

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022515\
 Data File : BF077439.D
 Acq On : 25 Feb 2015 17:52
 Operator : IZ / TP
 Sample : G1336-01MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Quant Time: Feb 26 03:37:49 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 03:18:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.29	152	76226	20.00	ng	0.00
21) Naphthalene-d8	8.86	136	299797	20.00	ng	0.00
38) Acenaphthene-d10	11.04	164	153790	20.00	ng	0.00
63) Phenanthrene-d10	12.88	188	303640	20.00	ng	-0.01
75) Chrysene-d12	16.18	240	336627	20.00	ng	0.00
86) Perylene-d12	17.95	264	321996	20.00	ng	0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.58	112	291739	63.89	ng	0.00
7) Phenol-d6	6.84	99	379738	64.68	ng	0.00
23) Nitrobenzene-d5	7.97	82	269098	55.82	ng	-0.01
41) 2,4,6-Tribromophenol	12.02	330	102651	69.32	ng	0.00
44) 2-Fluorobiphenyl	10.21	172	620543	62.92	ng	0.00
78) Terphenyl-d14	14.88	244	772095	53.62	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.26	88	53322	27.52	ng	95
3) Pyridine	2.98	79	166589	30.05	ng	97
4) n-Nitrosodimethylamine	2.91	42	76642	31.80	ng	95
6) Aniline	6.88	93	121707	15.00	ng	96
8) 2-Chlorophenol	7.01	128	175231	32.53	ng	96
10) Phenol	6.85	94	205747	29.54	ng	94
11) bis(2-Chloroethyl)ether	6.98	93	147667	29.50	ng	98
12) 1,3-Dichlorobenzene	7.21	146	181878	31.01	ng	97
13) 1,4-Dichlorobenzene	7.31	146	186814	31.31	ng	98
14) 1,2-Dichlorobenzene	7.49	146	177352	31.25	ng	98
15) Benzyl Alcohol	7.46	79	134457	30.13	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.64	45	206202	28.82	ng	97
17) 2-Methylphenol	7.61	107	133862	31.80	ng	97
18) Hexachloroethane	7.92	117	61284	30.75	ng	91
19) n-Nitroso-di-n-propylamine	7.80	70	119763	32.12	ng	94
20) 3+4-Methylphenols	7.80	107	177437	32.00	ng	# 84
22) Acetophenone	7.79	105	221582	31.42	ng	94
24) Nitrobenzene	8.00	77	166048	32.74	ng	# 81
25) Isophorone	8.30	82	298520	31.21	ng	97
26) 2-Nitrophenol	8.40	139	80169	38.56	ng	93
27) 2,4-Dimethylphenol	8.45	122	156455	33.64	ng	97
28) bis(2-Chloroethoxy)methane	8.58	93	197006	32.60	ng	99
29) 2,4-Dichlorophenol	8.69	162	145895	33.42	ng	98
30) 1,2,4-Trichlorobenzene	8.80	180	156212	32.54	ng	98
31) Naphthalene	8.89	128	483472	32.25	ng	100
32) Benzoic acid	8.54	122	84702	37.48	ng	94
33) 4-Chloroaniline	8.96	127	105937	15.89	ng	# 87
34) Hexachlorobutadiene	9.05	225	86044	31.40	ng	99
35) Caprolactam	9.38	113	44216	33.17	ng	93
36) 4-Chloro-3-methylphenol	9.56	107	141606	32.26	ng	92
37) 2-Methylnaphthalene	9.74	142	329391	30.94	ng	97
39) 1,2,4,5-Tetrachlorobenzene	9.95	216	150384	34.08	ng	98
40) Hexachlorocyclopentadiene	9.94	237	166260	70.27	ng	96
42) 2,4,6-Trichlorophenol	10.10	196	110478	37.81	ng	99

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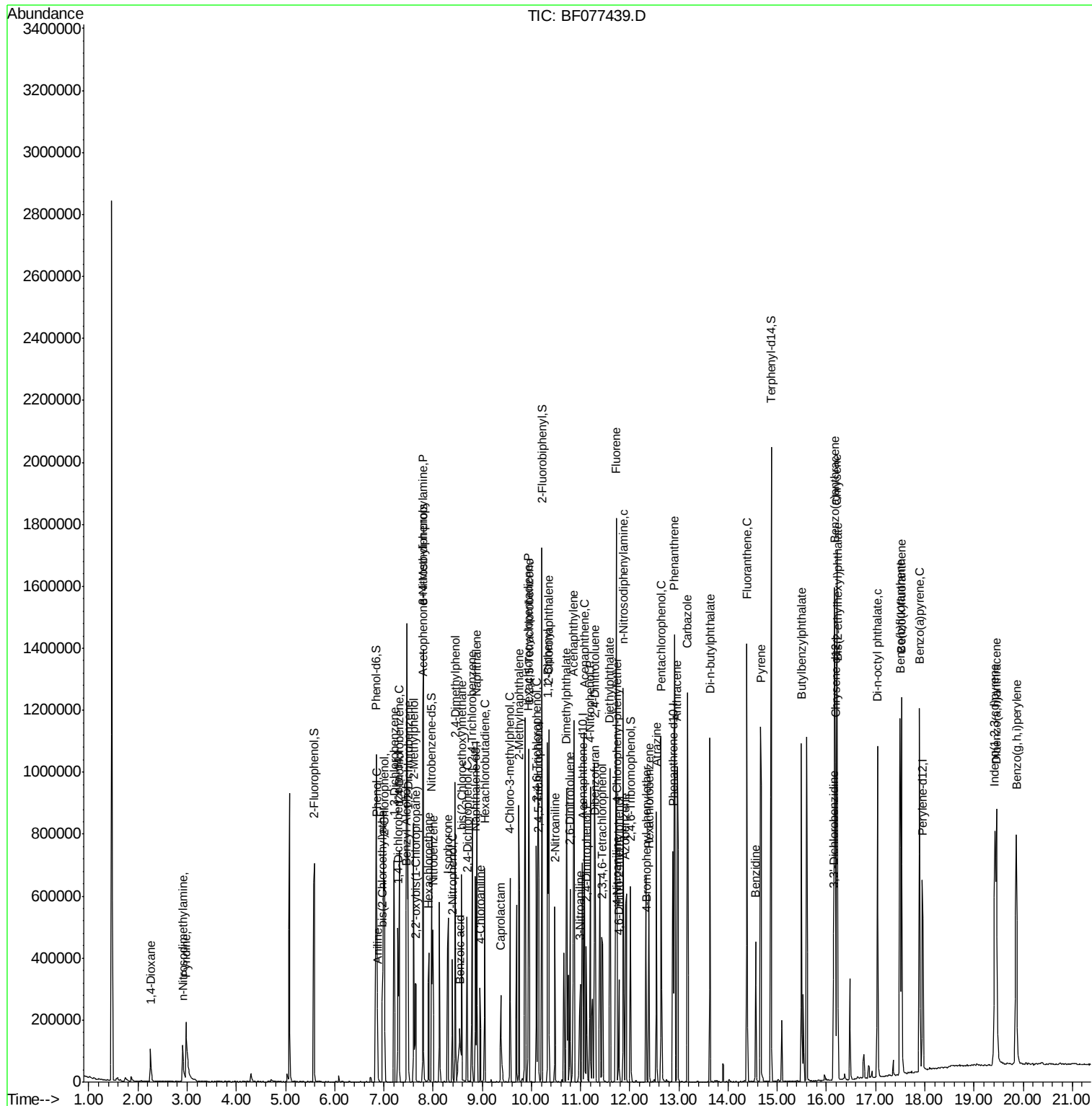
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,5-Trichlorophenol	10.14	196	115974	37.11	ng	97
45) 1,1'-Biphenyl	10.33	154	389743	33.45	ng	96
46) 2-Chloronaphthalene	10.35	162	327260	35.81	ng	98
47) 2-Nitroaniline	10.48	65	88418	39.31	ng	89
48) Acenaphthylene	10.87	152	529371	36.59	ng	100
49) Dimethylphthalate	10.72	163	378038	34.97	ng	99
50) 2,6-Dinitrotoluene	10.79	165	81618	37.65	ng	# 58
51) Acenaphthene	11.08	154	303360	35.14	ng	99
52) 3-Nitroaniline	10.99	138	65397	26.16	ng	87
53) 2,4-Dinitrophenol	11.12	184	59182	89.71	ng	# 57
54) Dibenzofuran	11.30	168	467912	35.11	ng	95
55) 4-Nitrophenol	11.20	139	145535	72.39	ng	# 72
56) 2,4-Dinitrotoluene	11.29	165	113426	38.72	ng	94
57) Fluorene	11.72	166	374349	35.13	ng	98
58) 2,3,4,6-Tetrachlorophenol	11.45	232	93495	37.22	ng	98
59) Diethylphthalate	11.60	149	371095	34.82	ng	97
60) 4-Chlorophenyl-phenylether	11.73	204	177861	34.64	ng	91
61) 4-Nitroaniline	11.75	138	92553	38.63	ng	88
62) Azobenzene	11.92	77	340124	33.64	ng	92
64) 4,6-Dinitro-2-methylphenol	11.78	198	41431	35.26	ng	# 59
65) n-Nitrosodiphenylamine	11.87	169	322012	31.96	ng	99
66) 4-Bromophenyl-phenylether	12.34	248	108143	30.41	ng	# 88
67) Hexachlorobenzene	12.40	284	123033	32.24	ng	# 78
68) Atrazine	12.55	200	106928	32.65	ng	98
69) Pentachlorophenol	12.64	266	136712	68.16	ng	96
70) Phenanthrene	12.91	178	584625	33.22	ng	99
71) Anthracene	12.97	178	559904	32.06	ng	98
72) Carbazole	13.17	167	536688	32.32	ng	99
73) Di-n-butylphthalate	13.63	149	603485	30.95	ng	98
74) Fluoranthene	14.39	202	631469	32.85	ng	99
76) Benzidine	14.56	184	228731	20.11	ng	98
77) Pyrene	14.66	202	677498	32.90	ng	99
79) Butylbenzylphthalate	15.49	149	266224	31.42	ng	94
80) Benzo(a)anthracene	16.17	228	646704	32.78	ng	99
81) 3,3'-Dichlorobenzidine	16.15	252	132546	18.34	ng	96
82) Chrysene	16.21	228	608949	32.87	ng	98
83) Bis(2-ethylhexyl)phthalate	16.23	149	368789	27.15	ng	# 96
84) Di-n-octyl phthalate	17.04	149	653782	28.83	ng	98
85) Indeno(1,2,3-cd)pyrene	19.43	276	586848	27.78	ng	98
87) Benzo(b)fluoranthene	17.49	252	675272	36.06	ng	# 96
88) Benzo(k)fluoranthene	17.53	252	564242	30.75	ng	100
89) Benzo(a)pyrene	17.89	252	608123	34.10	ng	98
90) Dibenzo(a,h)anthracene	19.46	278	574822	33.80	ng	98
91) Benzo(g,h,i)perylene	19.86	276	570215	33.22	ng	98

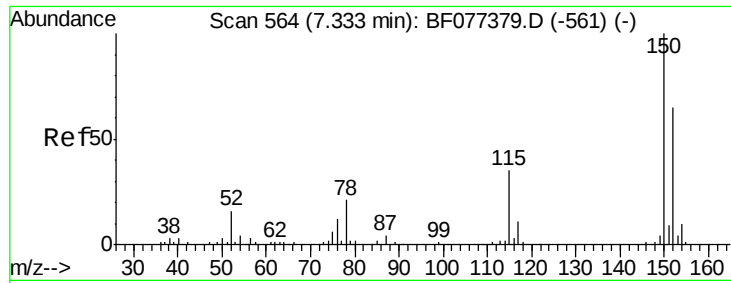
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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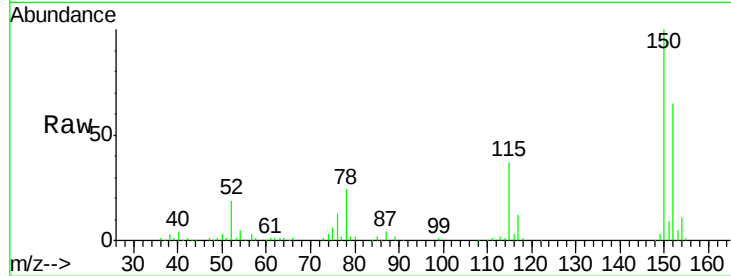


#1

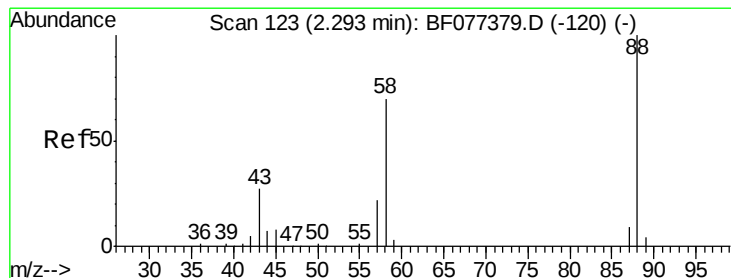
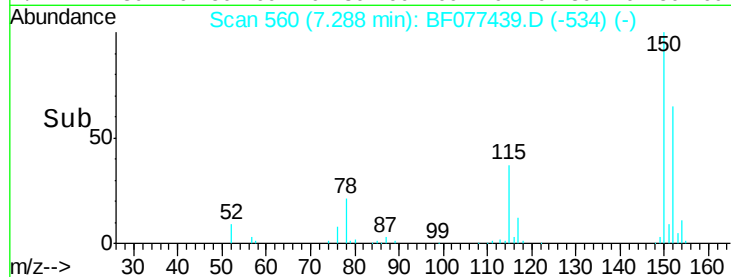
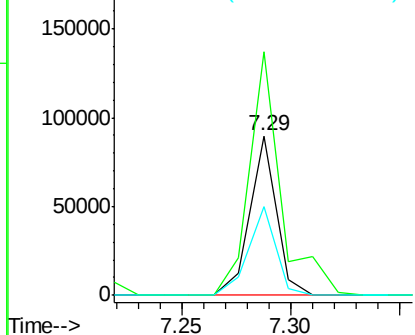
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.29 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMSD

Tgt Ion:152 Resp: 76226
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 56.0 49.4 74.2



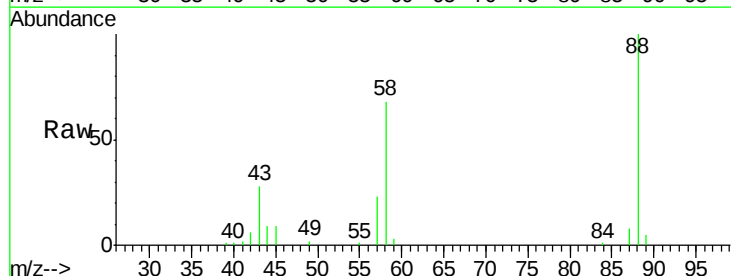
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



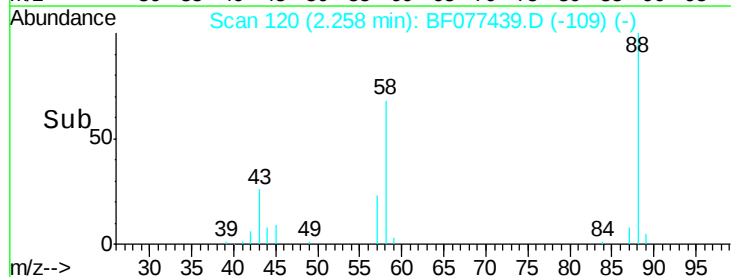
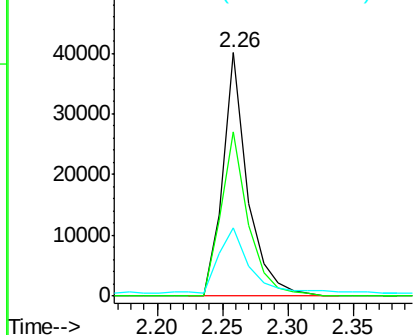
#2

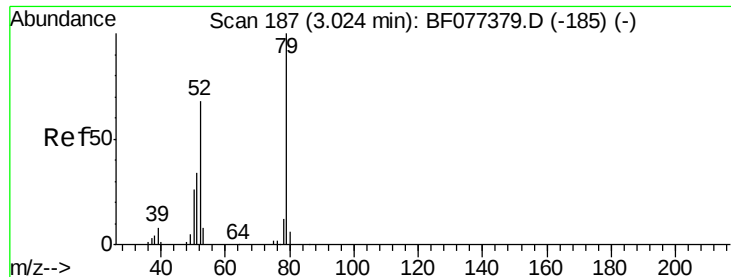
1,4-Dioxane
Concen: 27.52 ng
RT: 2.26 min Scan# 120
Delta R.T. 0.02 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion: 88 Resp: 53322
Ion Ratio Lower Upper
88 100
58 74.2 62.1 93.1
43 33.8 24.0 36.0



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 30.05 ng

RT: 2.98 min Scan# 183

Delta R.T. 0.02 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

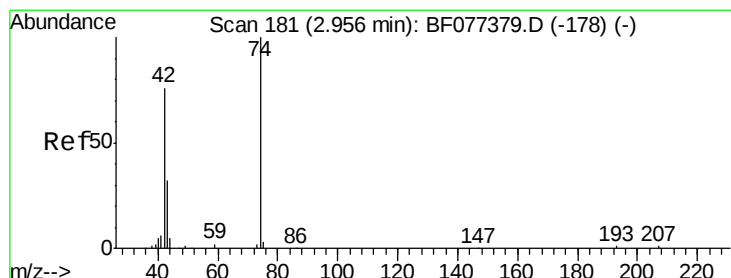
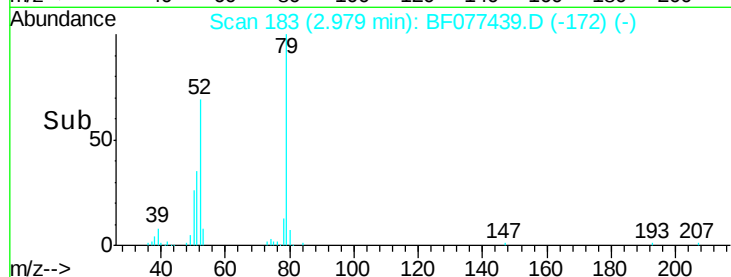
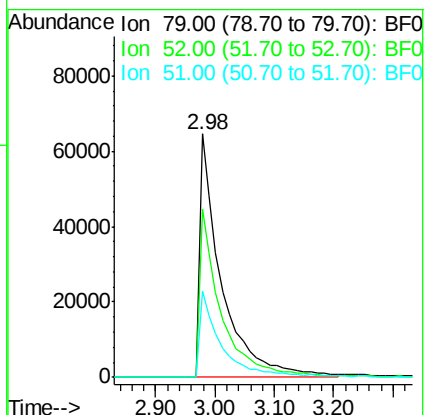
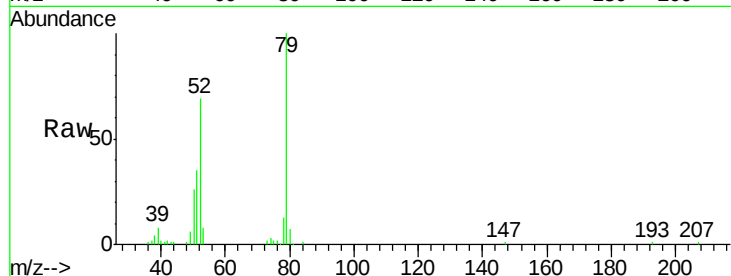
Tgt Ion: 79 Resp: 166589

Ion Ratio Lower Upper

79 100

52 68.9 57.7 86.5

51 35.4 28.5 42.7



#4

n-Nitrosodimethylamine

Concen: 31.80 ng

RT: 2.91 min Scan# 177

Delta R.T. 0.02 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

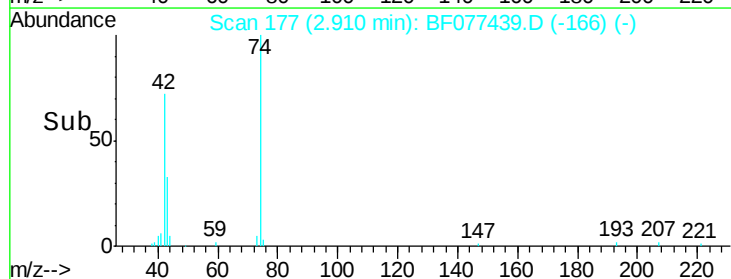
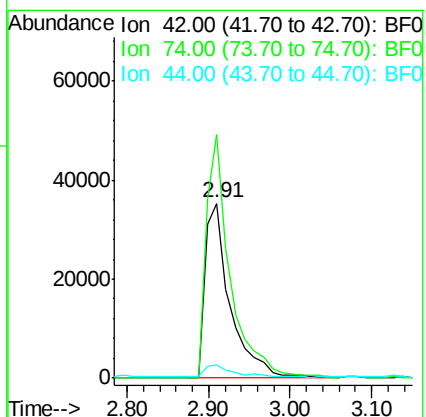
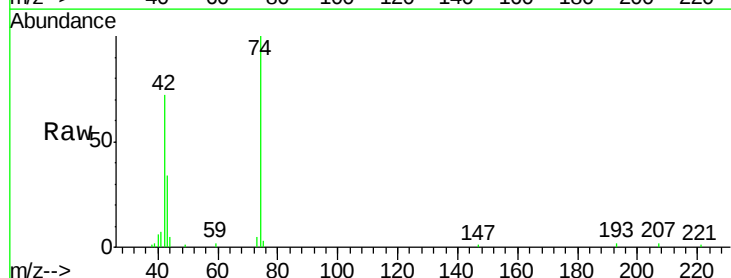
Tgt Ion: 42 Resp: 76642

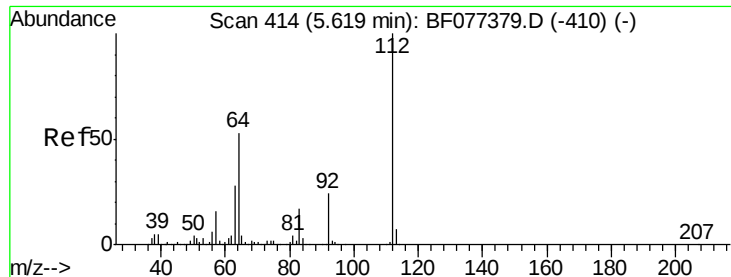
Ion Ratio Lower Upper

42 100

74 139.5 107.1 160.7

44 7.6 6.7 10.1





#5

2-Fluorophenol

Concen: 63.89 ng

RT: 5.58 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF077439.D

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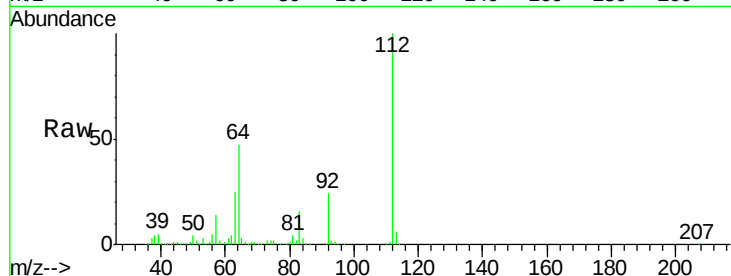
Tgt Ion: 112 Resp: 291739

Ion Ratio Lower Upper

112 100

64 47.2 48.5 72.7#

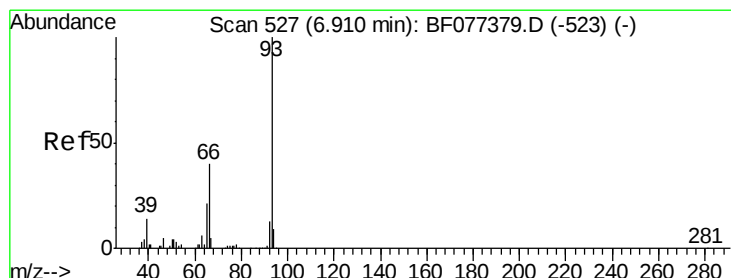
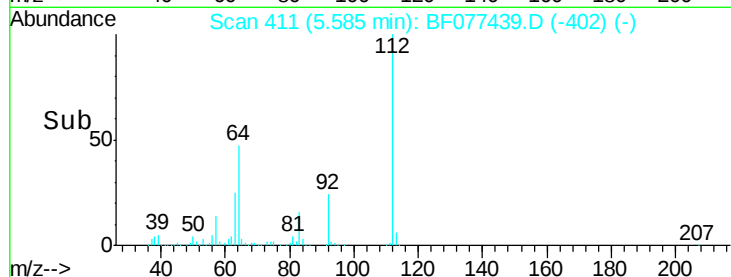
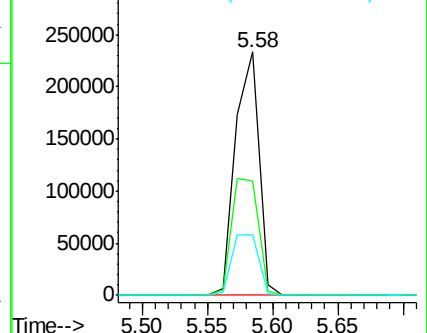
63 24.9 25.0 37.4#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 15.00 ng

RT: 6.88 min Scan# 524

Delta R.T. 0.00 min

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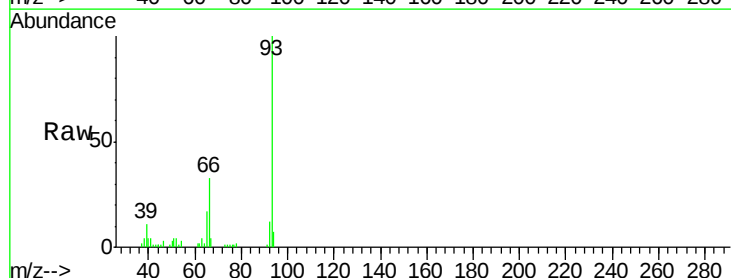
Tgt Ion: 93 Resp: 121707

Ion Ratio Lower Upper

93 100

66 33.2 29.1 43.7

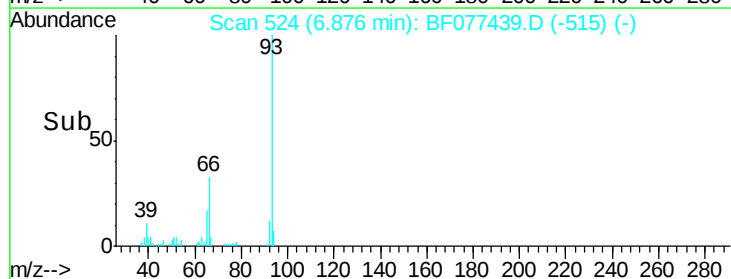
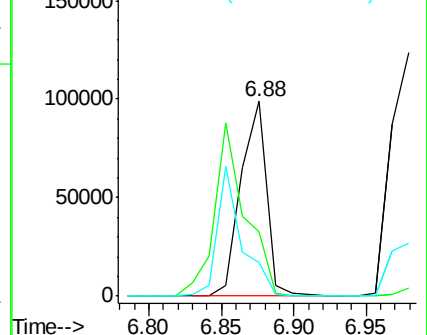
65 17.4 14.6 22.0

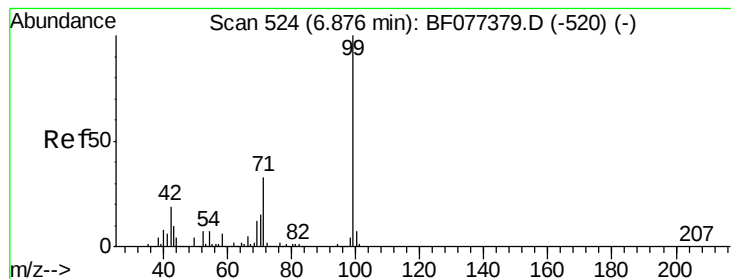


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 64.68 ng

RT: 6.84 min Scan# 521

Delta R.T. 0.00 min

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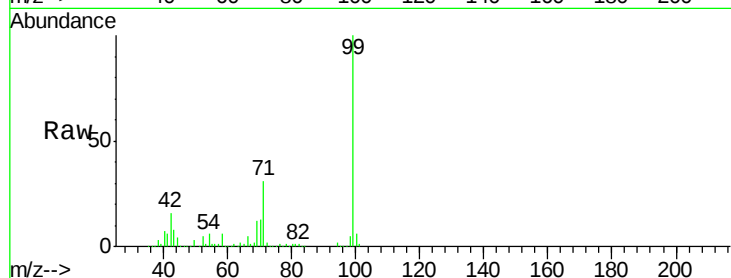
Tgt Ion: 99 Resp: 379738

Ion Ratio Lower Upper

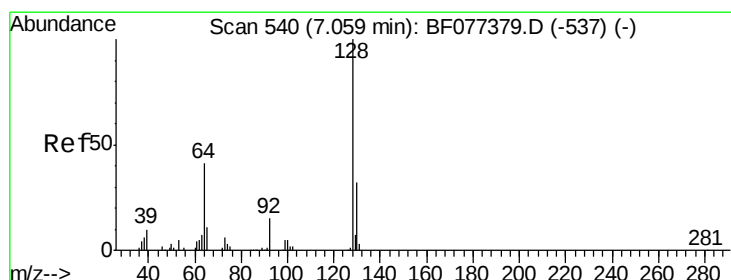
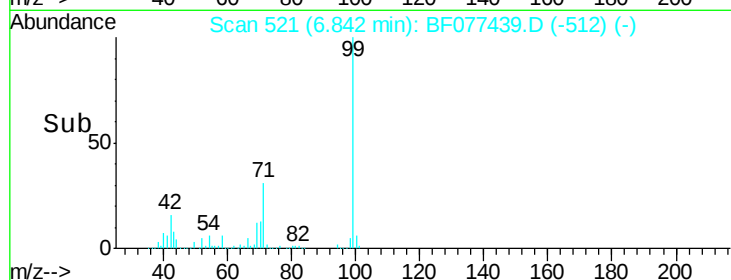
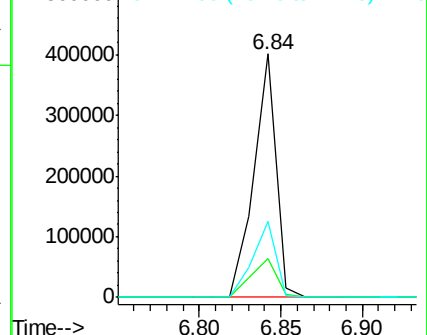
99 100

42 16.1 16.2 24.4#

71 30.9 26.7 40.1



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 32.53 ng

RT: 7.01 min Scan# 536

Delta R.T. 0.00 min

Lab File: BF077439.D

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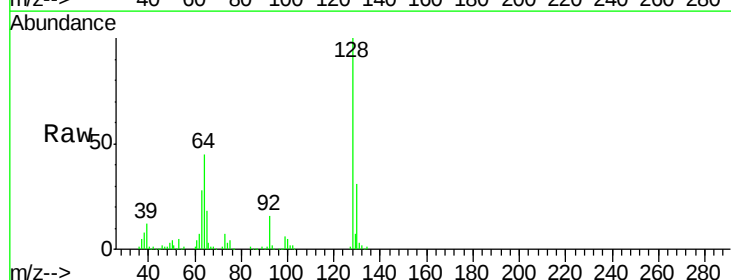
Tgt Ion: 128 Resp: 175231

Ion Ratio Lower Upper

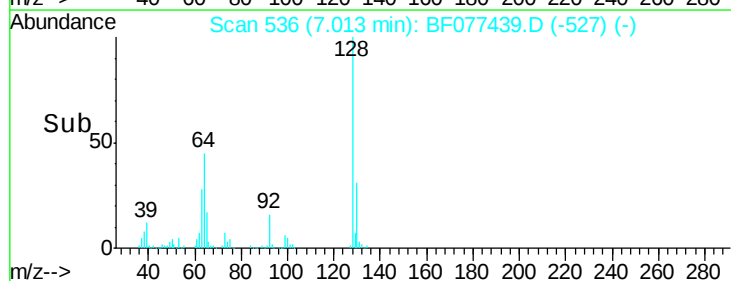
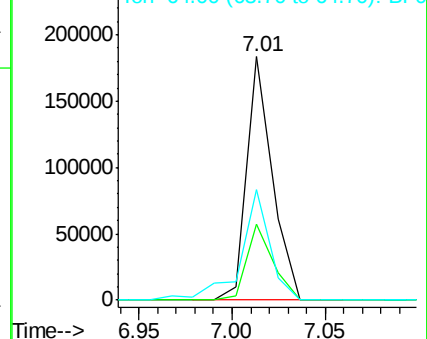
128 100

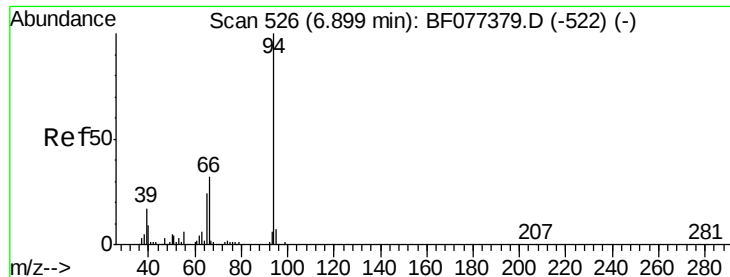
130 31.3 12.0 52.0

64 45.5 29.2 69.2



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): BF0





#10

Phenol

Concen: 29.54 ng

RT: 6.85 min Scan# 522

Delta R.T. -0.01 min

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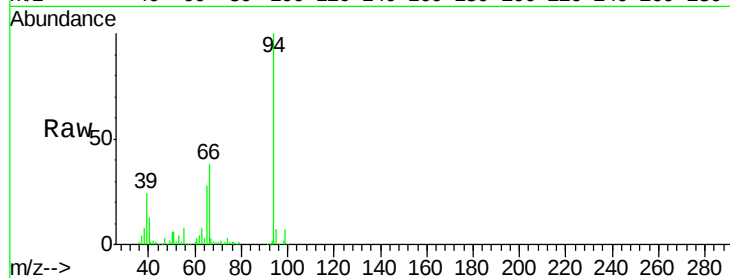
Tgt Ion: 94 Resp: 205747

Ion Ratio Lower Upper

94 100

65 28.3 5.7 45.7

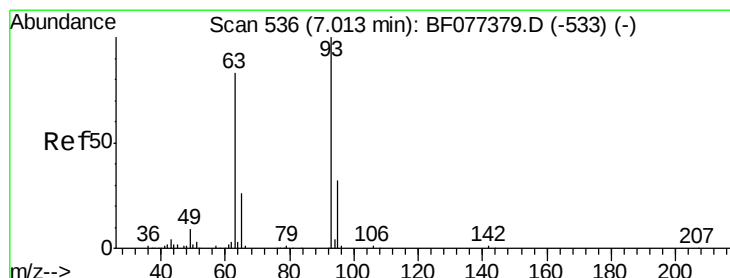
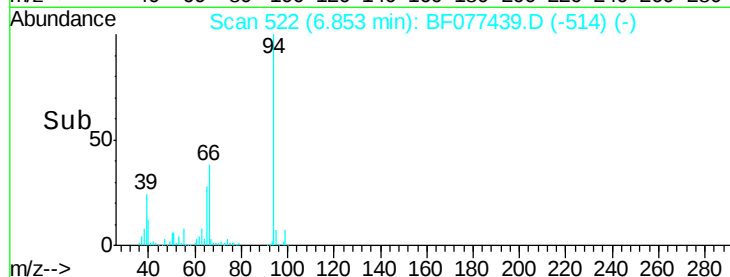
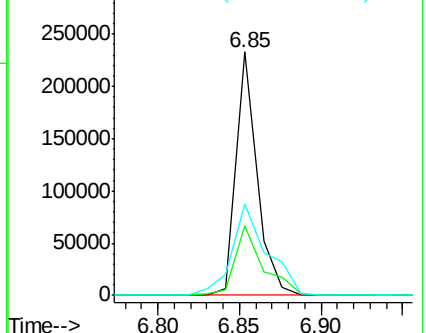
66 37.7 13.6 53.6



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 29.50 ng

RT: 6.98 min Scan# 533

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

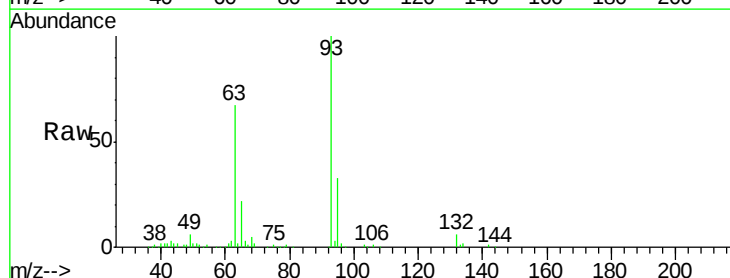
Tgt Ion: 93 Resp: 147667

Ion Ratio Lower Upper

93 100

63 66.9 48.7 88.7

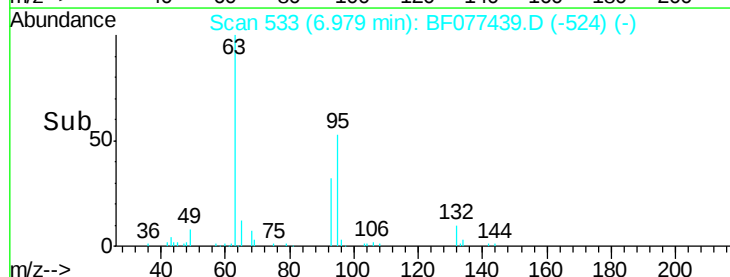
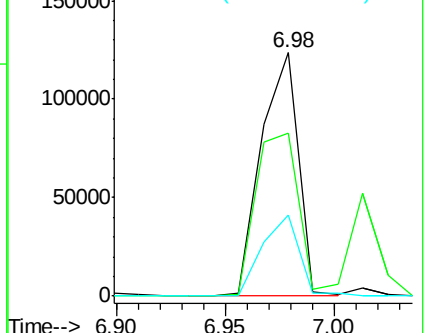
95 33.4 13.6 53.6

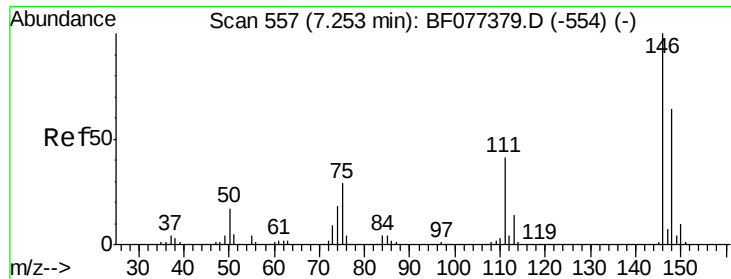


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

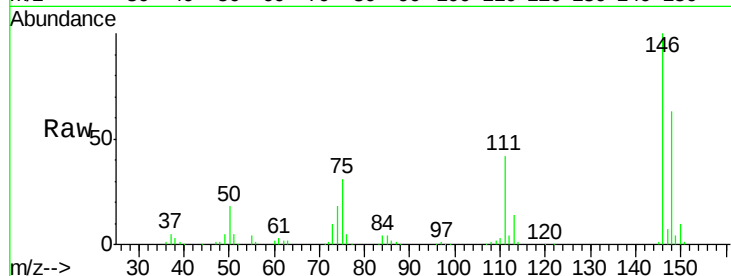




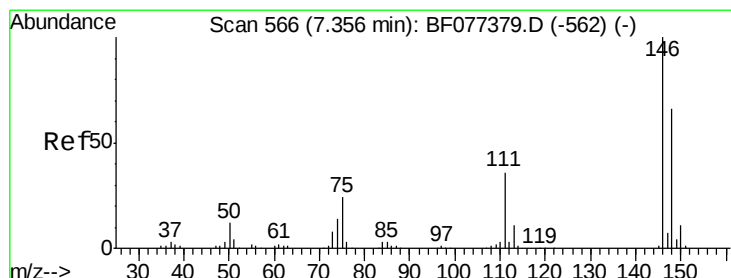
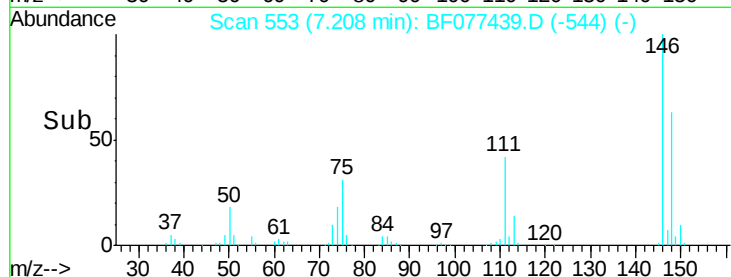
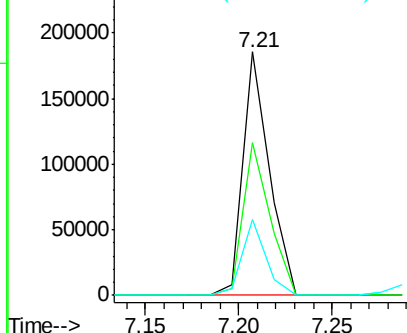
#12
 1,3-Dichlorobenzene
 Concen: 31.01 ng
 RT: 7.21 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion:146 Resp: 181878
 Ion Ratio Lower Upper
 146 100
 148 62.5 49.8 74.8
 75 31.4 28.2 42.4

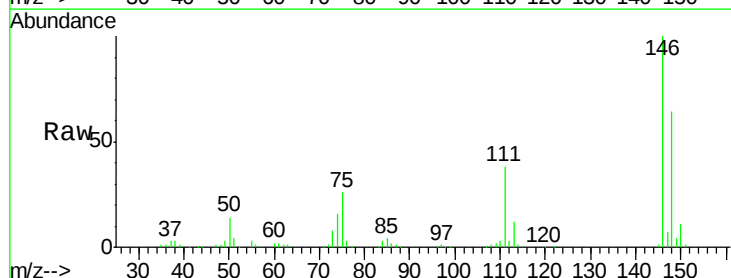


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): BF0

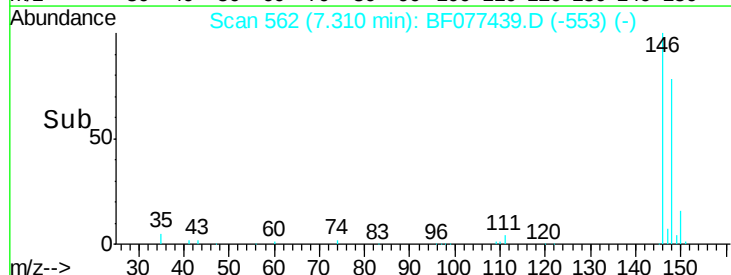
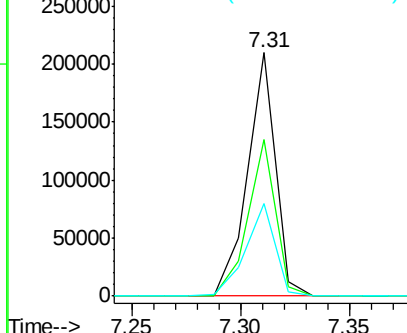


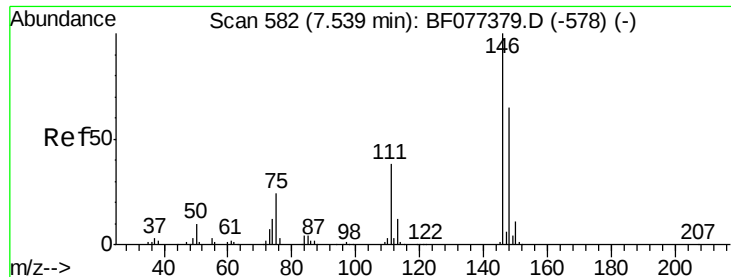
#13
 1,4-Dichlorobenzene
 Concen: 31.31 ng
 RT: 7.31 min Scan# 562
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:146 Resp: 186814
 Ion Ratio Lower Upper
 146 100
 148 64.3 52.0 78.0
 111 37.9 31.9 47.9



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 31.25 ng

RT: 7.49 min Scan# 578

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

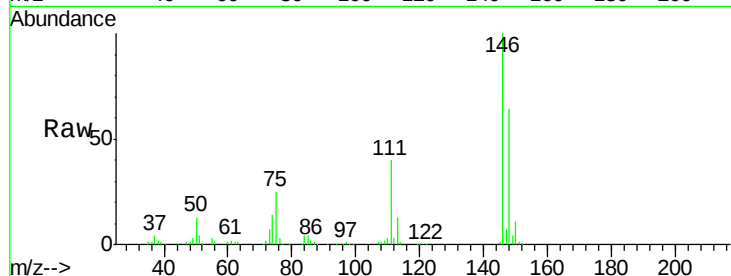
Tgt Ion:146 Resp: 177352

Ion Ratio Lower Upper

146 100

148 63.8 51.6 77.4

111 39.8 34.2 51.2

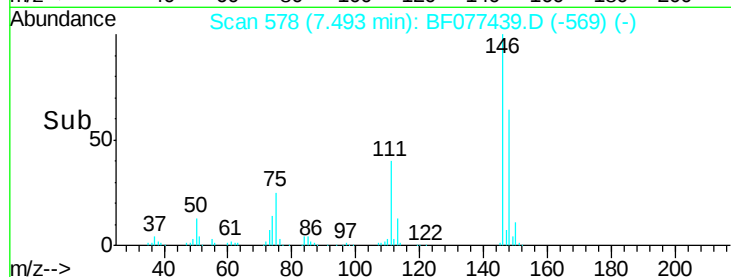


Abundance Ion 146.00 (145.70 to 146.70): E

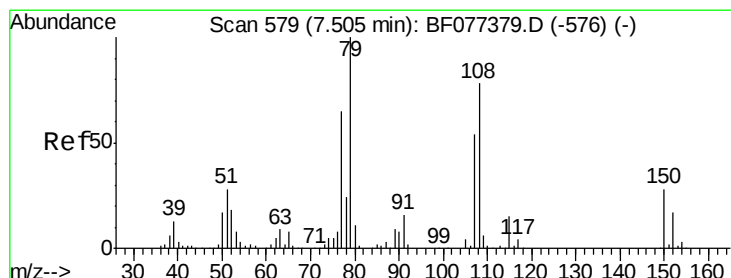
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

Time-->



Time-->



#15

Benzyl Alcohol

Concen: 30.13 ng

RT: 7.46 min Scan# 575

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

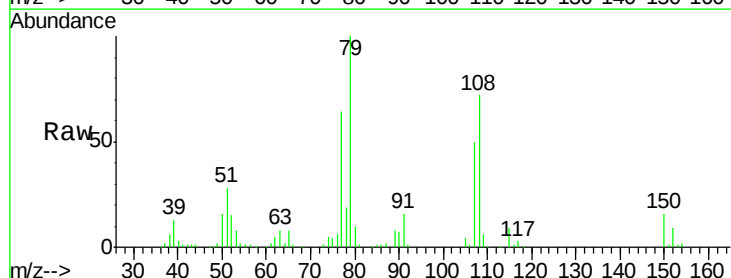
Tgt Ion: 79 Resp: 134457

Ion Ratio Lower Upper

79 100

108 71.9 58.3 87.5

77 64.4 51.3 76.9

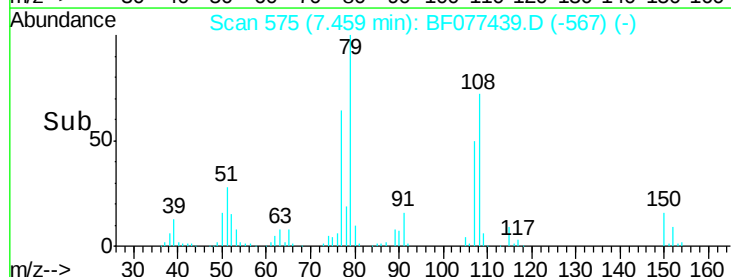


Abundance Ion 79.00 (78.70 to 79.70): BF0

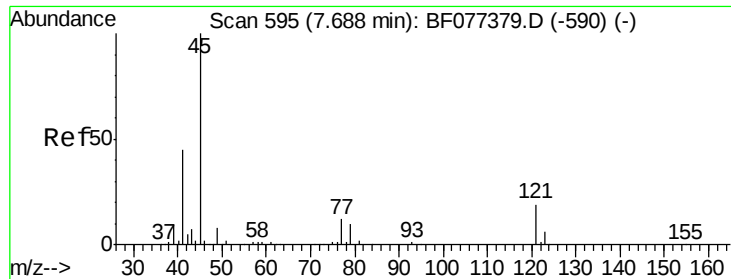
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Time-->



Time-->



#16

2,2'-oxybis(1-Chloropropane)

Concen: 28.82 ng

RT: 7.64 min Scan# 591

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

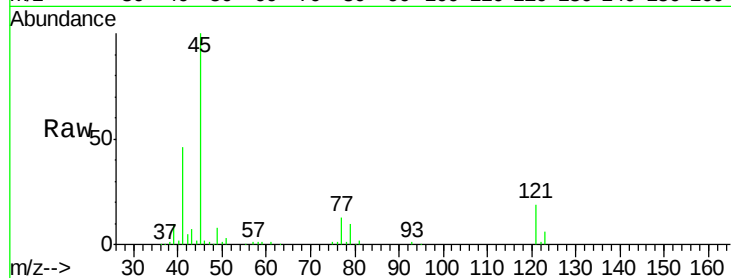
Tgt Ion: 45 Resp: 206202

Ion Ratio Lower Upper

45 100

77 13.3 0.0 34.6

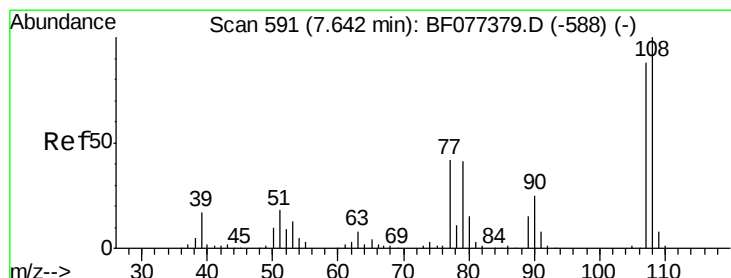
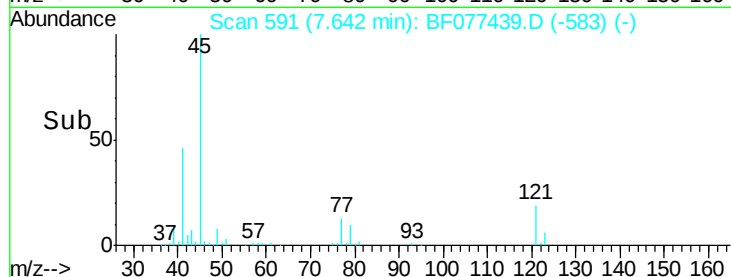
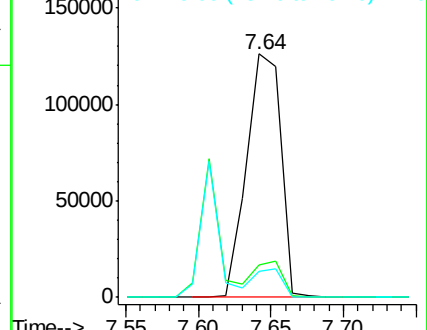
79 10.4 0.0 31.5



Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#17

2-Methylphenol

Concen: 31.80 ng

RT: 7.61 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Tgt Ion: 107 Resp: 133862

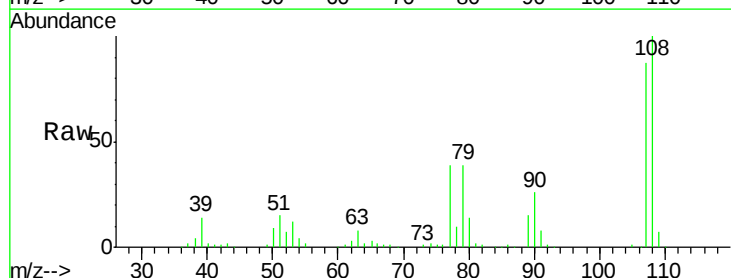
Ion Ratio Lower Upper

107 100

108 114.3 91.2 136.8

77 45.1 33.6 50.4

79 44.2 32.1 48.1

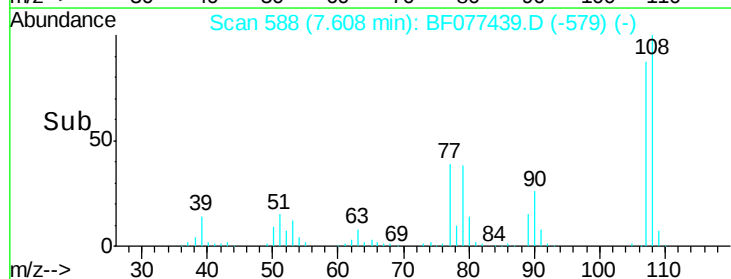
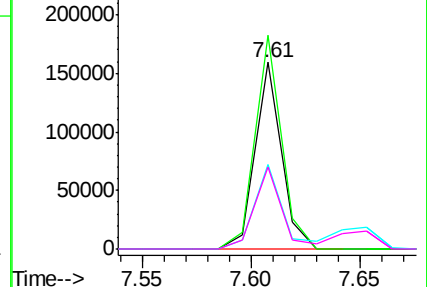


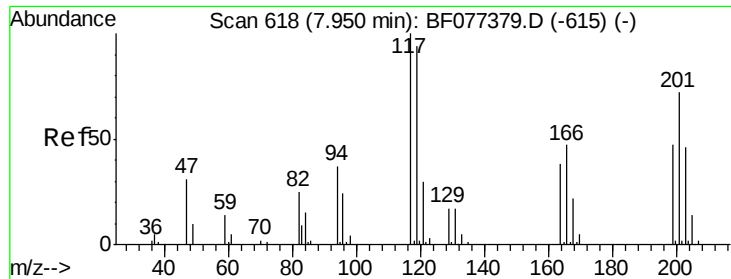
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

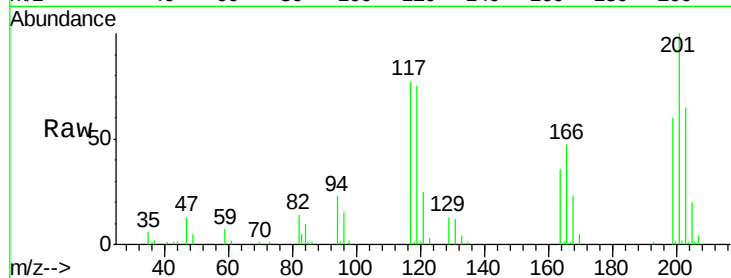




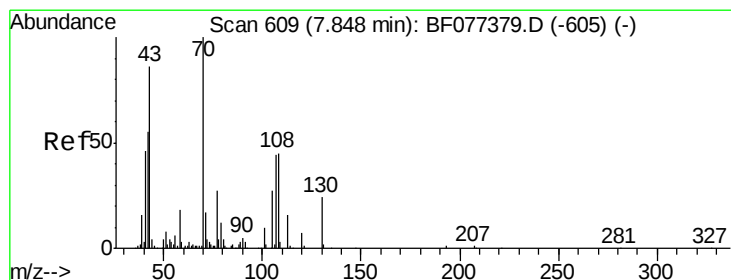
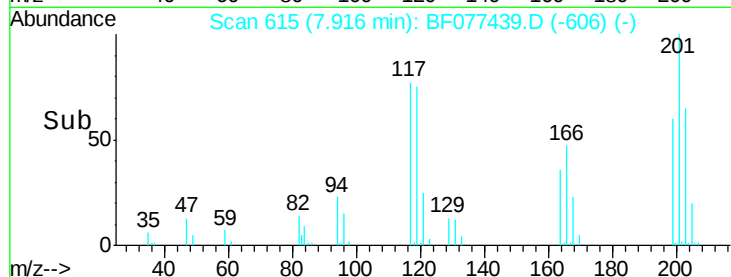
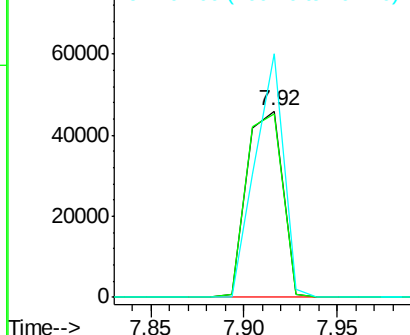
#18
Hexachloroethane
Concen: 30.75 ng
RT: 7.92 min Scan# 615
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

Tgt Ion: 117 Resp: 61284
Ion Ratio Lower Upper
117 100
119 98.3 77.8 116.8
201 130.6 90.6 136.0



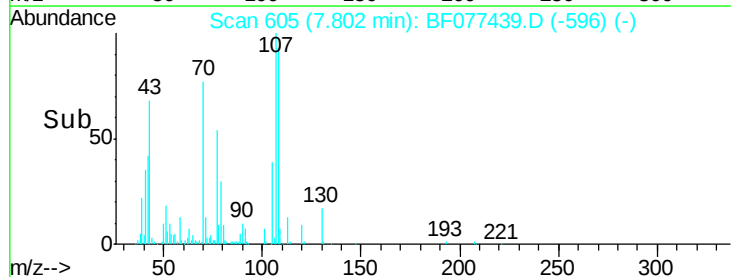
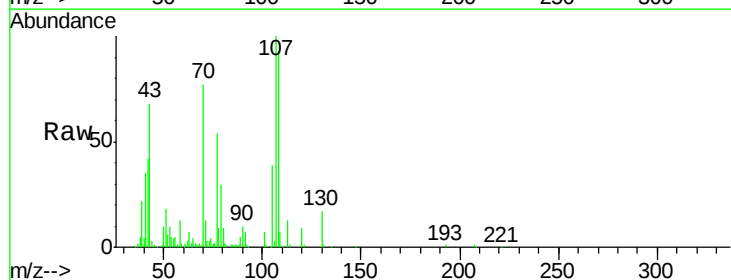
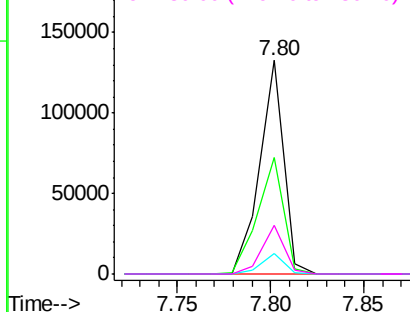
Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

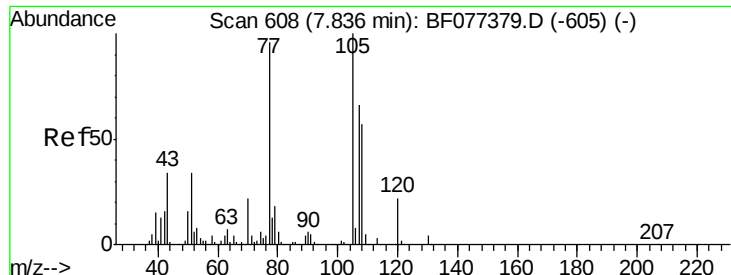


#19
n-Nitroso-di-n-propylamine
Concen: 32.12 ng
RT: 7.80 min Scan# 605
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion: 70 Resp: 119763
Ion Ratio Lower Upper
70 100
42 54.5 48.3 72.5
101 9.3 7.5 11.3
130 22.5 16.7 25.1

Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

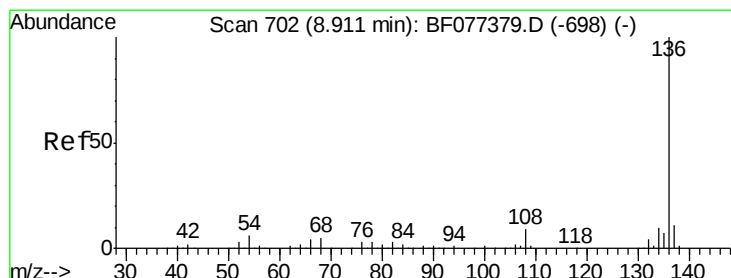
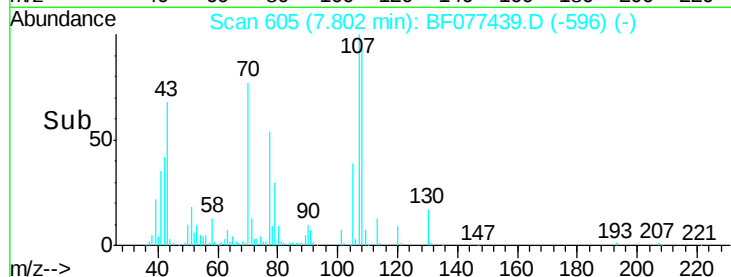
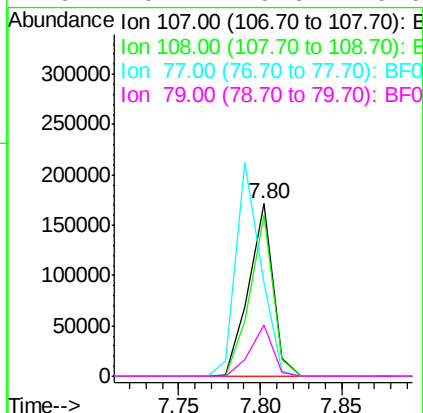
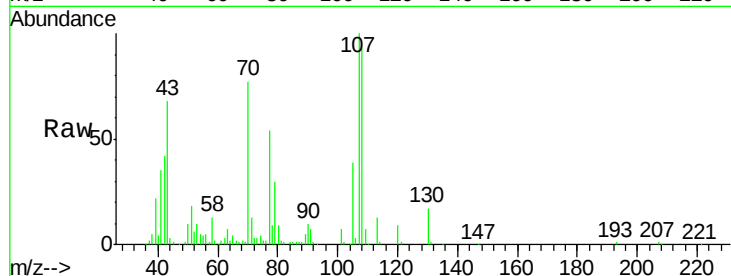




#20
3+4-Methylphenols
Concen: 32.00 ng
RT: 7.80 min Scan# 605
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

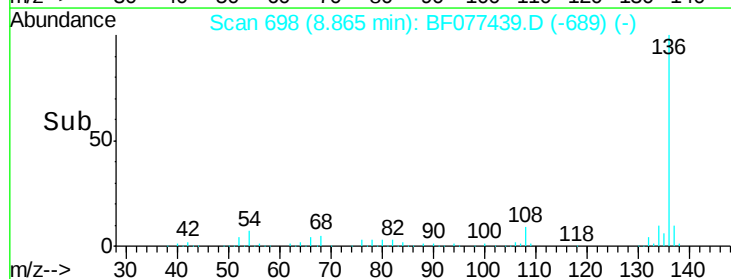
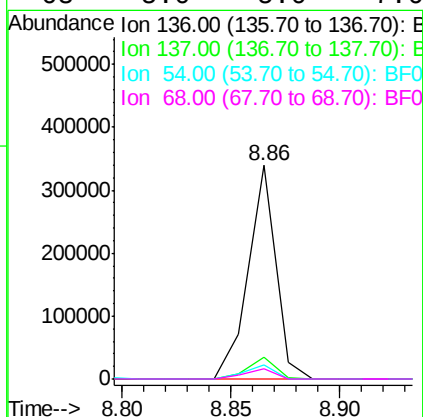
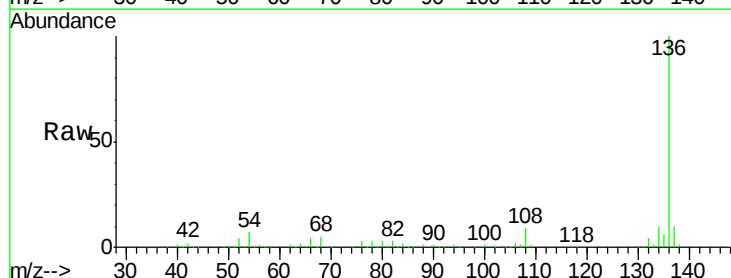
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

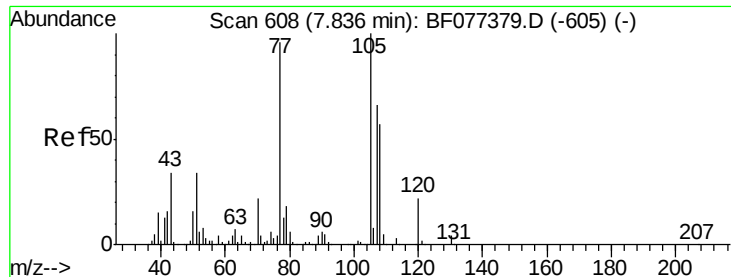
Tgt Ion:107 Resp: 177437
Ion Ratio Lower Upper
107 100
108 93.3 76.8 116.8
77 54.2 65.8 105.8#
79 29.7 9.6 49.6



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.86 min Scan# 698
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:136 Resp: 299797
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 6.6 6.2 9.4
68 5.0 5.0 7.6#





#22

Acetophenone

Concen: 31.42 ng

RT: 7.79 min Scan# 604

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

Tgt Ion: 105 Resp: 221582

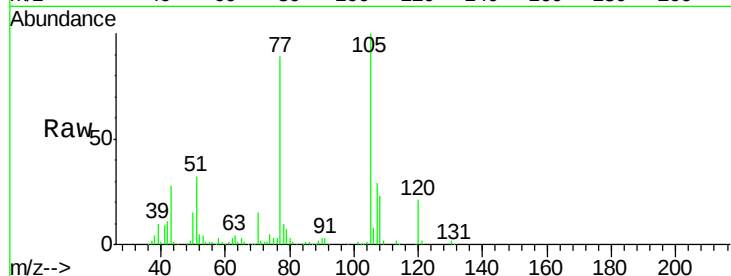
Ion Ratio Lower Upper

105 100

71 2.4 1.7 2.5

51 32.4 30.7 46.1

120 20.9 16.7 25.1

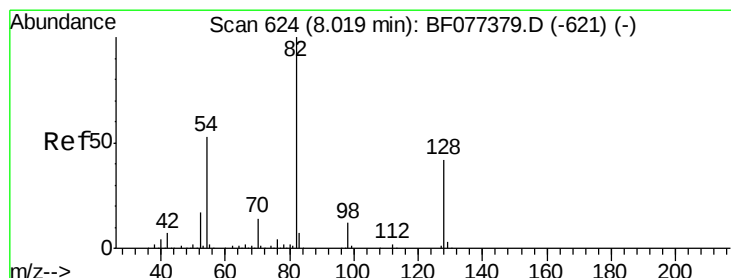
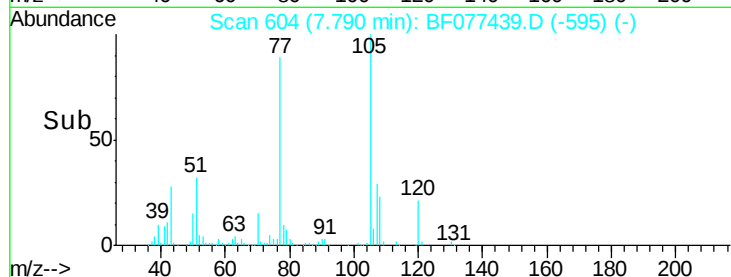
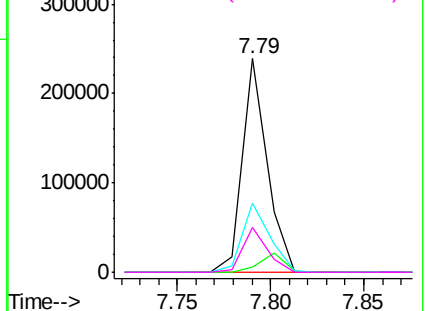


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 55.82 ng

RT: 7.97 min Scan# 620

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

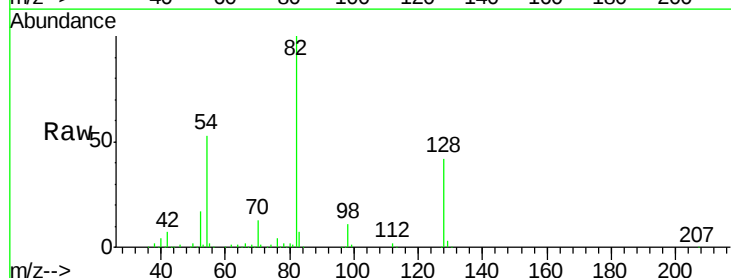
Tgt Ion: 82 Resp: 269098

Ion Ratio Lower Upper

82 100

128 41.7 43.8 65.8#

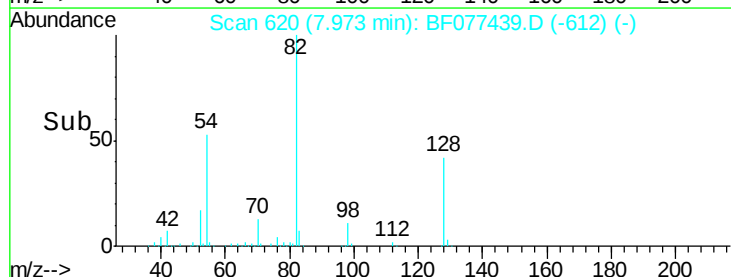
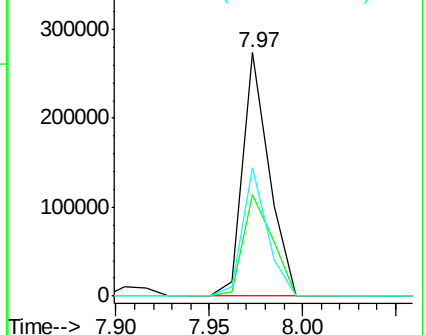
54 52.7 36.7 55.1

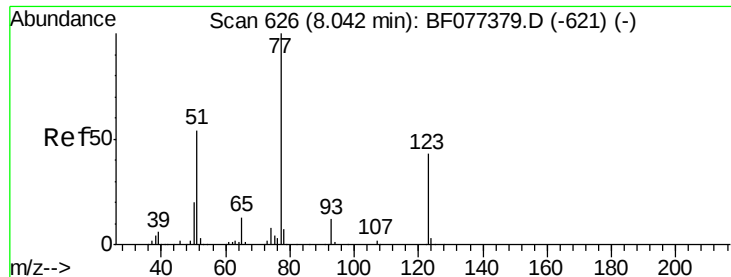


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 32.74 ng

RT: 8.00 min Scan# 622

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

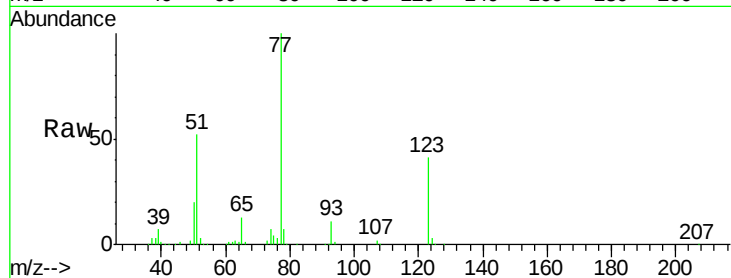
Tgt Ion: 77 Resp: 166048

Ion Ratio Lower Upper

77 100

123 40.7 45.9 68.9#

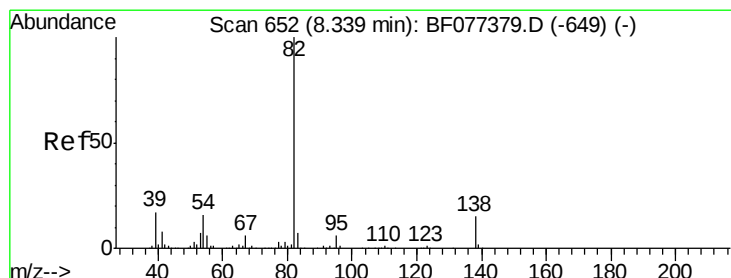
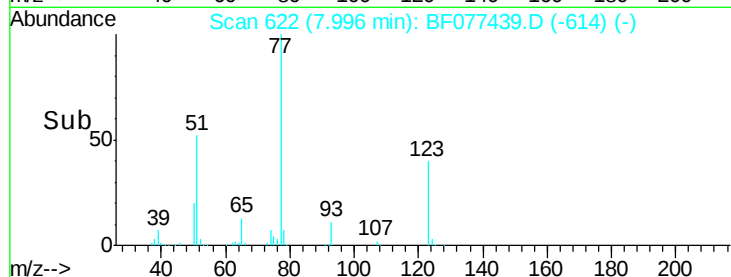
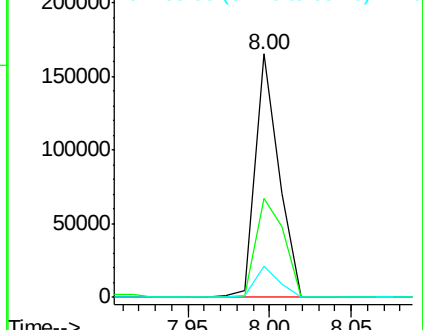
65 12.6 9.5 14.3



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 123.00 (122.70 to 123.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#25

Isophorone

Concen: 31.21 ng

RT: 8.30 min Scan# 649

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

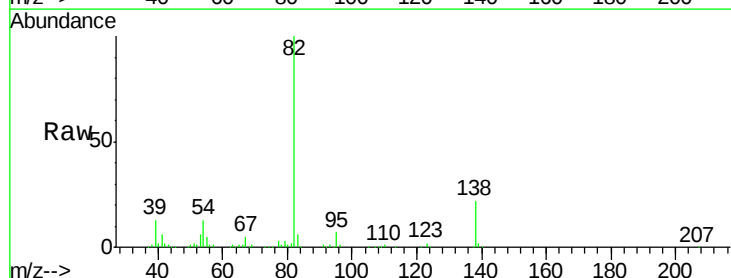
Tgt Ion: 82 Resp: 298520

Ion Ratio Lower Upper

82 100

95 6.8 5.4 8.2

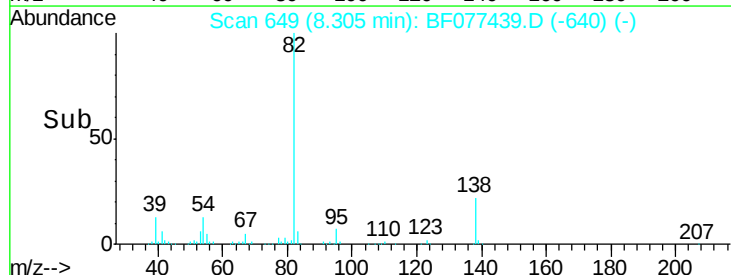
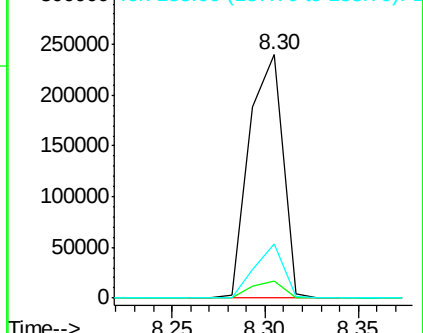
138 22.1 16.3 24.5

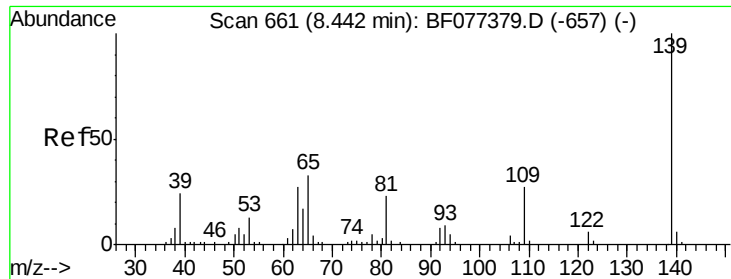


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

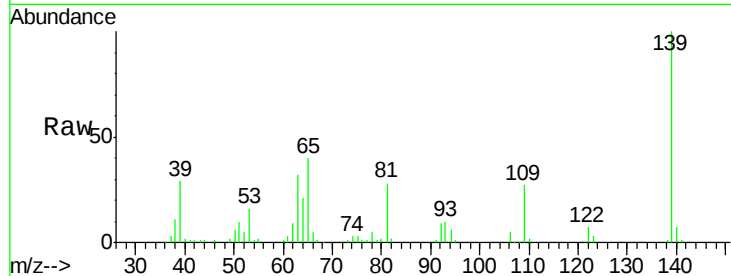




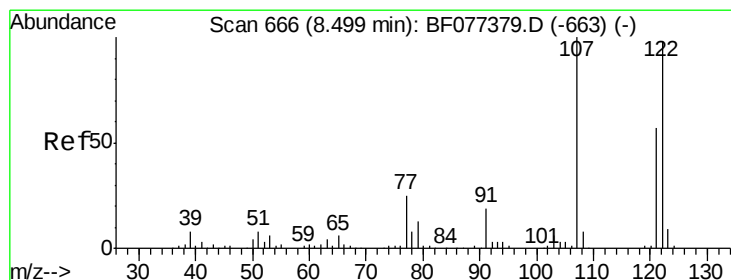
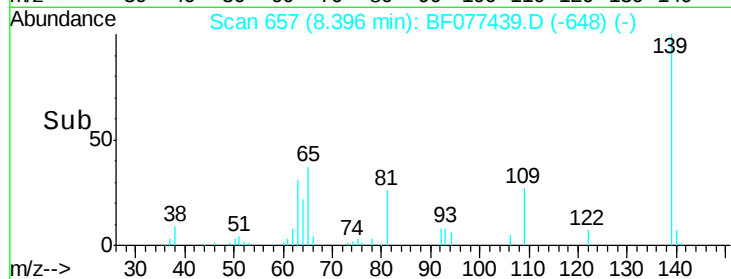
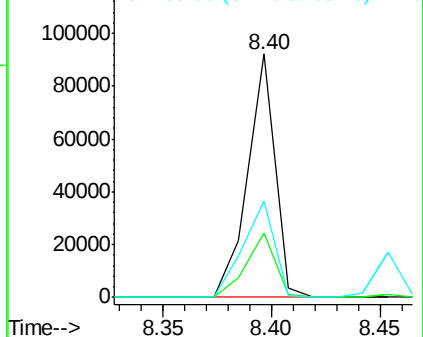
#26
 2-Nitrophenol
 Concen: 38.56 ng
 RT: 8.40 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

Tgt Ion:139 Resp: 80169
 Ion Ratio Lower Upper
 139 100
 109 26.6 22.6 34.0
 65 39.6 36.4 54.6

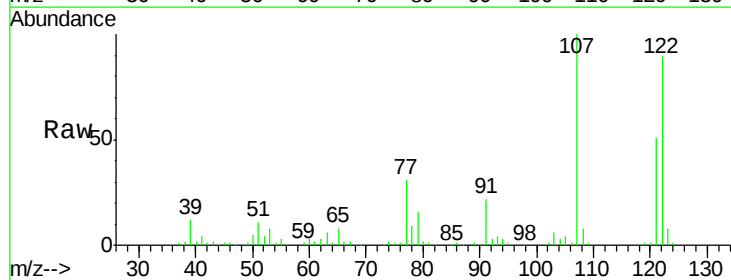


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

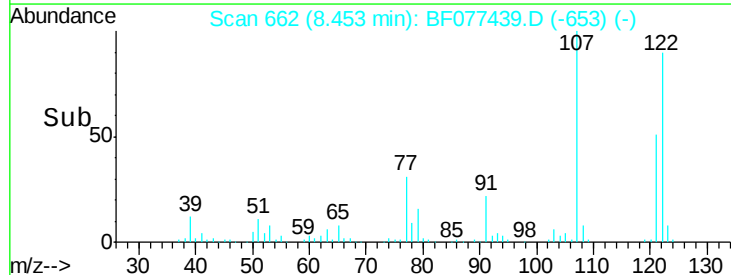
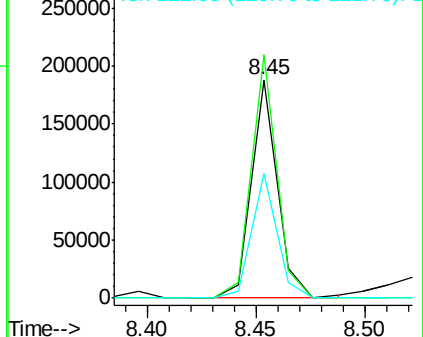


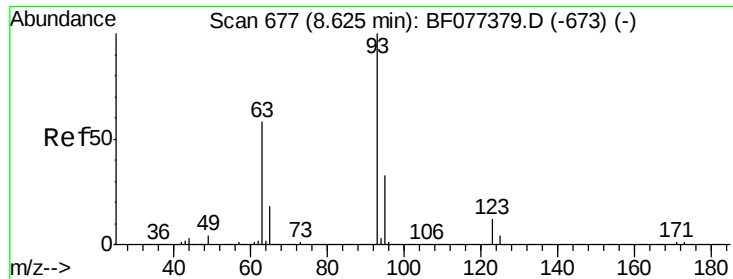
#27
 2,4-Dimethylphenol
 Concen: 33.64 ng
 RT: 8.45 min Scan# 662
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:122 Resp: 156455
 Ion Ratio Lower Upper
 122 100
 107 111.5 86.6 130.0
 121 56.8 47.4 71.0



Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E

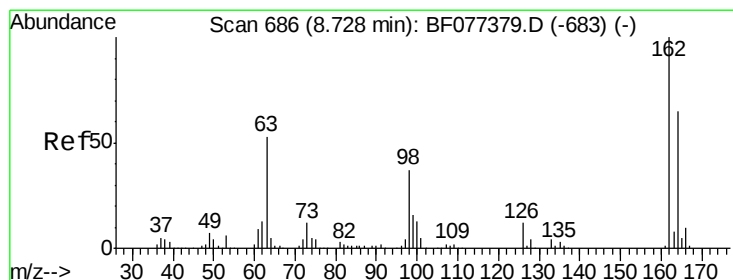
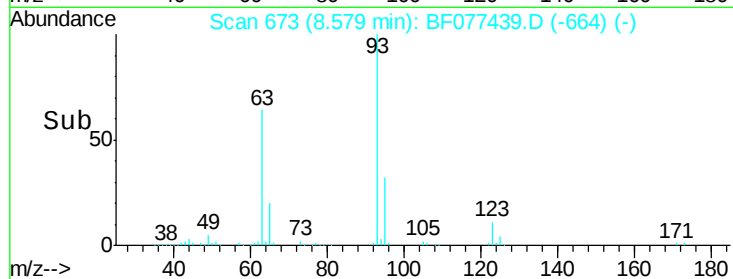
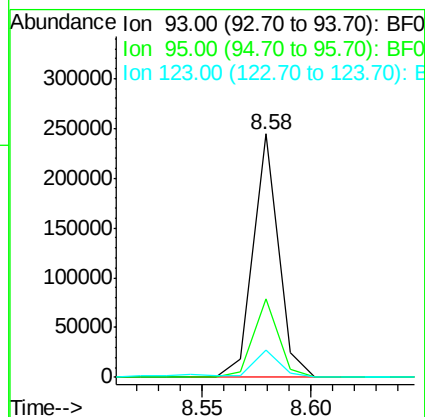
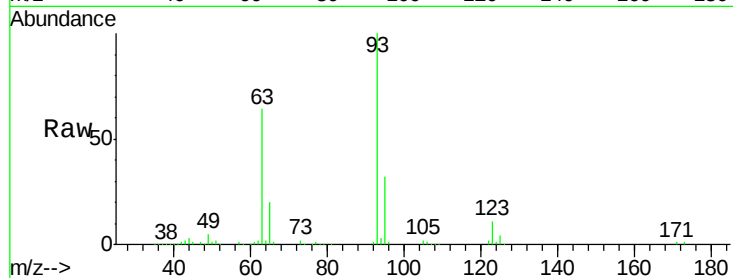




#28
 bis(2-Chloroethoxy)methane
 Concen: 32.60 ng
 RT: 8.58 min Scan# 673
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

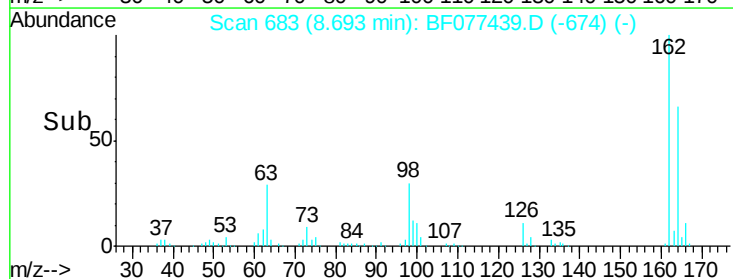
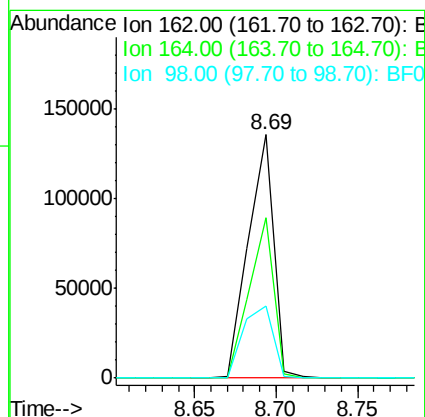
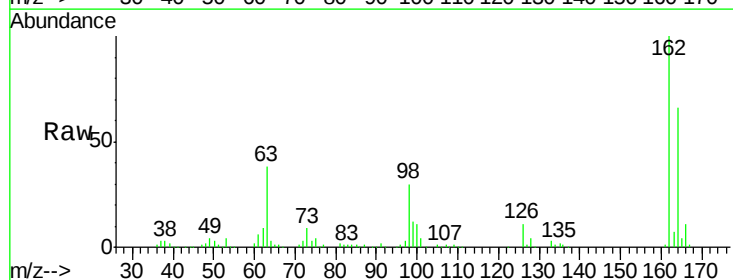
Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

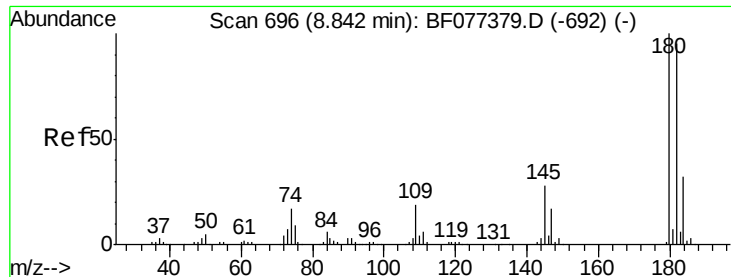
Tgt Ion: 93 Resp: 197006
 Ion Ratio Lower Upper
 93 100
 95 32.2 26.4 39.6
 123 11.3 8.7 13.1



#29
 2,4-Dichlorophenol
 Concen: 33.42 ng
 RT: 8.69 min Scan# 683
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion: 162 Resp: 145895
 Ion Ratio Lower Upper
 162 100
 164 65.7 46.4 86.4
 98 29.6 6.9 46.9

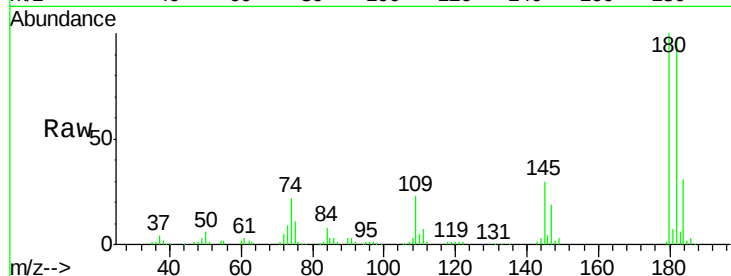




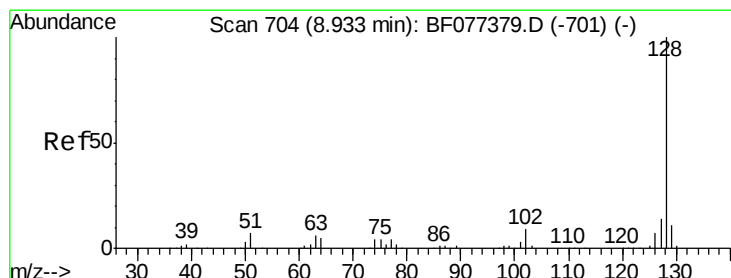
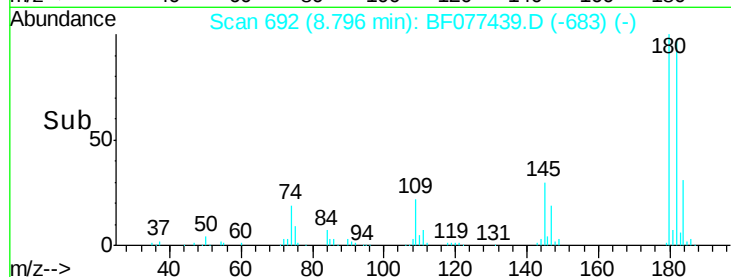
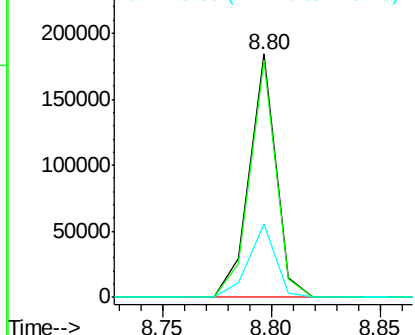
#30
 1,2,4-Trichlorobenzene
 Concen: 32.54 ng
 RT: 8.80 min Scan# 692
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion:180 Resp: 156212
 Ion Ratio Lower Upper
 180 100
 182 97.4 76.2 114.4
 145 30.1 24.5 36.7

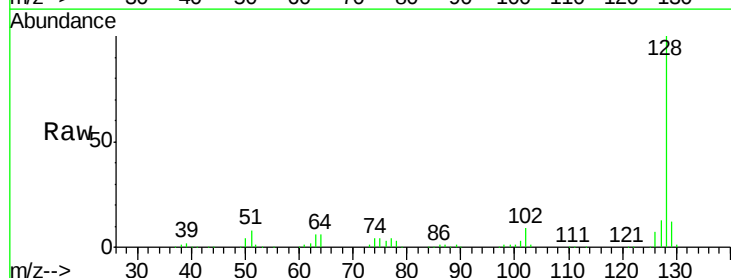


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

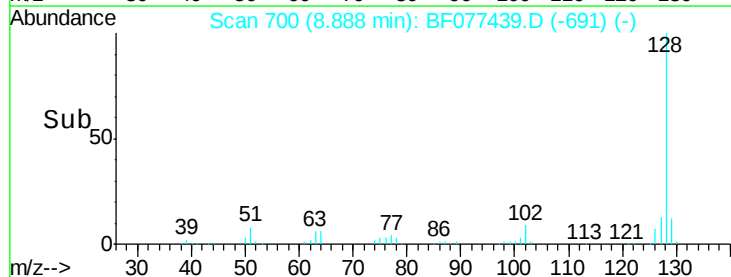
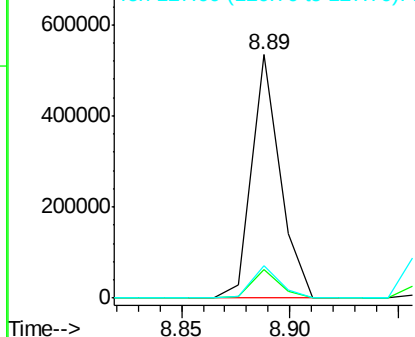


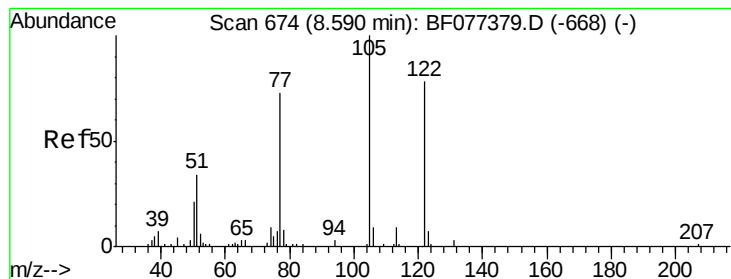
#31
 Naphthalene
 Concen: 32.25 ng
 RT: 8.89 min Scan# 700
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:128 Resp: 483472
 Ion Ratio Lower Upper
 128 100
 129 11.5 9.4 14.0
 127 13.2 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 37.48 ng

RT: 8.54 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

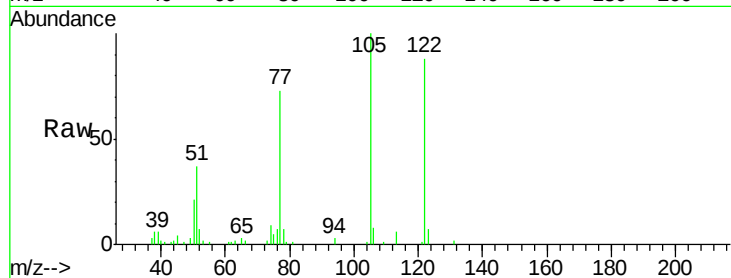
Tgt Ion:122 Resp: 84702

Ion Ratio Lower Upper

122 100

105 113.6 100.3 140.3

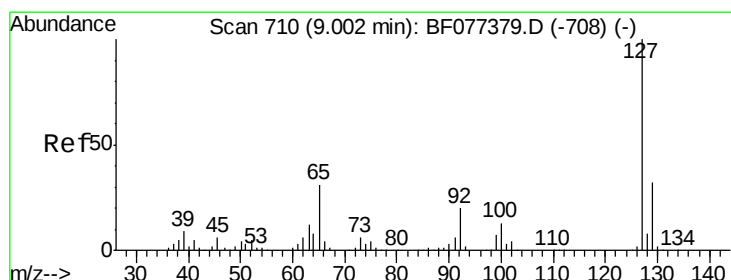
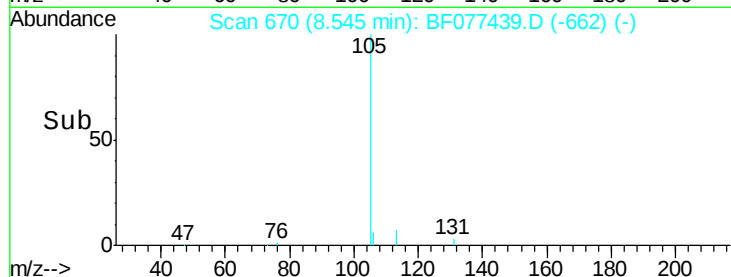
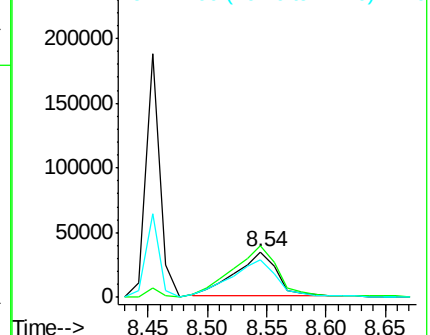
77 83.2 68.7 108.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#33

4-Chloroaniline

Concen: 15.89 ng

RT: 8.96 min Scan# 706

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Tgt Ion:127 Resp: 105937

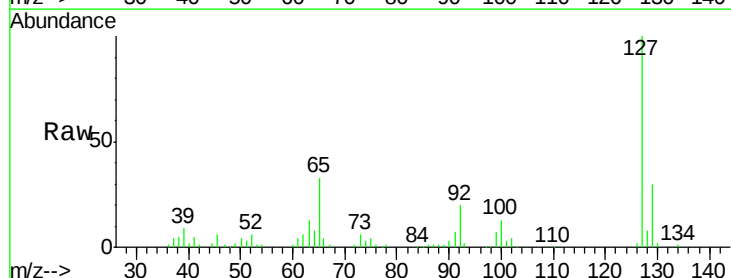
Ion Ratio Lower Upper

127 100

129 30.3 26.9 40.3

65 33.1 16.7 25.1#

92 19.9 12.5 18.7#

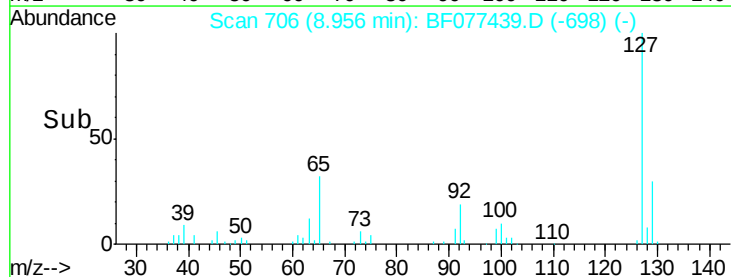
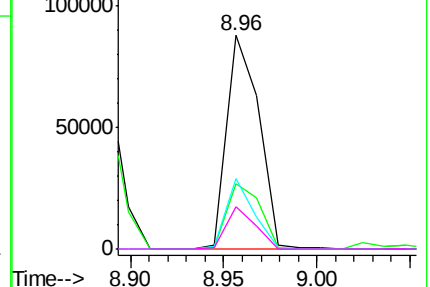


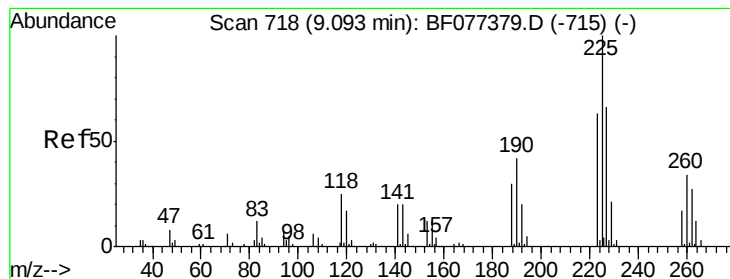
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0





#34

Hexachlorobutadiene

Concen: 31.40 ng

RT: 9.05 min Scan# 714

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

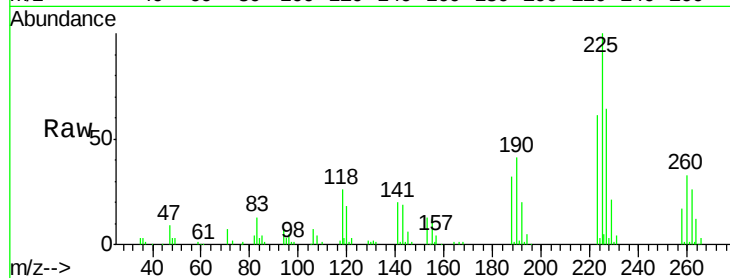
Tgt Ion:225 Resp: 86044

Ion Ratio Lower Upper

225 100

223 61.5 49.5 74.3

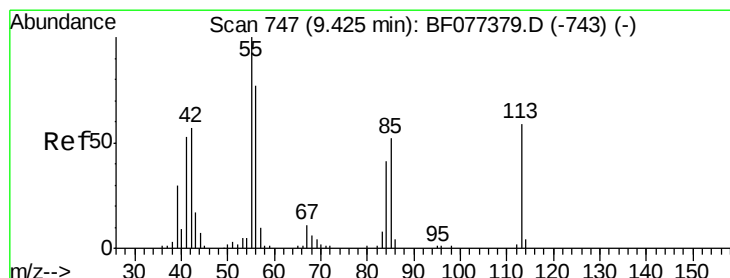
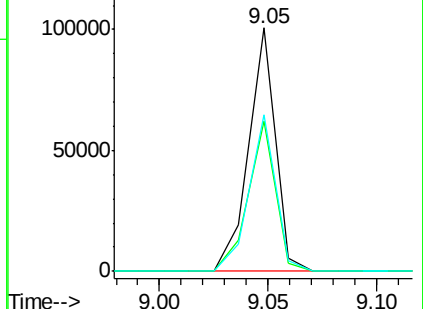
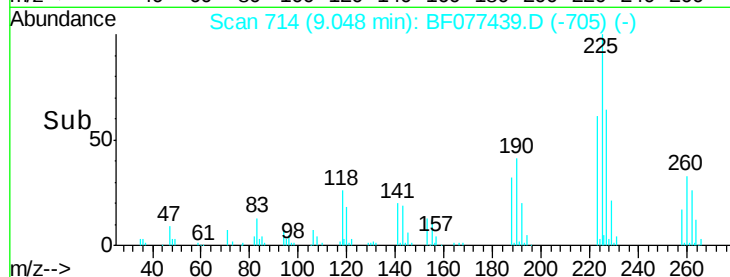
227 64.1 50.5 75.7



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#35

Caprolactam

Concen: 33.17 ng

RT: 9.38 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

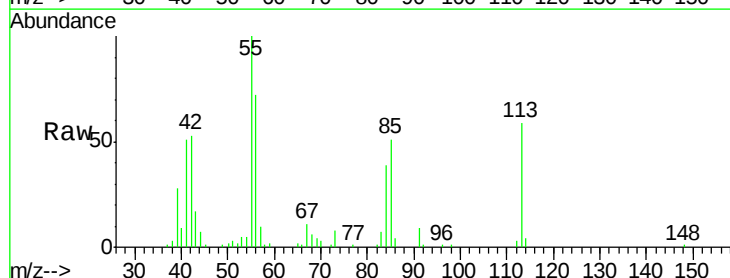
Tgt Ion:113 Resp: 44216

Ion Ratio Lower Upper

113 100

55 168.9 154.6 194.6

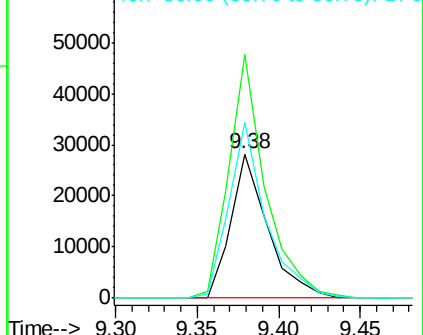
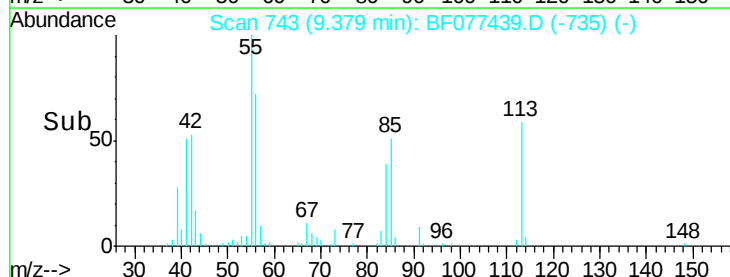
56 121.5 114.0 154.0

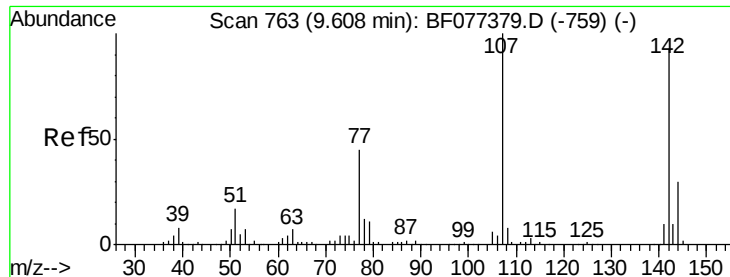


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

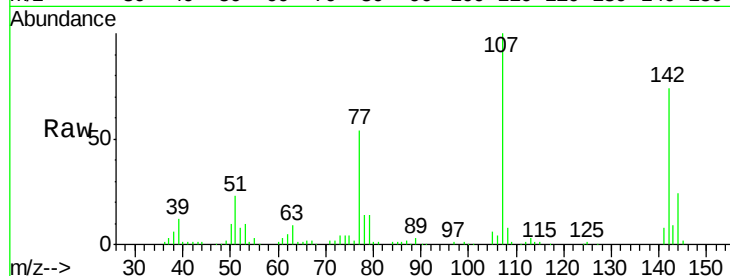




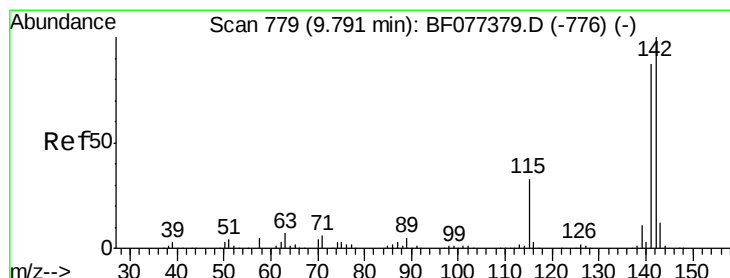
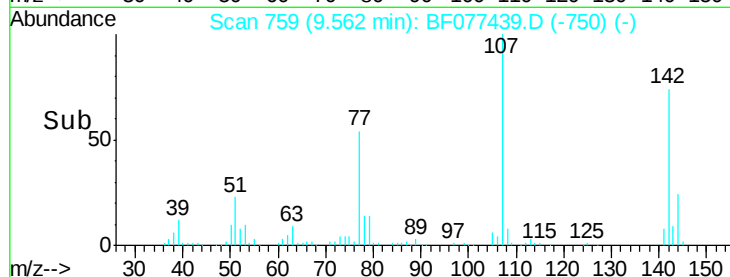
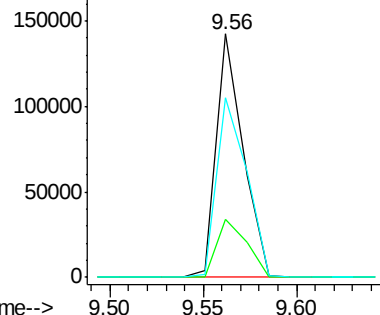
#36
 4-Chloro-3-methylphenol
 Concen: 32.26 ng
 RT: 9.56 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion:107 Resp: 141606
 Ion Ratio Lower Upper
 107 100
 144 23.7 21.1 31.7
 142 73.9 65.3 97.9

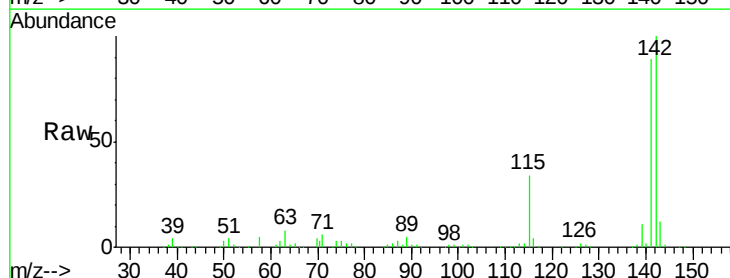


Abundance Ion 107.00 (106.70 to 107.70): E
 Ion 144.00 (143.70 to 144.70): E
 Ion 142.00 (141.70 to 142.70): E

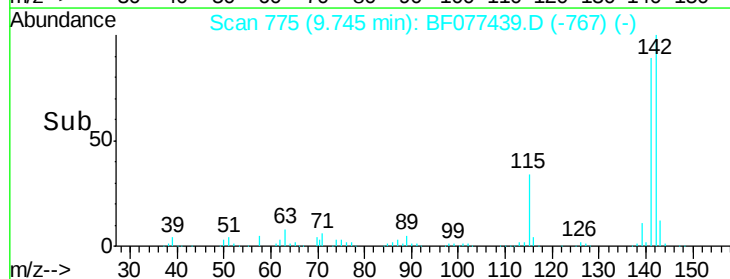
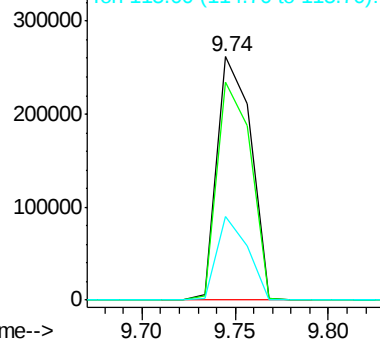


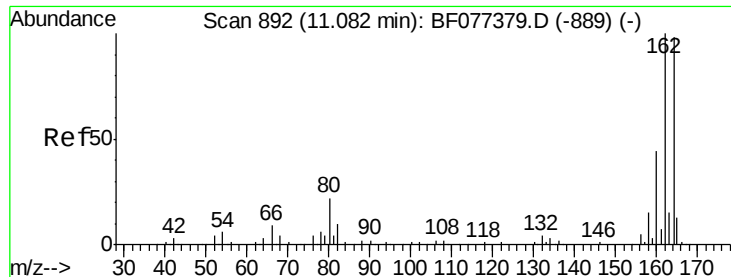
#37
 2-Methylnaphthalene
 Concen: 30.94 ng
 RT: 9.74 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:142 Resp: 329391
 Ion Ratio Lower Upper
 142 100
 141 89.4 70.7 106.1
 115 34.4 24.2 36.4



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

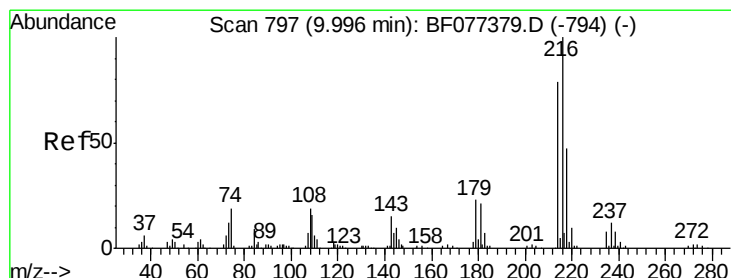
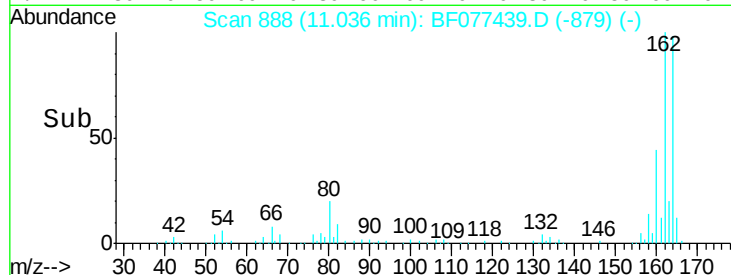
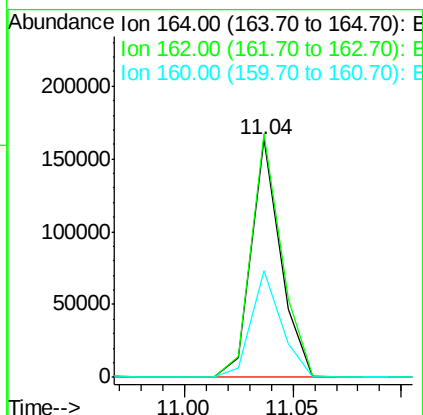
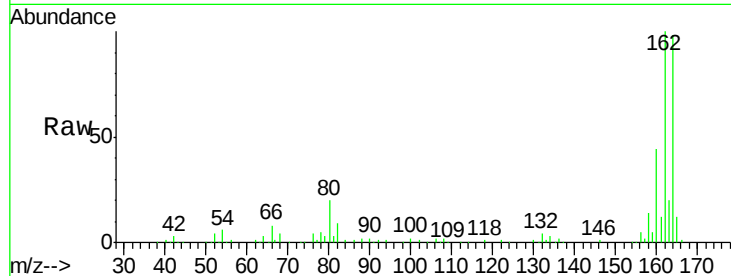




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.04 min Scan# 888
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

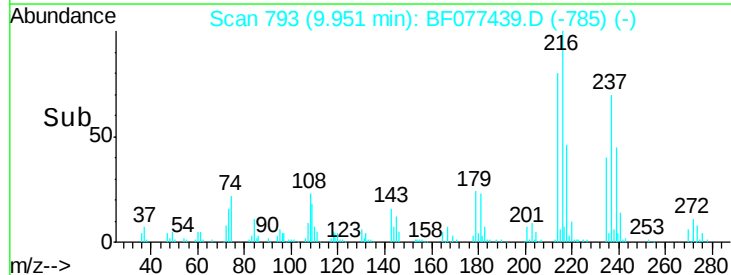
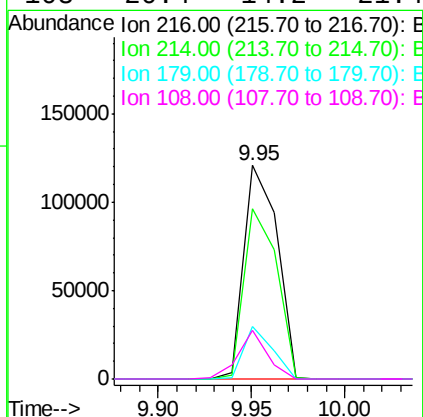
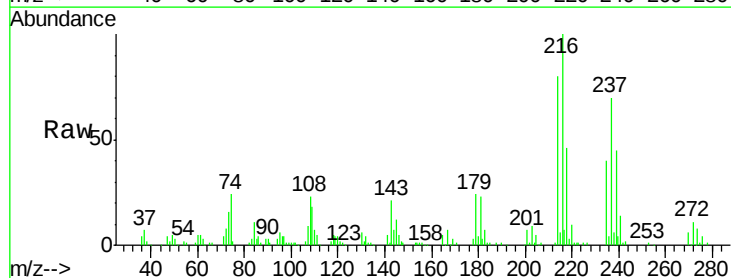
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

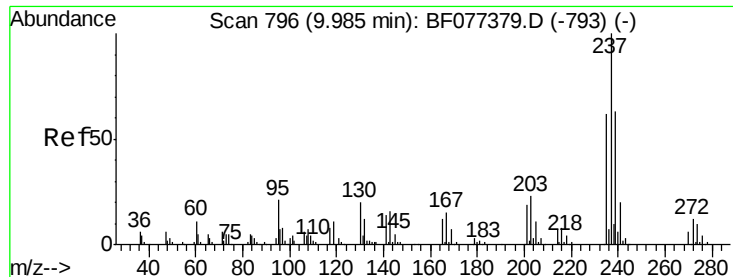
Tgt Ion:164 Resp: 153790
Ion Ratio Lower Upper
164 100
162 102.2 83.2 124.8
160 44.6 34.6 52.0



#39
1,2,4,5-Tetrachlorobenzene
Concen: 34.08 ng
RT: 9.95 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:216 Resp: 150384
Ion Ratio Lower Upper
216 100
214 78.4 63.4 95.0
179 21.3 16.6 25.0
108 20.4 14.2 21.4

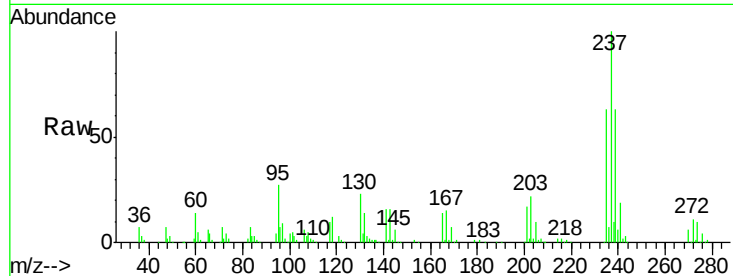




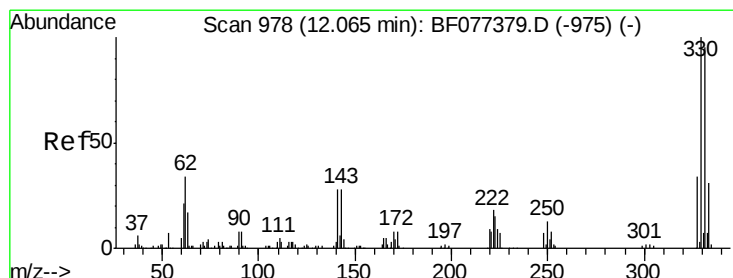
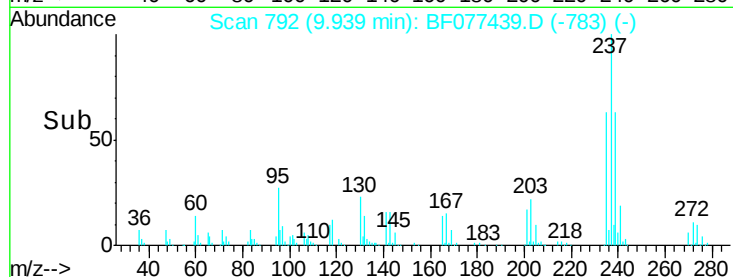
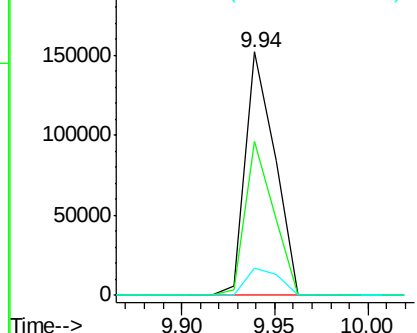
#40
Hexachlorocyclopentadiene
Concen: 70.27 ng
RT: 9.94 min Scan# 792
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

Tgt Ion:237 Resp: 166260
Ion Ratio Lower Upper
237 100
235 63.4 41.0 81.0
272 11.5 0.0 34.3

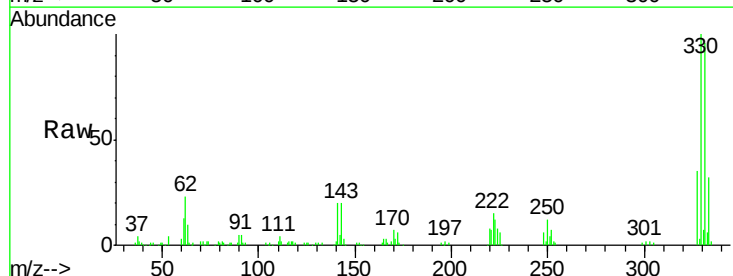


Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E

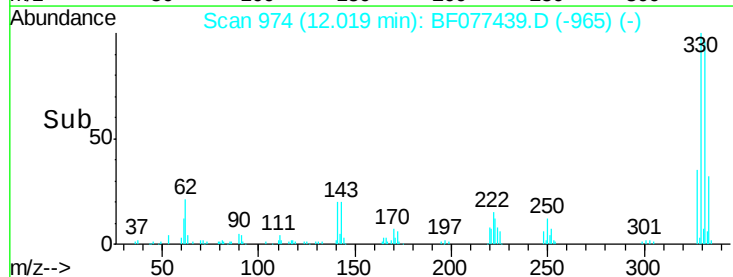
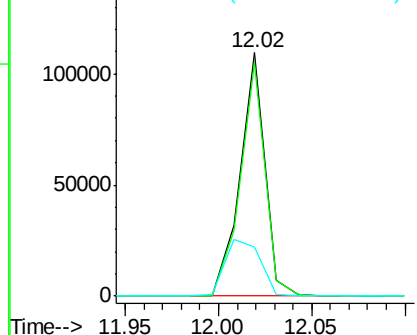


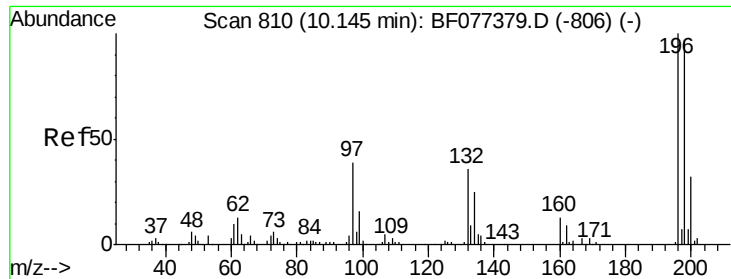
#41
2,4,6-Tribromophenol
Concen: 69.32 ng
RT: 12.02 min Scan# 974
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:330 Resp: 102651
Ion Ratio Lower Upper
330 100
332 95.2 77.4 116.2
141 33.0 28.8 43.2



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

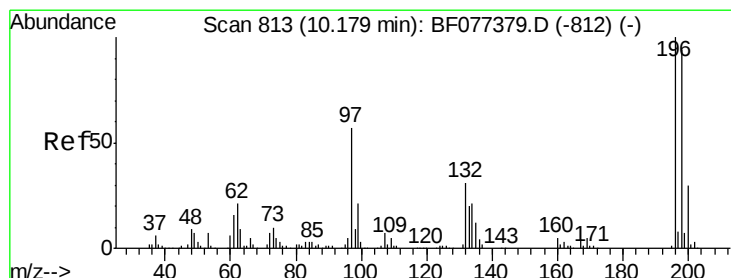
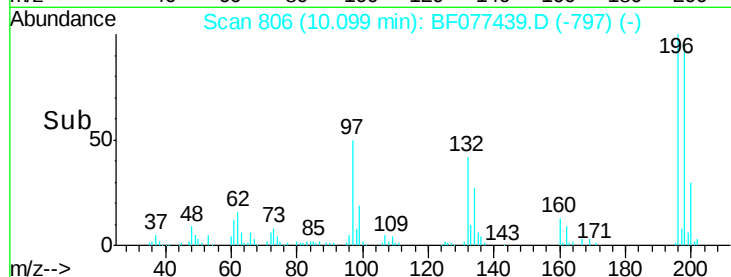
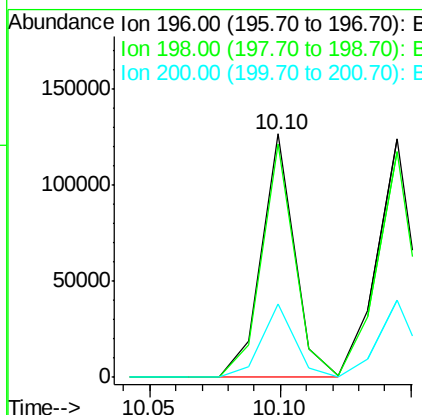
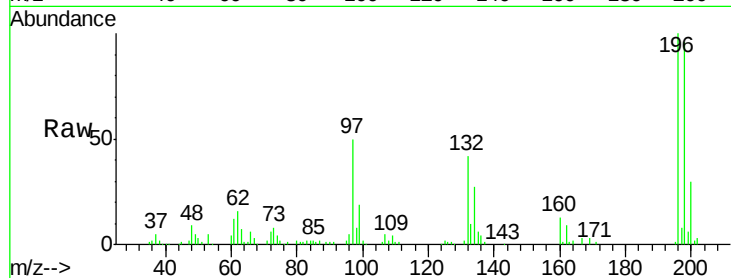




#42
 2,4,6-Trichlorophenol
 Concen: 37.81 ng
 RT: 10.10 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

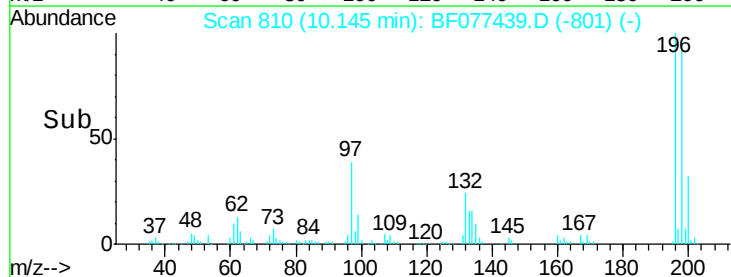
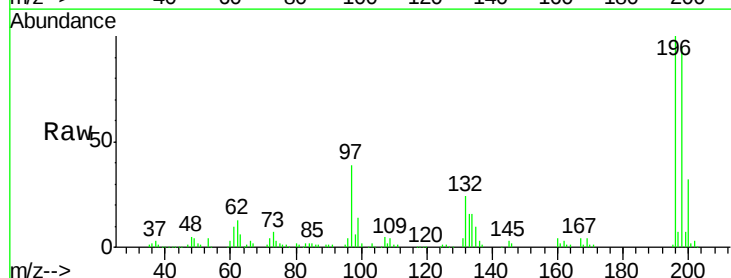
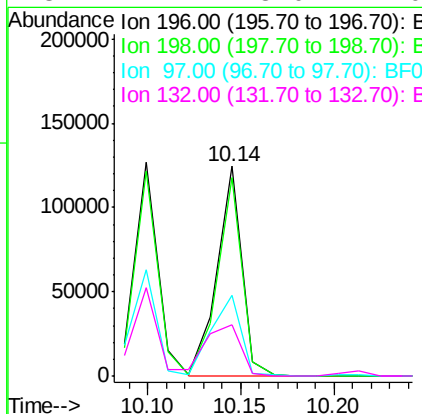
Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

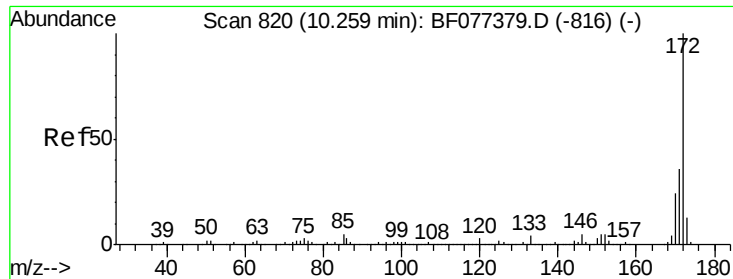
Tgt Ion:196 Resp: 110478
 Ion Ratio Lower Upper
 196 100
 198 95.9 75.8 113.8
 200 29.9 24.2 36.4



#43
 2,4,5-Trichlorophenol
 Concen: 37.11 ng
 RT: 10.14 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:196 Resp: 115974
 Ion Ratio Lower Upper
 196 100
 198 94.7 77.2 115.8
 97 38.6 27.7 41.5
 132 24.2 18.0 27.0

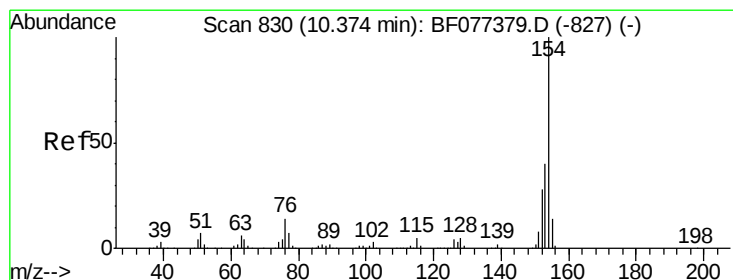
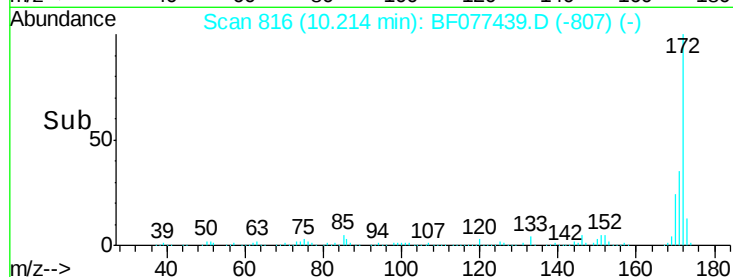
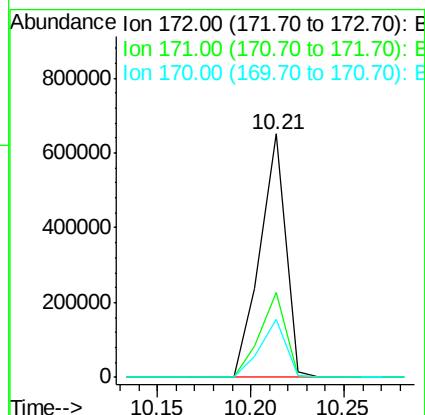
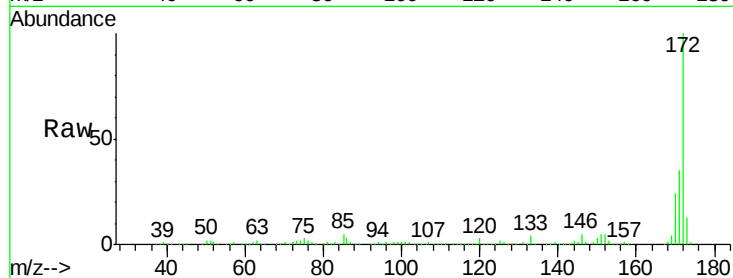




#44
2-Fluorobiphenyl
Concen: 62.92 ng
RT: 10.21 min Scan# 816
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

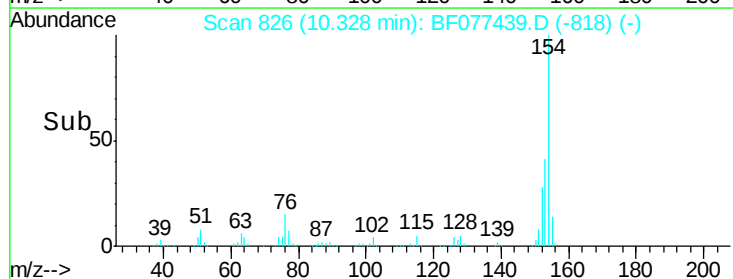
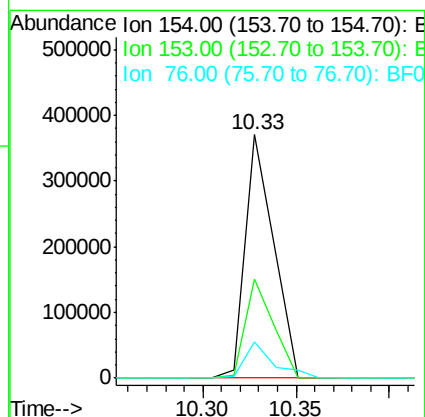
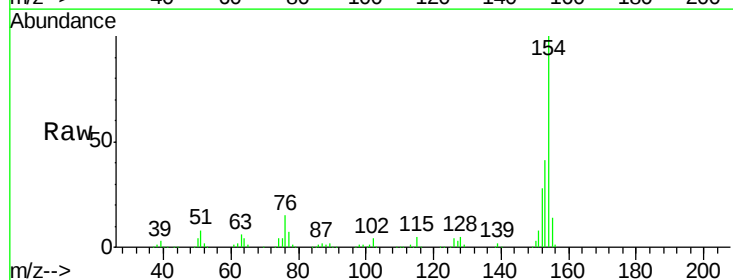
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

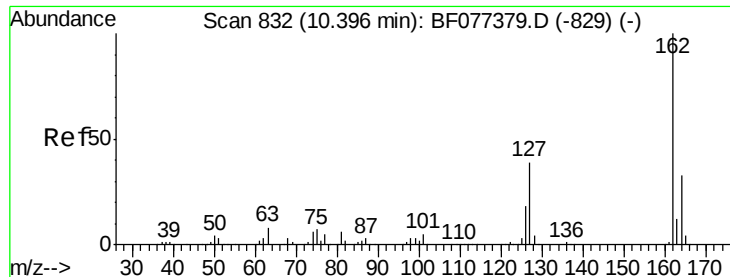
Tgt Ion:172 Resp: 620543
Ion Ratio Lower Upper
172 100
171 35.0 28.9 43.3
170 23.9 19.4 29.2



#45
1,1'-Biphenyl
Concen: 33.45 ng
RT: 10.33 min Scan# 826
Delta R.T. -0.01 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:154 Resp: 389743
Ion Ratio Lower Upper
154 100
153 40.8 20.2 60.2
76 14.8 0.0 29.4

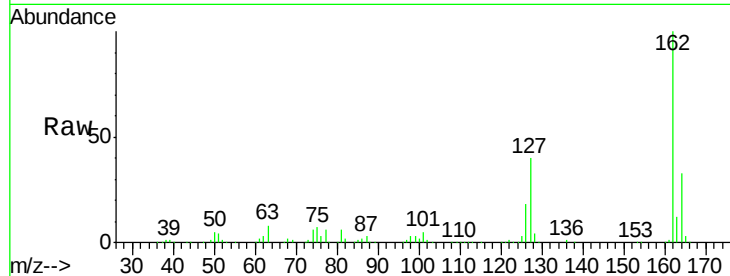




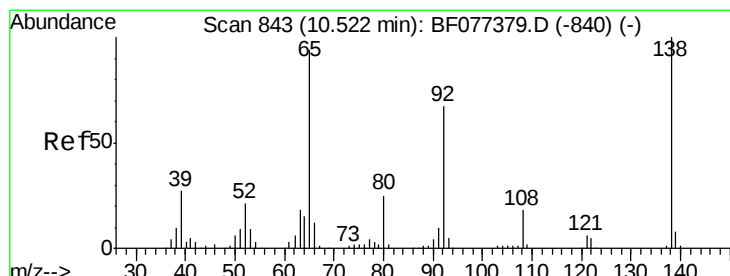
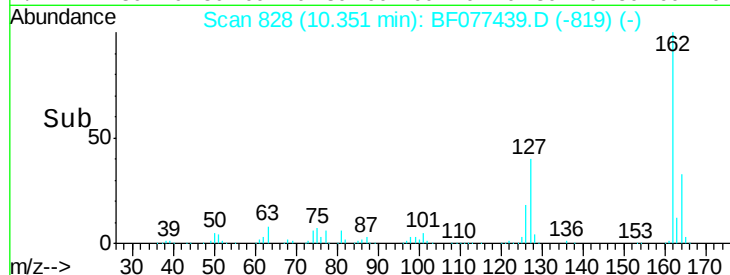
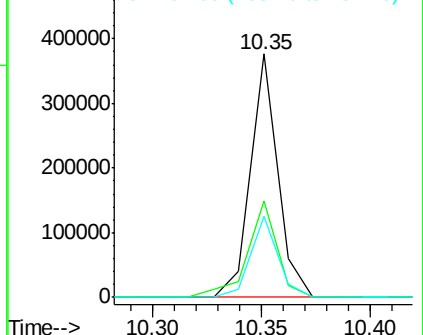
#46
 2-Chloronaphthalene
 Concen: 35.81 ng
 RT: 10.35 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion: 162 Resp: 327260
 Ion Ratio Lower Upper
 162 100
 127 39.5 33.3 49.9
 164 33.1 26.2 39.4

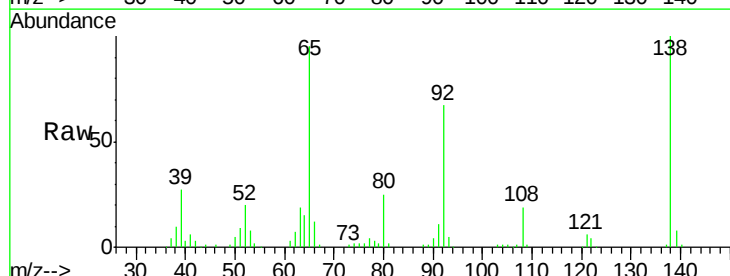


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

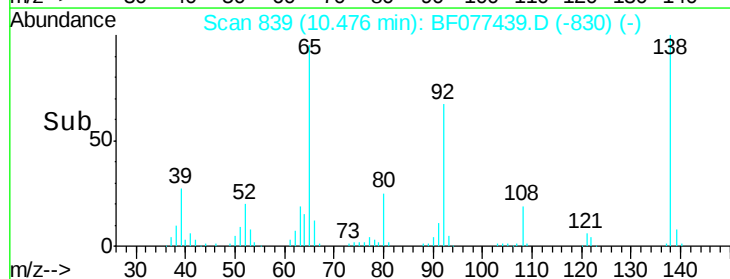
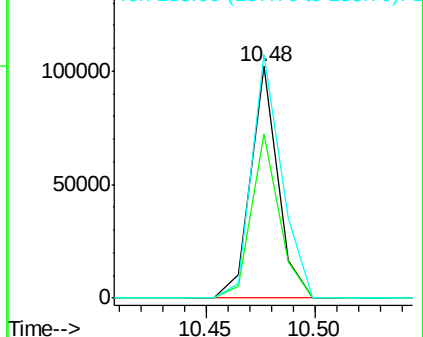


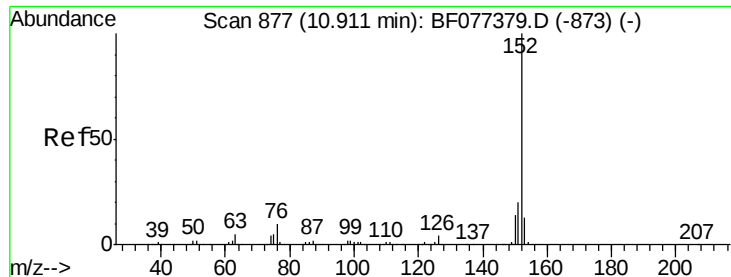
#47
 2-Nitroaniline
 Concen: 39.31 ng
 RT: 10.48 min Scan# 839
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion: 65 Resp: 88418
 Ion Ratio Lower Upper
 65 100
 92 70.7 52.4 78.6
 138 104.9 73.4 110.0



Abundance Ion 65.00 (64.70 to 65.70): BF0
 Ion 92.00 (91.70 to 92.70): BF0
 Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 36.59 ng

RT: 10.87 min Scan# 873

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

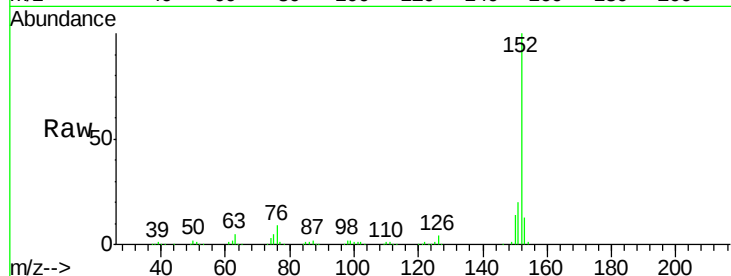
Tgt Ion:152 Resp: 529371

Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

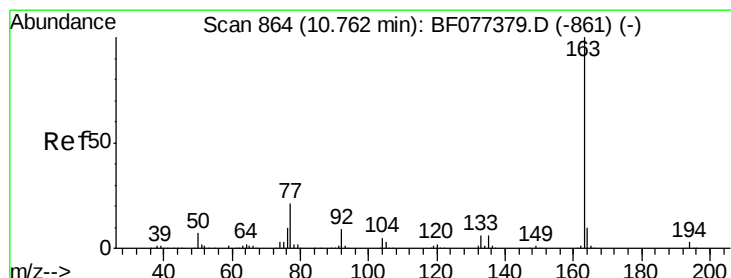
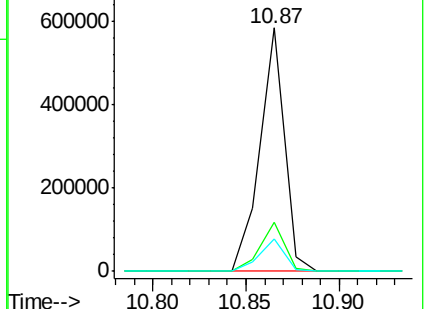
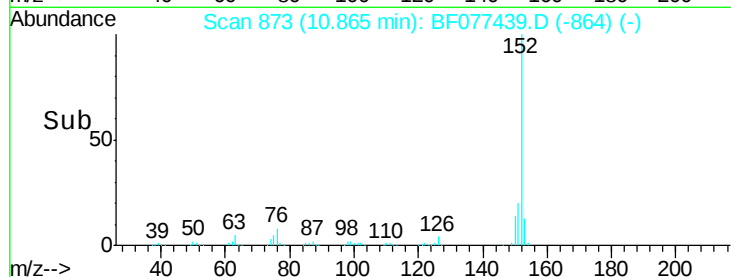
153 13.2 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 34.97 ng

RT: 10.72 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

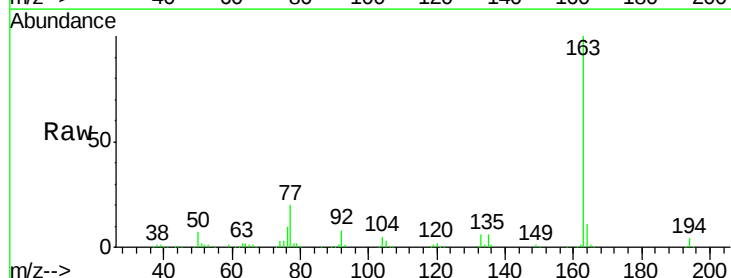
Tgt Ion:163 Resp: 378038

Ion Ratio Lower Upper

163 100

194 3.6 2.6 4.0

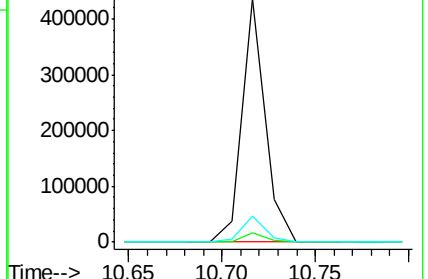
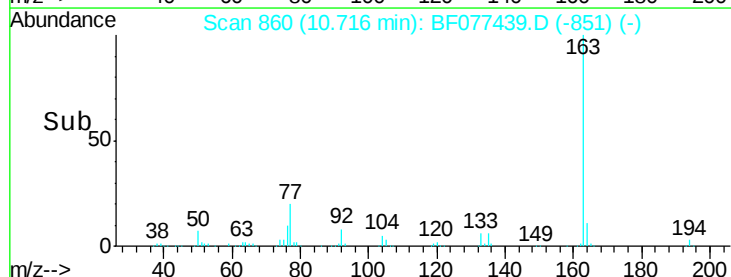
164 10.5 8.6 13.0

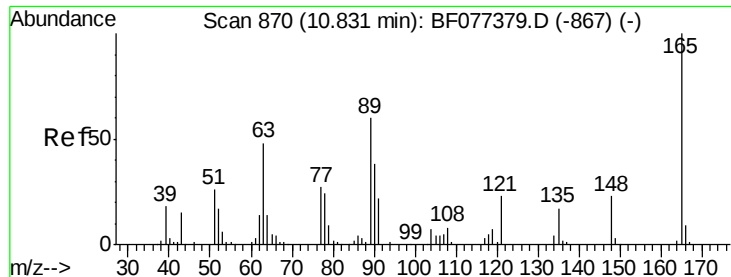


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

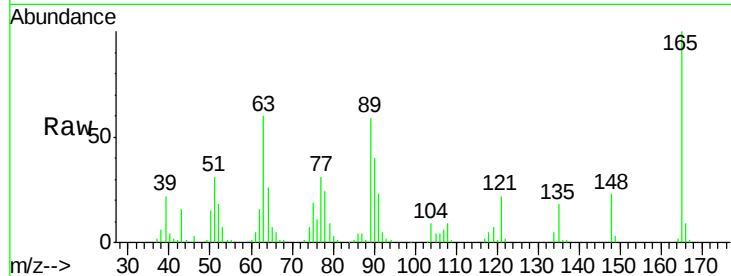




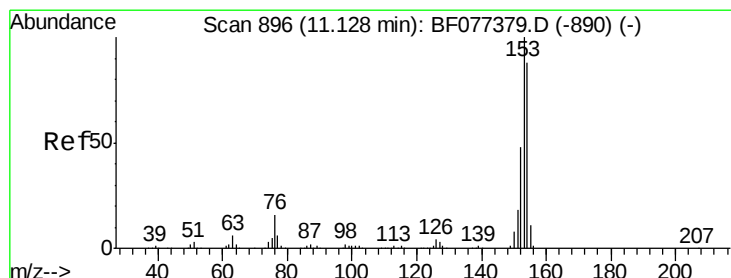
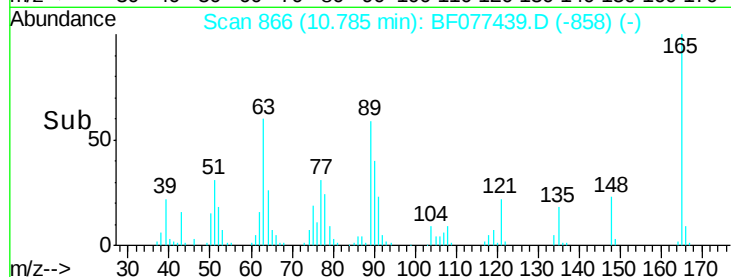
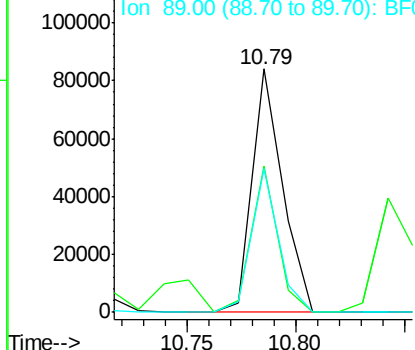
#50
2,6-Dinitrotoluene
Concen: 37.65 ng
RT: 10.79 min Scan# 866
Delta R.T. -0.01 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

Tgt Ion:165 Resp: 81618
Ion Ratio Lower Upper
165 100
63 60.3 25.2 37.8#
89 58.9 30.5 45.7#

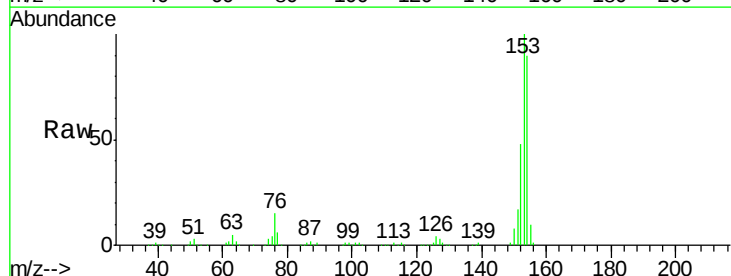


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

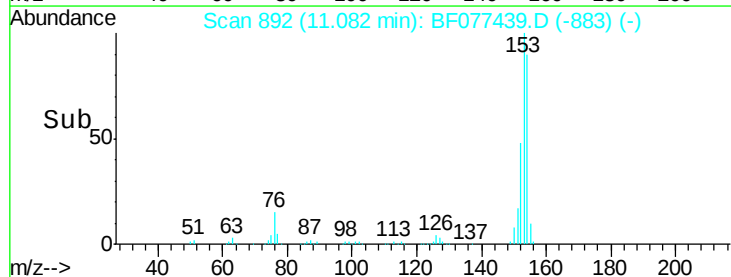
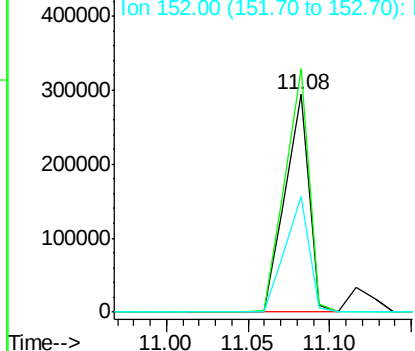


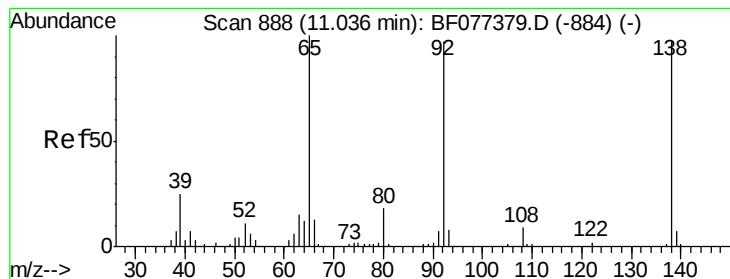
#51
Acenaphthene
Concen: 35.14 ng
RT: 11.08 min Scan# 892
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:154 Resp: 303360
Ion Ratio Lower Upper
154 100
153 111.7 90.5 135.7
152 53.3 43.5 65.3



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





#52

3-Nitroaniline

Concen: 26.16 ng

RT: 10.99 min Scan# 884

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

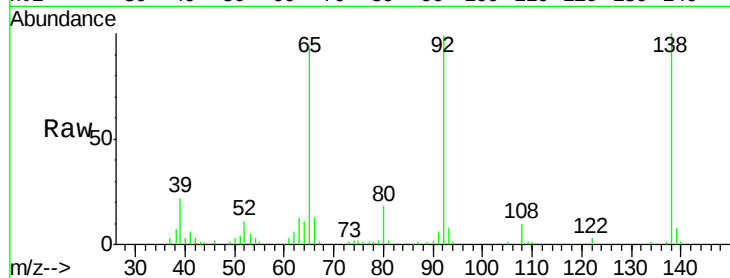
Tgt Ion:138 Resp: 65397

Ion Ratio Lower Upper

138 100

108 9.7 7.8 11.8

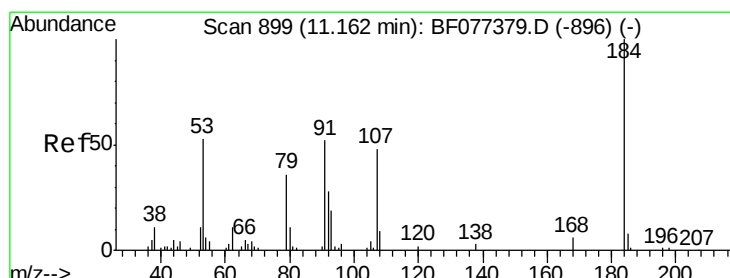
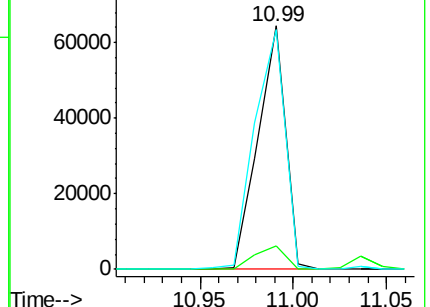
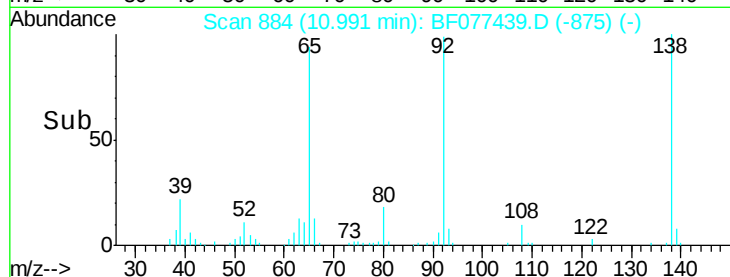
92 98.6 90.6 135.8



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): E



#53

2,4-Dinitrophenol

Concen: 89.71 ng

RT: 11.12 min Scan# 895

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

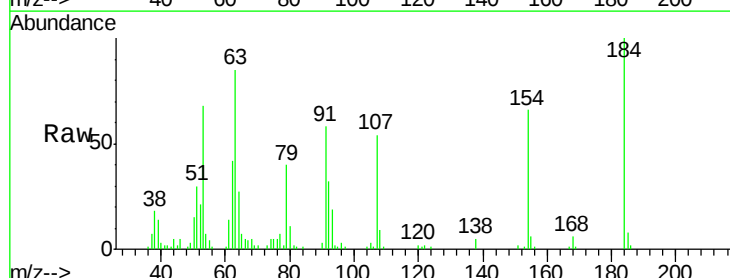
Tgt Ion:184 Resp: 59182

Ion Ratio Lower Upper

184 100

63 84.6 29.5 44.3#

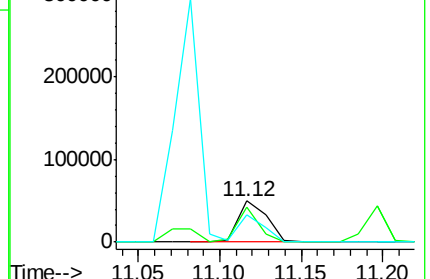
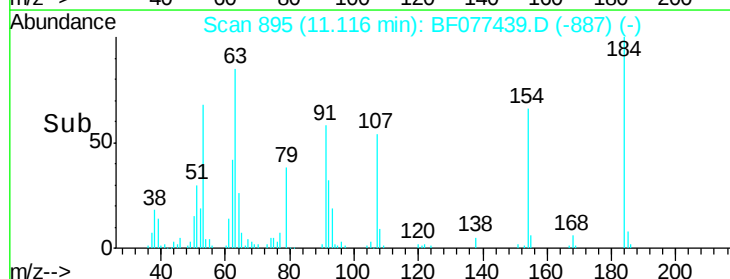
154 66.1 43.2 64.8#

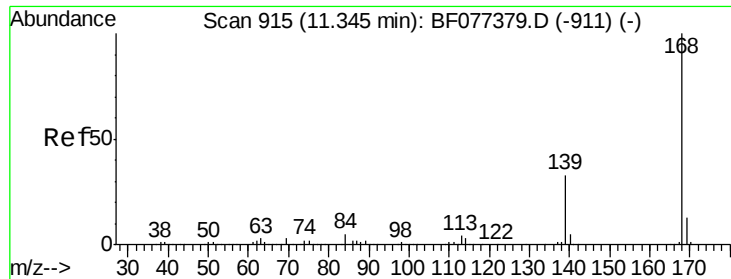


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

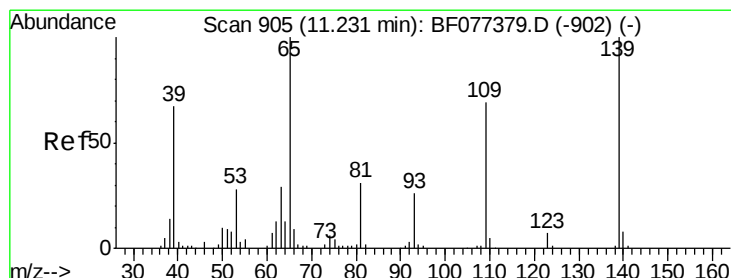
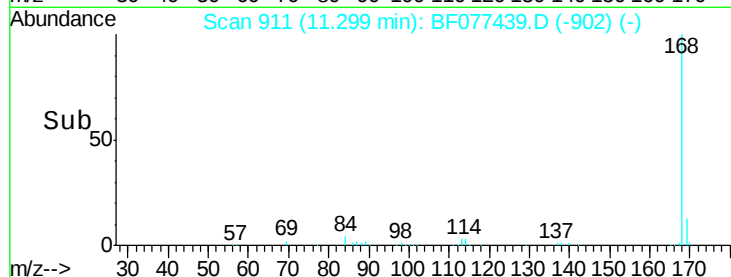
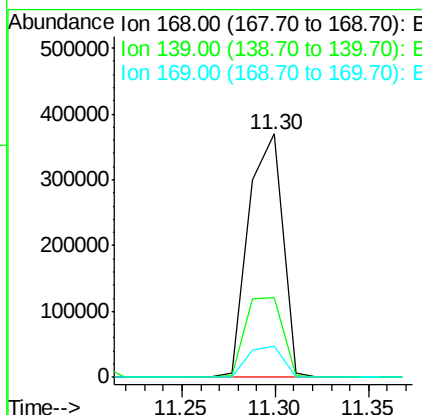
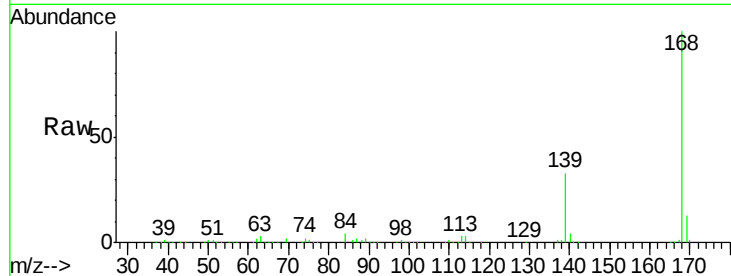




#54
Dibenzenofuran
Concen: 35.11 ng
RT: 11.30 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

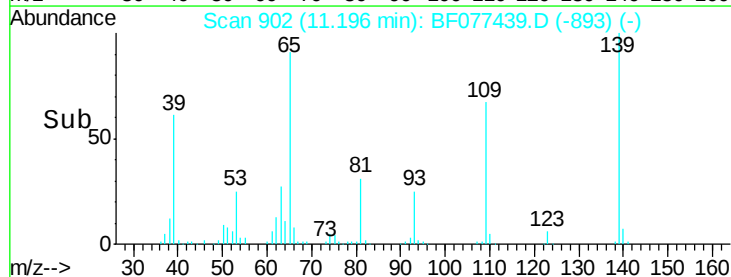
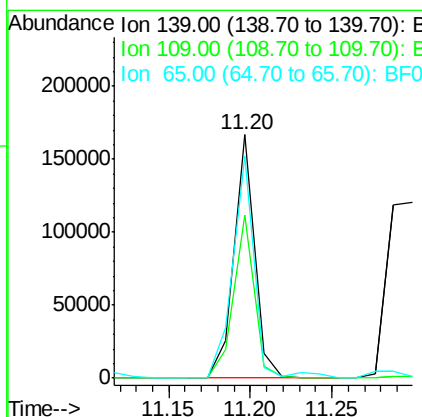
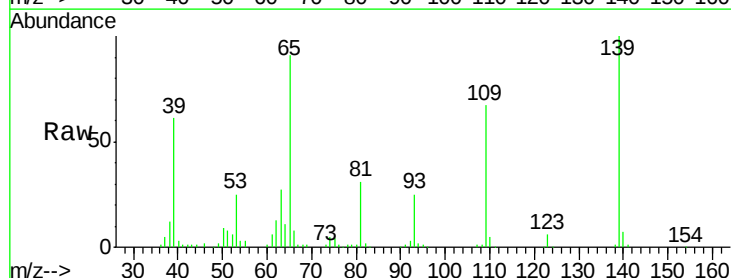
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMSD

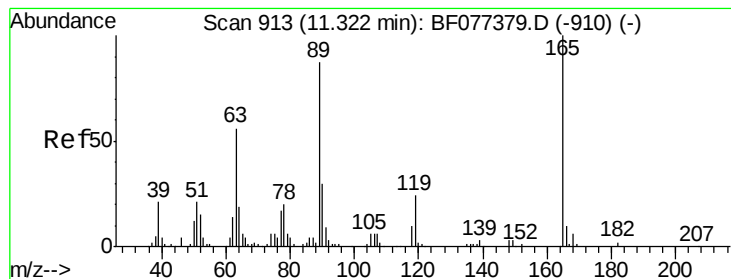
Tgt Ion:168 Resp: 467912
Ion Ratio Lower Upper
168 100
139 32.7 29.3 43.9
169 12.8 10.9 16.3



#55
4-Nitrophenol
Concen: 72.39 ng
RT: 11.20 min Scan# 902
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:139 Resp: 145535
Ion Ratio Lower Upper
139 100
109 67.2 36.2 76.2
65 91.2 40.3 80.3#





#56

2,4-Dinitrotoluene

Concen: 38.72 ng

RT: 11.29 min Scan# 910

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

Tgt Ion:165 Resp: 113426

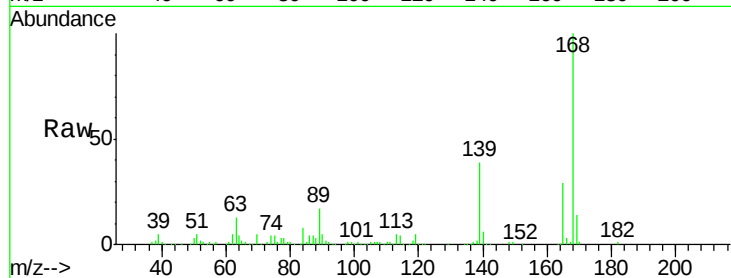
Ion Ratio Lower Upper

165 100

63 43.4 29.8 44.8

89 57.4 48.5 72.7

182 2.5 1.9 2.9

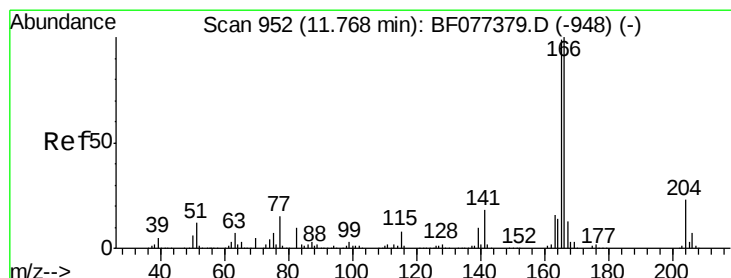
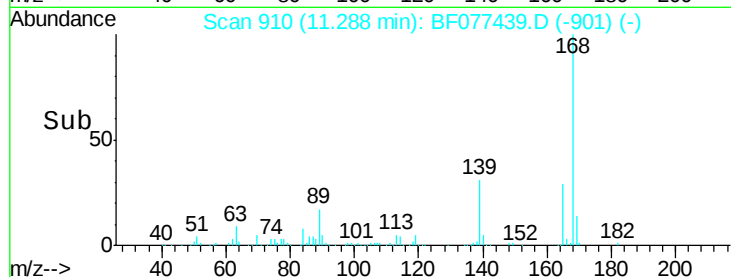
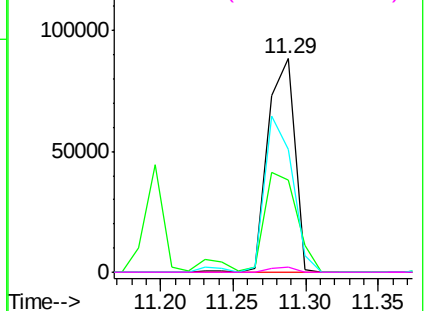


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 35.13 ng

RT: 11.72 min Scan# 948

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

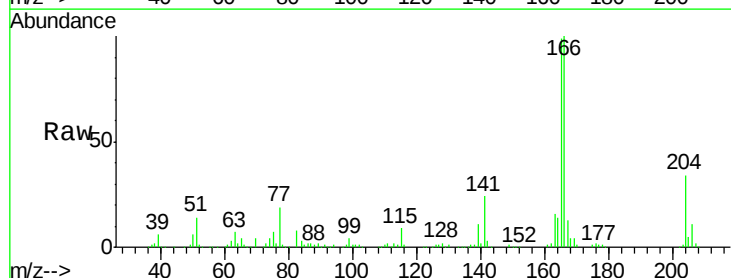
Tgt Ion:166 Resp: 374349

Ion Ratio Lower Upper

166 100

165 99.4 77.6 116.4

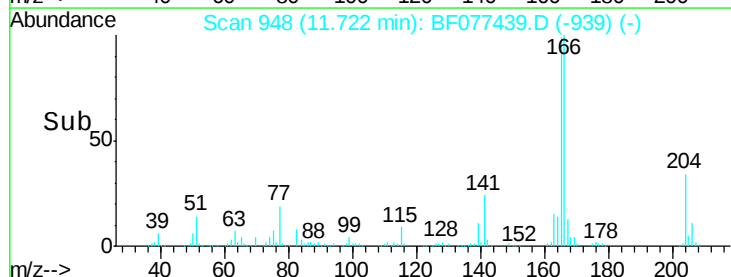
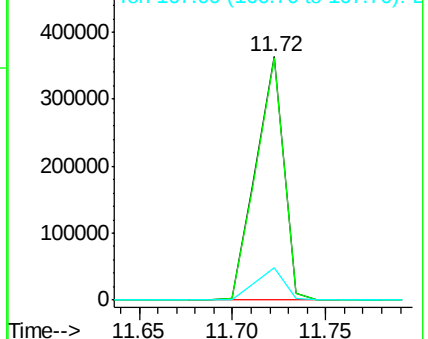
167 13.1 10.6 16.0

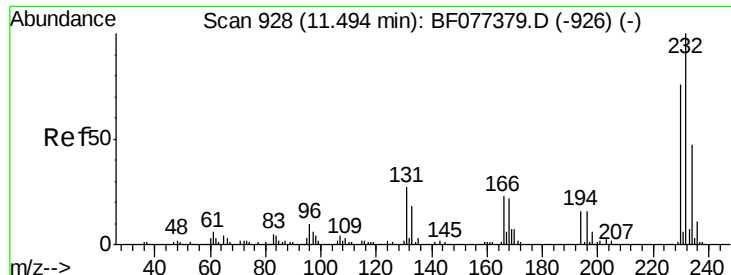


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

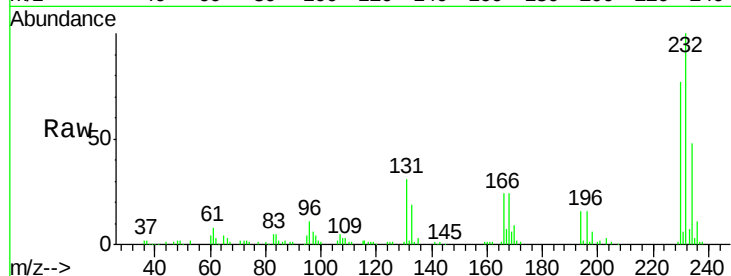




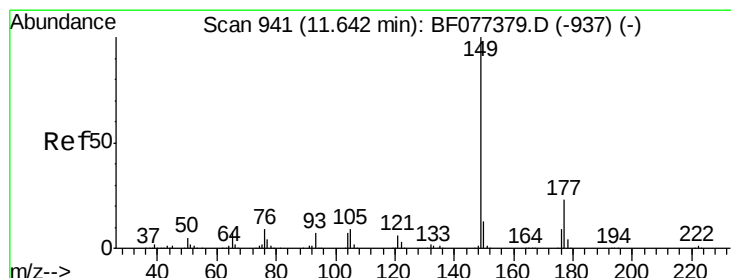
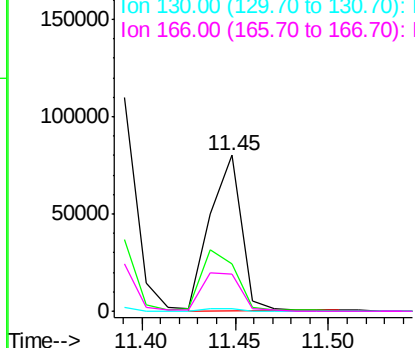
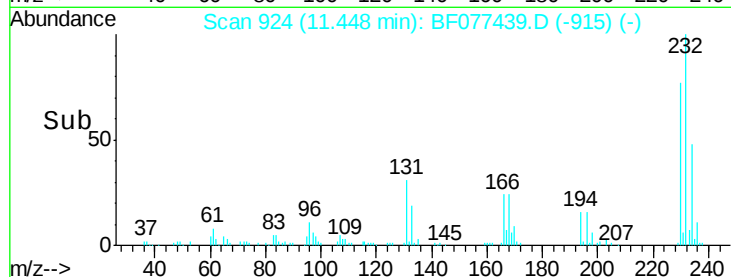
#58
 2,3,4,6-Tetrachlorophenol
 Concen: 37.22 ng
 RT: 11.45 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion: 232 Resp: 93495
 Ion Ratio Lower Upper
 232 100
 131 44.7 34.2 51.2
 130 2.0 1.8 2.6
 166 30.0 24.3 36.5

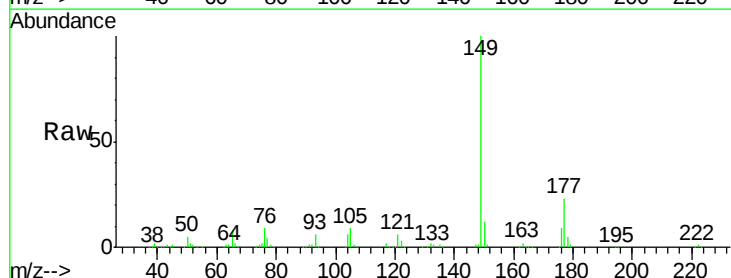


Abundance Ion 232.00 (231.70 to 232.70): E
 Ion 131.00 (130.70 to 131.70): E
 Ion 130.00 (129.70 to 130.70): E
 Ion 166.00 (165.70 to 166.70): E

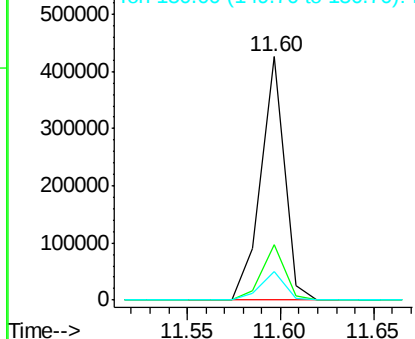
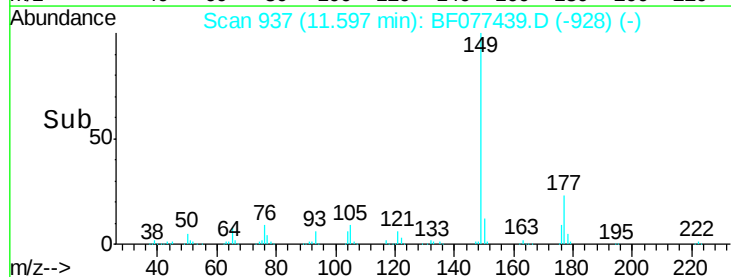


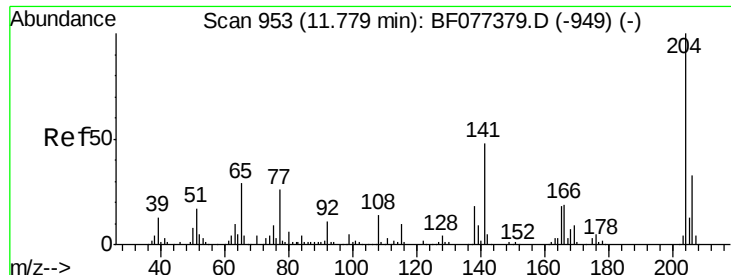
#59
 Diethylphthalate
 Concen: 34.82 ng
 RT: 11.60 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion: 149 Resp: 371095
 Ion Ratio Lower Upper
 149 100
 177 23.0 17.2 25.8
 150 11.8 10.5 15.7



Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 177.00 (176.70 to 177.70): E
 Ion 150.00 (149.70 to 150.70): E

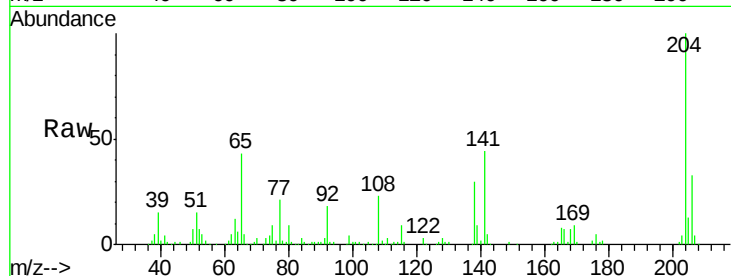




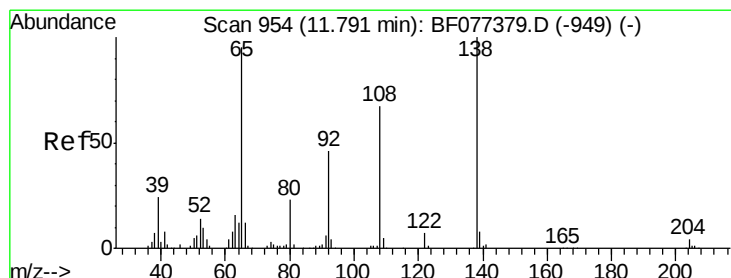
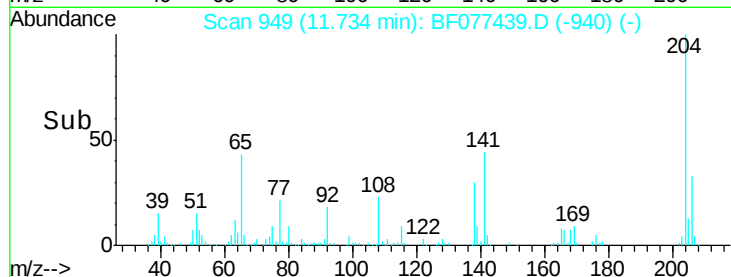
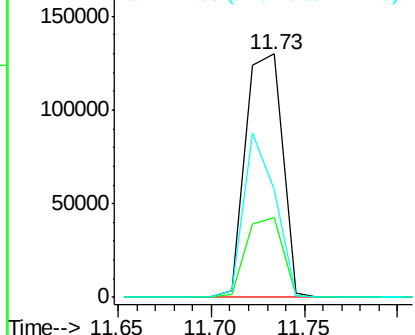
#60
 4-Chlorophenyl-phenylether
 Concen: 34.64 ng
 RT: 11.73 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

Tgt Ion:204 Resp: 177861
 Ion Ratio Lower Upper
 204 100
 206 32.7 25.9 38.9
 141 44.3 43.6 65.4

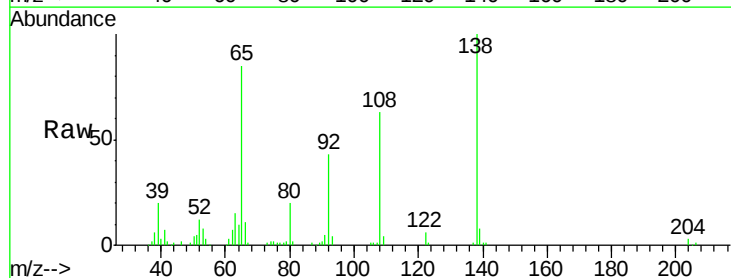


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

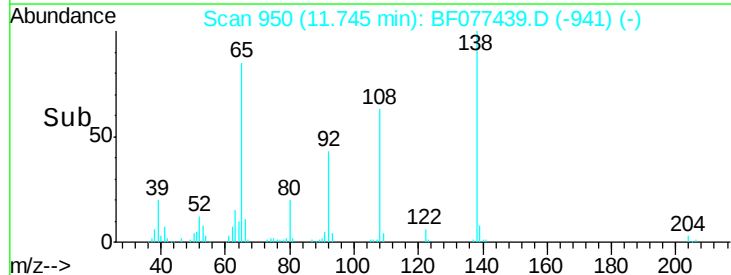
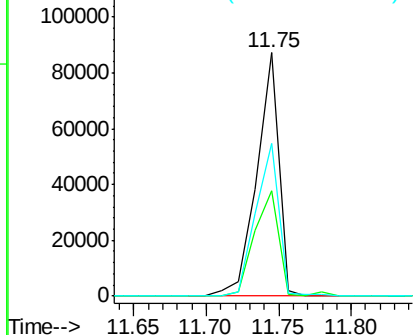


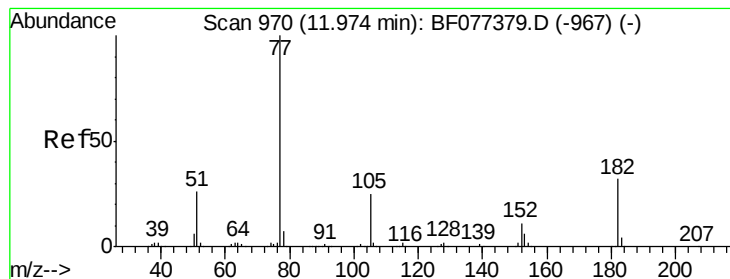
#61
 4-Nitroaniline
 Concen: 38.63 ng
 RT: 11.75 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:138 Resp: 92553
 Ion Ratio Lower Upper
 138 100
 92 43.4 32.8 72.8
 108 62.8 52.1 92.1



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BF0
 Ion 108.00 (107.70 to 108.70): E





#62

Azobenzene

Concen: 33.64 ng

RT: 11.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

Tgt Ion: 77 Resp: 340124

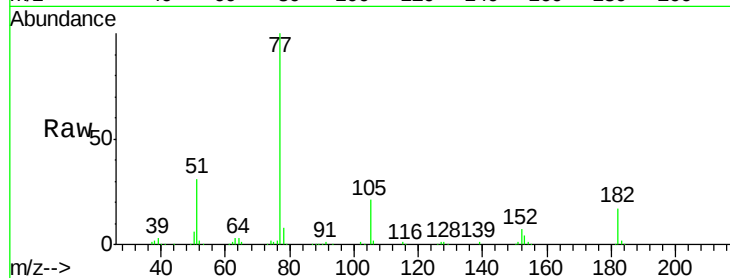
Ion Ratio Lower Upper

77 100

182 16.6 4.9 44.9

105 21.1 3.3 43.3

51 31.0 8.9 48.9

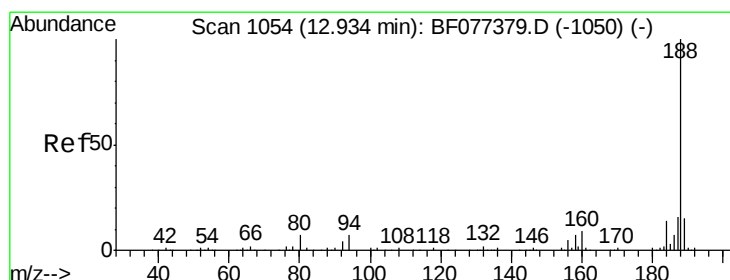
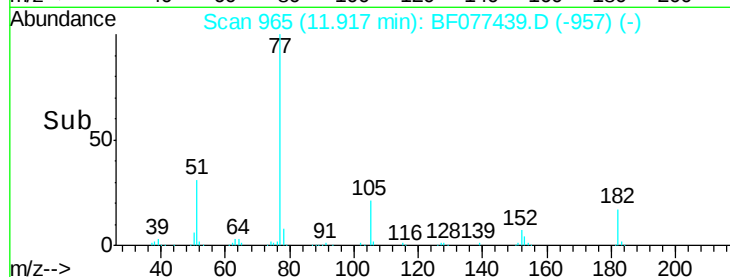
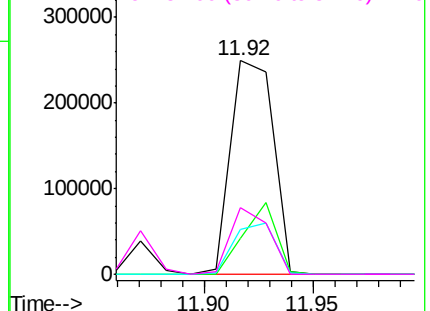


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.88 min Scan# 1049

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

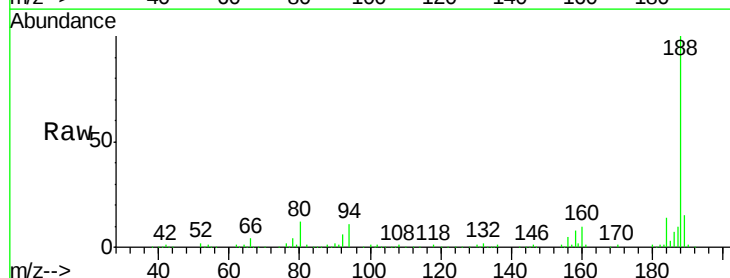
Tgt Ion: 188 Resp: 303640

Ion Ratio Lower Upper

188 100

94 11.2 7.4 11.2#

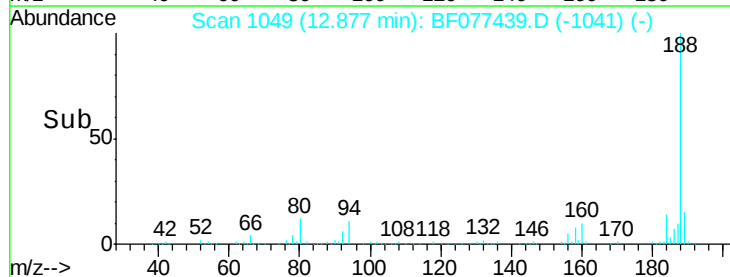
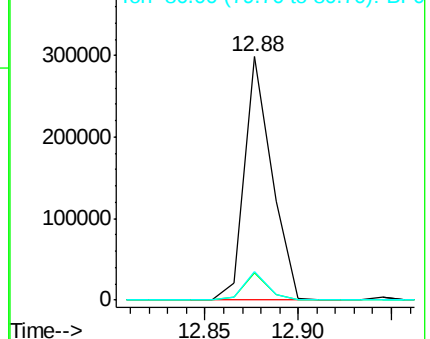
80 11.7 8.0 12.0

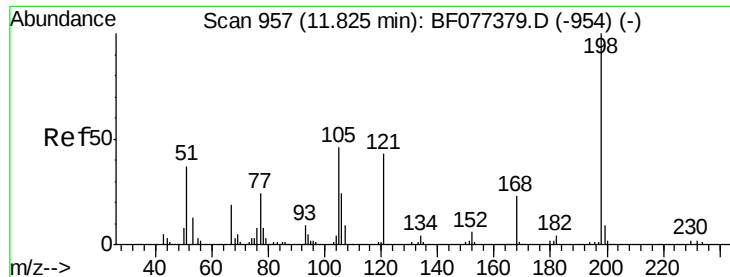


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

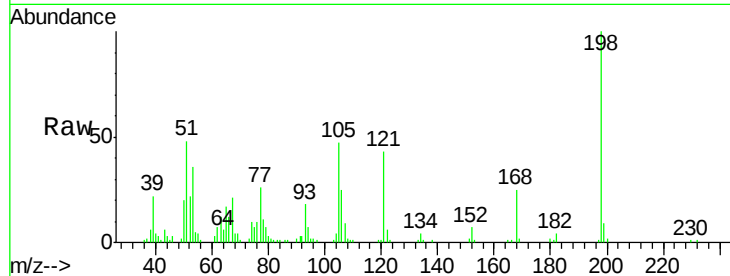




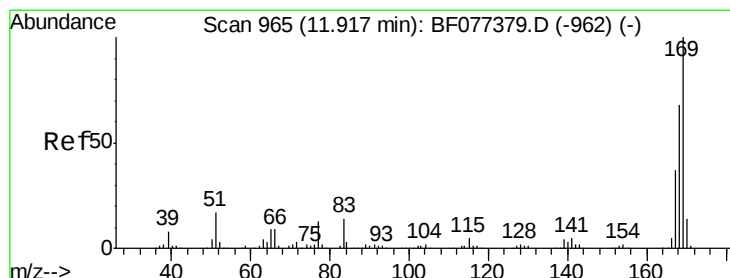
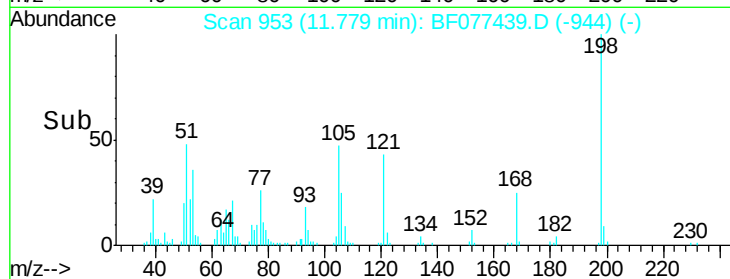
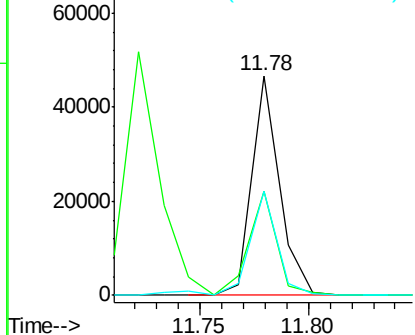
#64
 4,6-Dinitro-2-methylphenol
 Concen: 35.26 ng
 RT: 11.78 min Scan# 953
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

Tgt Ion:198 Resp: 41431
 Ion Ratio Lower Upper
 198 100
 51 47.6 2.7 42.7#
 105 47.4 10.0 50.0

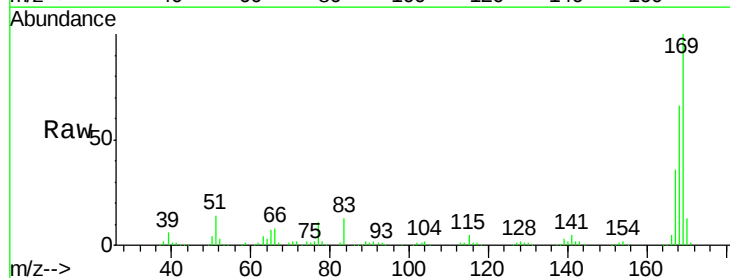


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF0
 Ion 105.00 (104.70 to 105.70): E

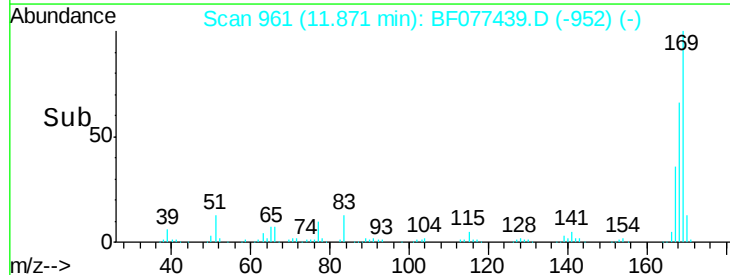
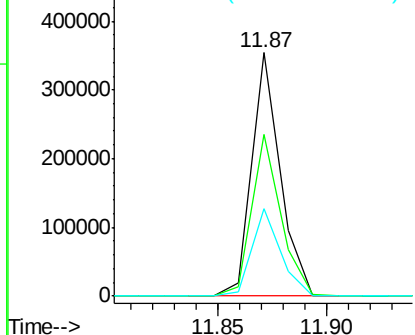


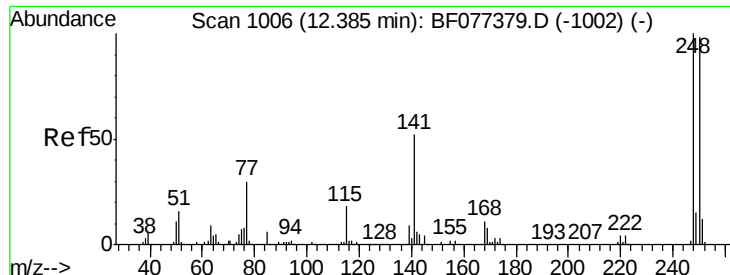
#65
 n-Nitrosodiphenylamine
 Concen: 31.96 ng
 RT: 11.87 min Scan# 961
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:169 Resp: 322012
 Ion Ratio Lower Upper
 169 100
 168 66.4 53.0 79.6
 167 36.1 29.5 44.3



Abundance Ion 169.00 (168.70 to 169.70): E
 Ion 168.00 (167.70 to 168.70): E
 Ion 167.00 (166.70 to 167.70): E

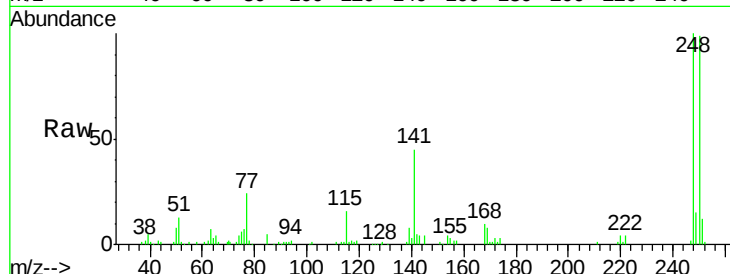




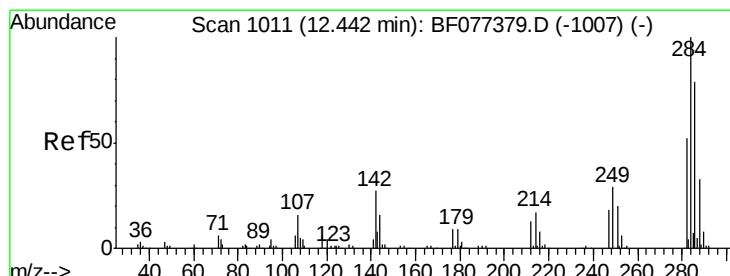
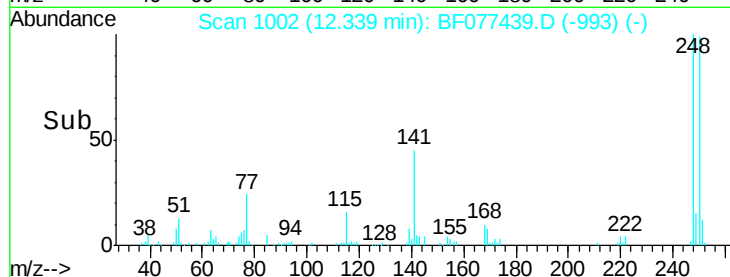
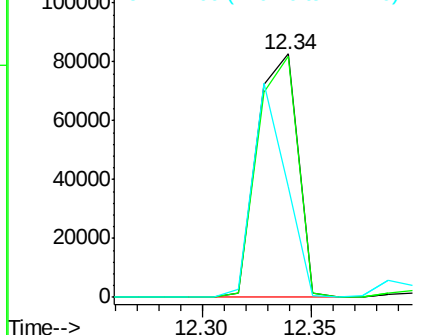
#66
 4-Bromophenyl-phenylether
 Concen: 30.41 ng
 RT: 12.34 min Scan# 1002
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

Tgt Ion:248 Resp: 108143
 Ion Ratio Lower Upper
 248 100
 250 98.9 78.0 117.0
 141 45.2 54.1 81.1#

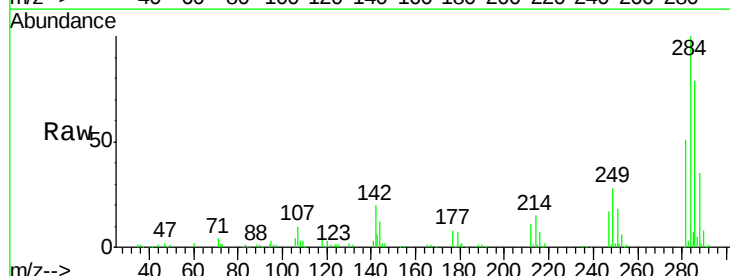


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

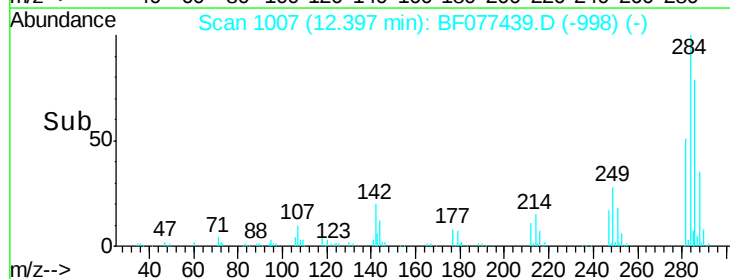
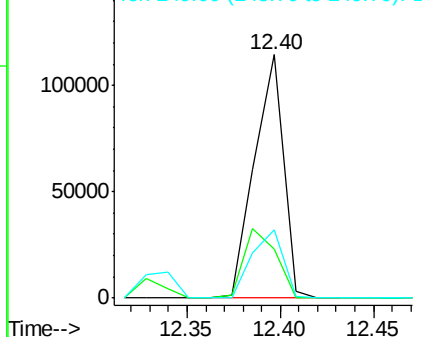


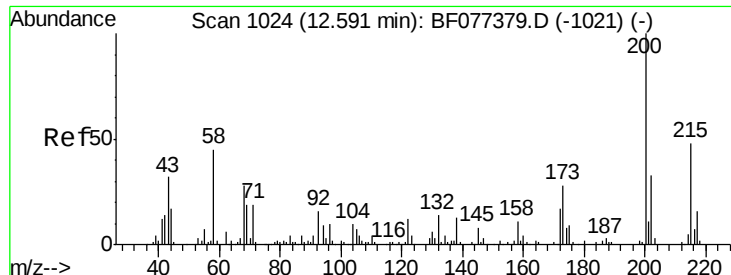
#67
 Hexachlorobenzene
 Concen: 32.24 ng
 RT: 12.40 min Scan# 1007
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion:284 Resp: 123033
 Ion Ratio Lower Upper
 284 100
 142 20.0 31.6 47.4#
 249 27.9 27.0 40.4



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

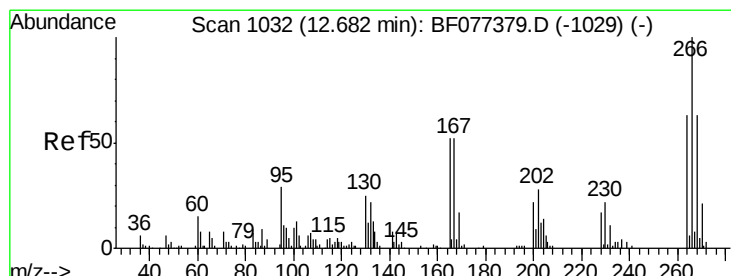
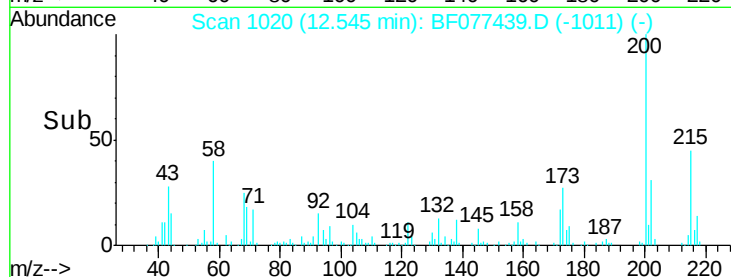
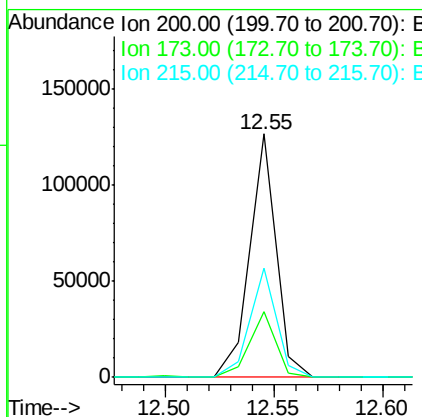
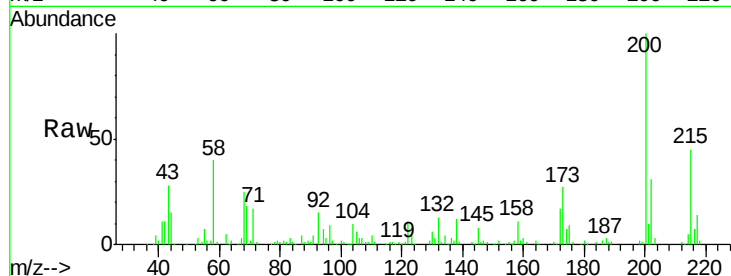




#68
 Atrazine
 Concen: 32.65 ng
 RT: 12.55 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

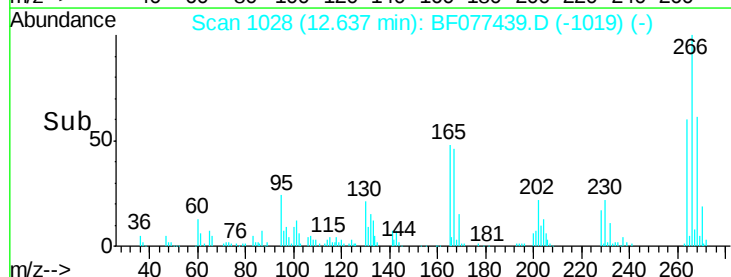
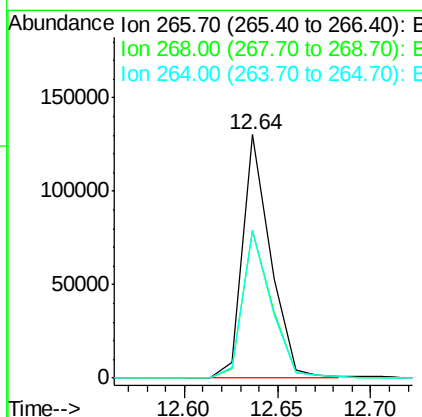
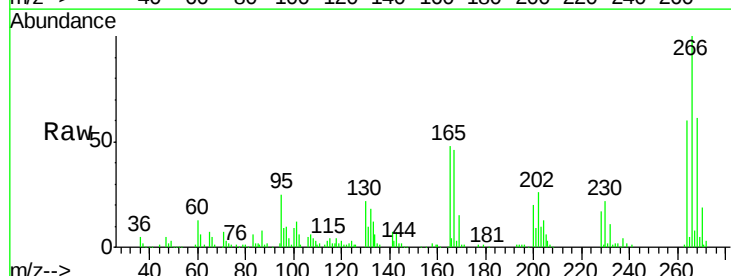
Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGMSD

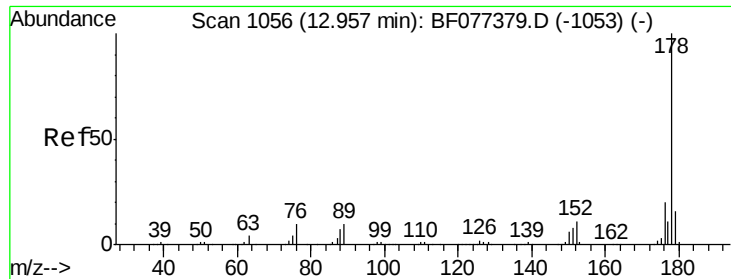
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.1	9.6	49.6
215	44.9	24.4	64.4



#69
 Pentachlorophenol
 Concen: 68.16 ng
 RT: 12.64 min Scan# 1028
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion	Ratio	Lower	Upper
266	100		
268	60.8	51.2	76.8
264	60.4	50.7	76.1





#70

Phenanthrene

Concen: 33.22 ng

RT: 12.91 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

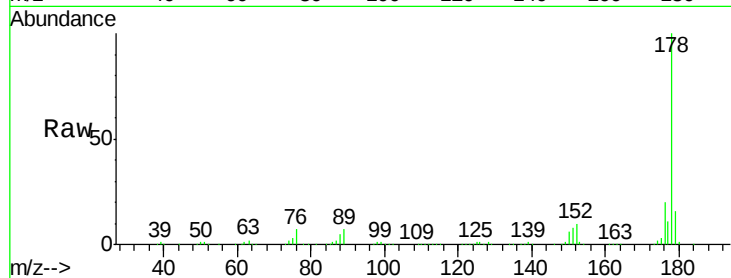
Tgt Ion:178 Resp: 584625

Ion Ratio Lower Upper

178 100

176 19.7 15.5 23.3

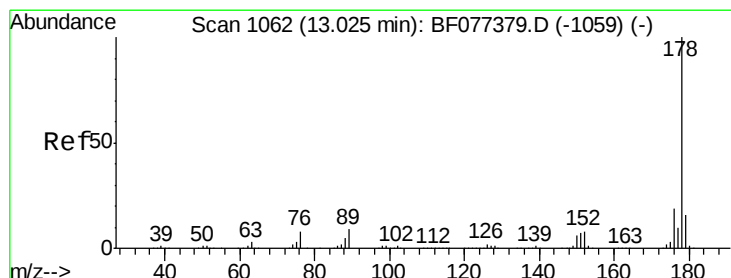
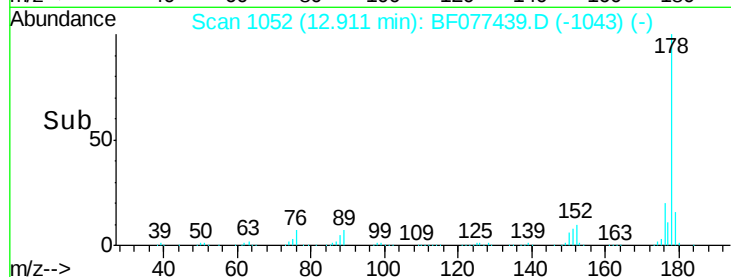
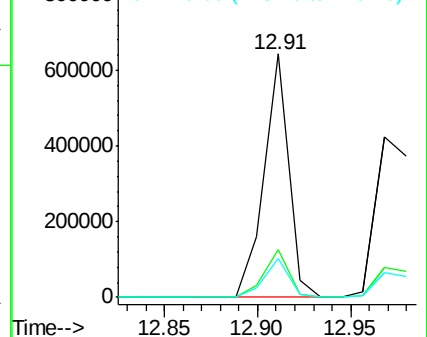
179 15.9 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 32.06 ng

RT: 12.97 min Scan# 1057

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

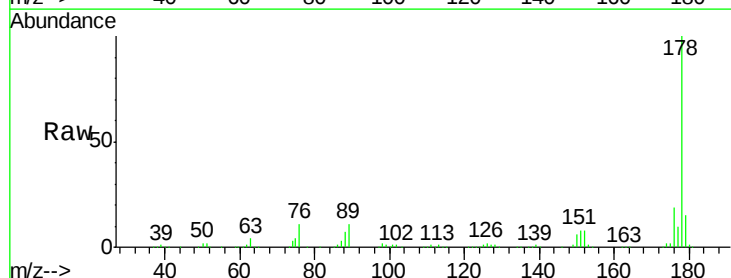
Tgt Ion:178 Resp: 559904

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.0

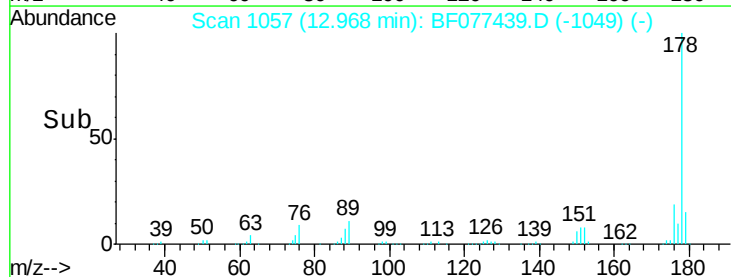
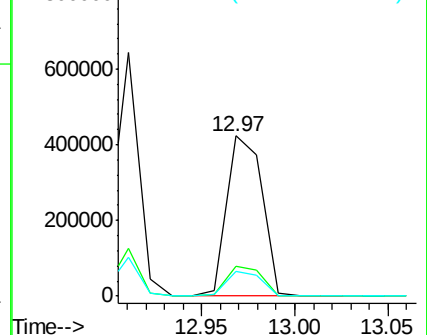
179 15.4 12.9 19.3

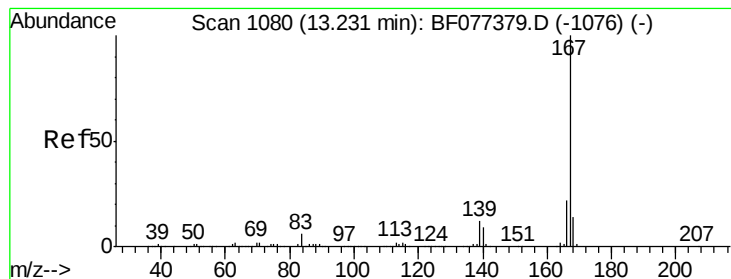


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 32.32 ng

RT: 13.17 min Scan# 1075

Delta R.T. -0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

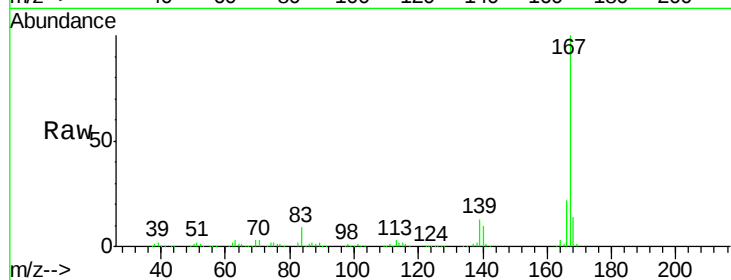
Tgt Ion:167 Resp: 536688

Ion Ratio Lower Upper

167 100

166 21.8 17.6 26.4

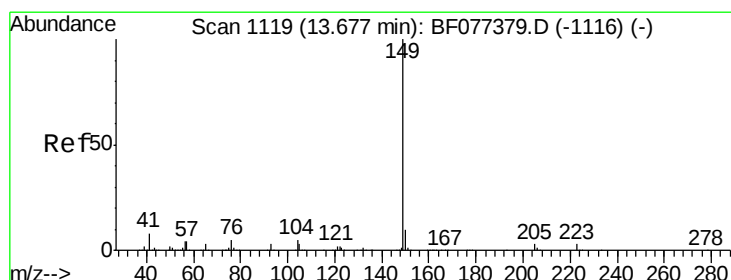
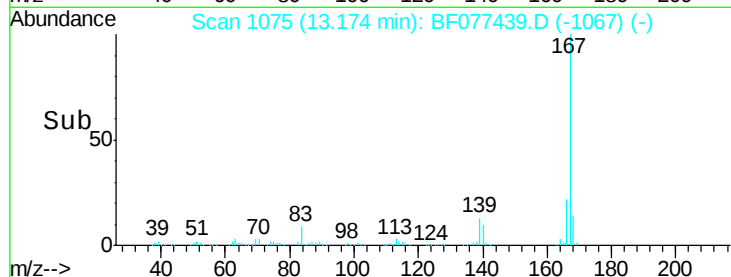
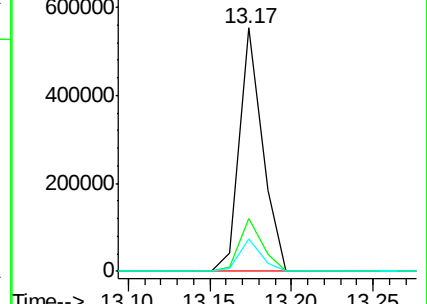
139 13.3 9.9 14.9



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 30.95 ng

RT: 13.63 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

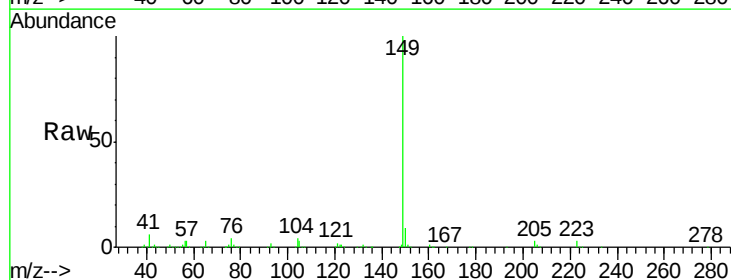
Tgt Ion:149 Resp: 603485

Ion Ratio Lower Upper

149 100

150 9.0 7.8 11.8

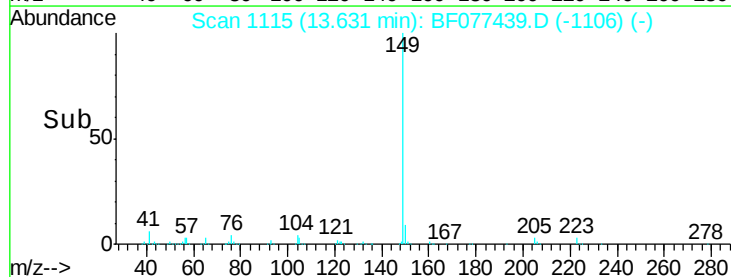
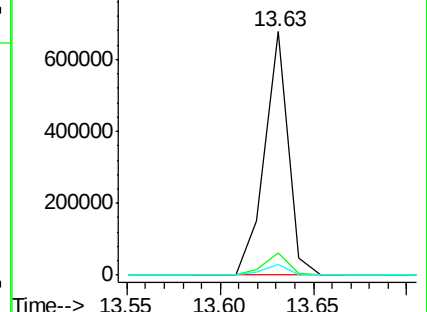
104 4.3 4.1 6.1

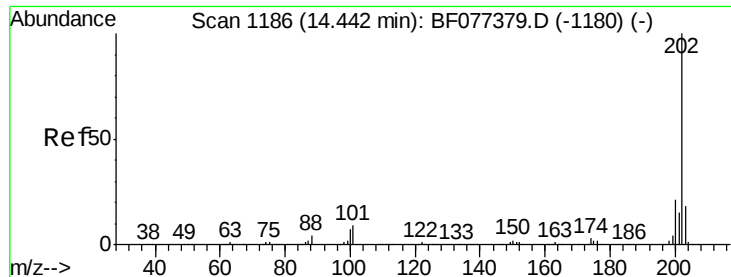


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

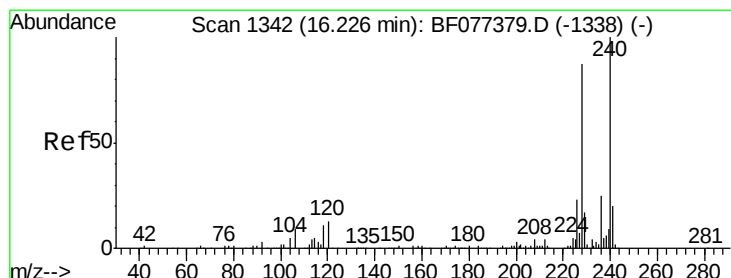
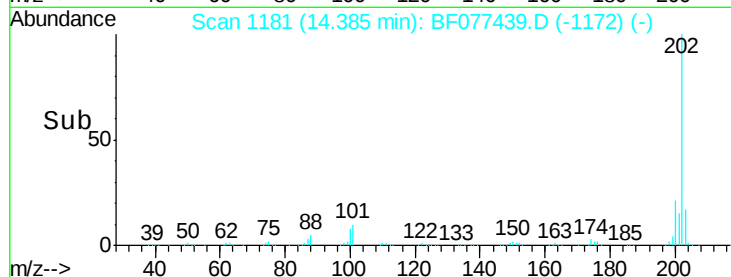
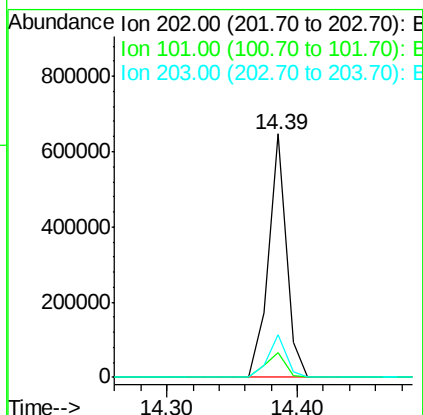
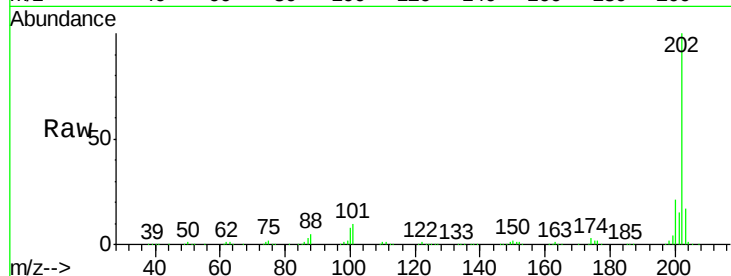




#74
Fluoranthene
Concen: 32.85 ng
RT: 14.39 min Scan# 1181
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

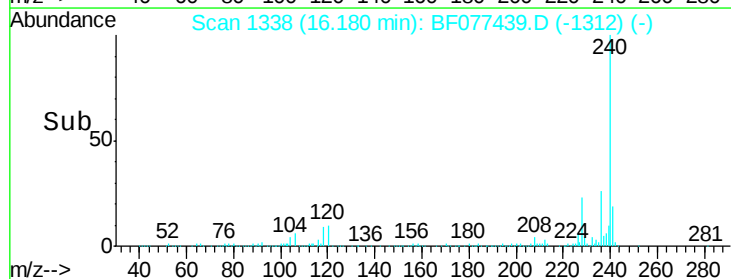
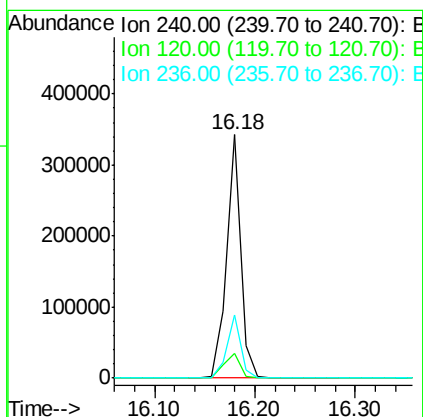
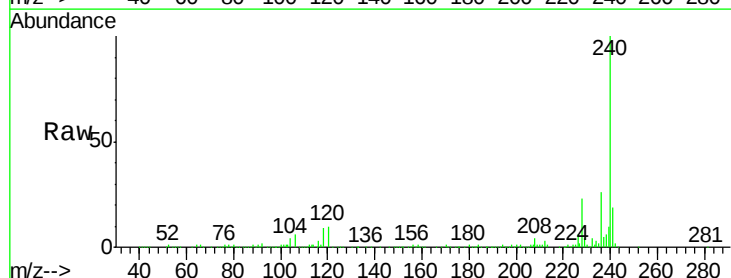
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMSD

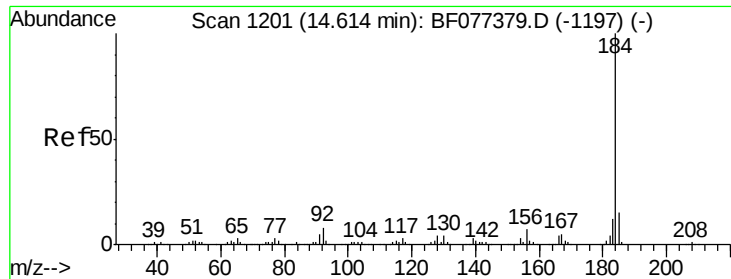
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.8
203	17.5	0.0	37.7



#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.18 min Scan# 1338
Delta R.T. 0.00 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.8	13.2
236	25.7	20.7	31.1

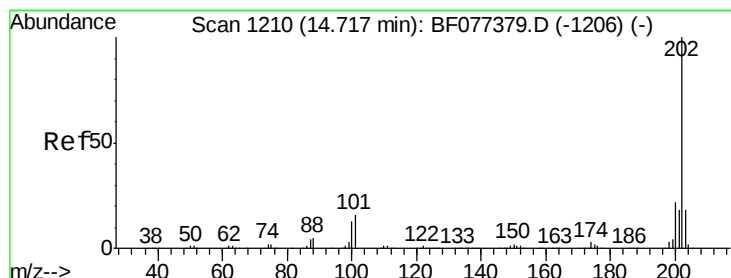
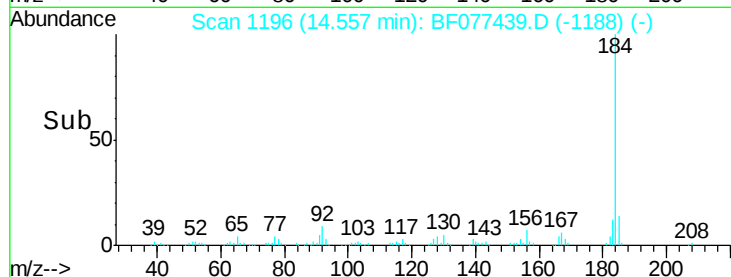
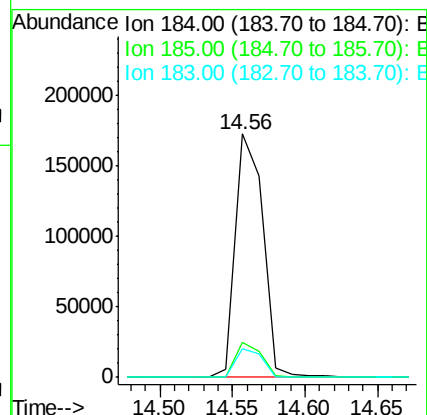
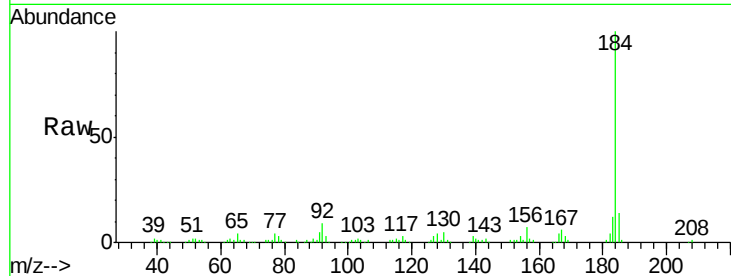




#76
Benzidine
Concen: 20.11 ng
RT: 14.56 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

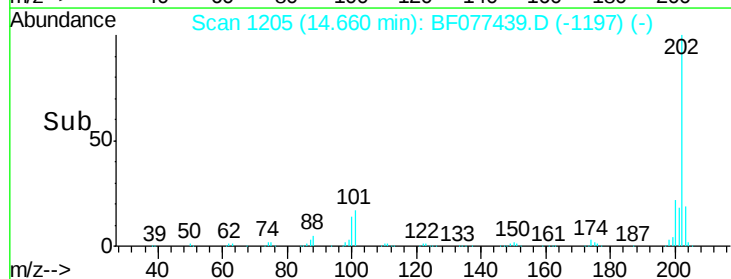
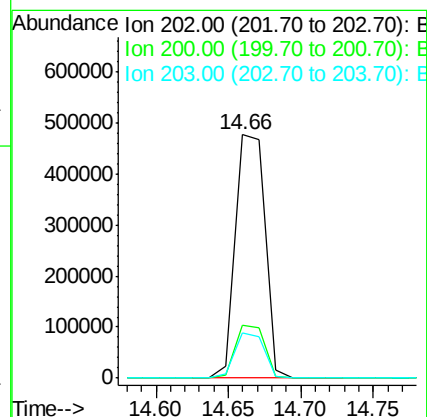
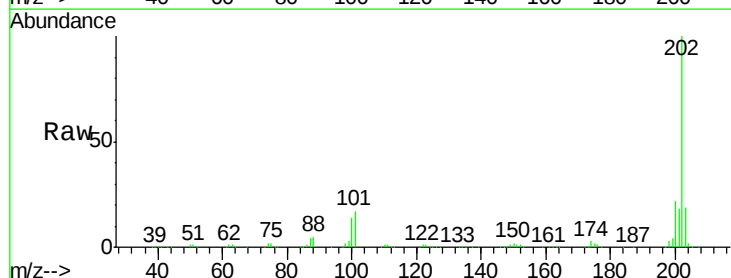
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

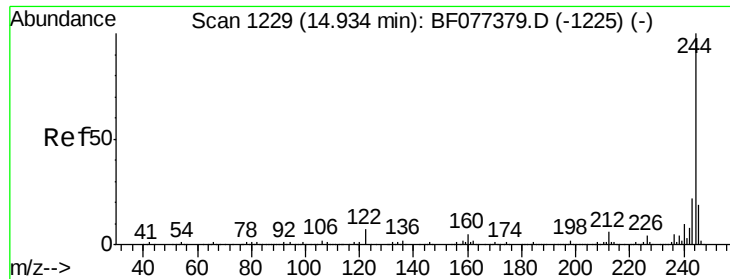
Tgt Ion:184 Resp: 228731
Ion Ratio Lower Upper
184 100
185 14.2 12.6 18.8
183 11.7 9.3 13.9



#77
Pyrene
Concen: 32.90 ng
RT: 14.66 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:202 Resp: 677498
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 18.7 14.2 21.2

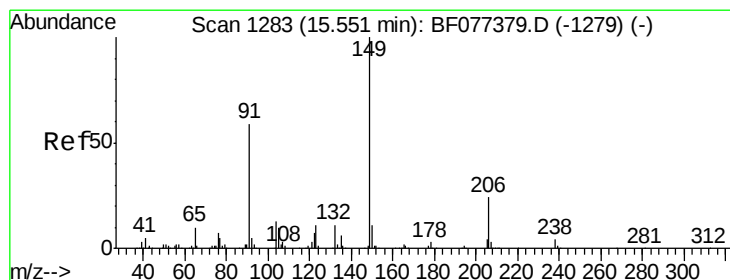
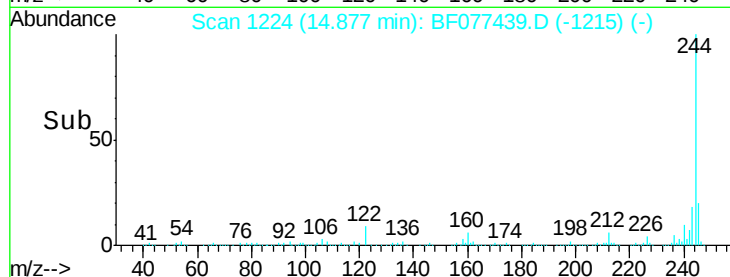
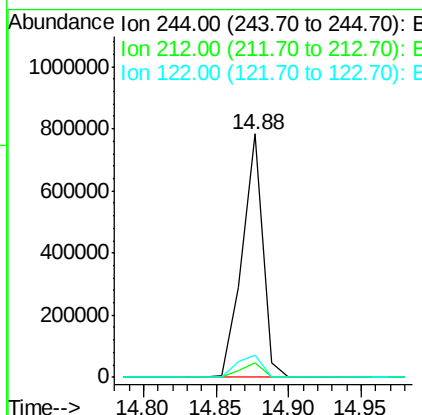
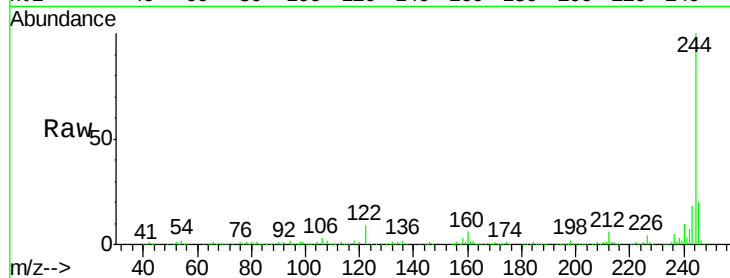




#78
 Terphenyl-d14
 Concen: 53.62 ng
 RT: 14.88 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

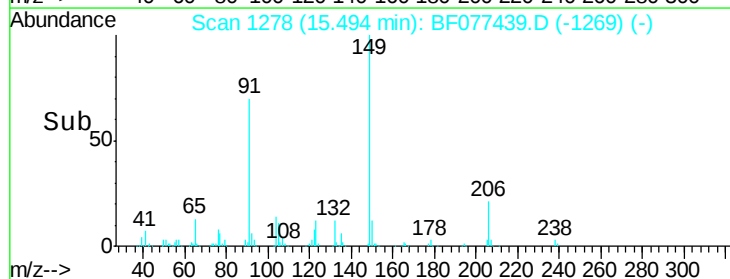
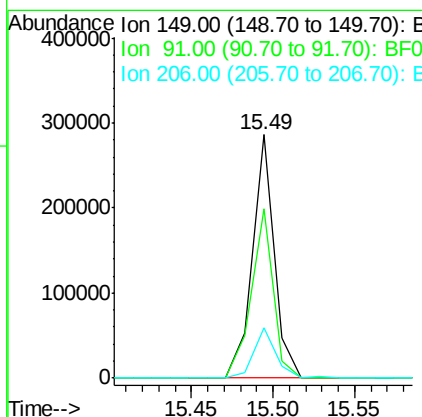
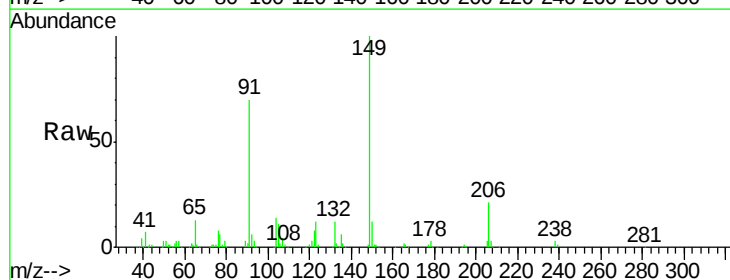
Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMSD

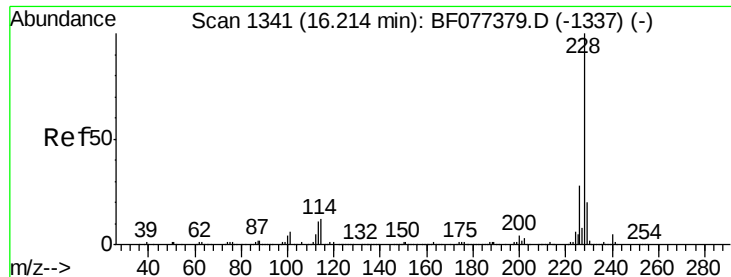
Tgt Ion: 244 Resp: 772095
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.2 7.8
 122 8.9 7.8 11.8



#79
 Butylbenzylphthalate
 Concen: 31.42 ng
 RT: 15.49 min Scan# 1278
 Delta R.T. 0.00 min
 Lab File: BF077439.D
 Acq: 25 Feb 2015 17:52

Tgt Ion: 149 Resp: 266224
 Ion Ratio Lower Upper
 149 100
 91 69.7 51.2 76.8
 206 20.6 17.8 26.8





#80

Benzo(a)anthracene

Concen: 32.78 ng

RT: 16.17 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMSD

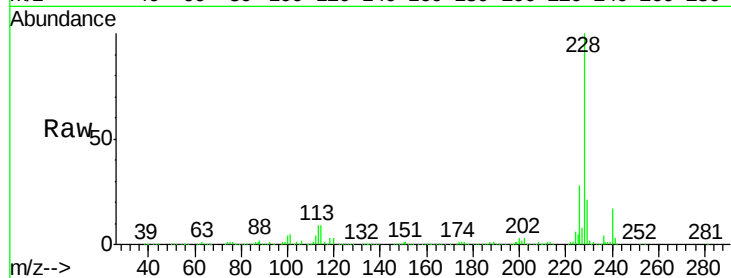
Tgt Ion:228 Resp: 646704

Ion Ratio Lower Upper

228 100

226 28.0 22.0 33.0

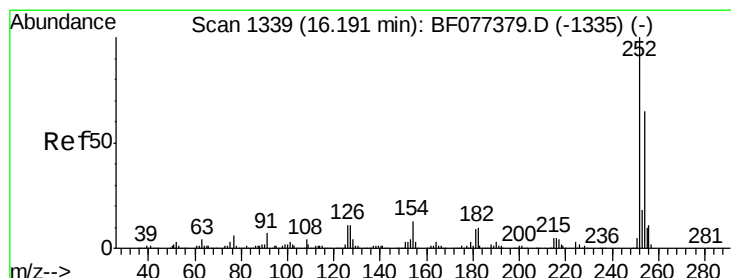
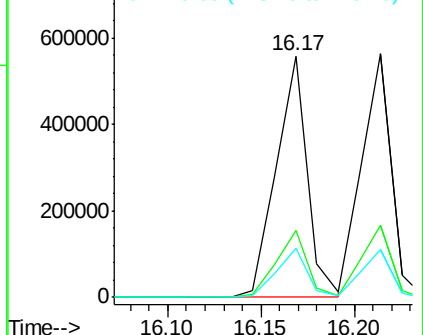
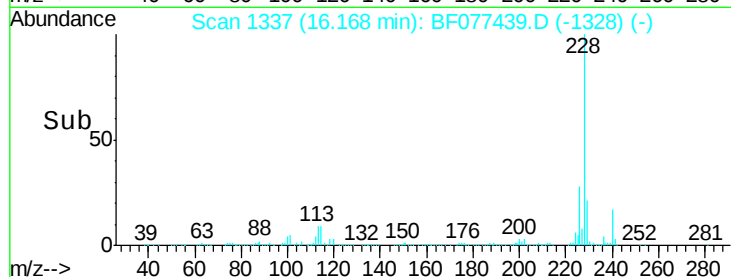
229 20.5 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#81

3,3'-Dichlorobenzidine

Concen: 18.34 ng

RT: 16.15 min Scan# 1335

Delta R.T. 0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

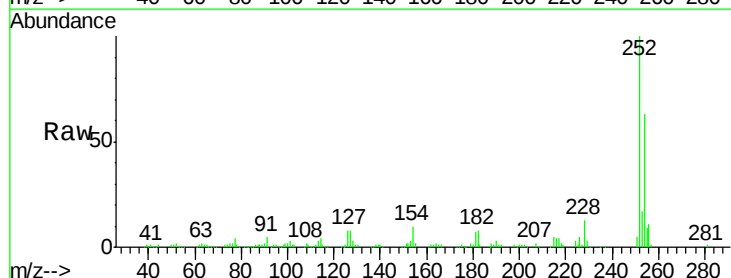
Tgt Ion:252 Resp: 132546

Ion Ratio Lower Upper

252 100

254 62.8 52.9 79.3

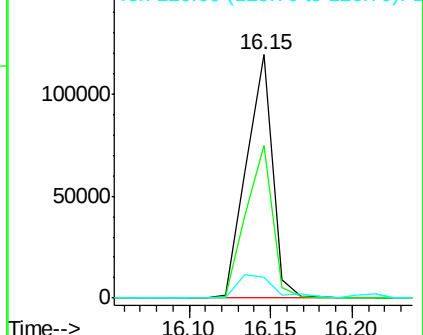
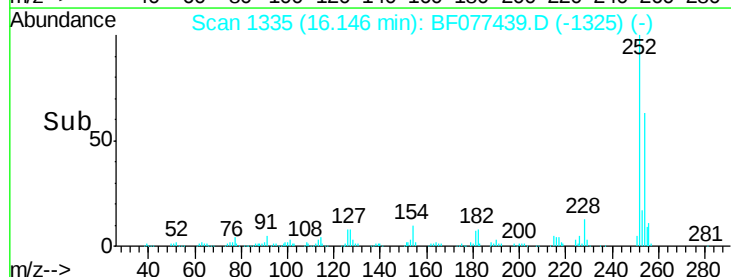
126 8.3 7.3 10.9

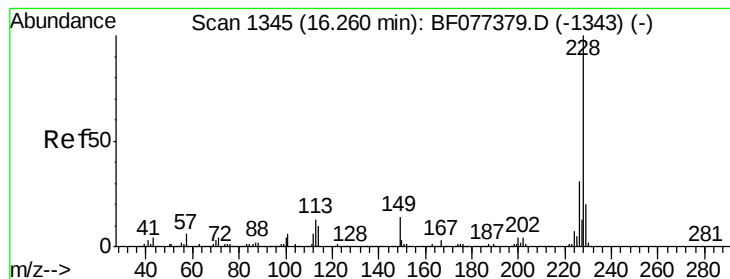


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 32.87 ng

RT: 16.21 min Scan# 1341

Delta R.T. 0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

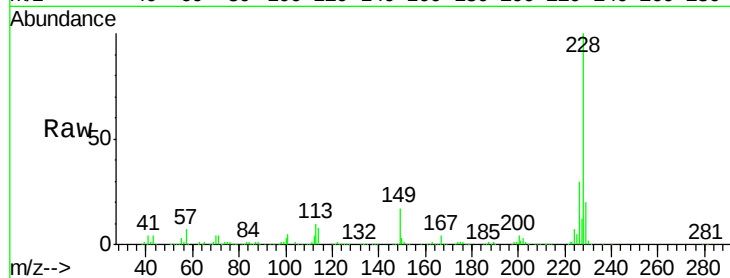
Tgt Ion:228 Resp: 608949

Ion Ratio Lower Upper

228 100

226 29.7 24.9 37.3

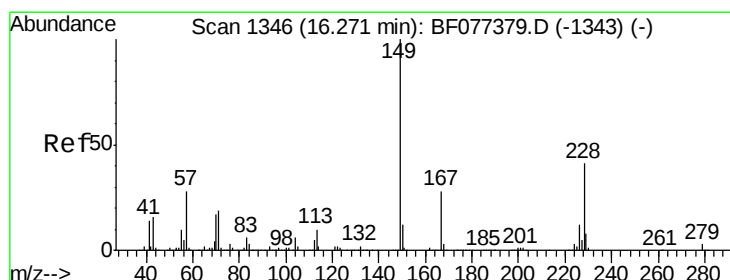
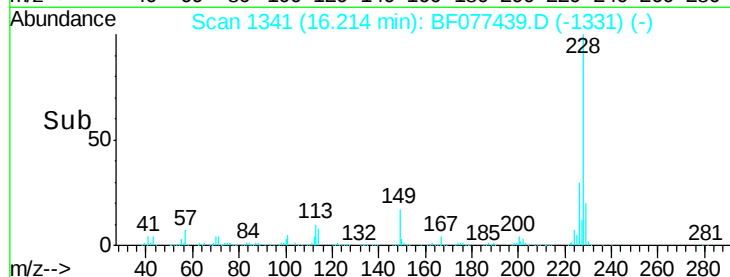
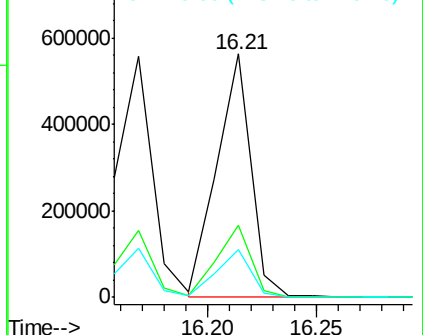
229 19.8 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 27.15 ng

RT: 16.23 min Scan# 1342

Delta R.T. 0.00 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

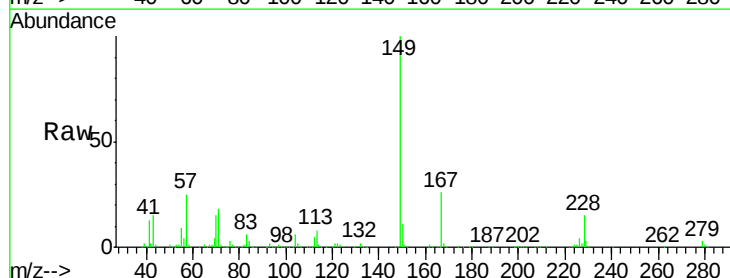
Tgt Ion:149 Resp: 368789

Ion Ratio Lower Upper

149 100

167 26.4 22.8 34.2

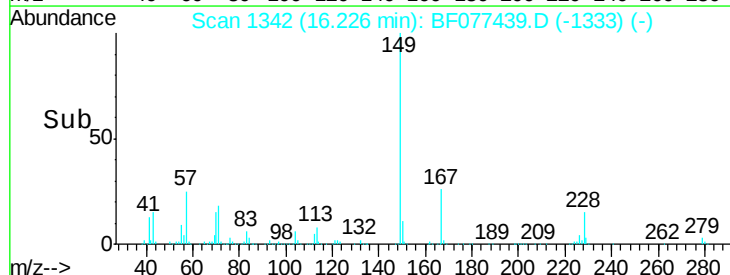
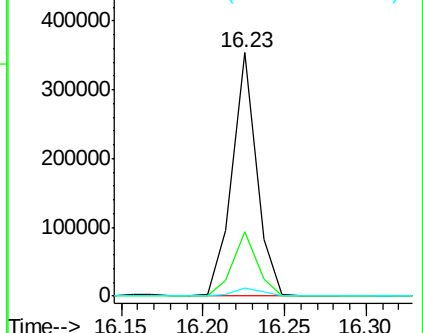
279 3.3 3.8 5.6#

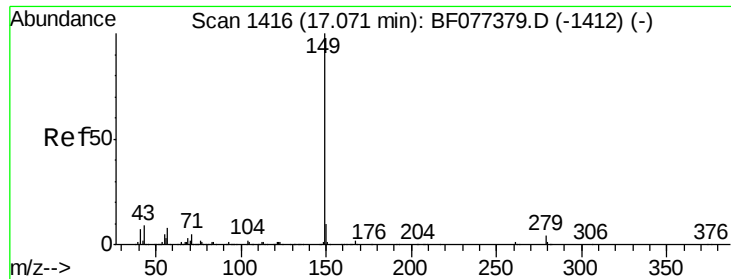


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 28.83 ng

RT: 17.04 min Scan# 1413

Delta R.T. 0.01 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGMSD

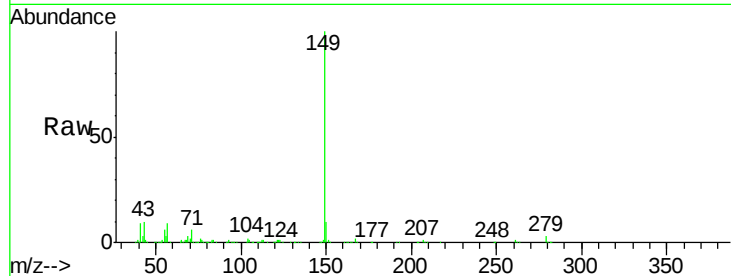
Tgt Ion:149 Resp: 653782

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

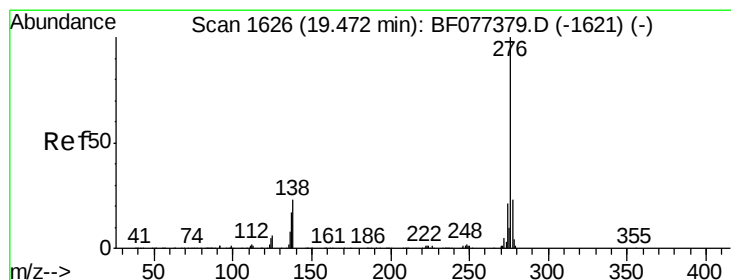
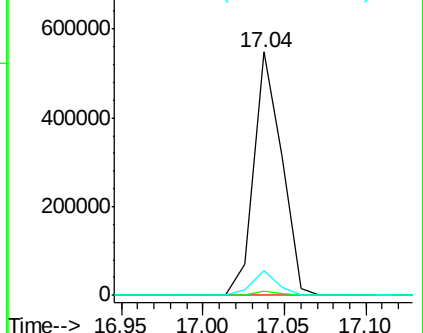
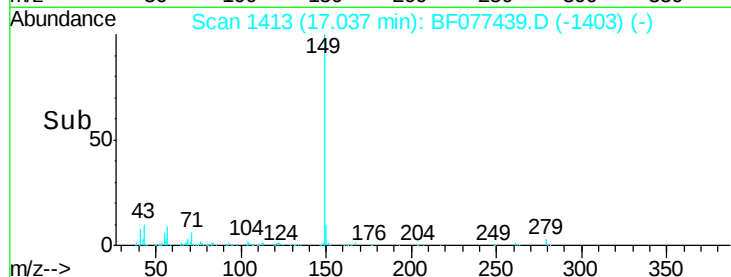
43 9.2 8.1 12.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#85

Indeno(1,2,3-cd)pyrene

Concen: 27.78 ng

RT: 19.43 min Scan# 1622

Delta R.T. 0.03 min

Lab File: BF077439.D

Acq: 25 Feb 2015 17:52

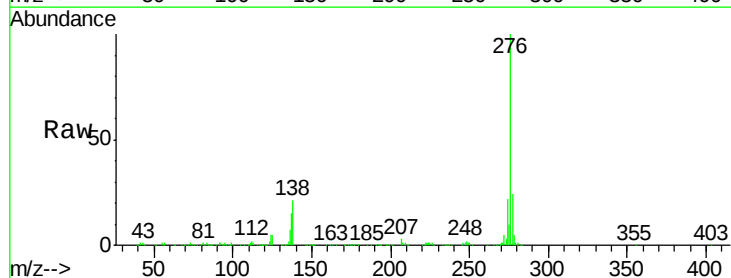
Tgt Ion:276 Resp: 586848

Ion Ratio Lower Upper

276 100

138 24.7 21.2 31.8

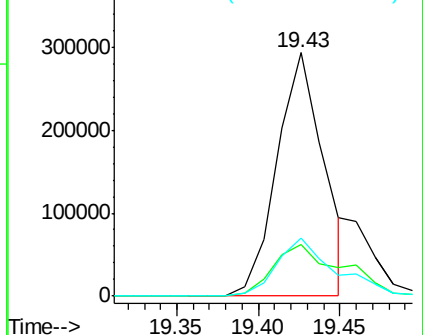
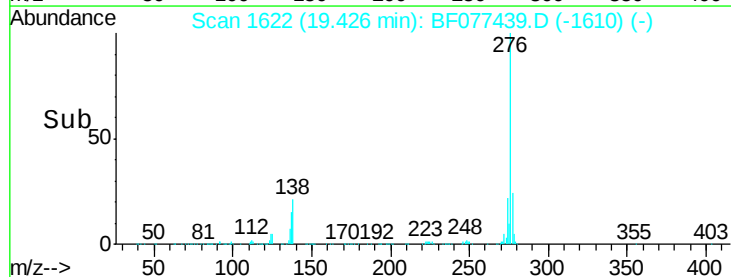
277 24.4 20.0 30.0

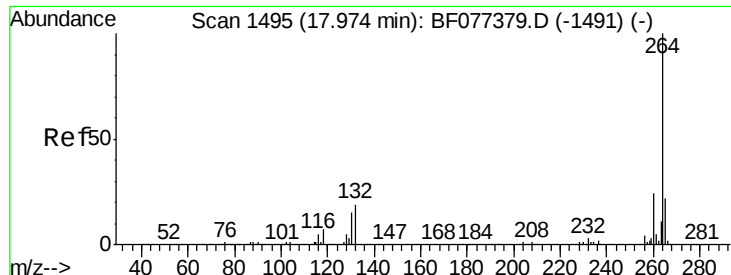


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



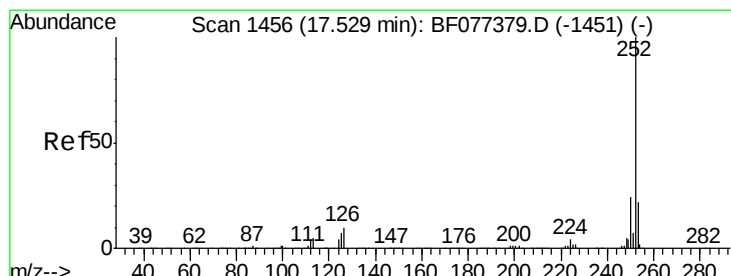
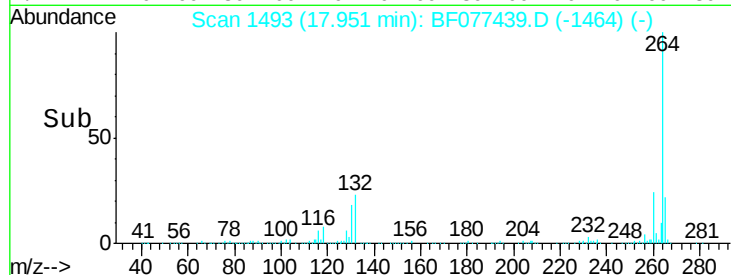
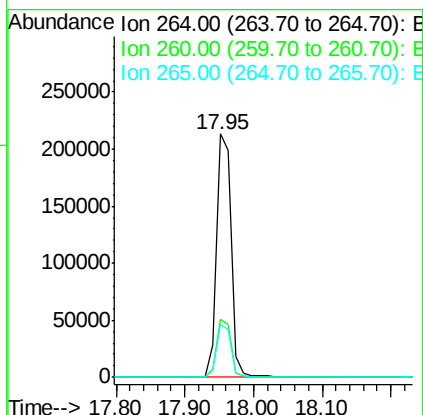
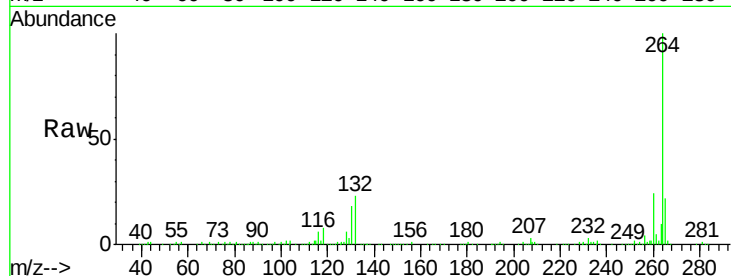


#86
Perylene-d12
Concen: 20.00 ng
RT: 17.95 min Scan# 1493
Delta R.T. 0.03 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMSD

Tgt Ion: 264 Resp: 321996

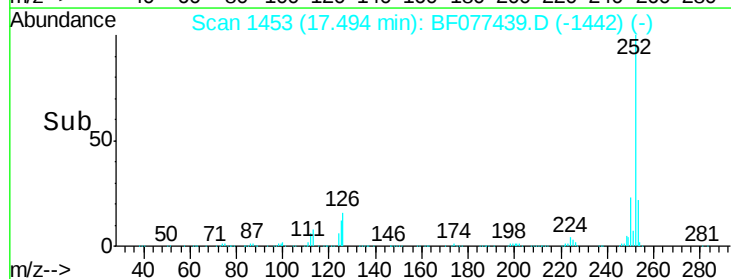
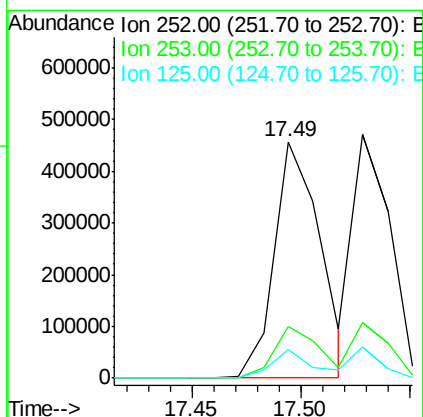
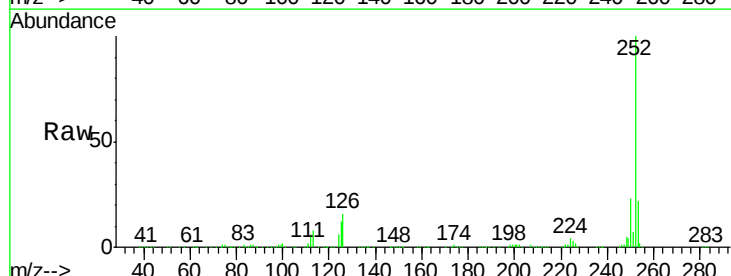
Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	21.6	16.8	25.2

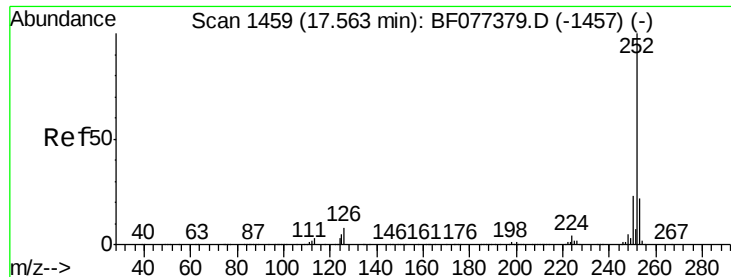


#87
Benzo(b)fluoranthene
Concen: 36.06 ng
RT: 17.49 min Scan# 1453
Delta R.T. 0.02 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion: 252 Resp: 675272

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	12.0	5.4	8.2

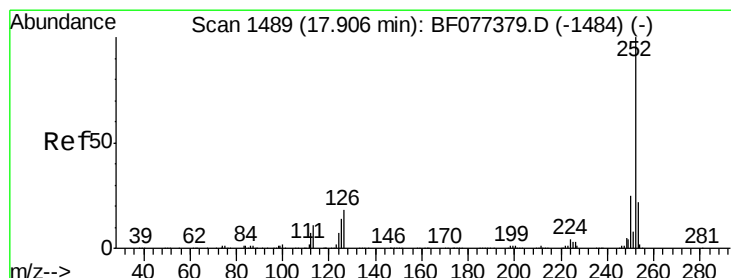
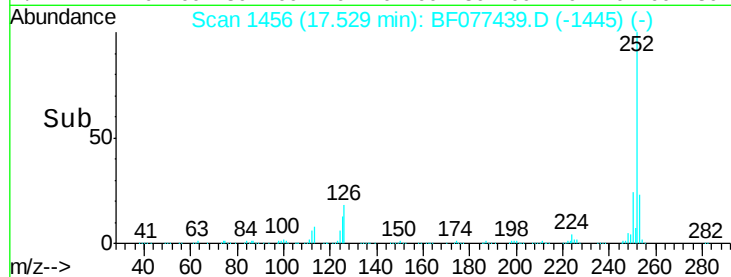
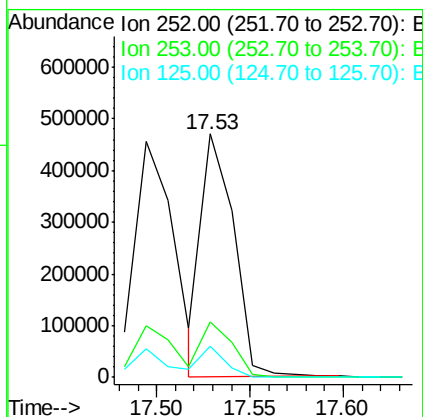
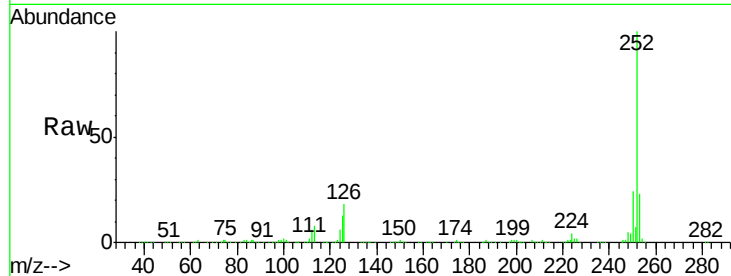




#88
Benzo(k)fluoranthene
Concen: 30.75 ng
RT: 17.53 min Scan# 1456
Delta R.T. 0.02 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

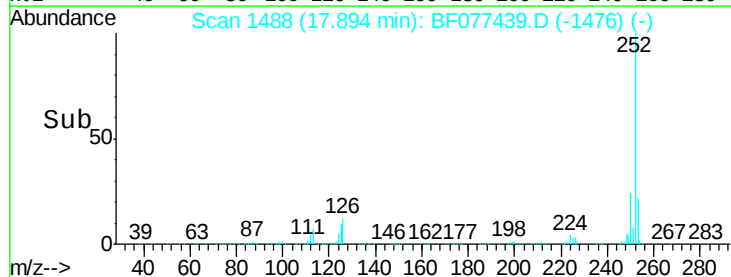
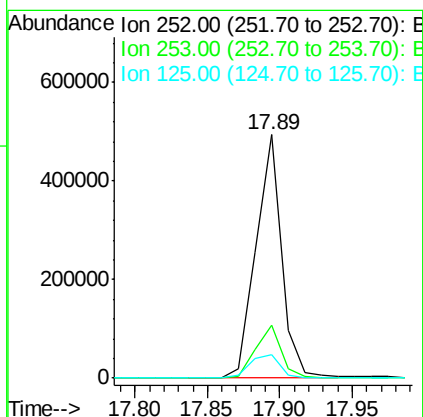
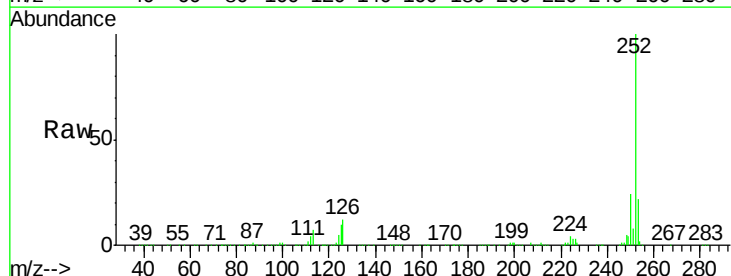
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMDS

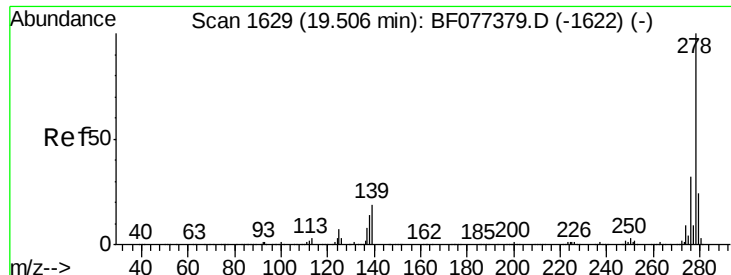
Tgt Ion:252 Resp: 564242
Ion Ratio Lower Upper
252 100
253 22.7 18.1 27.1
125 12.5 10.1 15.1



#89
Benzo(a)pyrene
Concen: 34.10 ng
RT: 17.89 min Scan# 1488
Delta R.T. 0.03 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion:252 Resp: 608123
Ion Ratio Lower Upper
252 100
253 21.7 18.2 27.2
125 9.8 8.3 12.5

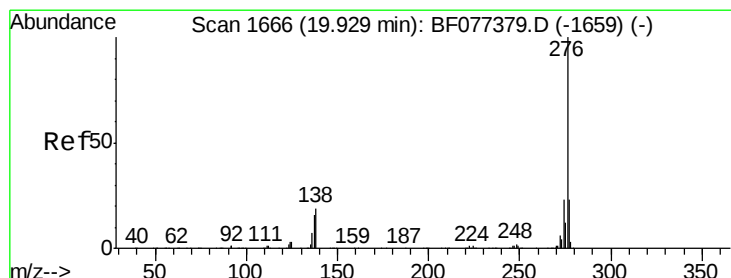
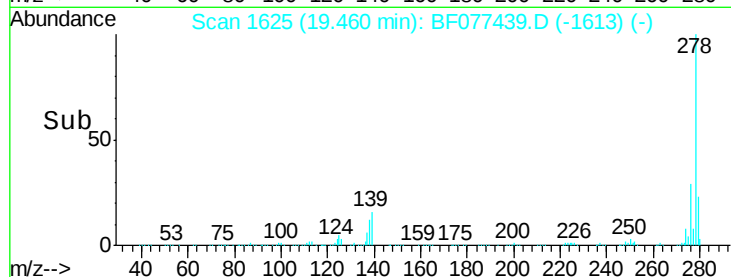
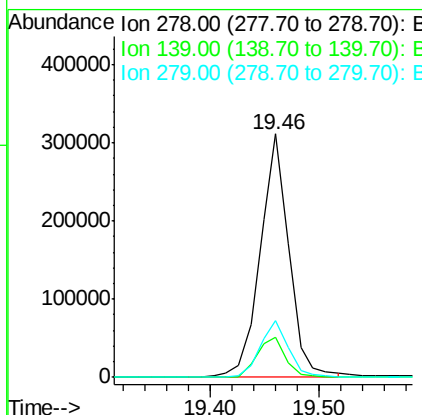
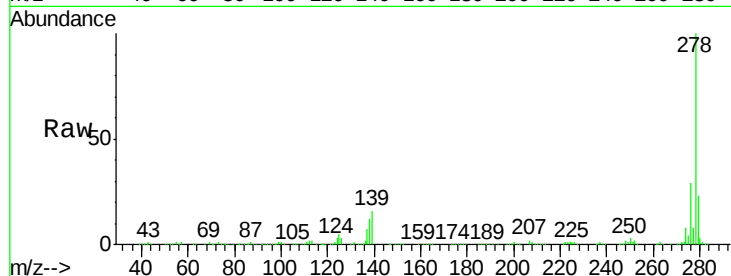




#90
Dibenzo(a,h)anthracene
Concen: 33.80 ng
RT: 19.46 min Scan# 1625
Delta R.T. 0.03 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGMSD

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.2	14.3	21.5
279	23.5	19.0	28.6



#91
Benzo(g,h,i)perylene
Concen: 33.22 ng
RT: 19.86 min Scan# 1660
Delta R.T. 0.03 min
Lab File: BF077439.D
Acq: 25 Feb 2015 17:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	23.8	20.5	30.7

