

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083810.D
 Acq On : 15 Dec 2015 11:02
 Operator : UM/IZ
 Sample : G4761-07DL 100X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENTDL

Quant Time: Dec 15 11:34:01 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

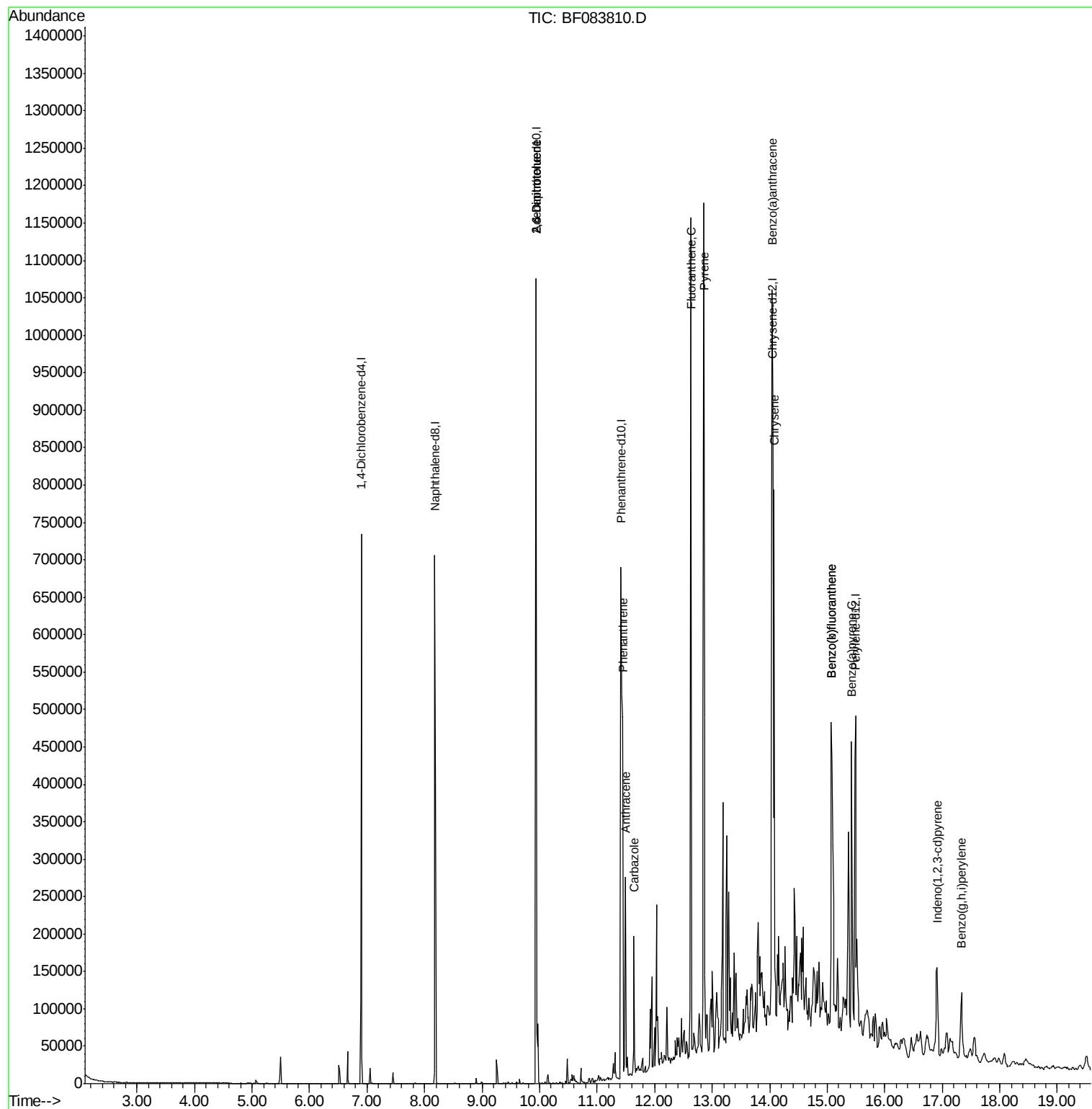
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	103939	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	394722	20.00	ng	-0.03
38) Acenaphthene-d10	9.94	164	200515	20.00	ng	-0.02
63) Phenanthrene-d10	11.41	188	329526	20.00	ng	-0.03
75) Chrysene-d12	14.05	240	236475	20.00	ng	-0.02
86) Perylene-d12	15.49	264	226004	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	10400	1.61	ng	-0.03
7) Phenol-d6	6.51	99	12738	1.56	ng	-0.03
23) Nitrobenzene-d5	7.45	82	6778	0.96	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	2167	1.06	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	15018	1.76	ng	-0.03
78) Terphenyl-d14	13.00	244	12169	1.11	ng	-0.02
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.94	165	26057	7.85	ng	# 17
56) 2,4-Dinitrotoluene	9.94	165	26058	6.01	ng	# 12
70) Phenanthrene	11.45	178	279555	15.97	ng	99
71) Anthracene	11.49	178	99185	5.46	ng	98
72) Carbazole	11.64	167	67472	3.98	ng	97
74) Fluoranthene	12.64	202	634220	35.06	ng	95
77) Pyrene	12.85	202	511186	27.35	ng	98
80) Benzo(a)anthracene	14.04	228	318321	23.67	ng	98
82) Chrysene	14.08	228	203471	15.51	ng	96
85) Indeno(1,2,3-cd)pyrene	16.91	276	78649	6.11	ng	# 100
87) Benzo(b)fluoranthene	15.07	252	336289	23.32	ng	# 96
88) Benzo(k)fluoranthene	15.07	252	336289	25.74	ng	100
89) Benzo(a)pyrene	15.43	252	181970	14.14	ng	97
91) Benzo(a,h,i)perylene	17.33	276	71361	5.43	ng	100

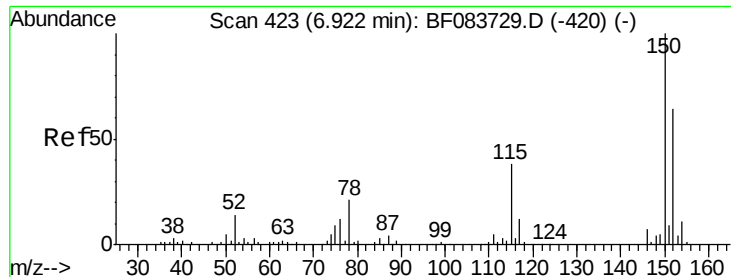
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 14 01:30:12 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

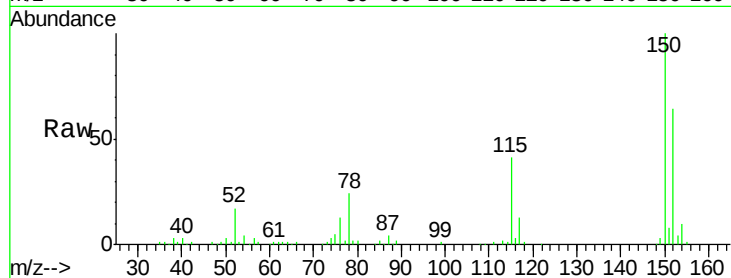
Tot Ion:152 Resp: 103939

Ion Ratio Lower Upper

152 100

150 155.8 126.5 189.7

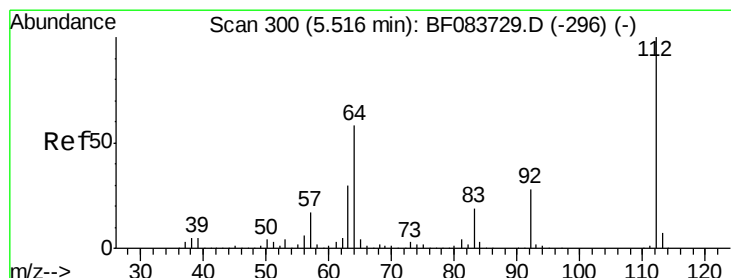
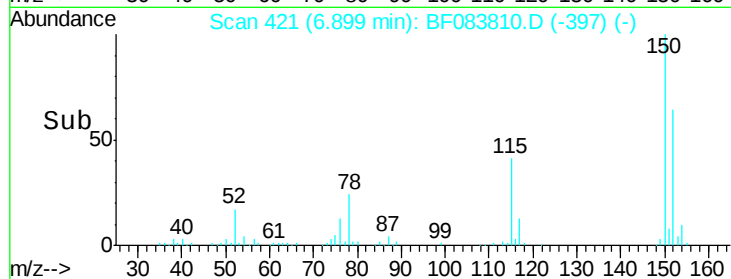
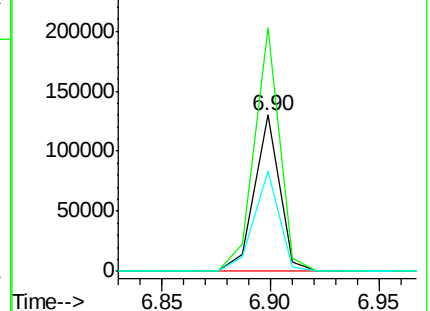
115 63.9 52.3 78.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 1.61 ng

RT: 5.49 min Scan# 298

Delta R.T. -0.03 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

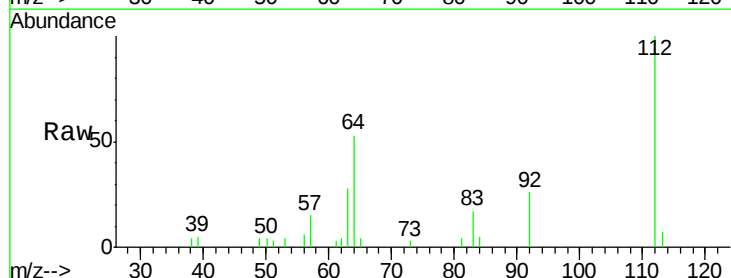
Tgt Ion:112 Resp: 10400

Ion Ratio Lower Upper

112 100

64 52.9 50.5 75.7

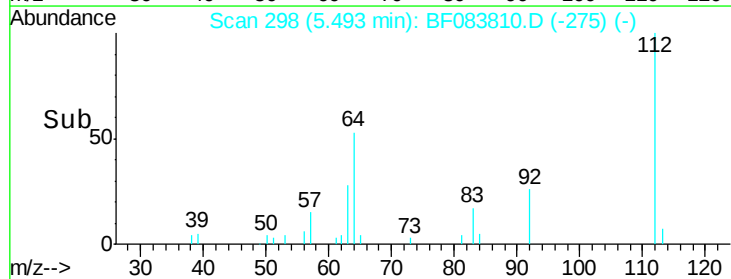
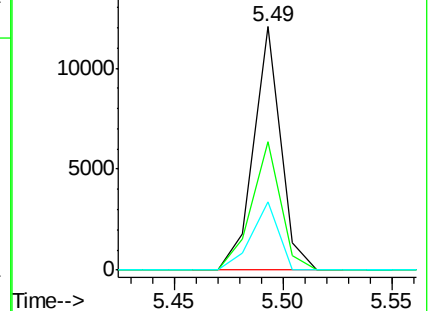
63 28.1 25.8 38.6

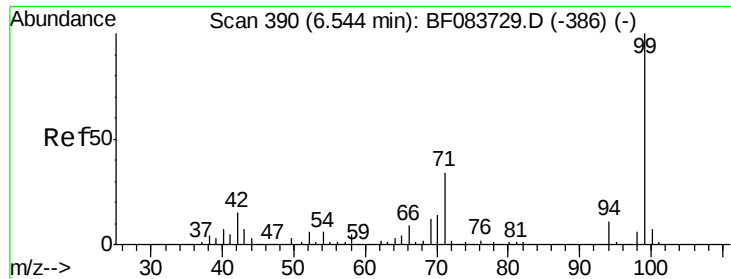


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.56 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.03 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

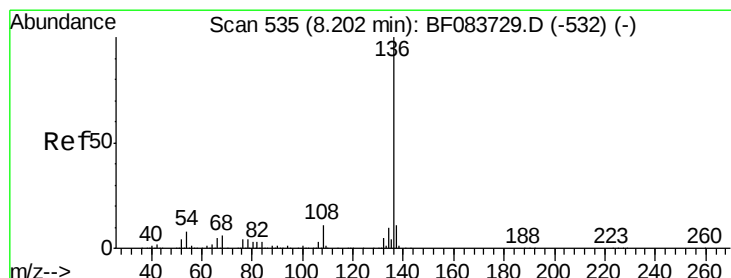
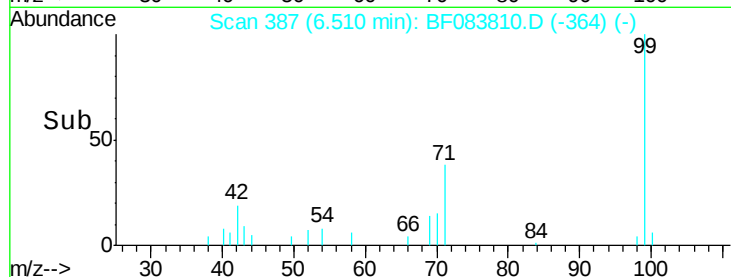
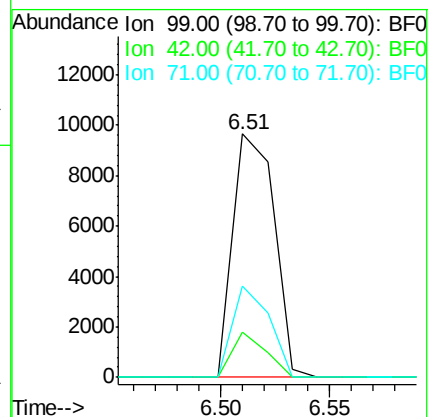
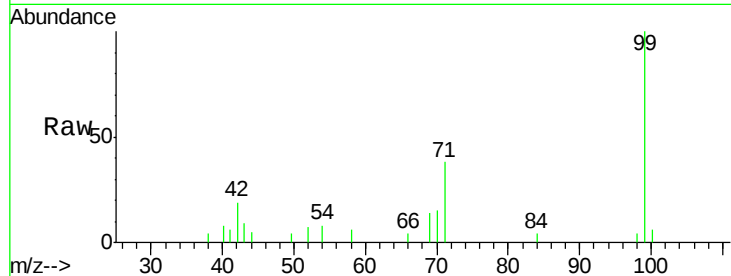
Tot Ion: 99 Resp: 12738

Ion Ratio Lower Upper

99 100

42 18.5 17.3 25.9

71 37.7 26.6 40.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Tgt Ion: 136 Resp: 394722

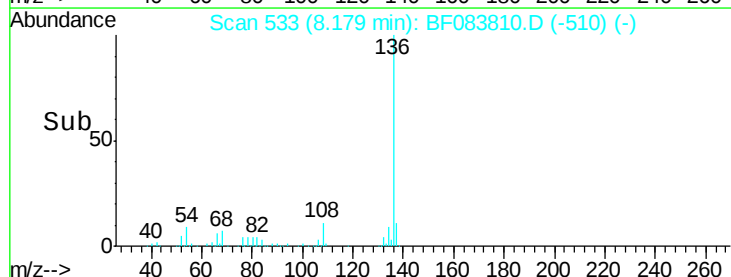
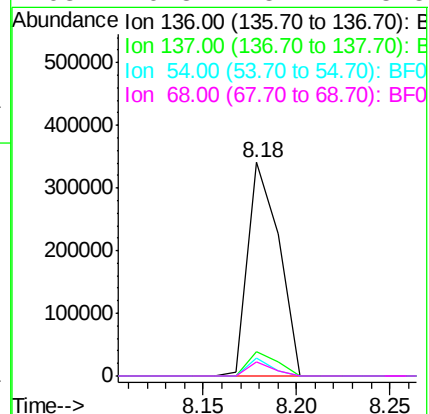
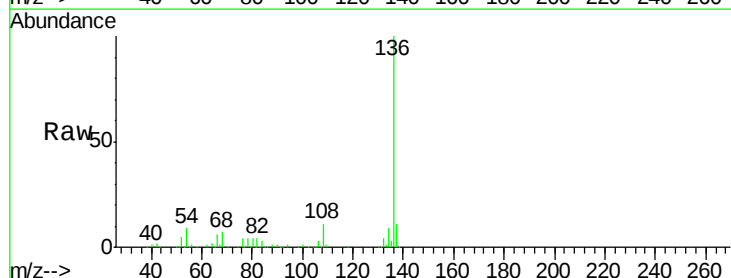
Ion Ratio Lower Upper

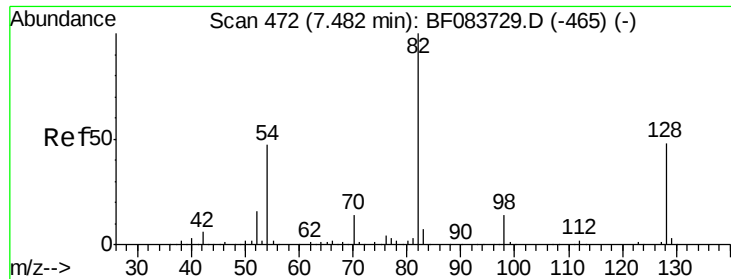
136 100

137 11.3 8.7 13.1

54 8.5 7.8 11.6

68 6.8 5.7 8.5

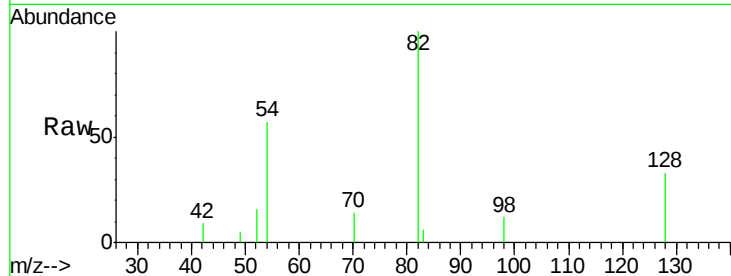




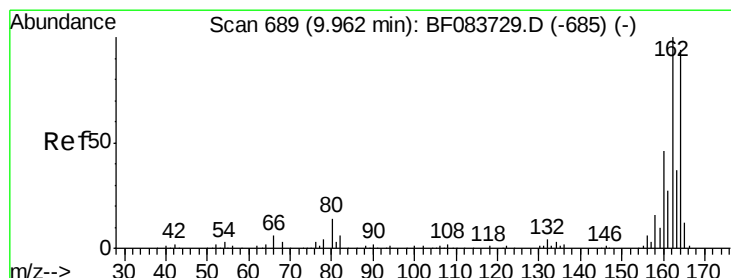
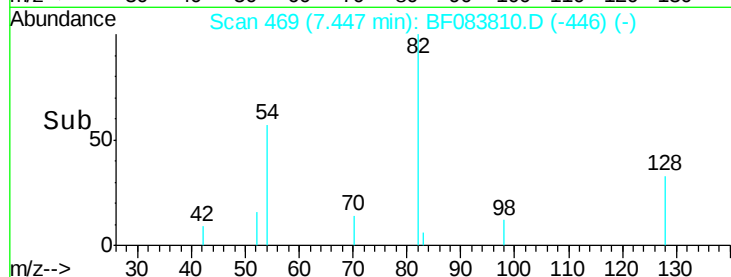
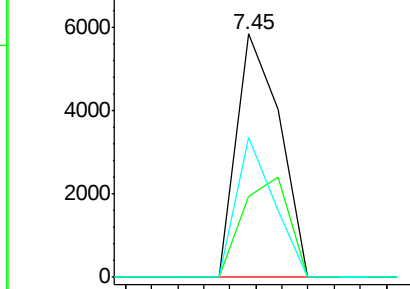
#23
 Nitrobenzene-d5
 Concen: 0.96 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENTDL

Tot Ion	82	Resp	6778
Ion Ratio	Lower	Upper	
82	100		
128	33.4	30.7	46.1
54	57.4	42.5	63.7

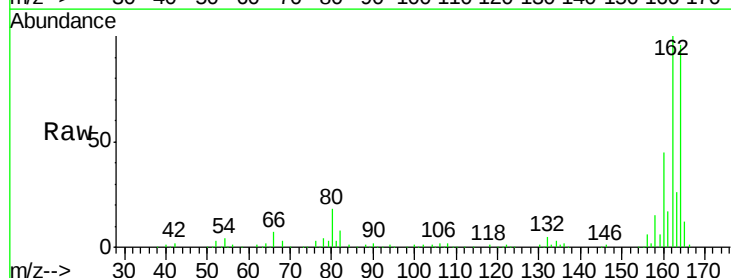


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

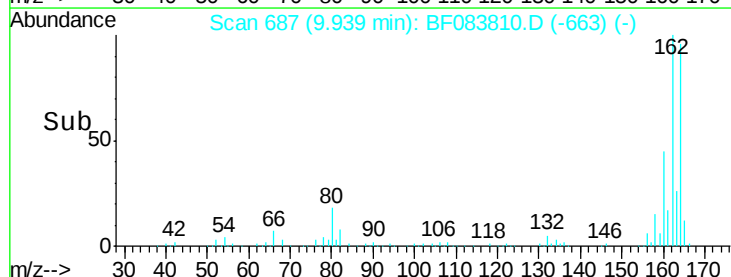
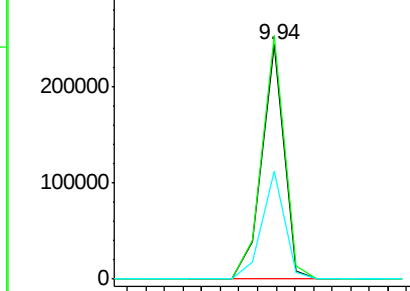


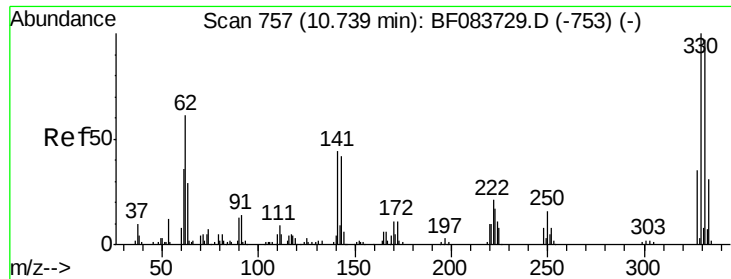
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.02 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion	164	Resp	200515
Ion Ratio	Lower	Upper	
164	100		
162	103.8	78.8	118.2
160	46.3	33.4	50.2



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

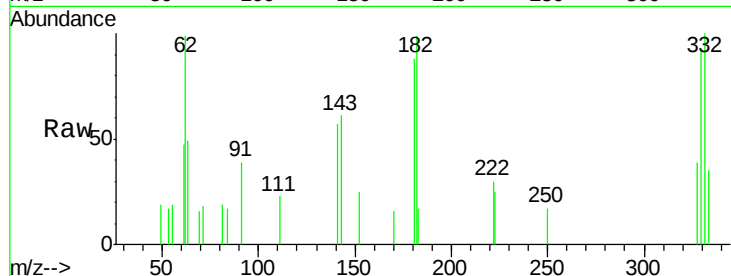




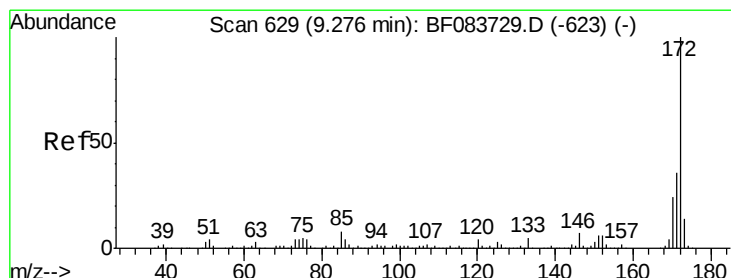
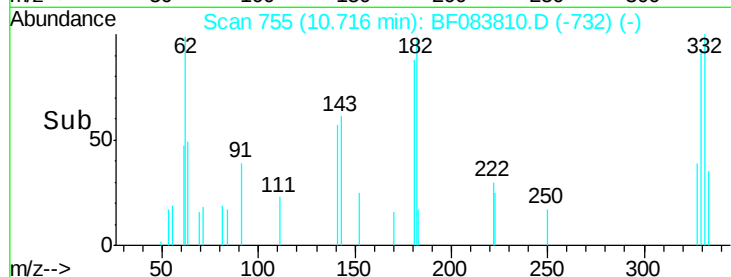
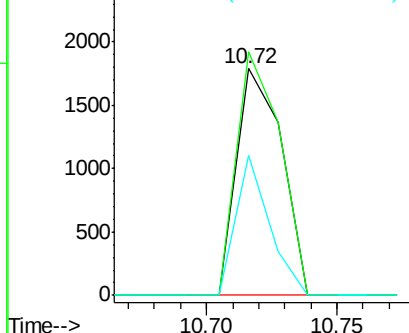
#41
 2,4,6-Tribromophenol
 Concen: 1.06 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENTDL

Tot Ion:330 Resp: 2167
 Ion Ratio Lower Upper
 330 100
 332 104.2 0.0 0.0#
 141 45.8 0.0 0.0#

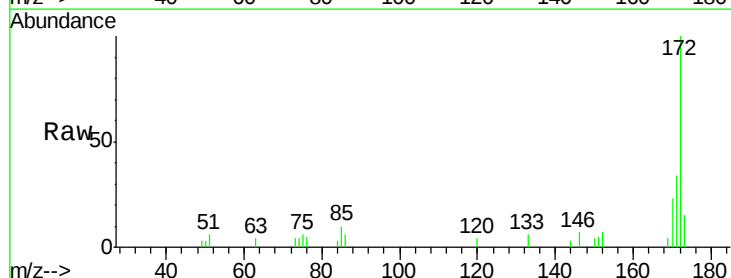


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

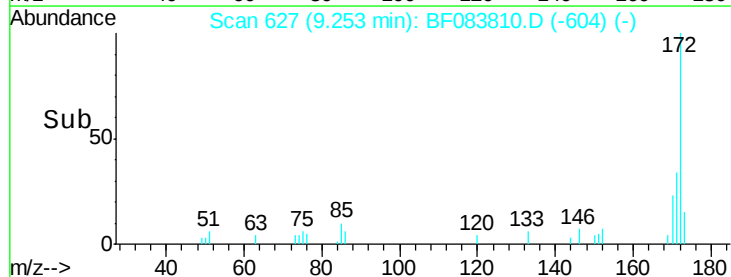
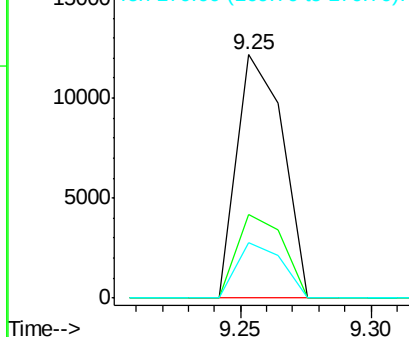


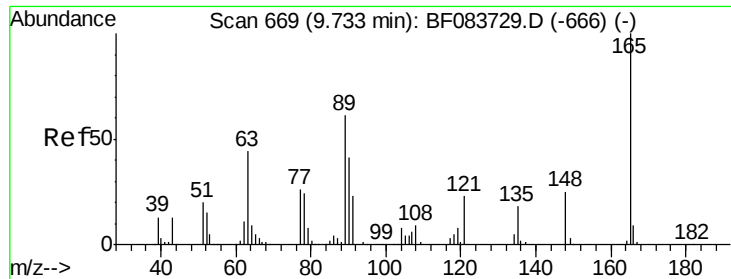
#44
 2-Fluorobiphenyl
 Concen: 1.76 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion:172 Resp: 15018
 Ion Ratio Lower Upper
 172 100
 171 34.5 28.6 42.8
 170 22.9 19.4 29.0



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





#50

2,6-Dinitrotoluene

Concen: 7.85 ng

RT: 9.94 min Scan# 687

Delta R.T. 0.19 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

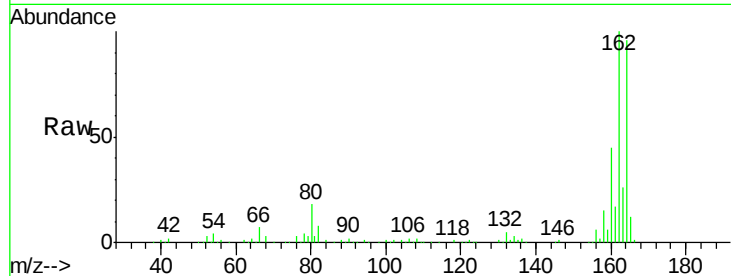
Tot Ion:165 Resp: 26057

Ion Ratio Lower Upper

165 100

63 1.3 56.9 85.3#

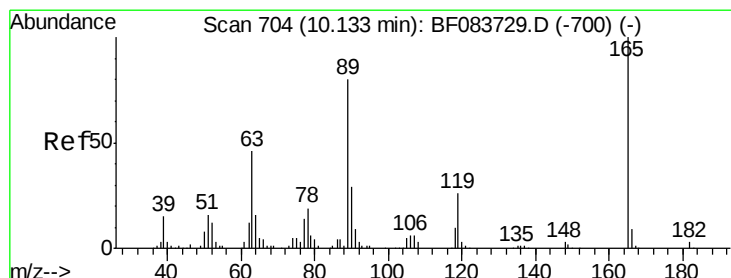
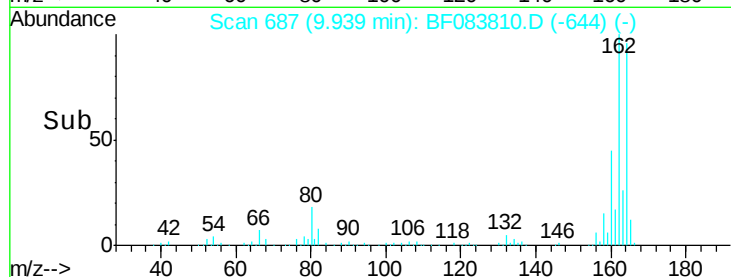
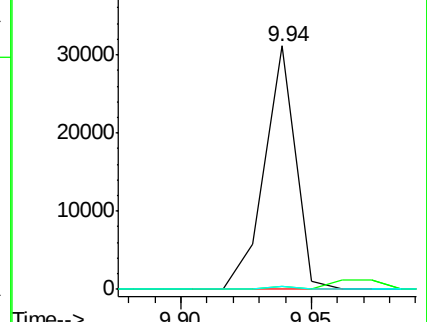
89 1.3 52.1 78.1#



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



#56

2,4-Dinitrotoluene

Concen: 6.01 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.21 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Tgt Ion:165 Resp: 26058

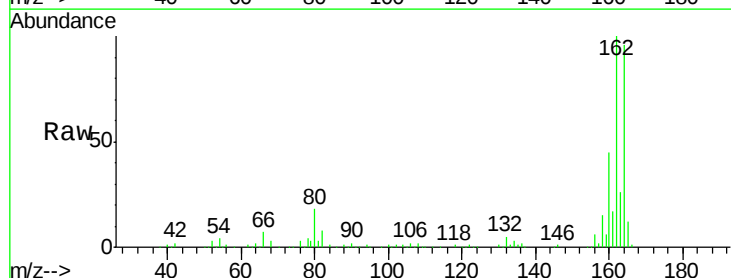
Ion Ratio Lower Upper

165 100

63 1.3 51.4 77.2#

89 1.3 72.6 108.8#

182 0.0 1.4 2.0#

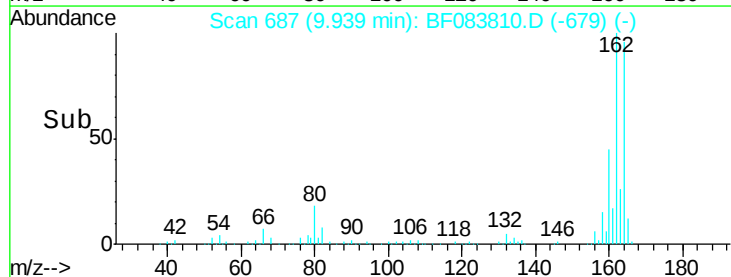
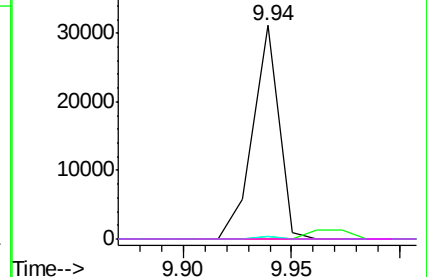


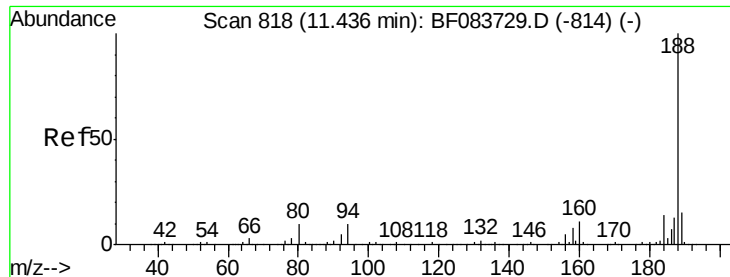
Abundance Ion 165.00 (164.70 to 165.70): E

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

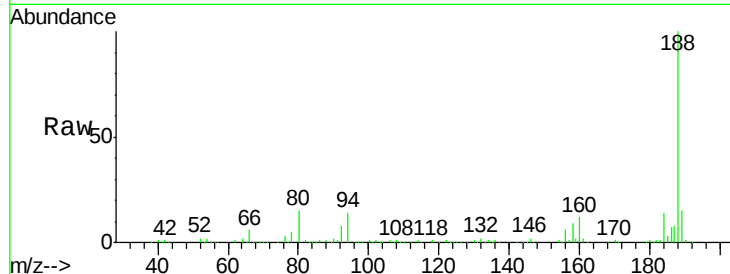




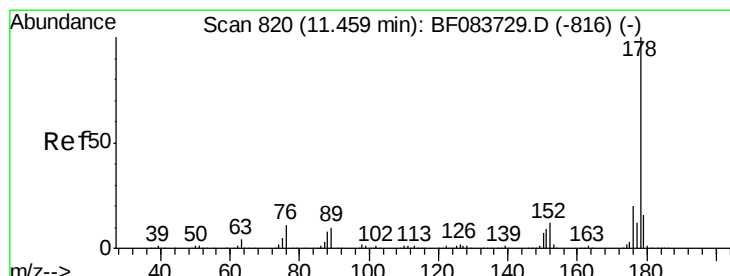
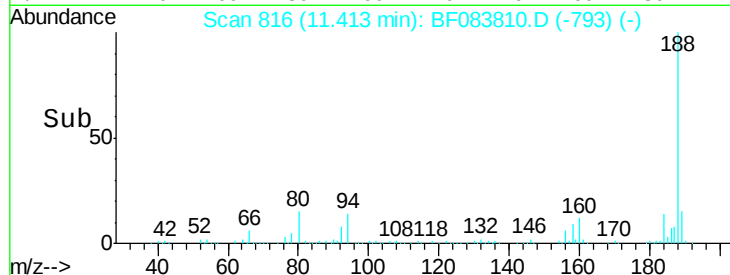
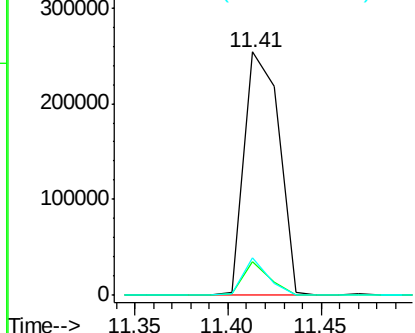
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Tot Ion:188 Resp: 329526
Ion Ratio Lower Upper
188 100
94 14.1 9.4 14.2
80 15.4 10.6 16.0

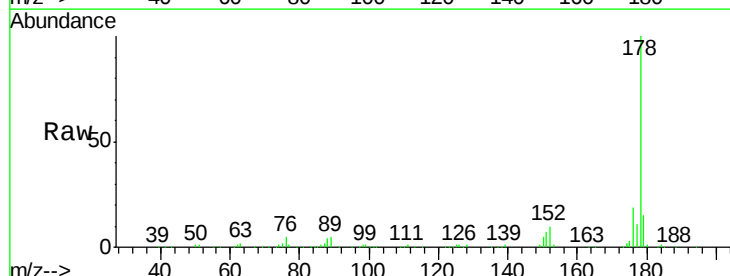


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

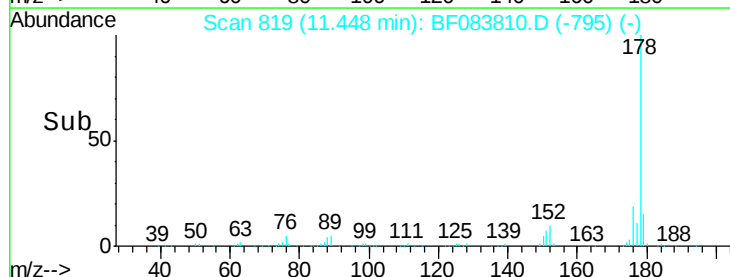
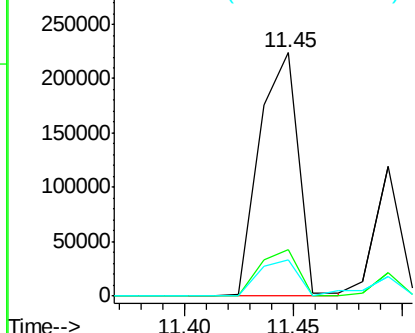


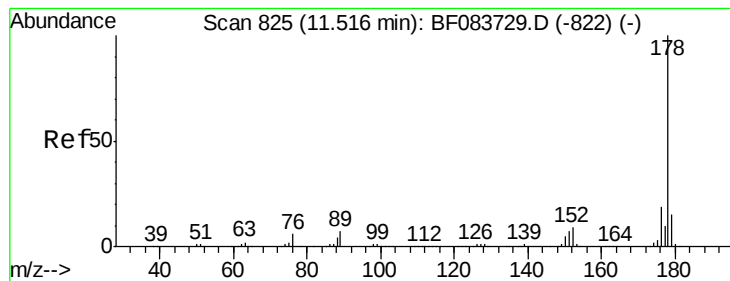
#70
Phenanthrene
Concen: 15.97 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:178 Resp: 279555
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 14.9 12.2 18.4



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: 5.46 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

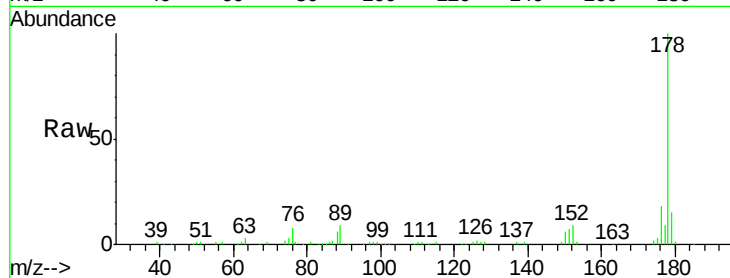
Tot Ion:178 Resp: 99185

Ion Ratio Lower Upper

178 100

176 17.9 15.2 22.8

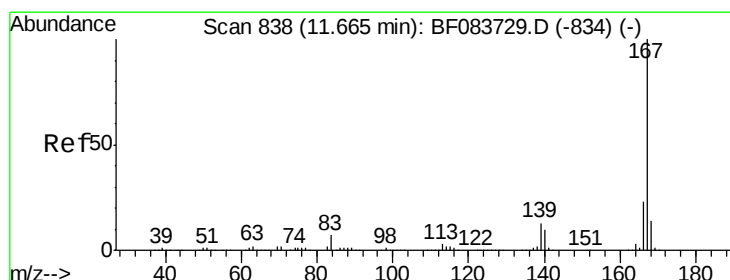
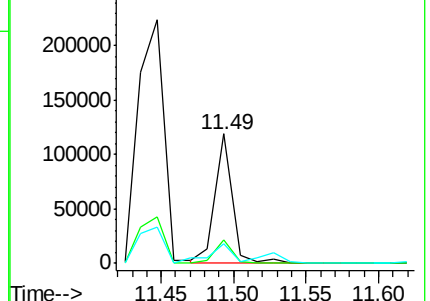
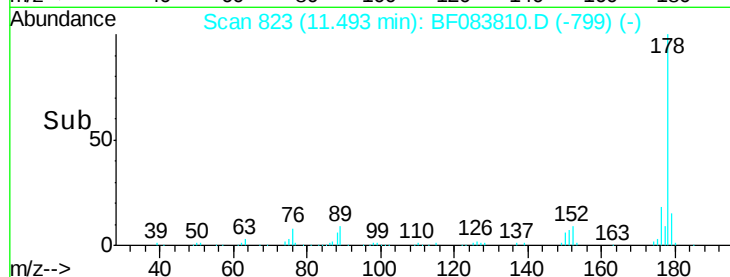
179 15.3 12.6 18.8



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: 3.98 ng

RT: 11.64 min Scan# 836

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

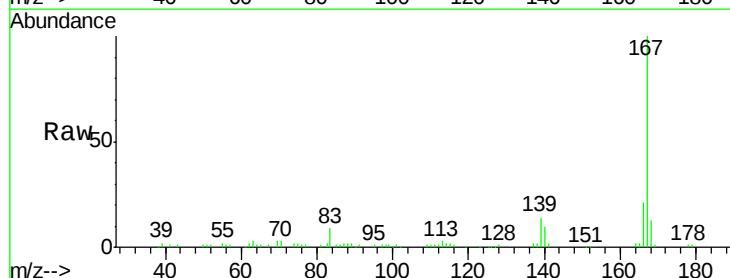
Tgt Ion:167 Resp: 67472

Ion Ratio Lower Upper

167 100

166 20.8 17.2 25.8

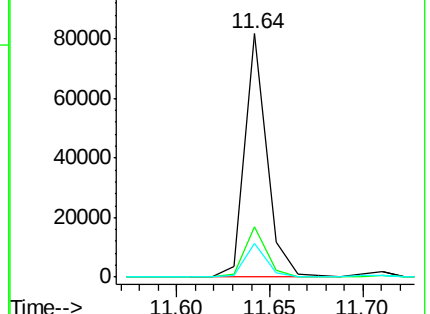
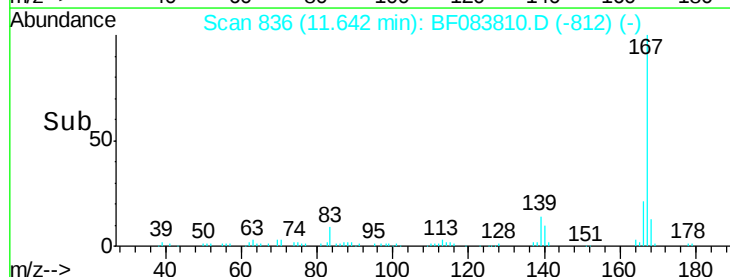
139 13.7 9.3 13.9

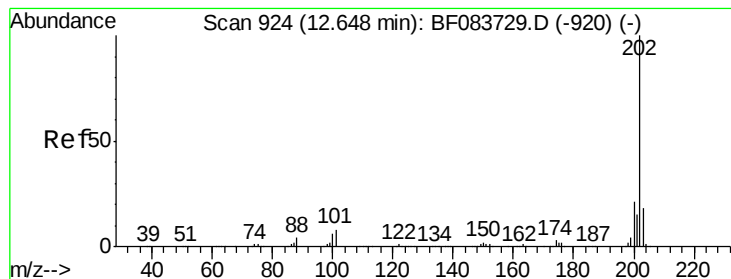


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 35.06 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

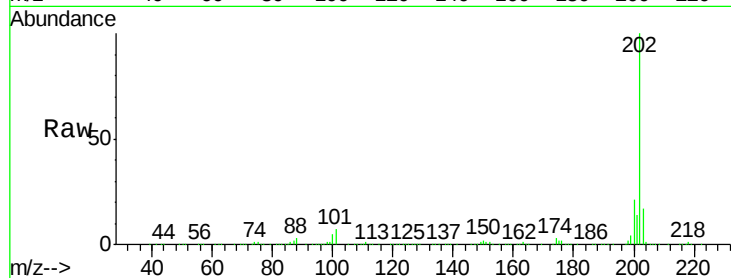
Tot Ion:202 Resp: 634220

Ion Ratio Lower Upper

202 100

101 6.7 0.0 31.5

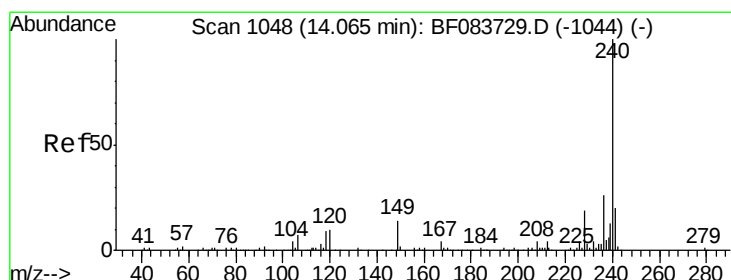
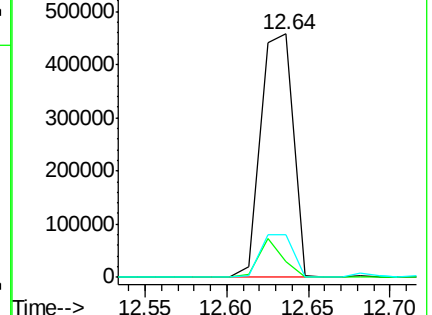
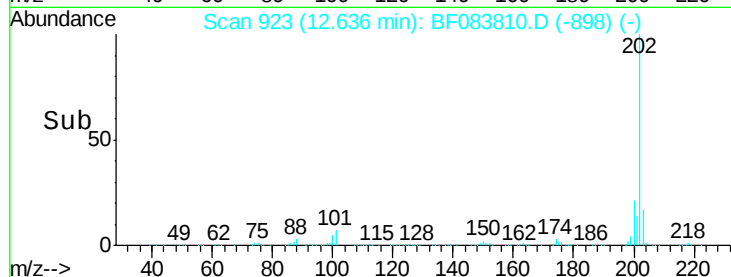
203 17.4 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

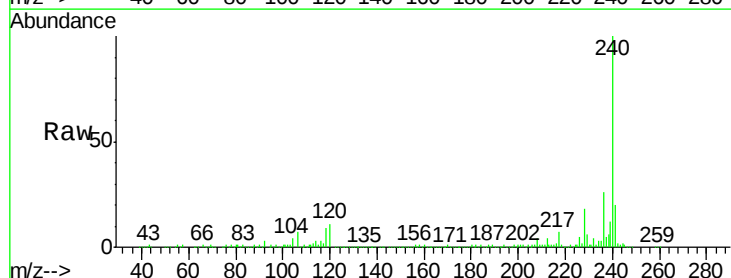
Tgt Ion:240 Resp: 236475

Ion Ratio Lower Upper

240 100

120 10.5 8.1 12.1

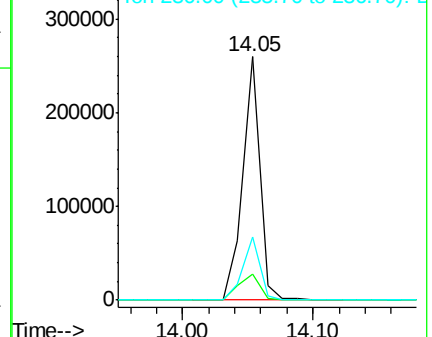
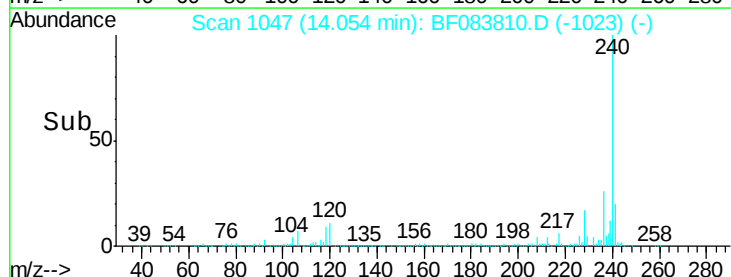
236 25.7 20.8 31.2

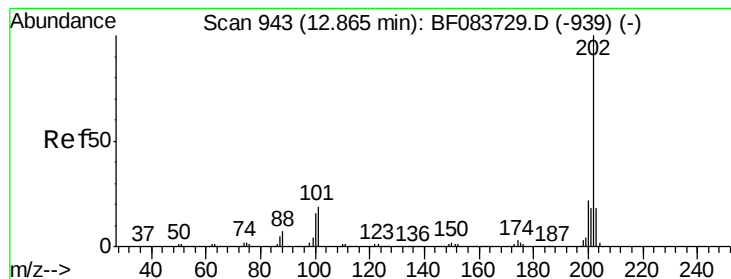


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.35 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

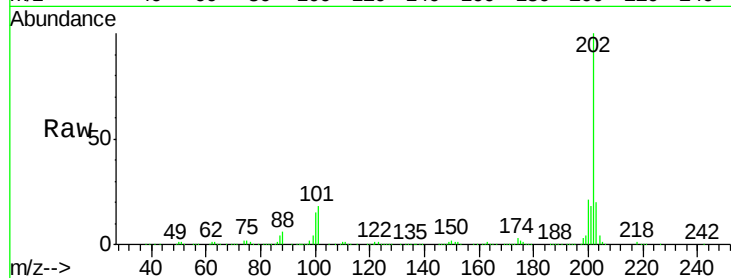
Tot Ion:202 Resp: 511186

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

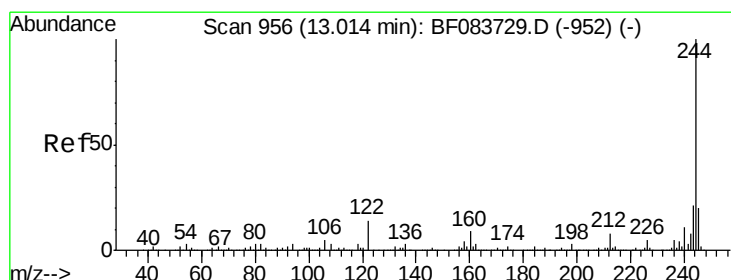
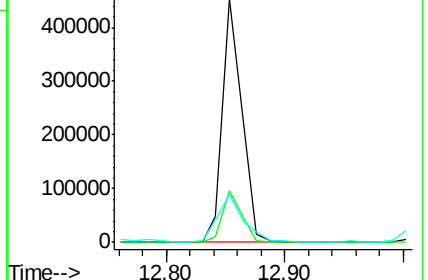
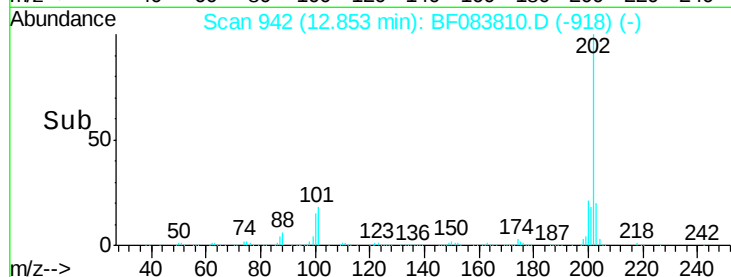
203 19.8 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 1.11 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

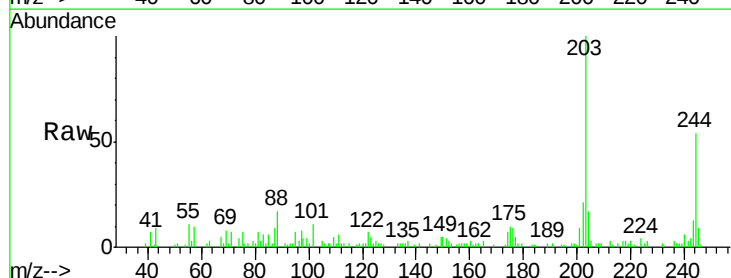
Tgt Ion:244 Resp: 12169

Ion Ratio Lower Upper

244 100

212 6.4 6.1 9.1

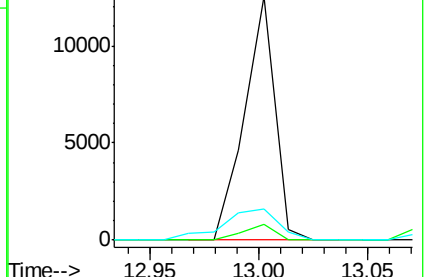
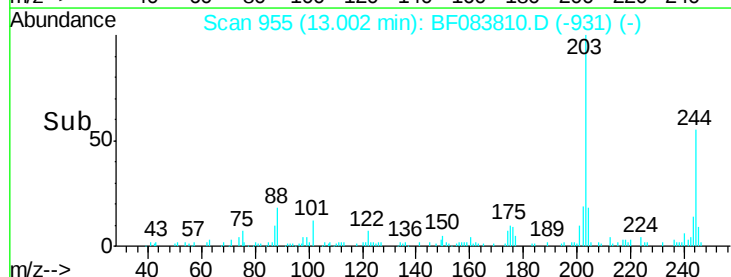
122 12.5 11.0 16.6

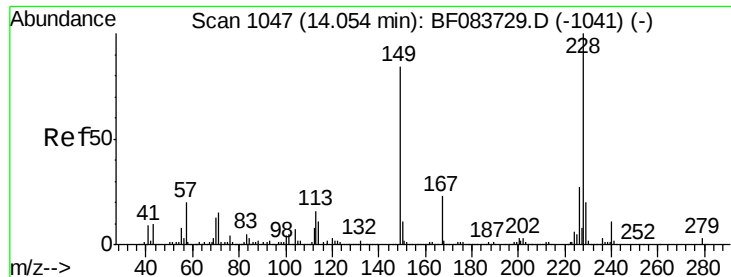


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

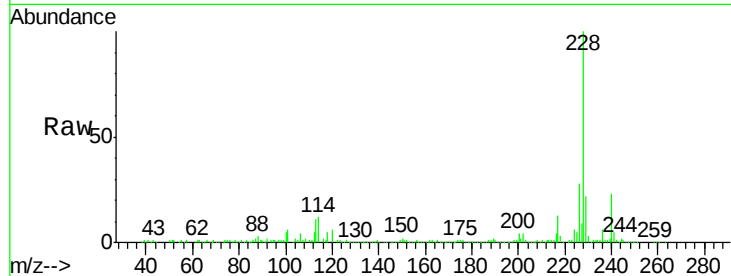




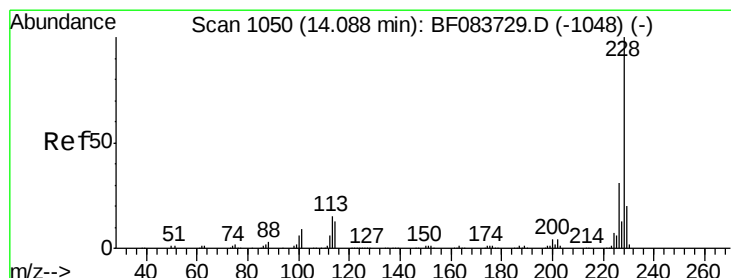
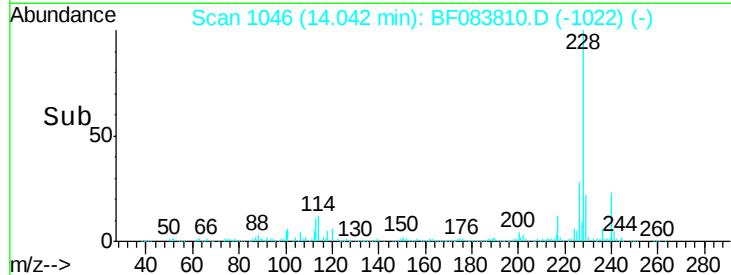
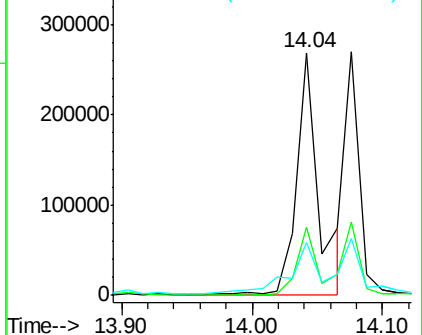
#80
Benzo(a)anthracene
Concen: 23.67 ng
RT: 14.04 min Scan# 1046
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Tot Ion:228 Resp: 318321
Ion Ratio Lower Upper
228 100
226 28.0 22.3 33.5
229 22.1 15.7 23.5

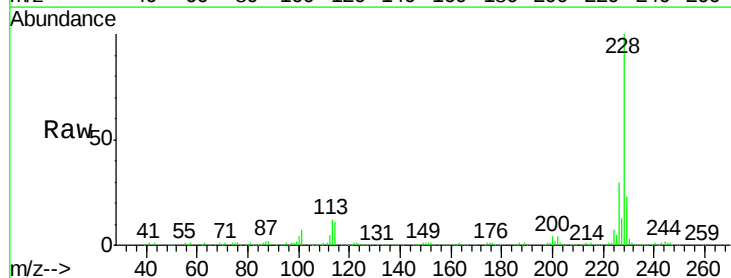


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

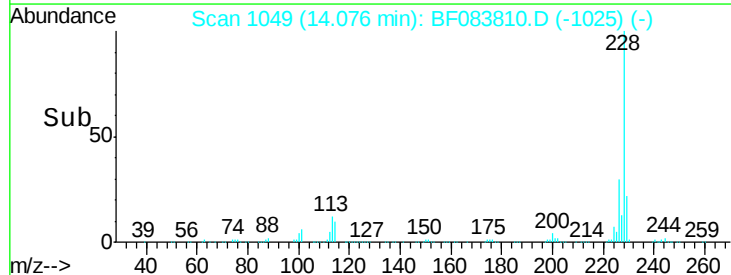
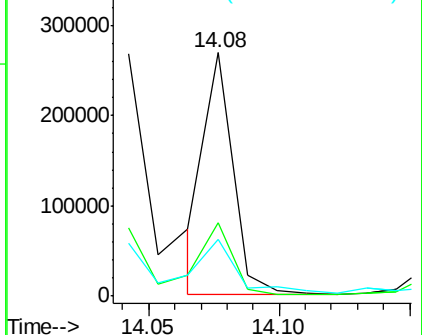


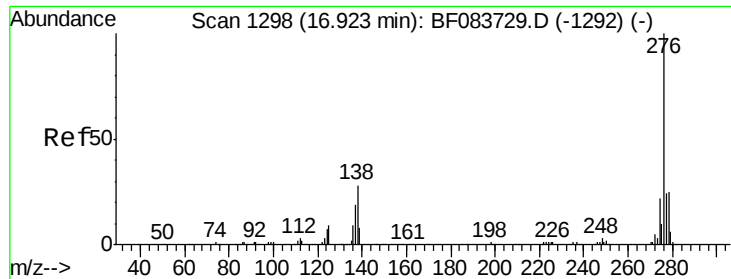
#82
Chrysene
Concen: 15.51 ng
RT: 14.08 min Scan# 1049
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:228 Resp: 203471
Ion Ratio Lower Upper
228 100
226 30.0 24.7 37.1
229 23.4 16.3 24.5



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

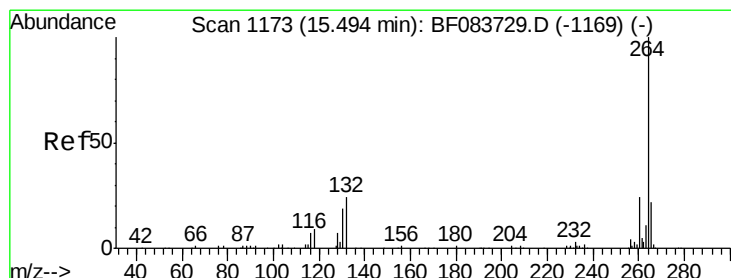
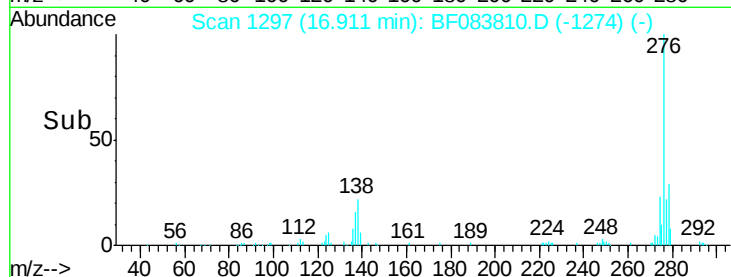
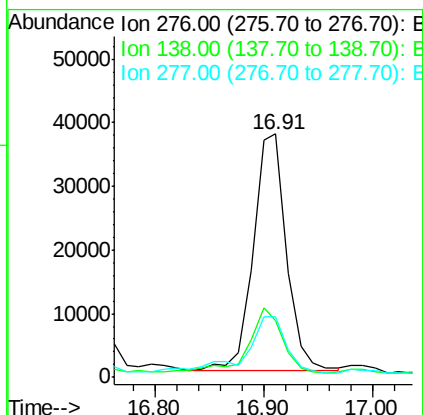
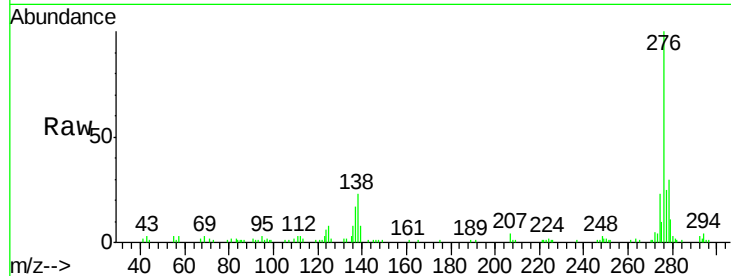




#85
Indeno(1,2,3-cd)pyrene
Concen: 6.11 ng
RT: 16.91 min Scan# 1297
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

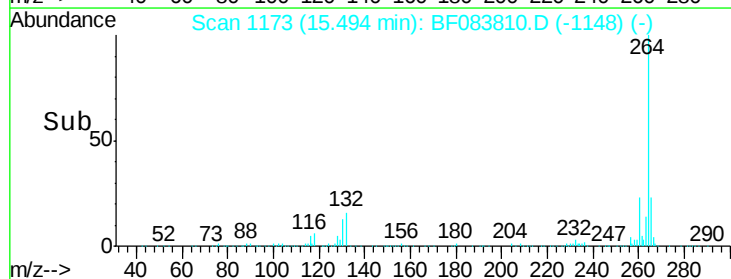
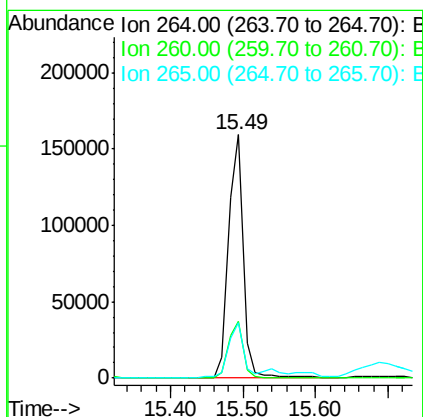
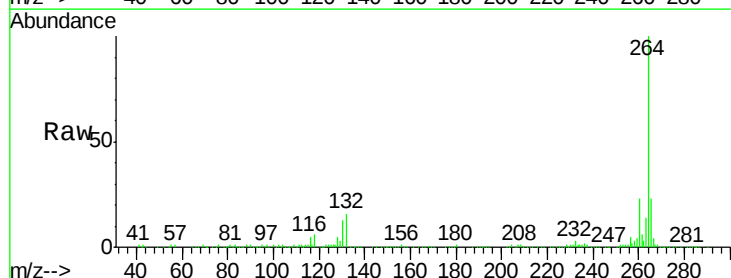
Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

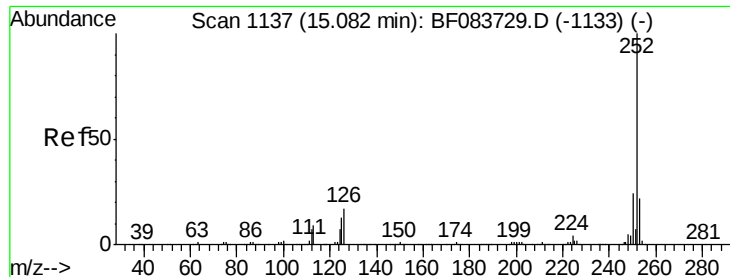
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.6	0.0	0.0#
277	29.8	0.0	0.0#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.0
265	22.9	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 23.32 ng

RT: 15.07 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

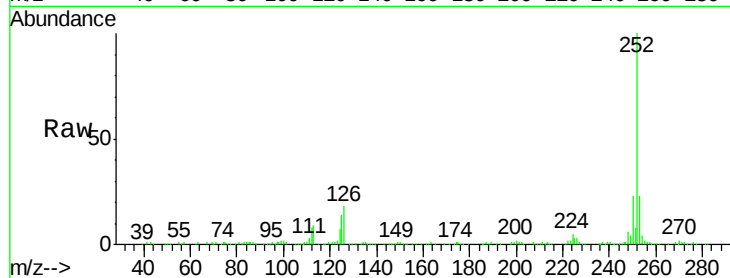
Tot Ion:252 Resp: 336289

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.4

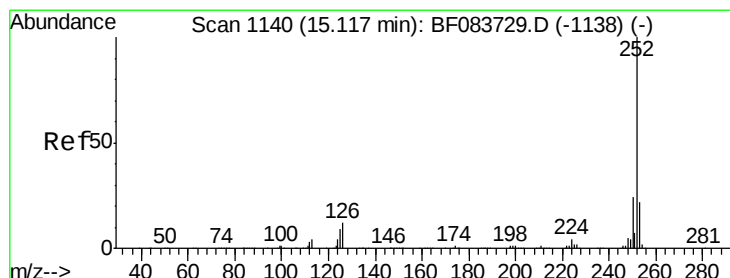
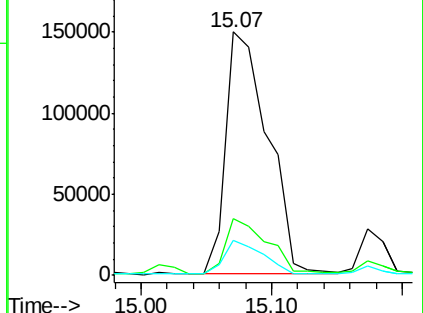
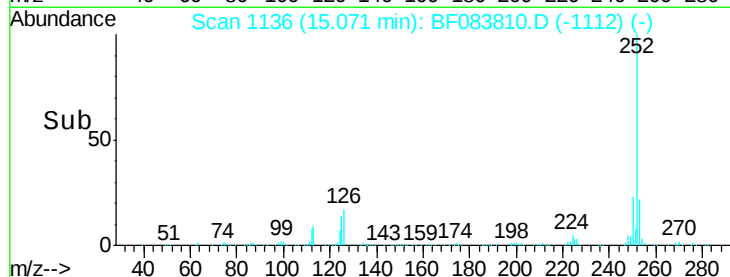
125 14.4 8.2 12.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 25.74 ng

RT: 15.07 min Scan# 1136

Delta R.T. -0.06 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

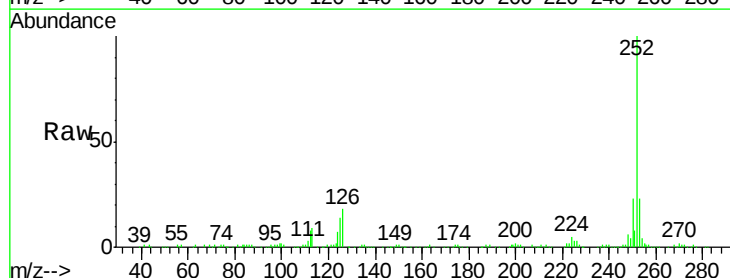
Tgt Ion:252 Resp: 336289

Ion Ratio Lower Upper

252 100

253 23.0 18.6 27.8

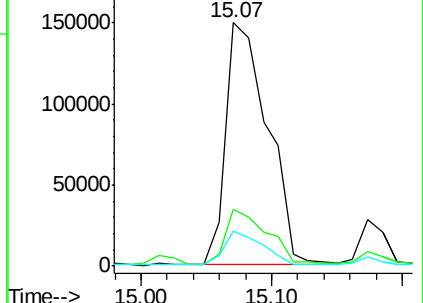
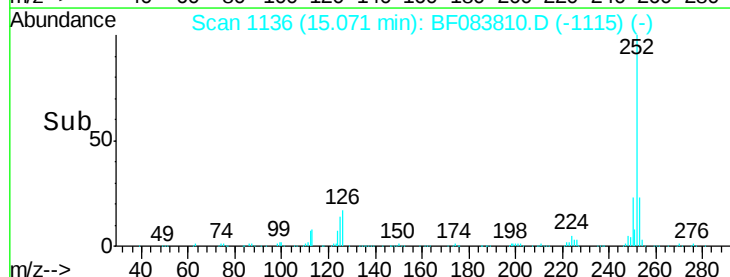
125 14.4 11.5 17.3

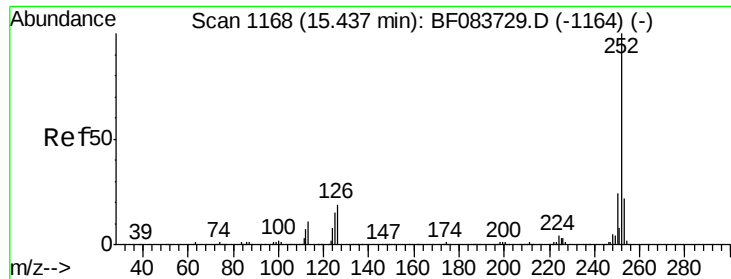


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 14.14 ng

RT: 15.43 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENTDL

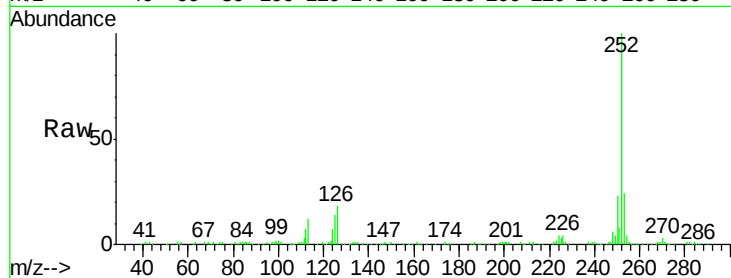
Tot Ion:252 Resp: 181970

Ion Ratio Lower Upper

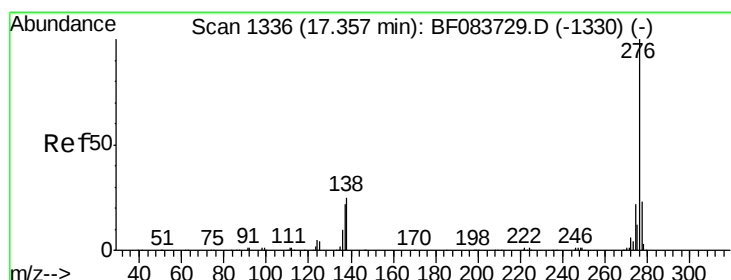
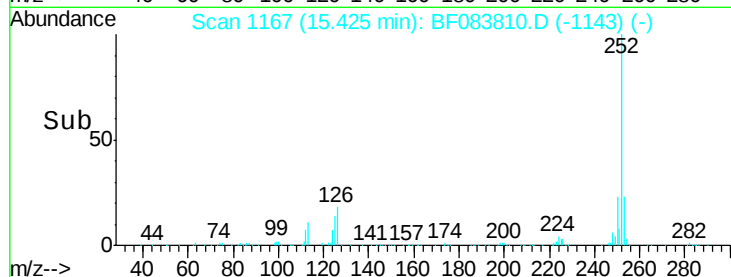
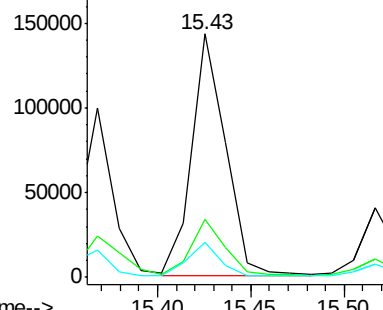
252 100

253 23.7 17.5 26.3

125 14.2 11.0 16.6



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



#91

Benzo(g,h,i)perylene

Concen: 5.43 ng

RT: 17.33 min Scan# 1334

Delta R.T. -0.05 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

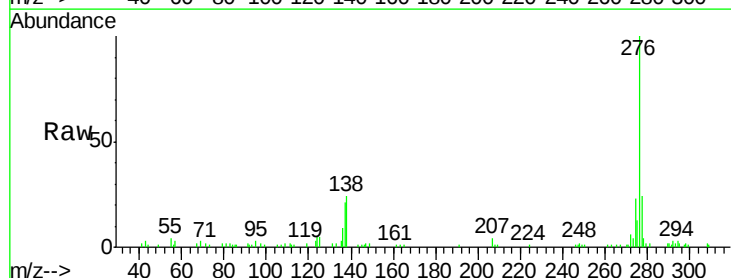
Tgt Ion:276 Resp: 71361

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 24.2 19.5 29.3



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

