

Data Path : Z:\HPCHEM1\BNA F\Data\BF101916\
 Data File : BF090648.D
 Acq On : 19 Oct 2016 15:31
 Operator : UM/SJ
 Sample : H5291-01MSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Quant Time: Oct 19 16:10:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 17 19:19:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.886	152	261345	20.00	ng	-0.02
21) Naphthalene-d8	8.177	136	1188693	20.00	ng	-0.02
38) Acenaphthene-d10	9.937	164	647148	20.00	ng	-0.02
63) Phenanthrene-d10	11.423	188	1051776	20.00	ng	-0.02
75) Chrysene-d12	14.064	240	900825	20.00	ng	-0.02
86) Perylene-d12	15.515	264	619177	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.514	112	1698456	119.14	ng	0.00
7) Phenol-d6	6.531	99	2073193	97.87	ng	-0.01
23) Nitrobenzene-d5	7.457	82	1430889	66.87	ng	-0.02
41) 2,4,6-Tribromophenol	10.726	330	569830	98.76	ng	-0.02
44) 2-Fluorobiphenyl	9.252	172	2449378	62.36	ng	-0.02
78) Terphenyl-d14	13.012	244	2647572	68.43	ng	-0.02

Target Compounds

						Qvalue
3) Pyridine	3.400	79	308486	16.94	ng	92
4) n-Nitrosodimethylamine	3.320	42	242273	38.79	ng	90
6) Aniline	6.554	93	323785	12.65	ng	# 49
8) 2-Chlorophenol	6.680	128	675880	36.56	ng	88
9) Benzaldehyde	6.440	77	110513	8.21	ng	99
10) Phenol	6.543	94	761622	31.44	ng	98
11) bis(2-Chloroethyl)ether	6.623	93	692007	34.62	ng	93
12) 1,3-Dichlorobenzene	6.829	146	629681	34.16	ng	99
13) 1,4-Dichlorobenzene	6.909	146	655146	32.68	ng	99
14) 1,2-Dichlorobenzene	7.057	146	622047	33.19	ng	98
15) Benzyl Alcohol	7.034	79	594766	41.22	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.172	45	1015701	36.11	ng	91
17) 2-Methylphenol	7.149	107	542524	37.66	ng	98
18) Hexachloroethane	7.400	117	247927	31.29	ng	98
19) n-Nitroso-di-n-propyla...	7.309	70	534699	36.81	ng	# 91
20) 3+4-Methylphenols	7.309	107	673117	38.54	ng	# 77
22) Acetophenone	7.297	105	909305	34.63	ng	# 93
24) Nitrobenzene	7.469	77	719528	32.76	ng	98
25) Isophorone	7.720	82	1498860	38.49	ng	# 94
26) 2-Nitrophenol	7.789	139	336259	33.75	ng	100
27) 2,4-Dimethylphenol	7.834	122	630481	38.13	ng	99
28) bis(2-Chloroethoxy)met...	7.926	93	861054	37.44	ng	99
29) 2,4-Dichlorophenol	8.040	162	529501	36.56	ng	98
30) 1,2,4-Trichlorobenzene	8.120	180	557187	32.85	ng	99
31) Naphthalene	8.200	128	2054056	33.92	ng	99
32) Benzoic acid	7.972	122	354168	34.88	ng	97
33) 4-Chloroaniline	8.246	127	179833	7.77	ng	99
34) Hexachlorobutadiene	8.314	225	292692	30.89	ng	99
35) Caprolactam	8.623	113	119380	29.54	ng	# 85
36) 4-Chloro-3-methylphenol	8.737	107	610792	36.56	ng	92
37) 2-Methylnaphthalene	8.886	142	1188805	33.43	ng	99
39) 1,2,4,5-Tetrachloroben...	9.057	216	557664	32.50	ng	99
40) Hexachlorocyclopentadiene	9.046	237	606168	72.32	ng	99
42) 2,4,6-Trichlorophenol	9.172	196	380829	39.35	ng	98

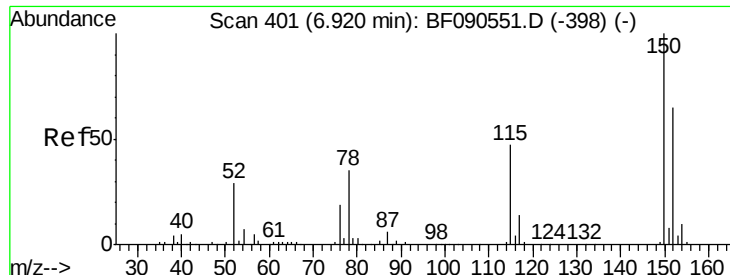
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,5-Trichlorophenol	9.217	196	381519	33.04	nq	97
45) 1,1'-Biphenyl	9.355	154	1517842	30.82	nq	99
46) 2-Chloronaphthalene	9.377	162	1178026	32.08	nq	98
47) 2-Nitroaniline	9.480	65	491086	36.89	nq	96
48) Acenaphthylene	9.800	152	2003282	34.26	nq	99
49) Dimethylphthalate	9.663	163	1536124	36.59	nq	# 100
50) 2,6-Dinitrotoluene	9.720	165	316737	34.47	nq	# 75
51) Acenaphthene	9.972	154	1420360	36.55	nq	99
52) 3-Nitroaniline	9.892	138	135949	11.79	nq	99
53) 2,4-Dinitrophenol	9.995	184	316631	64.65	nq	# 69
54) Dibenzofuran	10.143	168	1752277	34.28	nq	95
55) 4-Nitrophenol	10.063	139	494608	71.29	nq	94
56) 2,4-Dinitrotoluene	10.132	165	462555	37.07	nq	# 86
57) Fluorene	10.486	166	1468694	34.83	nq	100
58) 2,3,4,6-Tetrachlorophenol	10.223	232	325760	33.88	nq	92
59) Diethylphthalate	10.360	149	1494615	35.10	nq	97
60) 4-Chlorophenyl-phenyle...	10.475	204	653977	32.90	nq	92
61) 4-Nitroaniline	10.509	138	332986	28.80	nq	95
62) Azobenzene	10.635	77	1784232	36.22	nq	95
64) 4,6-Dinitro-2-methylph...	10.532	198	204704	32.16	nq	# 42
65) n-Nitrosodiphenylamine	10.600	169	1263797	36.38	nq	98
66) 4-Bromophenyl-phenylether	10.966	248	386821	34.28	nq	# 90
67) Hexachlorobenzene	11.035	284	447975	36.56	nq	# 77
68) Atrazine	11.126	200	349294	36.35	nq	99
69) Pentachlorophenol	11.229	266	485856	80.00	nq	96
70) Phenanthrene	11.446	178	1894727	33.75	nq	97
71) Anthracene	11.503	178	2191182	36.26	nq	99
72) Carbazole	11.652	167	1766548	32.66	nq	98
73) Di-n-butylphthalate	11.983	149	2257100	35.62	nq	# 97
74) Fluoranthene	12.635	202	1947678	34.49	nq	94
76) Benzidine	12.761	184	167226	7.46	nq	96
77) Pyrene	12.863	202	1896253	31.78	nq	98
79) Butylbenzylphthalate	13.481	149	992109	37.53	nq	# 85
80) Benzo(a)anthracene	14.052	228	1797596	35.05	nq	100
81) 3,3'-Dichlorobenzidine	14.018	252	328916	18.77	nq	98
82) Chrysene	14.098	228	1844556	37.33	nq	98
83) Bis(2-ethylhexyl)phtha...	14.041	149	1440238	40.39	nq	# 97
84) Di-n-octyl phthalate	14.658	149	2401417	50.22	nq	# 95
85) Indeno(1,2,3-cd)pyrene	16.955	276	1163965	40.74	nq	98
87) Benzo(b)fluoranthene	15.092	252	1719447	42.44	nq	99
88) Benzo(k)fluoranthene	15.092	252	1719447	39.44	nq	97
89) Benzo(a)pyrene	15.458	252	1292782	34.85	nq	97
90) Dibenzo(a,h)anthracene	16.967	278	1008519	35.65	nq	99
91) Benzo(g,h,i)perylene	17.390	276	902273	33.45	nq	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.886 min Scan# 39

Delta R.T. -0.023 min

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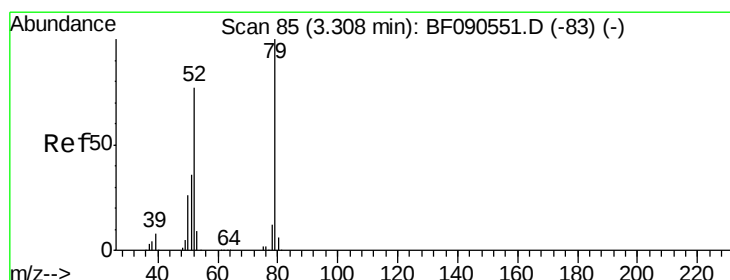
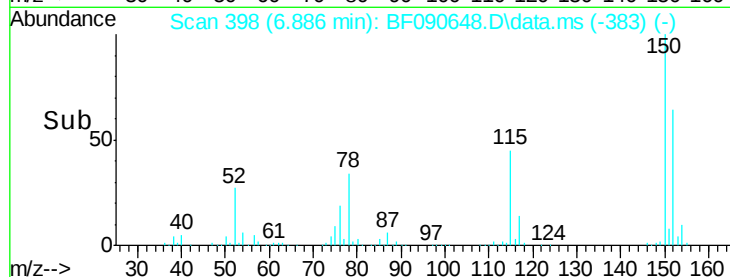
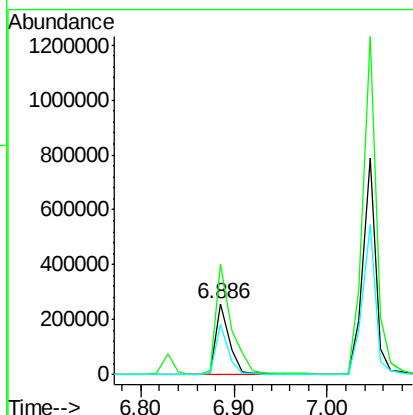
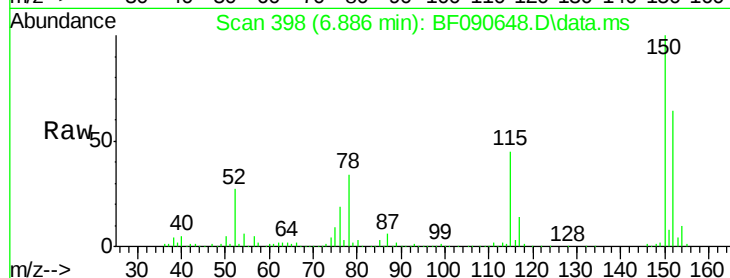
Tot Ion:152 Resp: 261345

Ion Ratio Lower Upper

152 100

150 156.0 127.2 190.8

115 70.5 58.6 88.0



#3

Pyridine

Concen: 16.94 ng

RT: 3.400 min Scan# 93

Delta R.T. 0.126 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

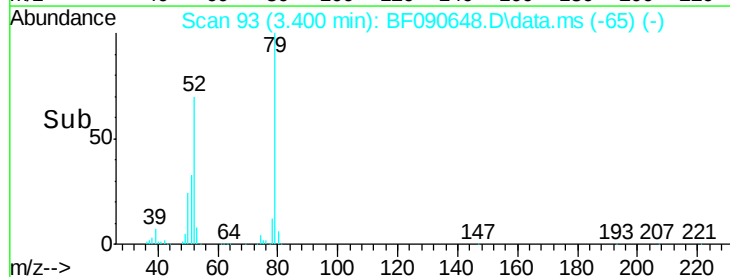
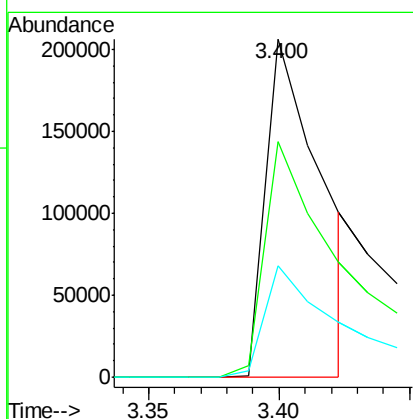
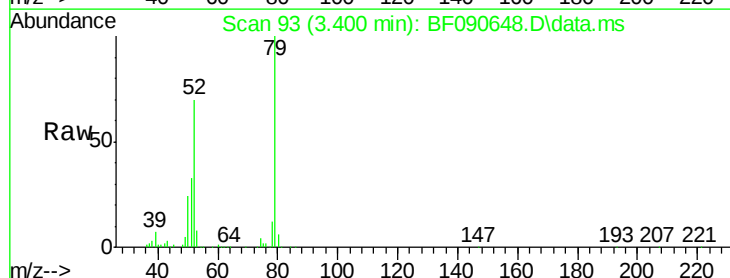
Tgt Ion: 79 Resp: 308486

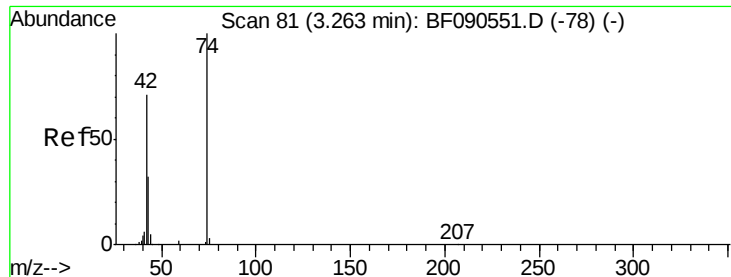
Ion Ratio Lower Upper

79 100

52 69.9 61.8 92.8

51 33.1 29.2 43.8





#4

n-Nitrosodimethylamine

Concen: 38.79 ng

RT: 3.320 min Scan# 86

Delta R.T. 0.091 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

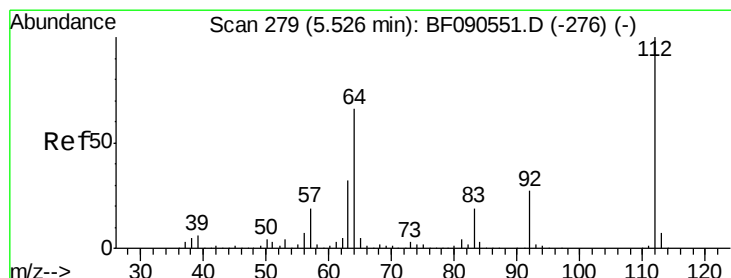
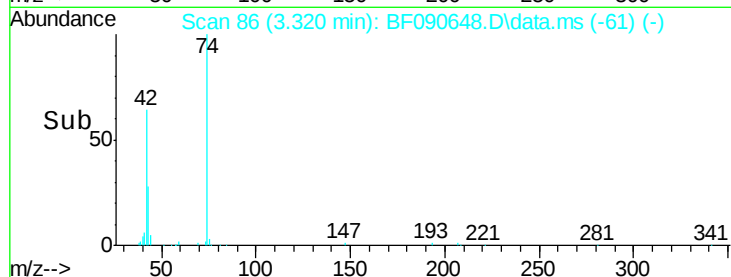
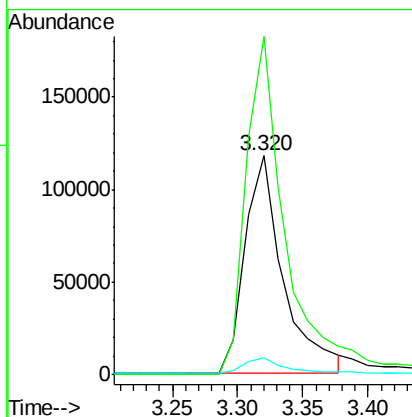
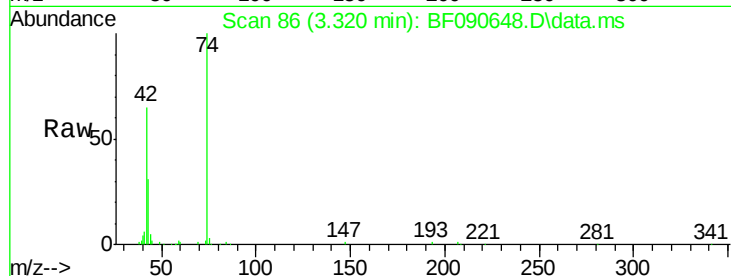
Tot Ion: 42 Resp: 242273

Ion Ratio Lower Upper

42 100

74 154.6 113.3 169.9

44 7.7 6.0 9.0



#5

2-Fluorophenol

Concen: 119.14 ng

RT: 5.514 min Scan# 278

Delta R.T. -0.000 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

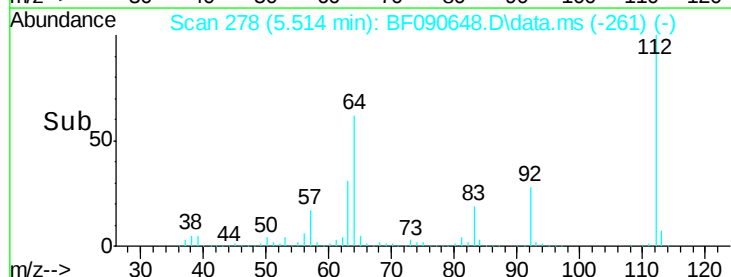
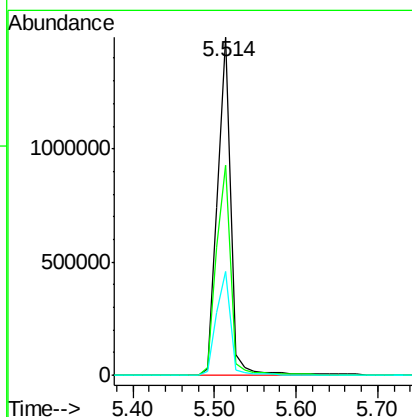
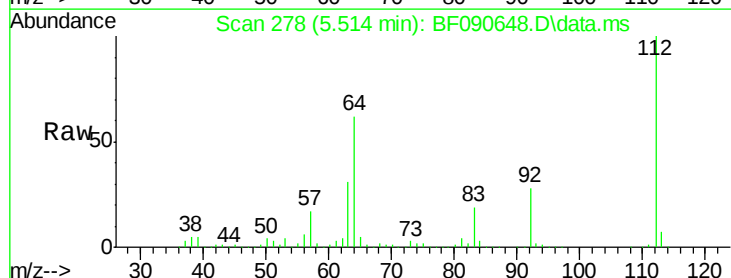
Tgt Ion: 112 Resp: 1698456

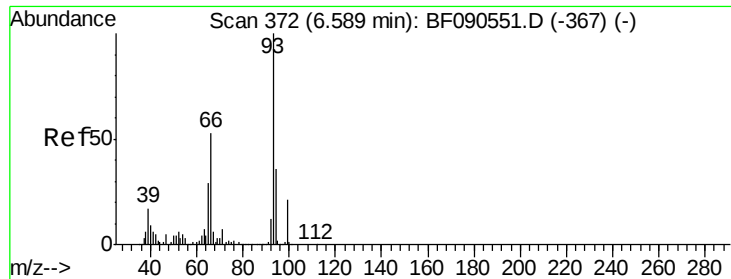
Ion Ratio Lower Upper

112 100

64 62.2 52.6 78.8

63 30.6 26.0 39.0





#6

Aniline

Concen: 12.65 ng

RT: 6.554 min Scan# 367

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

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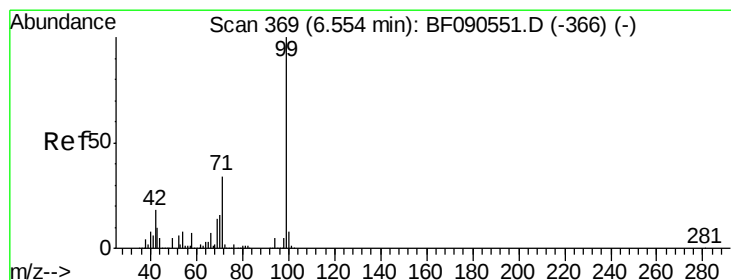
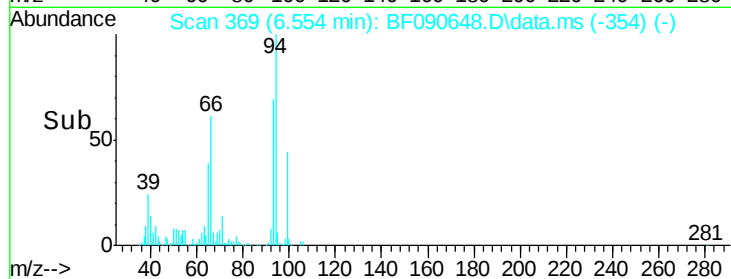
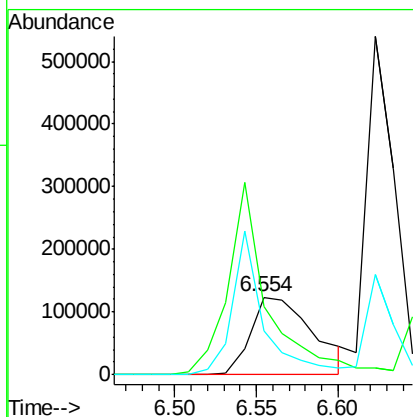
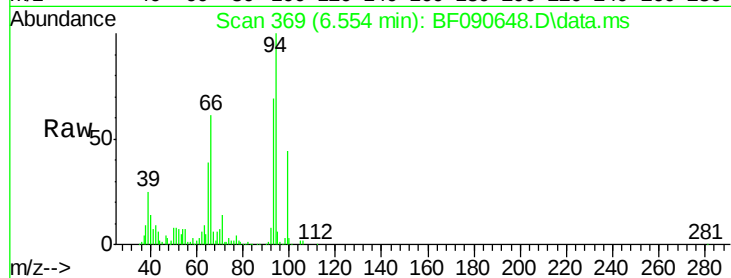
Tot Ion: 93 Resp: 323785

Ion Ratio Lower Upper

93 100

66 88.0 42.2 63.2#

65 56.6 22.9 34.3#



#7

Phenol-d6

Concen: 97.87 ng

RT: 6.531 min Scan# 367

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

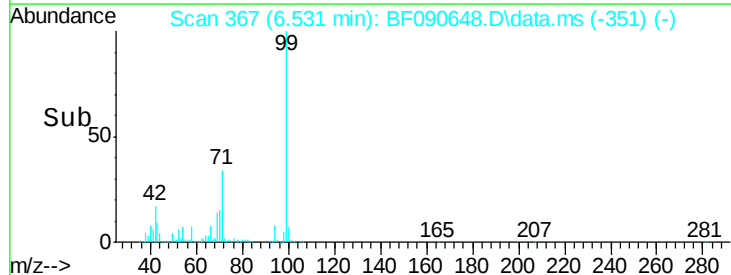
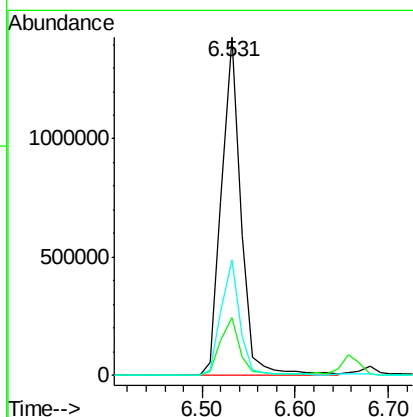
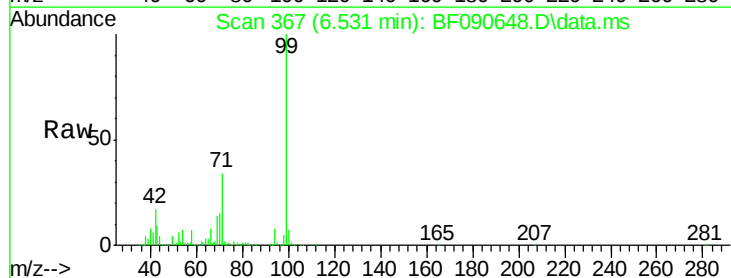
Tgt Ion: 99 Resp: 2073193

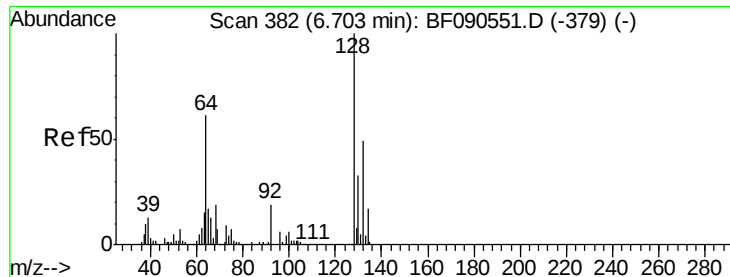
Ion Ratio Lower Upper

99 100

42 17.2 14.7 22.1

71 34.1 27.6 41.4





#8

2-Chlorophenol

Concen: 36.56 ng

RT: 6.680 min Scan# 38

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

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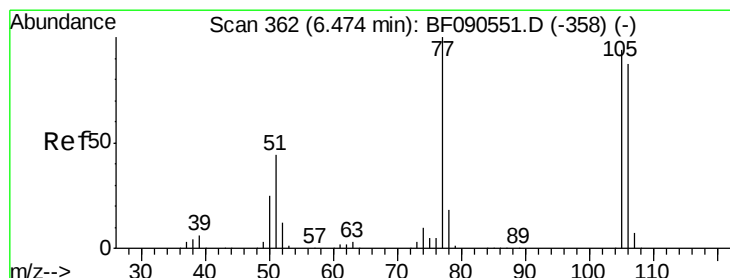
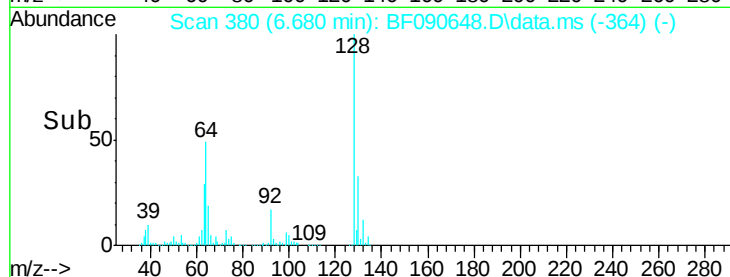
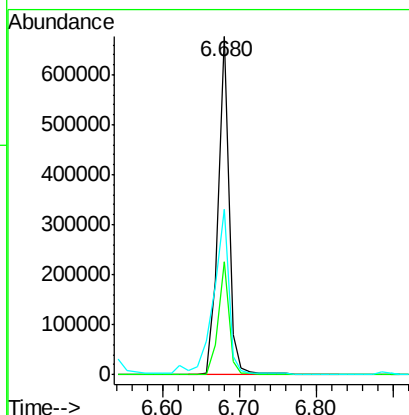
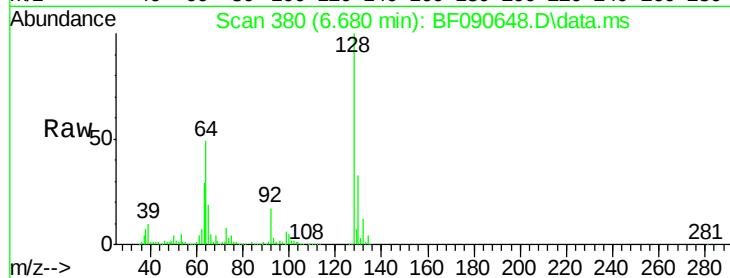
Tot Ion:128 Resp: 675880

Ion Ratio Lower Upper

128 100

130 33.3 12.6 52.6

64 48.9 42.6 82.6



#9

Benzaldehyde

Concen: 8.21 ng

RT: 6.440 min Scan# 359

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

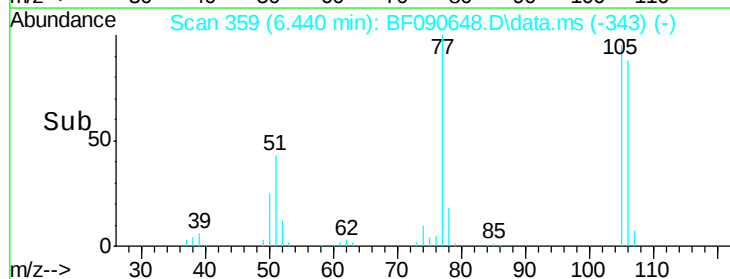
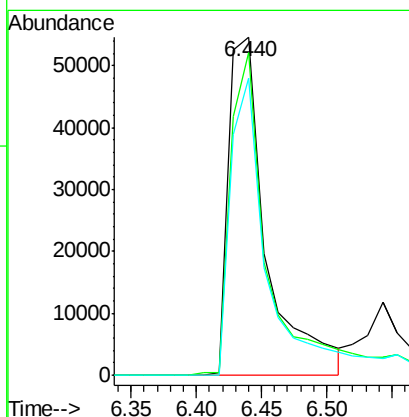
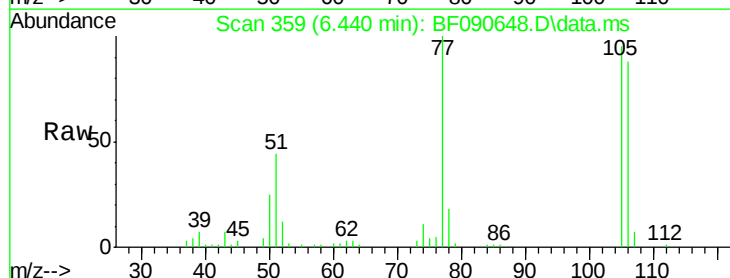
Tgt Ion: 77 Resp: 110513

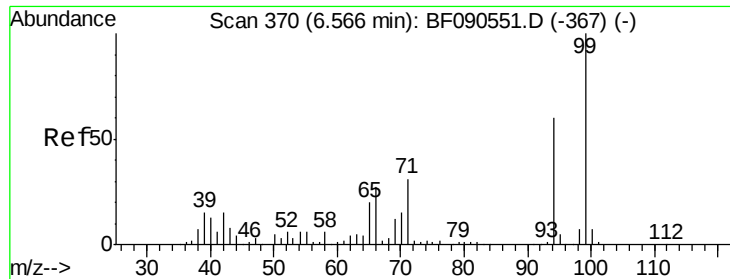
Ion Ratio Lower Upper

77 100

105 95.4 74.3 114.3

106 87.8 67.2 107.2





#10

Phenol

Concen: 31.44 ng

RT: 6.543 min Scan# 36

Delta R.T. -0.023 min

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Acq: 19 Oct 2016 15:31

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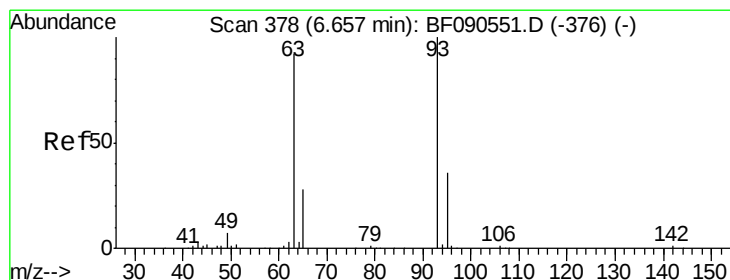
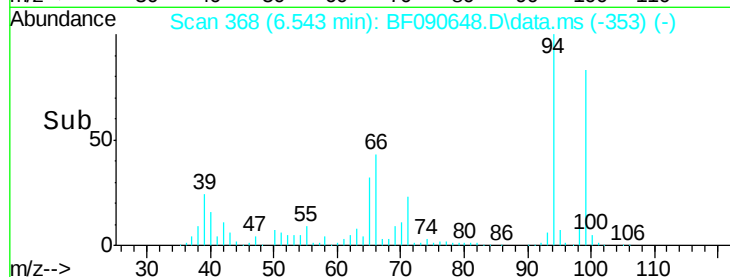
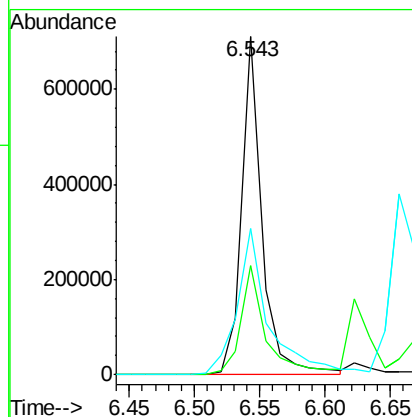
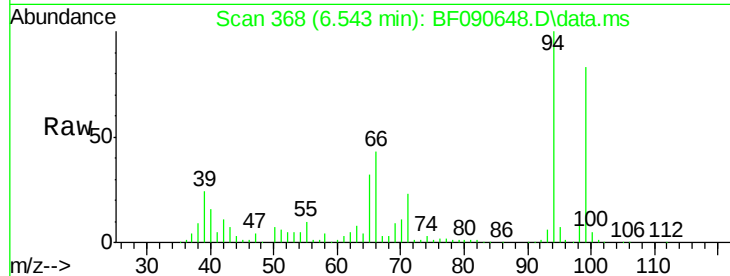
Tot Ion: 94 Resp: 761622

Ion Ratio Lower Upper

94 100

65 32.2 12.5 52.5

66 43.3 25.5 65.5



#11

bis(2-Chloroethyl)ether

Concen: 34.62 ng

RT: 6.623 min Scan# 375

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

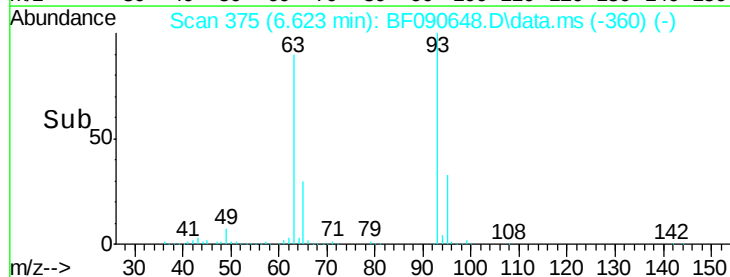
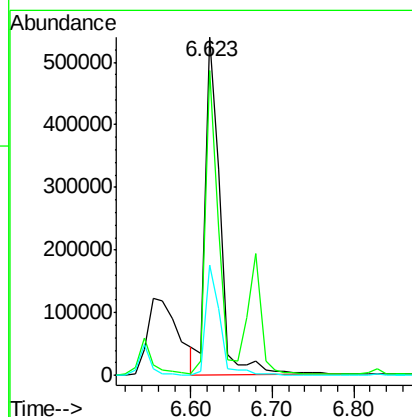
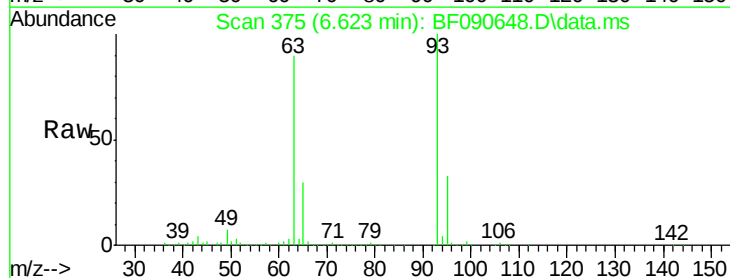
Tgt Ion: 93 Resp: 692007

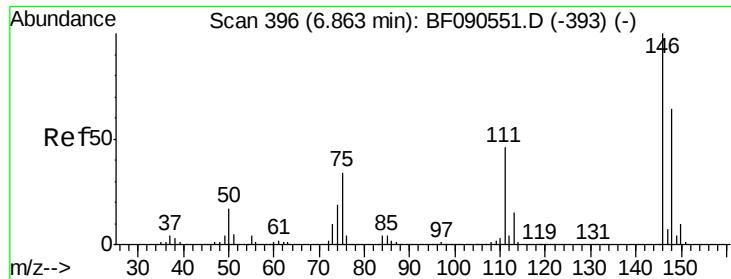
Ion Ratio Lower Upper

93 100

63 90.3 61.6 101.6

95 32.6 11.8 51.8





#12

1,3-Dichlorobenzene

Concen: 34.16 ng

RT: 6.829 min Scan# 39

Delta R.T. -0.023 min

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SOIL-CUTTINGSMSD

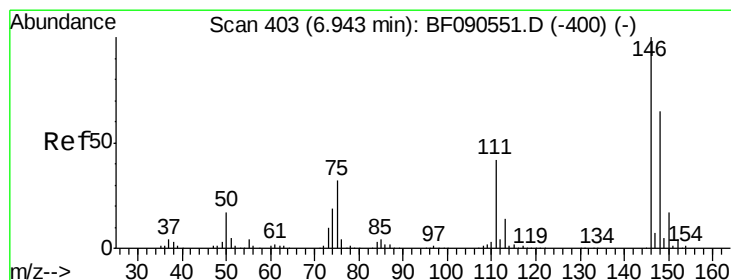
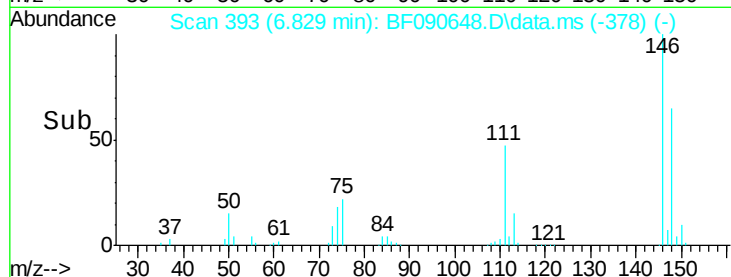
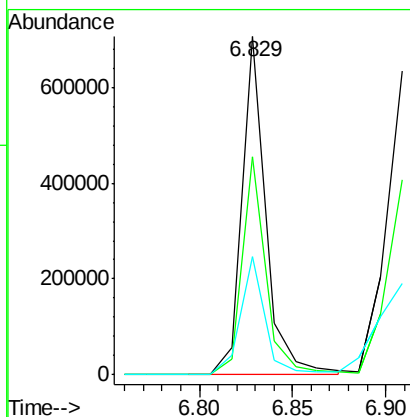
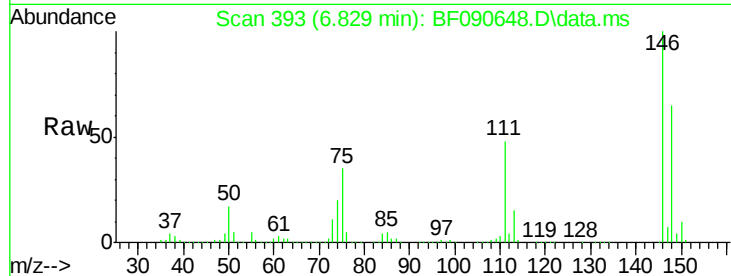
Tot Ion:146 Resp: 629681

Ion Ratio Lower Upper

146 100

148 64.5 51.4 77.2

75 35.1 27.0 40.6



#13

1,4-Dichlorobenzene

Concen: 32.68 ng

RT: 6.909 min Scan# 400

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

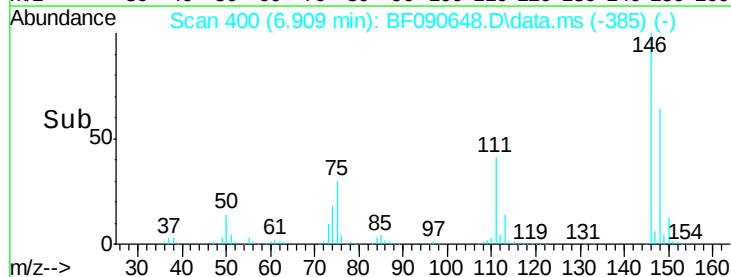
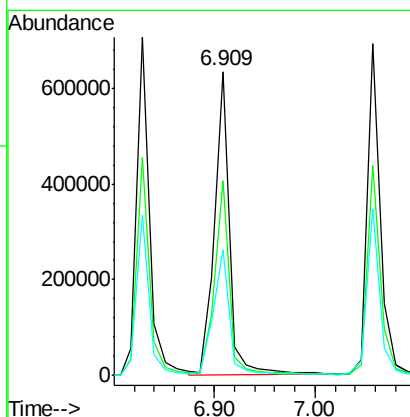
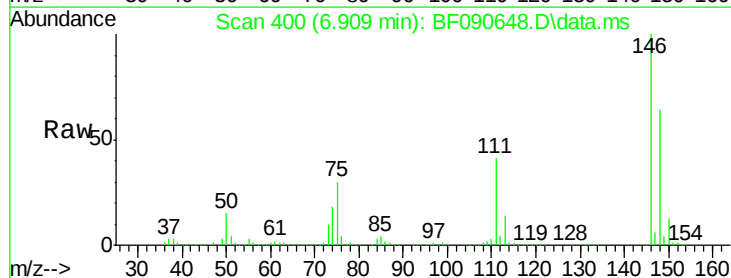
Tgt Ion:146 Resp: 655146

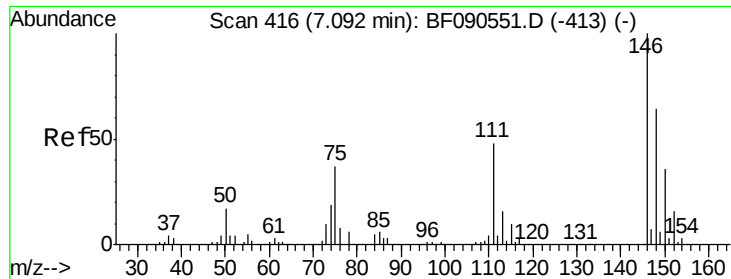
Ion Ratio Lower Upper

146 100

148 63.9 51.9 77.9

111 41.4 33.7 50.5





#14

1,2-Dichlorobenzene

Concen: 33.19 ng

RT: 7.057 min Scan# 41

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

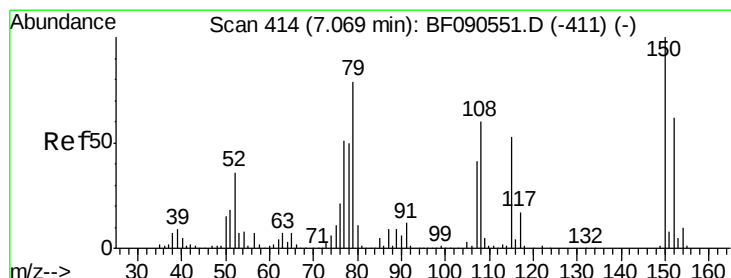
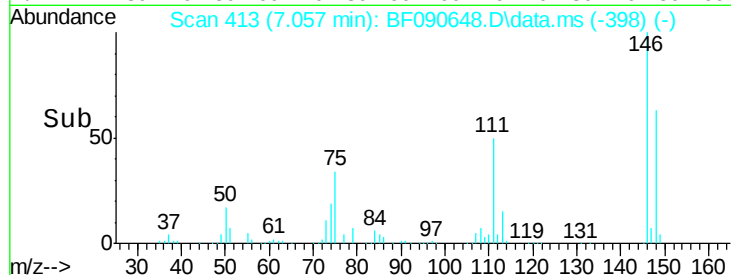
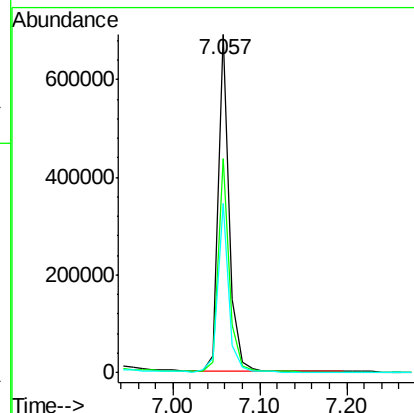
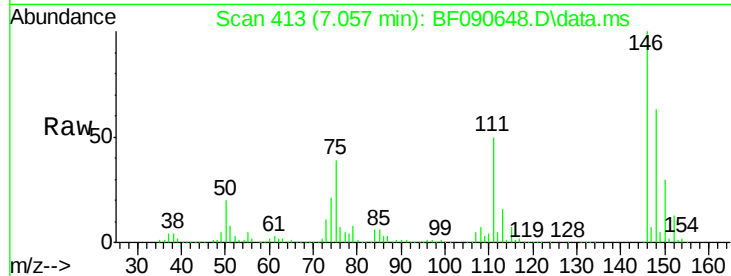
Tot Ion:146 Resp: 622047

Ion Ratio Lower Upper

146 100

148 63.4 51.2 76.8

111 50.1 38.2 57.2



#15

Benzyl Alcohol

Concen: 41.22 ng

RT: 7.034 min Scan# 411

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

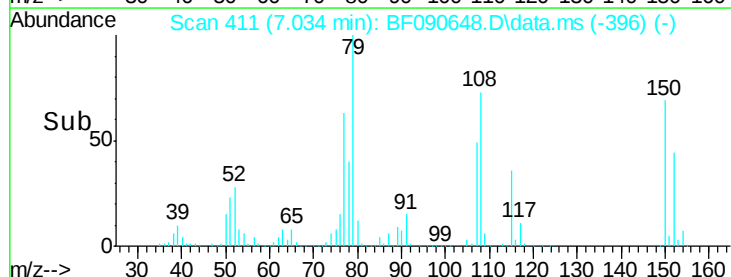
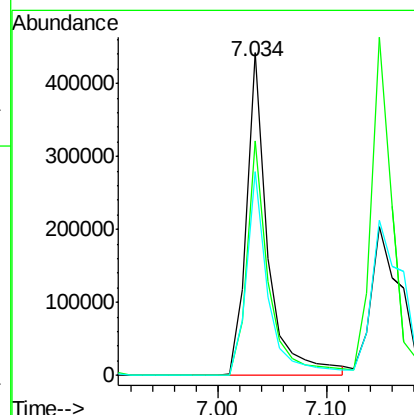
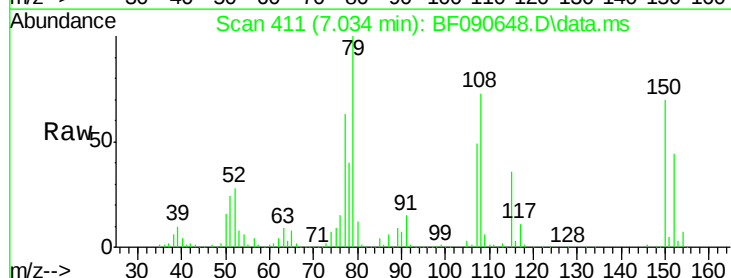
Tgt Ion: 79 Resp: 594766

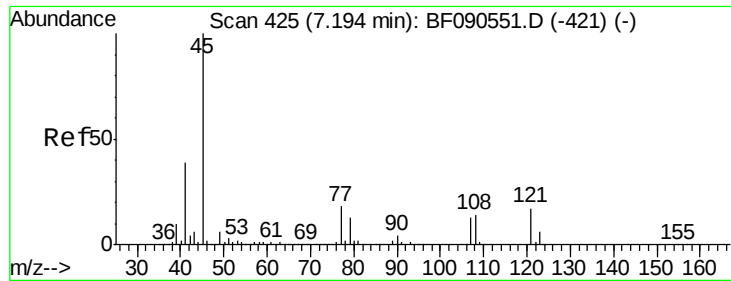
Ion Ratio Lower Upper

79 100

108 72.7 60.2 90.4

77 62.9 52.0 78.0

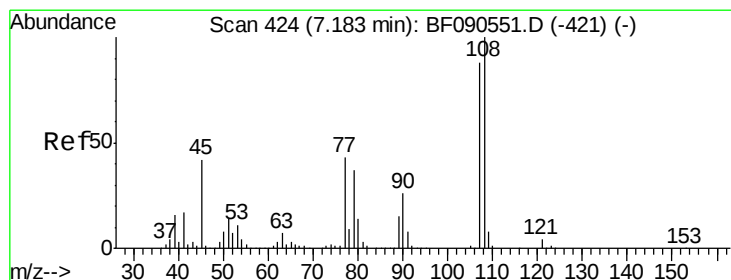
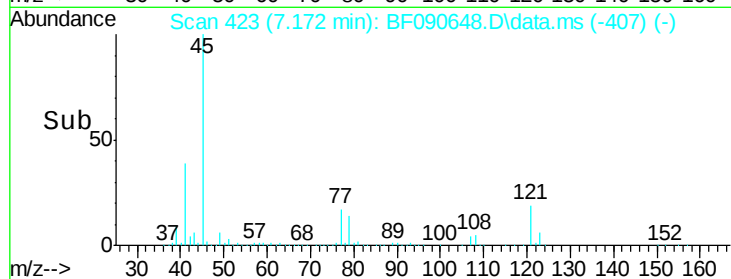
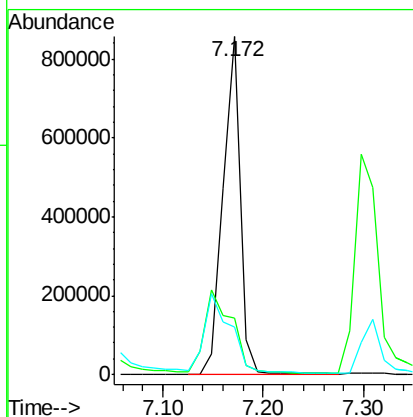
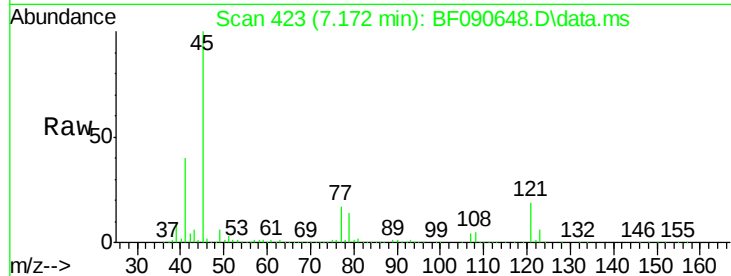




#16
2,2'-oxvbis(1-Chloropropane)
Concen: 36.11 ng
RT: 7.172 min Scan# 421
Delta R.T. -0.012 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

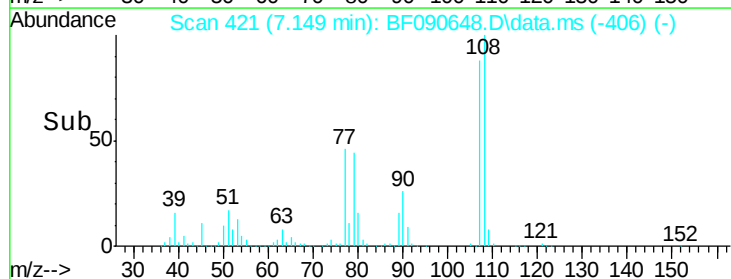
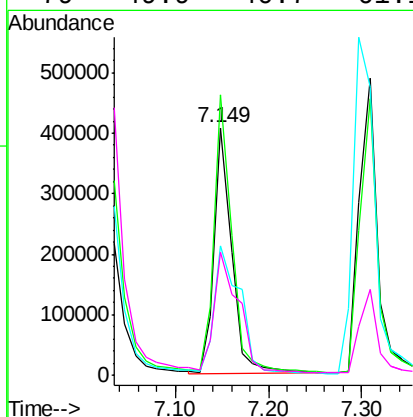
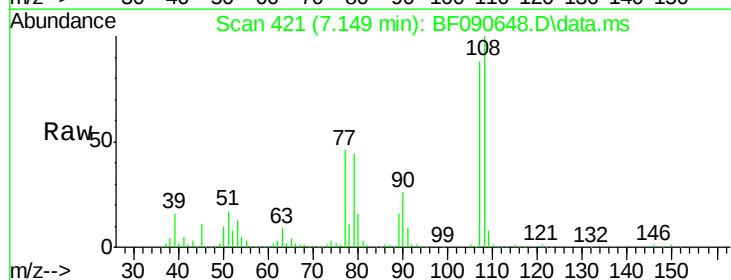
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

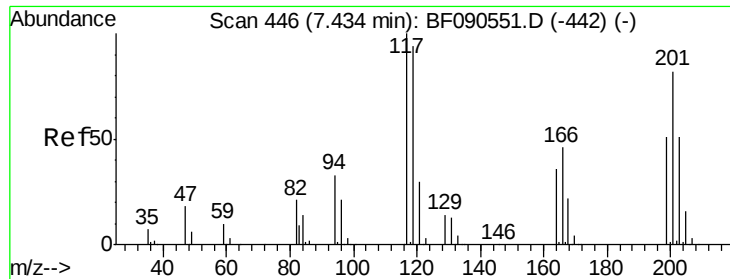
Tot Ion: 45 Resp: 1015701
Ion Ratio Lower Upper
45 100
77 16.6 0.9 40.9
79 13.9 0.0 37.3



#17
2-Methylphenol
Concen: 37.66 ng
RT: 7.149 min Scan# 421
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion: 107 Resp: 542524
Ion Ratio Lower Upper
107 100
108 113.1 92.6 138.8
77 52.0 42.2 63.2
79 49.9 40.7 61.1

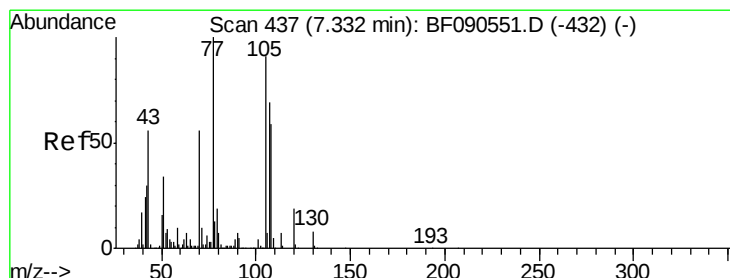
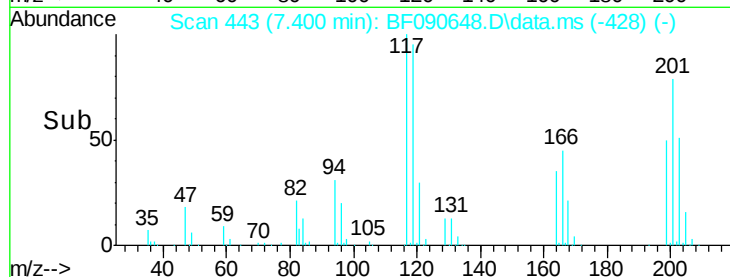
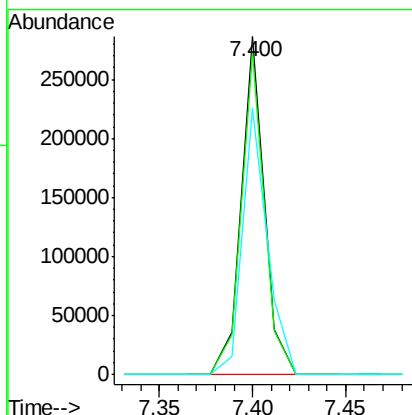
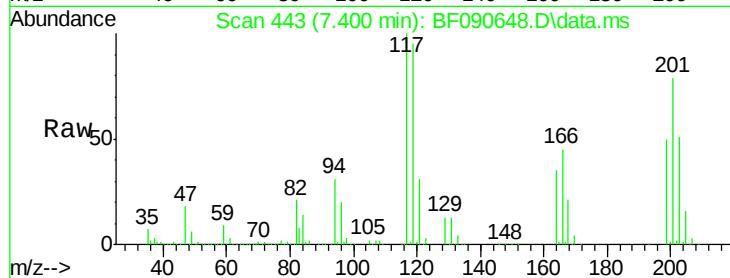




#18
Hexachloroethane
Concen: 31.29 ng
RT: 7.400 min Scan# 44
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

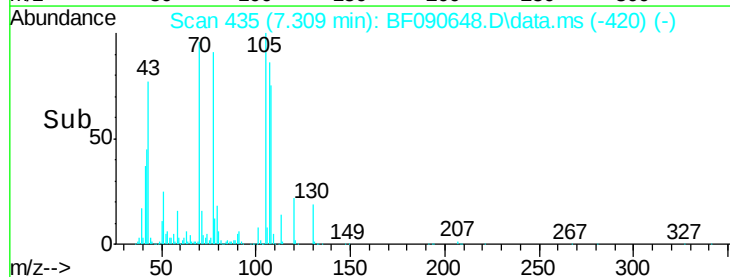
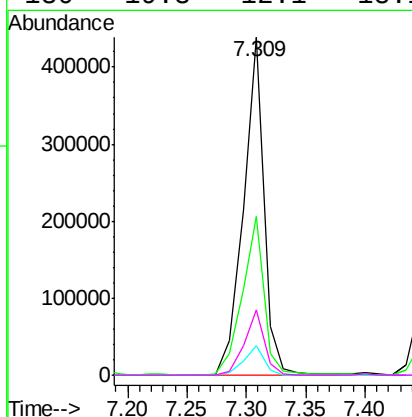
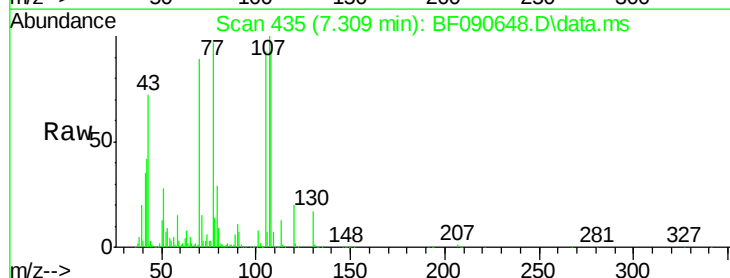
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

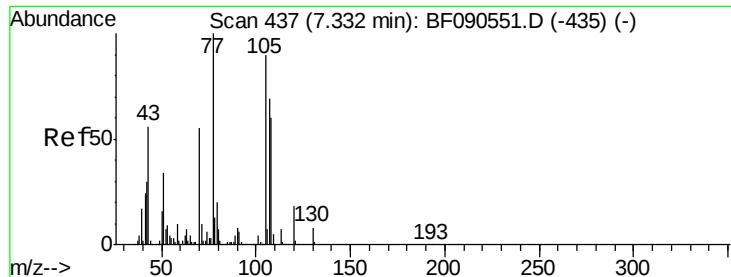
Tot Ion:117 Resp: 247927
Ion Ratio Lower Upper
117 100
119 95.2 75.6 113.4
201 78.7 65.4 98.0



#19
n-Nitroso-di-n-propylamine
Concen: 36.81 ng
RT: 7.309 min Scan# 435
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion: 70 Resp: 534699
Ion Ratio Lower Upper
70 100
42 47.0 43.4 65.0
101 8.8 6.4 9.6
130 19.3 12.1 18.1#





#20

3+4-Methylphenols

Concen: 38.54 ng

RT: 7.309 min Scan# 43

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tot Ion:107 Resp: 673117

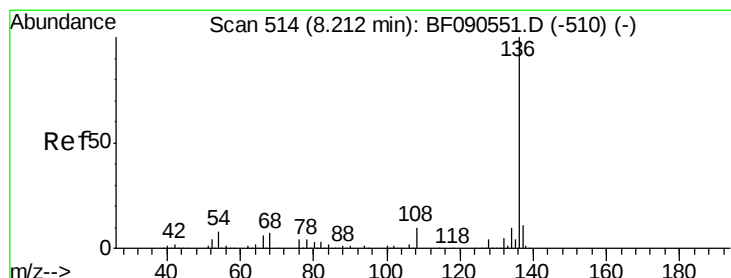
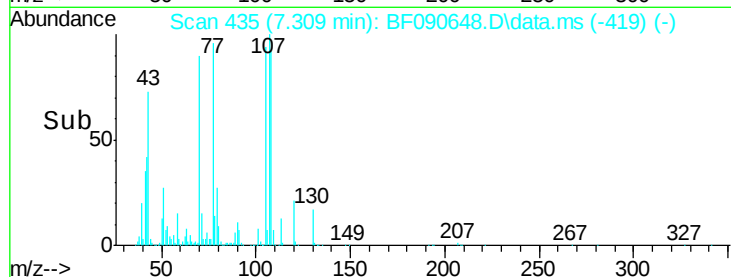
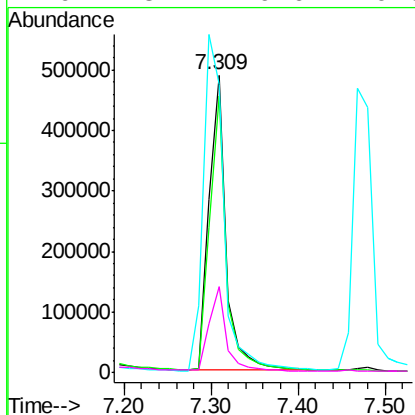
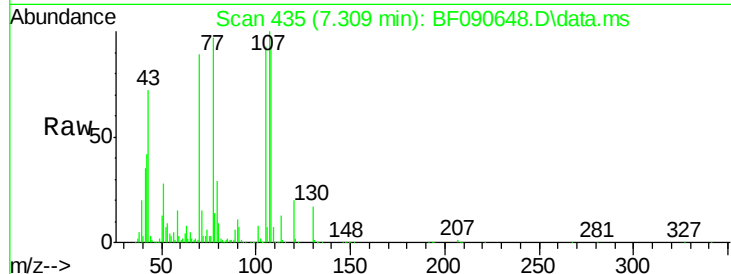
Ion Ratio Lower Upper

107 100

108 92.9 67.7 107.7

77 96.7 123.1 163.1#

79 28.7 9.6 49.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.177 min Scan# 511

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Tgt Ion:136 Resp: 1188693

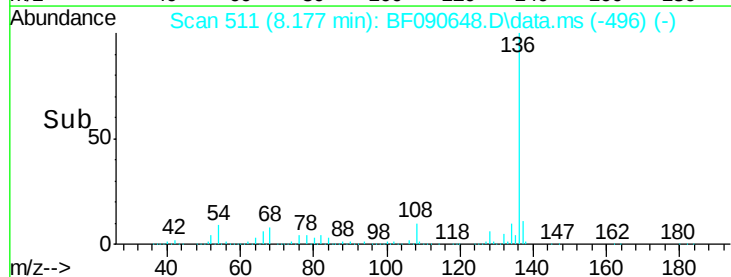
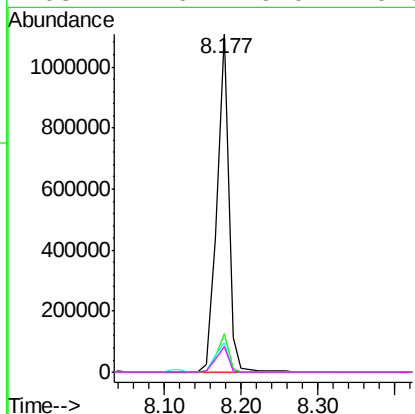
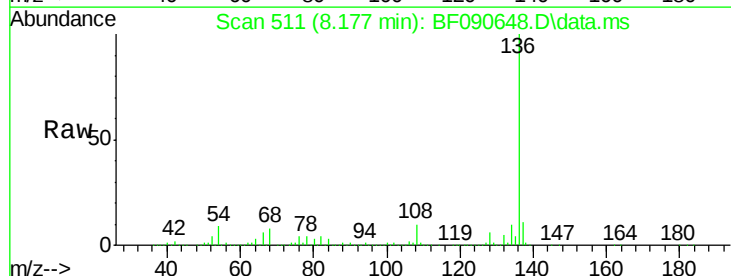
Ion Ratio Lower Upper

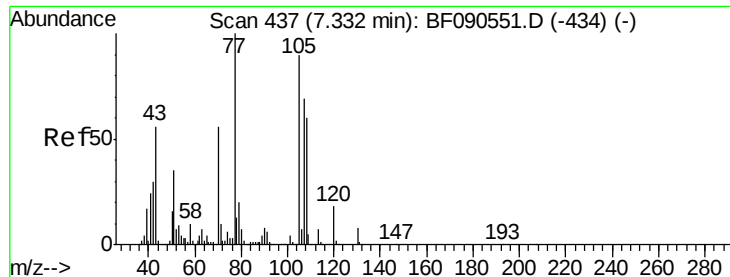
136 100

137 11.3 8.8 13.2

54 8.7 6.8 10.2

68 7.6 6.0 9.0





#22

Acetophenone

Concen: 34.63 ng

RT: 7.297 min Scan# 43

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tot Ion:105 Resp: 909305

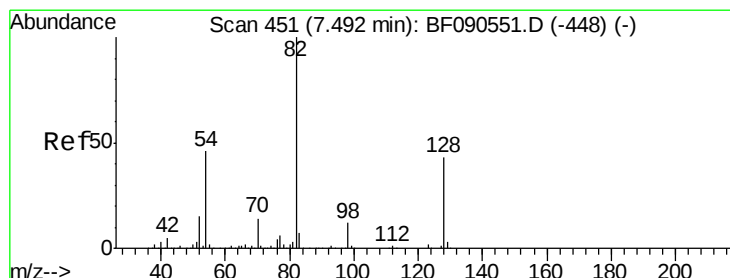
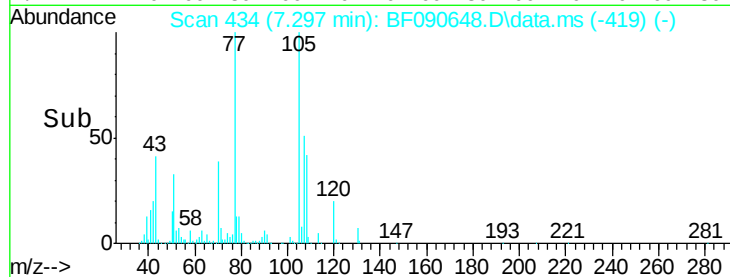
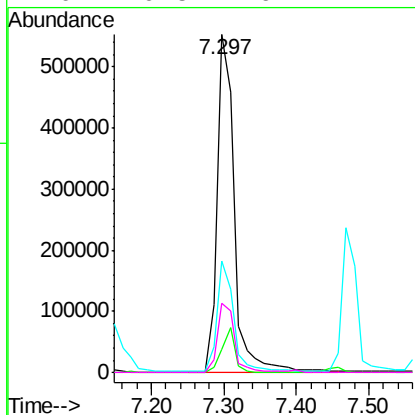
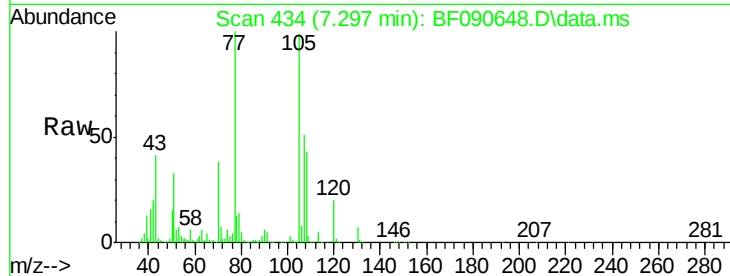
Ion Ratio Lower Upper

105 100

71 6.8 8.5 12.7#

51 33.1 31.0 46.4

120 20.5 16.2 24.4



#23

Nitrobenzene-d5

Concen: 66.87 ng

RT: 7.457 min Scan# 448

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

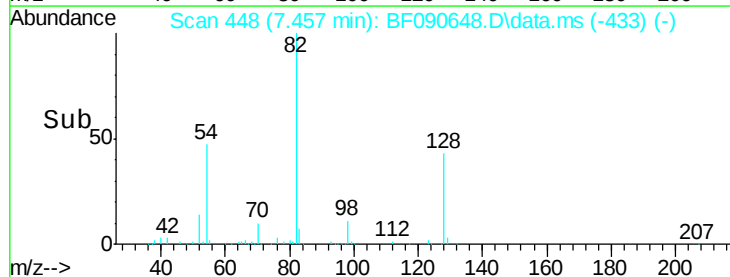
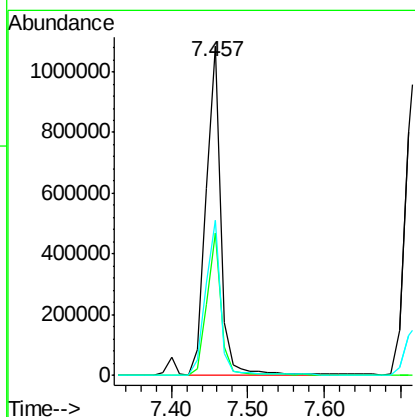
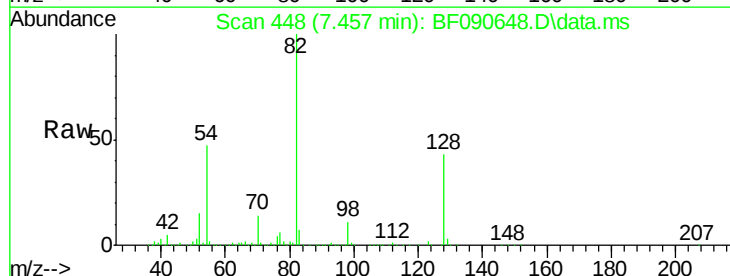
Tgt Ion: 82 Resp: 1430889

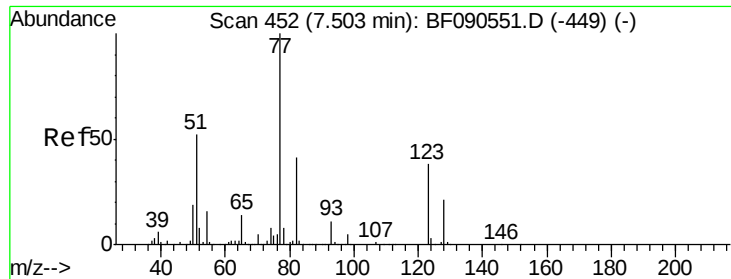
Ion Ratio Lower Upper

82 100

128 43.5 34.3 51.5

54 47.0 37.0 55.6

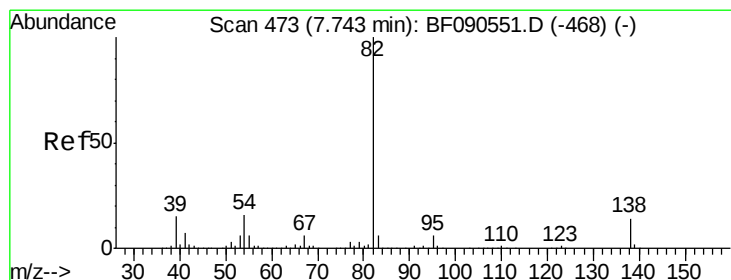
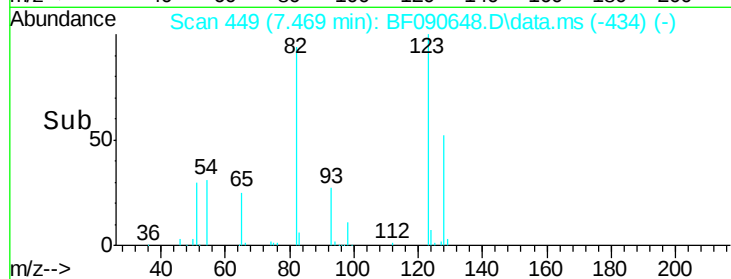
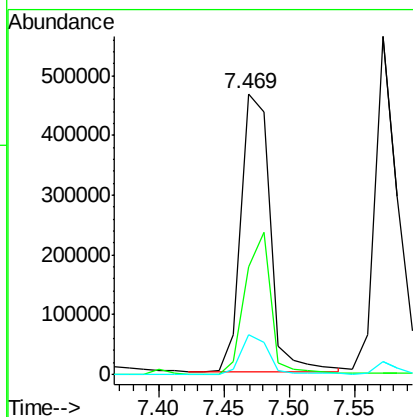
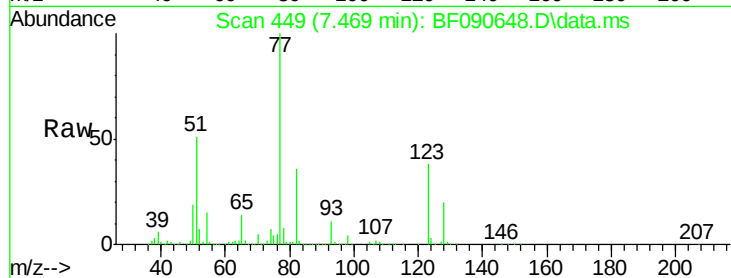




#24
Nitrobenzene
Concen: 32.76 ng
RT: 7.469 min Scan# 449
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

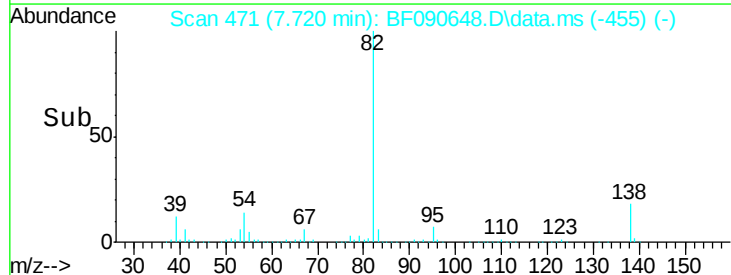
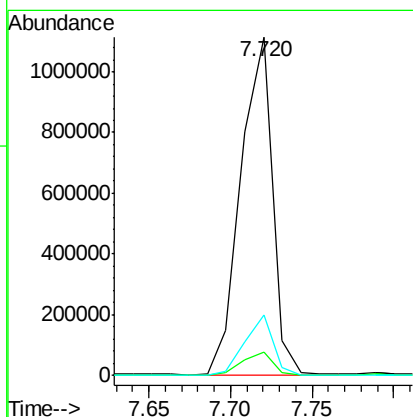
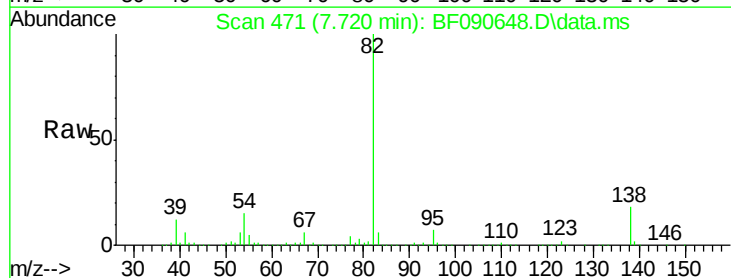
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

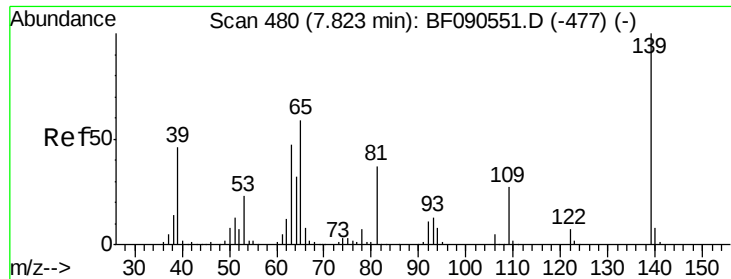
Tot Ion	Ratio	Lower	Upper
77	100		
123	38.4	29.8	44.6
65	14.1	10.9	16.3



#25
Isophorone
Concen: 38.49 ng
RT: 7.720 min Scan# 471
Delta R.T. -0.012 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.0	7.6
138	17.8	11.5	17.3#

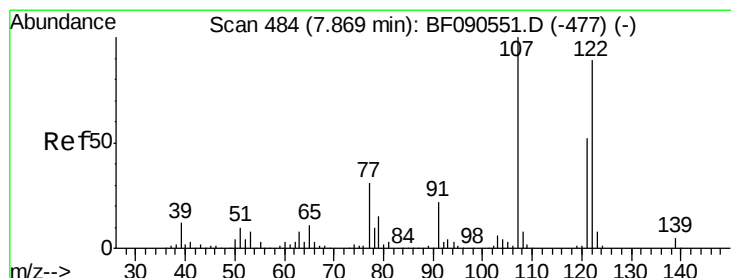
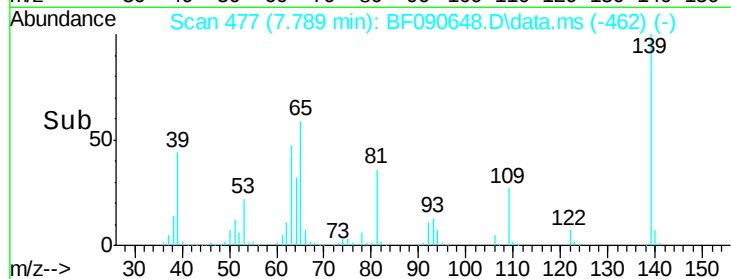
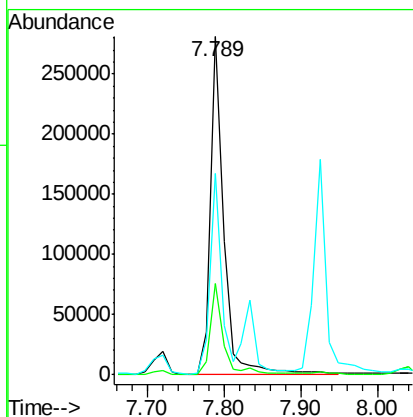
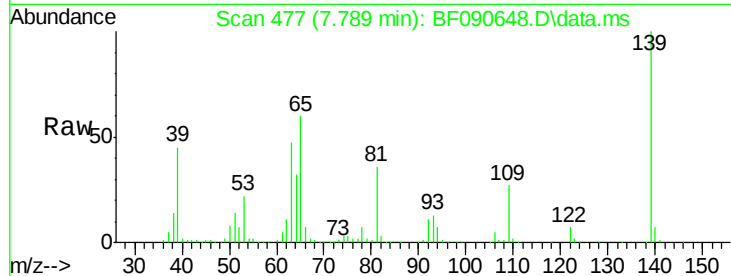




#26
2-Nitrophenol
Concen: 33.75 ng
RT: 7.789 min Scan# 47
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

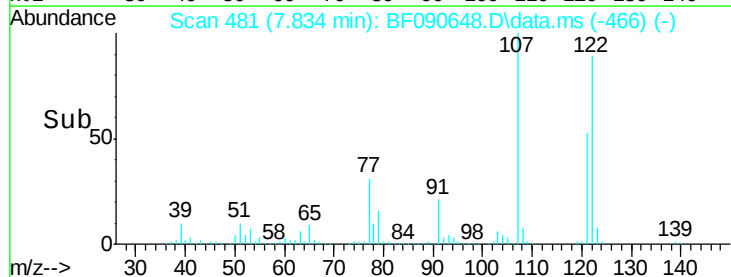
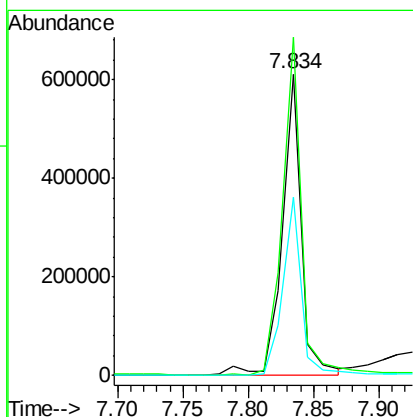
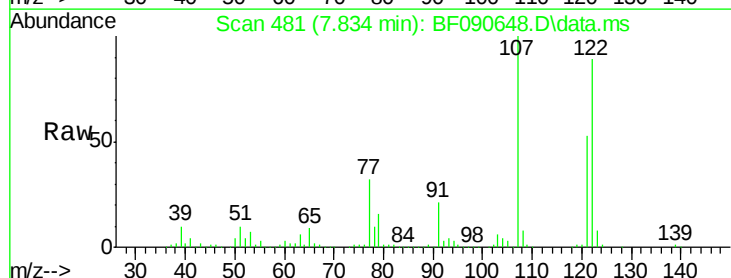
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

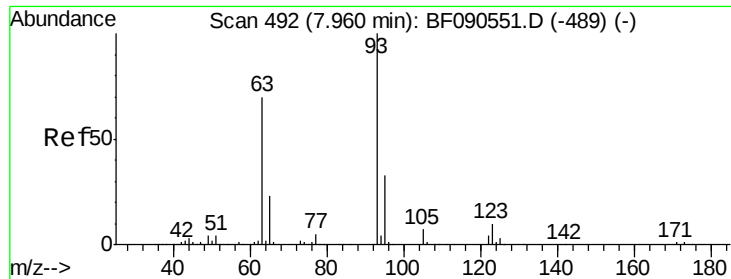
Tot Ion:139 Resp: 336259
Ion Ratio Lower Upper
139 100
109 26.8 21.8 32.6
65 59.6 47.7 71.5



#27
2,4-Dimethylphenol
Concen: 38.13 ng
RT: 7.834 min Scan# 481
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion:122 Resp: 630481
Ion Ratio Lower Upper
122 100
107 112.2 89.8 134.6
121 59.0 46.1 69.1

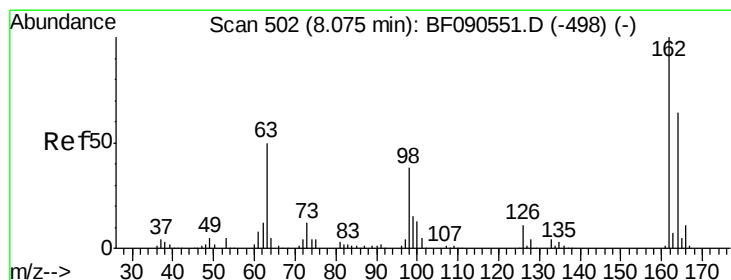
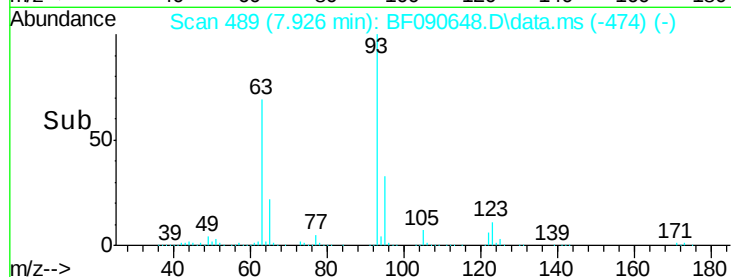
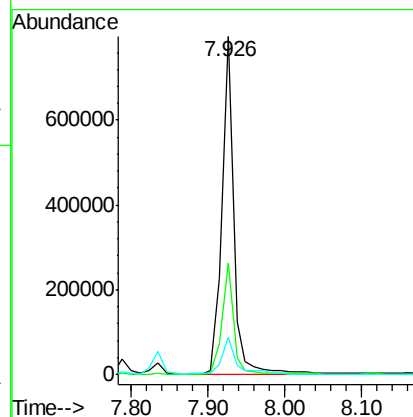
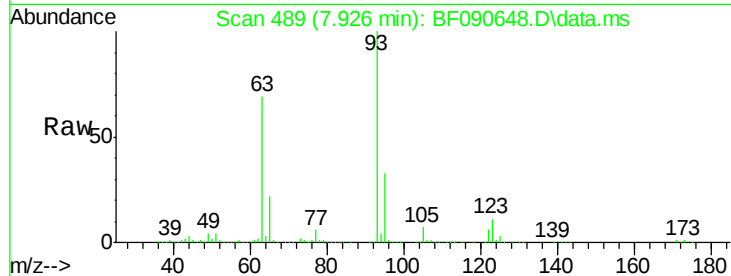




#28
 bis(2-Chloroethoxy)methane
 Concen: 37.44 ng
 RT: 7.926 min Scan# 48
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

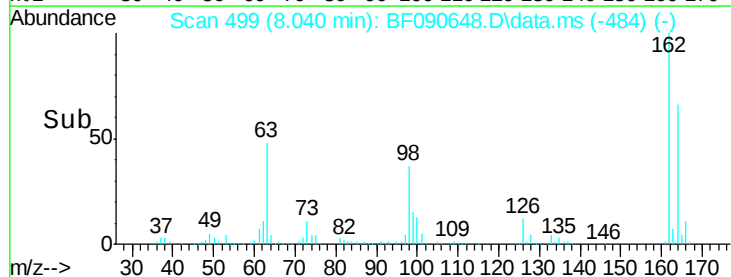
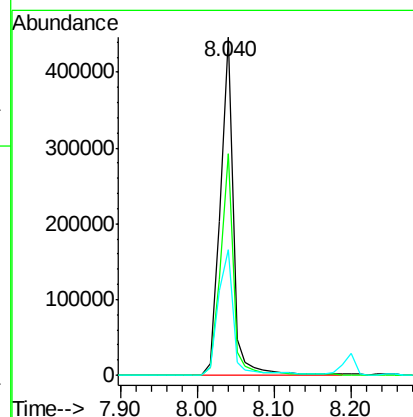
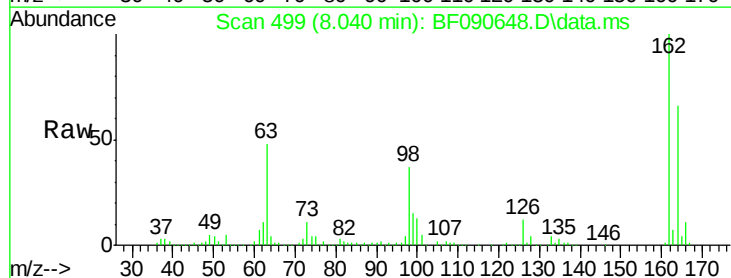
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

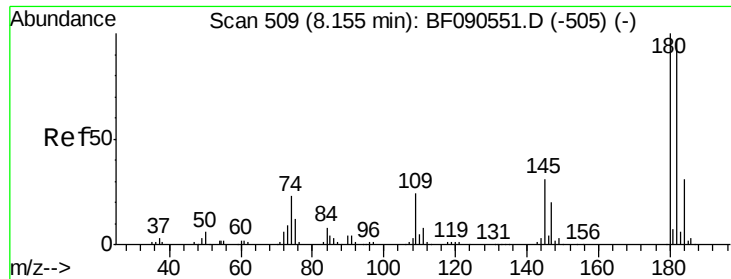
Tot Ion: 93 Resp: 861054
 Ion Ratio Lower Upper
 93 100
 95 33.1 26.2 39.2
 123 11.0 8.6 13.0



#29
 2,4-Dichlorophenol
 Concen: 36.56 ng
 RT: 8.040 min Scan# 499
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

Tgt Ion: 162 Resp: 529501
 Ion Ratio Lower Upper
 162 100
 164 65.6 44.0 84.0
 98 37.0 18.0 58.0

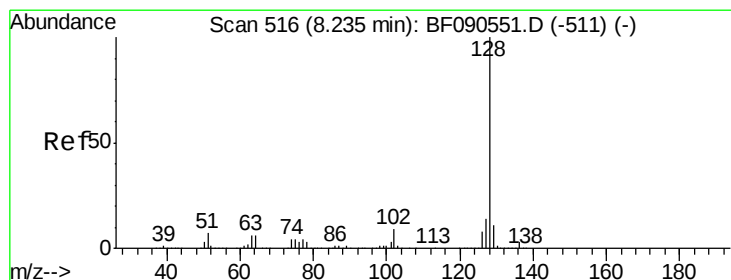
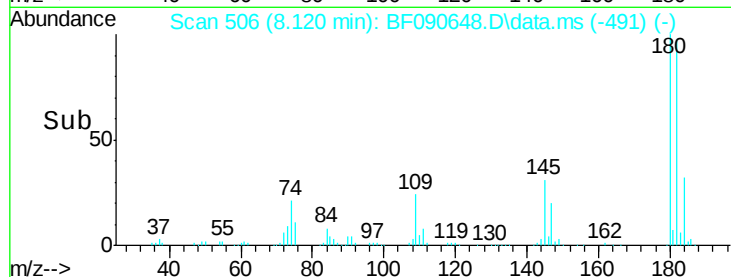
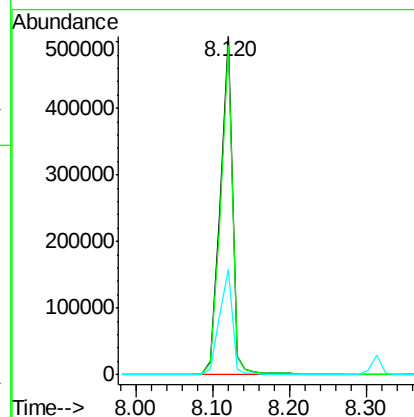
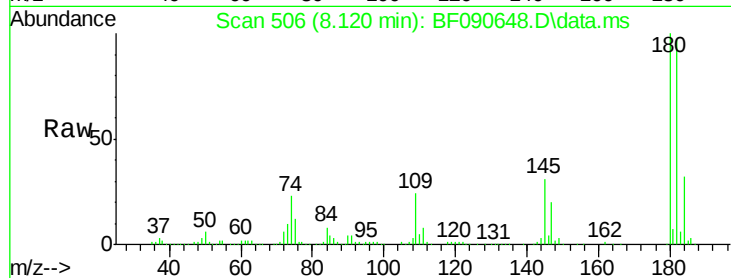




#30
 1,2,4-Trichlorobenzene
 Concen: 32.85 ng
 RT: 8.120 min Scan# 50
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

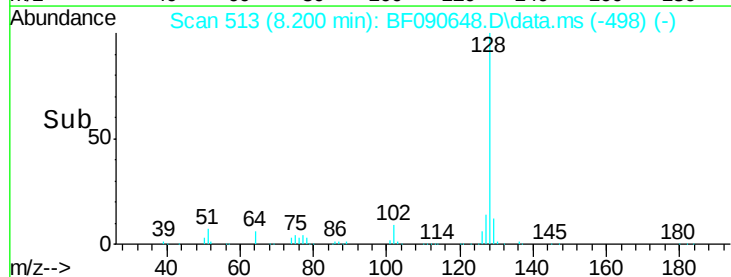
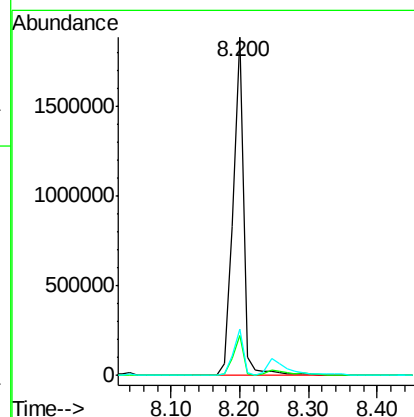
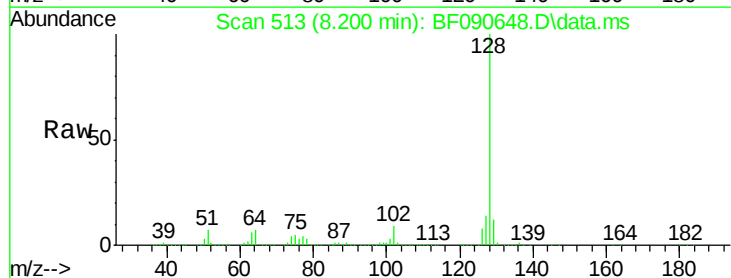
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

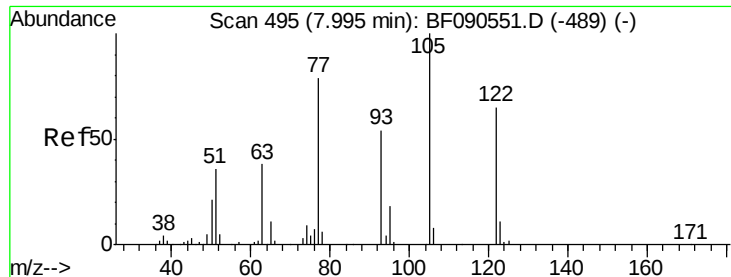
Tot Ion:180 Resp: 557187
 Ion Ratio Lower Upper
 180 100
 182 97.2 77.2 115.8
 145 31.1 24.4 36.6



#31
 Naphthalene
 Concen: 33.92 ng
 RT: 8.200 min Scan# 513
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

Tgt Ion:128 Resp: 2054056
 Ion Ratio Lower Upper
 128 100
 129 11.7 9.0 13.6
 127 13.8 10.8 16.2





#32

Benzoic acid

Concen: 34.88 ng

RT: 7.972 min Scan# 49

Delta R.T. -0.035 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

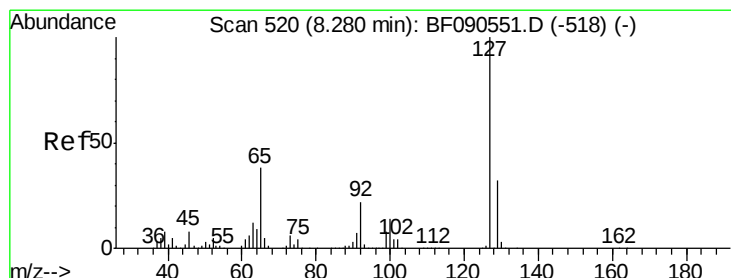
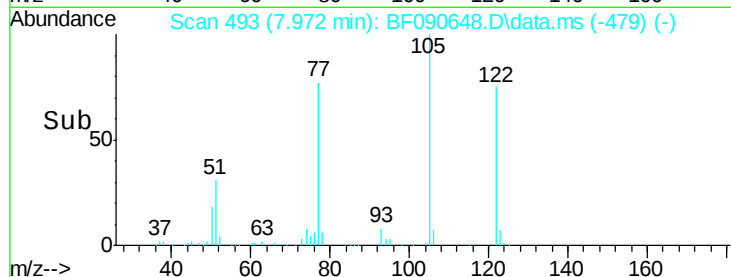
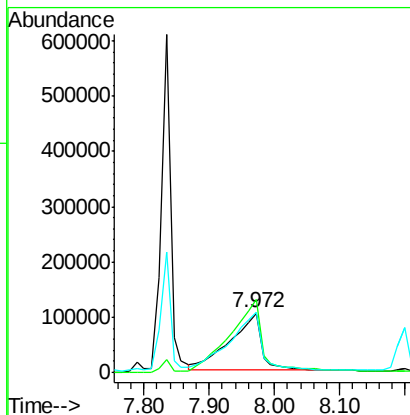
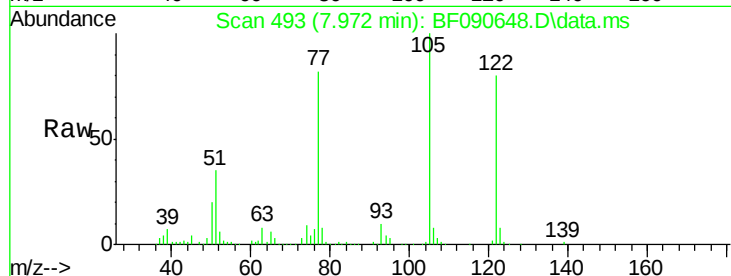
Tot Ion:122 Resp: 354168

Ion Ratio Lower Upper

122 100

105 124.3 101.1 141.1

77 101.6 84.7 124.7



#33

4-Chloroaniline

Concen: 7.77 ng

RT: 8.246 min Scan# 517

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Tgt Ion:127 Resp: 179833

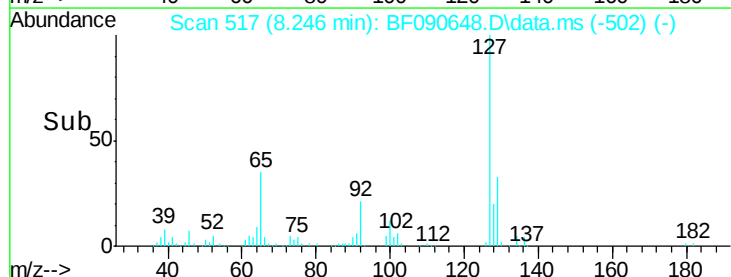
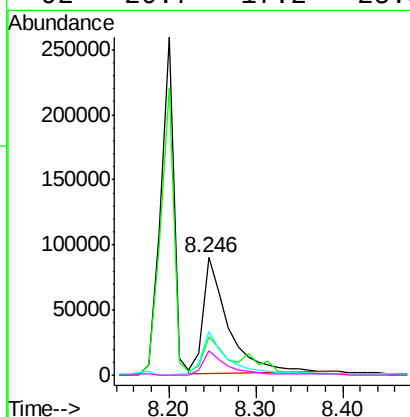
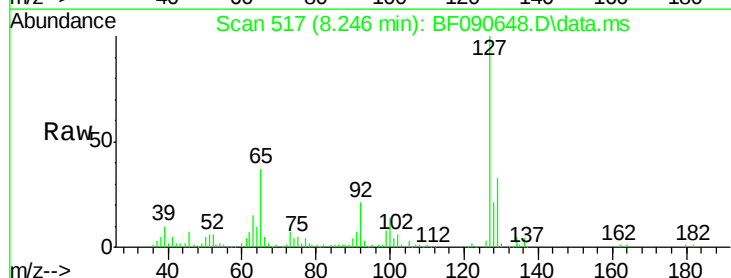
Ion Ratio Lower Upper

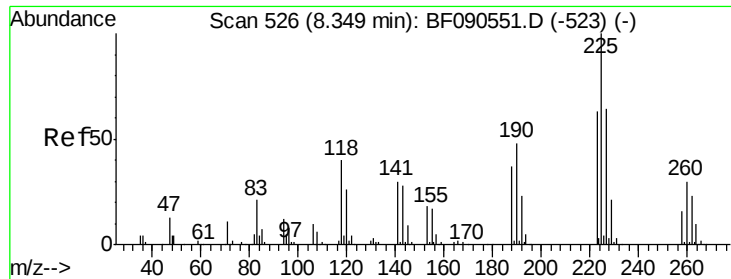
127 100

129 33.3 26.2 39.2

65 37.0 30.1 45.1

92 20.7 17.2 25.8

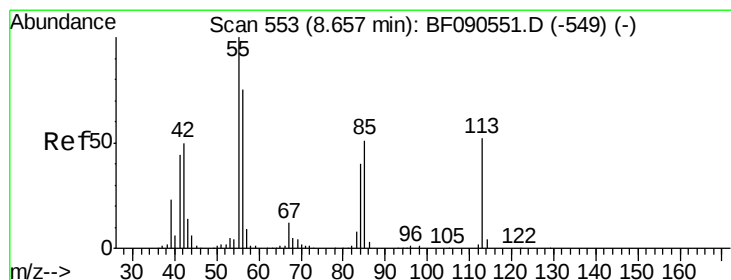
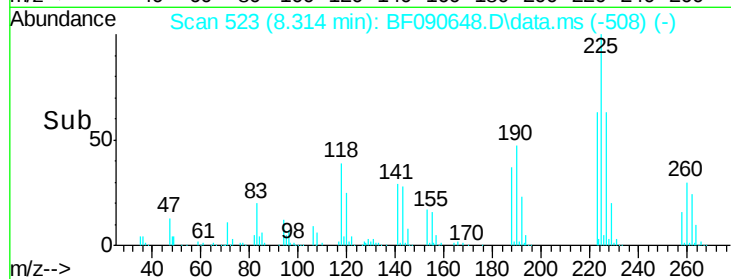
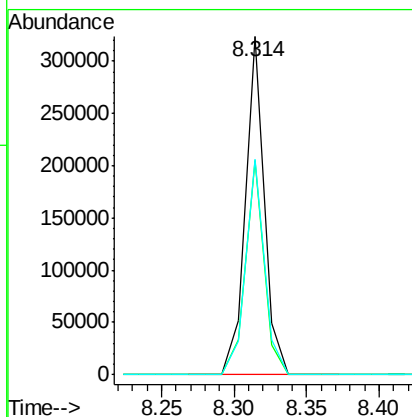
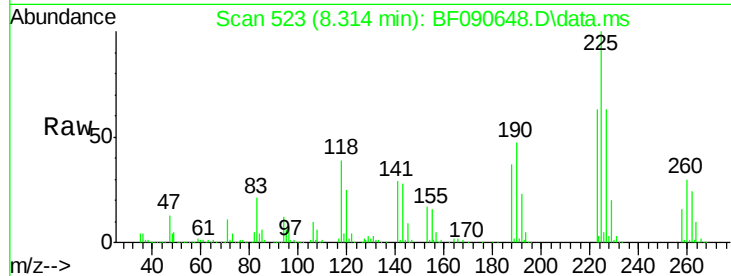




#34
Hexachlorobutadiene
Concen: 30.89 ng
RT: 8.314 min Scan# 52
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

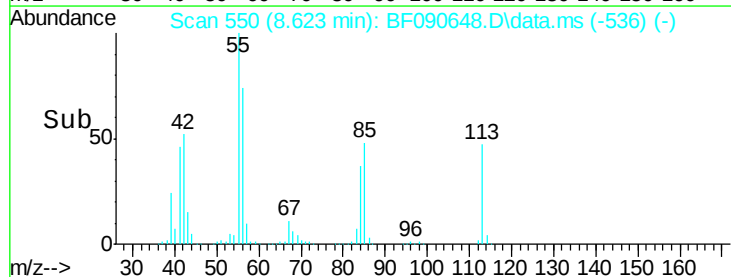
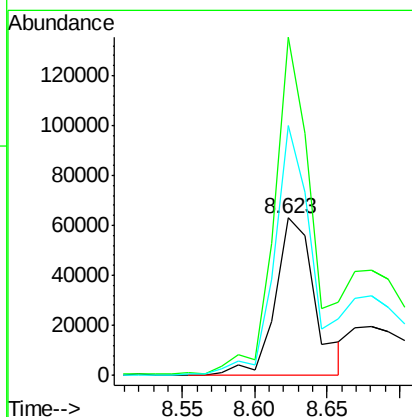
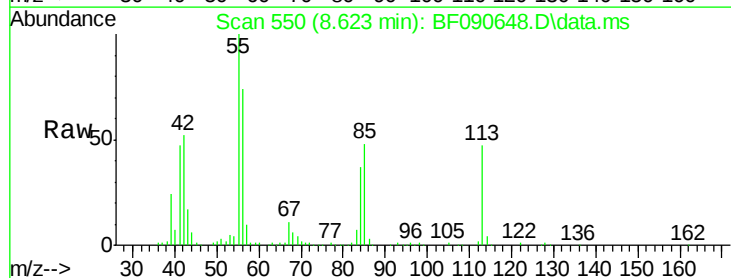
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

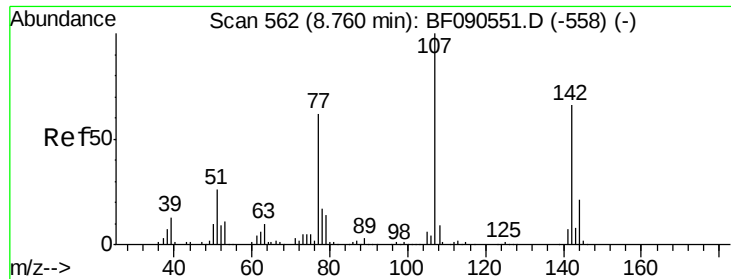
Tot Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	76.0
227	63.5	51.4	77.2



#35
Caprolactam
Concen: 29.54 ng
RT: 8.623 min Scan# 550
Delta R.T. -0.035 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion	Ratio	Lower	Upper
113	100		
55	214.6	170.8	210.8#
56	158.9	122.4	162.4

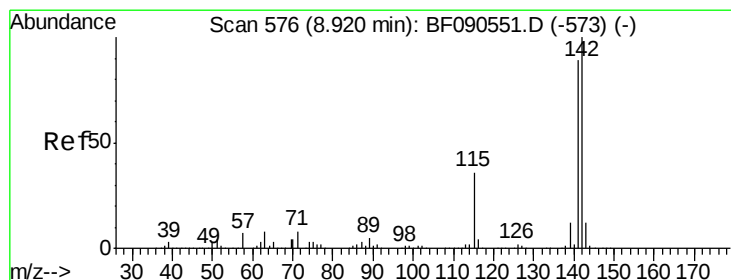
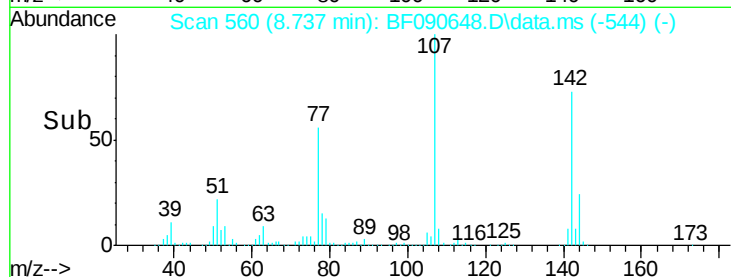
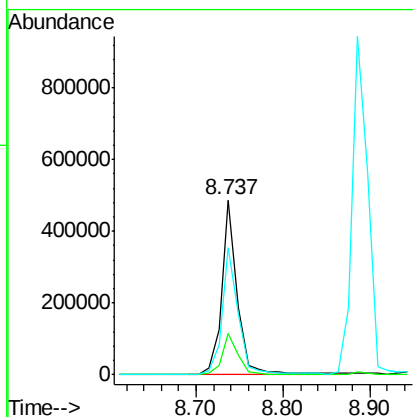
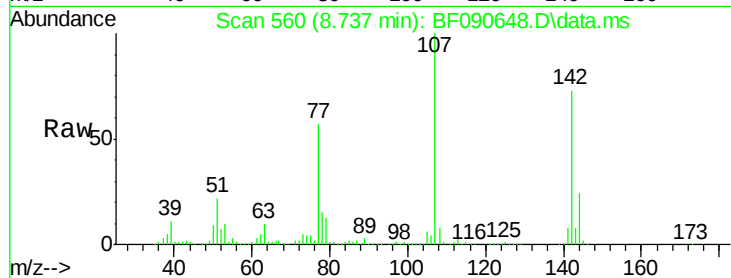




#36
 4-Chloro-3-methylphenol
 Concen: 36.56 ng
 RT: 8.737 min Scan# 56
 Delta R.T. -0.012 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

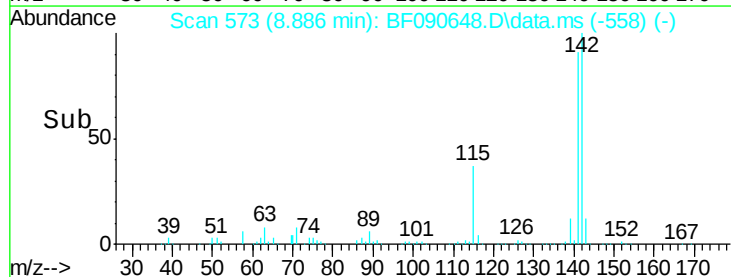
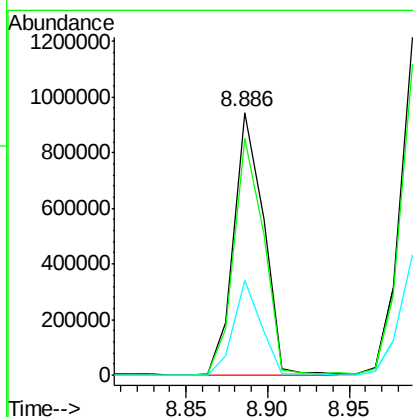
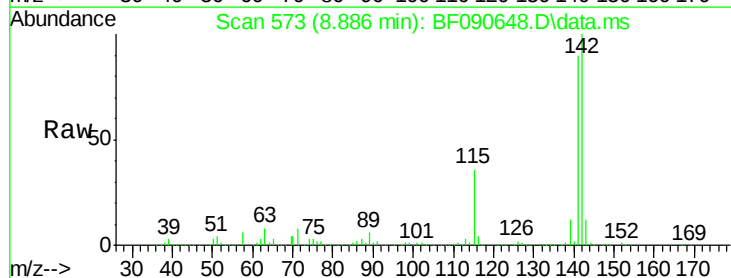
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

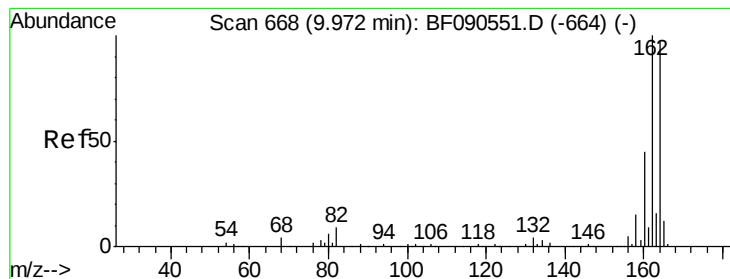
Tot Ion:107 Resp: 610792
 Ion Ratio Lower Upper
 107 100
 144 23.5 16.9 25.3
 142 72.9 52.5 78.7



#37
 2-Methylnaphthalene
 Concen: 33.43 ng
 RT: 8.886 min Scan# 573
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

Tgt Ion:142 Resp: 1188805
 Ion Ratio Lower Upper
 142 100
 141 90.0 71.3 106.9
 115 36.3 28.8 43.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.937 min Scan# 66

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

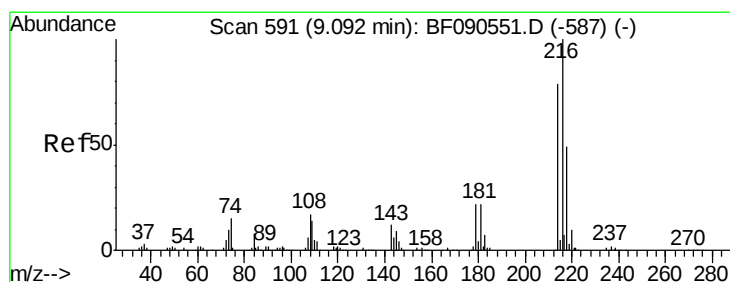
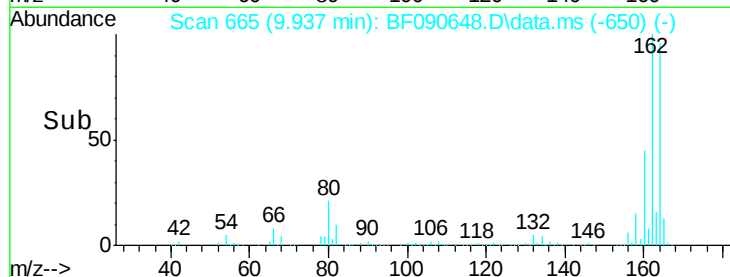
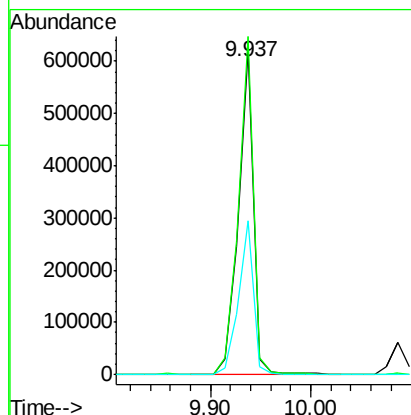
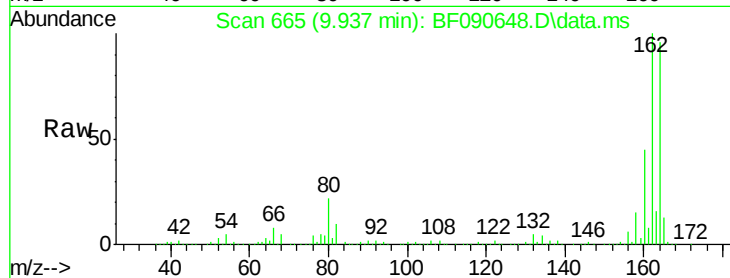
Tot Ion:164 Resp: 647148

Ion Ratio Lower Upper

164 100

162 104.3 82.2 123.4

160 47.3 36.6 55.0



#39

1,2,4,5-Tetrachlorobenzene

Concen: 32.50 ng

RT: 9.057 min Scan# 588

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Tgt Ion:216 Resp: 557664

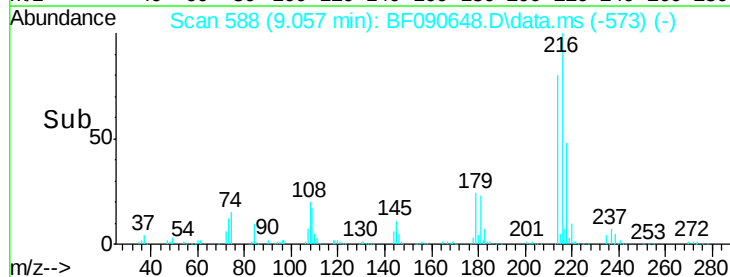
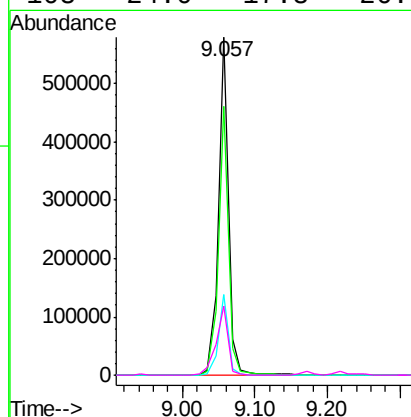
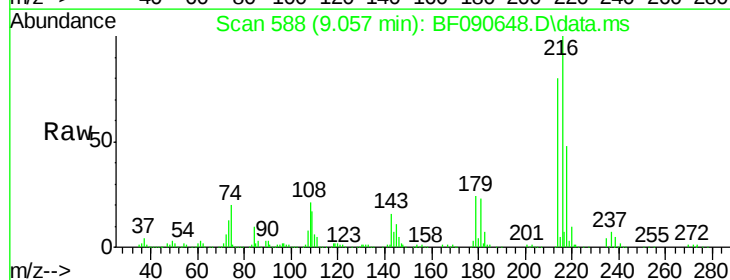
Ion Ratio Lower Upper

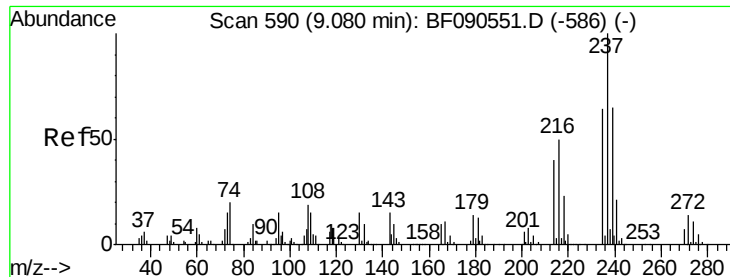
216 100

214 79.6 63.5 95.3

179 23.5 18.9 28.3

108 24.0 17.8 26.6





#40

Hexachlorocyclopentadiene

Concen: 72.32 ng

RT: 9.046 min Scan# 58

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

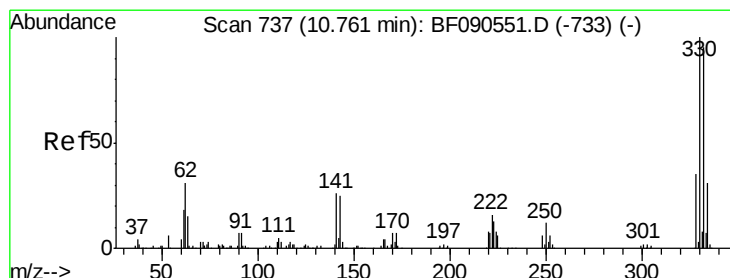
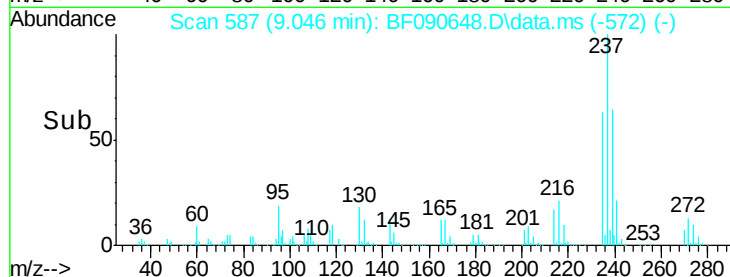
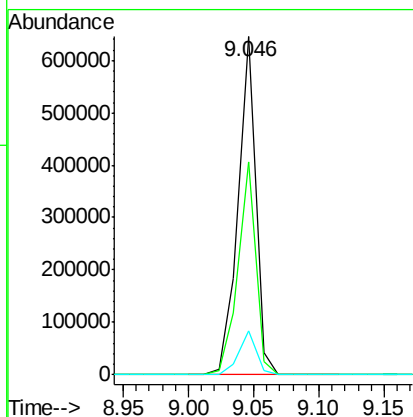
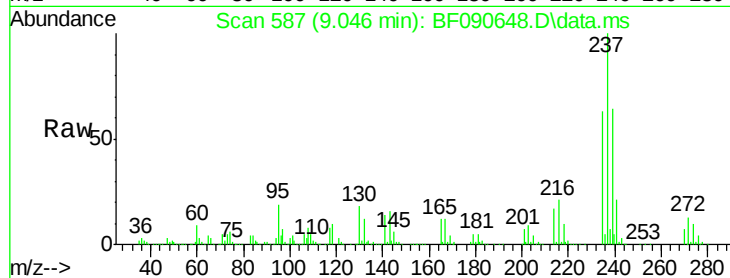
Tot Ion:237 Resp: 606168

Ion Ratio Lower Upper

237 100

235 63.0 43.8 83.8

272 12.9 0.0 33.7



#41

2,4,6-Tribromophenol

Concen: 98.76 ng

RT: 10.726 min Scan# 734

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

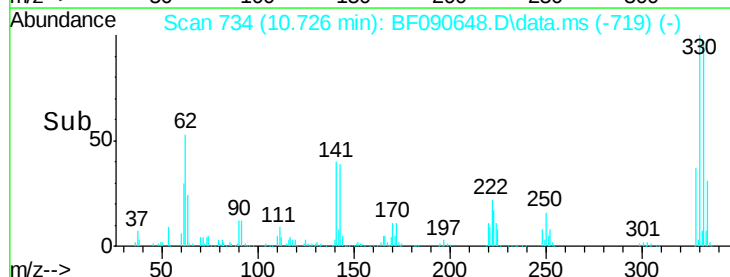
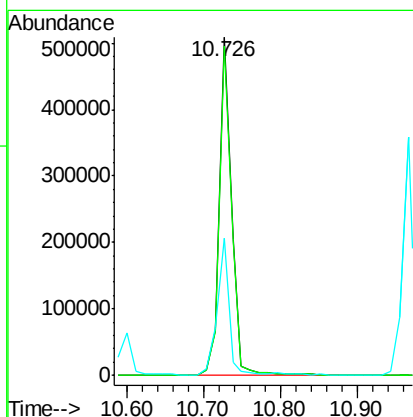
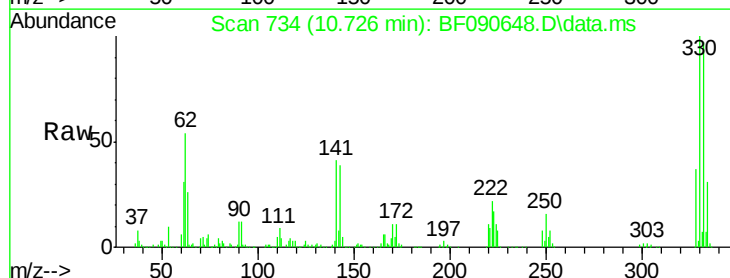
Tgt Ion:330 Resp: 569830

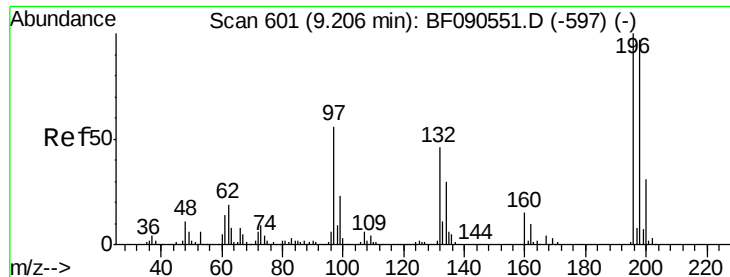
Ion Ratio Lower Upper

330 100

332 97.3 76.2 114.2

141 37.7 31.4 47.2

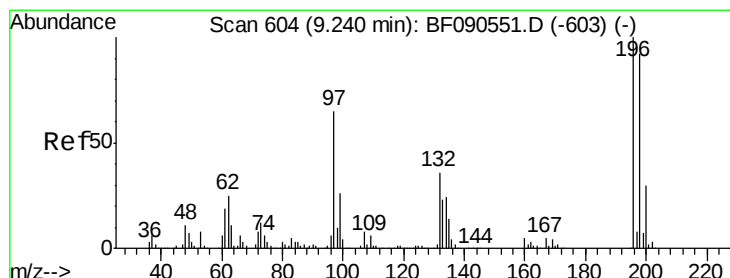
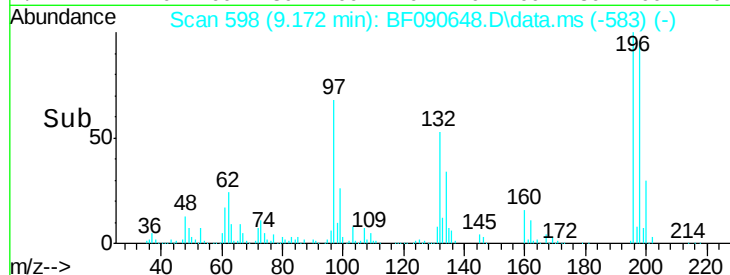
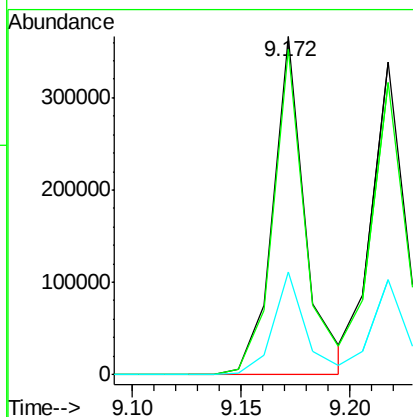
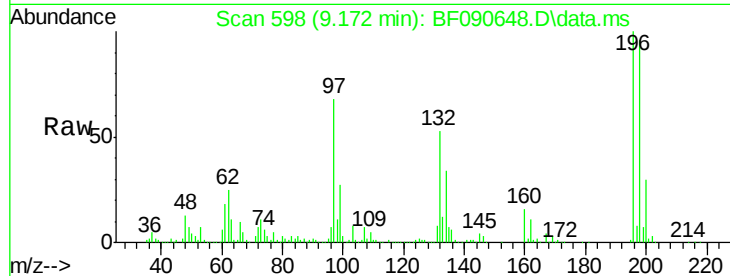




#42
2,4,6-Trichlorophenol
Concen: 39.35 ng
RT: 9.172 min Scan# 59
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

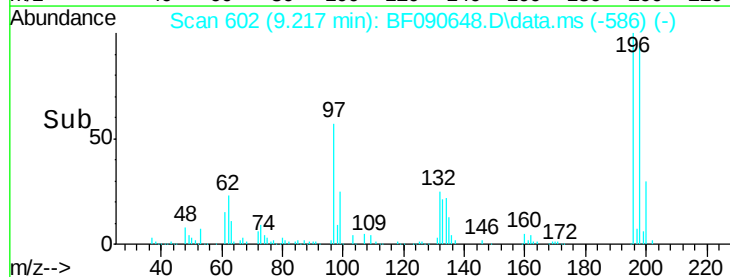
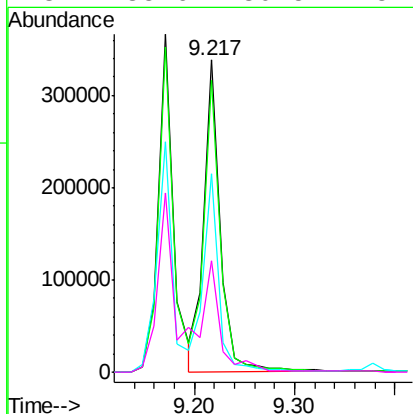
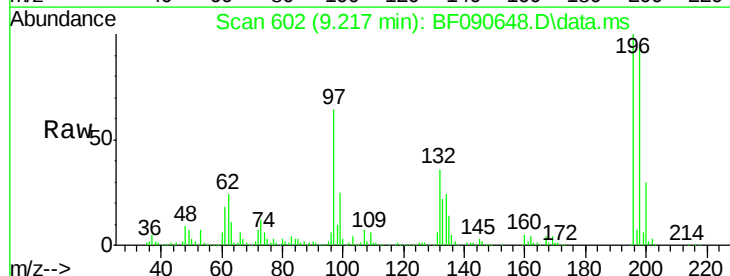
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

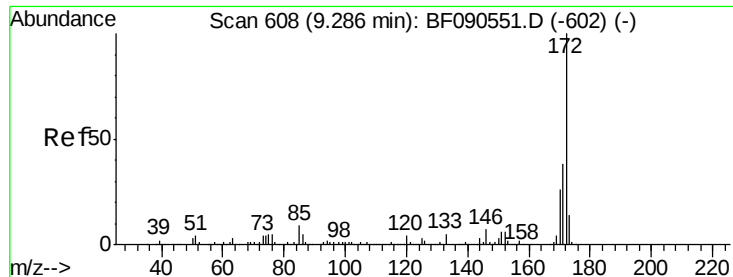
Tot Ion:196 Resp: 380829
Ion Ratio Lower Upper
196 100
198 96.1 77.9 116.9
200 30.2 25.1 37.7



#43
2,4,5-Trichlorophenol
Concen: 33.04 ng
RT: 9.217 min Scan# 602
Delta R.T. -0.012 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion:196 Resp: 381519
Ion Ratio Lower Upper
196 100
198 93.8 74.0 111.0
97 63.5 54.7 82.1
132 35.6 30.5 45.7





#44

2-Fluorobiphenyl

Concen: 62.36 ng

RT: 9.252 min Scan# 60

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

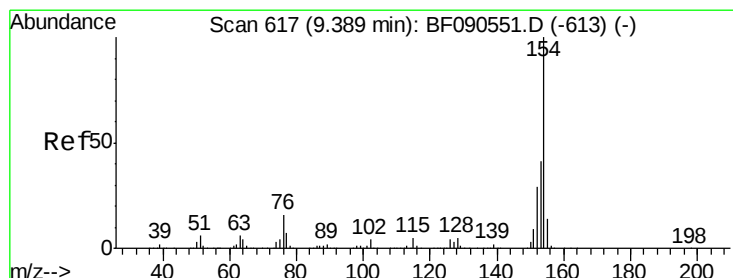
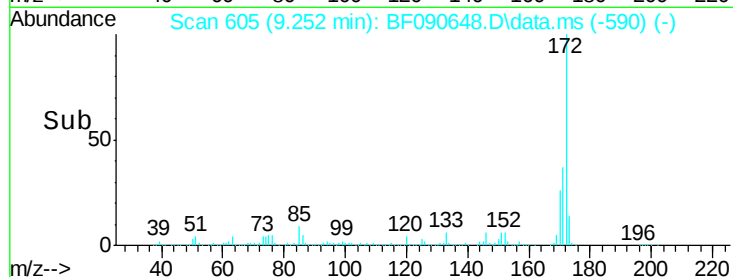
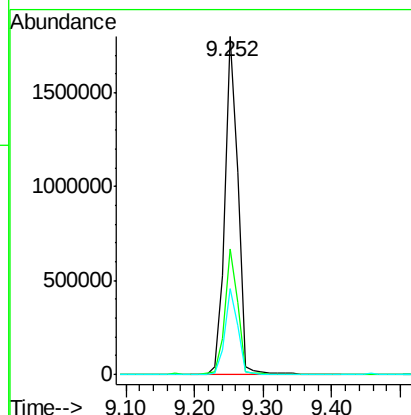
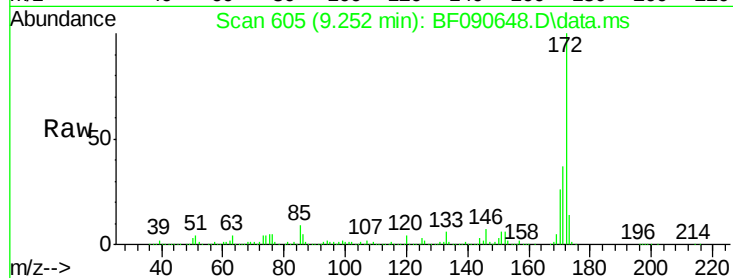
Tot Ion:172 Resp: 2449378

Ion Ratio Lower Upper

172 100

171 37.2 30.1 45.1

170 25.5 20.6 30.8



#45

1,1'-Biphenyl

Concen: 30.82 ng

RT: 9.355 min Scan# 614

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

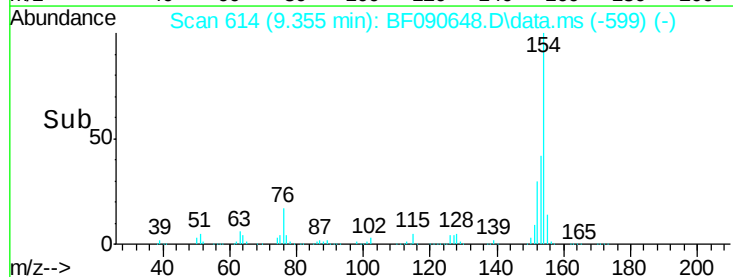
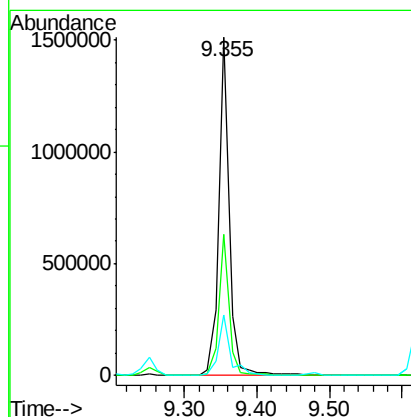
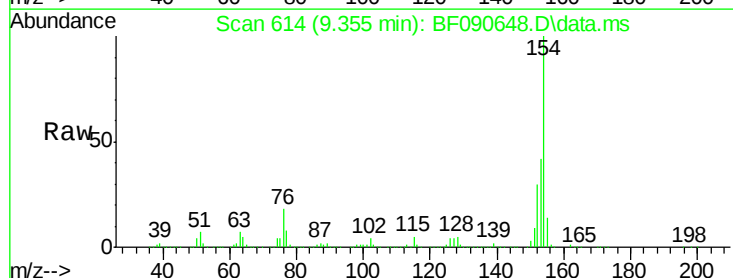
Tgt Ion:154 Resp: 1517842

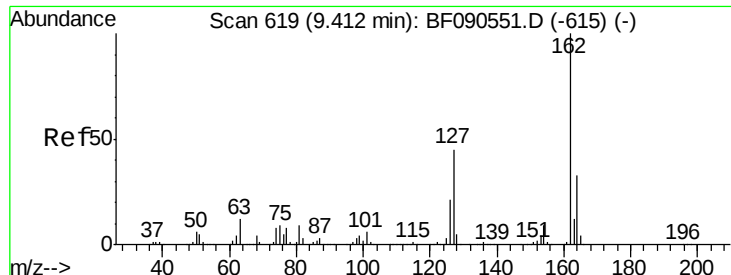
Ion Ratio Lower Upper

154 100

153 41.6 21.5 61.5

76 17.9 0.0 36.0

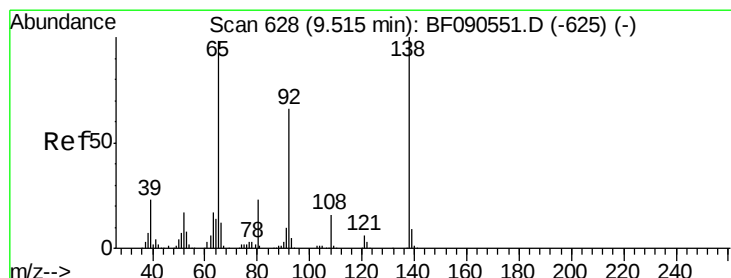
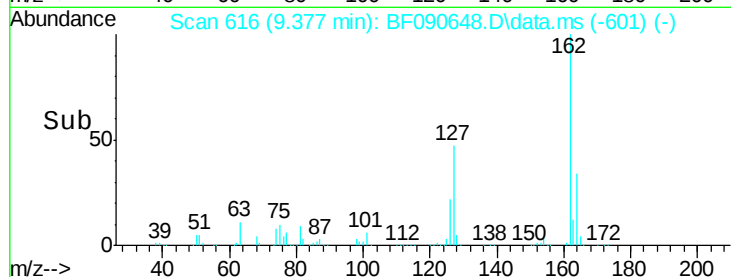
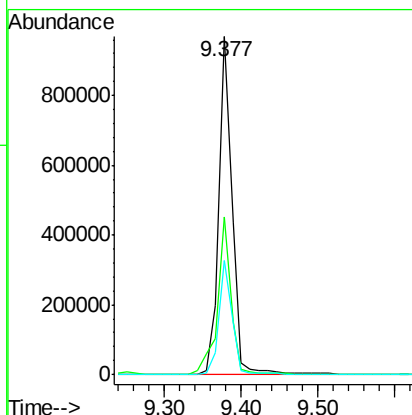
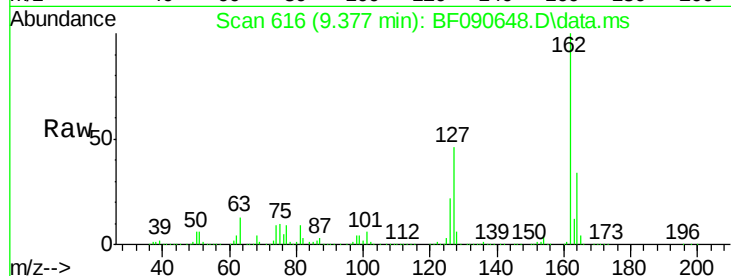




#46
2-Chloronaphthalene
Concen: 32.08 ng
RT: 9.377 min Scan# 61
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

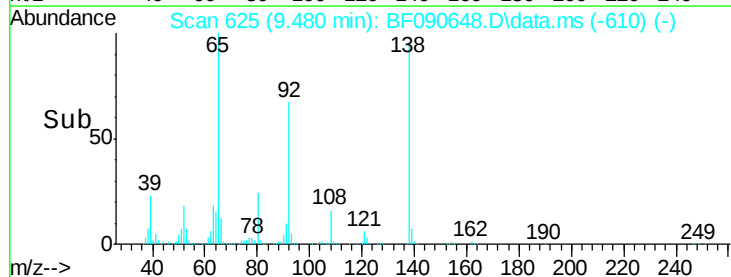
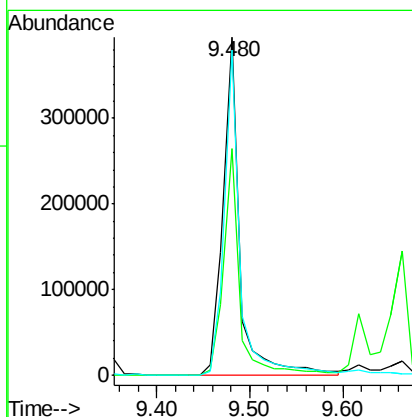
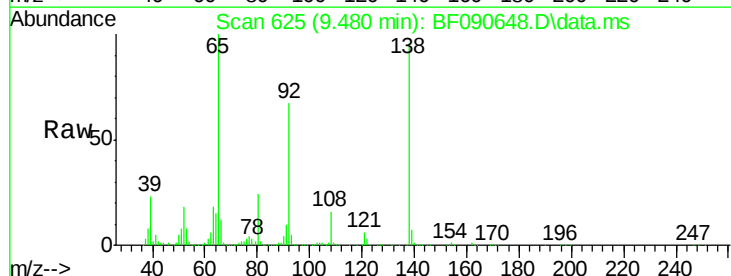
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

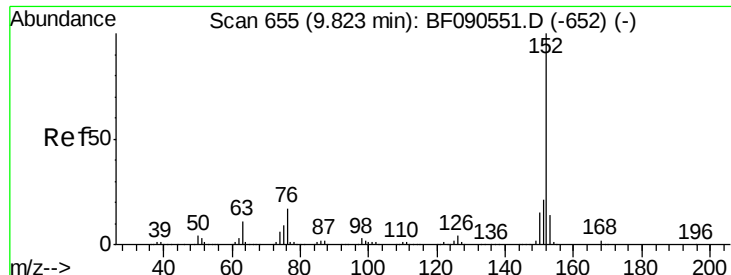
Tot Ion:162 Resp: 1178026
Ion Ratio Lower Upper
162 100
127 46.5 35.9 53.9
164 33.8 26.7 40.1



#47
2-Nitroaniline
Concen: 36.89 ng
RT: 9.480 min Scan# 625
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion: 65 Resp: 491086
Ion Ratio Lower Upper
65 100
92 66.9 54.3 81.5
138 96.1 81.7 122.5





#48

Acenaphthylene

Concen: 34.26 ng

RT: 9.800 min Scan# 65

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

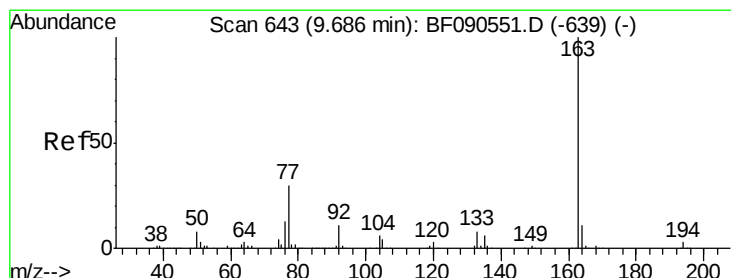
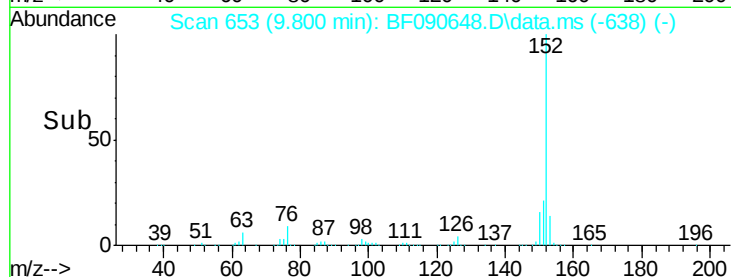
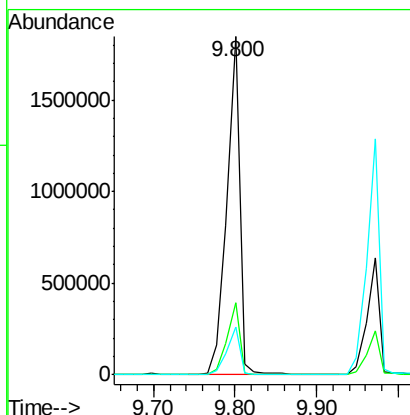
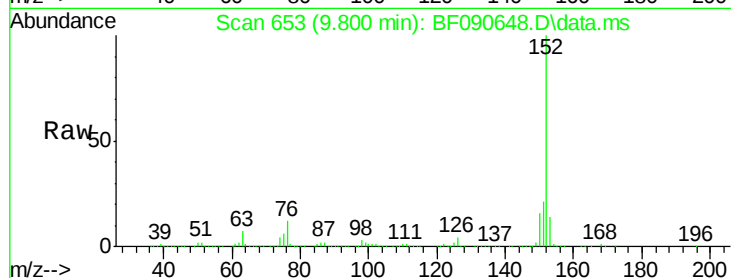
Tot Ion:152 Resp: 2003282

Ion Ratio Lower Upper

152 100

151 21.4 16.6 25.0

153 14.0 11.3 16.9



#49

Dimethylphthalate

Concen: 36.59 ng

RT: 9.663 min Scan# 641

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

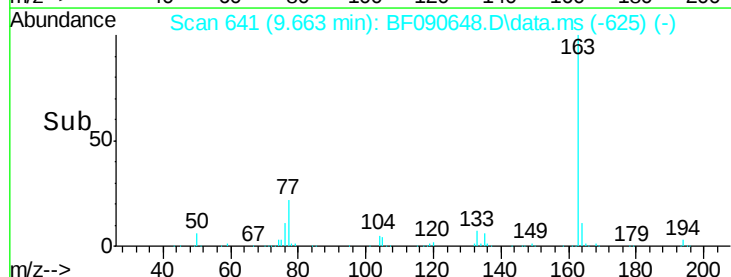
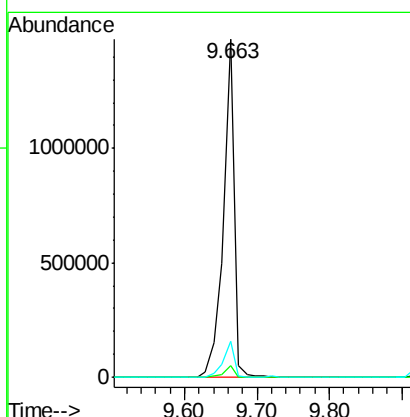
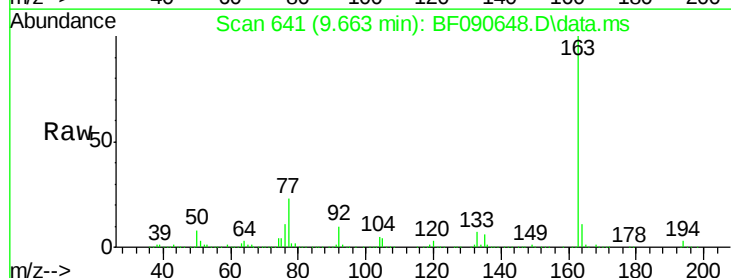
Tgt Ion:163 Resp: 1536124

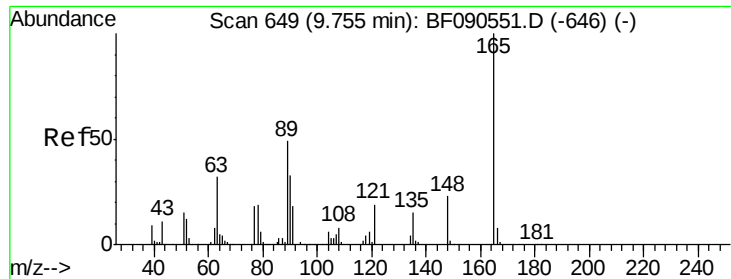
Ion Ratio Lower Upper

163 100

194 3.5 2.3 3.5#

164 10.8 8.6 13.0

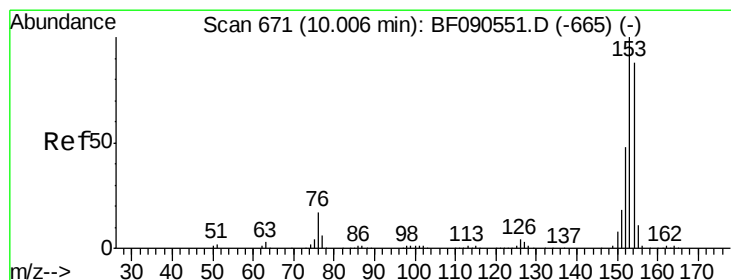
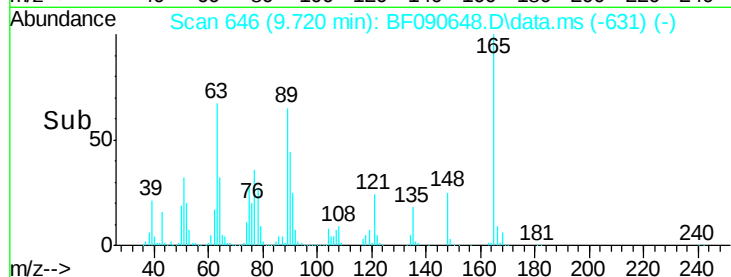
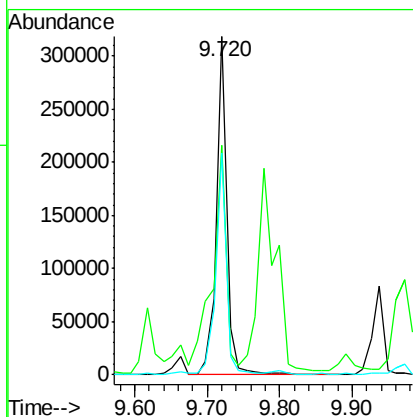
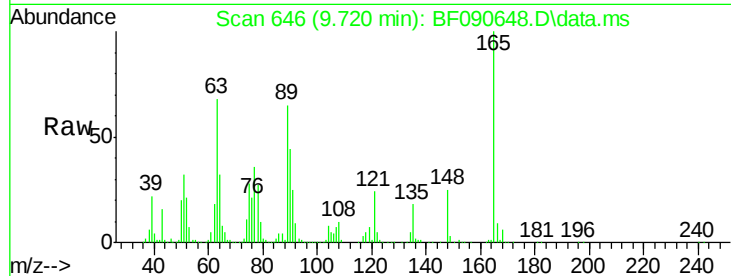




#50
 2,6-Dinitrotoluene
 Concen: 34.47 ng
 RT: 9.720 min Scan# 64
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

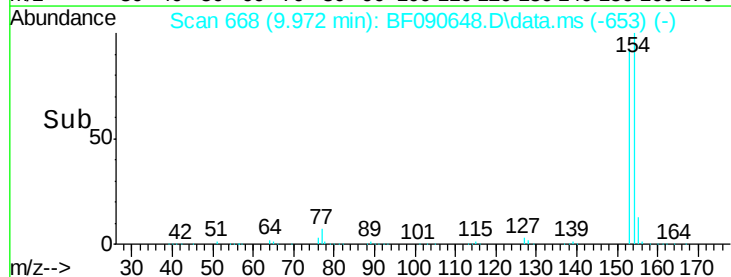
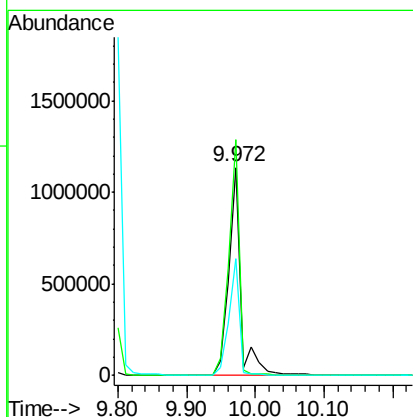
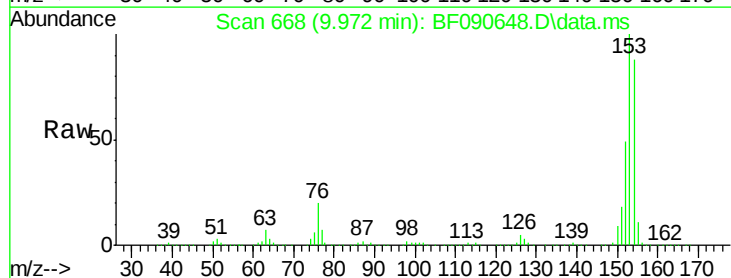
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

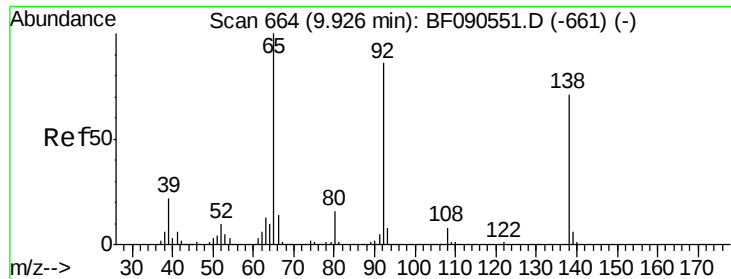
Tot Ion:165 Resp: 316737
 Ion Ratio Lower Upper
 165 100
 63 67.8 40.1 60.1#
 89 65.5 39.5 59.3#



#51
 Acenaphthene
 Concen: 36.55 ng
 RT: 9.972 min Scan# 668
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

Tgt Ion:154 Resp: 1420360
 Ion Ratio Lower Upper
 154 100
 153 113.6 91.2 136.8
 152 56.0 44.0 66.0

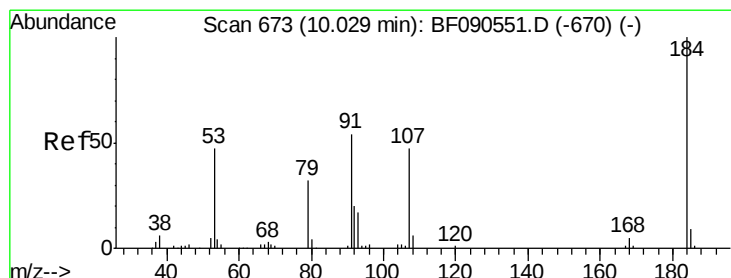
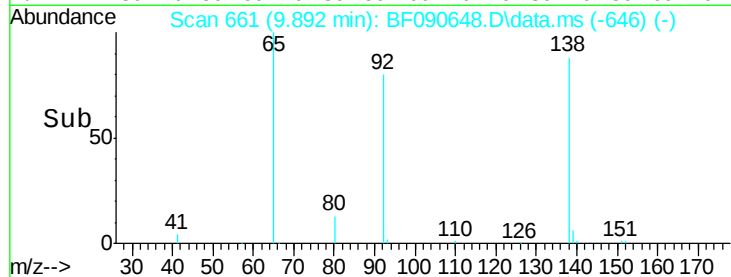
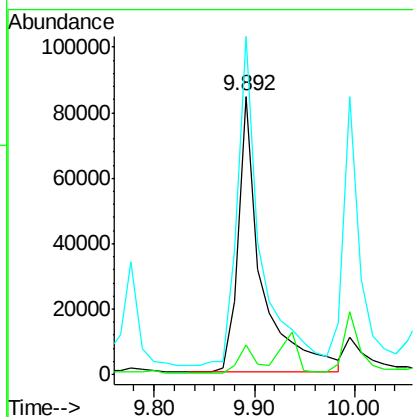
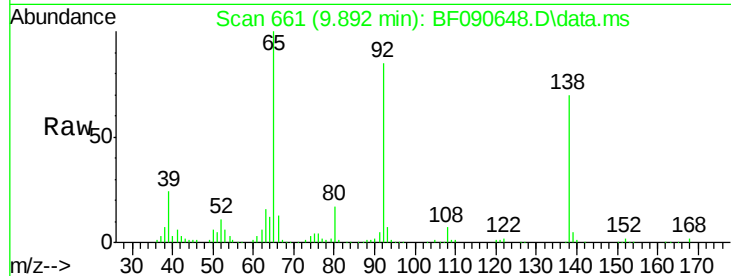




#52
3-Nitroaniline
Concen: 11.79 ng
RT: 9.892 min Scan# 661
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

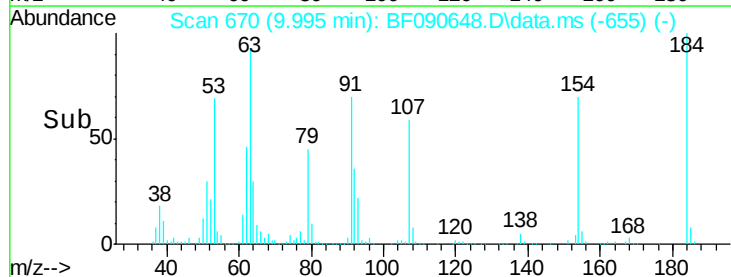
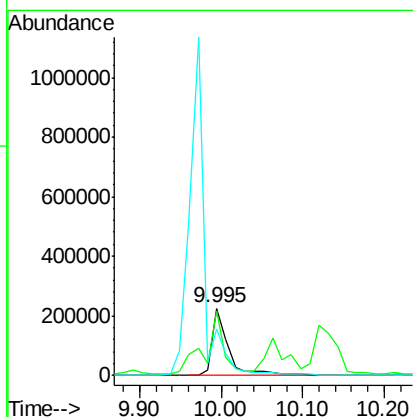
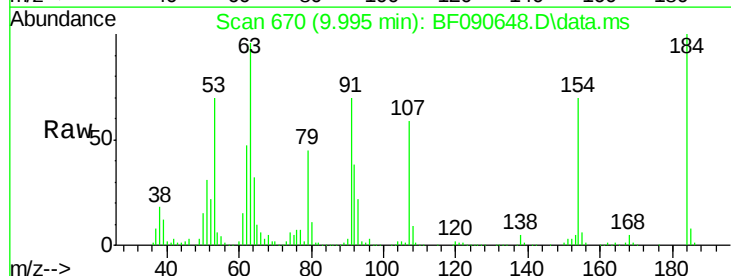
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

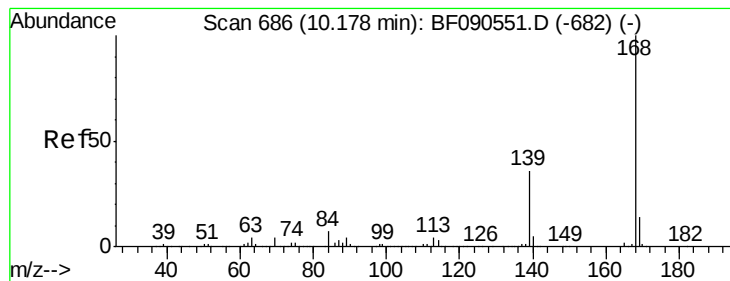
Tot Ion:138 Resp: 135949
Ion Ratio Lower Upper
138 100
108 10.7 8.6 12.8
92 121.4 97.8 146.8



#53
2,4-Dinitrophenol
Concen: 64.65 ng
RT: 9.995 min Scan# 670
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion:184 Resp: 316631
Ion Ratio Lower Upper
184 100
63 96.1 60.2 90.2#
154 69.9 86.1 129.1#





#54

Dibenzenofuran

Concen: 34.28 ng

RT: 10.143 min Scan# 68

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

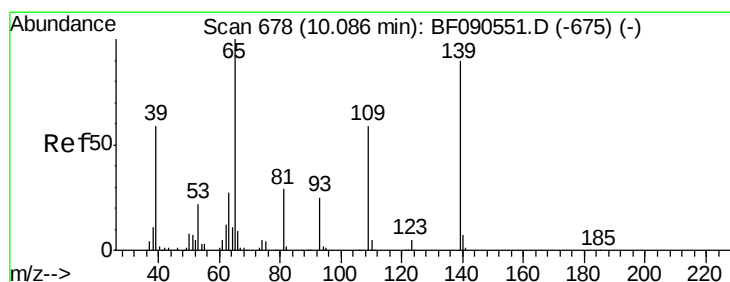
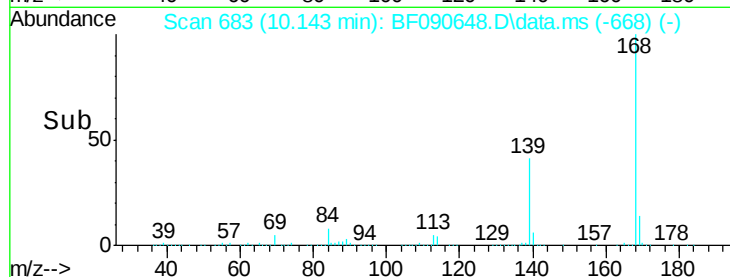
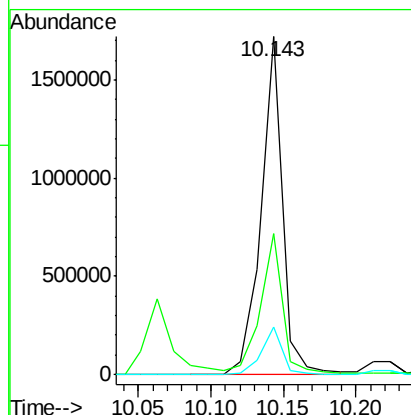
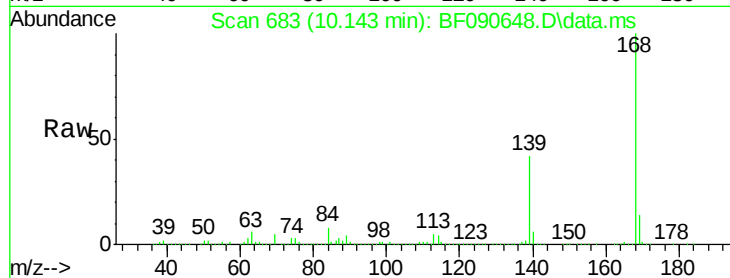
Tot Ion:168 Resp: 1752277

Ion Ratio Lower Upper

168 100

139 41.8 30.5 45.7

169 14.2 10.9 16.3



#55

4-Nitrophenol

Concen: 71.29 ng

RT: 10.063 min Scan# 676

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

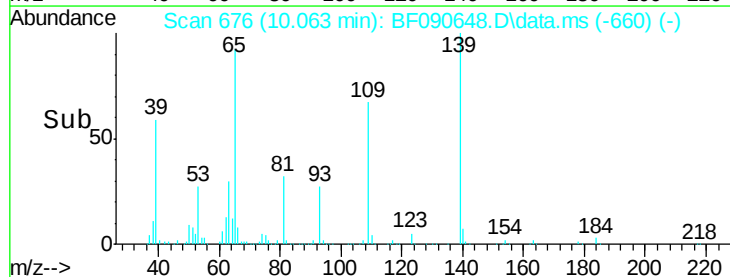
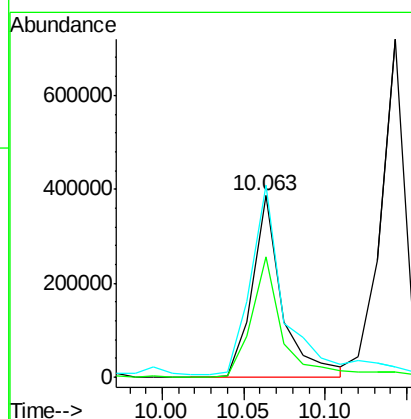
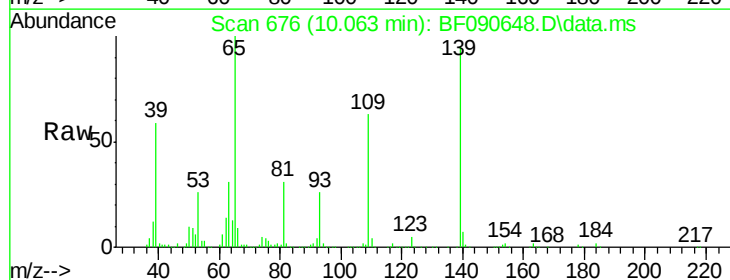
Tgt Ion:139 Resp: 494608

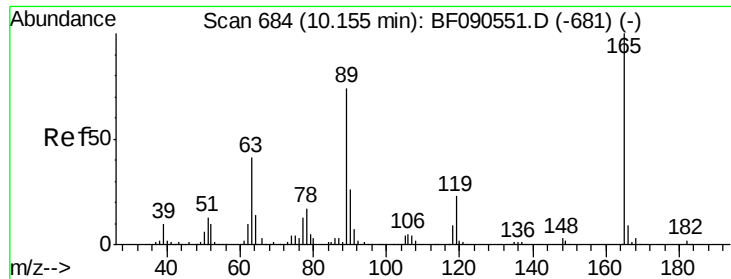
Ion Ratio Lower Upper

139 100

109 66.6 45.9 85.9

65 105.7 95.8 135.8

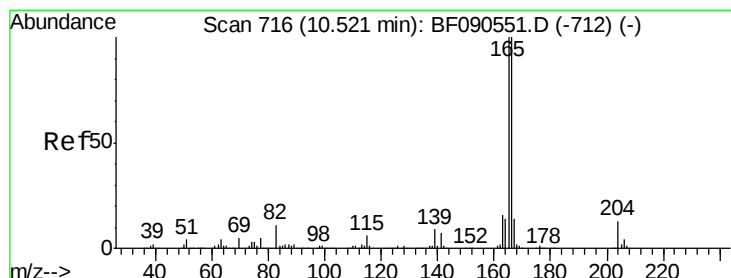
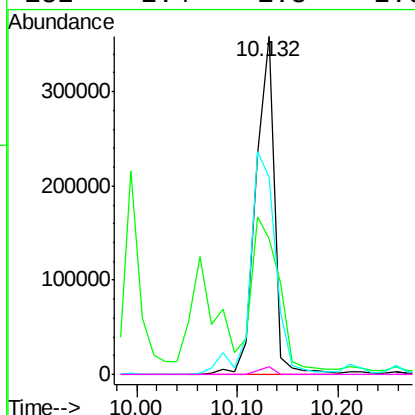
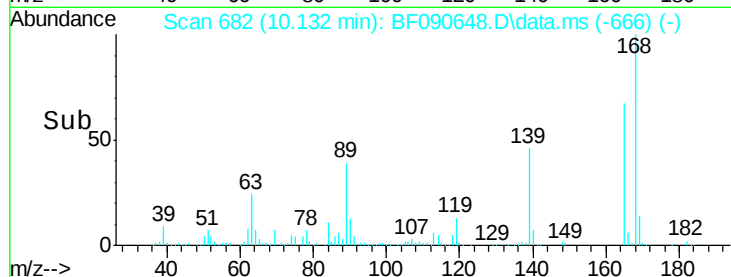
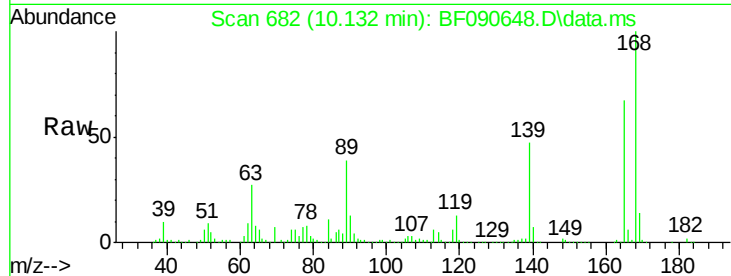




#56
2,4-Dinitrotoluene
Concen: 37.07 ng
RT: 10.132 min Scan# 68
Delta R.T. -0.012 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

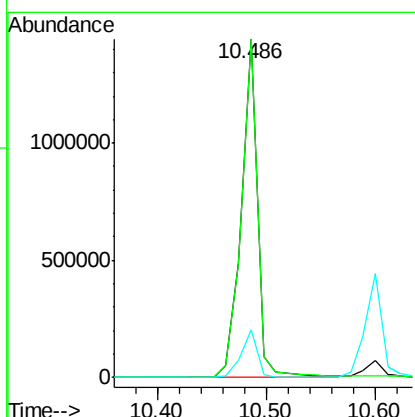
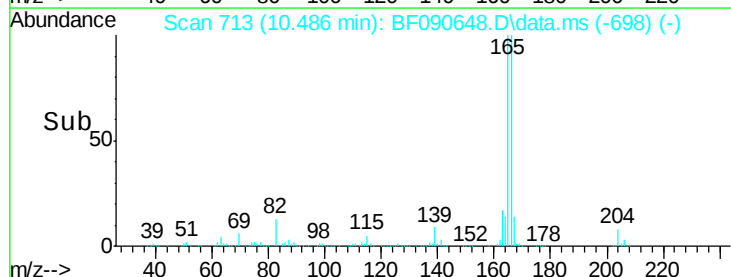
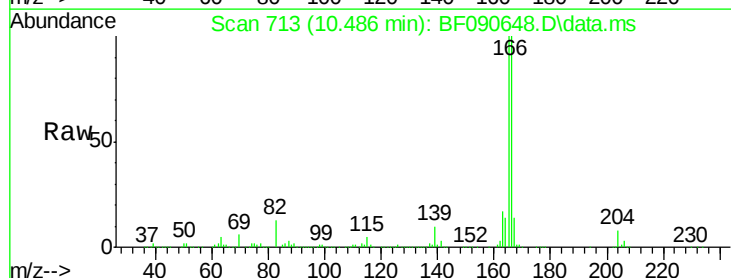
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

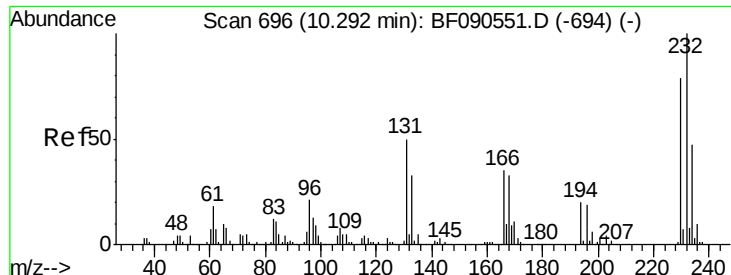
Tot Ion	Ratio	Lower	Upper
165	100		
63	40.0	35.4	53.0
89	58.3	59.0	88.4
182	2.4	1.8	2.6



#57
Fluorene
Concen: 34.83 ng
RT: 10.486 min Scan# 713
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.9	119.9
167	13.9	10.9	16.3

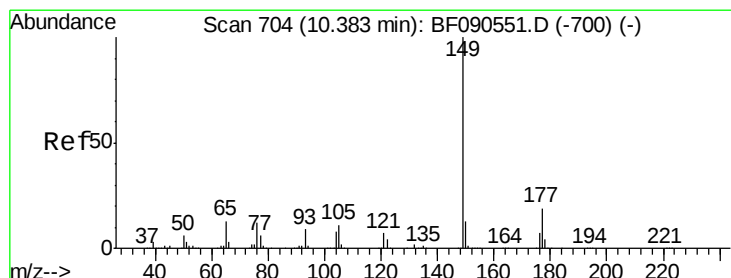
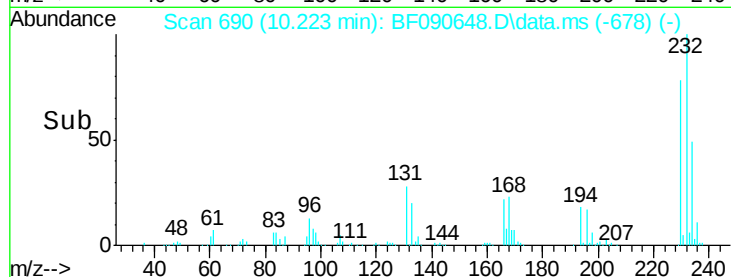
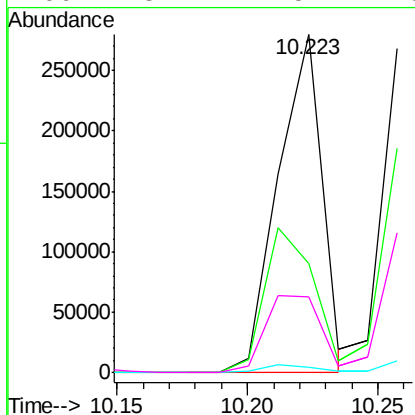
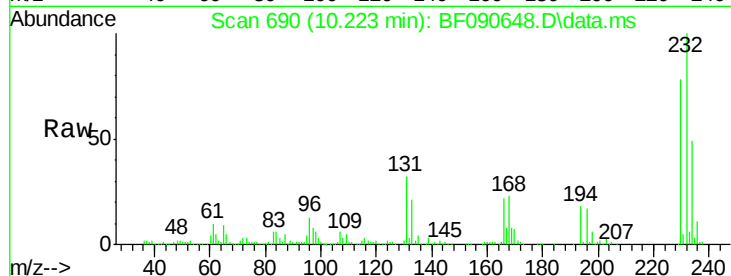




#58
 2,3,4,6-Tetrachlorophenol
 Concen: 33.88 ng
 RT: 10.223 min Scan# 69
 Delta R.T. -0.057 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

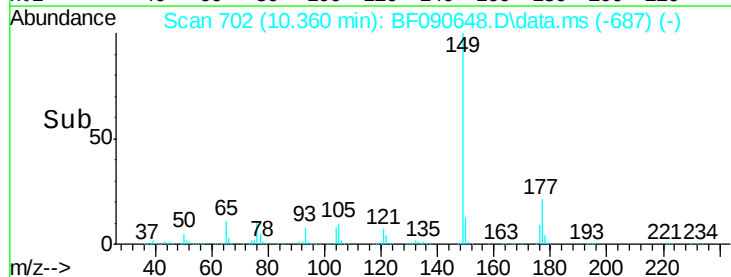
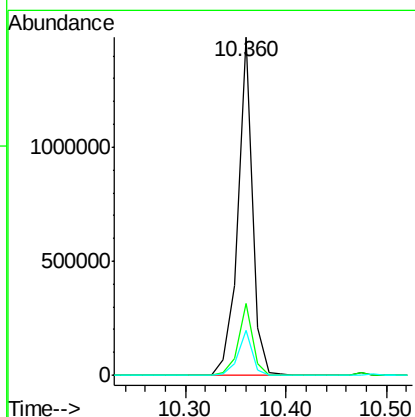
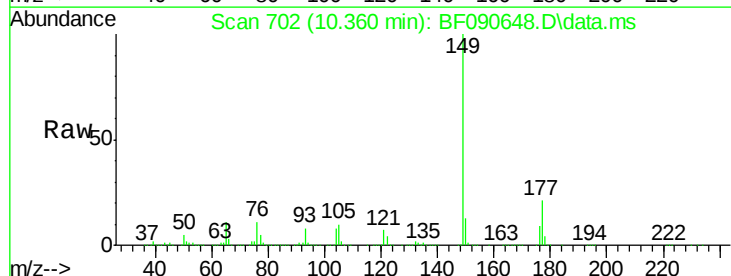
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

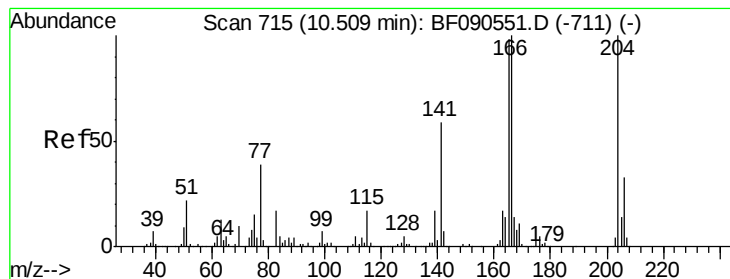
Tot Ion	Ratio	Lower	Upper
232	100		
131	48.5	42.6	64.0
130	2.6	1.8	2.8
166	28.4	27.5	41.3



#59
 Diethylphthalate
 Concen: 35.10 ng
 RT: 10.360 min Scan# 702
 Delta R.T. -0.023 min
 Lab File: BF090648.D
 Acq: 19 Oct 2016 15:31

Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.2	15.3	22.9
150	13.3	10.3	15.5





#60

4-Chlorophenyl-phenylether

Concen: 32.90 ng

RT: 10.475 min Scan# 71

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

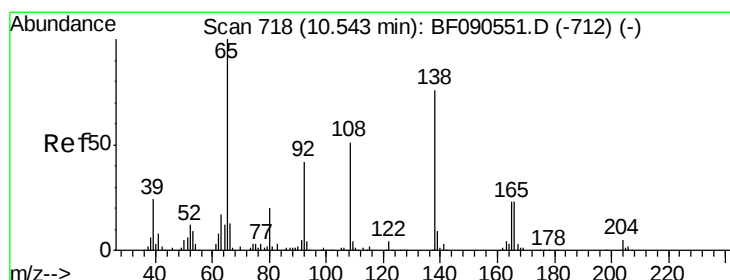
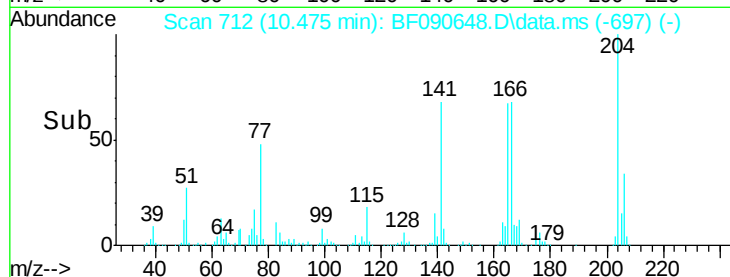
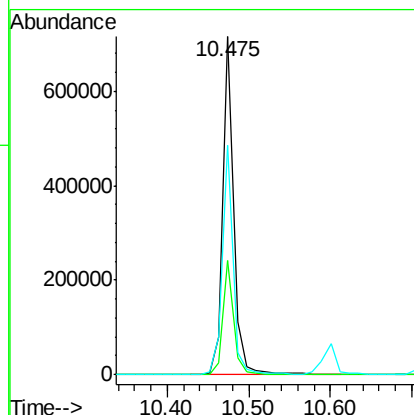
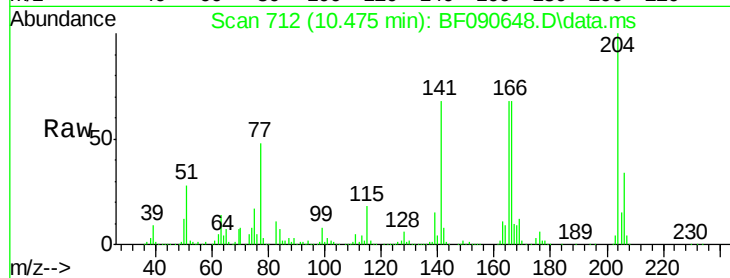
Tot Ion:204 Resp: 653977

Ion Ratio Lower Upper

204 100

206 33.6 26.5 39.7

141 67.9 47.2 70.8



#61

4-Nitroaniline

Concen: 28.80 ng

RT: 10.509 min Scan# 715

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

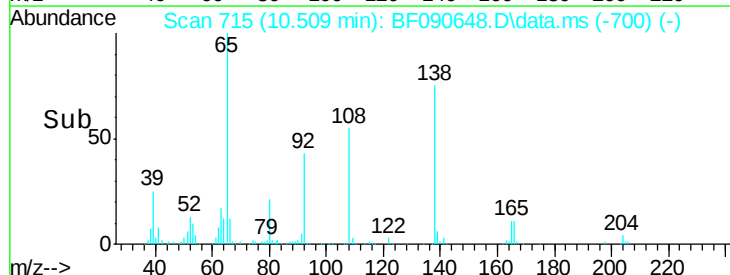
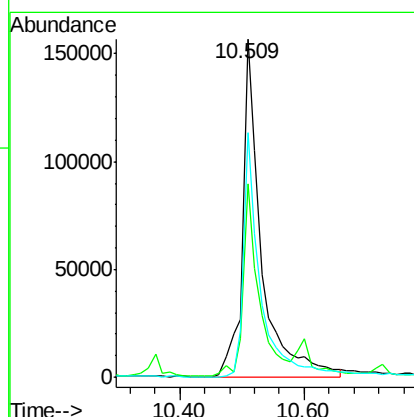
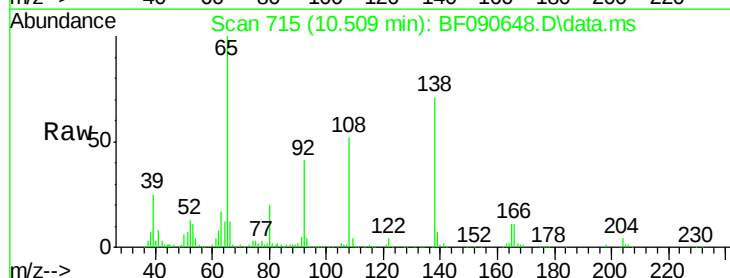
Tgt Ion:138 Resp: 332986

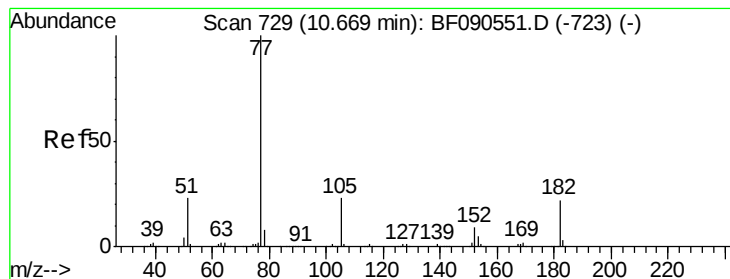
Ion Ratio Lower Upper

138 100

92 57.3 35.7 75.7

108 72.3 46.9 86.9





#62

Azobenzene

Concen: 36.22 ng

RT: 10.635 min Scan# 72

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tot Ion: 77 Resp: 1784232

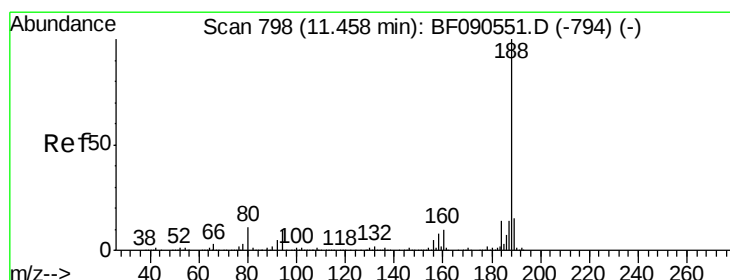
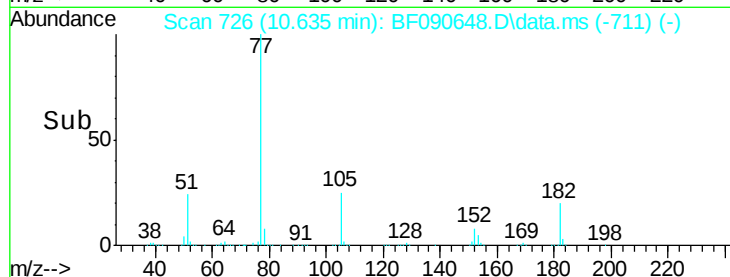
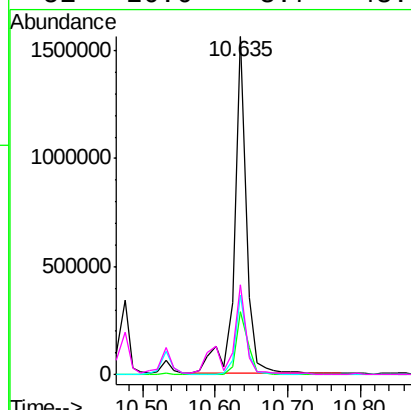
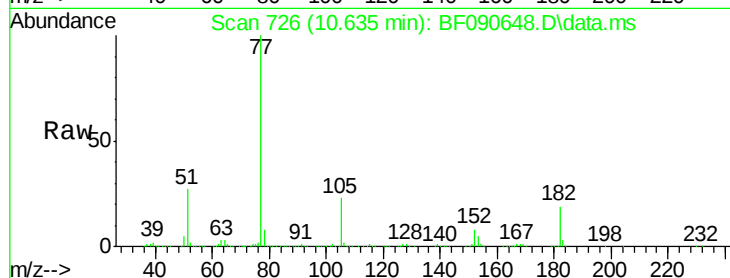
Ion Ratio Lower Upper

77 100

182 18.5 2.2 42.2

105 23.4 3.5 43.5

51 26.6 3.7 43.7



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.423 min Scan# 795

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

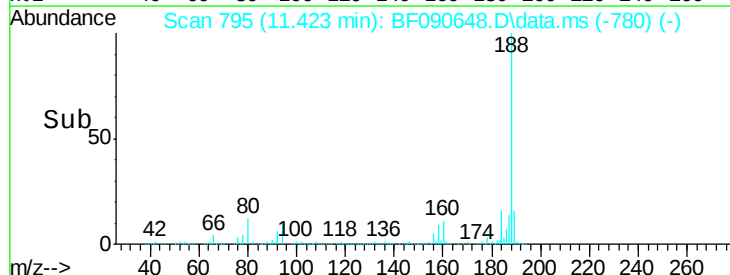
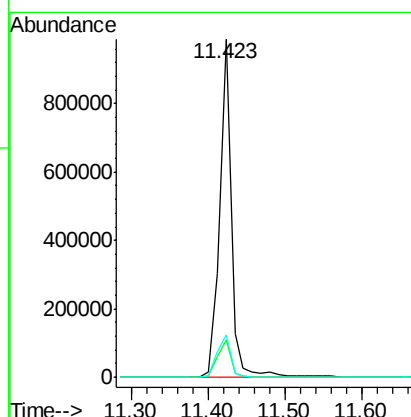
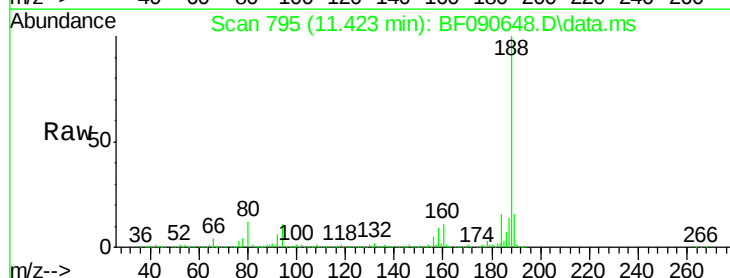
Tgt Ion: 188 Resp: 1051776

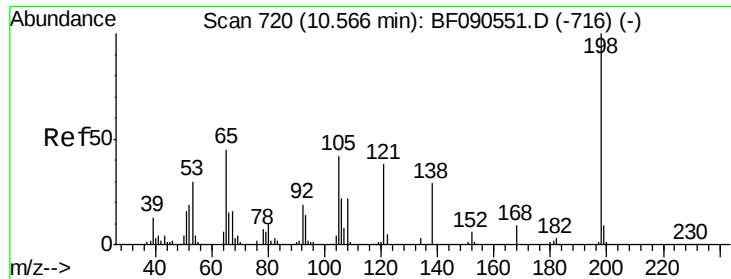
Ion Ratio Lower Upper

188 100

94 11.2 7.7 11.5

80 12.4 8.6 12.8





#64

4,6-Dinitro-2-methylphenol

Concen: 32.16 ng

RT: 10.532 min Scan# 71

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

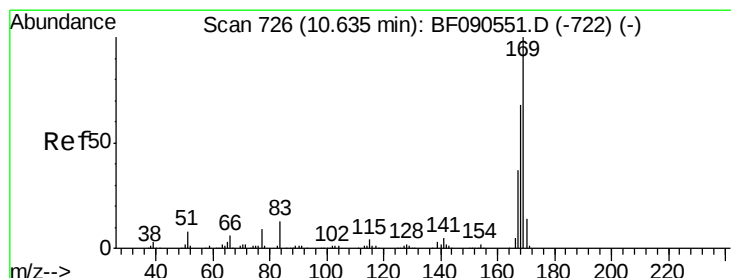
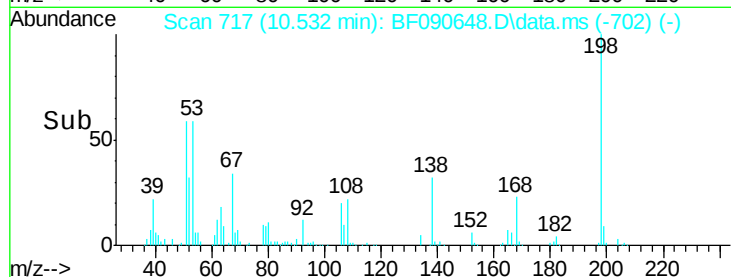
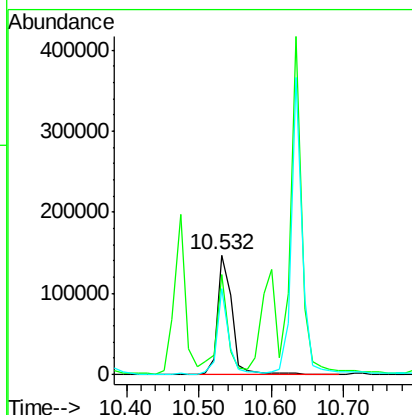
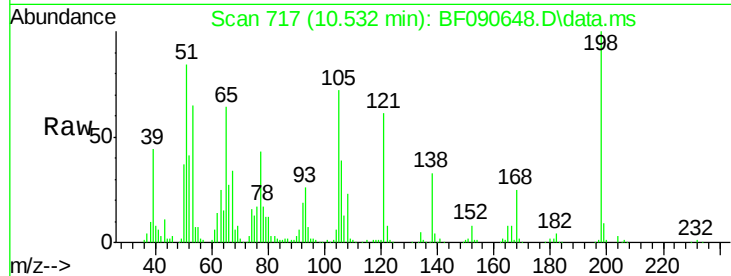
Tot Ion:198 Resp: 204704

Ion Ratio Lower Upper

198 100

51 83.7 19.7 59.7#

105 71.6 22.6 62.6#



#65

n-Nitrosodiphenylamine

Concen: 36.38 ng

RT: 10.600 min Scan# 723

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

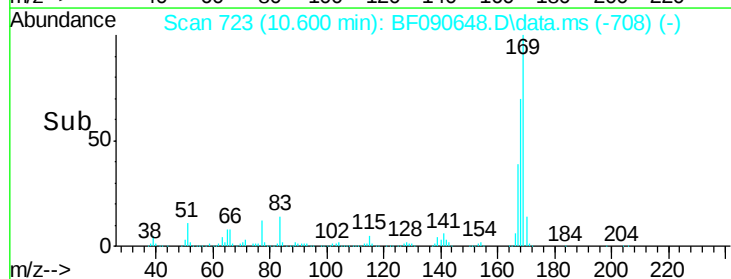
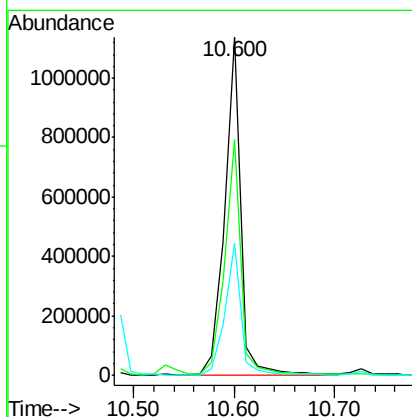
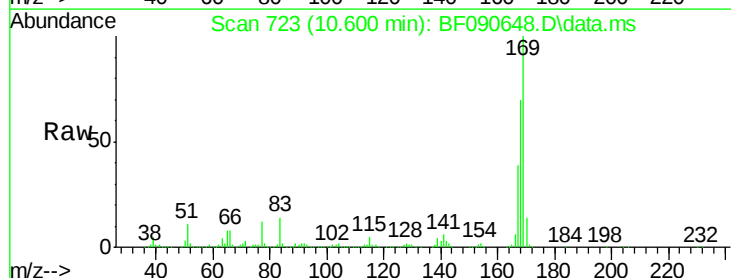
Tgt Ion:169 Resp: 1263797

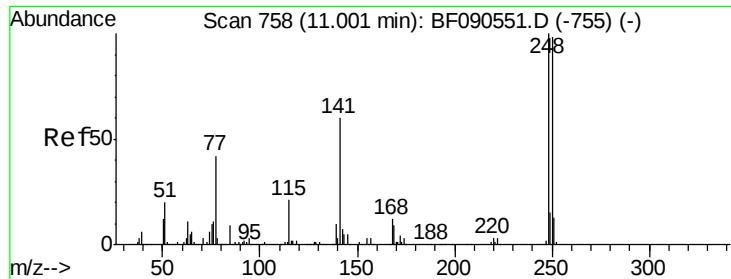
Ion Ratio Lower Upper

169 100

168 69.7 54.6 81.8

167 38.9 29.8 44.8





#66

4-Bromophenyl-phenylether

Concen: 34.28 ng

RT: 10.966 min Scan# 75

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

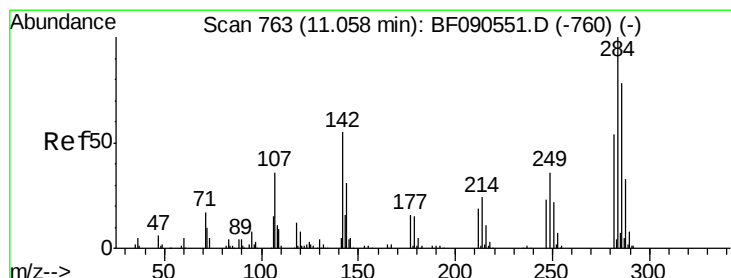
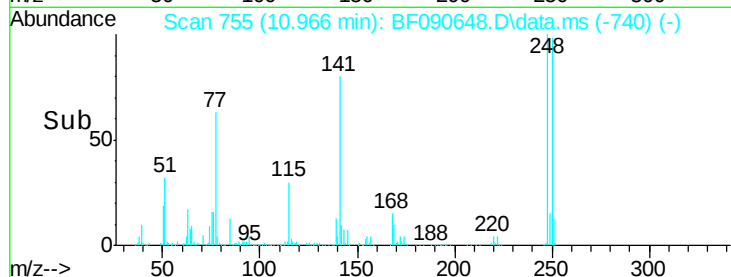
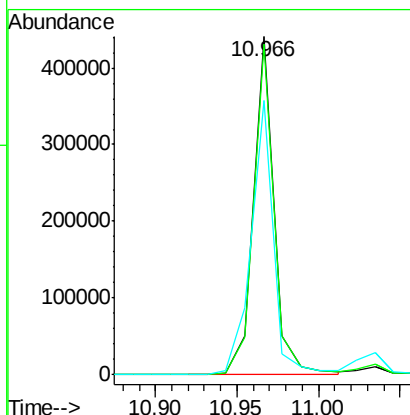
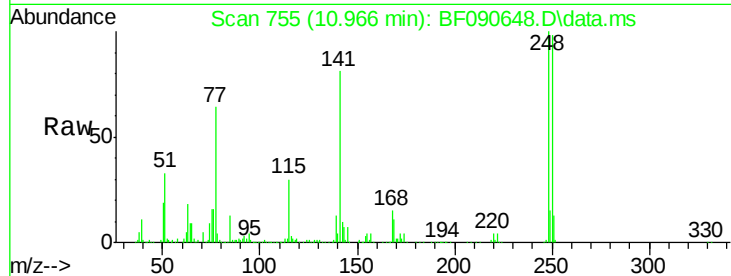
Tot Ion:248 Resp: 386821

Ion Ratio Lower Upper

248 100

250 97.8 78.4 117.6

141 81.1 48.4 72.6#



#67

Hexachlorobenzene

Concen: 36.56 ng

RT: 11.035 min Scan# 761

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

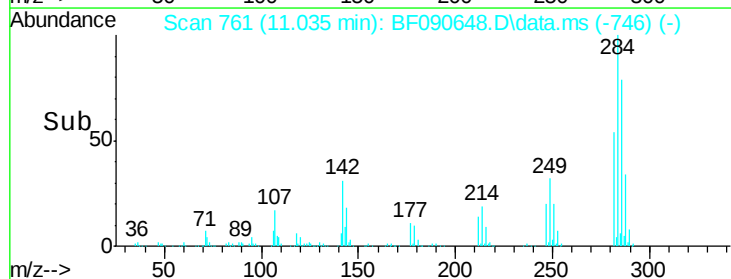
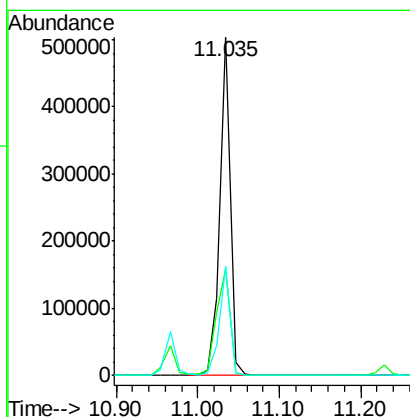
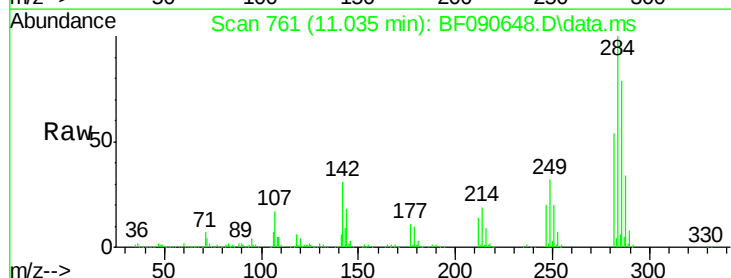
Tgt Ion:284 Resp: 447975

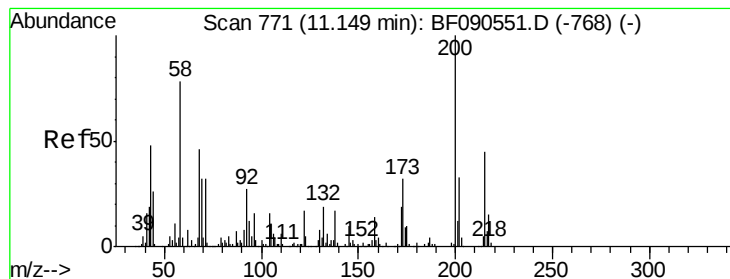
Ion Ratio Lower Upper

284 100

142 31.4 44.5 66.7#

249 32.2 29.6 44.4





#68

Atrazine

Concen: 36.35 ng

RT: 11.126 min Scan# 76

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

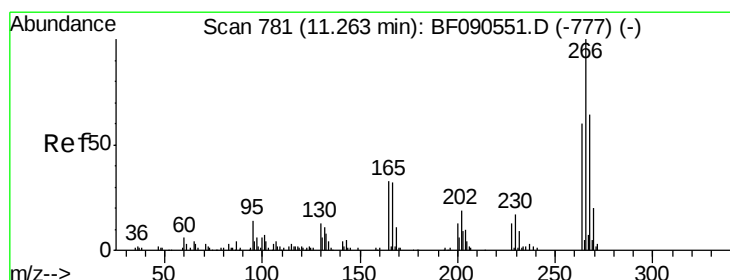
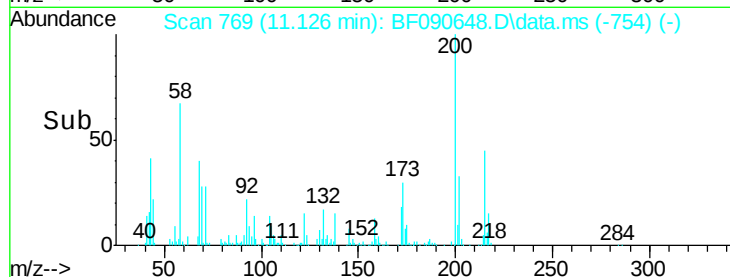
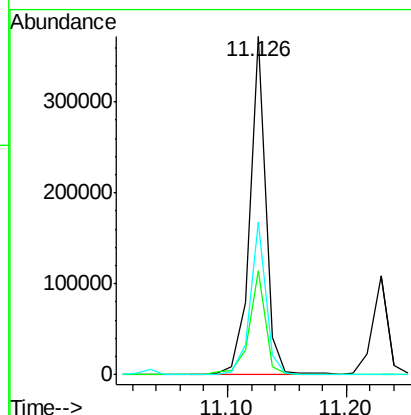
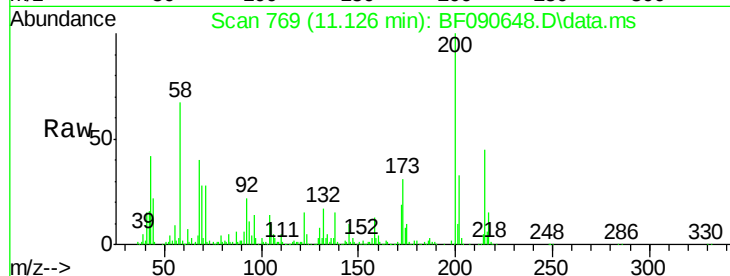
Tot Ion:200 Resp: 349294

Ion Ratio Lower Upper

200 100

173 30.9 12.0 52.0

215 45.3 25.2 65.2



#69

Pentachlorophenol

Concen: 80.00 ng

RT: 11.229 min Scan# 778

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

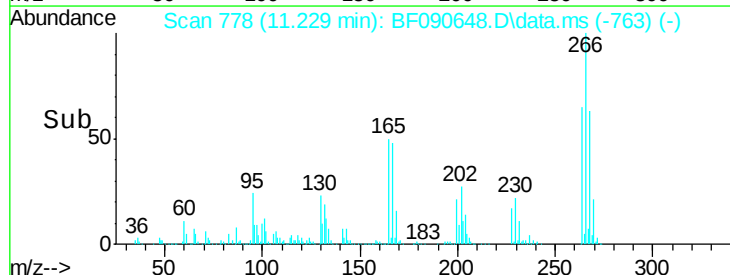
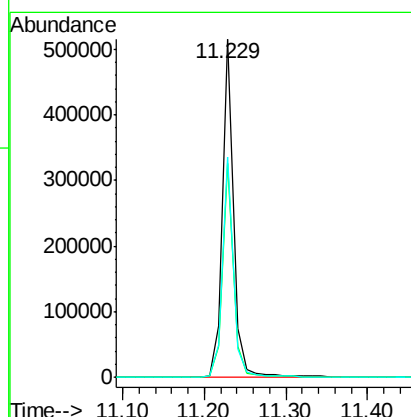
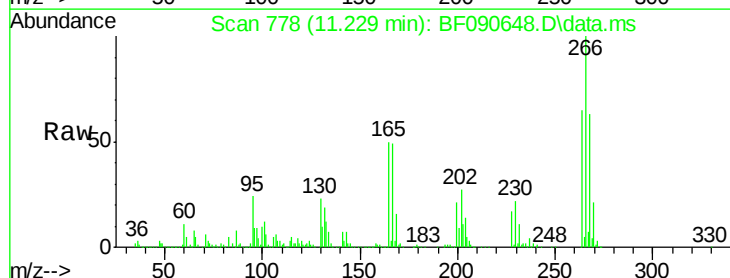
Tgt Ion:266 Resp: 485856

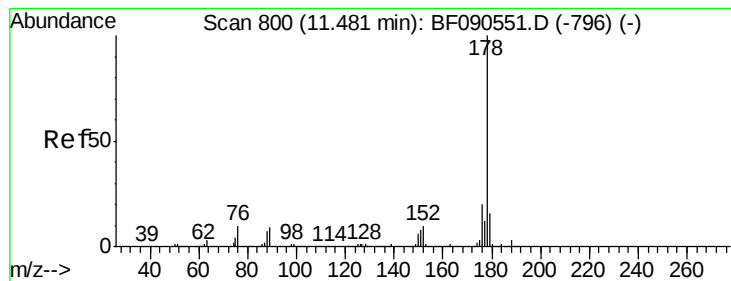
Ion Ratio Lower Upper

266 100

268 63.2 51.5 77.3

264 65.3 47.9 71.9





#70

Phenanthrene

Concen: 33.75 ng

RT: 11.446 min Scan# 79

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

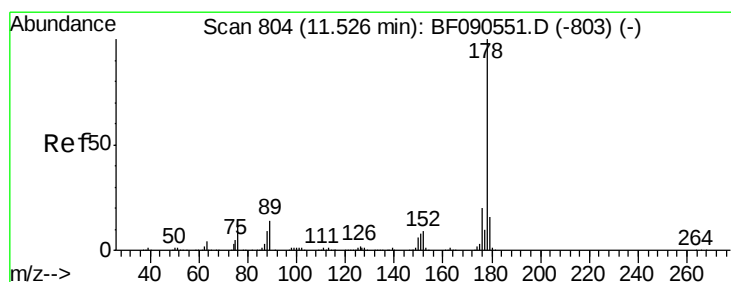
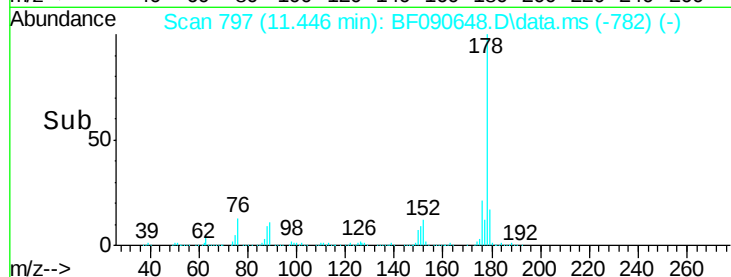
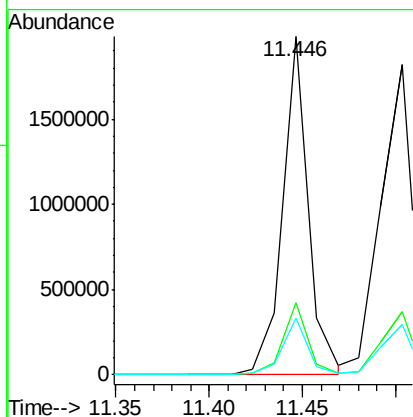
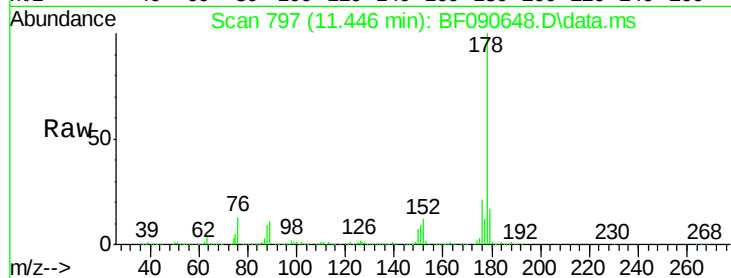
Tot Ion:178 Resp: 1894727

Ion Ratio Lower Upper

178 100

176 21.3 16.1 24.1

179 16.8 12.6 19.0



#71

Anthracene

Concen: 36.26 ng

RT: 11.503 min Scan# 802

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

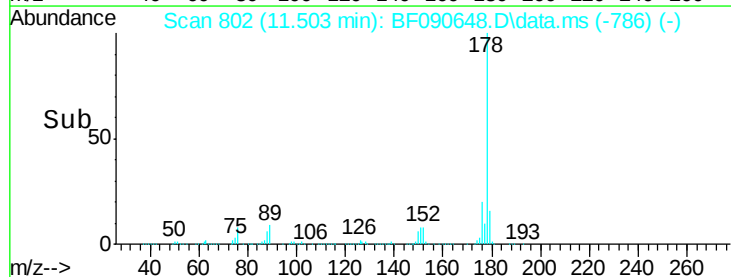
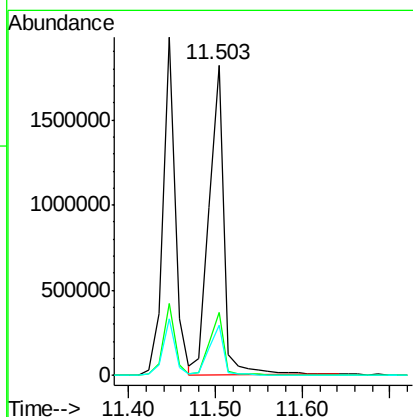
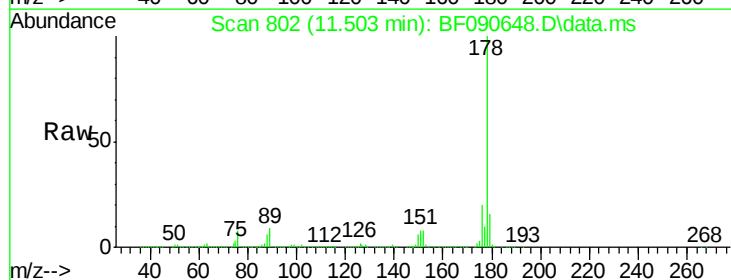
Tgt Ion:178 Resp: 2191182

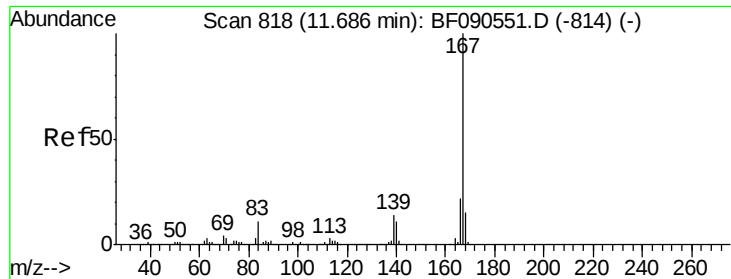
Ion Ratio Lower Upper

178 100

176 20.2 15.5 23.3

179 16.1 13.0 19.4





#72

Carbazole

Concen: 32.66 ng

RT: 11.652 min Scan# 81

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

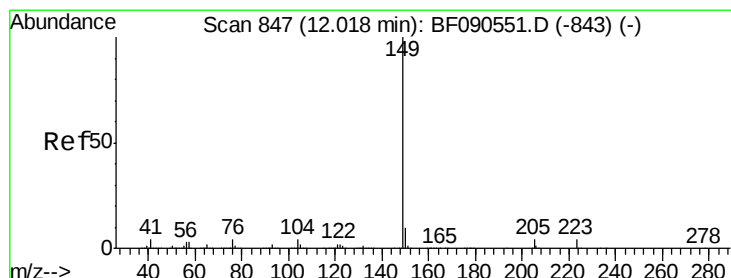
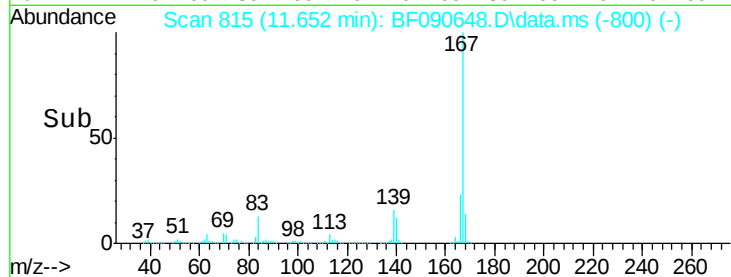
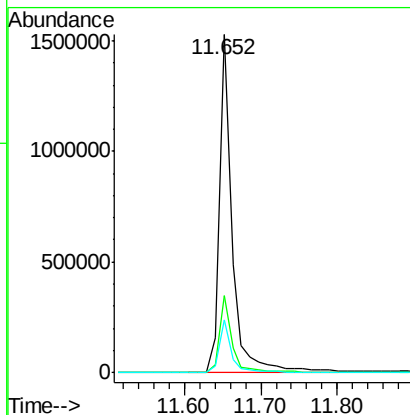
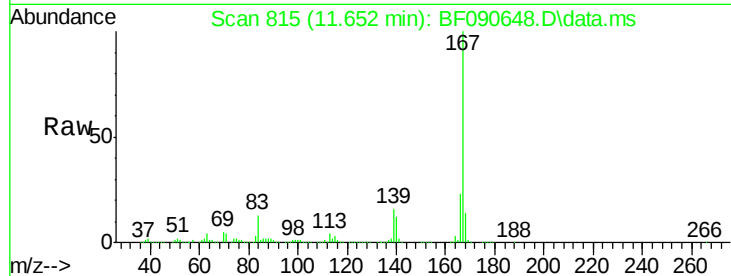
Tot Ion:167 Resp: 1766548

Ion Ratio Lower Upper

167 100

166 23.0 17.8 26.8

139 15.6 11.3 16.9



#73

Di-n-butylphthalate

Concen: 35.62 ng

RT: 11.983 min Scan# 844

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

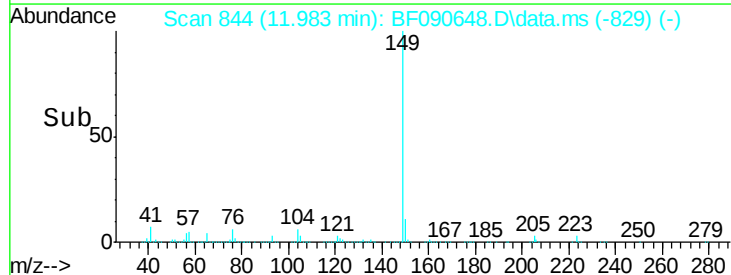
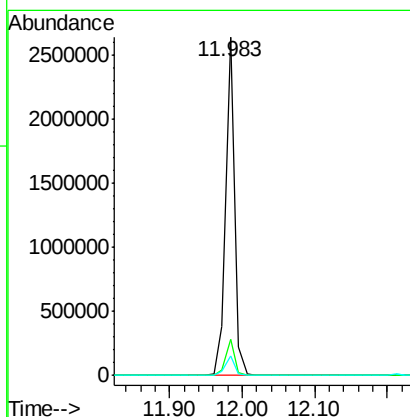
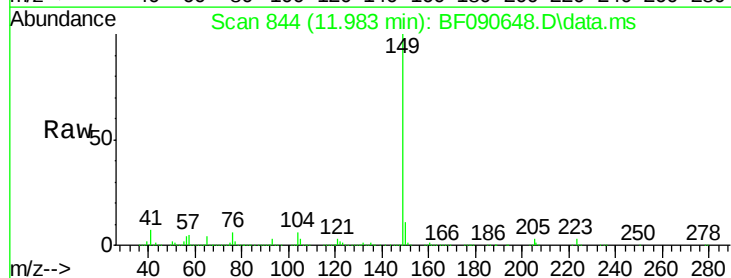
Tgt Ion:149 Resp: 2257100

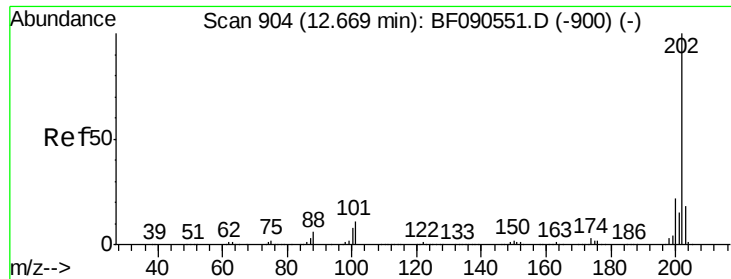
Ion Ratio Lower Upper

149 100

150 10.6 7.8 11.6

104 5.7 3.3 4.9#





#74

Fluoranthene

Concen: 34.49 ng

RT: 12.635 min Scan# 90

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

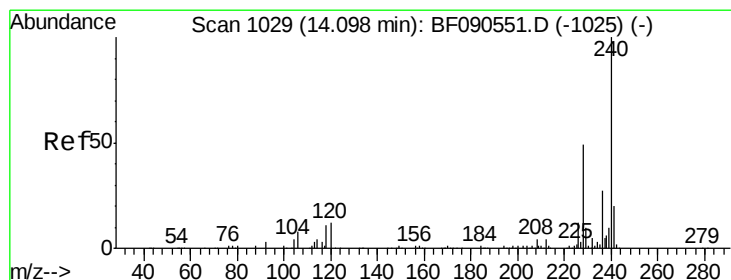
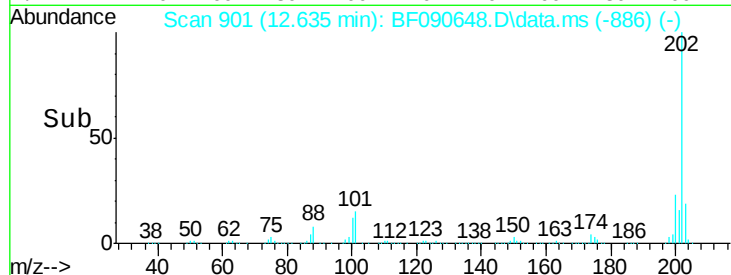
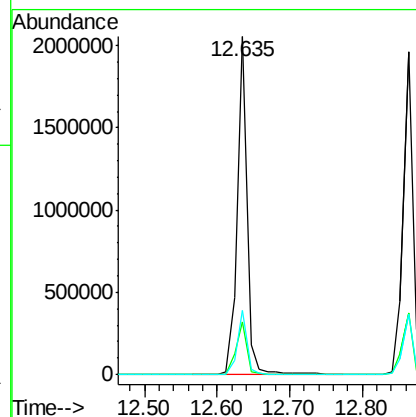
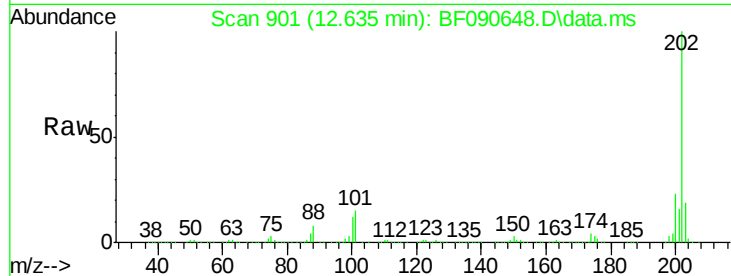
Tot Ion:202 Resp: 1947678

Ion Ratio Lower Upper

202 100

101 15.4 0.0 31.1

203 18.9 0.0 38.0



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.064 min Scan# 1026

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

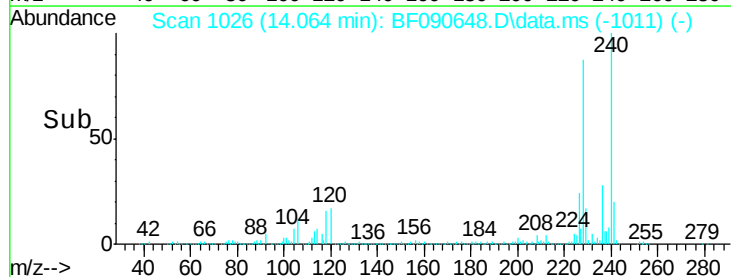
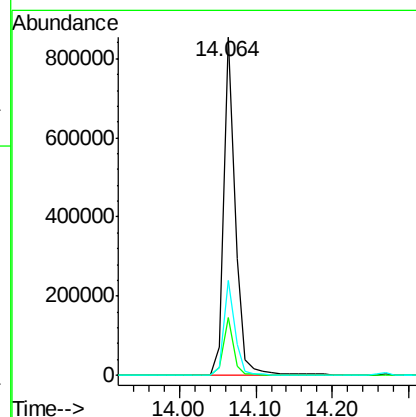
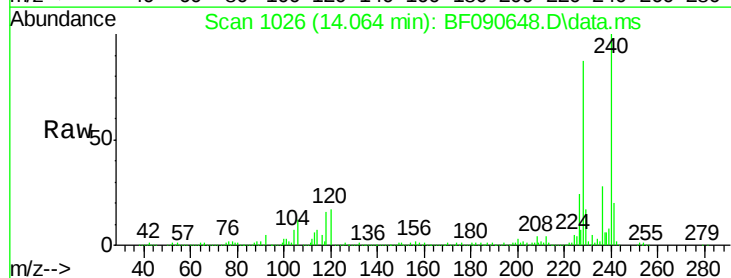
Tgt Ion:240 Resp: 900825

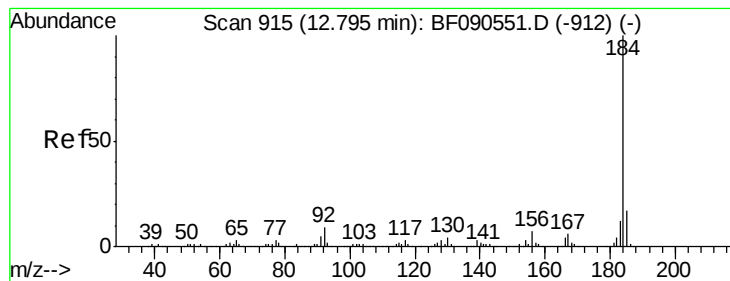
Ion Ratio Lower Upper

240 100

120 17.2 9.8 14.8#

236 28.1 21.7 32.5





#76

Benzidine

Concen: 7.46 ng

RT: 12.761 min Scan# 91

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

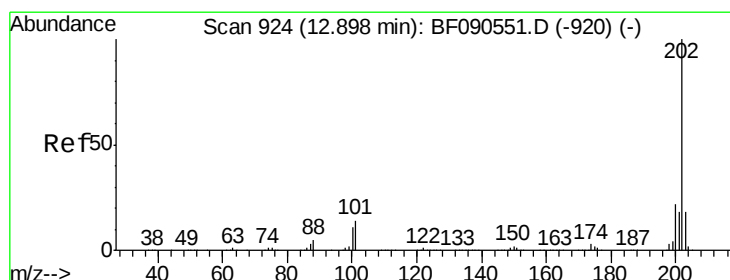
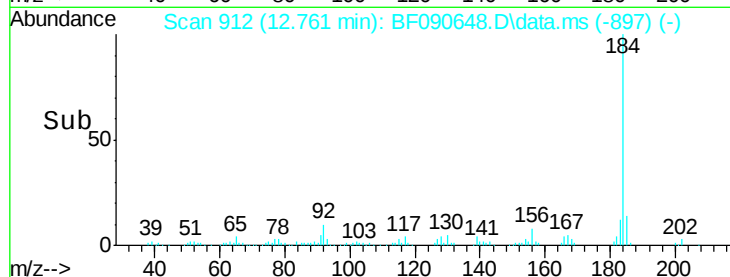
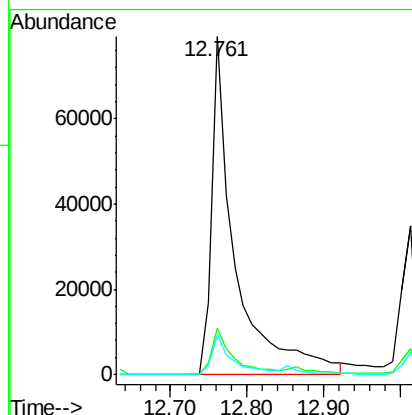
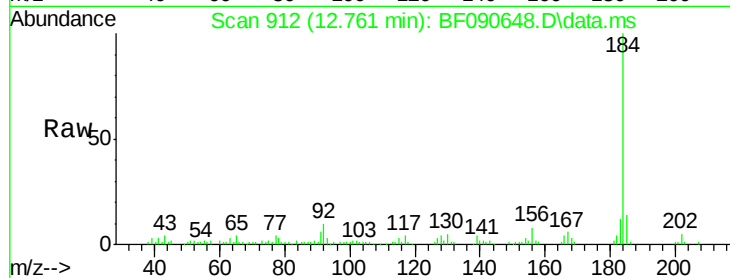
Tot Ion:184 Resp: 167226

Ion Ratio Lower Upper

184 100

185 13.8 13.4 20.0

183 11.7 9.4 14.0



#77

Pyrene

Concen: 31.78 ng

RT: 12.863 min Scan# 921

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

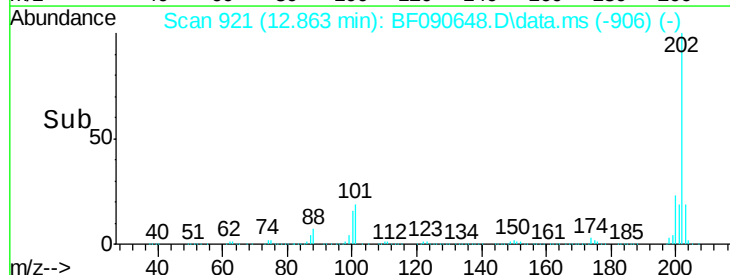
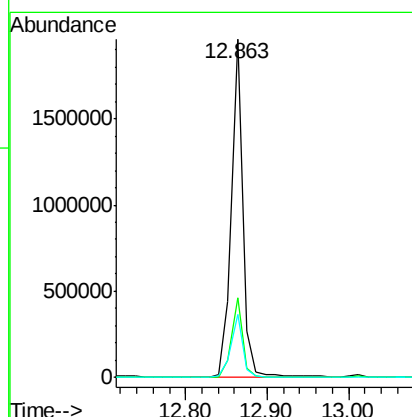
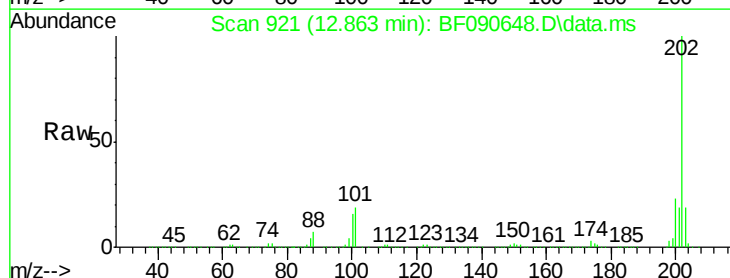
Tgt Ion:202 Resp: 1896253

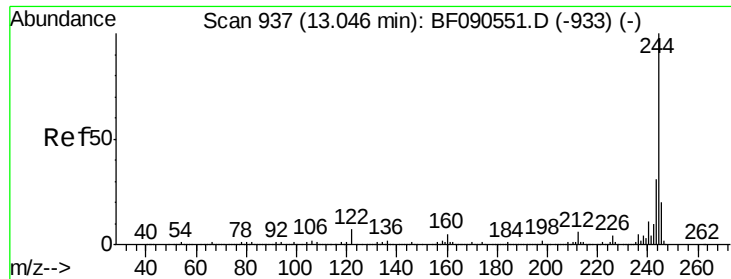
Ion Ratio Lower Upper

202 100

200 23.4 17.8 26.6

203 18.8 14.6 21.8





#78

Terphenyl-d14

Concen: 68.43 ng

RT: 13.012 min Scan# 93

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

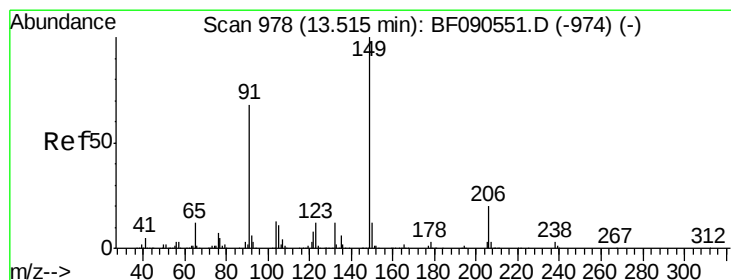
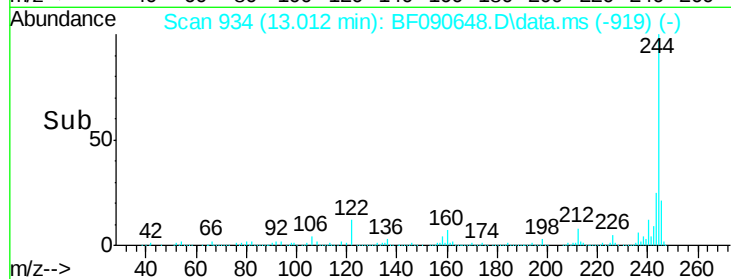
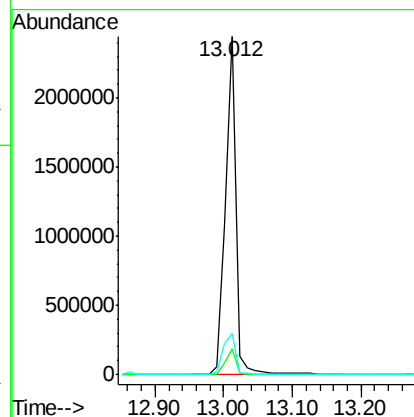
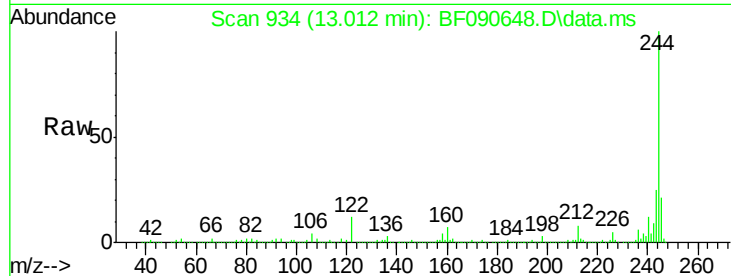
Tot Ion:244 Resp: 2647572

Ion Ratio Lower Upper

244 100

212 7.7 5.0 7.4#

122 12.0 5.6 8.4#



#79

Butylbenzylphthalate

Concen: 37.53 ng

RT: 13.481 min Scan# 975

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

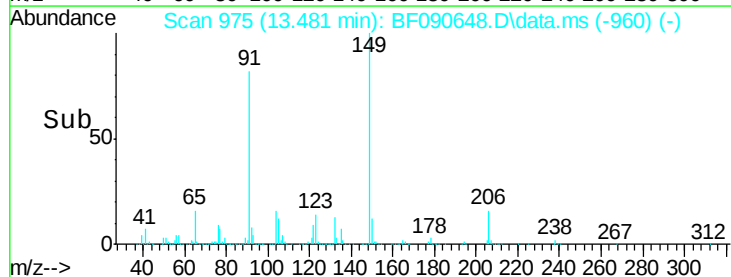
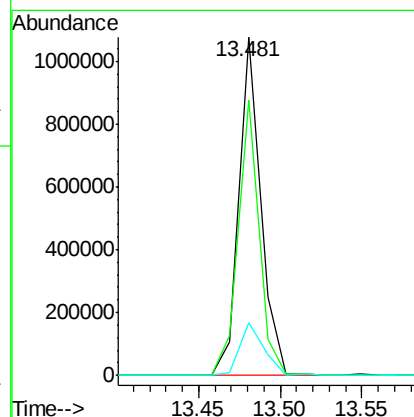
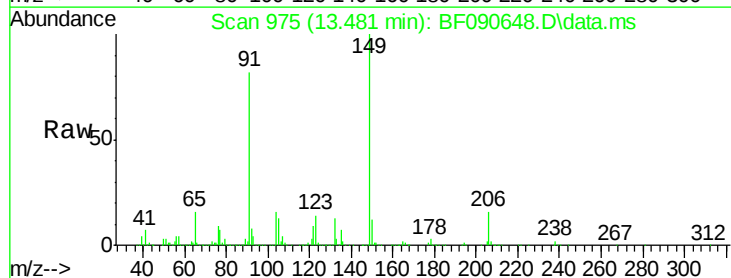
Tgt Ion:149 Resp: 992109

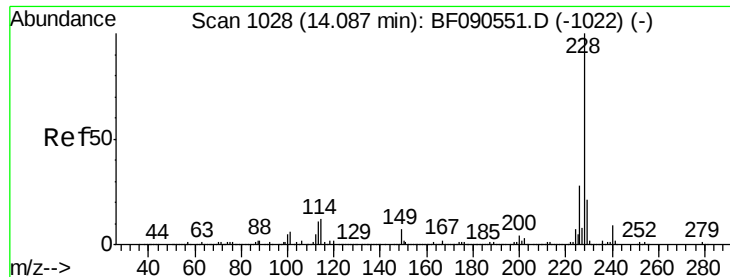
Ion Ratio Lower Upper

149 100

91 81.6 54.3 81.5#

206 15.6 15.8 23.6#





#80

Benzo(a)anthracene

Concen: 35.05 ng

RT: 14.052 min Scan# 10

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

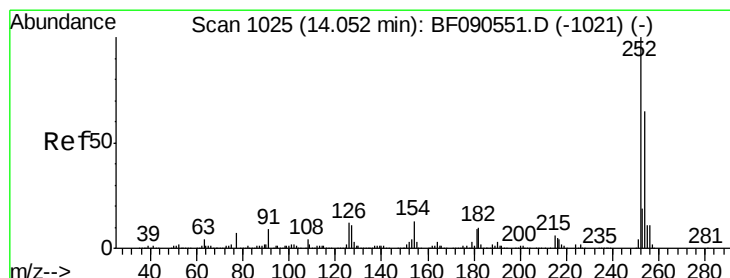
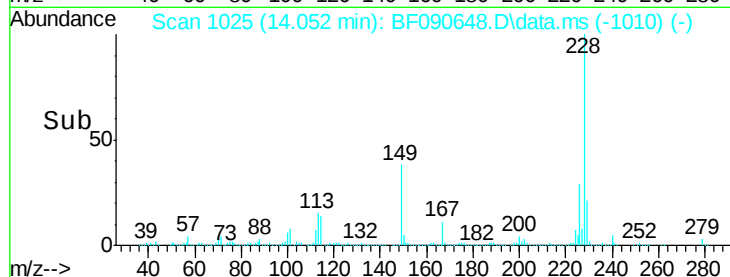
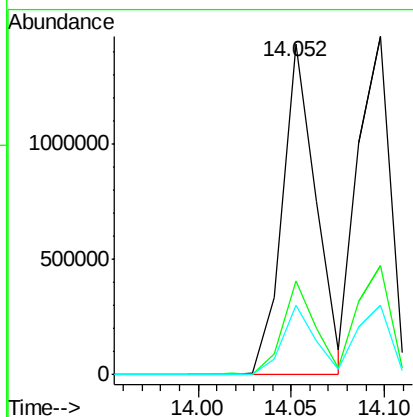
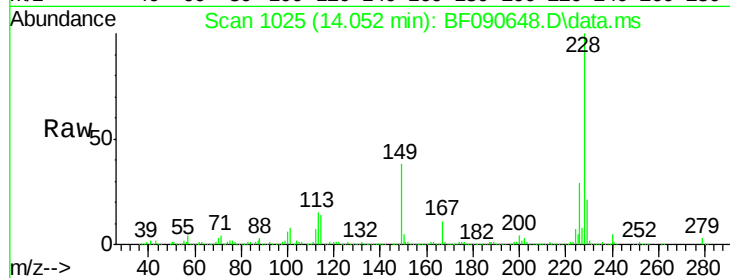
BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tot Ion:228 Resp: 1797596

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.8	34.2
229	20.9	16.6	25.0



#81

3,3'-Dichlorobenzidine

Concen: 18.77 ng

RT: 14.018 min Scan# 1022

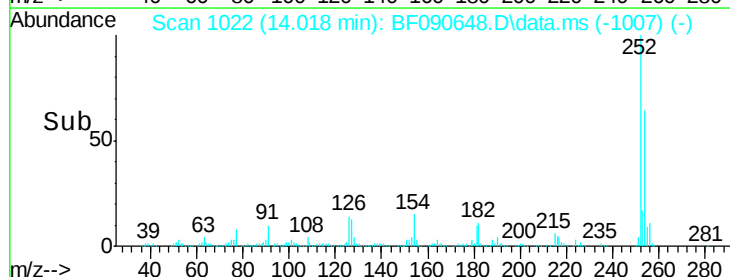
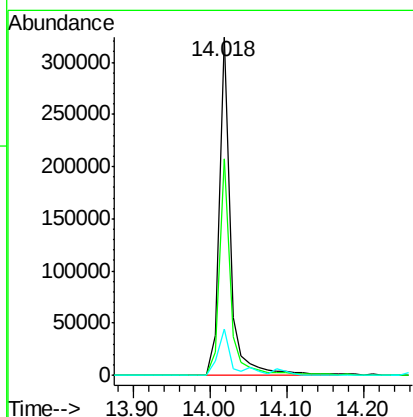
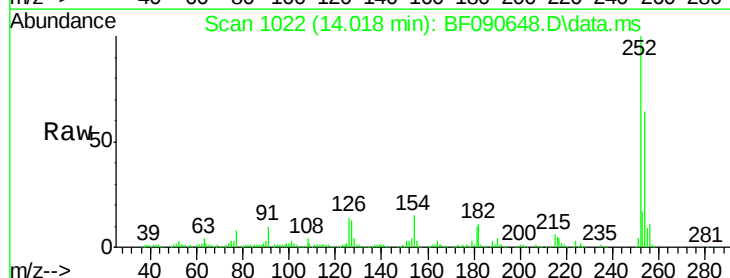
Delta R.T. -0.023 min

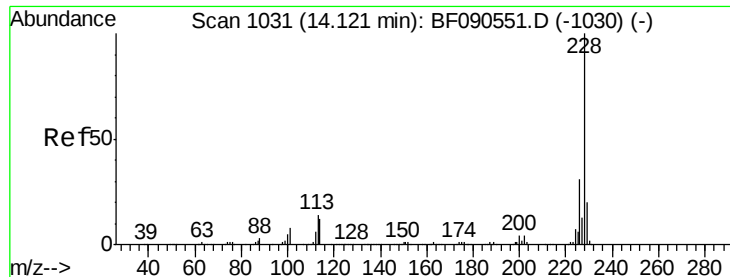
Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Tgt Ion:252 Resp: 328916

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.1	78.1
126	13.7	9.3	13.9





#82

Chrysene

Concen: 37.33 ng

RT: 14.098 min Scan# 10

Delta R.T. -0.012 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

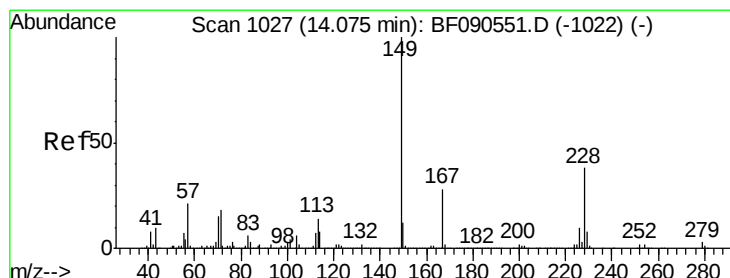
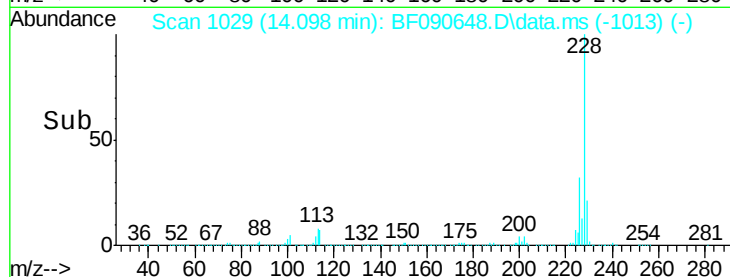
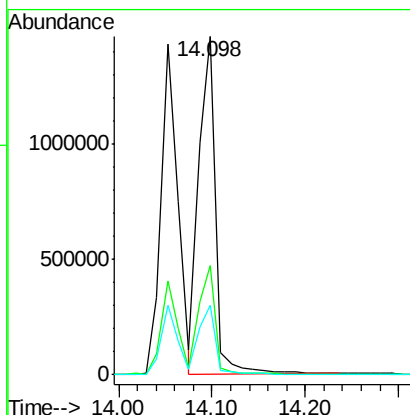
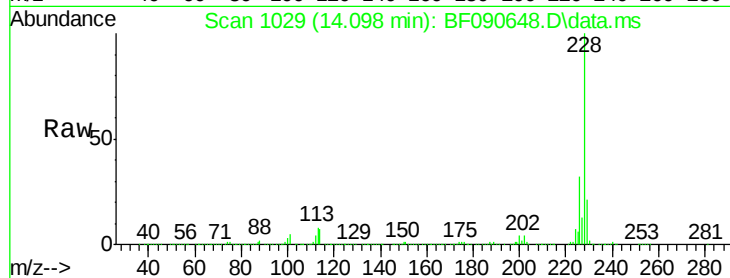
Tot Ion:228 Resp: 1844556

Ion Ratio Lower Upper

228 100

226 32.2 24.8 37.2

229 20.5 16.2 24.4



#83

Bis(2-ethylhexyl)phthalate

Concen: 40.39 ng

RT: 14.041 min Scan# 1024

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

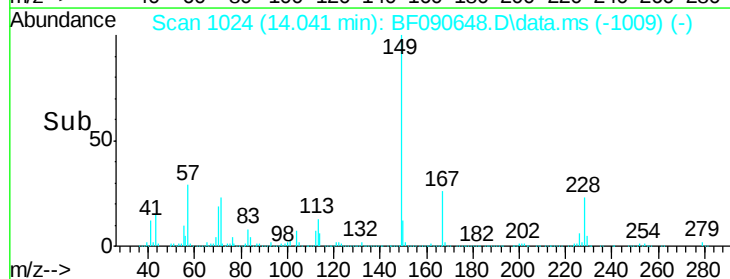
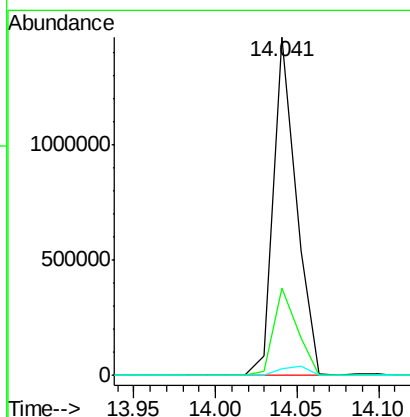
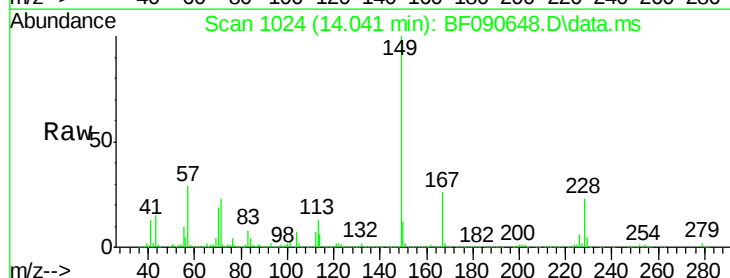
Tgt Ion:149 Resp: 1440238

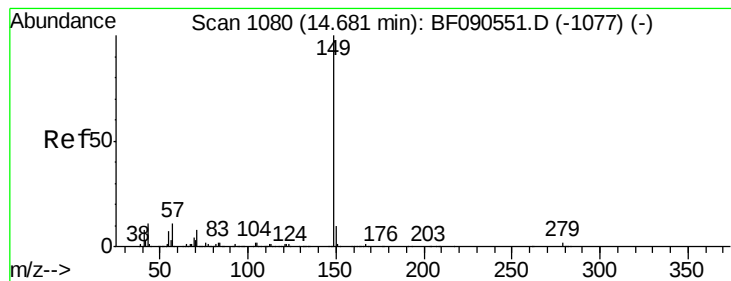
Ion Ratio Lower Upper

149 100

167 25.9 22.1 33.1

279 1.9 2.6 4.0#





#84

Di-n-octyl phthalate

Concen: 50.22 ng

RT: 14.658 min Scan# 10

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

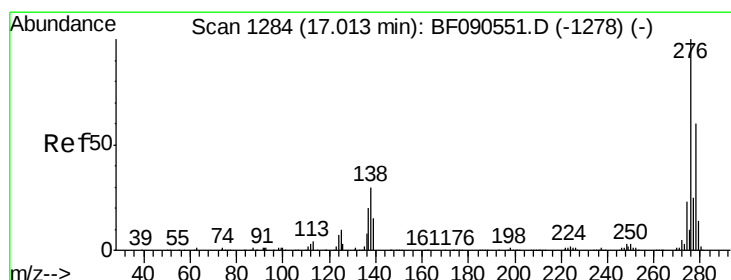
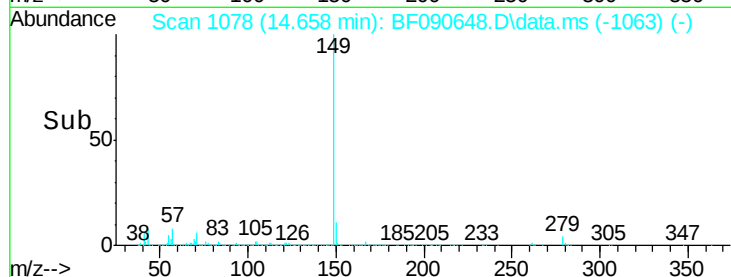
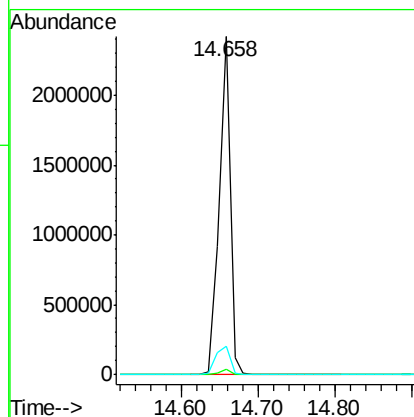
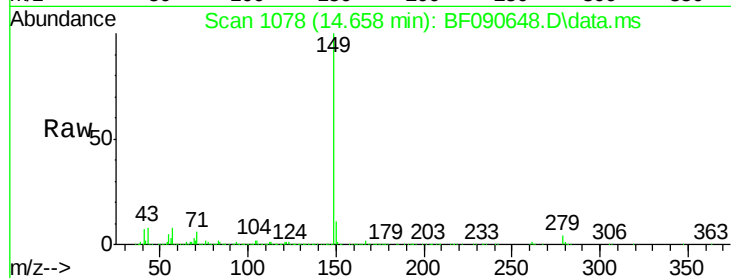
Tot Ion:149 Resp: 2401417

Ion Ratio Lower Upper

149 100

167 1.7 1.2 1.8

43 10.5 6.7 10.1#



#85

Indeno(1,2,3-cd)pyrene

Concen: 40.74 ng

RT: 16.955 min Scan# 1279

Delta R.T. -0.035 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

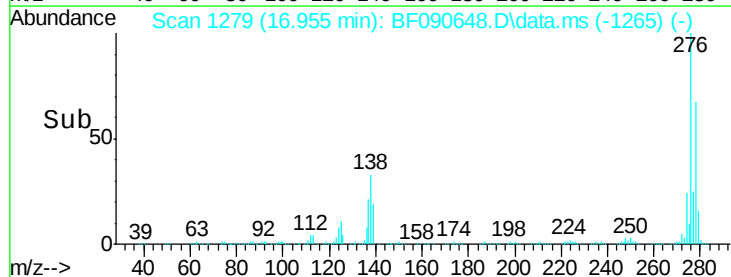
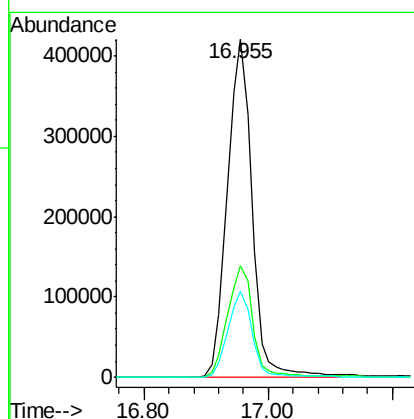
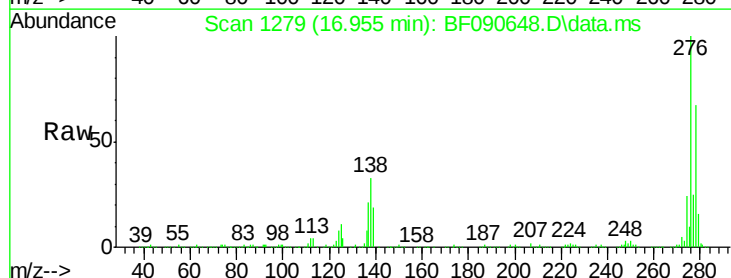
Tgt Ion:276 Resp: 1163965

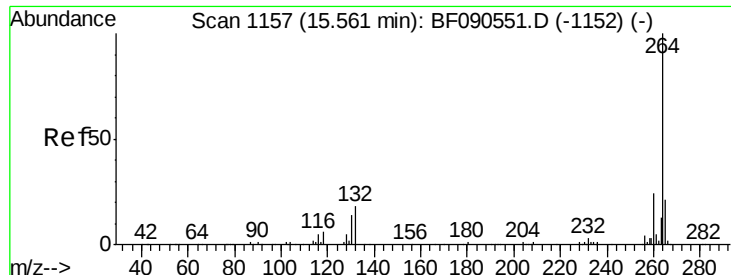
Ion Ratio Lower Upper

276 100

138 33.9 25.8 38.6

277 25.3 20.1 30.1

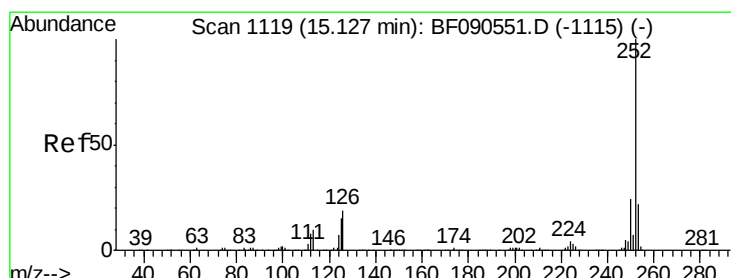
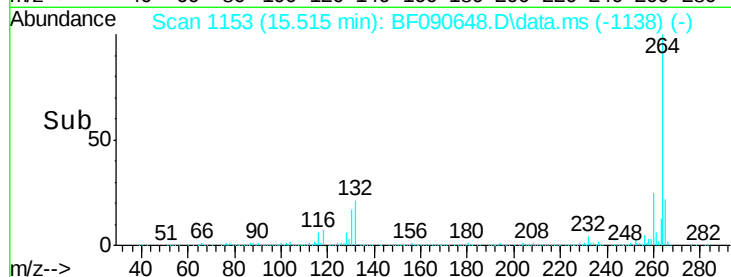
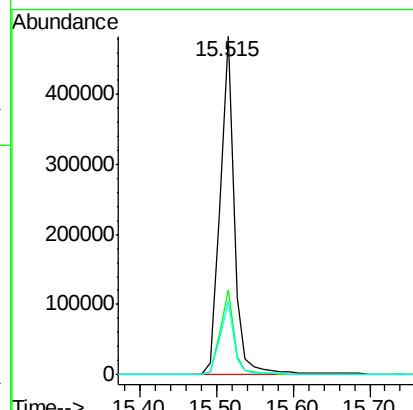
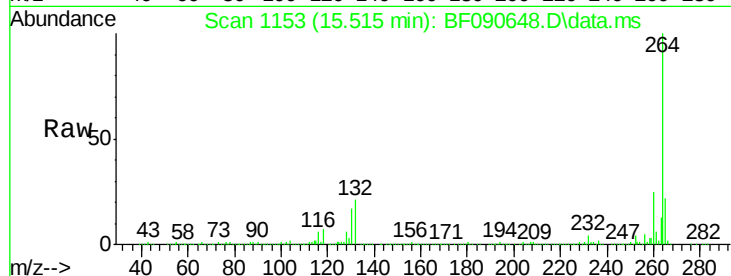




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.515 min Scan# 111
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

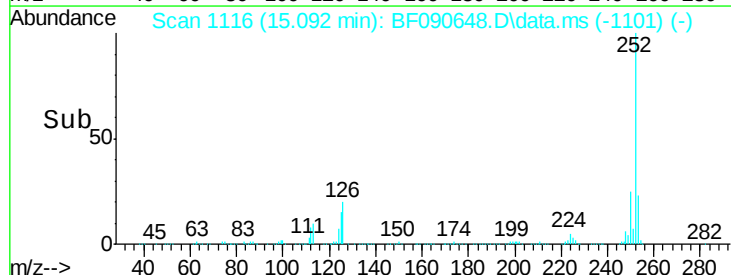
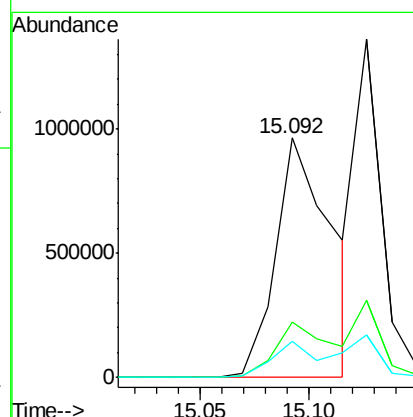
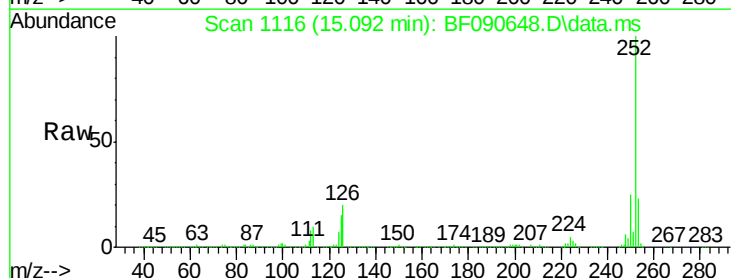
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

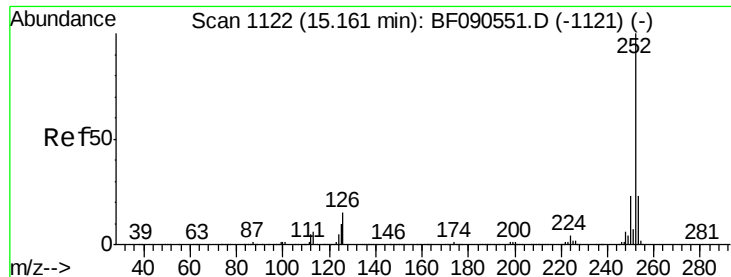
Tot Ion:264 Resp: 619177
Ion Ratio Lower Upper
264 100
260 25.2 19.3 28.9
265 21.6 16.7 25.1



#87
Benzo(b)fluoranthene
Concen: 42.44 ng
RT: 15.092 min Scan# 1116
Delta R.T. -0.023 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion:252 Resp: 1719447
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 14.9 12.0 18.0





#88

Benzo(k)fluoranthene

Concen: 39.44 ng

RT: 15.092 min Scan# 111

Delta R.T. -0.057 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

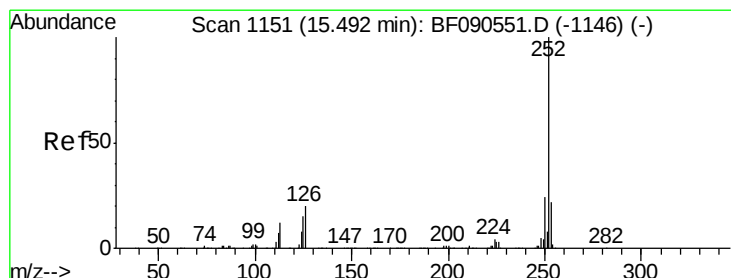
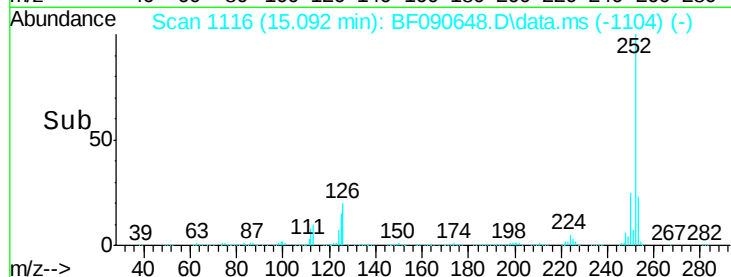
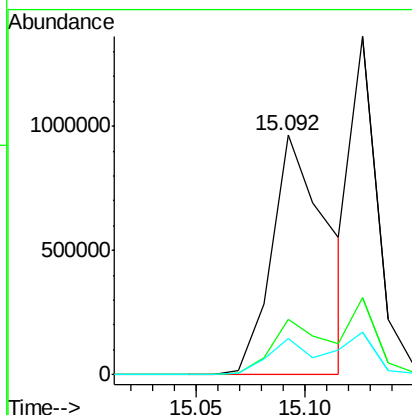
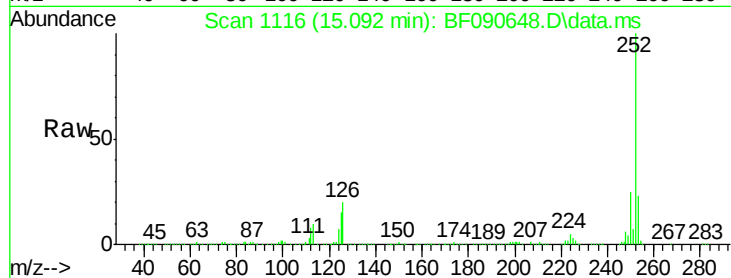
Tot Ion:252 Resp: 1719447

Ion Ratio Lower Upper

252 100

253 22.9 18.0 27.0

125 14.9 10.0 15.0



#89

Benzo(a)pyrene

Concen: 34.85 ng

RT: 15.458 min Scan# 1148

Delta R.T. -0.023 min

Lab File: BF090648.D

Acq: 19 Oct 2016 15:31

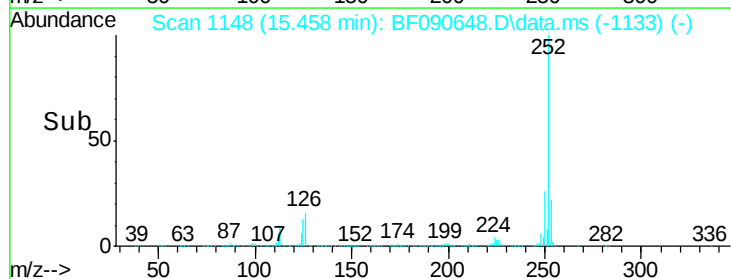
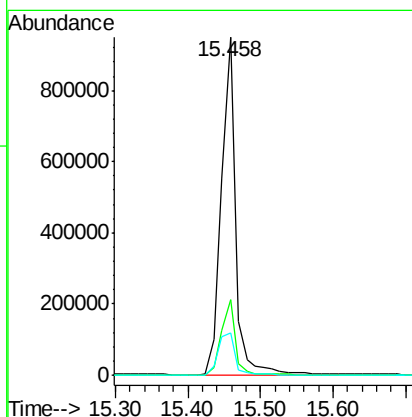
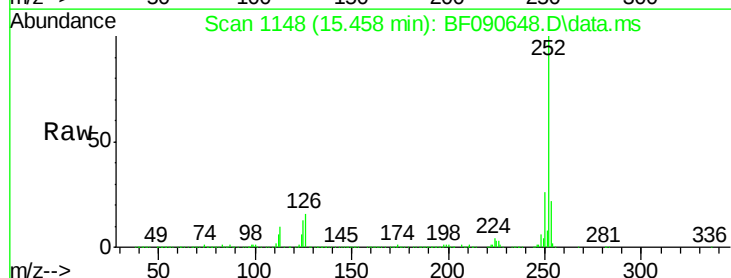
Tgt Ion:252 Resp: 1292782

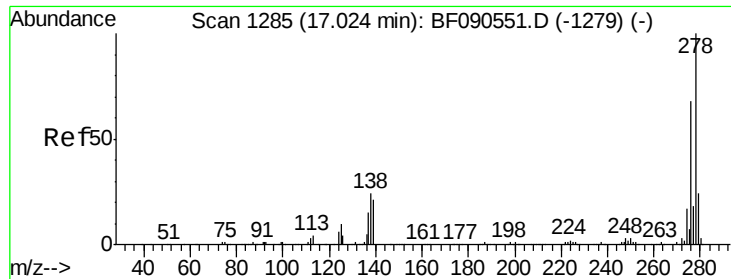
Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

125 12.7 12.3 18.5

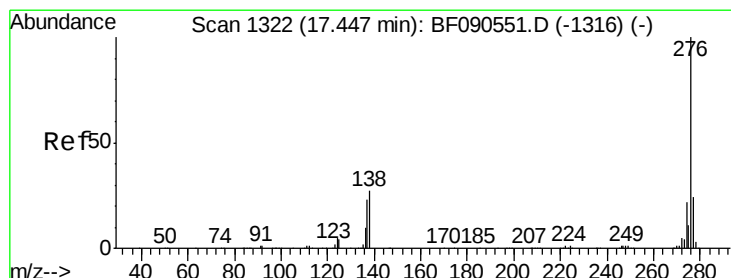
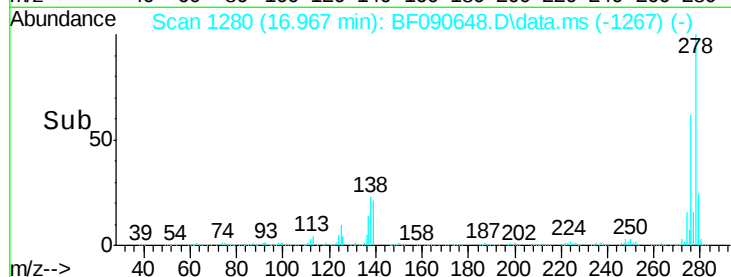
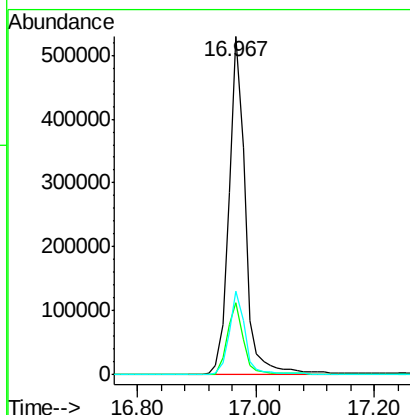
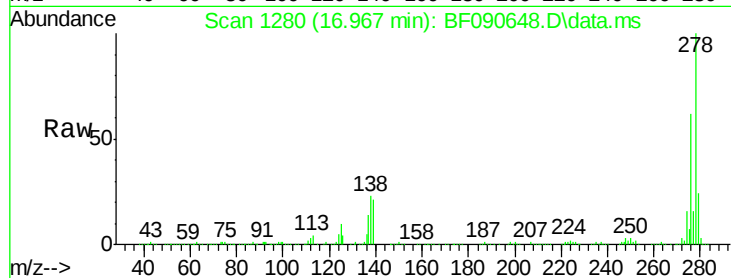




#90
Dibenzo(a,h)anthracene
Concen: 35.65 ng
RT: 16.967 min Scan# 12
Delta R.T. -0.046 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

Tot Ion:278 Resp: 1008519
Ion Ratio Lower Upper
278 100
139 21.3 16.6 25.0
279 24.5 19.1 28.7



#91
Benzo(g,h,i)perylene
Concen: 33.45 ng
RT: 17.390 min Scan# 1317
Delta R.T. -0.035 min
Lab File: BF090648.D
Acq: 19 Oct 2016 15:31

Tgt Ion:276 Resp: 902273
Ion Ratio Lower Upper
276 100
277 24.0 18.8 28.2
138 26.8 21.8 32.8

