

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082124\
 Data File : BM047304.D
 Acq On : 21 Aug 2024 19:05
 Operator : RC/JU
 Sample : P3652-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

Quant Time: Aug 22 02:36:40 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	228983	20.000	ng	-0.02
21) Naphthalene-d8	10.110	136	885541	20.000	ng	-0.02
39) Acenaphthene-d10	14.016	164	598772	20.000	ng	-0.02
64) Phenanthrene-d10	16.780	188	1314355	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	1199987	20.000	ng	-0.01
86) Perylene-d12	23.715	264	1244820	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	1329487	103.745	ng	-0.01
7) Phenol-d6	6.569	99	1761569	99.761	ng	-0.02
23) Nitrobenzene-d5	8.504	82	1186779	67.482	ng	-0.02
42) 2,4,6-Tribromophenol	15.527	330	816533	117.608	ng	-0.01
45) 2-Fluorobiphenyl	12.622	172	2757519	71.038	ng	-0.02
79) Terphenyl-d14	19.445	244	4679644	83.562	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.022	88	193752	36.490	ng	96
3) Pyridine	3.393	79	530466	34.070	ng	97
4) n-Nitrosodimethylamine	3.316	42	253613	37.282	ng	96
6) Aniline	6.704	93	662065	39.668	ng	99
8) 2-Chlorophenol	6.934	128	645214	46.163	ng	97
9) Benzaldehyde	6.516	77	324774	32.561	ng	98
10) Phenol	6.599	94	753962	42.791	ng	97
11) bis(2-Chloroethyl)ether	6.804	93	607967	40.292	ng	99
12) 1,3-Dichlorobenzene	7.240	146	709960	42.745	ng	98
13) 1,4-Dichlorobenzene	7.387	146	716483	42.606	ng	98
14) 1,2-Dichlorobenzene	7.693	146	695608	43.841	ng	99
15) Benzyl Alcohol	7.610	79	573640	45.646	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.881	45	763953	39.456	ng	99
17) 2-Methylphenol	7.816	107	519104	44.161	ng	99
18) Hexachloroethane	8.404	117	269697	41.403	ng	94
19) n-Nitroso-di-n-propyla...	8.163	70	455305	38.280	ng	99
20) 3+4-Methylphenols	8.146	107	714990	43.508	ng	99
22) Acetophenone	8.175	105	883394	41.327	ng	98
24) Nitrobenzene	8.546	77	718821	40.591	ng	97
25) Isophorone	9.069	82	1310386	42.794	ng	98
26) 2-Nitrophenol	9.245	139	370671	47.264	ng	93
27) 2,4-Dimethylphenol	9.322	122	517823	56.367	ng	99
28) bis(2-Chloroethoxy)met...	9.551	93	800879	41.566	ng	100
29) 2,4-Dichlorophenol	9.781	162	680411	49.917	ng	98
30) 1,2,4-Trichlorobenzene	9.981	180	695269	45.072	ng	98
31) Naphthalene	10.157	128	1899863	43.067	ng	100
32) Benzoic acid	9.516	122	521173	48.830	ng	97
33) 4-Chloroaniline	10.287	127	568067	33.486	ng	99
34) Hexachlorobutadiene	10.440	225	433034	47.961	ng	98
35) Caprolactam	11.098	113	225716	47.682	ng	92
36) 4-Chloro-3-methylphenol	11.439	107	671218	46.237	ng	100
37) 2-Methylnaphthalene	11.786	142	1390601	44.273	ng	99
38) 1-Methylnaphthalene	12.010	142	1304095	42.010	ng	98
40) 1,2,4,5-Tetrachloroben...	12.169	216	783053	47.947	ng	98
41) Hexachlorocyclopentadiene	12.139	237	628042	110.128	ng	96
43) 2,4,6-Trichlorophenol	12.428	196	573523	49.407	ng	98

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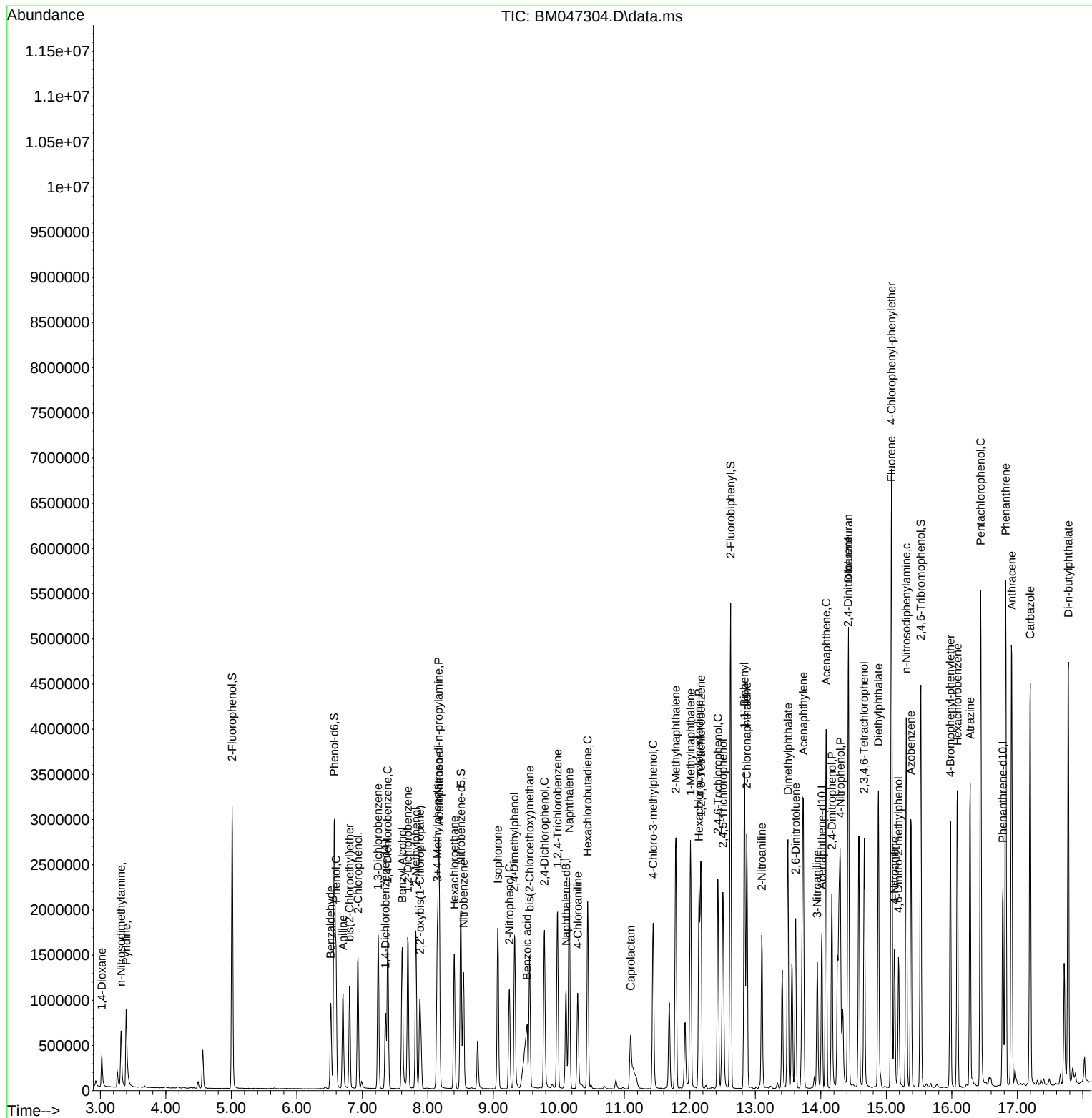
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.504	196	622461	48.296	ng	97
46) 1,1'-Biphenyl	12.833	154	1822360	42.751	ng	99
47) 2-Chloronaphthalene	12.869	162	1415108	42.473	ng	99
48) 2-Nitroaniline	13.098	65	452275	43.330	ng	96
49) Acenaphthylene	13.733	152	2333007	47.504	ng	100
50) Dimethylphthalate	13.498	163	1865941	44.620	ng	99
51) 2,6-Dinitrotoluene	13.616	165	425552	43.532	ng	89
52) Acenaphthene	14.080	154	1402512	45.020	ng	99
53) 3-Nitroaniline	13.945	138	362871	37.044	ng	100
54) 2,4-Dinitrophenol	14.169	184	508806	86.841	ng	93
55) Dibenzofuran	14.422	168	2217793	45.070	ng	98
56) 4-Nitrophenol	14.298	139	773827	91.612	ng	97
57) 2,4-Dinitrotoluene	14.416	165	578375	44.326	ng	97
58) Fluorene	15.075	166	1816495	44.740	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.663	232	552716	52.180	ng	94
60) Diethylphthalate	14.880	149	1864139	43.652	ng	98
61) 4-Chlorophenyl-phenyle...	15.080	204	882828	45.673	ng	96
62) 4-Nitroaniline	15.127	138	419644	43.485	ng	96
63) Azobenzene	15.374	77	1692689	41.804	ng	96
65) 4,6-Dinitro-2-methylph...	15.186	198	332829	43.251	ng	95
66) n-Nitrosodiphenylamine	15.304	169	1601816	44.744	ng	99
67) 4-Bromophenyl-phenylether	15.980	248	590008	46.585	ng	95
68) Hexachlorobenzene	16.086	284	689947	45.485	ng	95
69) Atrazine	16.280	200	640632	59.468	ng	98
70) Pentachlorophenol	16.439	266	995723	93.645	ng	99
71) Phenanthrene	16.821	178	3275384	49.655	ng	100
72) Anthracene	16.916	178	3102162	48.334	ng	100
73) Carbazole	17.198	167	2990457	45.634	ng	99
74) Di-n-butylphthalate	17.780	149	3484396	45.696	ng	99
75) Fluoranthene	18.857	202	4381220	54.607	ng	99
77) Benzidine	19.062	184	1643576	80.766	ng	99
78) Pyrene	19.227	202	4600315	53.690	ng	99
80) Butylbenzylphthalate	20.162	149	1691355	48.370	ng	95
81) Benzo(a)anthracene	21.004	228	4041417	50.732	ng	99
82) 3,3'-Dichlorobenzidine	20.945	252	1272688	51.061	ng	99
83) Chrysene	21.062	228	3753172	49.658	ng	100
84) Bis(2-ethylhexyl)phtha...	20.962	149	2321920	46.823	ng	# 97
85) Di-n-octyl phthalate	21.992	149	4252171	50.449	ng	97
87) Indeno(1,2,3-cd)pyrene	26.715	276	3870987	48.109	ng	97
88) Benzo(b)fluoranthene	22.874	252	3808791	51.522	ng	99
89) Benzo(k)fluoranthene	22.933	252	3431805	49.148	ng	99
90) Benzo(a)pyrene	23.592	252	3393647	52.994	ng	99
91) Dibenzo(a,h)anthracene	26.762	278	2941564	45.174	ng	99
92) Benzo(g,h,i)perylene	27.638	276	3066801	45.362	ng	98

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

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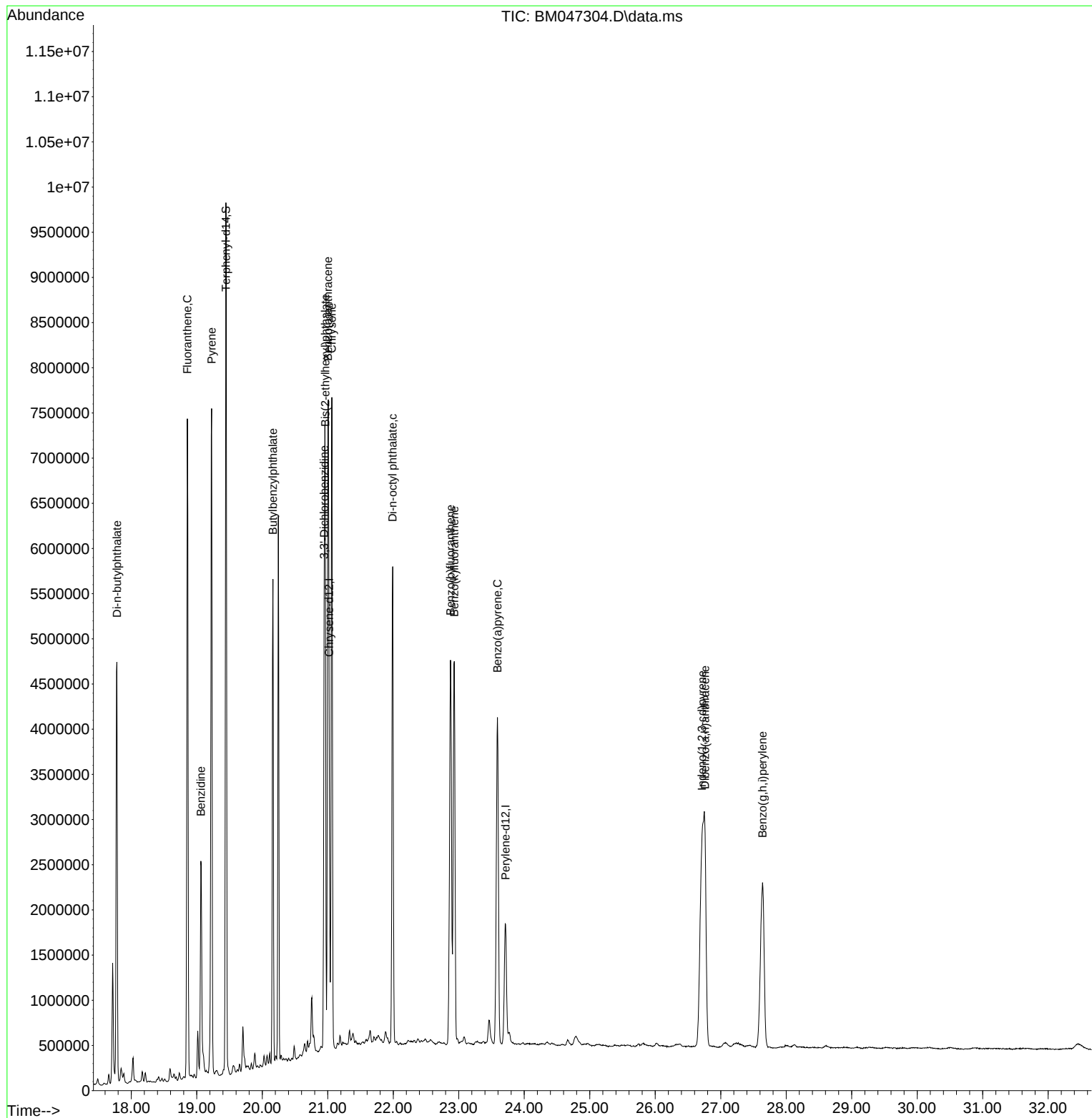
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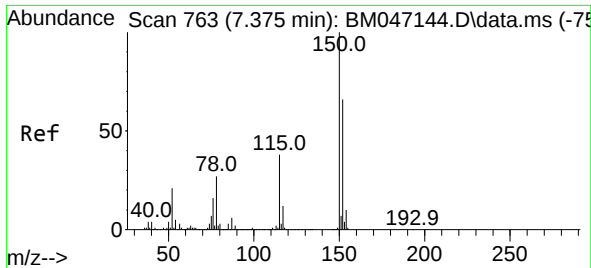


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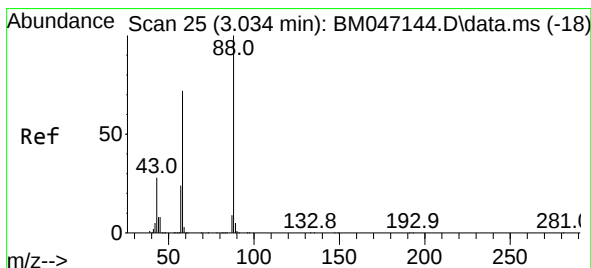
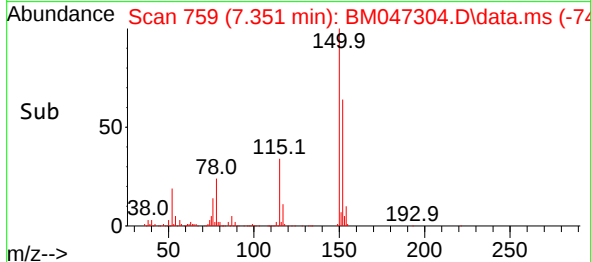
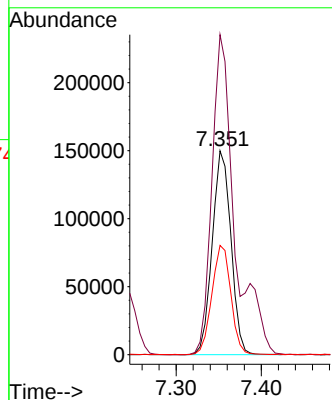
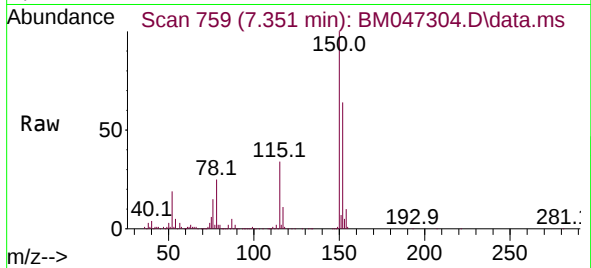




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.351 min Scan# 70
Delta R.T. -0.024 min
Lab File: BM047304.D
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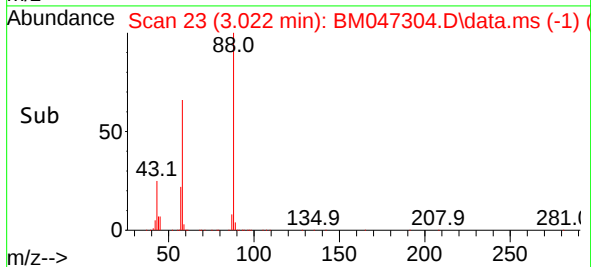
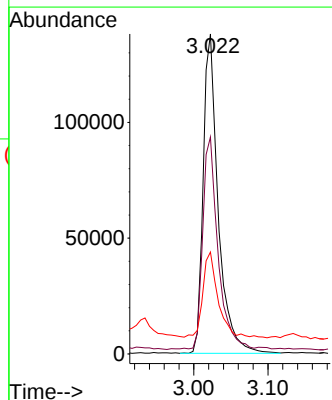
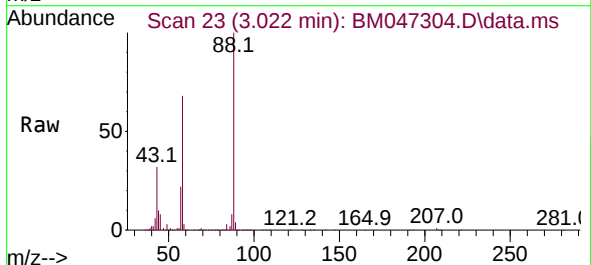
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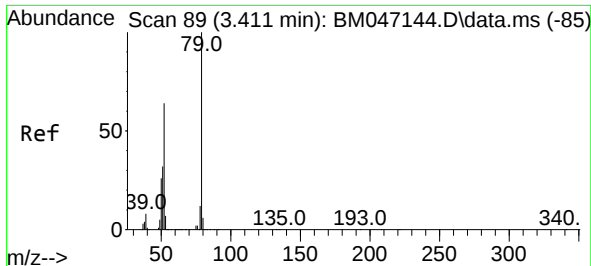
Tgt Ion:152 Resp: 228983
Ion Ratio Lower Upper
152 100
150 157.0 120.5 180.7
115 53.6 45.5 68.3



#2
1,4-Dioxane
Concen: 36.490 ng
RT: 3.022 min Scan# 23
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 88 Resp: 193752
Ion Ratio Lower Upper
88 100
58 67.8 58.2 87.4
43 28.2 22.5 33.7

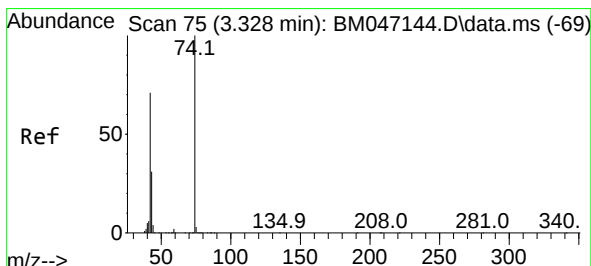
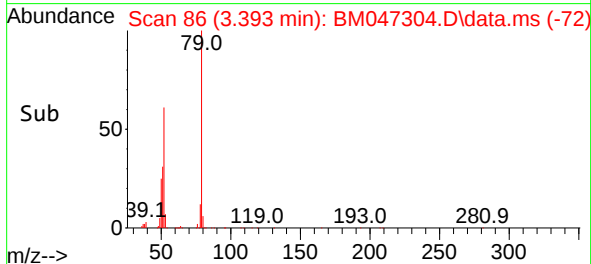
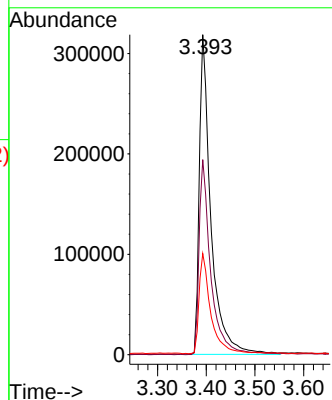
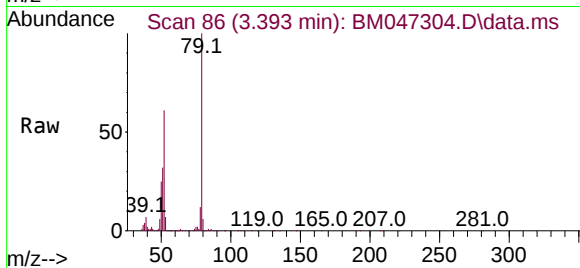




#3
 Pyridine
 Concen: 34.070 ng
 RT: 3.393 min Scan# 80
 Delta R.T. -0.018 min
 Lab File: BM047304.D
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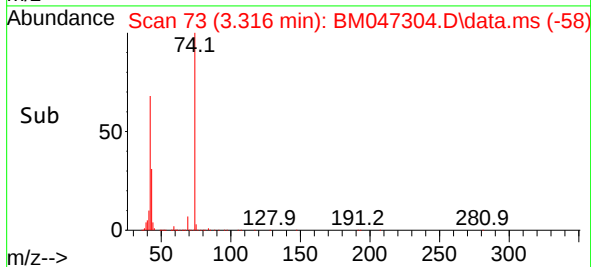
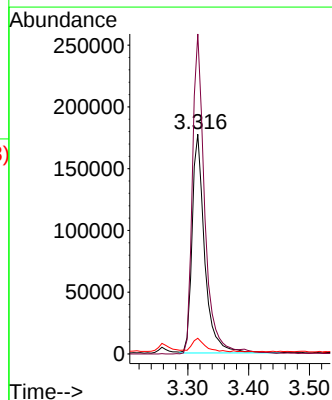
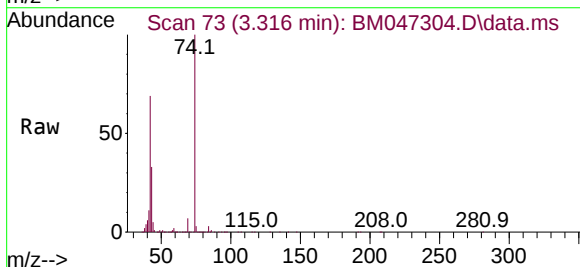
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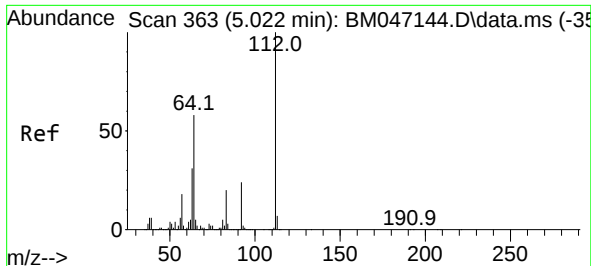
Tgt Ion: 79 Resp: 530466
 Ion Ratio Lower Upper
 79 100
 52 61.0 51.2 76.8
 51 31.6 26.1 39.1



#4
 n-Nitrosodimethylamine
 Concen: 37.282 ng
 RT: 3.316 min Scan# 73
 Delta R.T. -0.012 min
 Lab File: BM047304.D
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Tgt Ion: 42 Resp: 253613
 Ion Ratio Lower Upper
 42 100
 74 145.7 112.9 169.3
 44 7.2 5.3 7.9

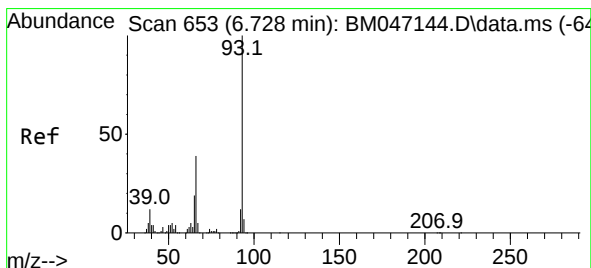
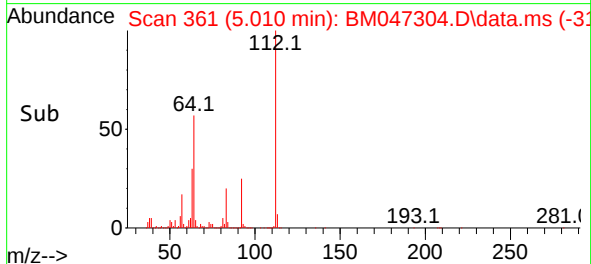
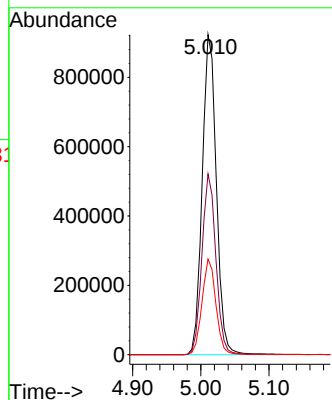
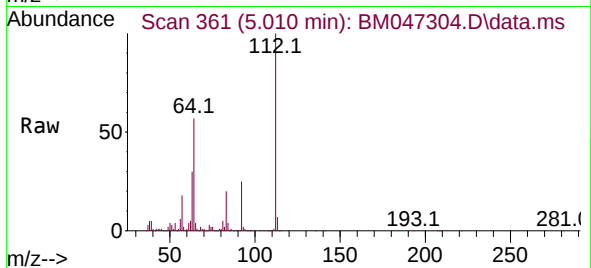




#5
2-Fluorophenol
Concen: 103.745 ng
RT: 5.010 min Scan# 361
Delta R.T. -0.012 min
Lab File: BM047304.D
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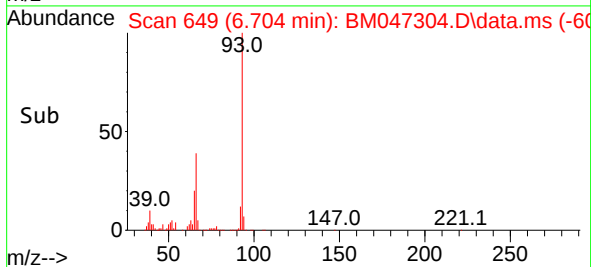
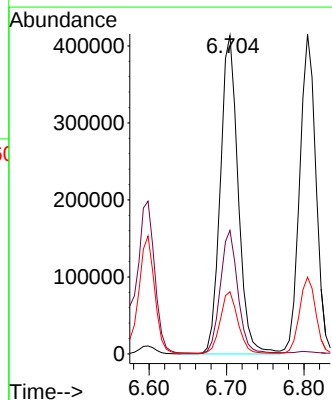
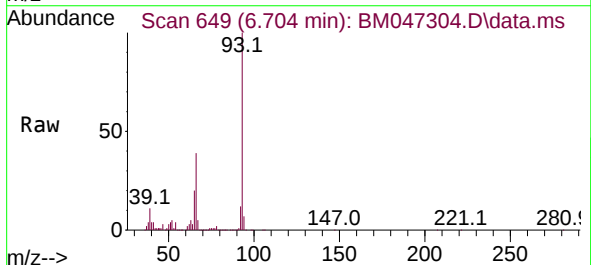
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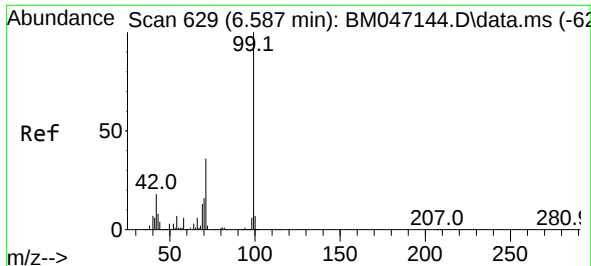
Tgt Ion:112 Resp: 1329487
Ion Ratio Lower Upper
112 100
64 56.5 46.7 70.1
63 29.9 24.8 37.2



#6
Aniline
Concen: 39.668 ng
RT: 6.704 min Scan# 649
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 93 Resp: 662065
Ion Ratio Lower Upper
93 100
66 38.8 31.4 47.2
65 19.6 15.6 23.4



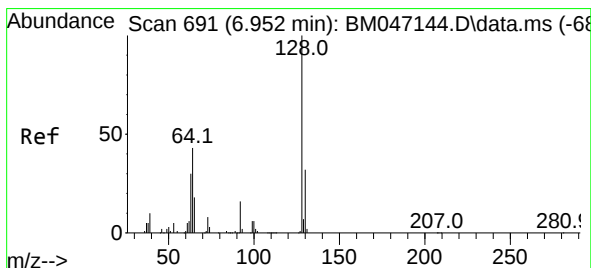
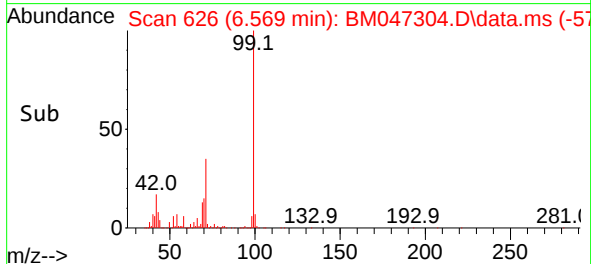
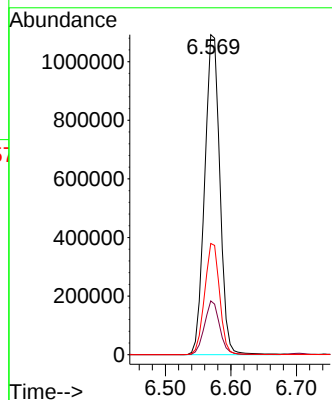
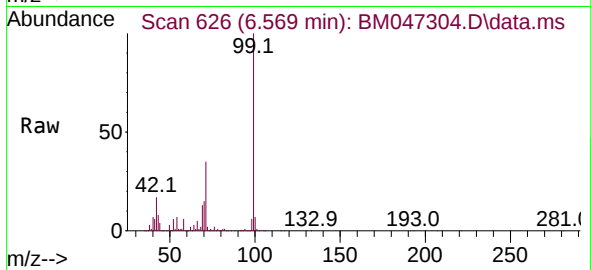


#7
Phenol-d6
Concen: 99.761 ng
RT: 6.569 min Scan# 61
Delta R.T. -0.018 min
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Tgt Ion: 99 Resp: 1761569

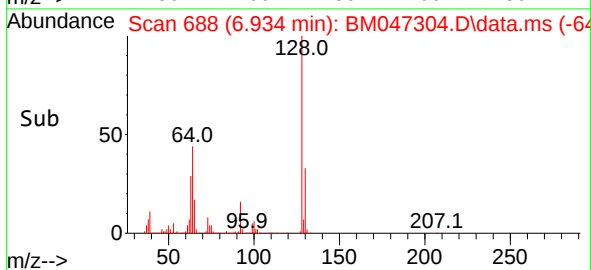
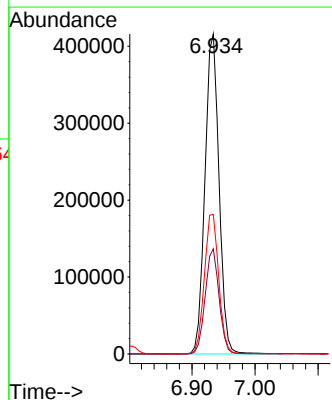
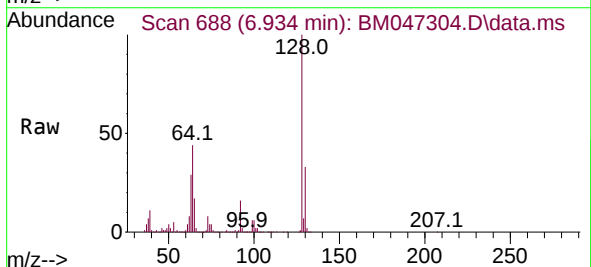
Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.1	21.1
71	34.8	28.5	42.7

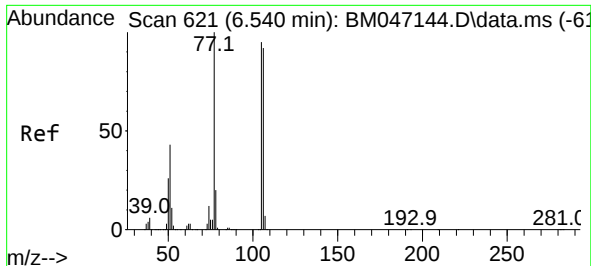


#8
2-Chlorophenol
Concen: 46.163 ng
RT: 6.934 min Scan# 688
Delta R.T. -0.018 min
Lab File: BM047304.D
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Tgt Ion: 128 Resp: 645214

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.1	52.1
64	43.6	26.6	66.6

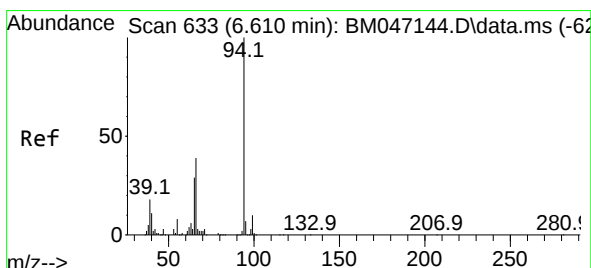
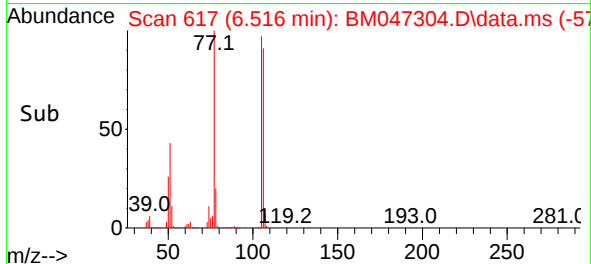
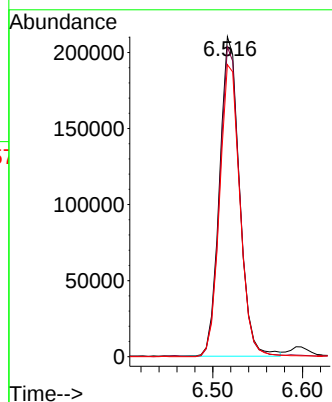
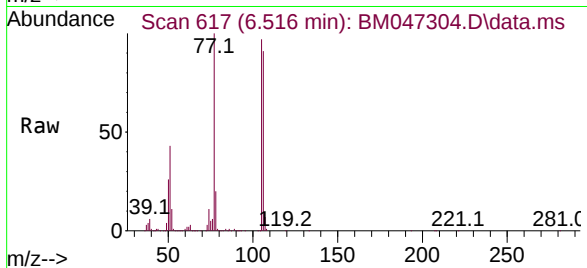




#9
Benzaldehyde
Concen: 32.561 ng
RT: 6.516 min Scan# 617
Delta R.T. -0.024 min
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Acq: 21 Aug 2024 19:05

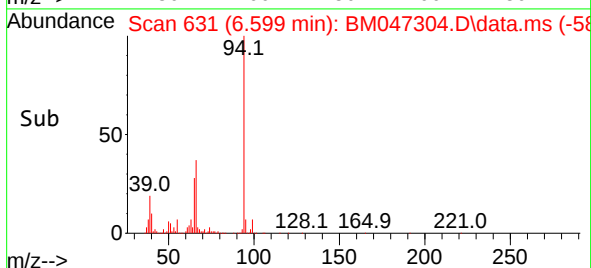
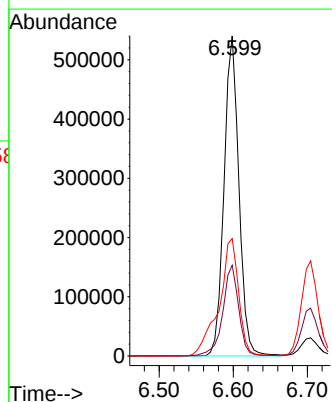
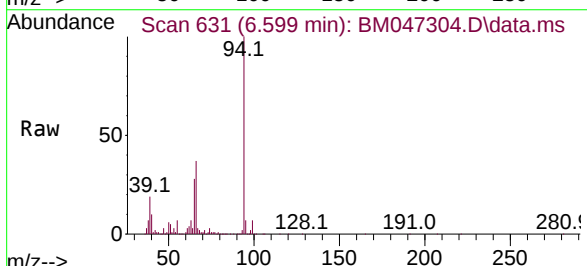
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

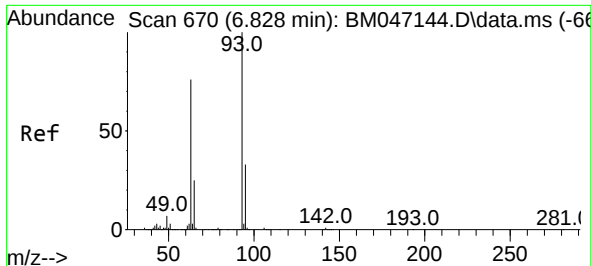
Tgt Ion: 77 Resp: 324774
Ion Ratio Lower Upper
77 100
105 96.8 74.5 114.5
106 91.2 72.3 112.3



#10
Phenol
Concen: 42.791 ng
RT: 6.599 min Scan# 631
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 94 Resp: 753962
Ion Ratio Lower Upper
94 100
65 28.4 9.0 49.0
66 36.7 18.9 58.9





#11

bis(2-Chloroethyl)ether

Concen: 40.292 ng

RT: 6.804 min Scan# 60

Delta R.T. -0.024 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

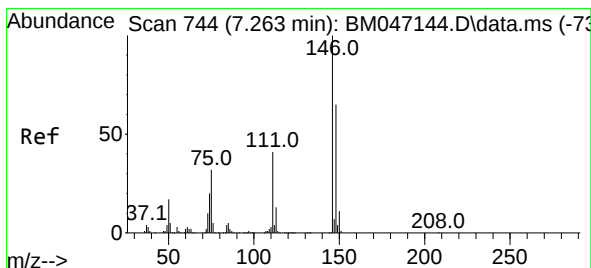
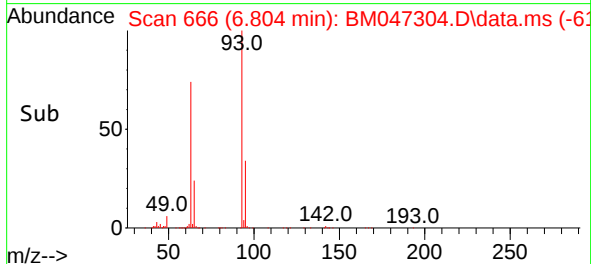
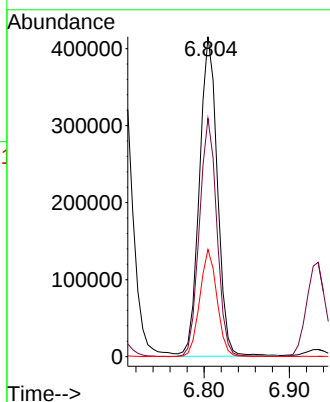
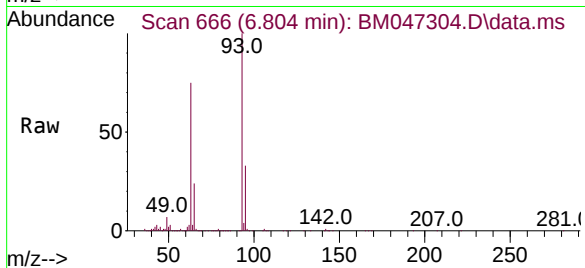
Tgt Ion: 93 Resp: 607967

Ion Ratio Lower Upper

93 100

63 74.5 55.8 95.8

95 33.5 12.7 52.7



#12

1,3-Dichlorobenzene

Concen: 42.745 ng

RT: 7.240 min Scan# 740

Delta R.T. -0.024 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

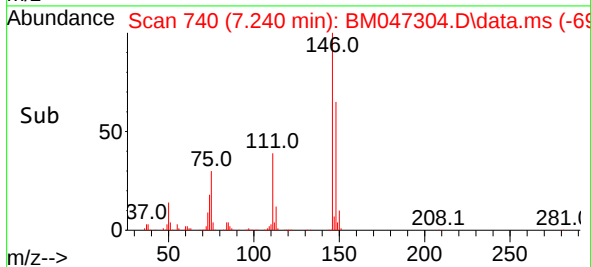
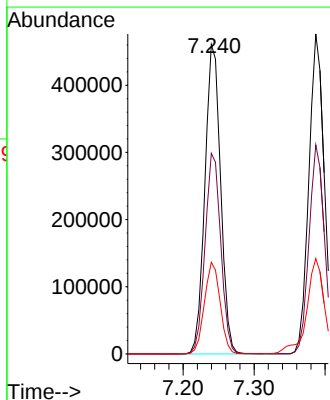
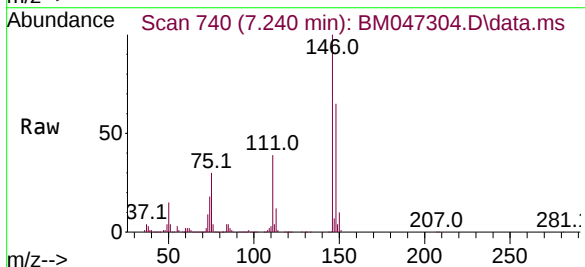
Tgt Ion: 146 Resp: 709960

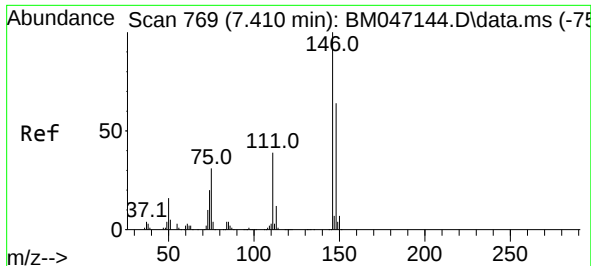
Ion Ratio Lower Upper

146 100

148 64.8 52.3 78.5

75 29.6 25.8 38.6

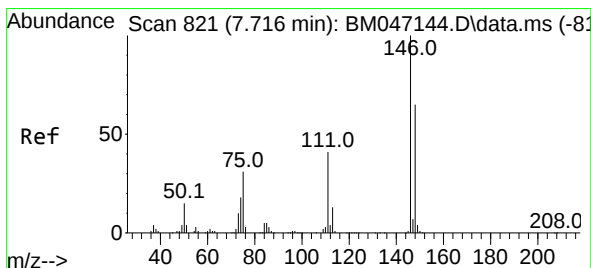
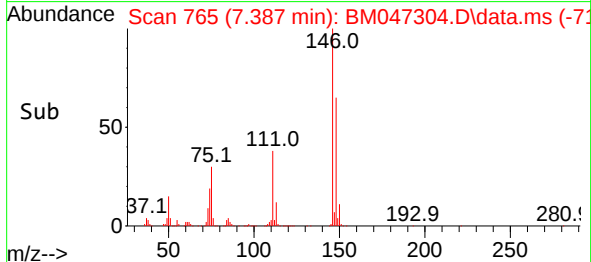
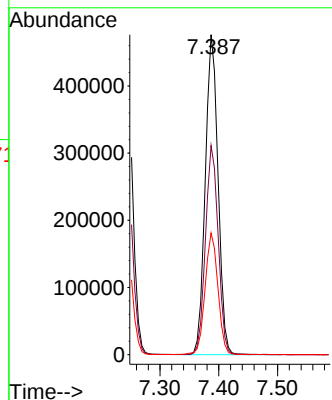
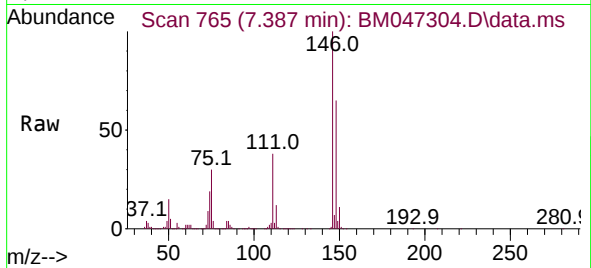




#13
1,4-Dichlorobenzene
Concen: 42.606 ng
RT: 7.387 min Scan# 71
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

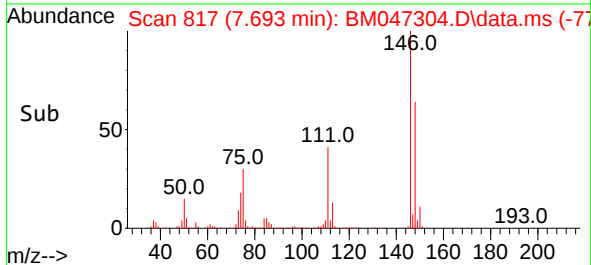
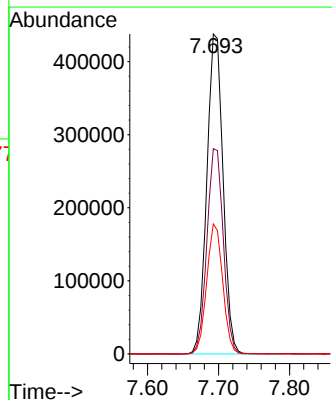
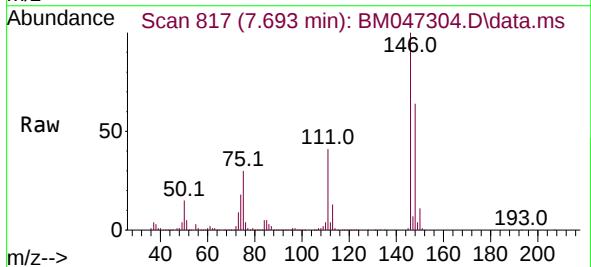
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

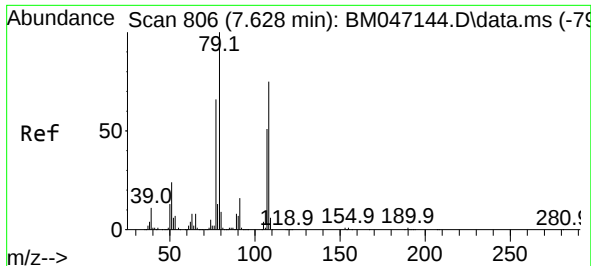
Tgt Ion:146 Resp: 716483
Ion Ratio Lower Upper
146 100
148 65.3 51.4 77.2
111 38.1 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 43.841 ng
RT: 7.693 min Scan# 817
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:146 Resp: 695608
Ion Ratio Lower Upper
146 100
148 64.2 51.8 77.8
111 40.7 33.3 49.9

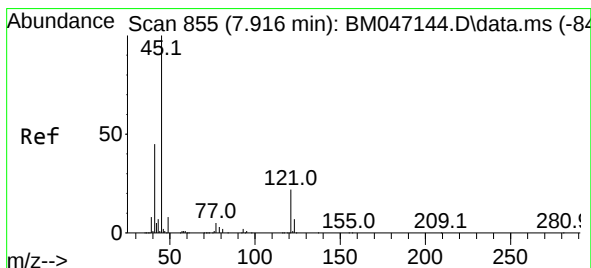
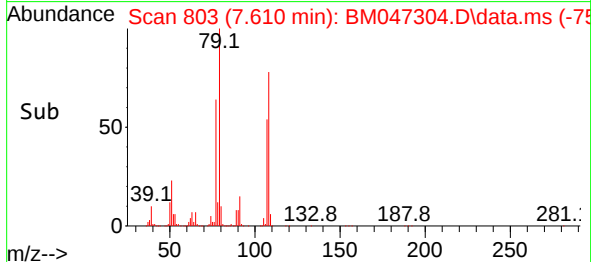
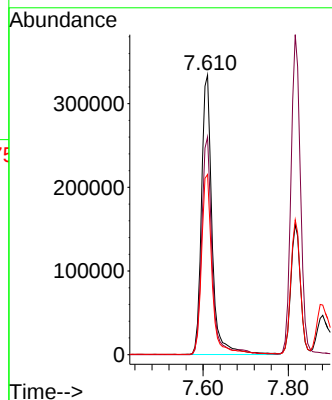
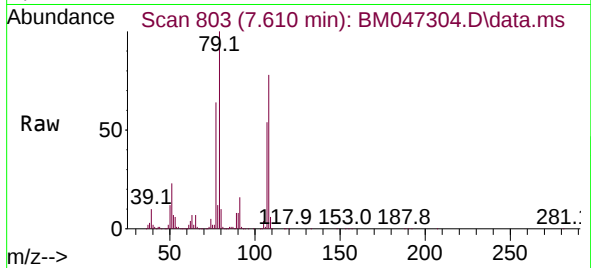




#15
Benzyl Alcohol
Concen: 45.646 ng
RT: 7.610 min Scan# 803
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

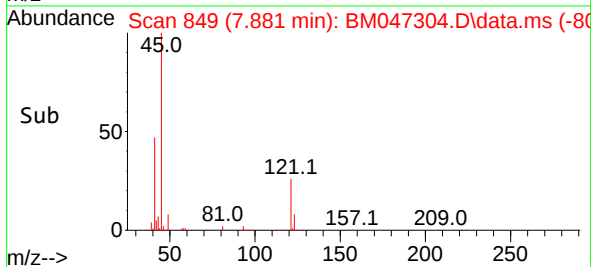
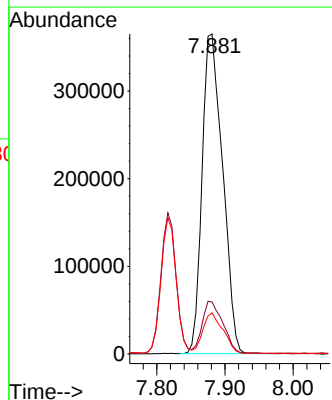
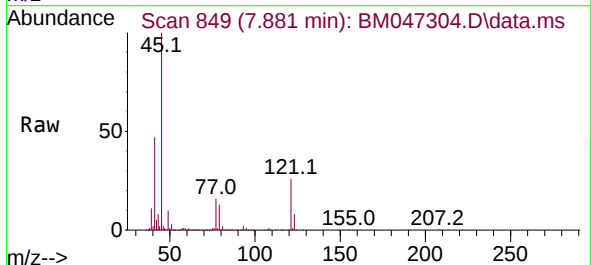
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

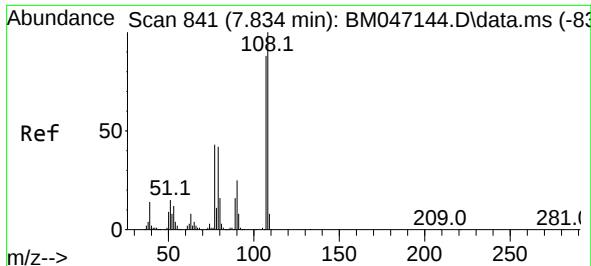
Tgt Ion: 79 Resp: 573640
Ion Ratio Lower Upper
79 100
108 77.8 59.7 89.5
77 64.4 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.456 ng
RT: 7.881 min Scan# 849
Delta R.T. -0.035 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 45 Resp: 763953
Ion Ratio Lower Upper
45 100
77 16.2 0.0 35.6
79 12.9 0.0 32.4

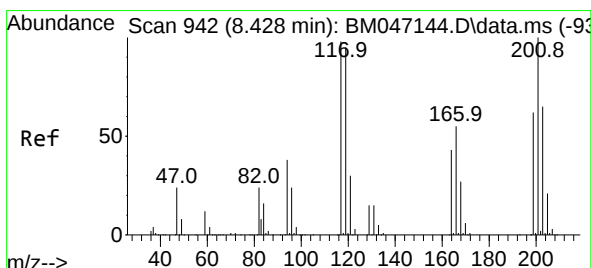
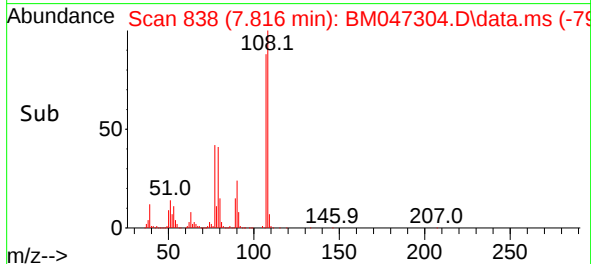
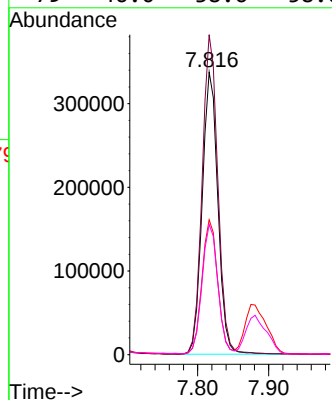
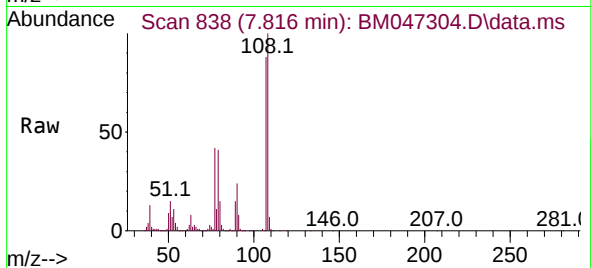




#17
2-Methylphenol
Concen: 44.161 ng
RT: 7.816 min Scan# 81
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

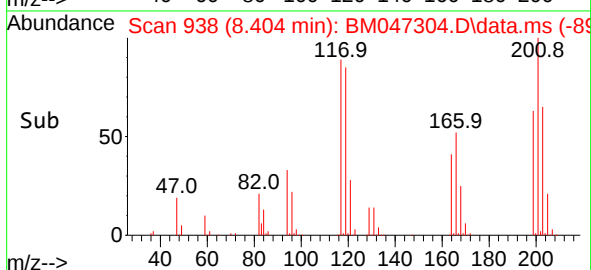
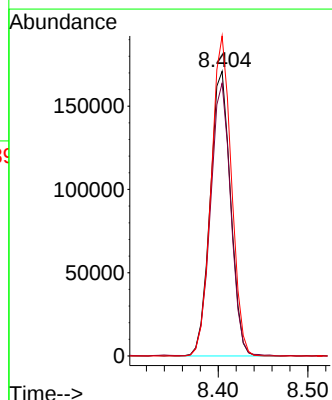
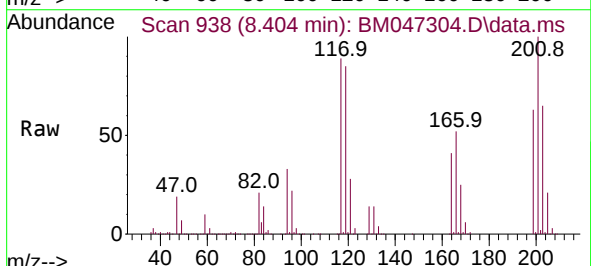
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

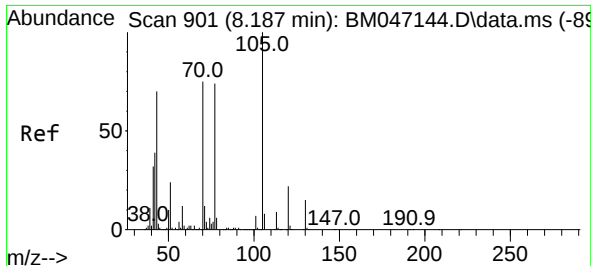
Tgt Ion:	107	Resp:	519104
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	135.8
77	47.7	39.3	58.9
79	46.0	38.6	58.0



#18
Hexachloroethane
Concen: 41.403 ng
RT: 8.404 min Scan# 938
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:	117	Resp:	269697
Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.0	115.4
201	112.4	81.3	121.9



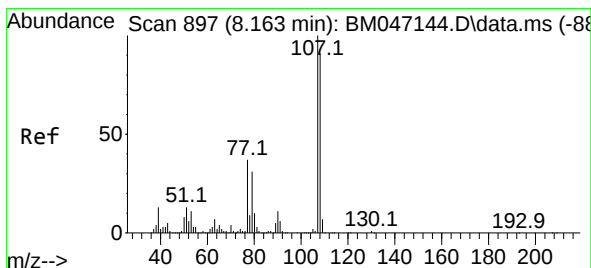
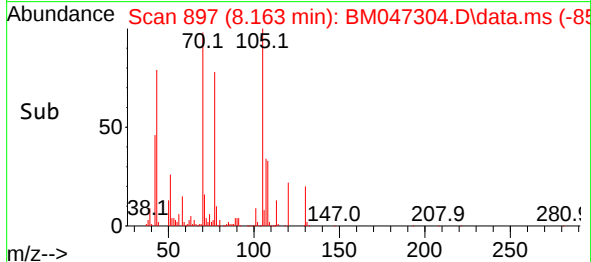
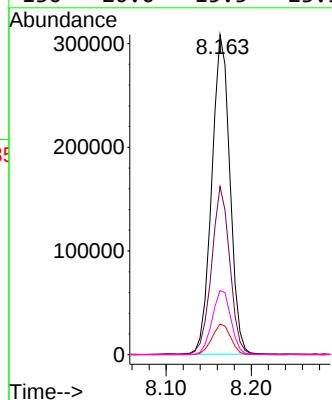
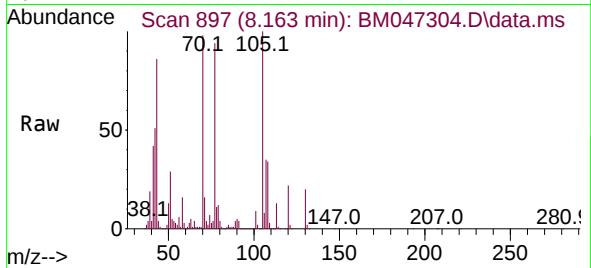


#19
n-Nitroso-di-n-propylamine
Concen: 38.280 ng
RT: 8.163 min Scan# 897
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion: 70 Resp: 455305

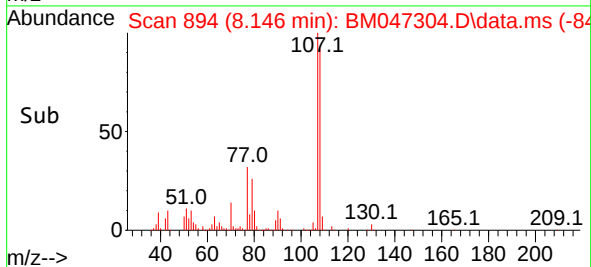
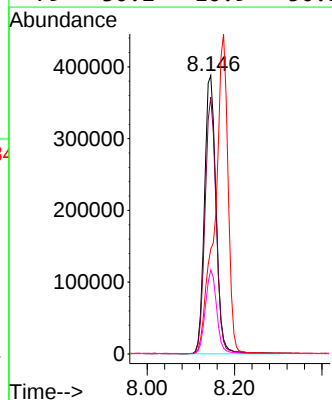
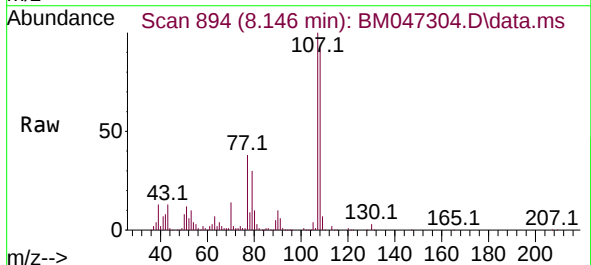
Ion	Ratio	Lower	Upper
70	100		
42	52.6	42.0	63.0
101	9.6	7.2	10.8
130	20.0	15.5	23.3

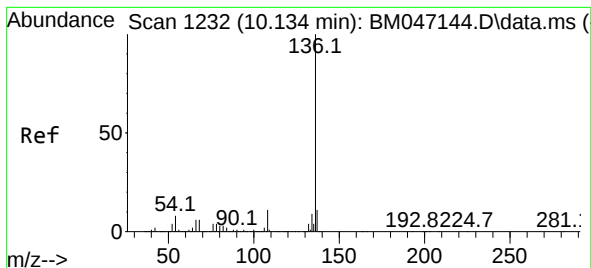


#20
3+4-Methylphenols
Concen: 43.508 ng
RT: 8.146 min Scan# 894
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 107 Resp: 714990

Ion	Ratio	Lower	Upper
107	100		
108	92.2	70.7	110.7
77	37.7	17.4	57.4
79	30.2	10.9	50.9





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.110 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

Tgt Ion:136 Resp: 885541

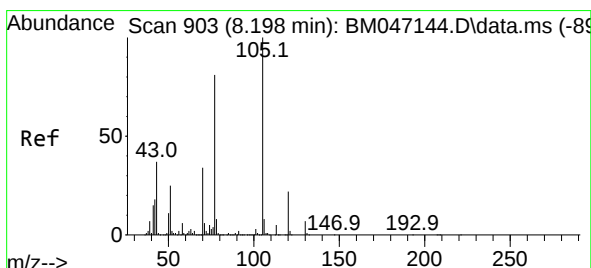
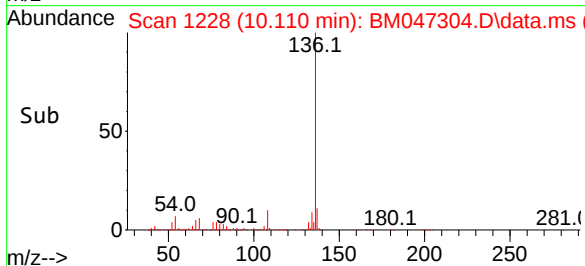
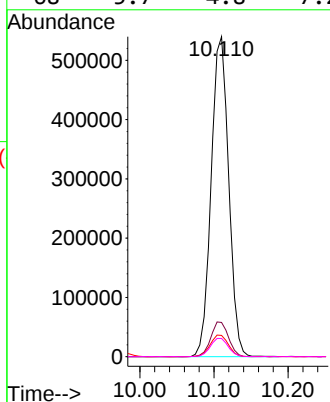
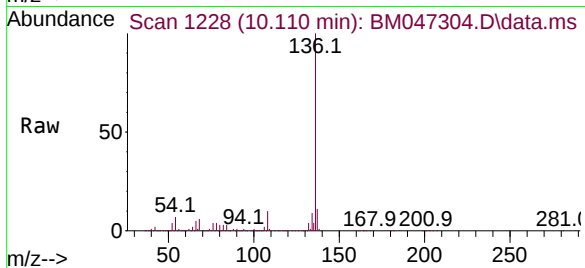
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 6.6 6.0 9.0

68 5.7 4.8 7.2



#22

Acetophenone

Concen: 41.327 ng

RT: 8.175 min Scan# 899

Delta R.T. -0.024 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Tgt Ion:105 Resp: 883394

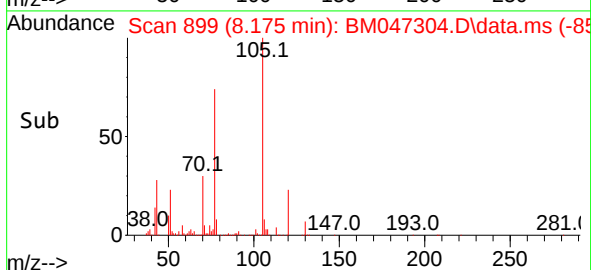
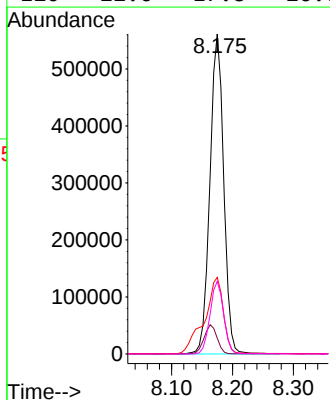
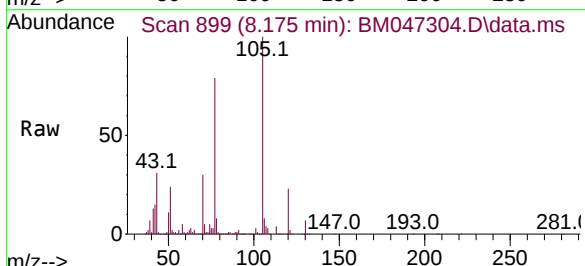
Ion Ratio Lower Upper

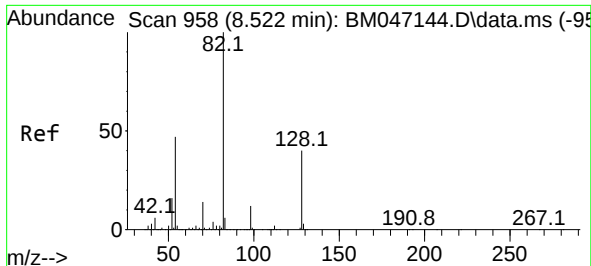
105 100

71 4.9 4.5 6.7

51 24.0 20.1 30.1

120 22.6 17.8 26.6

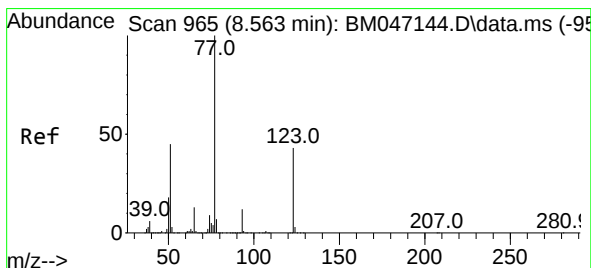
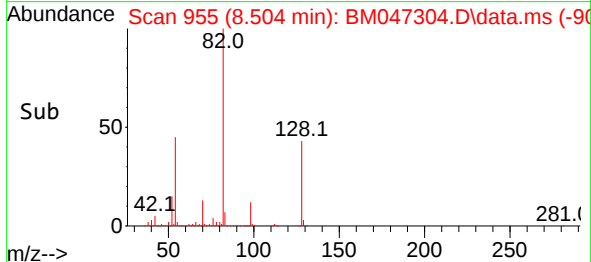
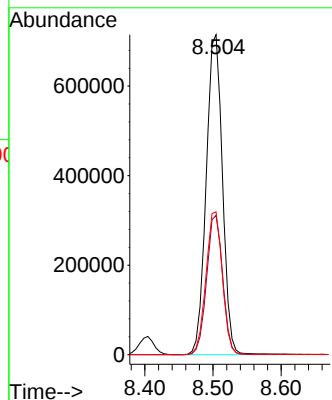
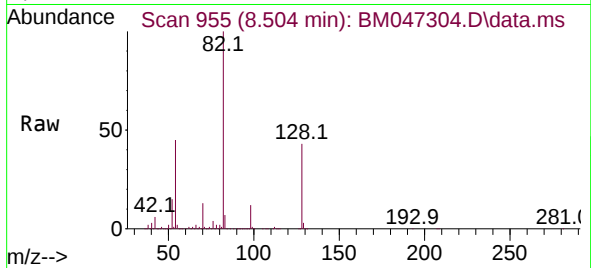




#23
Nitrobenzene-d5
Concen: 67.482 ng
RT: 8.504 min Scan# 91
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

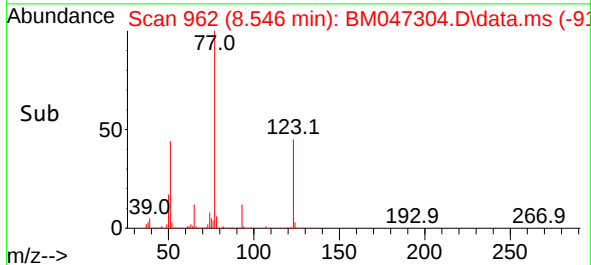
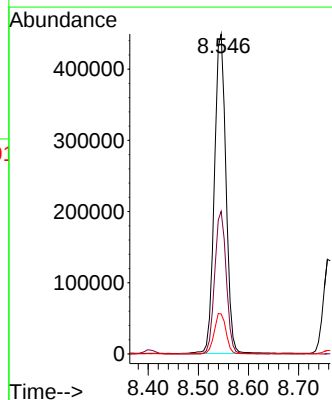
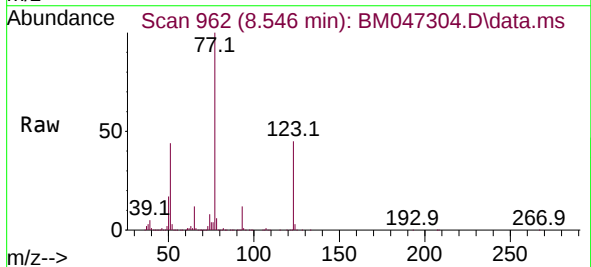
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

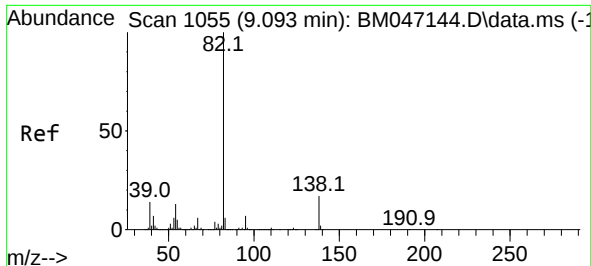
Tgt Ion: 82 Resp: 1186779
Ion Ratio Lower Upper
82 100
128 43.5 32.3 48.5
54 44.7 37.4 56.2



#24
Nitrobenzene
Concen: 40.591 ng
RT: 8.546 min Scan# 962
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 77 Resp: 718821
Ion Ratio Lower Upper
77 100
123 44.5 34.0 51.0
65 12.5 10.5 15.7





#25

Isophorone

Concen: 42.794 ng

RT: 9.069 min Scan# 1051

Delta R.T. -0.024 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

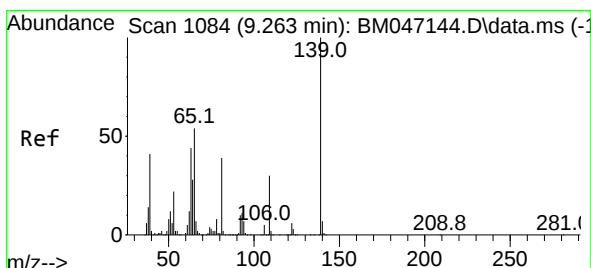
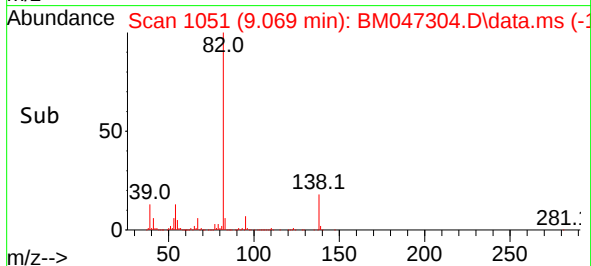
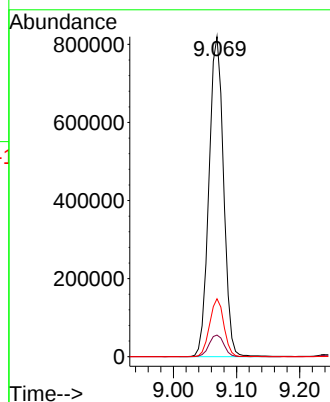
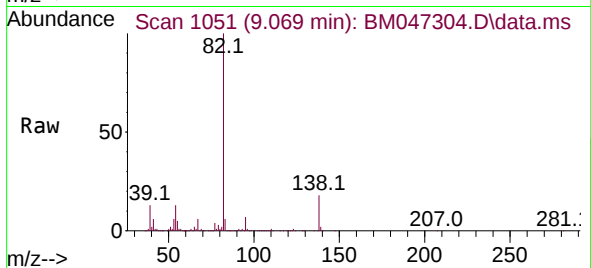
Tgt Ion: 82 Resp: 1310386

Ion Ratio Lower Upper

82 100

95 6.7 5.5 8.3

138 18.1 13.5 20.3



#26

2-Nitrophenol

Concen: 47.264 ng

RT: 9.245 min Scan# 1081

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

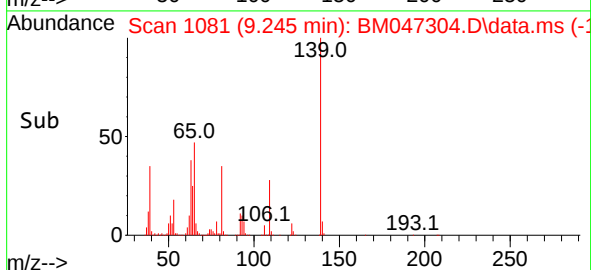
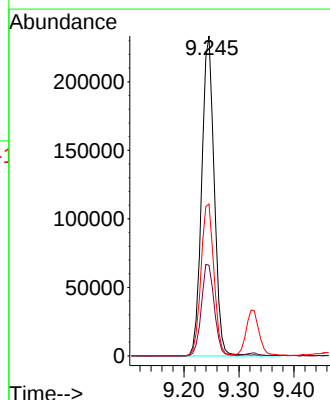
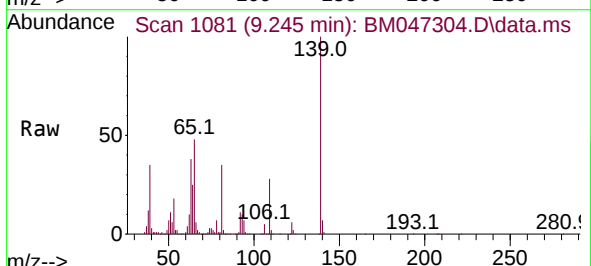
Tgt Ion:139 Resp: 370671

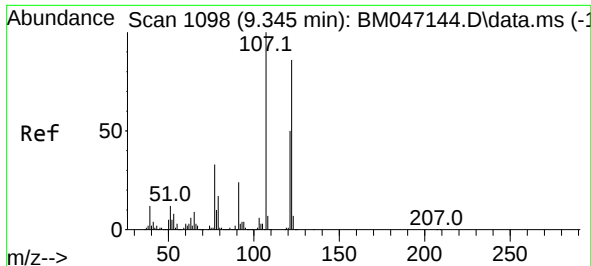
Ion Ratio Lower Upper

139 100

109 28.4 24.4 36.6

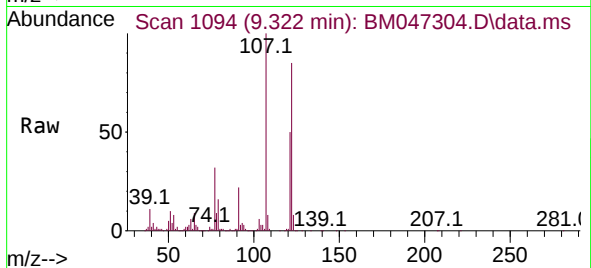
65 47.5 43.0 64.6



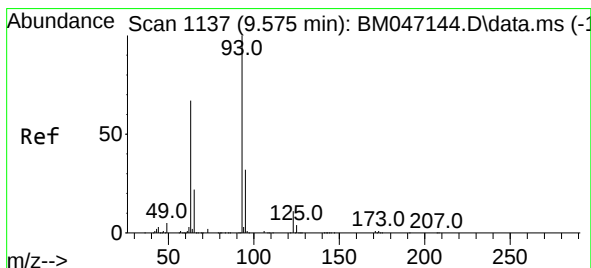
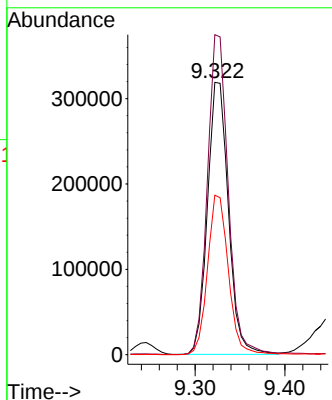
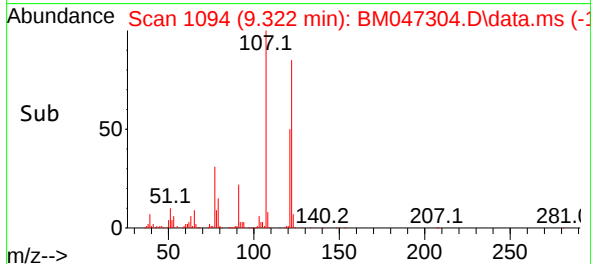


#27
2,4-Dimethylphenol
Concen: 56.367 ng
RT: 9.322 min Scan# 1094
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

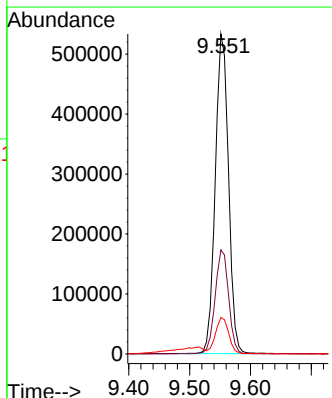
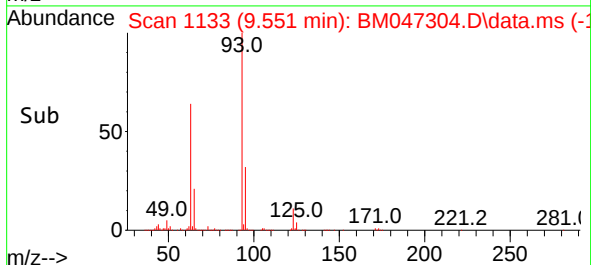
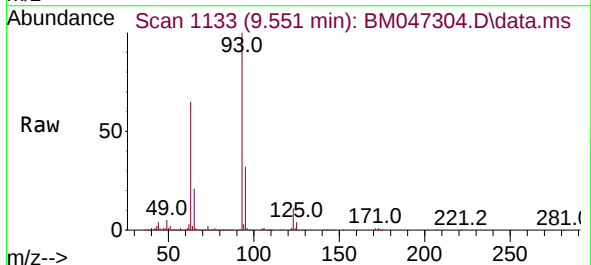


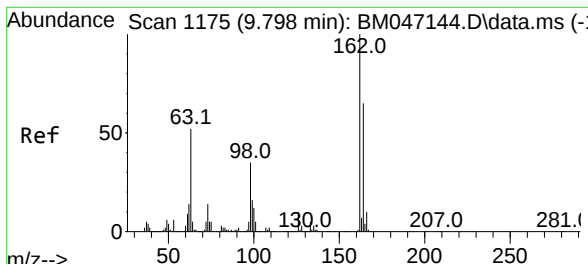
Tgt Ion:122 Resp: 517823
Ion Ratio Lower Upper
122 100
107 117.5 92.8 139.2
121 58.6 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 41.566 ng
RT: 9.551 min Scan# 1133
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 93 Resp: 800879
Ion Ratio Lower Upper
93 100
95 32.5 25.8 38.8
123 11.4 9.0 13.4

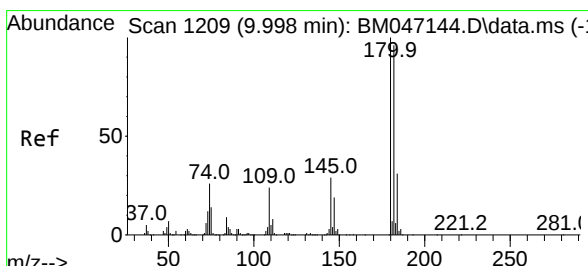
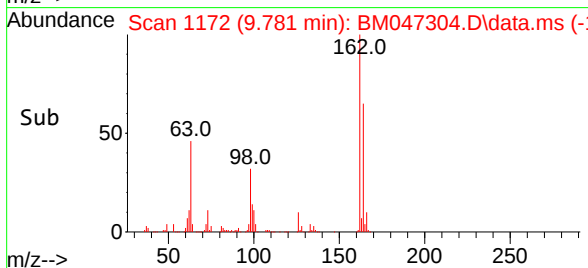
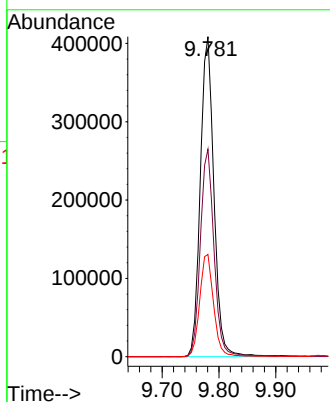
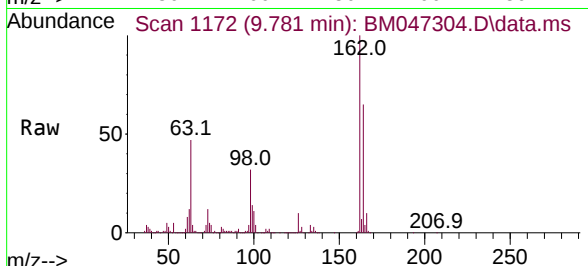




#29
 2,4-Dichlorophenol
 Concen: 49.917 ng
 RT: 9.781 min Scan# 1172
 Delta R.T. -0.018 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

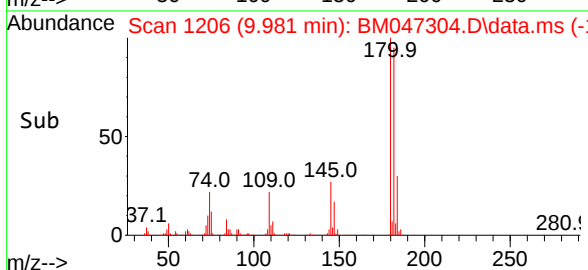
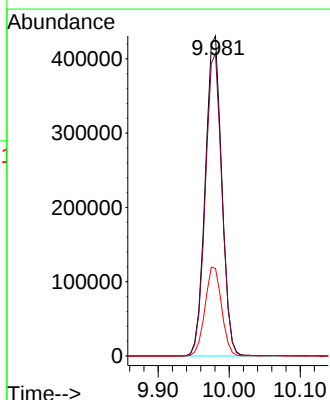
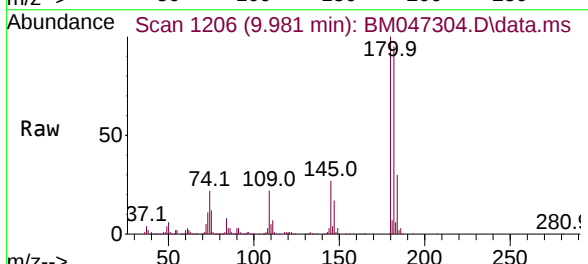
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

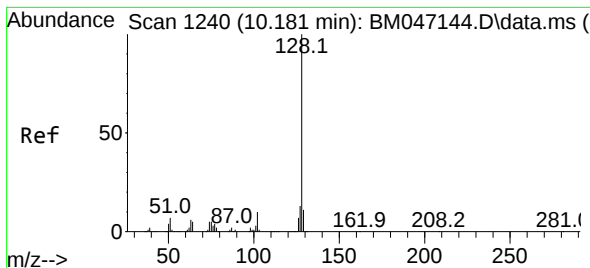
Tgt Ion:	162	Resp:	680411
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.7	84.7
98	32.0	14.9	54.9



#30
 1,2,4-Trichlorobenzene
 Concen: 45.072 ng
 RT: 9.981 min Scan# 1206
 Delta R.T. -0.018 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

Tgt Ion:	180	Resp:	695269
Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.6	115.0
145	27.3	23.4	35.2

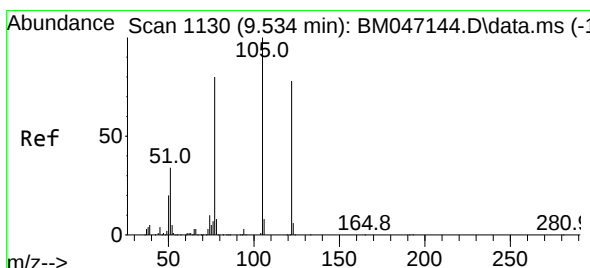
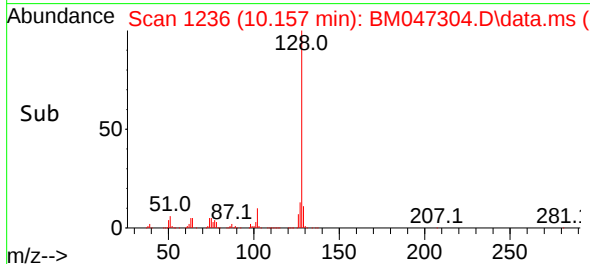
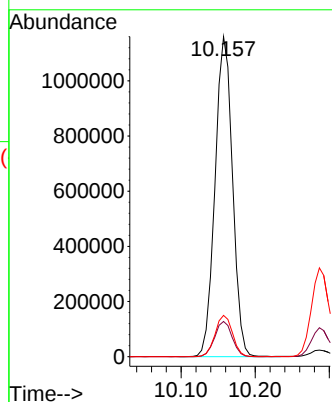
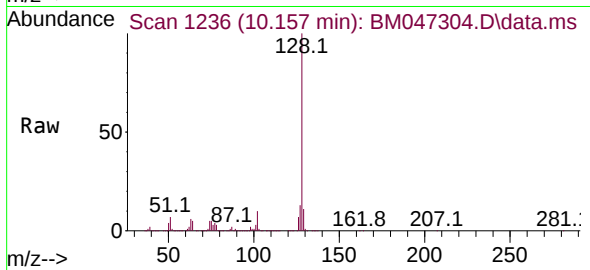




#31
Naphthalene
Concen: 43.067 ng
RT: 10.157 min Scan# 1127
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

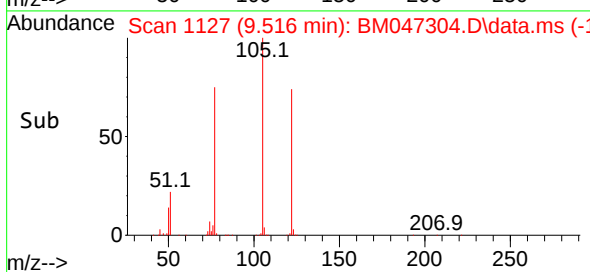
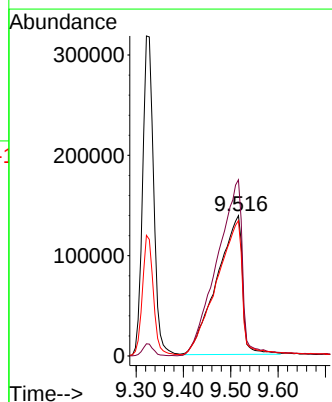
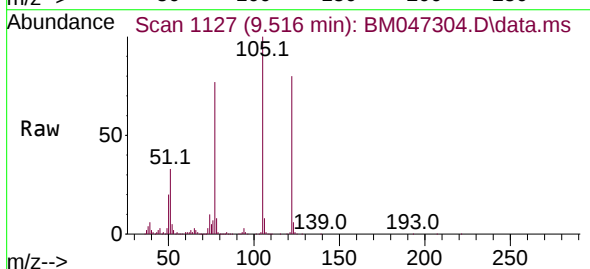
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

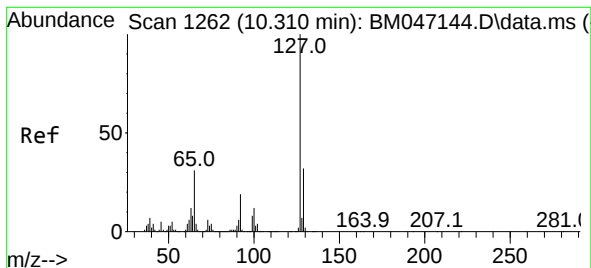
Tgt Ion:128 Resp: 1899863
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 12.9 10.2 15.4



#32
Benzoic acid
Concen: 48.830 ng
RT: 9.516 min Scan# 1127
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:122 Resp: 521173
Ion Ratio Lower Upper
122 100
105 125.5 107.1 147.1
77 96.4 82.1 122.1

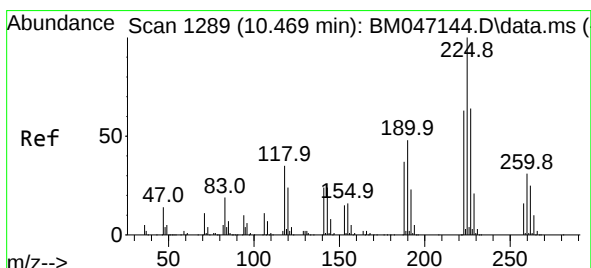
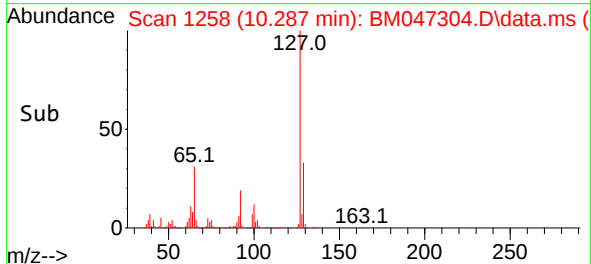
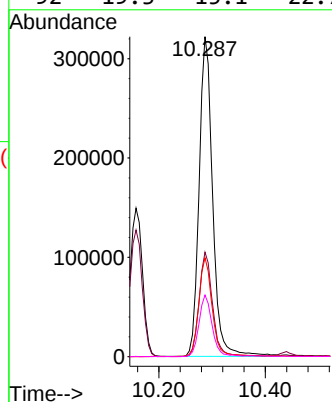
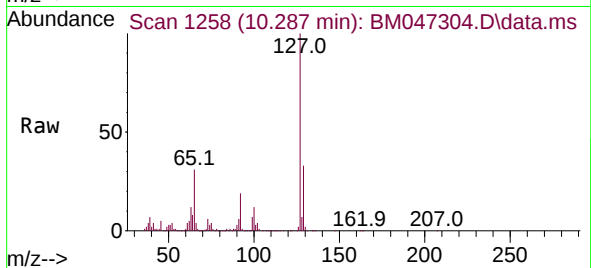




#33
4-Chloroaniline
Concen: 33.486 ng
RT: 10.287 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

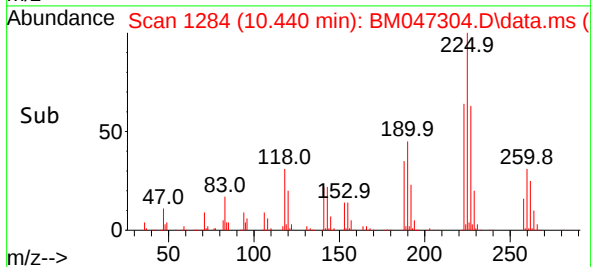
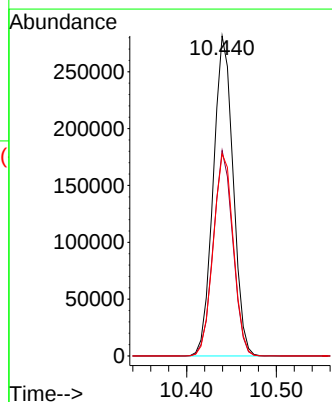
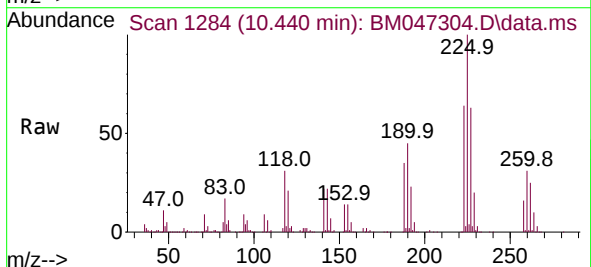
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

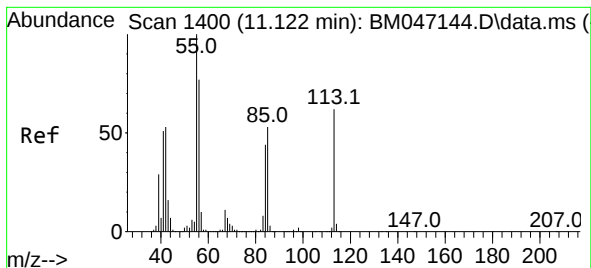
Tgt Ion:	127	Resp:	568067
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.8	38.8
65	30.9	24.9	37.3
92	19.3	15.1	22.7



#34
Hexachlorobutadiene
Concen: 47.961 ng
RT: 10.440 min Scan# 1284
Delta R.T. -0.029 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:	225	Resp:	433034
Ion	Ratio	Lower	Upper
225	100		
223	64.2	50.2	75.2
227	63.2	51.4	77.0

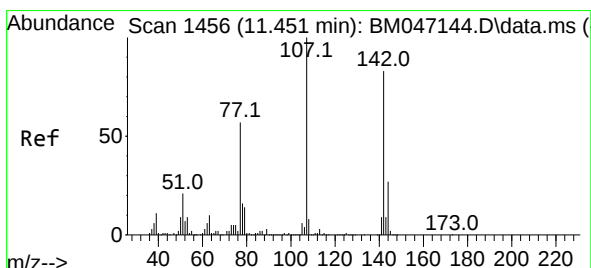
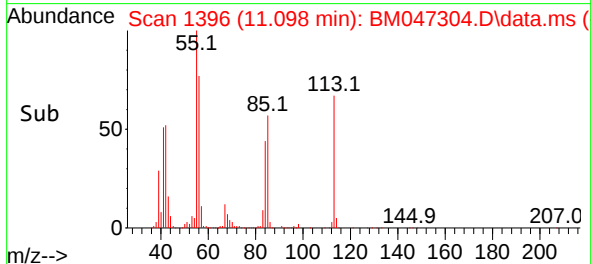
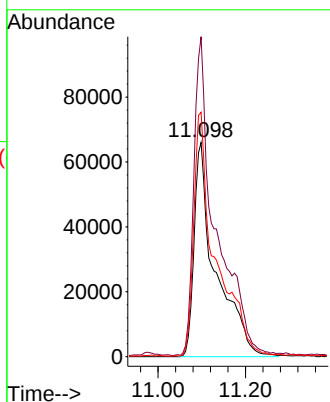
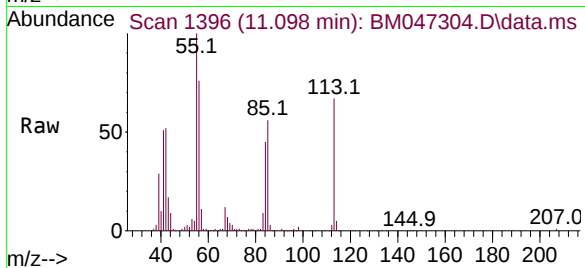




#35
 Caprolactam
 Concen: 47.682 ng
 RT: 11.098 min Scan# 113
 Delta R.T. -0.024 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

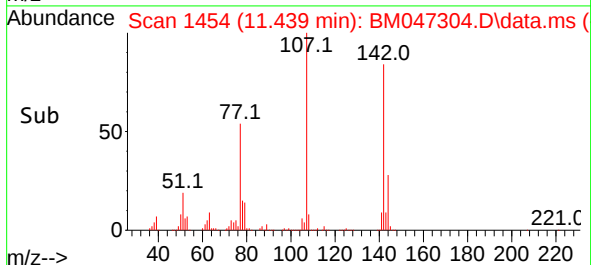
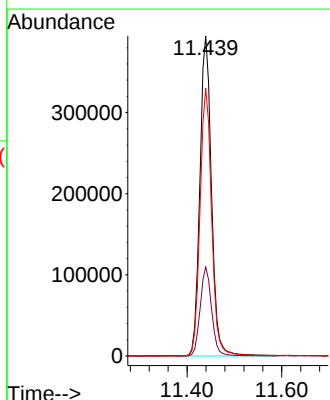
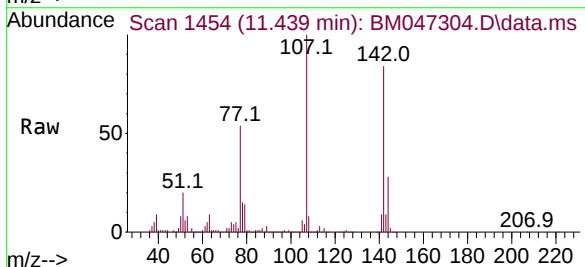
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

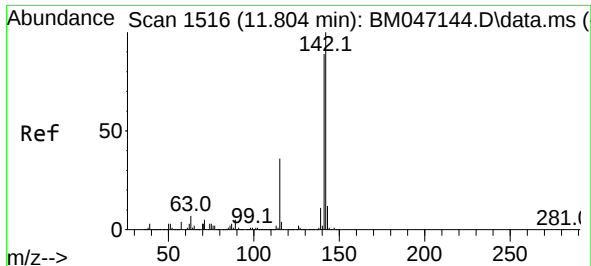
Tgt Ion:113 Resp: 225716
 Ion Ratio Lower Upper
 113 100
 55 149.3 140.5 180.5
 56 114.1 103.6 143.6



#36
 4-Chloro-3-methylphenol
 Concen: 46.237 ng
 RT: 11.439 min Scan# 1454
 Delta R.T. -0.012 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

Tgt Ion:107 Resp: 671218
 Ion Ratio Lower Upper
 107 100
 144 27.8 21.8 32.6
 142 83.7 66.8 100.2

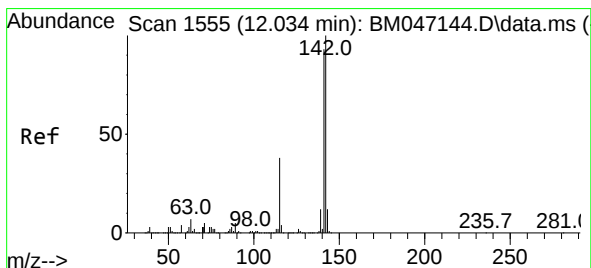
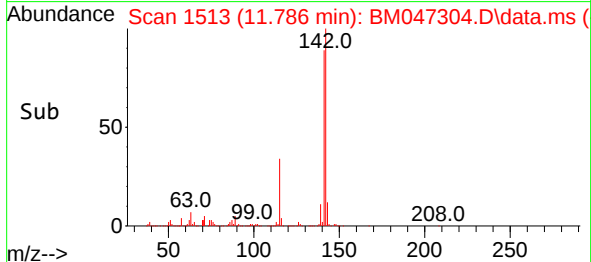
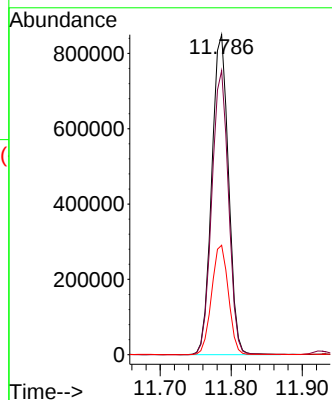
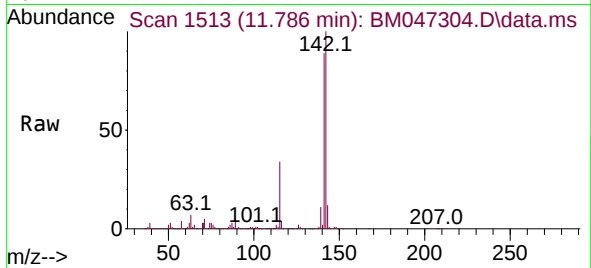




#37
2-Methylnaphthalene
Concen: 44.273 ng
RT: 11.786 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

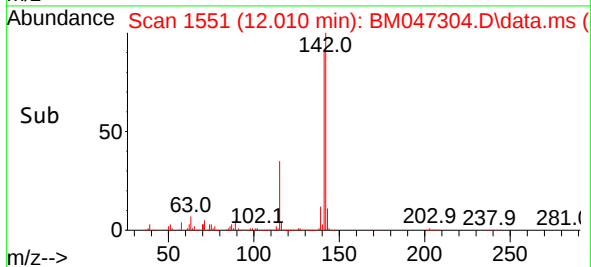
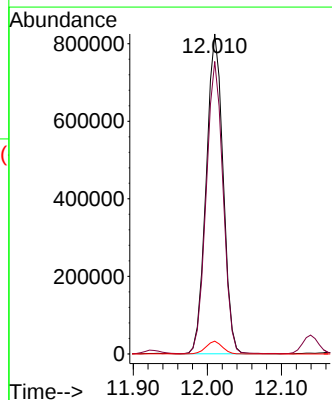
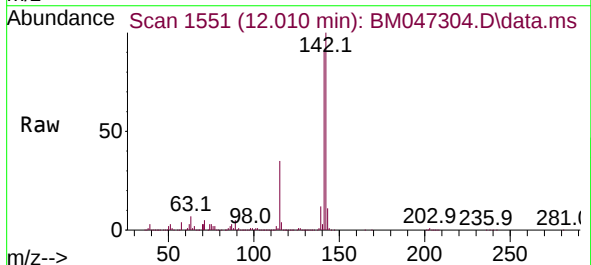
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

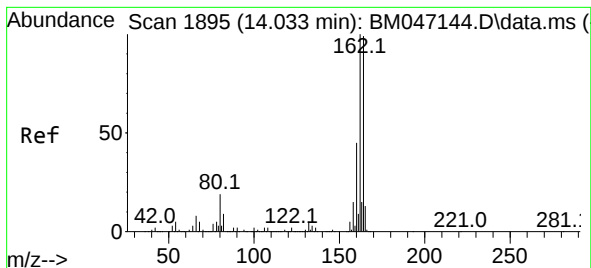
Tgt Ion:142 Resp: 1390601
Ion Ratio Lower Upper
142 100
141 88.8 70.9 106.3
115 34.2 28.7 43.1



#38
1-Methylnaphthalene
Concen: 42.010 ng
RT: 12.010 min Scan# 1551
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:142 Resp: 1304095
Ion Ratio Lower Upper
142 100
141 91.4 74.6 111.8
116 4.0 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.016 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

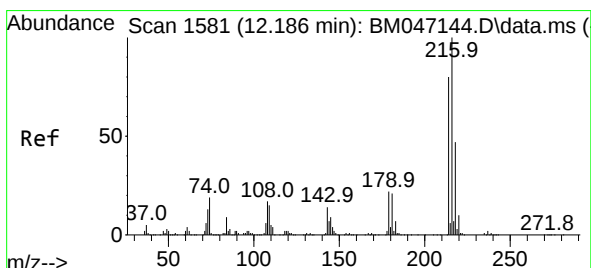
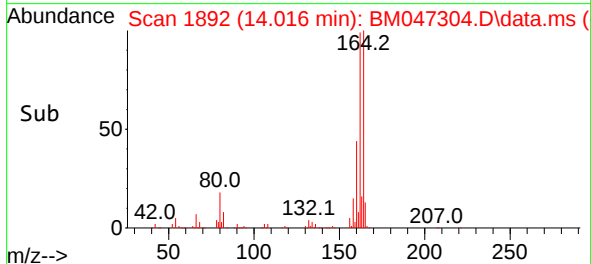
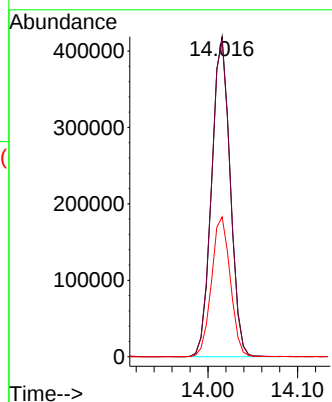
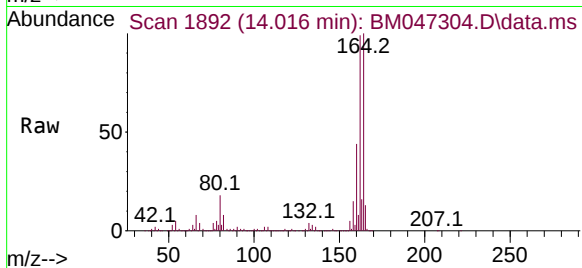
Tgt Ion:164 Resp: 598772

Ion Ratio Lower Upper

164 100

162 99.0 80.7 121.1

160 43.7 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 47.947 ng

RT: 12.169 min Scan# 1578

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Tgt Ion:216 Resp: 783053

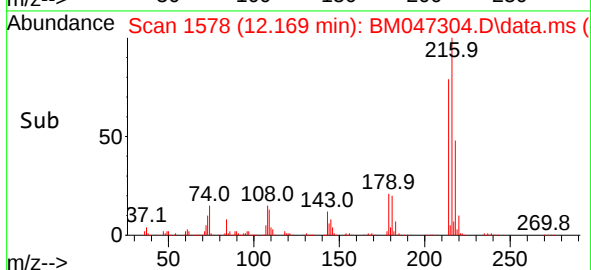
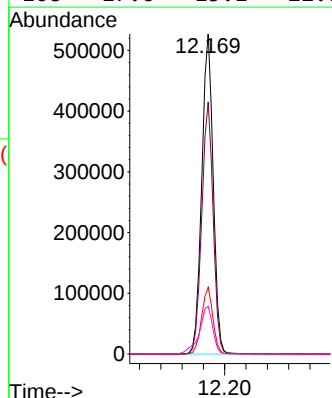
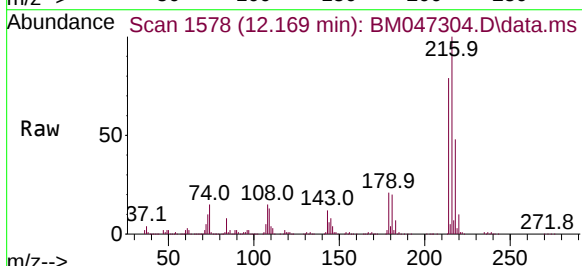
Ion Ratio Lower Upper

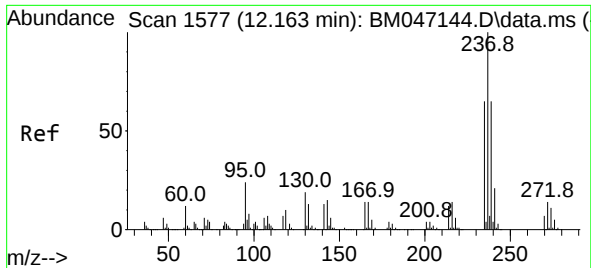
216 100

214 78.5 63.4 95.2

179 20.6 17.6 26.4

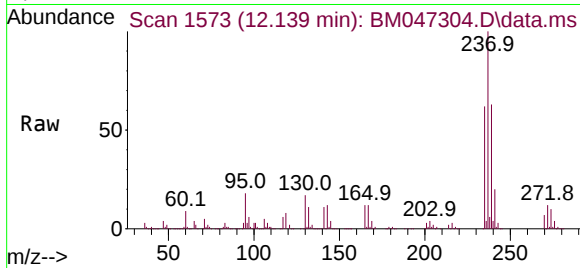
108 17.6 15.1 22.7



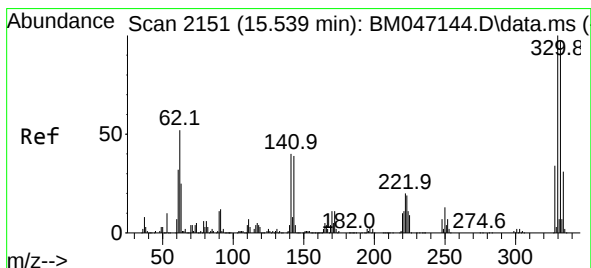
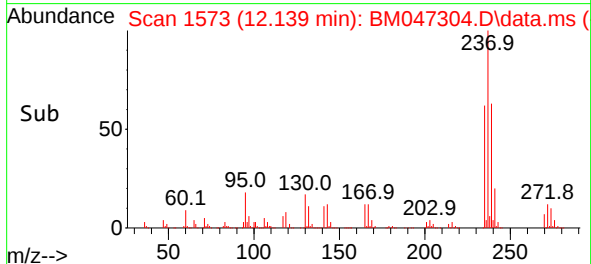
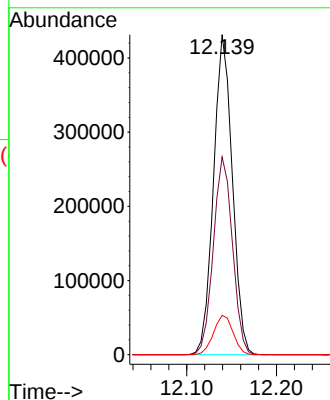


#41
Hexachlorocyclopentadiene
Concen: 110.128 ng
RT: 12.139 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

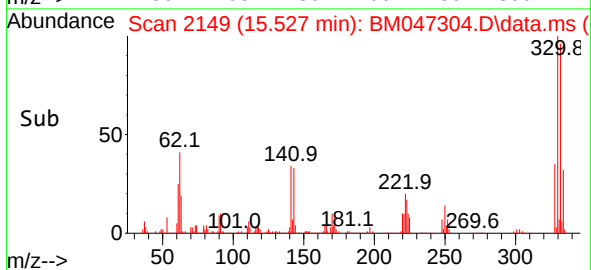
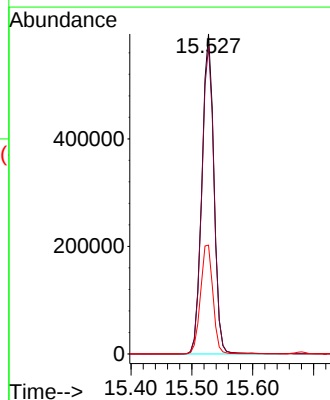
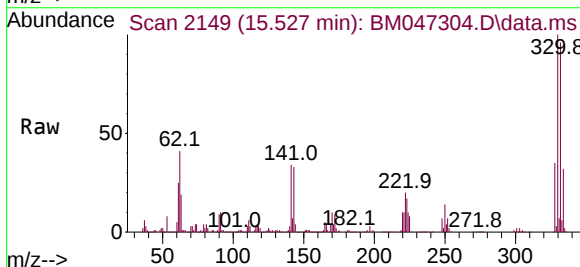


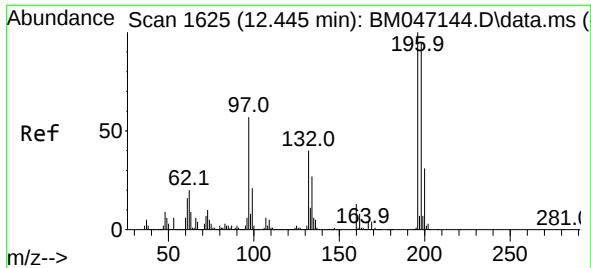
Tgt Ion:237 Resp: 628042
Ion Ratio Lower Upper
237 100
235 61.8 44.8 84.8
272 12.3 0.0 33.5



#42
2,4,6-Tribromophenol
Concen: 117.608 ng
RT: 15.527 min Scan# 2149
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:330 Resp: 816533
Ion Ratio Lower Upper
330 100
332 97.4 77.4 116.2
141 35.1 31.6 47.4

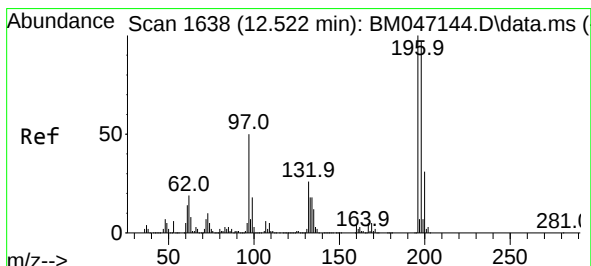
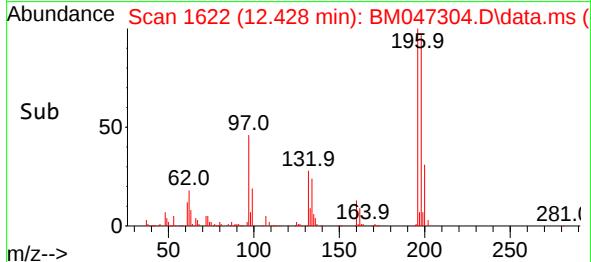
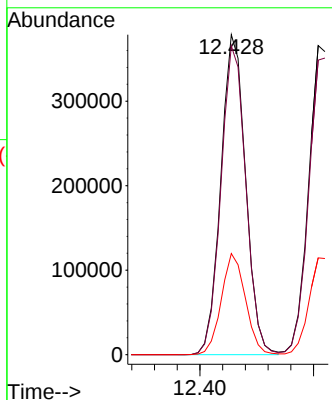
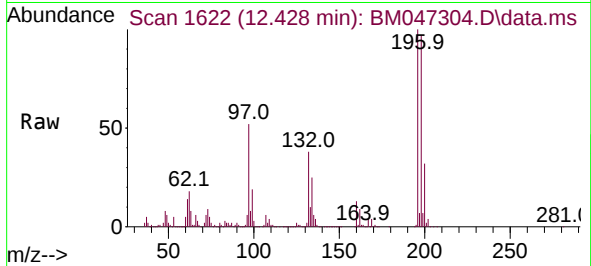




#43
2,4,6-Trichlorophenol
Concen: 49.407 ng
RT: 12.428 min Scan# 1622
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

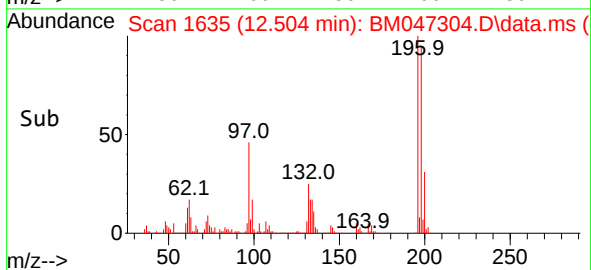
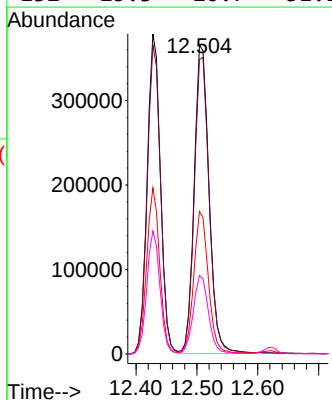
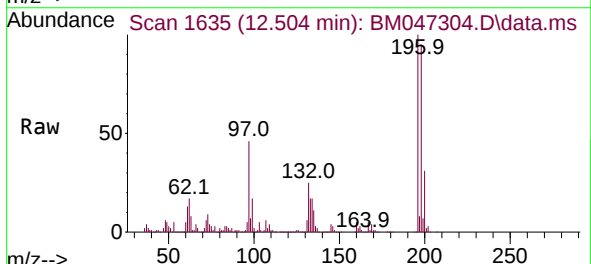
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

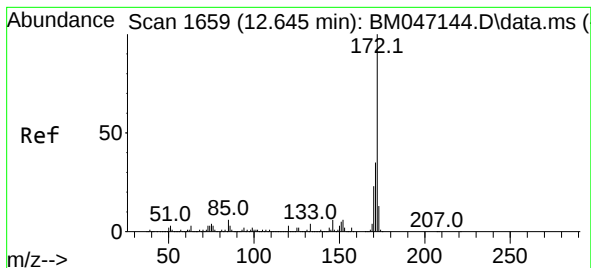
Tgt Ion:196 Resp: 573523
Ion Ratio Lower Upper
196 100
198 96.5 75.6 113.4
200 31.6 24.6 37.0



#44
2,4,5-Trichlorophenol
Concen: 48.296 ng
RT: 12.504 min Scan# 1635
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:196 Resp: 622461
Ion Ratio Lower Upper
196 100
198 95.3 77.7 116.5
97 46.1 39.8 59.8
132 25.3 20.7 31.1

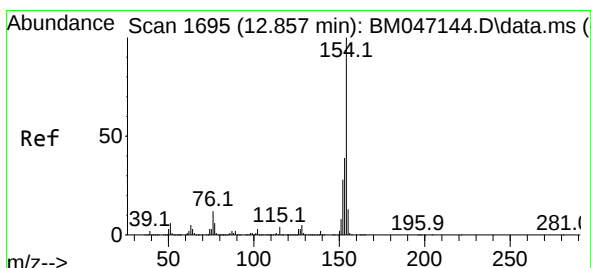
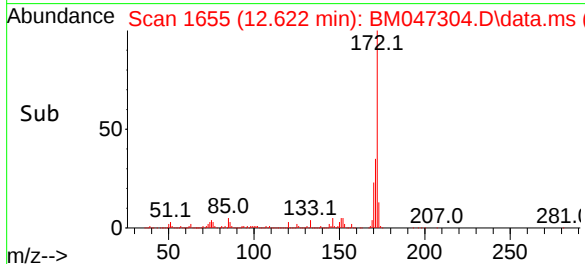
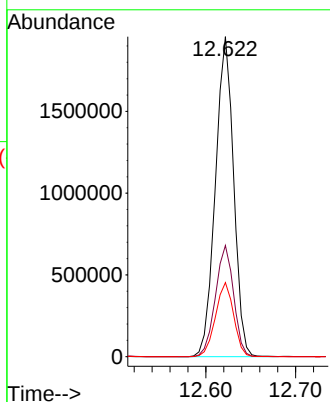
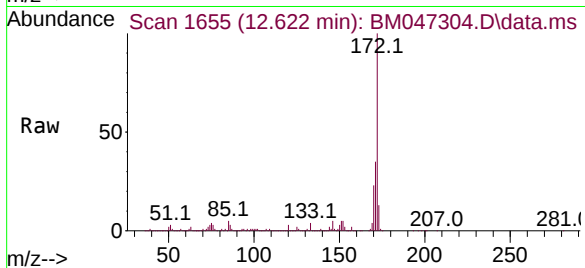




#45
2-Fluorobiphenyl
Concen: 71.038 ng
RT: 12.622 min Scan# 1655
Delta R.T. -0.023 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

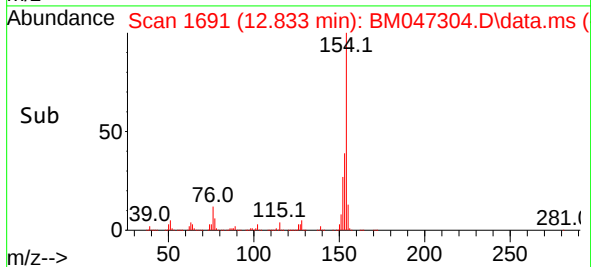
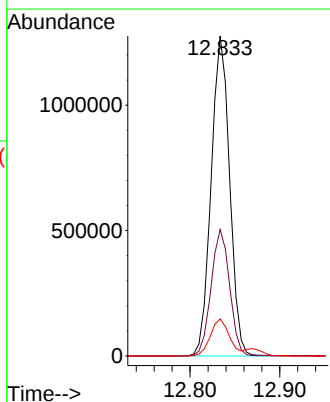
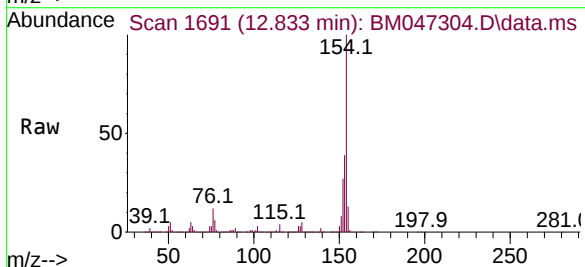
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

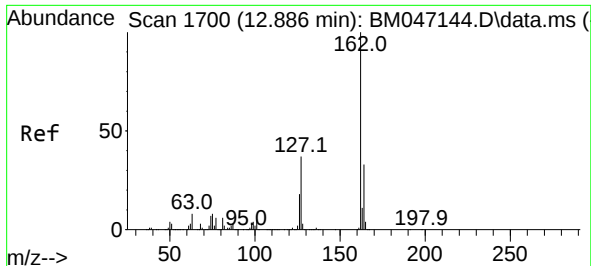
Tgt Ion:172 Resp: 2757519
Ion Ratio Lower Upper
172 100
171 34.8 27.8 41.6
170 23.1 18.7 28.1



#46
1,1'-Biphenyl
Concen: 42.751 ng
RT: 12.833 min Scan# 1691
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:154 Resp: 1822360
Ion Ratio Lower Upper
154 100
153 39.5 19.0 59.0
76 11.6 0.0 31.9

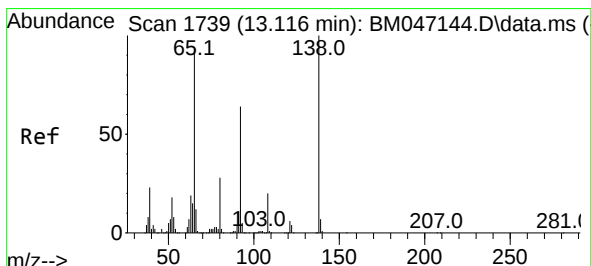
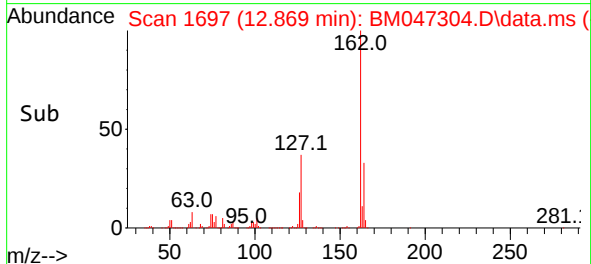
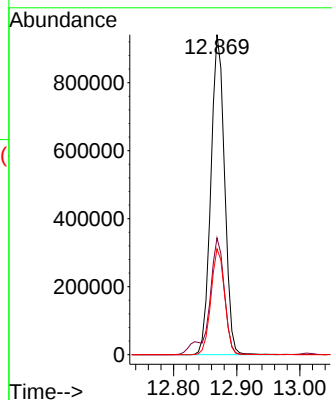
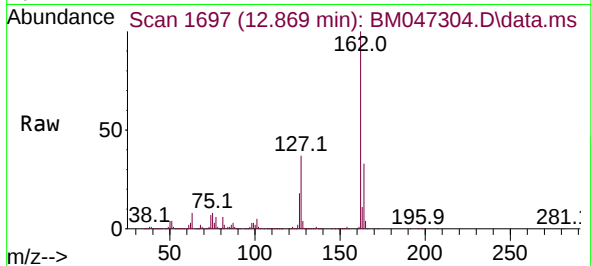




#47
2-Chloronaphthalene
Concen: 42.473 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

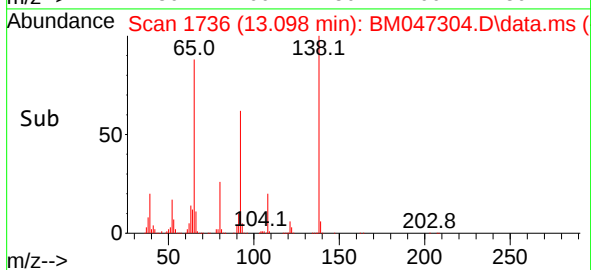
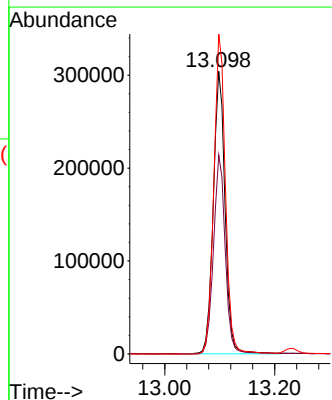
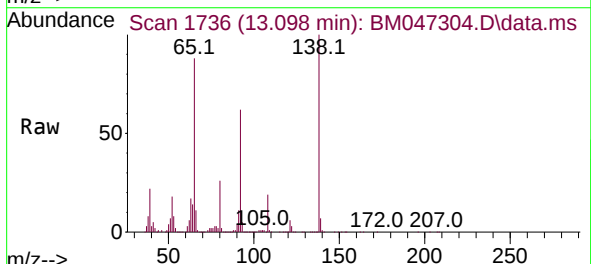
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

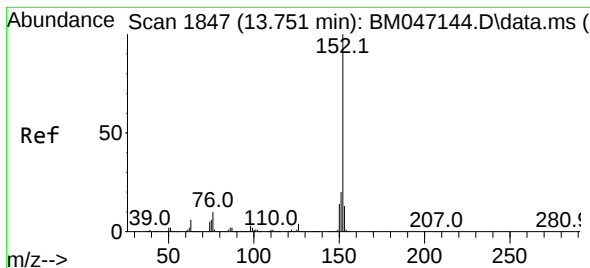
Tgt Ion:162 Resp: 1415108
Ion Ratio Lower Upper
162 100
127 36.5 30.0 45.0
164 33.1 26.3 39.5



#48
2-Nitroaniline
Concen: 43.330 ng
RT: 13.098 min Scan# 1736
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion: 65 Resp: 452275
Ion Ratio Lower Upper
65 100
92 70.4 55.1 82.7
138 113.3 85.9 128.9





#49

Acenaphthylene

Concen: 47.504 ng

RT: 13.733 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

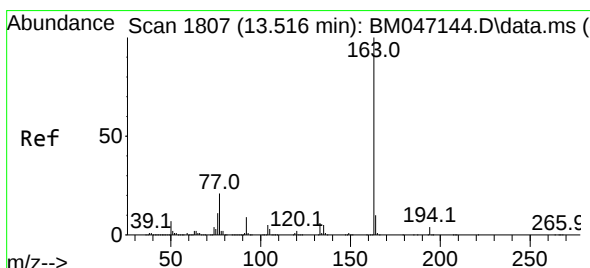
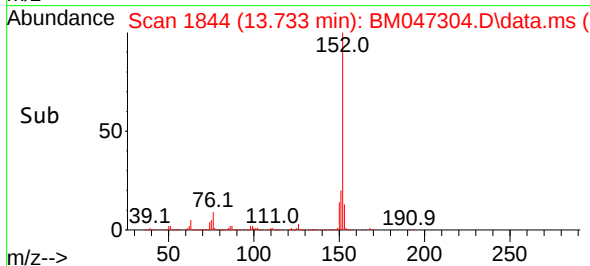
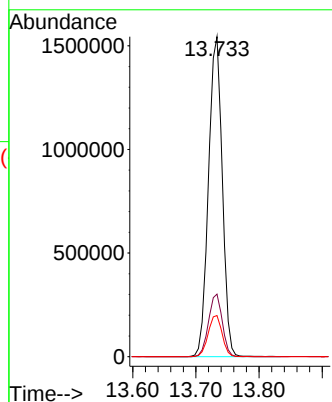
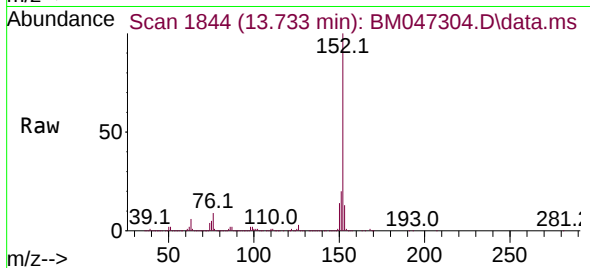
Tgt Ion:152 Resp: 2333007

Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.6

153 12.8 10.4 15.6



#50

Dimethylphthalate

Concen: 44.620 ng

RT: 13.498 min Scan# 1804

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

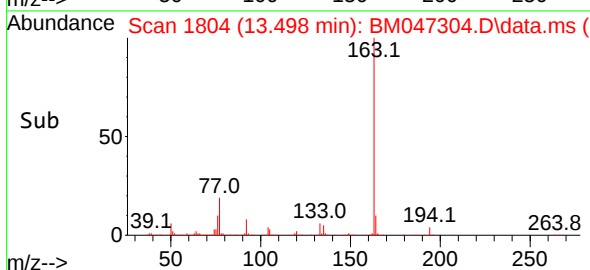
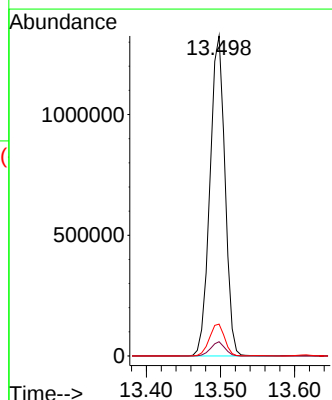
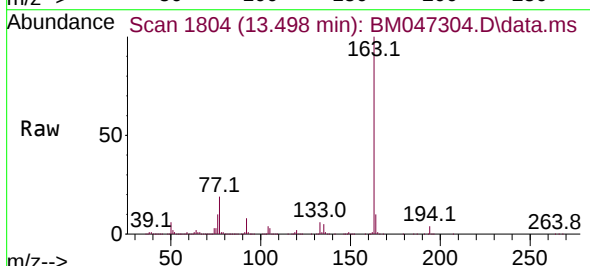
Tgt Ion:163 Resp: 1865941

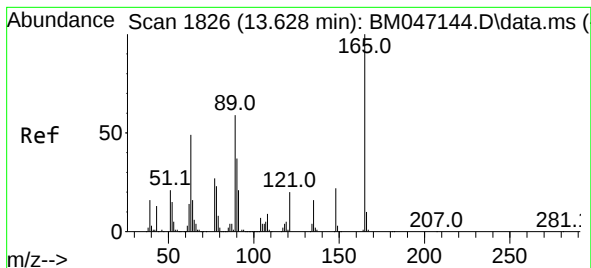
Ion Ratio Lower Upper

163 100

194 4.4 3.0 4.6

164 10.0 8.0 12.0

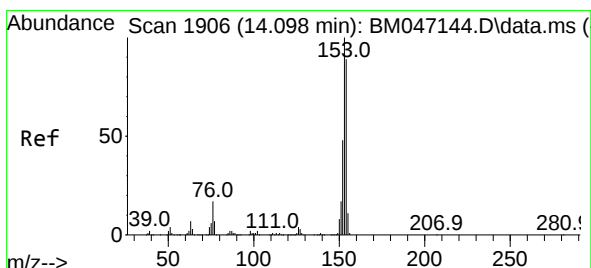
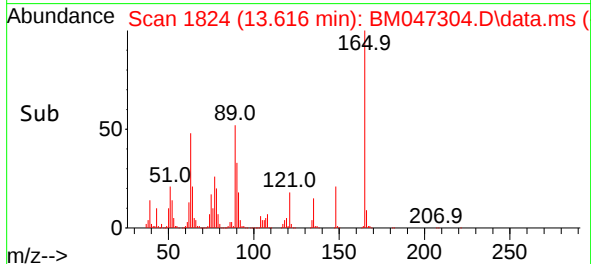
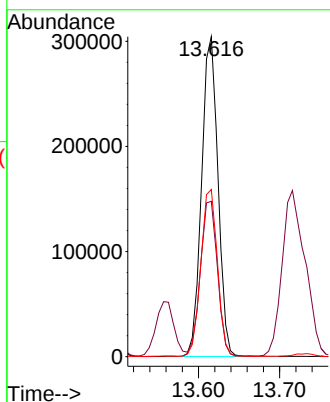
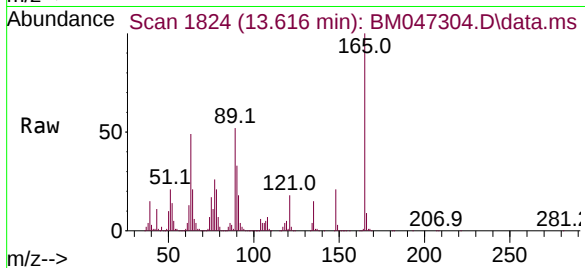




#51
2,6-Dinitrotoluene
Concen: 43.532 ng
RT: 13.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

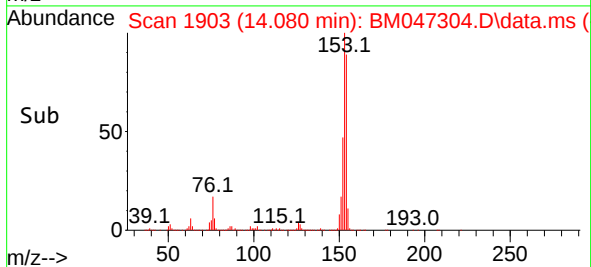
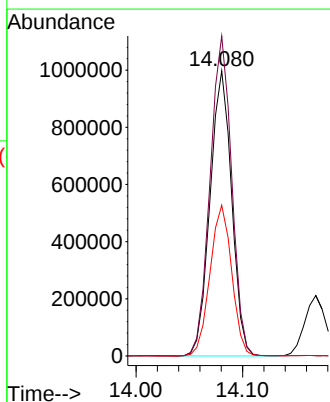
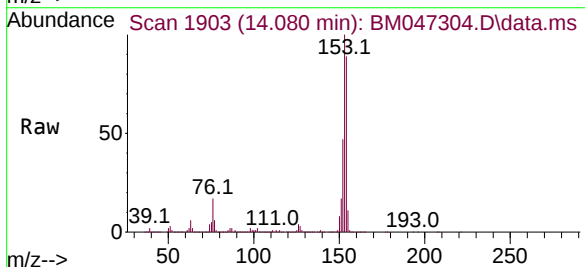
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

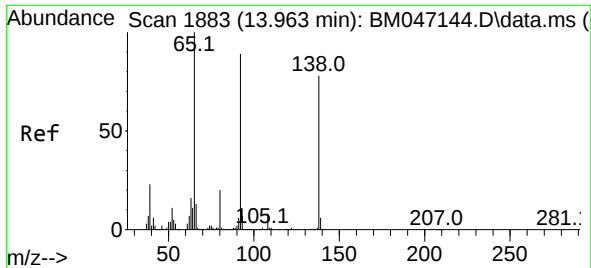
Tgt Ion:165 Resp: 425552
Ion Ratio Lower Upper
165 100
63 48.5 46.5 69.7
89 52.2 47.3 70.9



#52
Acenaphthene
Concen: 45.020 ng
RT: 14.080 min Scan# 1903
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:154 Resp: 1402512
Ion Ratio Lower Upper
154 100
153 112.2 90.3 135.5
152 52.9 42.9 64.3

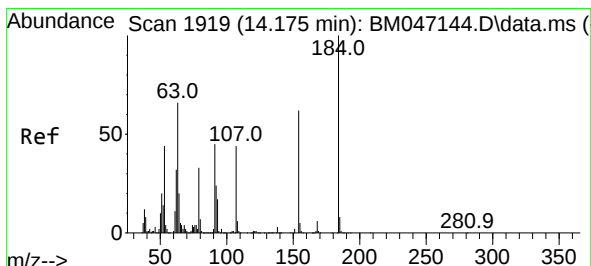
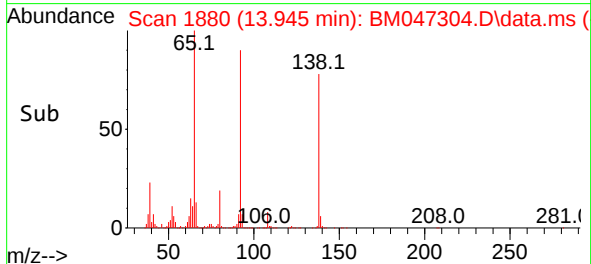
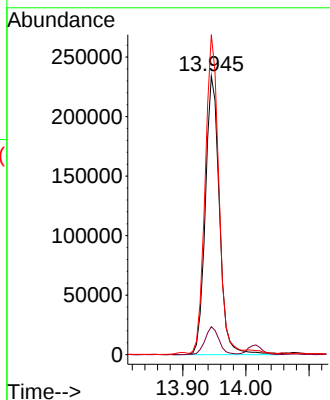
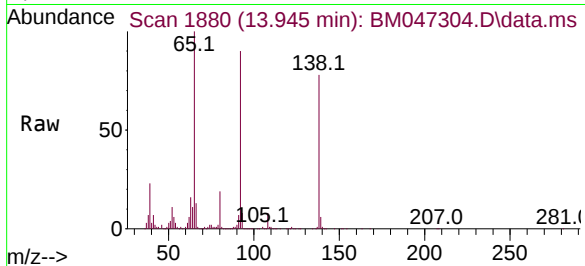




#53
3-Nitroaniline
Concen: 37.044 ng
RT: 13.945 min Scan# 1880
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

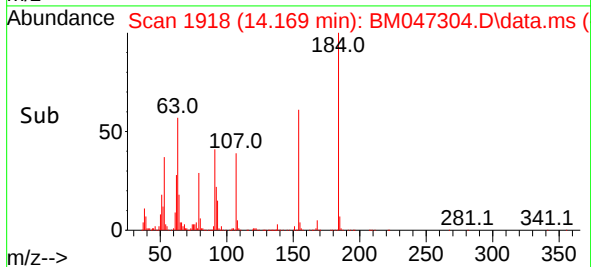
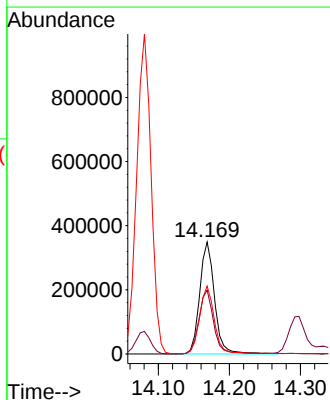
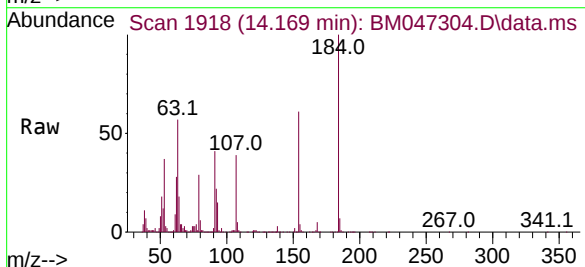
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

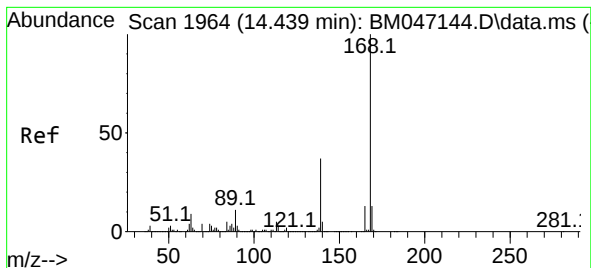
Tgt Ion:138 Resp: 362871
Ion Ratio Lower Upper
138 100
108 10.1 7.9 11.9
92 114.9 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 86.841 ng
RT: 14.169 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:184 Resp: 508806
Ion Ratio Lower Upper
184 100
63 57.1 52.7 79.1
154 60.6 50.4 75.6





#55

Dibenzenofuran

Concen: 45.070 ng

RT: 14.422 min Scan# 1961

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

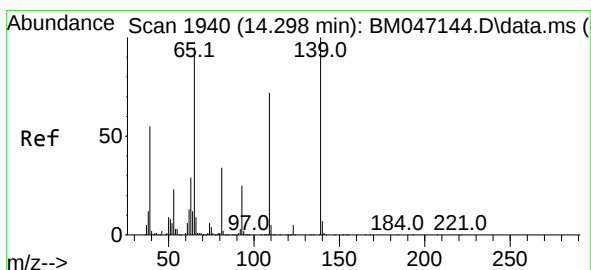
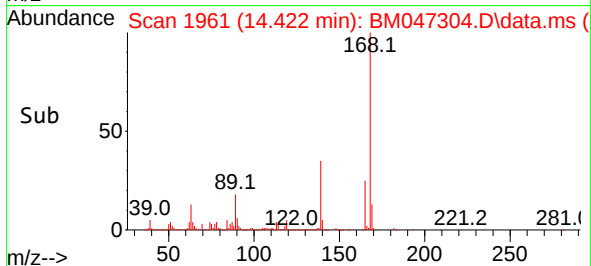
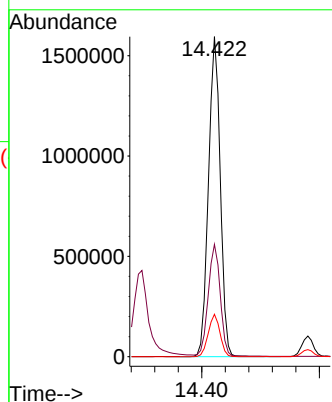
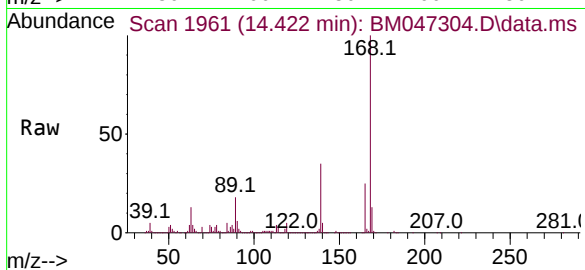
Tgt Ion:168 Resp: 2217793

Ion Ratio Lower Upper

168 100

139 35.1 29.6 44.4

169 13.2 10.7 16.1



#56

4-Nitrophenol

Concen: 91.612 ng

RT: 14.298 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

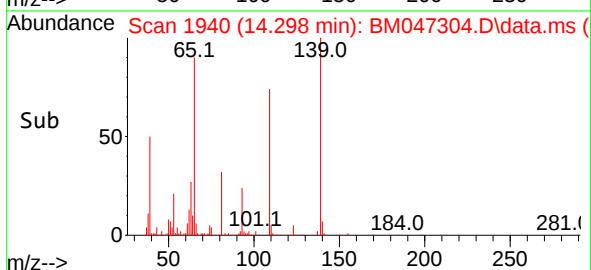
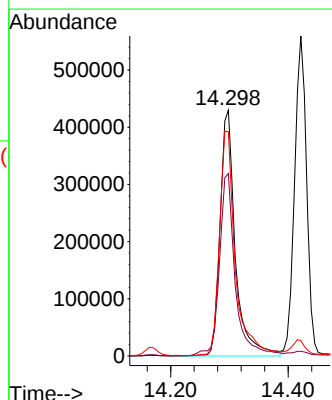
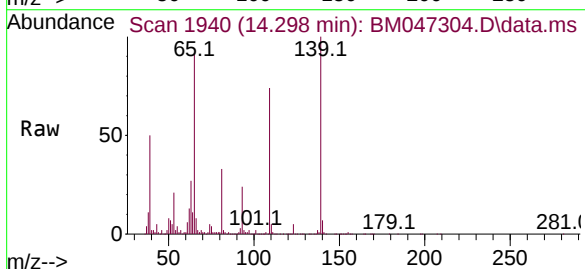
Tgt Ion:139 Resp: 773827

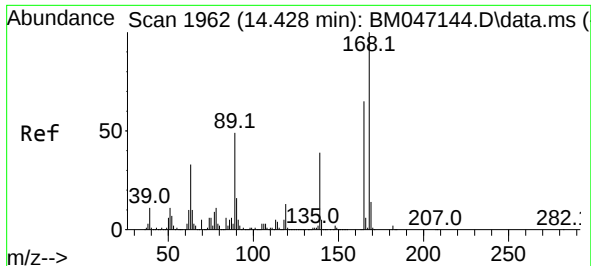
Ion Ratio Lower Upper

139 100

109 74.1 52.5 92.5

65 91.2 75.4 115.4

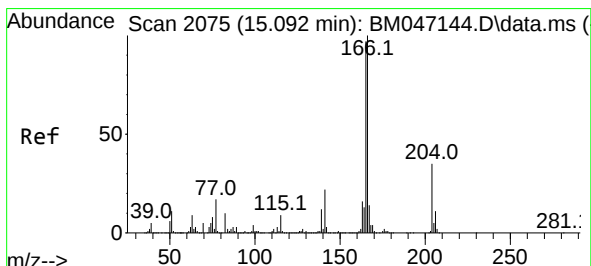
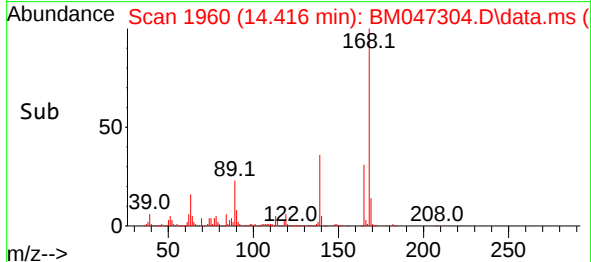
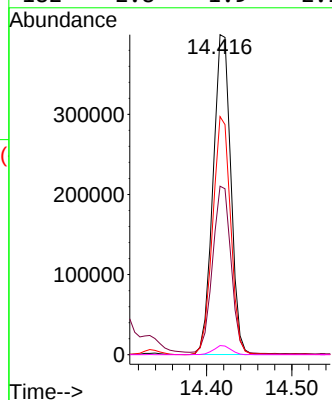
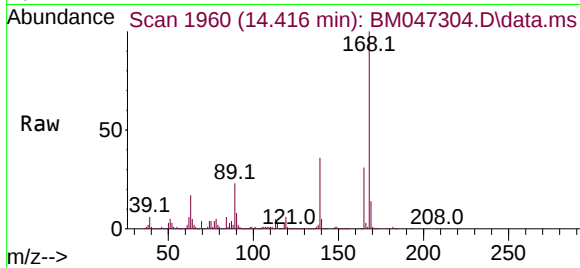




#57
2,4-Dinitrotoluene
Concen: 44.326 ng
RT: 14.416 min Scan# 1960
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

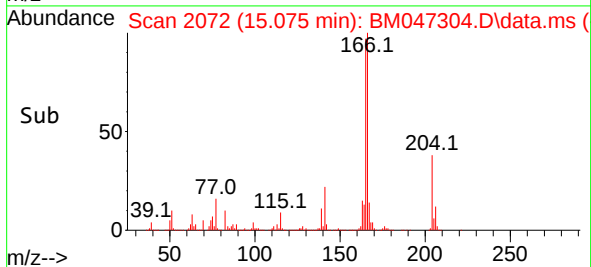
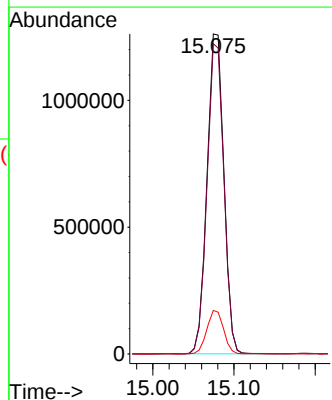
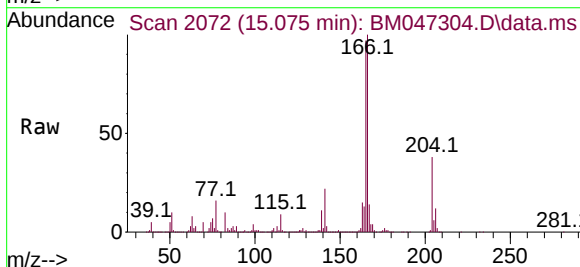
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

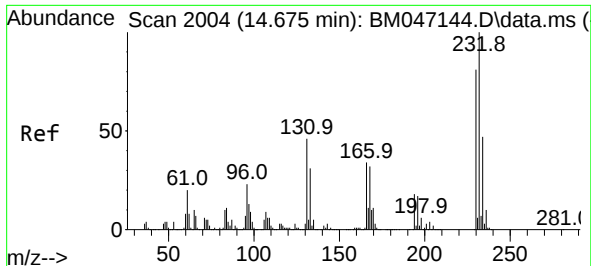
Tgt Ion:	165	Resp:	578375
Ion	Ratio	Lower	Upper
165	100		
63	52.6	40.3	60.5
89	74.4	61.0	91.6
182	2.8	1.9	2.9



#58
Fluorene
Concen: 44.740 ng
RT: 15.075 min Scan# 2072
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:	166	Resp:	1816495
Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.4	116.0
167	13.6	11.0	16.6

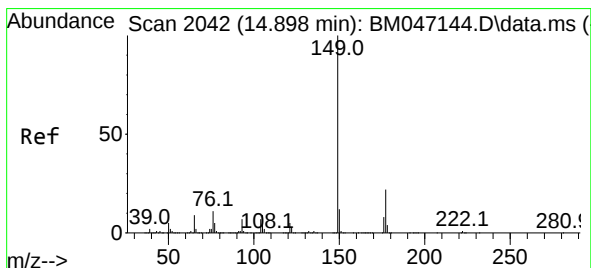
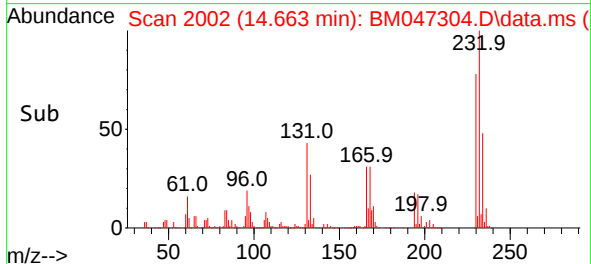
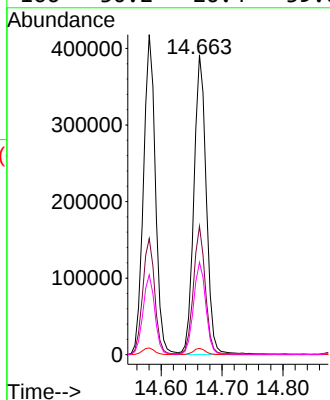
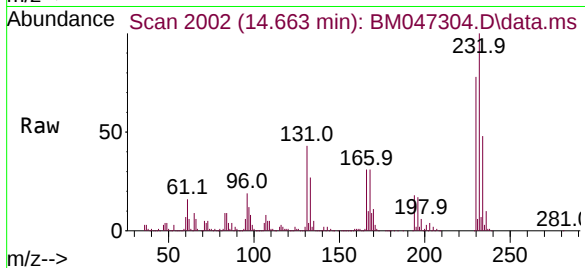




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.180 ng
RT: 14.663 min Scan# 2002
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

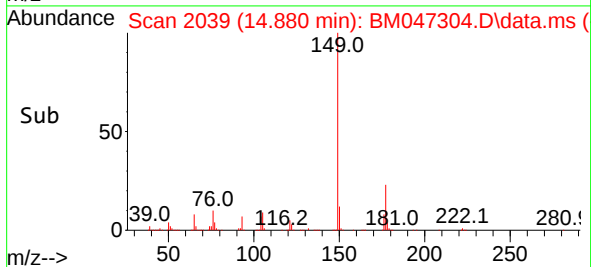
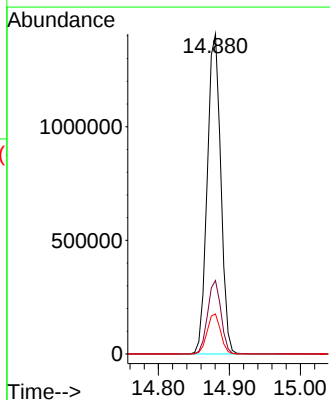
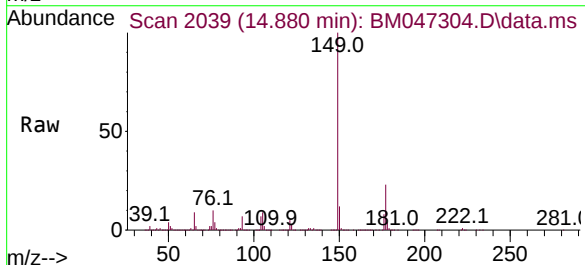
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

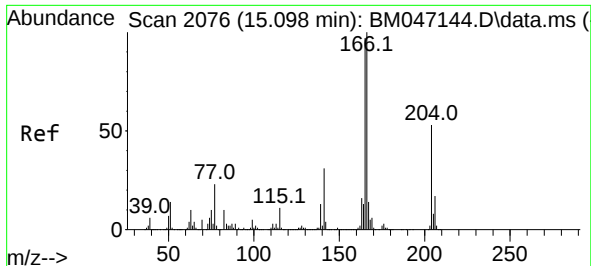
Tgt Ion:232 Resp: 552716
Ion Ratio Lower Upper
232 100
131 41.3 36.9 55.3
130 2.2 2.0 3.0
166 30.2 26.4 39.6



#60
Diethylphthalate
Concen: 43.652 ng
RT: 14.880 min Scan# 2039
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:149 Resp: 1864139
Ion Ratio Lower Upper
149 100
177 23.0 17.6 26.4
150 12.5 9.8 14.6

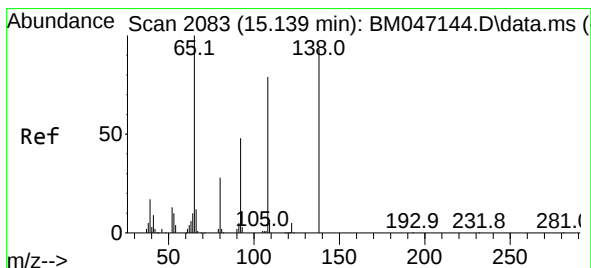
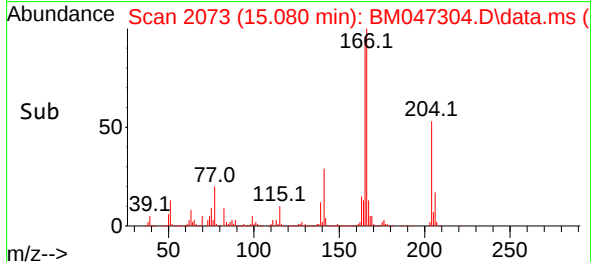
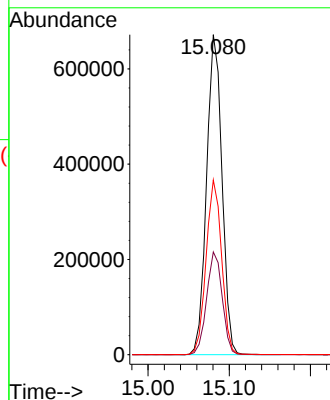
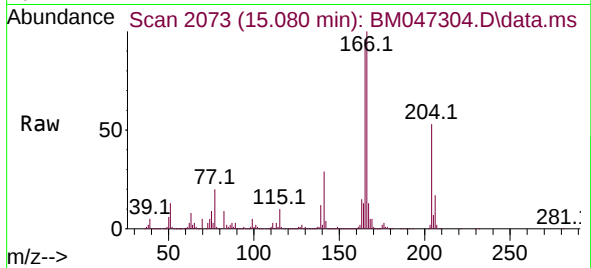




#61
4-Chlorophenyl-phenylether
Concen: 45.673 ng
RT: 15.080 min Scan# 2076
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

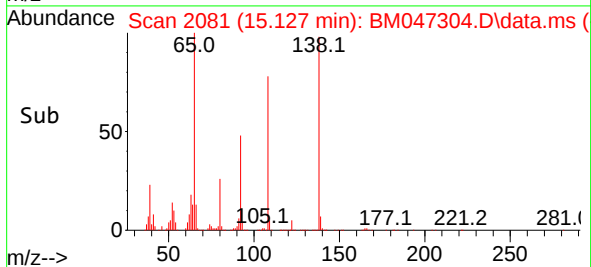
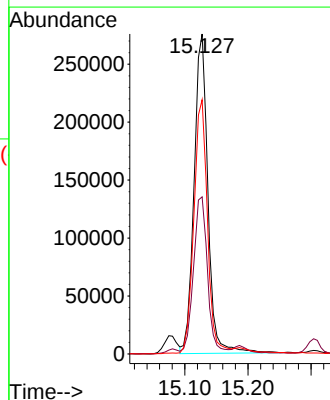
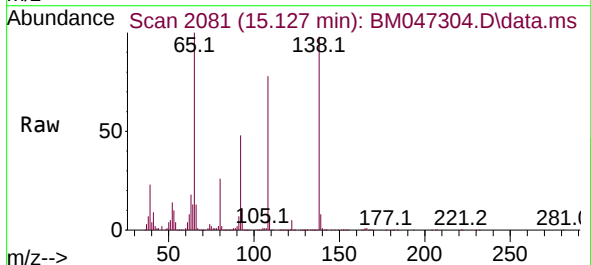
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

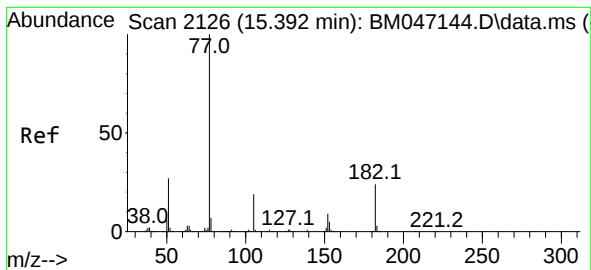
Tgt Ion:204 Resp: 882828
Ion Ratio Lower Upper
204 100
206 32.1 26.2 39.4
141 54.6 47.2 70.8



#62
4-Nitroaniline
Concen: 43.485 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:138 Resp: 419644
Ion Ratio Lower Upper
138 100
92 49.1 31.9 71.9
108 79.5 63.8 103.8



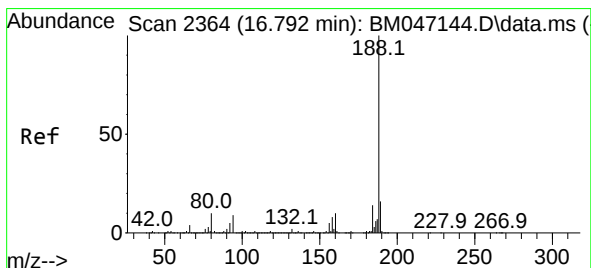
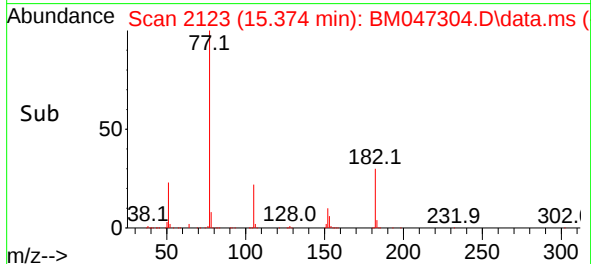
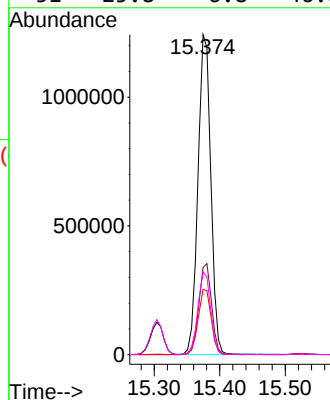
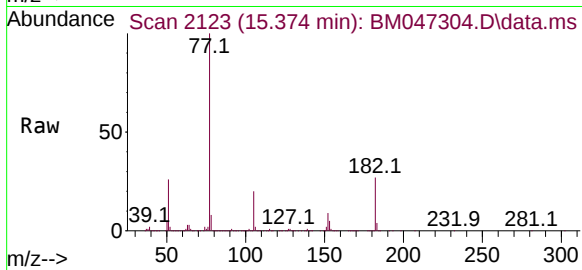


#63
Azobenzene
Concen: 41.804 ng
RT: 15.374 min Scan# 2126
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion: 77 Resp: 1692689

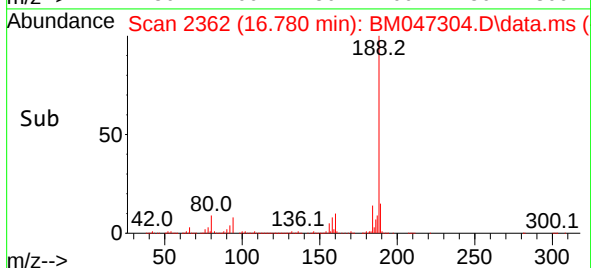
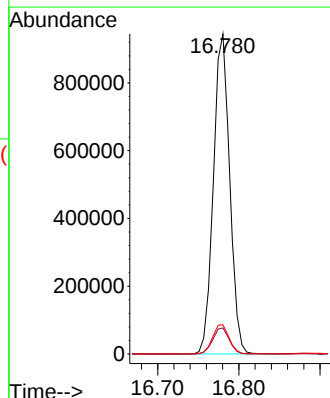
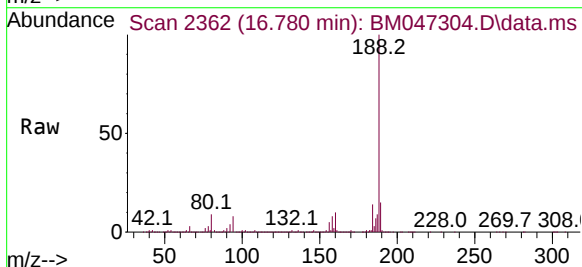
Ion	Ratio	Lower	Upper
77	100		
182	27.2	3.8	43.8
105	20.4	0.0	39.5
51	25.8	6.8	46.8

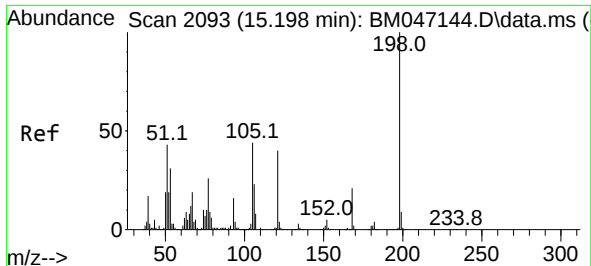


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.780 min Scan# 2362
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:188 Resp: 1314355

Ion	Ratio	Lower	Upper
188	100		
94	8.1	7.0	10.6
80	9.2	8.0	12.0

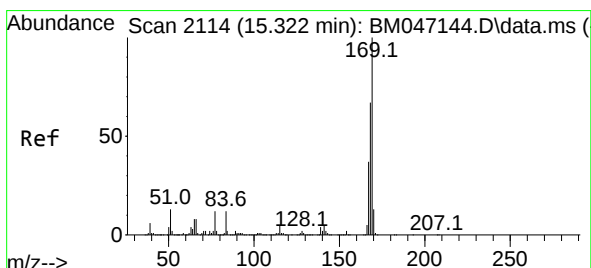
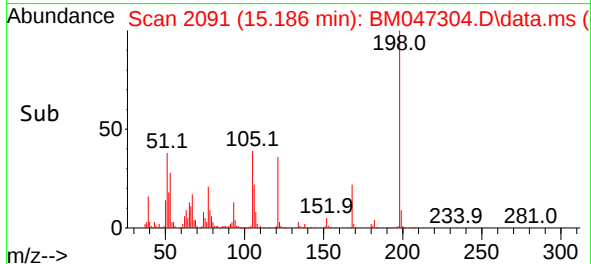
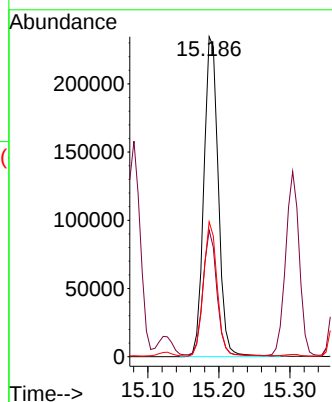
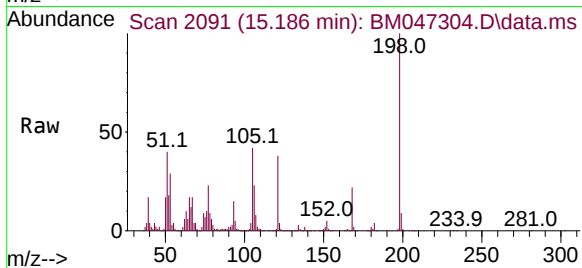




#65
4,6-Dinitro-2-methylphenol
Concen: 43.251 ng
RT: 15.186 min Scan# 2093
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

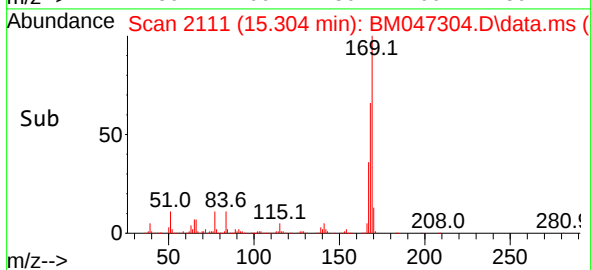
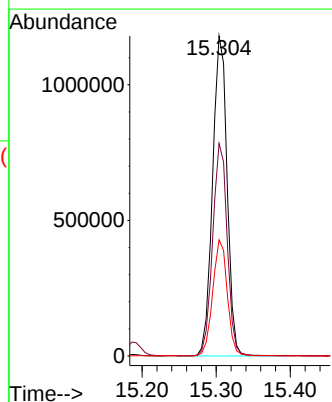
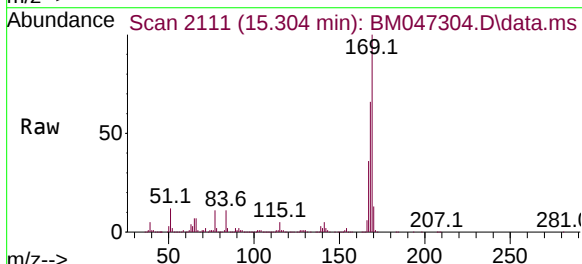
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

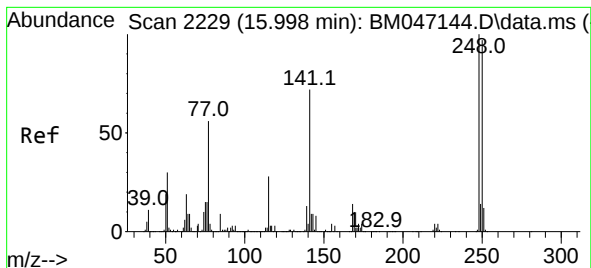
Tgt Ion:198 Resp: 332829
Ion Ratio Lower Upper
198 100
51 39.5 23.9 63.9
105 42.2 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 44.744 ng
RT: 15.304 min Scan# 2111
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:169 Resp: 1601816
Ion Ratio Lower Upper
169 100
168 66.4 53.8 80.8
167 36.3 29.3 43.9

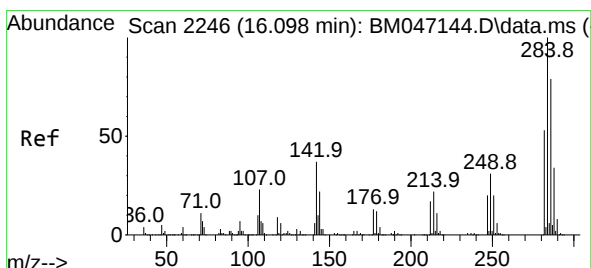
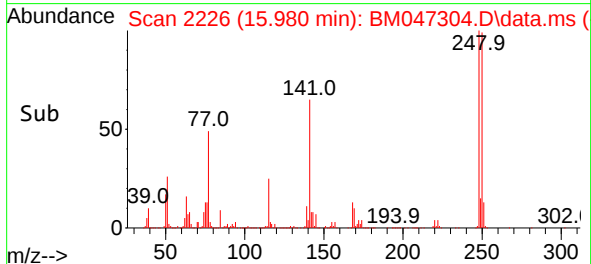
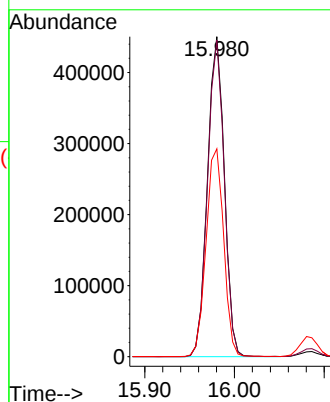
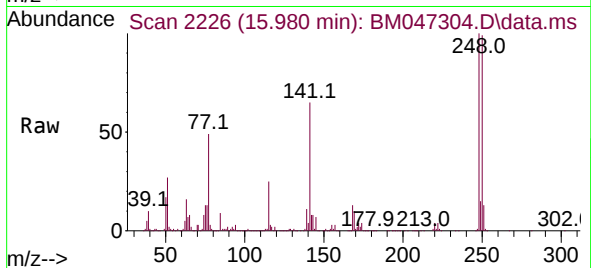




#67
4-Bromophenyl-phenylether
Concen: 46.585 ng
RT: 15.980 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

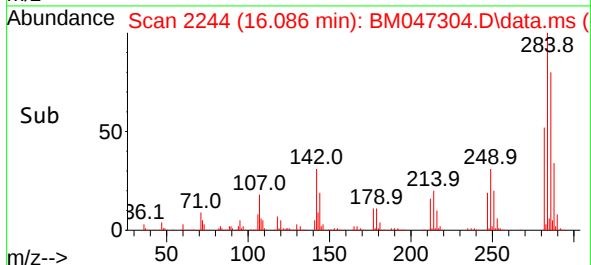
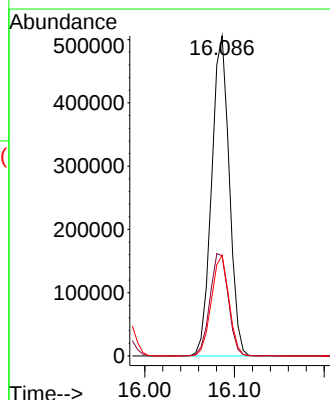
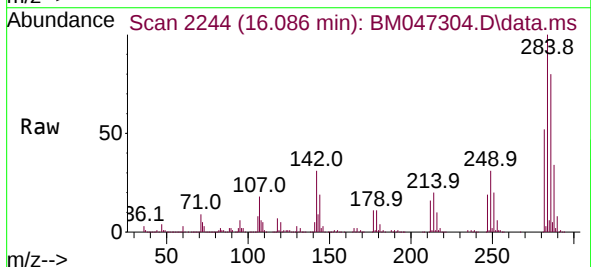
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

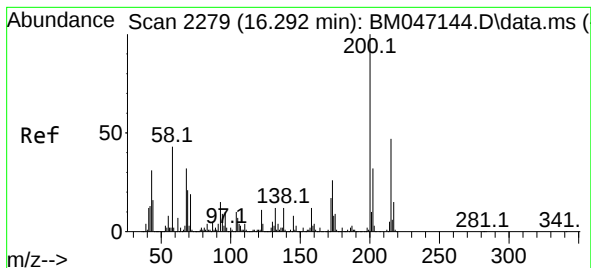
Tgt Ion:248 Resp: 590008
Ion Ratio Lower Upper
248 100
250 98.9 77.8 116.8
141 64.9 57.7 86.5



#68
Hexachlorobenzene
Concen: 45.485 ng
RT: 16.086 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:284 Resp: 689947
Ion Ratio Lower Upper
284 100
142 31.3 29.4 44.0
249 31.5 25.1 37.7





#69

Atrazine

Concen: 59.468 ng

RT: 16.280 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

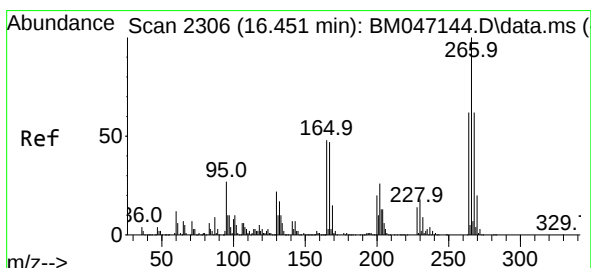
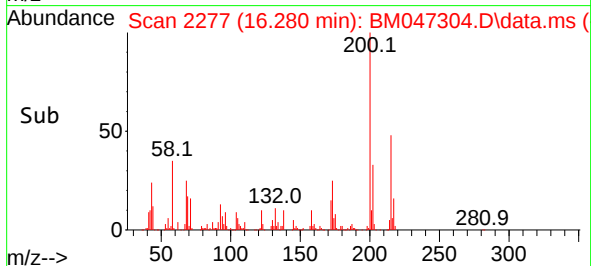
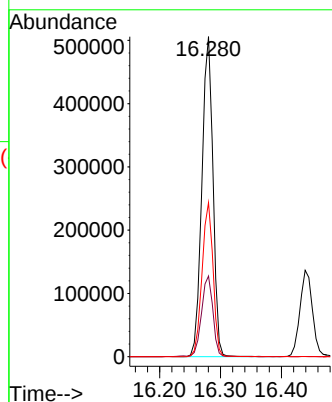
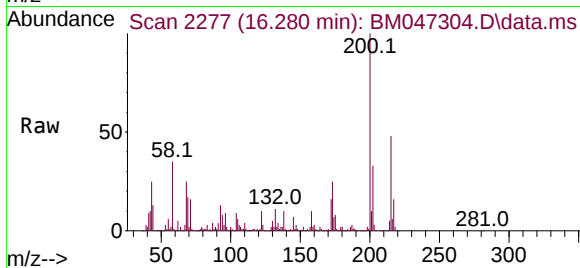
Tgt Ion:200 Resp: 640632

Ion Ratio Lower Upper

200 100

173 25.2 6.1 46.1

215 48.2 26.8 66.8



#70

Pentachlorophenol

Concen: 93.645 ng

RT: 16.439 min Scan# 2304

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

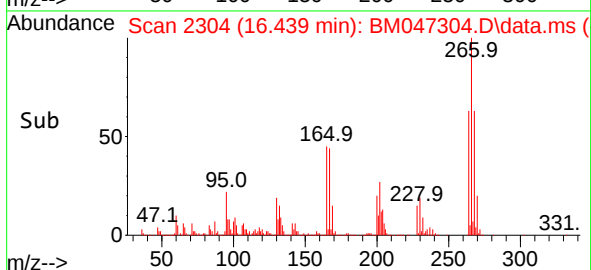
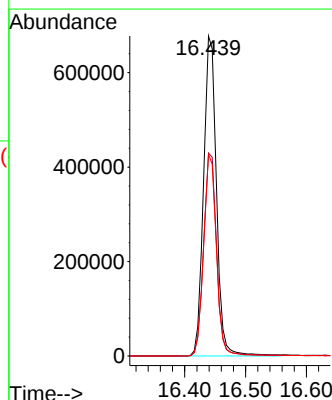
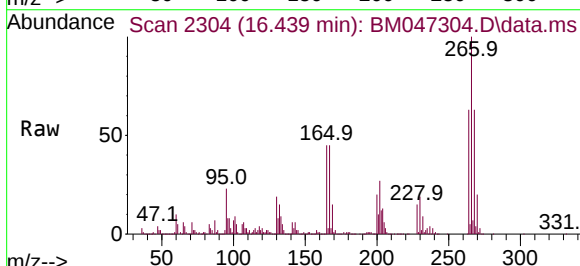
Tgt Ion:266 Resp: 995723

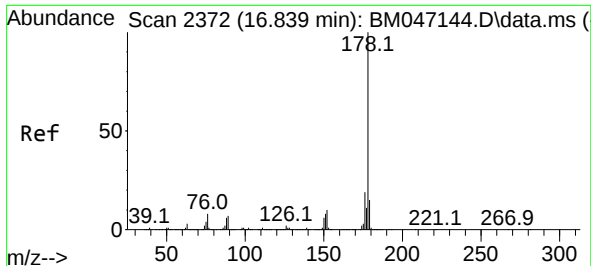
Ion Ratio Lower Upper

266 100

268 63.4 49.8 74.6

264 63.0 49.6 74.4

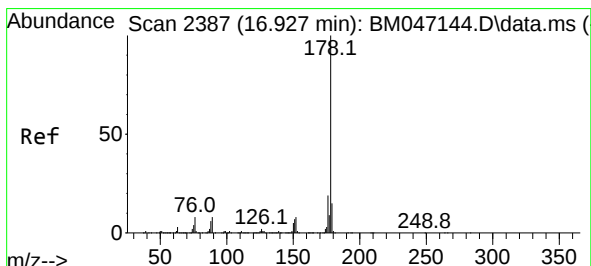
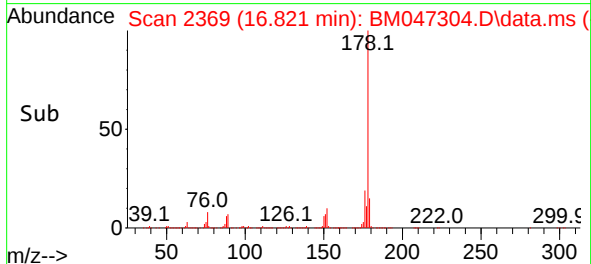
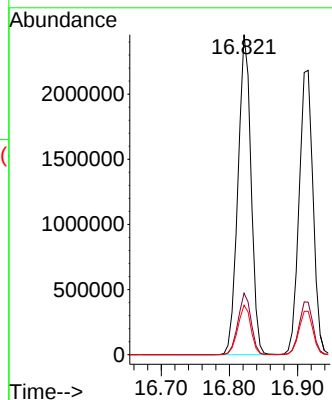
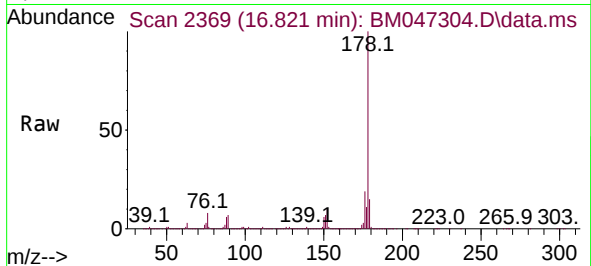




#71
Phenanthrene
Concen: 49.655 ng
RT: 16.821 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

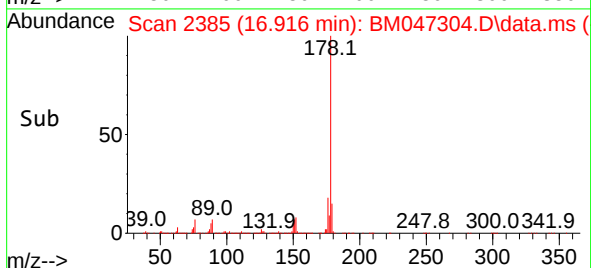
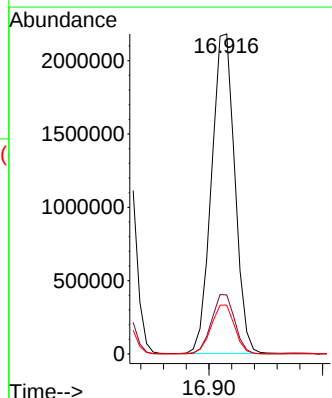
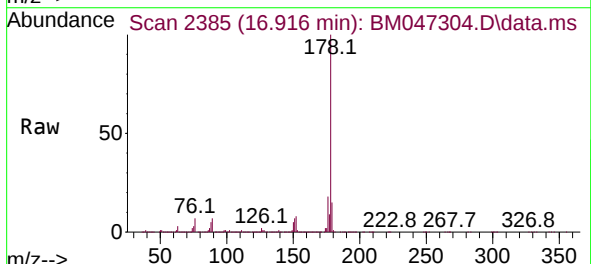
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

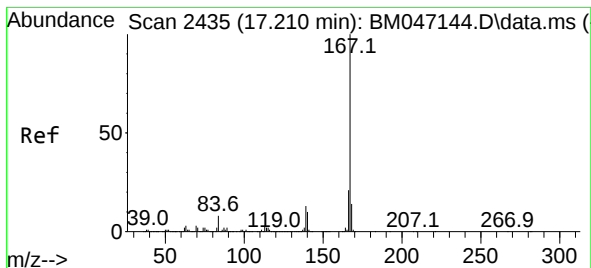
Tgt Ion:178 Resp: 3275384
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.5 12.4 18.6



#72
Anthracene
Concen: 48.334 ng
RT: 16.916 min Scan# 2385
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:178 Resp: 3102162
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.2 12.4 18.6





#73

Carbazole

Concen: 45.634 ng

RT: 17.198 min Scan# 2435

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

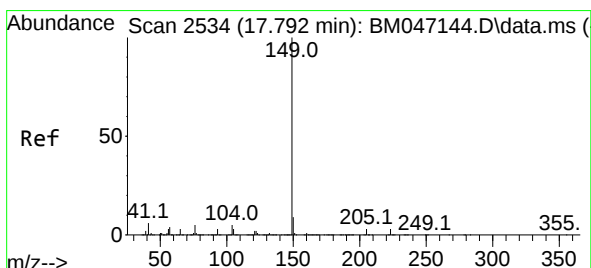
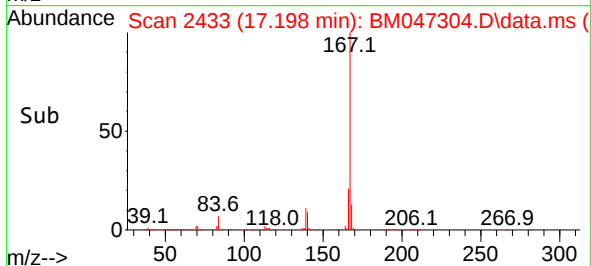
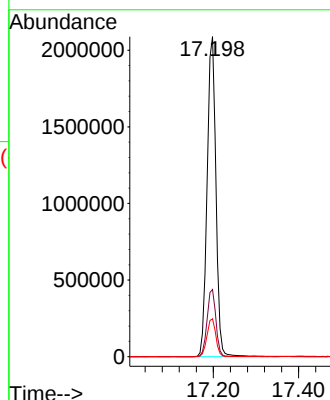
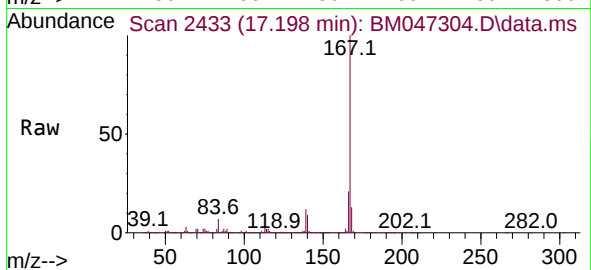
Tgt Ion:167 Resp: 2990457

Ion Ratio Lower Upper

167 100

166 21.0 17.1 25.7

139 11.9 10.0 15.0



#74

Di-n-butylphthalate

Concen: 45.696 ng

RT: 17.780 min Scan# 2532

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

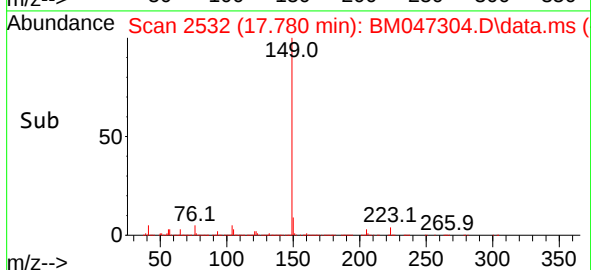
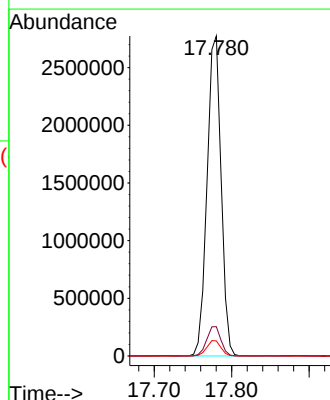
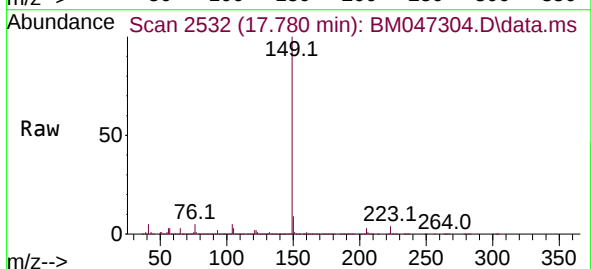
Tgt Ion:149 Resp: 3484396

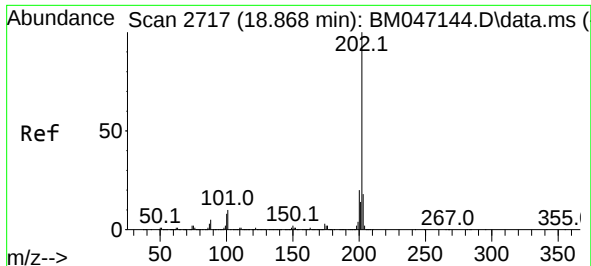
Ion Ratio Lower Upper

149 100

150 9.2 7.5 11.3

104 4.7 4.1 6.1

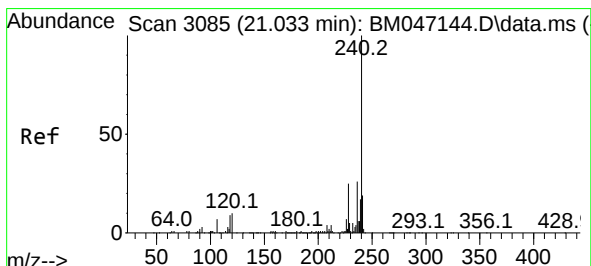
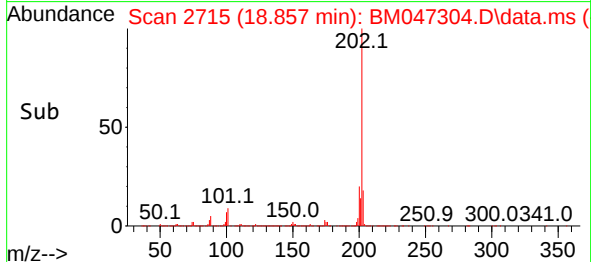
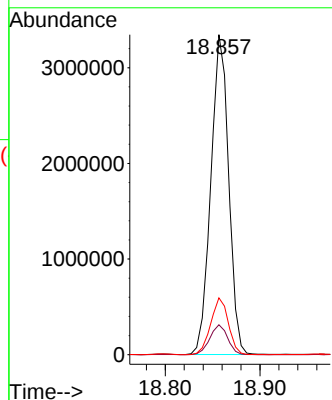
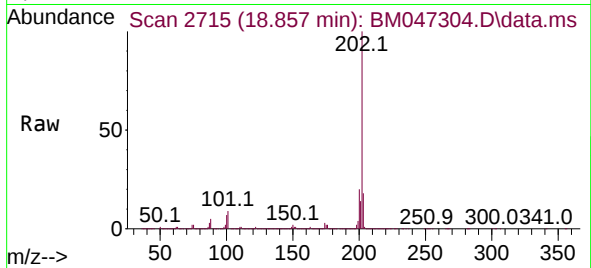




#75
Fluoranthene
Concen: 54.607 ng
RT: 18.857 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

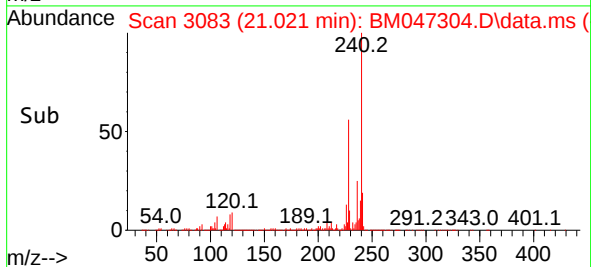
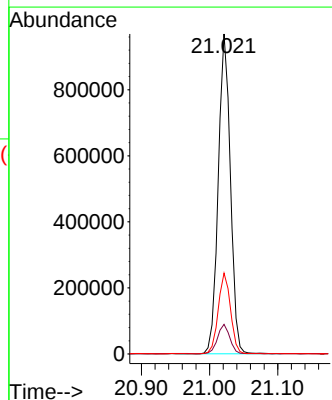
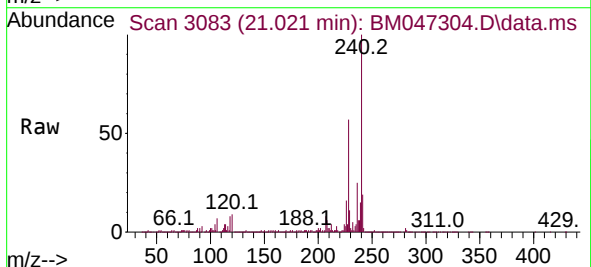
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

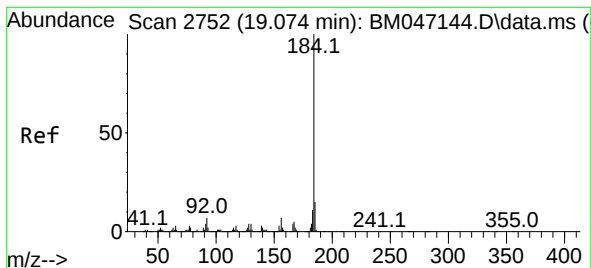
Tgt Ion:202 Resp: 4381220
Ion Ratio Lower Upper
202 100
101 9.4 0.0 30.2
203 17.8 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.021 min Scan# 3083
Delta R.T. -0.012 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:240 Resp: 1199987
Ion Ratio Lower Upper
240 100
120 9.2 8.2 12.2
236 25.2 20.6 30.8





#77

Benzidine

Concen: 80.766 ng

RT: 19.062 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

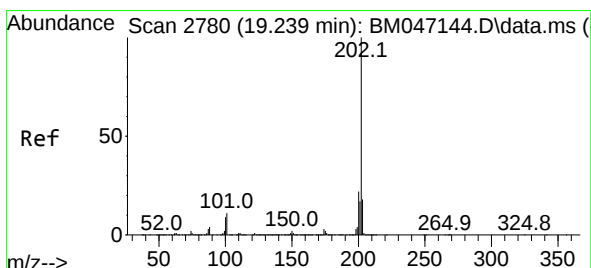
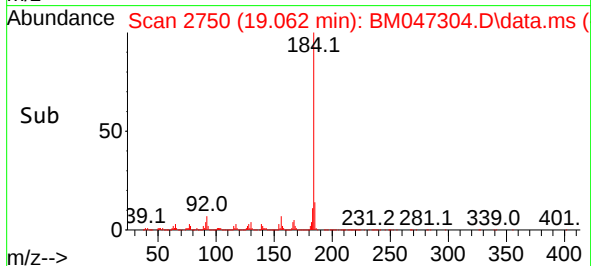
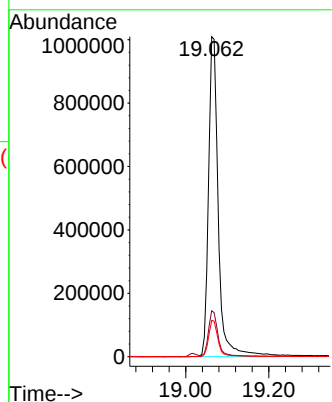
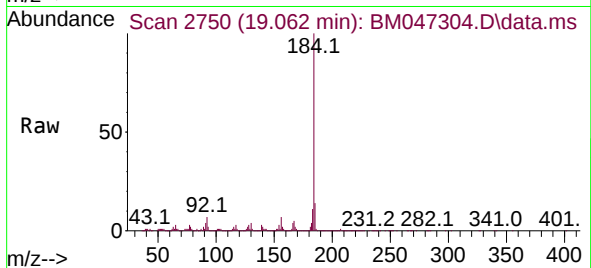
Tgt Ion:184 Resp: 1643576

Ion Ratio Lower Upper

184 100

185 14.3 11.8 17.6

183 11.4 9.0 13.6



#78

Pyrene

Concen: 53.690 ng

RT: 19.227 min Scan# 2778

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

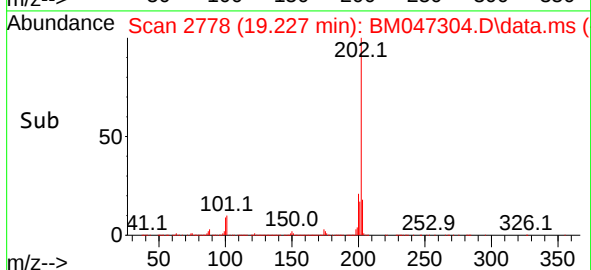
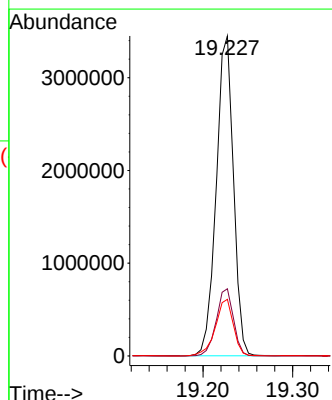
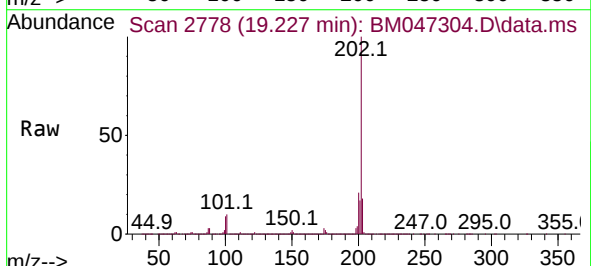
Tgt Ion:202 Resp: 4600315

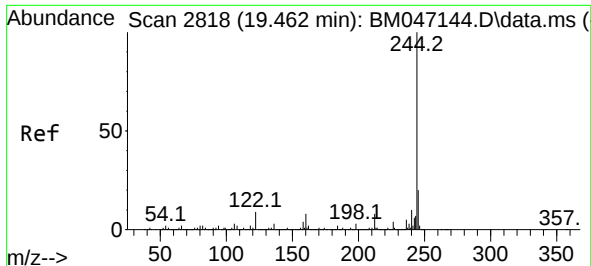
Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

203 17.7 14.2 21.2

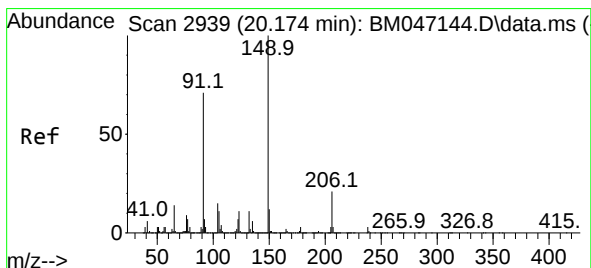
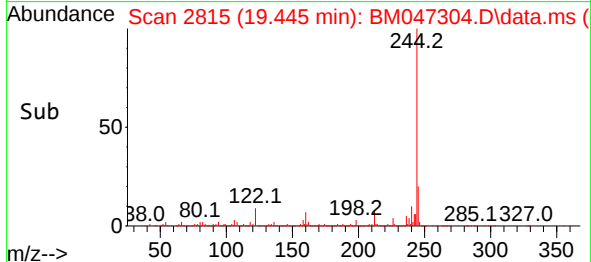
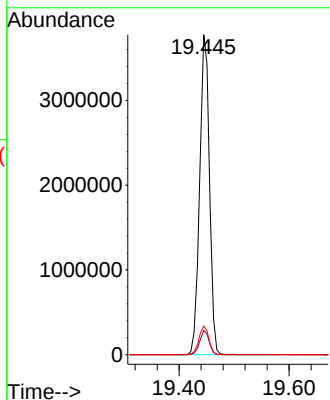
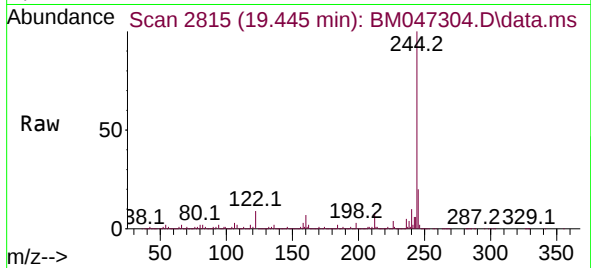




#79
 Terphenyl-d14
 Concen: 83.562 ng
 RT: 19.445 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

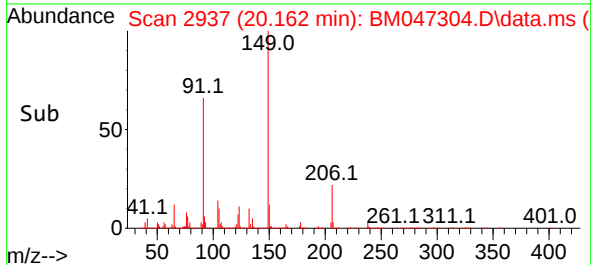
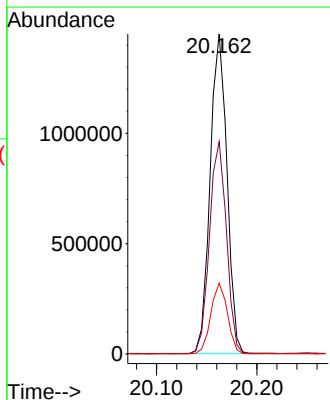
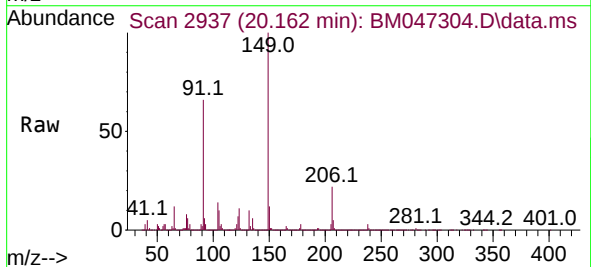
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMS

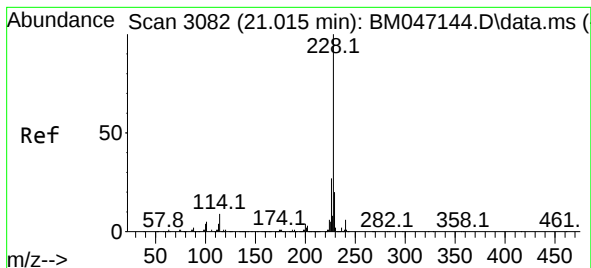
Tgt Ion:244 Resp: 4679644
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.2 9.4
 122 8.9 7.1 10.7



#80
 Butylbenzylphthalate
 Concen: 48.370 ng
 RT: 20.162 min Scan# 2937
 Delta R.T. -0.012 min
 Lab File: BM047304.D
 Acq: 21 Aug 2024 19:05

Tgt Ion:149 Resp: 1691355
 Ion Ratio Lower Upper
 149 100
 91 66.4 57.0 85.4
 206 22.1 16.4 24.6





#81

Benzo(a)anthracene

Concen: 50.732 ng

RT: 21.004 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

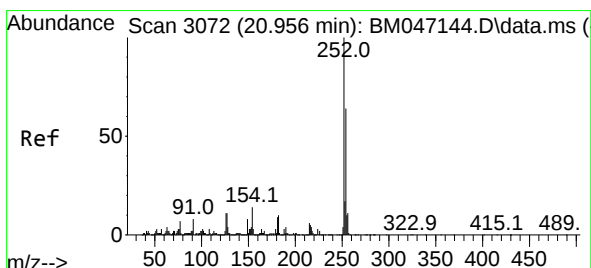
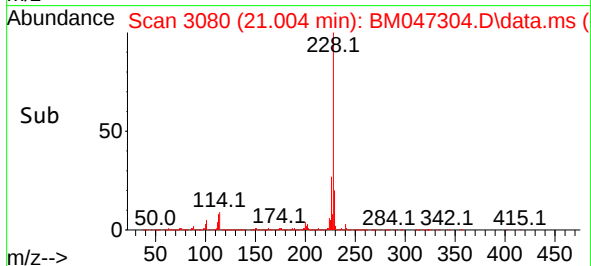
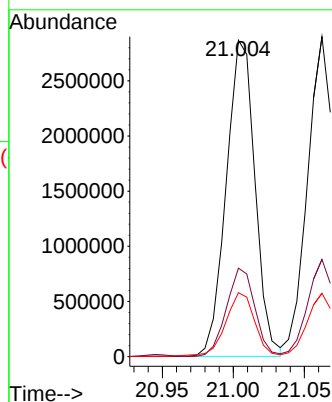
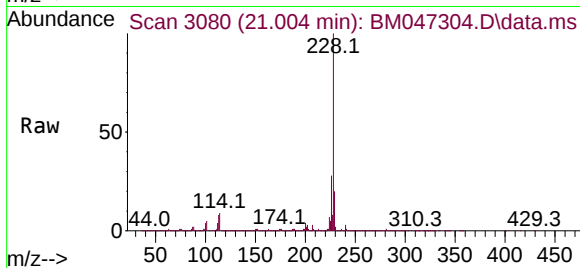
Tgt Ion:228 Resp: 4041417

Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.6

229 20.2 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 51.061 ng

RT: 20.945 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

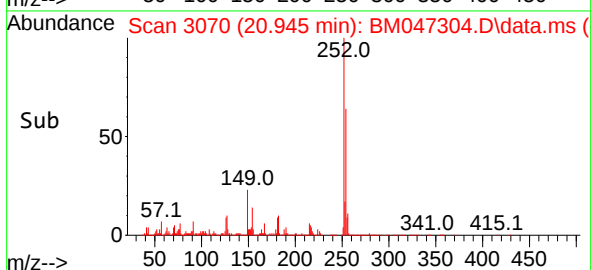
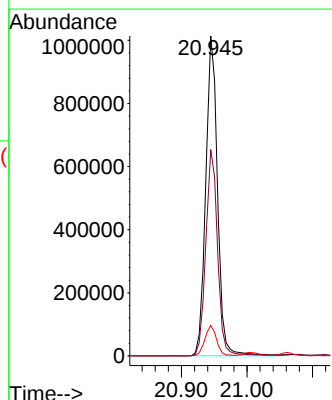
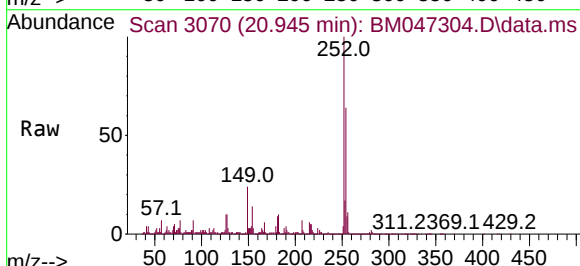
Tgt Ion:252 Resp: 1272688

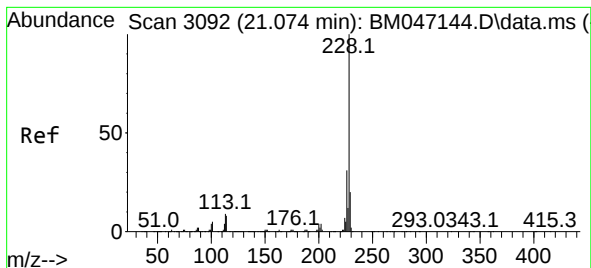
Ion Ratio Lower Upper

252 100

254 64.5 51.0 76.6

126 9.5 8.5 12.7





#83

Chrysene

Concen: 49.658 ng

RT: 21.062 min Scan# 3092

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

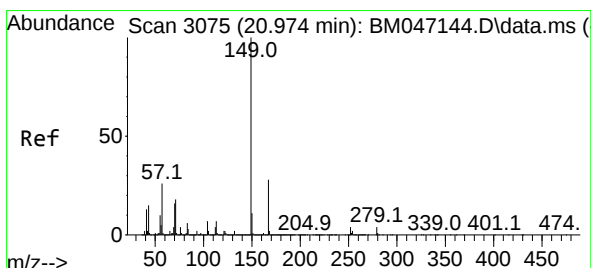
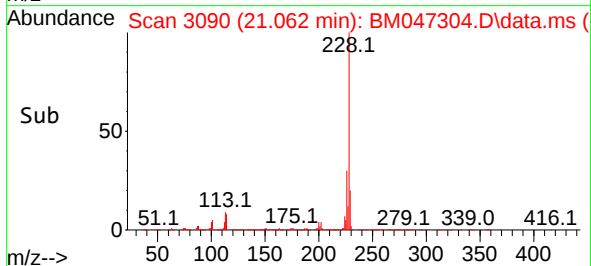
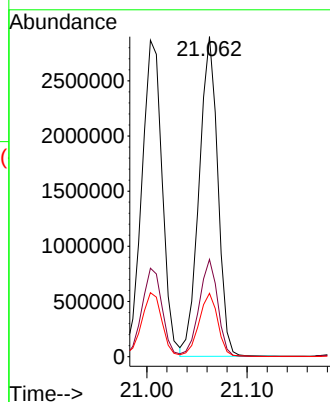
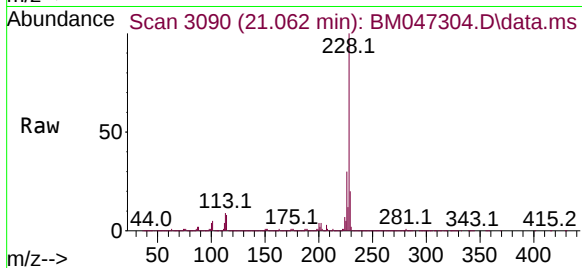
Tgt Ion:228 Resp: 3753172

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 19.8 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 46.823 ng

RT: 20.962 min Scan# 3073

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

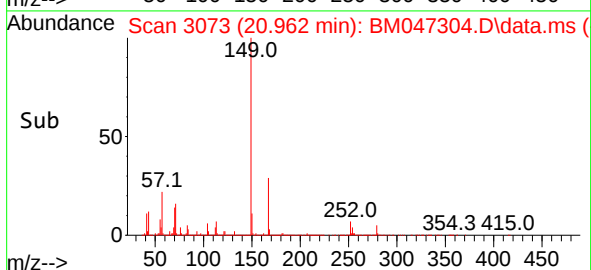
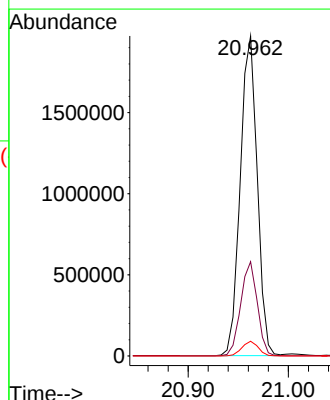
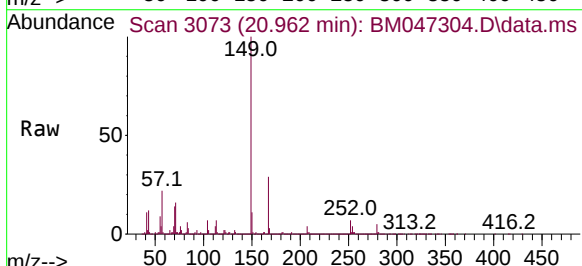
Tgt Ion:149 Resp: 2321920

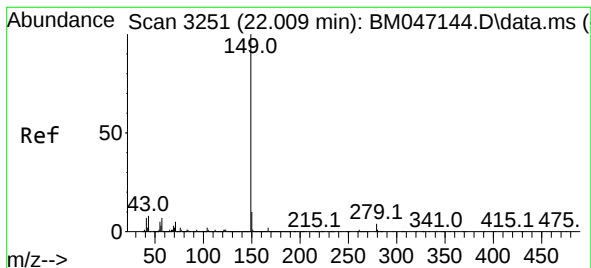
Ion Ratio Lower Upper

149 100

167 29.4 22.2 33.2

279 4.6 3.0 4.4#





#85

Di-n-octyl phthalate

Concen: 50.449 ng

RT: 21.992 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

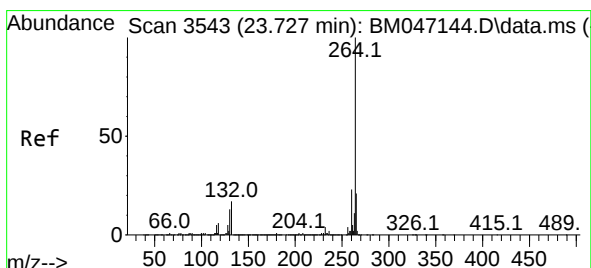
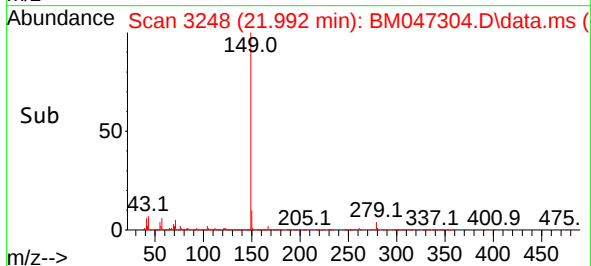
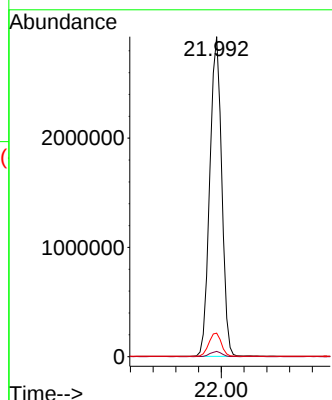
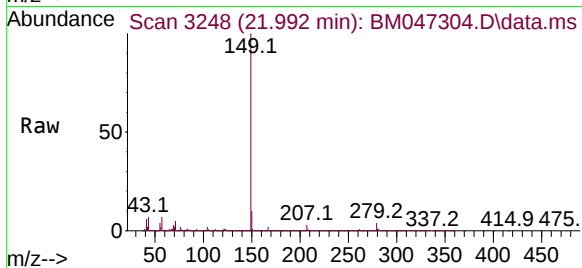
Tgt Ion:149 Resp: 4252171

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: 23.715 min Scan# 3541

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

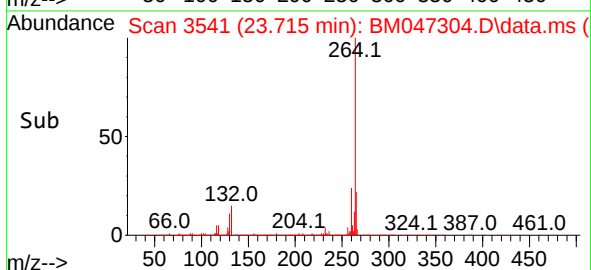
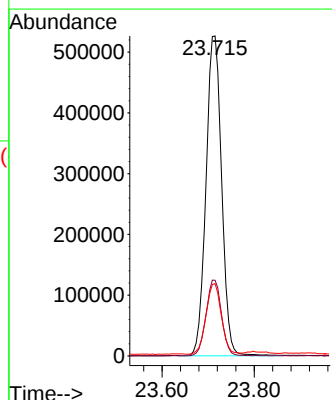
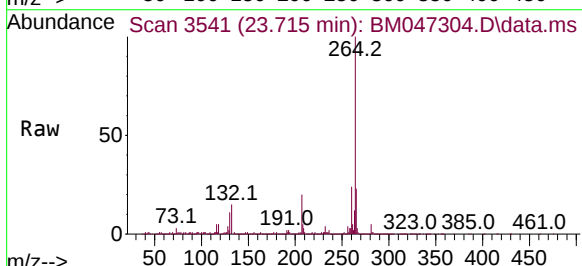
Tgt Ion:264 Resp: 1244820

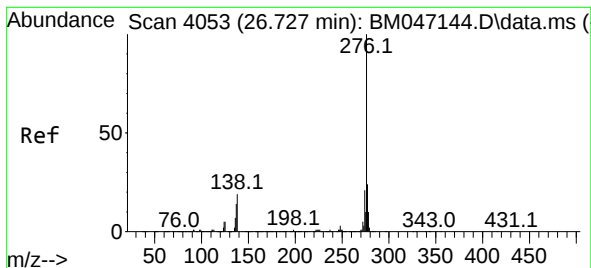
Ion Ratio Lower Upper

264 100

260 23.7 18.5 27.7

265 22.6 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 48.109 ng

RT: 26.715 min Scan# 4051

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

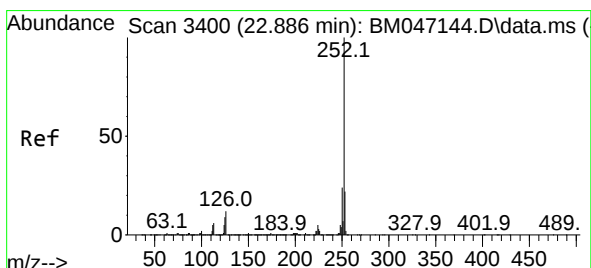
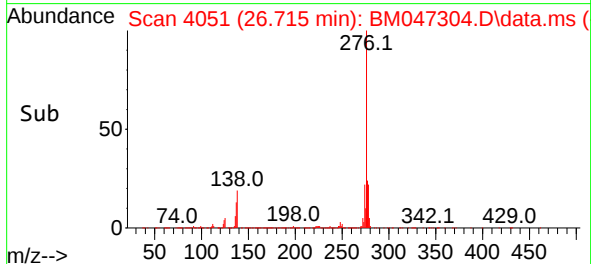
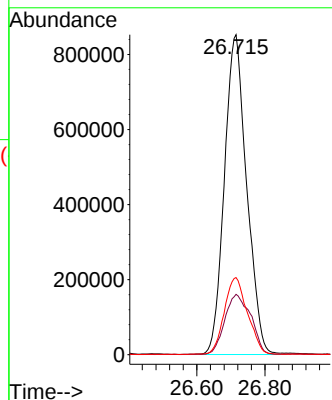
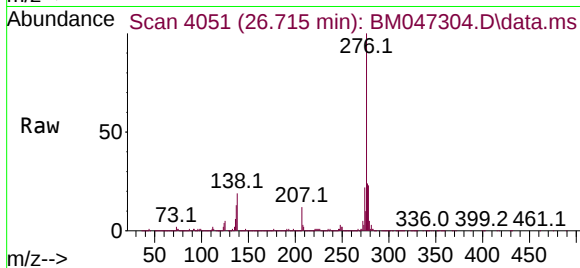
Tgt Ion:276 Resp: 3870987

Ion Ratio Lower Upper

276 100

138 21.8 19.4 29.0

277 24.7 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 51.522 ng

RT: 22.874 min Scan# 3398

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

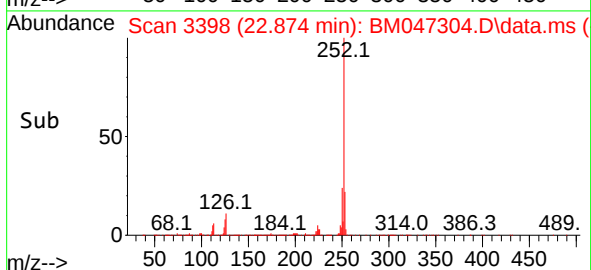
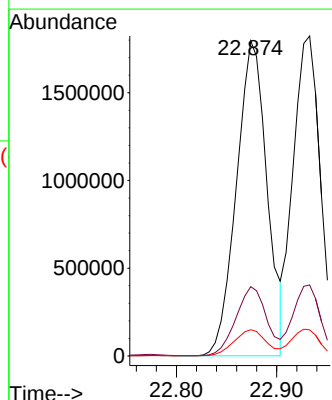
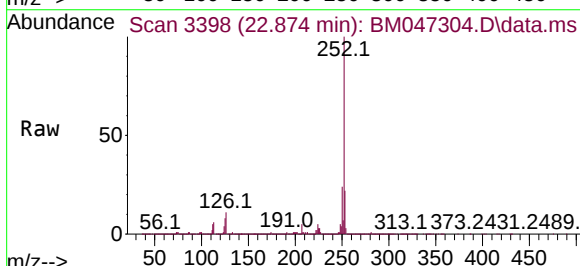
Tgt Ion:252 Resp: 3808791

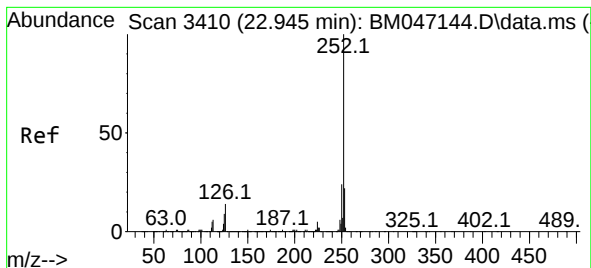
Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.6

125 8.3 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 49.148 ng

RT: 22.933 min Scan# 3410

Delta R.T. -0.012 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMS

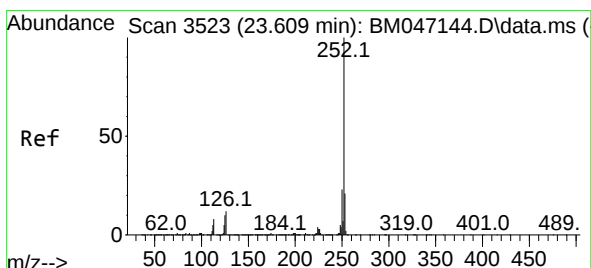
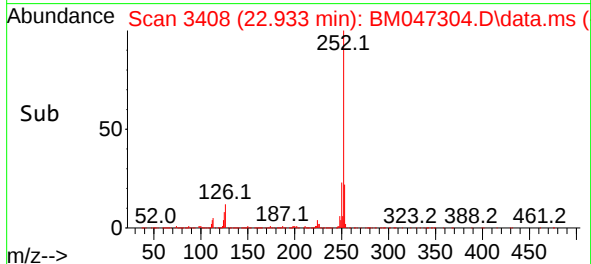
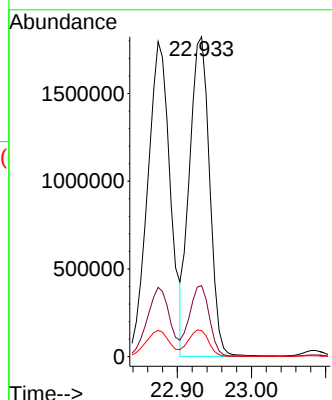
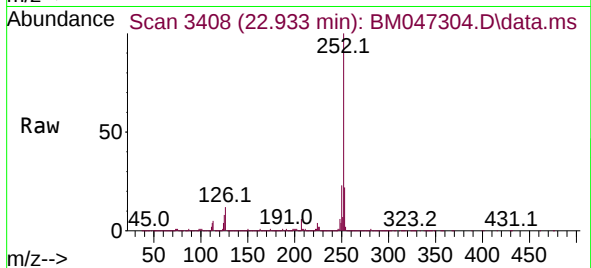
Tgt Ion:252 Resp: 3431805

Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

125 8.2 7.4 11.2



#90

Benzo(a)pyrene

Concen: 52.994 ng

RT: 23.592 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047304.D

Acq: 21 Aug 2024 19:05

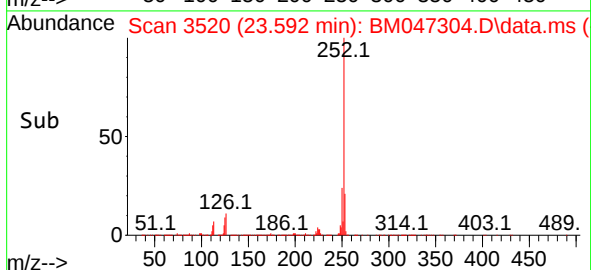
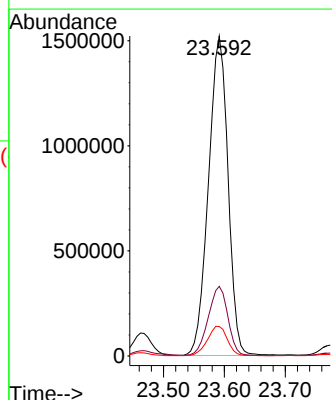
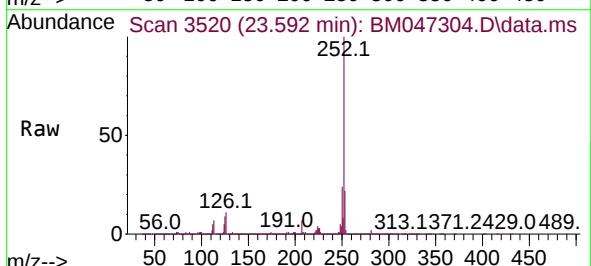
Tgt Ion:252 Resp: 3393647

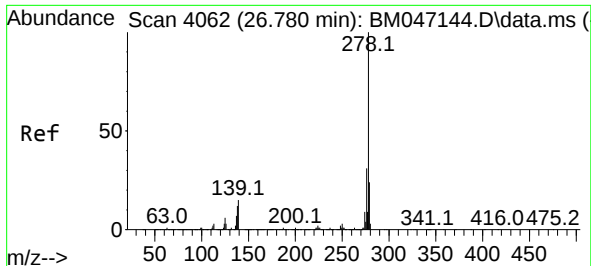
Ion Ratio Lower Upper

252 100

253 21.7 17.1 25.7

125 9.2 8.2 12.2

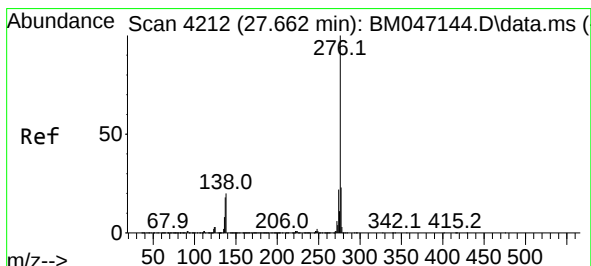
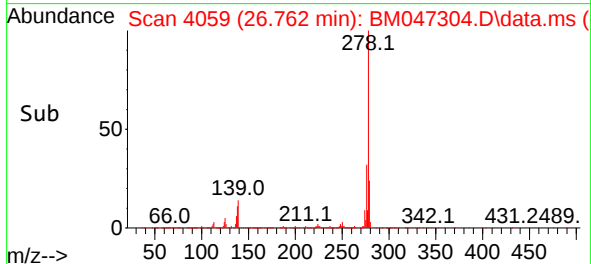
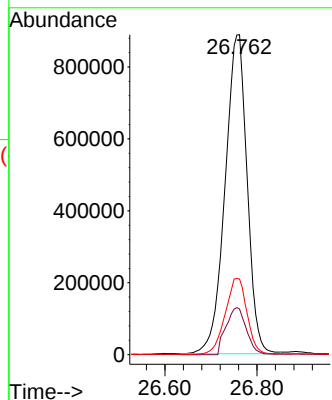
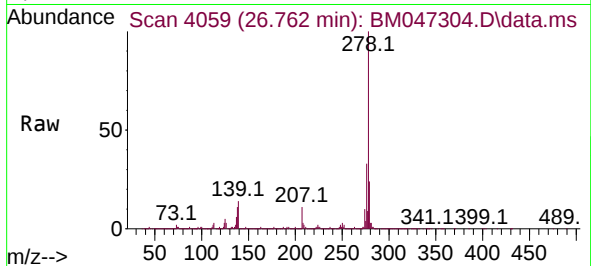




#91
Dibenzo(a,h)anthracene
Concen: 45.174 ng
RT: 26.762 min Scan# 4062
Delta R.T. -0.018 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMS

Tgt Ion:278 Resp: 2941564
Ion Ratio Lower Upper
278 100
139 14.3 12.0 18.0
279 23.7 19.2 28.8



#92
Benzo(g,h,i)perylene
Concen: 45.362 ng
RT: 27.638 min Scan# 4208
Delta R.T. -0.024 min
Lab File: BM047304.D
Acq: 21 Aug 2024 19:05

Tgt Ion:276 Resp: 3066801
Ion Ratio Lower Upper
276 100
277 24.4 18.8 28.2
138 19.4 16.2 24.4

