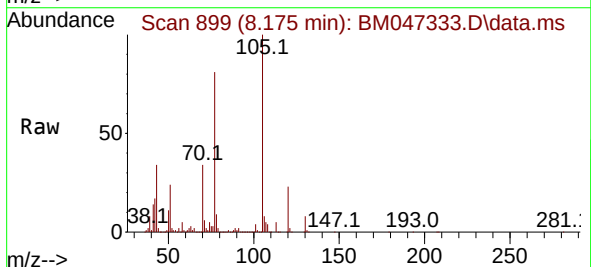
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BNA_M
ClientSampleId :
LIVONIA-SOILMS

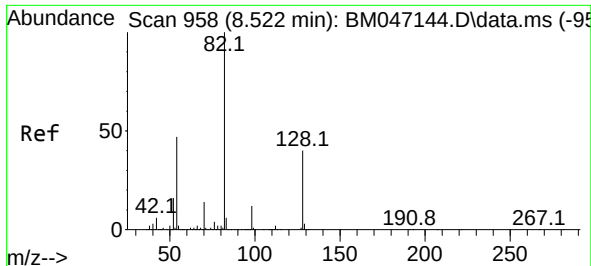
Tgt Ion:136 Resp: 1242968
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.9 6.0 9.0
68 5.9 4.8 7.2



#22
Acetophenone
Concen: 41.433 ng
RT: 8.175 min Scan# 899
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:105 Resp: 1243123
Ion Ratio Lower Upper
105 100
71 5.6 4.5 6.7
51 24.2 20.1 30.1
120 22.8 17.8 26.6

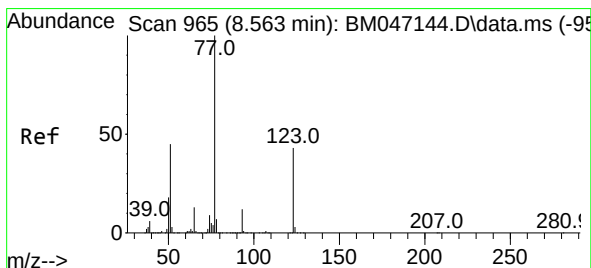
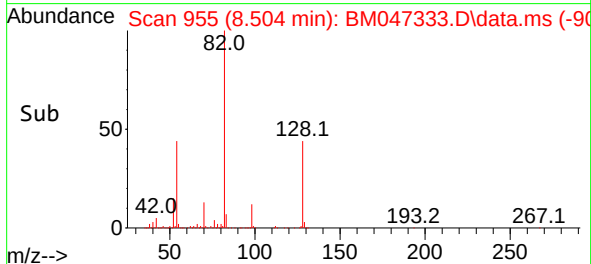
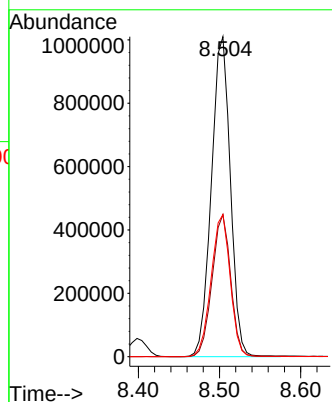
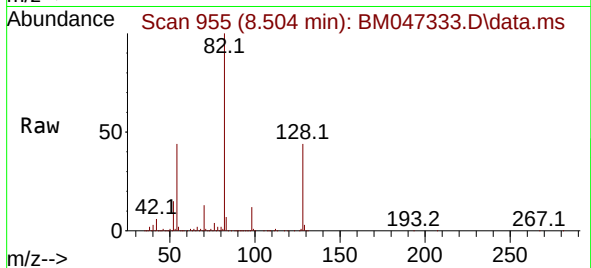




#23
Nitrobenzene-d5
Concen: 66.337 ng
RT: 8.504 min Scan# 91
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

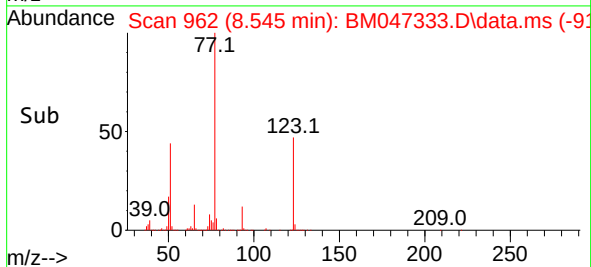
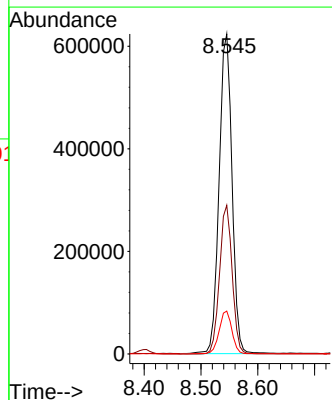
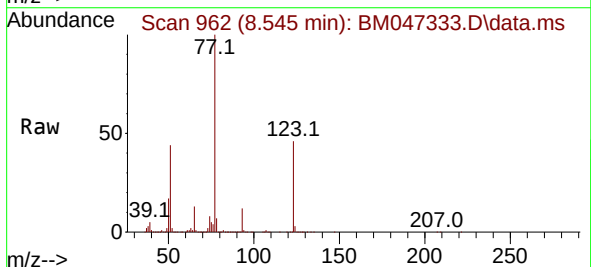
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

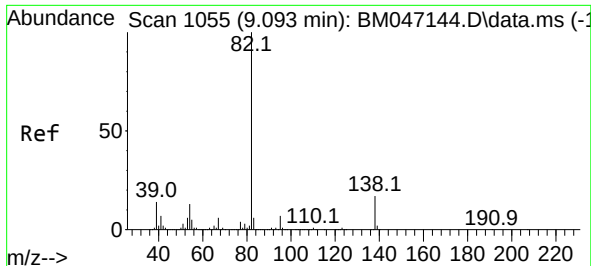
Tgt Ion: 82 Resp: 1637518
Ion Ratio Lower Upper
82 100
128 44.4 32.3 48.5
54 44.4 37.4 56.2



#24
Nitrobenzene
Concen: 39.561 ng
RT: 8.545 min Scan# 962
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 77 Resp: 983347
Ion Ratio Lower Upper
77 100
123 46.4 34.0 51.0
65 13.4 10.5 15.7

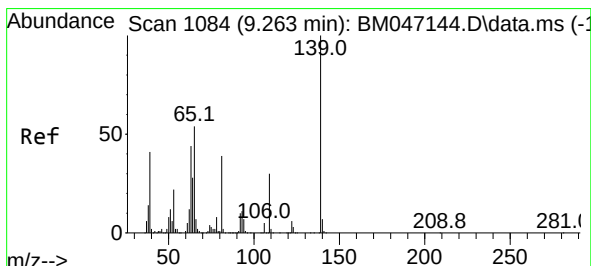
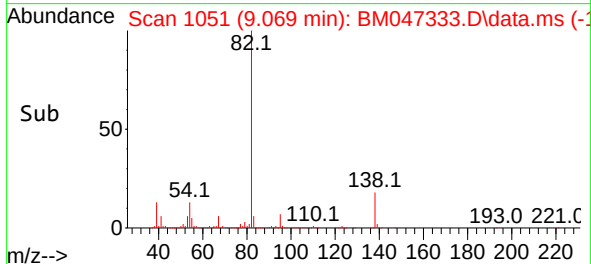
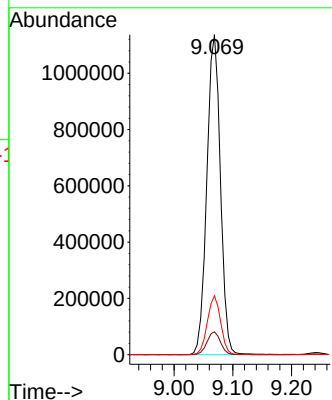
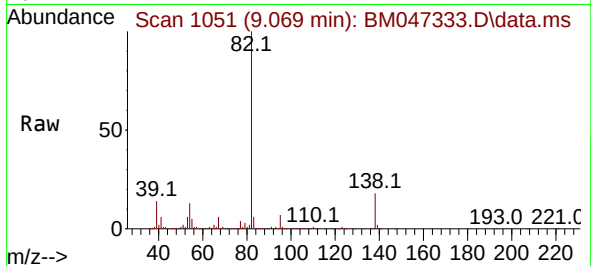




#25
Isophorone
Concen: 42.515 ng
RT: 9.069 min Scan# 1051
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

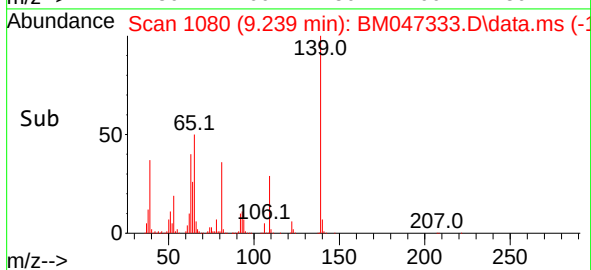
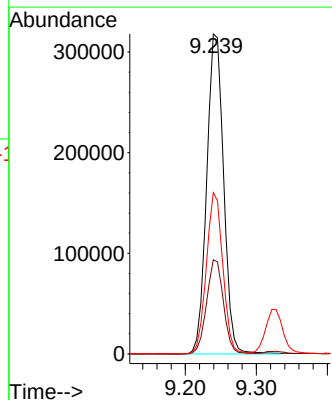
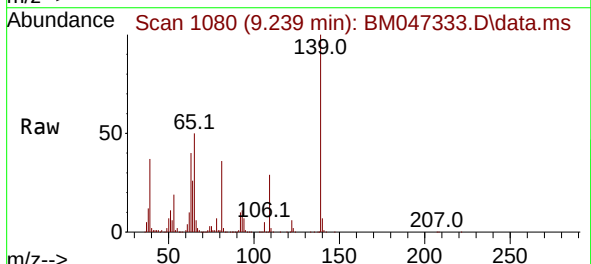
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

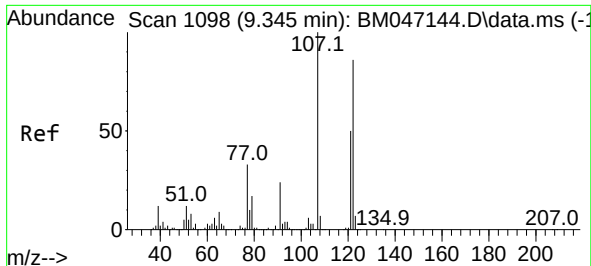
Tgt Ion: 82 Resp: 1827320
Ion Ratio Lower Upper
82 100
95 7.1 5.5 8.3
138 18.4 13.5 20.3



#26
2-Nitrophenol
Concen: 47.988 ng
RT: 9.239 min Scan# 1080
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:139 Resp: 528248
Ion Ratio Lower Upper
139 100
109 29.5 24.4 36.6
65 50.4 43.0 64.6

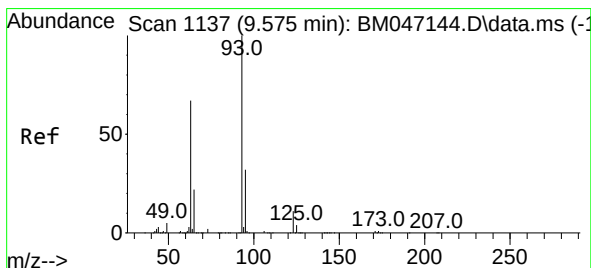
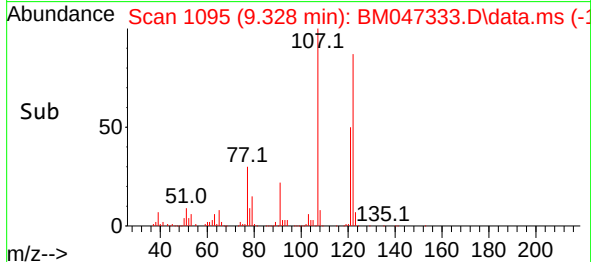
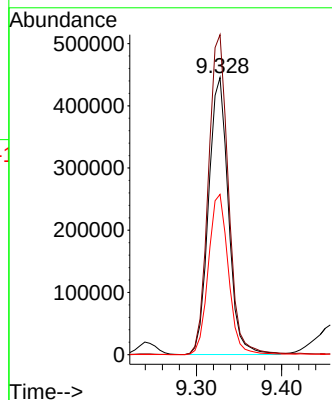
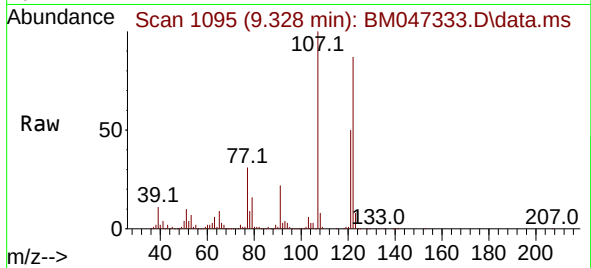




#27
2,4-Dimethylphenol
Concen: 55.770 ng
RT: 9.328 min Scan# 1095
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

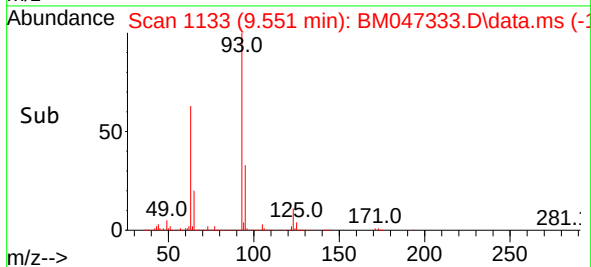
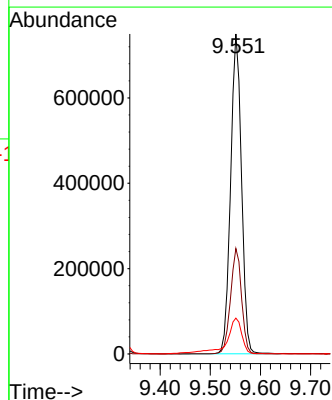
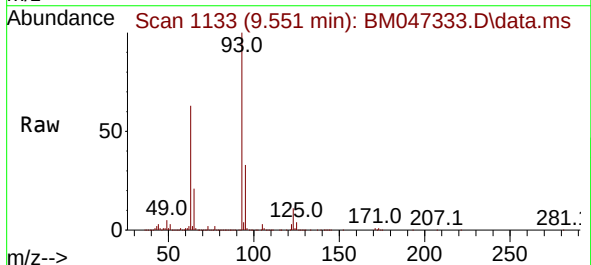
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

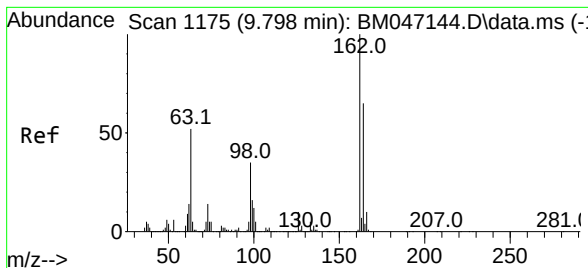
Tgt Ion:122 Resp: 719133
Ion Ratio Lower Upper
122 100
107 115.4 92.8 139.2
121 57.8 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 41.788 ng
RT: 9.551 min Scan# 1133
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 93 Resp: 1130142
Ion Ratio Lower Upper
93 100
95 32.9 25.8 38.8
123 11.2 9.0 13.4





#29

2,4-Dichlorophenol

Concen: 49.581 ng

RT: 9.781 min Scan# 1172

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

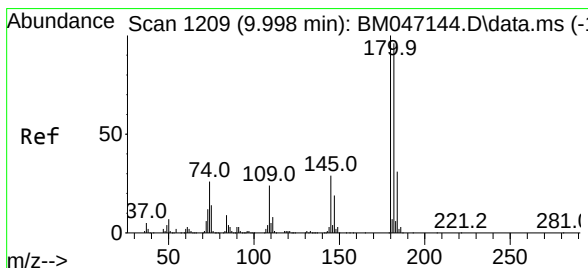
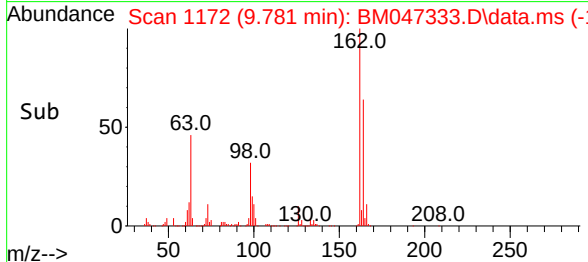
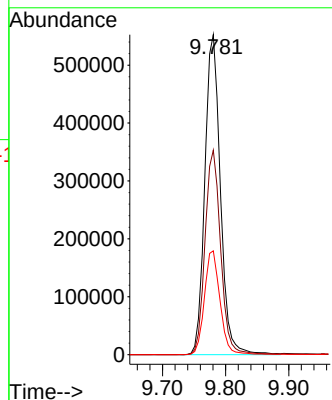
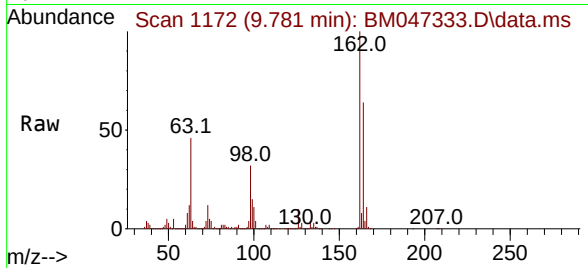
Tgt Ion:162 Resp: 948617

Ion Ratio Lower Upper

162 100

164 63.9 44.7 84.7

98 32.5 14.9 54.9



#30

1,2,4-Trichlorobenzene

Concen: 45.143 ng

RT: 9.975 min Scan# 1205

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

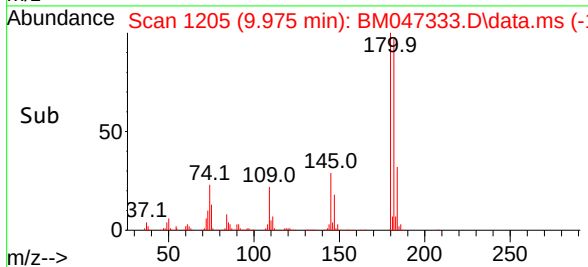
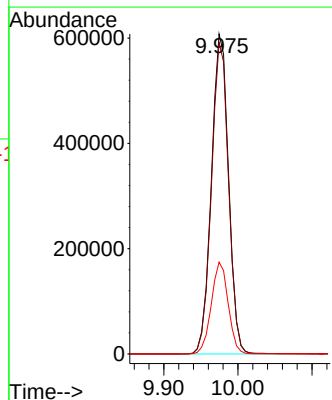
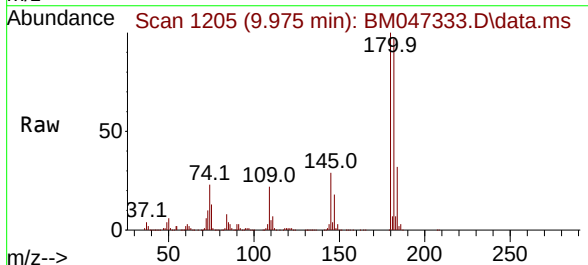
Tgt Ion:180 Resp: 977441

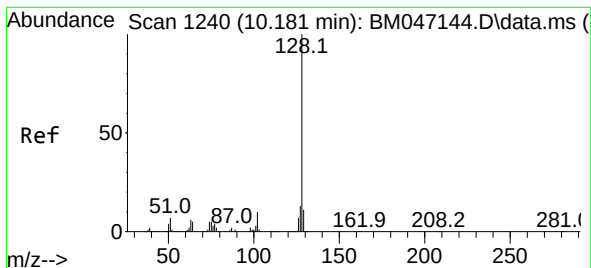
Ion Ratio Lower Upper

180 100

182 97.3 76.6 115.0

145 28.7 23.4 35.2

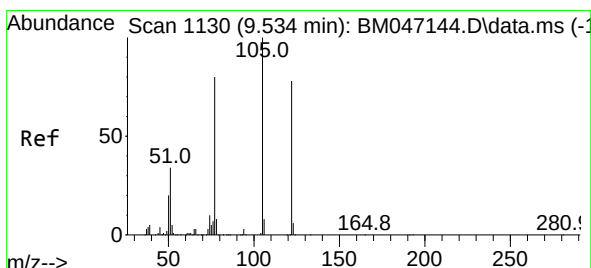
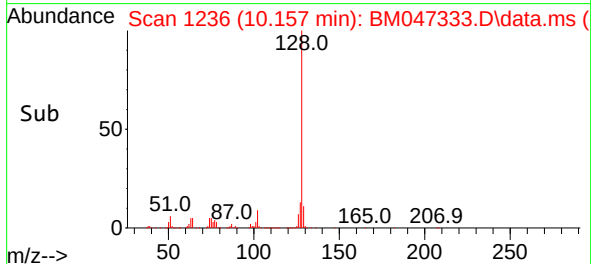
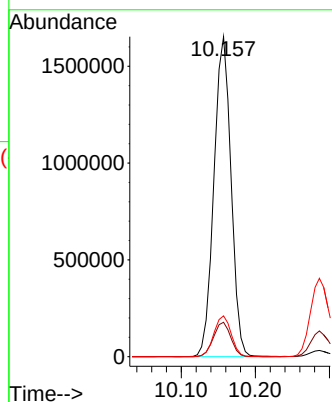
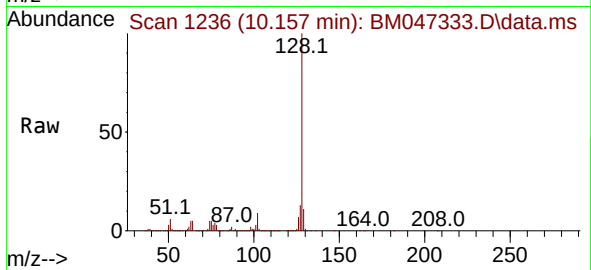




#31
Naphthalene
Concen: 42.751 ng
RT: 10.157 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

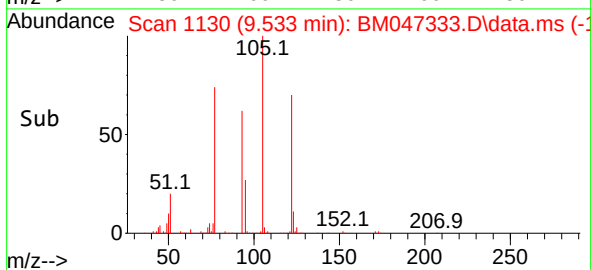
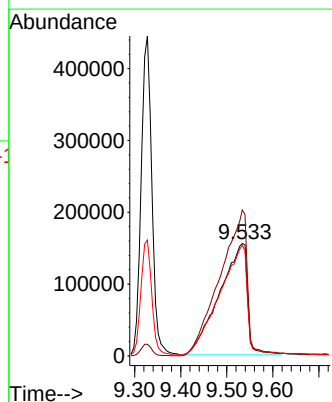
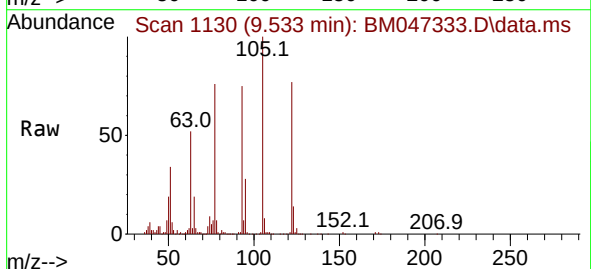
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

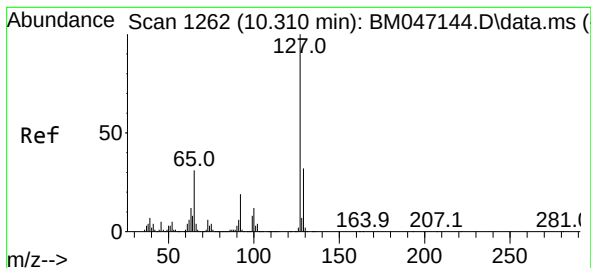
Tgt Ion:128 Resp: 2647170
Ion Ratio Lower Upper
128 100
129 10.7 8.6 13.0
127 12.7 10.2 15.4



#32
Benzoic acid
Concen: 43.753 ng
RT: 9.533 min Scan# 1130
Delta R.T. -0.000 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:122 Resp: 655466
Ion Ratio Lower Upper
122 100
105 129.7 107.1 147.1
77 98.4 82.1 122.1





#33

4-Chloroaniline

Concen: 32.457 ng

RT: 10.286 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion:127 Resp: 772862

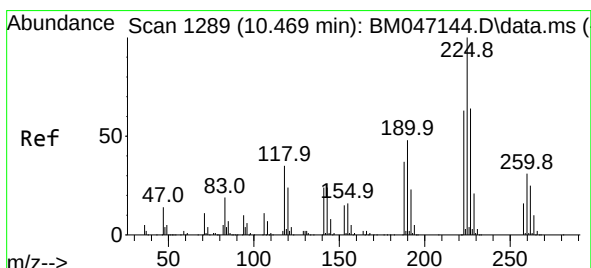
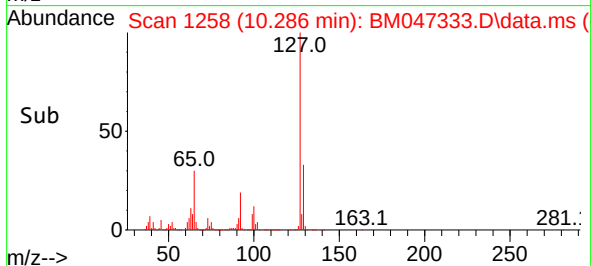
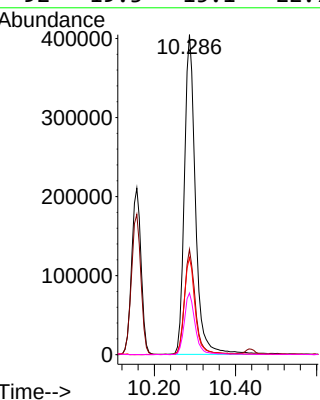
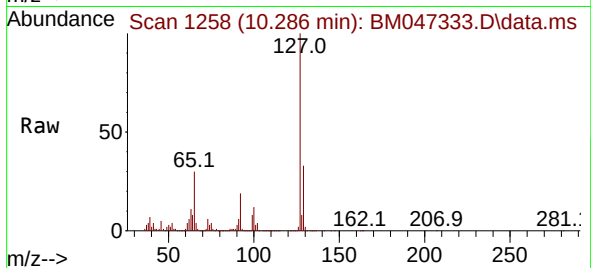
Ion Ratio Lower Upper

127 100

129 32.9 25.8 38.8

65 30.3 24.9 37.3

92 19.3 15.1 22.7



#34

Hexachlorobutadiene

Concen: 49.767 ng

RT: 10.439 min Scan# 1284

Delta R.T. -0.030 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

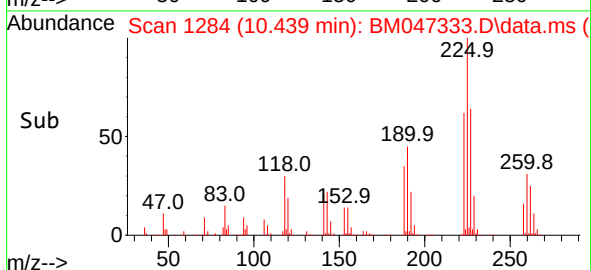
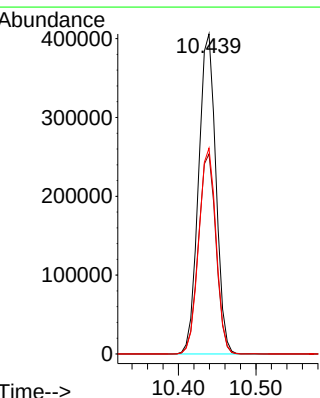
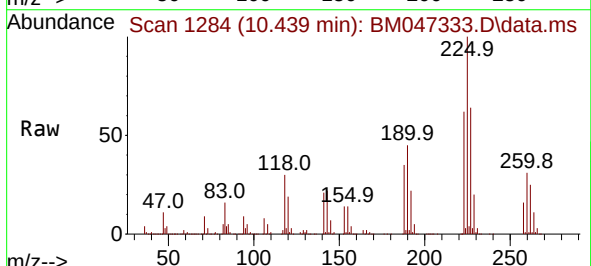
Tgt Ion:225 Resp: 630701

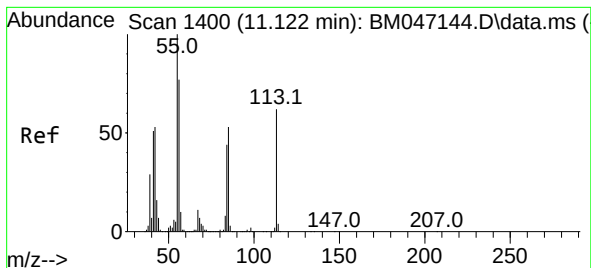
Ion Ratio Lower Upper

225 100

223 62.5 50.2 75.2

227 64.3 51.4 77.0

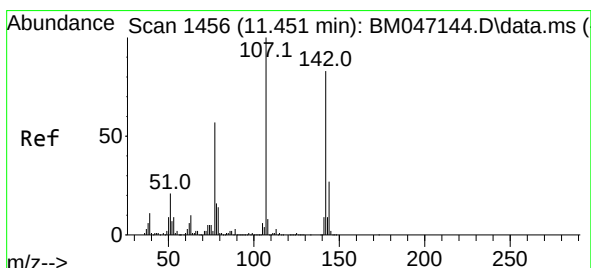
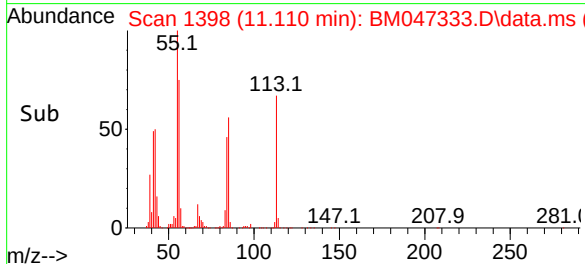
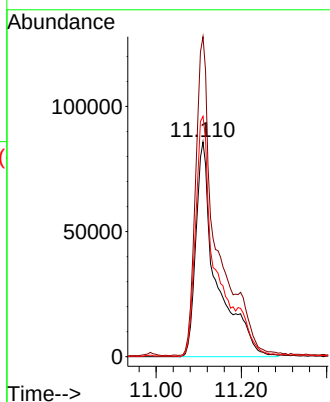
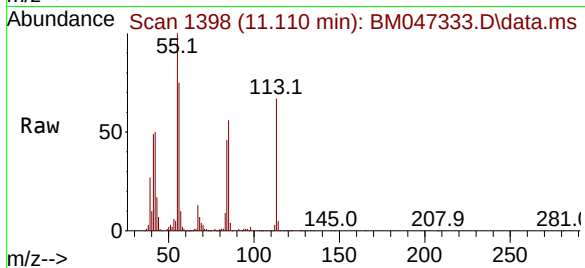




#35
Caprolactam
Concen: 43.492 ng
RT: 11.110 min Scan# 1110
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

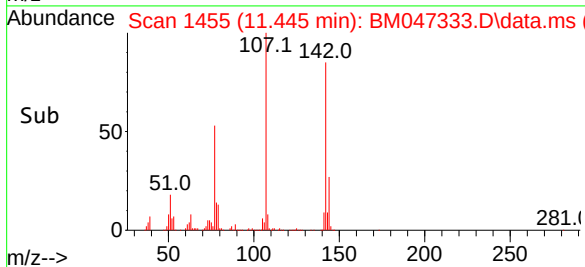
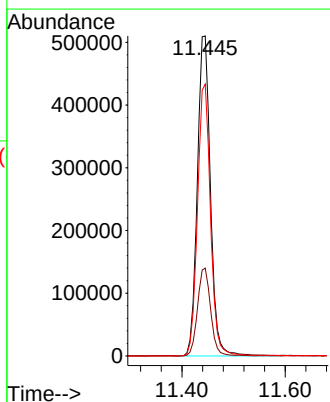
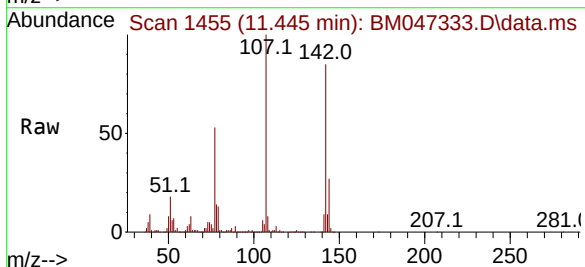
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

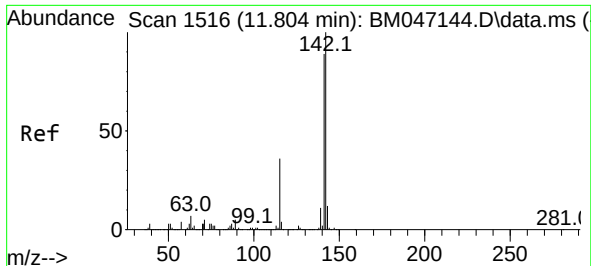
Tgt Ion:113 Resp: 288977
Ion Ratio Lower Upper
113 100
55 149.1 140.5 180.5
56 111.9 103.6 143.6



#36
4-Chloro-3-methylphenol
Concen: 44.212 ng
RT: 11.445 min Scan# 1455
Delta R.T. -0.006 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:107 Resp: 900875
Ion Ratio Lower Upper
107 100
144 27.4 21.8 32.6
142 84.9 66.8 100.2

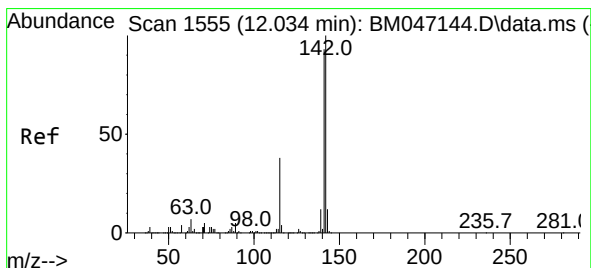
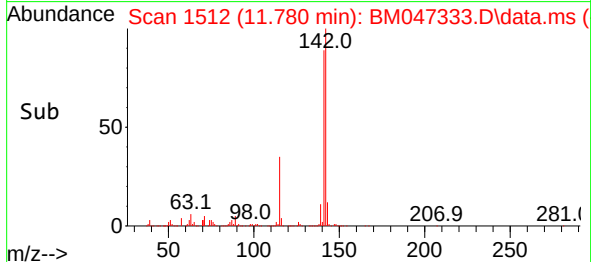
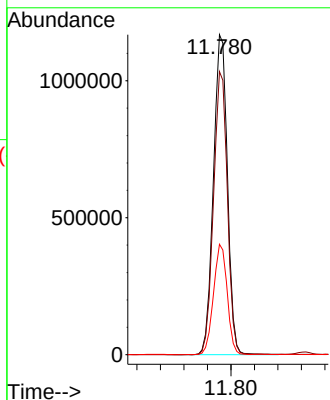
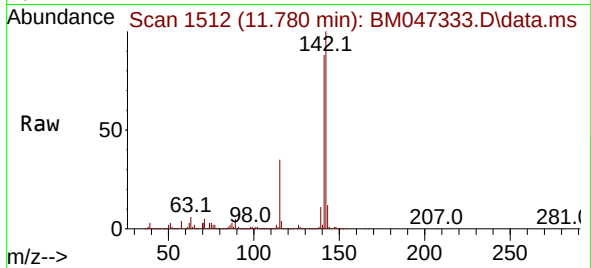




#37
2-Methylnaphthalene
Concen: 43.757 ng
RT: 11.780 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

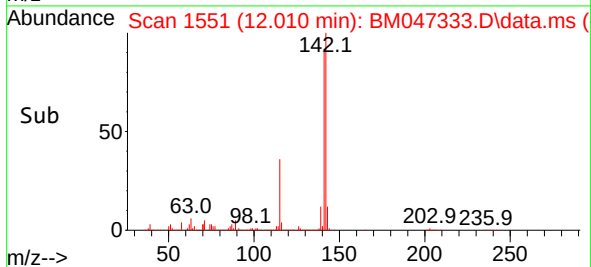
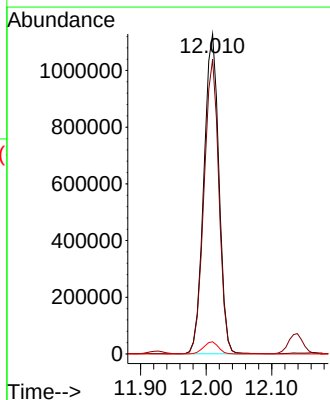
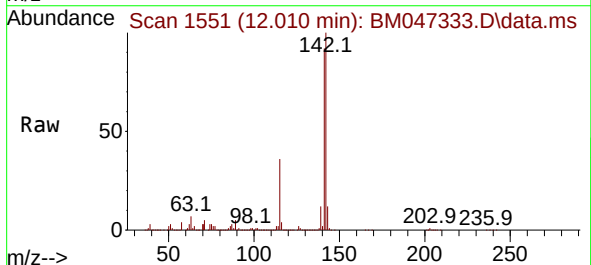
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

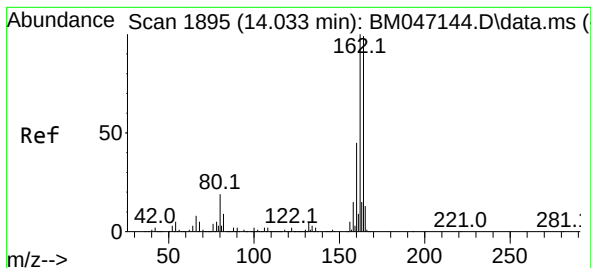
Tgt Ion:142 Resp: 1929124
Ion Ratio Lower Upper
142 100
141 88.5 70.9 106.3
115 34.5 28.7 43.1



#38
1-Methylnaphthalene
Concen: 41.334 ng
RT: 12.010 min Scan# 1551
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:142 Resp: 1800976
Ion Ratio Lower Upper
142 100
141 92.1 74.6 111.8
116 3.8 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.010 min Scan# 11

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

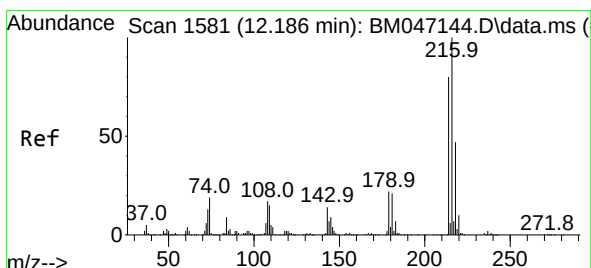
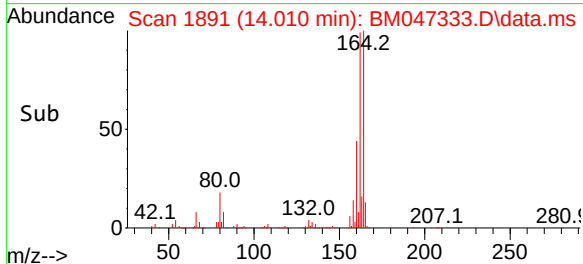
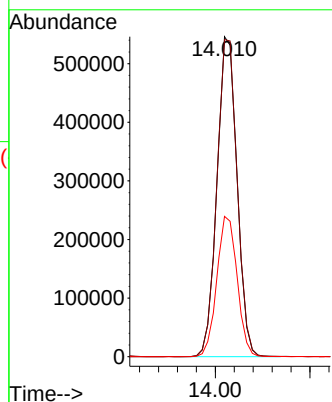
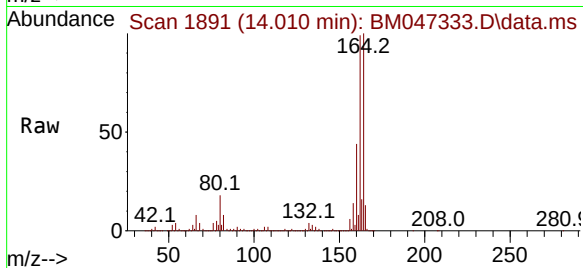
Tgt Ion:164 Resp: 804051

Ion Ratio Lower Upper

164 100

162 99.1 80.7 121.1

160 43.8 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 49.777 ng

RT: 12.163 min Scan# 1577

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Tgt Ion:216 Resp: 1091660

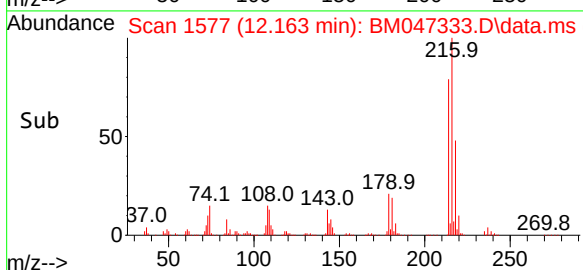
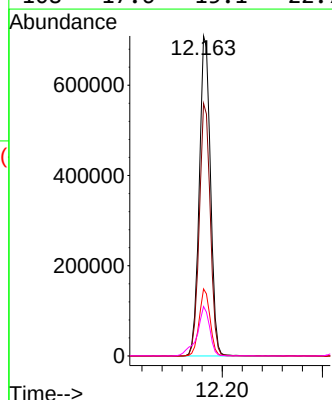
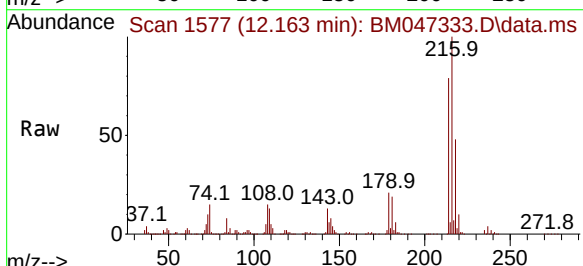
Ion Ratio Lower Upper

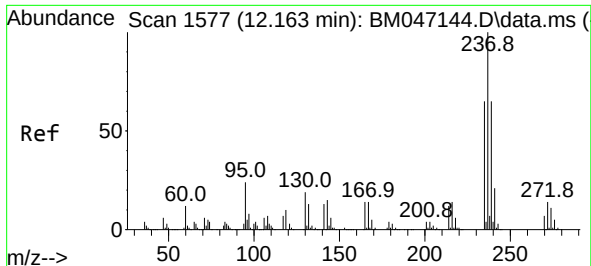
216 100

214 78.0 63.4 95.2

179 20.5 17.6 26.4

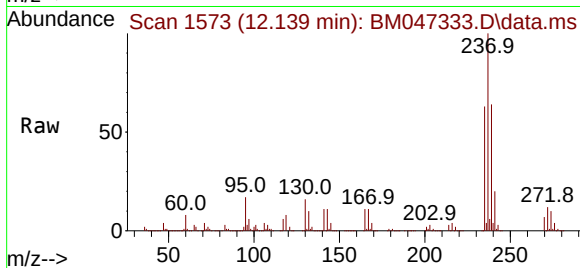
108 17.6 15.1 22.7



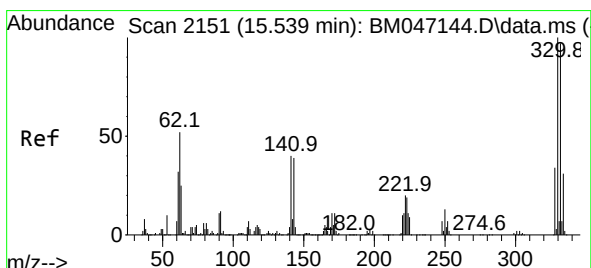
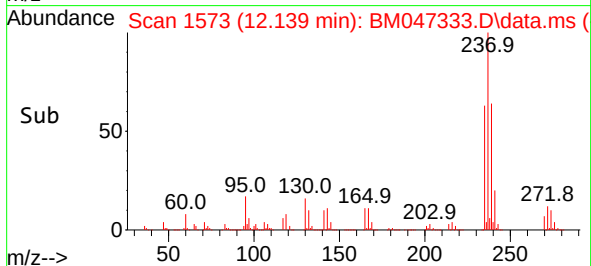
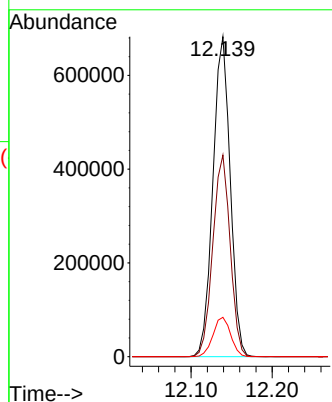


#41
Hexachlorocyclopentadiene
Concen: 131.802 ng
RT: 12.139 min Scan# 1
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

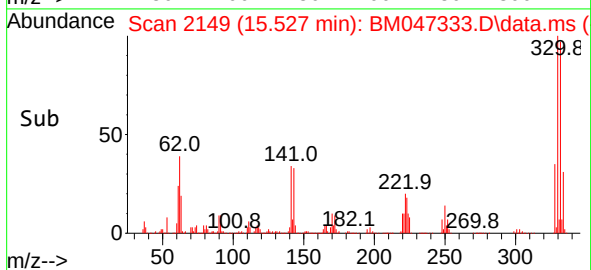
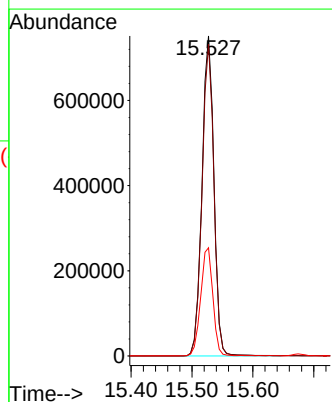
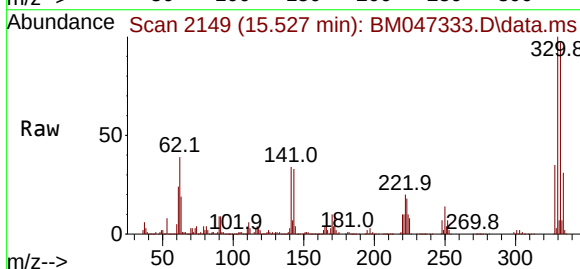


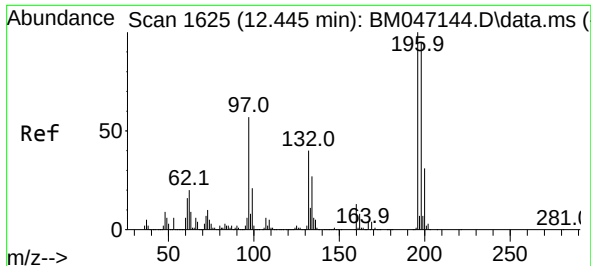
Tgt Ion:237 Resp: 1009336
Ion Ratio Lower Upper
237 100
235 63.0 44.8 84.8
272 12.3 0.0 33.5



#42
2,4,6-Tribromophenol
Concen: 109.945 ng
RT: 15.527 min Scan# 2149
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:330 Resp: 1025027
Ion Ratio Lower Upper
330 100
332 97.0 77.4 116.2
141 34.4 31.6 47.4

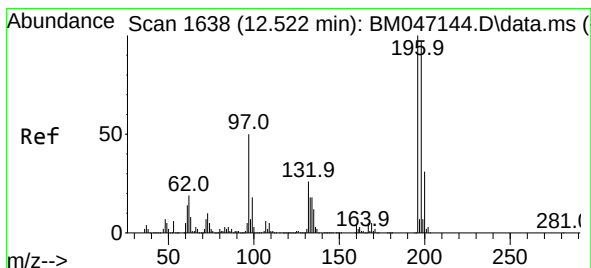
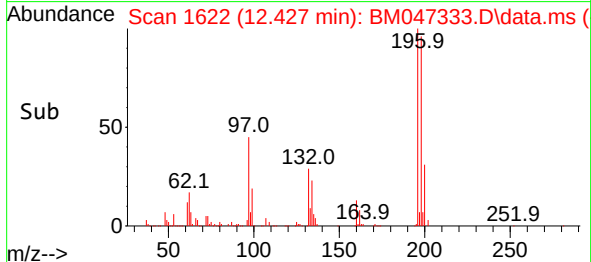
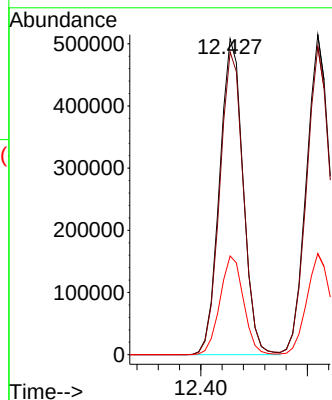
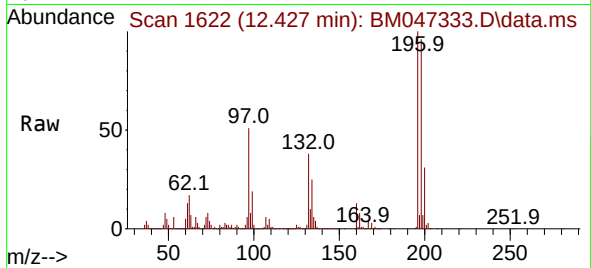




#43
2,4,6-Trichlorophenol
Concen: 49.859 ng
RT: 12.427 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

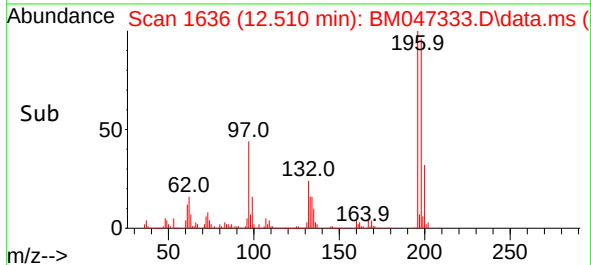
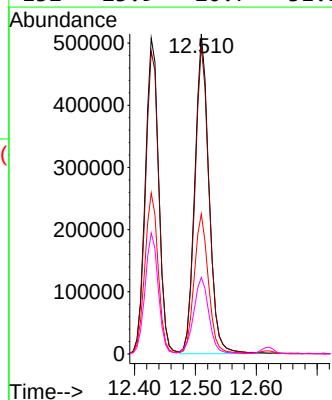
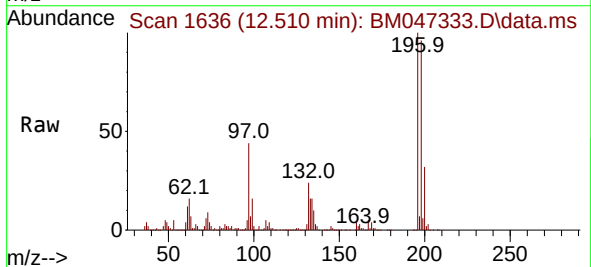
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

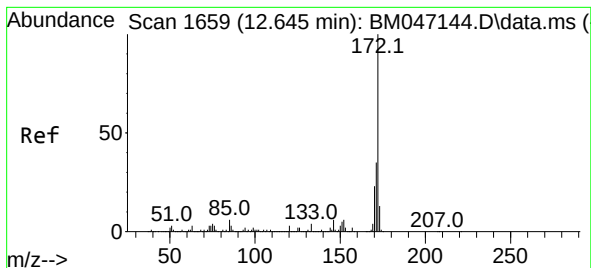
Tgt Ion:196 Resp: 777198
Ion Ratio Lower Upper
196 100
198 95.9 75.6 113.4
200 31.3 24.6 37.0



#44
2,4,5-Trichlorophenol
Concen: 47.943 ng
RT: 12.510 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:196 Resp: 829763
Ion Ratio Lower Upper
196 100
198 96.3 77.7 116.5
97 43.8 39.8 59.8
132 23.9 20.7 31.1

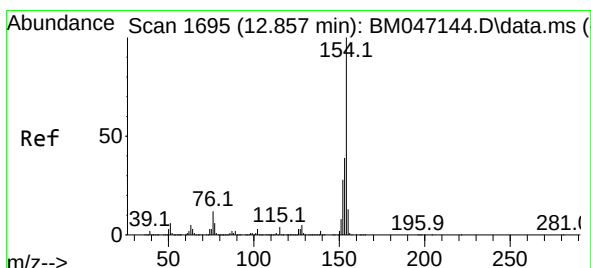
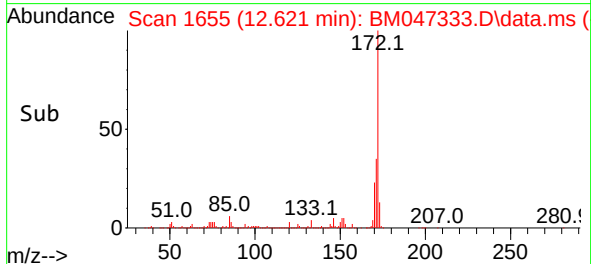
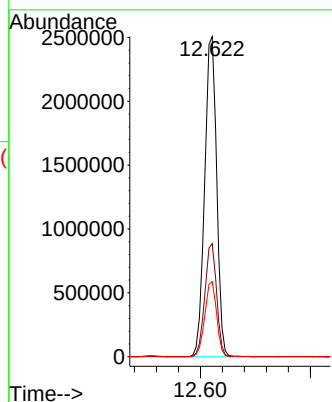
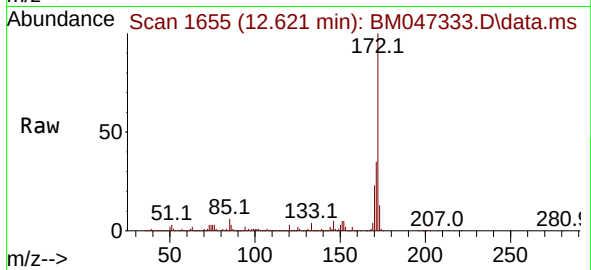




#45
2-Fluorobiphenyl
Concen: 72.716 ng
RT: 12.621 min Scan# 1655
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

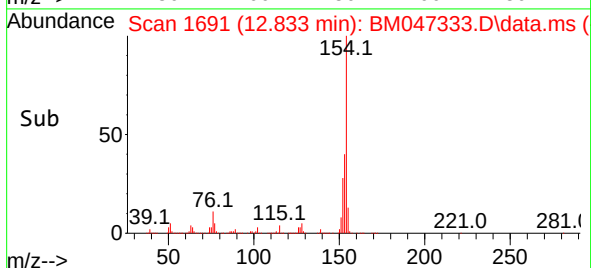
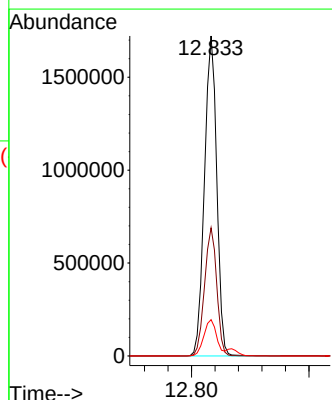
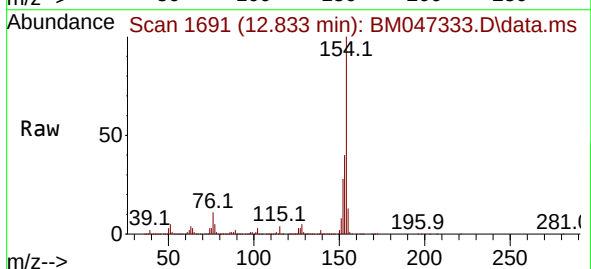
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

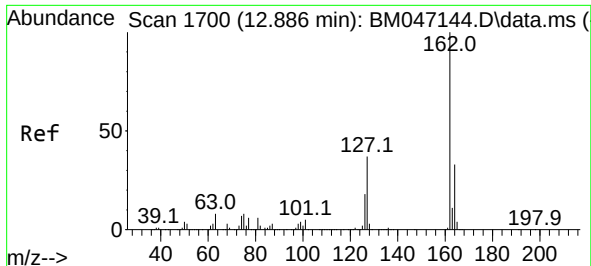
Tgt Ion:172 Resp: 3790343
Ion Ratio Lower Upper
172 100
171 35.4 27.8 41.6
170 23.5 18.7 28.1



#46
1,1'-Biphenyl
Concen: 43.572 ng
RT: 12.833 min Scan# 1691
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:154 Resp: 2494121
Ion Ratio Lower Upper
154 100
153 40.0 19.0 59.0
76 11.3 0.0 31.9

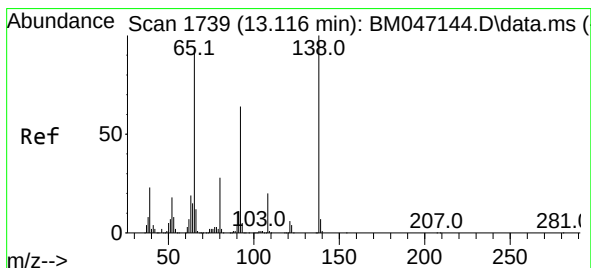
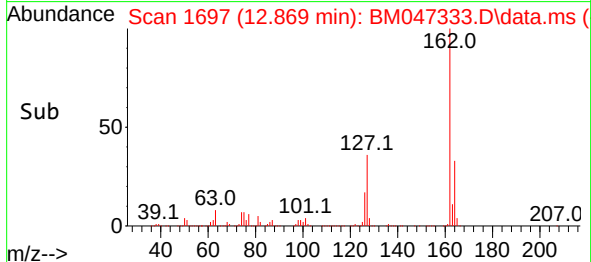
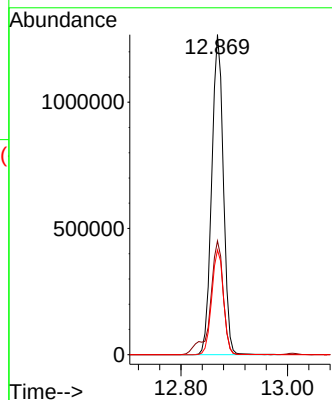
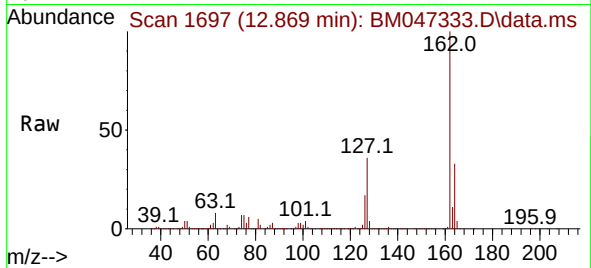




#47
2-Chloronaphthalene
Concen: 43.063 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

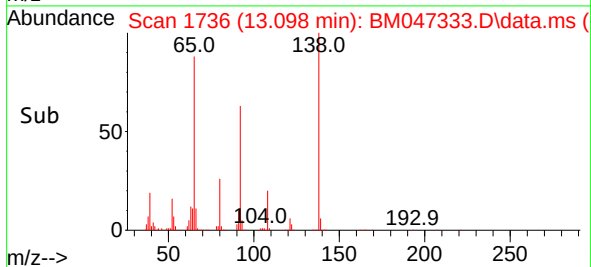
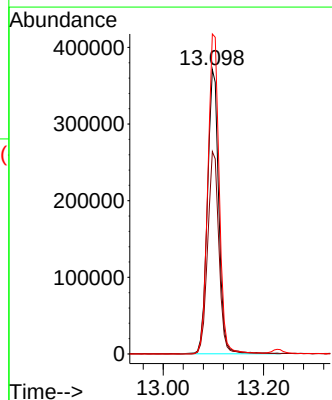
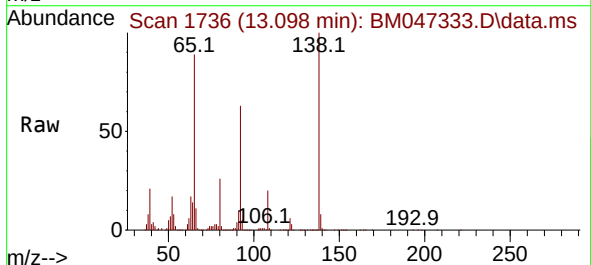
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

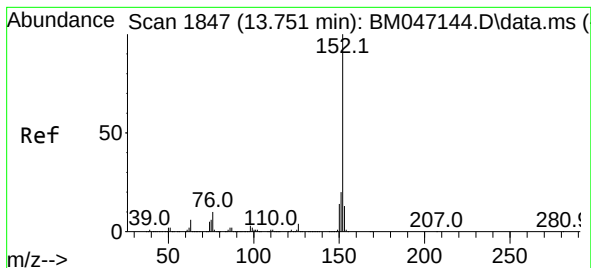
Tgt Ion:162 Resp: 1926647
Ion Ratio Lower Upper
162 100
127 35.5 30.0 45.0
164 32.7 26.3 39.5



#48
2-Nitroaniline
Concen: 41.549 ng
RT: 13.098 min Scan# 1736
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion: 65 Resp: 582371
Ion Ratio Lower Upper
65 100
92 71.2 55.1 82.7
138 112.5 85.9 128.9





#49

Acenaphthylene

Concen: 46.741 ng

RT: 13.727 min Scan# 1843

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

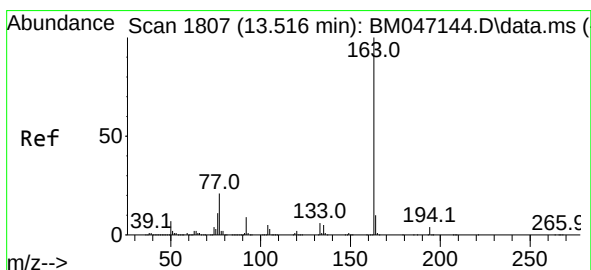
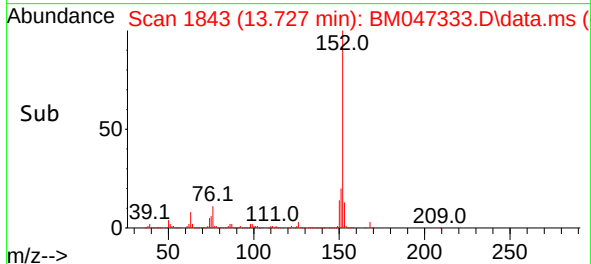
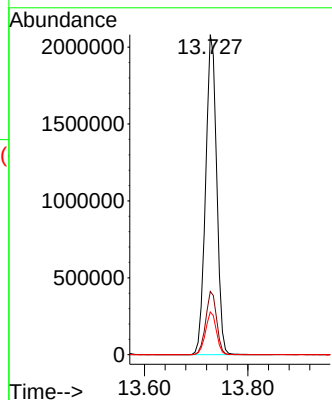
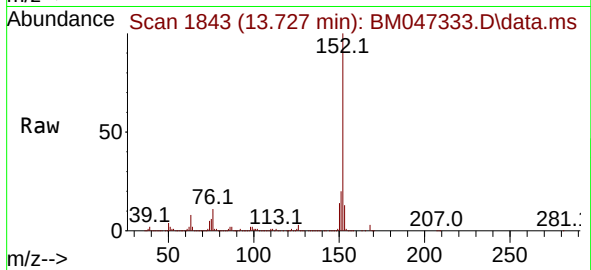
Tgt Ion:152 Resp: 3082520

Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 13.3 10.4 15.6



#50

Dimethylphthalate

Concen: 44.566 ng

RT: 13.498 min Scan# 1804

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

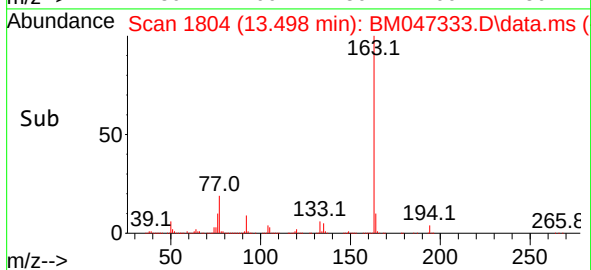
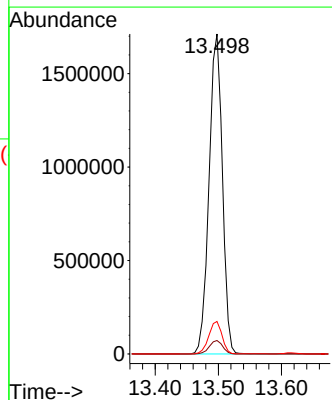
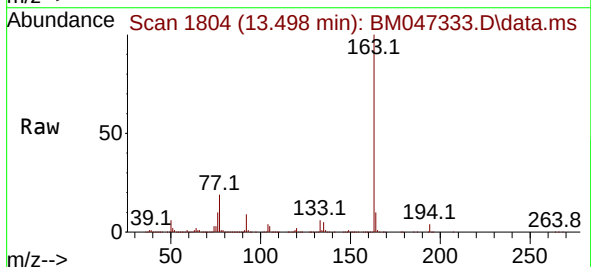
Tgt Ion:163 Resp: 2502624

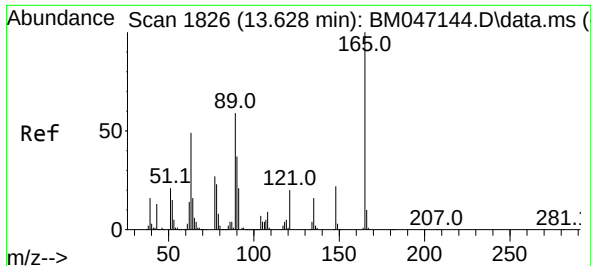
Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

164 10.1 8.0 12.0

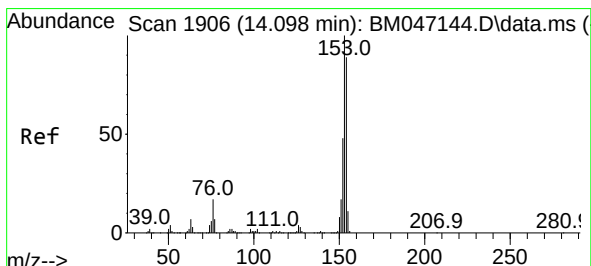
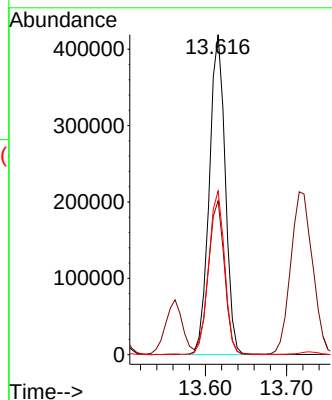
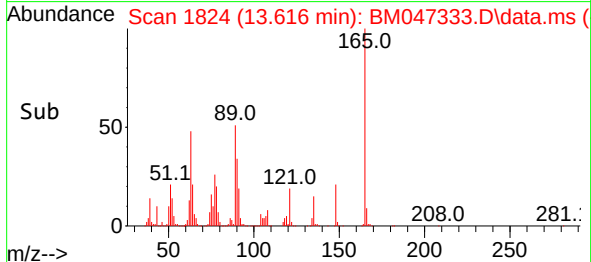
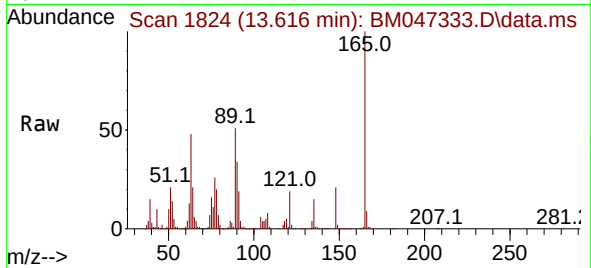




#51
2,6-Dinitrotoluene
Concen: 43.403 ng
RT: 13.616 min Scan# 1824
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

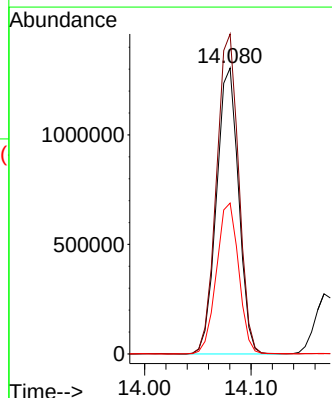
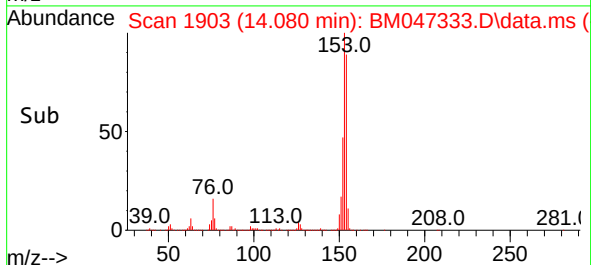
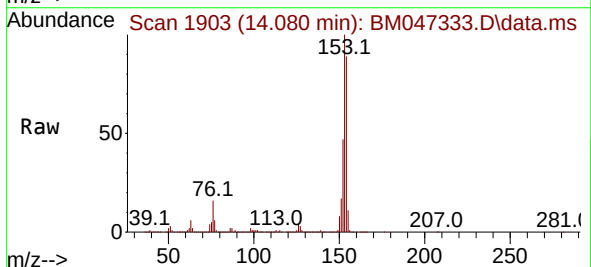
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

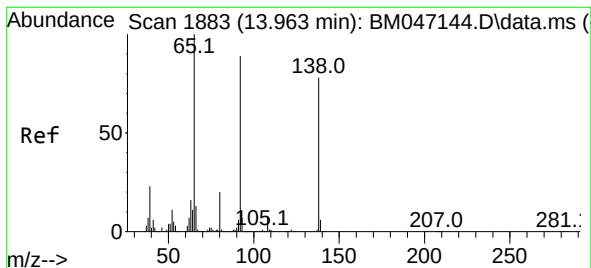
Tgt Ion:165 Resp: 569753
Ion Ratio Lower Upper
165 100
63 48.1 46.5 69.7
89 51.2 47.3 70.9



#52
Acenaphthene
Concen: 44.886 ng
RT: 14.080 min Scan# 1903
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:154 Resp: 1877721
Ion Ratio Lower Upper
154 100
153 111.9 90.3 135.5
152 52.8 42.9 64.3

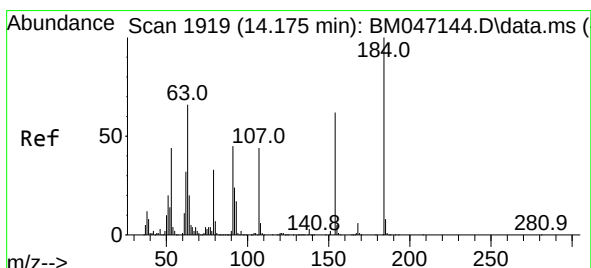
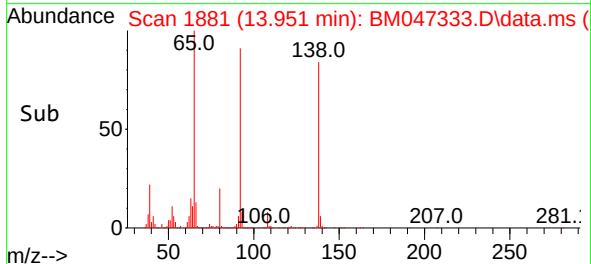
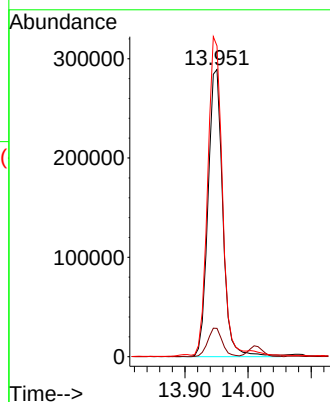
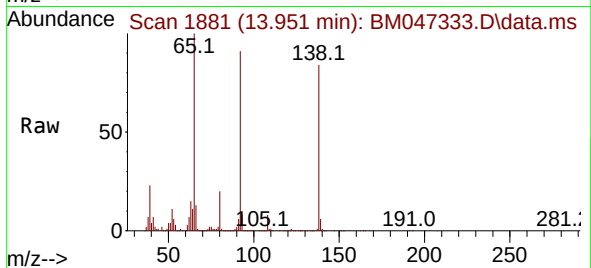




#53
3-Nitroaniline
Concen: 35.692 ng
RT: 13.951 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

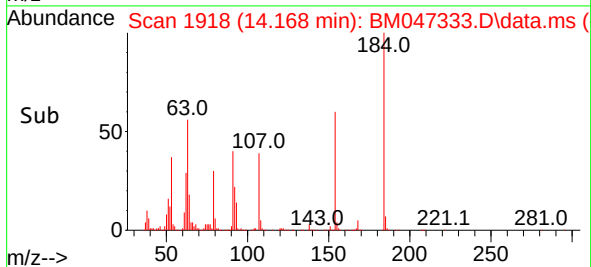
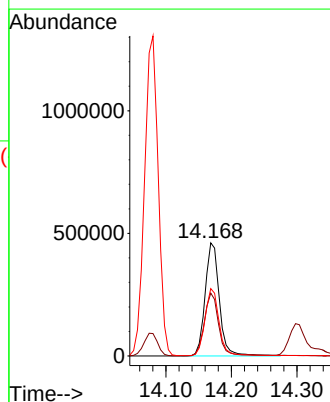
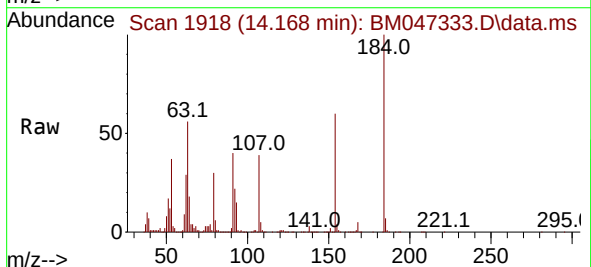
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

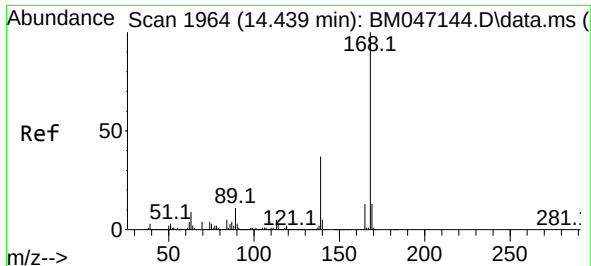
Tgt Ion:138 Resp: 469486
Ion Ratio Lower Upper
138 100
108 9.9 7.9 11.9
92 108.2 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 88.910 ng
RT: 14.168 min Scan# 1918
Delta R.T. -0.007 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:184 Resp: 699513
Ion Ratio Lower Upper
184 100
63 55.7 52.7 79.1
154 59.5 50.4 75.6

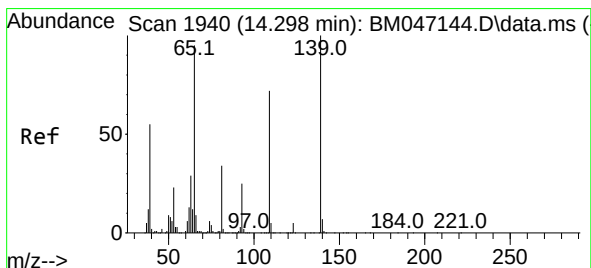
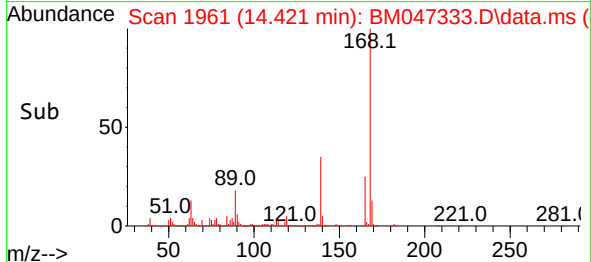
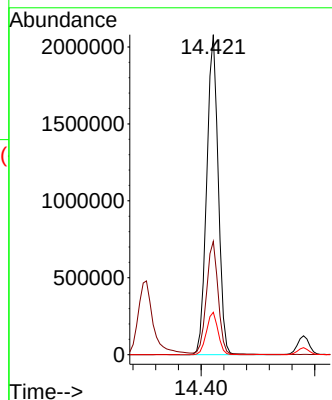
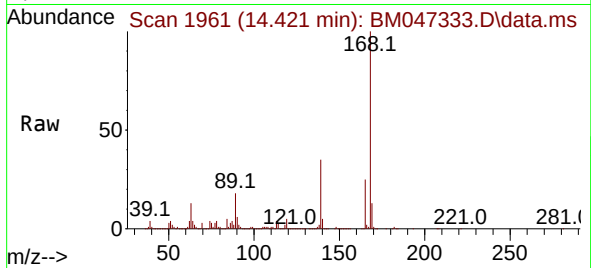




#55
Dibenzenofuran
Concen: 43.987 ng
RT: 14.421 min Scan# 1964
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

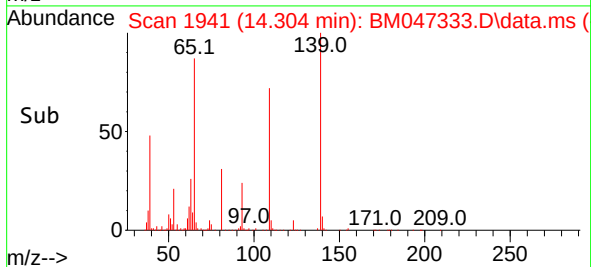
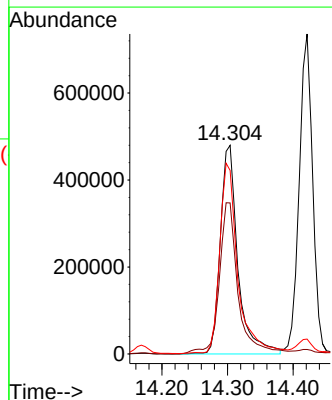
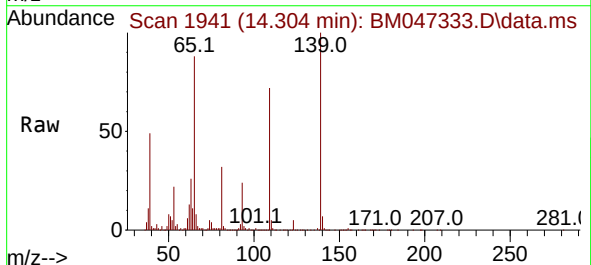
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

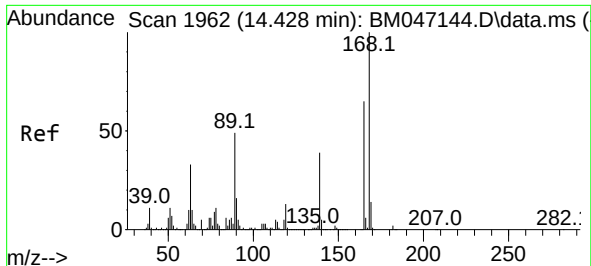
Tgt Ion:168 Resp: 2906543
Ion Ratio Lower Upper
168 100
139 35.4 29.6 44.4
169 13.3 10.7 16.1



#56
4-Nitrophenol
Concen: 78.617 ng
RT: 14.304 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:139 Resp: 891722
Ion Ratio Lower Upper
139 100
109 72.4 52.5 92.5
65 88.0 75.4 115.4

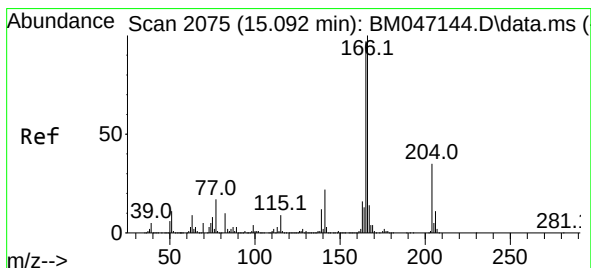
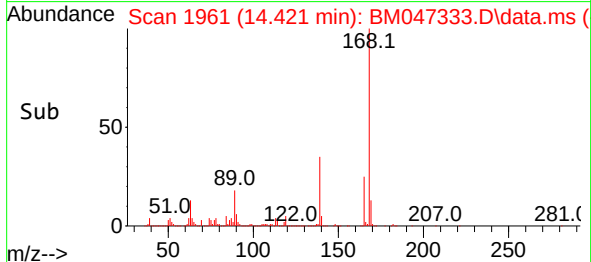
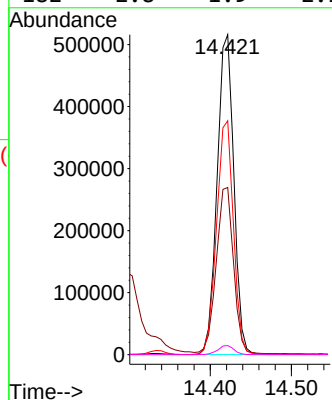
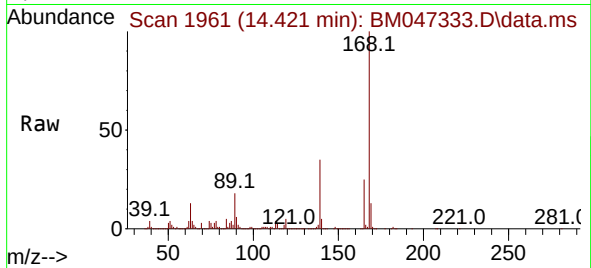




#57
2,4-Dinitrotoluene
Concen: 42.198 ng
RT: 14.421 min Scan# 1961
Delta R.T. -0.006 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

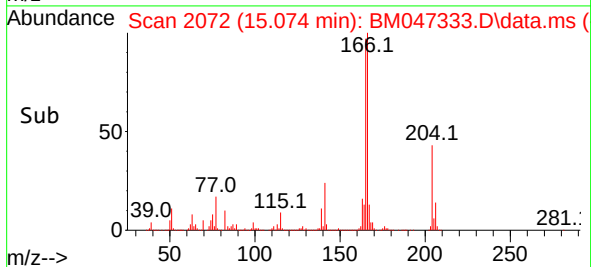
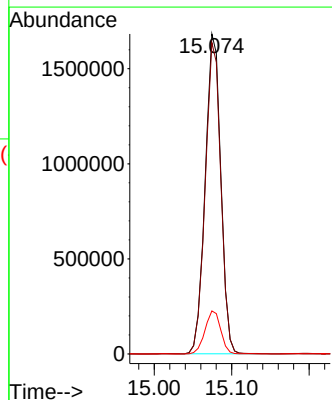
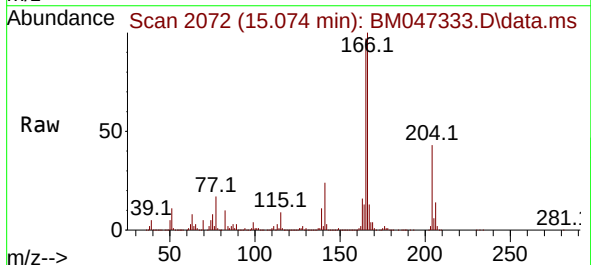
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

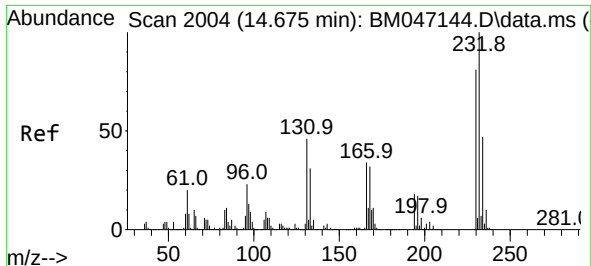
Tgt Ion:165 Resp: 739377
Ion Ratio Lower Upper
165 100
63 52.2 40.3 60.5
89 73.1 61.0 91.6
182 2.8 1.9 2.9



#58
Fluorene
Concen: 43.114 ng
RT: 15.074 min Scan# 2072
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:166 Resp: 2350607
Ion Ratio Lower Upper
166 100
165 97.3 77.4 116.0
167 13.5 11.0 16.6

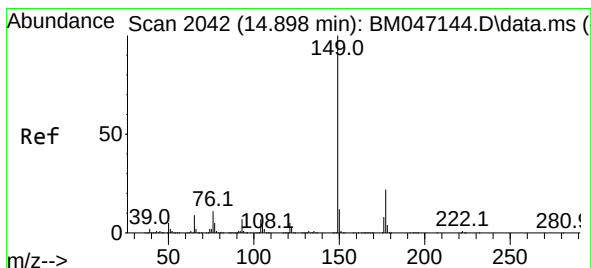
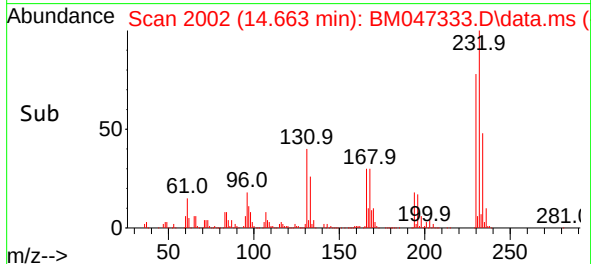
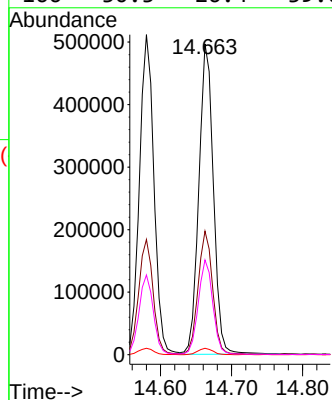
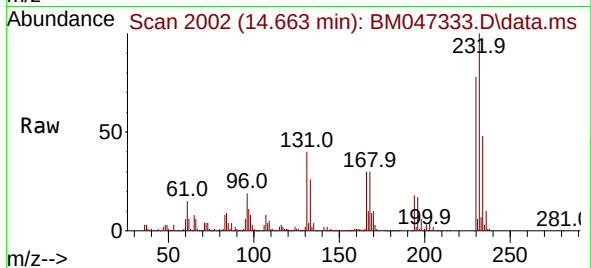




#59
2,3,4,6-Tetrachlorophenol
Concen: 49.883 ng
RT: 14.663 min Scan# 2002
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

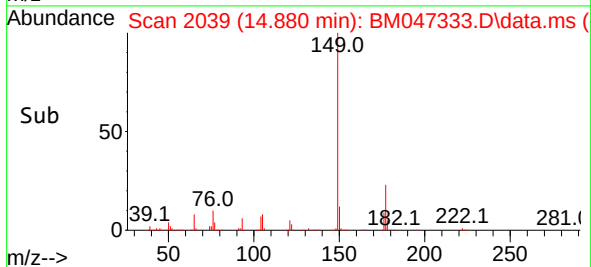
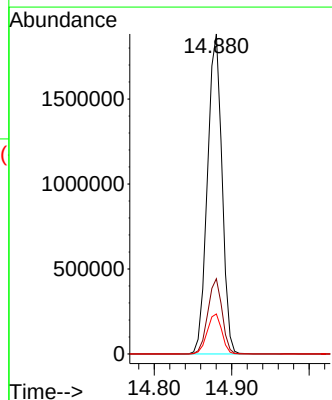
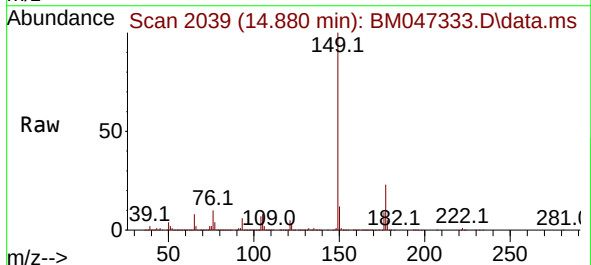
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

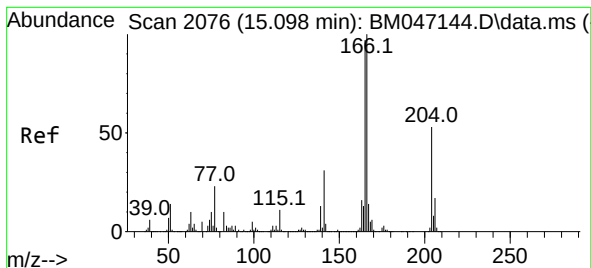
Tgt Ion:232 Resp: 709535
Ion Ratio Lower Upper
232 100
131 39.7 36.9 55.3
130 2.1 2.0 3.0
166 30.3 26.4 39.6



#60
Diethylphthalate
Concen: 42.698 ng
RT: 14.880 min Scan# 2039
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:149 Resp: 2448526
Ion Ratio Lower Upper
149 100
177 23.5 17.6 26.4
150 12.5 9.8 14.6

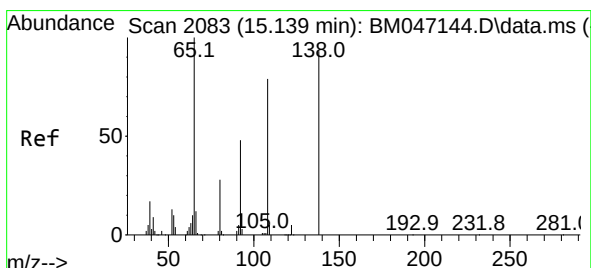
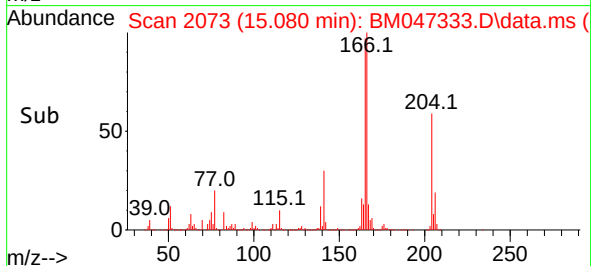
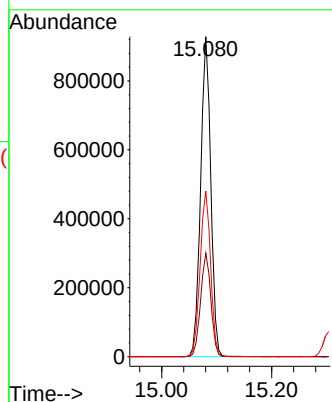
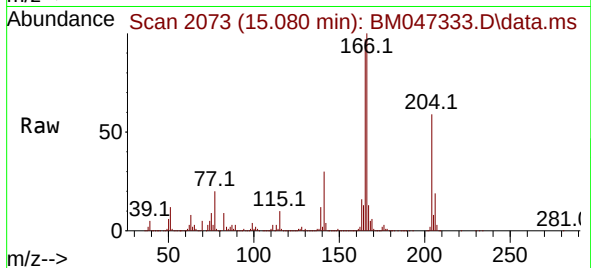




#61
4-Chlorophenyl-phenylether
Concen: 45.991 ng
RT: 15.080 min Scan# 2076
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

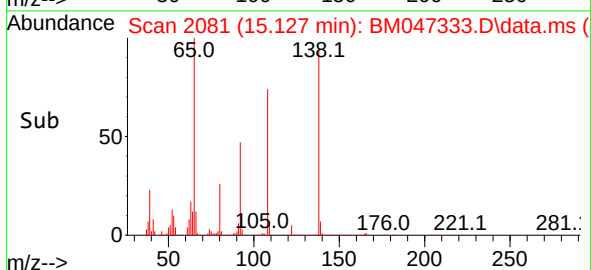
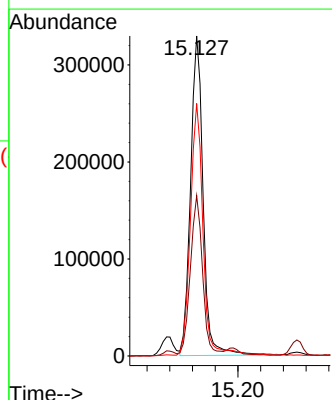
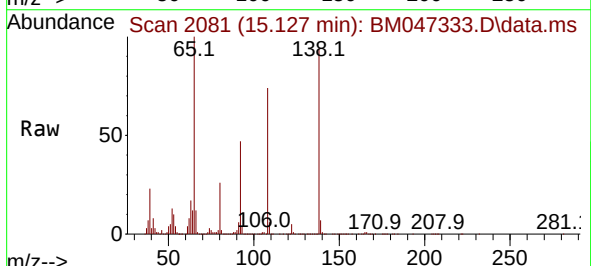
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

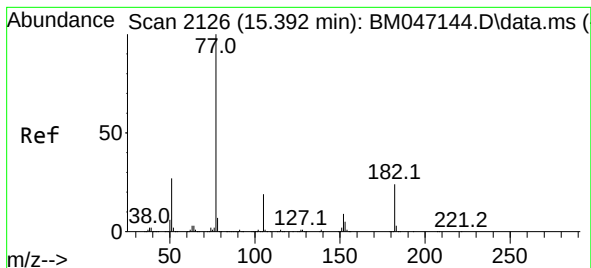
Tgt Ion:204 Resp: 1193764
Ion Ratio Lower Upper
204 100
206 32.4 26.2 39.4
141 51.7 47.2 70.8



#62
4-Nitroaniline
Concen: 39.084 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:138 Resp: 506482
Ion Ratio Lower Upper
138 100
92 50.1 31.9 71.9
108 78.9 63.8 103.8





#63

Azobenzene

Concen: 39.821 ng

RT: 15.374 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion: 77 Resp: 2165166

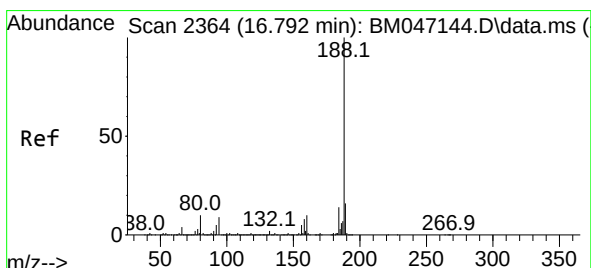
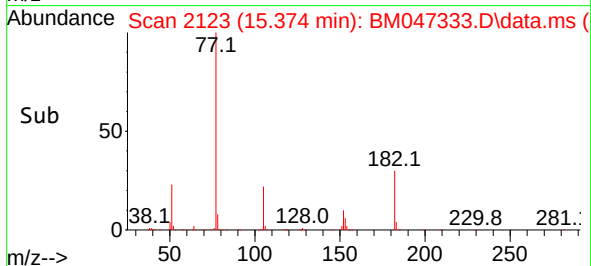
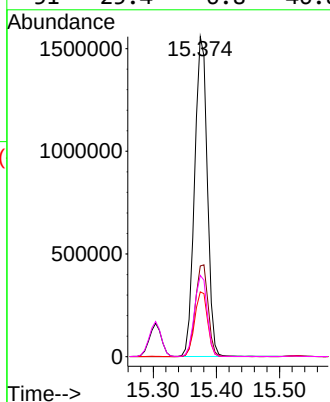
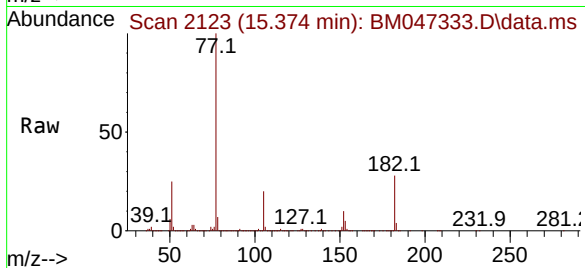
Ion Ratio Lower Upper

77 100

182 28.4 3.8 43.8

105 20.3 0.0 39.5

51 25.4 6.8 46.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.774 min Scan# 2361

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

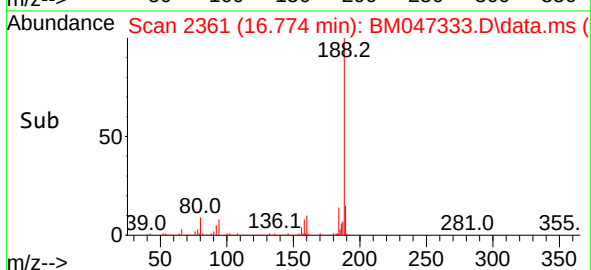
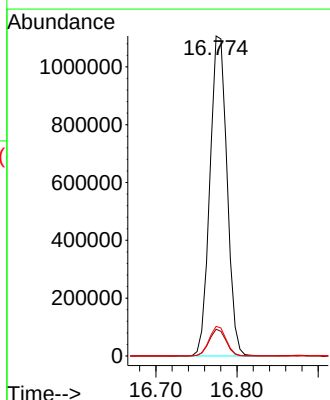
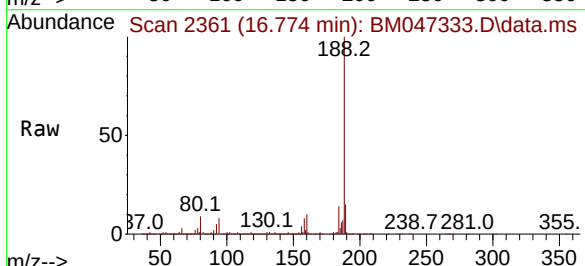
Tgt Ion:188 Resp: 1621671

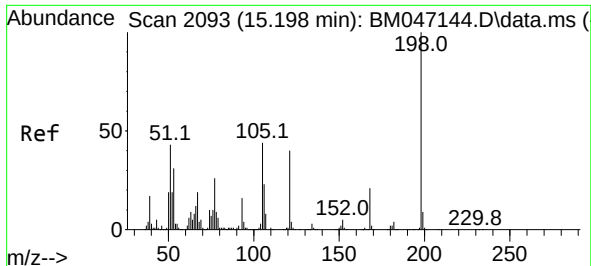
Ion Ratio Lower Upper

188 100

94 8.3 7.0 10.6

80 9.2 8.0 12.0

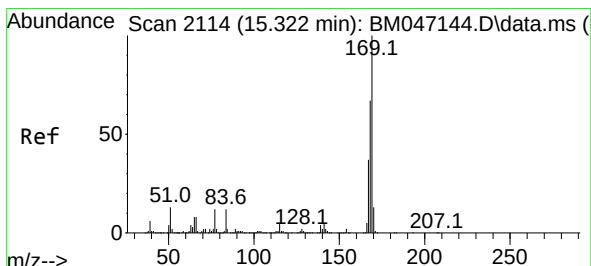
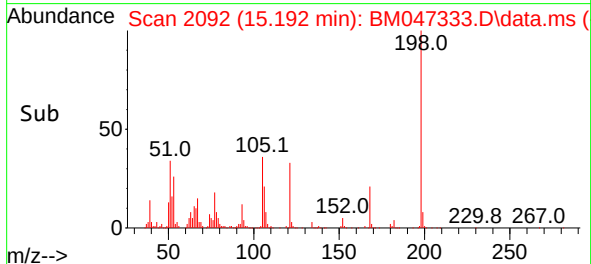
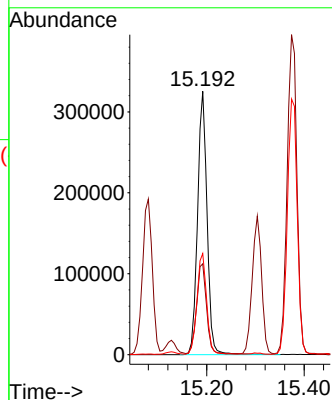
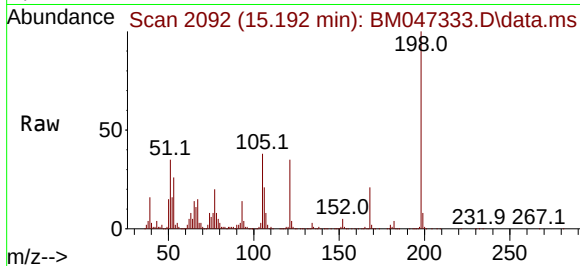




#65
4,6-Dinitro-2-methylphenol
Concen: 46.784 ng
RT: 15.192 min Scan# 2092
Delta R.T. -0.006 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

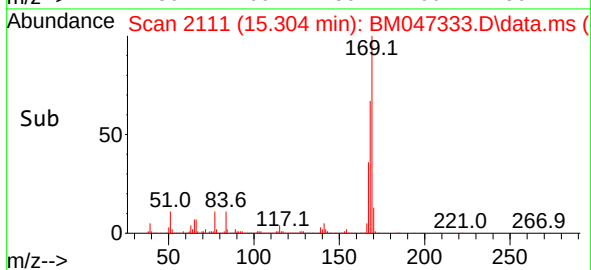
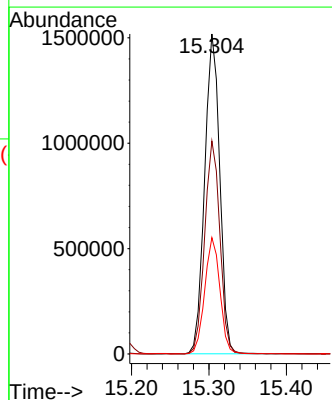
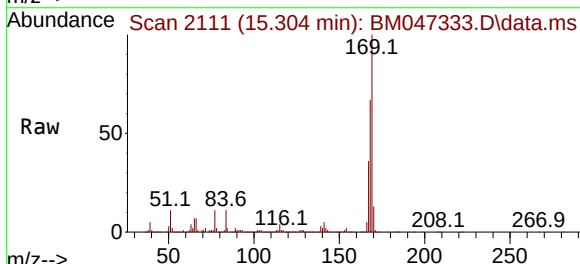
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

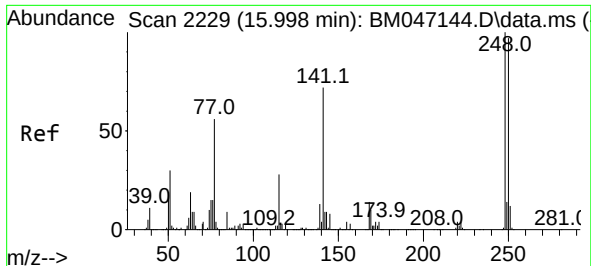
Tgt Ion:198 Resp: 444196
Ion Ratio Lower Upper
198 100
51 34.5 23.9 63.9
105 38.4 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 46.571 ng
RT: 15.304 min Scan# 2111
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:169 Resp: 2057047
Ion Ratio Lower Upper
169 100
168 66.5 53.8 80.8
167 36.3 29.3 43.9

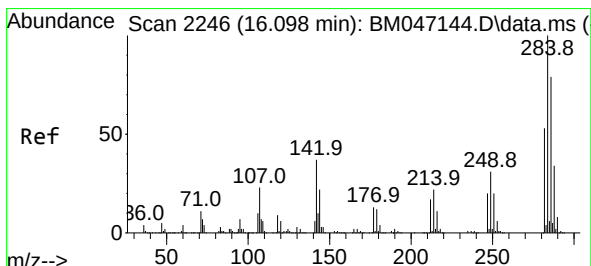
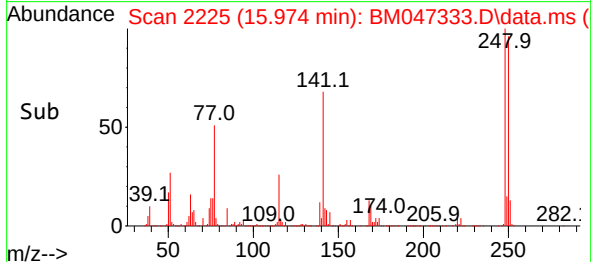
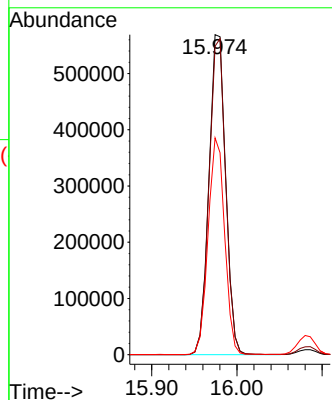
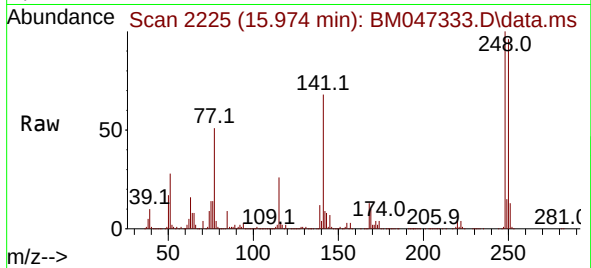




#67
4-Bromophenyl-phenylether
Concen: 49.737 ng
RT: 15.974 min Scan# 211
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

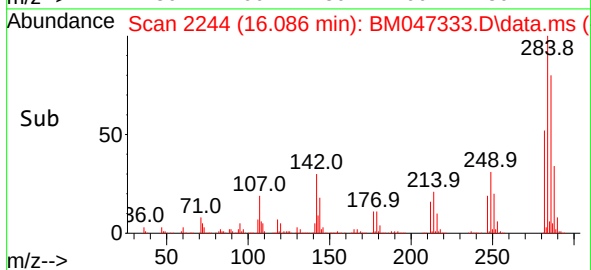
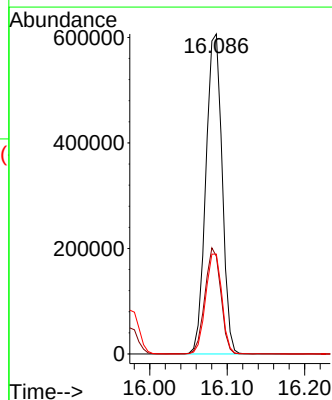
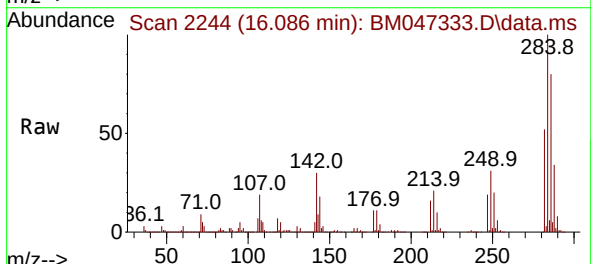
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

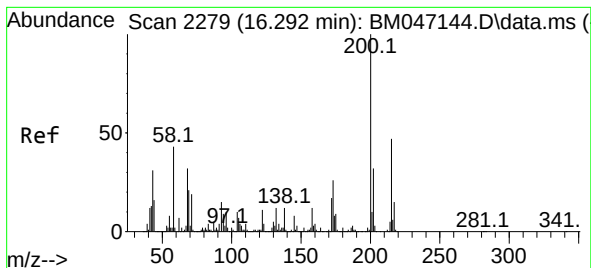
Tgt Ion:248 Resp: 777219
Ion Ratio Lower Upper
248 100
250 96.4 77.8 116.8
141 67.7 57.7 86.5



#68
Hexachlorobenzene
Concen: 47.123 ng
RT: 16.086 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:284 Resp: 881925
Ion Ratio Lower Upper
284 100
142 30.5 29.4 44.0
249 31.2 25.1 37.7





#69

Atrazine

Concen: 58.950 ng

RT: 16.280 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

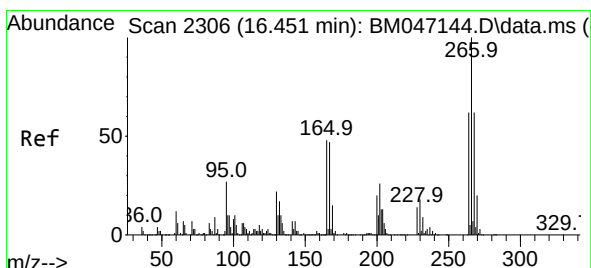
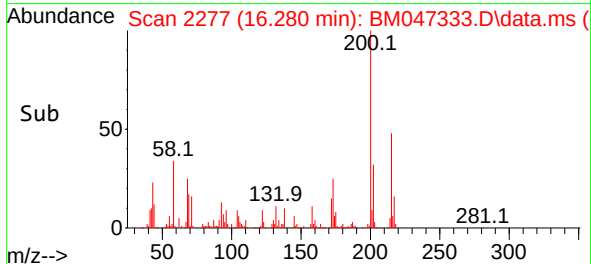
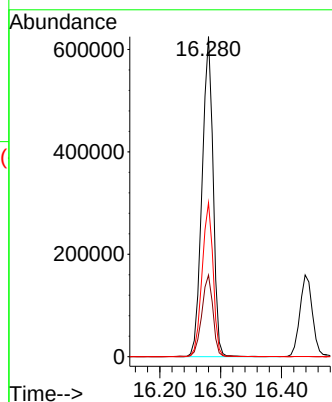
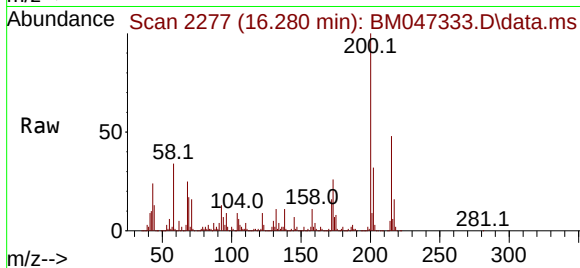
Tgt Ion:200 Resp: 783537

Ion Ratio Lower Upper

200 100

173 25.5 6.1 46.1

215 48.1 26.8 66.8



#70

Pentachlorophenol

Concen: 89.882 ng

RT: 16.439 min Scan# 2304

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

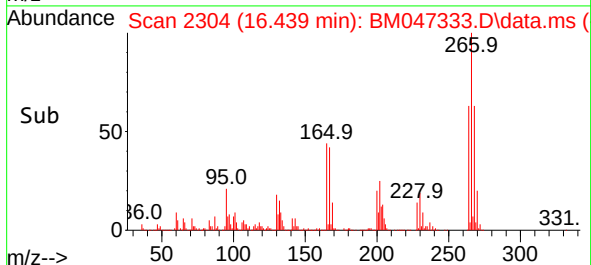
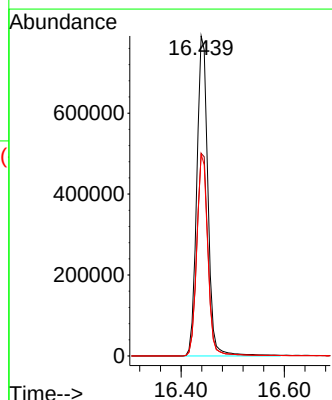
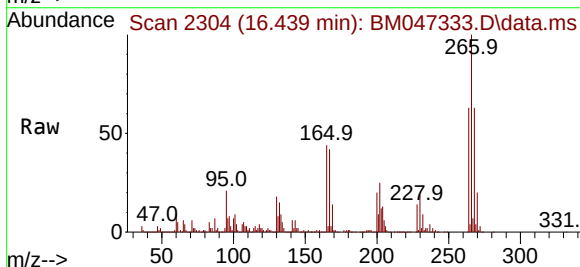
Tgt Ion:266 Resp: 1179170

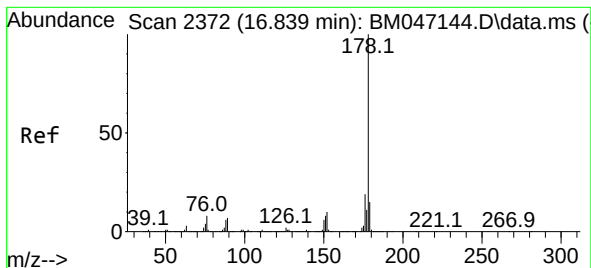
Ion Ratio Lower Upper

266 100

268 63.3 49.8 74.6

264 63.0 49.6 74.4





#71

Phenanthrene

Concen: 49.309 ng

RT: 16.821 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

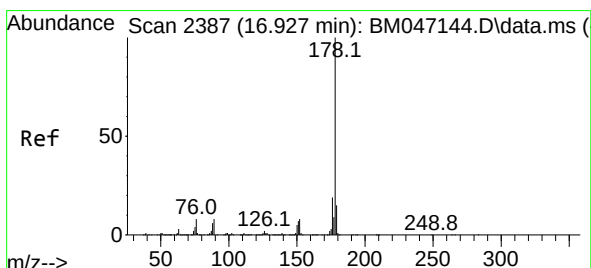
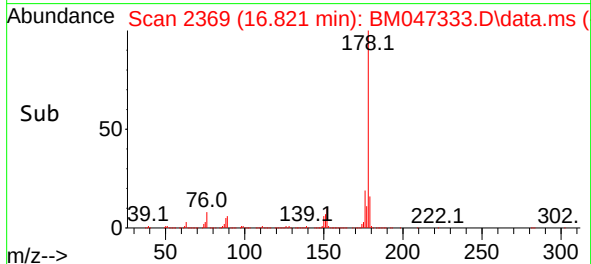
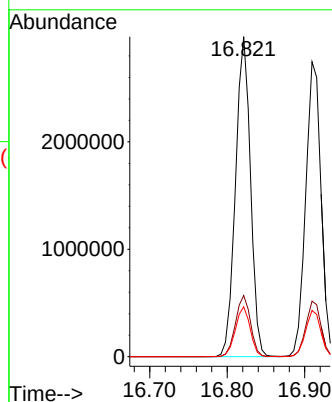
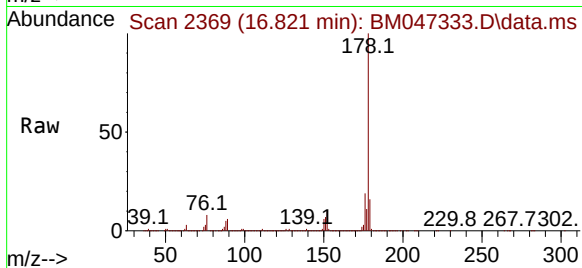
Tgt Ion:178 Resp: 4012992

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.6 12.4 18.6



#72

Anthracene

Concen: 47.859 ng

RT: 16.909 min Scan# 2384

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

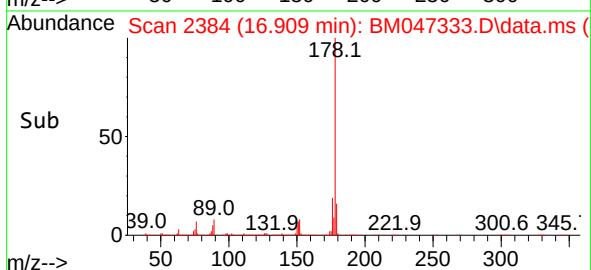
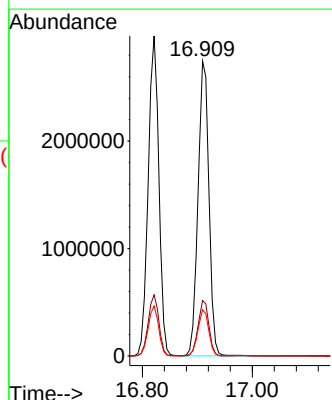
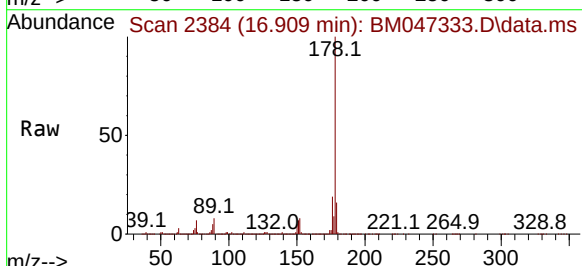
Tgt Ion:178 Resp: 3789930

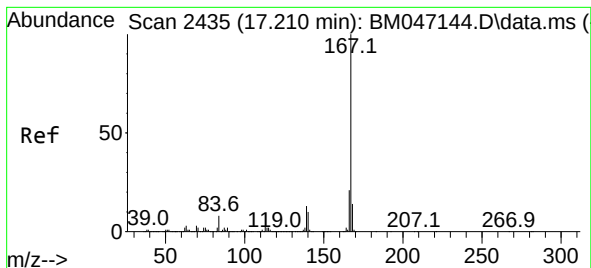
Ion Ratio Lower Upper

178 100

176 18.8 14.8 22.2

179 15.7 12.4 18.6





#73

Carbazole

Concen: 42.573 ng

RT: 17.198 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

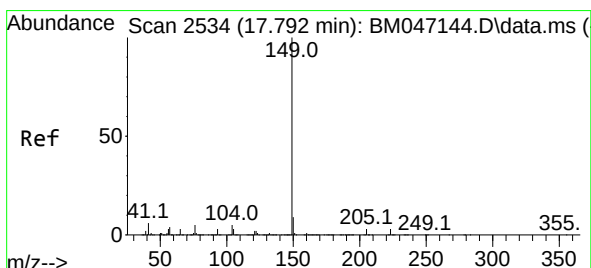
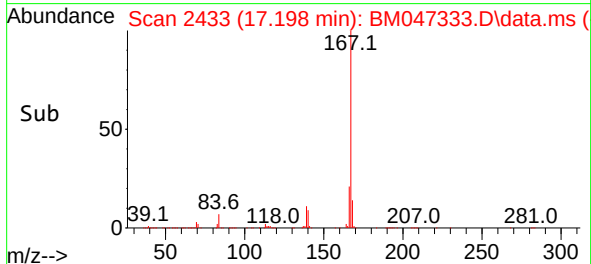
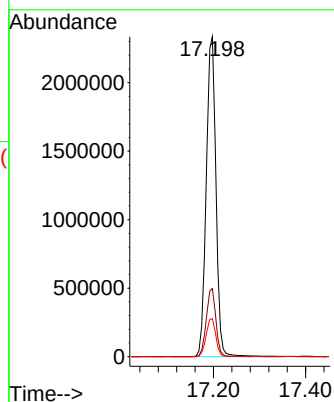
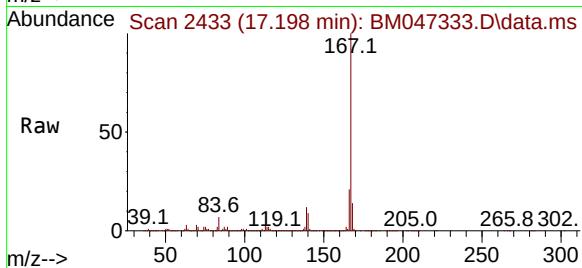
BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion:167 Resp: 3442222

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.1	25.7
139	11.9	10.0	15.0



#74

Di-n-butylphthalate

Concen: 45.912 ng

RT: 17.774 min Scan# 2531

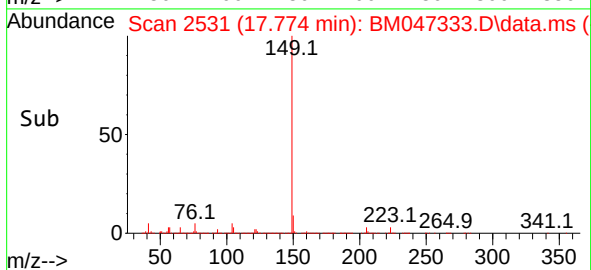
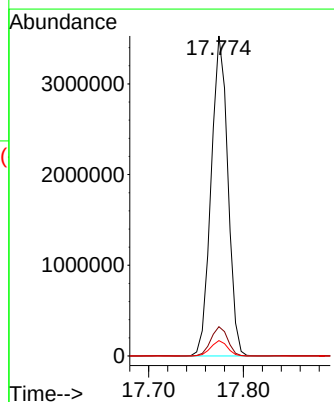
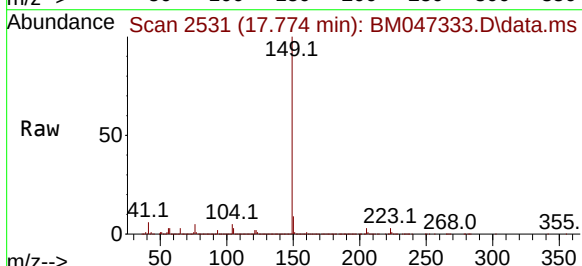
Delta R.T. -0.018 min

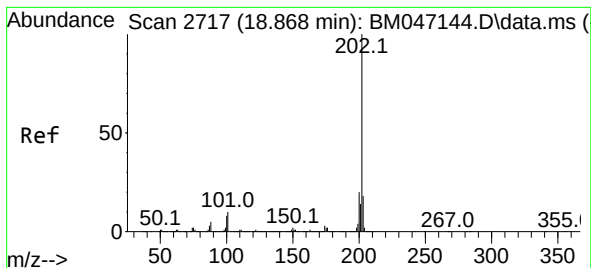
Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Tgt Ion:149 Resp: 4319389

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.5	11.3
104	4.8	4.1	6.1





#75

Fluoranthene

Concen: 48.829 ng

RT: 18.856 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

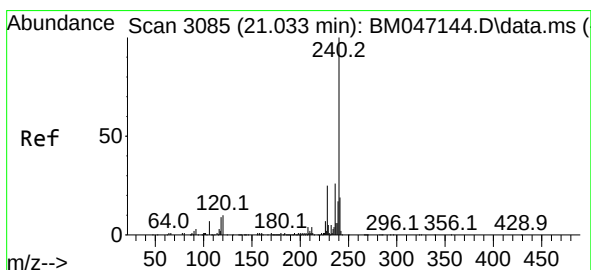
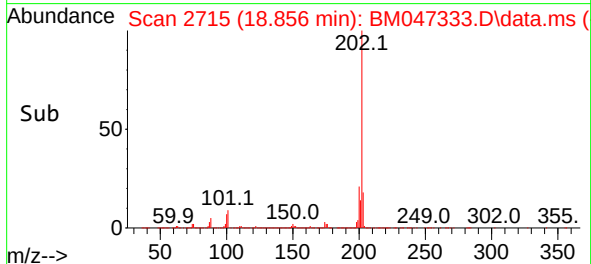
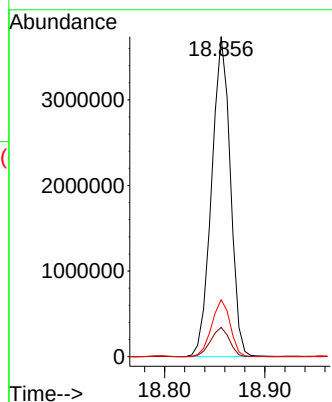
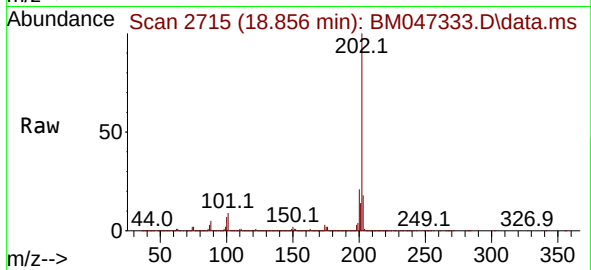
Tgt Ion:202 Resp: 4833611

Ion Ratio Lower Upper

202 100

101 9.2 0.0 30.2

203 17.8 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.021 min Scan# 3083

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

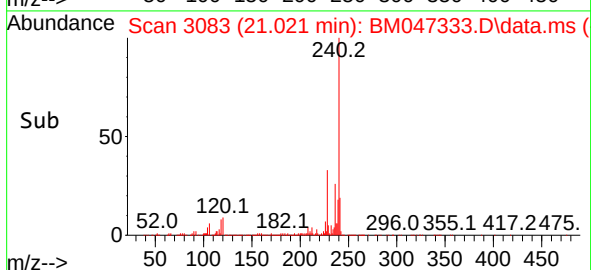
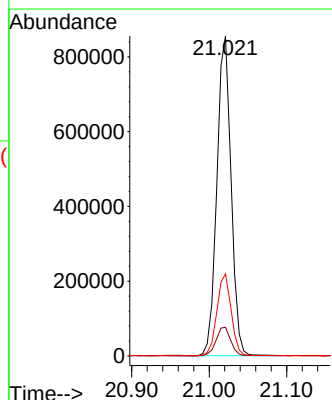
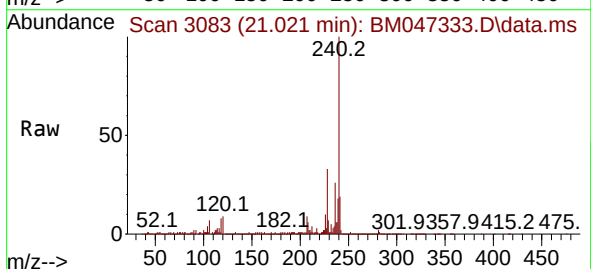
Tgt Ion:240 Resp: 1089141

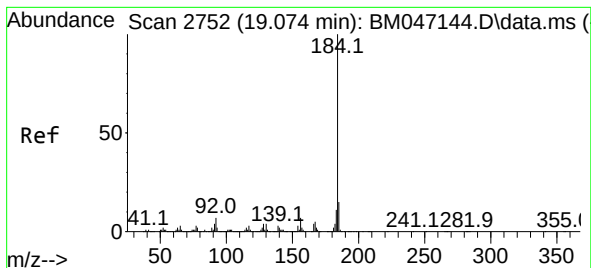
Ion Ratio Lower Upper

240 100

120 9.0 8.2 12.2

236 25.7 20.6 30.8





#77

Benzidine

Concen: 73.106 ng

RT: 19.062 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

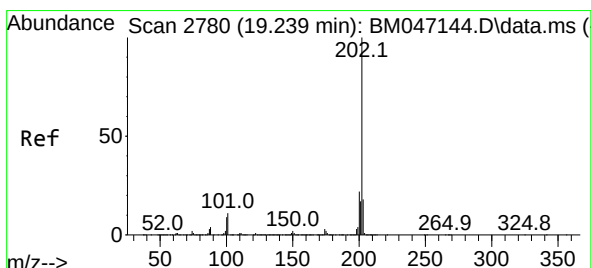
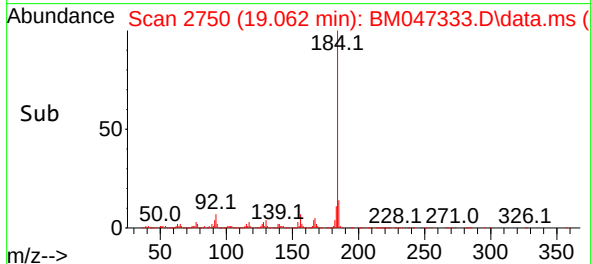
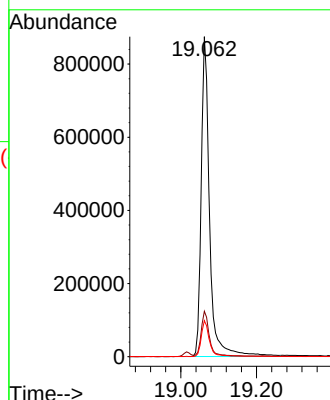
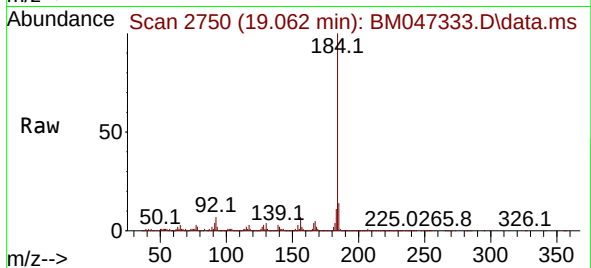
Tgt Ion:184 Resp: 1350286

Ion Ratio Lower Upper

184 100

185 14.2 11.8 17.6

183 11.2 9.0 13.6



#78

Pyrene

Concen: 63.592 ng

RT: 19.221 min Scan# 2777

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

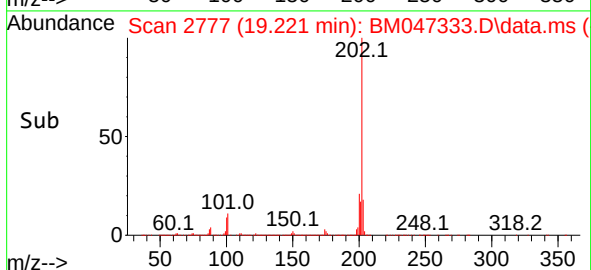
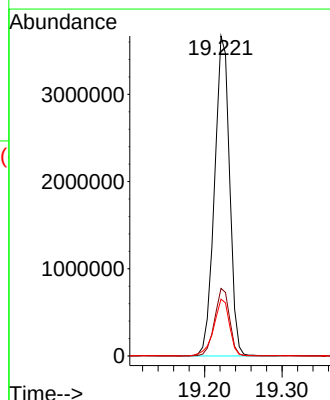
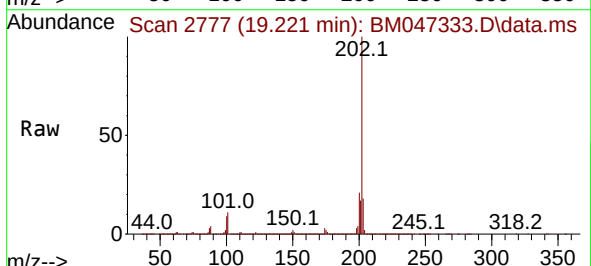
Tgt Ion:202 Resp: 4945407

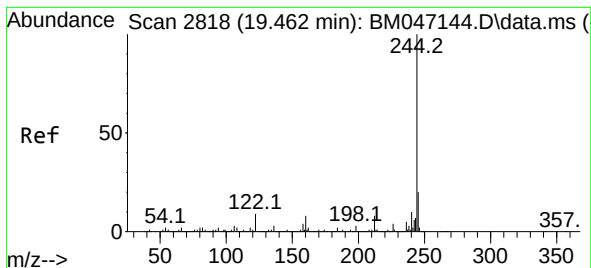
Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.8 14.2 21.2





#79

Terphenyl-d14

Concen: 98.942 ng

RT: 19.445 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047333.D

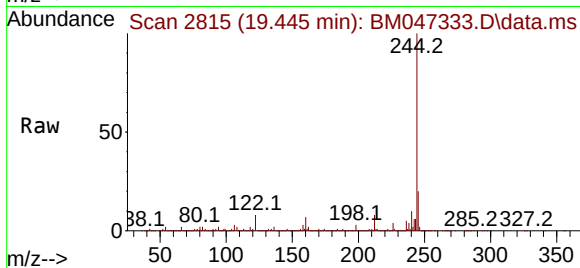
Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS



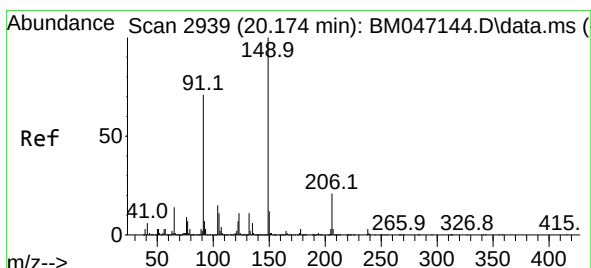
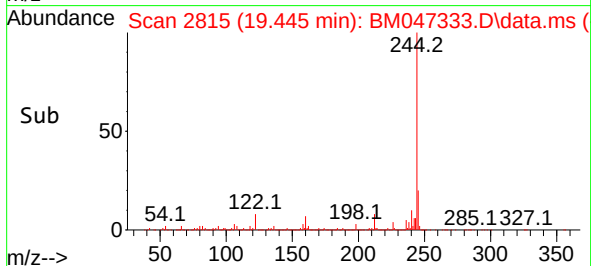
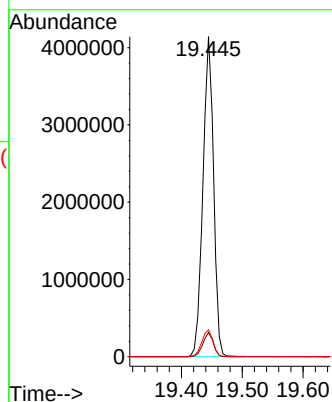
Tgt Ion:244 Resp: 5029091

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.4

122 8.3 7.1 10.7



#80

Butylbenzylphthalate

Concen: 55.244 ng

RT: 20.162 min Scan# 2937

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

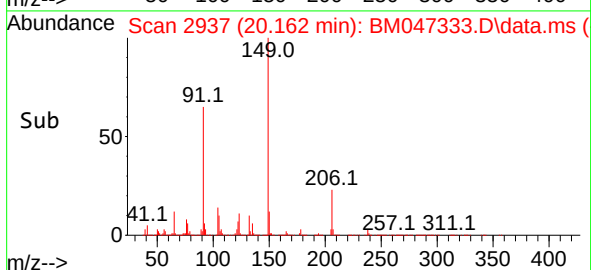
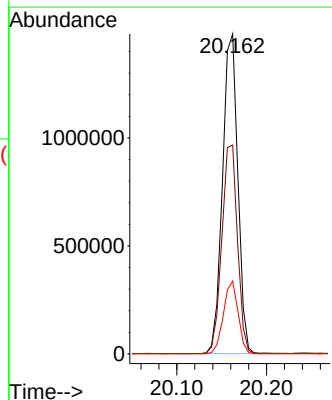
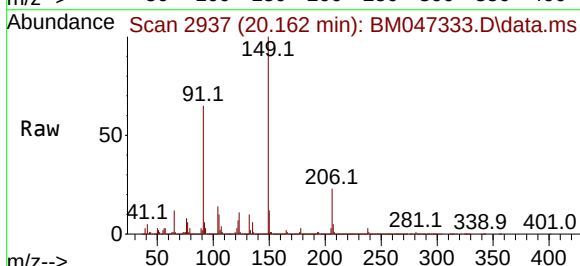
Tgt Ion:149 Resp: 1753293

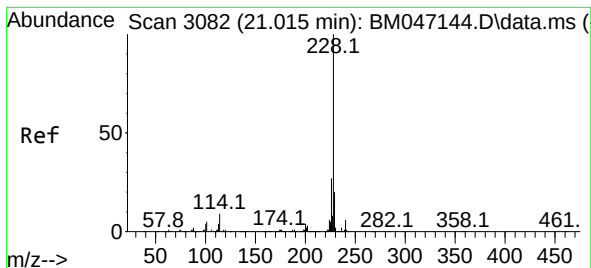
Ion Ratio Lower Upper

149 100

91 65.3 57.0 85.4

206 22.8 16.4 24.6





#81

Benzo(a)anthracene

Concen: 51.062 ng

RT: 21.003 min Scan# 3080

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

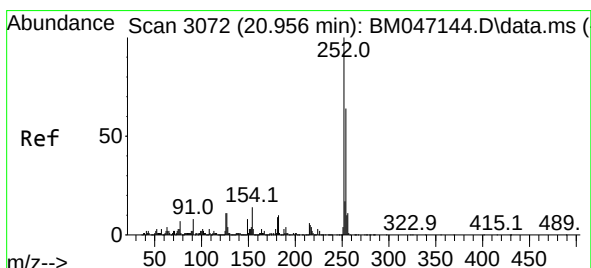
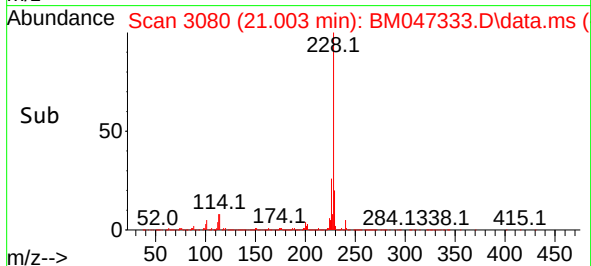
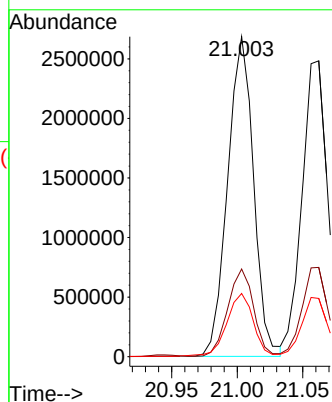
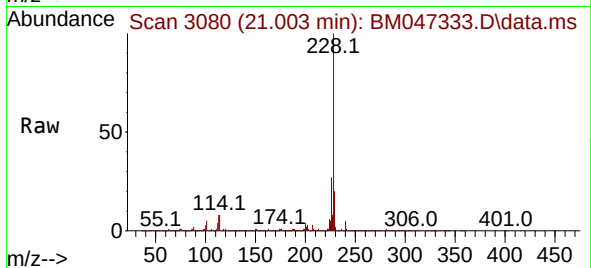
Tgt Ion:228 Resp: 3691978

Ion Ratio Lower Upper

228 100

226 27.4 21.8 32.6

229 19.7 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 50.712 ng

RT: 20.944 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

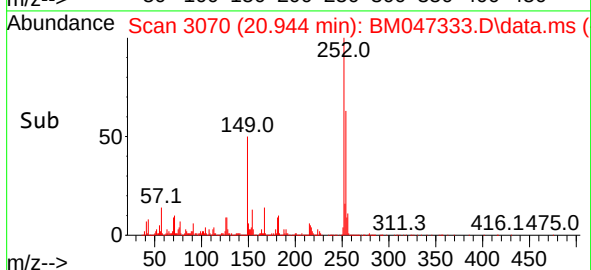
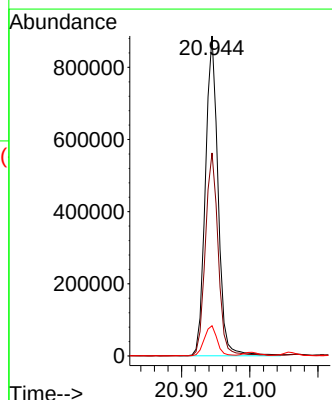
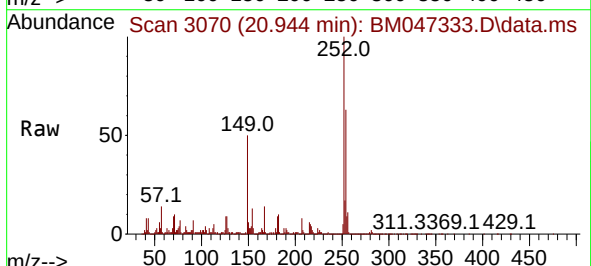
Tgt Ion:252 Resp: 1147224

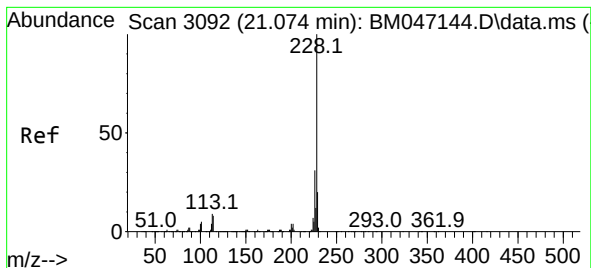
Ion Ratio Lower Upper

252 100

254 63.5 51.0 76.6

126 9.4 8.5 12.7





#83

Chrysene

Concen: 48.805 ng

RT: 21.062 min Scan# 3092

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

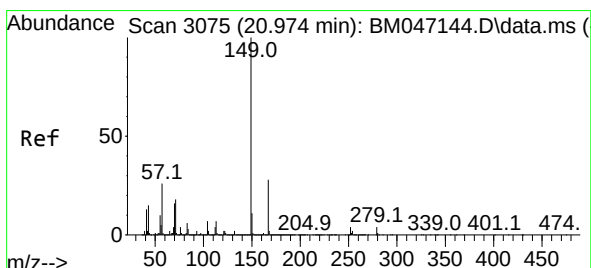
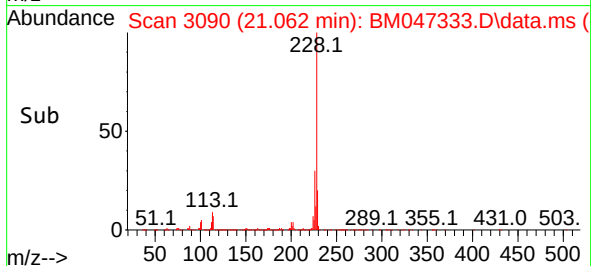
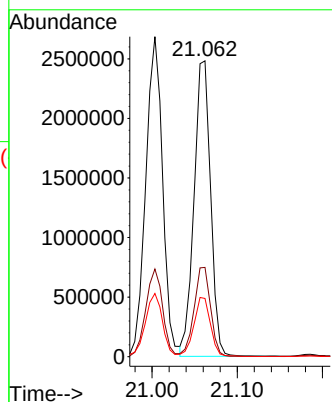
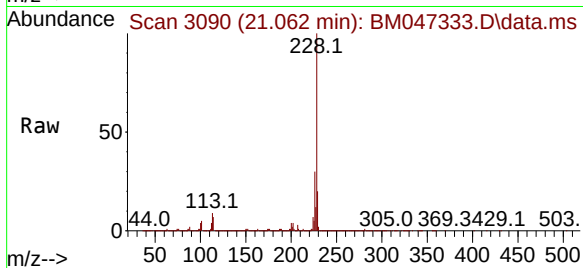
Tgt Ion:228 Resp: 3348019

Ion Ratio Lower Upper

228 100

226 30.2 24.4 36.6

229 19.7 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 52.581 ng

RT: 20.956 min Scan# 3072

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

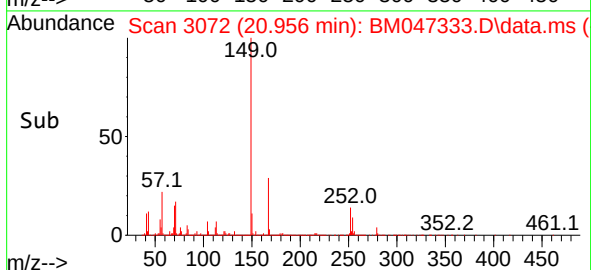
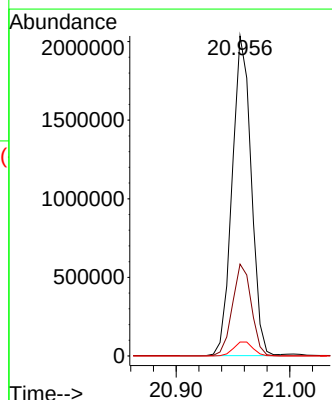
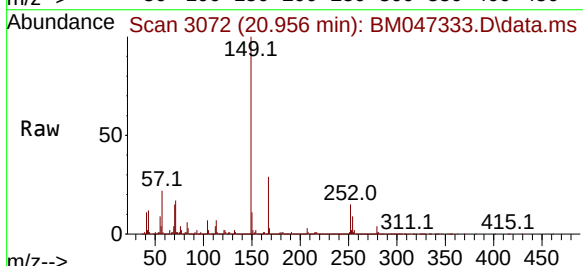
Tgt Ion:149 Resp: 2366605

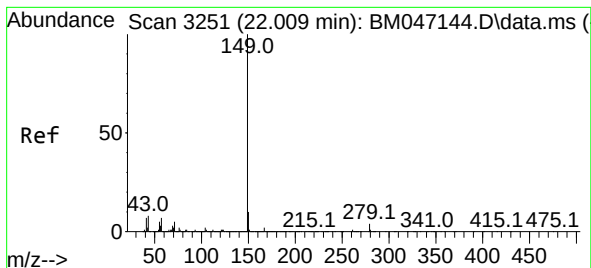
Ion Ratio Lower Upper

149 100

167 28.7 22.2 33.2

279 4.3 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 50.430 ng

RT: 21.986 min Scan# 31

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

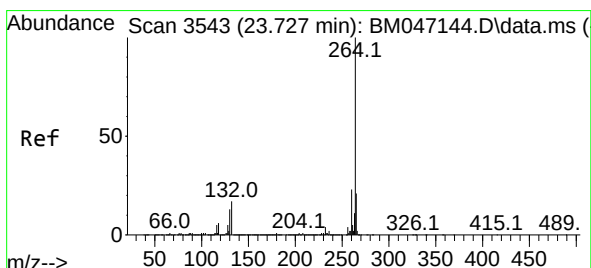
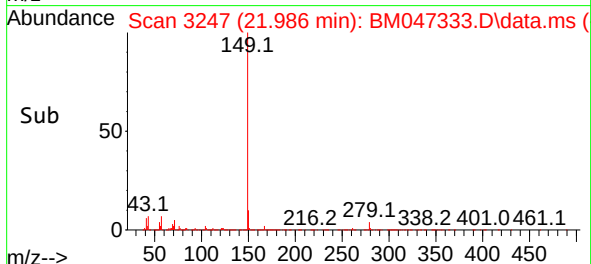
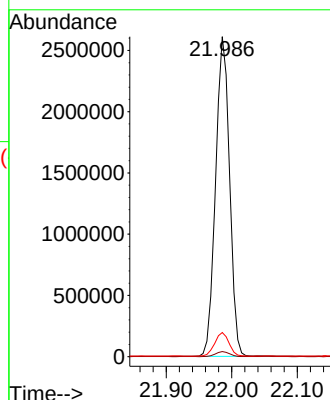
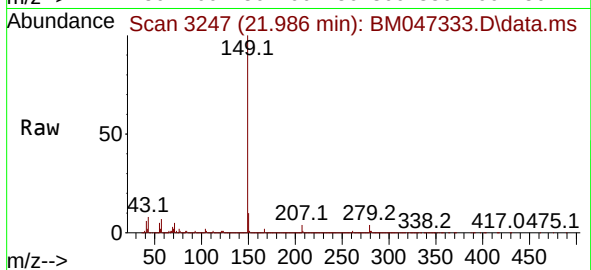
Tgt Ion:149 Resp: 3857938

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

43 7.5 6.9 10.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.709 min Scan# 3540

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

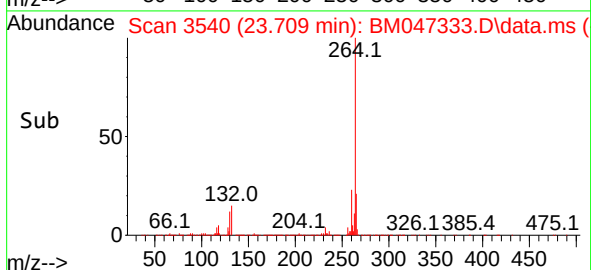
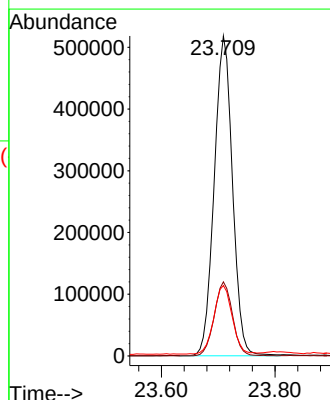
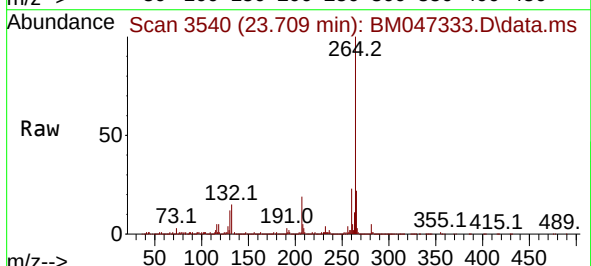
Tgt Ion:264 Resp: 1156252

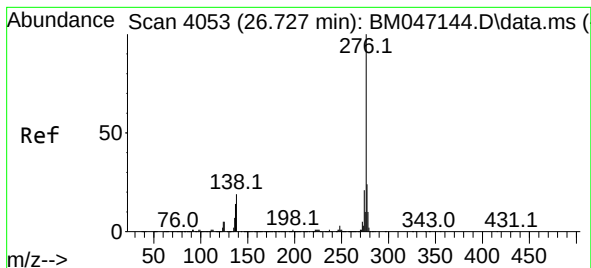
Ion Ratio Lower Upper

264 100

260 23.2 18.5 27.7

265 22.0 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 51.689 ng

RT: 26.709 min Scan# 4053

Delta R.T. -0.018 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

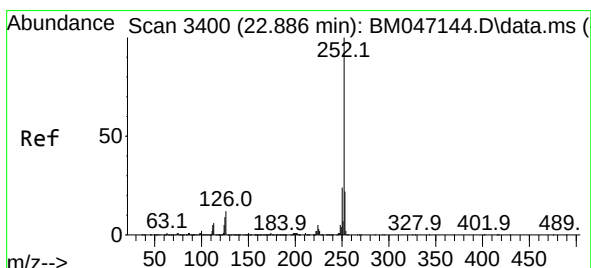
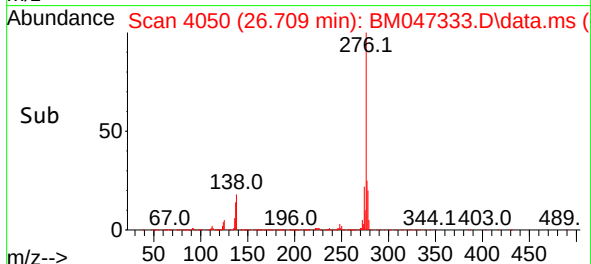
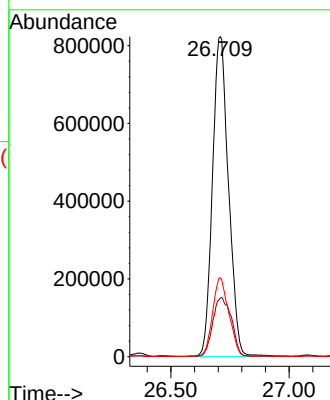
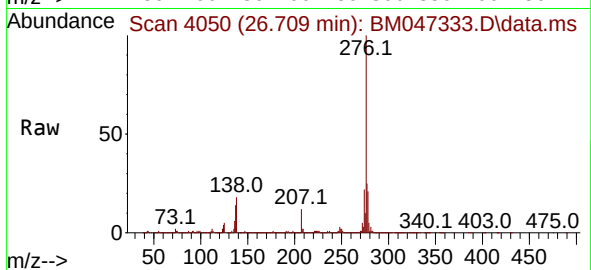
Tgt Ion:276 Resp: 3863105

Ion Ratio Lower Upper

276 100

138 21.6 19.4 29.0

277 24.6 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 48.648 ng

RT: 22.874 min Scan# 3398

Delta R.T. -0.012 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

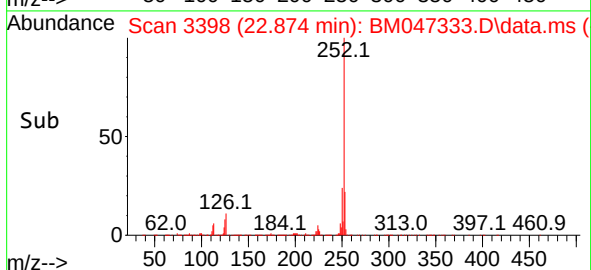
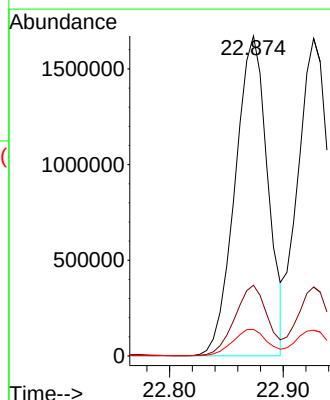
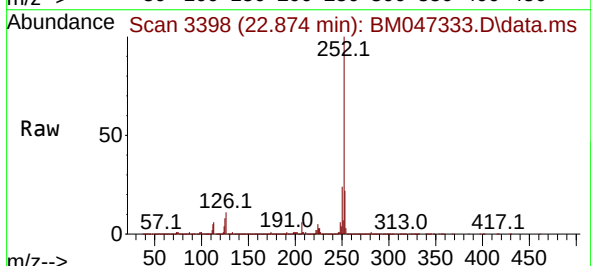
Tgt Ion:252 Resp: 3340456

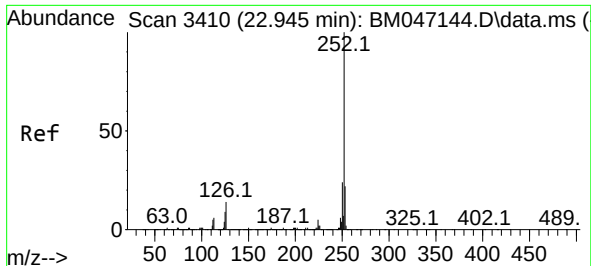
Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.6

125 8.3 7.4 11.0

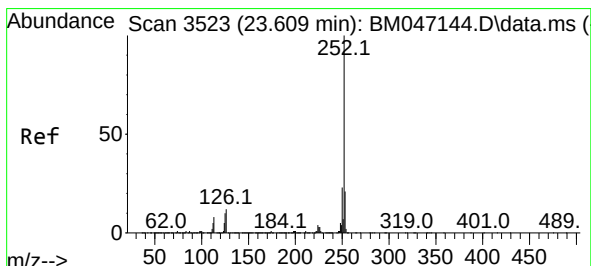
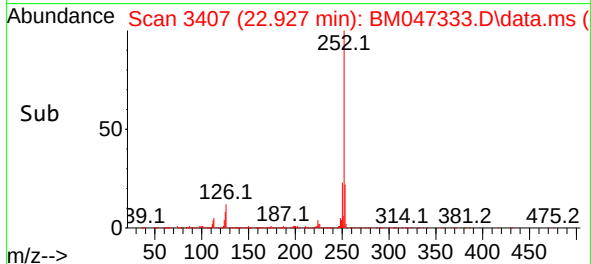
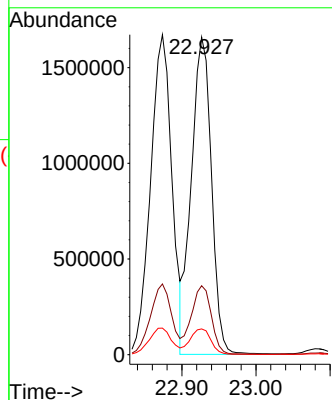
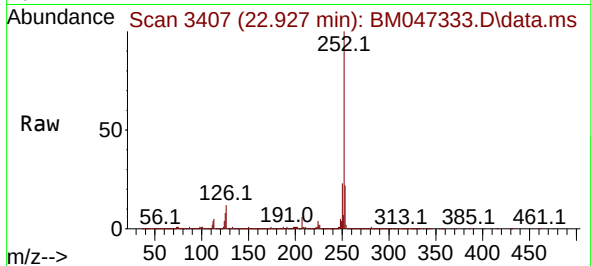




#89
Benzo(k)fluoranthene
Concen: 48.259 ng
RT: 22.927 min Scan# 3410
Delta R.T. -0.018 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

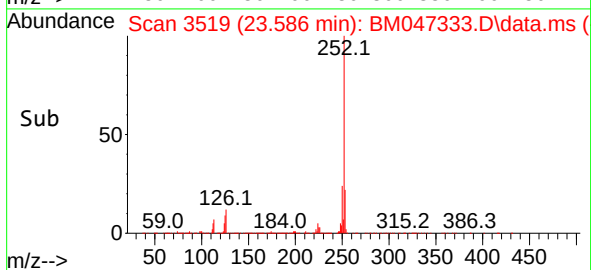
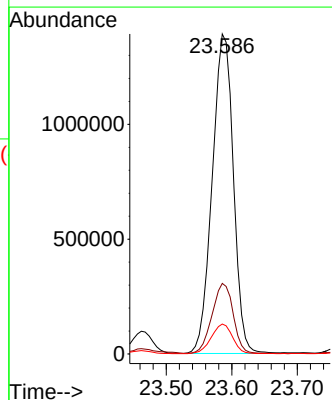
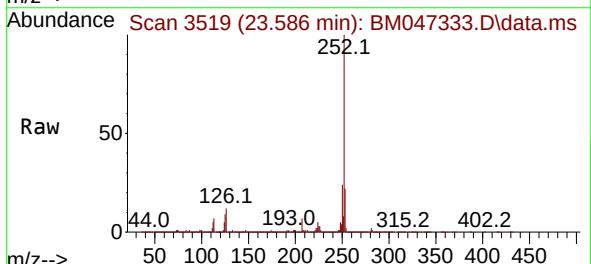
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

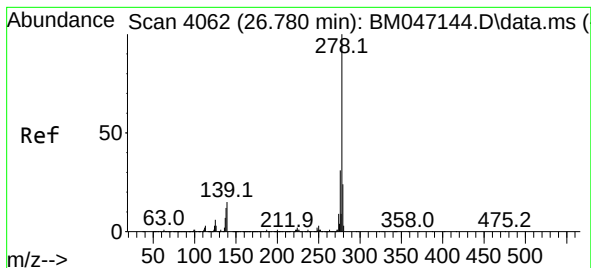
Tgt Ion:252 Resp: 3129987
Ion Ratio Lower Upper
252 100
253 21.7 17.7 26.5
125 8.1 7.4 11.2



#90
Benzo(a)pyrene
Concen: 52.350 ng
RT: 23.586 min Scan# 3519
Delta R.T. -0.024 min
Lab File: BM047333.D
Acq: 23 Aug 2024 14:48

Tgt Ion:252 Resp: 3113924
Ion Ratio Lower Upper
252 100
253 22.1 17.1 25.7
125 9.3 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 48.006 ng

RT: 26.756 min Scan# 40

Delta R.T. -0.024 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

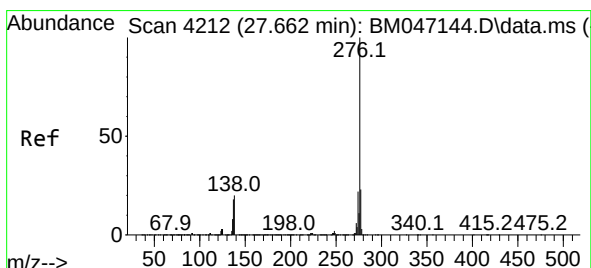
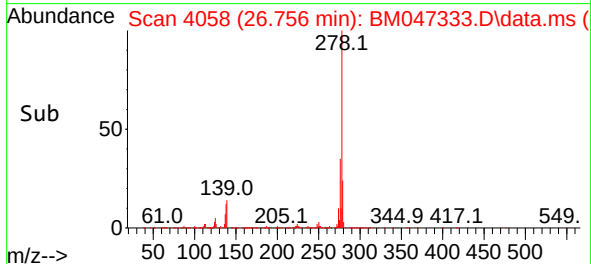
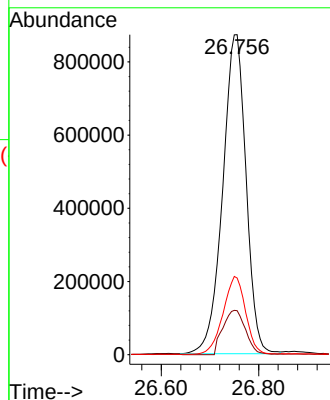
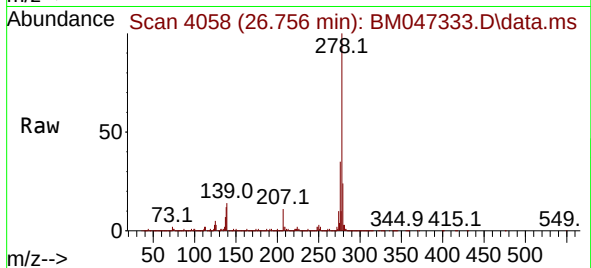
Tgt Ion:278 Resp: 2903565

Ion Ratio Lower Upper

278 100

139 13.8 12.0 18.0

279 24.0 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 48.757 ng

RT: 27.632 min Scan# 4207

Delta R.T. -0.030 min

Lab File: BM047333.D

Acq: 23 Aug 2024 14:48

Tgt Ion:276 Resp: 3061813

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 19.0 16.2 24.4

