

Data Path : Z:\HPCHEM1\BNA N\DATA\BN021518\
 Data File : BN000089.D
 Acq On : 15 Feb 2018 10:40
 Operator : JU/SJ
 Sample : J1161-01
 Misc : 1 PPM LOD
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

Quant Time: Feb 16 06:05:00 2018
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\8270-BN020718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 07 18:24:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.46	152	402680	20.00	ng	0.00
21) Naphthalene-d8	11.30	136	1995115	20.00	ng	0.00
38) Acenaphthene-d10	15.07	164	1192414	20.00	ng	-0.01
63) Phenanthrene-d10	17.79	188	2688802	20.00	ng	0.00
75) Chrysene-d12	21.90	240	2788131	20.00	ng	-0.02
86) Perylene-d12	24.39	264	2925678	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.93	112	3366204	136.24	ng	-0.01
7) Phenol-d6	7.58	99	4726869	126.30	ng	-0.01
23) Nitrobenzene-d5	9.64	82	3238982	96.52	ng	-0.01
41) 2,4,6-Tribromophenol	16.54	330	1574071	133.36	ng	-0.01
44) 2-Fluorobiphenyl	13.70	172	8186884	96.77	ng	-0.01
78) Terphenyl-d14	20.35	244	9990560	96.75	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Aniline	7.77	93	38731	0.751	ng	97
8) 2-Chlorophenol	8.01	128	28288	0.979	ng	93
9) Benzaldehyde	7.58	77	22583	0.970	ng	# 73
10) Phenol	7.61	94	37867	0.958	ng	87
11) bis(2-Chloroethyl)ether	7.86	93	30740	0.946	ng	# 80
12) 1,3-Dichlorobenzene	8.35	146	32437	0.988	ng	95
13) 1,4-Dichlorobenzene	8.50	146	32714	0.976	ng	99
14) 1,2-Dichlorobenzene	8.82	146	34310	1.040	ng	90
15) Benzyl Alcohol	8.69	79	19751	0.734	ng	# 87
16) 2,2'-oxybis(1-Chloropropan	8.98	45	32892	0.956	ng	79
18) Hexachloroethane	9.57	117	10362	0.888	ng	# 75
24) Nitrobenzene	9.68	77	36061	0.983	ng	# 91
31) Naphthalene	11.35	128	106995	0.978	ng	# 94
34) Hexachlorobutadiene	11.63	225	15741	0.947	ng	94
37) 2-Methylnaphthalene	12.93	142	66705	0.876	ng	93
39) 1,2,4,5-Tetrachlorobenzene	13.29	216	33324	0.947	ng	# 96
45) 1,1'-Biphenyl	13.92	154	114637	1.092	ng	97
46) 2-Chloronaphthalene	13.96	162	74229	0.942	ng	96
47) 2-Nitroaniline	14.15	65	9449	5.246	ng	# 83
48) Acenaphthylene	14.80	152	89792	0.707	ng	99
49) Dimethylphthalate	14.50	163	75393	0.756	ng	98
50) 2,6-Dinitrotoluene	14.63	165	7493	0.364	ng	# 84
51) Acenaphthene	15.13	154	76274	0.923	ng	96
54) Dibenzofuran	15.46	168	112744	0.963	ng	97
57) Fluorene	16.10	166	84809	0.887	ng	93
58) 2,3,4,6-Tetrachlorophenol	15.67	232	9063	0.453	ng	# 81
59) Diethylphthalate	15.85	149	70975	0.701	ng	96
62) Azobenzene	16.38	77	60155	0.597	ng	93
65) n-Nitrosodiphenylamine	16.30	169	60897	0.696	ng	98
66) 4-Bromophenyl-phenylether	16.98	248	21651	0.847	ng	# 84
67) Hexachlorobenzene	17.10	284	26911	0.901	ng	# 79
68) Atrazine	17.22	200	14795	0.520	ng	87
70) Phenanthrene	17.83	178	156229	0.984	ng	99
71) Anthracene	17.92	178	120641	0.784	ng	98

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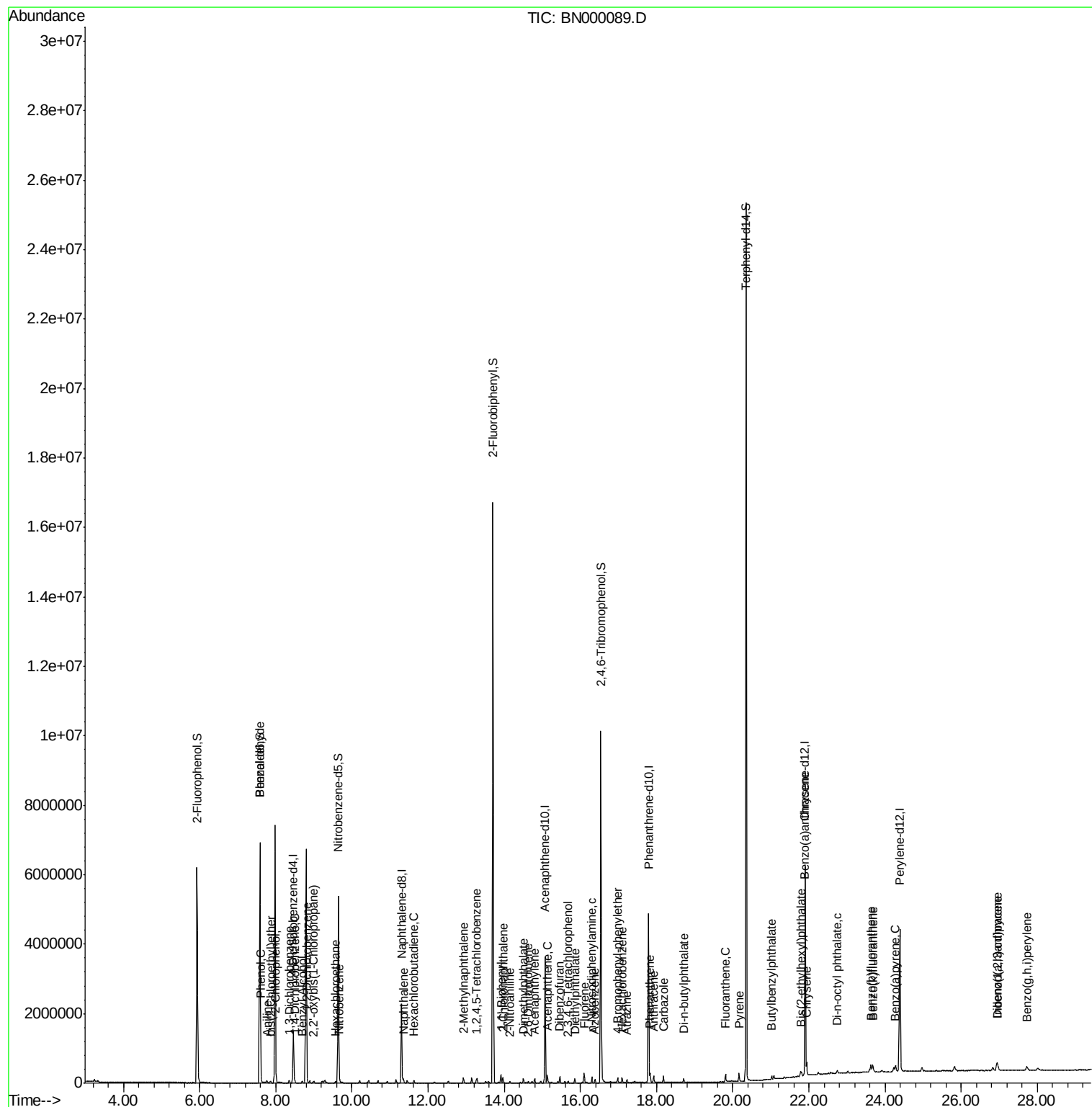
72) Carbazole	18.18	167	108883	0.703	nq	98
73) Di-n-butylphthalate	18.72	149	79195	0.463	nq	99
74) Fluoranthene	19.81	202	126969	0.762	nq	94
77) Pyrene	20.17	202	141081	0.796	nq	100
79) Butylbenzylphthalate	21.02	149	27668	5.668	nq	# 90
80) Benzo(a)anthracene	21.89	228	150918	0.881	nq	96
82) Chrysene	21.94	228	171119	1.002	nq	98
83) Bis(2-ethylhexyl)phthalate	21.79	149	40460	3.208	nq	# 90
84) Di-n-octyl phthalate	22.74	149	54275	6.926	nq	# 92
85) Indeno(1,2,3-cd)pyrene	26.94	276	154983	0.739	nq	# 86
87) Benzo(b)fluoranthene	23.63	252	147817	0.863	nq	# 92
88) Benzo(k)fluoranthene	23.68	252	138415	0.803	nq	# 95
89) Benzo(a)pyrene	24.28	252	129817	0.790	nq	# 90
90) Dibenzo(a,h)anthracene	26.95	278	129284	0.753	nq	# 91
91) Benzo(a,h,i)perylene	27.73	276	129710	0.747	nq	# 90

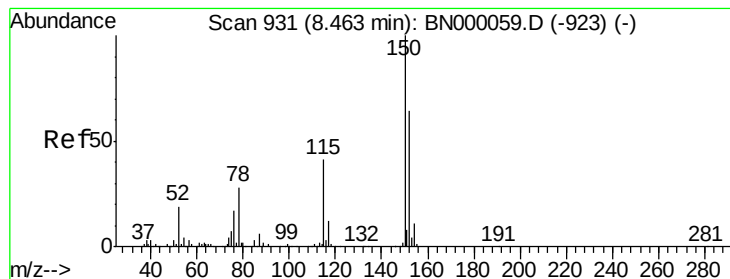
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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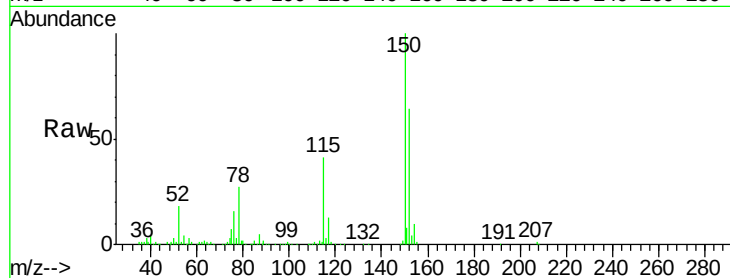


#1

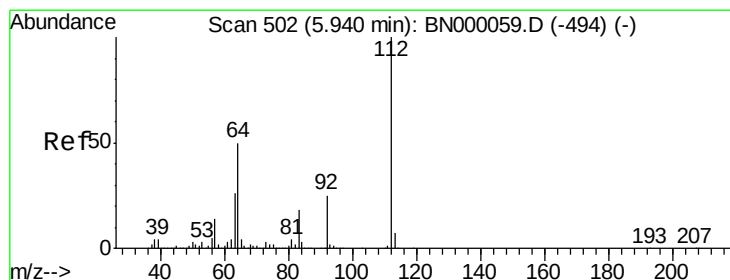
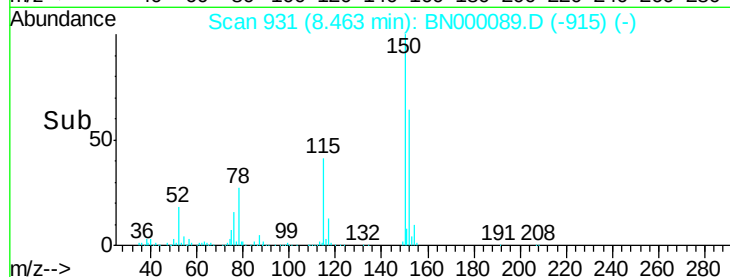
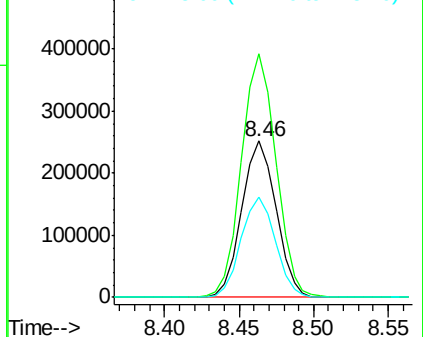
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.46 min Scan# 931
Delta R.T. -0.01 min
Lab File: BN000089.D
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Tot Ion:152 Resp: 402680
Ion Ratio Lower Upper
152 100
150 155.6 126.6 189.8
115 63.9 53.0 79.4



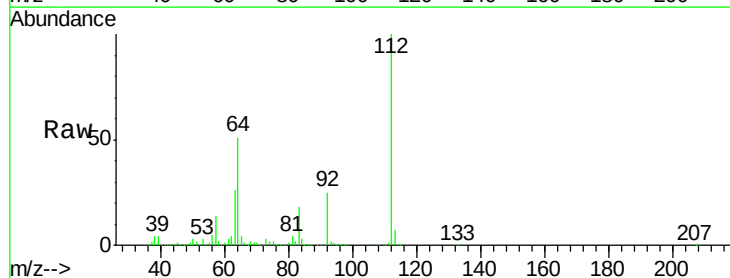
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



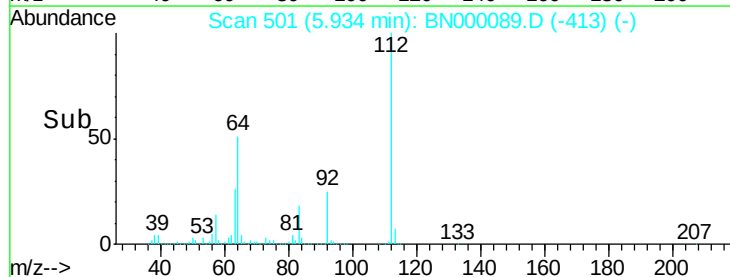
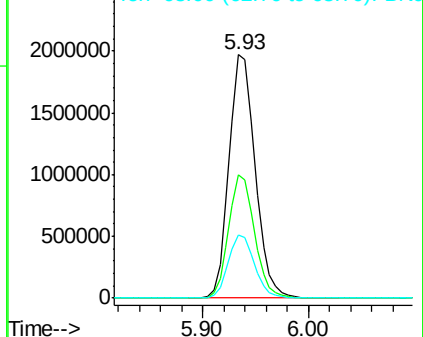
#5

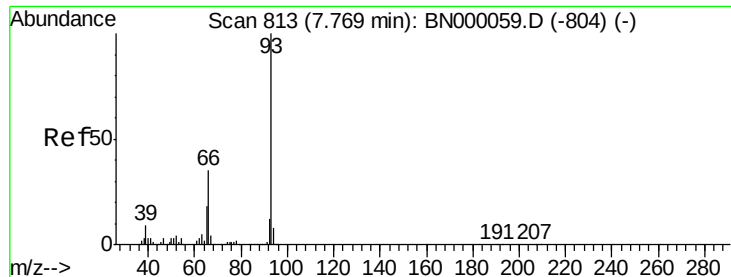
2-Fluorophenol
Concen: 136.240 ng
RT: 5.93 min Scan# 501
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion:112 Resp: 3366204
Ion Ratio Lower Upper
112 100
64 50.8 56.3 84.5#
63 25.9 30.1 45.1#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#6

Aniline

Concen: 0.751 ng

RT: 7.77 min Scan# 813

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

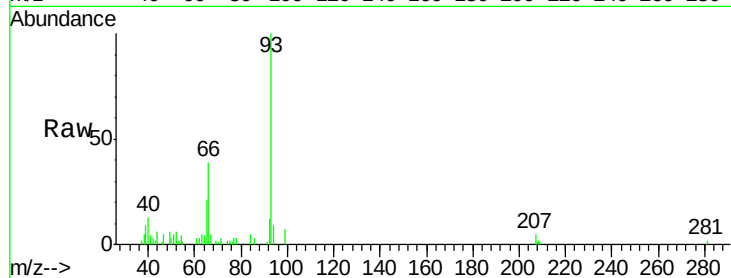
Tot Ion: 93 Resp: 38731

Ion Ratio Lower Upper

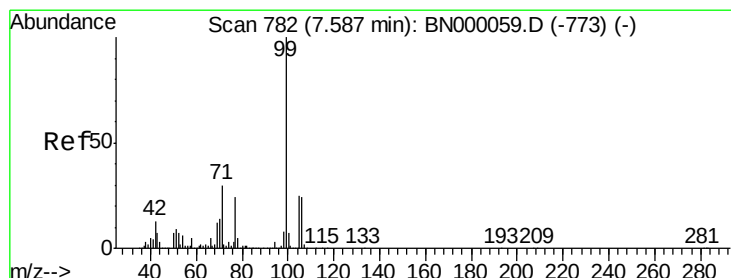
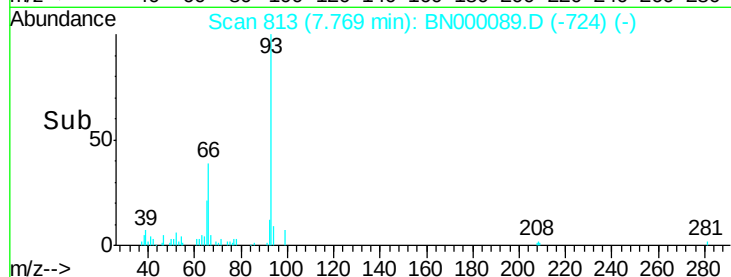
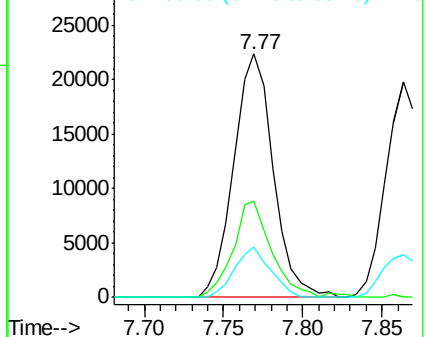
93 100

66 39.5 33.7 50.5

65 20.9 16.1 24.1



Abundance Ion 93.00 (92.70 to 93.70): BN0
Ion 66.00 (65.70 to 66.70): BN0
Ion 65.00 (64.70 to 65.70): BN0



#7

Phenol-d6

Concen: 126.298 ng

RT: 7.58 min Scan# 781

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

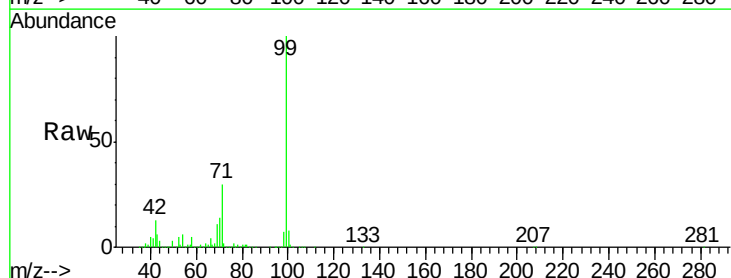
Tgt Ion: 99 Resp: 4726869

Ion Ratio Lower Upper

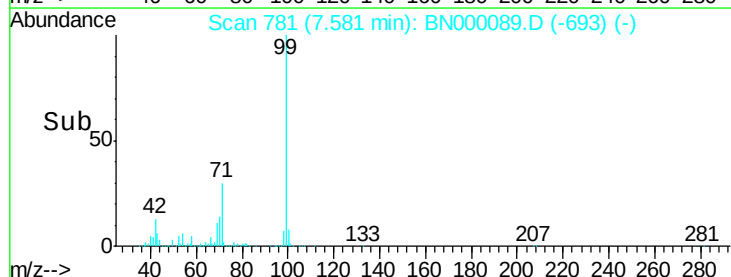
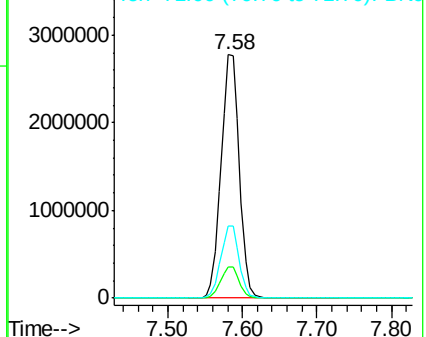
99 100

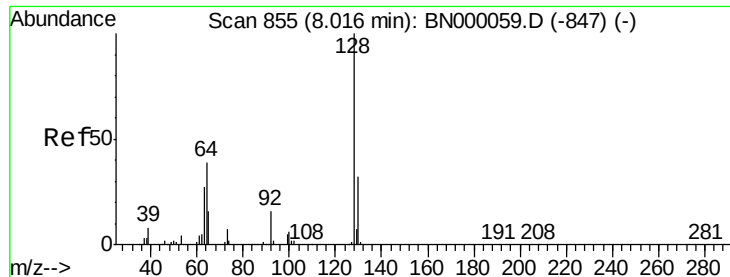
42 12.7 14.1 21.1#

71 29.8 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BN0
Ion 42.00 (41.70 to 42.70): BN0
Ion 71.00 (70.70 to 71.70): BN0





#8

2-Chlorophenol

Concen: 0.979 ng

RT: 8.01 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

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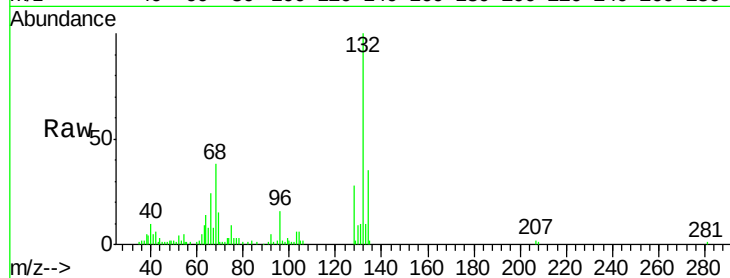
Tot Ion:128 Resp: 28288

Ion Ratio Lower Upper

128 100

130 32.3 14.0 54.0

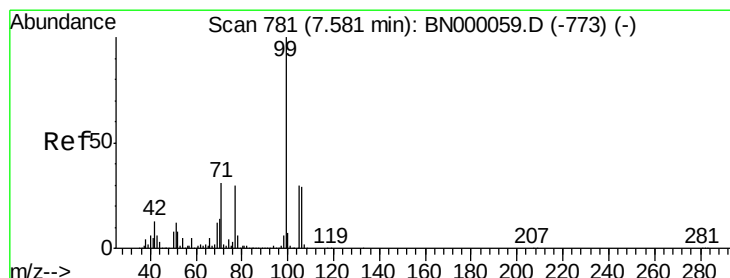
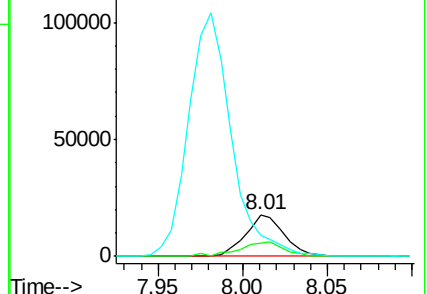
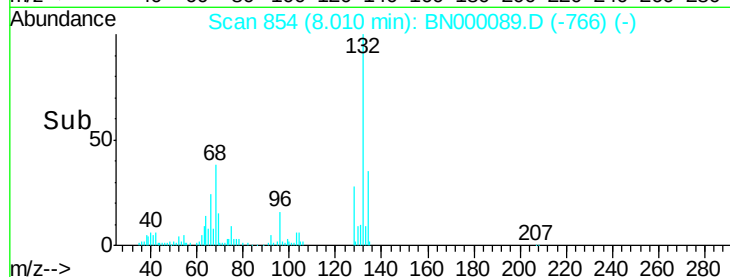
64 50.9 37.7 77.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BNC



#9

Benzaldehyde

Concen: 0.970 ng

RT: 7.58 min Scan# 781

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

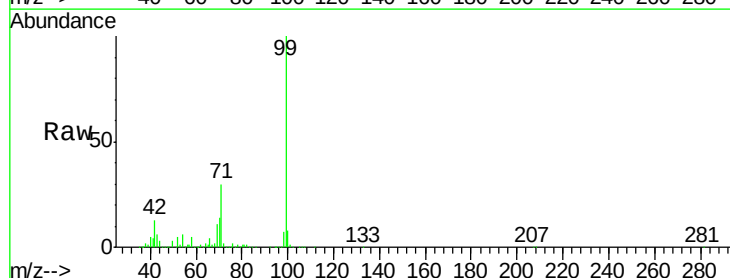
Tgt Ion: 77 Resp: 22583

Ion Ratio Lower Upper

77 100

105 67.0 71.3 111.3#

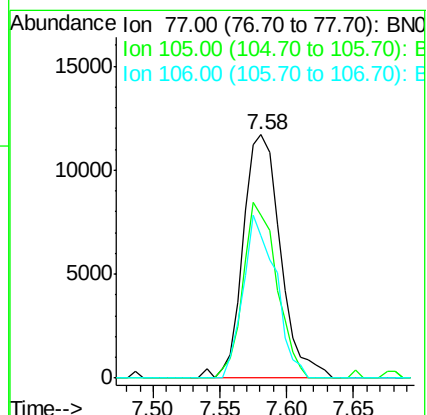
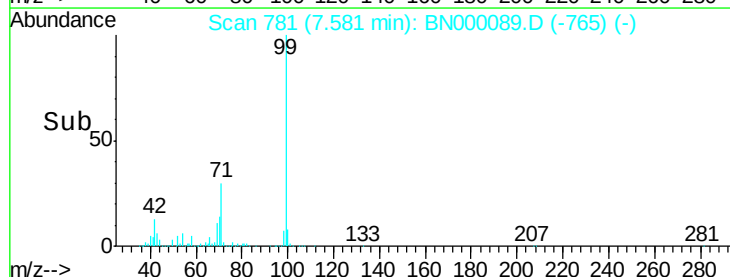
106 58.8 64.2 104.2#

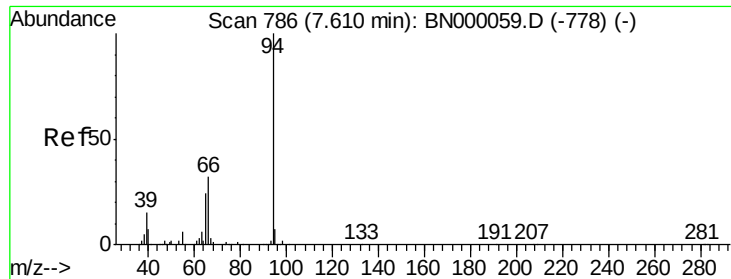


Abundance Ion 77.00 (76.70 to 77.70): BNC

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 0.958 ng

RT: 7.61 min Scan# 786

Delta R.T. -0.01 min

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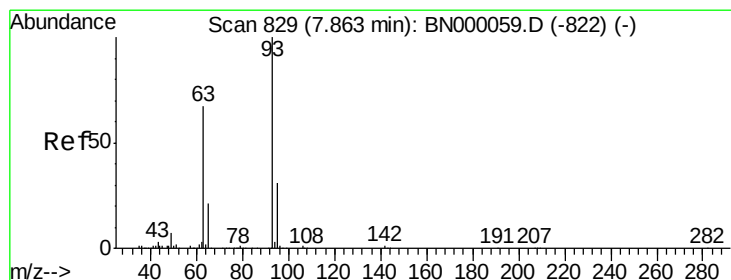
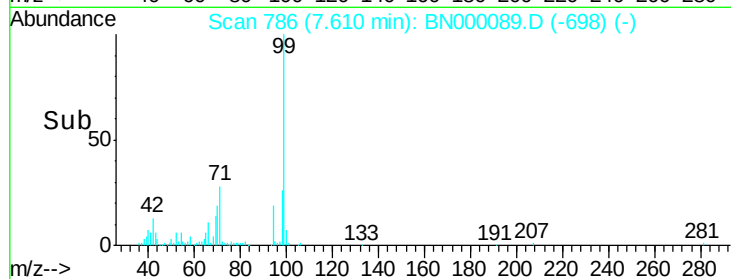
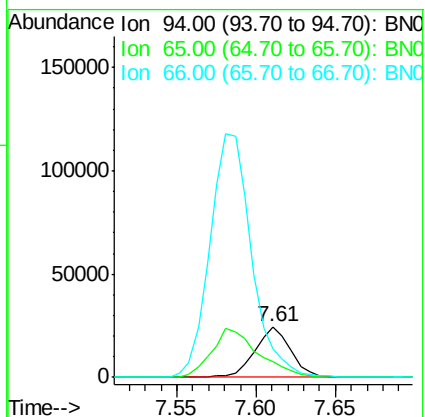
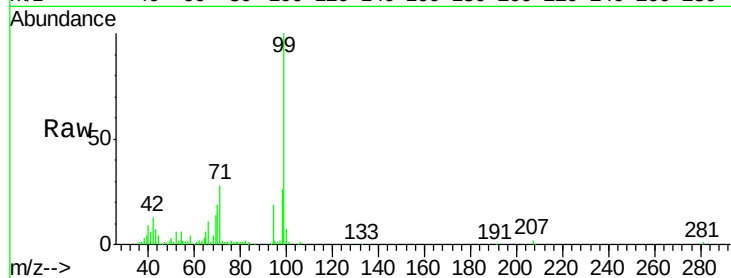
Tot Ion: 94 Resp: 37867

Ion Ratio Lower Upper

94 100

65 32.0 11.9 51.9

66 56.2 22.2 62.2



#11

bis(2-Chloroethyl)ether

Concen: 0.946 ng

RT: 7.86 min Scan# 829

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

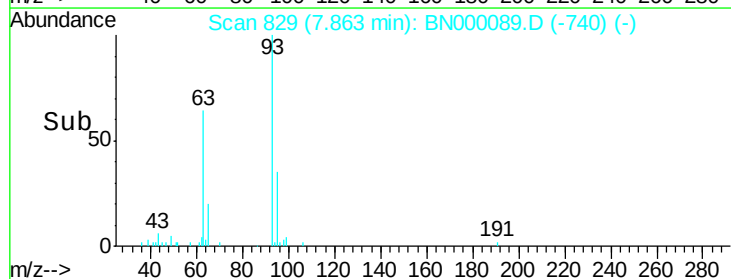
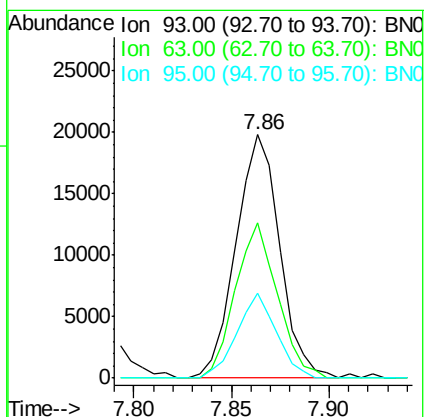
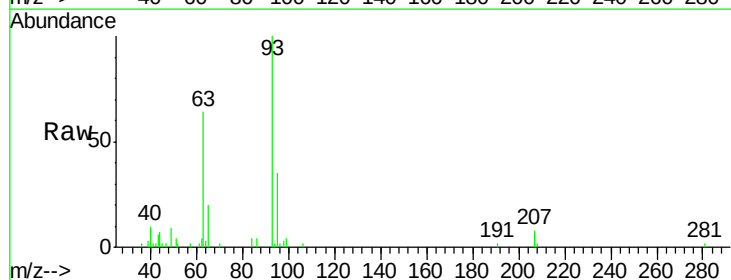
Tgt Ion: 93 Resp: 30740

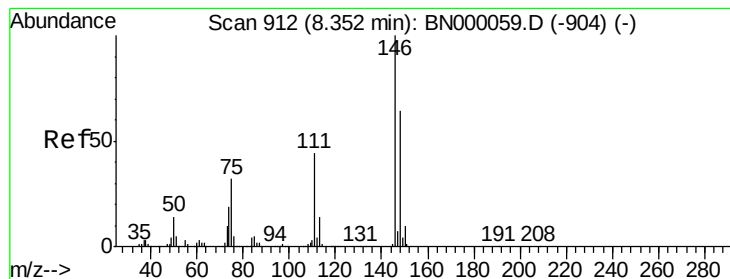
Ion Ratio Lower Upper

93 100

63 63.5 67.1 107.1#

95 34.8 11.5 51.5





#12

1,3-Dichlorobenzene

Concen: 0.988 ng

RT: 8.35 min Scan# 912

Delta R.T. -0.01 min

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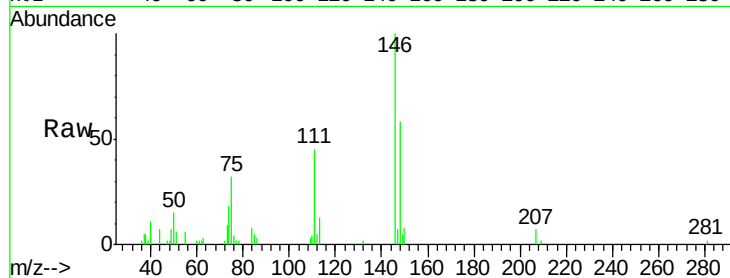
Tot Ion:146 Resp: 32437

Ion Ratio Lower Upper

146 100

148 58.5 51.4 77.2

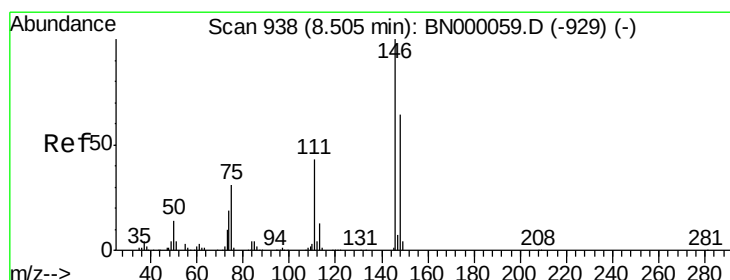
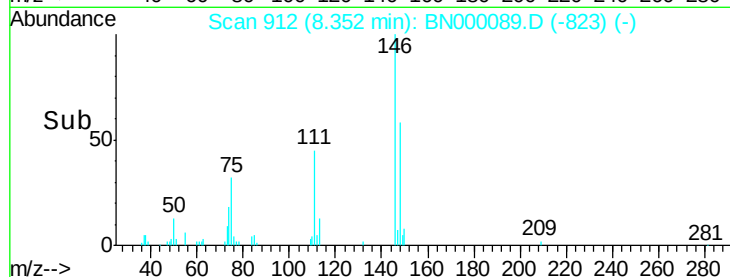
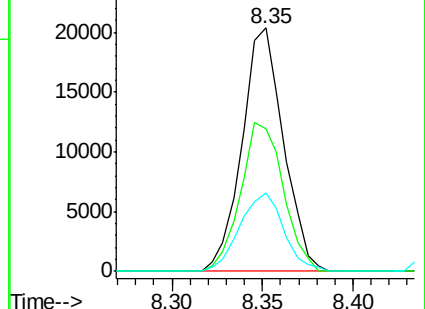
75 32.4 26.6 39.8



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BNC



#13

1,4-Dichlorobenzene

Concen: 0.976 ng

RT: 8.50 min Scan# 937

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

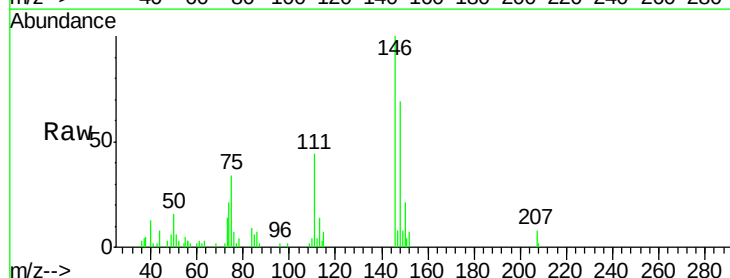
Tgt Ion:146 Resp: 32714

Ion Ratio Lower Upper

146 100

148 68.7 53.7 80.5

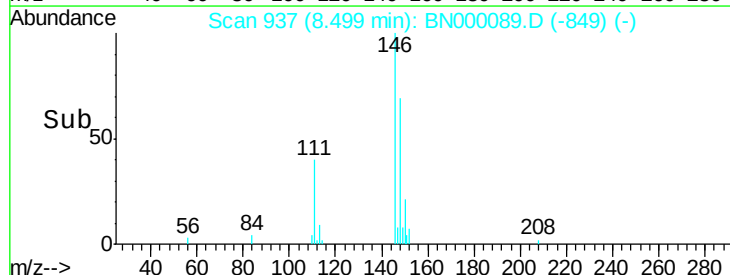
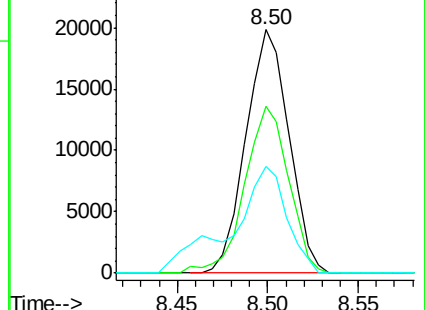
111 43.6 35.2 52.8

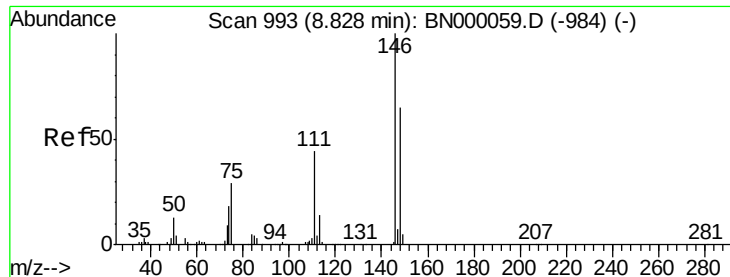


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 1.040 ng

RT: 8.82 min Scan# 992

Delta R.T. -0.01 min

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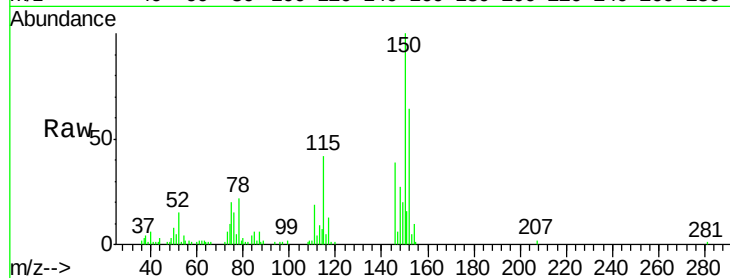
Tot Ion:146 Resp: 34310

Ion Ratio Lower Upper

146 100

148 69.4 49.3 73.9

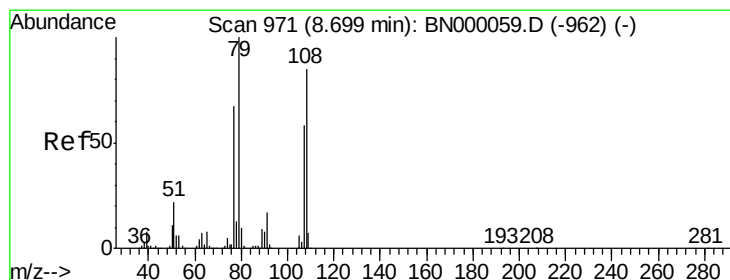
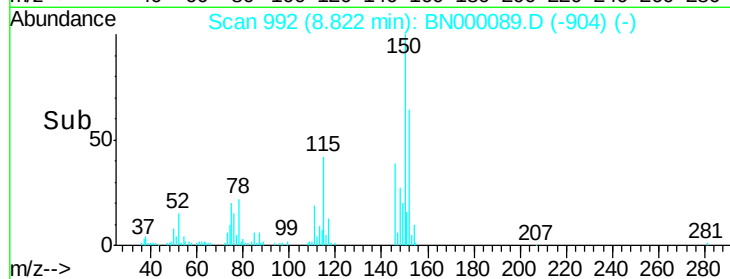
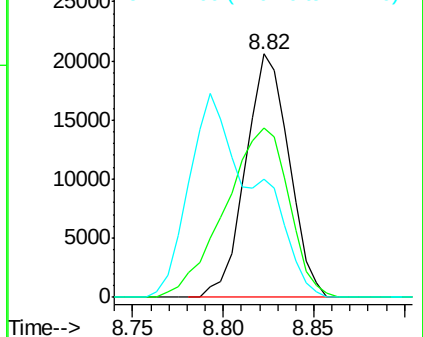
111 48.6 34.3 51.5



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15

Benzyl Alcohol

Concen: 0.734 ng

RT: 8.69 min Scan# 970

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

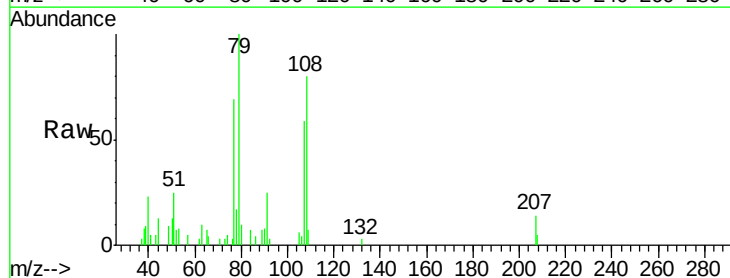
Tgt Ion: 79 Resp: 19751

Ion Ratio Lower Upper

79 100

108 79.5 57.2 85.8

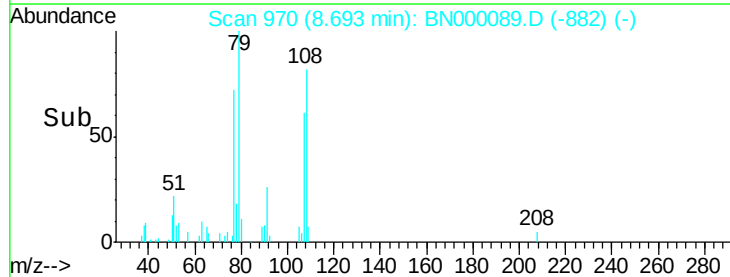
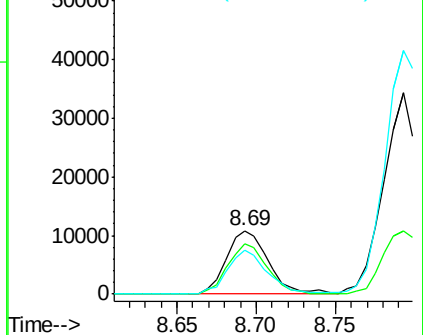
77 69.5 46.1 69.1#

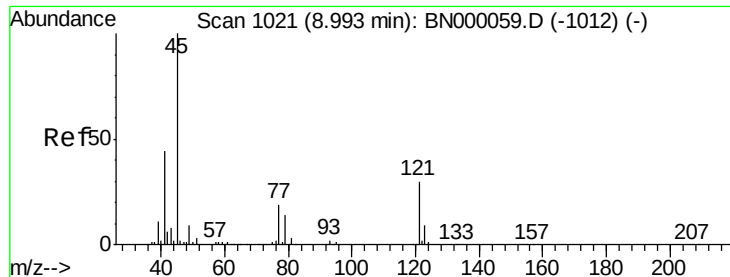


Abundance Ion 79.00 (78.70 to 79.70): BNC

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BNC

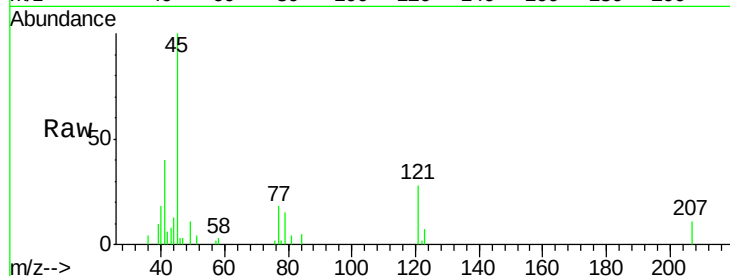




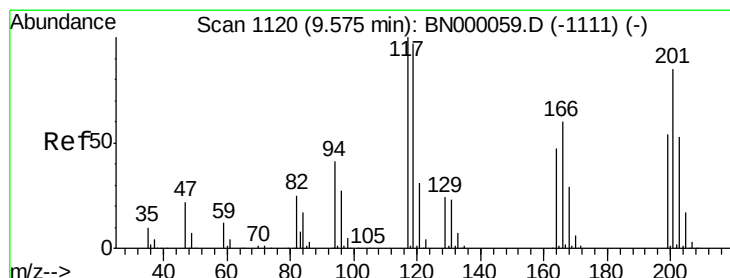
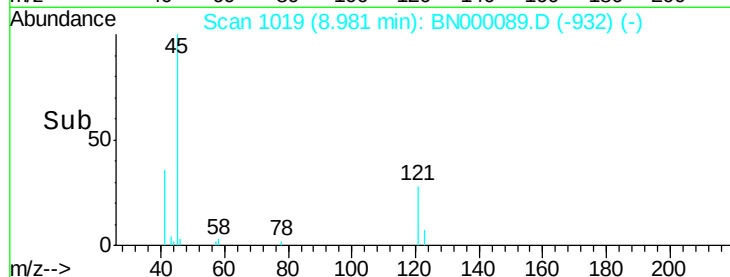
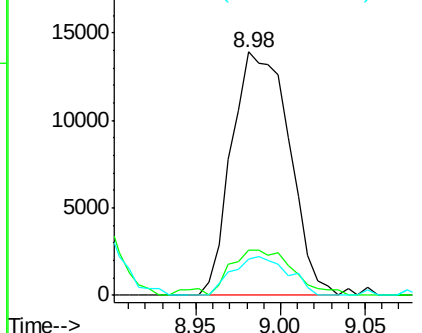
#16
2,2'-oxvbis(1-Chloropropane)
Concen: 0.956 ng
RT: 8.98 min Scan# 1019
Delta R.T. -0.02 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion: 45 Resp: 32892
Ion Ratio Lower Upper
45 100
77 18.4 0.0 30.2
79 15.0 0.0 27.9

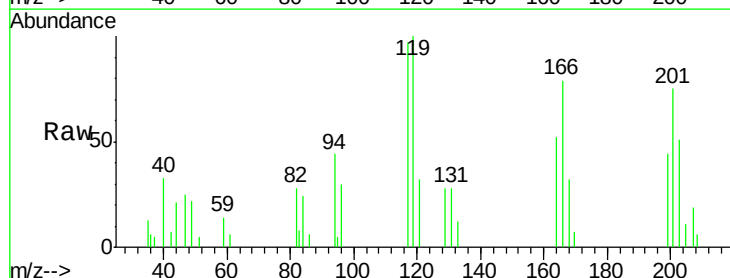


Abundance Ion 45.00 (44.70 to 45.70): BN0
Ion 77.00 (76.70 to 77.70): BN0
Ion 79.00 (78.70 to 79.70): BN0

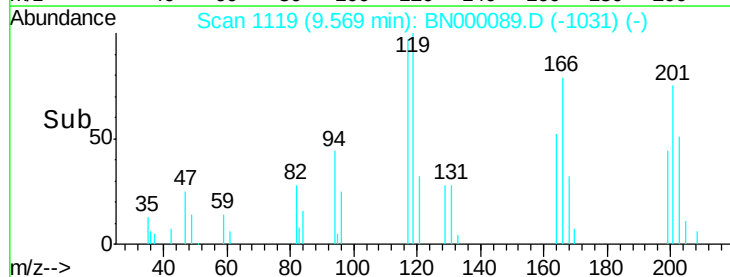
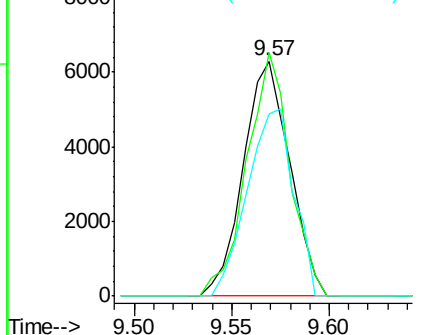


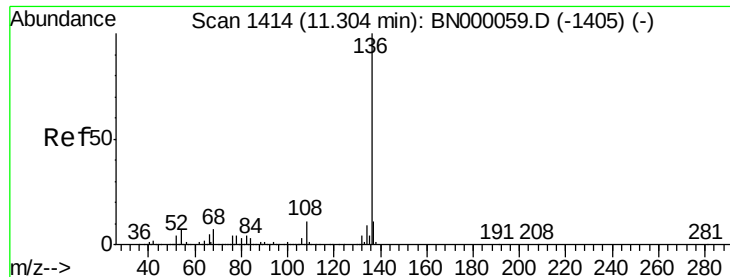
#18
Hexachloroethane
Concen: 0.888 ng
RT: 9.57 min Scan# 1119
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion: 117 Resp: 10362
Ion Ratio Lower Upper
117 100
119 103.5 76.7 115.1
201 77.4 95.7 143.5#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.30 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

Tot Ion:136 Resp: 1995115

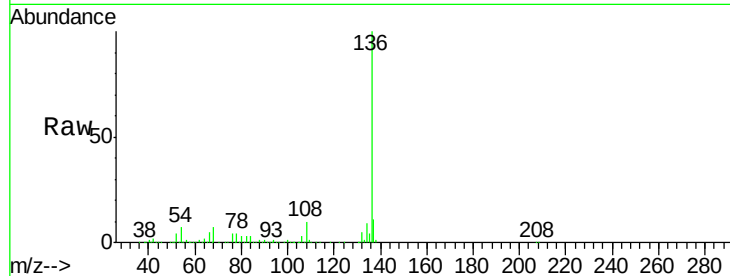
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 6.8 10.3 15.5#

68 6.6 4.5 6.7

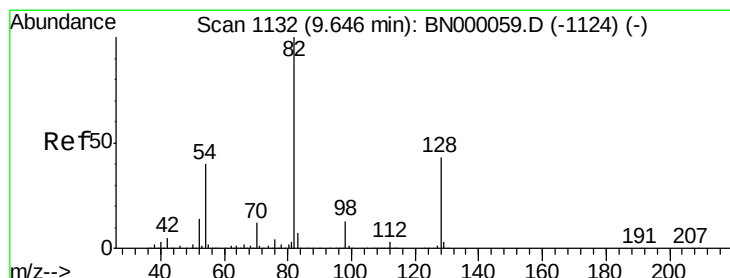
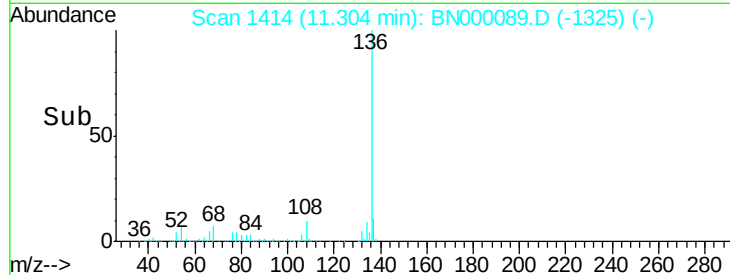
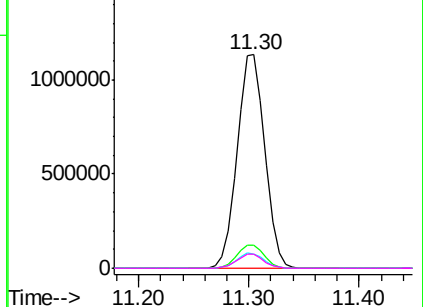


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#23

Nitrobenzene-d5

Concen: 96.524 ng

RT: 9.64 min Scan# 1131

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

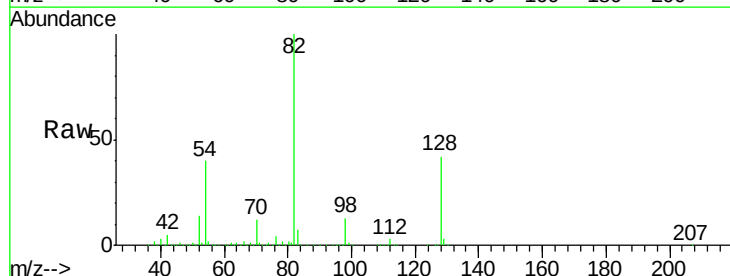
Tgt Ion: 82 Resp: 3238982

Ion Ratio Lower Upper

82 100

128 41.8 29.7 44.5

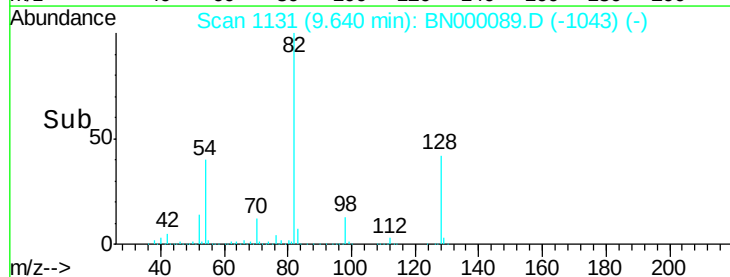
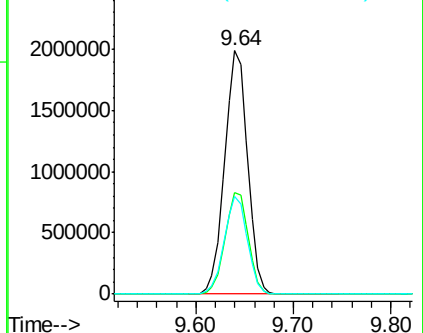
54 40.2 43.1 64.7#

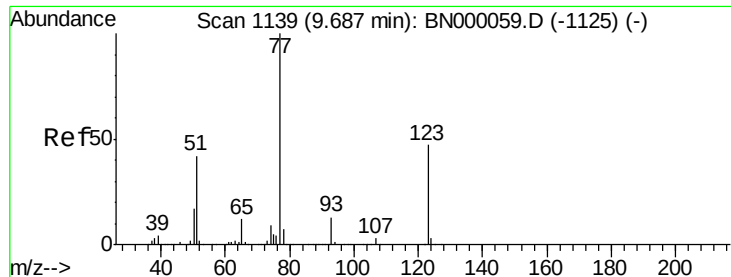


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC

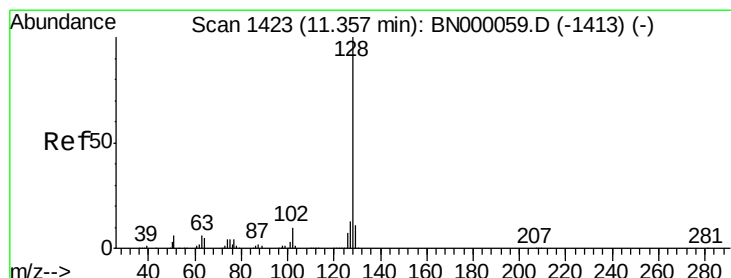
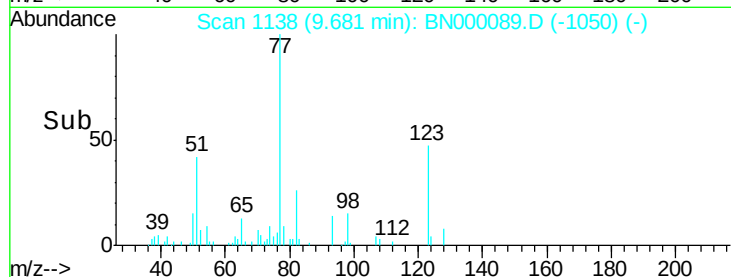
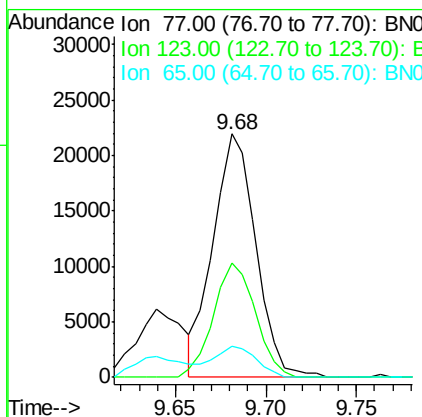
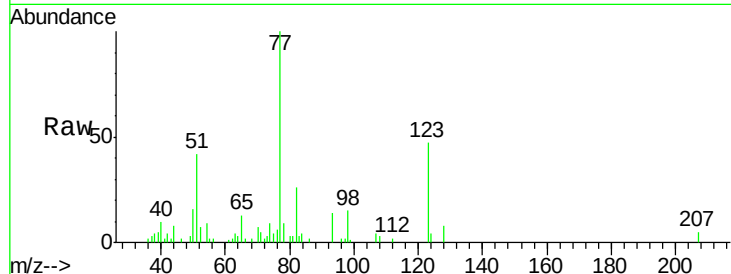




#24
Nitrobenzene
Concen: 0.983 ng
RT: 9.68 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

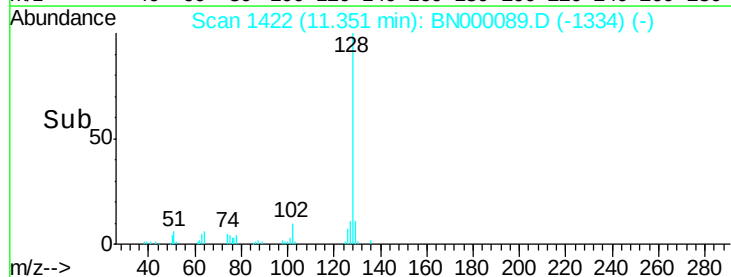
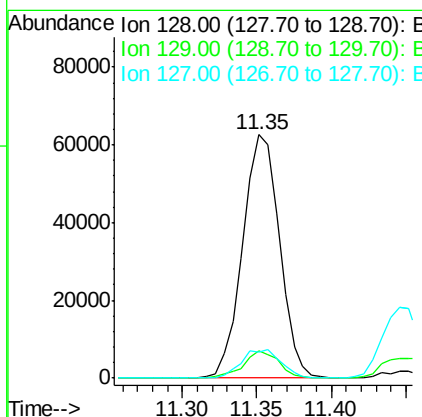
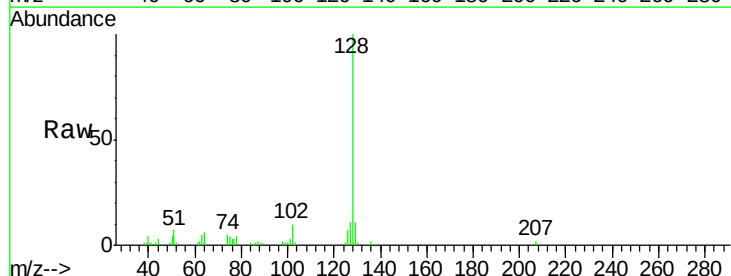
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

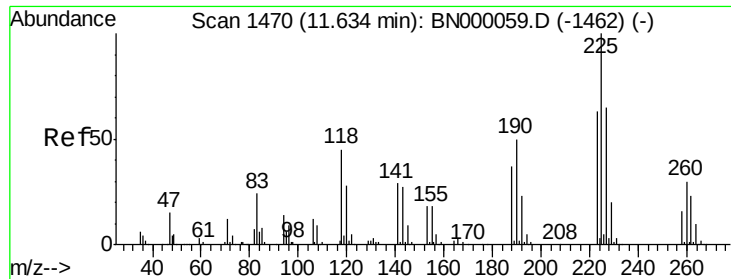
Tot Ion: 77 Resp: 36061
Ion Ratio Lower Upper
77 100
123 46.9 33.0 49.6
65 13.0 13.0 19.6#



#31
Naphthalene
Concen: 0.978 ng
RT: 11.35 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion: 128 Resp: 106995
Ion Ratio Lower Upper
128 100
129 11.5 8.6 12.8
127 10.7 11.6 17.4#





#34

Hexachlorobutadiene

Concen: 0.947 ng

RT: 11.63 min Scan# 1469

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

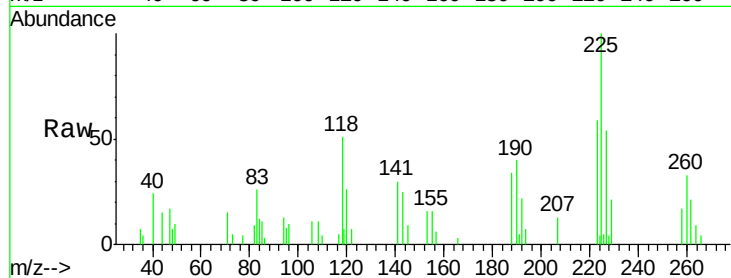
Tot Ion:225 Resp: 15741

Ion Ratio Lower Upper

225 100

223 59.3 49.7 74.5

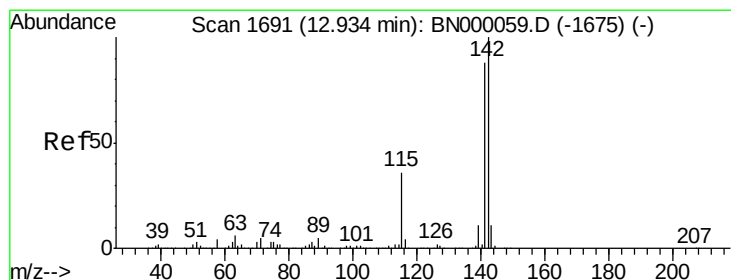
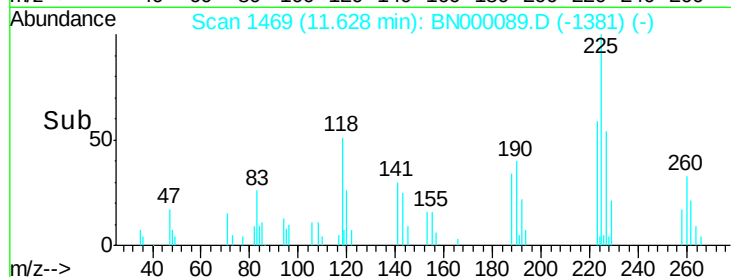
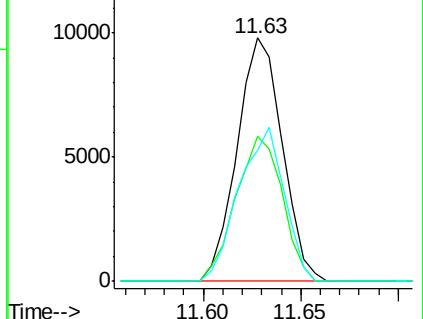
227 53.6 48.1 72.1



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 0.876 ng

RT: 12.93 min Scan# 1690

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

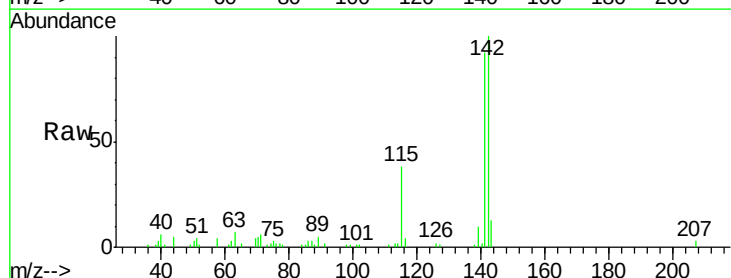
Tgt Ion:142 Resp: 66705

Ion Ratio Lower Upper

142 100

141 92.4 67.1 100.7

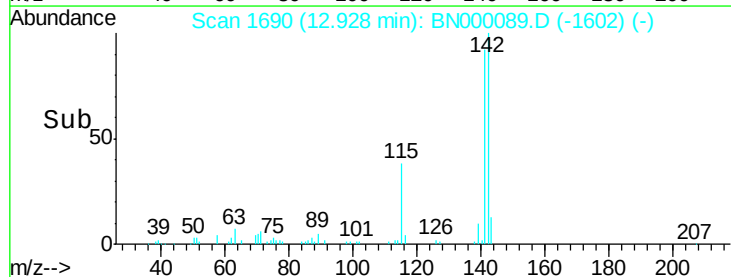
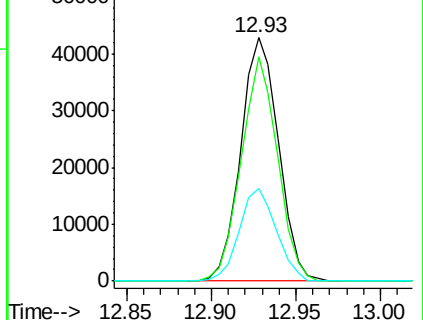
115 37.9 30.7 46.1

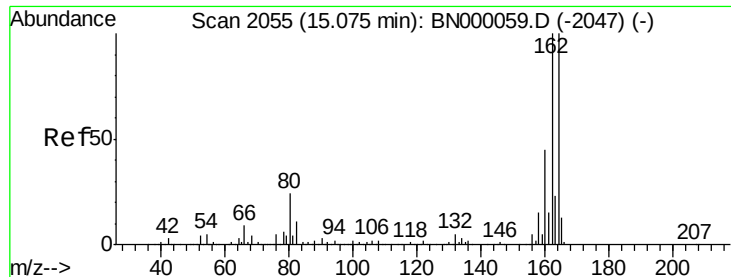


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.07 min Scan# 2054

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

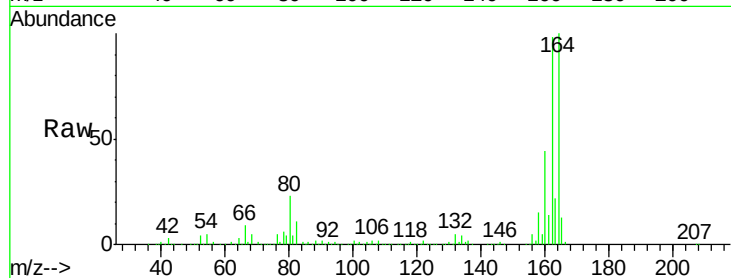
Tot Ion:164 Resp: 1192414

Ion Ratio Lower Upper

164 100

162 98.5 78.8 118.2

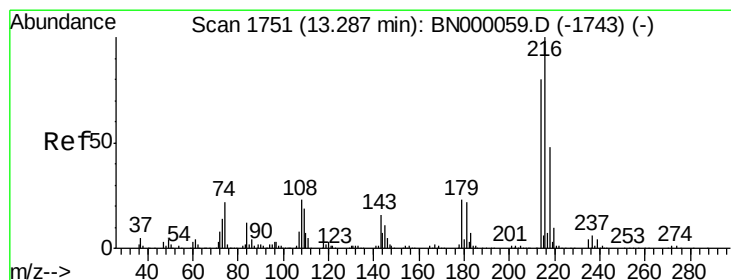
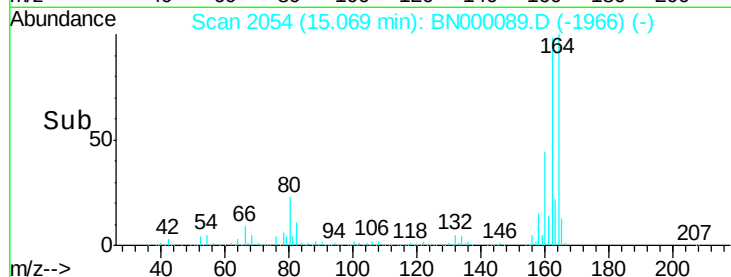
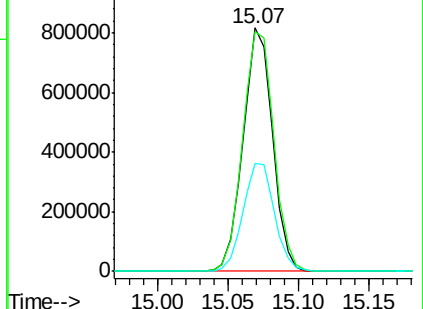
160 44.3 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#39

1,2,4,5-Tetrachlorobenzene

Concen: 0.947 ng

RT: 13.29 min Scan# 1751

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Tgt Ion:216 Resp: 33324

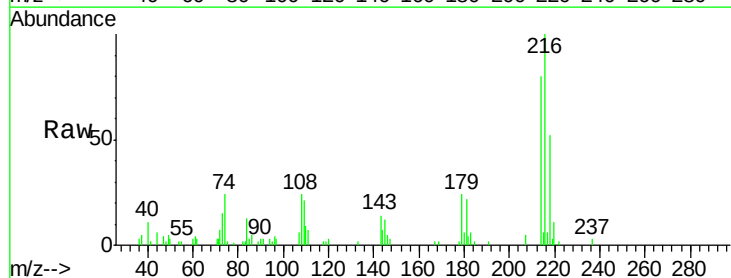
Ion Ratio Lower Upper

216 100

214 78.0 63.0 94.4

179 23.9 17.0 25.6

108 24.9 12.8 19.2#

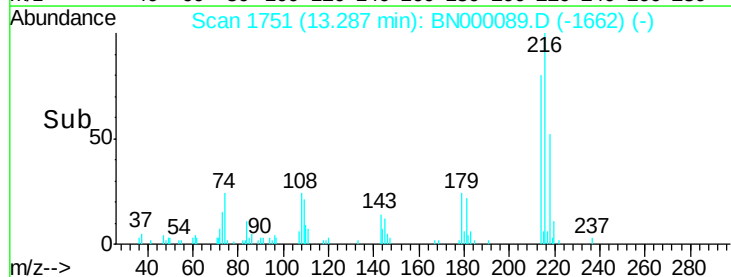
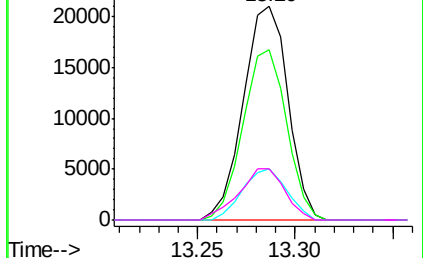


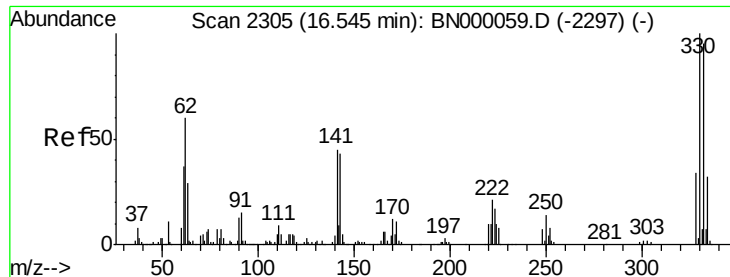
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

2,4,6-Tribromophenol

Concen: 133.361 ng

RT: 16.54 min Scan# 2304

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

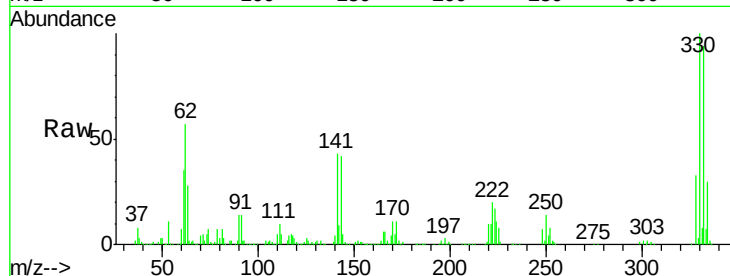
Tot Ion:330 Resp: 1574071

Ion Ratio Lower Upper

330 100

332 95.9 77.0 115.6

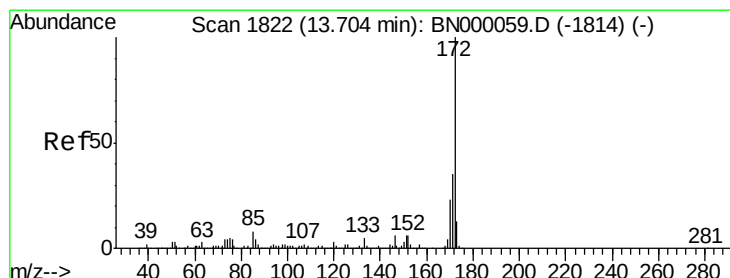
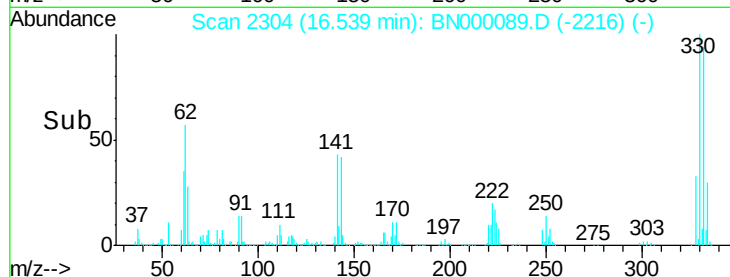
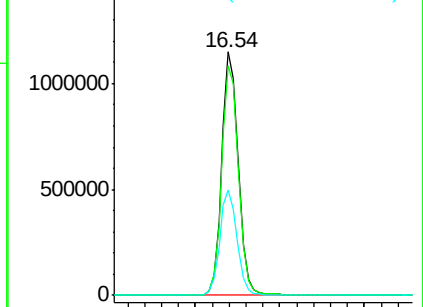
141 45.5 25.2 37.8#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 96.768 ng

RT: 13.70 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

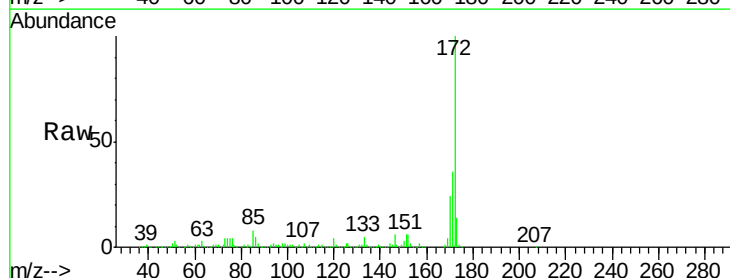
Tgt Ion:172 Resp: 8186884

Ion Ratio Lower Upper

172 100

171 36.4 30.0 45.0

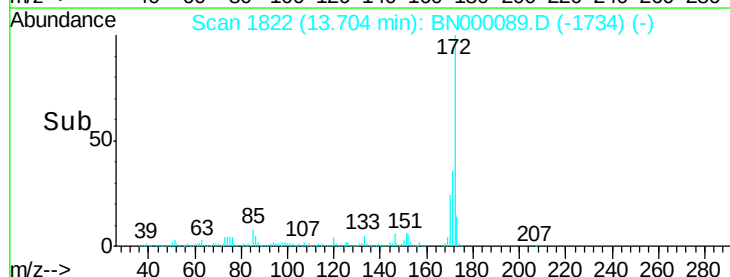
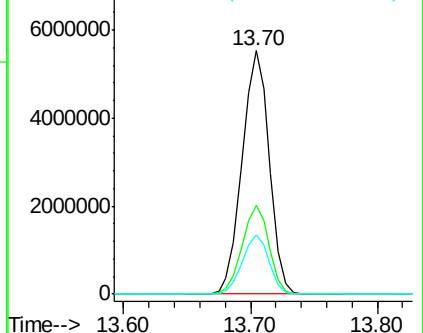
170 24.5 19.5 29.3

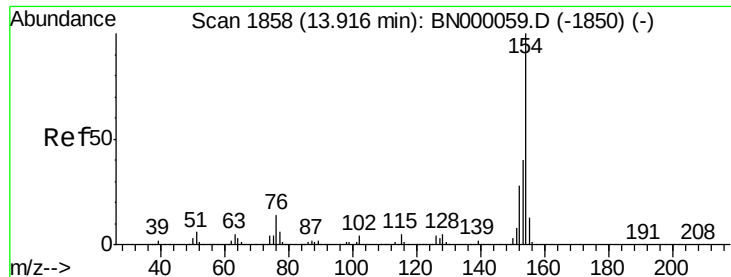


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 1.092 ng

RT: 13.92 min Scan# 1858

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

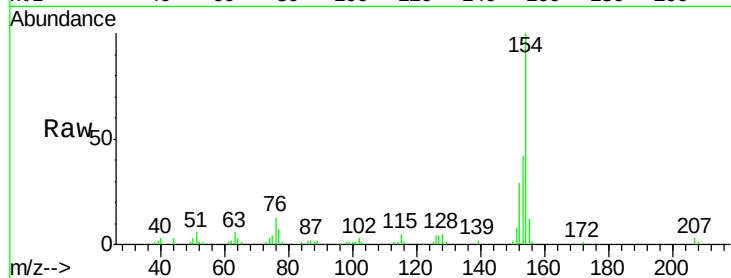
Tot Ion:154 Resp: 114637

Ion Ratio Lower Upper

154 100

153 41.9 19.8 59.8

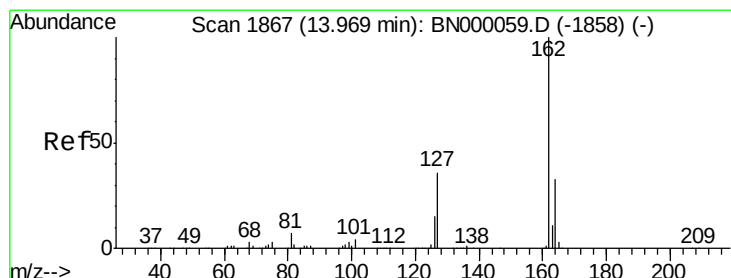
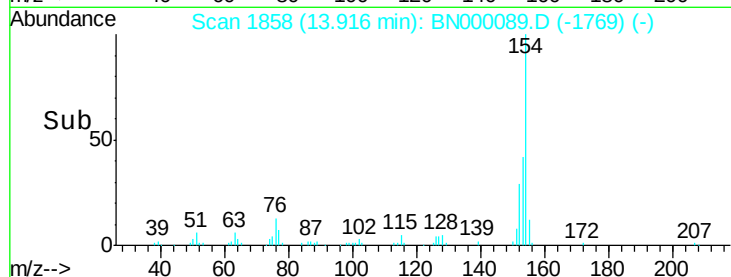
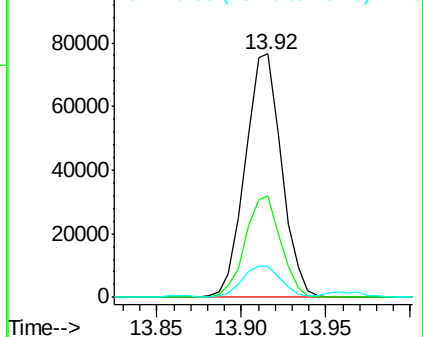
76 12.7 0.0 31.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC



#46

2-Chloronaphthalene

Concen: 0.942 ng

RT: 13.96 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

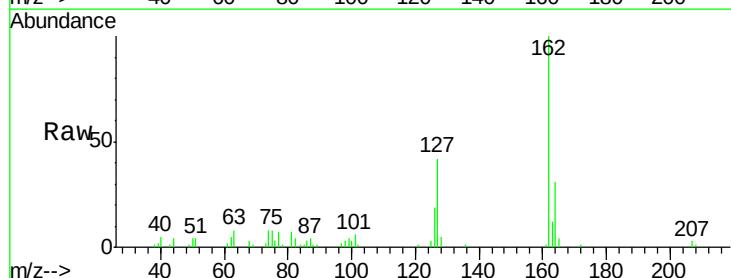
Tgt Ion:162 Resp: 74229

Ion Ratio Lower Upper

162 100

127 41.7 30.7 46.1

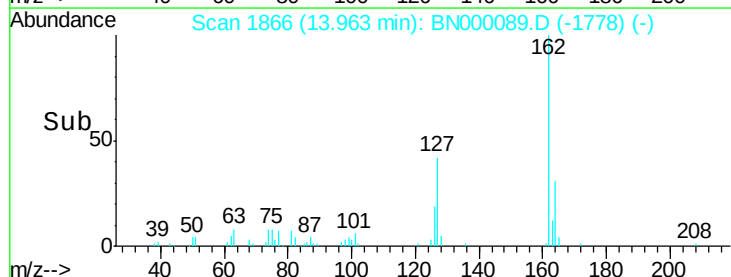
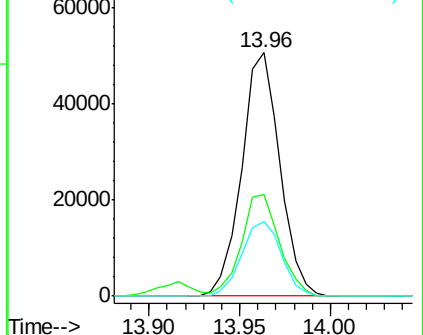
164 30.8 26.0 39.0

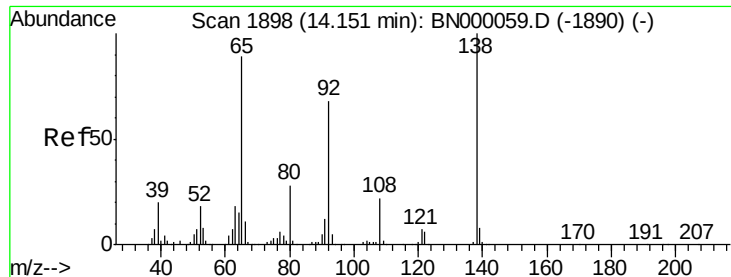


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

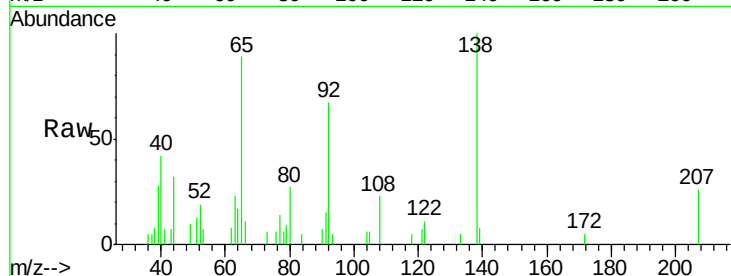




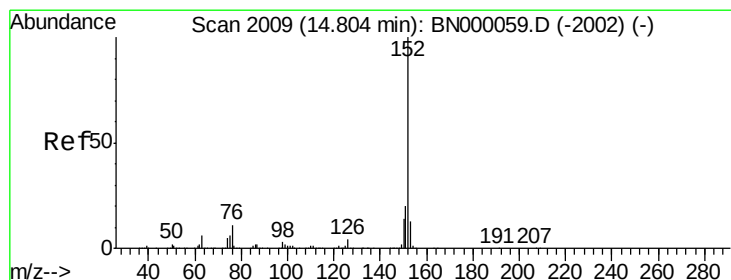
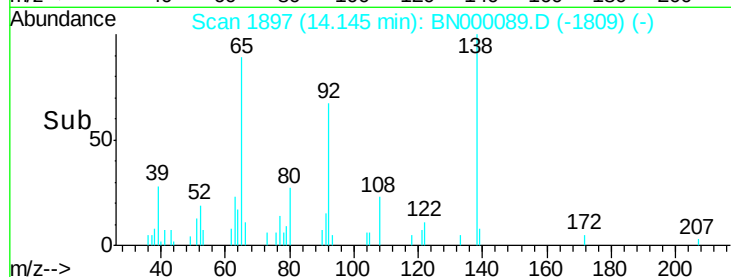
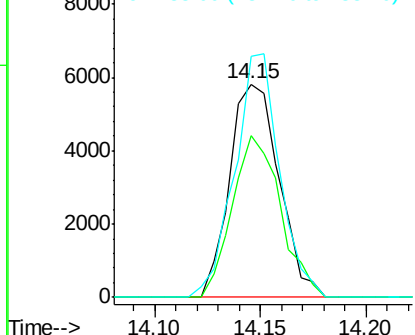
#47
2-Nitroaniline
Concen: 5.246 ng
RT: 14.15 min Scan# 1897
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion: 65 Resp: 9449
Ion Ratio Lower Upper
65 100
92 75.7 54.6 82.0
138 112.7 72.9 109.3#

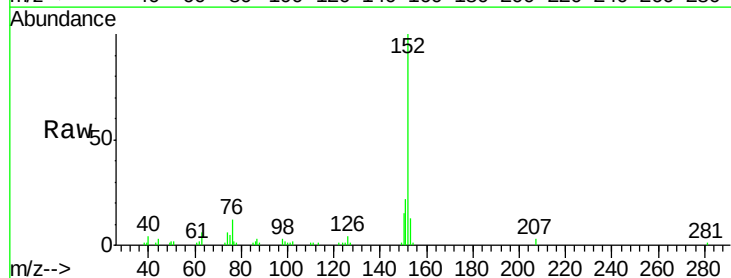


Abundance Ion 65.00 (64.70 to 65.70): BNC
Ion 92.00 (91.70 to 92.70): BNC
Ion 138.00 (137.70 to 138.70): BNC

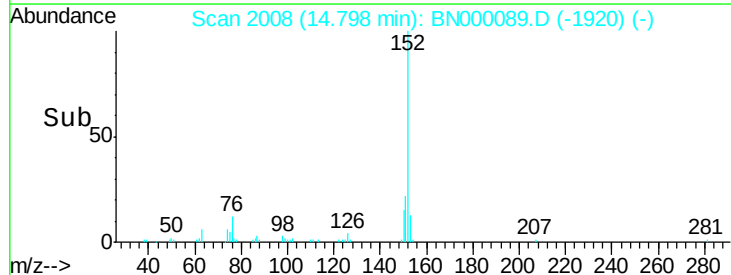
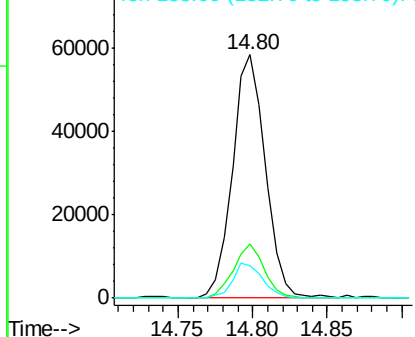


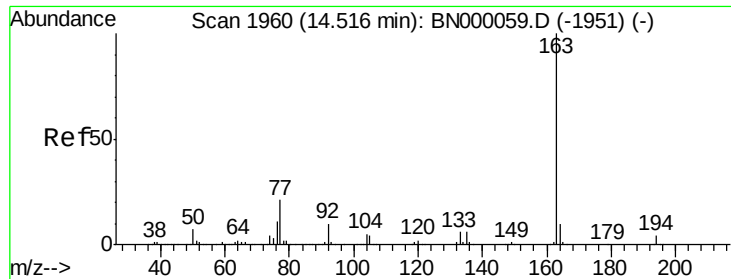
#48
Acenaphthylene
Concen: 0.707 ng
RT: 14.80 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion: 152 Resp: 89792
Ion Ratio Lower Upper
152 100
151 22.1 17.2 25.8
153 13.3 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): BNC
Ion 151.00 (150.70 to 151.70): BNC
Ion 153.00 (152.70 to 153.70): BNC





#49

Dimethylphthalate

Concen: 0.756 ng

RT: 14.50 min Scan# 1958

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

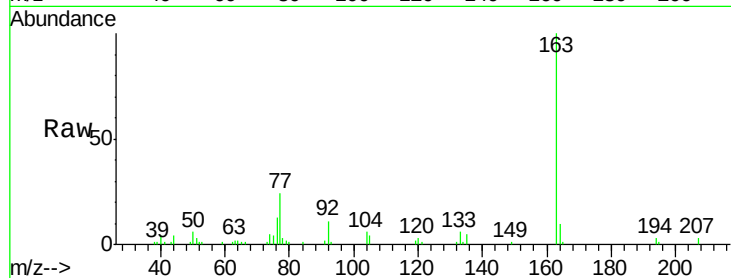
Tot Ion:163 Resp: 75393

Ion Ratio Lower Upper

163 100

194 3.4 3.4 5.2

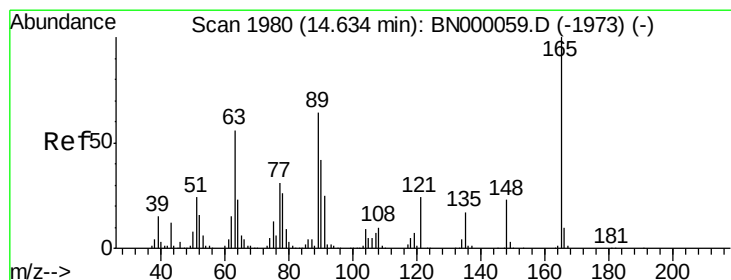
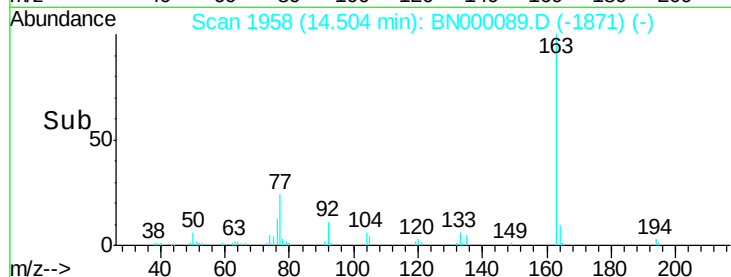
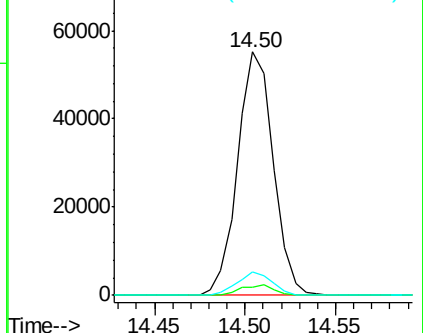
164 9.6 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 0.364 ng

RT: 14.63 min Scan# 1979

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

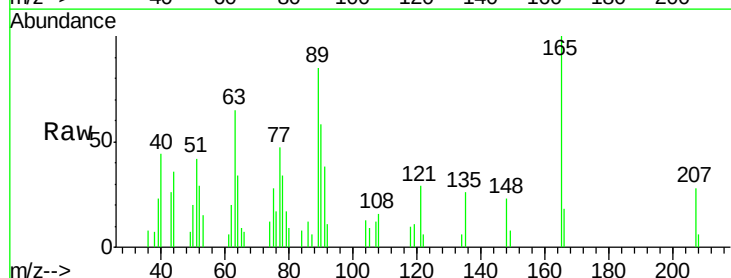
Tgt Ion:165 Resp: 7493

Ion Ratio Lower Upper

165 100

63 64.5 52.7 79.1

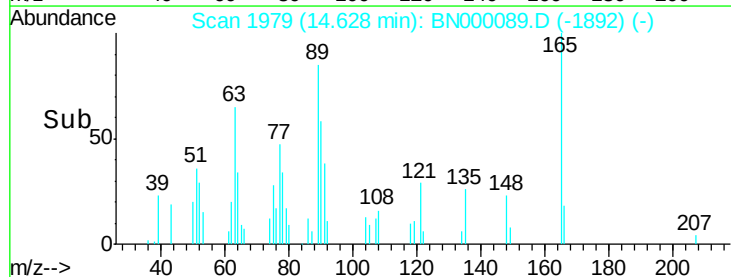
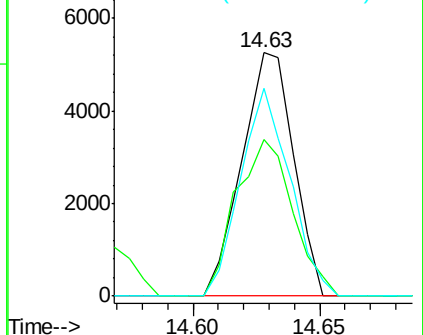
89 85.4 49.2 73.8#

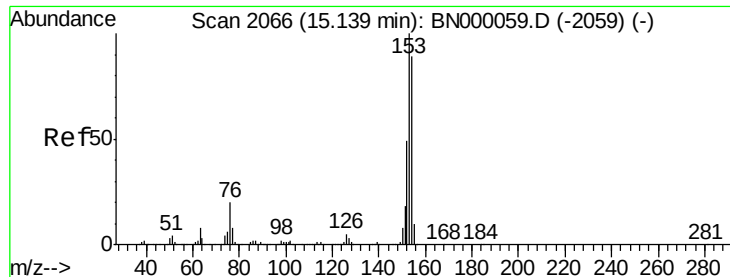


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 89.00 (88.70 to 89.70): BNC





#51

Acenaphthene

Concen: 0.923 ng

RT: 15.13 min Scan# 2065

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

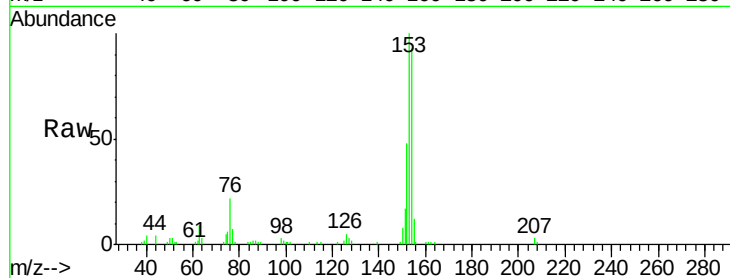
Tot Ion:154 Resp: 76274

Ion Ratio Lower Upper

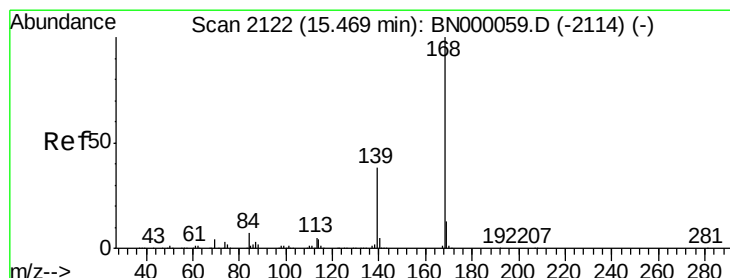
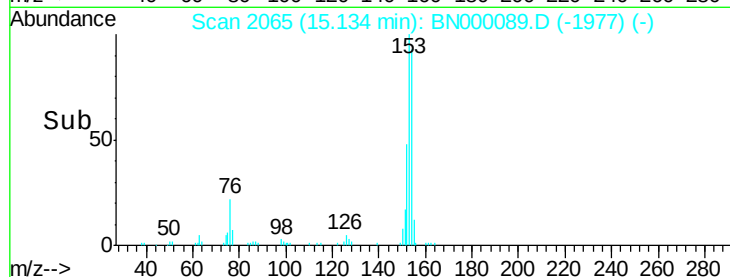
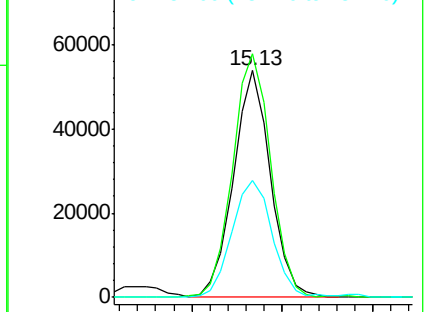
154 100

153 107.3 90.4 135.6

152 51.5 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 0.963 ng

RT: 15.46 min Scan# 2121

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

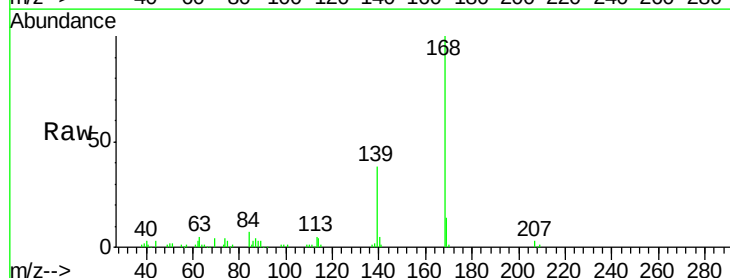
Tgt Ion:168 Resp: 112744

Ion Ratio Lower Upper

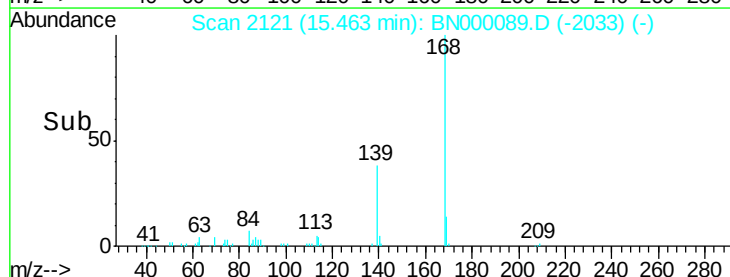
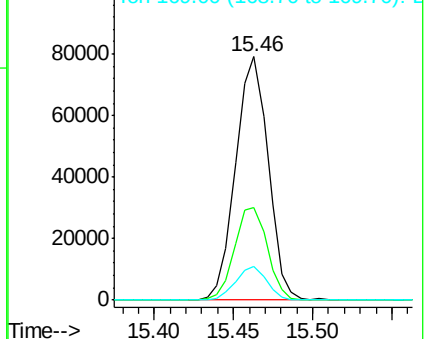
168 100

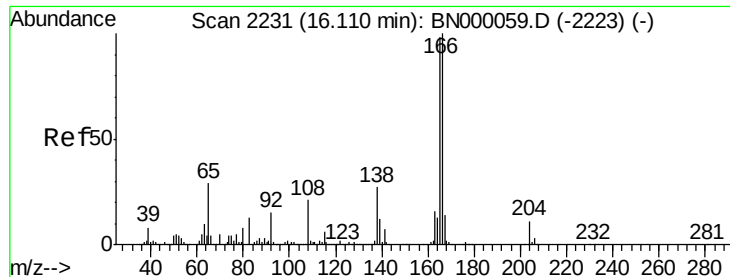
139 38.2 28.6 43.0

169 13.8 11.2 16.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 0.887 ng

RT: 16.10 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

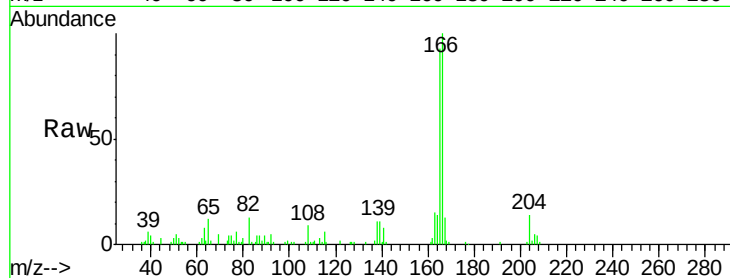
Tot Ion:166 Resp: 84809

Ion Ratio Lower Upper

166 100

165 92.6 80.6 121.0

167 13.0 10.4 15.6

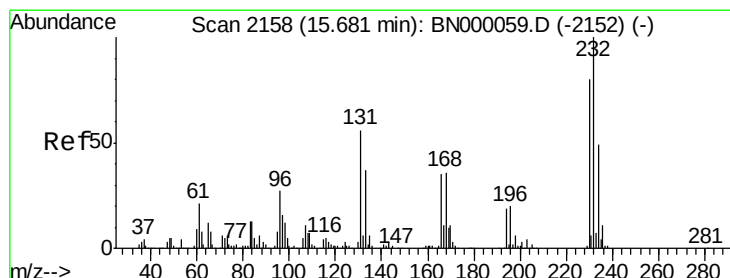
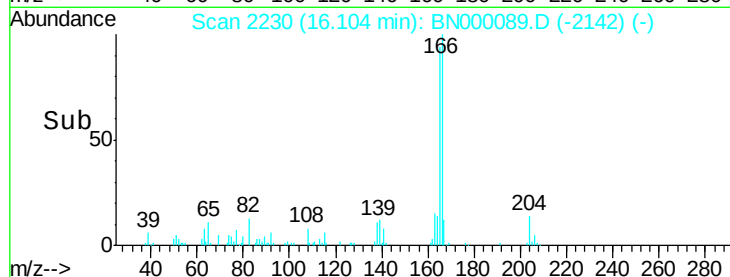
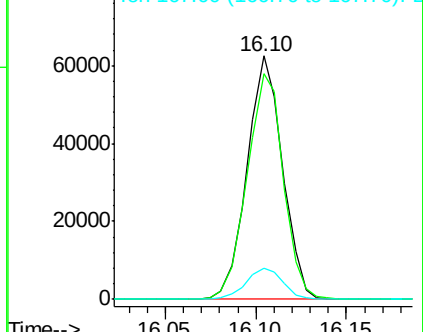


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 0.453 ng

RT: 15.67 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Tgt Ion:232 Resp: 9063

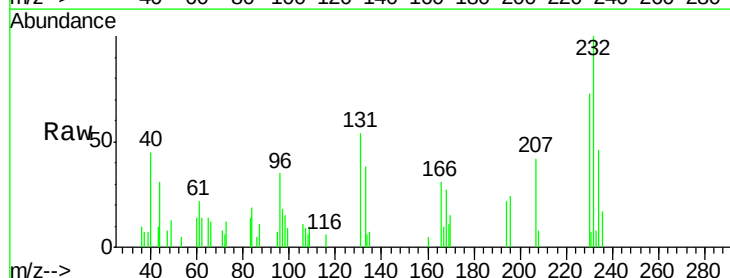
Ion Ratio Lower Upper

232 100

131 59.1 33.5 50.3#

130 0.0 2.2 3.2#

166 35.6 24.8 37.2



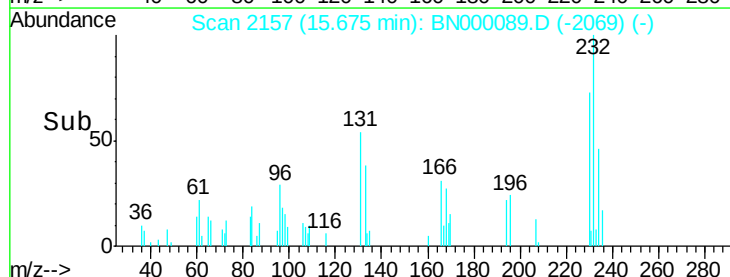
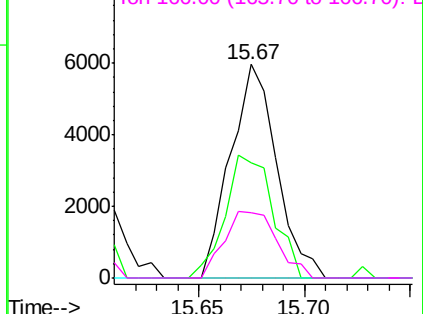
Abundance

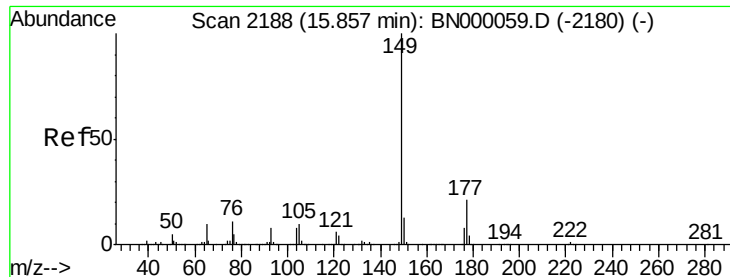
Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

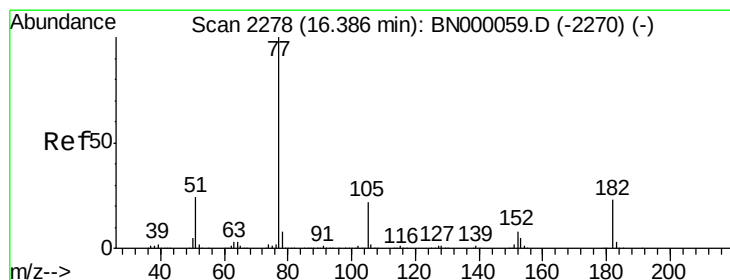
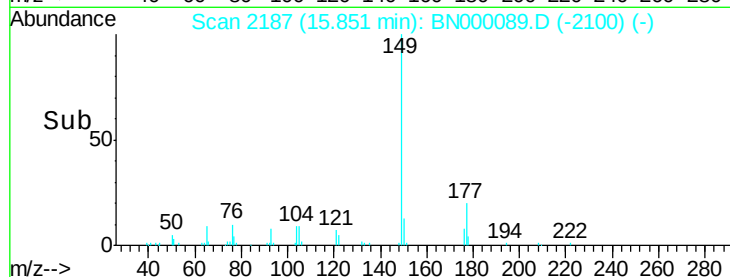
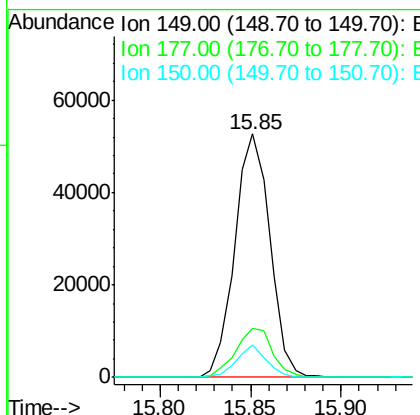
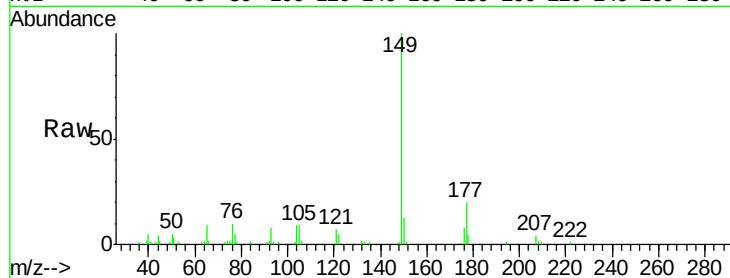




#59
Diethylphthalate
Concen: 0.701 ng
RT: 15.85 min Scan# 2187
Delta R.T. -0.02 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

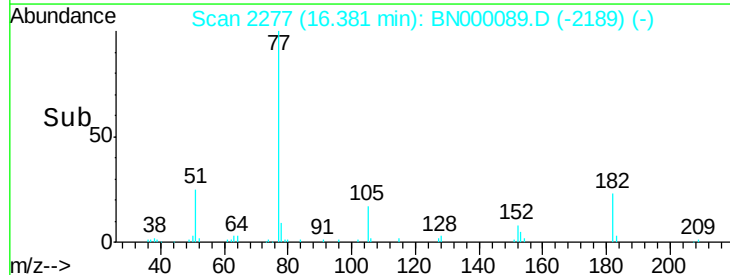
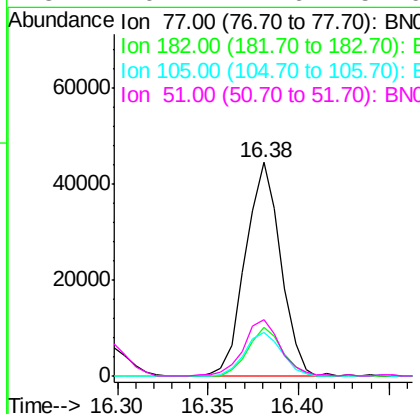
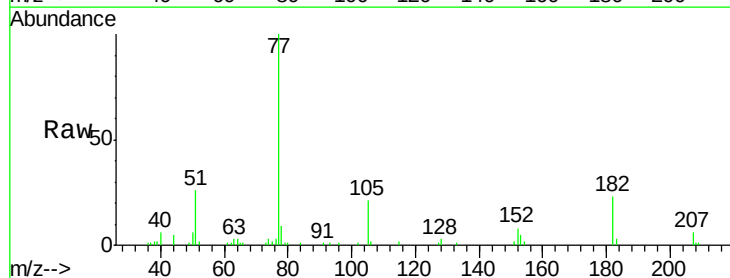
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

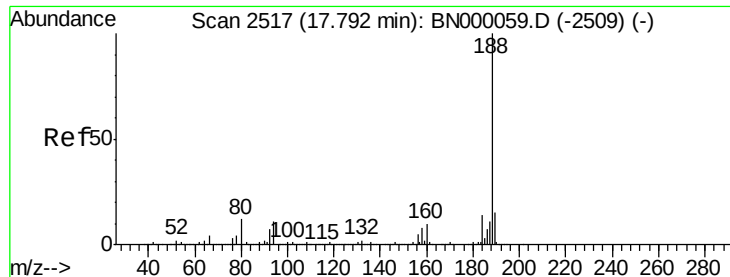
Tot Ion:149 Resp: 70975
Ion Ratio Lower Upper
149 100
177 20.1 18.5 27.7
150 13.1 10.2 15.2



#62
Azobenzene
Concen: 0.597 ng
RT: 16.38 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion: 77 Resp: 60155
Ion Ratio Lower Upper
77 100
182 22.6 7.4 47.4
105 20.7 0.3 40.3
51 26.2 11.6 51.6

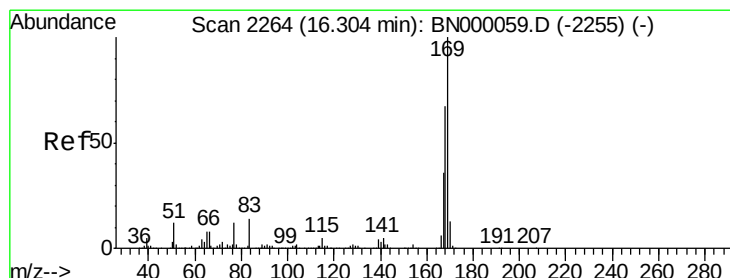
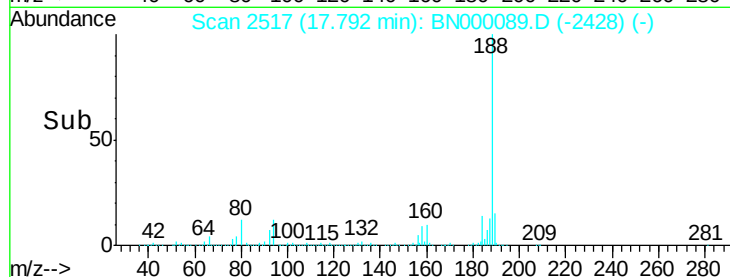
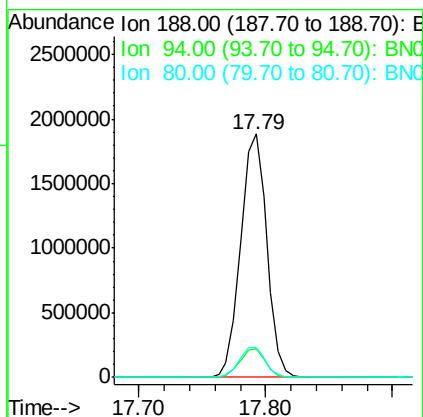
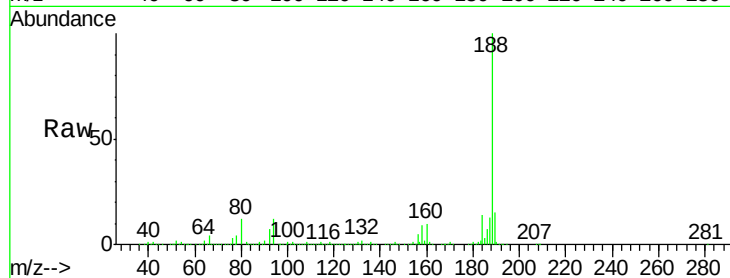




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.79 min Scan# 2517
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

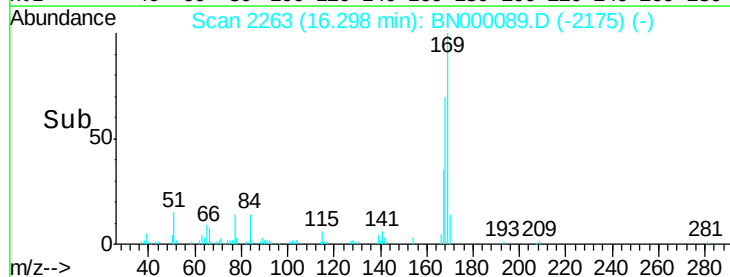
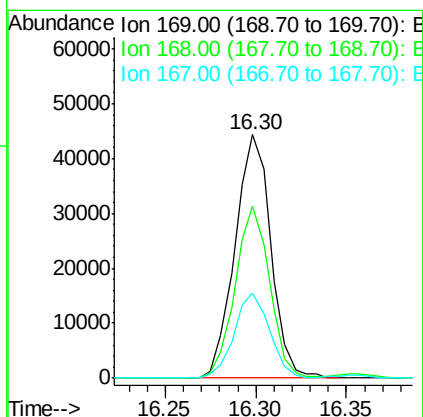
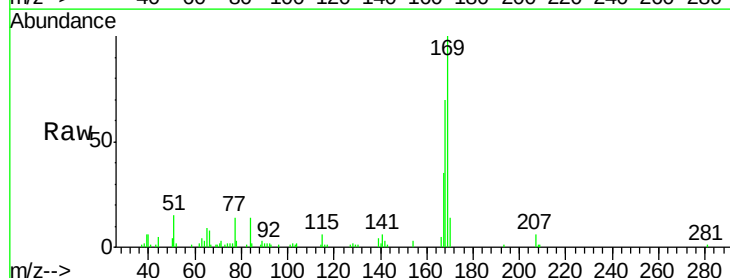
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

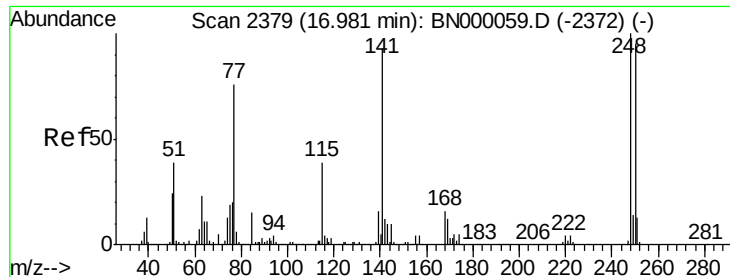
Tot Ion:188 Resp: 2688802
Ion Ratio Lower Upper
188 100
94 11.5 6.9 10.3#
80 12.1 7.7 11.5#



#65
n-Nitrosodiphenylamine
Concen: 0.696 ng
RT: 16.30 min Scan# 2263
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion:169 Resp: 60897
Ion Ratio Lower Upper
169 100
168 70.4 55.7 83.5
167 34.9 30.1 45.1

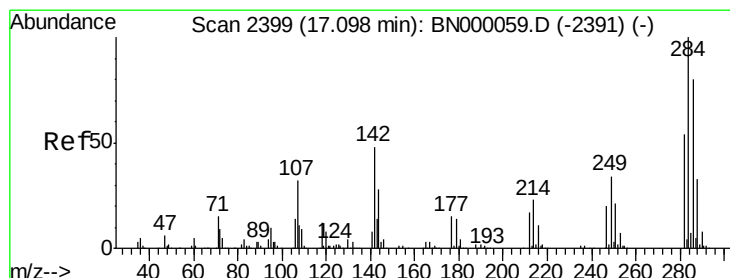
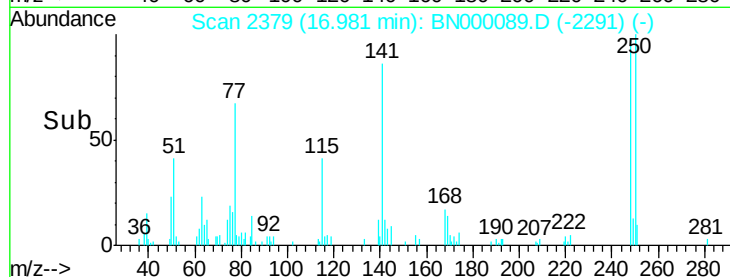
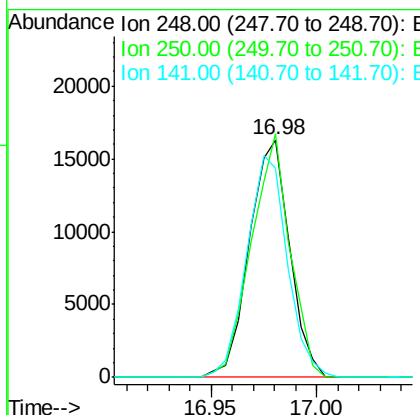
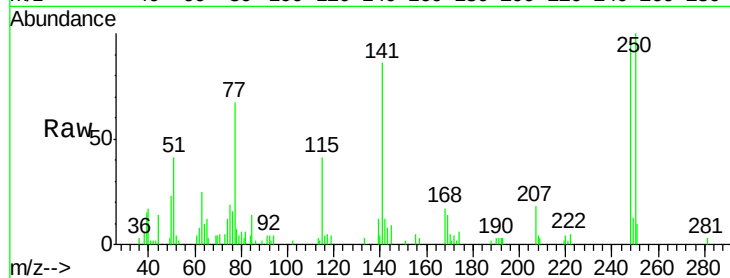




#66
4-Bromophenyl-phenylether
Concen: 0.847 ng
RT: 16.98 min Scan# 2379
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

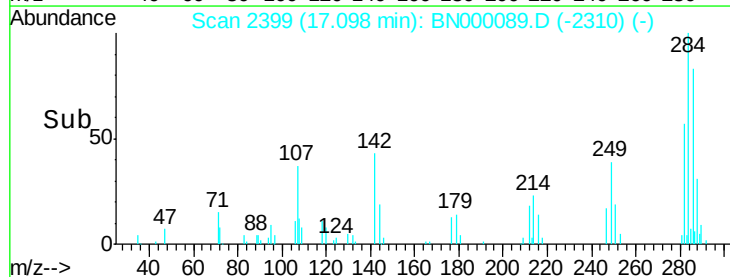
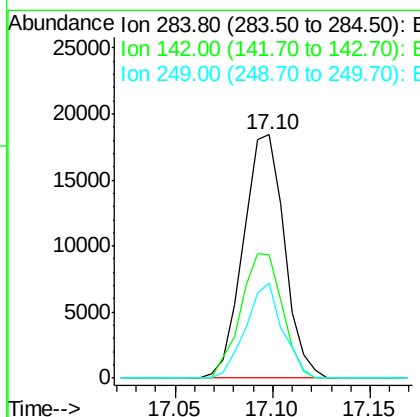
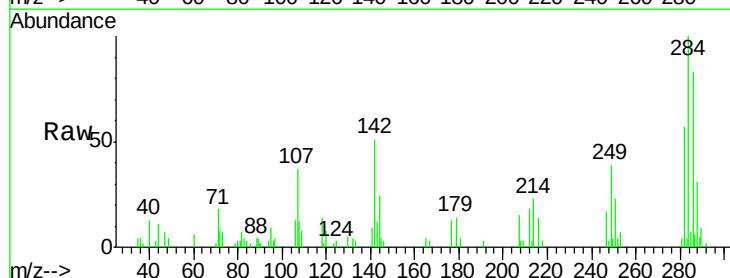
Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

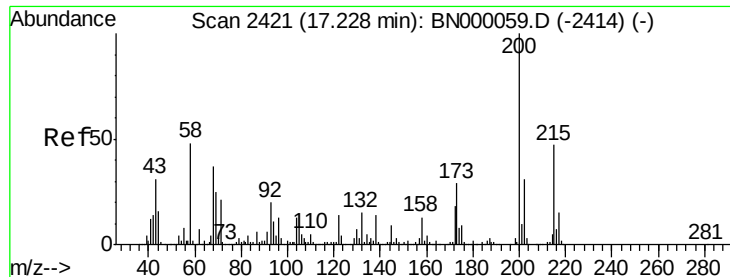
Tot Ion:248 Resp: 21651
Ion Ratio Lower Upper
248 100
250 102.5 77.1 115.7
141 88.1 50.8 76.2#



#67
Hexachlorobenzene
Concen: 0.901 ng
RT: 17.10 min Scan# 2399
Delta R.T. -0.01 min
Lab File: BN000089.D
Acq: 15 Feb 2018 10:40

Tgt Ion:284 Resp: 26911
Ion Ratio Lower Upper
284 100
142 50.7 26.8 40.2#
249 39.0 26.3 39.5

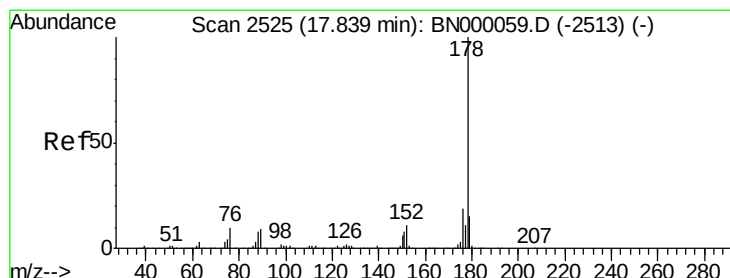
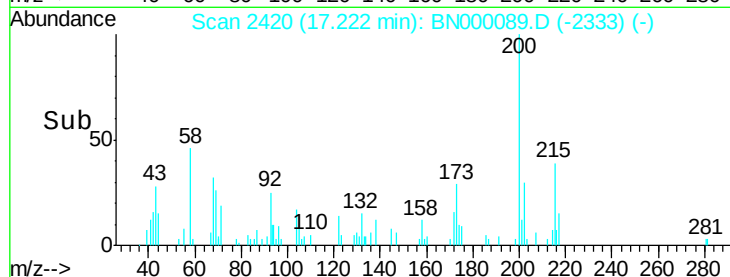
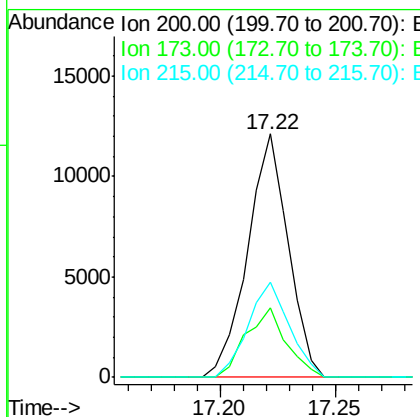
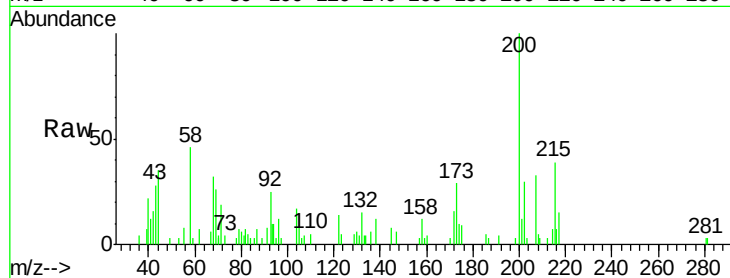




#68
 Atrazine
 Concen: 0.520 ng
 RT: 17.22 min Scan# 2420
 Delta R.T. -0.02 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

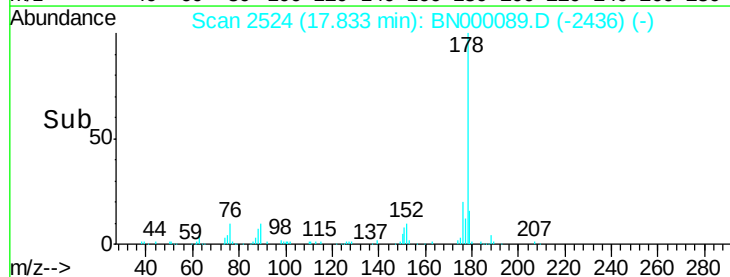
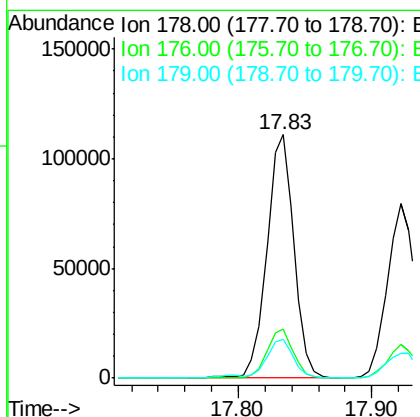
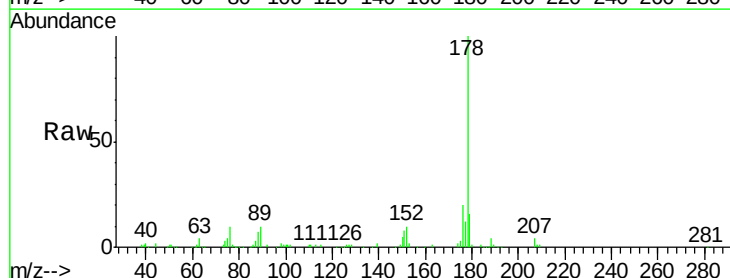
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

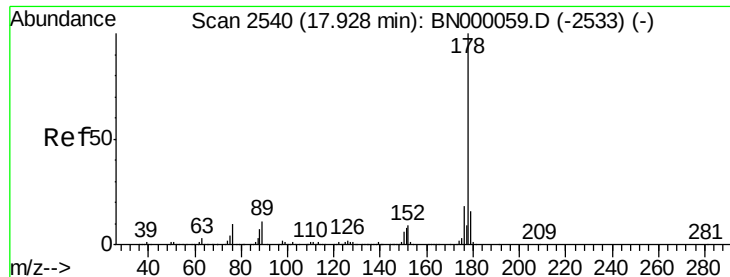
Tot Ion	Ratio	Lower	Upper
200	100		
173	28.8	5.2	45.2
215	39.2	30.4	70.4



#70
 Phenanthrene
 Concen: 0.984 ng
 RT: 17.83 min Scan# 2524
 Delta R.T. -0.01 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	15.8	12.5	18.7





#71

Anthracene

Concen: 0.784 ng

RT: 17.92 min Scan# 2539

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

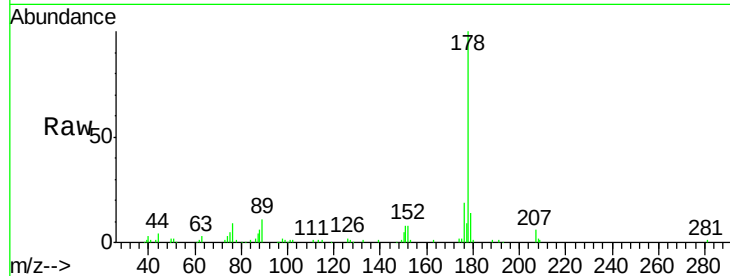
Tot Ion:178 Resp: 120641

Ion Ratio Lower Upper

178 100

176 19.4 16.0 24.0

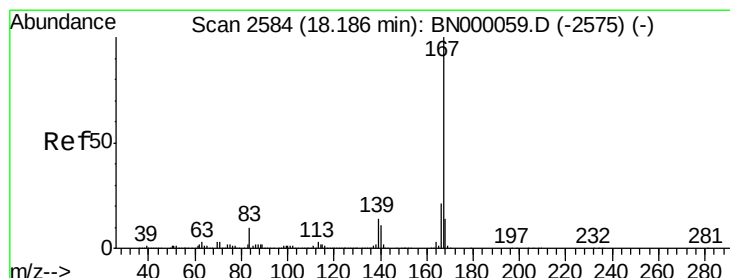
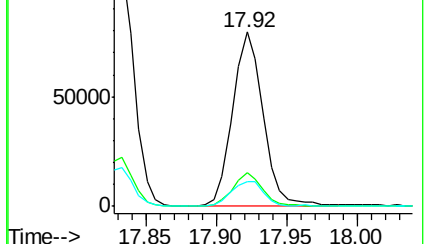
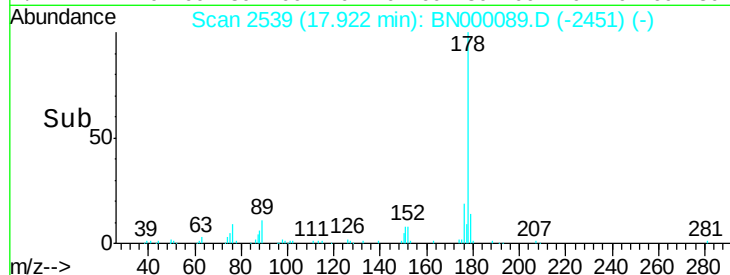
179 14.2 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 0.703 ng

RT: 18.18 min Scan# 2583

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

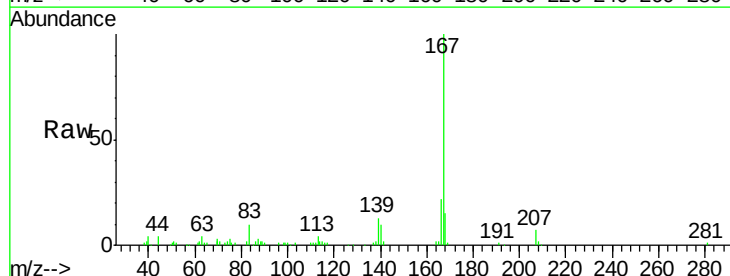
Tgt Ion:167 Resp: 108883

Ion Ratio Lower Upper

167 100

166 21.7 18.2 27.4

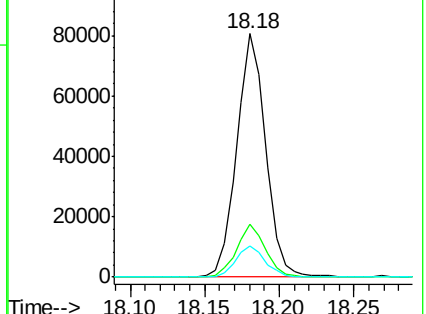
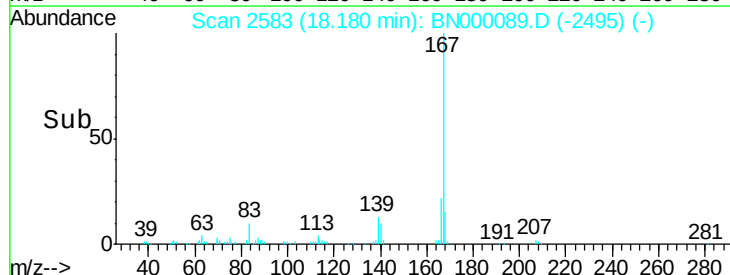
139 12.6 9.4 14.2

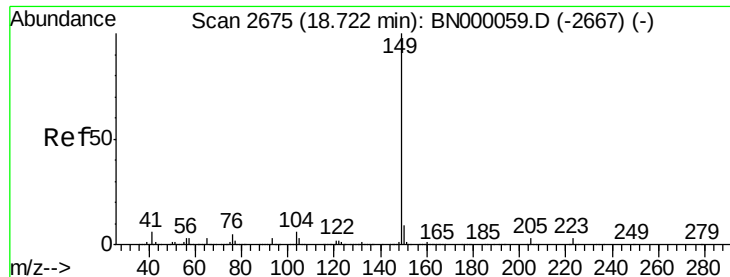


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 0.463 ng

RT: 18.72 min Scan# 2674

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

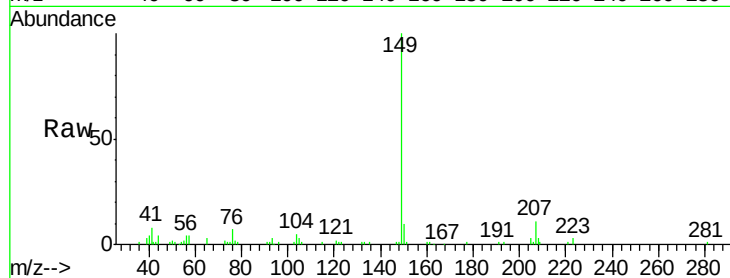
Tot Ion:149 Resp: 79195

Ion Ratio Lower Upper

149 100

150 9.9 7.8 11.6

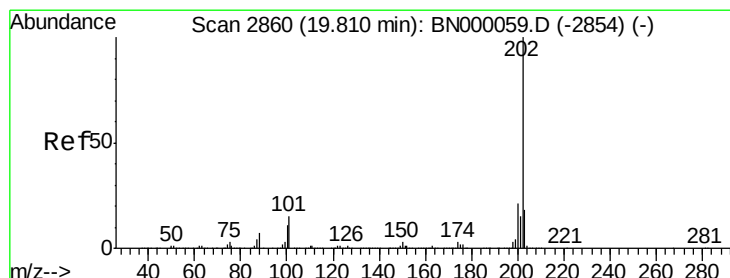
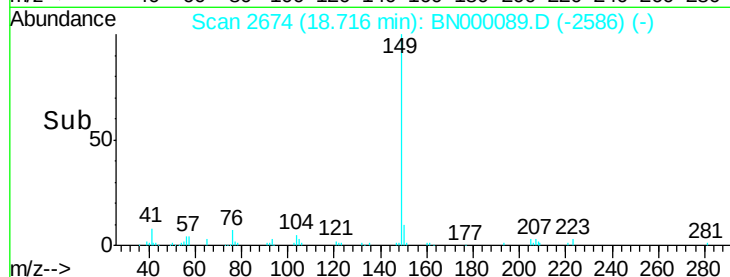
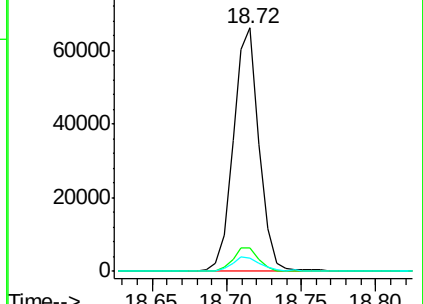
104 5.3 3.9 5.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 0.762 ng

RT: 19.81 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

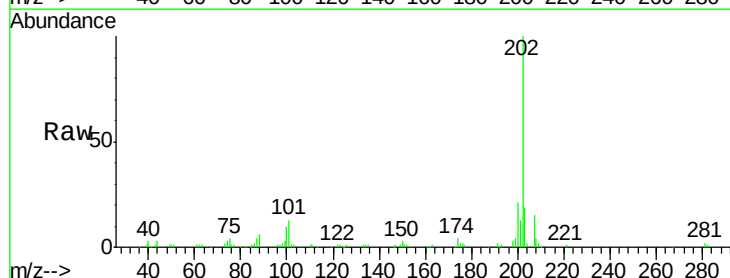
Tgt Ion:202 Resp: 126969

Ion Ratio Lower Upper

202 100

101 13.3 0.0 28.9

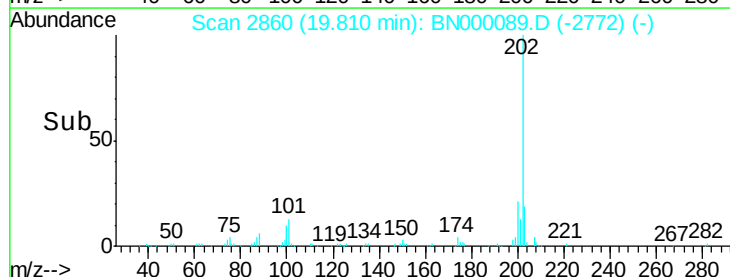
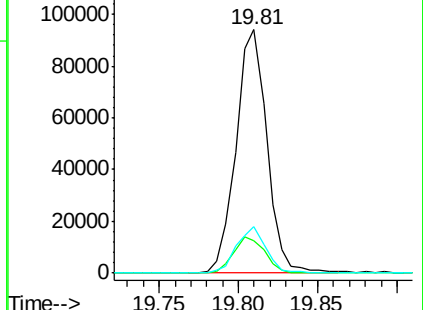
203 18.9 0.0 37.5

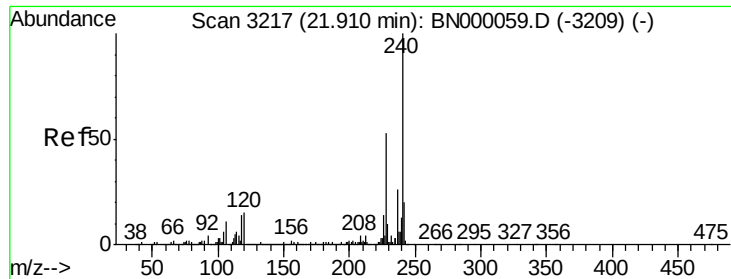


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.90 min Scan# 3216

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

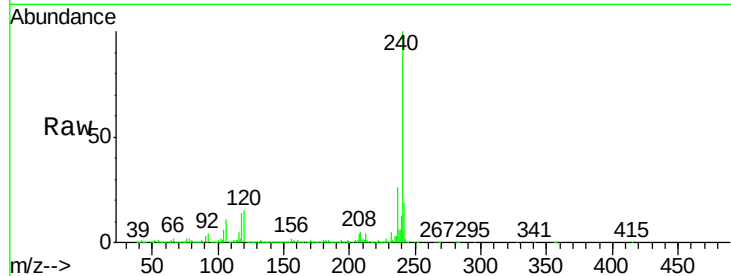
Tot Ion:240 Resp: 2788131

Ion Ratio Lower Upper

240 100

120 15.0 6.8 10.2#

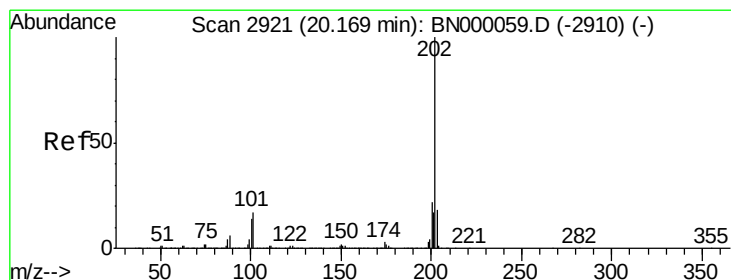
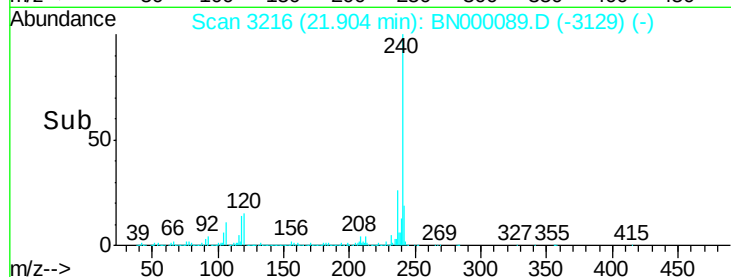
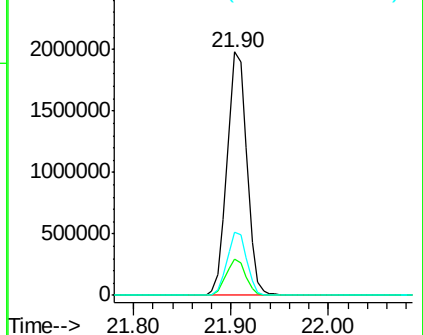
236 26.0 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 0.796 ng

RT: 20.17 min Scan# 2921

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

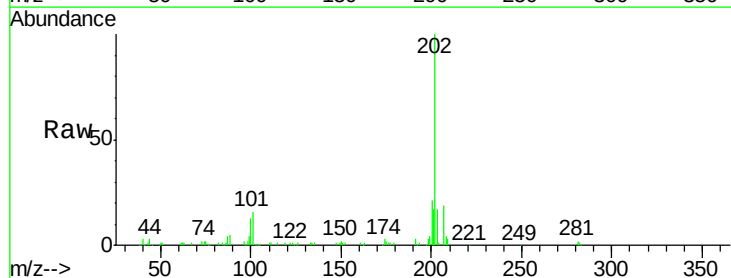
Tgt Ion:202 Resp: 141081

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

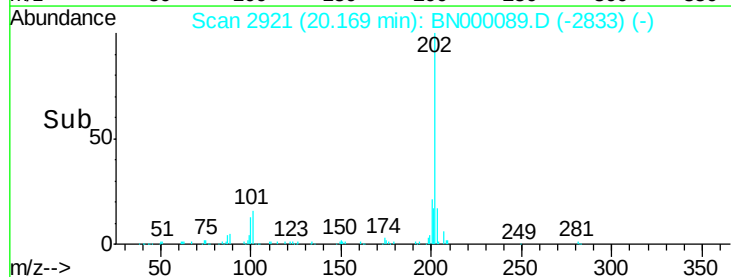
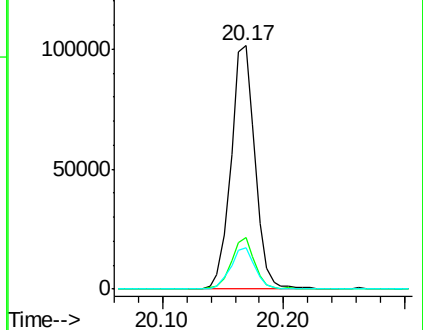
203 17.2 13.9 20.9

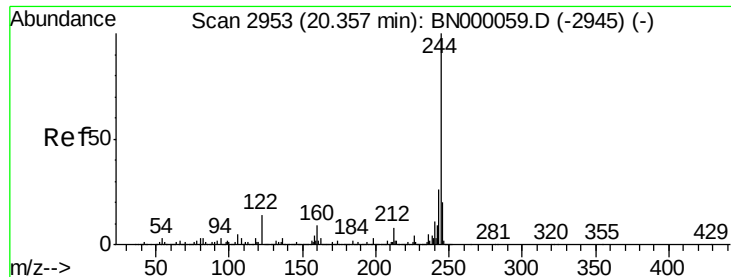


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 96.753 ng

RT: 20.35 min Scan# 2952

Delta R.T. -0.01 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

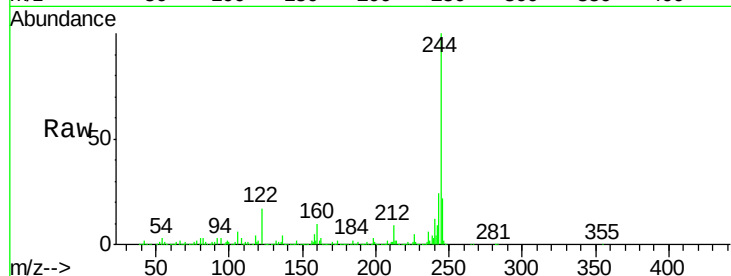
Tot Ion:244 Resp: 9990560

Ion Ratio Lower Upper

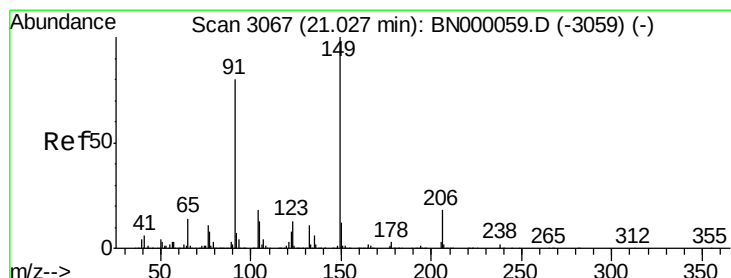
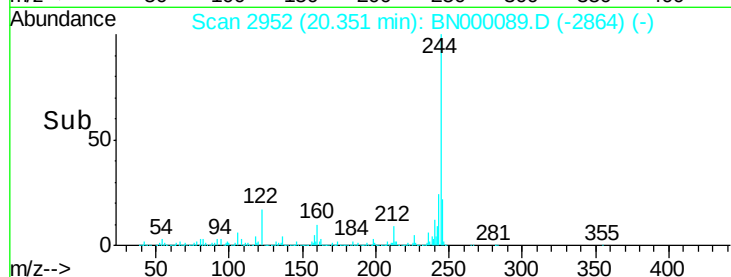
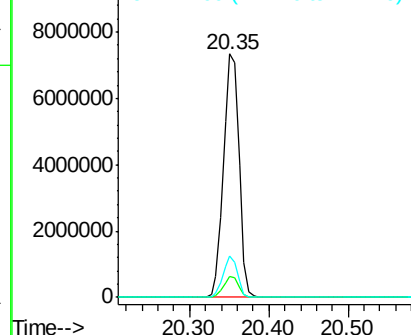
244 100

212 8.7 5.8 8.8

122 17.2 7.0 10.4#



Abundance Ion 244.00 (243.70 to 244.70): E
1e+07 Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 5.668 ng

RT: 21.02 min Scan# 3066

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

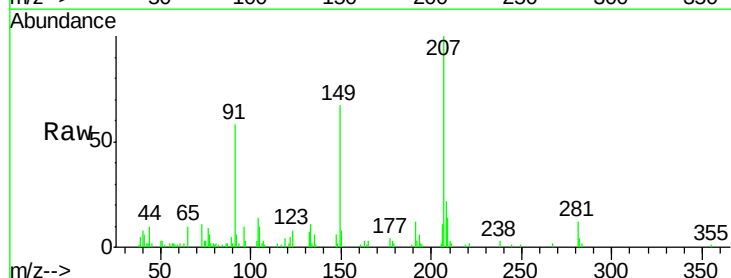
Tgt Ion:149 Resp: 27668

Ion Ratio Lower Upper

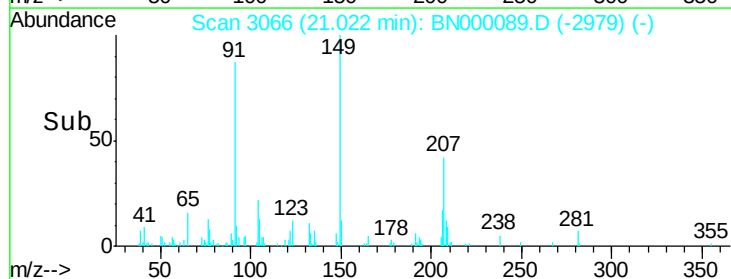
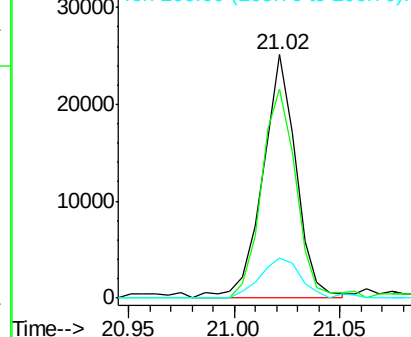
149 100

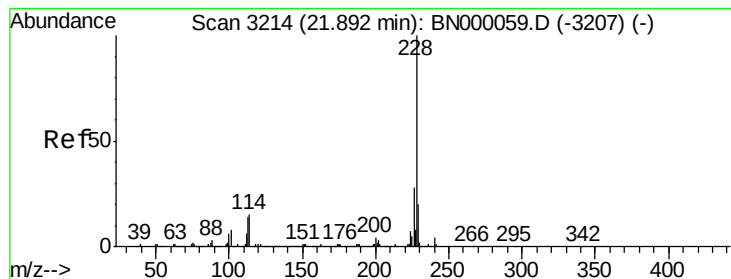
91 85.7 62.2 93.2

206 16.4 18.6 27.8#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BNC
Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 0.881 ng

RT: 21.89 min Scan# 3214

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

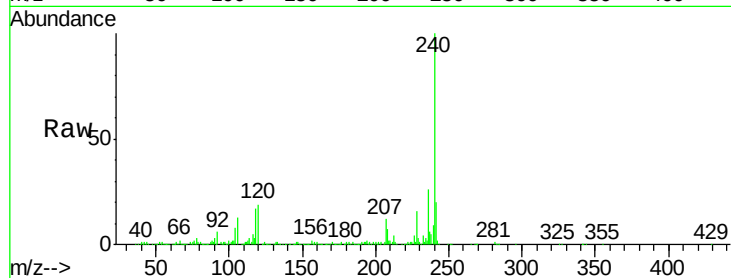
Tot Ion:228 Resp: 150918

Ion Ratio Lower Upper

228 100

226 25.5 22.7 34.1

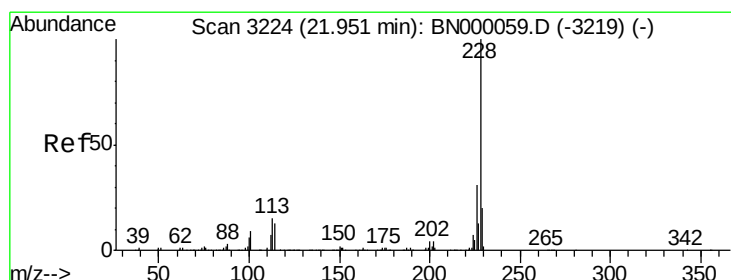
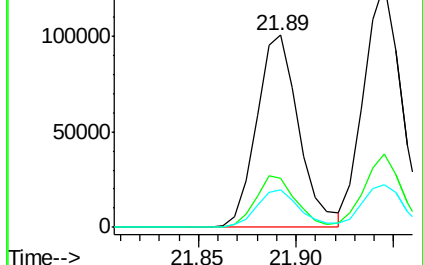
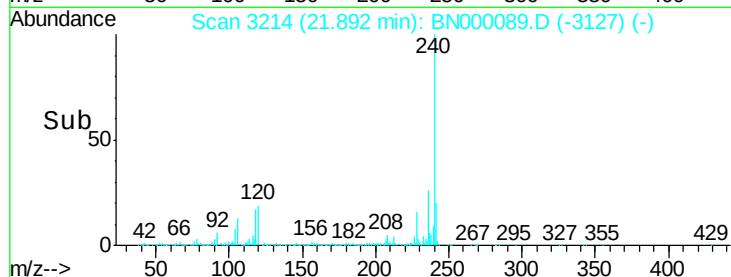
229 19.3 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 1.002 ng

RT: 21.94 min Scan# 3223

Delta R.T. -0.02 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

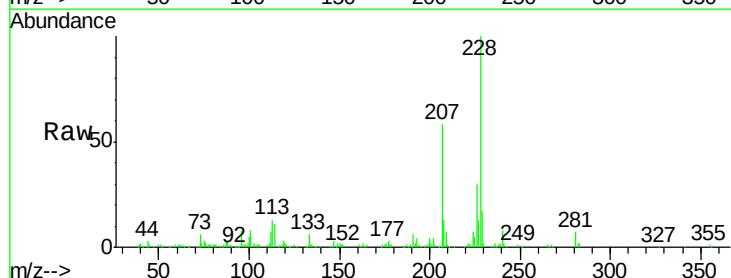
Tgt Ion:228 Resp: 171119

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

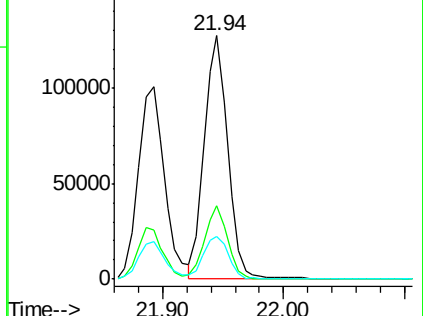
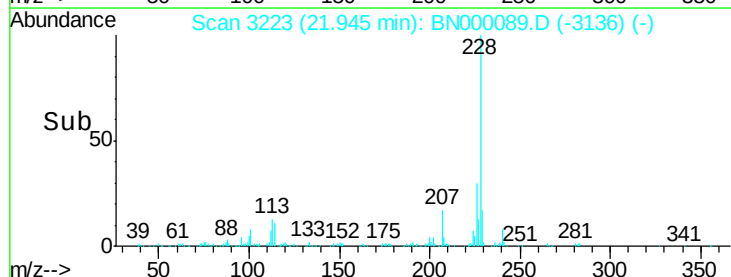
229 17.5 15.0 22.4

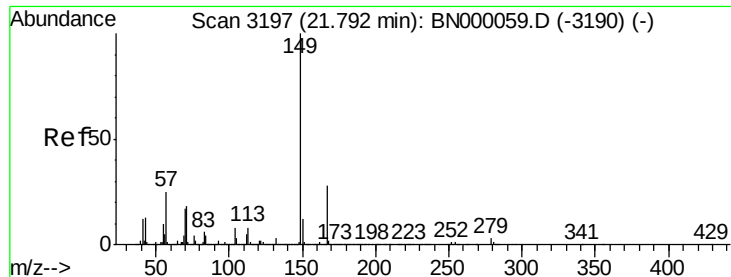


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

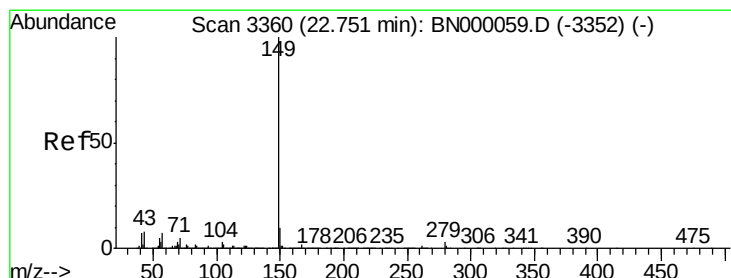
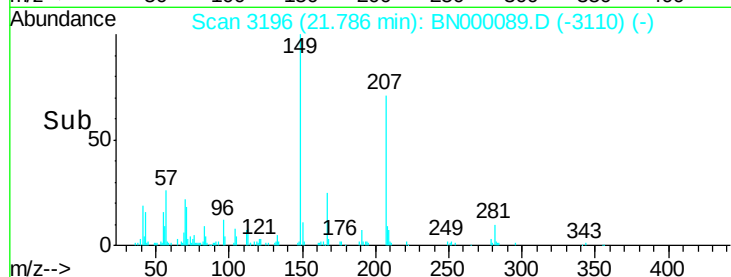
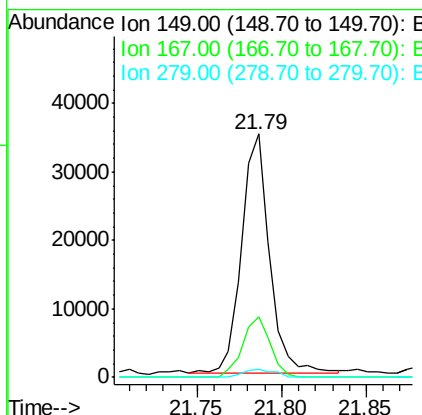
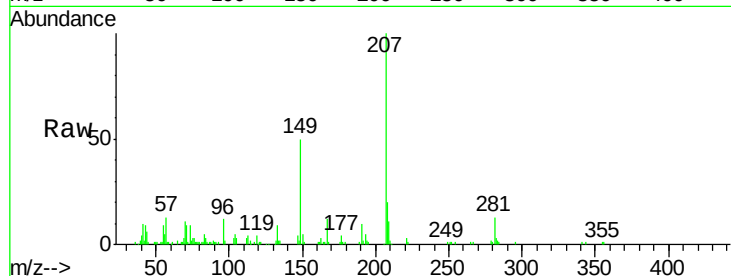




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.208 ng
 RT: 21.79 min Scan# 3196
 Delta R.T. -0.02 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

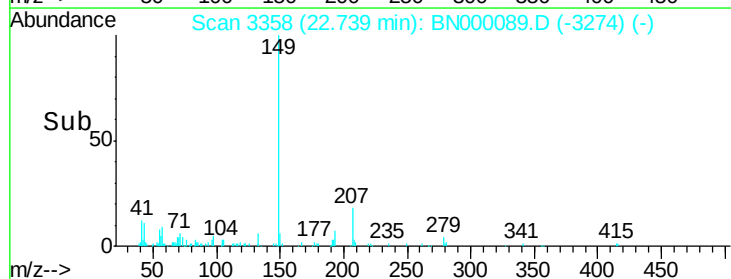
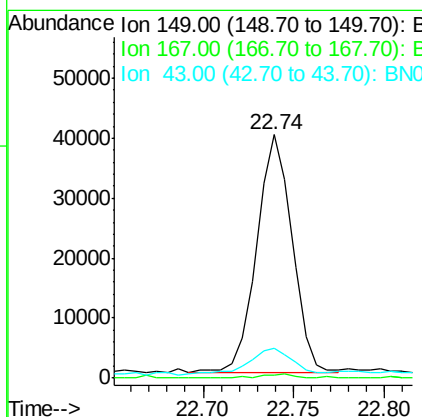
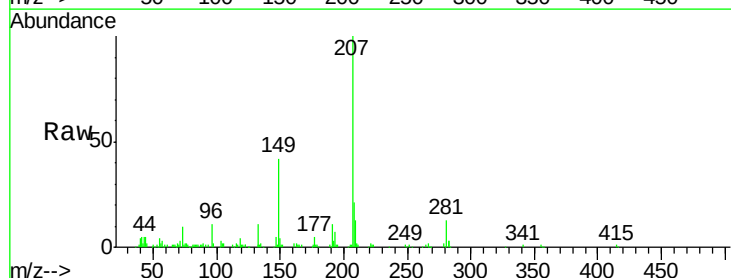
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

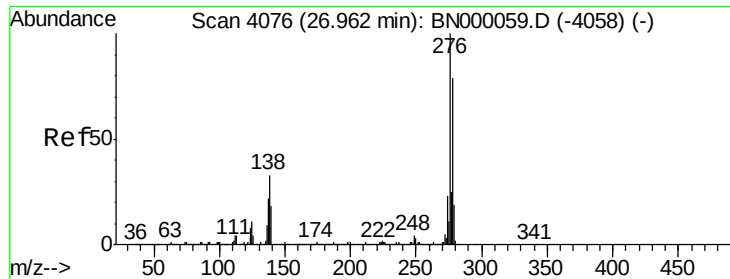
Tot Ion	Ratio	Lower	Upper
149	100		
167	24.7	24.3	36.5
279	3.2	4.0	6.0



#84
 Di-n-octyl phthalate
 Concen: 6.926 ng
 RT: 22.74 min Scan# 3358
 Delta R.T. -0.03 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.4	2.0
43	14.4	8.9	13.3

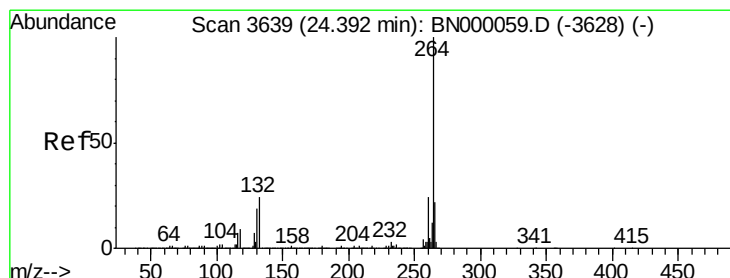
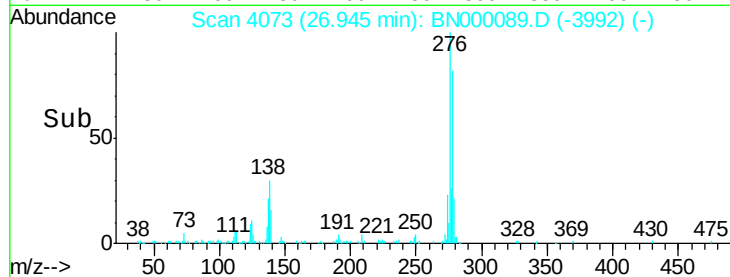
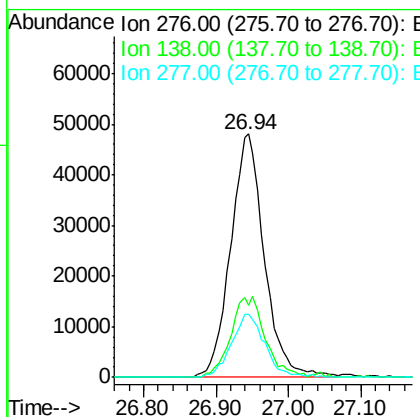
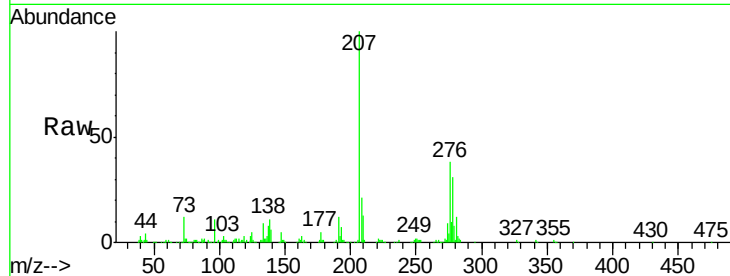




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 0.739 ng
 RT: 26.94 min Scan# 4073
 Delta R.T. -0.05 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

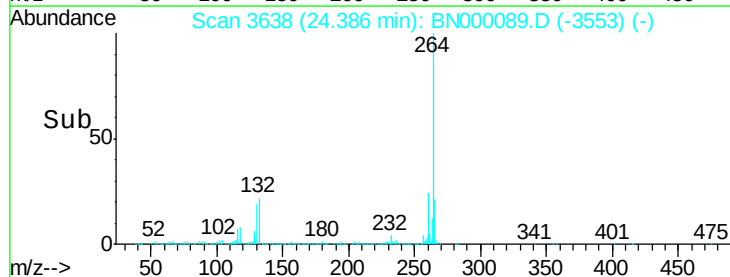
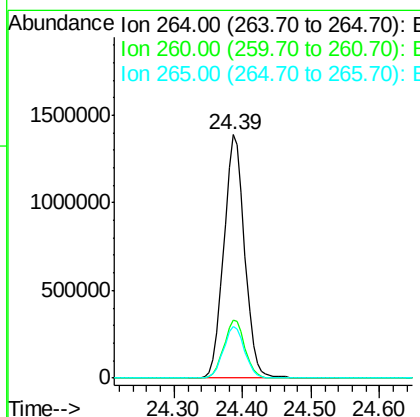
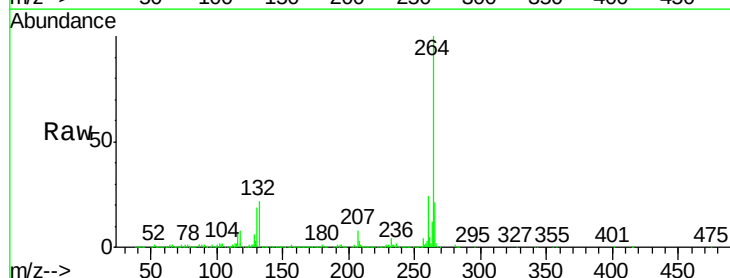
Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

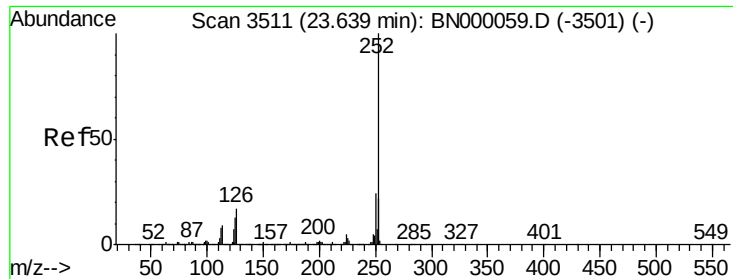
Tot Ion:276 Resp: 154983
 Ion Ratio Lower Upper
 276 100
 138 33.8 16.0 24.0#
 277 25.9 20.0 30.0



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.39 min Scan# 3638
 Delta R.T. -0.03 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

Tgt Ion:264 Resp: 2925678
 Ion Ratio Lower Upper
 264 100
 260 23.9 17.4 26.0
 265 21.1 17.7 26.5





#87

Benzo(b)fluoranthene

Concen: 0.863 ng

RT: 23.63 min Scan# 3509

Delta R.T. -0.03 min

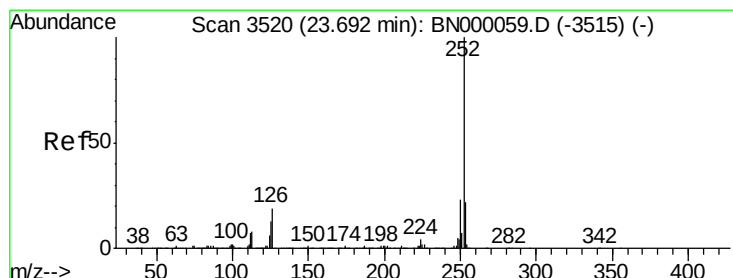
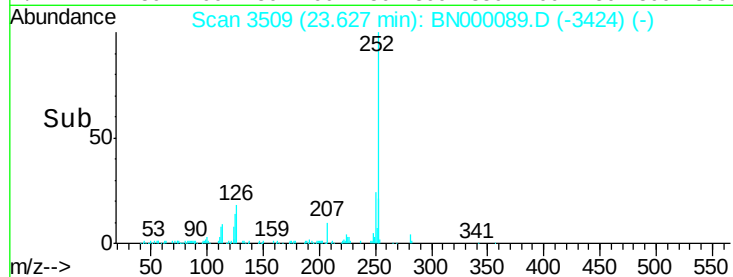
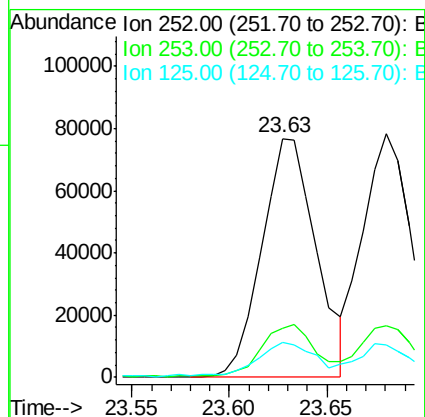
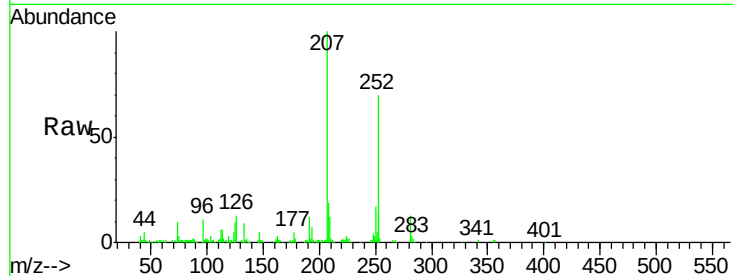
Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :
BNA_N
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2018

Tot Ion:252 Resp: 147817

Ion	Ratio	Lower	Upper
252	100		
253	20.5	18.2	27.4
125	14.4	7.2	10.8



#88

Benzo(k)fluoranthene

Concen: 0.803 ng

RT: 23.68 min Scan# 3518

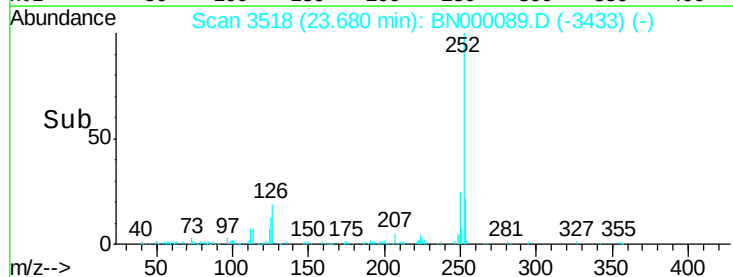
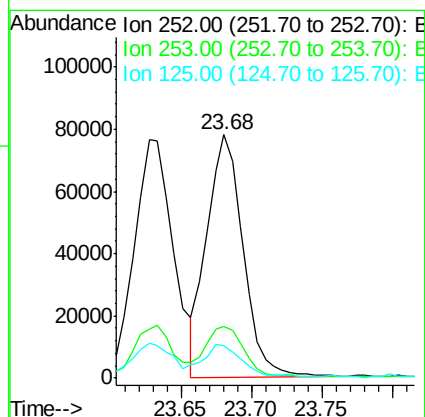
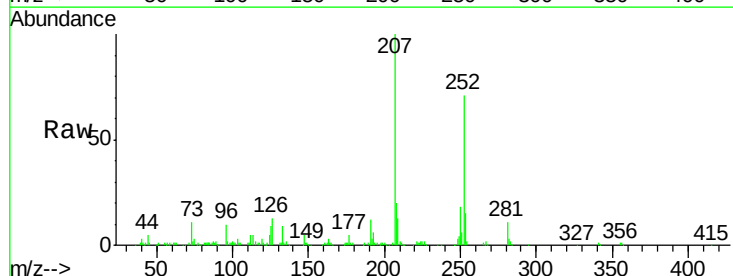
Delta R.T. -0.03 min

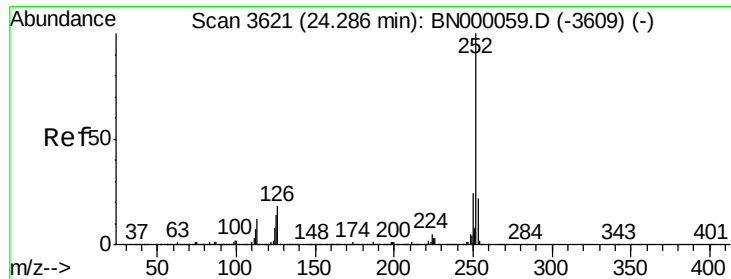
Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Tgt Ion:252 Resp: 138415

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.2
125	13.3	6.6	9.8





#89

Benzo(a)pyrene

Concen: 0.790 ng

RT: 24.28 min Scan# 3620

Delta R.T. -0.03 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

Instrument :

BNA_N

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2018

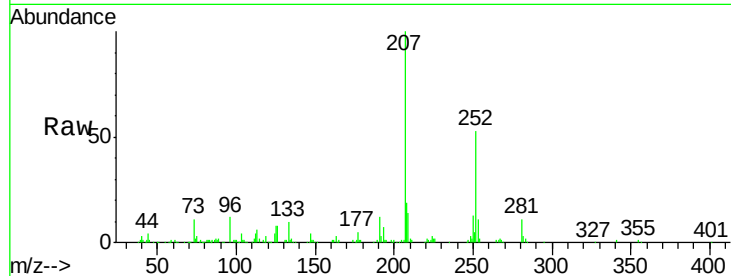
Tot Ion:252 Resp: 129817

Ion Ratio Lower Upper

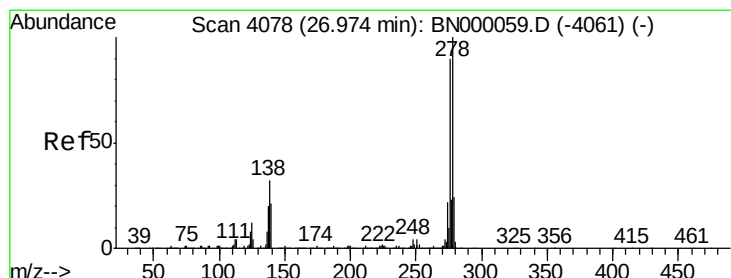
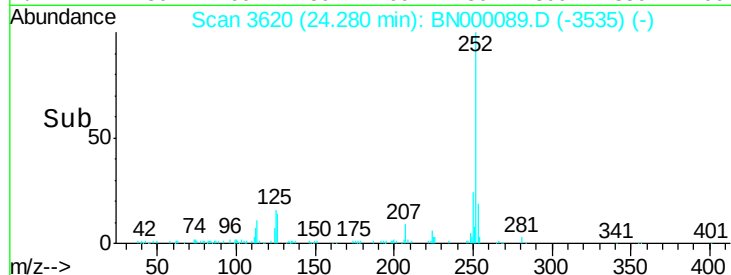
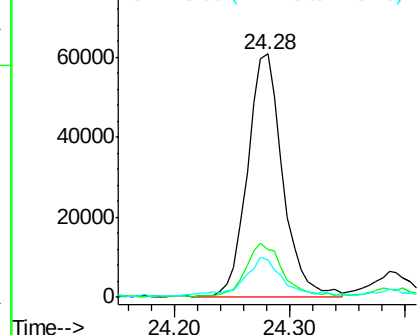
252 100

253 19.8 18.3 27.5

125 15.5 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 0.753 ng

RT: 26.95 min Scan# 4074

Delta R.T. -0.06 min

Lab File: BN000089.D

Acq: 15 Feb 2018 10:40

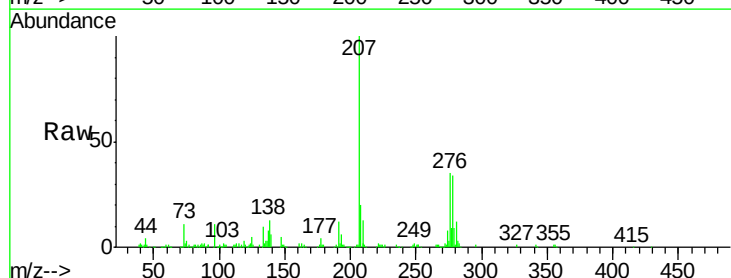
Tgt Ion:278 Resp: 129284

Ion Ratio Lower Upper

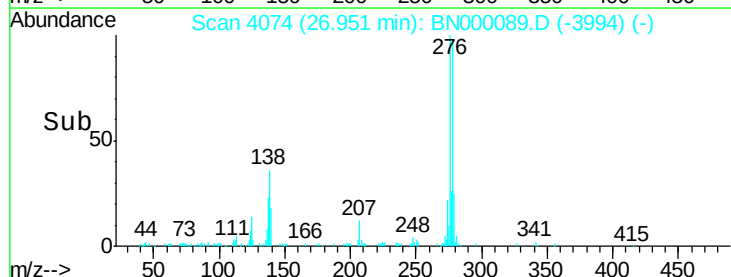
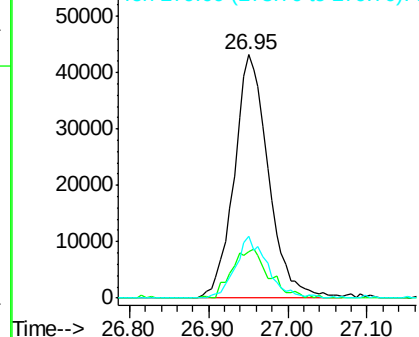
278 100

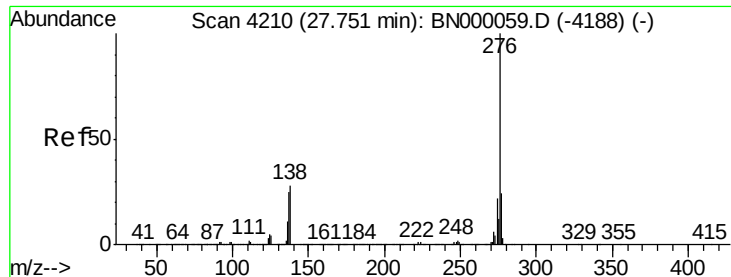
139 18.9 9.8 14.6#

279 25.2 18.4 27.6



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 0.747 ng
 RT: 27.73 min Scan# 4206
 Delta R.T. -0.06 min
 Lab File: BN000089.D
 Acq: 15 Feb 2018 10:40

Instrument :
 BNA_N
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2018

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.2	18.3	27.5
138	27.0	13.9	20.9

