

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102318\
 Data File : BF110090.D
 Acq On : 23 Oct 2018 21:04
 Operator : JU/SJ
 Sample : J5164-03
 Misc : MDL 8PPM
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Manual Integrations
 APPROVED

Sohil

10/24/2018 5:12:07 PM

Quant Time: Oct 24 05:59:46 2018

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 23 15:06:18 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	178549	20.00	ng	-0.02
21) Naphthalene-d8	8.25	136	753952	20.00	ng	-0.02
39) Acenaphthene-d10	10.01	164	370615	20.00	ng	-0.02
64) Phenanthrene-d10	11.50	188	713606	20.00	ng	-0.02
76) Chrysene-d12	14.14	240	593804	20.00	ng	-0.02
87) Perylene-d12	15.67	264	508609	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	1405123	128.15	ng	-0.01
7) Phenol-d6	6.59	99	1771008	126.28	ng	-0.01
23) Nitrobenzene-d5	7.53	82	1044870	82.20	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	469658	127.93	ng	-0.01
45) 2-Fluorobiphenyl	9.33	172	1888452	80.01	ng	-0.01
79) Terphenyl-d14	13.09	244	1985847	69.55	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.83	88	39361	6.852	ng	92
3) Pyridine	3.66	79	98113	7.668	ng	91
4) n-Nitrosodimethylamine	3.55	42	46416	8.659	ng	# 98
6) Aniline	6.63	93	141475	7.744	ng	# 54
8) 2-Chlorophenol	6.75	128	102264	8.090	ng	97
9) Benzaldehyde	6.52	77	66548	6.010	ng	96
10) Phenol	6.60	94	122439	8.168	ng	# 66
11) bis(2-Chloroethyl)ether	6.70	93	100724	8.167	ng	97
12) 1,3-Dichlorobenzene	6.90	146	113377	8.150	ng	96
13) 1,4-Dichlorobenzene	6.98	146	114667	8.150	ng	100
14) 1,2-Dichlorobenzene	7.13	146	105752	8.097	ng	98
15) Benzyl Alcohol	7.10	79	100017	9.273	ng	# 90
16) 2,2'-oxybis(1-Chloropropan	7.23	45	162976	8.265	ng	67
17) 2-Methylphenol	7.20	107	83815	8.320	ng	# 81
18) Hexachloroethane	7.47	117	41376	8.033	ng	96
19) n-Nitroso-di-n-propylamine	7.36	70	72615	8.071	ng	93
20) 3+4-Methylphenols	7.35	107	110095	8.454	ng	# 84
22) Acetophenone	7.37	105	149306	8.594	ng	# 98
24) Nitrobenzene	7.55	77	109747	8.363	ng	91
25) Isophorone	7.77	82	199326	9.199	ng	99
26) 2-Nitrophenol	7.86	139	47406	7.591	ng	96
27) 2,4-Dimethylphenol	7.89	122	91581	8.845	ng	99
28) bis(2-Chloroethoxy)methane	7.99	93	127228	8.643	ng	99
29) 2,4-Dichlorophenol	8.10	162	86276	8.248	ng	95
30) 1,2,4-Trichlorobenzene	8.19	180	94596	8.073	ng	92
31) Naphthalene	8.27	128	317546	9.138	ng	99
32) Benzoic acid	7.96	122	40179	5.021	ng	96
33) 4-Chloroaniline	8.32	127	111096	7.104	ng	96
34) Hexachlorobutadiene	8.38	225	50975	7.835	ng	96
35) Caprolactam	8.65	113	26936	7.388	ng	92
36) 4-Chloro-3-methylphenol	8.78	107	92189	8.150	ng	96
37) 2-Methylnaphthalene	8.96	142	217739	9.471	ng	97
38) 1-Methylnaphthalene	9.06	142	202611	9.119	ng	98
40) 1,2,4,5-Tetrachlorobenzene	9.12	216	91035	7.883	ng	99

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 MDL-MDL-SOIL-03-QT4-2018

Manual Integrations
 APPROVED

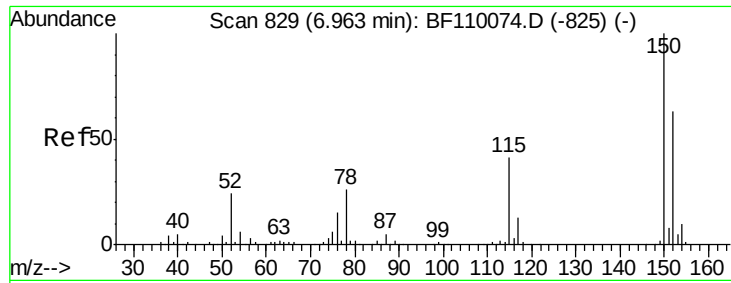
Sohil

10/24/2018 5:12:07 PM

Quant Time: Oct 24 05:59:46 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 23 15:06:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.11	237	46664	7.903	ng	99
43) 2,4,6-Trichlorophenol	9.23	196	59028	7.925	ng	97
44) 2,4,5-Trichlorophenol	9.27	196	64499	8.193	ng	94
46) 1,1'-Biphenyl	9.42	154	269357	8.037	ng	100
47) 2-Chloronaphthalene	9.45	162	206304	8.392	ng	98
48) 2-Nitroaniline	9.55	65	60765	8.157	ng	91
49) Acenaphthylene	9.87	152	322060	9.070	ng	98
50) Dimethylphthalate	9.72	163	232059	8.482	ng	100
51) 2,6-Dinitrotoluene	9.78	165	49587	8.415	ng	94
52) Acenaphthene	10.04	154	202777	8.632	ng	98
53) 3-Nitroaniline	9.95	138	48693	6.948	ng	92
54) 2,4-Dinitrophenol	10.06	184	13249	10.473	ng	87
55) Dibenzofuran	10.21	168	281943	8.573	ng	97
56) 4-Nitrophenol	10.10	139	41895	8.077	ng	91
57) 2,4-Dinitrotoluene	10.19	165	65356	8.731	ng	# 83
58) Fluorene	10.56	166	229009	9.356	ng	97
59) 2,3,4,6-Tetrachlorophenol	10.33	232	51273m	7.990	ng	
60) Diethylphthalate	10.42	149	226584	8.484	ng	100
61) 4-Chlorophenyl-phenylether	10.55	204	107556	8.330	ng	97
62) 4-Nitroaniline	10.56	138	56189	8.062	ng	92
63) Azobenzene	10.70	77	231345	8.727	ng	98
65) 4,6-Dinitro-2-methylphenol	10.59	198	20515	6.292	ng	89
66) n-Nitrosodiphenylamine	10.66	169	197460	8.436	ng	96
67) 4-Bromophenyl-phenylether	11.03	248	64508	8.334	ng	# 91
68) Hexachlorobenzene	11.10	284	67474	8.216	ng	98
69) Atrazine	11.18	200	63465	8.580	ng	95
70) Pentachlorophenol	11.30	266	27575	5.758	ng	94
71) Phenanthrene	11.52	178	350307	9.382	ng	100
72) Anthracene	11.57	178	357835	9.561	ng	99
73) Carbazole	11.73	167	308116	8.432	ng	99
74) Di-n-butylphthalate	12.05	149	365783	8.863	ng	99
75) Fluoranthene	12.72	202	360063	9.502	ng	98
77) Benzidine	12.83	184	97390	4.001	ng	96
78) Pyrene	12.95	202	357455	8.397	ng	98
80) Butylbenzylphthalate	13.55	149	146532	7.930	ng	99
81) Benzo(a)anthracene	14.13	228	316412	8.985	ng	100
82) 3,3'-Dichlorobenzidine	14.09	252	84019	6.852	ng	96
83) Chrysene	14.17	228	300638	8.989	ng	98
84) Bis(2-ethylhexyl)phthalate	14.10	149	212707	8.516	ng	97
85) Di-n-octyl phthalate	14.72	149	335718	8.644	ng	98
86) Indeno(1,2,3-cd)pyrene	17.22	276	236361	8.518	ng	# 95
88) Benzo(b)fluoranthene	15.21	252	263348	8.966	ng	98
89) Benzo(k)fluoranthene	15.24	252	266223	9.220	ng	98
90) Benzo(a)pyrene	15.60	252	246580	9.124	ng	97
91) Dibenzo(a,h)anthracene	17.23	278	195170	8.370	ng	96
92) Benzo(g,h,i)perylene	17.69	276	187594	8.164	ng	97

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



#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

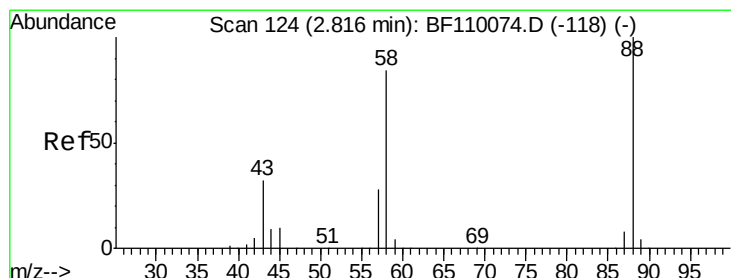
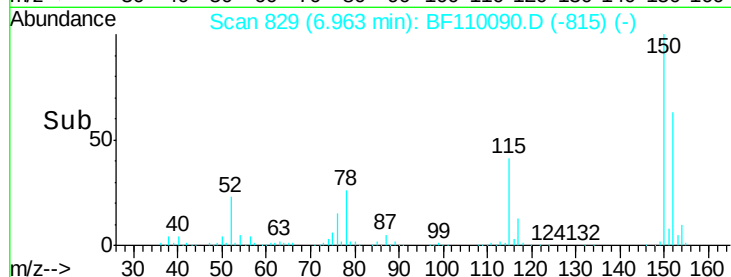
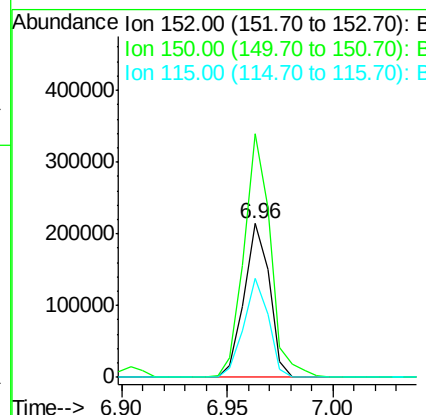
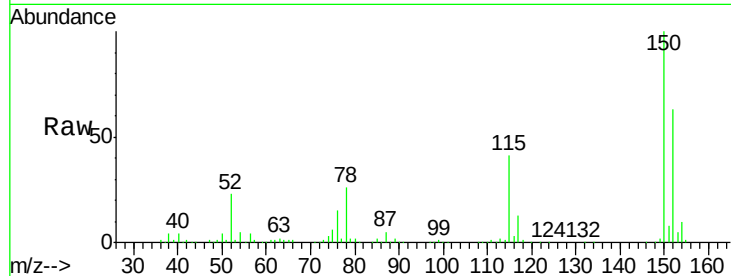
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.5	122.7	184.1
115	64.5	49.1	73.7

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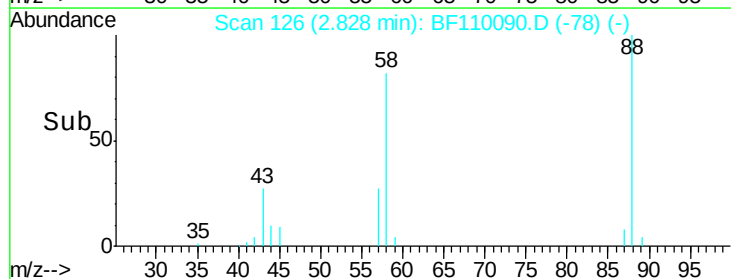
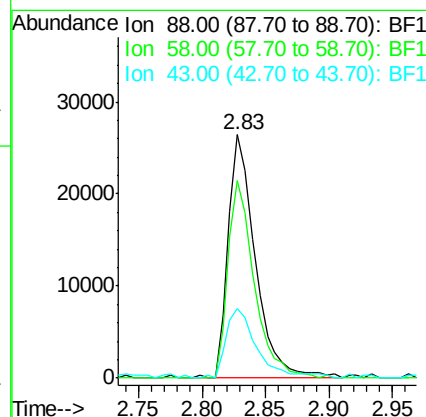
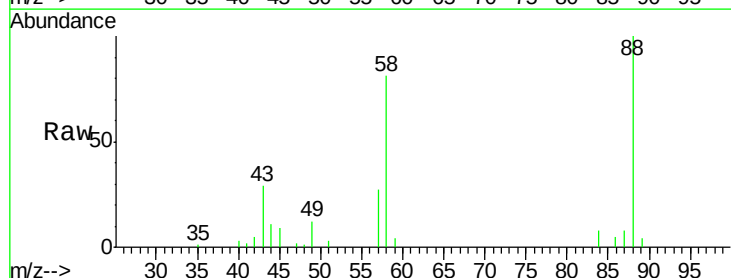
10/24/2018 5:12:07 PM

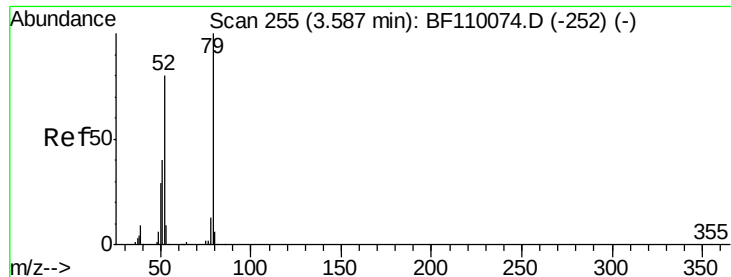


#2

1,4-Dioxane
Concen: 6.852 ng
RT: 2.83 min Scan# 126
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
88	100		
58	78.4	57.1	85.7
43	32.9	24.1	36.1





#3

Pyridine

Concen: 7.668 ng

RT: 3.66 min Scan# 267

Delta R.T. 0.04 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

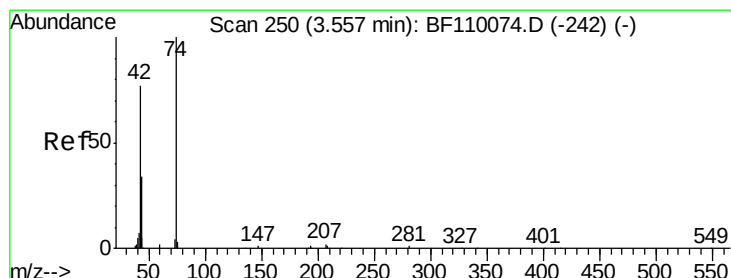
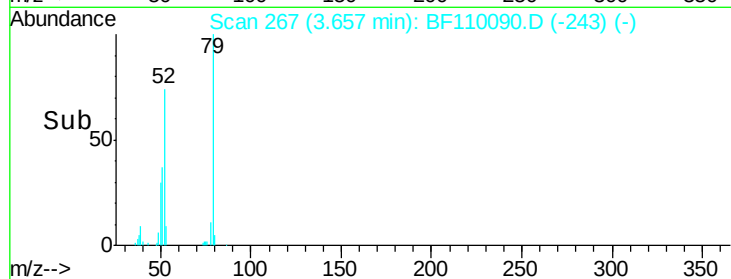
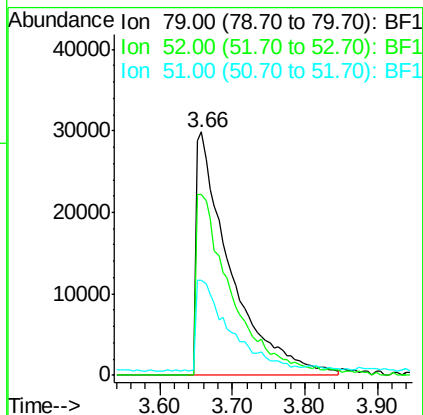
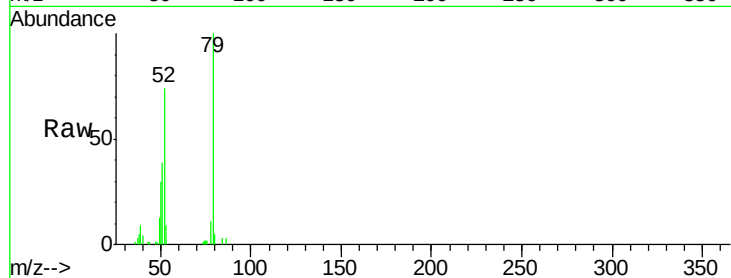
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	79	Resp:	98113
Ion Ratio	Lower	Upper	
79	100		
52	74.2	53.1	79.7
51	39.2	27.4	41.2

Manual Integrations
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#4

n-Nitrosodimethylamine

Concen: 8.659 ng

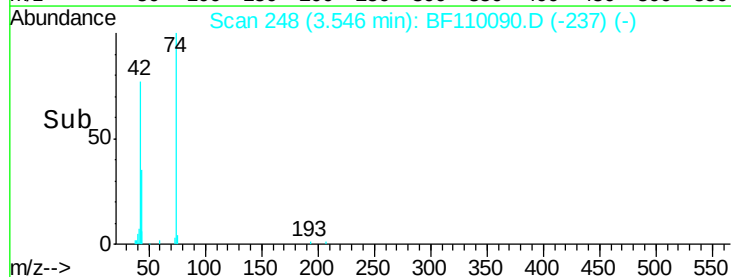
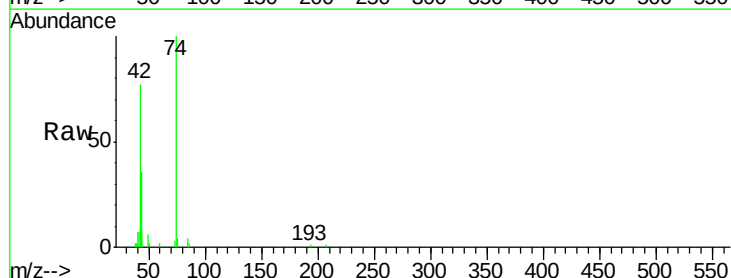
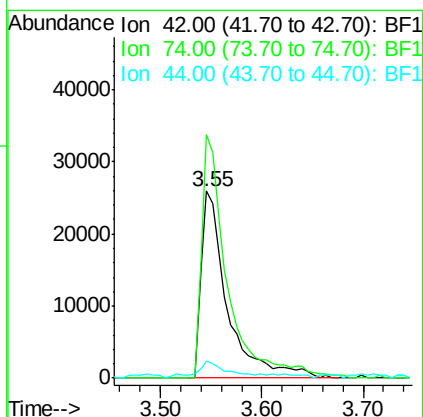
RT: 3.55 min Scan# 248

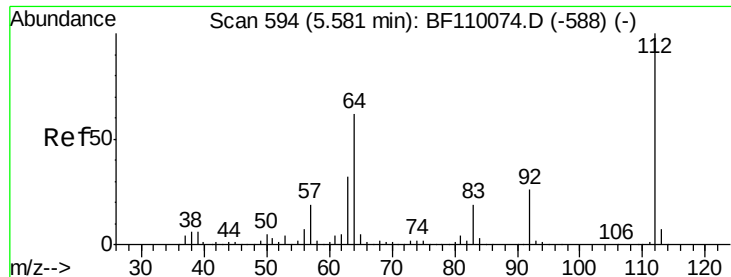
Delta R.T. -0.04 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:	42	Resp:	46416
Ion Ratio	Lower	Upper	
42	100		
74	130.0	105.5	158.3
44	9.4	4.9	7.3#





#5

2-Fluorophenol

Concen: 128.154 ng

RT: 5.59 min Scan# 595

Delta R.T. -0.01 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 112 Resp: 1405123

Ion Ratio Lower Upper

112 100

64 60.4 44.1 66.1

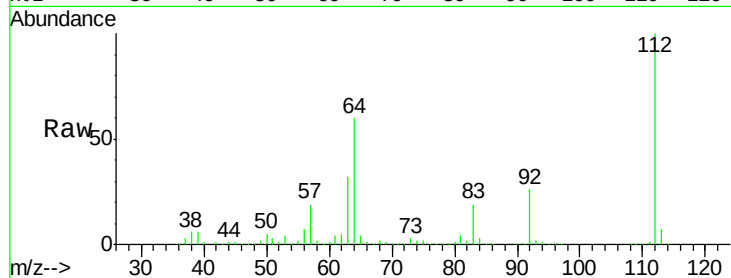
63 31.8 23.7 35.5

Manual Integrations

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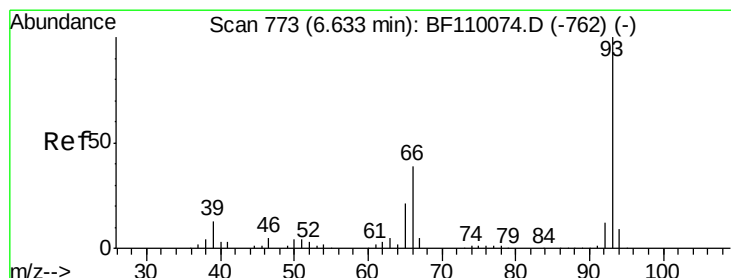
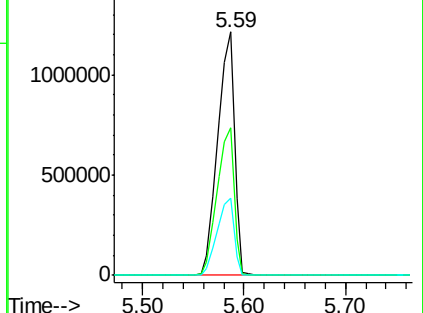
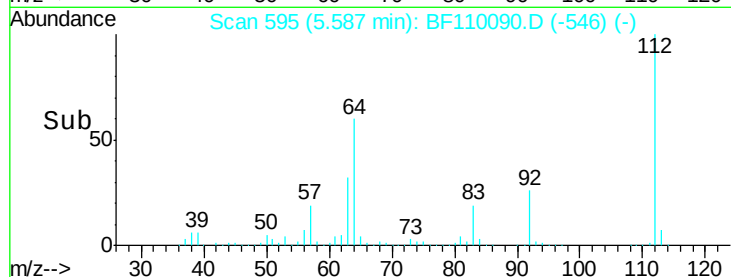
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Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 7.744 ng

RT: 6.63 min Scan# 772

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

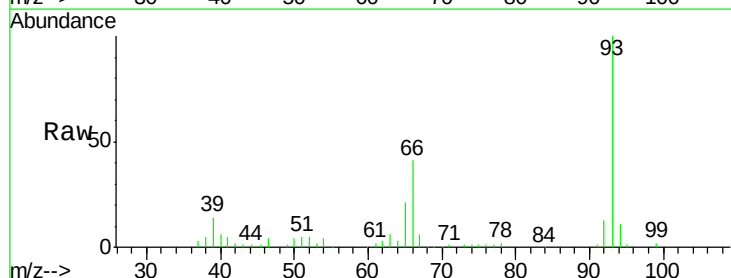
Tgt Ion: 93 Resp: 141475

Ion Ratio Lower Upper

93 100

66 40.5 67.4 101.0#

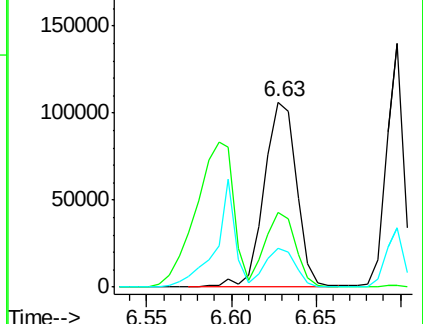
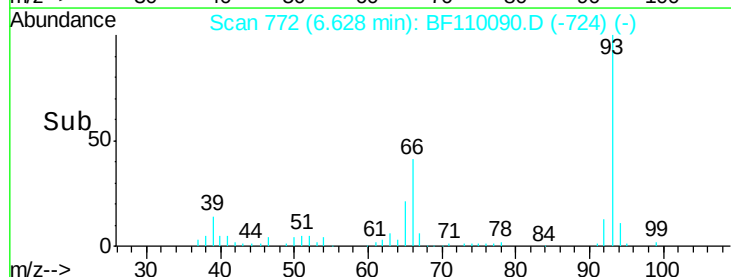
65 20.9 41.0 61.4#

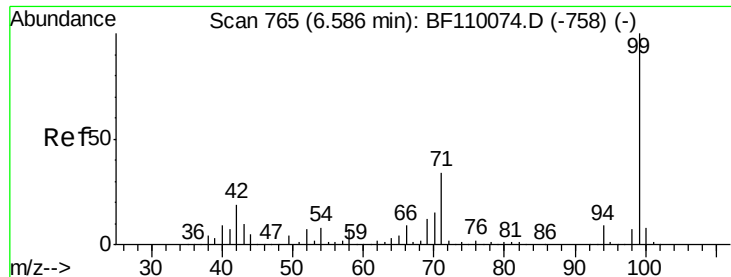


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 126.282 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 99 Resp: 1771008

Ion Ratio Lower Upper

99 100

42 18.8 15.8 23.6

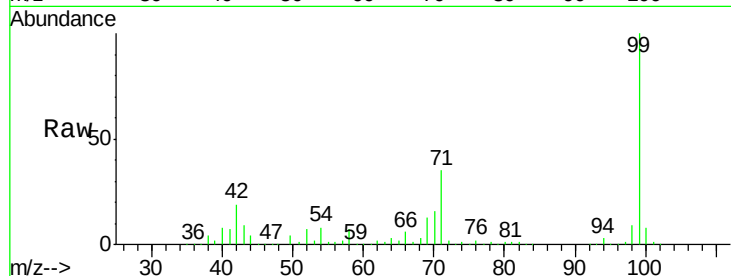
71 34.5 28.0 42.0

Manual Integrations

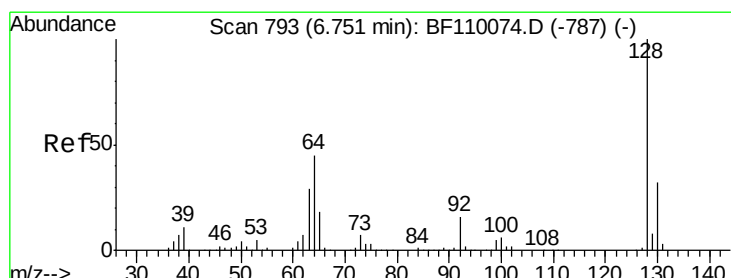
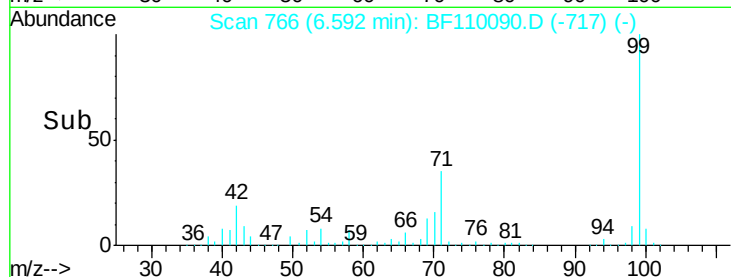
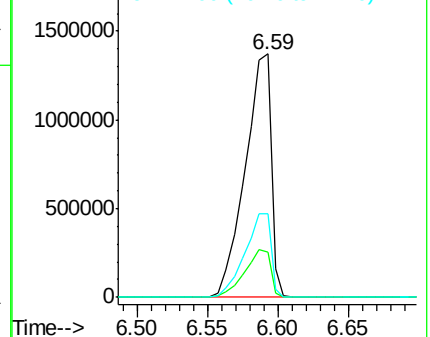
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 8.090 ng

RT: 6.75 min Scan# 793

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

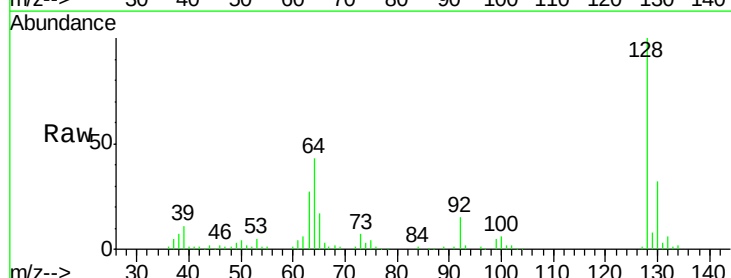
Tgt Ion: 128 Resp: 102264

Ion Ratio Lower Upper

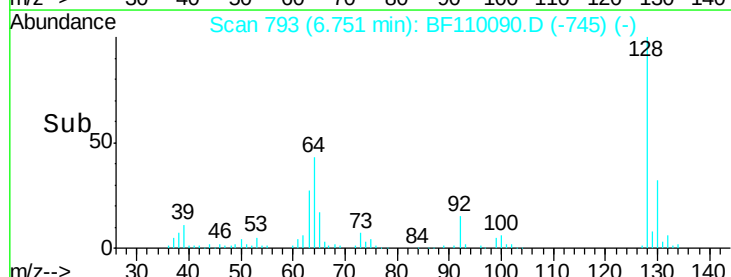
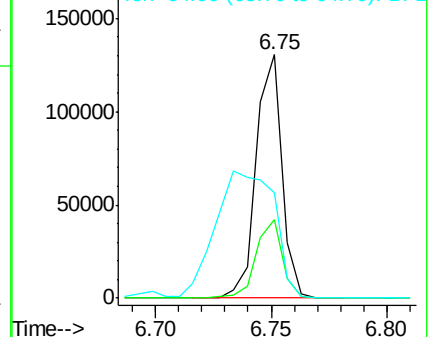
128 100

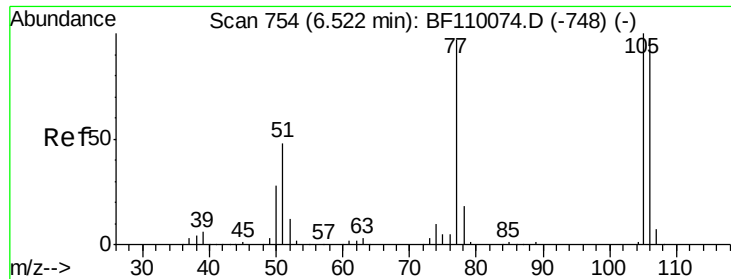
130 32.5 13.1 53.1

64 43.1 26.0 66.0



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): BF1





#9

Benzaldehyde

Concen: 6.010 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 77 Resp: 66548

Ion Ratio Lower Upper

77 100

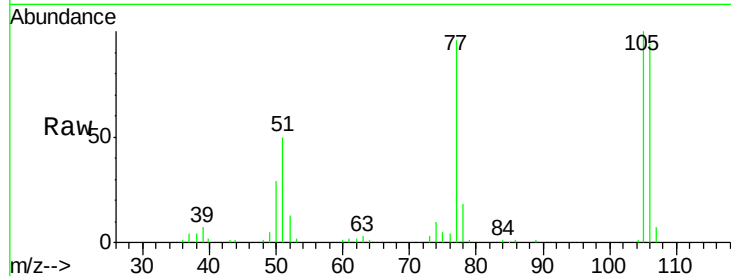
105 104.1 78.6 118.6

106 97.7 74.8 114.8

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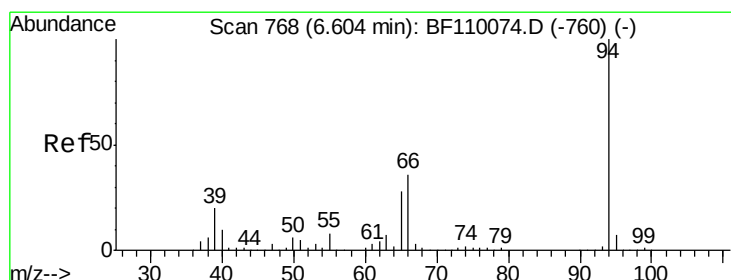
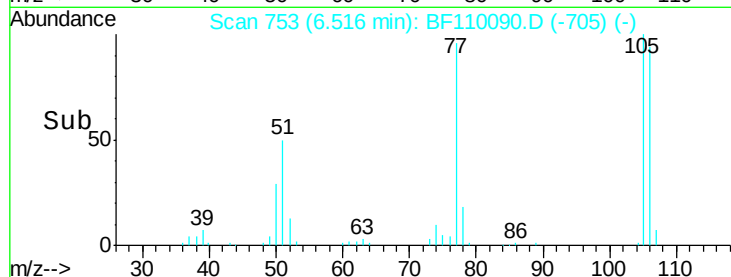
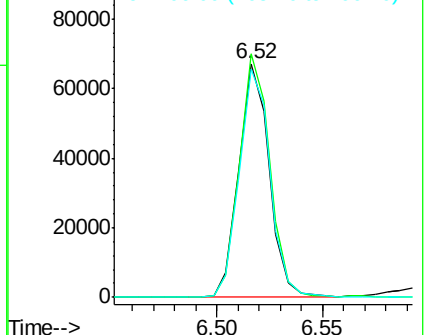
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Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 8.168 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

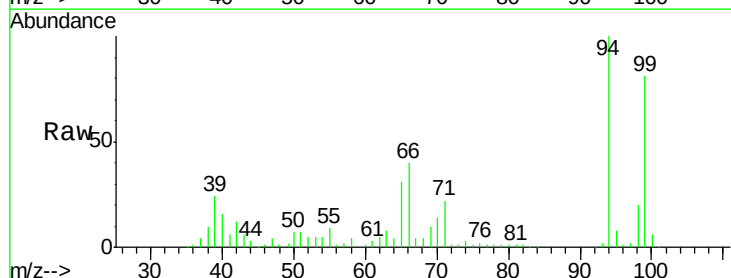
Tgt Ion: 94 Resp: 122439

Ion Ratio Lower Upper

94 100

65 30.7 25.3 65.3

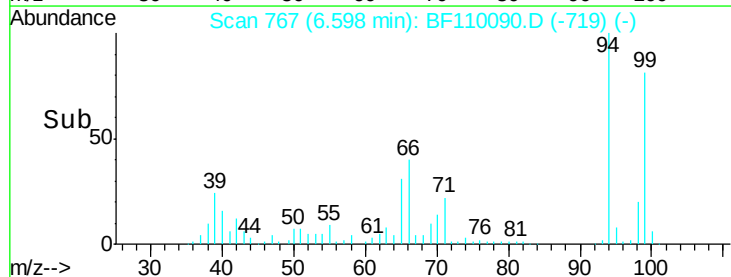
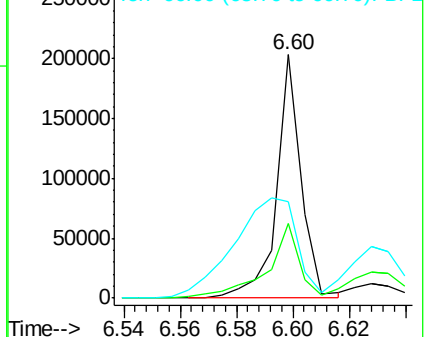
66 39.7 54.5 94.5#

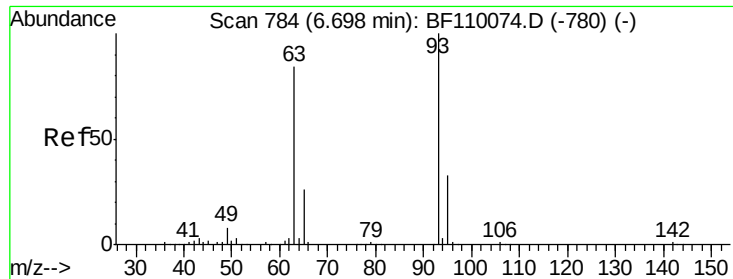


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#11
bis(2-Chloroethyl)ether
Concen: 8.167 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

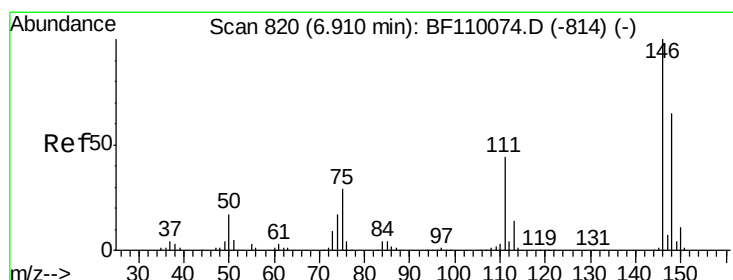
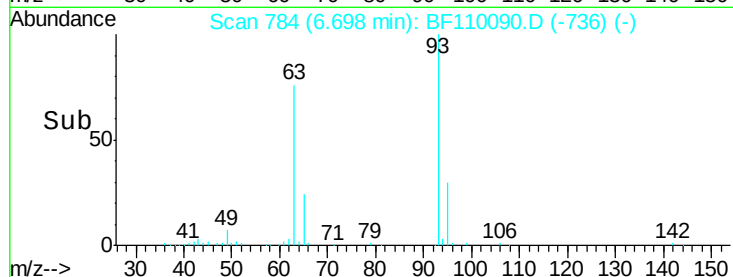
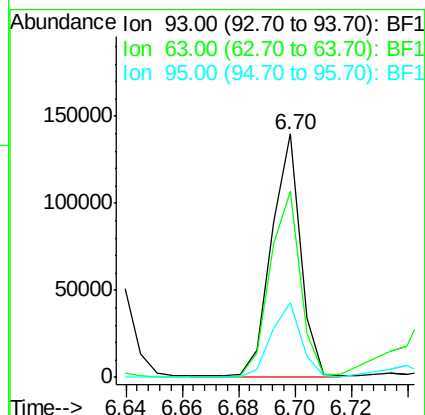
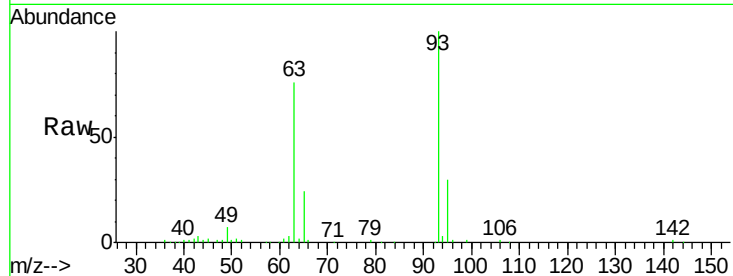
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	93	Resp:	100724
Ion	Ratio	Lower	Upper
93	100		
63	76.2	53.4	93.4
95	30.4	12.1	52.1

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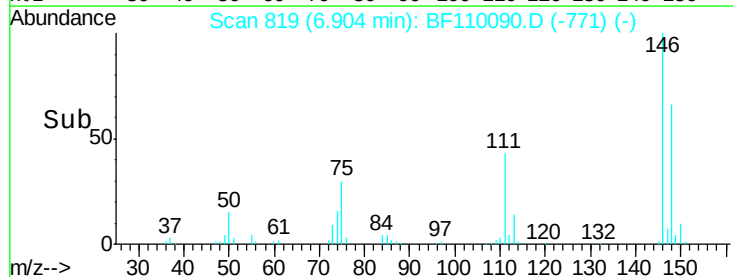
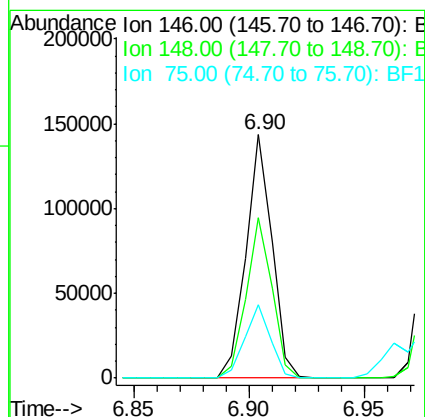
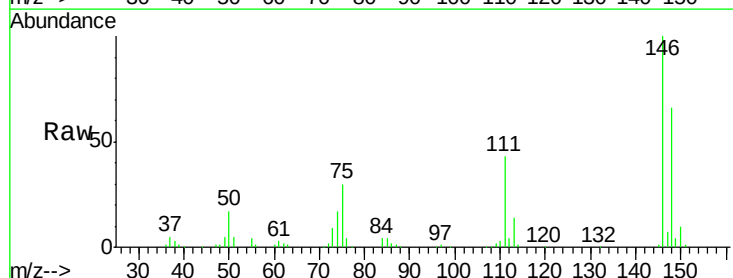
Sohil

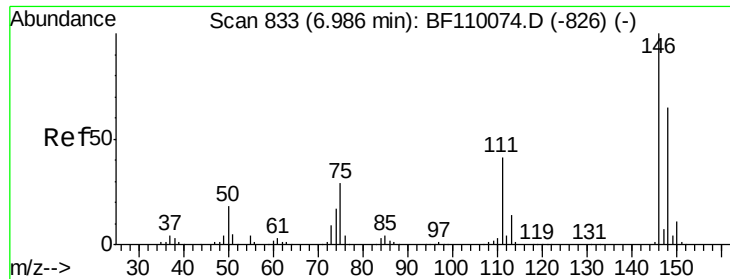
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#12
1,3-Dichlorobenzene
Concen: 8.150 ng
RT: 6.90 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:	146	Resp:	113377
Ion	Ratio	Lower	Upper
146	100		
148	66.0	50.4	75.6
75	29.9	25.8	38.6





#13
1,4-Dichlorobenzene
Concen: 8.150 ng
RT: 6.98 min Scan# 832
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

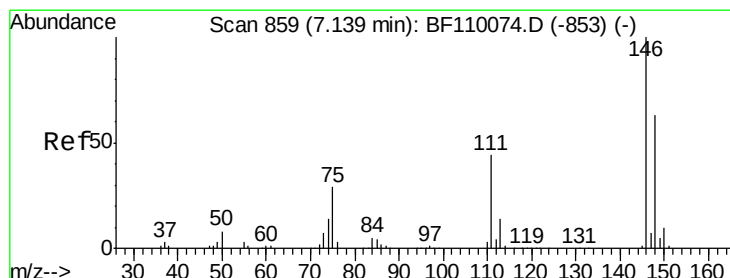
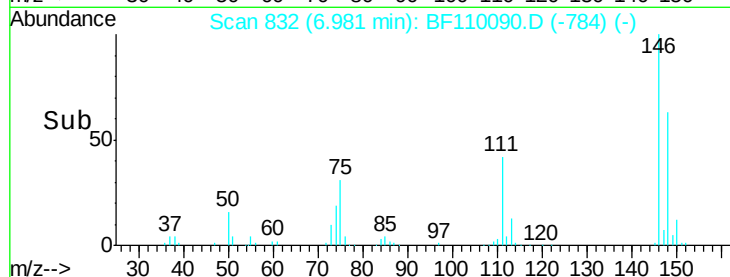
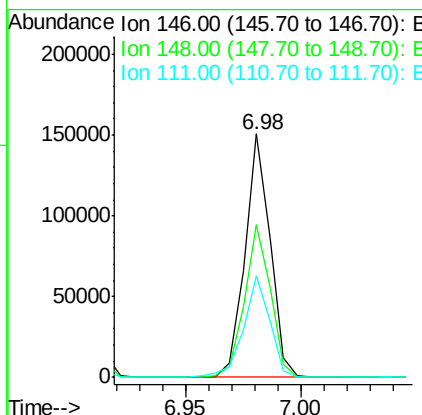
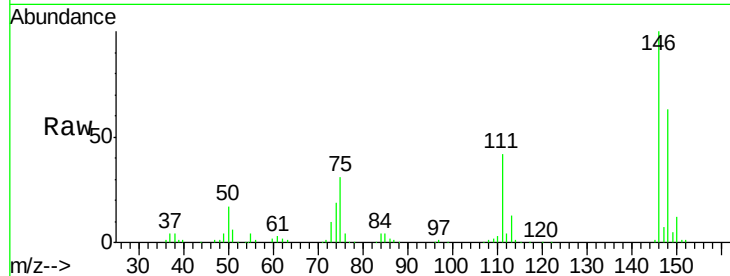
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	114667		
148	62.8	50.3	75.5	
111	41.5	32.7	49.1	

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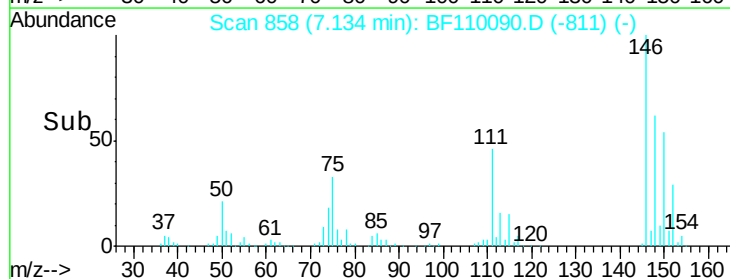
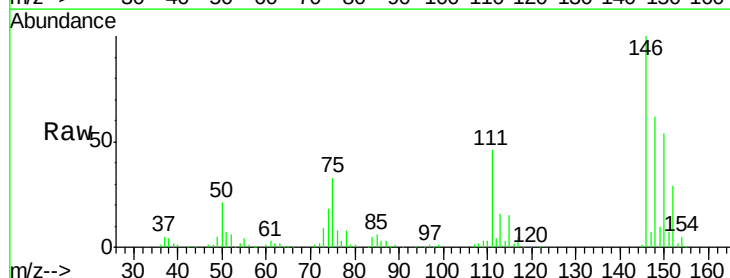
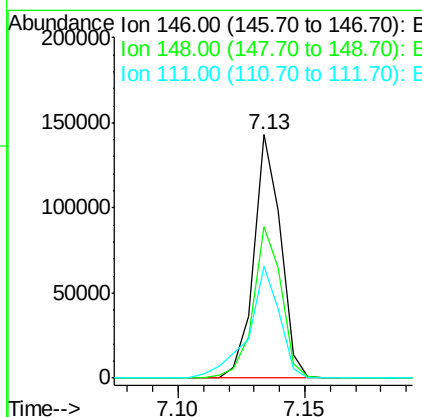
Sohil

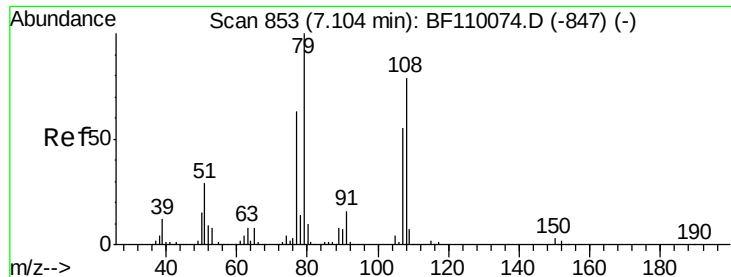
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#14
1,2-Dichlorobenzene
Concen: 8.097 ng
RT: 7.13 min Scan# 858
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	105752		
148	62.5	51.1	76.7	
111	45.8	35.8	53.6	





#15

Benzyl Alcohol

Concen: 9.273 ng

RT: 7.10 min Scan# 852

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 79 Resp: 100017
Ion Ratio Lower Upper

79 100

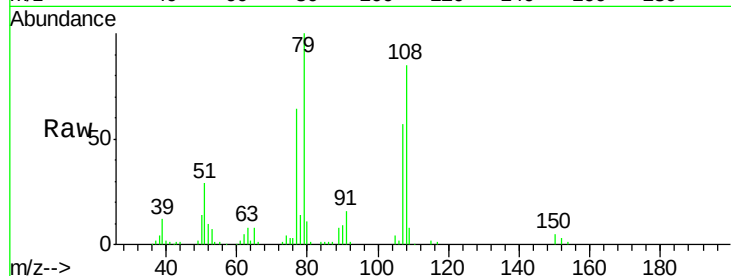
108 84.9 56.3 84.5#

77 64.1 52.9 79.3

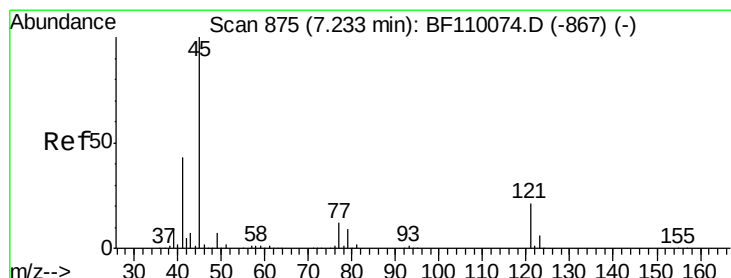
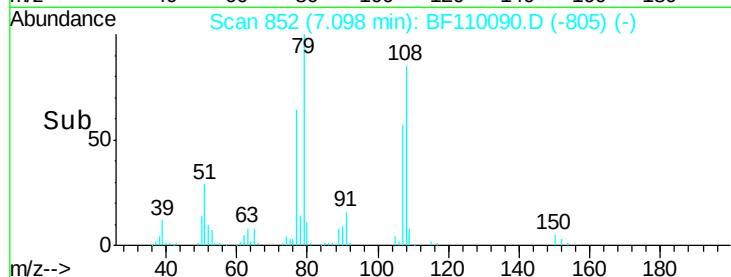
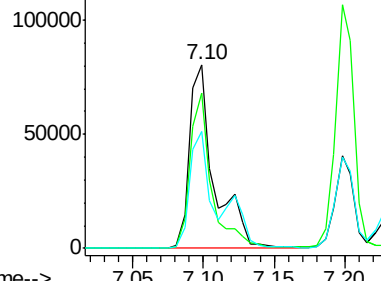
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Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 108.00 (107.70 to 108.70): BF1
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-chloropropane)

Concen: 8.265 ng

RT: 7.23 min Scan# 874

Delta R.T. -0.02 min

Lab File: BF110090.D

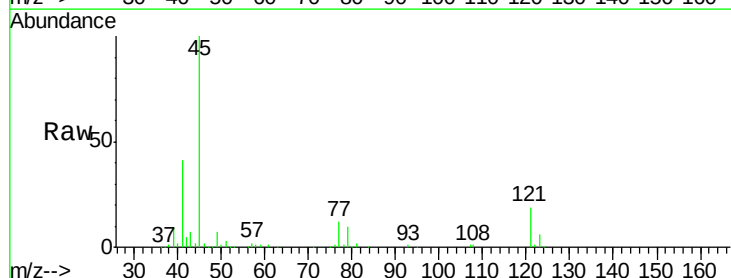
Acq: 23 Oct 2018 21:04

Tgt Ion: 45 Resp: 162976
Ion Ratio Lower Upper

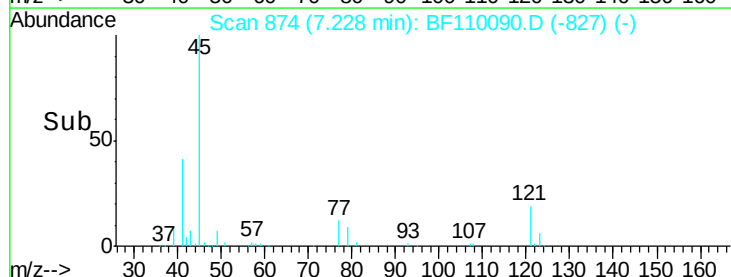
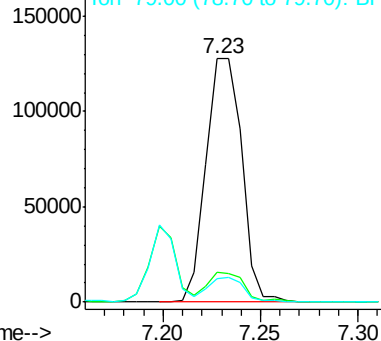
45 100

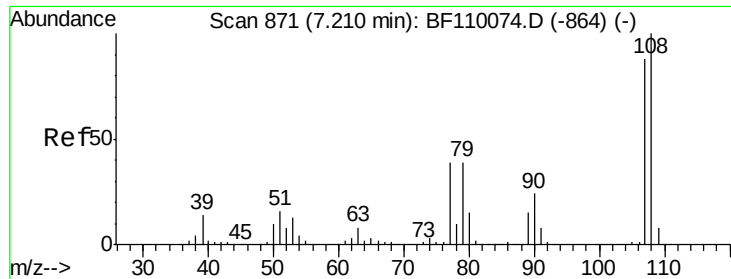
77 12.2 10.0 50.0

79 9.5 6.1 46.1



Abundance Ion 45.00 (44.70 to 45.70): BF1
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1





#17
2-Methylphenol
Concen: 8.320 ng
RT: 7.20 min Scan# 869
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

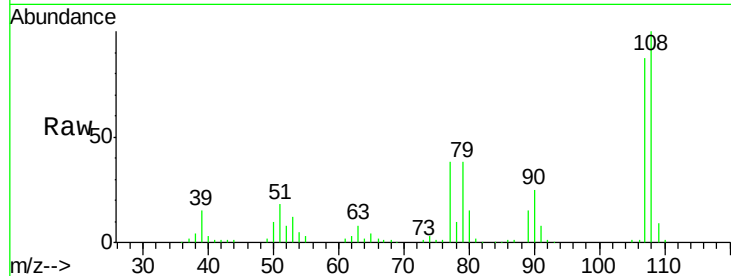
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	107	Resp:	83815
Ion Ratio	Lower	Upper	
107	100		
108	115.2	92.6	138.8
77	43.3	59.4	89.2#
79	43.5	54.0	81.0#

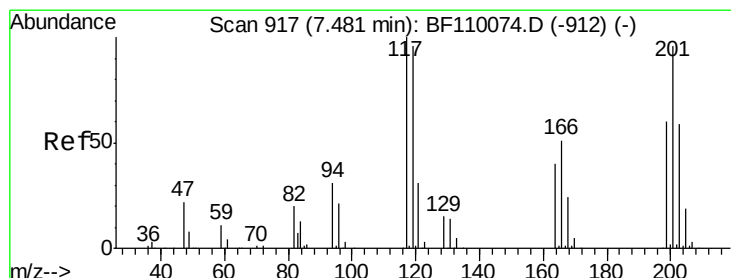
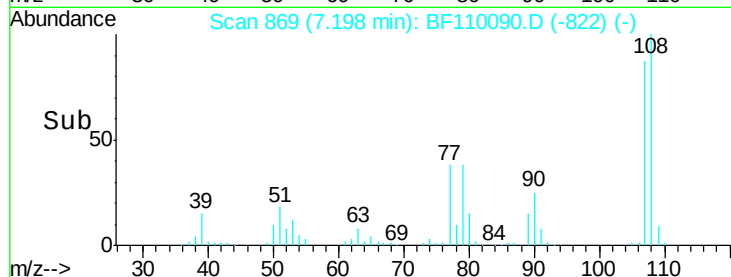
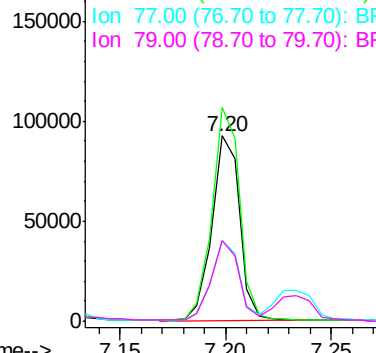
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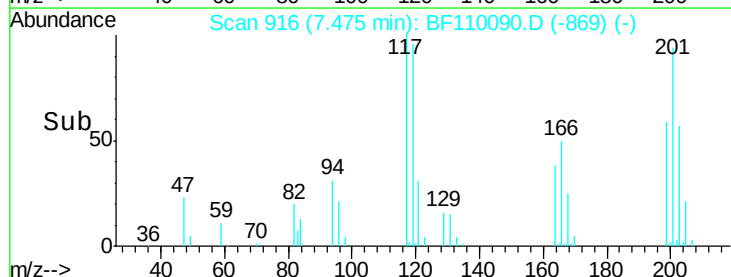
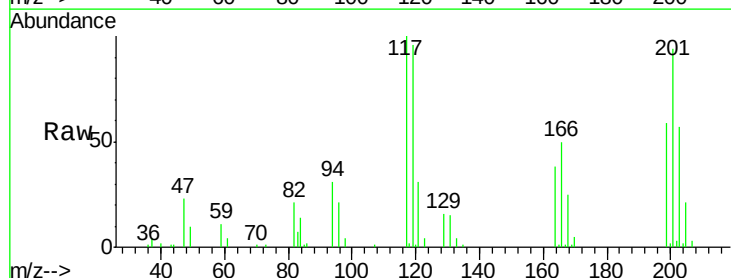
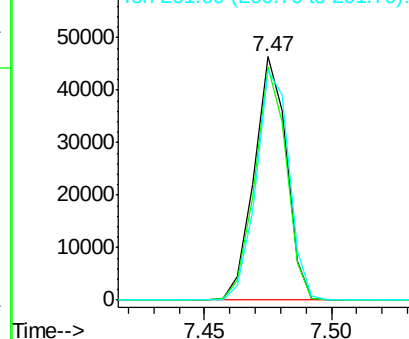
Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

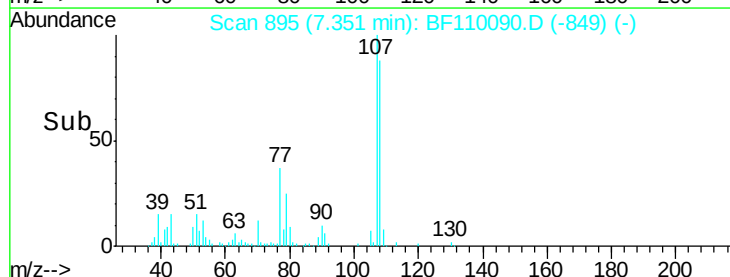
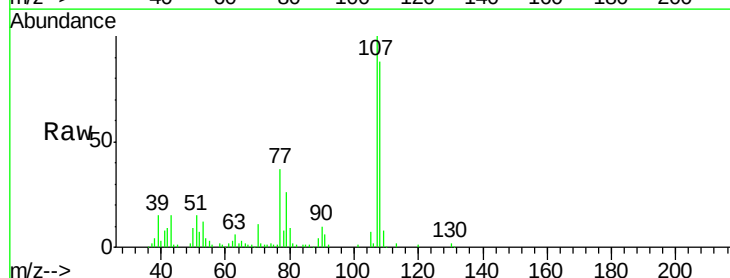
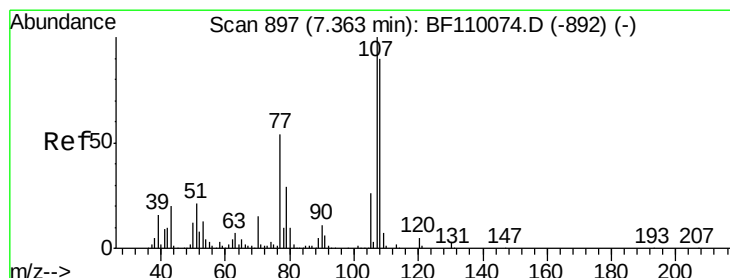
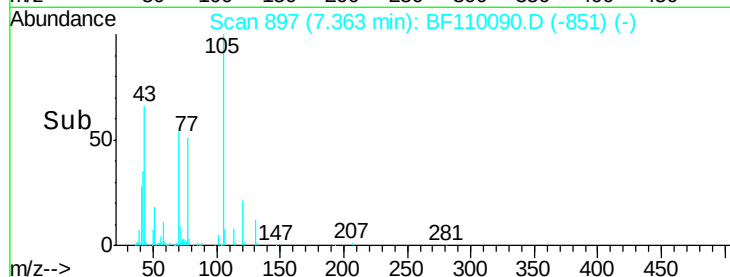
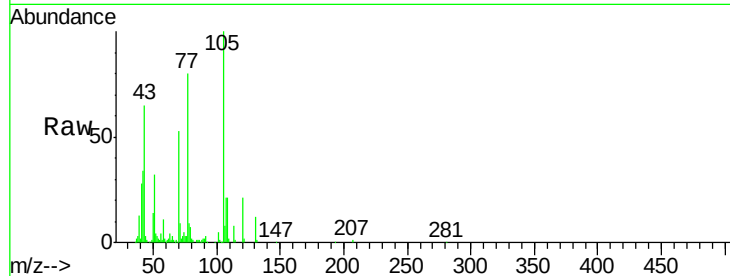
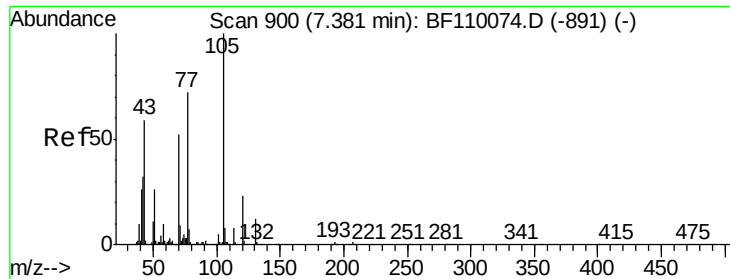


#18
Hexachloroethane
Concen: 8.033 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:	117	Resp:	41376
Ion Ratio	Lower	Upper	
117	100		
119	96.0	75.0	112.6
201	94.1	79.2	118.8

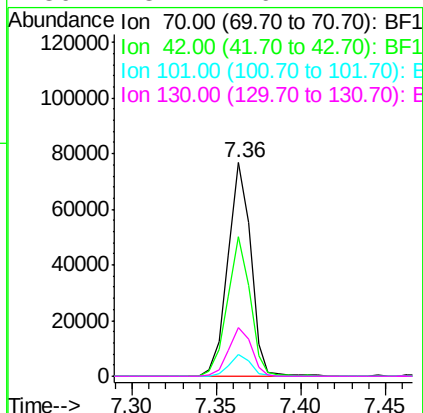
Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#19
n-Nitroso-di-n-propylamine
Concen: 8.071 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.03 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
70	100		
42	65.5	47.4	71.2
101	10.1	7.3	10.9
130	23.1	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

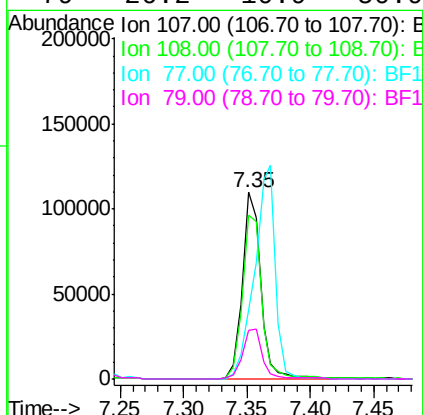
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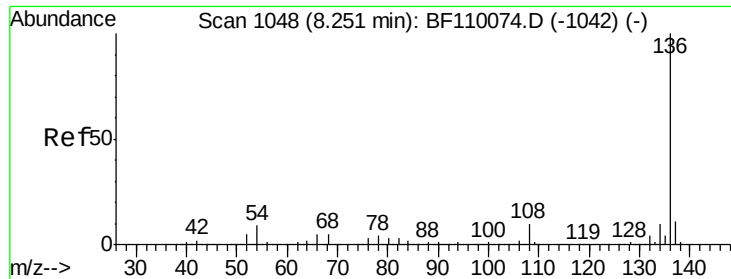
Sohil

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#20
3+4-Methylphenols
Concen: 8.454 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.03 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
107	100		
108	88.0	71.4	111.4
77	37.3	47.3	87.3#
79	26.2	10.9	50.9





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

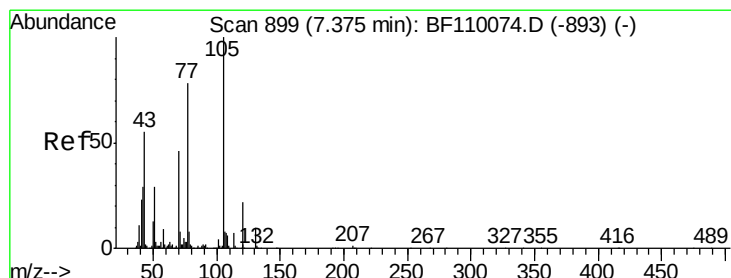
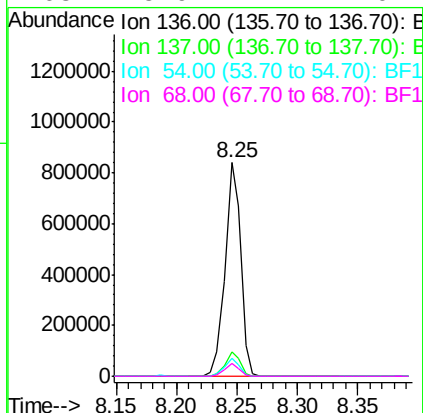
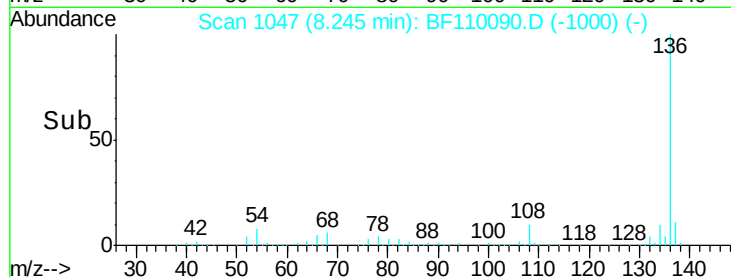
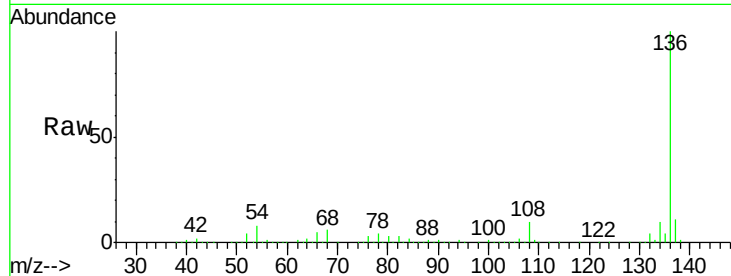
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	753952		
137	11.3	8.8	13.2	
54	8.2	5.4	8.2#	
68	5.9	4.2	6.2	

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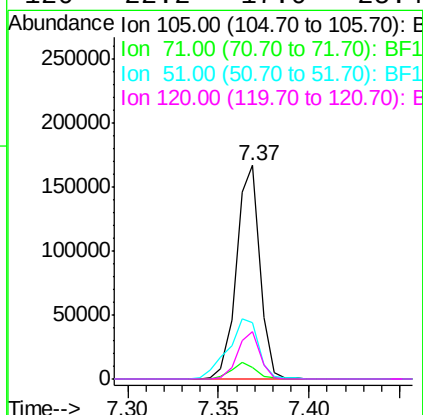
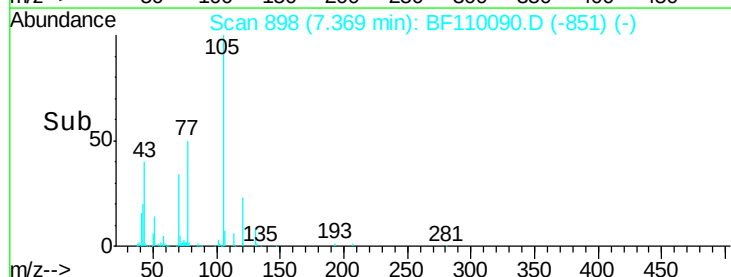
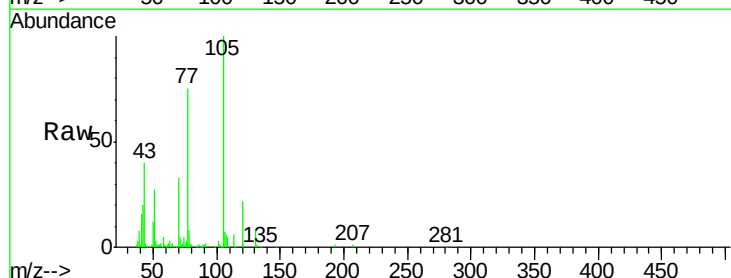
Sohil

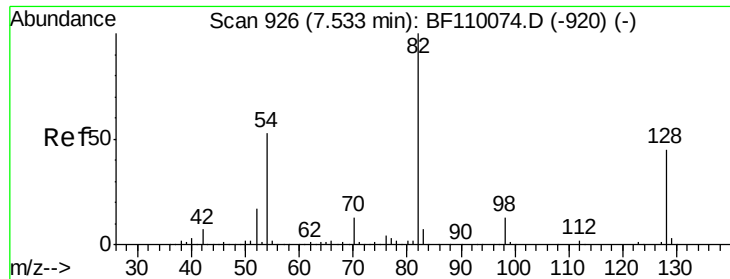
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#22
Acetophenone
Concen: 8.594 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	149306		
71	5.2	5.2	7.8#	
51	26.6	21.8	32.8	
120	22.2	17.0	25.4	





#23
Nitrobenzene-d5
Concen: 82.200 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

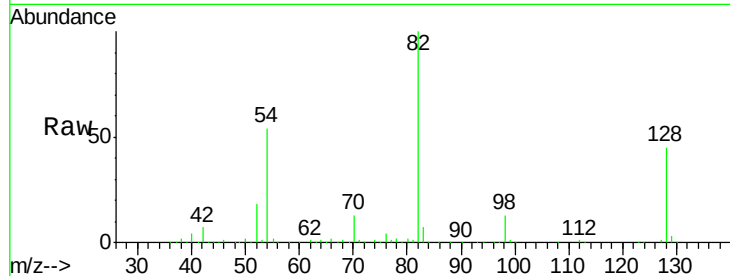
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 82 Resp: 1044870
Ion Ratio Lower Upper
82 100
128 44.9 34.2 51.2
54 53.7 38.6 58.0

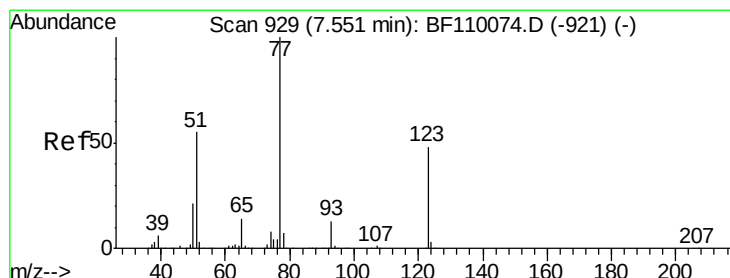
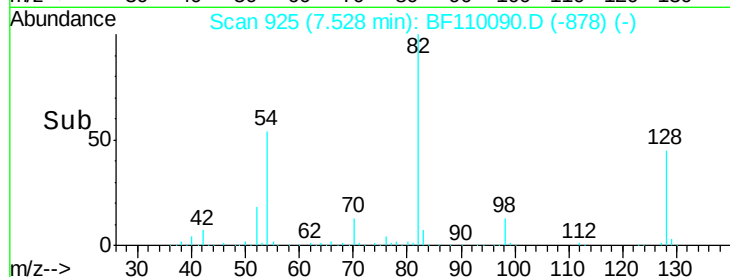
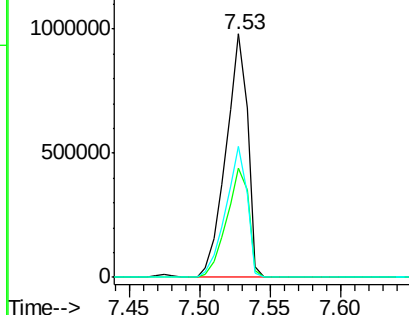
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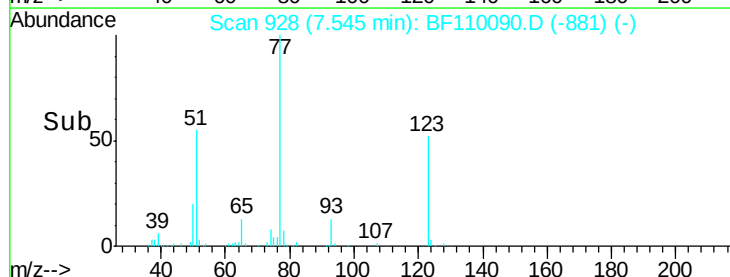
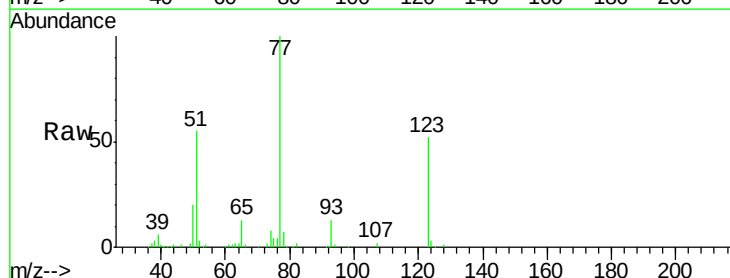
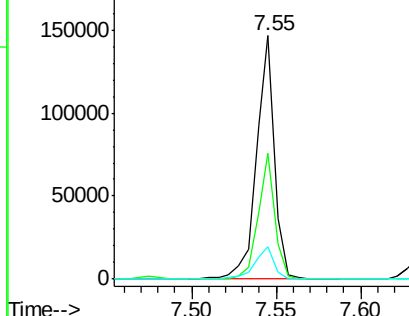
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

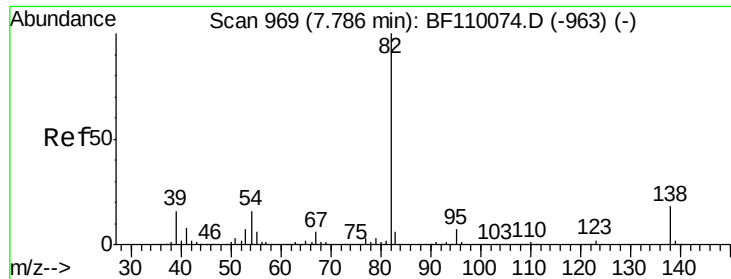


#24
Nitrobenzene
Concen: 8.363 ng
RT: 7.55 min Scan# 928
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion: 77 Resp: 109747
Ion Ratio Lower Upper
77 100
123 51.9 35.7 53.5
65 13.2 10.7 16.1

Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 123.00 (122.70 to 123.70): BF1
Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 9.199 ng

RT: 7.77 min Scan# 967

Delta R.T. -0.03 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

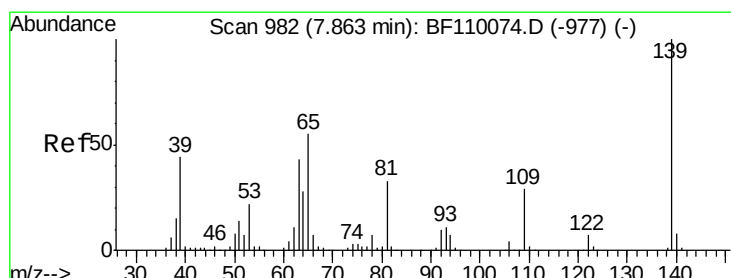
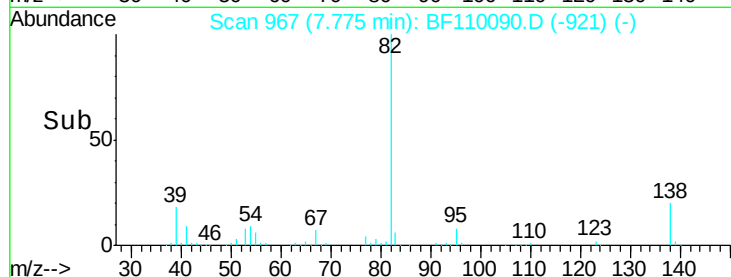
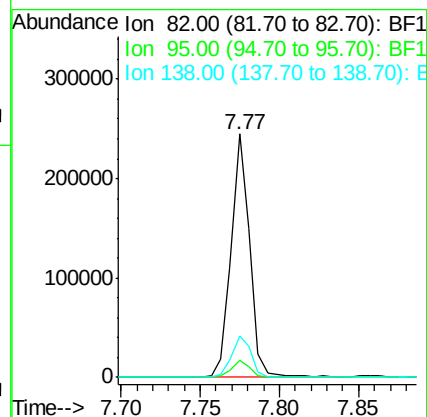
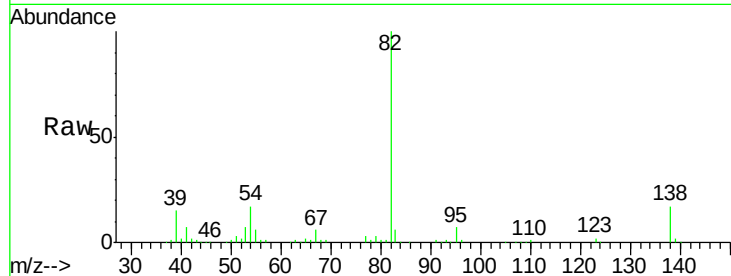
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	82	Resp:	199326
Ion Ratio		Lower	Upper
82	100		
95	6.8	5.7	8.5
138	16.9	13.2	19.8

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#26

2-Nitrophenol

Concen: 7.591 ng

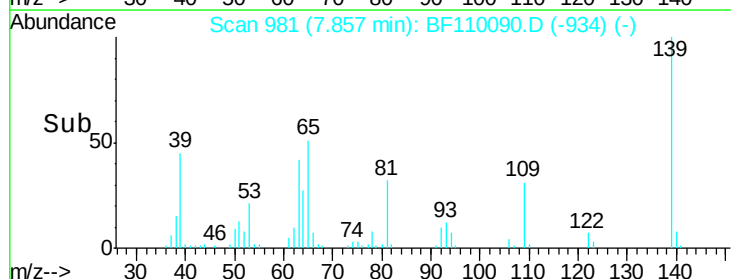
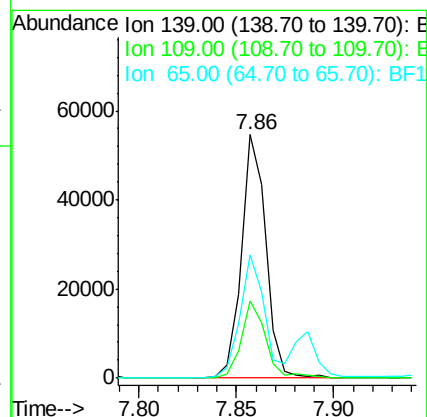
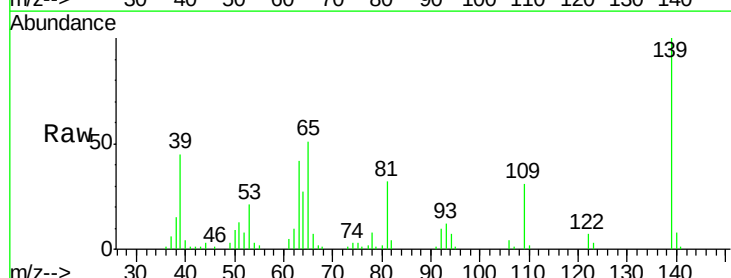
RT: 7.86 min Scan# 981

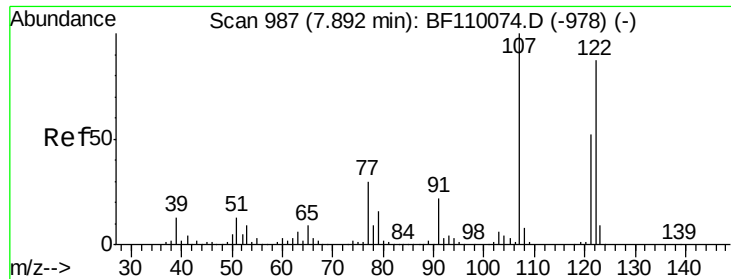
Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:	139	Resp:	47406
Ion Ratio		Lower	Upper
139	100		
109	31.5	25.0	37.6
65	50.5	44.0	66.0





#27
2,4-Dimethylphenol
Concen: 8.845 ng
RT: 7.89 min Scan# 986
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

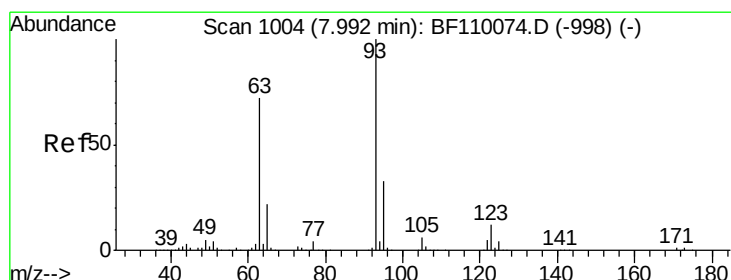
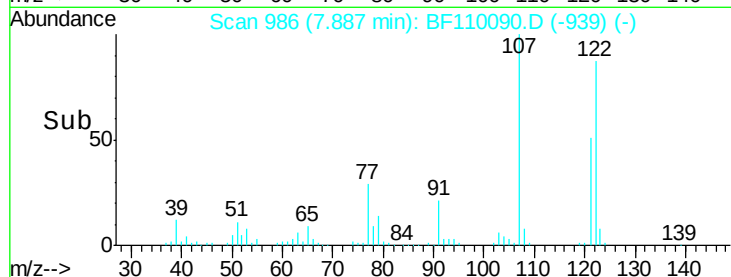
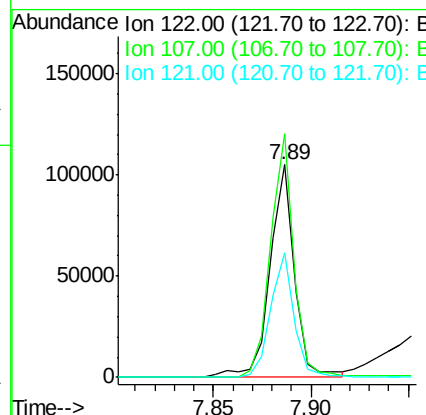
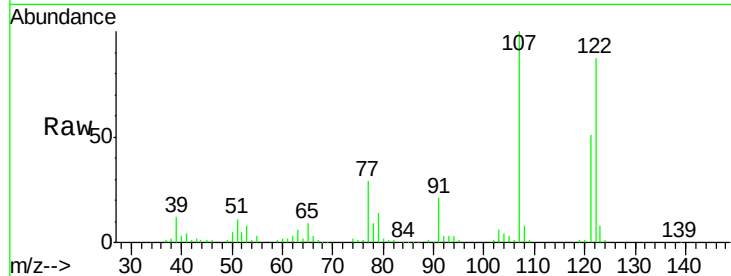
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 122 Resp: 91581
Ion Ratio Lower Upper
122 100
107 114.6 92.5 138.7
121 58.6 45.8 68.8

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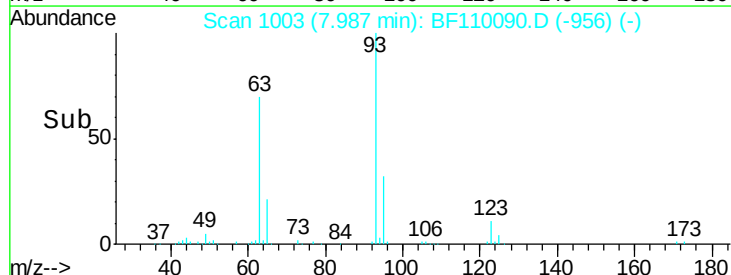
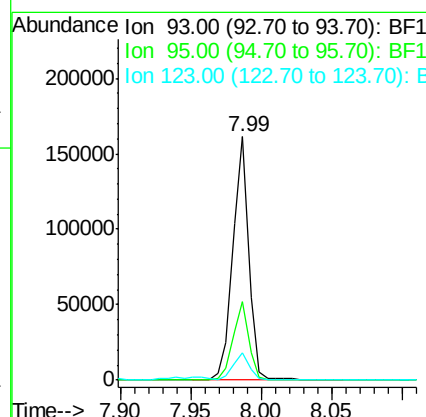
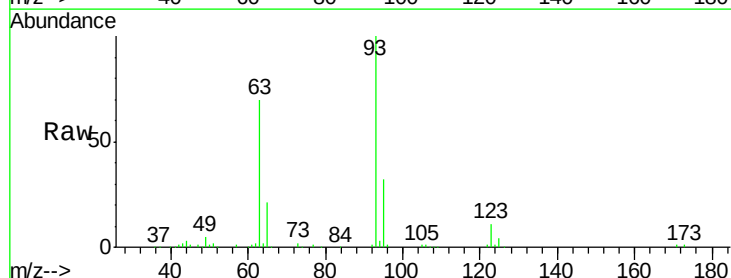
Sohil

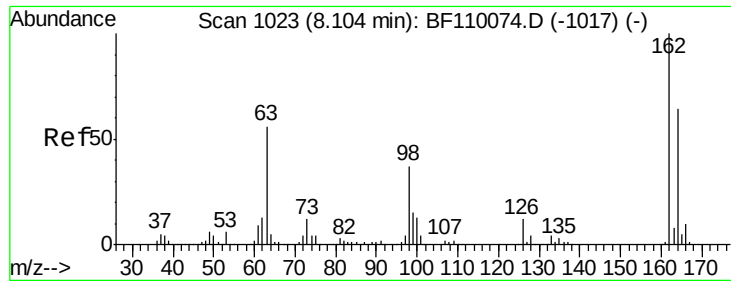
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#28
bis(2-Chloroethoxy)methane
Concen: 8.643 ng
RT: 7.99 min Scan# 1003
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion: 93 Resp: 127228
Ion Ratio Lower Upper
93 100
95 32.4 26.4 39.6
123 11.4 9.0 13.6





#29
2,4-Dichlorophenol
Concen: 8.248 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

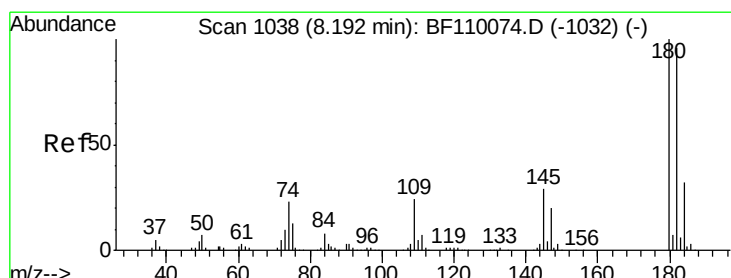
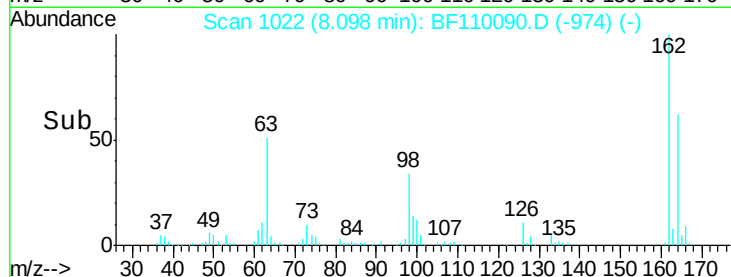
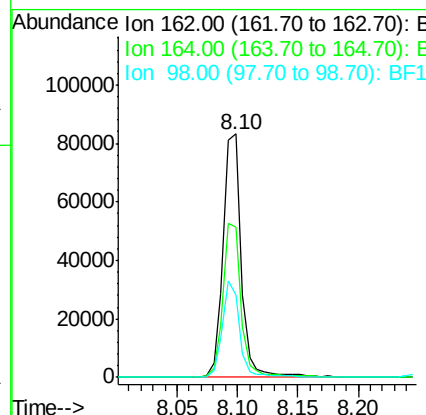
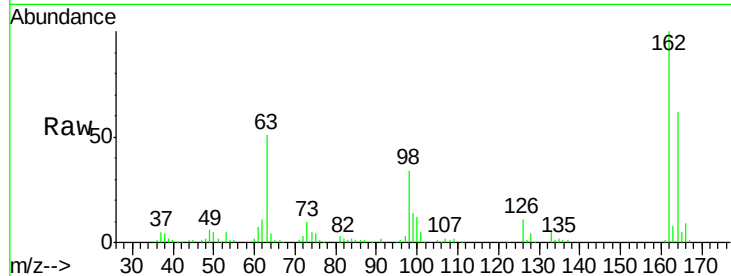
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
162	100		
164	61.6	44.6	84.6
98	33.8	17.4	57.4

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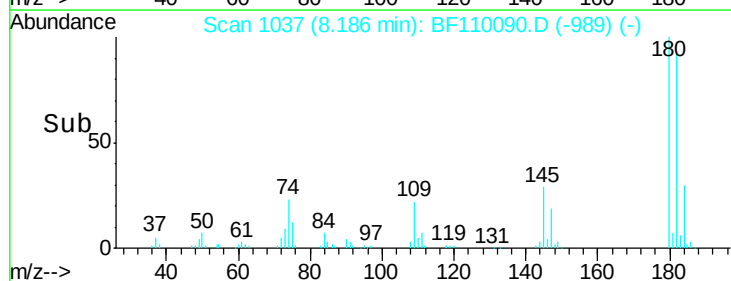
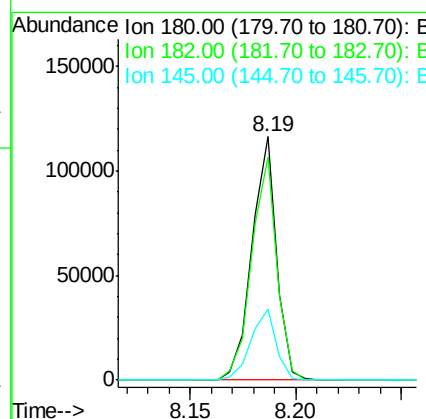
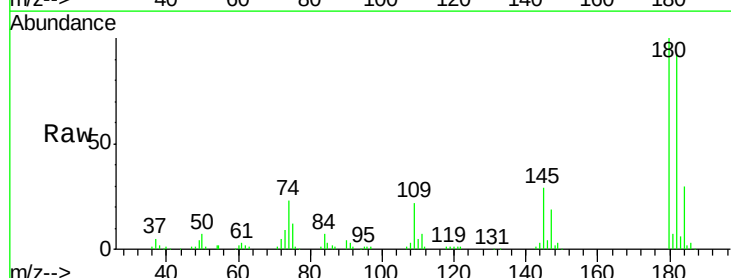
Sohil

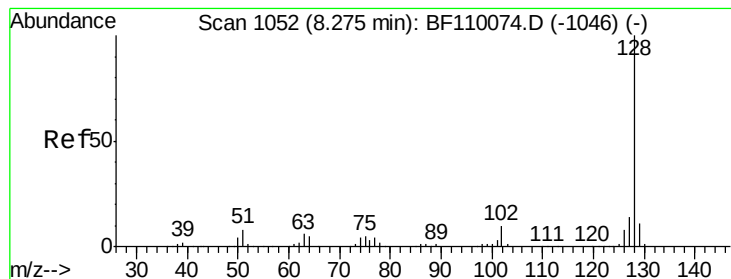
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#30
1,2,4-Trichlorobenzene
Concen: 8.073 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	91.8	80.3	120.5
145	29.0	25.4	38.0





#31

Naphthalene

Concen: 9.138 ng

RT: 8.27 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

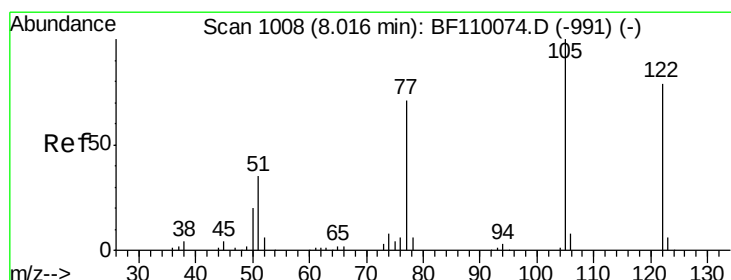
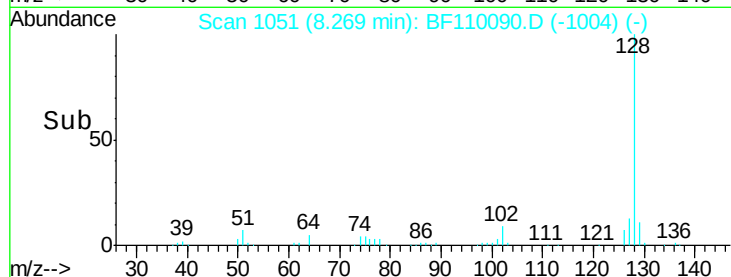
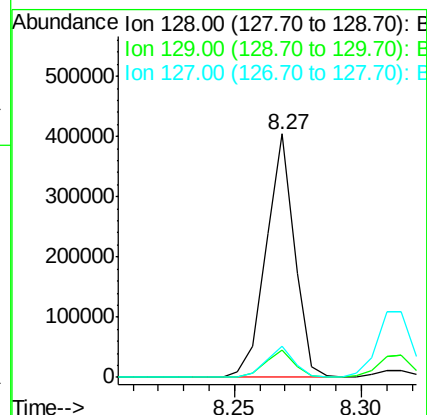
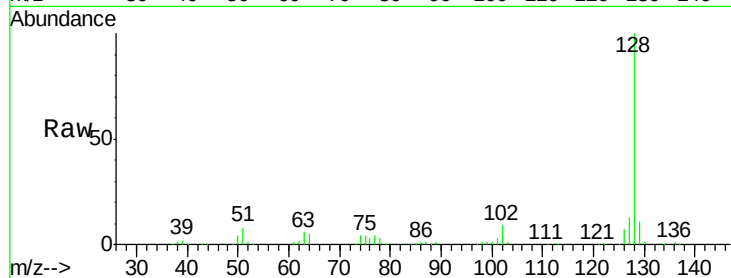
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Tgt Ion:	128	Resp:	317546
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	13.0	10.8	16.2

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#32

Benzoic acid

Concen: 5.021 ng

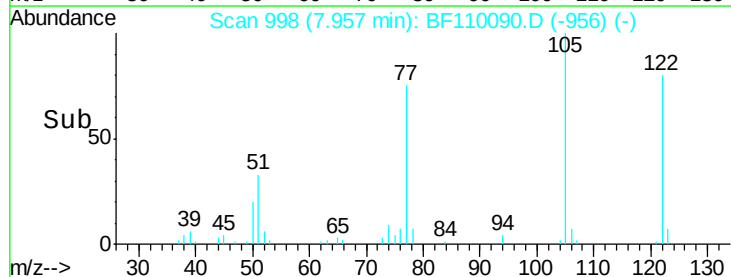
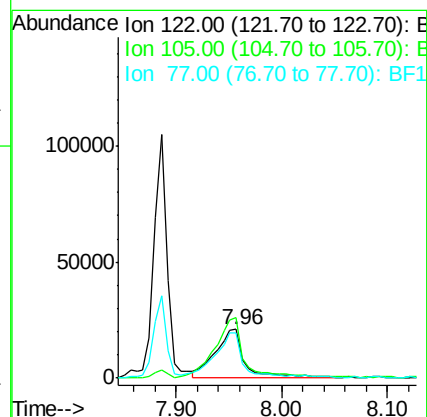
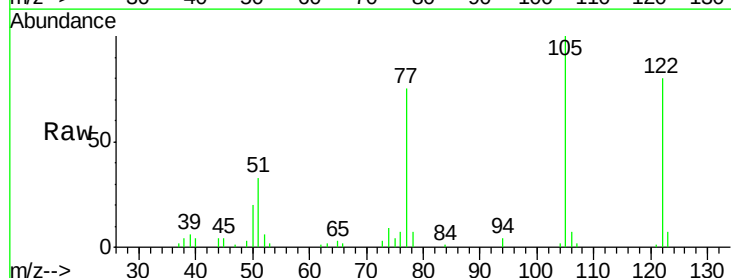
RT: 7.96 min Scan# 998

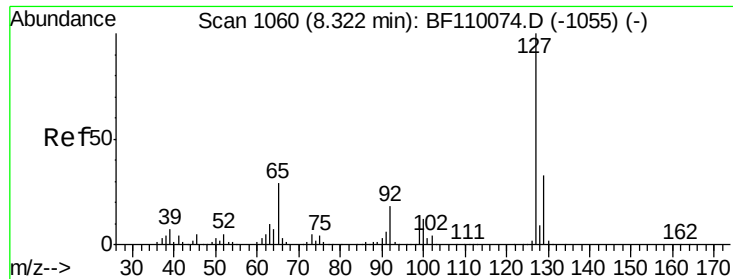
Delta R.T. -0.05 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:	122	Resp:	40179
Ion Ratio	Lower	Upper	
122	100		
105	125.1	109.0	149.0
77	94.1	79.0	119.0





#33
4-Chloroaniline
Concen: 7.104 ng
RT: 8.32 min Scan# 1059
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

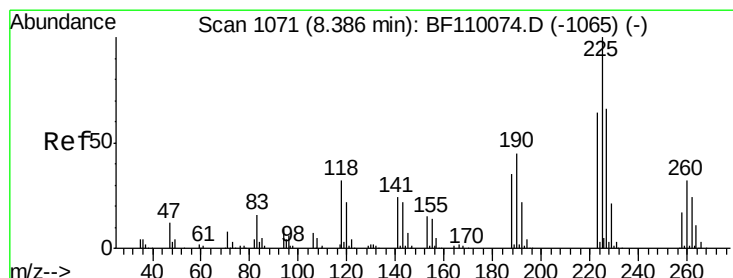
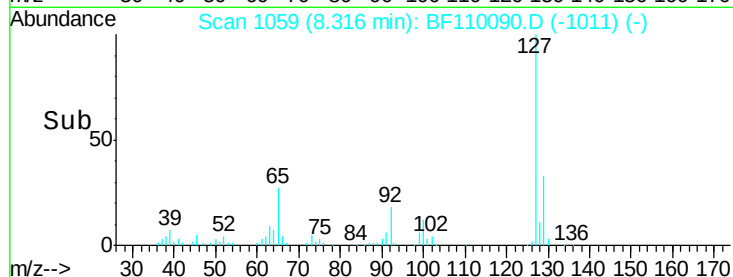
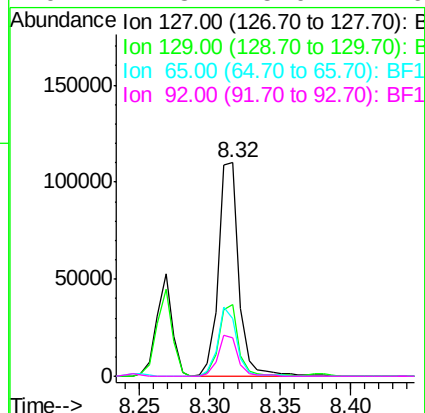
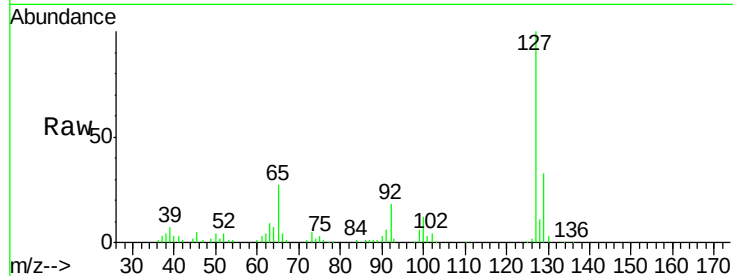
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
127	100	111096		
129	33.3	26.0	39.0	
65	27.2	25.1	37.7	
92	17.8	15.0	22.6	

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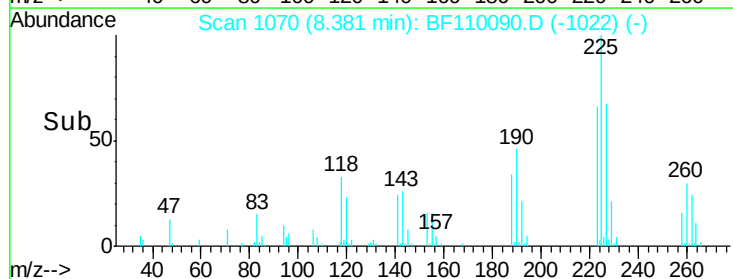
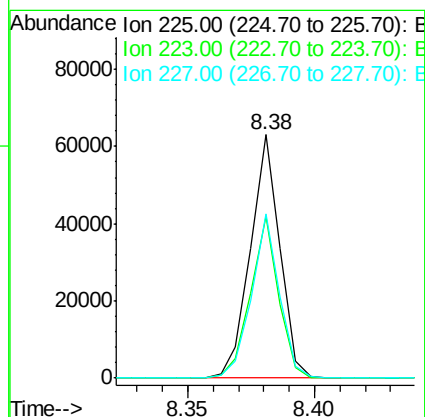
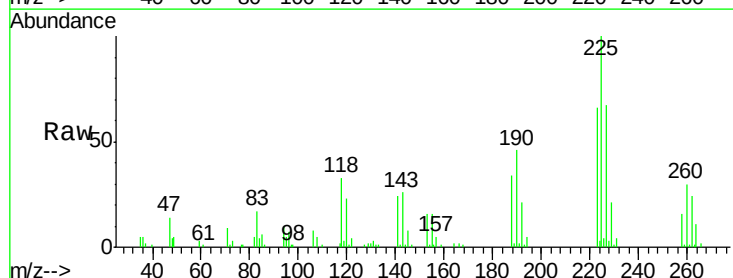
Sohil

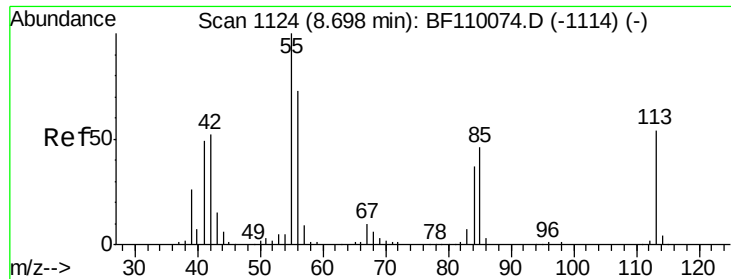
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#34
Hexachlorobutadiene
Concen: 7.835 ng
RT: 8.38 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50975		
223	66.3	51.4	77.2	
227	67.5	51.0	76.6	





#35
 Caprolactam
 Concen: 7.388 ng
 RT: 8.65 min Scan# 1116
 Delta R.T. -0.06 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

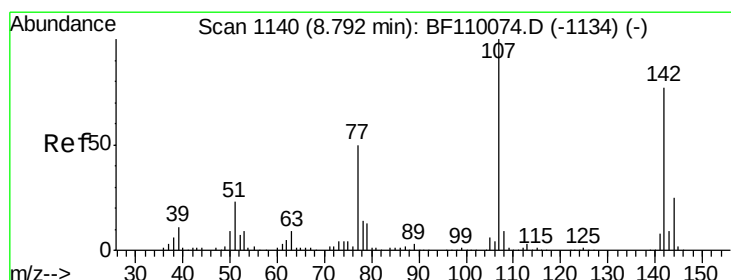
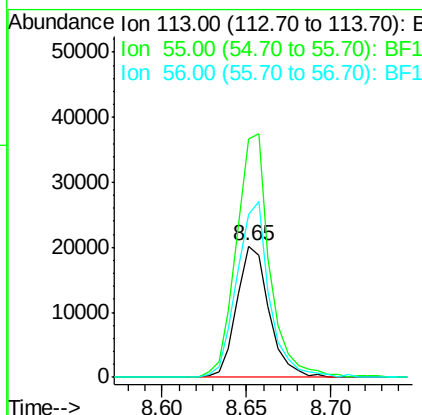
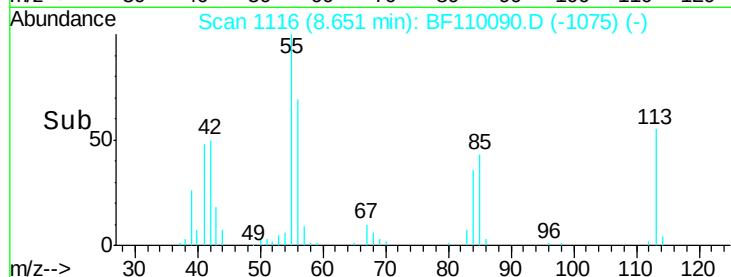
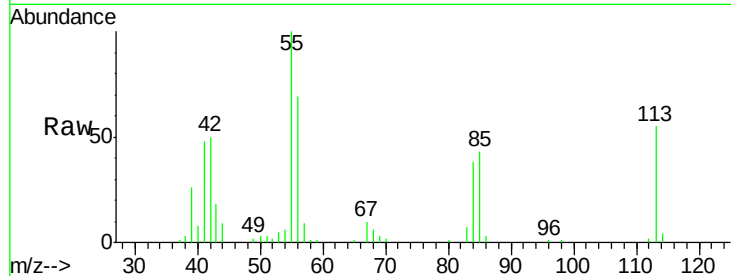
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
113	100		
55	181.7	142.8	182.8
56	124.6	105.0	145.0

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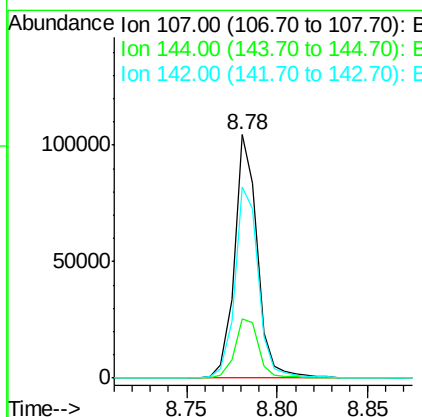
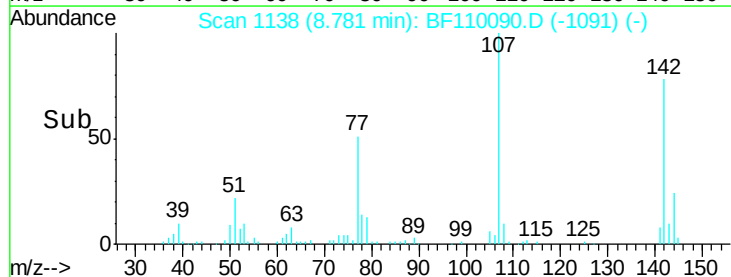
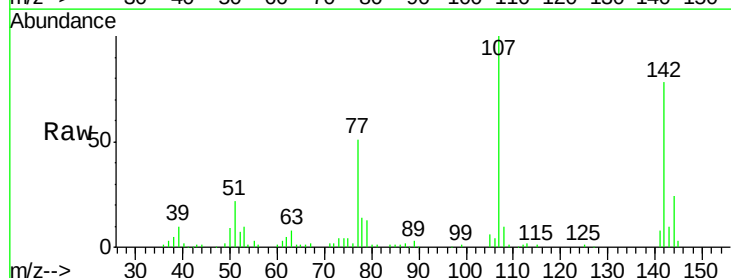
Sohil

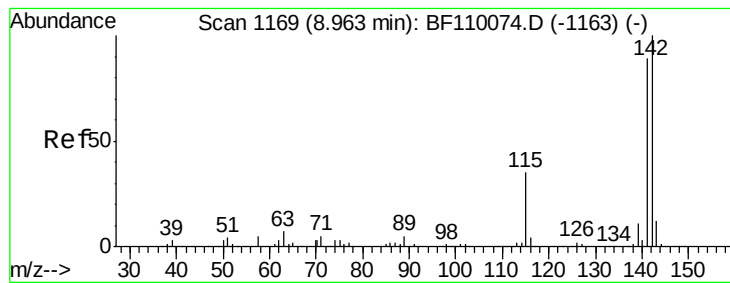
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#36
 4-Chloro-3-methylphenol
 Concen: 8.150 ng
 RT: 8.78 min Scan# 1138
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
107	100		
144	24.4	20.0	30.0
142	78.4	59.7	89.5





#37
2-Methylnaphthalene
Concen: 9.471 ng
RT: 8.96 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

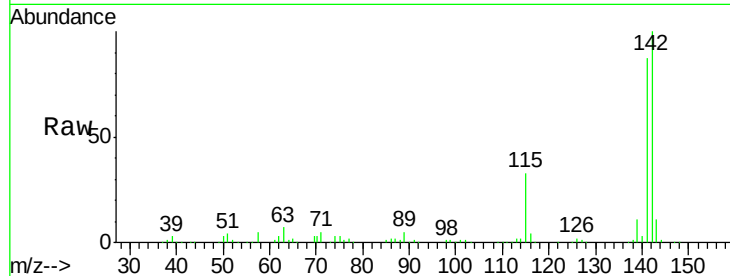
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:142 Resp: 217739
Ion Ratio Lower Upper
142 100
141 86.9 71.4 107.2
115 32.9 28.7 43.1

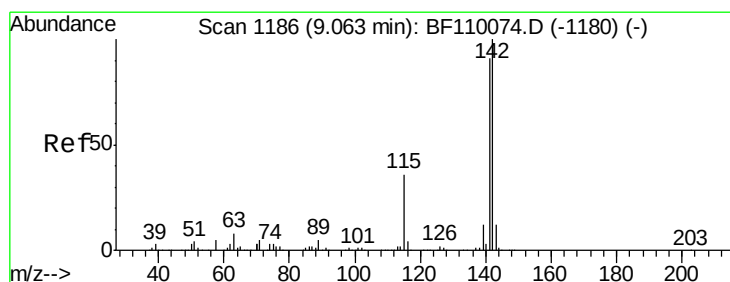
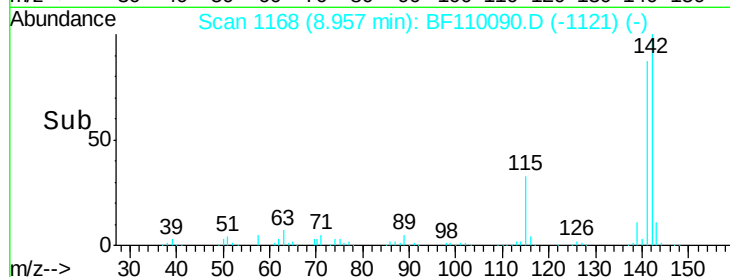
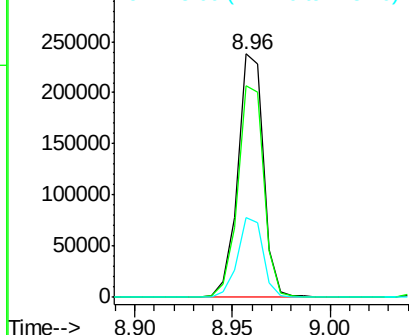
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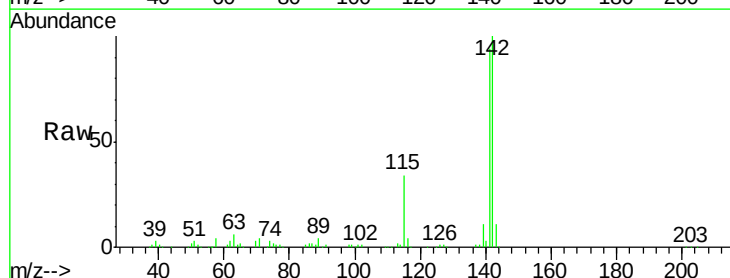


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

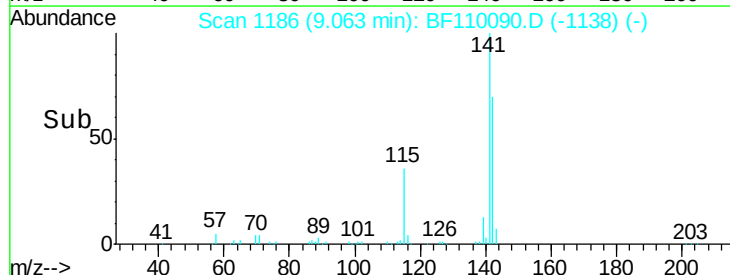
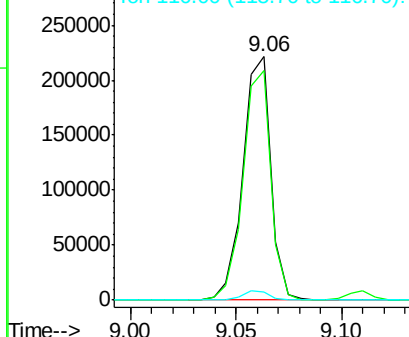


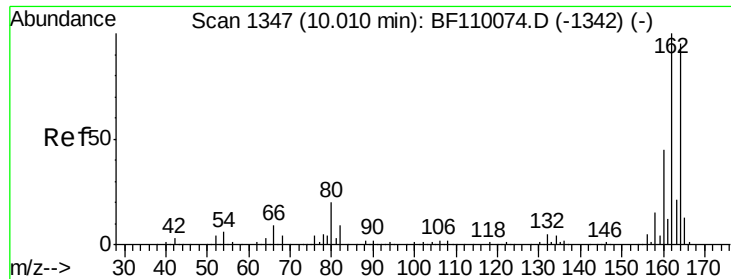
#38
1-Methylnaphthalene
Concen: 9.119 ng
RT: 9.06 min Scan# 1186
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:142 Resp: 202611
Ion Ratio Lower Upper
142 100
141 94.3 74.2 111.4
116 3.5 2.6 4.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.02 min

Lab File: BF110090.D

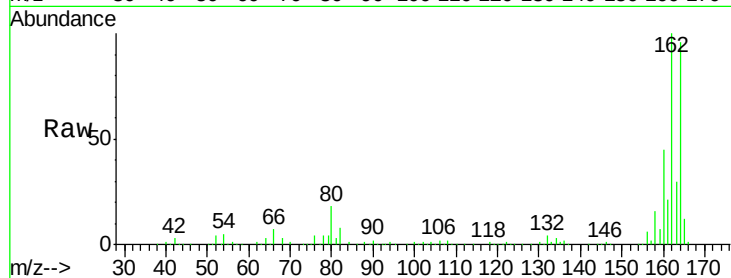
Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



Tgt Ion:164 Resp: 370615

Ion Ratio Lower Upper

164 100

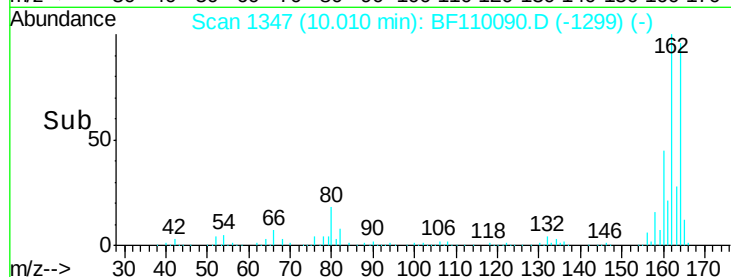
162 104.0 83.0 124.6

160 46.5 37.0 55.6

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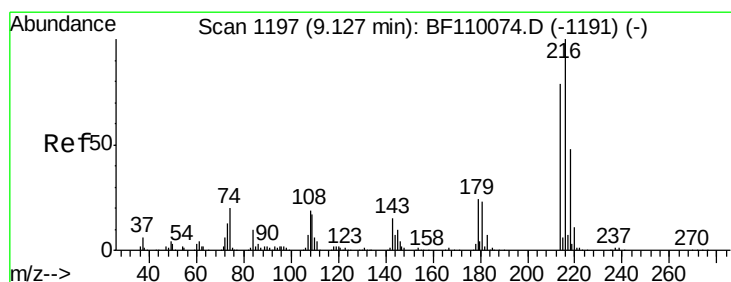
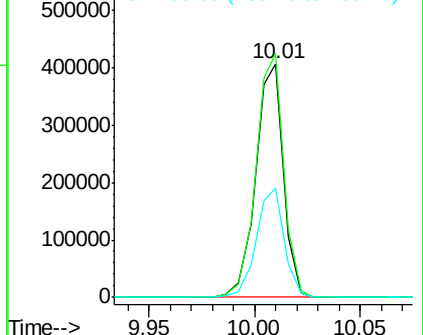
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

1,2,4,5-Tetrachlorobenzene

Concen: 7.883 ng

RT: 9.12 min Scan# 1196

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:216 Resp: 91035

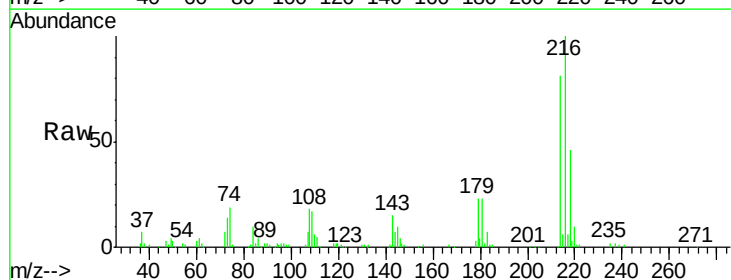
Ion Ratio Lower Upper

216 100

214 79.5 63.8 95.6

179 22.3 16.6 25.0

108 19.4 15.1 22.7

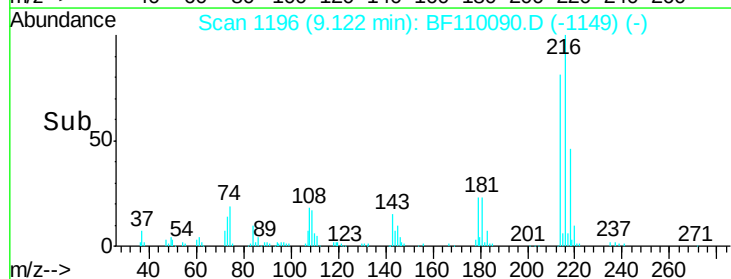
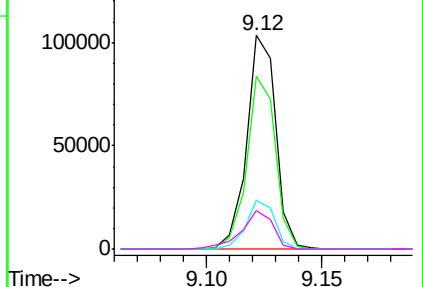


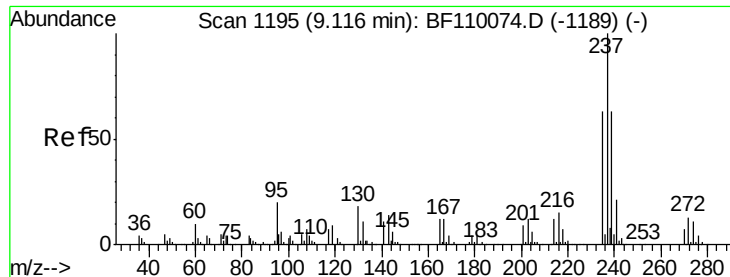
Abundance Ion 216.00 (215.70 to 216.70): E

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
Hexachlorocyclopentadiene
Concen: 7.903 ng
RT: 9.11 min Scan# 1194
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

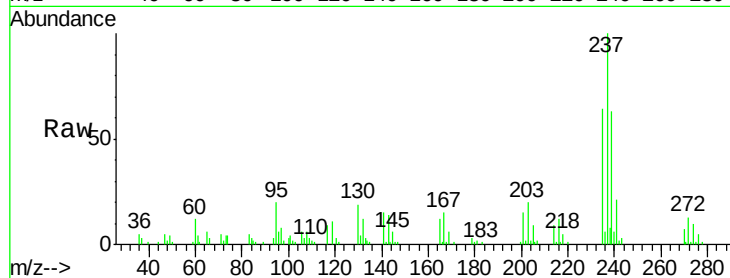
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
237	100		
235	64.3	43.1	83.1
272	12.5	0.0	32.6

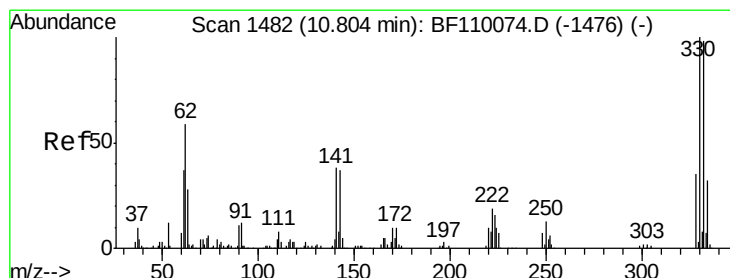
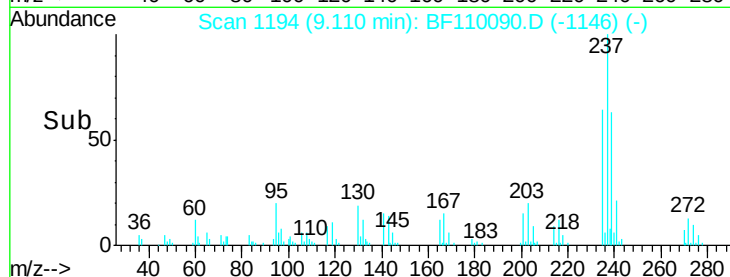
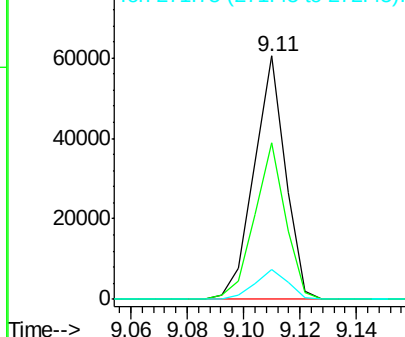
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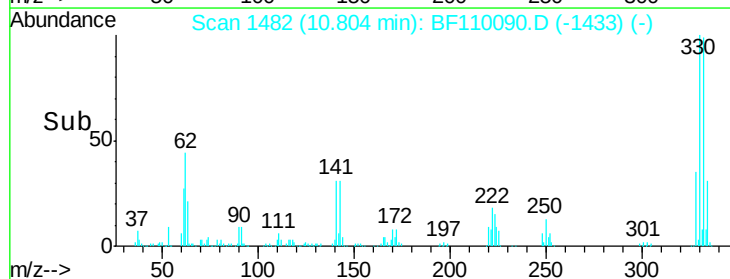
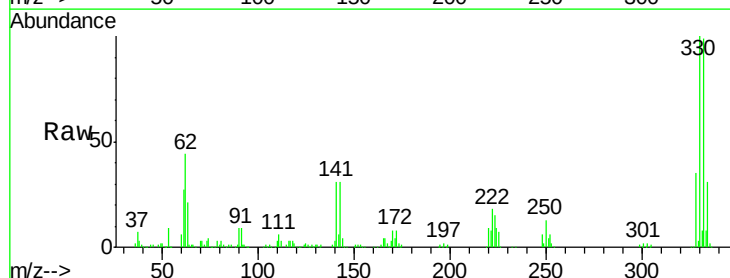
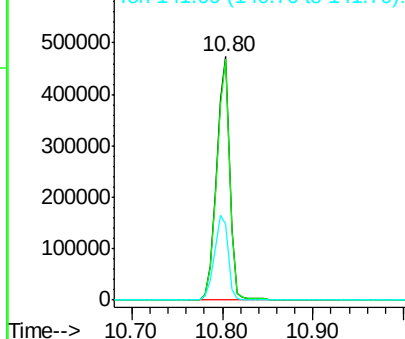
Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E

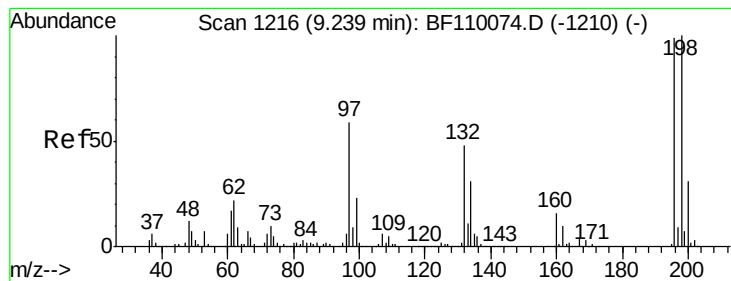


#42
2,4,6-Tribromophenol
Concen: 127.931 ng
RT: 10.80 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	97.3	77.1	115.7
141	37.3	27.0	40.4

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





#43
 2,4,6-Trichlorophenol
 Concen: 7.925 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

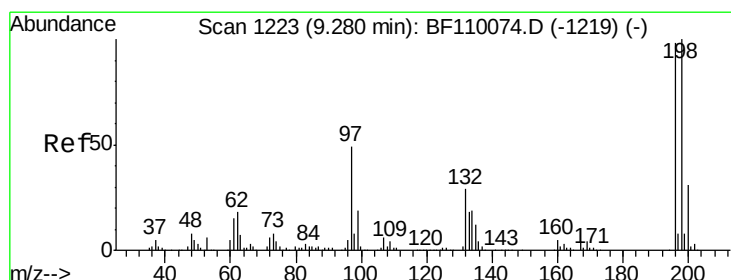
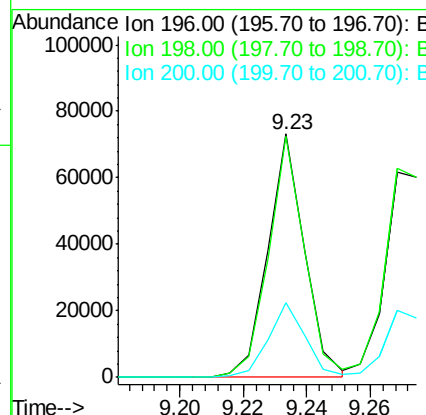
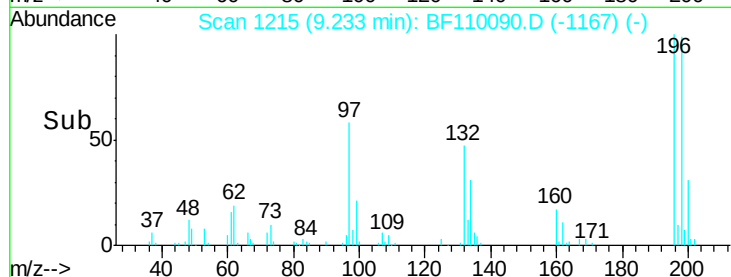
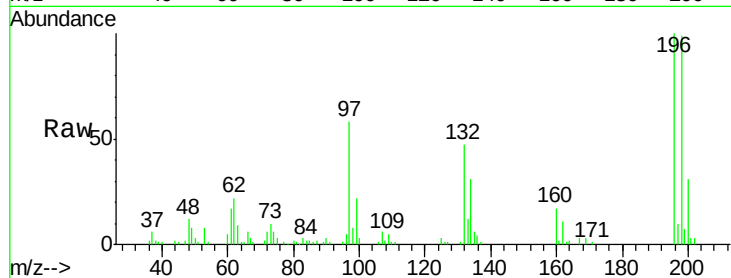
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	59028		
198	98.8	76.2	114.4	
200	30.5	24.4	36.6	

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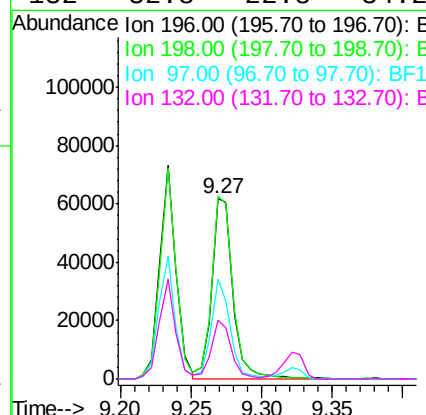
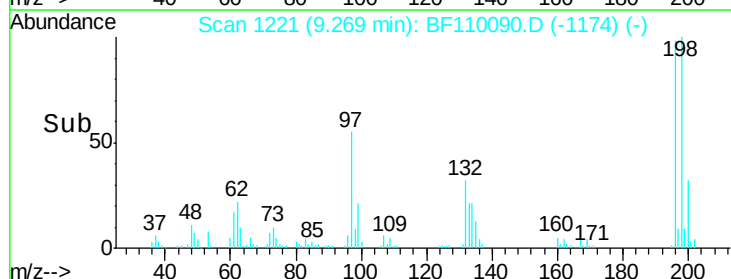
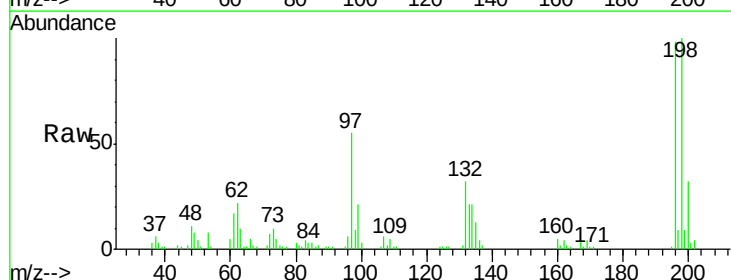
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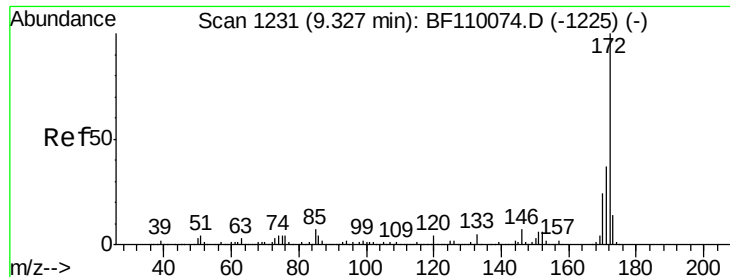
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#44
 2,4,5-Trichlorophenol
 Concen: 8.193 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	64499		
198	101.6	75.8	113.6	
97	55.5	42.4	63.6	
132	32.8	22.8	34.2	





#45
2-Fluorobiphenyl
Concen: 80.012 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

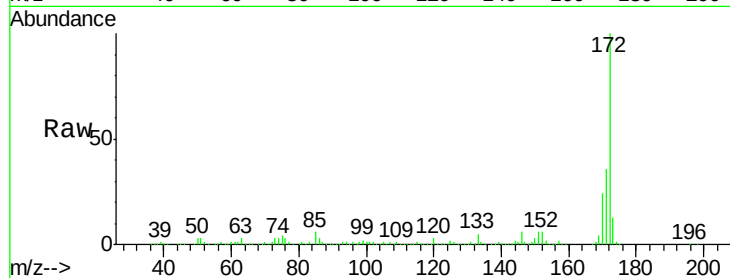
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:172 Resp: 1888452
Ion Ratio Lower Upper
172 100
171 36.4 28.6 43.0
170 24.0 19.7 29.5

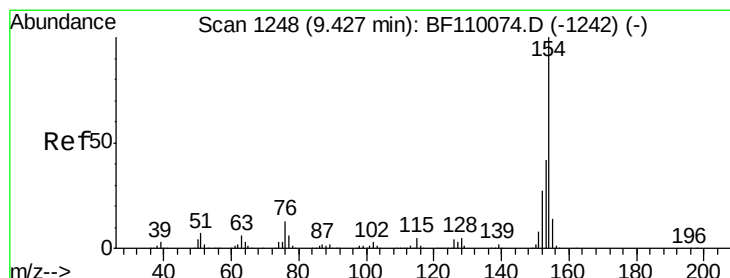
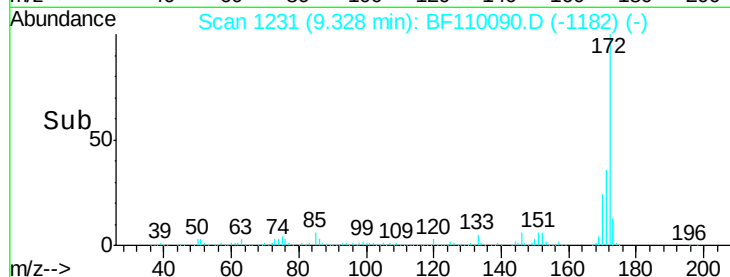
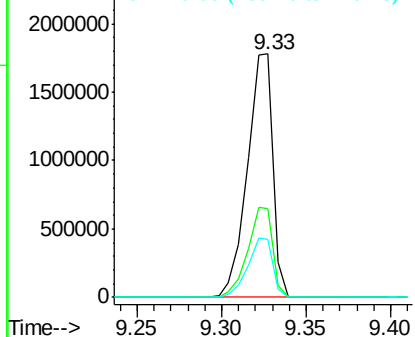
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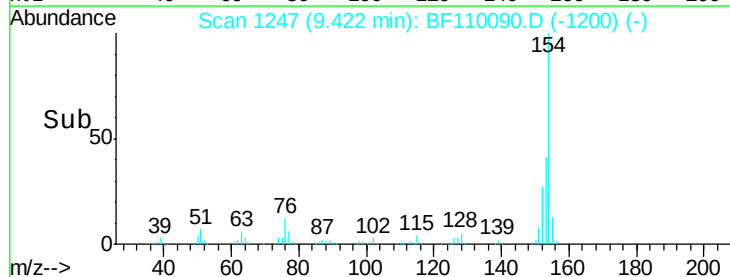
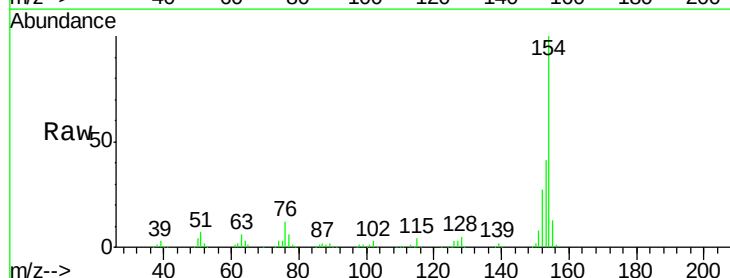
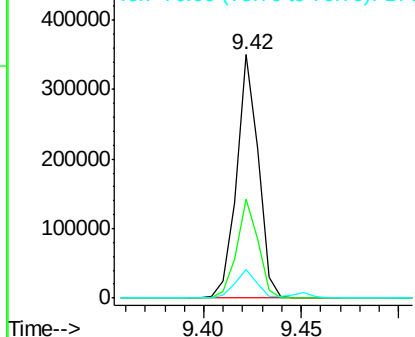
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

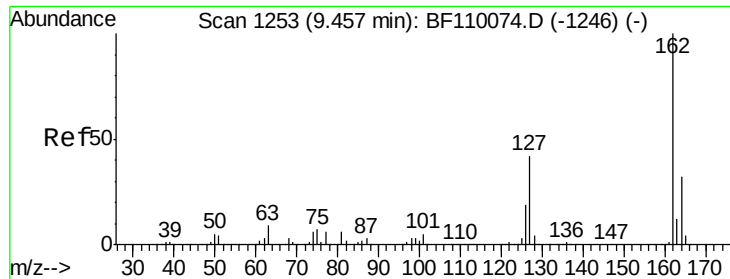


#46
1,1'-Biphenyl
Concen: 8.037 ng
RT: 9.42 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:154 Resp: 269357
Ion Ratio Lower Upper
154 100
153 40.5 20.4 60.4
76 11.9 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): BF1





#47
 2-Chloronaphthalene
 Concen: 8.392 ng
 RT: 9.45 min Scan# 1252
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

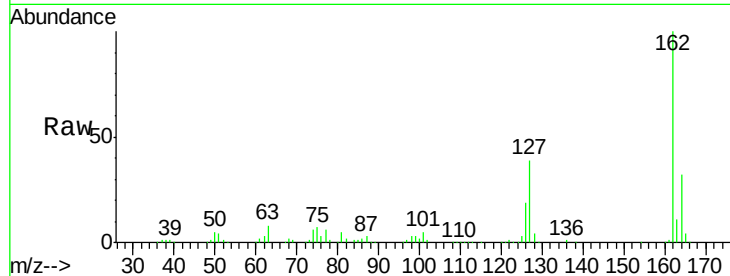
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
162	100		
127	38.7	32.6	48.8
164	31.6	25.9	38.9

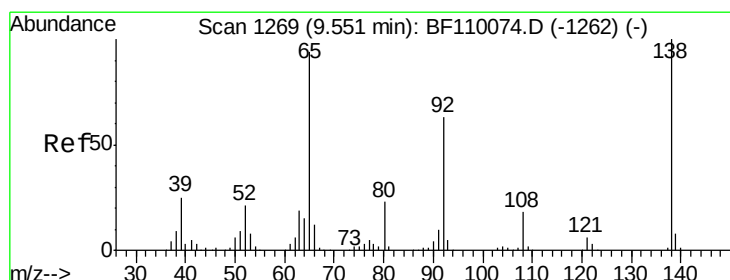
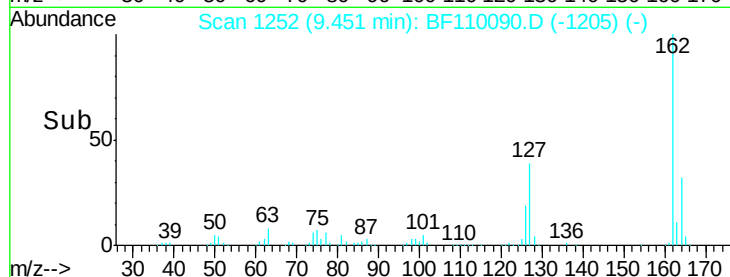
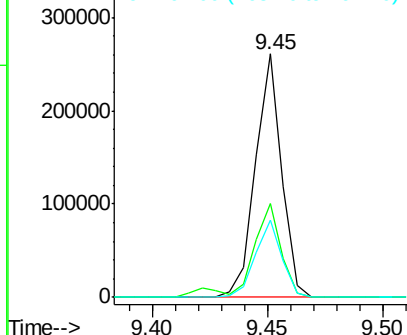
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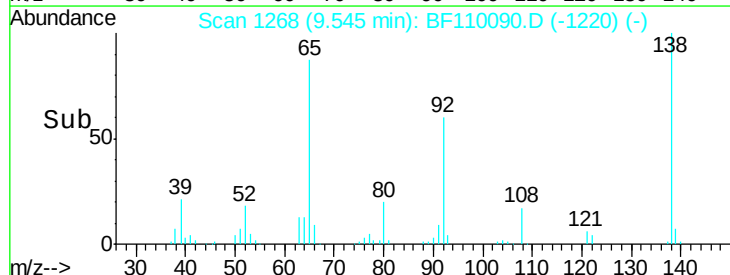
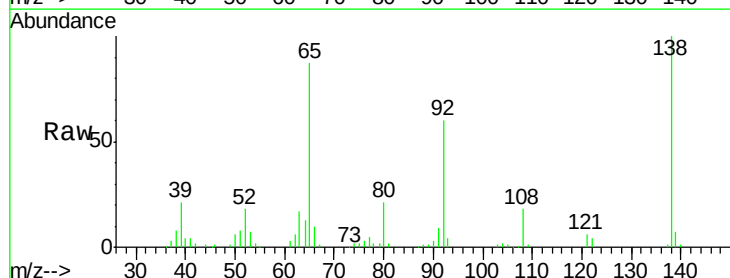
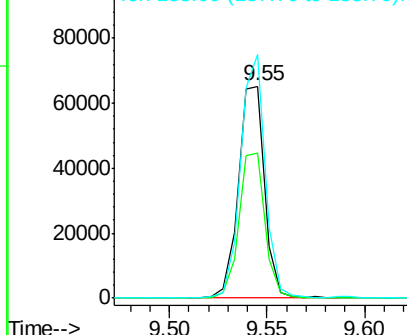
Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

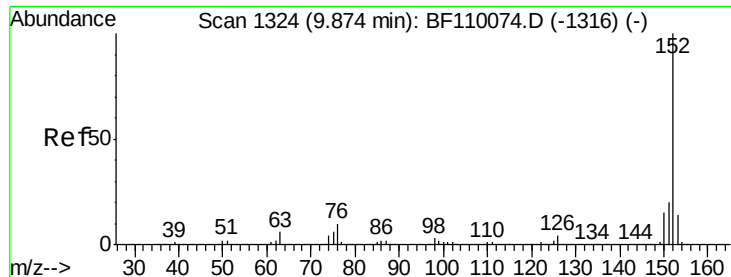


#48
 2-Nitroaniline
 Concen: 8.157 ng
 RT: 9.55 min Scan# 1268
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
65	100		
92	68.5	54.6	81.8
138	114.8	80.3	120.5

Abundance Ion 65.00 (64.70 to 65.70): BF1
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 9.070 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF110090.D

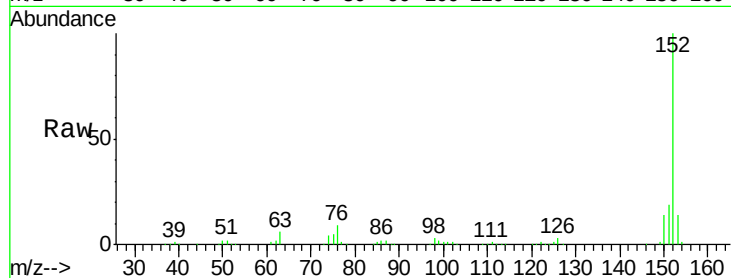
Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



Tgt Ion:152 Resp: 322060

Ion Ratio Lower Upper

152 100

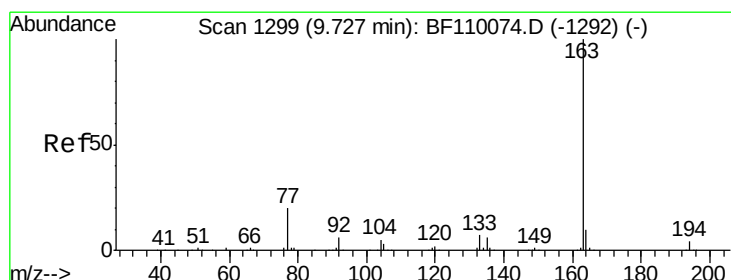
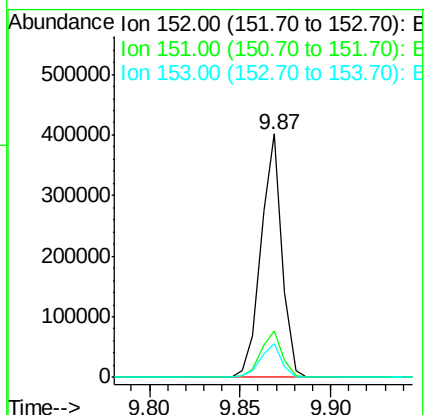
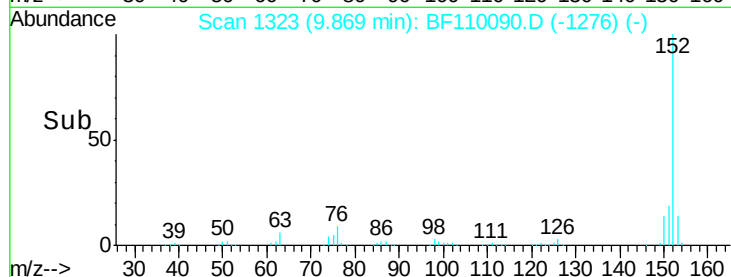
151 19.0 15.8 23.8

153 13.7 10.4 15.6

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#50

Dimethylphthalate

Concen: 8.482 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

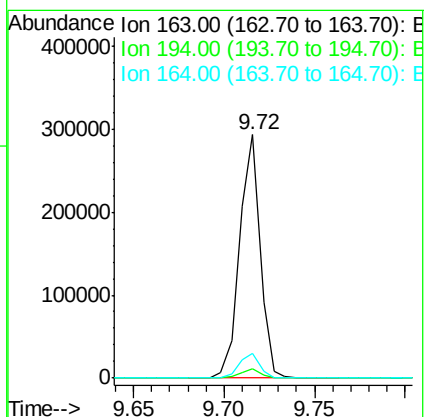
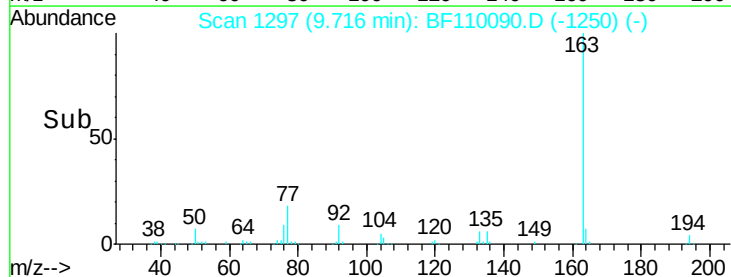
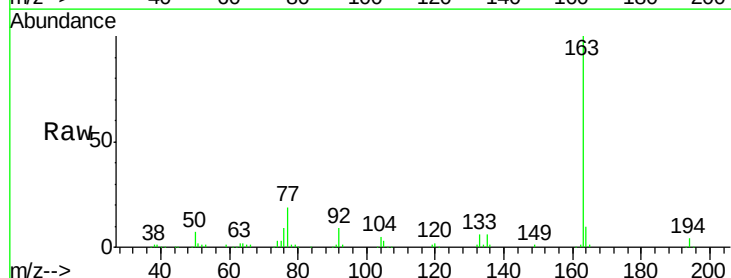
Tgt Ion:163 Resp: 232059

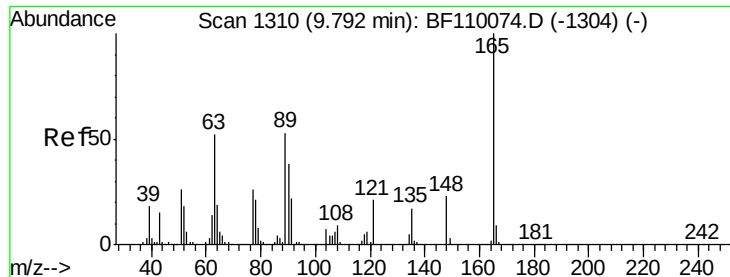
Ion Ratio Lower Upper

163 100

194 4.0 3.2 4.8

164 10.2 8.1 12.1





#51
2,6-Dinitrotoluene
Concen: 8.415 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

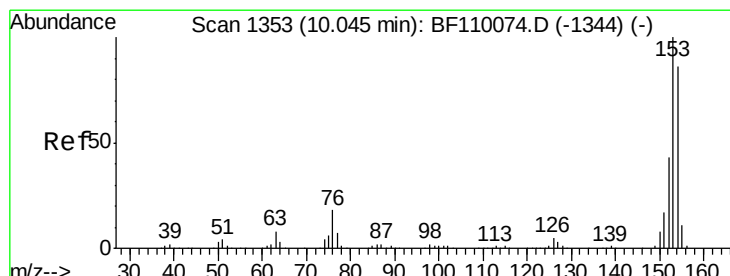
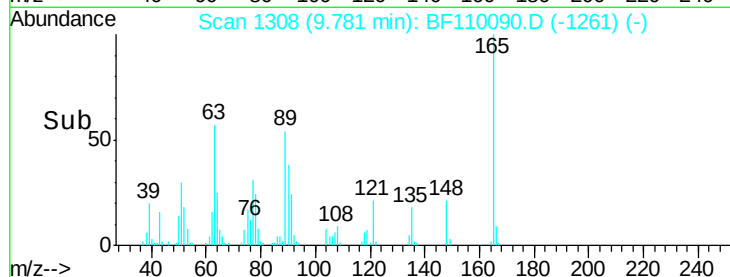
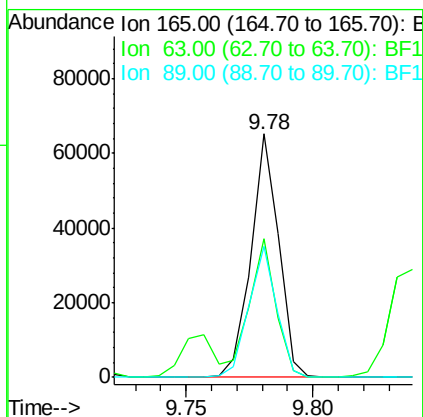
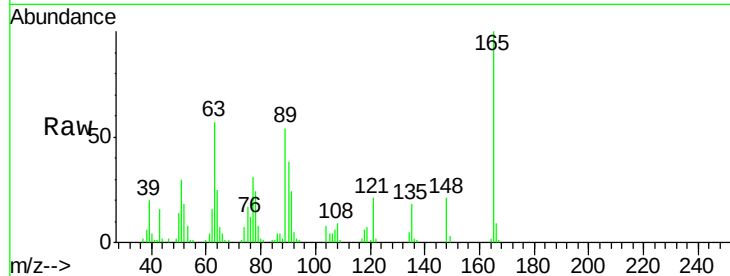
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	165	Resp:	49587
Ion Ratio	Lower	Upper	
165	100		
63	56.7	48.9	73.3
89	53.8	46.6	69.8

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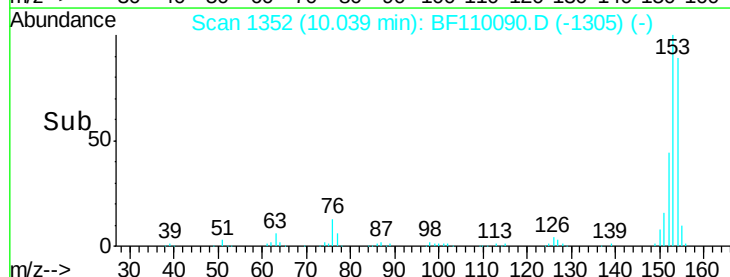
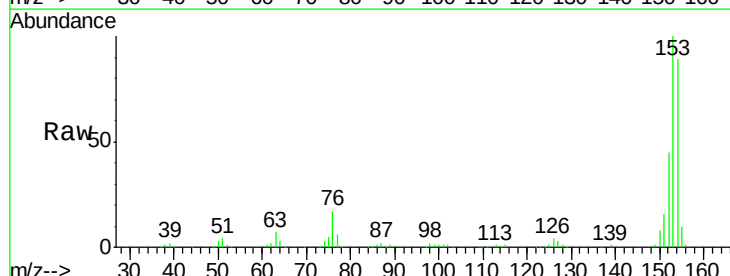
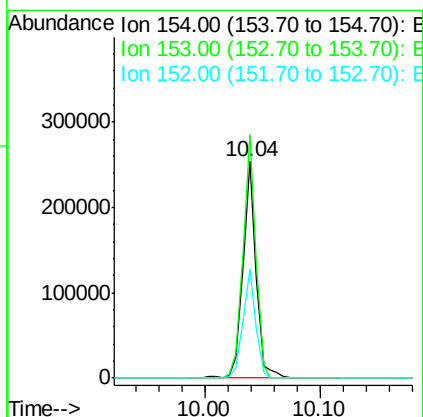
Sohil

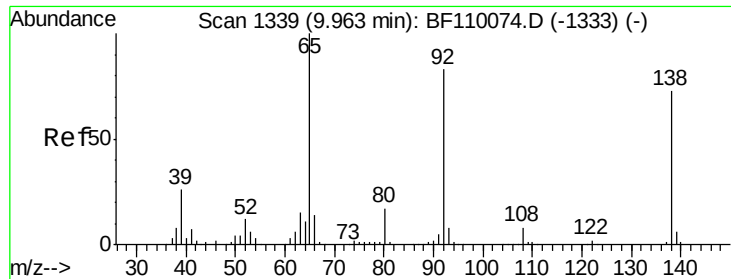
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#52
Acenaphthene
Concen: 8.632 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:	154	Resp:	202777
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.1	135.1
152	50.3	43.4	65.2





#53
3-Nitroaniline
Concen: 6.948 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

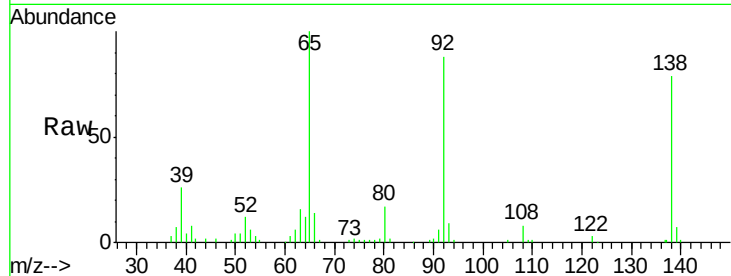
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:138 Resp: 48693
Ion Ratio Lower Upper
138 100
108 10.5 8.7 13.1
92 111.8 97.0 145.4

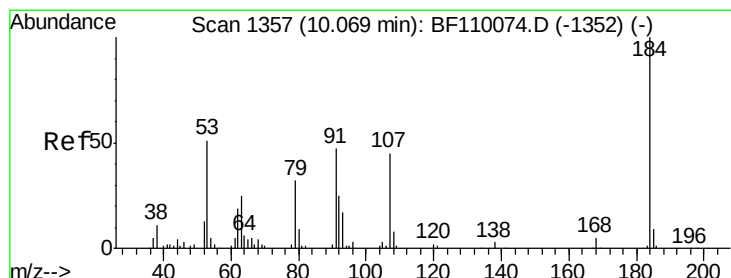
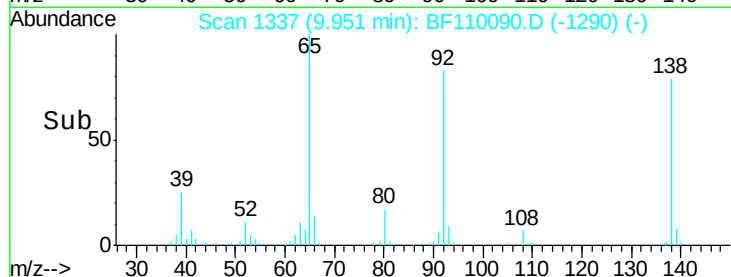
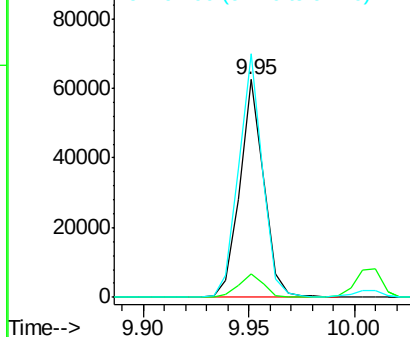
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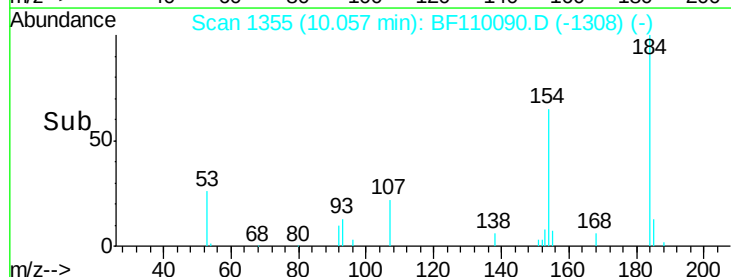
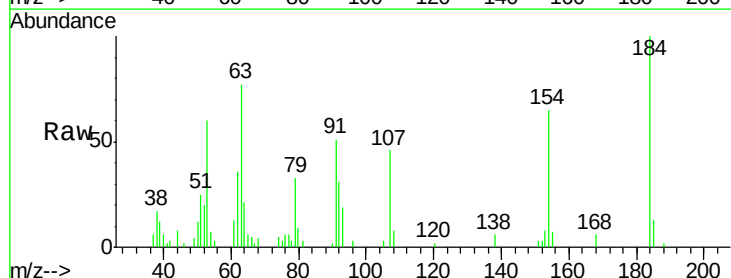
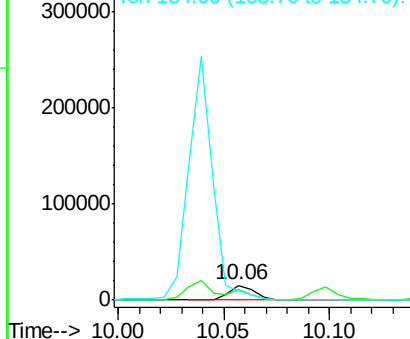
Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BF1

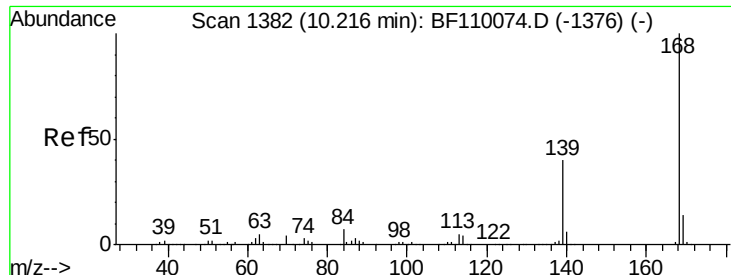


#54
2,4-Dinitrophenol
Concen: 10.473 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:184 Resp: 13249
Ion Ratio Lower Upper
184 100
63 76.9 55.8 83.6
154 65.1 63.2 94.8

Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E





#55
Dibenzenofuran
Concen: 8.573 ng
RT: 10.21 min Scan# 1381
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

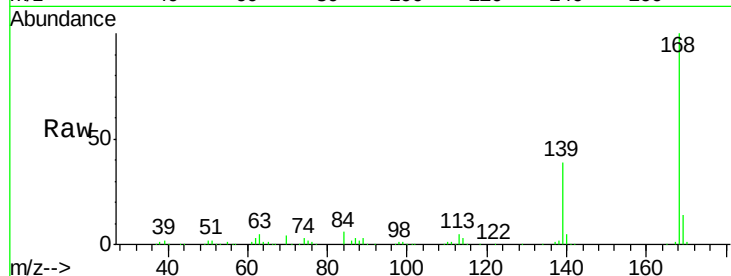
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	281943		
139	38.6	33.0	49.6	
169	13.8	11.3	16.9	

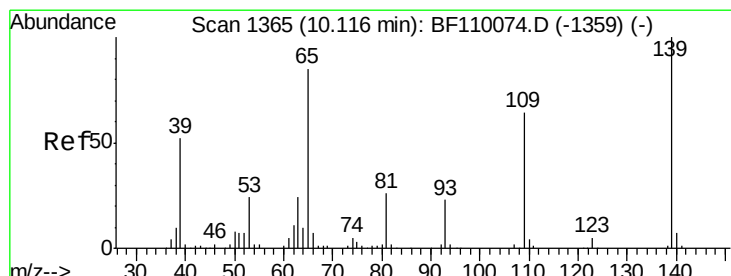
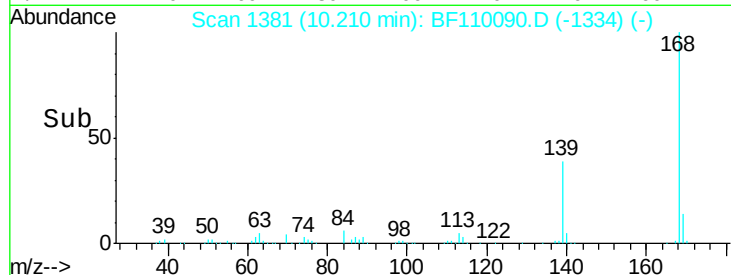
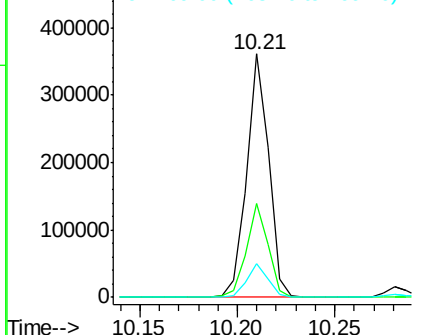
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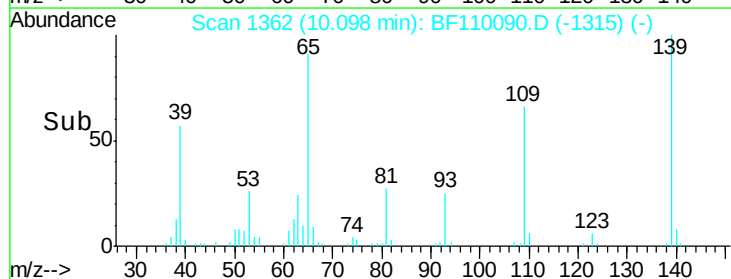
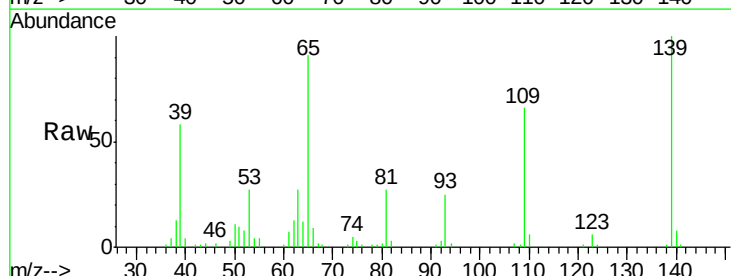
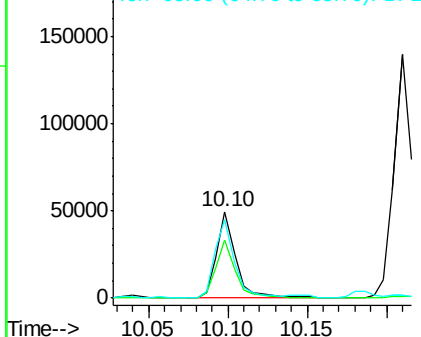
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

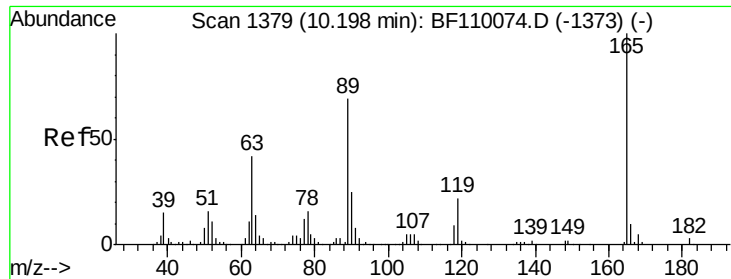


#56
4-Nitrophenol
Concen: 8.077 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	41895		
109	66.5	55.8	95.8	
65	90.9	77.9	117.9	

Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1





#57
2,4-Dinitrotoluene
Concen: 8.731 ng
RT: 10.19 min Scan# 1377
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

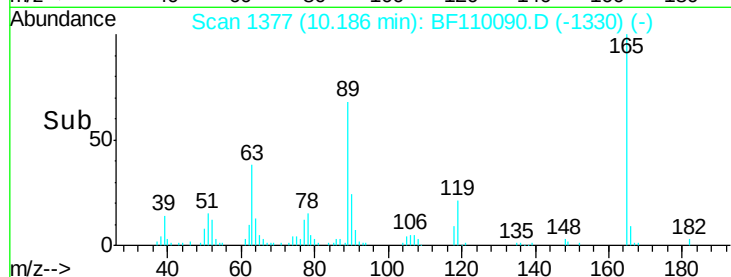
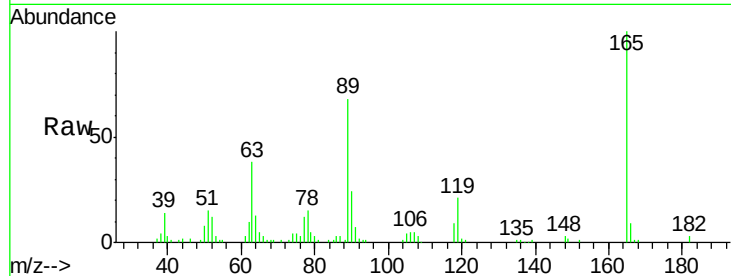
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
165	100		
63	38.0	44.8	67.2#
89	67.5	62.2	93.4
182	2.5	2.1	3.1

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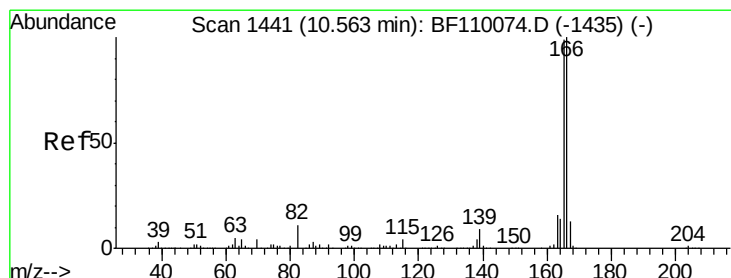
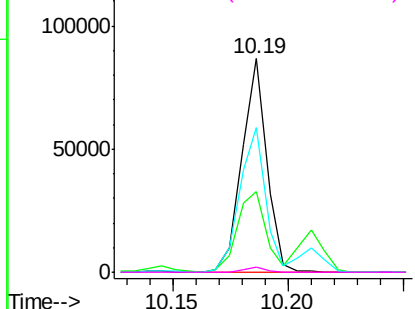


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

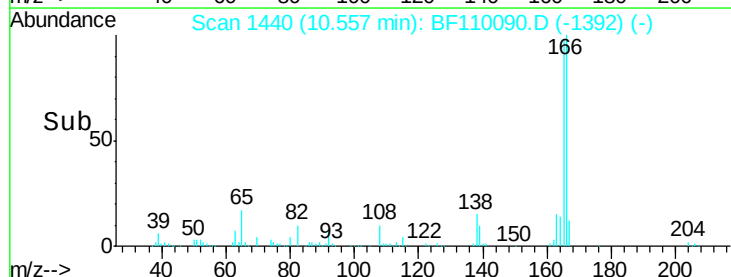
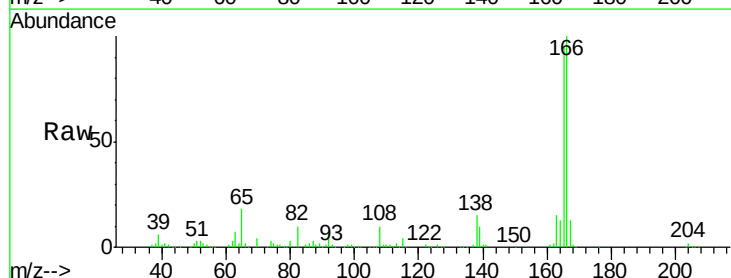
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#58
Fluorene
Concen: 9.356 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

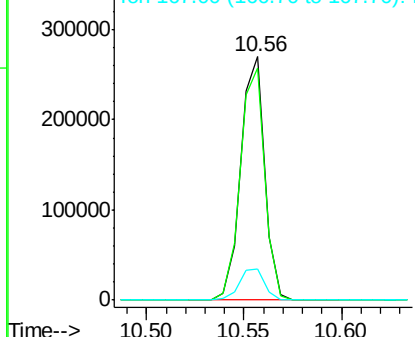
Tgt Ion	Ratio	Resp Lower	Resp Upper
166	100		
165	95.2	78.6	117.8
167	12.7	10.8	16.2

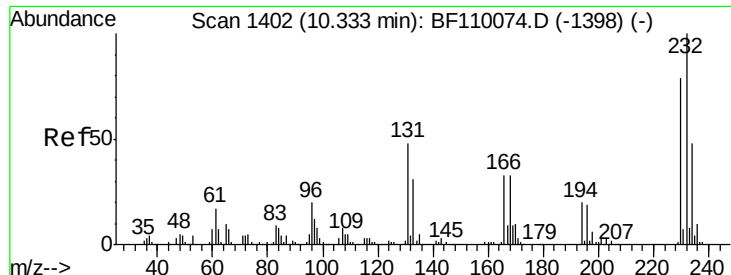


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#59
 2,3,4,6-Tetrachlorophenol
 Concen: 7.990 ng m
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

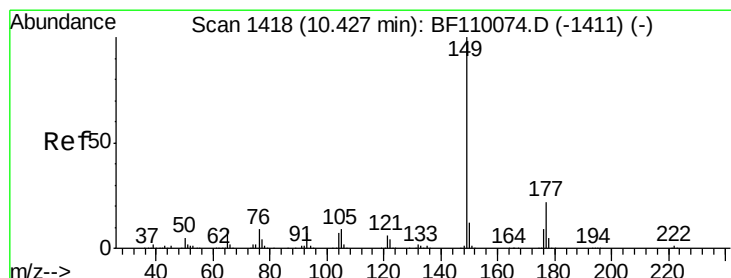
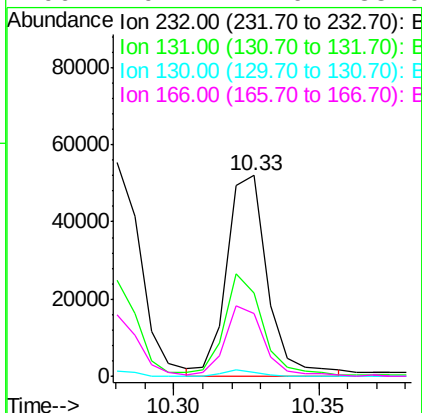
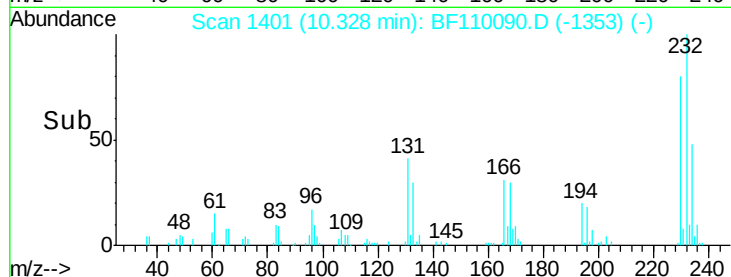
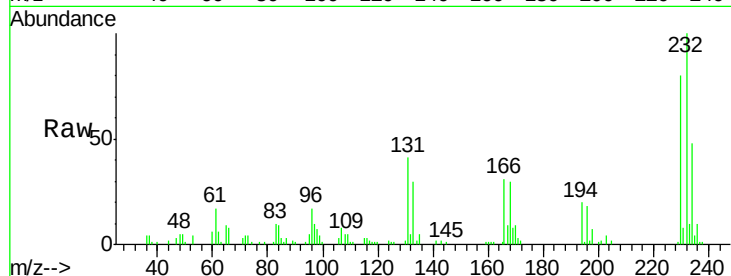
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	232	Resp:	51273
Ion Ratio	Lower	Upper	
232	100		
131	41.6	37.0	55.4
130	1.9	1.8	2.6
166	26.1	22.0	33.0

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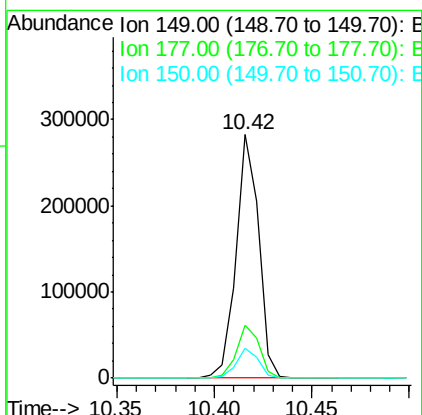
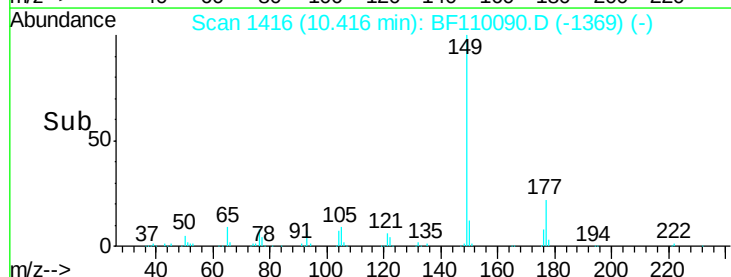
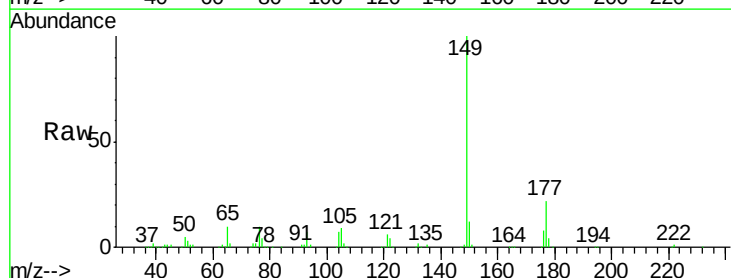
Sohil

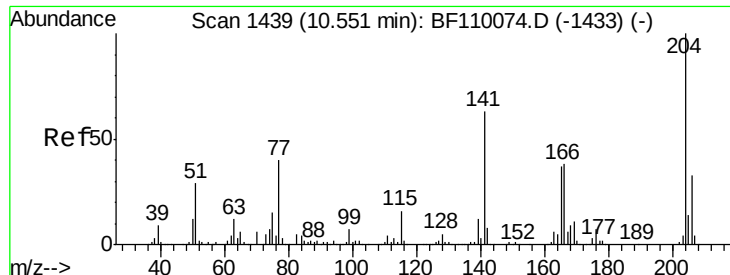
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#60
 Diethylphthalate
 Concen: 8.484 ng
 RT: 10.42 min Scan# 1416
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion:	149	Resp:	226584
Ion Ratio	Lower	Upper	
149	100		
177	21.9	17.4	26.2
150	12.3	9.8	14.8





#61
4-Chlorophenyl-phenylether
Concen: 8.330 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

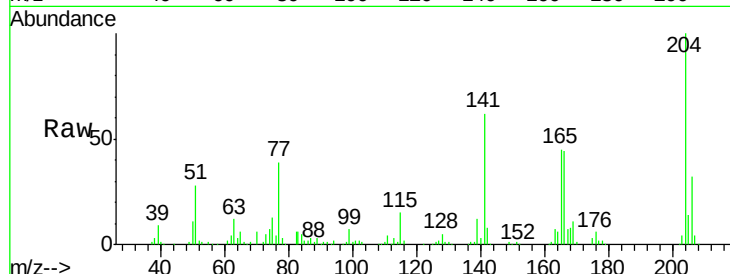
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
204	100		
206	31.9	26.5	39.7
141	61.5	51.8	77.8

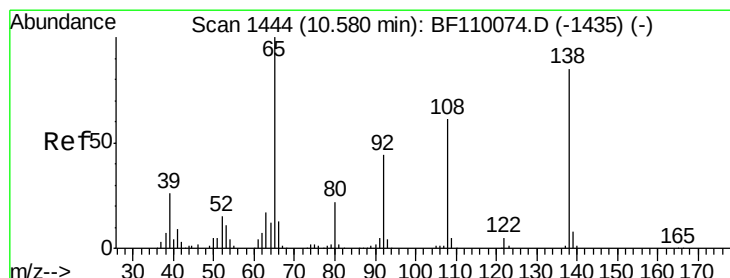
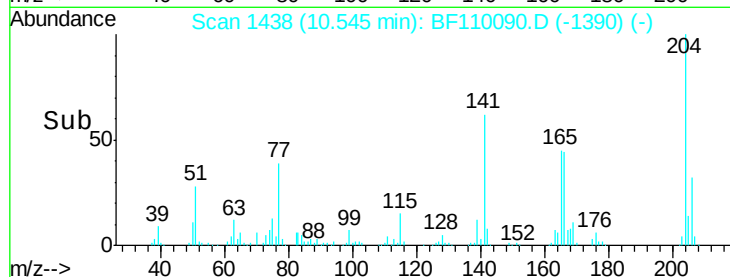
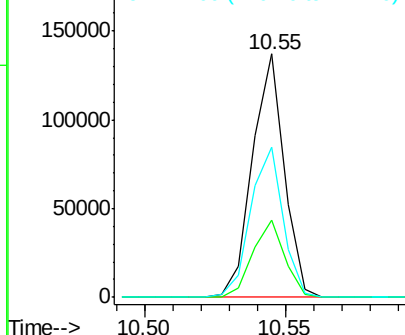
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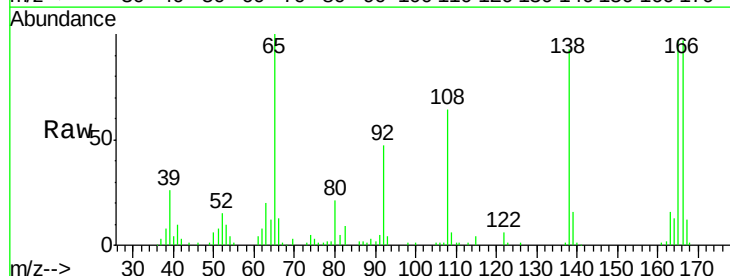


Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

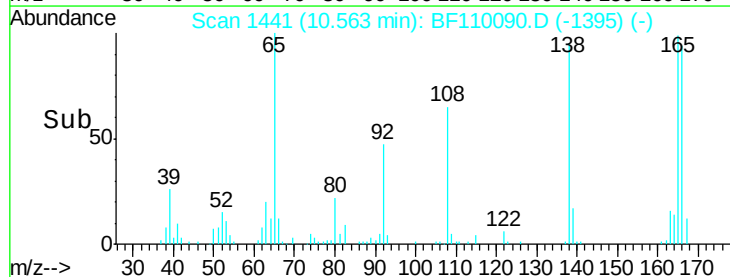
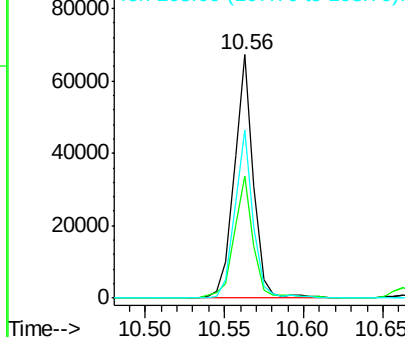


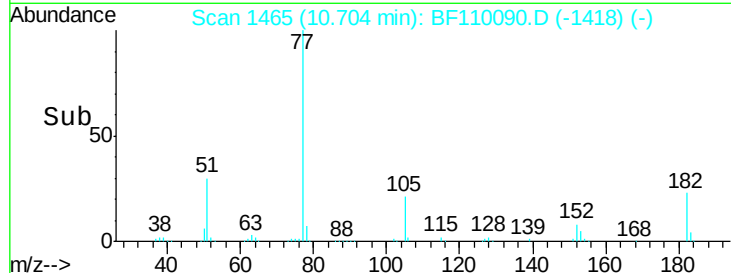
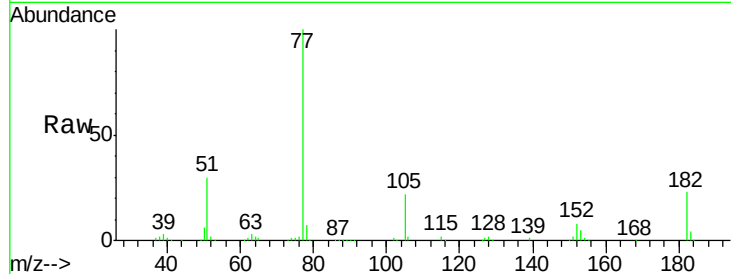
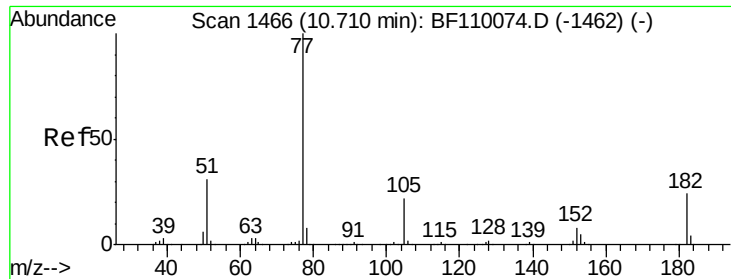
#62
4-Nitroaniline
Concen: 8.062 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.03 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
138	100		
92	50.2	31.7	71.7
108	69.0	59.3	99.3



Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BF1
Ion 108.00 (107.70 to 108.70): E





#63
Azobenzene
Concen: 8.727 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

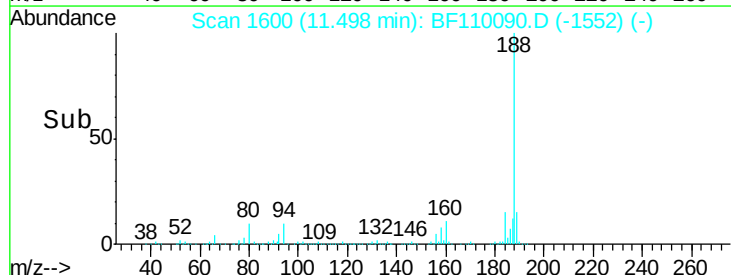
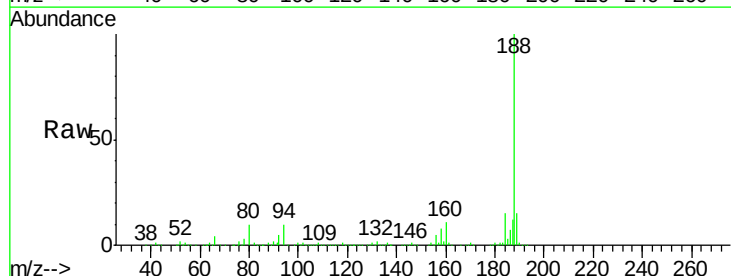
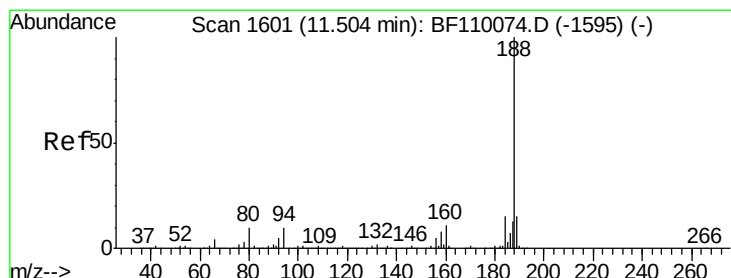
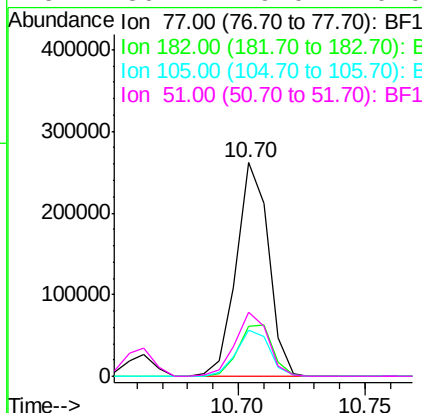
Tgt Ion	Ratio	Resp	Lower	Upper
77	100	231345		
182	23.3	4.3	44.3	
105	21.7	1.3	41.3	
51	30.2	9.0	49.0	

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

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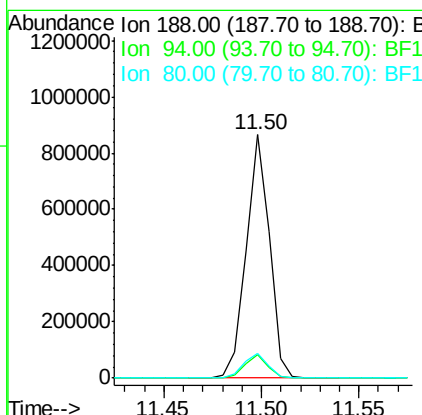
Sohil

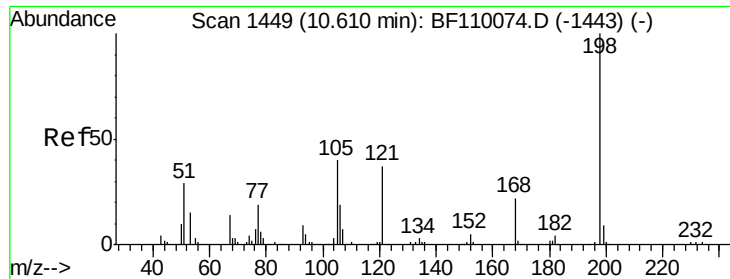
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1600
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	713606		
94	9.7	7.2	10.8	
80	10.4	7.9	11.9	





#65
 4,6-Dinitro-2-methylphenol
 Concen: 6.292 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.03 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

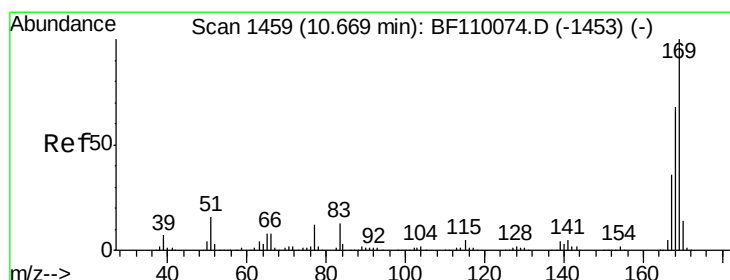
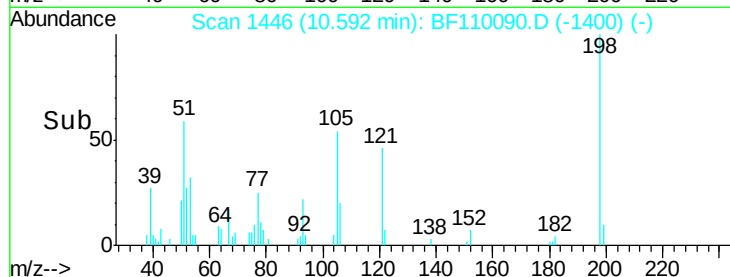
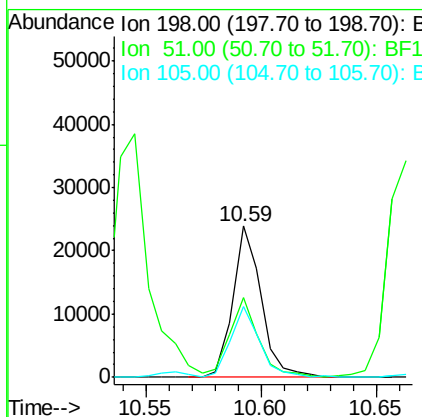
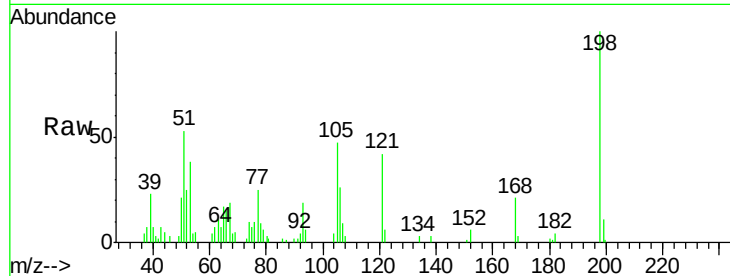
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	20515		
51	52.9	22.8	62.8	
105	47.3	23.6	63.6	

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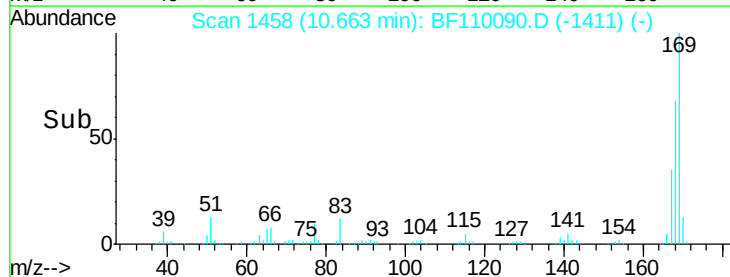
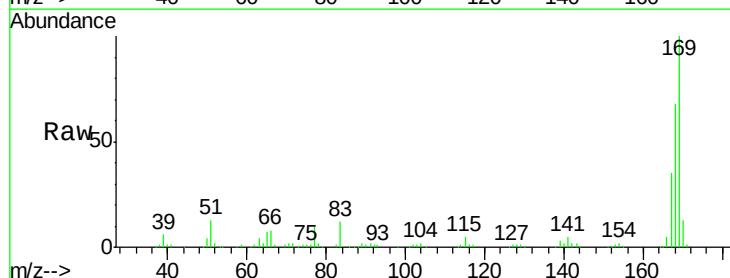
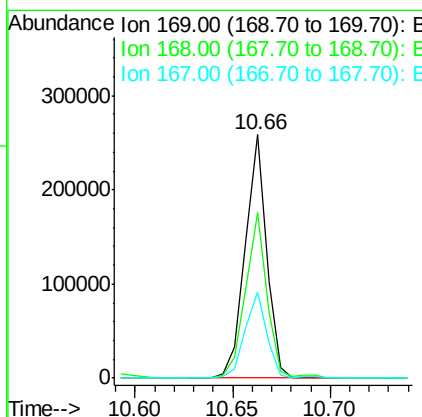
Sohil

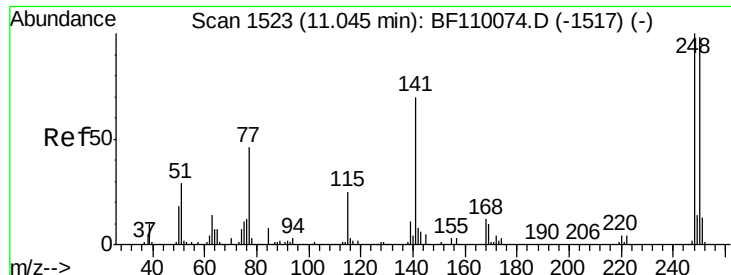
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#66
 n-Nitrosodiphenylamine
 Concen: 8.436 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	197460		
168	67.9	51.2	76.8	
167	35.2	27.8	41.6	





#67
4-Bromophenyl-phenylether
Concen: 8.334 ng
RT: 11.03 min Scan# 1521
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

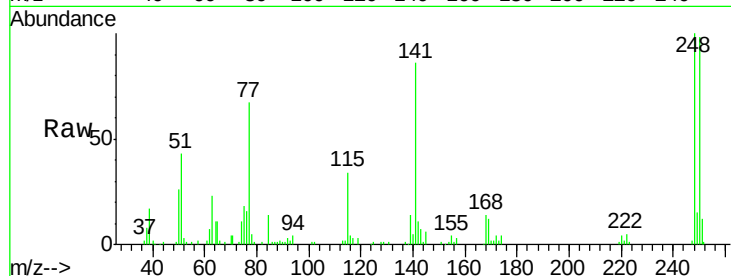
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:248 Resp: 64508
Ion Ratio Lower Upper
248 100
250 97.5 79.4 119.2
141 85.9 55.9 83.9#

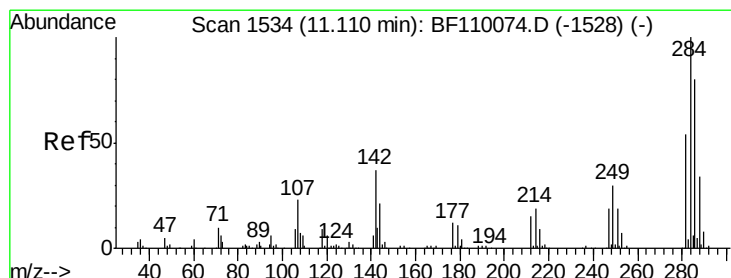
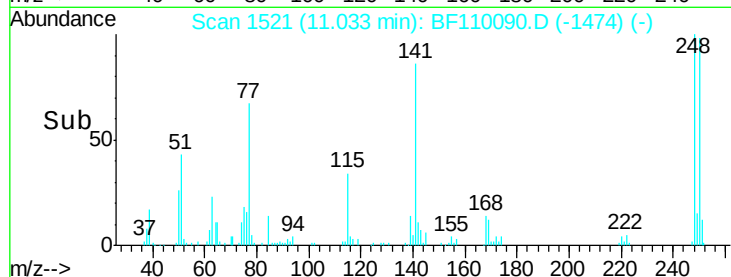
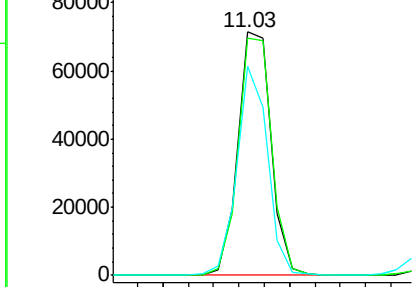
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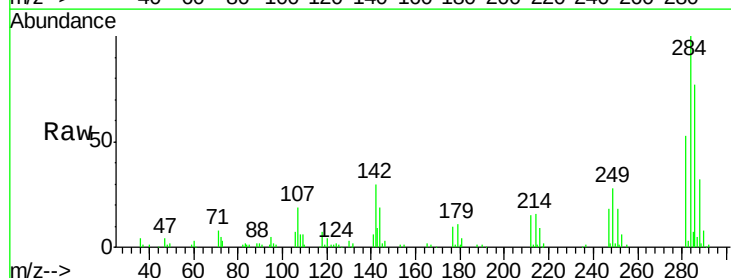


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

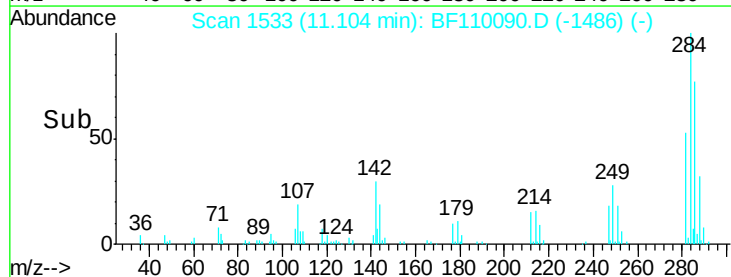
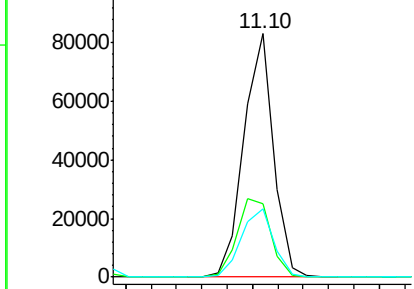


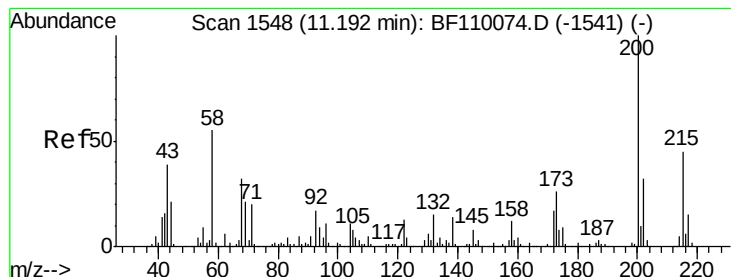
#68
Hexachlorobenzene
Concen: 8.216 ng
RT: 11.10 min Scan# 1533
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion:284 Resp: 67474
Ion Ratio Lower Upper
284 100
142 30.3 23.9 35.9
249 28.3 24.2 36.2



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#69

Atrazine

Concen: 8.580 ng

RT: 11.18 min Scan# 1546

Delta R.T. -0.02 min

Lab File: BF110090.D

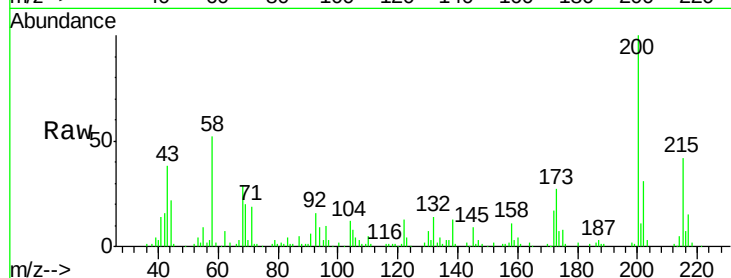
Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



Tgt Ion:200 Resp: 63465

Ion Ratio Lower Upper

200 100

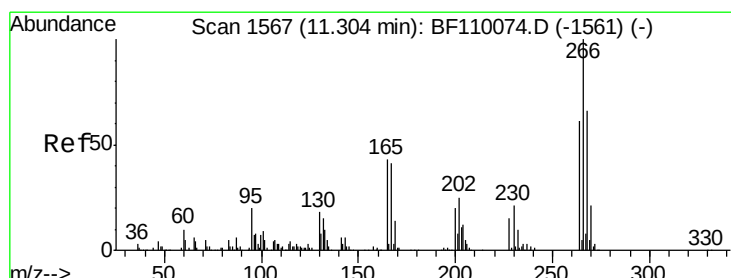
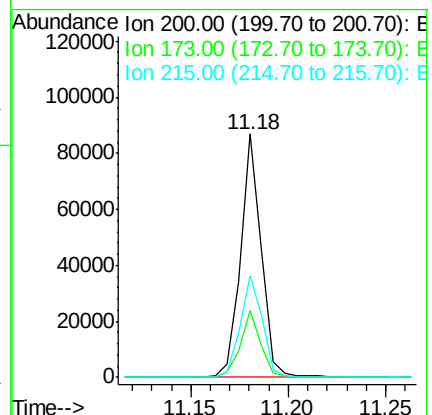
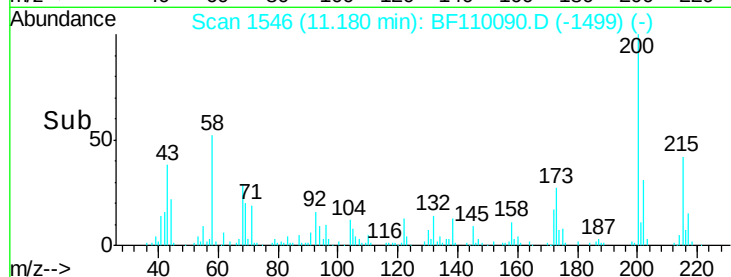
173 27.4 6.6 46.6

215 42.0 26.3 66.3

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#70

Pentachlorophenol

Concen: 5.758 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

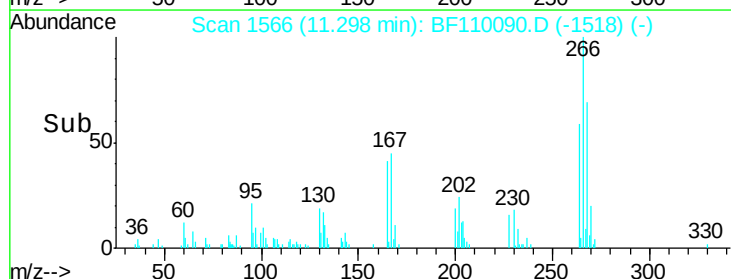
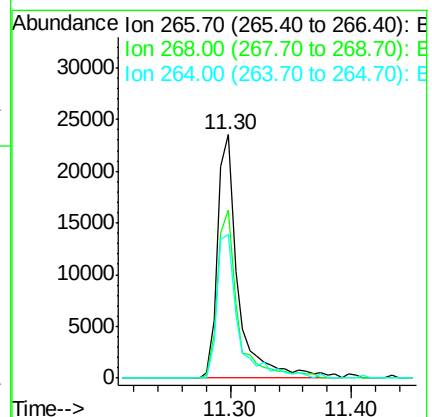
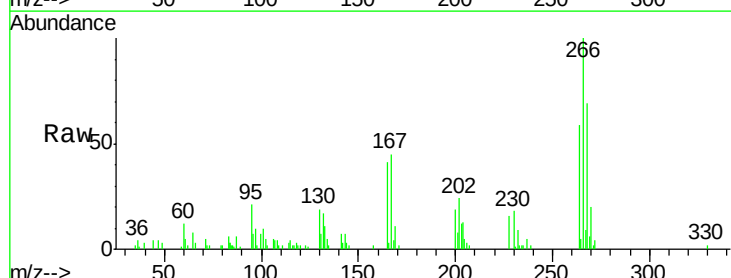
Tgt Ion:266 Resp: 27575

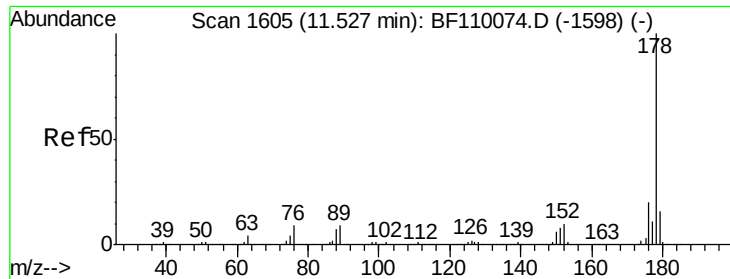
Ion Ratio Lower Upper

266 100

268 68.8 50.6 75.8

264 59.3 50.6 75.8





#71
Phenanthrene
 Concen: 9.382 ng
 RT: 11.52 min Scan# 1604
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

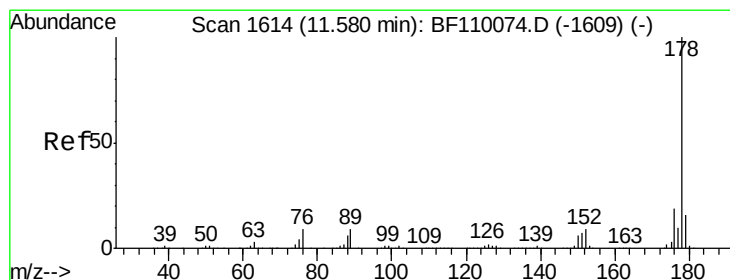
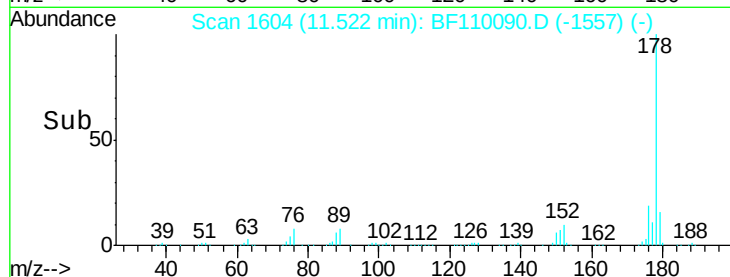
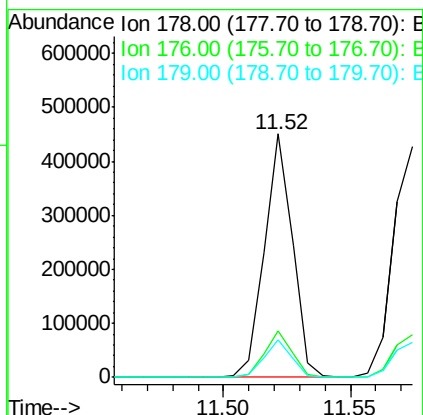
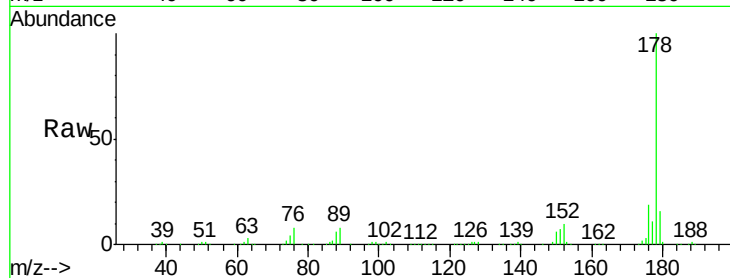
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.6	12.5	18.7

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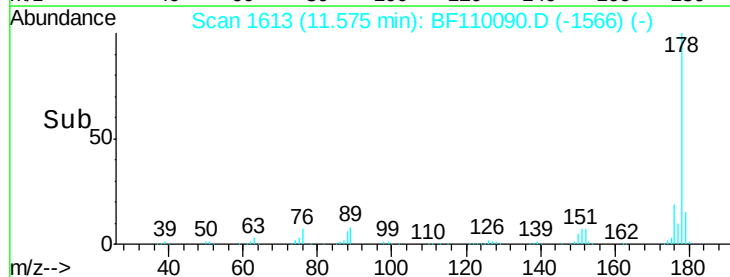
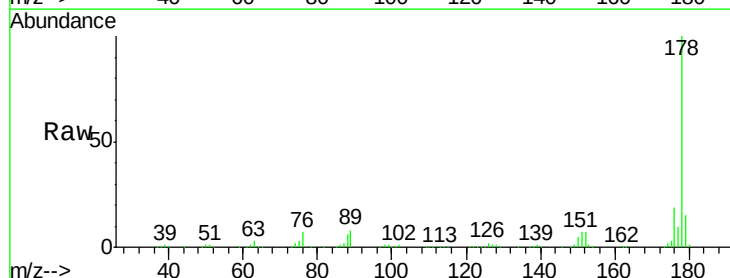
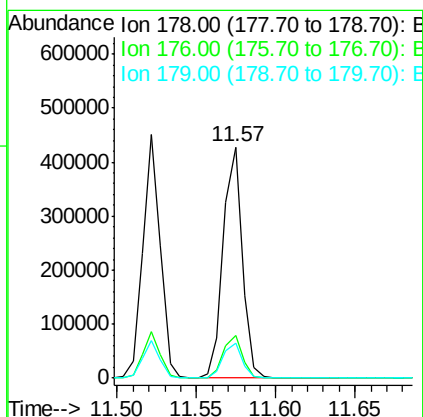
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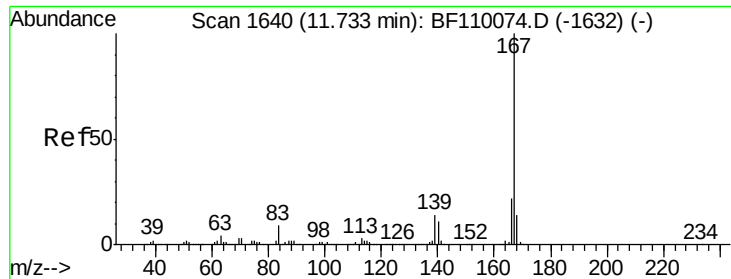
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#72
Anthracene
 Concen: 9.561 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.4	12.6	18.8





#73
 Carbazole
 Concen: 8.432 ng
 RT: 11.73 min Scan# 1639
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

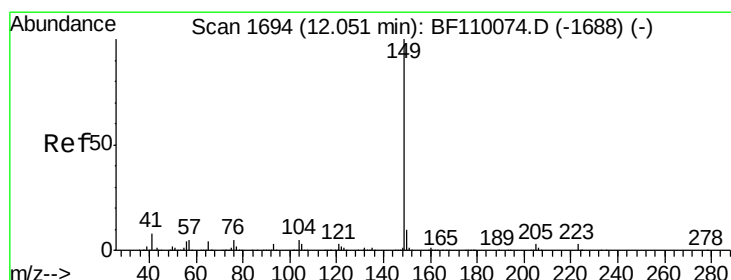
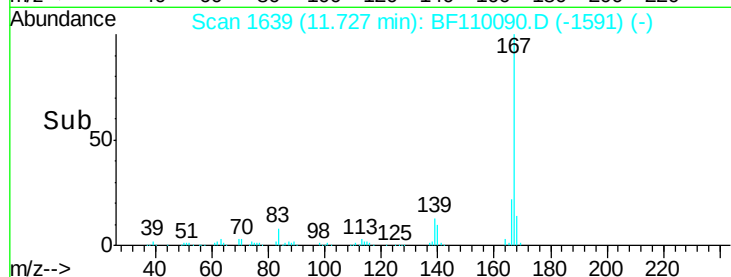
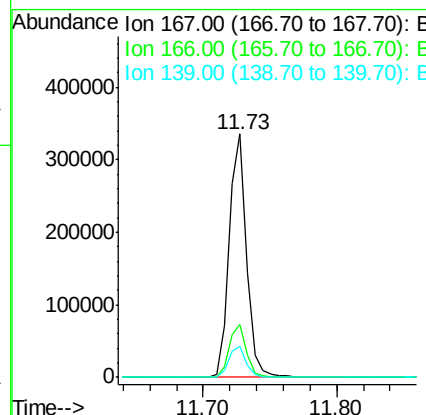
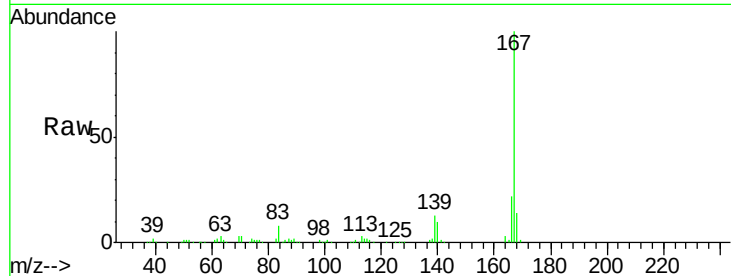
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	308116		
166	21.6		17.4	26.0
139	12.5		10.9	16.3

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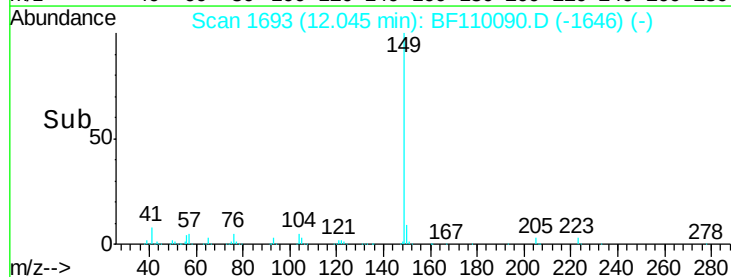
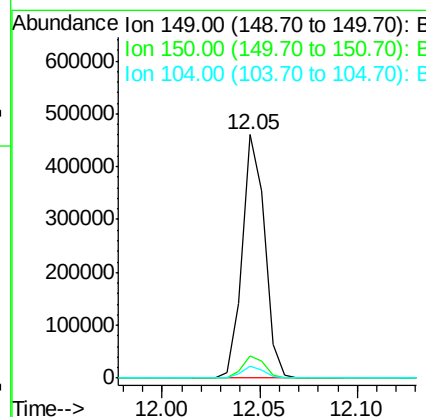
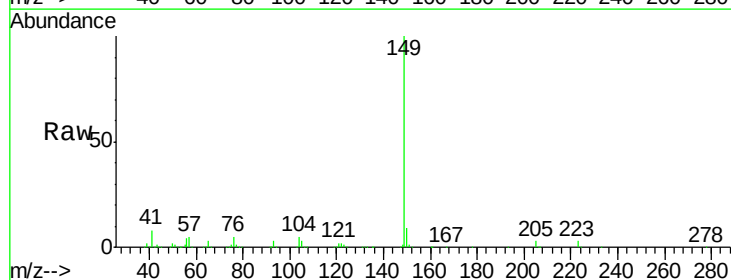
Sohil

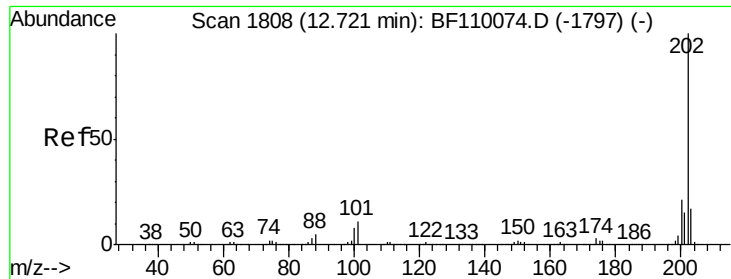
10/24/2018 5:12:07 PM



#74
 Di-n-butylphthalate
 Concen: 8.863 ng
 RT: 12.05 min Scan# 1693
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	365783		
150	9.3		7.7	11.5
104	5.0		4.2	6.4





#75
 Fluoranthene
 Concen: 9.502 ng
 RT: 12.72 min Scan# 1807
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

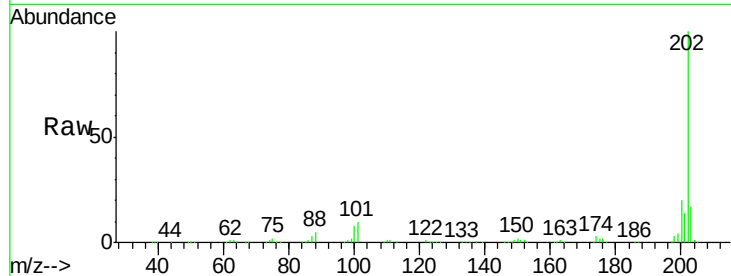
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	9.6	0.0	31.4
203	17.4	0.0	37.7

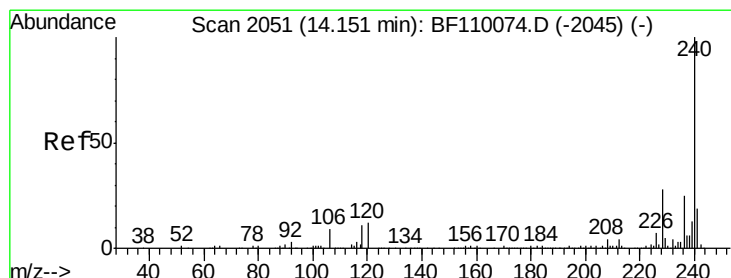
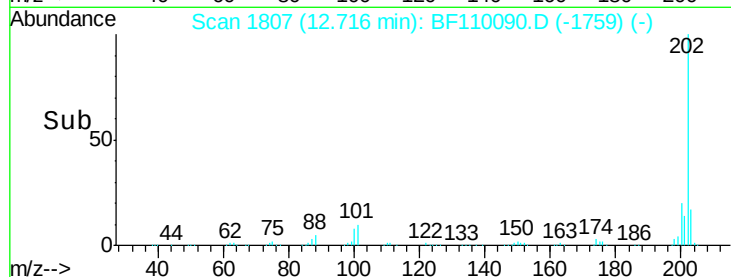
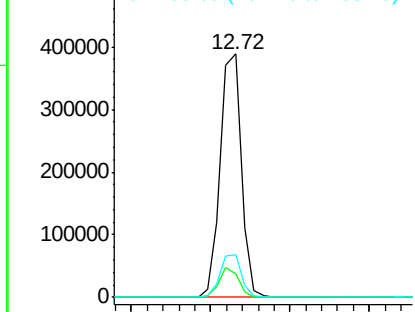
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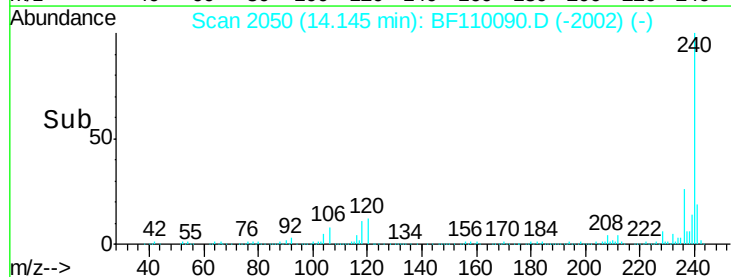
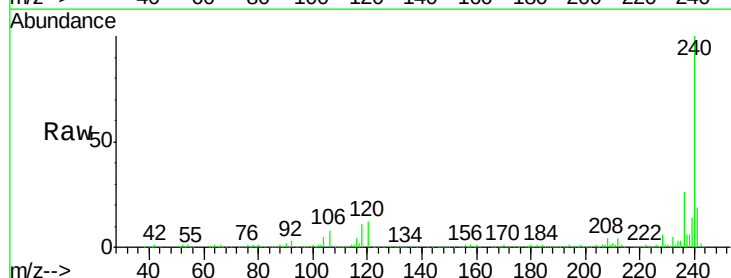
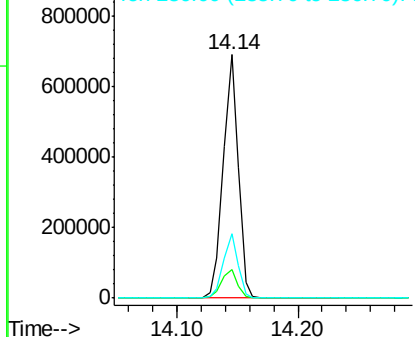
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

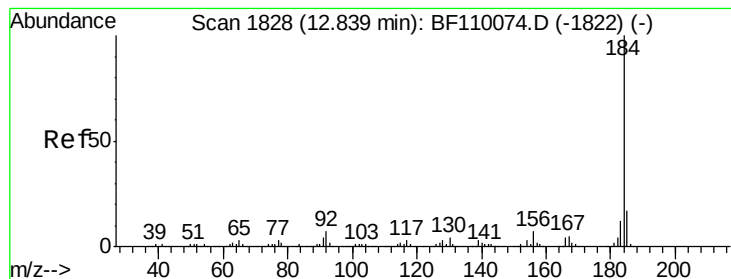


#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.14 min Scan# 2050
 Delta R.T. -0.02 min
 Lab File: BF110090.D
 Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	11.8	8.3	12.5
236	26.2	21.2	31.8

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

Benzidine

Concen: 4.001 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:184 Resp: 97390

Ion Ratio Lower Upper

184 100

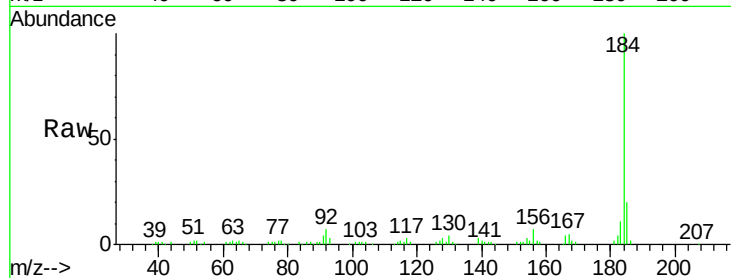
185 19.6 13.4 20.2

183 11.4 9.4 14.2

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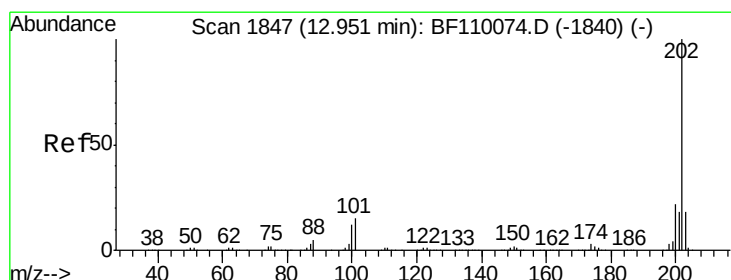
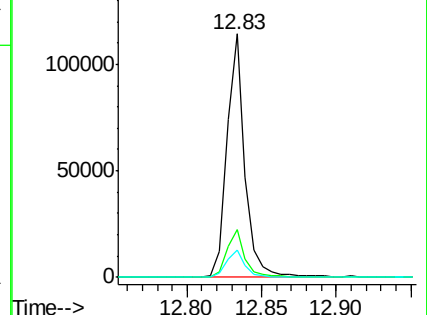
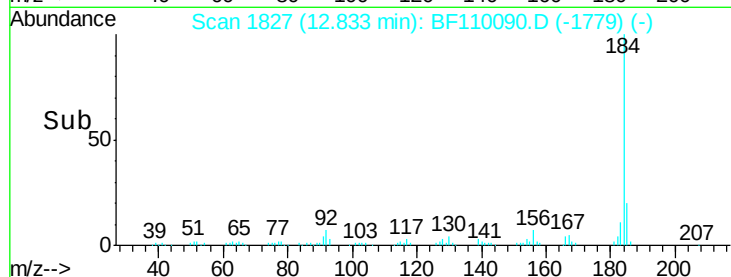
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Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 8.397 ng

RT: 12.95 min Scan# 1846

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

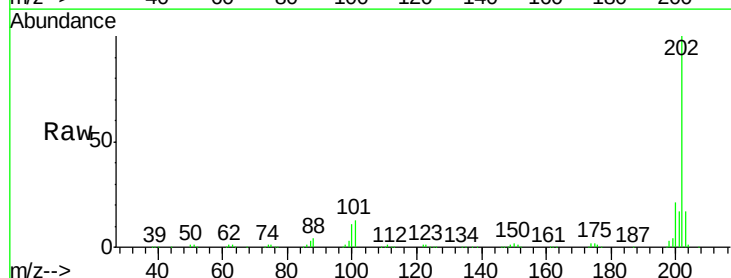
Tgt Ion:202 Resp: 357455

Ion Ratio Lower Upper

202 100

200 21.2 17.8 26.6

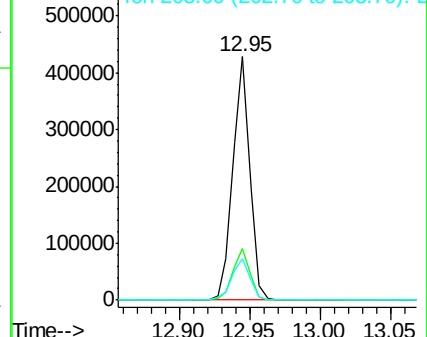
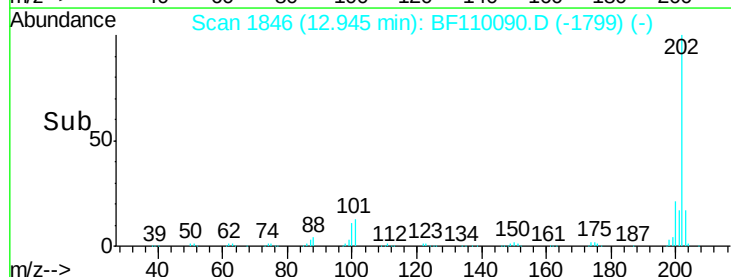
203 16.7 14.2 21.4

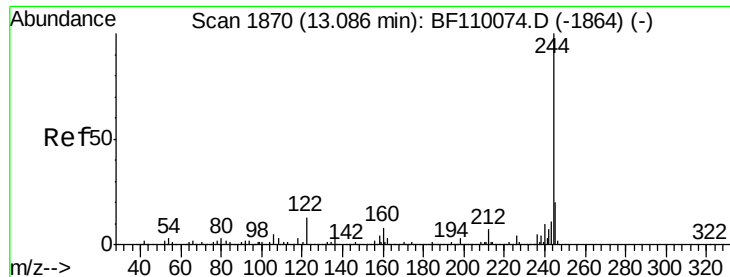


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 69.551 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:244 Resp: 1985847

Ion Ratio Lower Upper

244 100

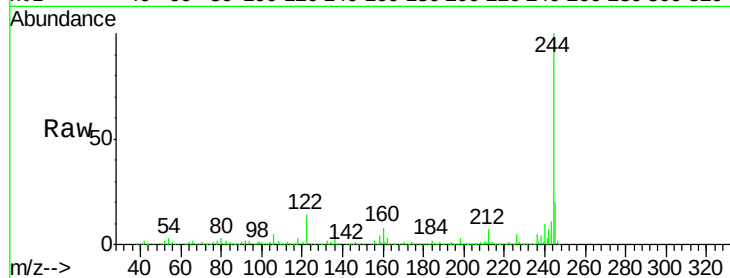
212 7.4 5.8 8.8

122 13.7 8.7 13.1#

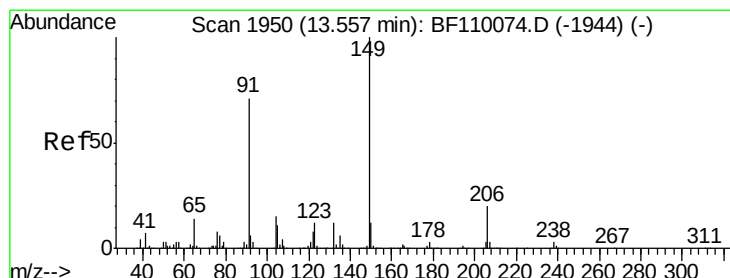
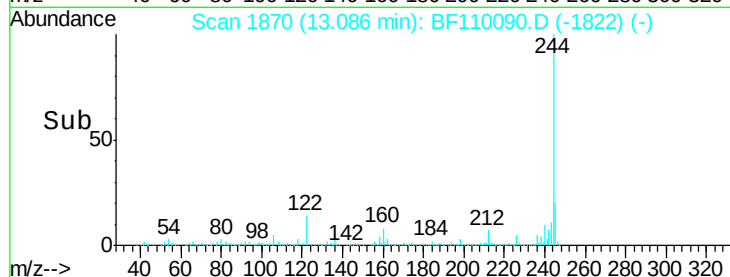
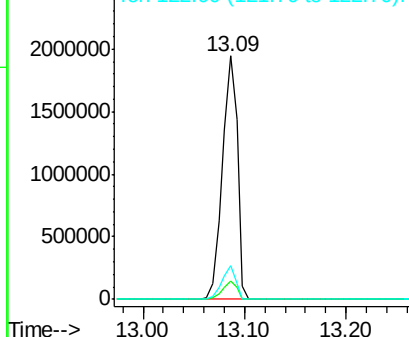
Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 7.930 ng

RT: 13.55 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

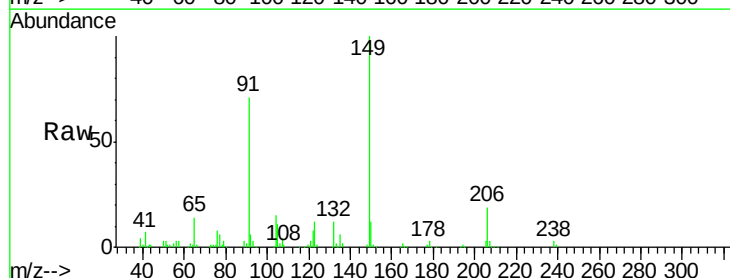
Tgt Ion:149 Resp: 146532

Ion Ratio Lower Upper

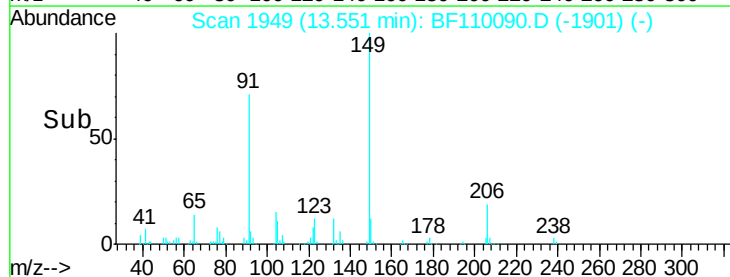
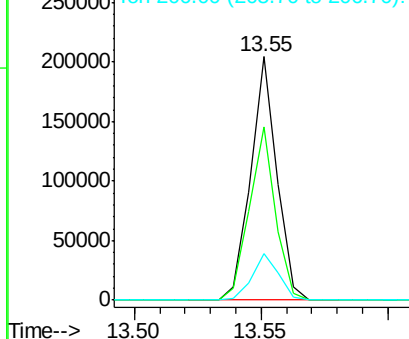
149 100

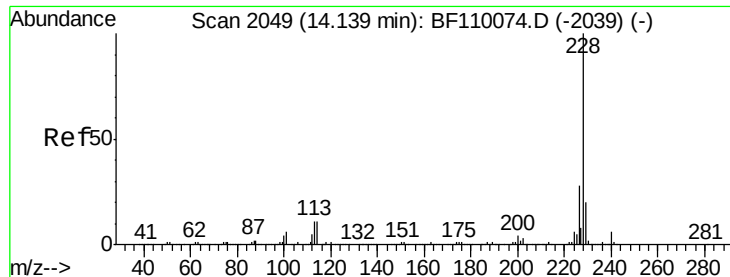
91 71.1 57.2 85.8

206 19.0 15.7 23.5



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BF1
Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 8.985 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

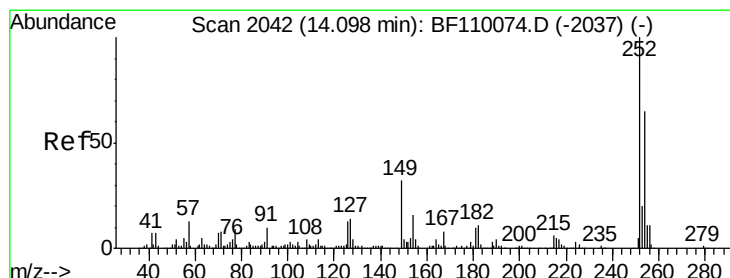
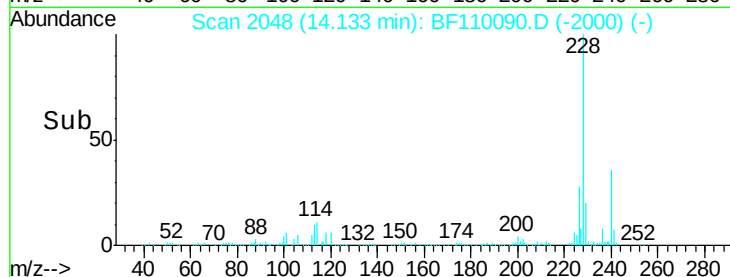
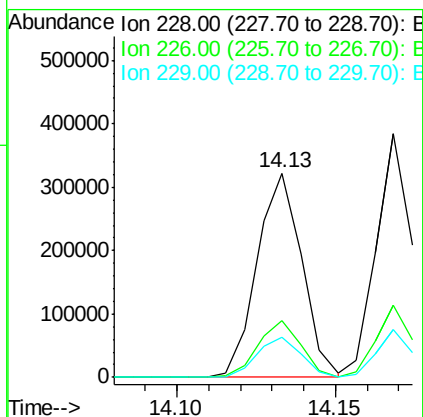
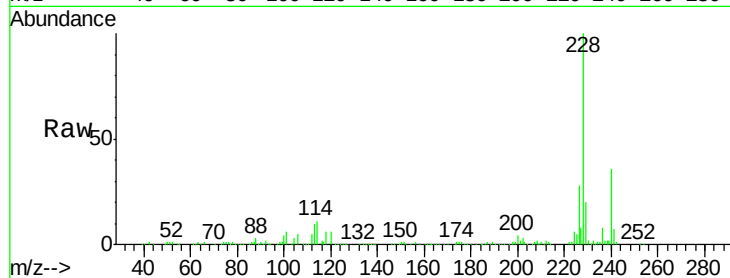
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	228	Resp:	316412
Ion Ratio		Lower	Upper
228	100		
226	27.7	22.1	33.1
229	19.6	15.6	23.4

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#82

3,3'-Dichlorobenzidine

Concen: 6.852 ng

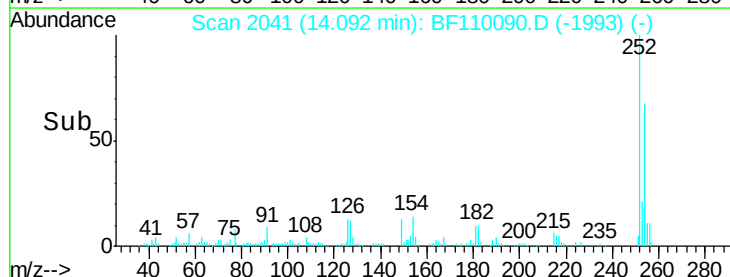
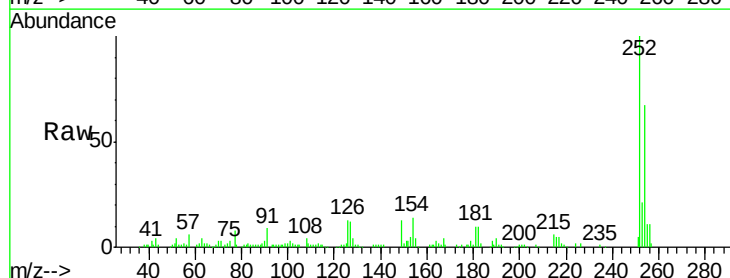
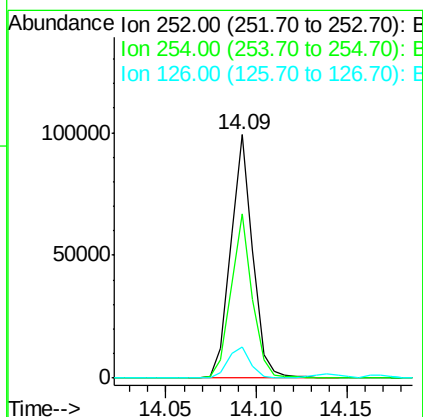
RT: 14.09 min Scan# 2041

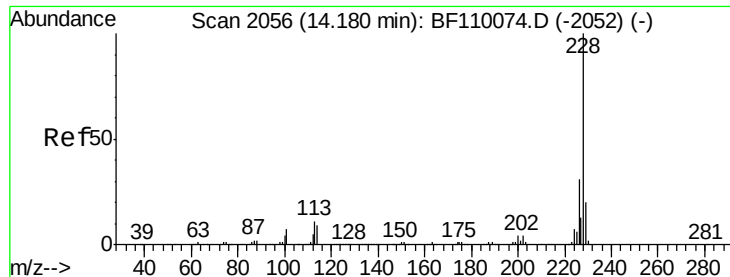
Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:	252	Resp:	84019
Ion Ratio		Lower	Upper
252	100		
254	67.3	51.3	76.9
126	13.0	9.4	14.2





#83
Chrysene
Concen: 8.989 ng
RT: 14.17 min Scan# 2054
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

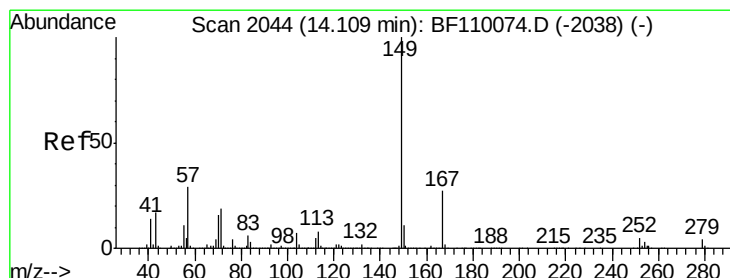
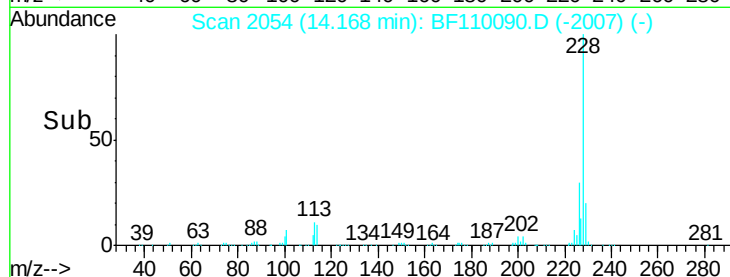
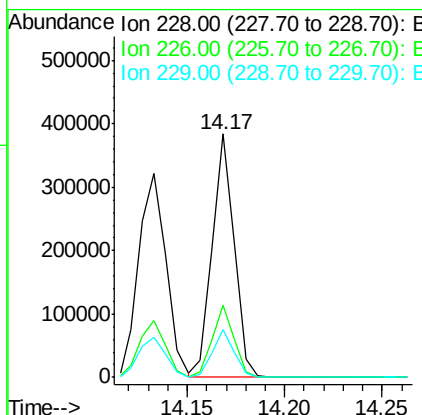
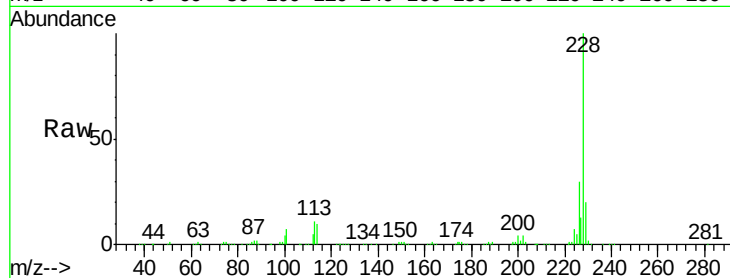
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.7	37.1
229	19.5	15.9	23.9

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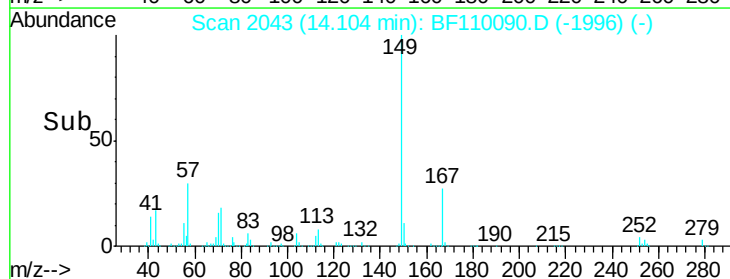
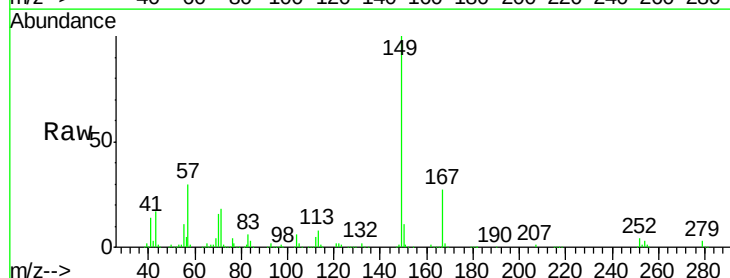
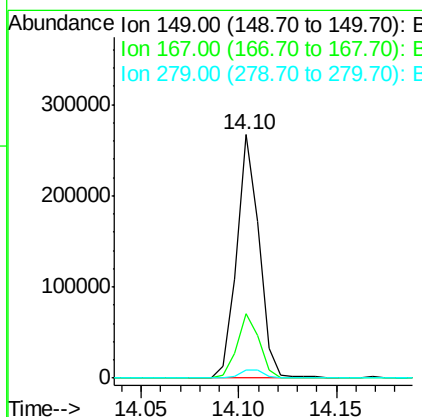
Sohil

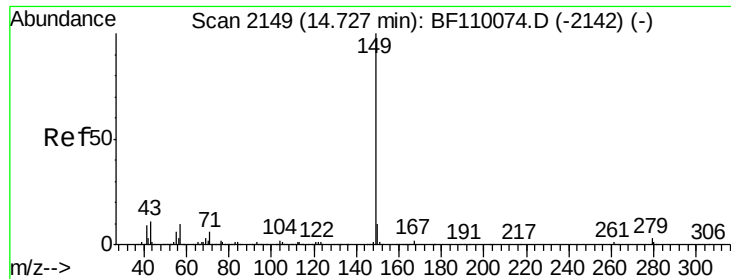
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#84
Bis(2-ethylhexyl)phthalate
Concen: 8.516 ng
RT: 14.10 min Scan# 2043
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.6	19.8	29.8
279	3.2	2.7	4.1





#85
Di-n-octyl phthalate
Concen: 8.644 ng
RT: 14.72 min Scan# 2148
Delta R.T. -0.02 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

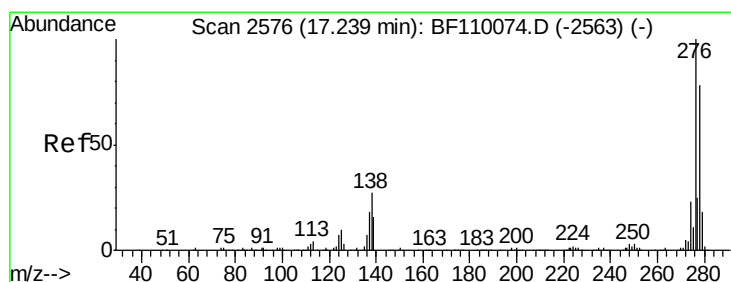
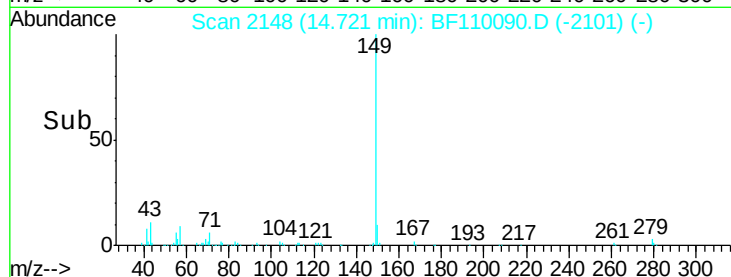
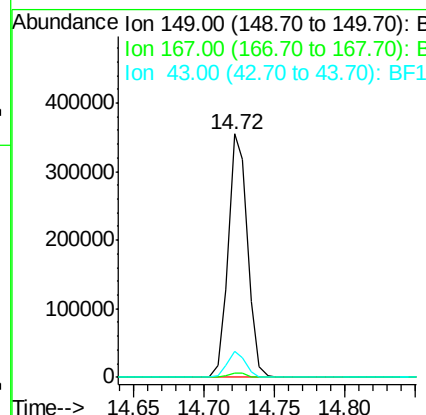
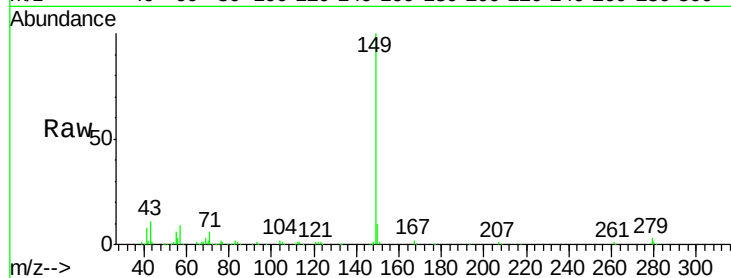
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	1.5	1.1	1.7
43	10.4	7.8	11.8

Manual Integrations
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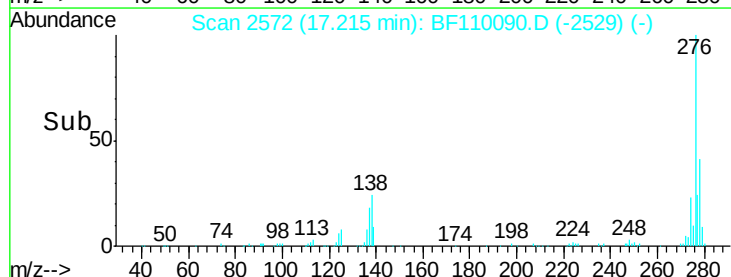
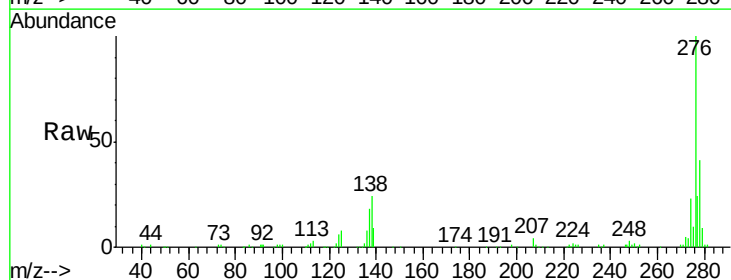
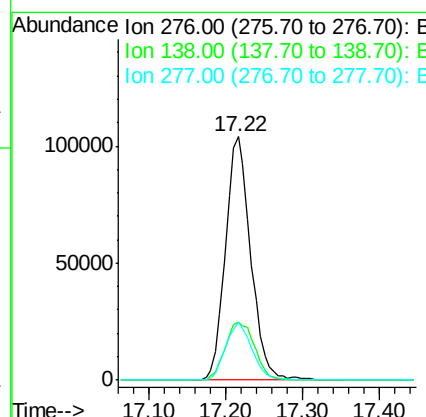
Sohil

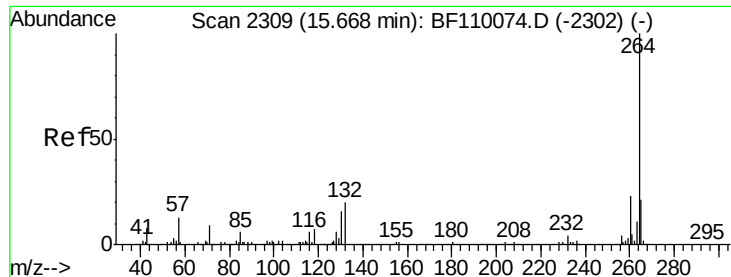
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#86
Indeno(1,2,3-cd)pyrene
Concen: 8.518 ng
RT: 17.22 min Scan# 2572
Delta R.T. -0.05 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	28.0	18.5	27.7#
277	24.5	20.0	30.0





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2309

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:264 Resp: 508609

Ion Ratio Lower Upper

264 100

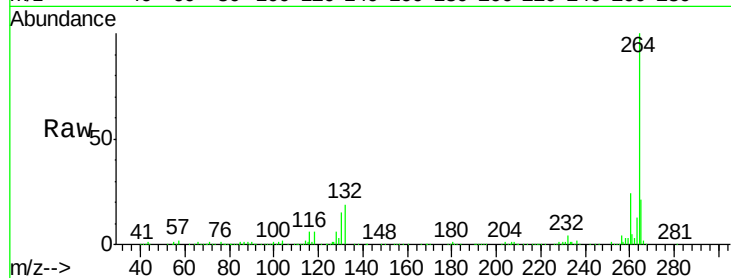
260 23.9 18.7 28.1

265 21.2 16.7 25.1

Manual Integrations
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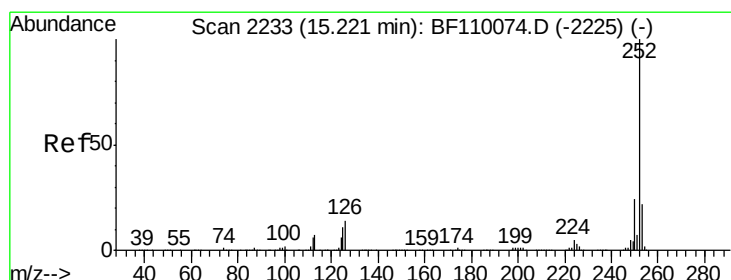
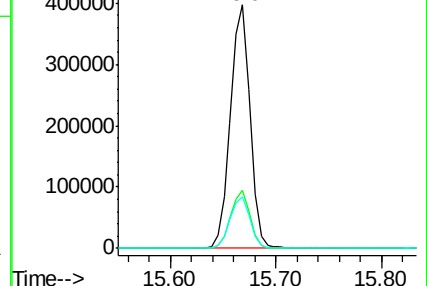
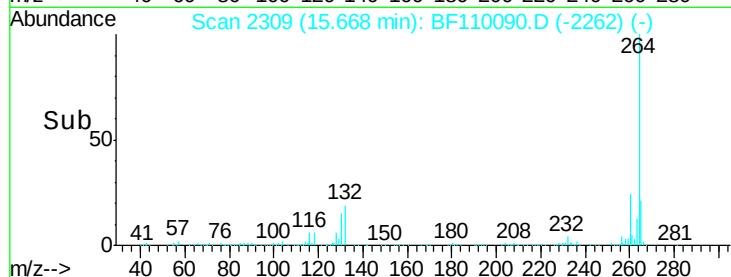
10/24/2018 5:12:07 PM



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 8.966 ng

RT: 15.21 min Scan# 2231

Delta R.T. -0.02 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

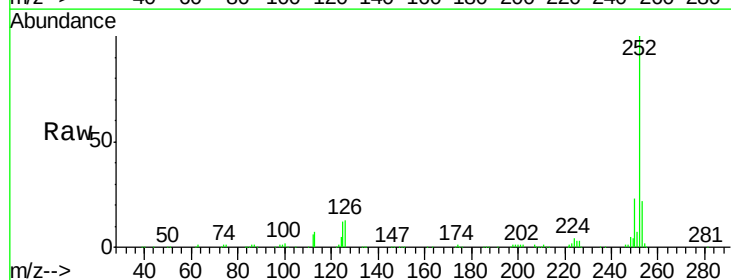
Tgt Ion:252 Resp: 263348

Ion Ratio Lower Upper

252 100

253 21.7 17.2 25.8

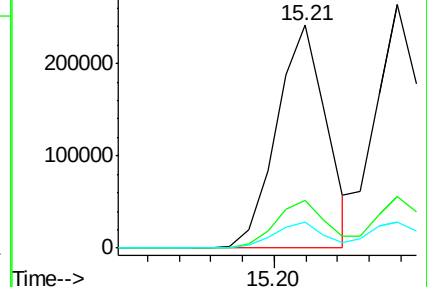
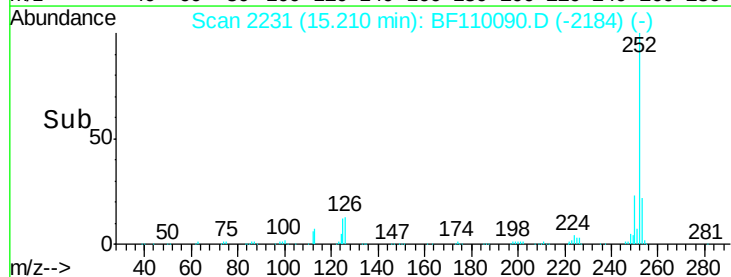
125 11.9 8.2 12.4

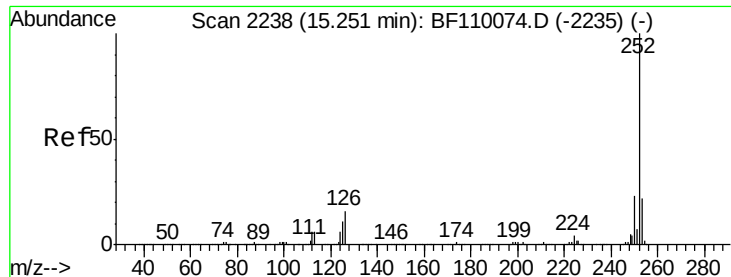


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89
Benzo(k)fluoranthene
Concen: 9.220 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.03 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

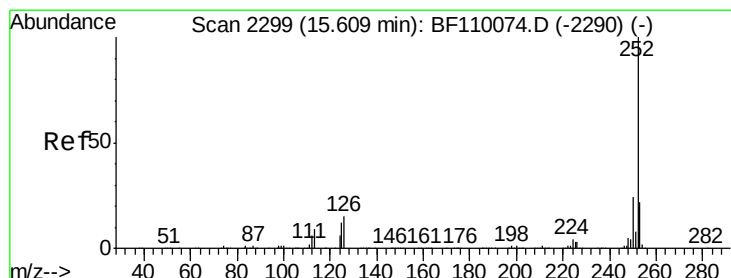
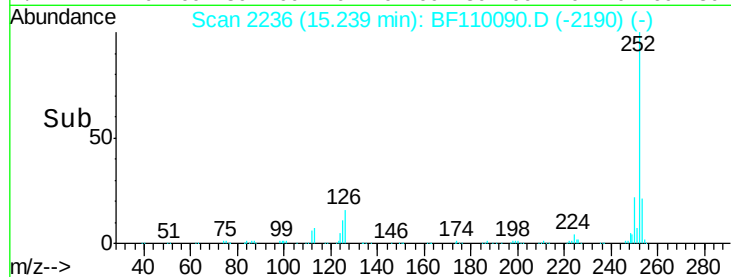
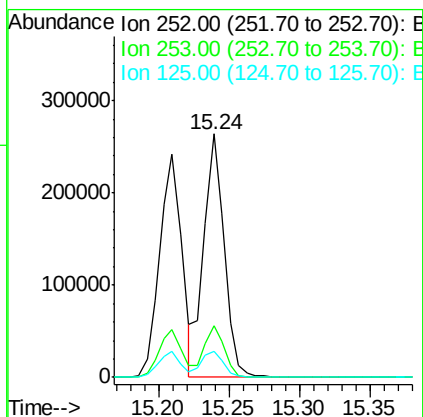
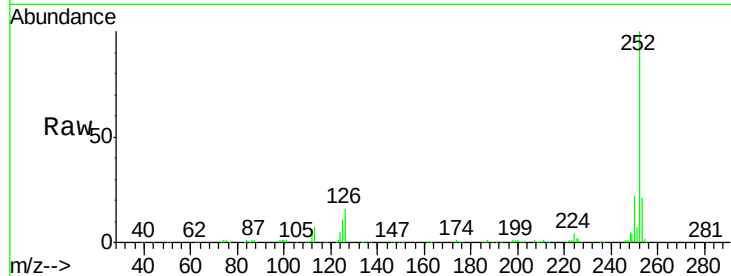
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.2	25.8
125	10.9	7.4	11.0

Manual Integrations
APPROVED

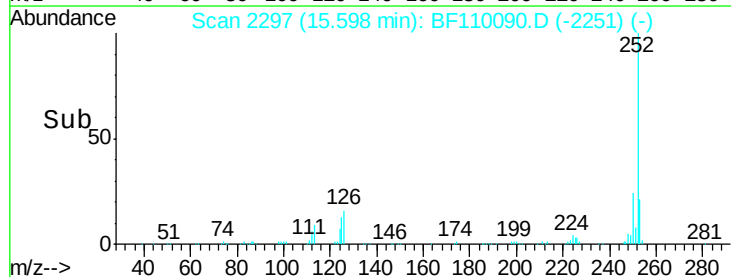
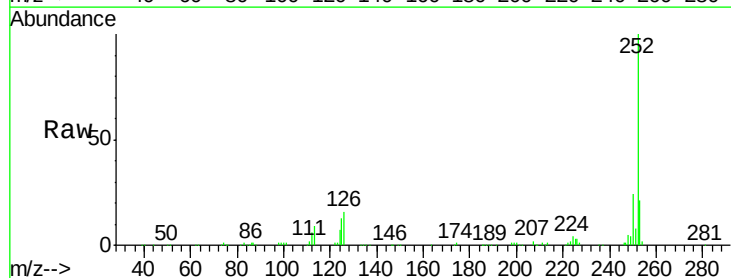
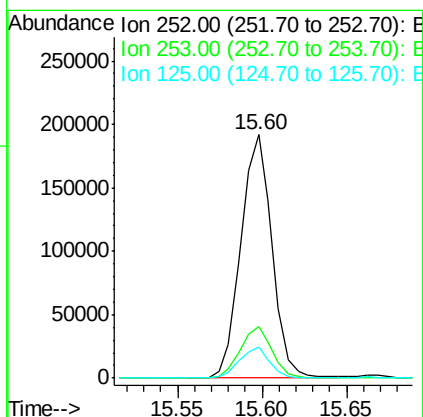
Sohil

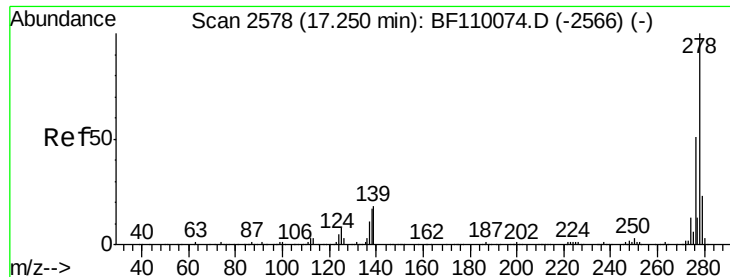
10/24/2018 5:12:07 PM



#90
Benzo(a)pyrene
Concen: 9.124 ng
RT: 15.60 min Scan# 2297
Delta R.T. -0.03 min
Lab File: BF110090.D
Acq: 23 Oct 2018 21:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.2	27.4
125	12.7	9.0	13.6





#91

Dibenzo(a,h)anthracene

Concen: 8.370 ng

RT: 17.23 min Scan# 2575

Delta R.T. -0.05 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Instrument :

BNA_F

ClientSampleId :

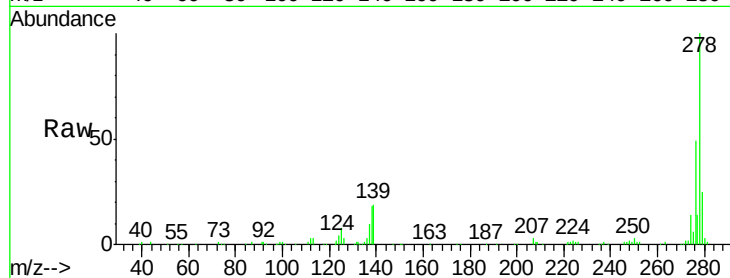
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	278	Resp:	195170
Ion Ratio	Lower	Upper	
278	100		
139	18.7	12.7	19.1
279	24.7	19.0	28.4

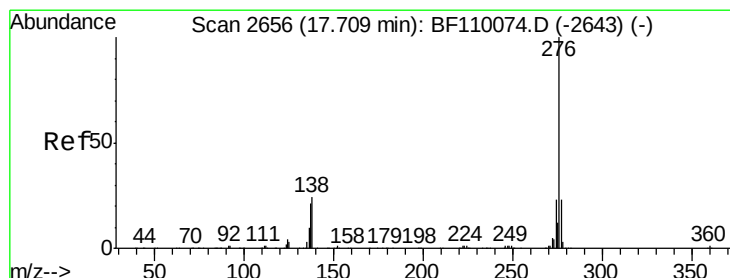
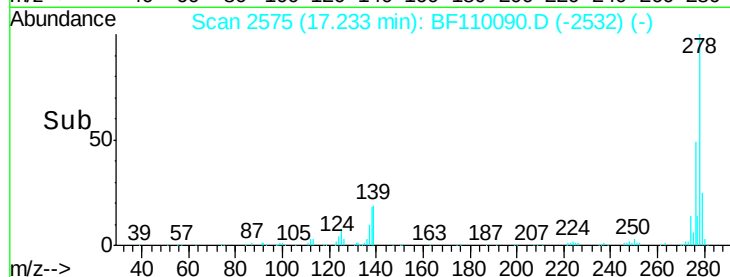
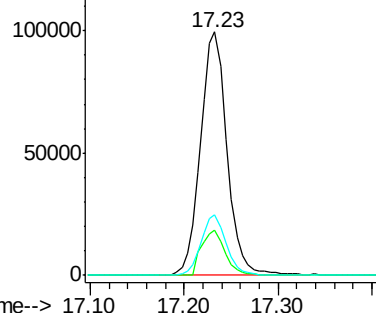
Manual Integrations
APPROVED

Sohil

10/24/2018 5:12:07 PM



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



#92

Benzo(g,h,i)perylene

Concen: 8.164 ng

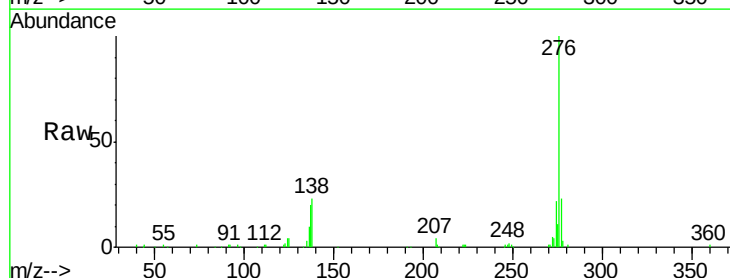
RT: 17.69 min Scan# 2652

Delta R.T. -0.05 min

Lab File: BF110090.D

Acq: 23 Oct 2018 21:04

Tgt Ion:	276	Resp:	187594
Ion Ratio	Lower	Upper	
276	100		
277	23.1	18.8	28.2
138	22.8	16.0	24.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

