

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022415\
 Data File : BF077416.D
 Acq On : 24 Feb 2015 14:35
 Operator : IZ / TP
 Sample : G1336-01MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMS

Quant Time: Feb 25 00:35:09 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 00:25:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	45360	20.00	ng	0.00
21) Naphthalene-d8	8.88	136	185860	20.00	ng	-0.01
38) Acenaphthene-d10	11.05	164	93498	20.00	ng	-0.01
63) Phenanthrene-d10	12.90	188	182806	20.00	ng	0.00
75) Chrysene-d12	16.19	240	197282	20.00	ng	-0.03
86) Perylene-d12	17.96	264	211027	20.00	ng	-0.09

System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	153749	56.59	ng	-0.01
7) Phenol-d6	6.85	99	254197	72.76	ng	-0.01
23) Nitrobenzene-d5	7.98	82	138423	46.31	ng	-0.01
41) 2,4,6-Tribromophenol	12.03	330	43461	48.28	ng	-0.01
44) 2-Fluorobiphenyl	10.23	172	320290	53.41	ng	0.00
78) Terphenyl-d14	14.89	244	366293	43.41	ng	-0.01

Target Compounds						Qvalue
2) 1,4-Dioxane	2.25	88	25538	22.15	ng	# 83
3) Pyridine	3.00	79	53640	16.26	ng	94
4) n-Nitrosodimethylamine	2.91	42	28738	20.04	ng	98
6) Aniline	6.89	93	50748	10.51	ng	100
8) 2-Chlorophenol	7.02	128	63340	19.76	ng	99
10) Phenol	6.86	94	90661	21.87	ng	94
11) bis(2-Chloroethyl)ether	6.99	93	63130	21.19	ng	99
12) 1,3-Dichlorobenzene	7.22	146	71558	20.50	ng	99
13) 1,4-Dichlorobenzene	7.32	146	75883	21.37	ng	99
14) 1,2-Dichlorobenzene	7.50	146	71456	21.16	ng	98
15) Benzyl Alcohol	7.48	79	55641	20.95	ng	# 89
16) 2,2'-oxybis(1-Chloropropan	7.66	45	86356	20.28	ng	98
17) 2-Methylphenol	7.62	107	54044	21.57	ng	97
18) Hexachloroethane	7.93	117	24404	20.58	ng	98
19) n-Nitroso-di-n-propylamine	7.81	70	47925	21.60	ng	96
20) 3+4-Methylphenols	7.81	107	70473	21.36	ng	# 88
22) Acetophenone	7.80	105	92945	21.26	ng	94
24) Nitrobenzene	8.01	77	66359	21.10	ng	# 78
25) Isophorone	8.32	82	122319	20.63	ng	98
26) 2-Nitrophenol	8.41	139	23779	18.45	ng	96
27) 2,4-Dimethylphenol	8.46	122	57181	19.83	ng	98
28) bis(2-Chloroethoxy)methane	8.59	93	77103	20.58	ng	97
29) 2,4-Dichlorophenol	8.70	162	52570	19.42	ng	96
30) 1,2,4-Trichlorobenzene	8.81	180	63337	21.28	ng	99
31) Naphthalene	8.90	128	201255	21.65	ng	99
33) 4-Chloroaniline	8.98	127	51410	12.44	ng	98
34) Hexachlorobutadiene	9.06	225	34242	20.16	ng	100
35) Caprolactam	9.38	113	17824	21.57	ng	# 85
36) 4-Chloro-3-methylphenol	9.57	107	57265	21.04	ng	95
37) 2-Methylnaphthalene	9.77	142	139649	21.16	ng	99
39) 1,2,4,5-Tetrachlorobenzene	9.97	216	62633	23.35	ng	98
40) Hexachlorocyclopentadiene	9.95	237	50848	35.35	ng	98
42) 2,4,6-Trichlorophenol	10.11	196	20139	11.34	ng	97
43) 2,4,5-Trichlorophenol	10.16	196	34336	18.07	ng	96

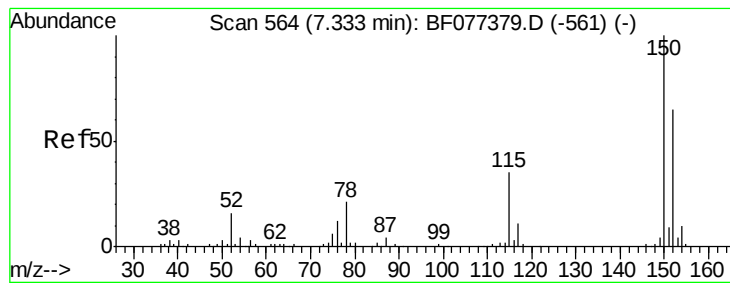
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022415\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1'-Biphenyl	10.35	154	166999	23.58	ng	98
46) 2-Chloronaphthalene	10.36	162	130649	23.52	ng	99
47) 2-Nitroaniline	10.49	65	34545	25.26	ng	98
48) Acenaphthylene	10.88	152	214821	24.43	ng	99
49) Dimethylphthalate	10.73	163	170164	25.89	ng	98
50) 2,6-Dinitrotoluene	10.80	165	31030	23.54	ng	# 52
51) Acenaphthene	11.09	154	124686	23.76	ng	100
52) 3-Nitroaniline	11.00	138	35905	23.63	ng	92
54) Dibenzofuran	11.31	168	191425	23.62	ng	96
55) 4-Nitrophenol	11.21	139	6578	5.38	ng	81
56) 2,4-Dinitrotoluene	11.30	165	40353	22.66	ng	93
57) Fluorene	11.73	166	154374	23.83	ng	99
58) 2,3,4,6-Tetrachlorophenol	11.46	232	10755	7.04	ng	# 96
59) Diethylphthalate	11.61	149	148659	22.94	ng	98
60) 4-Chlorophenyl-phenylether	11.75	204	67895	21.75	ng	95
61) 4-Nitroaniline	11.76	138	34985	24.02	ng	88
62) Azobenzene	11.94	77	156793	25.51	ng	91
64) 4,6-Dinitro-2-methylphenol	11.79	198	684	4.58	ng	# 1
65) n-Nitrosodiphenylamine	11.88	169	131645	21.70	ng	99
66) 4-Bromophenyl-phenylether	12.35	248	43443	20.29	ng	# 93
67) Hexachlorobenzene	12.41	284	47530	20.69	ng	# 88
68) Atrazine	12.56	200	41868	21.23	ng	97
69) Pentachlorophenol	12.65	266	6783	5.62	ng	98
70) Phenanthrene	12.92	178	230806	21.78	ng	99
71) Anthracene	12.99	178	233490	22.21	ng	98
72) Carbazole	13.20	167	220693	22.08	ng	97
73) Di-n-butylphthalate	13.64	149	235008	20.02	ng	98
74) Fluoranthene	14.40	202	251839	21.76	ng	96
76) Benzidine	14.58	184	106232	15.94	ng	98
77) Pyrene	14.68	202	264774	21.94	ng	99
79) Butylbenzylphthalate	15.51	149	102632	20.67	ng	# 85
80) Benzo(a)anthracene	16.18	228	254793	22.04	ng	99
81) 3,3'-Dichlorobenzidine	16.16	252	64719	15.28	ng	96
82) Chrysene	16.23	228	238524	21.97	ng	97
83) Bis(2-ethylhexyl)phthalate	16.24	149	140645	17.67	ng	# 95
84) Di-n-octyl phthalate	17.05	149	244200	18.37	ng	99
87) Benzo(b)fluoranthene	17.51	252	293910	23.95	ng	# 96
88) Benzo(k)fluoranthene	17.51	252	293910	24.44	ng	98
89) Benzo(a)pyrene	17.91	252	258247	22.10	ng	97
90) Dibenzo(a,h)anthracene	19.47	278	251809	22.59	ng	99
91) Benzo(g,h,i)perylene	19.88	276	257367	22.88	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.30 min Scan# 561

Delta R.T. 0.00 min

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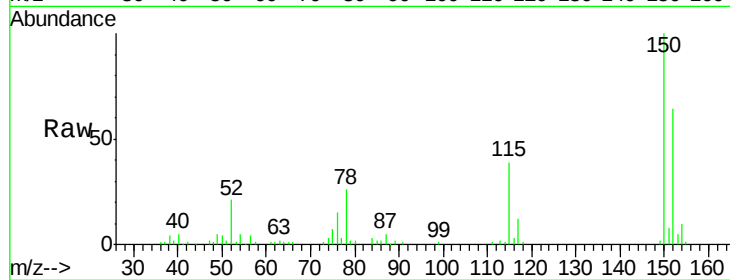
Tgt Ion:152 Resp: 45360

Ion Ratio Lower Upper

152 100

150 156.5 124.0 186.0

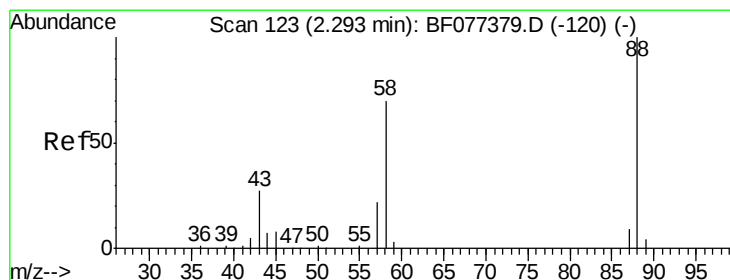
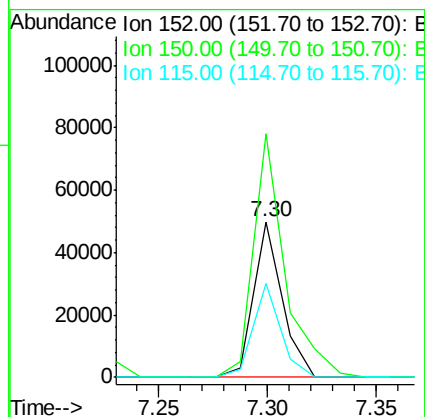
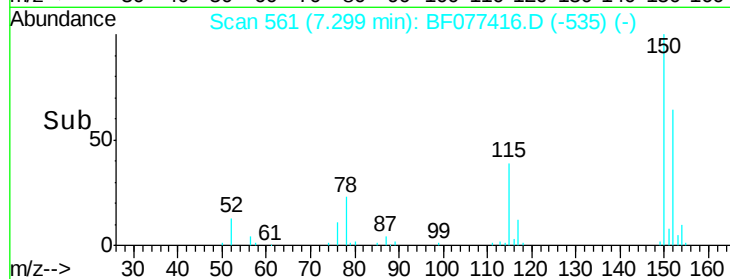
115 60.4 49.4 74.2



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: 22.15 ng

RT: 2.25 min Scan# 119

Delta R.T. 0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

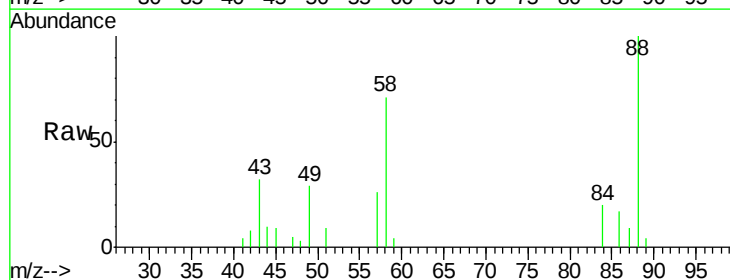
Tgt Ion: 88 Resp: 25538

Ion Ratio Lower Upper

88 100

58 60.5 62.1 93.1#

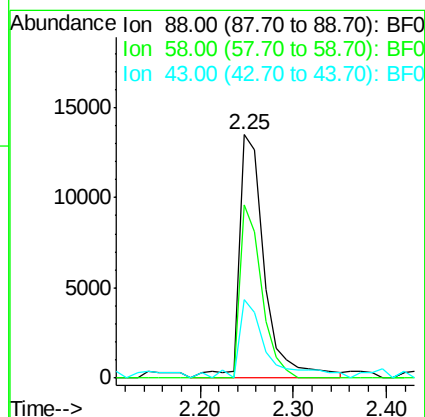
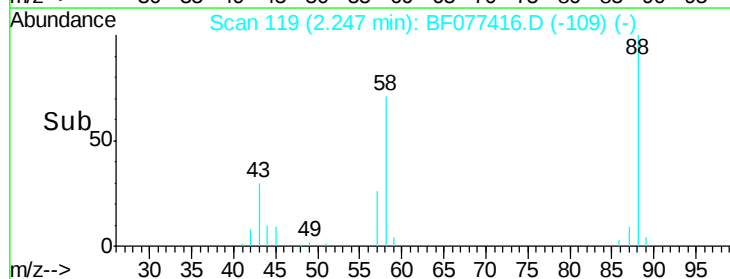
43 35.3 24.0 36.0



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: 16.26 ng

RT: 3.00 min Scan# 185

Delta R.T. 0.03 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

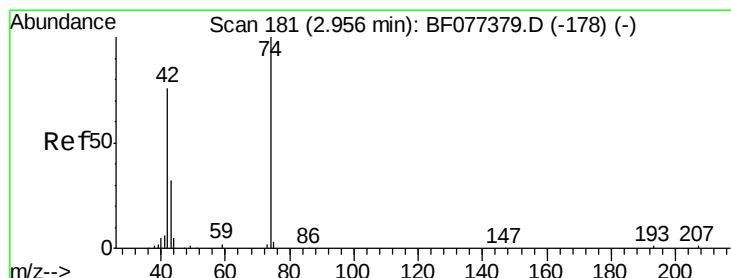
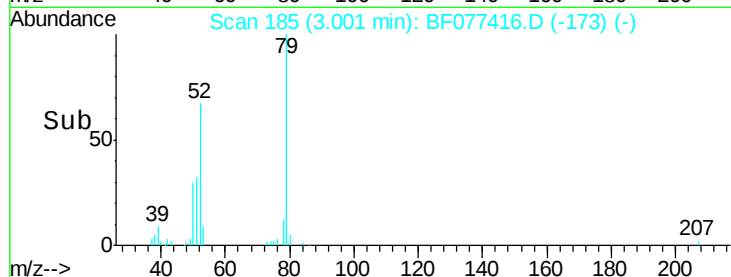
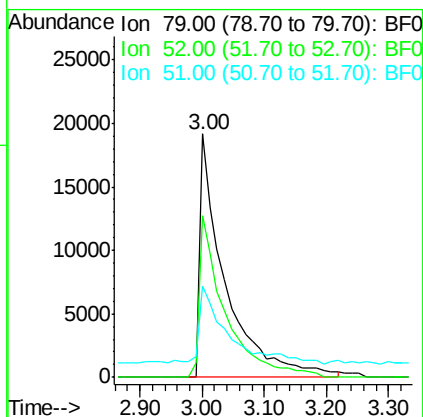
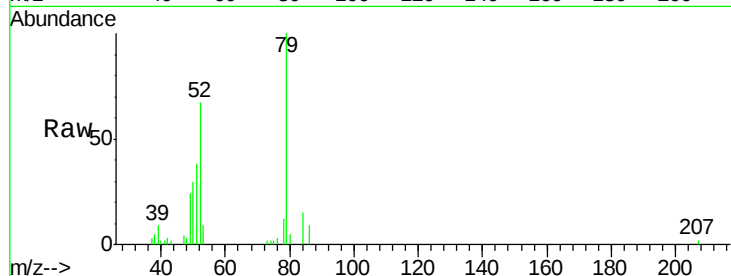
Tgt Ion: 79 Resp: 53640

Ion Ratio Lower Upper

79 100

52 66.6 57.7 86.5

51 37.6 28.5 42.7



#4

n-Nitrosodimethylamine

Concen: 20.04 ng

RT: 2.91 min Scan# 177

Delta R.T. 0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

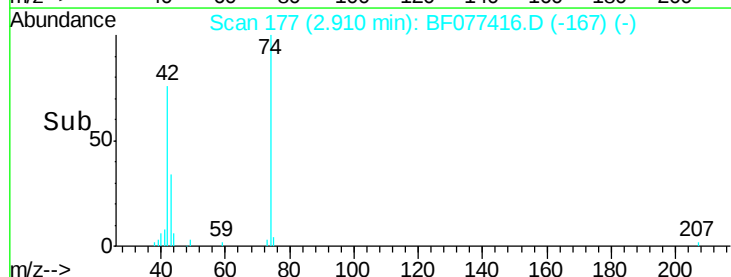
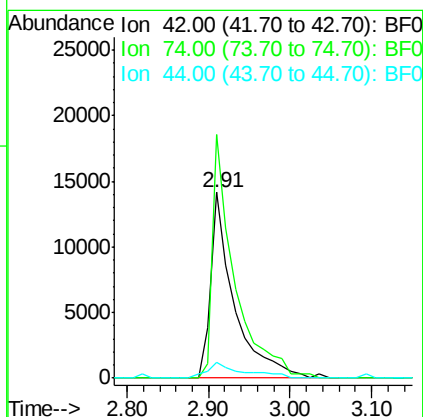
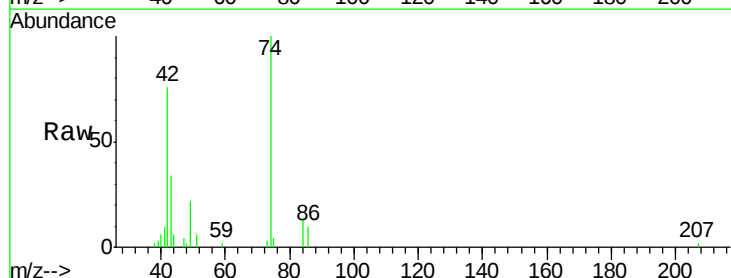
Tgt Ion: 42 Resp: 28738

Ion Ratio Lower Upper

42 100

74 131.0 107.1 160.7

44 8.2 6.7 10.1





#5

2-Fluorophenol

Concen: 56.59 ng

RT: 5.58 min Scan# 411

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

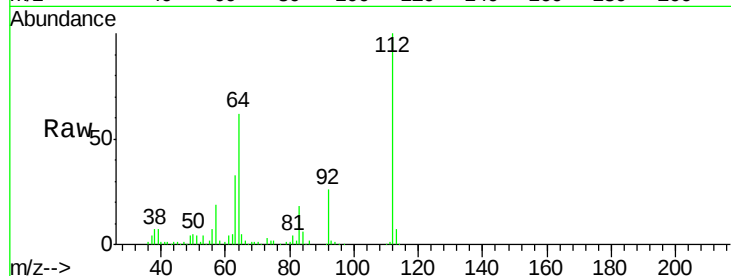
Tgt Ion: 112 Resp: 153749

Ion Ratio Lower Upper

112 100

64 62.5 48.5 72.7

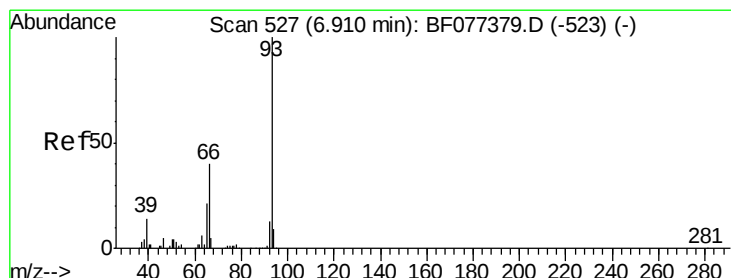
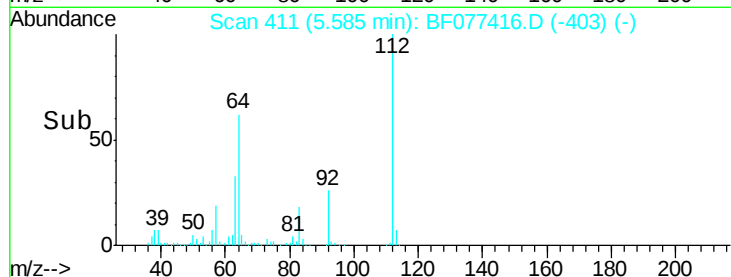
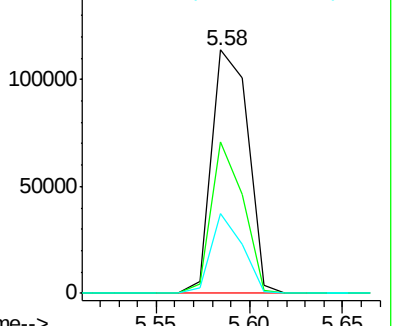
63 32.7 25.0 37.4



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 10.51 ng

RT: 6.89 min Scan# 525

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

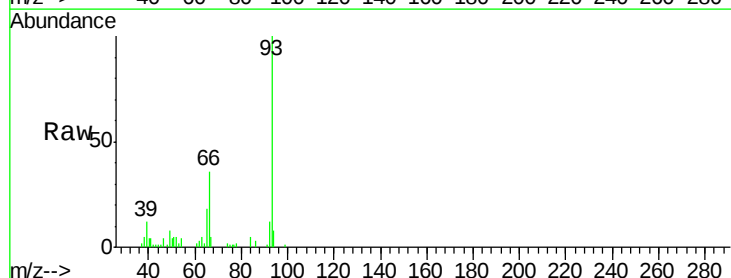
Tgt Ion: 93 Resp: 50748

Ion Ratio Lower Upper

93 100

66 36.2 29.1 43.7

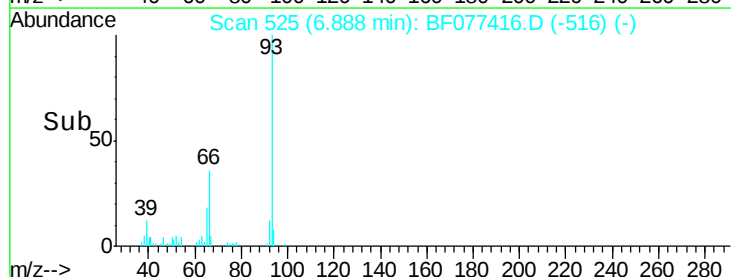
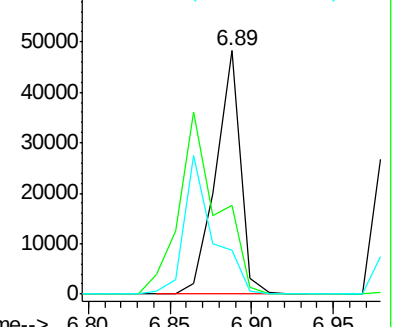
65 18.2 14.6 22.0

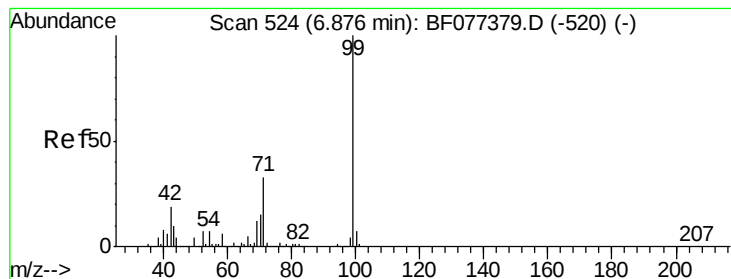


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 72.76 ng

RT: 6.85 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

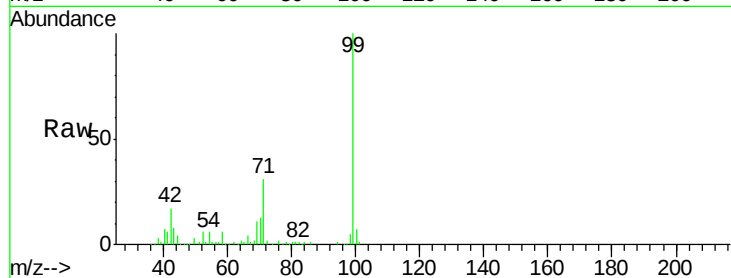
Tgt Ion: 99 Resp: 254197

Ion Ratio Lower Upper

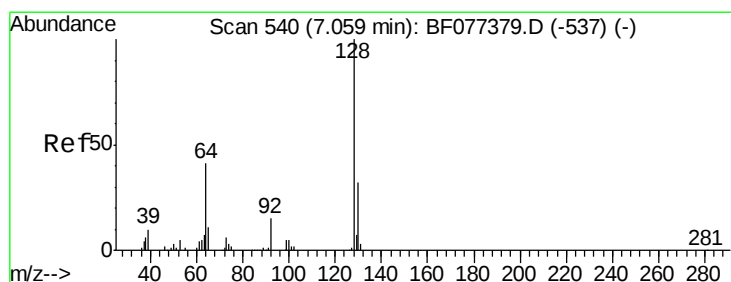
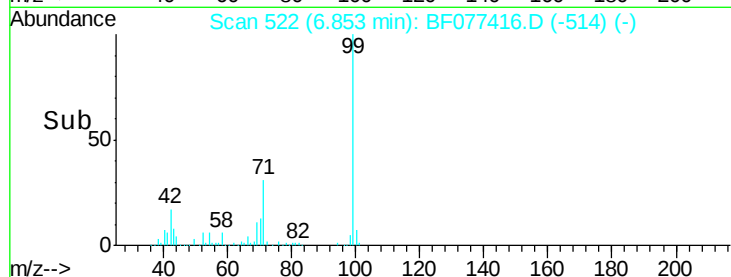
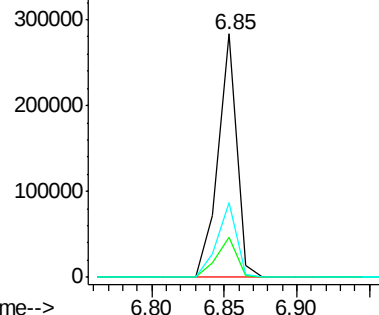
99 100

42 16.7 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: 19.76 ng

RT: 7.02 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

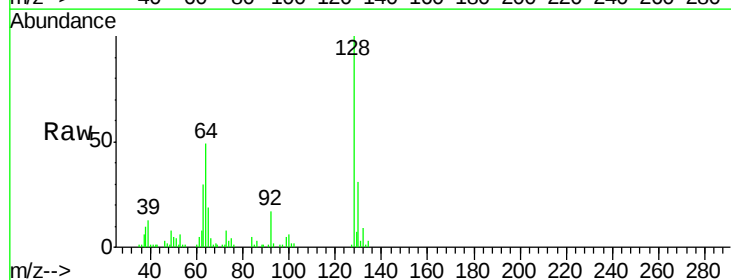
Tgt Ion: 128 Resp: 63340

Ion Ratio Lower Upper

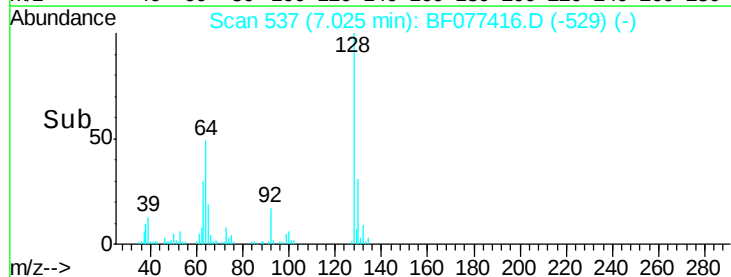
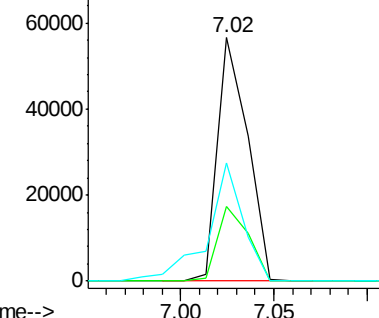
128 100

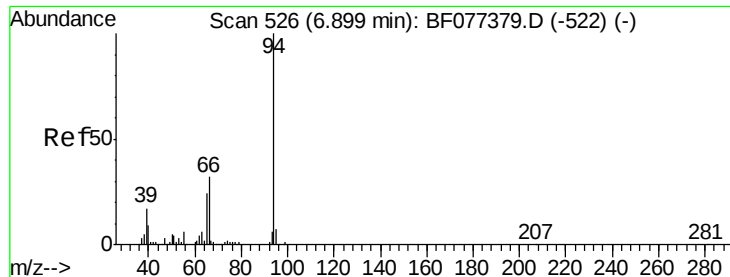
130 30.9 12.0 52.0

64 48.5 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: 21.87 ng

RT: 6.86 min Scan# 523

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

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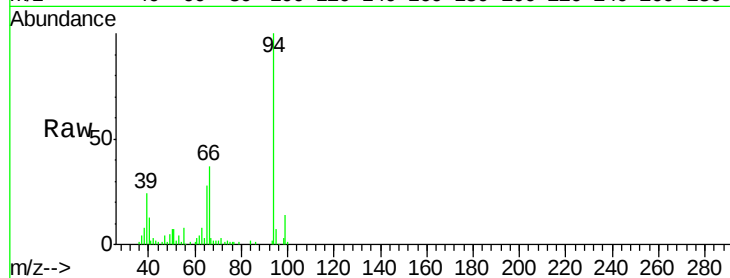
Tgt Ion: 94 Resp: 90661

Ion Ratio Lower Upper

94 100

65 28.3 5.7 45.7

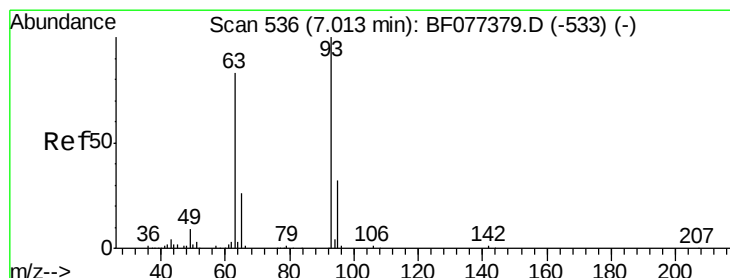
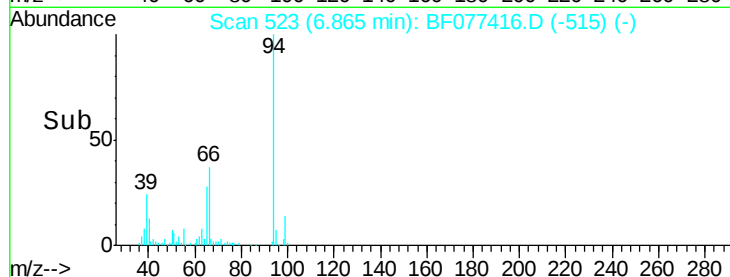
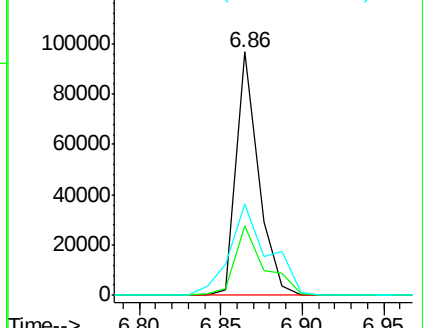
66 37.2 13.6 53.6



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: 21.19 ng

RT: 6.99 min Scan# 534

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

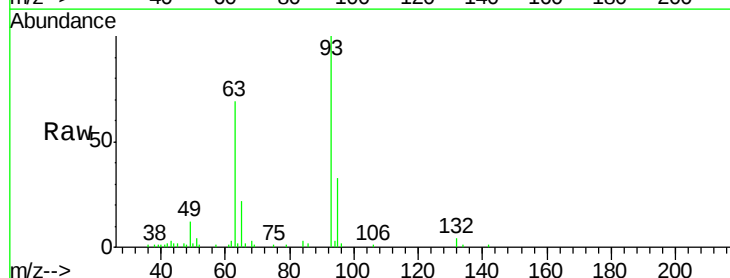
Tgt Ion: 93 Resp: 63130

Ion Ratio Lower Upper

93 100

63 68.6 48.7 88.7

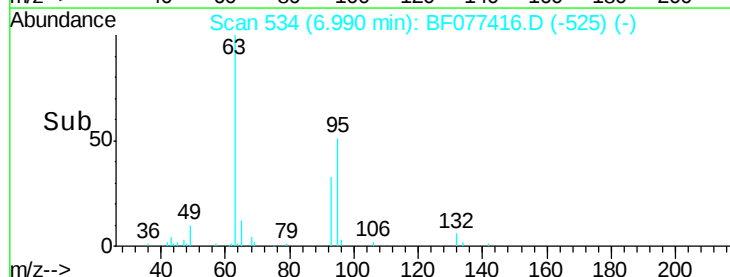
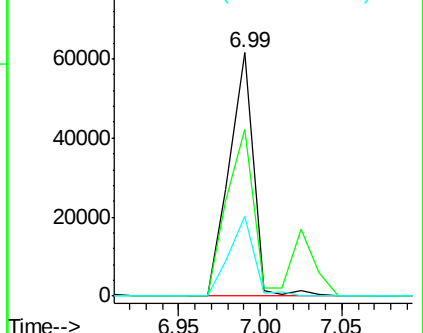
95 32.8 13.6 53.6

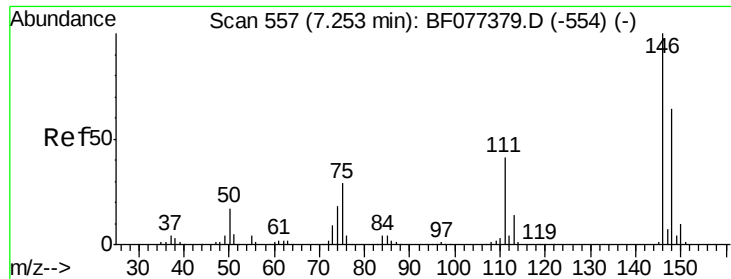


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

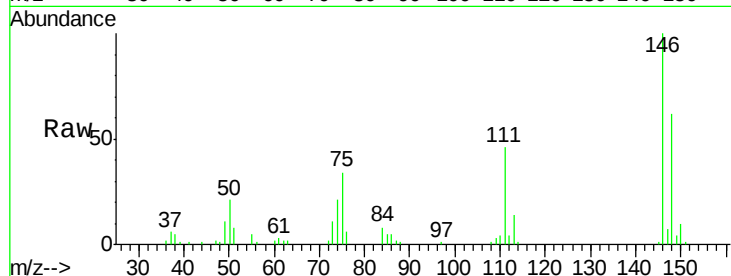




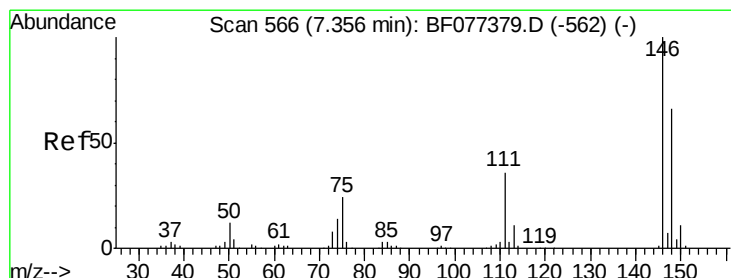
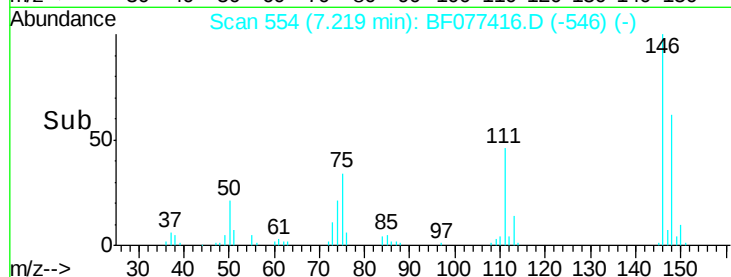
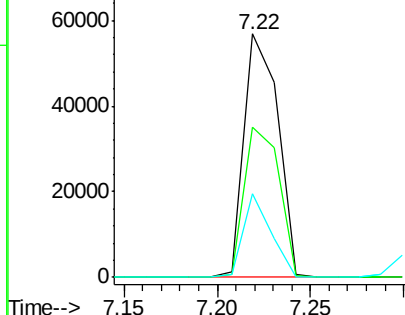
#12
 1,3-Dichlorobenzene
 Concen: 20.50 ng
 RT: 7.22 min Scan# 554
 Delta R.T. -0.01 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMS

Tgt Ion:146 Resp: 71558
 Ion Ratio Lower Upper
 146 100
 148 61.9 49.8 74.8
 75 34.2 28.2 42.4

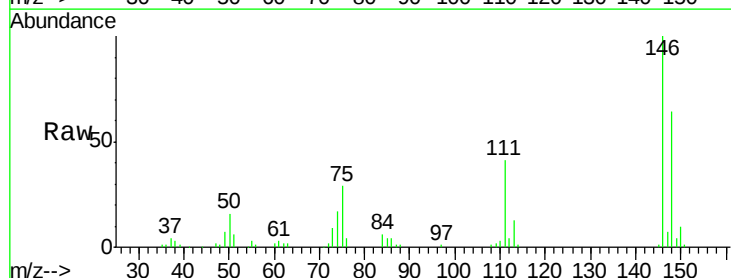


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): BF0

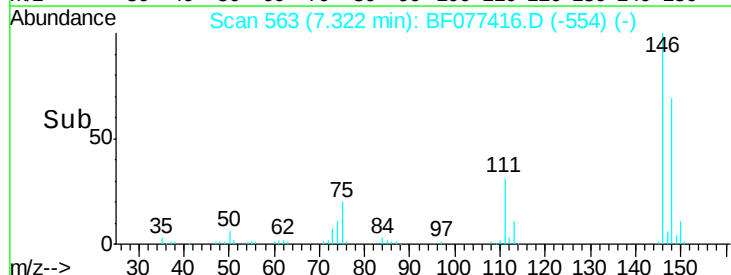
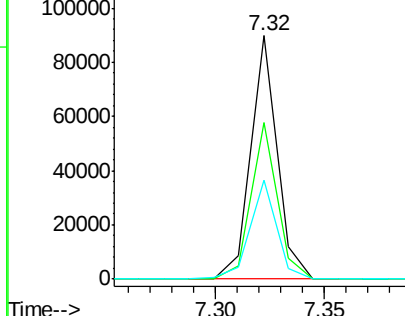


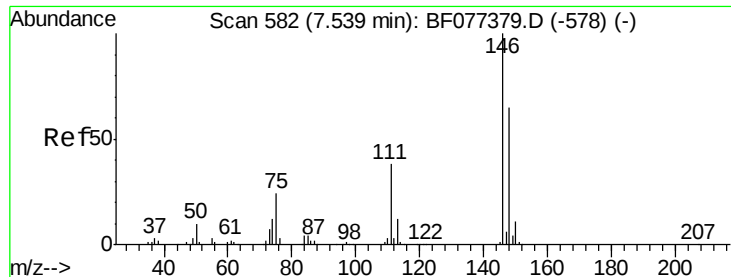
#13
 1,4-Dichlorobenzene
 Concen: 21.37 ng
 RT: 7.32 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

Tgt Ion:146 Resp: 75883
 Ion Ratio Lower Upper
 146 100
 148 64.3 52.0 78.0
 111 40.7 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: 21.16 ng

RT: 7.50 min Scan# 579

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

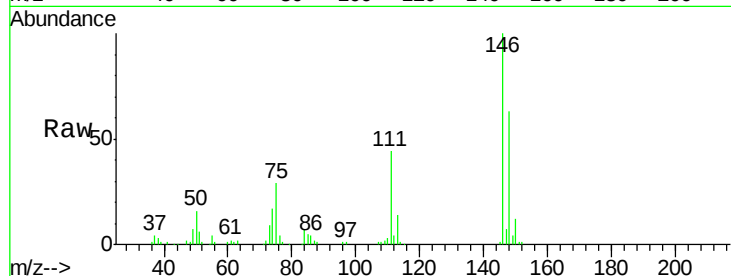
Tgt Ion:146 Resp: 71456

Ion Ratio Lower Upper

146 100

148 63.1 51.6 77.4

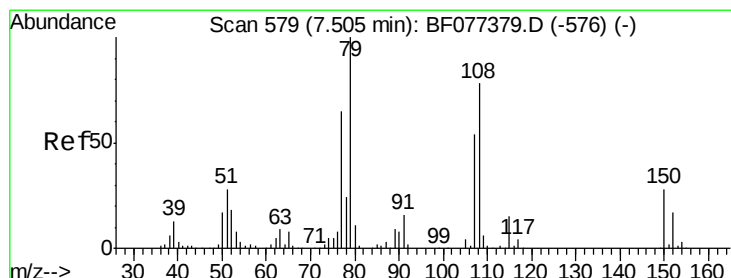
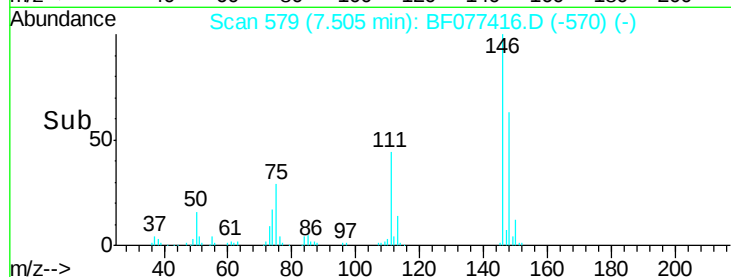
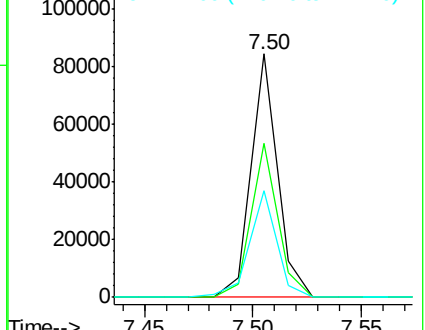
111 43.6 34.2 51.2



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



#15

Benzyl Alcohol

Concen: 20.95 ng

RT: 7.48 min Scan# 577

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

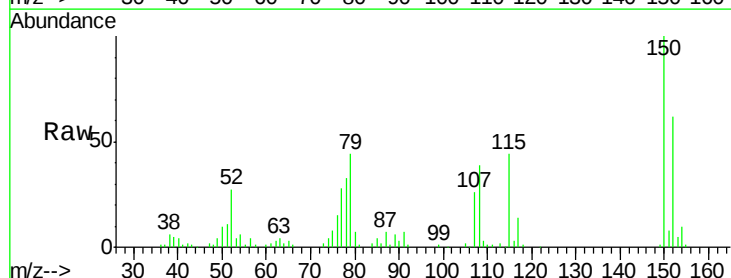
Tgt Ion: 79 Resp: 55641

Ion Ratio Lower Upper

79 100

108 90.0 58.3 87.5#

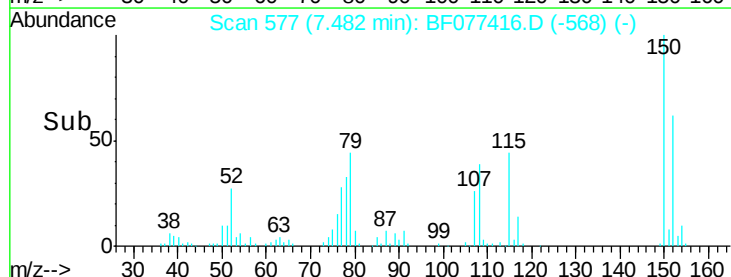
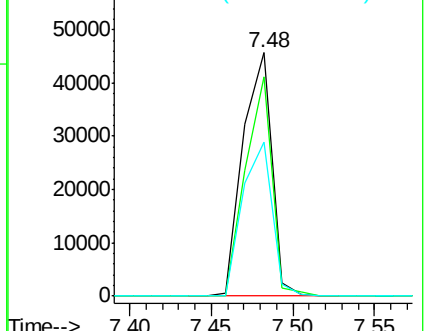
77 63.2 51.3 76.9

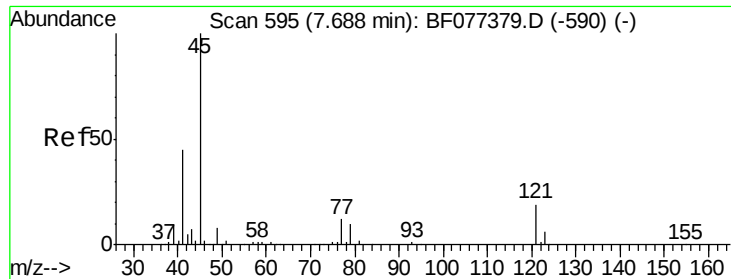


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

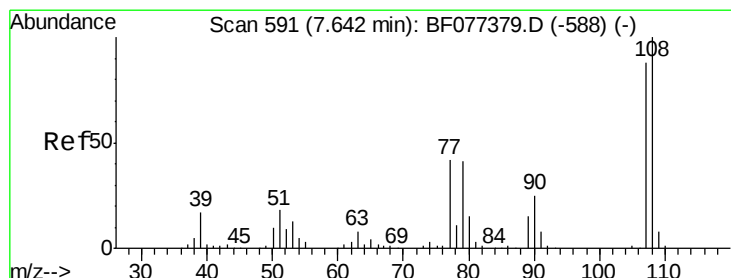
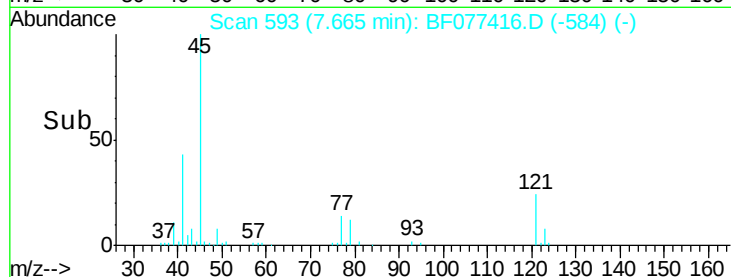
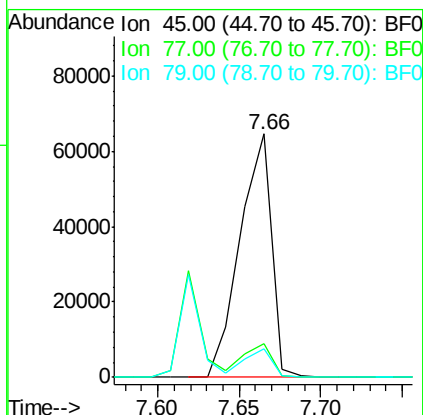
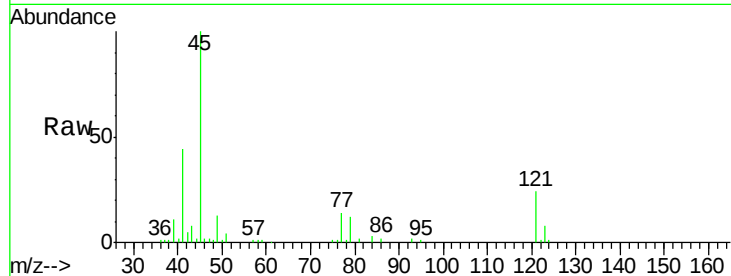




#16
 2,2'-oxybis(1-Chloropropane)
 Concen: 20.28 ng
 RT: 7.66 min Scan# 593
 Delta R.T. 0.00 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

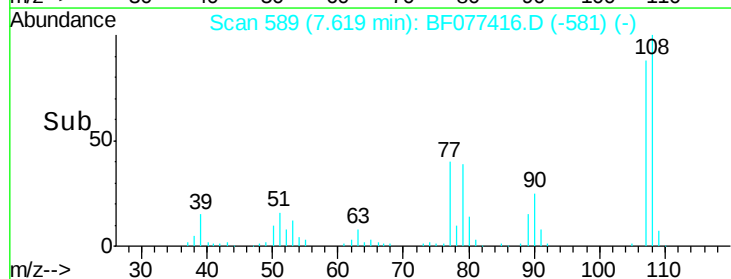
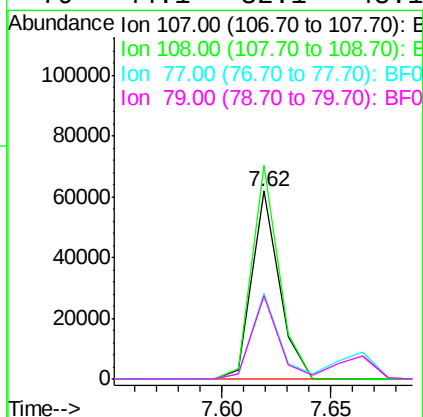
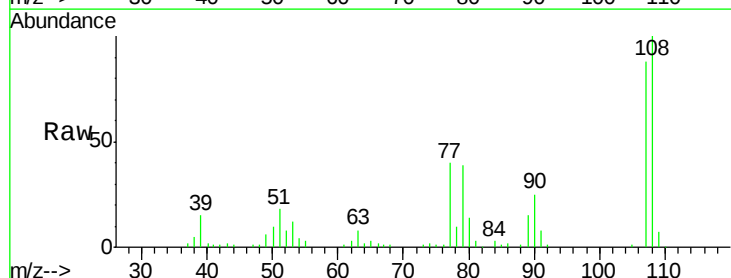
Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMS

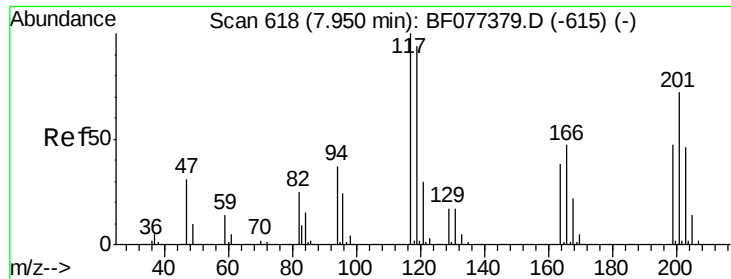
Tgt Ion: 45 Resp: 86356
 Ion Ratio Lower Upper
 45 100
 77 13.8 0.0 34.6
 79 12.0 0.0 31.5



#17
 2-Methylphenol
 Concen: 21.57 ng
 RT: 7.62 min Scan# 589
 Delta R.T. -0.01 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

Tgt Ion: 107 Resp: 54044
 Ion Ratio Lower Upper
 107 100
 108 113.8 91.2 136.8
 77 45.8 33.6 50.4
 79 44.1 32.1 48.1

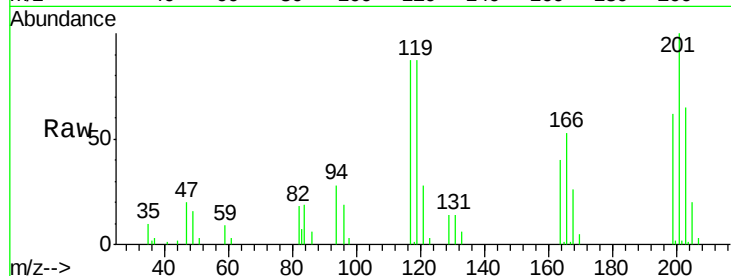




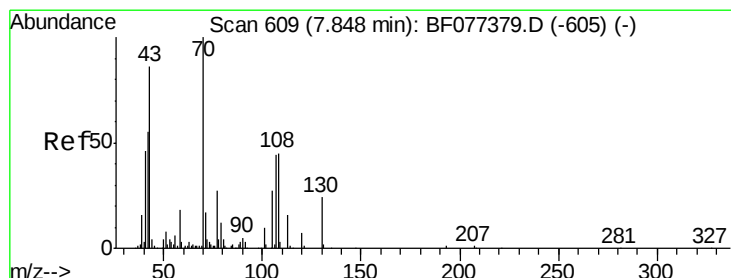
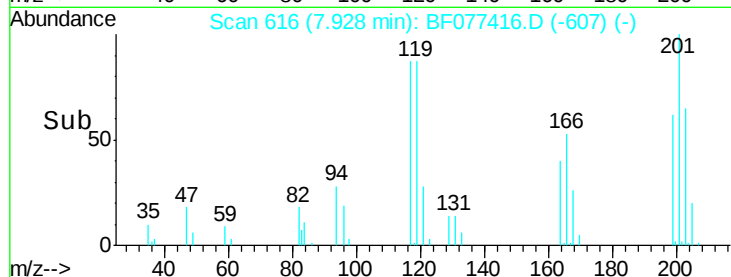
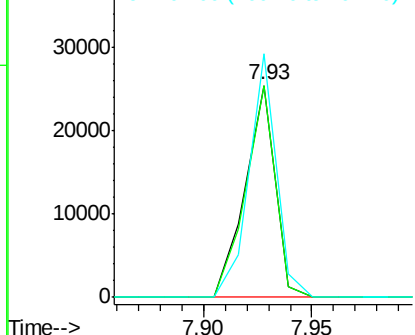
#18
Hexachloroethane
Concen: 20.58 ng
RT: 7.93 min Scan# 616
Delta R.T. 0.00 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMS

Tgt Ion: 117 Resp: 24404
Ion Ratio Lower Upper
117 100
119 99.7 77.8 116.8
201 114.8 90.6 136.0



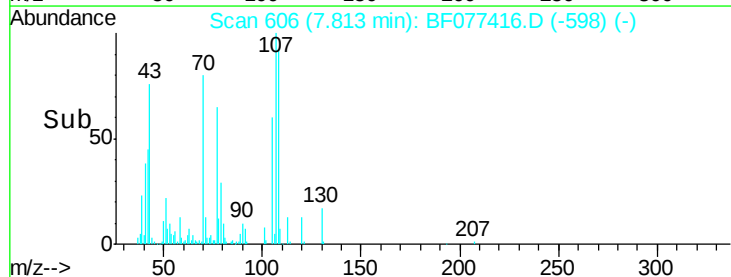
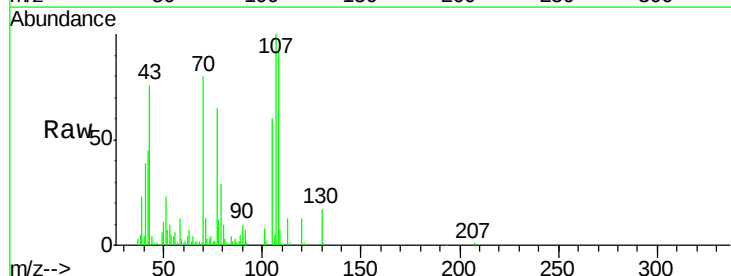
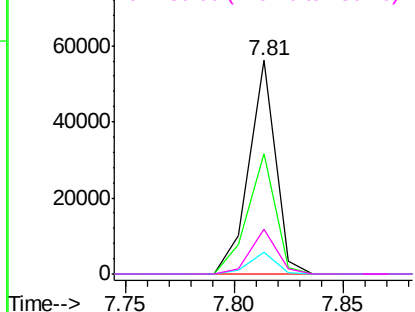
Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

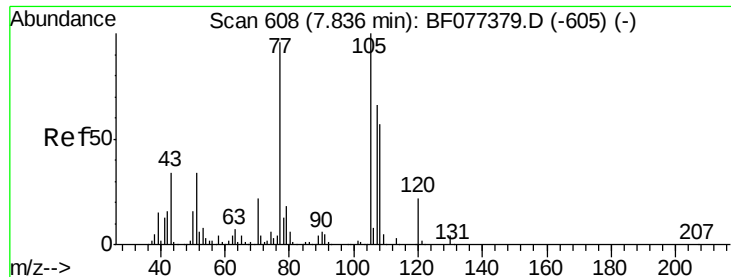


#19
n-Nitroso-di-n-propylamine
Concen: 21.60 ng
RT: 7.81 min Scan# 606
Delta R.T. -0.01 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

Tgt Ion: 70 Resp: 47925
Ion Ratio Lower Upper
70 100
42 56.5 48.3 72.5
101 10.0 7.5 11.3
130 21.0 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

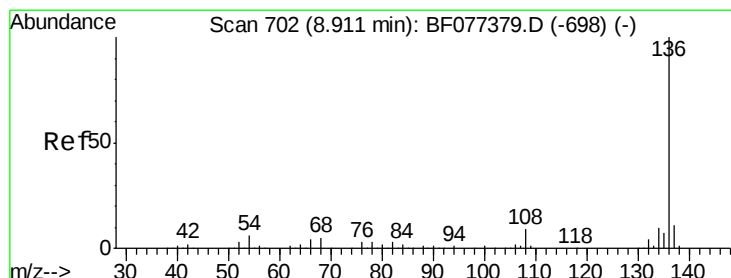
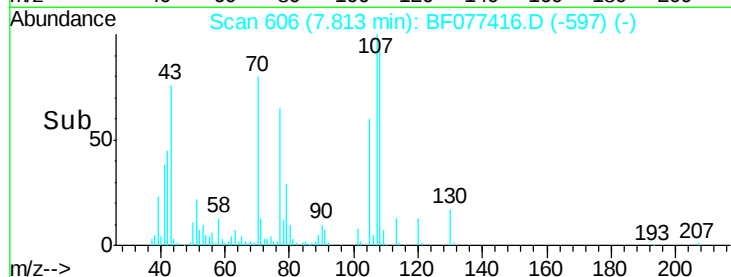
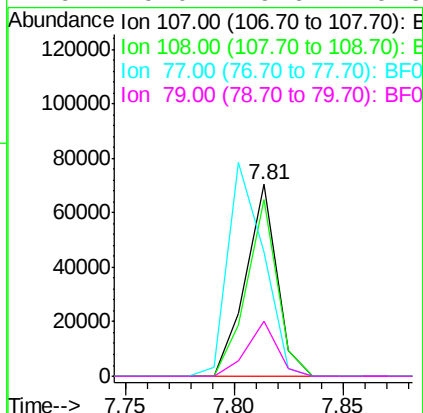
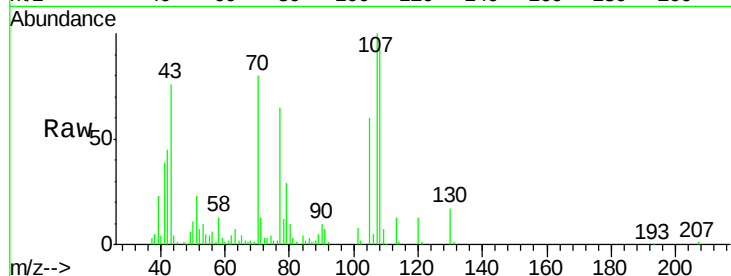




#20
3+4-Methylphenols
Concen: 21.36 ng
RT: 7.81 min Scan# 606
Delta R.T. 0.00 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

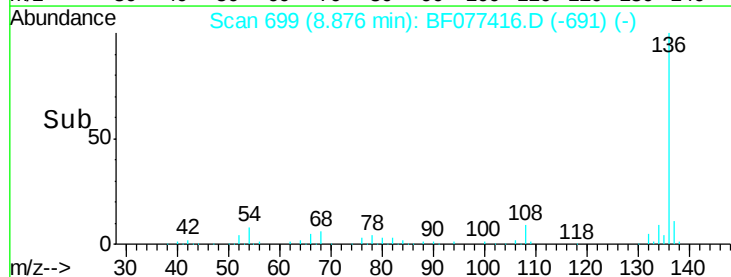
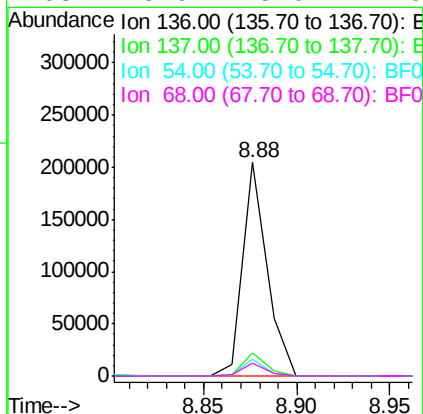
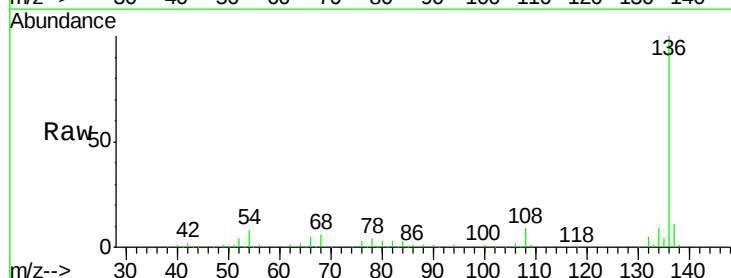
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMS

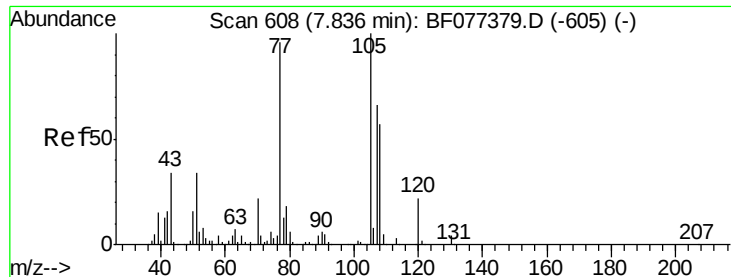
Tgt Ion:107 Resp: 70473
Ion Ratio Lower Upper
107 100
108 92.0 76.8 116.8
77 64.6 65.8 105.8#
79 29.0 9.6 49.6



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.88 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

Tgt Ion:136 Resp: 185860
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.0 6.2 9.4
68 5.9 5.0 7.6





#22

Acetophenone

Concen: 21.26 ng

RT: 7.80 min Scan# 605

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

Tgt Ion:105 Resp: 92945

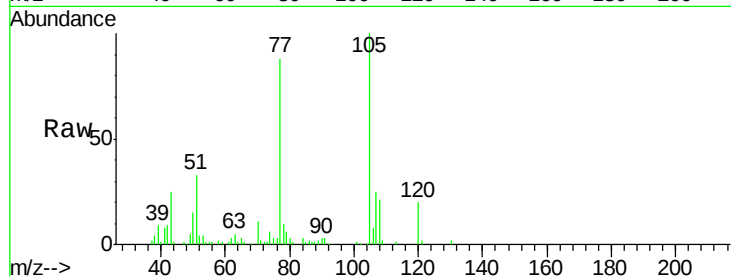
Ion Ratio Lower Upper

105 100

71 2.0 1.7 2.5

51 33.1 30.7 46.1

120 20.3 16.7 25.1

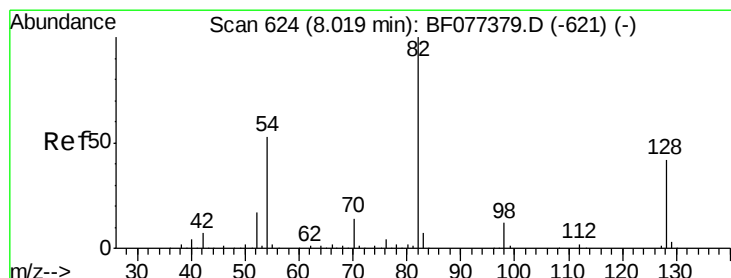
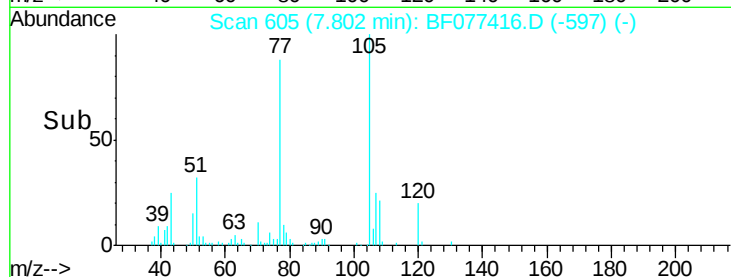
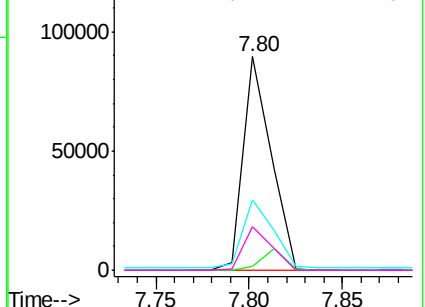


Abundance Ion 105.00 (104.70 to 105.70): E

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: 46.31 ng

RT: 7.98 min Scan# 621

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

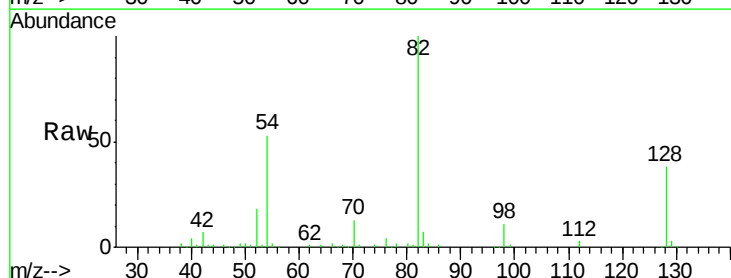
Tgt Ion: 82 Resp: 138423

Ion Ratio Lower Upper

82 100

128 37.7 43.8 65.8#

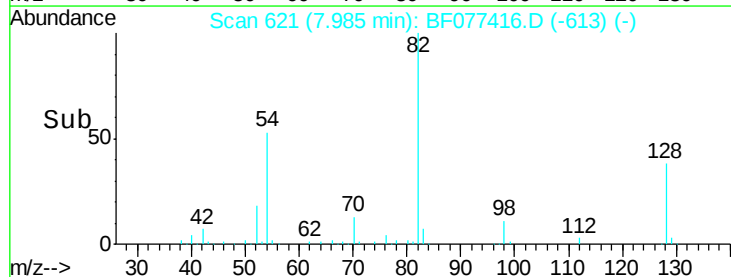
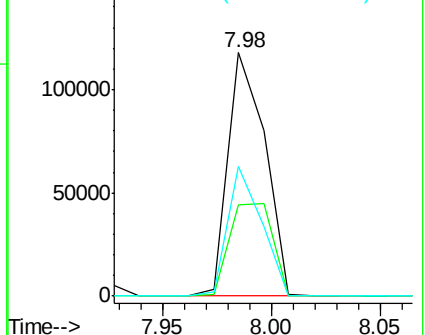
54 53.1 36.7 55.1

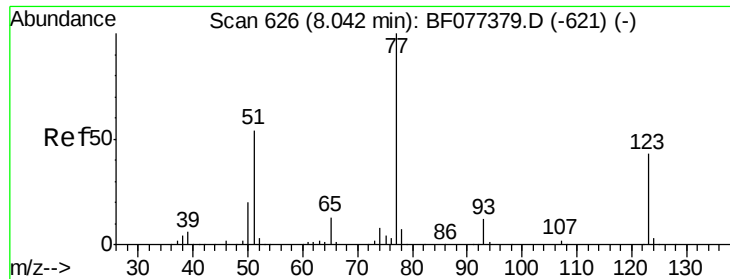


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 21.10 ng

RT: 8.01 min Scan# 623

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

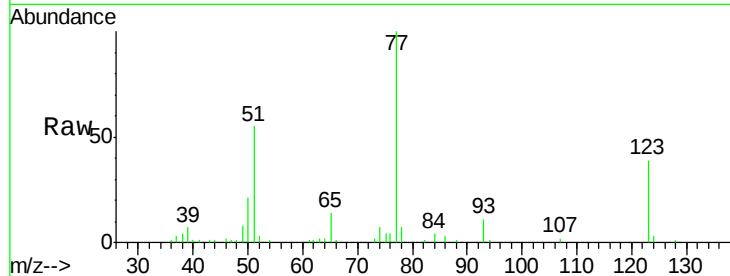
Tgt Ion: 77 Resp: 66359

Ion Ratio Lower Upper

77 100

123 38.6 45.9 68.9#

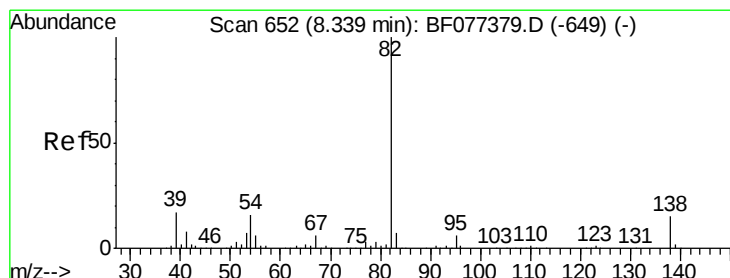
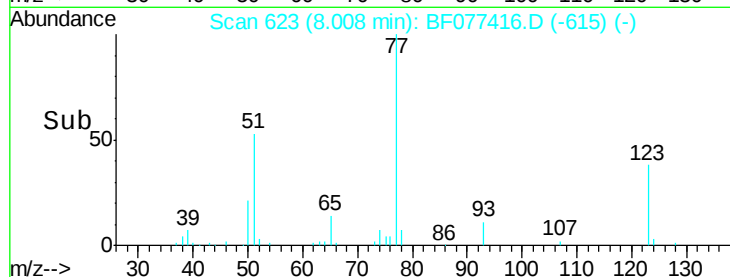
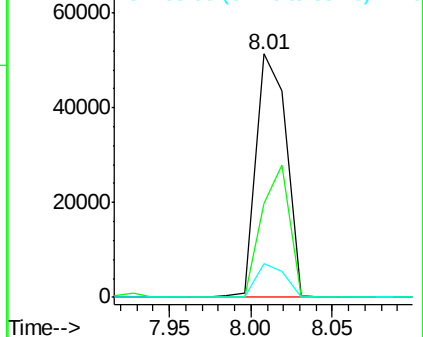
65 13.8 9.5 14.3



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: 20.63 ng

RT: 8.32 min Scan# 650

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

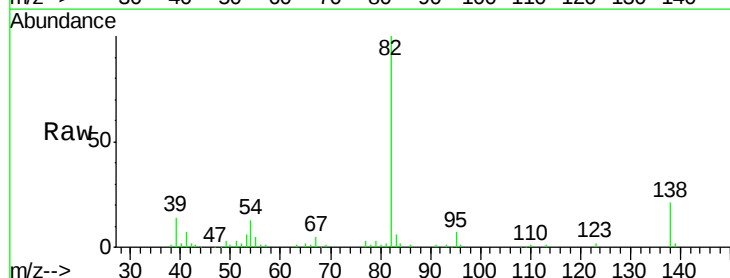
Tgt Ion: 82 Resp: 122319

Ion Ratio Lower Upper

82 100

95 7.2 5.4 8.2

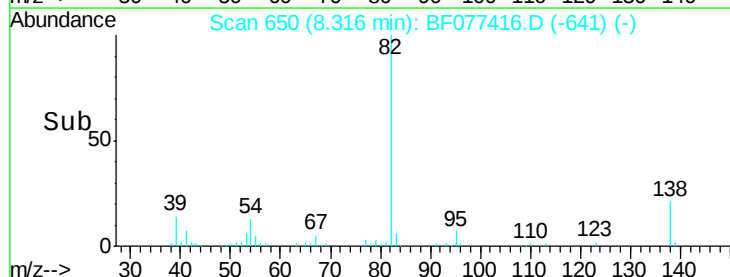
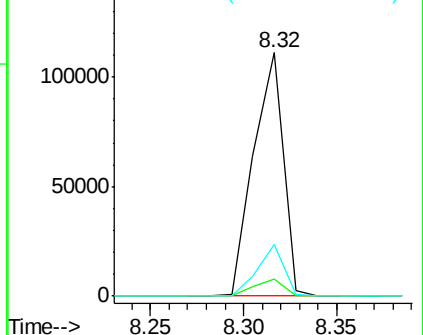
138 21.3 16.3 24.5

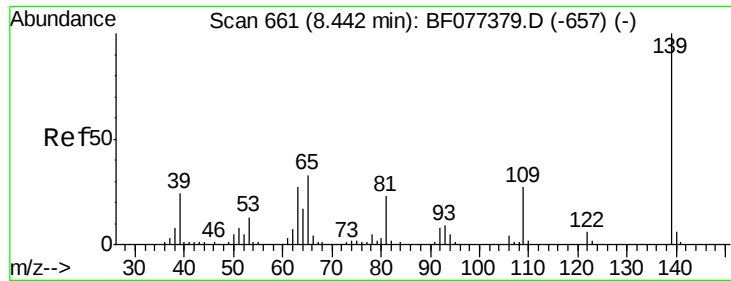


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

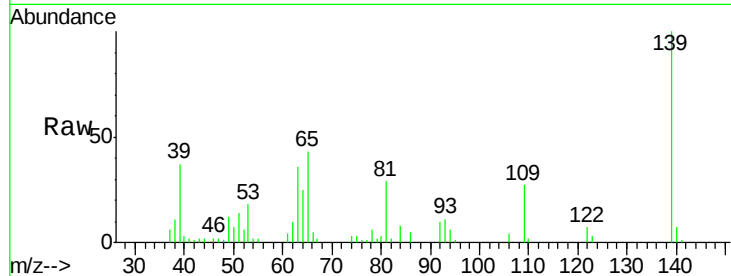




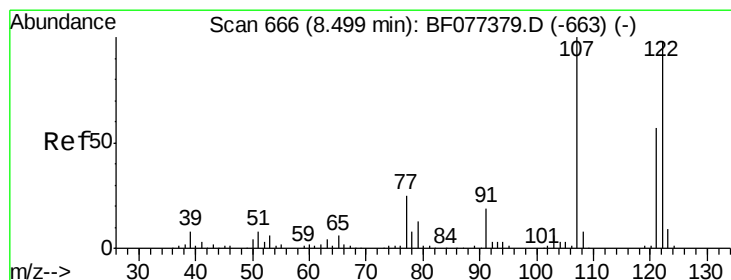
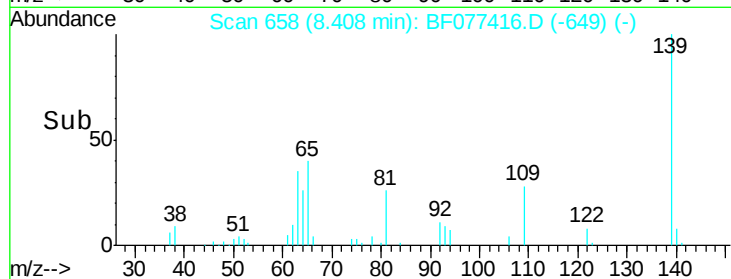
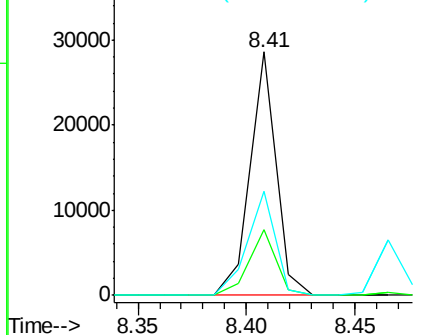
#26
 2-Nitrophenol
 Concen: 18.45 ng
 RT: 8.41 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

Instrument :
 BNA_F
 ClientSampleId :
 DRILL-CUTTINGSMS

Tgt Ion:139 Resp: 23779
 Ion Ratio Lower Upper
 139 100
 109 27.1 22.6 34.0
 65 42.6 36.4 54.6

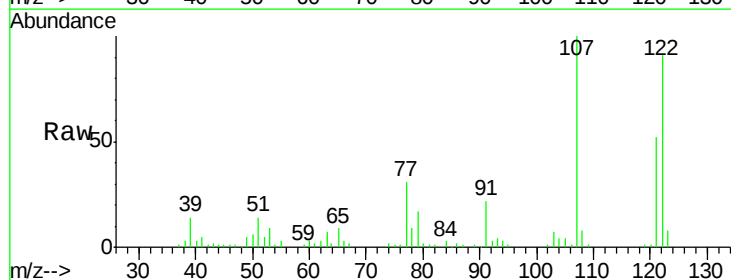


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): E

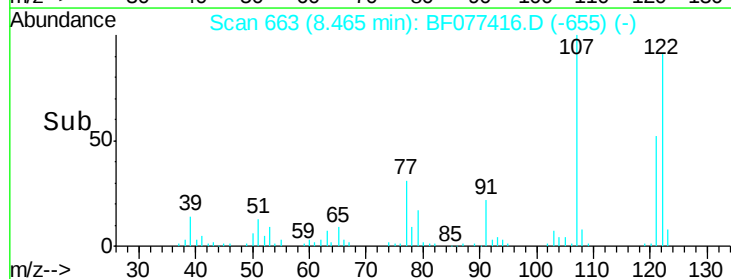
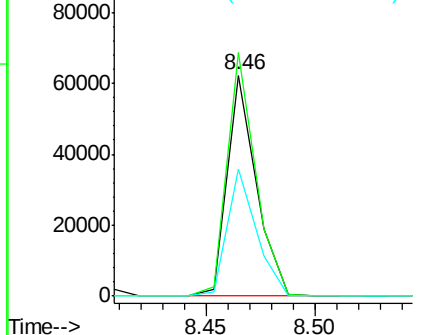


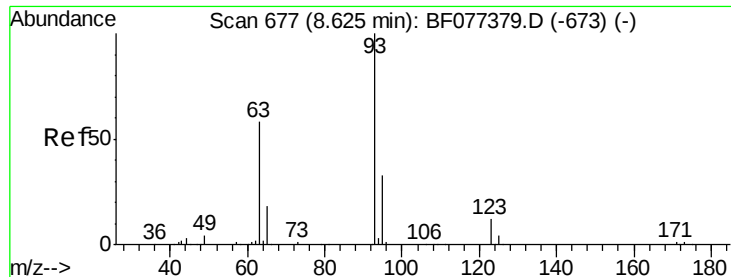
#27
 2,4-Dimethylphenol
 Concen: 19.83 ng
 RT: 8.46 min Scan# 663
 Delta R.T. -0.01 min
 Lab File: BF077416.D
 Acq: 24 Feb 2015 14:35

Tgt Ion:122 Resp: 57181
 Ion Ratio Lower Upper
 122 100
 107 110.1 86.6 130.0
 121 57.5 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

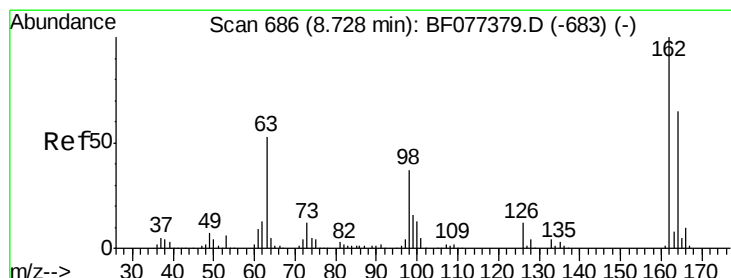
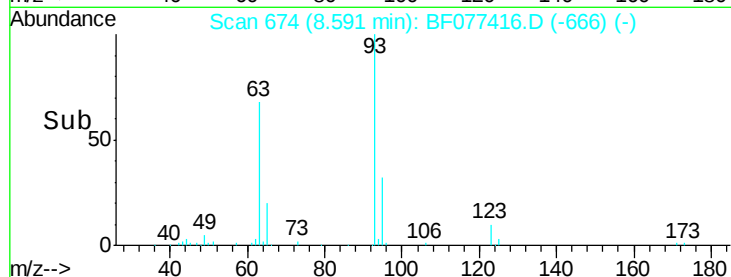
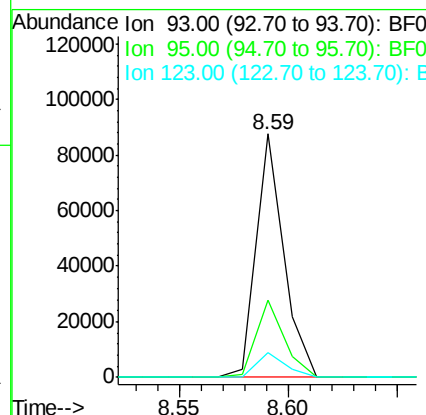
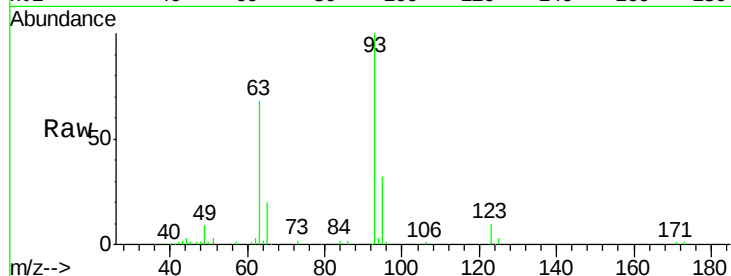




#28
bis(2-Chloroethoxy)methane
Concen: 20.58 ng
RT: 8.59 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

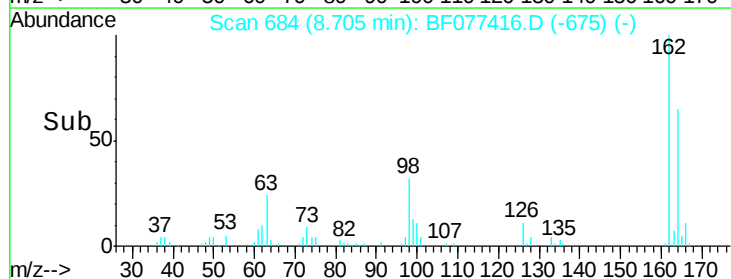
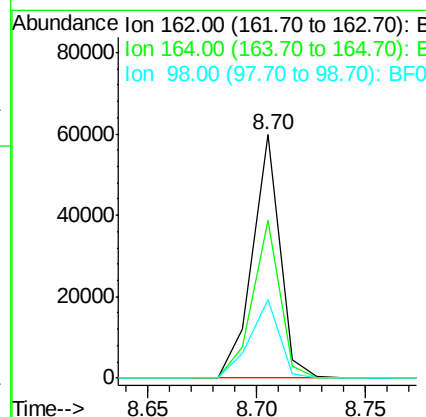
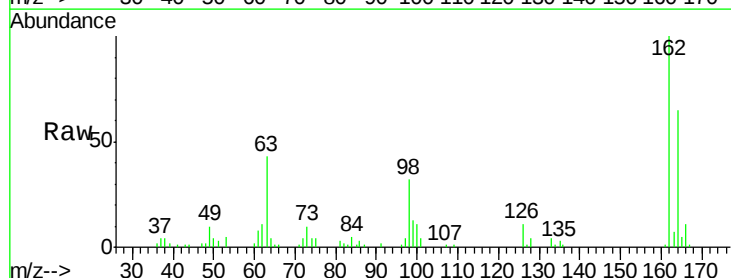
Instrument :
BNA_F
ClientSampleId :
DRILL-CUTTINGSMS

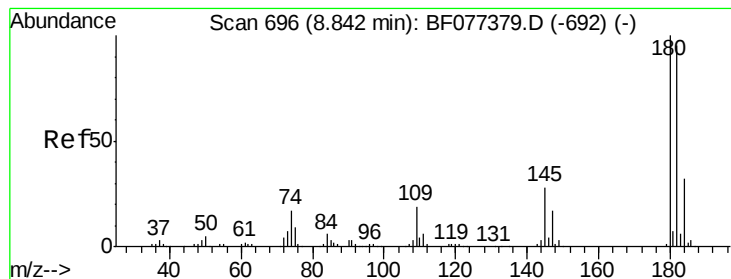
Tgt Ion: 93 Resp: 77103
Ion Ratio Lower Upper
93 100
95 31.6 26.4 39.6
123 9.9 8.7 13.1



#29
2,4-Dichlorophenol
Concen: 19.42 ng
RT: 8.70 min Scan# 684
Delta R.T. 0.00 min
Lab File: BF077416.D
Acq: 24 Feb 2015 14:35

Tgt Ion: 162 Resp: 52570
Ion Ratio Lower Upper
162 100
164 64.9 46.4 86.4
98 32.1 6.9 46.9





#30

1,2,4-Trichlorobenzene

Concen: 21.28 ng

RT: 8.81 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

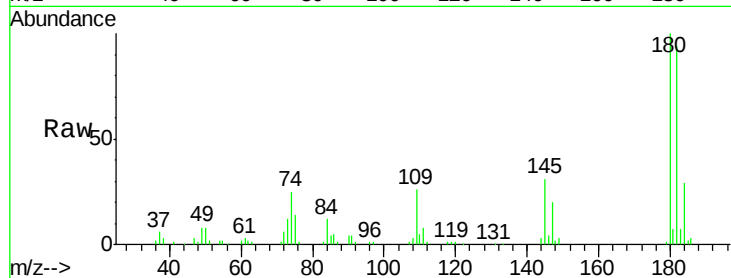
Tgt Ion:180 Resp: 63337

Ion Ratio Lower Upper

180 100

182 94.4 76.2 114.4

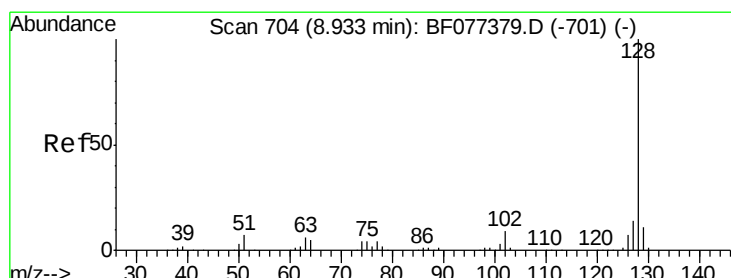
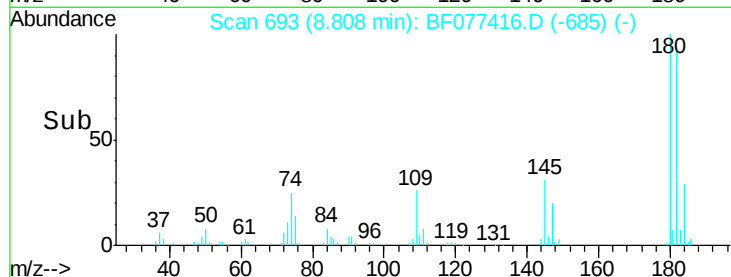
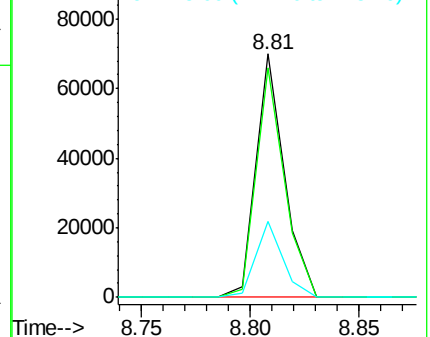
145 31.1 24.5 36.7



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: 21.65 ng

RT: 8.90 min Scan# 701

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

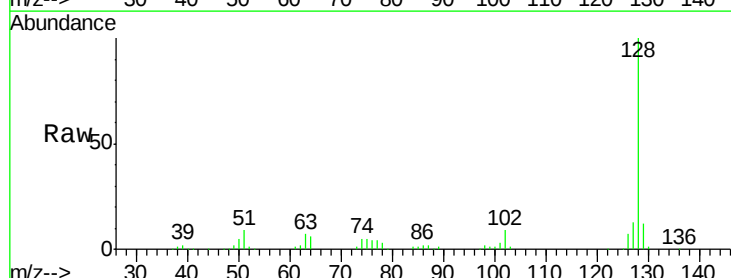
Tgt Ion:128 Resp: 201255

Ion Ratio Lower Upper

128 100

129 11.8 9.4 14.0

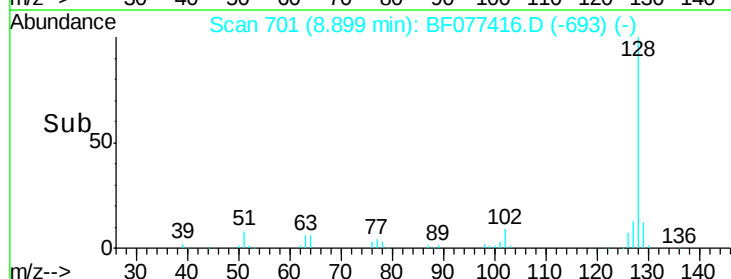
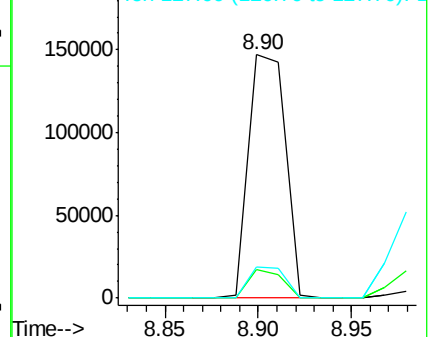
127 12.7 10.6 15.8

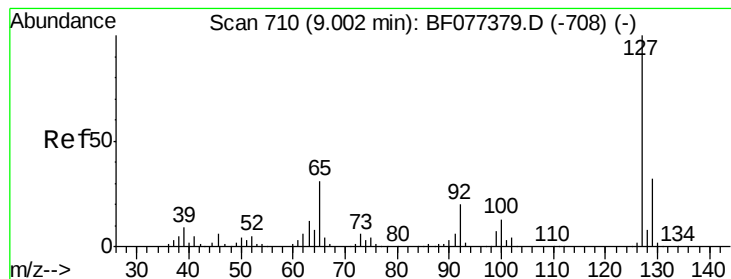


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#33

4-Chloroaniline

Concen: 12.44 ng

RT: 8.98 min Scan# 708

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

Tgt Ion:127 Resp: 51410

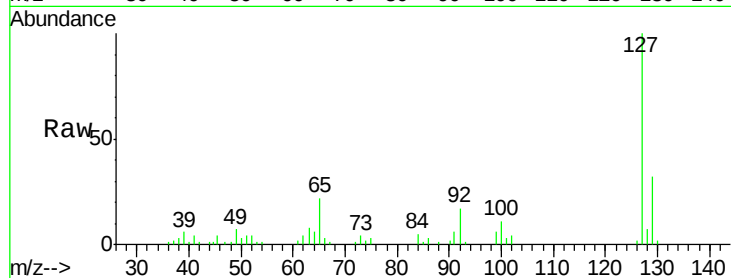
Ion Ratio Lower Upper

127 100

129 32.0 26.9 40.3

65 21.9 16.7 25.1

92 16.5 12.5 18.7

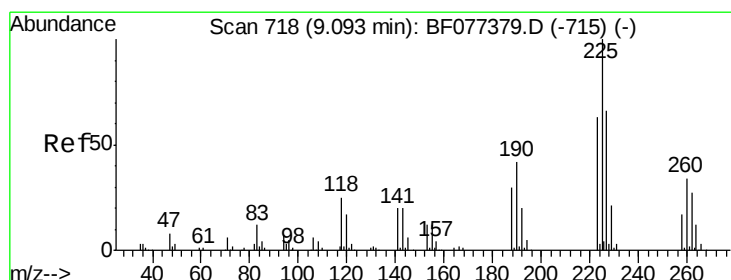
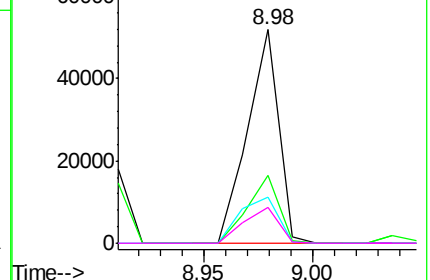
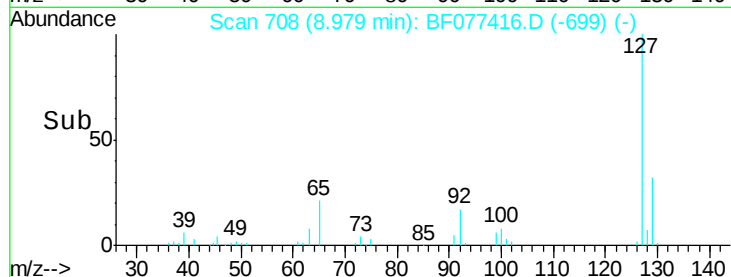


Abundance Ion 127.00 (126.70 to 127.70): E

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: 20.16 ng

RT: 9.06 min Scan# 715

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

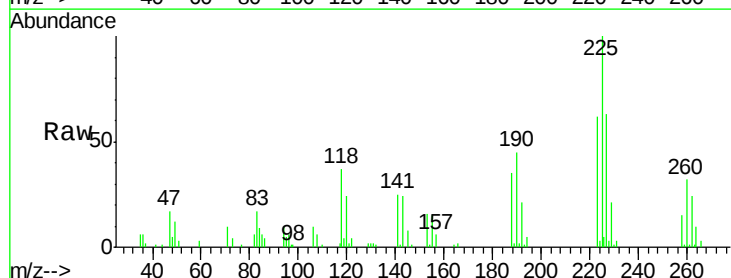
Tgt Ion:225 Resp: 34242

Ion Ratio Lower Upper

225 100

223 62.0 49.5 74.3

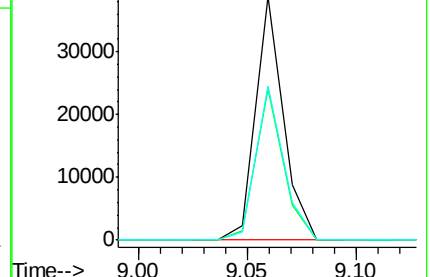
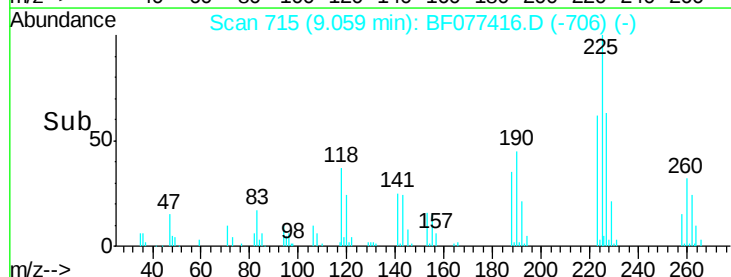
227 63.2 50.5 75.7

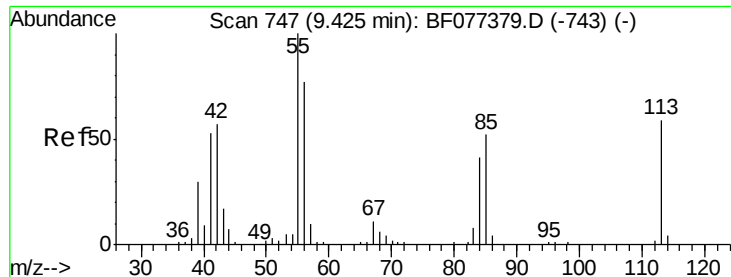


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 21.57 ng

RT: 9.38 min Scan# 743

Delta R.T. -0.05 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

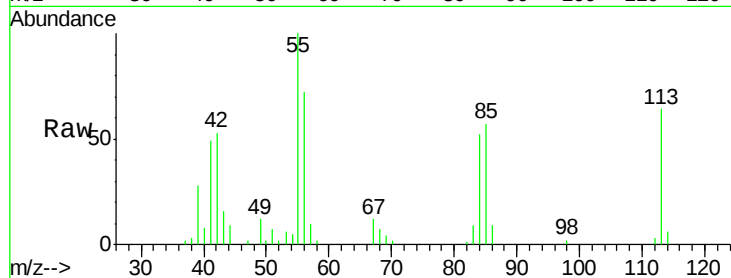
Tgt Ion:113 Resp: 17824

Ion Ratio Lower Upper

113 100

55 156.0 154.6 194.6

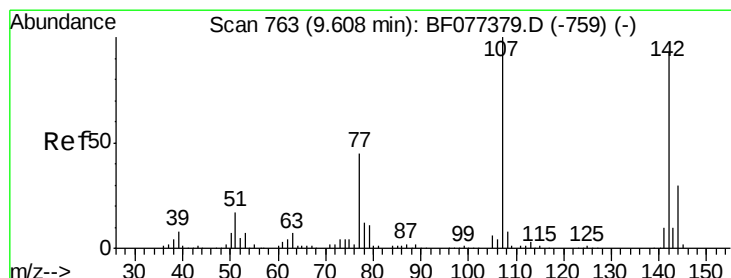
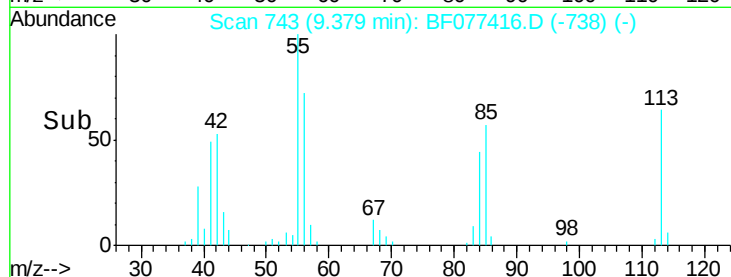
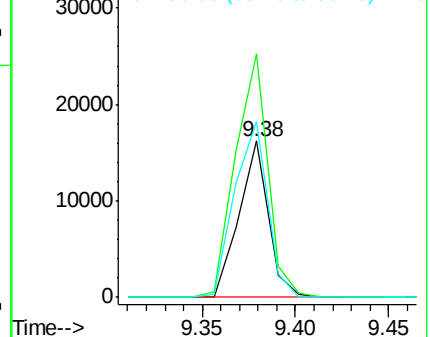
56 112.4 114.0 154.0#



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: 21.04 ng

RT: 9.57 min Scan# 760

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

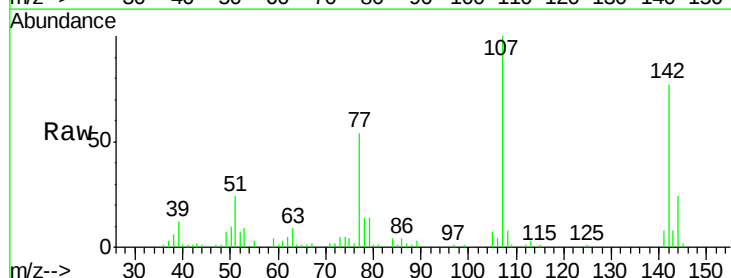
Tgt Ion:107 Resp: 57265

Ion Ratio Lower Upper

107 100

144 24.1 21.1 31.7

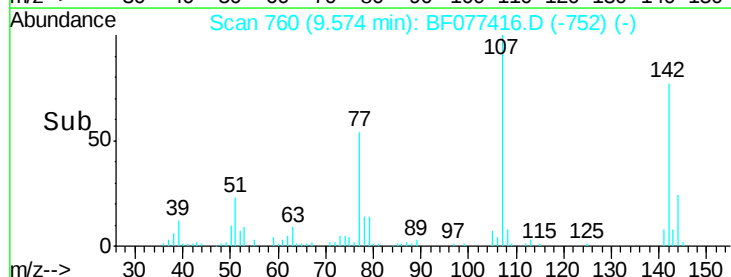
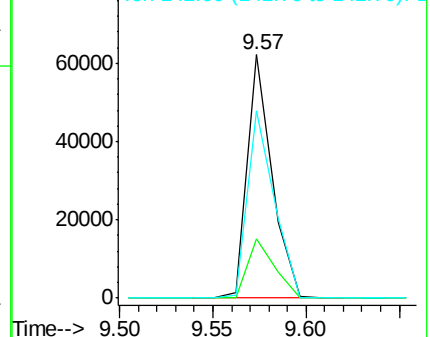
142 77.0 65.3 97.9

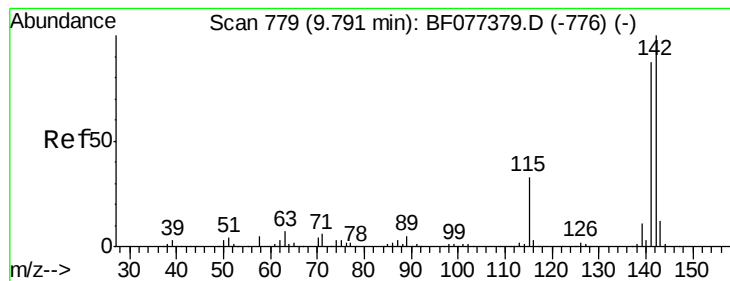


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 21.16 ng

RT: 9.77 min Scan# 777

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

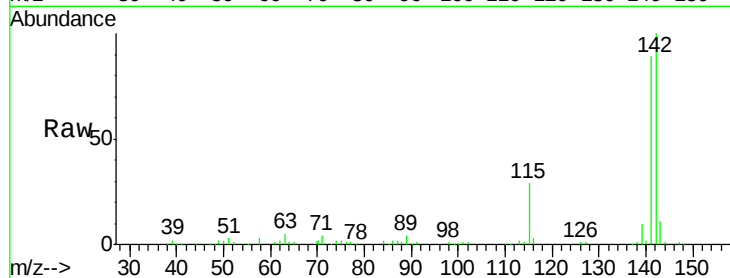
Tgt Ion:142 Resp: 139649

Ion Ratio Lower Upper

142 100

141 89.0 70.7 106.1

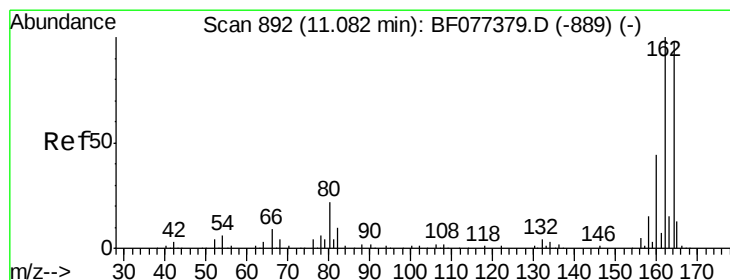
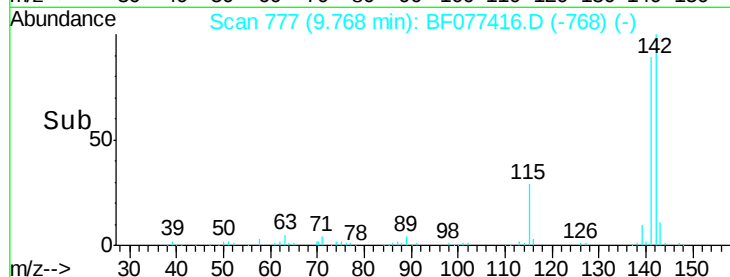
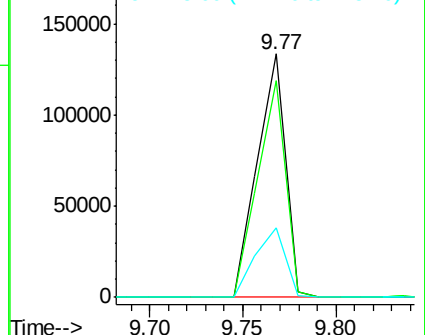
115 28.7 24.2 36.4



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: 11.05 min Scan# 889

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

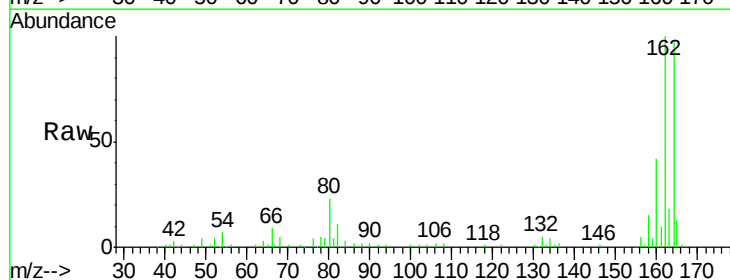
Tgt Ion:164 Resp: 93498

Ion Ratio Lower Upper

164 100

162 102.6 83.2 124.8

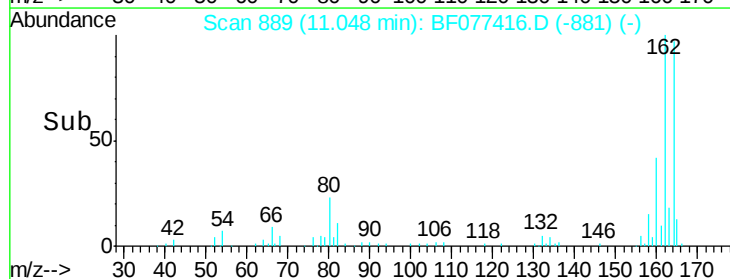
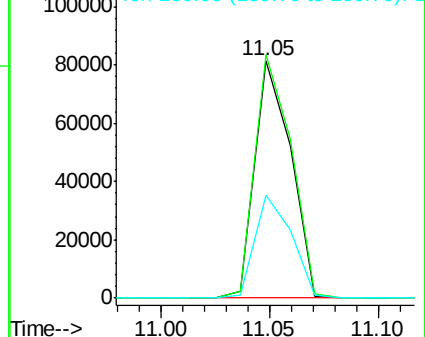
160 43.2 34.6 52.0

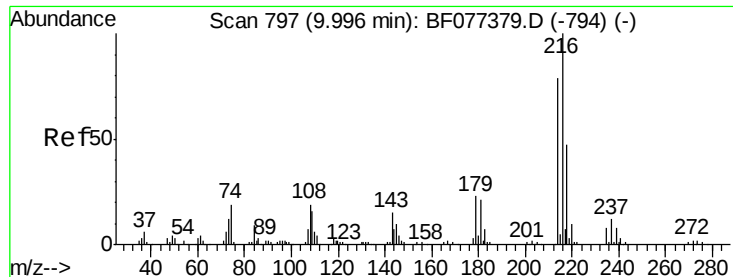


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#39

1,2,4,5-Tetrachlorobenzene

Concen: 23.35 ng

RT: 9.97 min Scan# 795

Delta R.T. 0.00 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

Instrument :

BNA_F

ClientSampleId :

DRILL-CUTTINGSMS

Tgt Ion:216 Resp: 62633

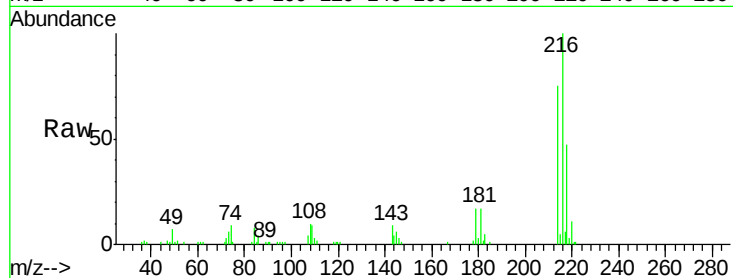
Ion Ratio Lower Upper

216 100

214 77.1 63.4 95.0

179 19.9 16.6 25.0

108 18.5 14.2 21.4

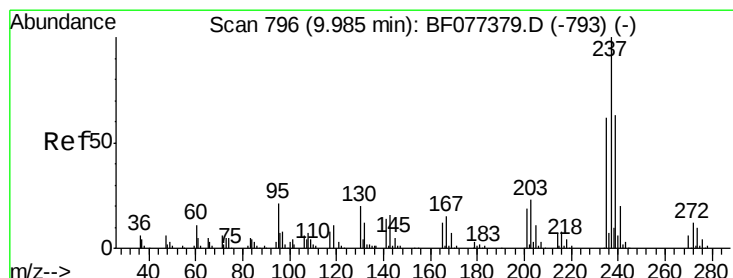
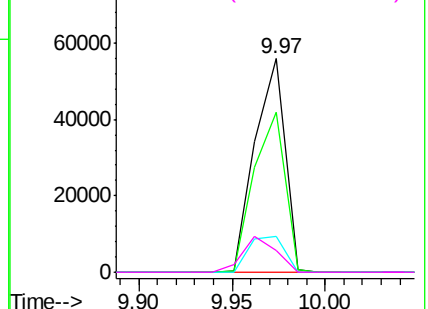
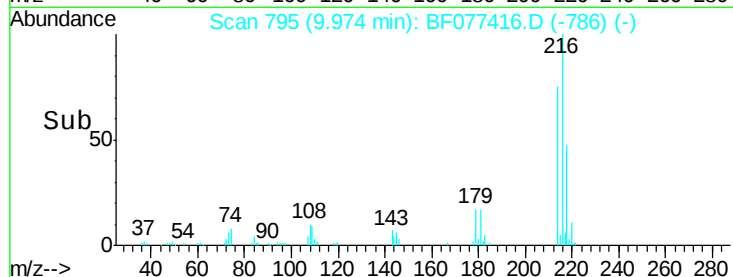


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 35.35 ng

RT: 9.95 min Scan# 793

Delta R.T. -0.01 min

Lab File: BF077416.D

Acq: 24 Feb 2015 14:35

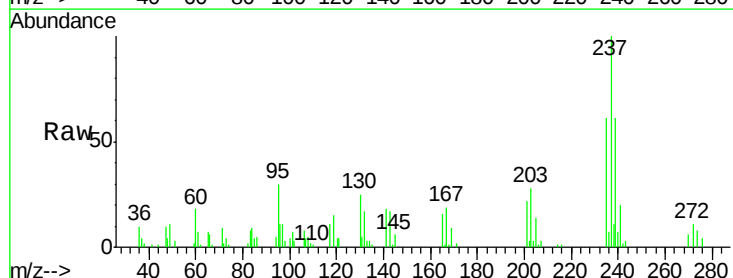
Tgt Ion:237 Resp: 50848

Ion Ratio Lower Upper

237 100

235 61.2 41.0 81.0

272 10.9 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

