

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082124\
 Data File : BM047305.D
 Acq On : 21 Aug 2024 19:44
 Operator : RC/JU
 Sample : P3652-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

Quant Time: Aug 22 02:37:21 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	252324	20.000	ng	-0.02
21) Naphthalene-d8	10.110	136	962257	20.000	ng	-0.02
39) Acenaphthene-d10	14.016	164	634921	20.000	ng	-0.02
64) Phenanthrene-d10	16.780	188	1363136	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	1095166	20.000	ng	-0.01
86) Perylene-d12	23.709	264	1137934	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	1468880	104.019	ng	-0.01
7) Phenol-d6	6.575	99	1935936	99.494	ng	-0.01
23) Nitrobenzene-d5	8.504	82	1307976	68.444	ng	-0.02
42) 2,4,6-Tribromophenol	15.527	330	867856	117.883	ng	-0.01
45) 2-Fluorobiphenyl	12.621	172	3015331	73.257	ng	-0.02
79) Terphenyl-d14	19.445	244	4744838	92.836	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.022	88	214455	36.653	ng	96
3) Pyridine	3.393	79	583091	33.985	ng	97
4) n-Nitrosodimethylamine	3.316	42	282896	37.740	ng	99
6) Aniline	6.704	93	737324	40.091	ng	99
8) 2-Chlorophenol	6.934	128	717689	46.598	ng	97
9) Benzaldehyde	6.516	77	360714	32.939	ng	99
10) Phenol	6.598	94	826879	42.588	ng	99
11) bis(2-Chloroethyl)ether	6.804	93	679487	40.867	ng	98
12) 1,3-Dichlorobenzene	7.239	146	794983	43.437	ng	97
13) 1,4-Dichlorobenzene	7.387	146	802996	43.334	ng	98
14) 1,2-Dichlorobenzene	7.692	146	776073	44.387	ng	99
15) Benzyl Alcohol	7.610	79	632623	45.683	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.881	45	847710	39.732	ng	99
17) 2-Methylphenol	7.816	107	573665	44.288	ng	99
18) Hexachloroethane	8.404	117	302855	42.193	ng	94
19) n-Nitroso-di-n-propyla...	8.163	70	502762	38.360	ng	97
20) 3+4-Methylphenols	8.145	107	786988	43.460	ng	99
22) Acetophenone	8.175	105	978995	42.148	ng	99
24) Nitrobenzene	8.545	77	787143	40.906	ng	97
25) Isophorone	9.069	82	1442749	43.360	ng	98
26) 2-Nitrophenol	9.245	139	412984	48.461	ng	95
27) 2,4-Dimethylphenol	9.328	122	567593	56.859	ng	99
28) bis(2-Chloroethoxy)met...	9.551	93	889174	42.470	ng	100
29) 2,4-Dichlorophenol	9.781	162	744006	50.231	ng	98
30) 1,2,4-Trichlorobenzene	9.980	180	769054	45.880	ng	99
31) Naphthalene	10.157	128	2098061	43.768	ng	100
32) Benzoic acid	9.516	122	545078	46.998	ng	97
33) 4-Chloroaniline	10.286	127	622066	33.745	ng	99
34) Hexachlorobutadiene	10.439	225	486357	49.572	ng	99
35) Caprolactam	11.098	113	239002	46.464	ng	91
36) 4-Chloro-3-methylphenol	11.439	107	725951	46.021	ng	100
37) 2-Methylnaphthalene	11.786	142	1523803	44.646	ng	99
38) 1-Methylnaphthalene	12.010	142	1430233	42.400	ng	98
40) 1,2,4,5-Tetrachloroben...	12.169	216	857580	49.520	ng	99
41) Hexachlorocyclopentadiene	12.139	237	690903	114.253	ng	97
43) 2,4,6-Trichlorophenol	12.427	196	621915	50.525	ng	99

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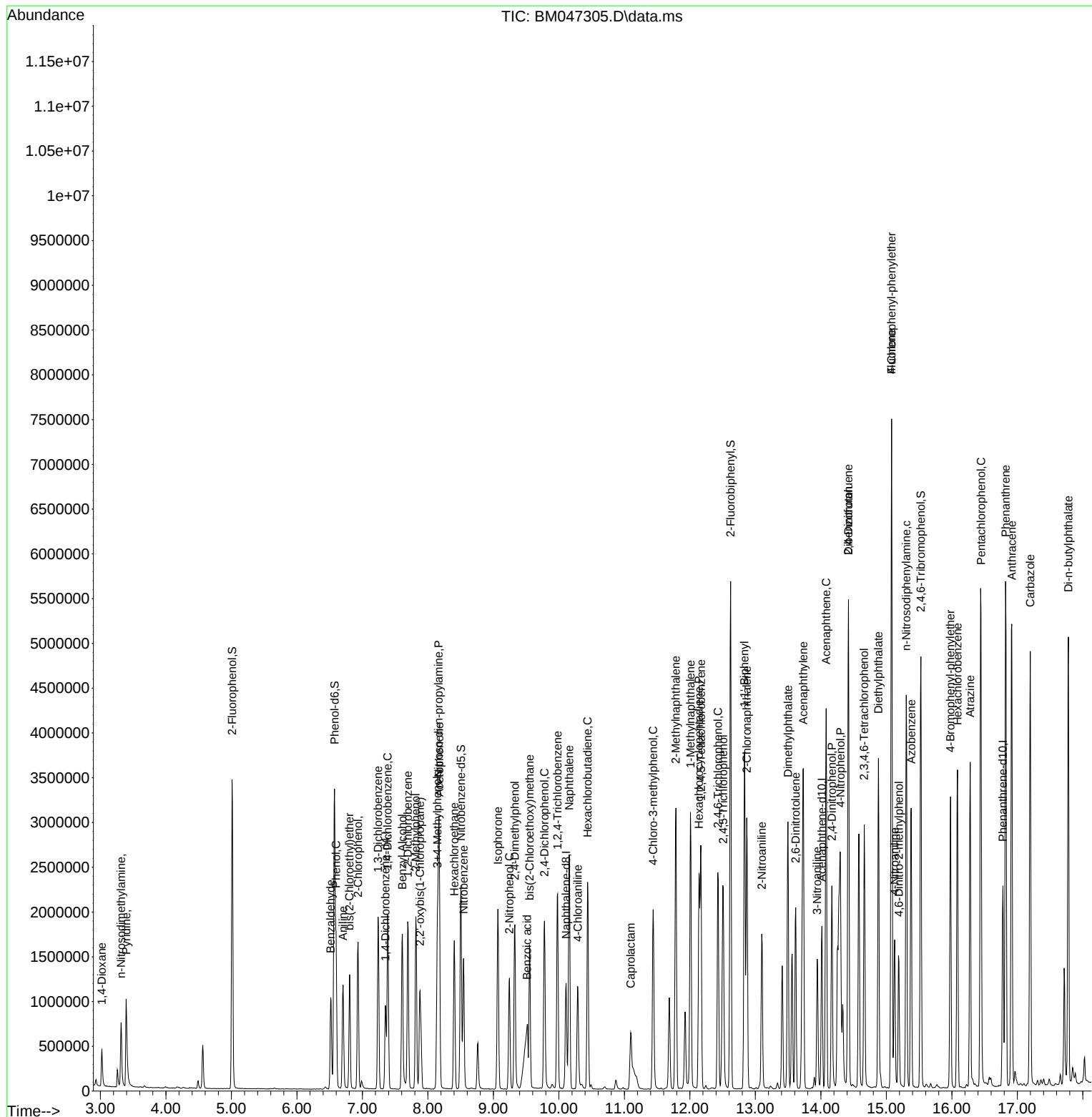
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.510	196	678763	49.666	ng	96
46) 1,1'-Biphenyl	12.833	154	1995577	44.149	ng	99
47) 2-Chloronaphthalene	12.869	162	1545181	43.737	ng	98
48) 2-Nitroaniline	13.098	65	485207	43.839	ng	98
49) Acenaphthylene	13.733	152	2518813	48.368	ng	100
50) Dimethylphthalate	13.498	163	2015742	45.458	ng	99
51) 2,6-Dinitrotoluene	13.616	165	458303	44.213	ng	88
52) Acenaphthene	14.080	154	1518136	45.957	ng	98
53) 3-Nitroaniline	13.945	138	382586	36.833	ng	99
54) 2,4-Dinitrophenol	14.168	184	532847	85.767	ng	92
55) Dibenzofuran	14.421	168	2384419	45.697	ng	97
56) 4-Nitrophenol	14.298	139	802092	89.551	ng	97
57) 2,4-Dinitrotoluene	14.421	165	618992	44.738	ng	96
58) Fluorene	15.080	166	1937951	45.013	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.663	232	591926	52.700	ng	93
60) Diethylphthalate	14.880	149	1989336	43.932	ng	98
61) 4-Chlorophenyl-phenyle...	15.080	204	958445	46.761	ng	96
62) 4-Nitroaniline	15.127	138	446509	43.634	ng	94
63) Azobenzene	15.380	77	1800366	41.932	ng	94
65) 4,6-Dinitro-2-methylph...	15.192	198	353806	44.331	ng	89
66) n-Nitrosodiphenylamine	15.304	169	1712057	46.112	ng	98
67) 4-Bromophenyl-phenylether	15.980	248	636210	48.435	ng	98
68) Hexachlorobenzene	16.086	284	736949	46.845	ng	95
69) Atrazine	16.280	200	669177	59.895	ng	98
70) Pentachlorophenol	16.445	266	1037620	94.093	ng	99
71) Phenanthrene	16.821	178	3458371	50.553	ng	100
72) Anthracene	16.915	178	3286172	49.368	ng	100
73) Carbazole	17.198	167	3095206	45.542	ng	99
74) Di-n-butylphthalate	17.780	149	3708830	46.899	ng	99
75) Fluoranthene	18.856	202	4488437	53.942	ng	99
77) Benzidine	19.062	184	1617128	87.072	ng	100
78) Pyrene	19.227	202	4661610	59.613	ng	99
80) Butylbenzylphthalate	20.162	149	1689290	52.935	ng	94
81) Benzo(a)anthracene	21.003	228	3781045	52.006	ng	99
82) 3,3'-Dichlorobenzidine	20.944	252	1187179	52.189	ng	99
83) Chrysene	21.062	228	3492697	50.634	ng	99
84) Bis(2-ethylhexyl)phtha...	20.962	149	2328412	51.448	ng	# 98
85) Di-n-octyl phthalate	21.991	149	4057834	52.751	ng	97
87) Indeno(1,2,3-cd)pyrene	26.715	276	3843868	52.259	ng	98
88) Benzo(b)fluoranthene	22.874	252	3487370	51.606	ng	99
89) Benzo(k)fluoranthene	22.927	252	3060063	47.941	ng	99
90) Benzo(a)pyrene	23.591	252	3143585	53.700	ng	98
91) Dibenzo(a,h)anthracene	26.756	278	2903772	48.782	ng	99
92) Benzo(g,h,i)perylene	27.632	276	3045162	49.273	ng	98

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

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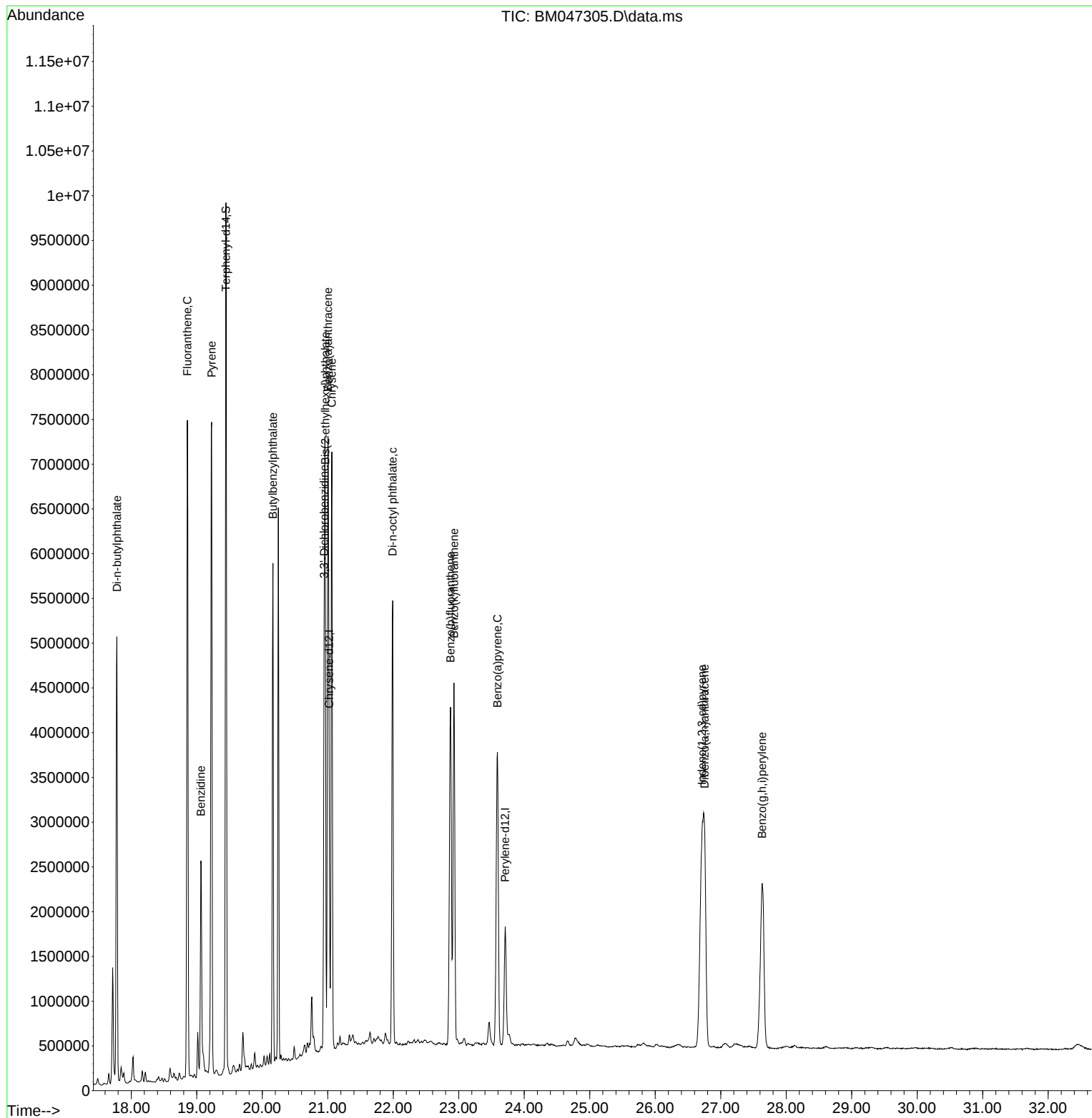
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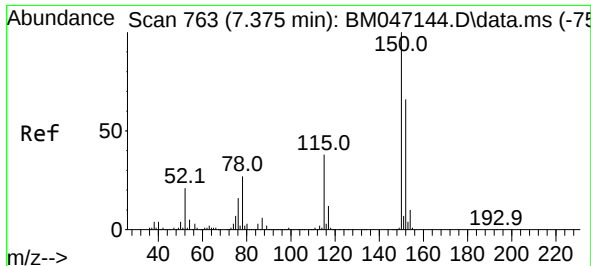


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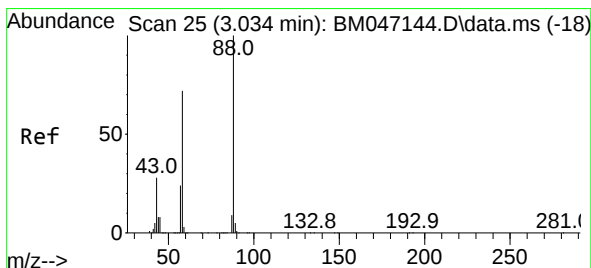
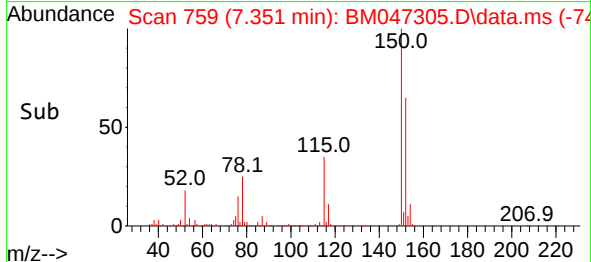
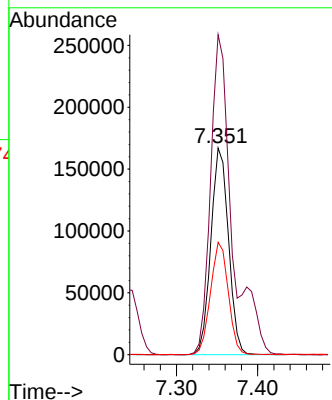
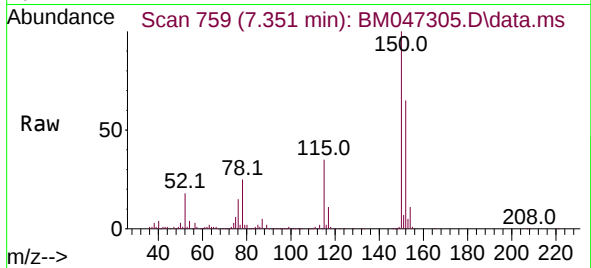




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.351 min Scan# 7
Delta R.T. -0.024 min
Lab File: BM047305.D
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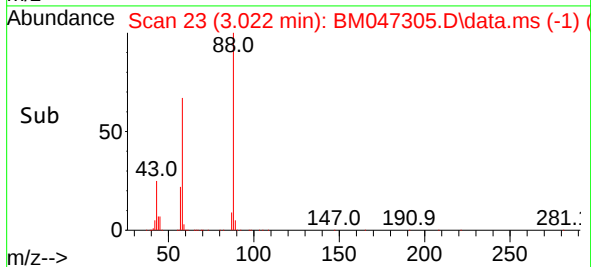
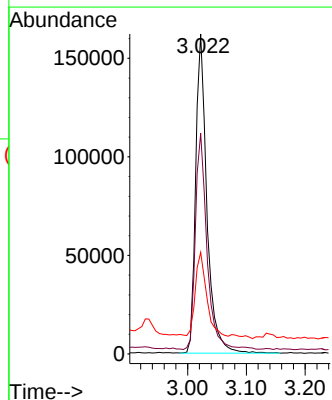
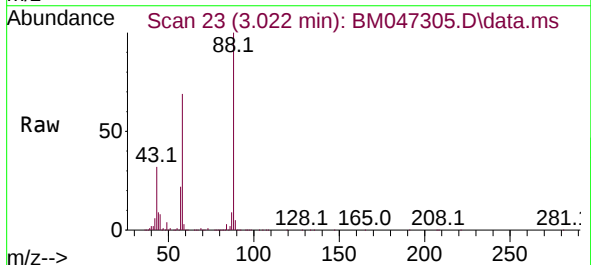
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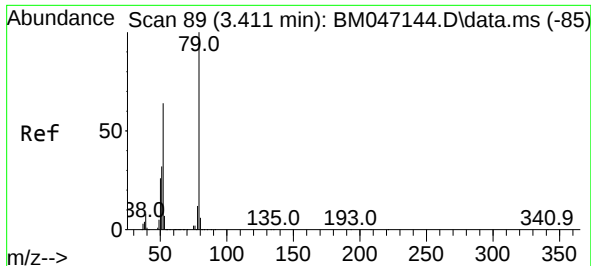
Tgt Ion:152 Resp: 252324
Ion Ratio Lower Upper
152 100
150 154.7 120.5 180.7
115 54.3 45.5 68.3



#2
1,4-Dioxane
Concen: 36.653 ng
RT: 3.022 min Scan# 23
Delta R.T. -0.012 min
Lab File: BM047305.D
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Tgt Ion: 88 Resp: 214455
Ion Ratio Lower Upper
88 100
58 69.7 58.2 87.4
43 26.0 22.5 33.7

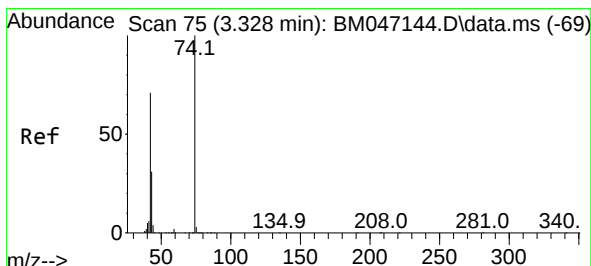
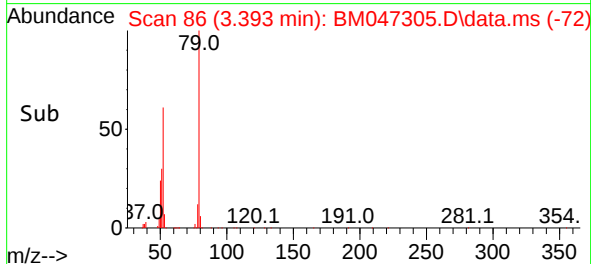
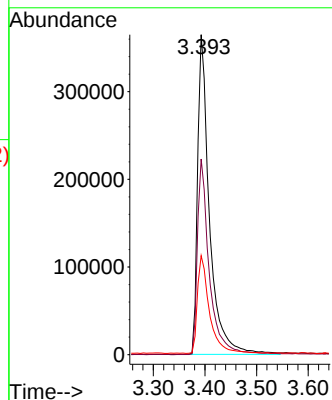
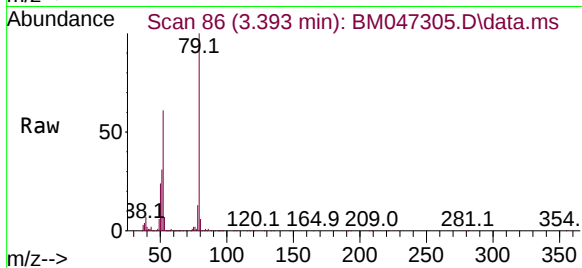




#3
Pyridine
Concen: 33.985 ng
RT: 3.393 min Scan# 80
Delta R.T. -0.018 min
Lab File: BM047305.D
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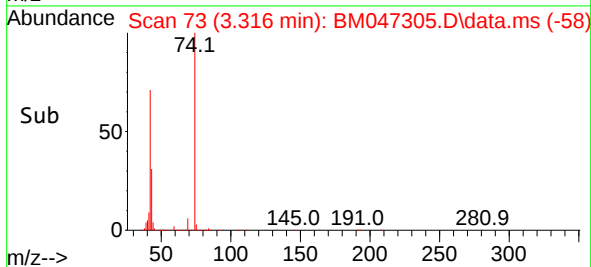
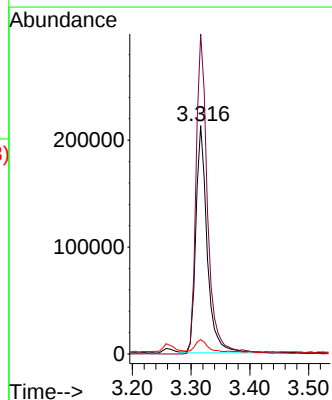
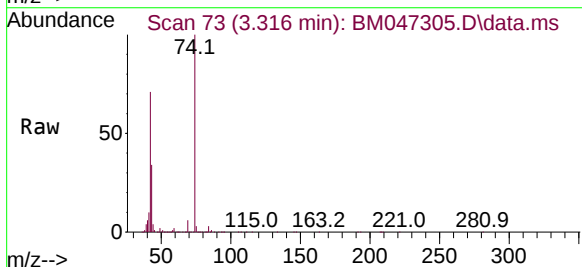
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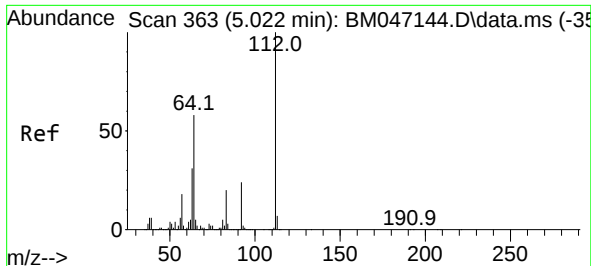
Tgt Ion: 79 Resp: 583091
Ion Ratio Lower Upper
79 100
52 61.1 51.2 76.8
51 30.9 26.1 39.1



#4
n-Nitrosodimethylamine
Concen: 37.740 ng
RT: 3.316 min Scan# 73
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 42 Resp: 282896
Ion Ratio Lower Upper
42 100
74 140.2 112.9 169.3
44 6.3 5.3 7.9

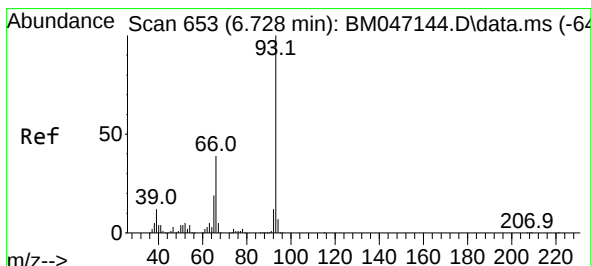
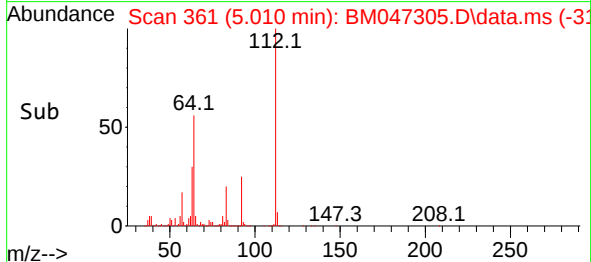
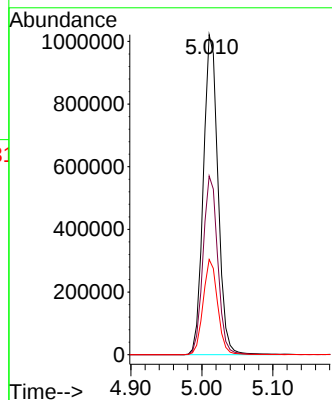
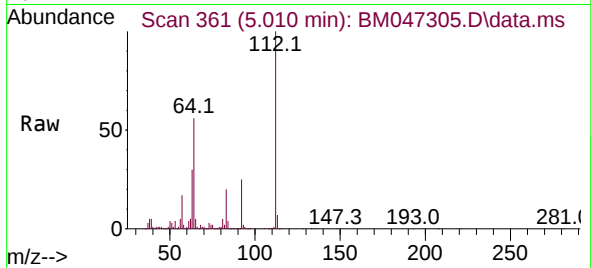




#5
2-Fluorophenol
Concen: 104.019 ng
RT: 5.010 min Scan# 361
Delta R.T. -0.012 min
Lab File: BM047305.D
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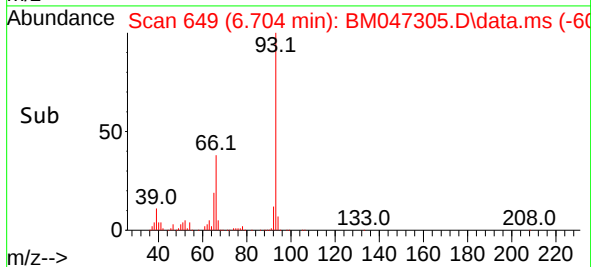
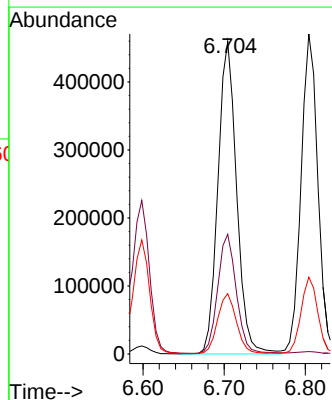
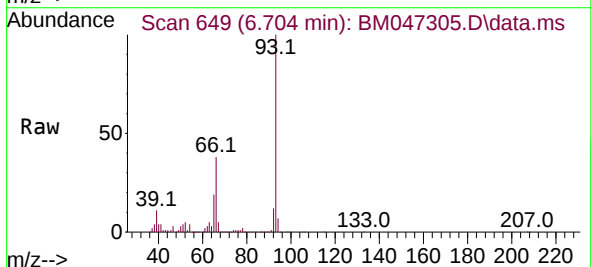
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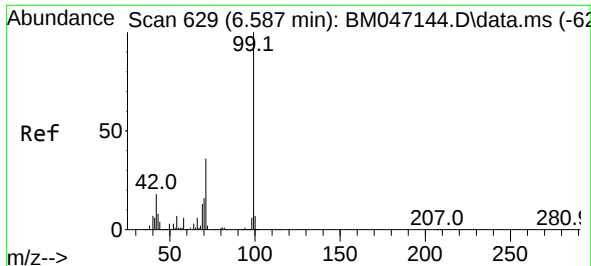
Tgt Ion:112 Resp: 1468880
Ion Ratio Lower Upper
112 100
64 55.8 46.7 70.1
63 29.7 24.8 37.2



#6
Aniline
Concen: 40.091 ng
RT: 6.704 min Scan# 649
Delta R.T. -0.024 min
Lab File: BM047305.D
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Tgt Ion: 93 Resp: 737324
Ion Ratio Lower Upper
93 100
66 38.3 31.4 47.2
65 19.3 15.6 23.4

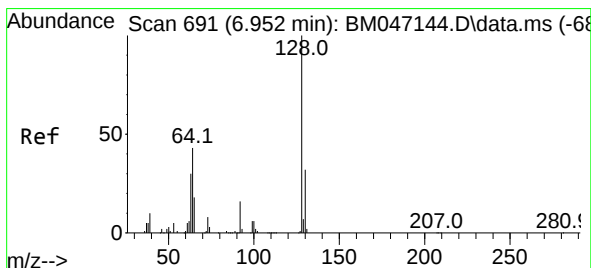
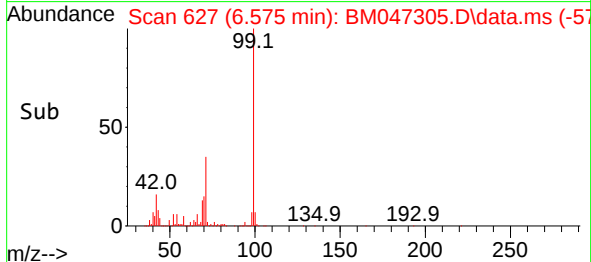
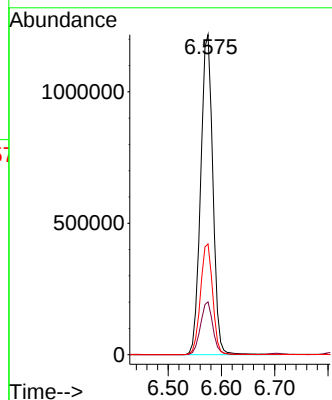
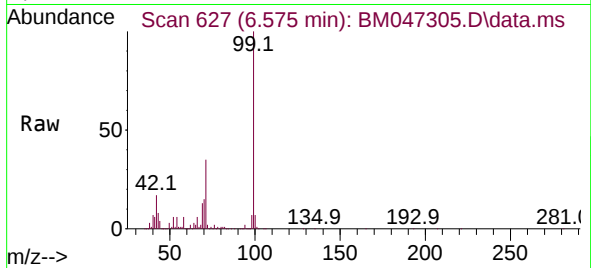




#7
Phenol-d6
Concen: 99.494 ng
RT: 6.575 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM047305.D
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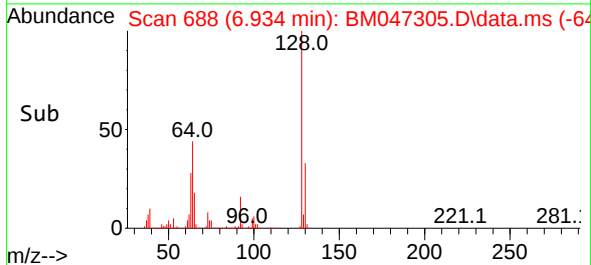
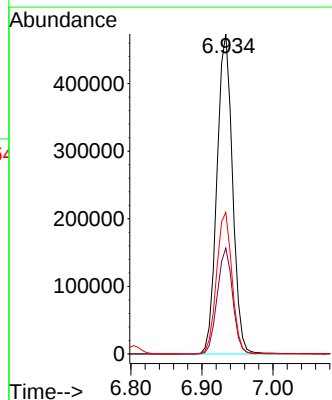
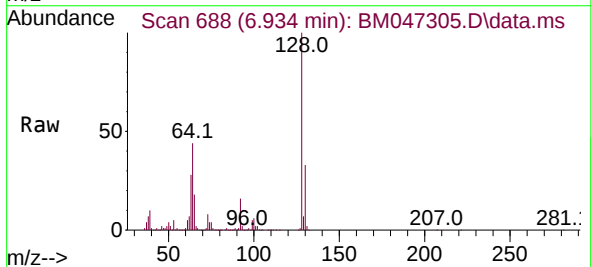
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Tgt Ion: 99 Resp: 1935936
Ion Ratio Lower Upper
99 100
42 16.5 14.1 21.1
71 34.6 28.5 42.7



#8
2-Chlorophenol
Concen: 46.598 ng
RT: 6.934 min Scan# 688
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 128 Resp: 717689
Ion Ratio Lower Upper
128 100
130 33.1 12.1 52.1
64 44.3 26.6 66.6

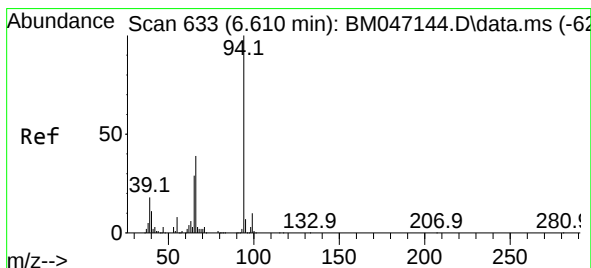
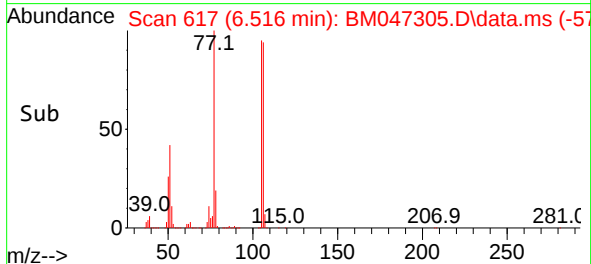
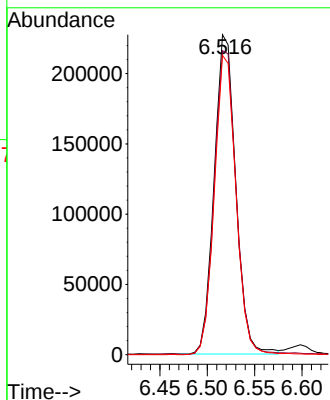
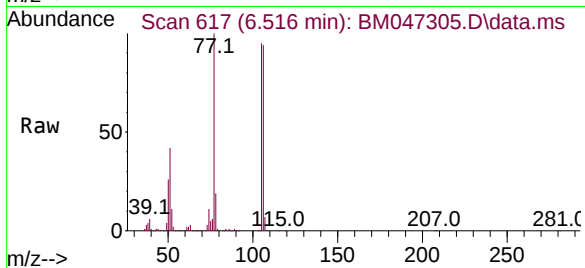




#9
Benzaldehyde
Concen: 32.939 ng
RT: 6.516 min Scan# 617
Delta R.T. -0.024 min
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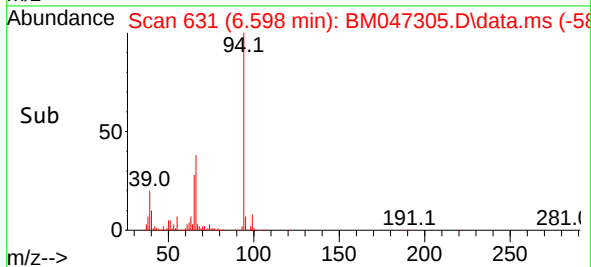
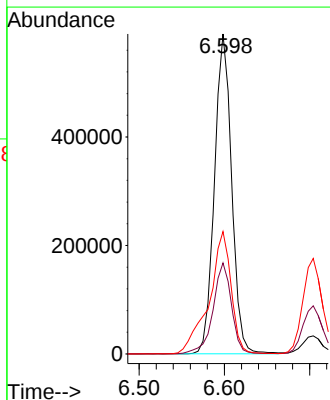
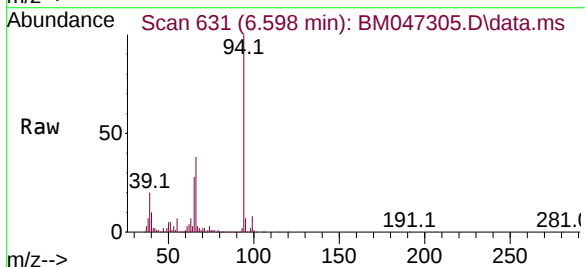
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion: 77 Resp: 360714
Ion Ratio Lower Upper
77 100
105 95.0 74.5 114.5
106 93.5 72.3 112.3



#10
Phenol
Concen: 42.588 ng
RT: 6.598 min Scan# 631
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 94 Resp: 826879
Ion Ratio Lower Upper
94 100
65 28.5 9.0 49.0
66 38.3 18.9 58.9

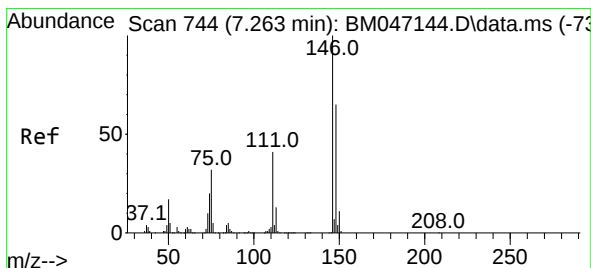
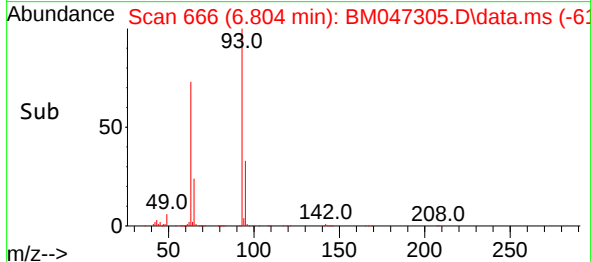
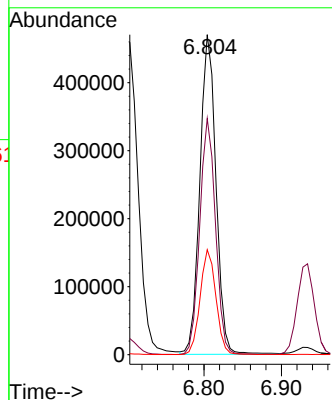
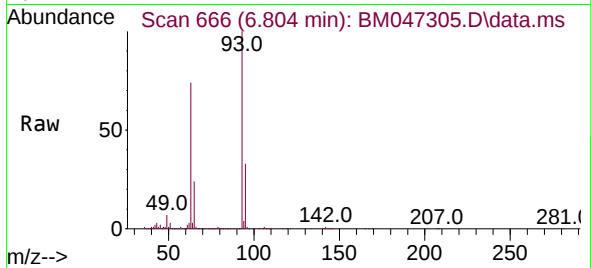




#11
bis(2-Chloroethyl)ether
Concen: 40.867 ng
RT: 6.804 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

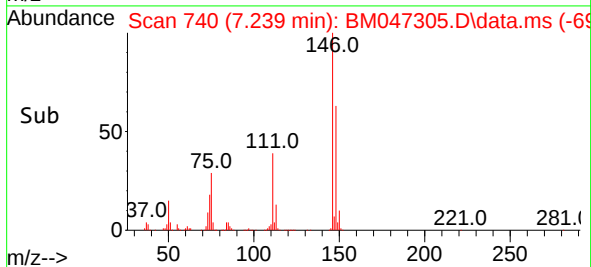
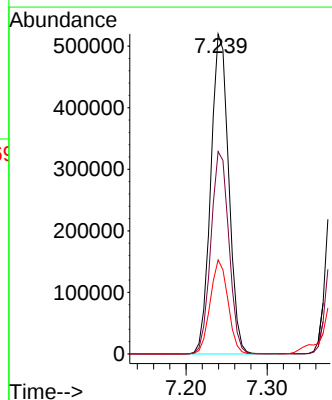
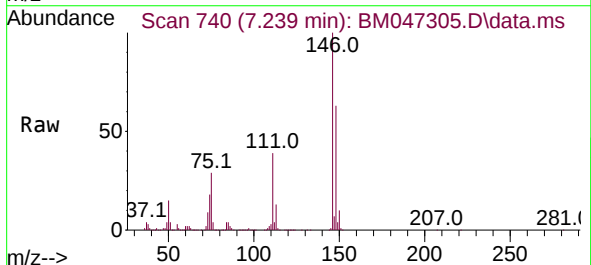
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

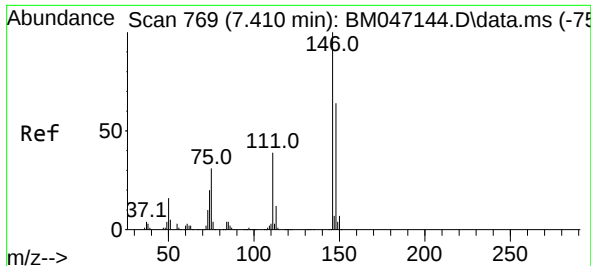
Tgt Ion: 93 Resp: 679487
Ion Ratio Lower Upper
93 100
63 73.8 55.8 95.8
95 32.8 12.7 52.7



#12
1,3-Dichlorobenzene
Concen: 43.437 ng
RT: 7.239 min Scan# 740
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 146 Resp: 794983
Ion Ratio Lower Upper
146 100
148 63.3 52.3 78.5
75 29.4 25.8 38.6

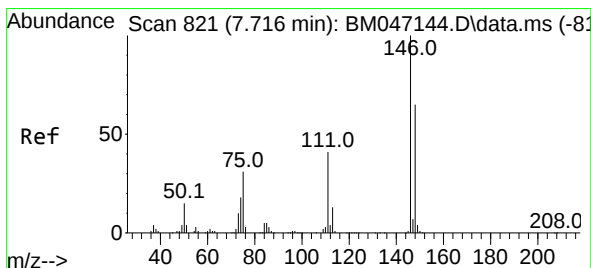
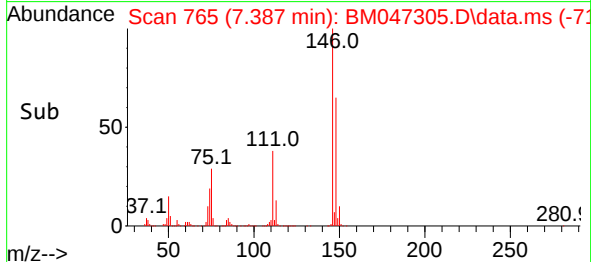
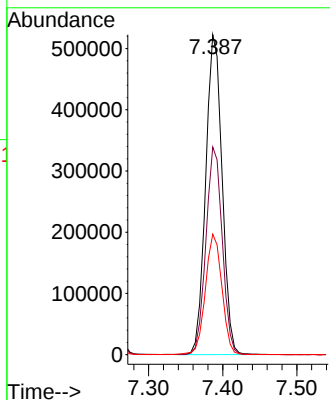
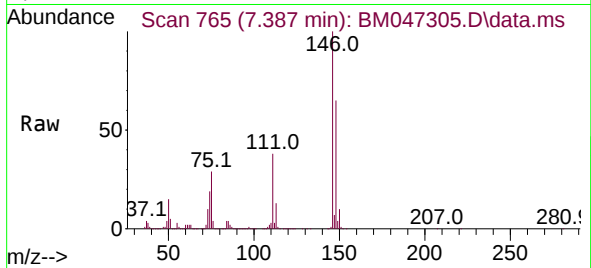




#13
1,4-Dichlorobenzene
Concen: 43.334 ng
RT: 7.387 min Scan# 701
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

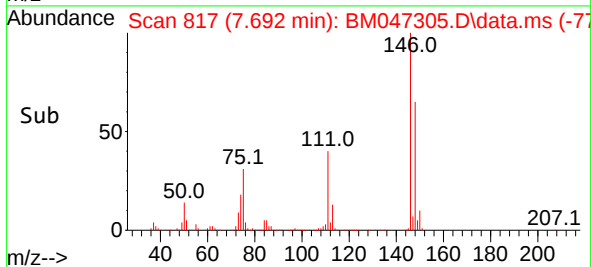
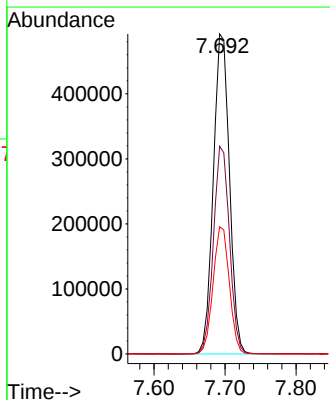
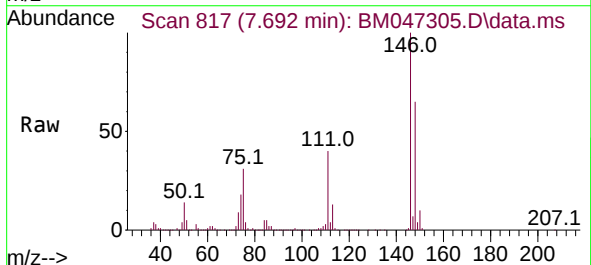
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:146 Resp: 802996
Ion Ratio Lower Upper
146 100
148 64.9 51.4 77.2
111 37.6 31.5 47.3



#14
1,2-Dichlorobenzene
Concen: 44.387 ng
RT: 7.692 min Scan# 817
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:146 Resp: 776073
Ion Ratio Lower Upper
146 100
148 64.9 51.8 77.8
111 39.8 33.3 49.9

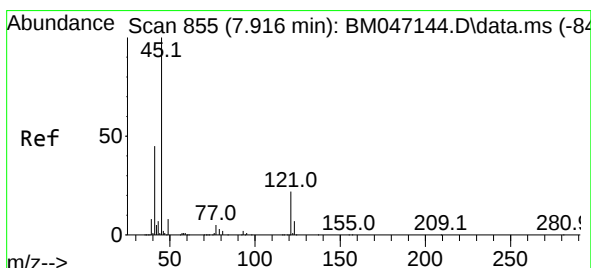
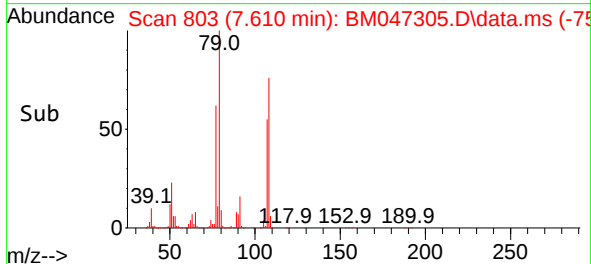
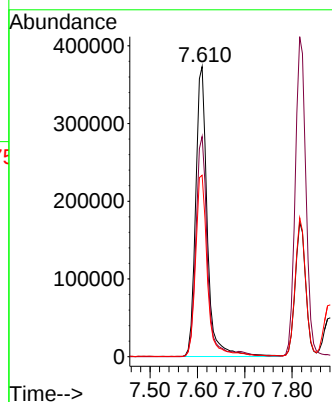
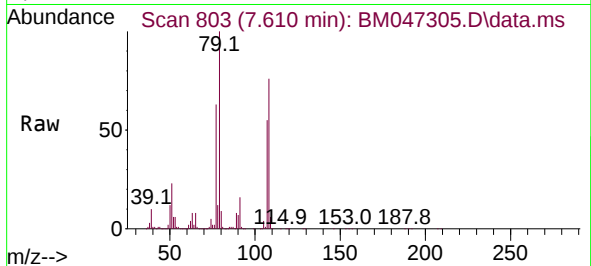




#15
Benzyl Alcohol
Concen: 45.683 ng
RT: 7.610 min Scan# 803
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

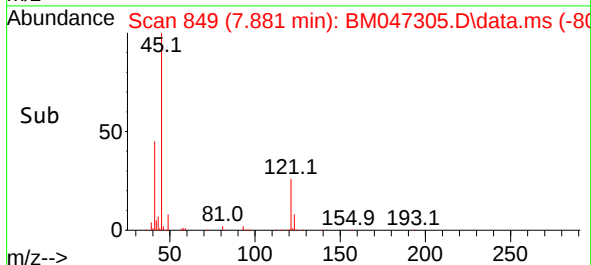
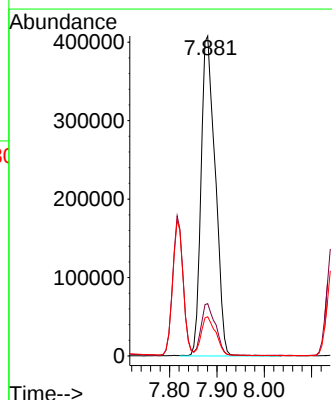
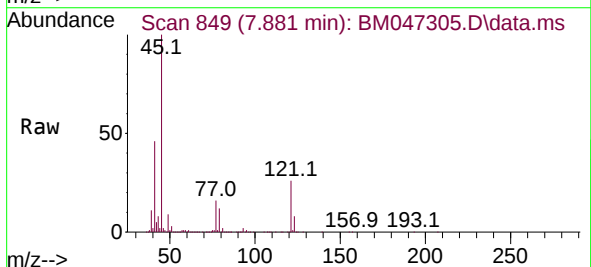
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

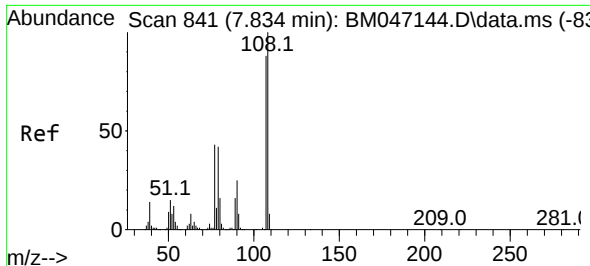
Tgt Ion: 79 Resp: 632623
Ion Ratio Lower Upper
79 100
108 75.9 59.7 89.5
77 62.6 52.9 79.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.732 ng
RT: 7.881 min Scan# 849
Delta R.T. -0.036 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

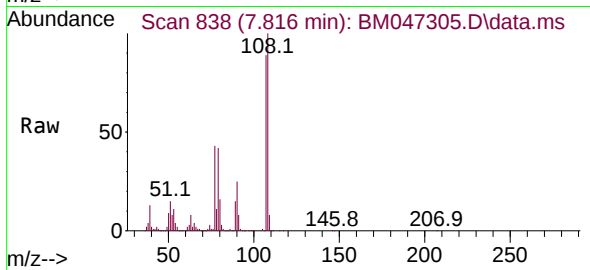
Tgt Ion: 45 Resp: 847710
Ion Ratio Lower Upper
45 100
77 16.3 0.0 35.6
79 12.3 0.0 32.4



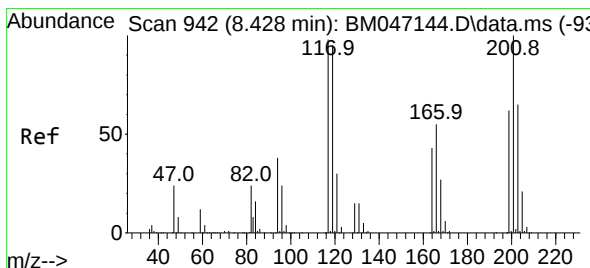
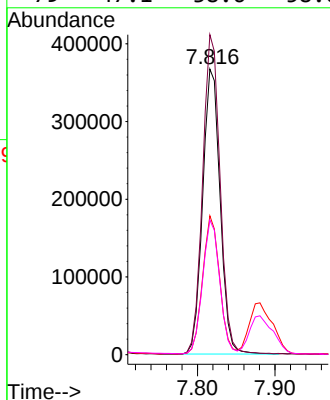
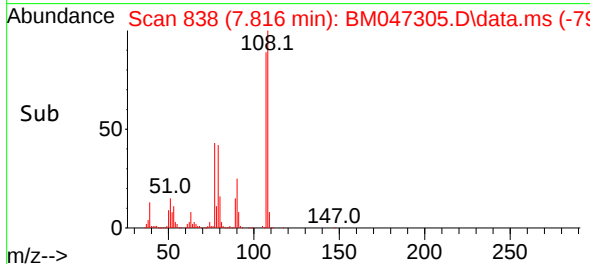


#17
2-Methylphenol
Concen: 44.288 ng
RT: 7.816 min Scan# 81
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

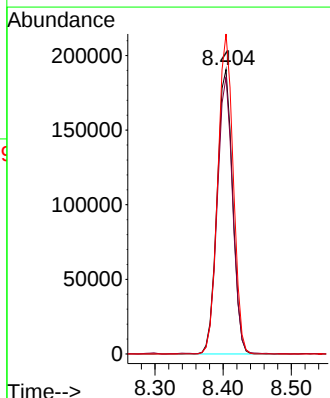
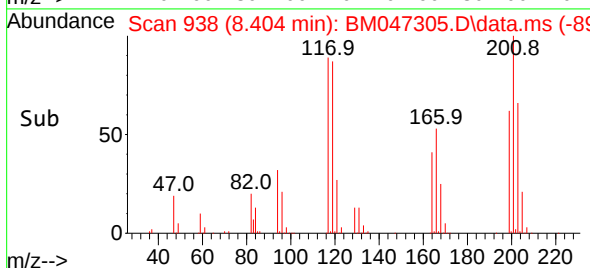
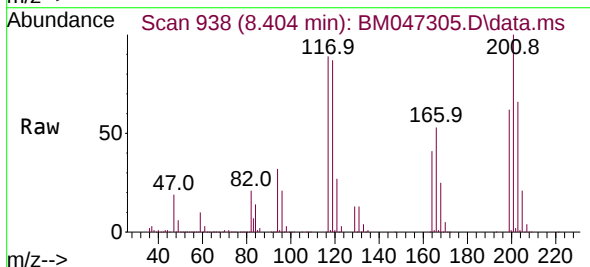


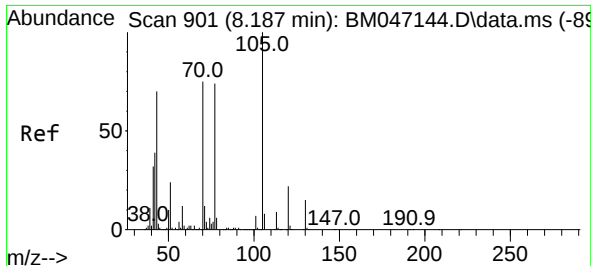
Tgt Ion:	107	Resp:	573665
Ion	Ratio	Lower	Upper
107	100		
108	112.1	90.6	135.8
77	48.6	39.3	58.9
79	47.1	38.6	58.0



#18
Hexachloroethane
Concen: 42.193 ng
RT: 8.404 min Scan# 938
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:	117	Resp:	302855
Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.0	115.4
201	112.5	81.3	121.9



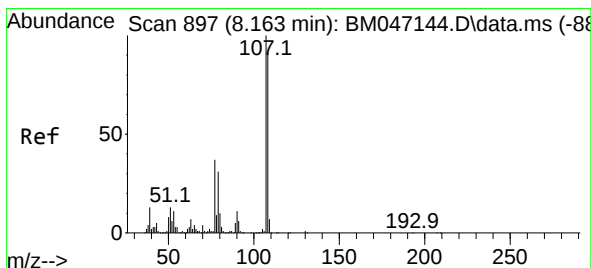
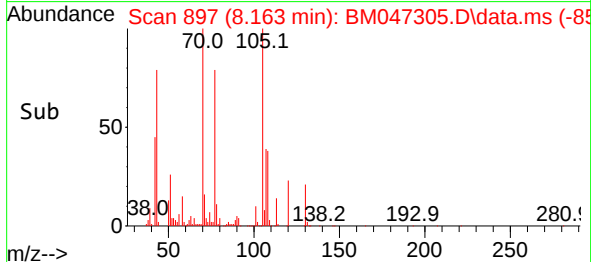
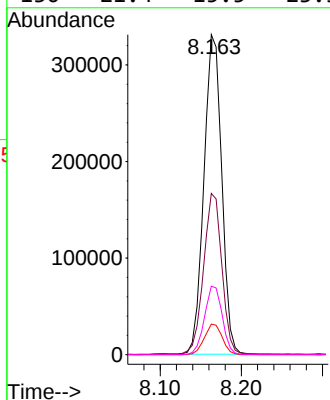
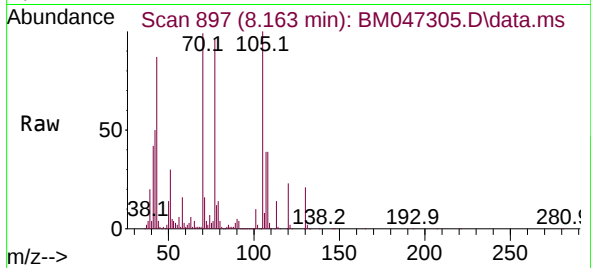


#19
n-Nitroso-di-n-propylamine
Concen: 38.360 ng
RT: 8.163 min Scan# 897
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion: 70 Resp: 502762

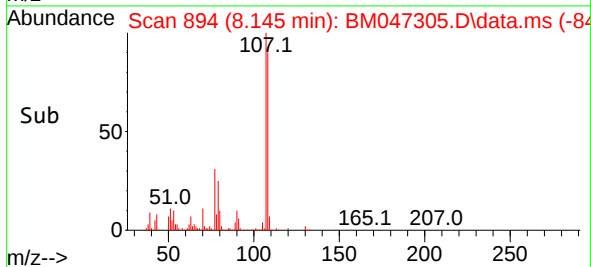
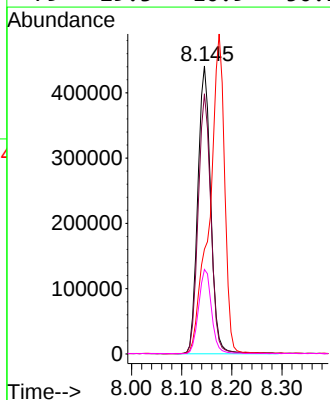
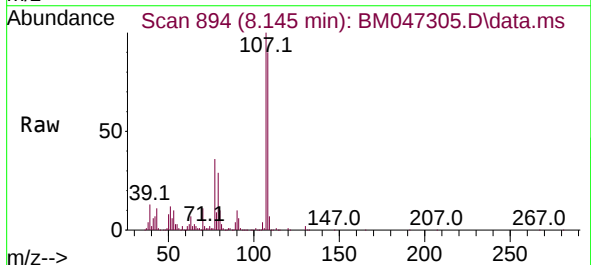
Ion	Ratio	Lower	Upper
70	100		
42	50.4	42.0	63.0
101	9.6	7.2	10.8
130	21.4	15.5	23.3



#20
3+4-Methylphenols
Concen: 43.460 ng
RT: 8.145 min Scan# 894
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 107 Resp: 786988

Ion	Ratio	Lower	Upper
107	100		
108	90.3	70.7	110.7
77	36.4	17.4	57.4
79	29.3	10.9	50.9

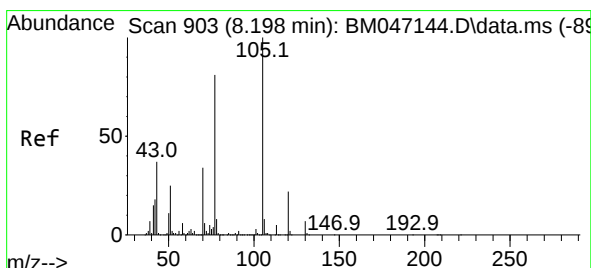
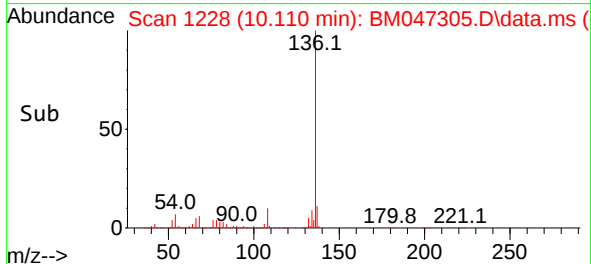
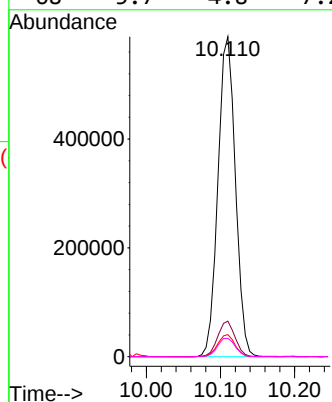
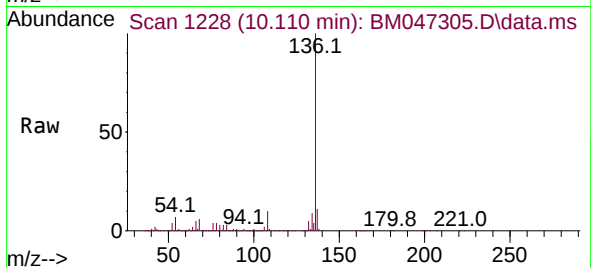




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.110 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

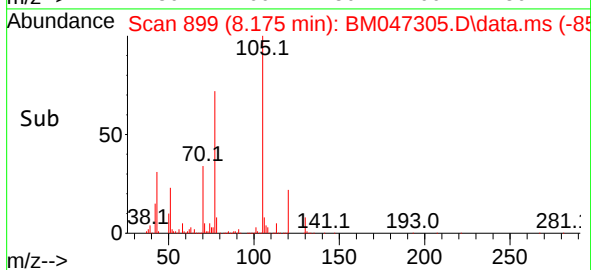
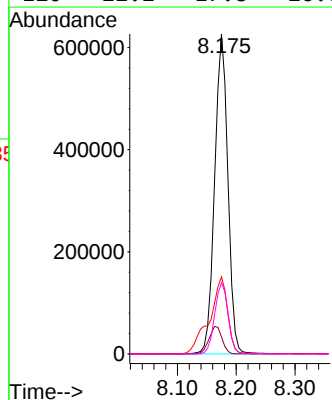
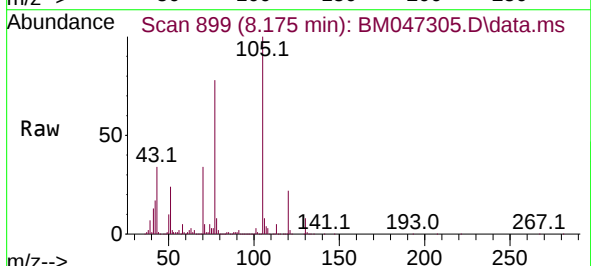
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

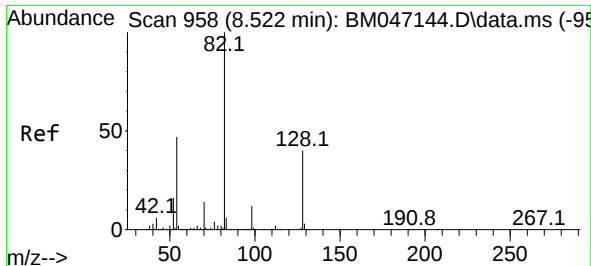
Tgt Ion:	136	Resp:	962257
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	6.9	6.0	9.0
68	5.7	4.8	7.2



#22
Acetophenone
Concen: 42.148 ng
RT: 8.175 min Scan# 899
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:	105	Resp:	978995
Ion	Ratio	Lower	Upper
105	100		
71	5.4	4.5	6.7
51	24.1	20.1	30.1
120	22.2	17.8	26.6

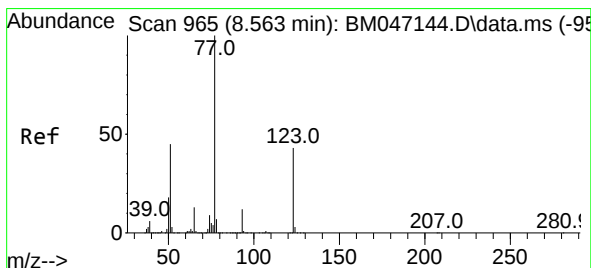
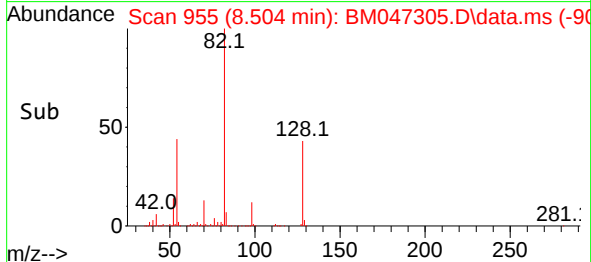
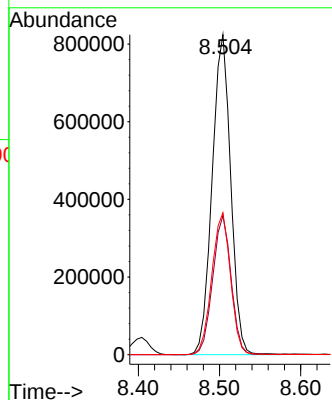
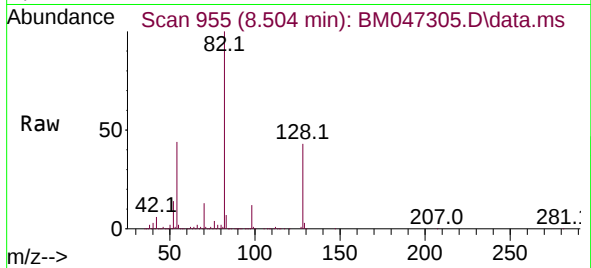




#23
Nitrobenzene-d5
Concen: 68.444 ng
RT: 8.504 min Scan# 91
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

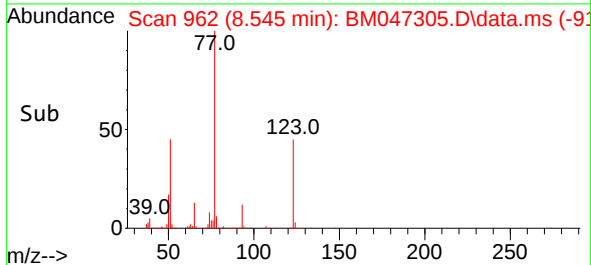
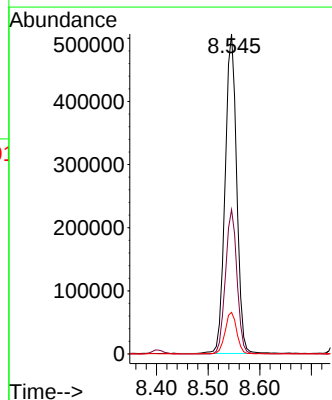
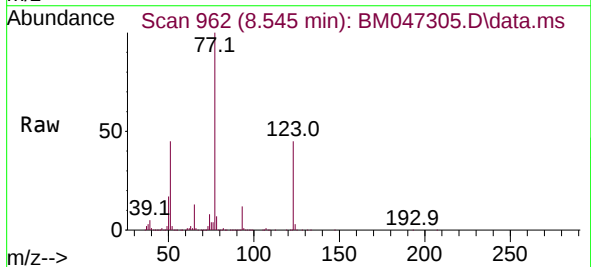
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

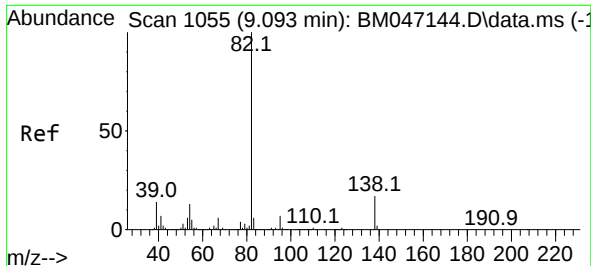
Tgt Ion: 82 Resp: 1307976
Ion Ratio Lower Upper
82 100
128 43.4 32.3 48.5
54 44.4 37.4 56.2



#24
Nitrobenzene
Concen: 40.906 ng
RT: 8.545 min Scan# 962
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion: 77 Resp: 787143
Ion Ratio Lower Upper
77 100
123 45.1 34.0 51.0
65 13.0 10.5 15.7

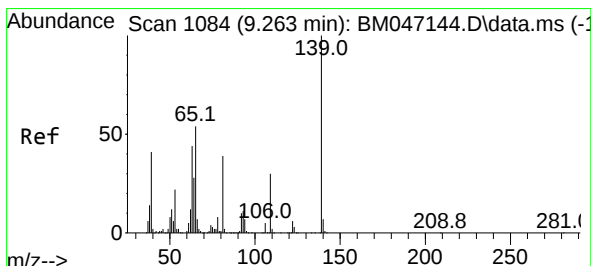
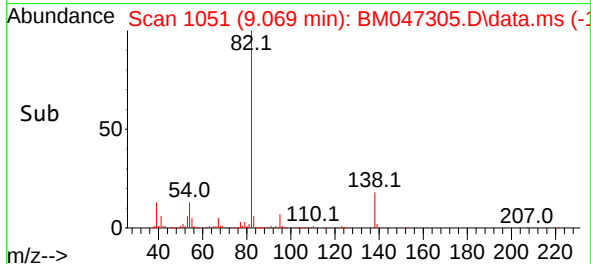
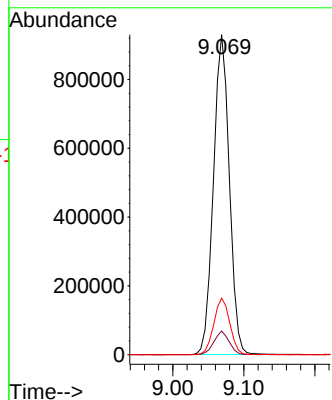
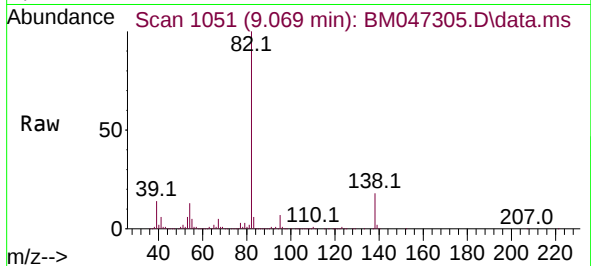




#25
Isophorone
Concen: 43.360 ng
RT: 9.069 min Scan# 1051
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

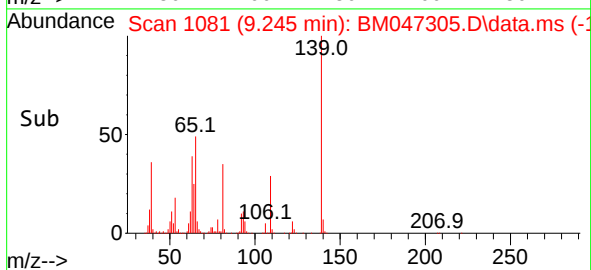
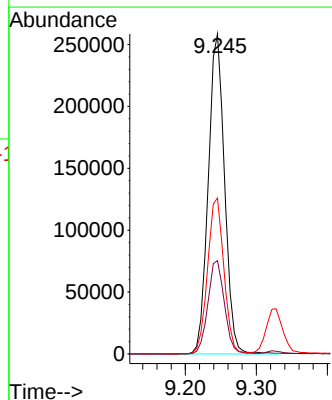
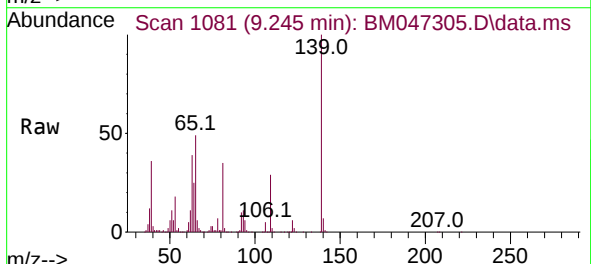
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

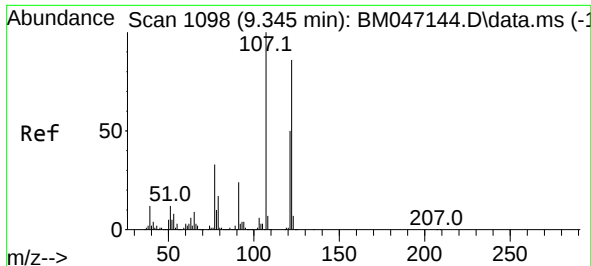
Tgt Ion: 82 Resp: 1442749
Ion Ratio Lower Upper
82 100
95 7.4 5.5 8.3
138 17.7 13.5 20.3



#26
2-Nitrophenol
Concen: 48.461 ng
RT: 9.245 min Scan# 1081
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:139 Resp: 412984
Ion Ratio Lower Upper
139 100
109 29.1 24.4 36.6
65 48.8 43.0 64.6





#27

2,4-Dimethylphenol

Concen: 56.859 ng

RT: 9.328 min Scan# 1109

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

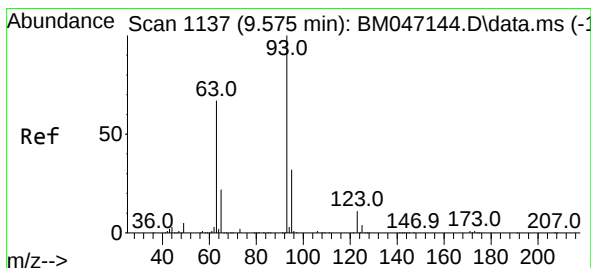
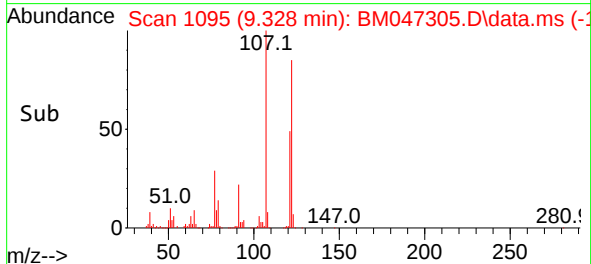
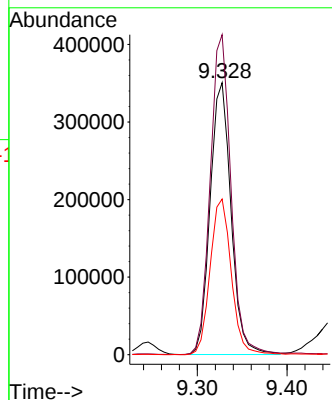
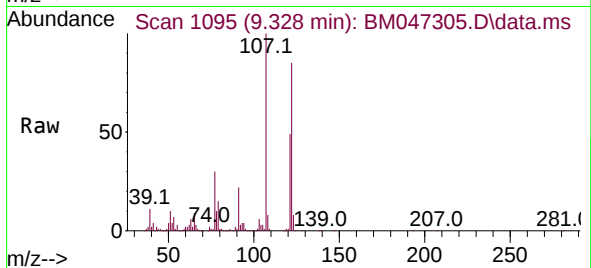
Tgt Ion:122 Resp: 567593

Ion Ratio Lower Upper

122 100

107 117.6 92.8 139.2

121 57.3 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 42.470 ng

RT: 9.551 min Scan# 1133

Delta R.T. -0.024 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

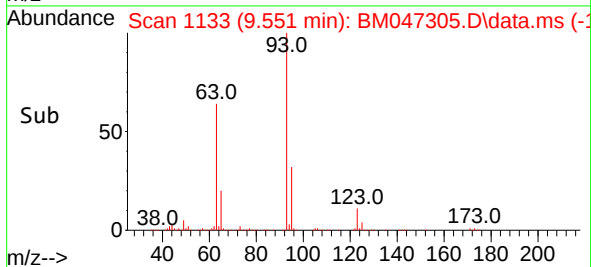
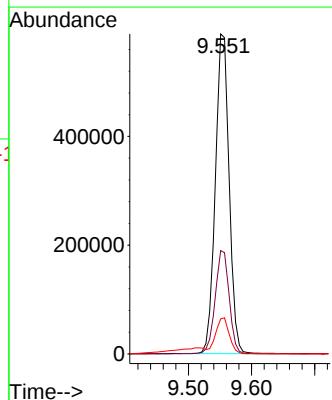
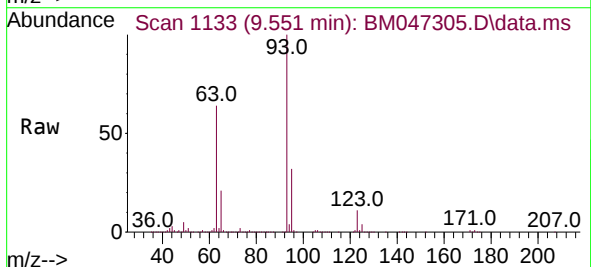
Tgt Ion: 93 Resp: 889174

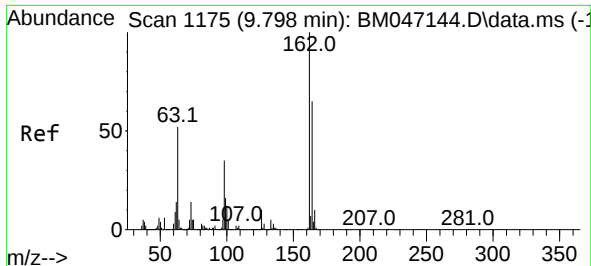
Ion Ratio Lower Upper

93 100

95 32.3 25.8 38.8

123 10.9 9.0 13.4





#29

2,4-Dichlorophenol

Concen: 50.231 ng

RT: 9.781 min Scan# 1175

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

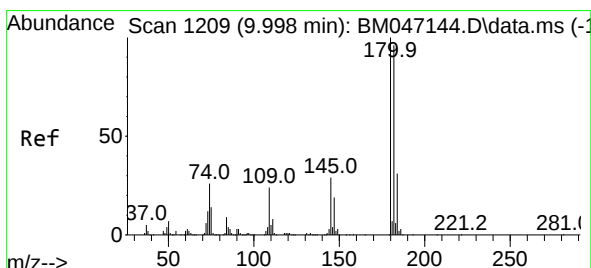
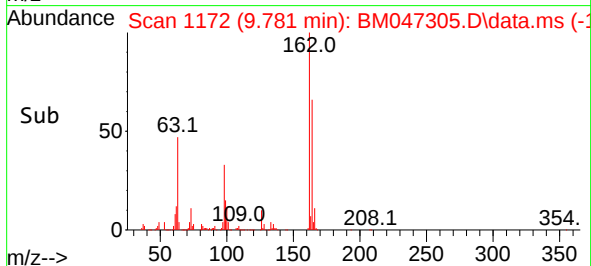
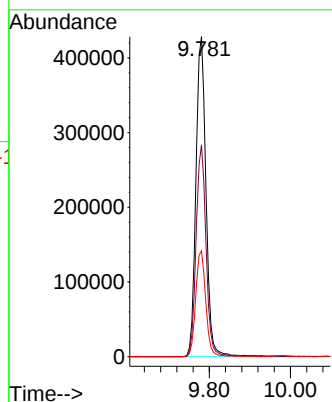
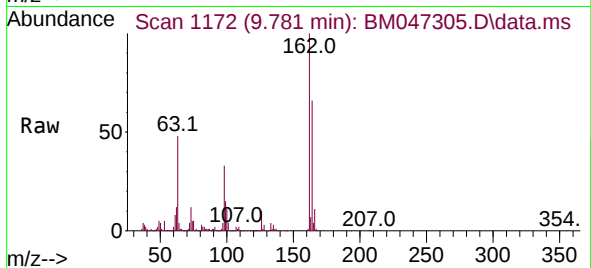
Tgt Ion:162 Resp: 744006

Ion Ratio Lower Upper

162 100

164 66.2 44.7 84.7

98 33.1 14.9 54.9



#30

1,2,4-Trichlorobenzene

Concen: 45.880 ng

RT: 9.980 min Scan# 1206

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

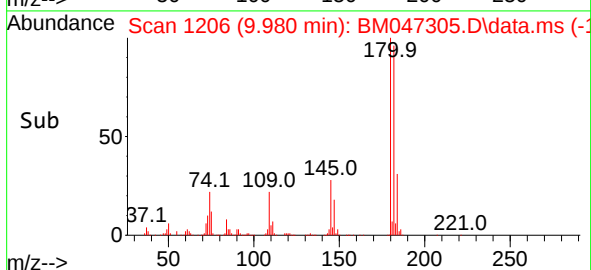
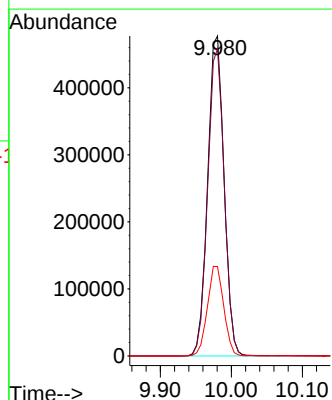
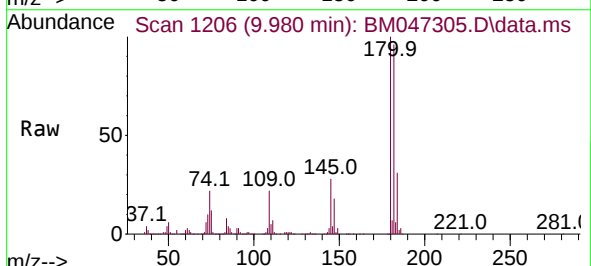
Tgt Ion:180 Resp: 769054

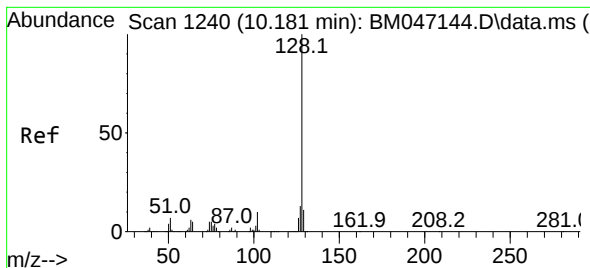
Ion Ratio Lower Upper

180 100

182 96.1 76.6 115.0

145 28.0 23.4 35.2

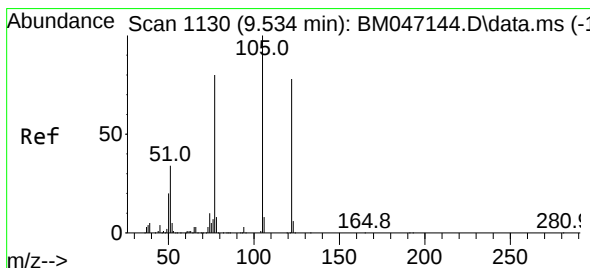
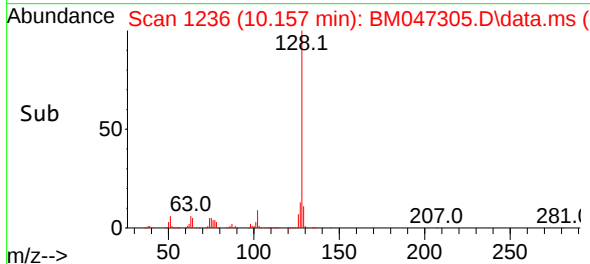
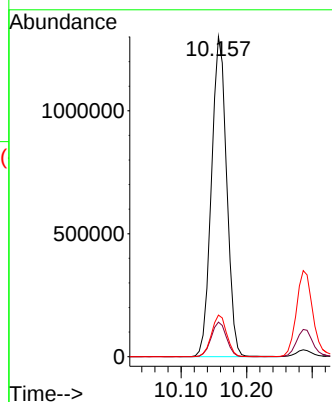
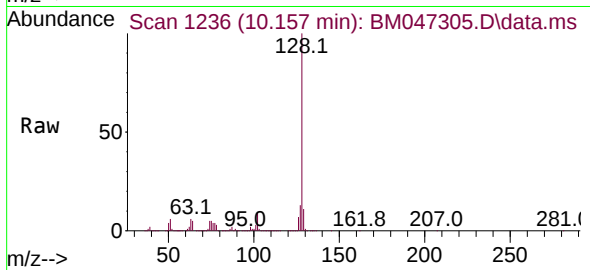




#31
Naphthalene
Concen: 43.768 ng
RT: 10.157 min Scan# 1127
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

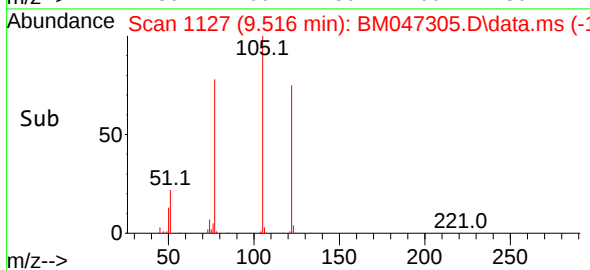
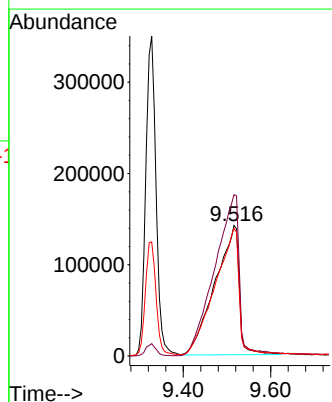
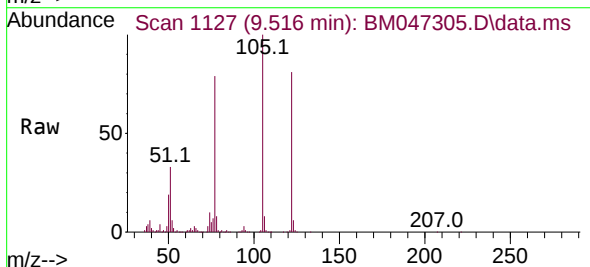
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

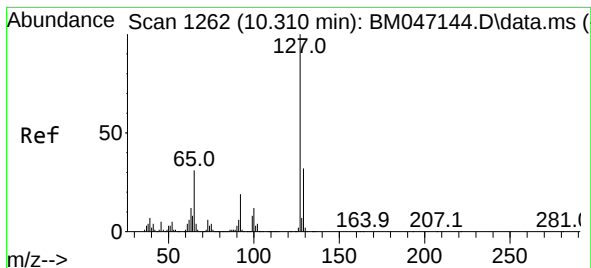
Tgt Ion:128 Resp: 2098061
Ion Ratio Lower Upper
128 100
129 10.8 8.6 13.0
127 13.0 10.2 15.4



#32
Benzoic acid
Concen: 46.998 ng
RT: 9.516 min Scan# 1127
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:122 Resp: 545078
Ion Ratio Lower Upper
122 100
105 123.7 107.1 147.1
77 97.8 82.1 122.1





#33

4-Chloroaniline

Concen: 33.745 ng

RT: 10.286 min Scan# 11

Delta R.T. -0.024 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion:127 Resp: 622066

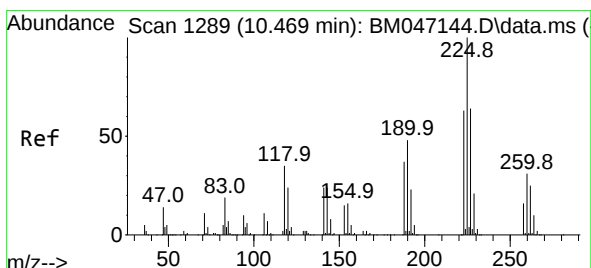
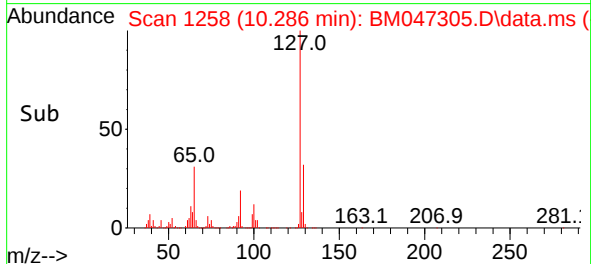
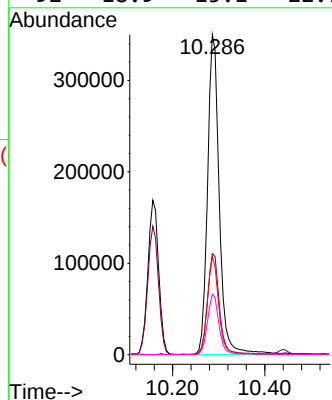
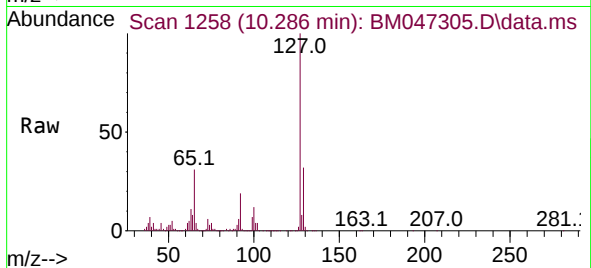
Ion Ratio Lower Upper

127 100

129 31.6 25.8 38.8

65 30.7 24.9 37.3

92 18.9 15.1 22.7



#34

Hexachlorobutadiene

Concen: 49.572 ng

RT: 10.439 min Scan# 1284

Delta R.T. -0.030 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

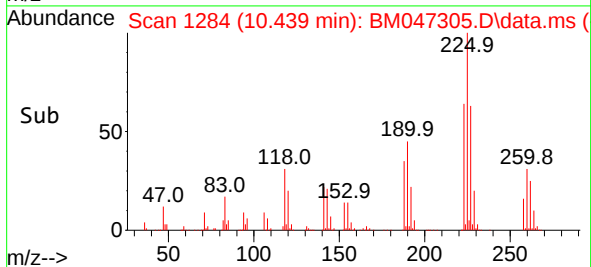
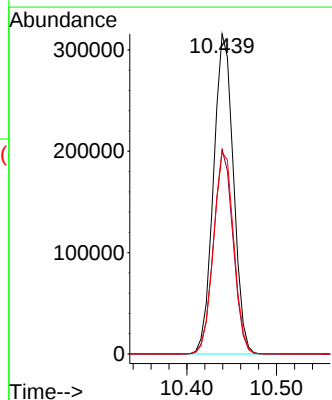
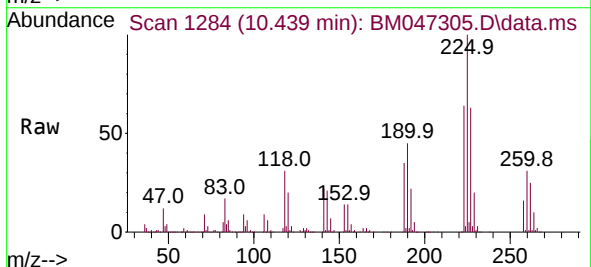
Tgt Ion:225 Resp: 486357

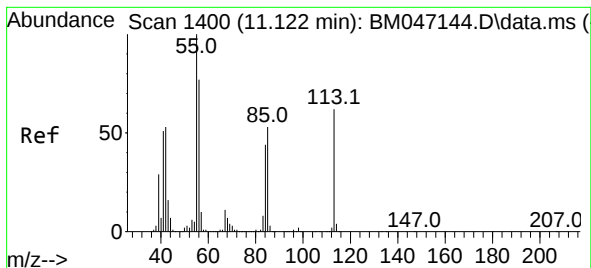
Ion Ratio Lower Upper

225 100

223 63.9 50.2 75.2

227 63.1 51.4 77.0





#35

Caprolactam

Concen: 46.464 ng

RT: 11.098 min Scan# 11

Delta R.T. -0.024 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

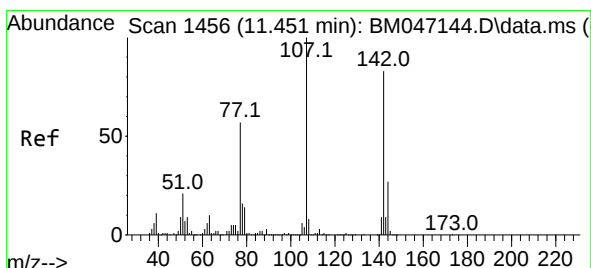
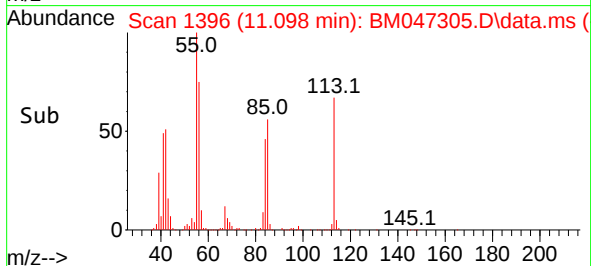
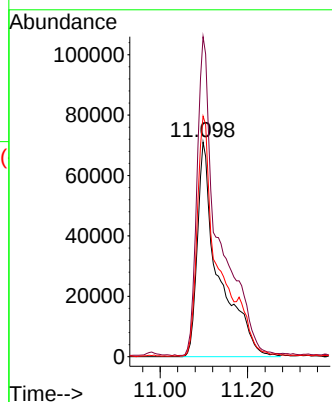
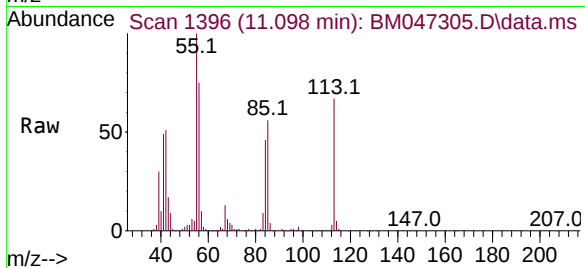
Tgt Ion:113 Resp: 239002

Ion Ratio Lower Upper

113 100

55 149.1 140.5 180.5

56 112.0 103.6 143.6



#36

4-Chloro-3-methylphenol

Concen: 46.021 ng

RT: 11.439 min Scan# 1454

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

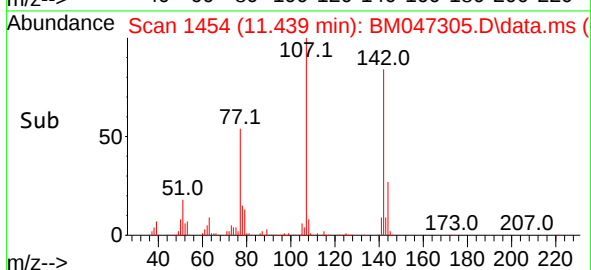
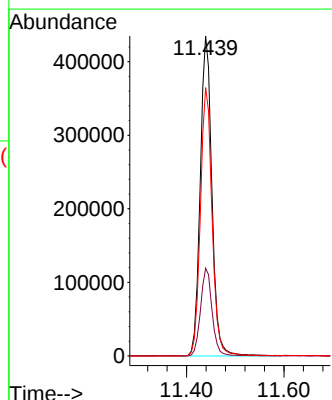
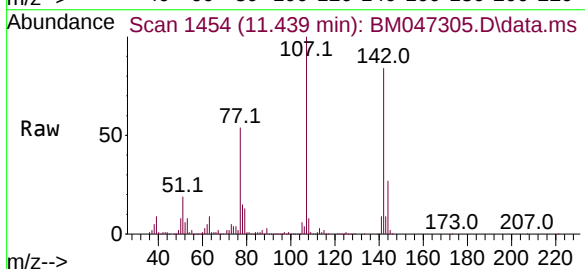
Tgt Ion:107 Resp: 725951

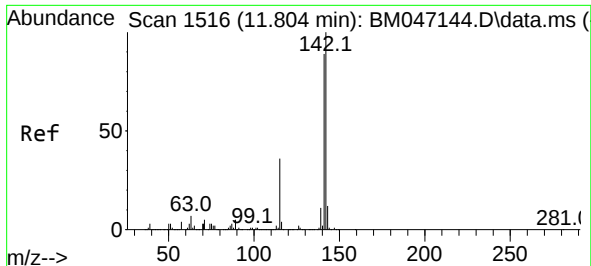
Ion Ratio Lower Upper

107 100

144 27.4 21.8 32.6

142 83.9 66.8 100.2

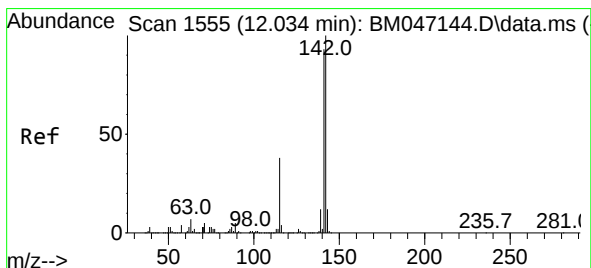
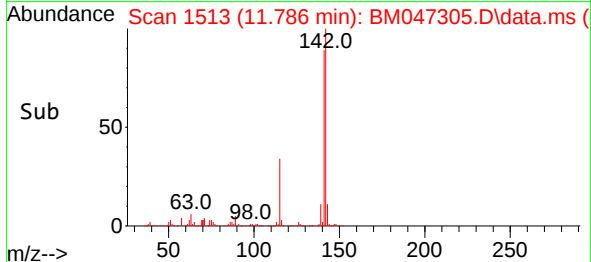
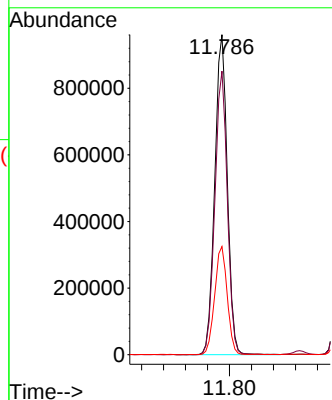
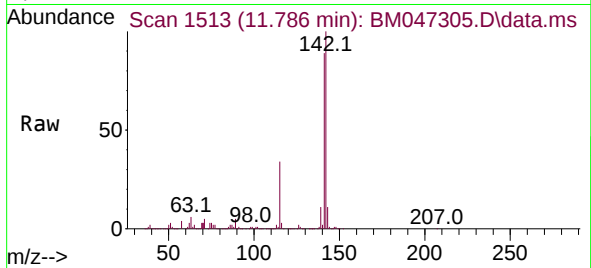




#37
2-Methylnaphthalene
Concen: 44.646 ng
RT: 11.786 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

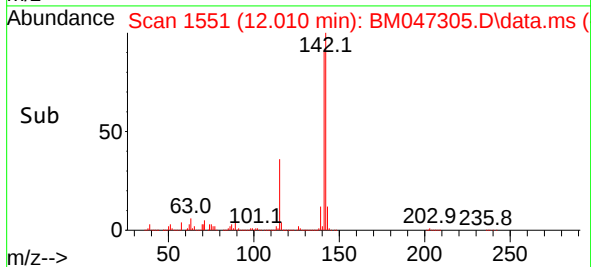
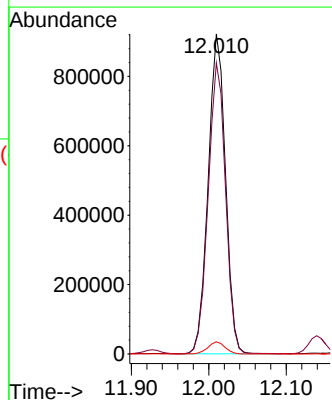
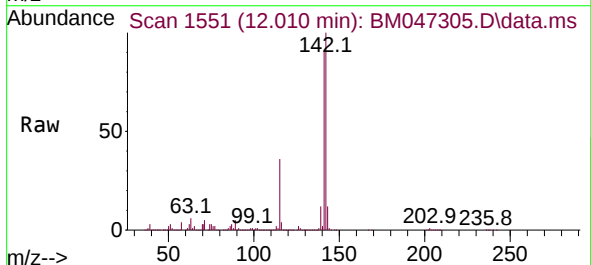
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:142 Resp: 1523803
Ion Ratio Lower Upper
142 100
141 88.6 70.9 106.3
115 33.8 28.7 43.1



#38
1-Methylnaphthalene
Concen: 42.400 ng
RT: 12.010 min Scan# 1551
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:142 Resp: 1430233
Ion Ratio Lower Upper
142 100
141 90.9 74.6 111.8
116 3.8 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.016 min Scan# 11

Delta R.T. -0.018 min

Lab File: BM047305.D

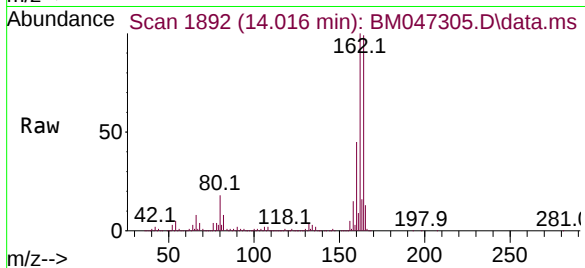
Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD



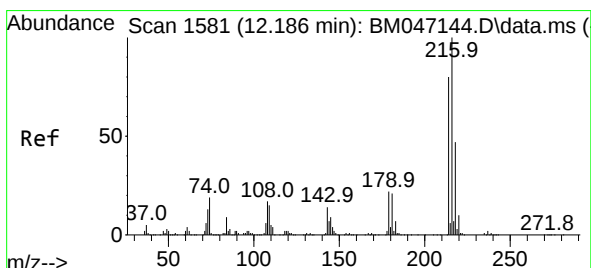
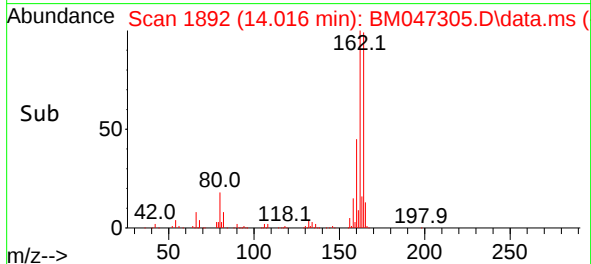
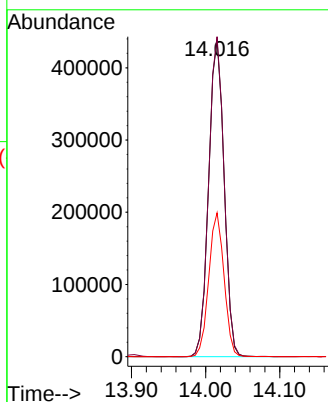
Tgt Ion:164 Resp: 634921

Ion Ratio Lower Upper

164 100

162 101.0 80.7 121.1

160 45.4 36.0 54.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 49.520 ng

RT: 12.169 min Scan# 1578

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Tgt Ion:216 Resp: 857580

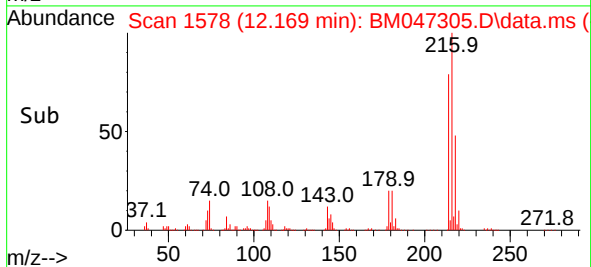
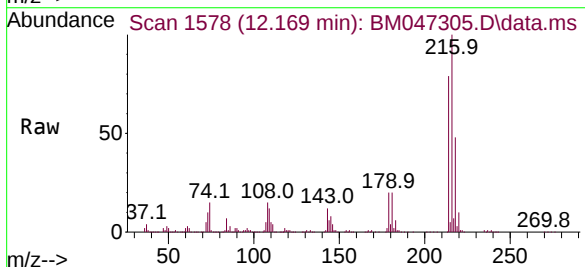
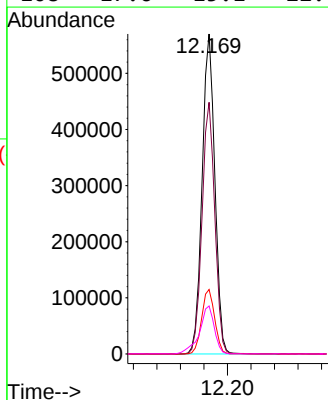
Ion Ratio Lower Upper

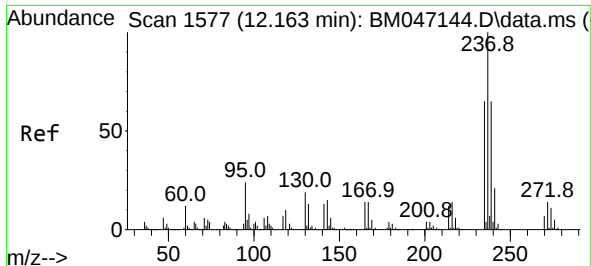
216 100

214 79.0 63.4 95.2

179 20.6 17.6 26.4

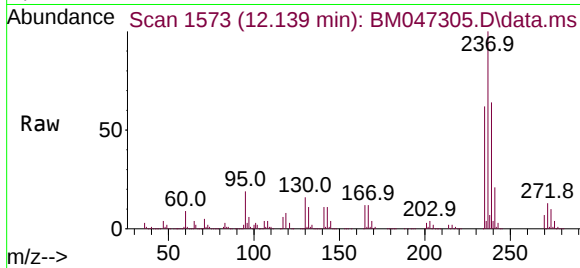
108 17.6 15.1 22.7



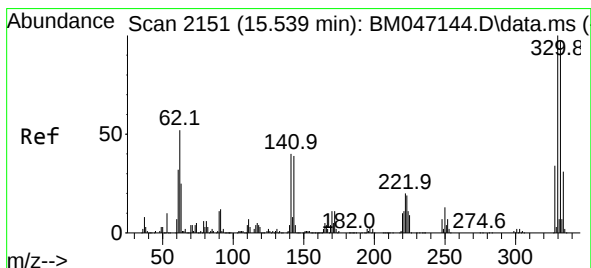
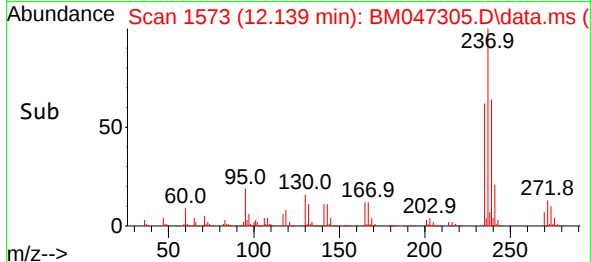
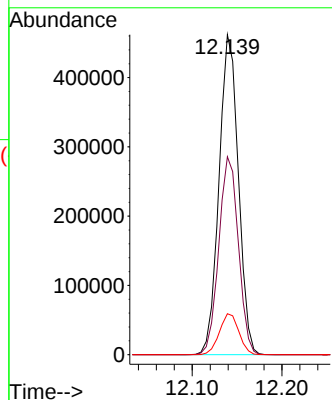


#41
Hexachlorocyclopentadiene
Concen: 114.253 ng
RT: 12.139 min Scan# 1
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

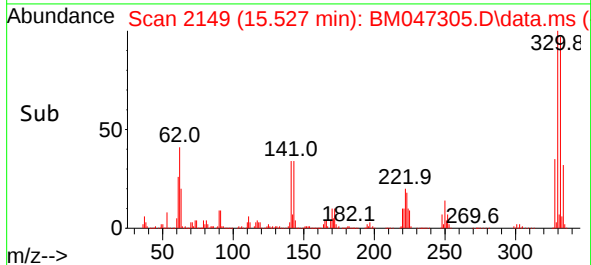
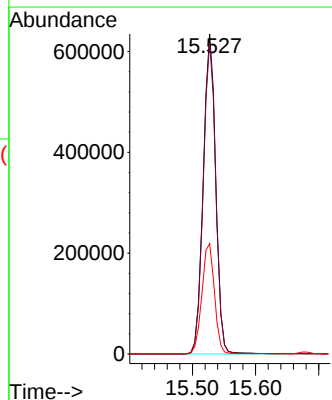
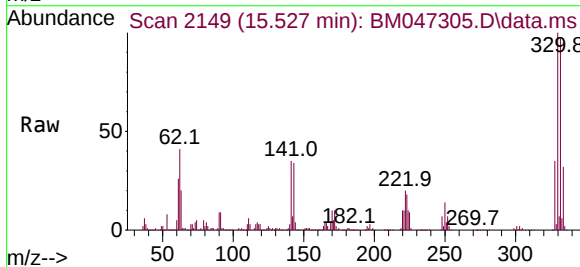


Tgt Ion:237 Resp: 690903
Ion Ratio Lower Upper
237 100
235 61.8 44.8 84.8
272 12.8 0.0 33.5



#42
2,4,6-Tribromophenol
Concen: 117.883 ng
RT: 15.527 min Scan# 2149
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:330 Resp: 867856
Ion Ratio Lower Upper
330 100
332 97.5 77.4 116.2
141 34.8 31.6 47.4





#43

2,4,6-Trichlorophenol

Concen: 50.525 ng

RT: 12.427 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

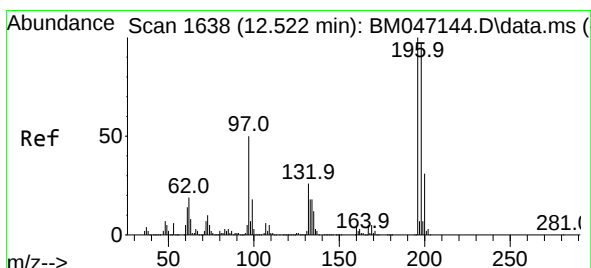
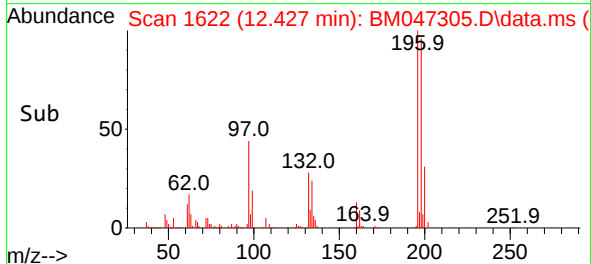
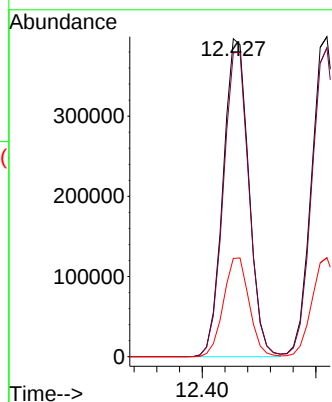
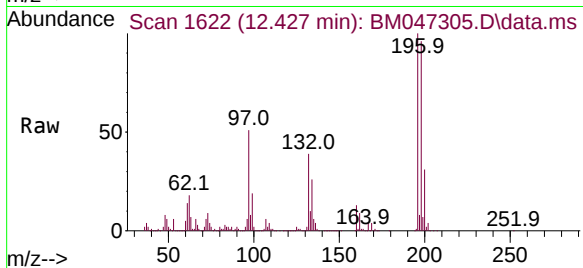
Tgt Ion:196 Resp: 621915

Ion Ratio Lower Upper

196 100

198 95.5 75.6 113.4

200 30.9 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 49.666 ng

RT: 12.510 min Scan# 1636

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Tgt Ion:196 Resp: 678763

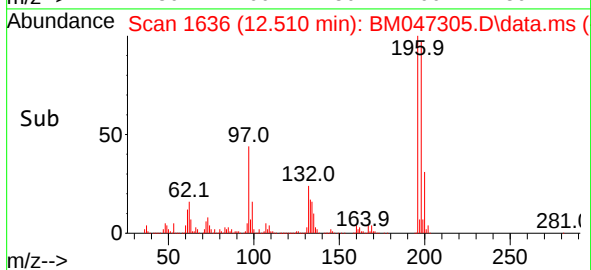
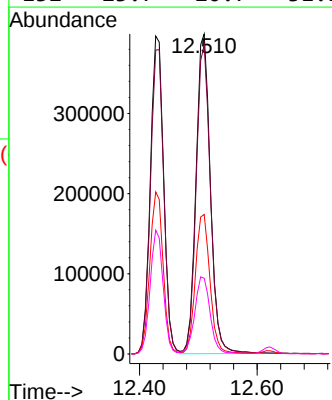
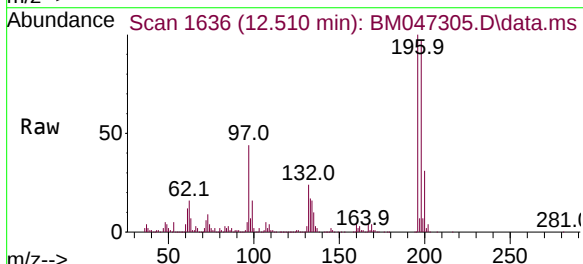
Ion Ratio Lower Upper

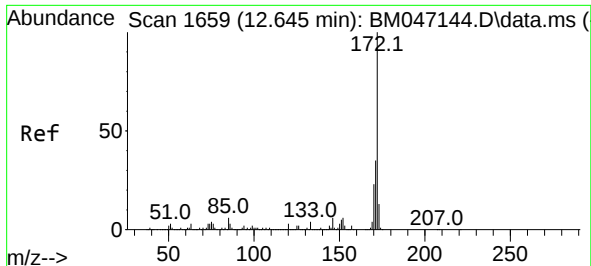
196 100

198 96.6 77.7 116.5

97 43.6 39.8 59.8

132 23.7 20.7 31.1

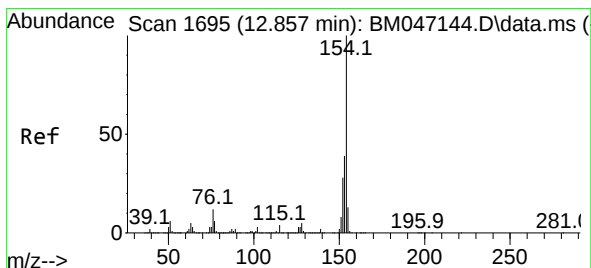
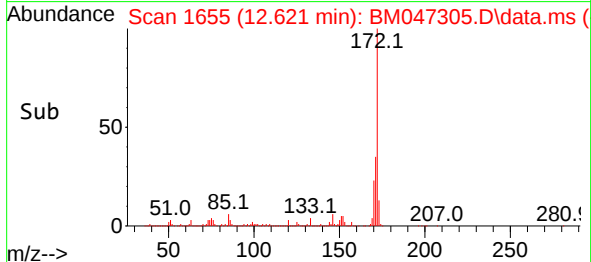
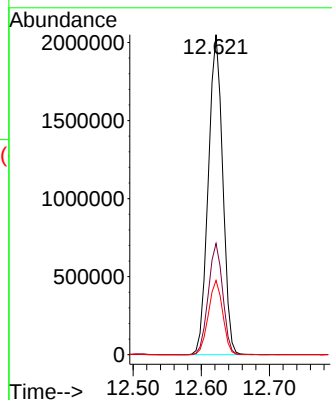
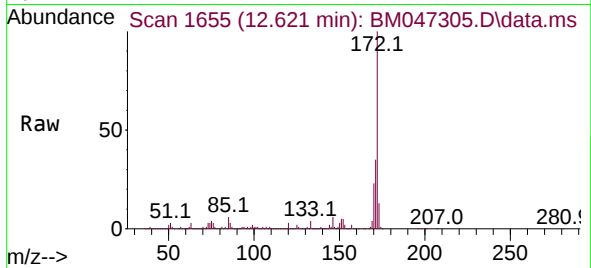




#45
2-Fluorobiphenyl
Concen: 73.257 ng
RT: 12.621 min Scan# 1655
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

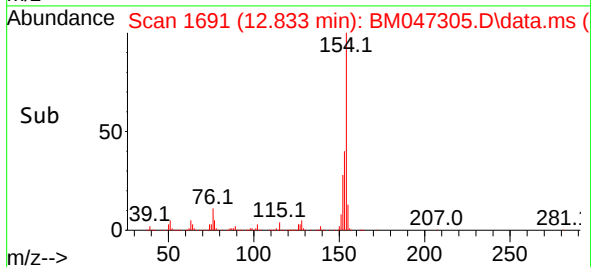
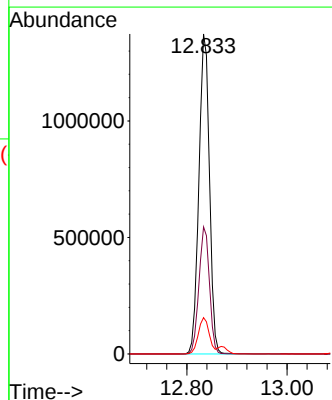
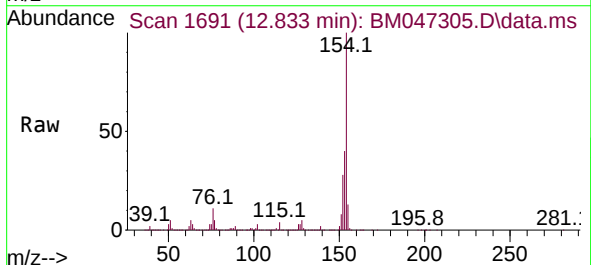
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

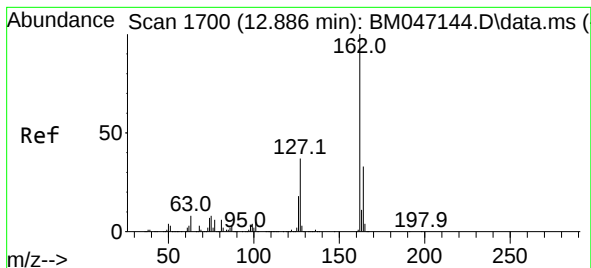
Tgt Ion:172 Resp: 3015331
Ion Ratio Lower Upper
172 100
171 34.7 27.8 41.6
170 23.2 18.7 28.1



#46
1,1'-Biphenyl
Concen: 44.149 ng
RT: 12.833 min Scan# 1691
Delta R.T. -0.024 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:154 Resp: 1995577
Ion Ratio Lower Upper
154 100
153 39.7 19.0 59.0
76 11.4 0.0 31.9





#47

2-Chloronaphthalene

Concen: 43.737 ng

RT: 12.869 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

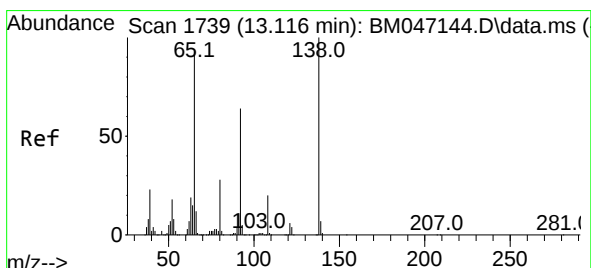
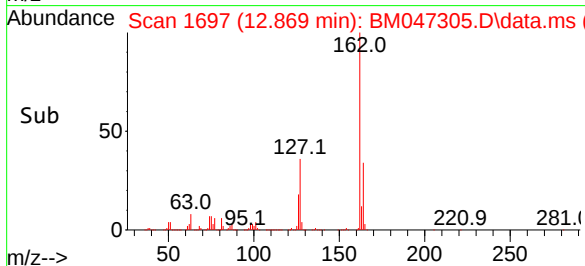
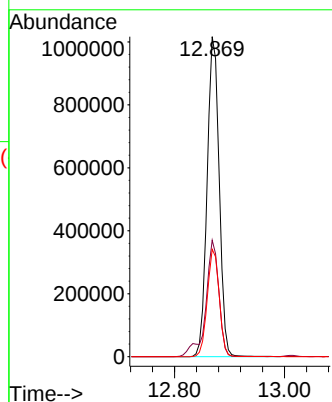
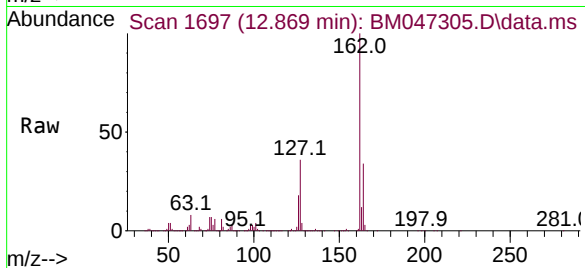
Tgt Ion:162 Resp: 1545181

Ion Ratio Lower Upper

162 100

127 36.4 30.0 45.0

164 33.6 26.3 39.5



#48

2-Nitroaniline

Concen: 43.839 ng

RT: 13.098 min Scan# 1736

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

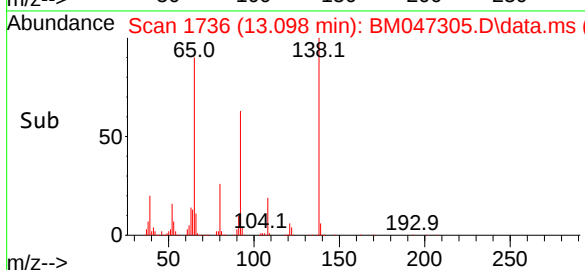
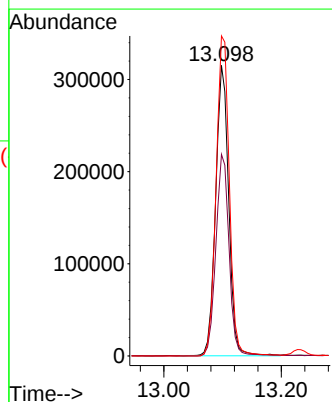
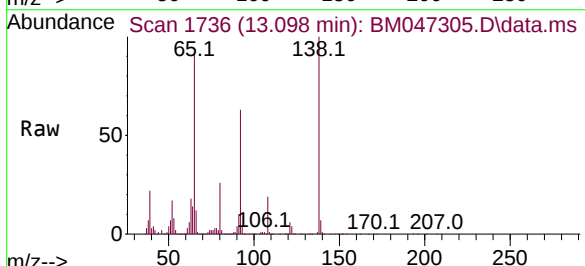
Tgt Ion: 65 Resp: 485207

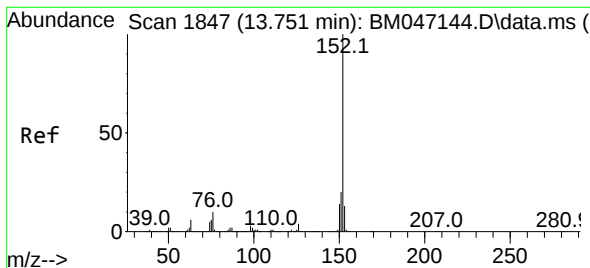
Ion Ratio Lower Upper

65 100

92 69.4 55.1 82.7

138 110.2 85.9 128.9





#49

Acenaphthylene

Concen: 48.368 ng

RT: 13.733 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

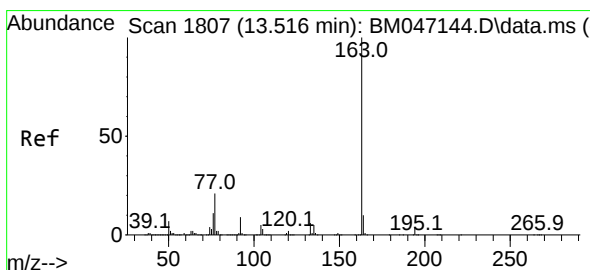
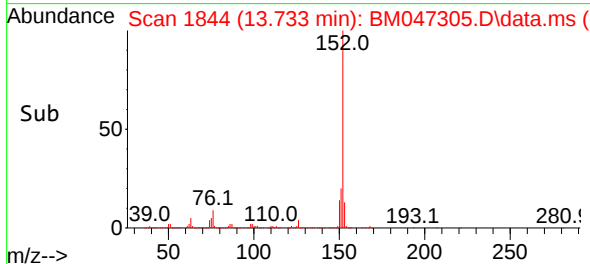
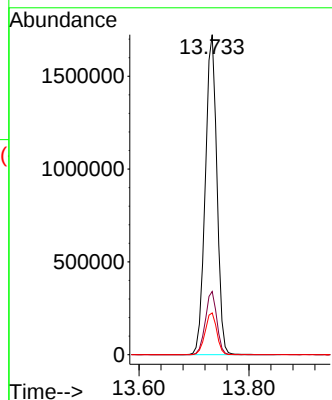
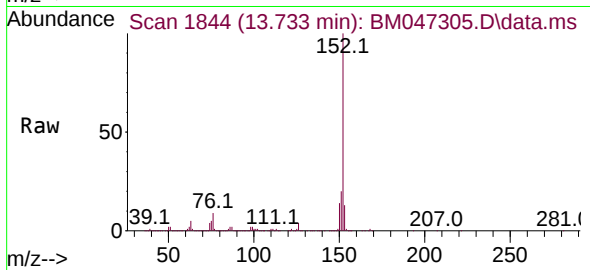
Tgt Ion:152 Resp: 2518813

Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 13.0 10.4 15.6



#50

Dimethylphthalate

Concen: 45.458 ng

RT: 13.498 min Scan# 1804

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

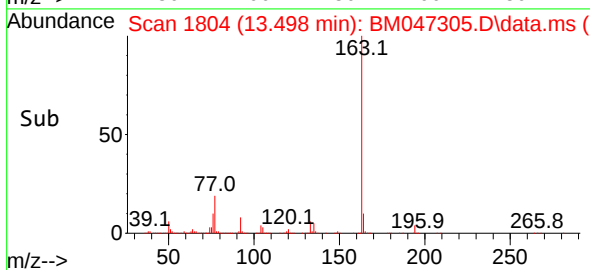
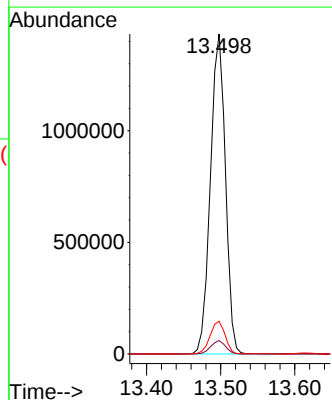
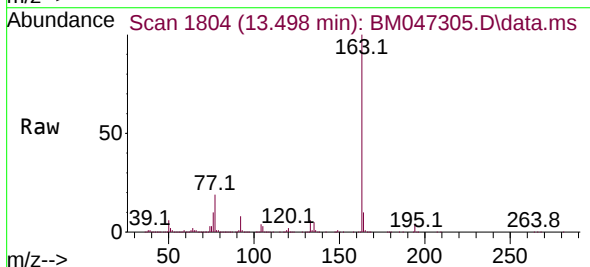
Tgt Ion:163 Resp: 2015742

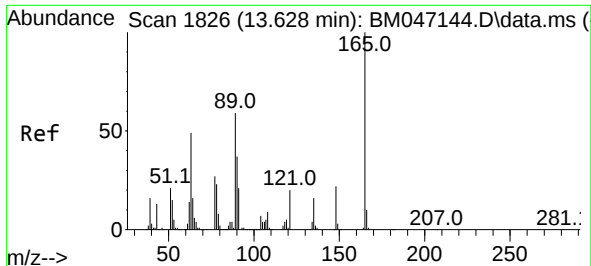
Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

164 10.2 8.0 12.0

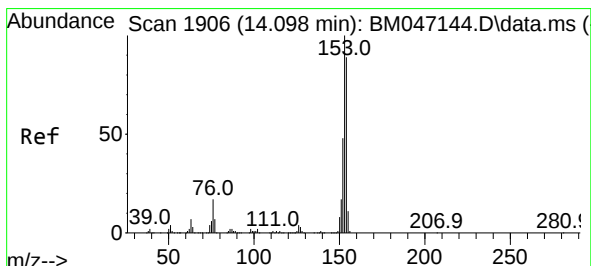
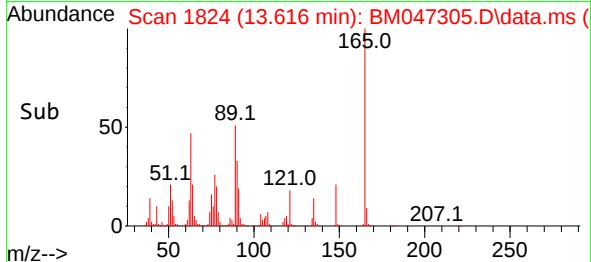
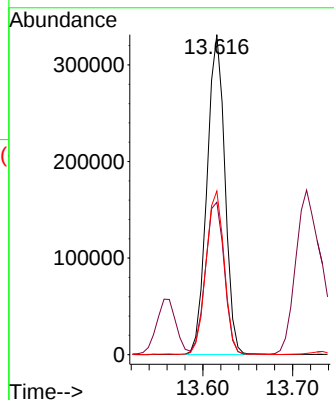
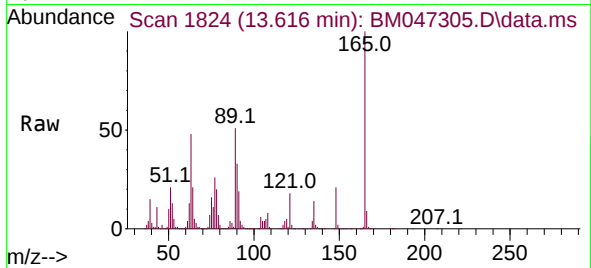




#51
2,6-Dinitrotoluene
Concen: 44.213 ng
RT: 13.616 min Scan# 1824
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

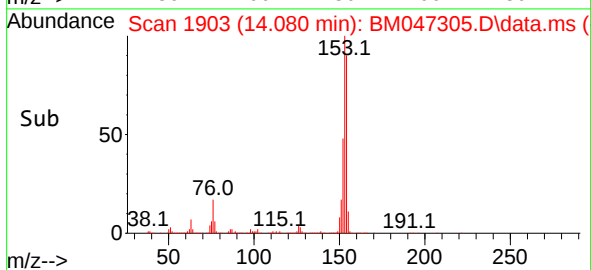
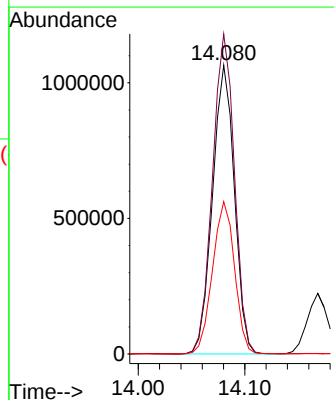
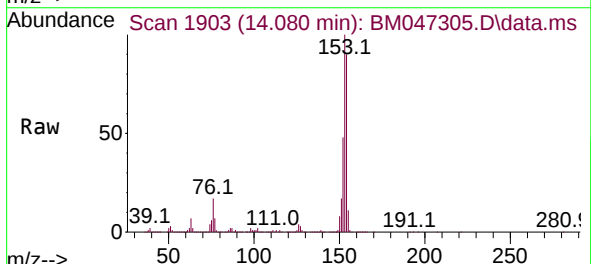
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

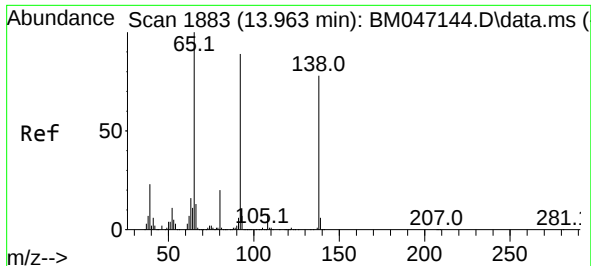
Tgt Ion:165 Resp: 458303
Ion Ratio Lower Upper
165 100
63 47.6 46.5 69.7
89 51.1 47.3 70.9



#52
Acenaphthene
Concen: 45.957 ng
RT: 14.080 min Scan# 1903
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:154 Resp: 1518136
Ion Ratio Lower Upper
154 100
153 110.8 90.3 135.5
152 52.8 42.9 64.3

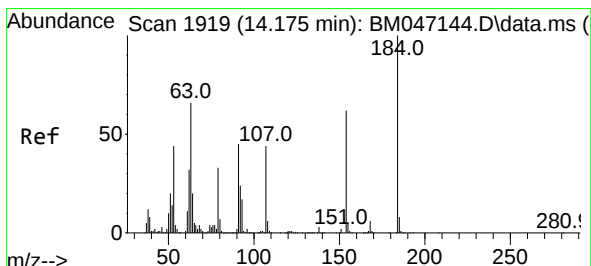
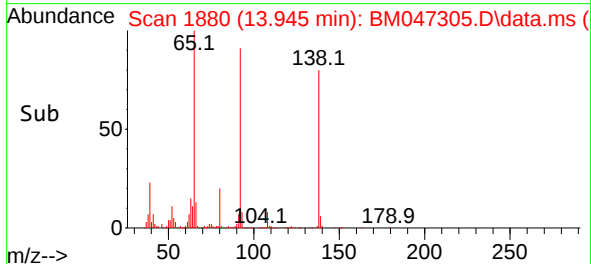
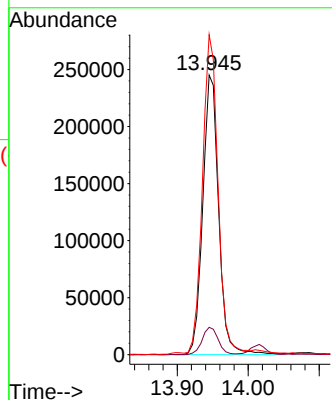
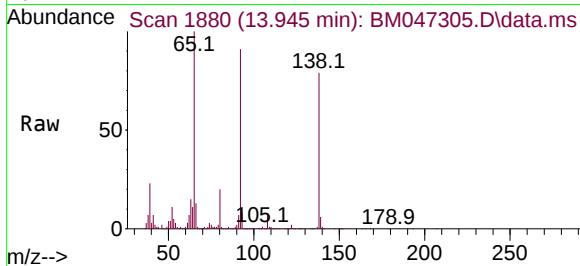




#53
3-Nitroaniline
Concen: 36.833 ng
RT: 13.945 min Scan# 1880
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

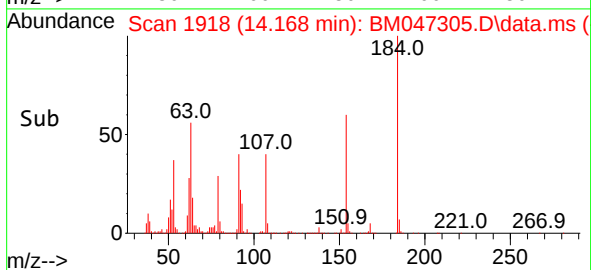
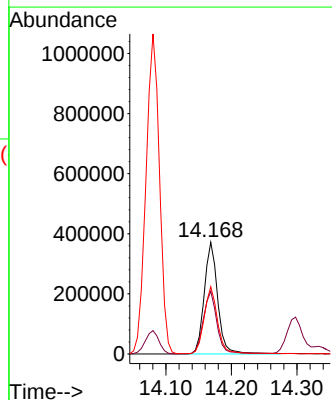
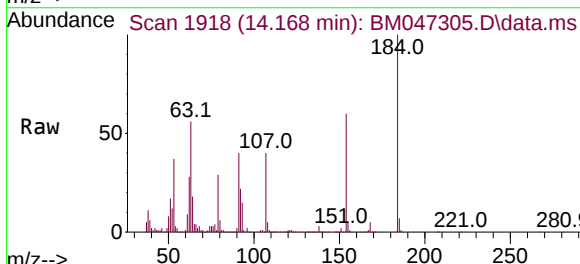
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:138 Resp: 382586
Ion Ratio Lower Upper
138 100
108 9.8 7.9 11.9
92 114.4 92.0 138.0



#54
2,4-Dinitrophenol
Concen: 85.767 ng
RT: 14.168 min Scan# 1918
Delta R.T. -0.007 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:184 Resp: 532847
Ion Ratio Lower Upper
184 100
63 56.1 52.7 79.1
154 60.2 50.4 75.6

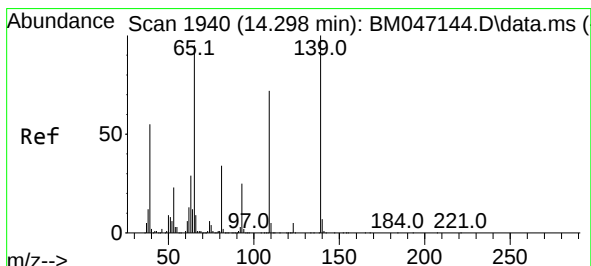
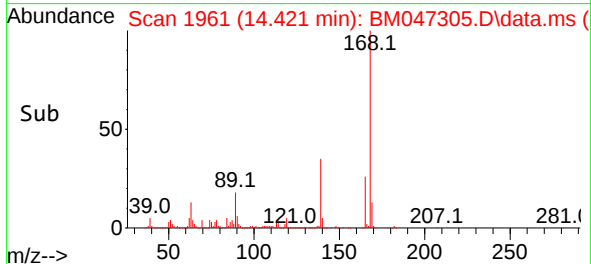
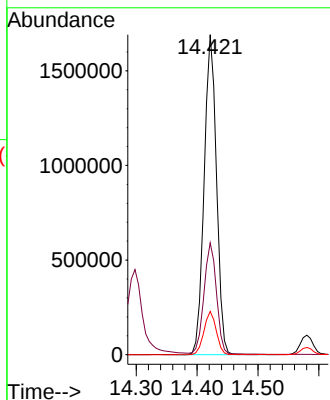
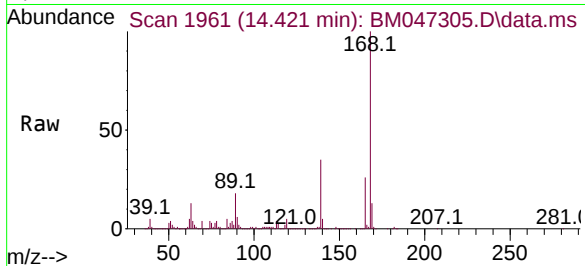




#55
Dibenzofuran
Concen: 45.697 ng
RT: 14.421 min Scan# 1964
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

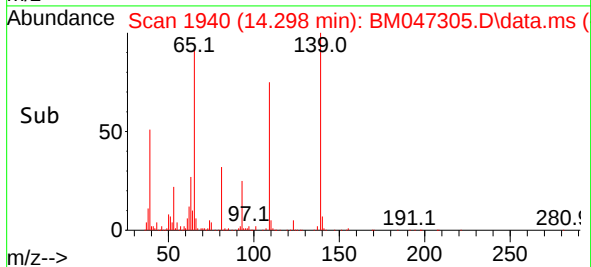
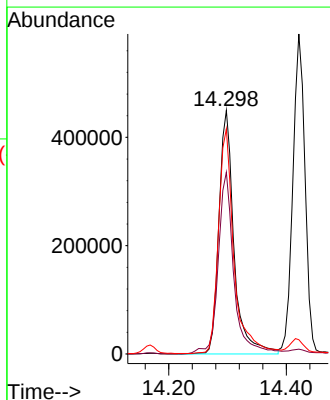
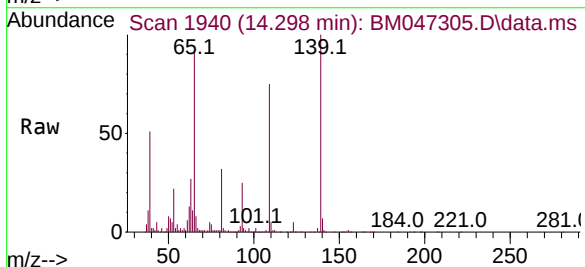
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

Tgt Ion:168 Resp: 2384419
Ion Ratio Lower Upper
168 100
139 34.9 29.6 44.4
169 13.5 10.7 16.1



#56
4-Nitrophenol
Concen: 89.551 ng
RT: 14.298 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:139 Resp: 802092
Ion Ratio Lower Upper
139 100
109 74.6 52.5 92.5
65 92.5 75.4 115.4

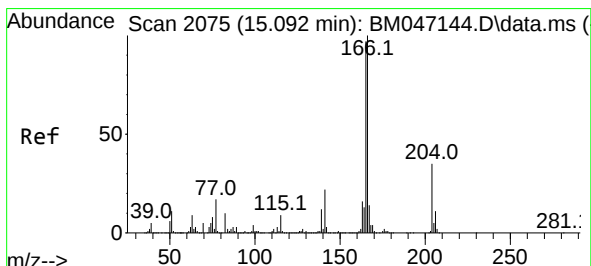
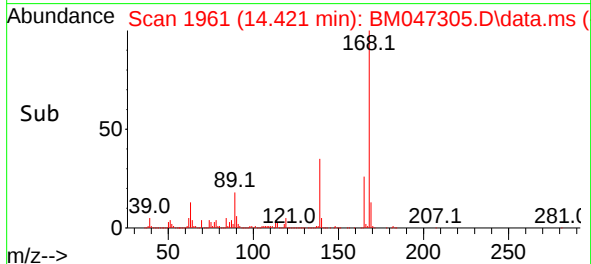
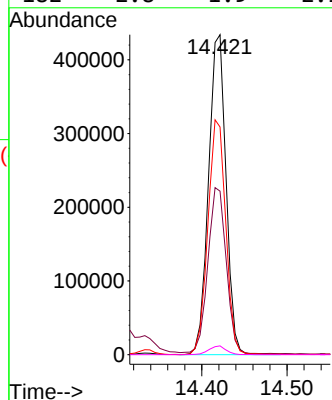
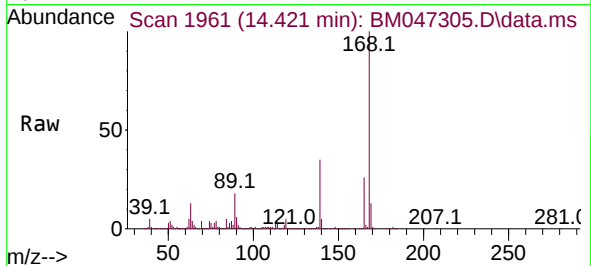




#57
2,4-Dinitrotoluene
Concen: 44.738 ng
RT: 14.421 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

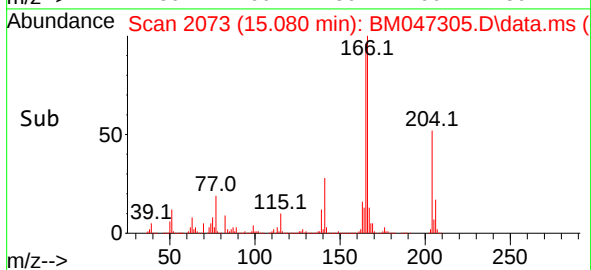
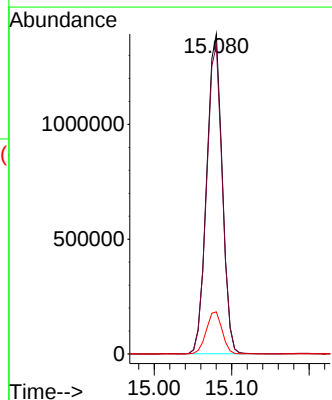
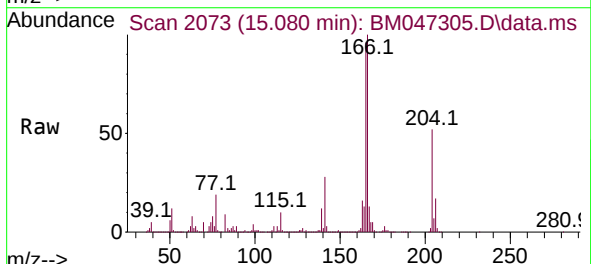
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

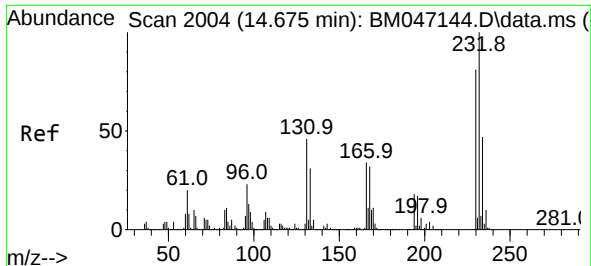
Tgt Ion:	165	Resp:	618992
Ion	Ratio	Lower	Upper
165	100		
63	51.1	40.3	60.5
89	71.2	61.0	91.6
182	2.8	1.9	2.9



#58
Fluorene
Concen: 45.013 ng
RT: 15.080 min Scan# 2073
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:	166	Resp:	1937951
Ion	Ratio	Lower	Upper
166	100		
165	96.4	77.4	116.0
167	13.2	11.0	16.6

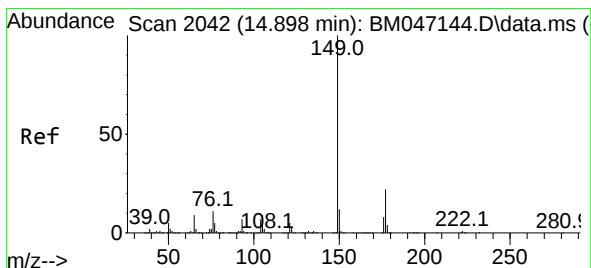
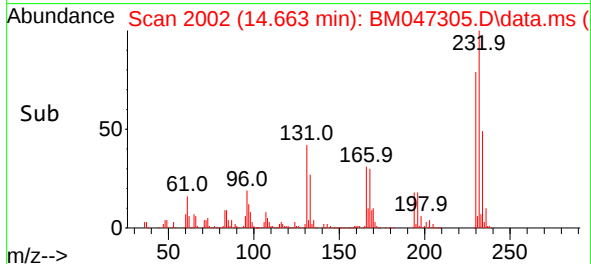
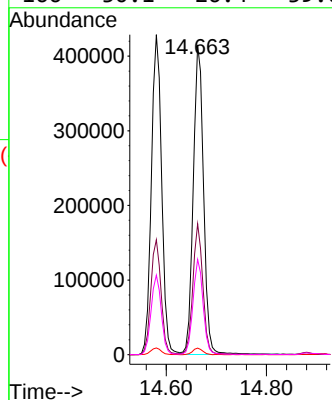
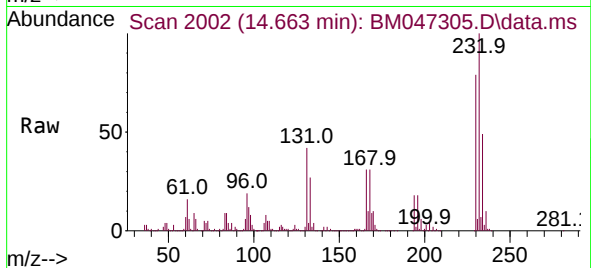




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.700 ng
RT: 14.663 min Scan# 2002
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

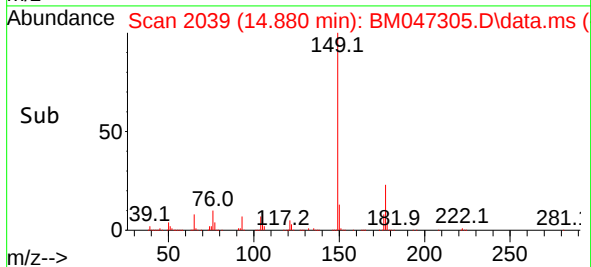
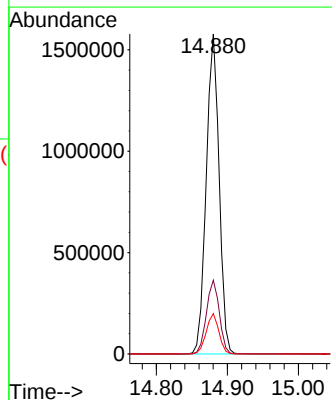
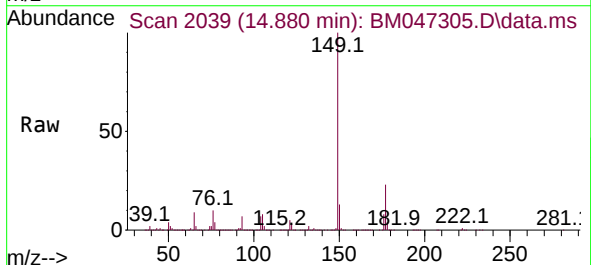
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

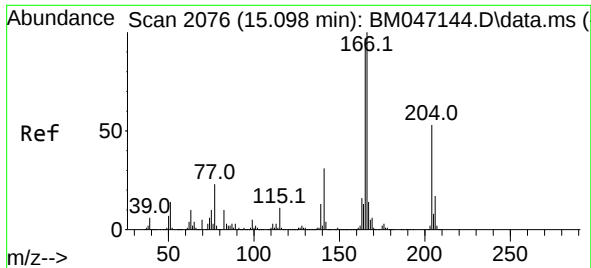
Tgt Ion:232 Resp: 591926
Ion Ratio Lower Upper
232 100
131 40.6 36.9 55.3
130 2.1 2.0 3.0
166 30.1 26.4 39.6



#60
Diethylphthalate
Concen: 43.932 ng
RT: 14.880 min Scan# 2039
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:149 Resp: 1989336
Ion Ratio Lower Upper
149 100
177 23.1 17.6 26.4
150 12.6 9.8 14.6

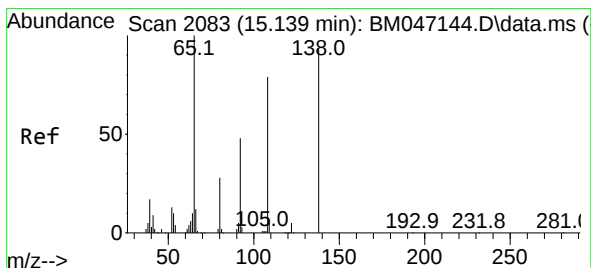
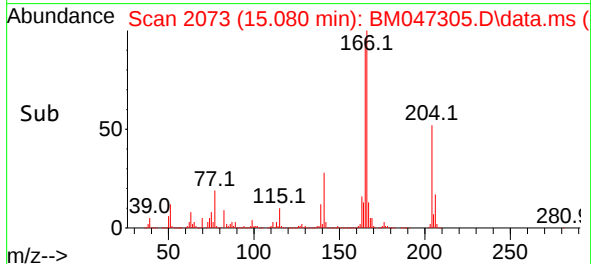
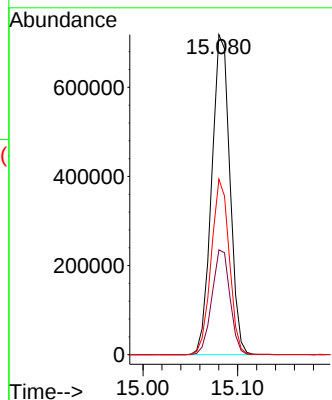
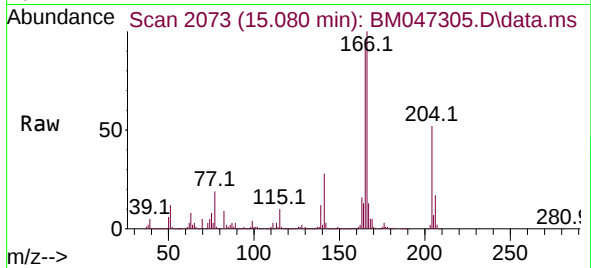




#61
4-Chlorophenyl-phenylether
Concen: 46.761 ng
RT: 15.080 min Scan# 2076
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

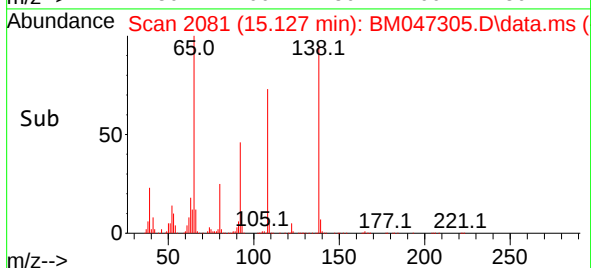
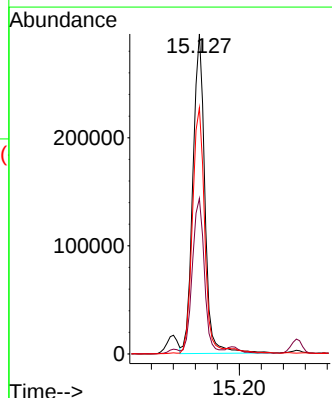
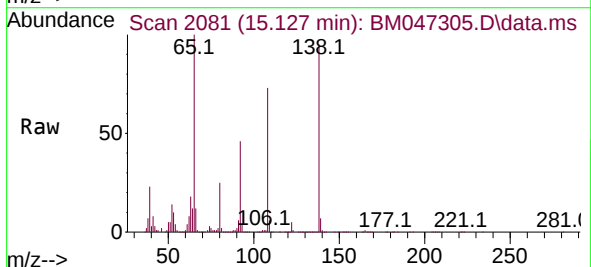
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

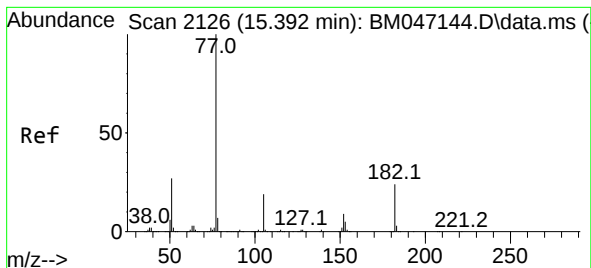
Tgt Ion:204 Resp: 958445
Ion Ratio Lower Upper
204 100
206 32.7 26.2 39.4
141 54.8 47.2 70.8



#62
4-Nitroaniline
Concen: 43.634 ng
RT: 15.127 min Scan# 2081
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:138 Resp: 446509
Ion Ratio Lower Upper
138 100
92 48.6 31.9 71.9
108 77.0 63.8 103.8





#63

Azobenzene

Concen: 41.932 ng

RT: 15.380 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

Tgt Ion: 77 Resp: 1800366

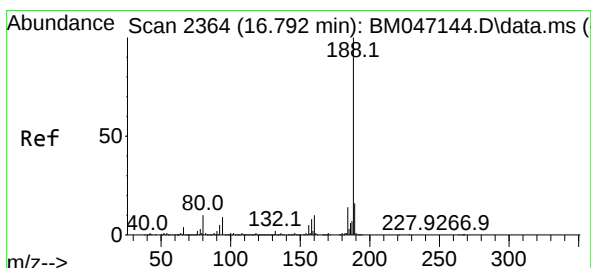
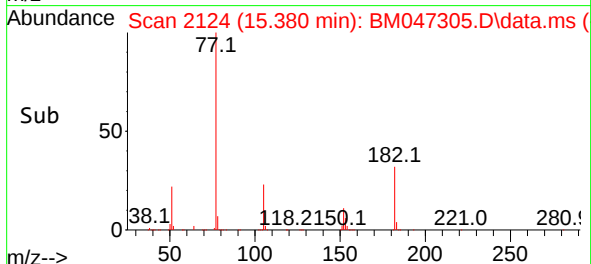
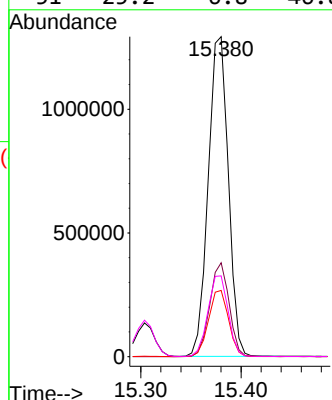
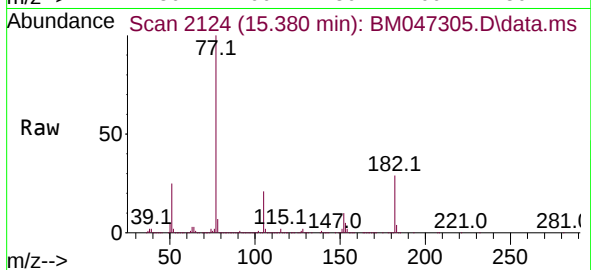
Ion Ratio Lower Upper

77 100

182 29.4 3.8 43.8

105 20.7 0.0 39.5

51 25.2 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: BM047305.D

Acq: 21 Aug 2024 19:44

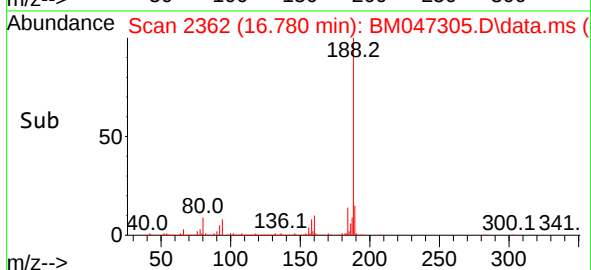
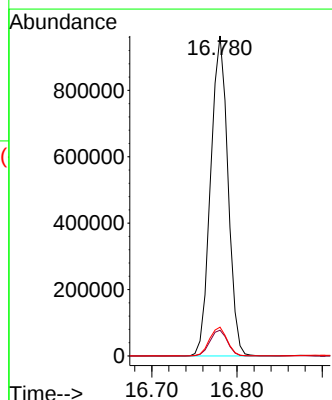
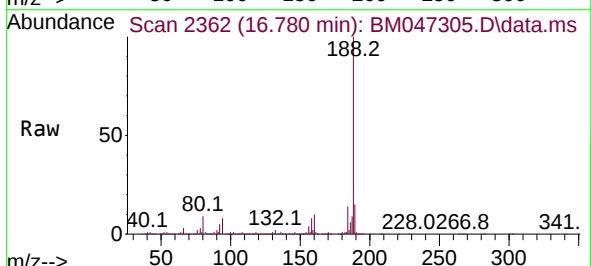
Tgt Ion:188 Resp: 1363136

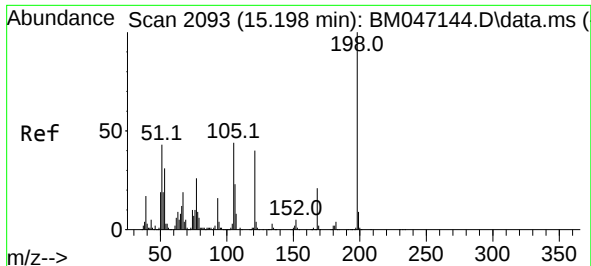
Ion Ratio Lower Upper

188 100

94 8.1 7.0 10.6

80 9.0 8.0 12.0

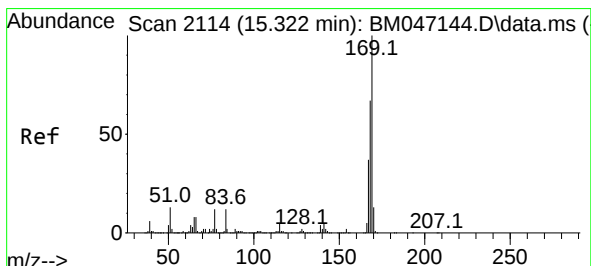
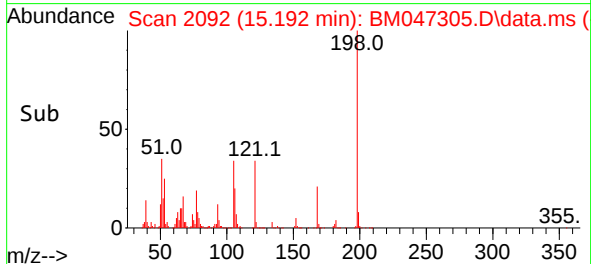
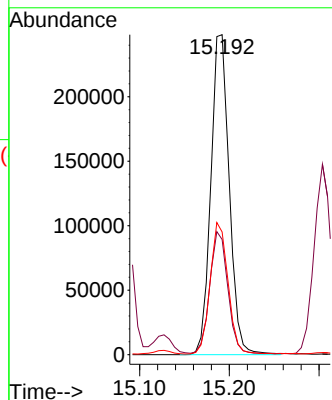
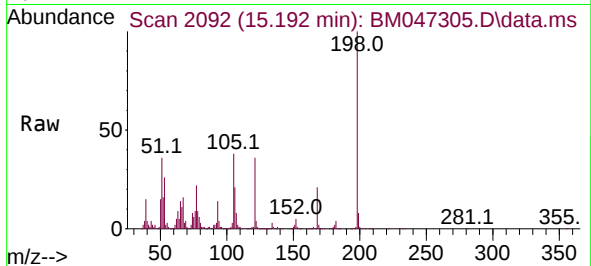




#65
4,6-Dinitro-2-methylphenol
Concen: 44.331 ng
RT: 15.192 min Scan# 2093
Delta R.T. -0.006 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

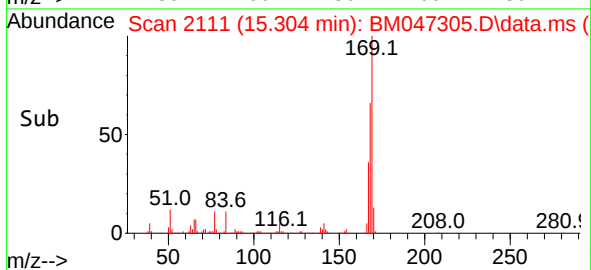
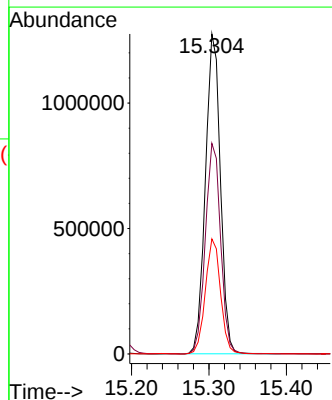
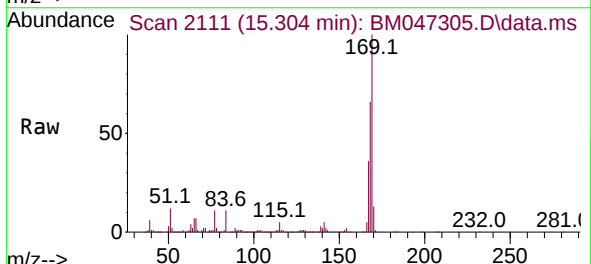
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

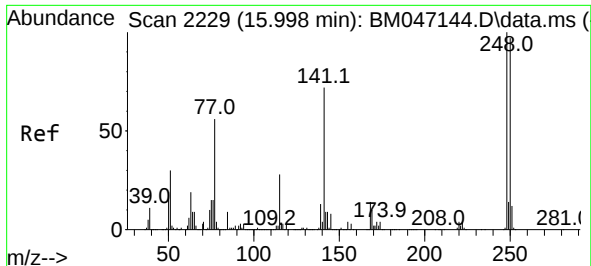
Tgt Ion:198 Resp: 353806
Ion Ratio Lower Upper
198 100
51 36.0 23.9 63.9
105 38.4 24.3 64.3



#66
n-Nitrosodiphenylamine
Concen: 46.112 ng
RT: 15.304 min Scan# 2111
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:169 Resp: 1712057
Ion Ratio Lower Upper
169 100
168 65.8 53.8 80.8
167 35.9 29.3 43.9

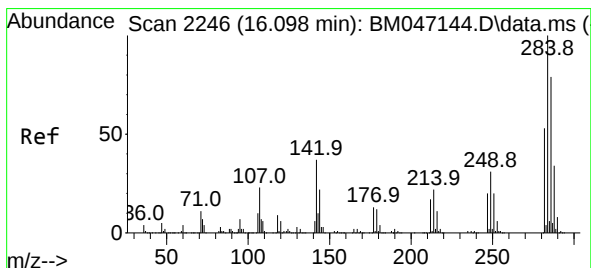
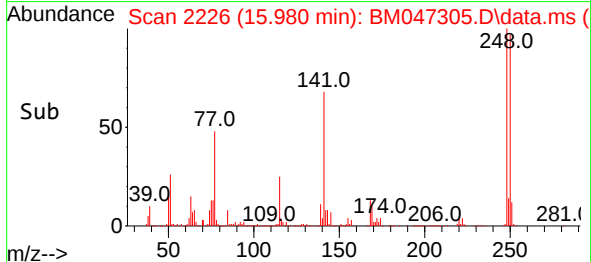
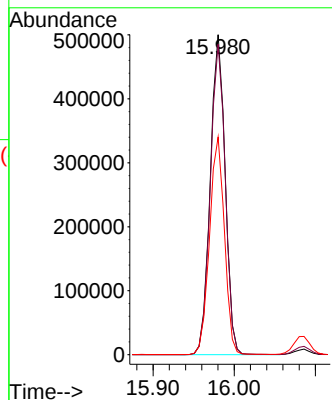
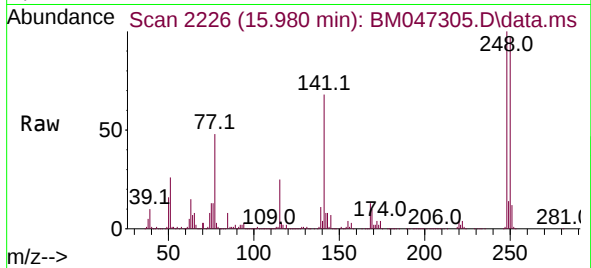




#67
4-Bromophenyl-phenylether
Concen: 48.435 ng
RT: 15.980 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

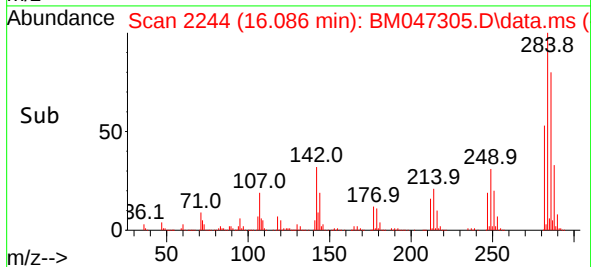
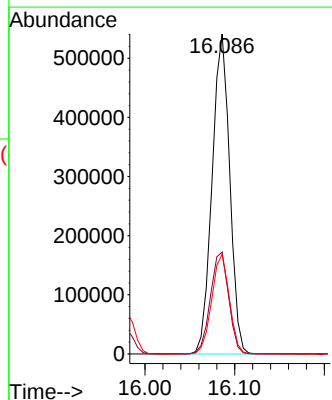
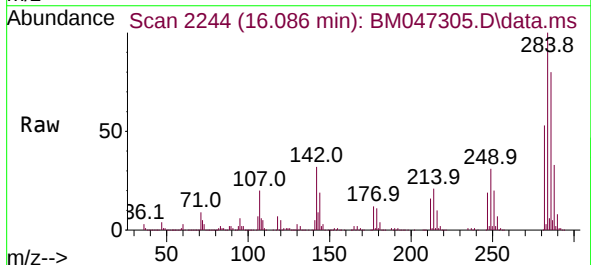
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

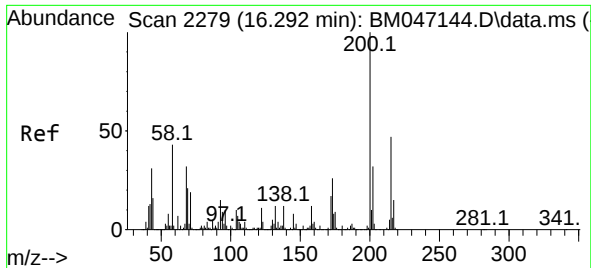
Tgt Ion:248 Resp: 636210
Ion Ratio Lower Upper
248 100
250 97.0 77.8 116.8
141 68.0 57.7 86.5



#68
Hexachlorobenzene
Concen: 46.845 ng
RT: 16.086 min Scan# 2244
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:284 Resp: 736949
Ion Ratio Lower Upper
284 100
142 31.9 29.4 44.0
249 31.1 25.1 37.7

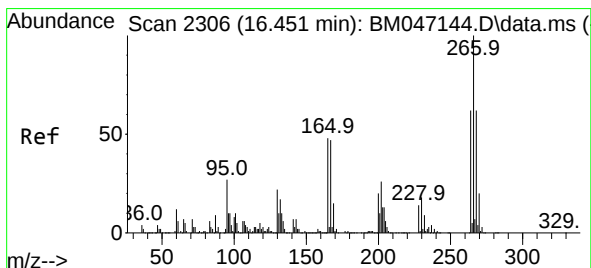
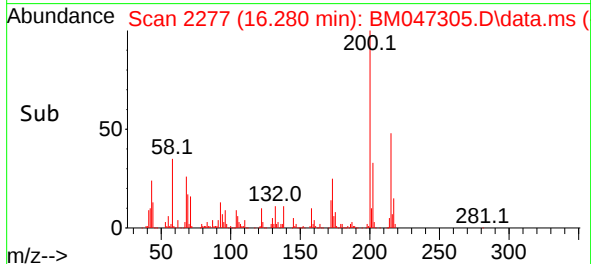
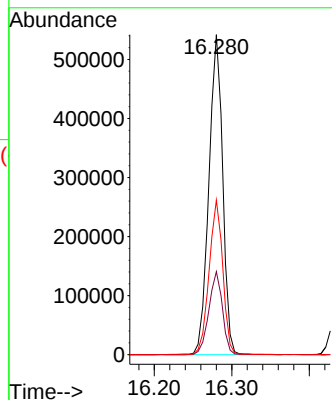
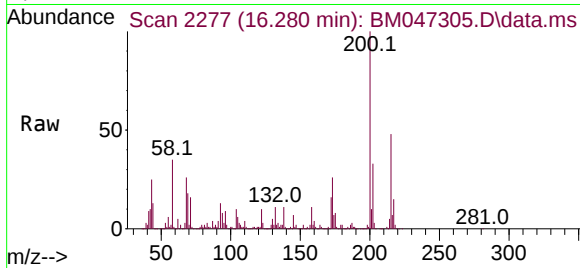




#69
Atrazine
Concen: 59.895 ng
RT: 16.280 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

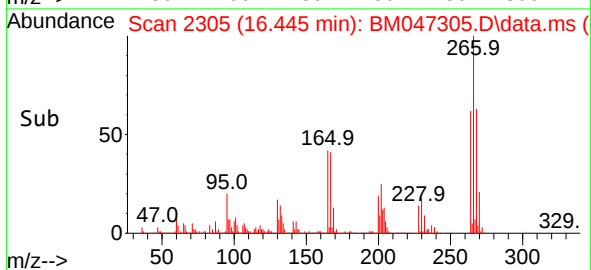
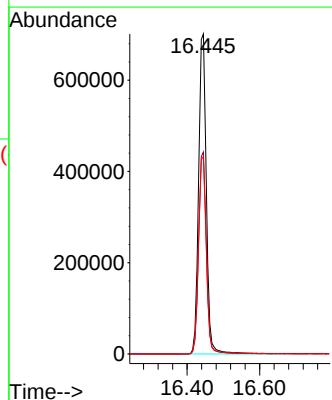
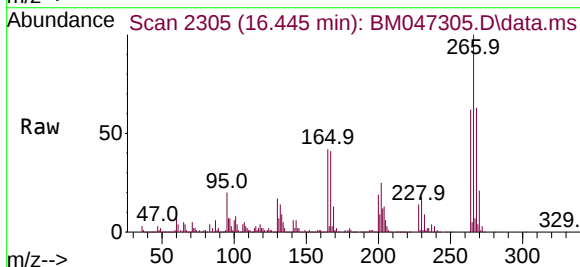
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

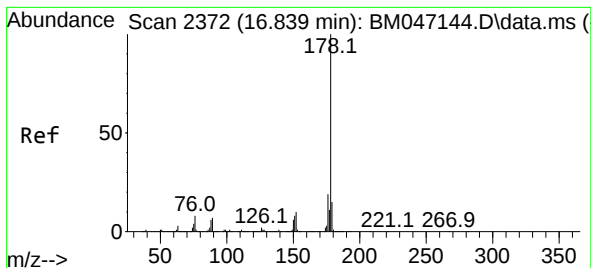
Tgt Ion:200 Resp: 669177
Ion Ratio Lower Upper
200 100
173 25.9 6.1 46.1
215 48.3 26.8 66.8



#70
Pentachlorophenol
Concen: 94.093 ng
RT: 16.445 min Scan# 2305
Delta R.T. -0.006 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:266 Resp: 1037620
Ion Ratio Lower Upper
266 100
268 63.1 49.8 74.6
264 61.7 49.6 74.4





#71

Phenanthrene

Concen: 50.553 ng

RT: 16.821 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

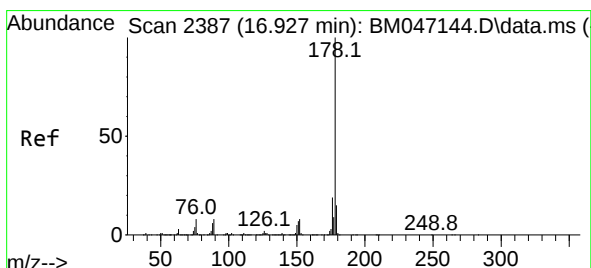
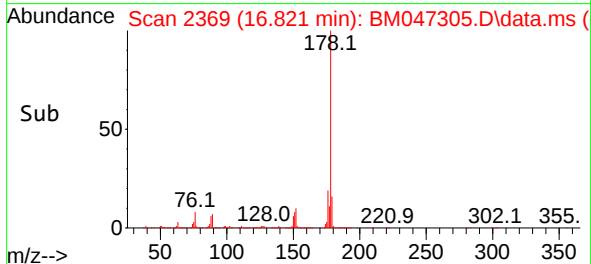
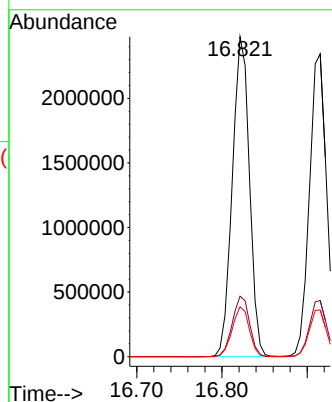
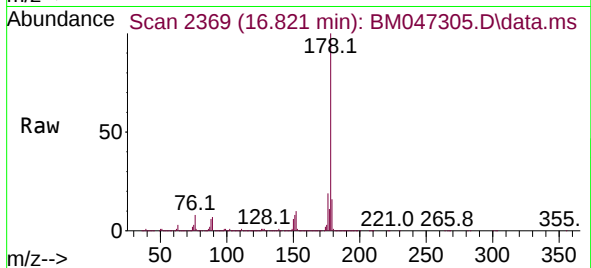
Tgt Ion:178 Resp: 3458371

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 15.6 12.4 18.6



#72

Anthracene

Concen: 49.368 ng

RT: 16.915 min Scan# 2385

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

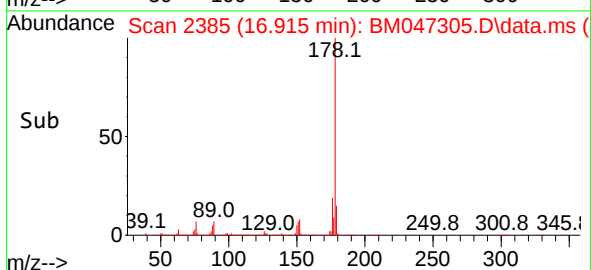
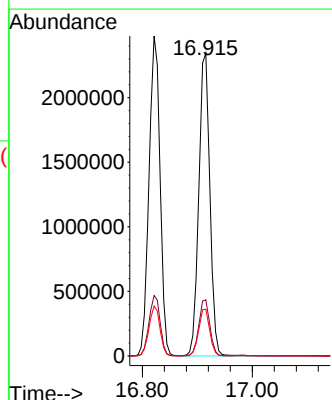
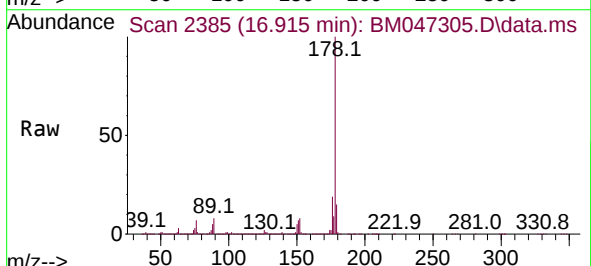
Tgt Ion:178 Resp: 3286172

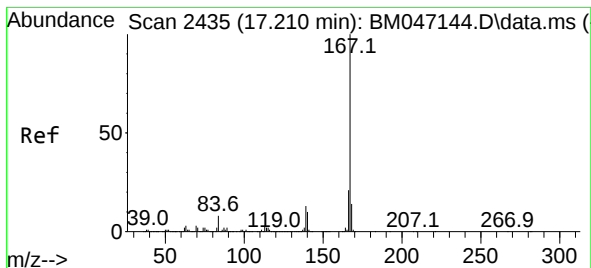
Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

179 15.4 12.4 18.6





#73

Carbazole

Concen: 45.542 ng

RT: 17.198 min Scan# 2435

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

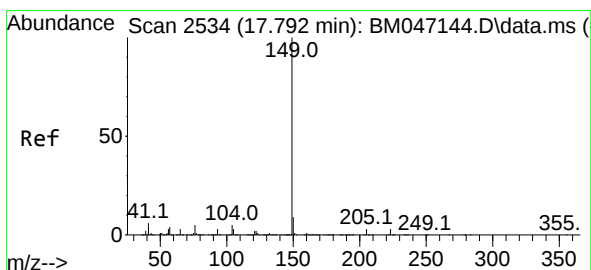
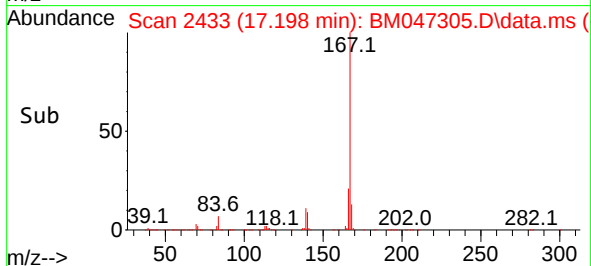
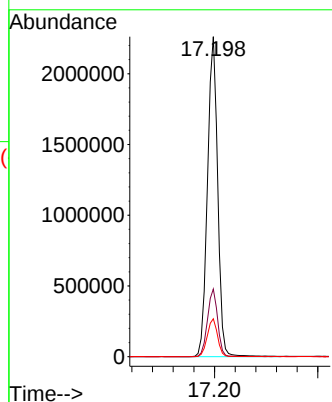
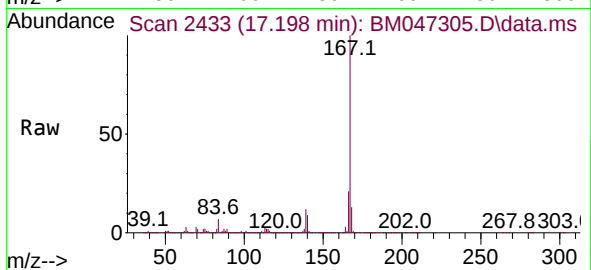
Tgt Ion:167 Resp: 3095206

Ion Ratio Lower Upper

167 100

166 21.1 17.1 25.7

139 11.9 10.0 15.0



#74

Di-n-butylphthalate

Concen: 46.899 ng

RT: 17.780 min Scan# 2532

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

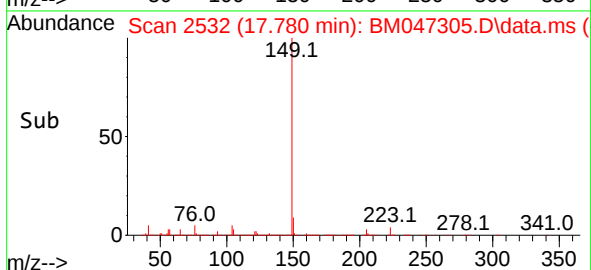
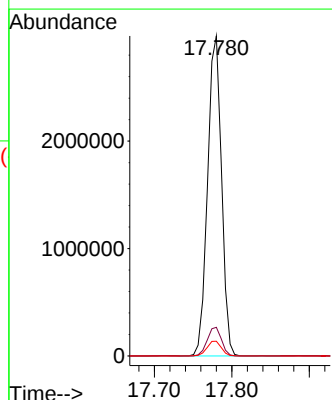
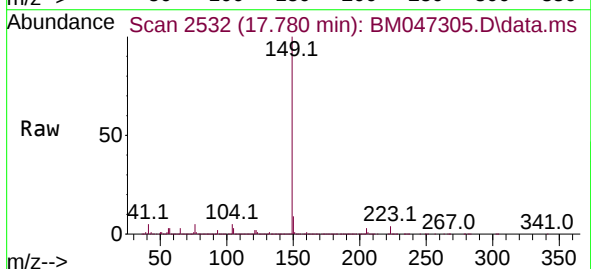
Tgt Ion:149 Resp: 3708830

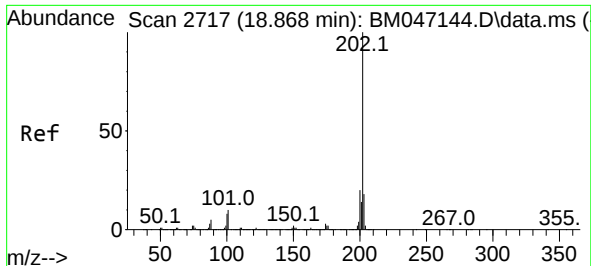
Ion Ratio Lower Upper

149 100

150 9.0 7.5 11.3

104 4.6 4.1 6.1

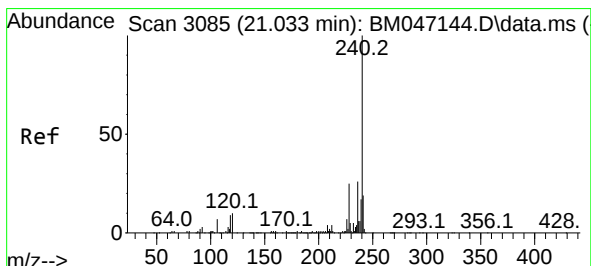
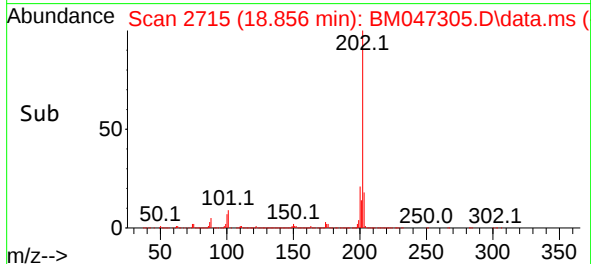
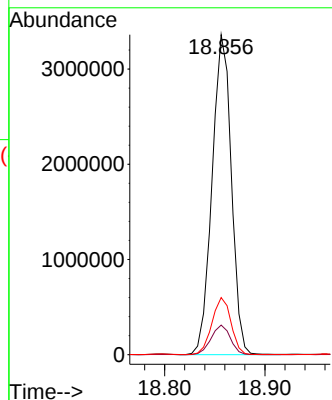
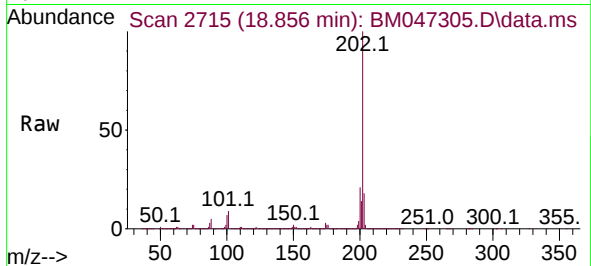




#75
Fluoranthene
Concen: 53.942 ng
RT: 18.856 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

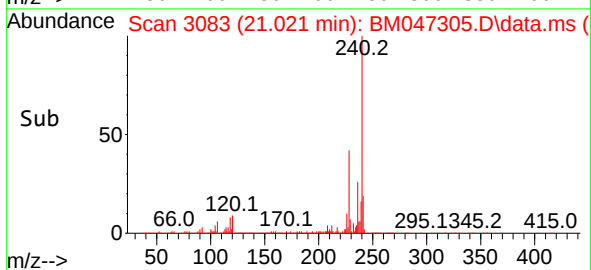
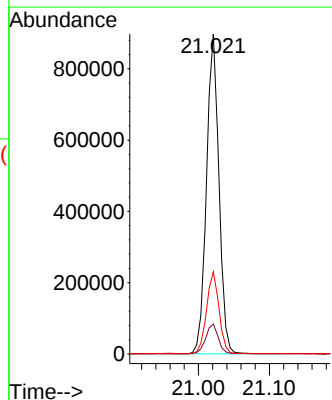
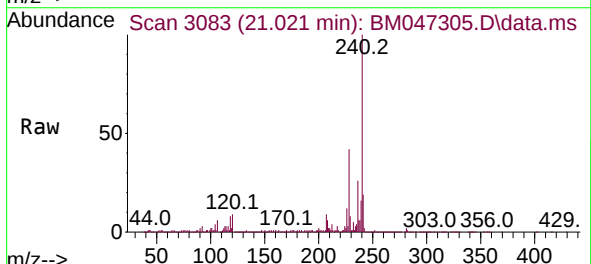
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

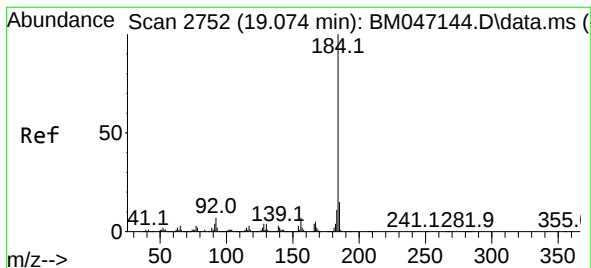
Tgt Ion:202 Resp: 4488437
Ion Ratio Lower Upper
202 100
101 9.3 0.0 30.2
203 17.8 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.021 min Scan# 3083
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:240 Resp: 1095166
Ion Ratio Lower Upper
240 100
120 9.3 8.2 12.2
236 25.7 20.6 30.8





#77

Benzidine

Concen: 87.072 ng

RT: 19.062 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

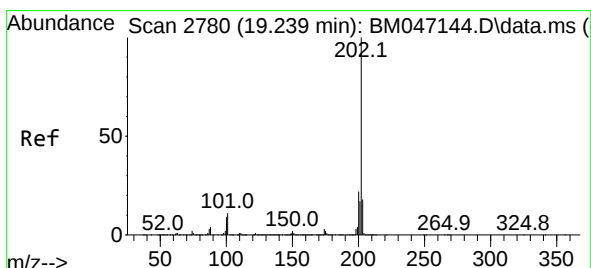
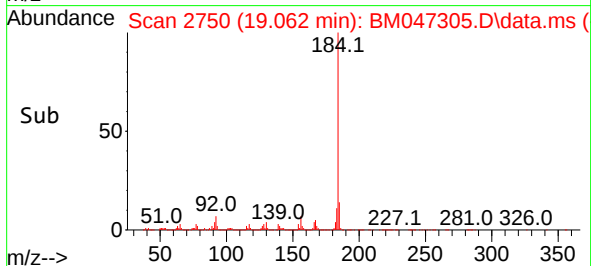
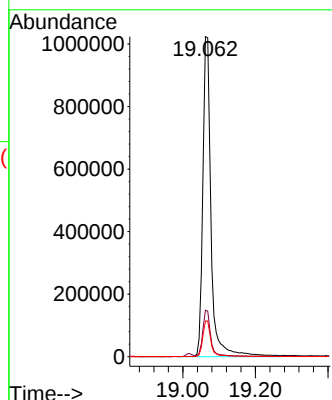
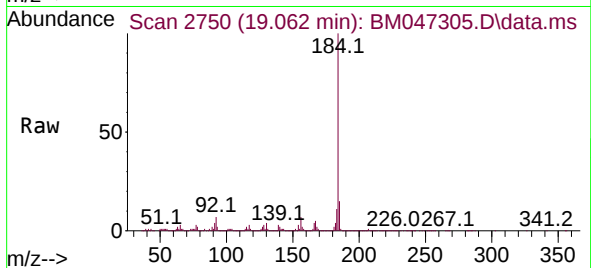
Tgt Ion:184 Resp: 1617128

Ion Ratio Lower Upper

184 100

185 14.5 11.8 17.6

183 11.2 9.0 13.6



#78

Pyrene

Concen: 59.613 ng

RT: 19.227 min Scan# 2778

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

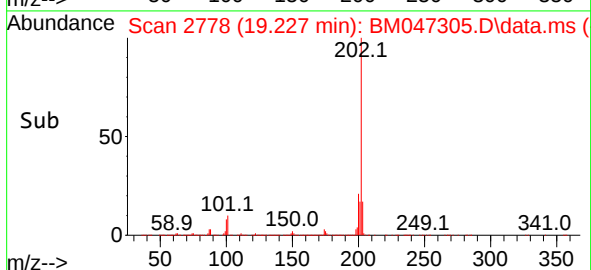
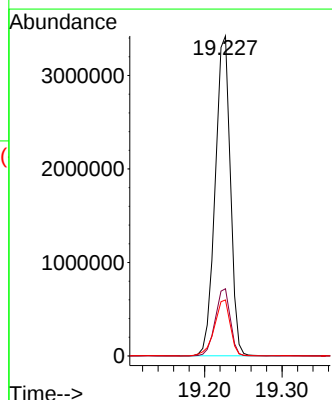
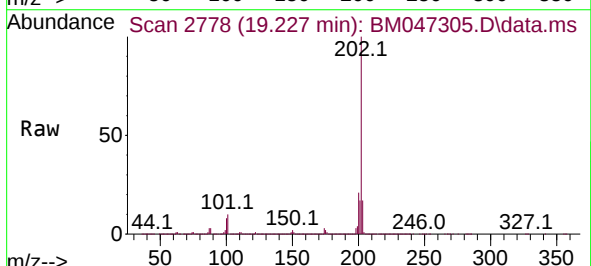
Tgt Ion:202 Resp: 4661610

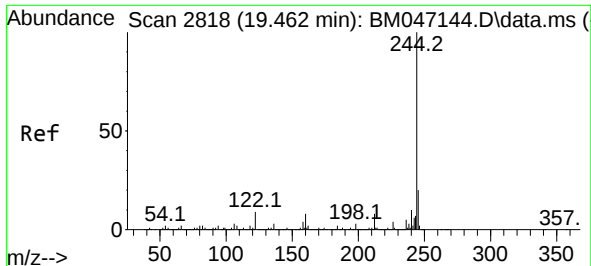
Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

203 17.5 14.2 21.2

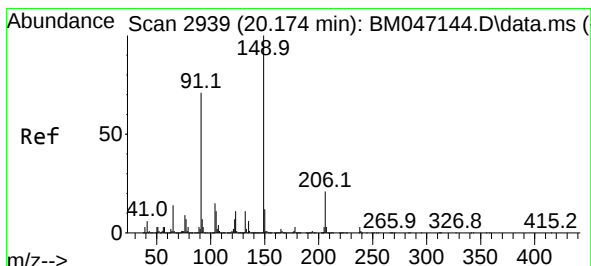
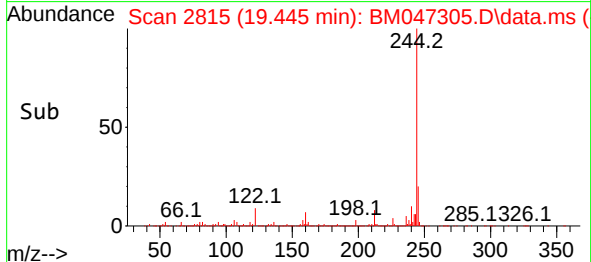
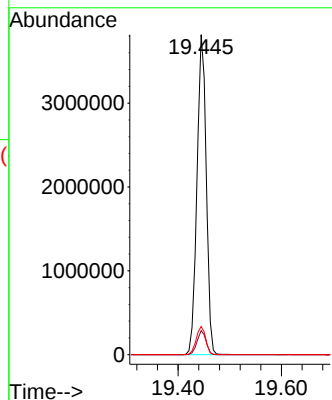
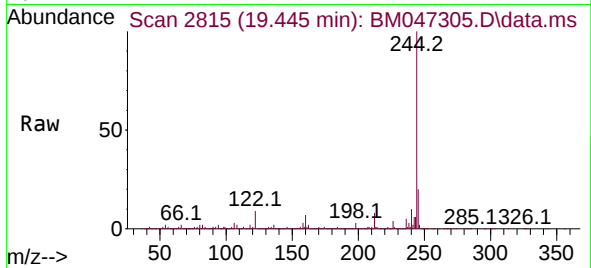




#79
 Terphenyl-d14
 Concen: 92.836 ng
 RT: 19.445 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BM047305.D
 Acq: 21 Aug 2024 19:44

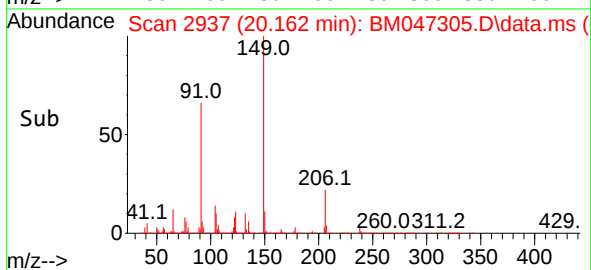
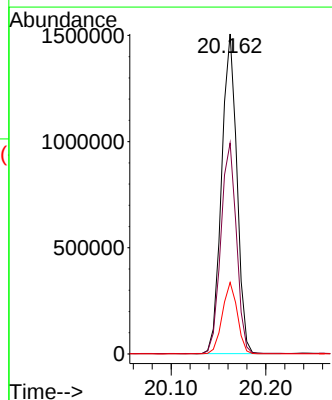
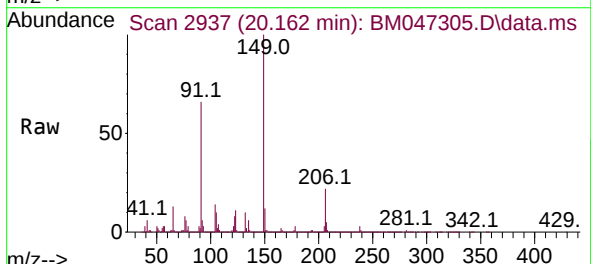
Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOILMSD

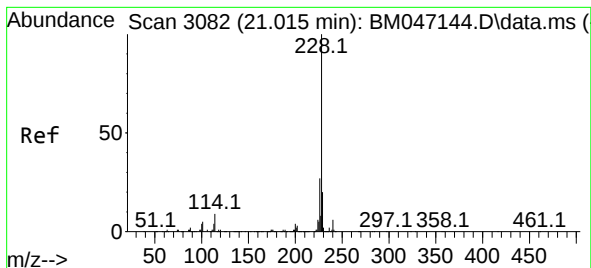
Tgt Ion:244 Resp: 4744838
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.2 9.4
 122 8.8 7.1 10.7



#80
 Butylbenzylphthalate
 Concen: 52.935 ng
 RT: 20.162 min Scan# 2937
 Delta R.T. -0.012 min
 Lab File: BM047305.D
 Acq: 21 Aug 2024 19:44

Tgt Ion:149 Resp: 1689290
 Ion Ratio Lower Upper
 149 100
 91 65.9 57.0 85.4
 206 22.3 16.4 24.6





#81

Benzo(a)anthracene

Concen: 52.006 ng

RT: 21.003 min Scan# 3080

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

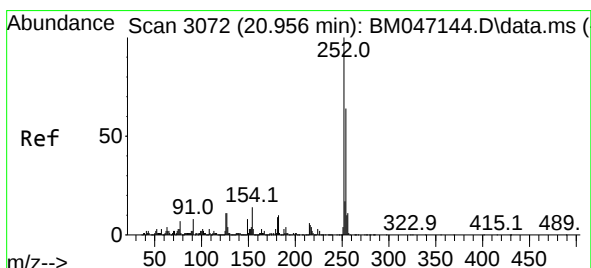
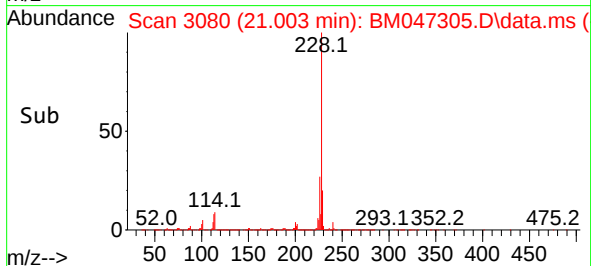
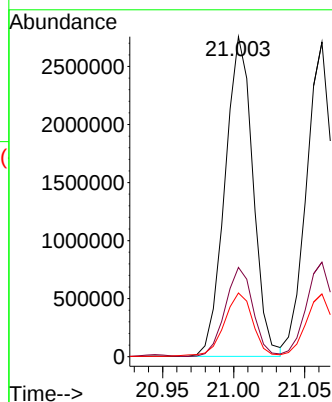
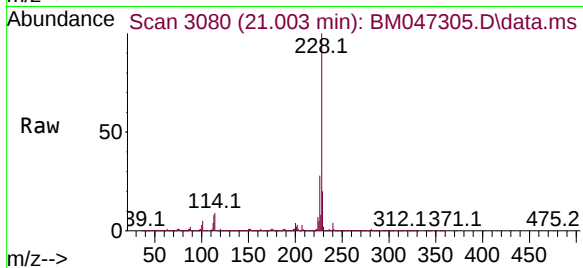
Tgt Ion:228 Resp: 3781045

Ion Ratio Lower Upper

228 100

226 27.9 21.8 32.6

229 19.9 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 52.189 ng

RT: 20.944 min Scan# 3070

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

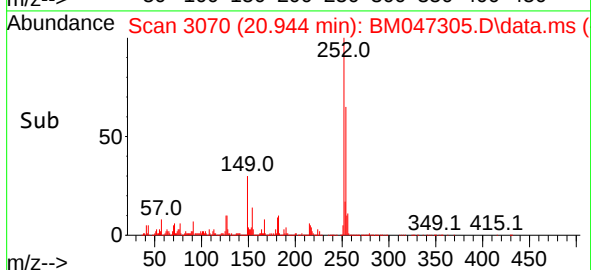
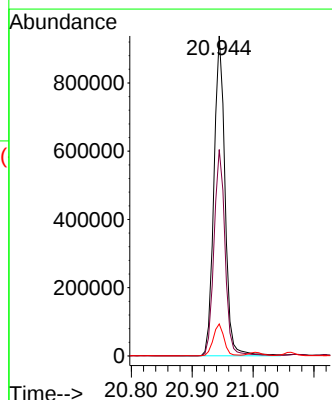
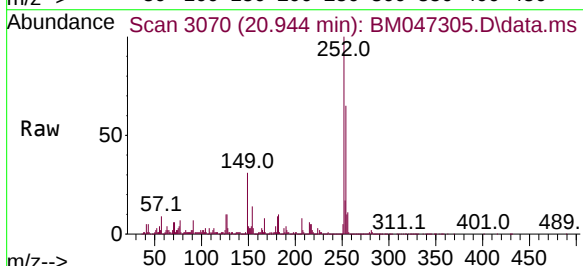
Tgt Ion:252 Resp: 1187179

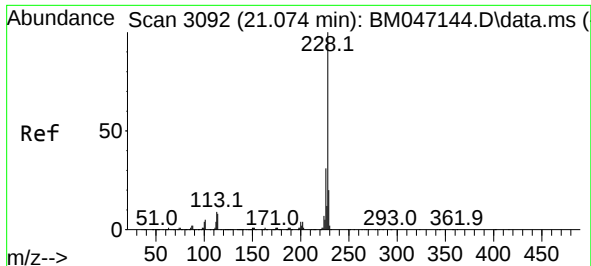
Ion Ratio Lower Upper

252 100

254 64.5 51.0 76.6

126 10.0 8.5 12.7

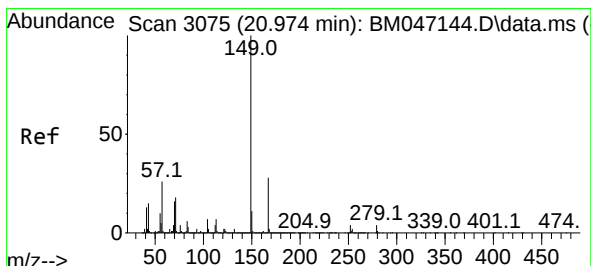
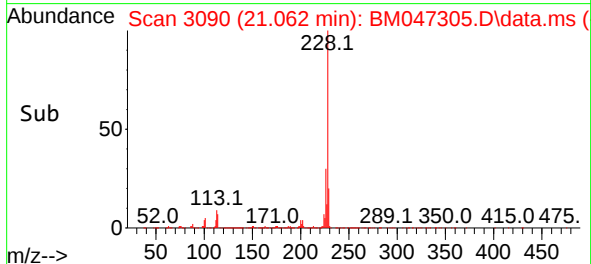
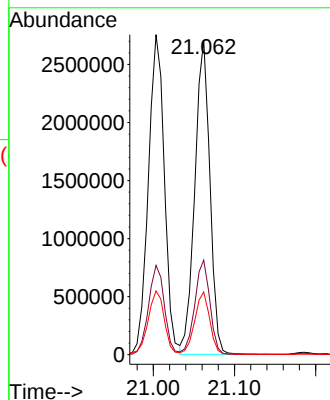
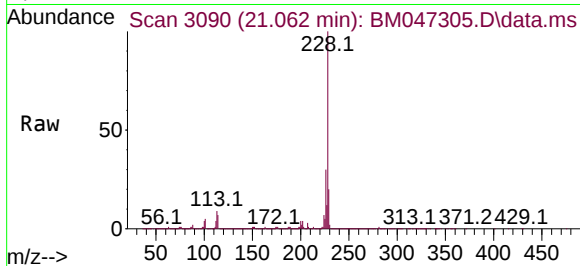




#83
Chrysene
Concen: 50.634 ng
RT: 21.062 min Scan# 3092
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

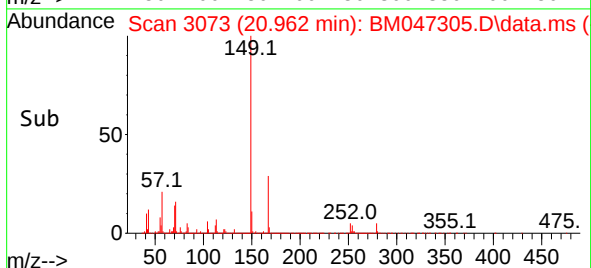
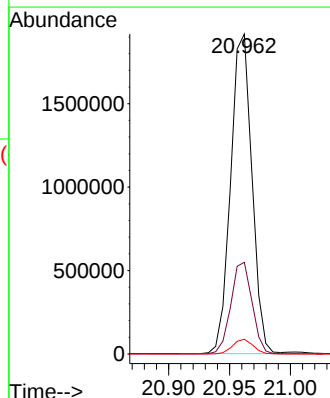
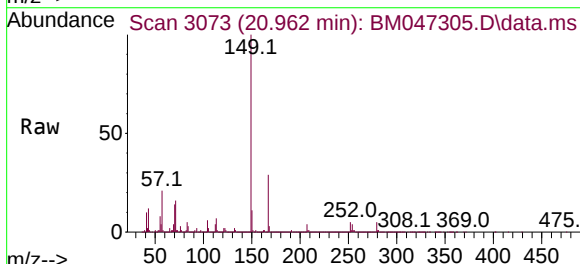
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

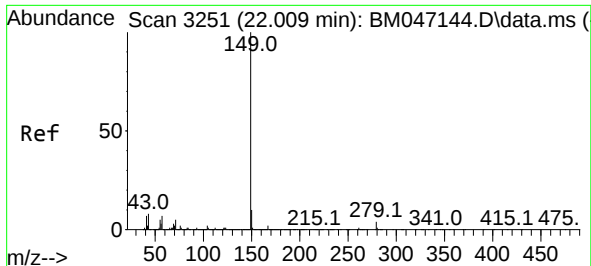
Tgt Ion:228 Resp: 3492697
Ion Ratio Lower Upper
228 100
226 30.0 24.4 36.6
229 20.0 15.7 23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 51.448 ng
RT: 20.962 min Scan# 3073
Delta R.T. -0.012 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:149 Resp: 2328412
Ion Ratio Lower Upper
149 100
167 28.7 22.2 33.2
279 4.6 3.0 4.4#

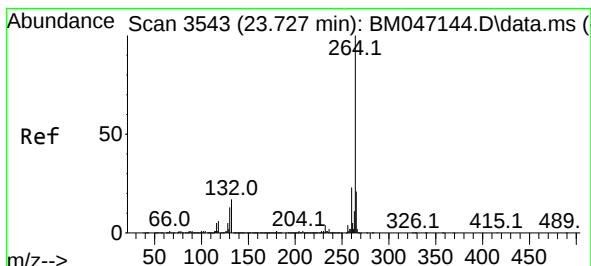
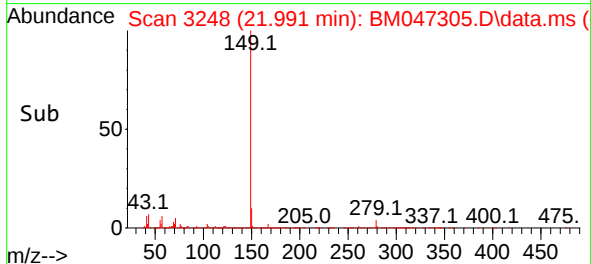
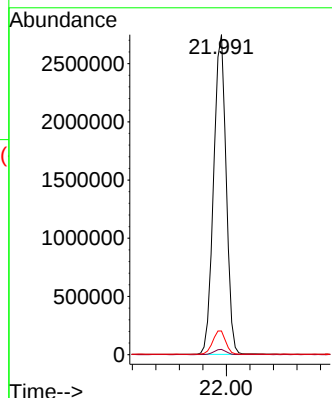
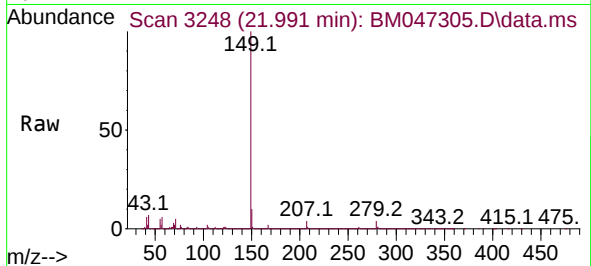




#85
Di-n-octyl phthalate
Concen: 52.751 ng
RT: 21.991 min Scan# 31
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

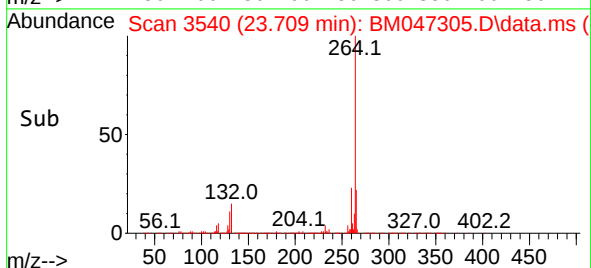
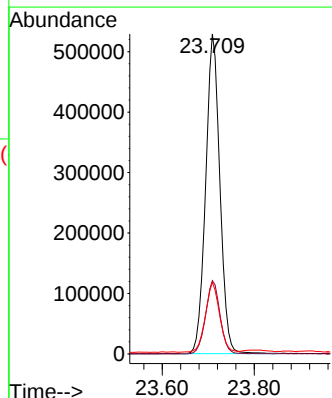
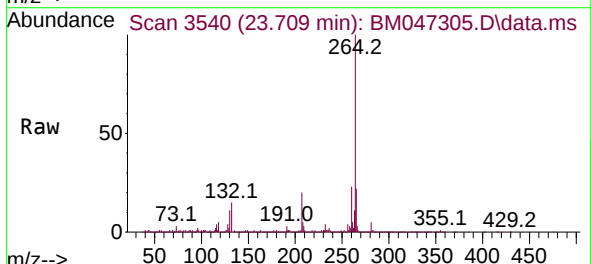
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOILMSD

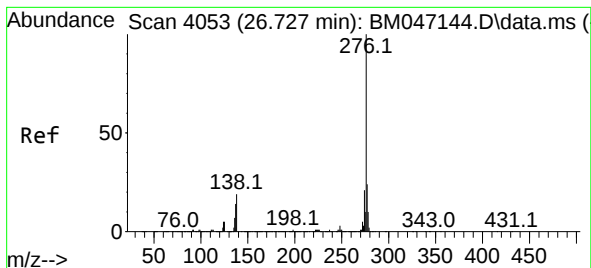
Tgt Ion:149 Resp: 4057834
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 7.5 6.9 10.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.709 min Scan# 3540
Delta R.T. -0.018 min
Lab File: BM047305.D
Acq: 21 Aug 2024 19:44

Tgt Ion:264 Resp: 1137934
Ion Ratio Lower Upper
264 100
260 22.9 18.5 27.7
265 22.5 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 52.259 ng

RT: 26.715 min Scan# 4051

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

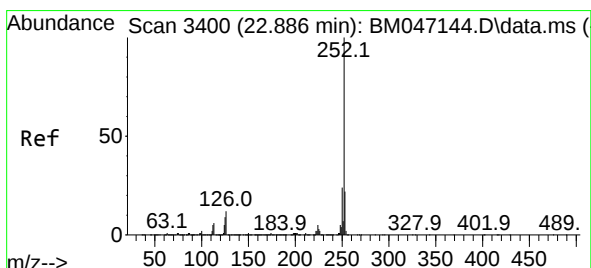
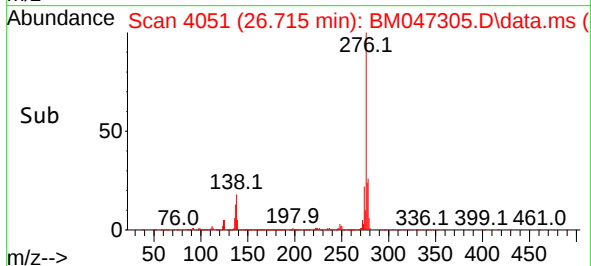
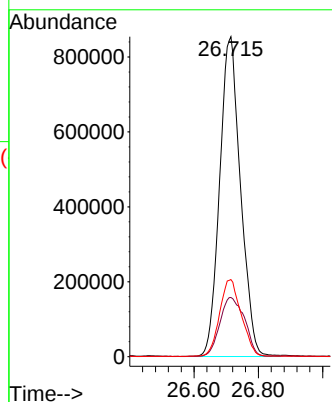
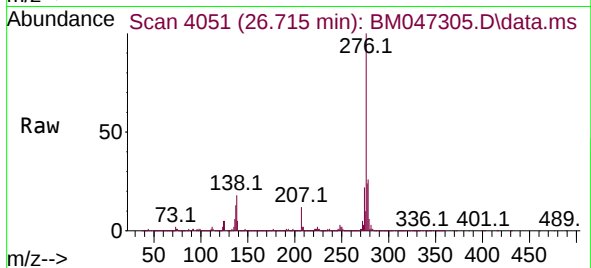
Tgt Ion:276 Resp: 3843868

Ion Ratio Lower Upper

276 100

138 21.9 19.4 29.0

277 25.0 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 51.606 ng

RT: 22.874 min Scan# 3398

Delta R.T. -0.012 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

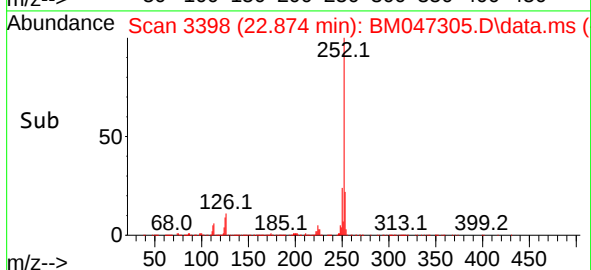
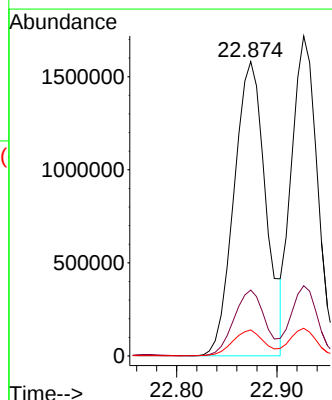
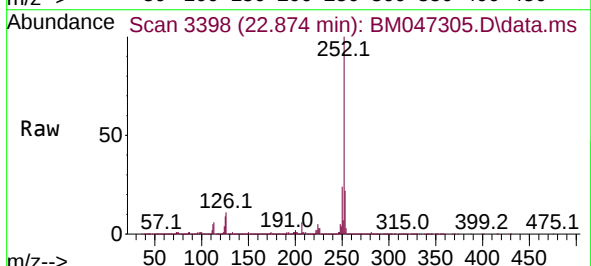
Tgt Ion:252 Resp: 3487370

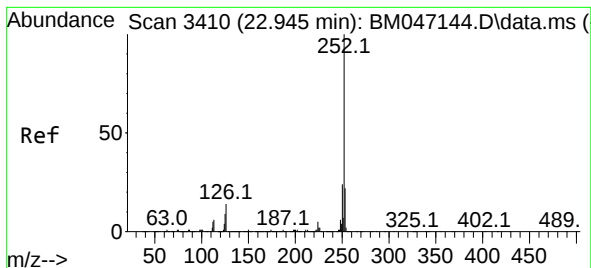
Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.6

125 8.9 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 47.941 ng

RT: 22.927 min Scan# 34

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

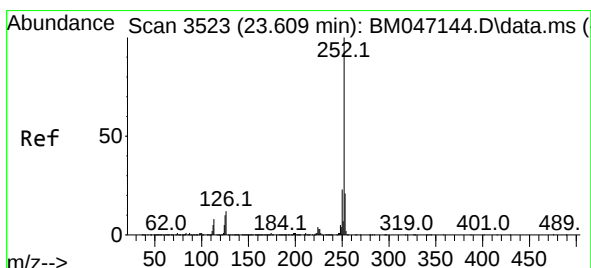
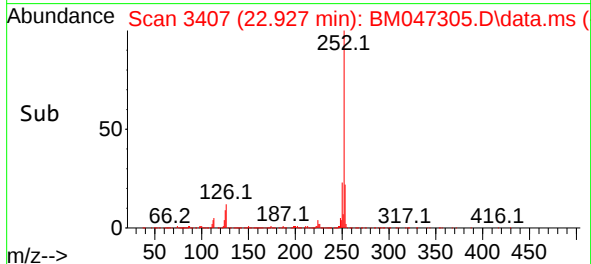
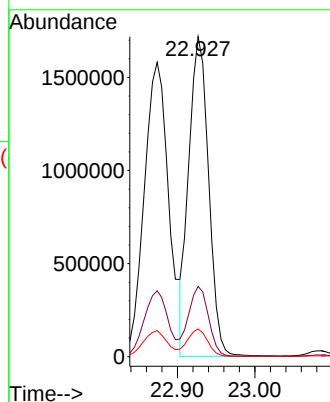
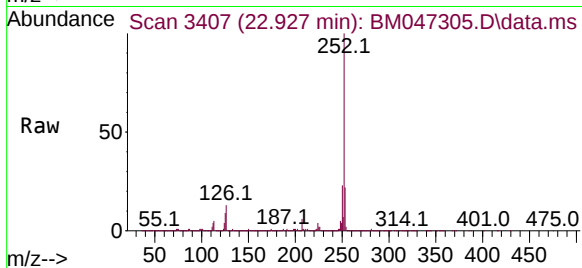
Tgt Ion:252 Resp: 3060063

Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

125 8.7 7.4 11.2



#90

Benzo(a)pyrene

Concen: 53.700 ng

RT: 23.591 min Scan# 3520

Delta R.T. -0.018 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

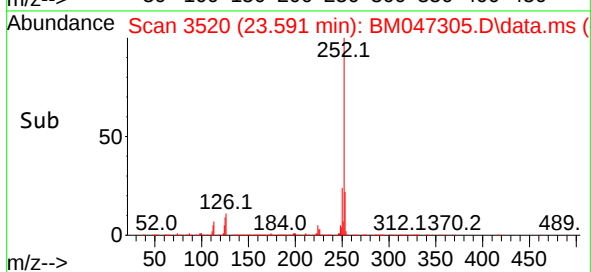
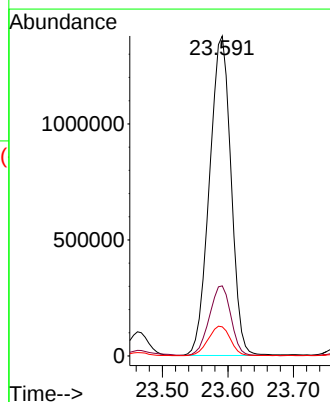
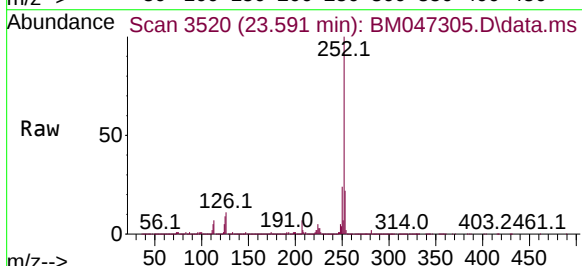
Tgt Ion:252 Resp: 3143585

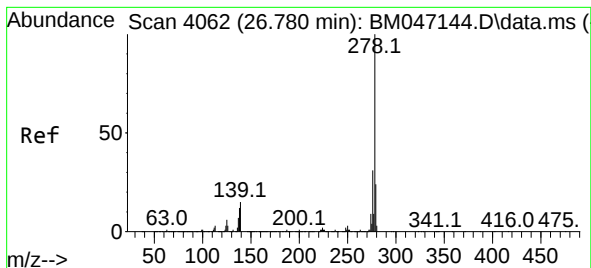
Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

125 9.1 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 48.782 ng

RT: 26.756 min Scan# 4062

Delta R.T. -0.024 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOILMSD

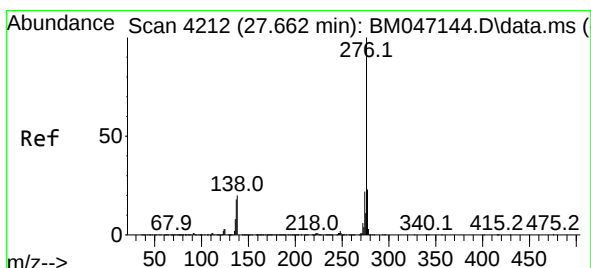
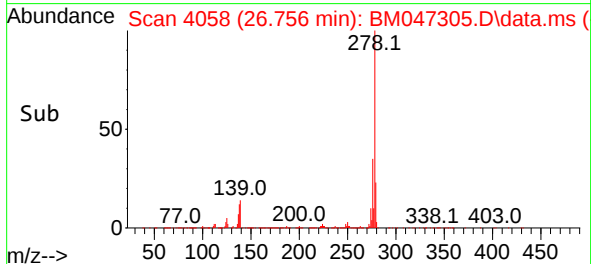
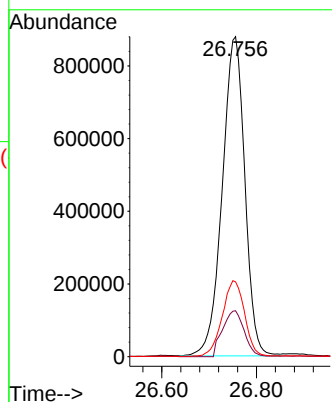
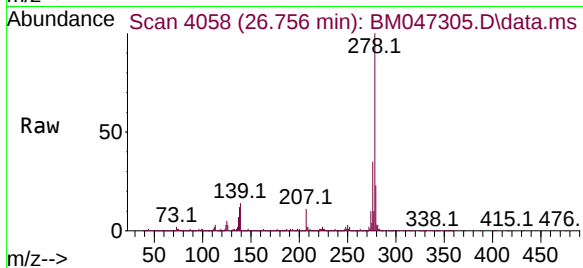
Tgt Ion:278 Resp: 2903772

Ion Ratio Lower Upper

278 100

139 14.3 12.0 18.0

279 23.4 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 49.273 ng

RT: 27.632 min Scan# 4207

Delta R.T. -0.030 min

Lab File: BM047305.D

Acq: 21 Aug 2024 19:44

Tgt Ion:276 Resp: 3045162

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 19.1 16.2 24.4

