

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE070115\
 Data File : BE090043.D
 Acq On : 1 Jul 2015 15:05
 Operator : TP/IZ
 Sample : G2810-26DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625DL

Quant Time: Jul 02 05:14:51 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

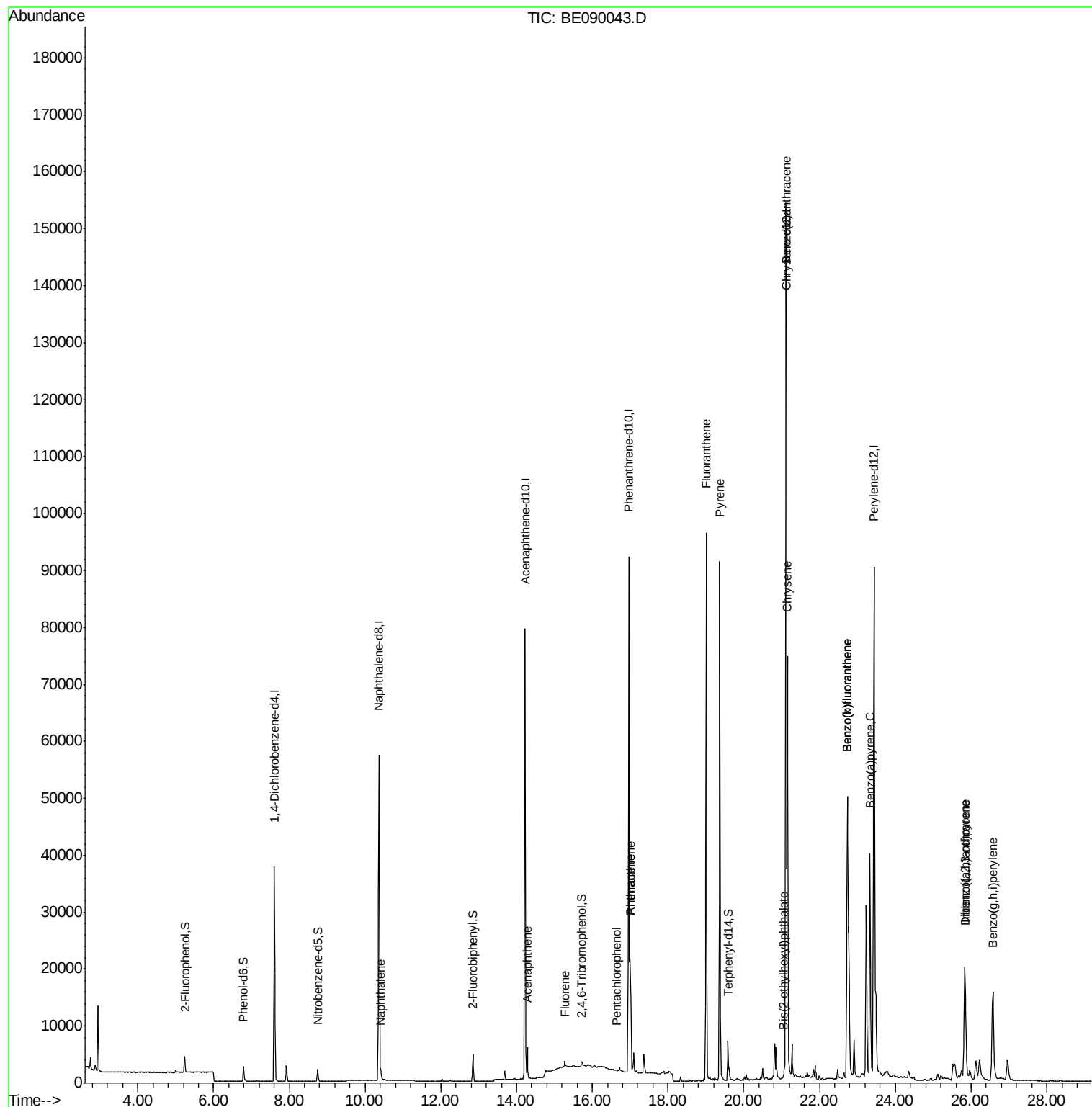
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	17764	5.00	ng	-0.01
6) Naphthalene-d8	10.37	136	78518	5.00	ng	-0.02
12) Acenaphthene-d10	14.22	164	45826	5.00	ng	-0.01
18) Phenanthrene-d10	16.96	188	106575	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	132714	5.00	ng	-0.01
32) Perylene-d12	23.44	264	125802	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	2212	0.54	ng	-0.01
5) Phenol-d6	6.79	99	3161	0.55	ng	-0.01
7) Nitrobenzene-d5	8.75	82	1947	0.31	ng	-0.01
13) 2,4,6-Tribromophenol	15.73	330	496	0.37	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	4691	0.34	ng	0.00
27) Terphenyl-d14	19.58	244	7263	0.33	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.41	128	1489	0.08	ng	# 90
16) Acenaphthene	14.29	154	984	0.08	ng	93
17) Fluorene	15.27	166	703	0.04	ng	# 81
21) Pentachlorophenol	16.63	266	10	0.26	ng	# 57
22) Phenanthrene	17.00	178	25632	0.94	ng	99
23) Anthracene	17.00	178	25633	1.03	ng	98
24) Fluoranthene	19.00	202	87279	2.86	ng	100
26) Pyrene	19.36	202	82661	2.61	ng	97
28) Benzo(a)anthracene	21.11	228	62348	1.88	ng	97
29) Chrysene	21.15	228	68966	2.00	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	209	0.32	ng	# 82
31) Indeno(1,2,3-cd)pyrene	25.83	276	34751	1.05	ng	97
33) Benzo(b)fluoranthene	22.73	252	88158	3.18	ng	98
34) Benzo(k)fluoranthene	22.73	252	88158	2.84	ng	98
35) Benzo(a)pyrene	23.33	252	57556	2.25	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	8846	0.34	ng	97
37) Benzo(g,h,i)perylene	26.57	276	35937	1.35	ng	98

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

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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 851

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

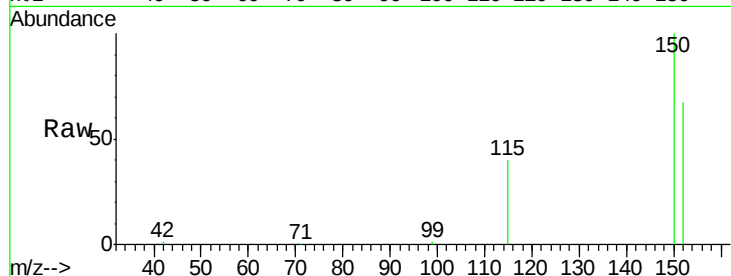
Tgt Ion:152 Resp: 17764

Ion Ratio Lower Upper

152 100

150 150.2 123.9 185.9

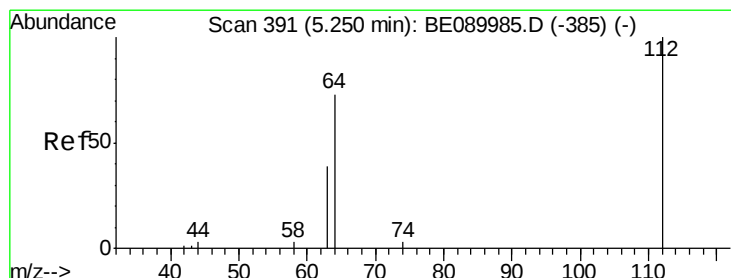
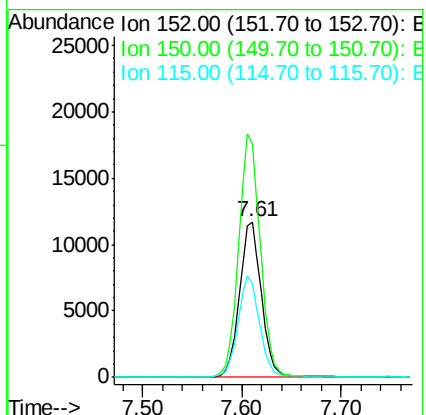
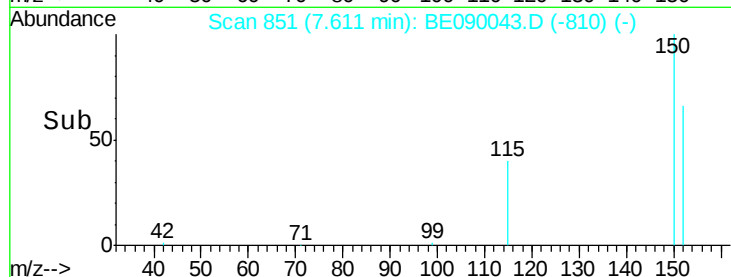
115 60.2 50.6 76.0



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



#4

2-Fluorophenol

Concen: 0.54 ng

RT: 5.24 min Scan# 389

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

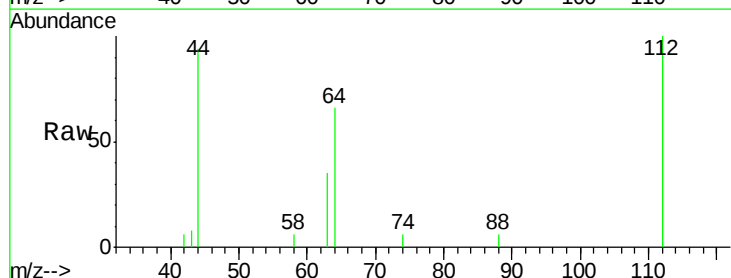
Tgt Ion:112 Resp: 2212

Ion Ratio Lower Upper

112 100

64 70.3 56.3 84.5

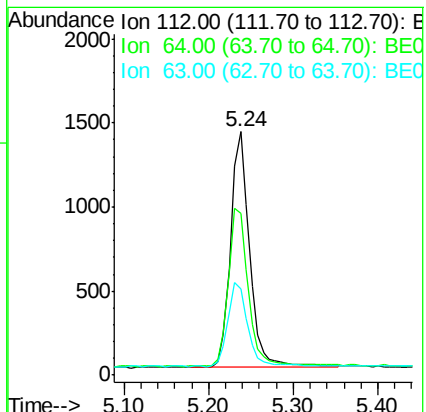
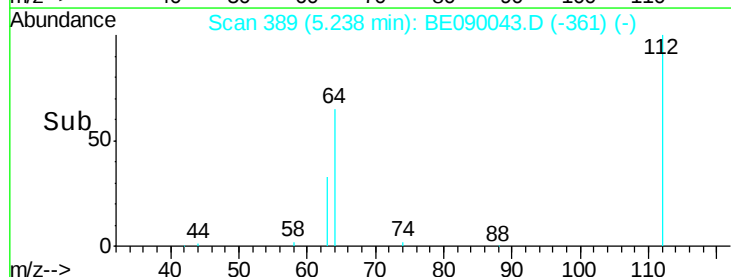
63 36.8 29.8 44.6

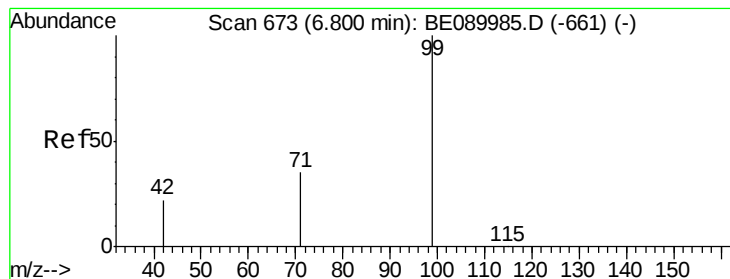


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.55 ng

RT: 6.79 min Scan# 670

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

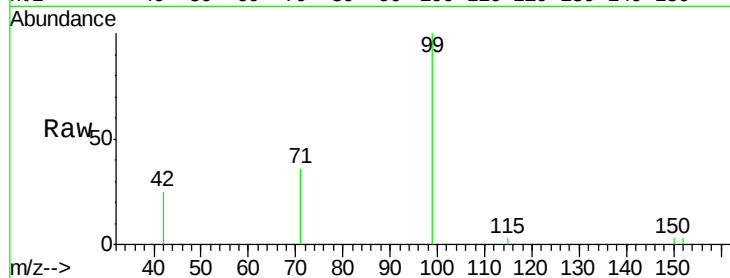
Tgt Ion: 99 Resp: 3161

Ion Ratio Lower Upper

99 100

42 20.9 18.7 28.1

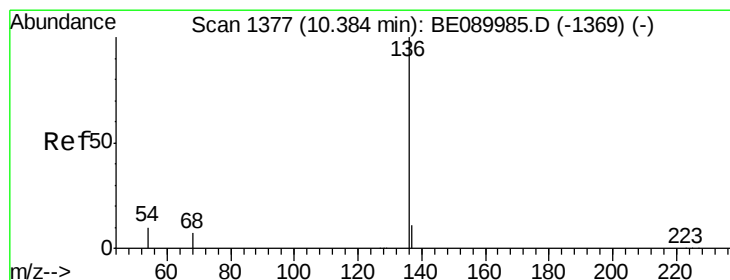
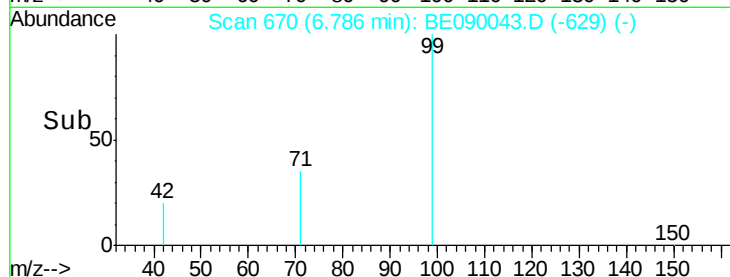
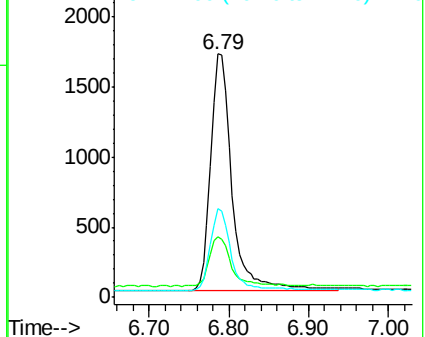
71 33.2 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 1375

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Tgt Ion: 136 Resp: 78518

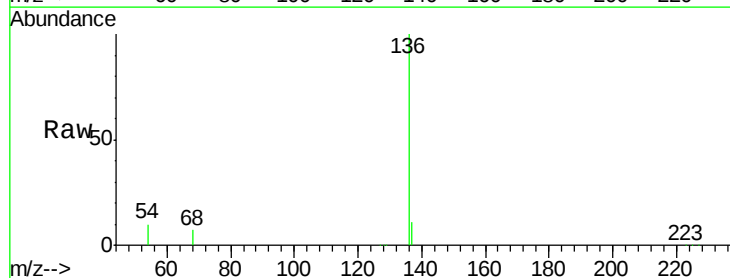
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 10.3 8.2 12.4

68 7.2 5.8 8.8

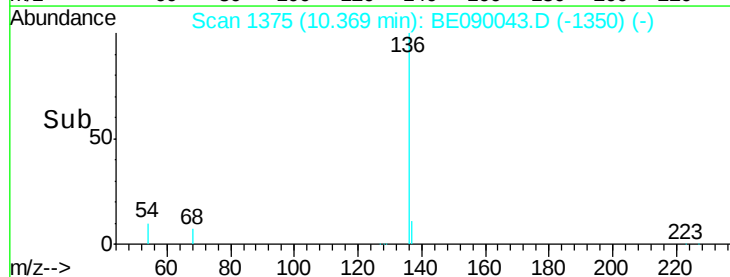
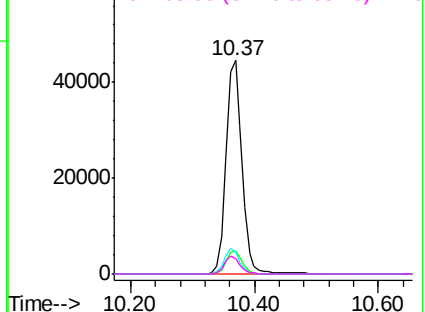


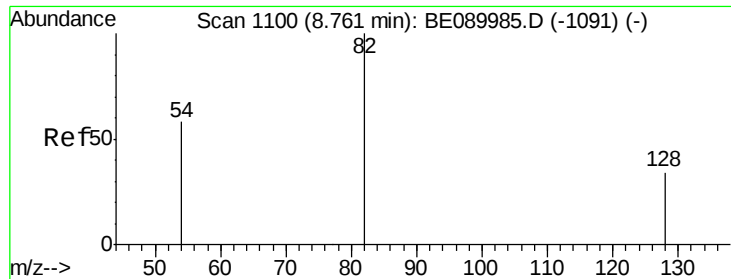
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 0.31 ng

RT: 8.75 min Scan# 1097

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

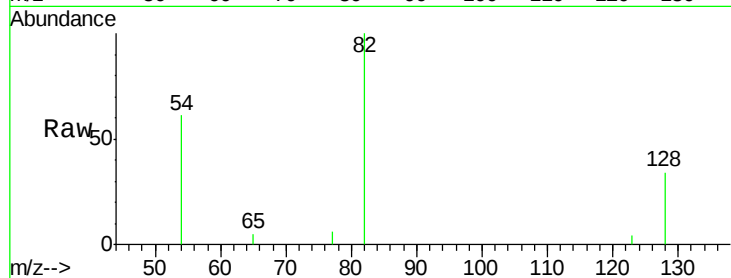
Tgt Ion: 82 Resp: 1947

Ion Ratio Lower Upper

82 100

128 33.8 28.0 42.0

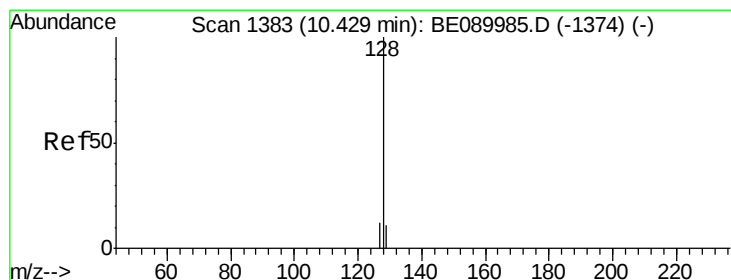
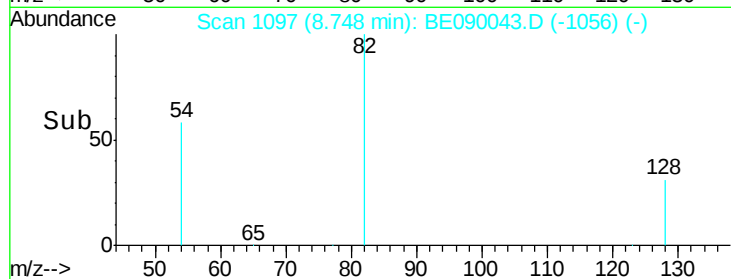
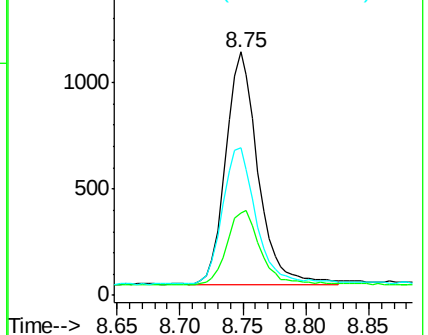
54 60.6 47.6 71.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.08 ng

RT: 10.41 min Scan# 1381

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

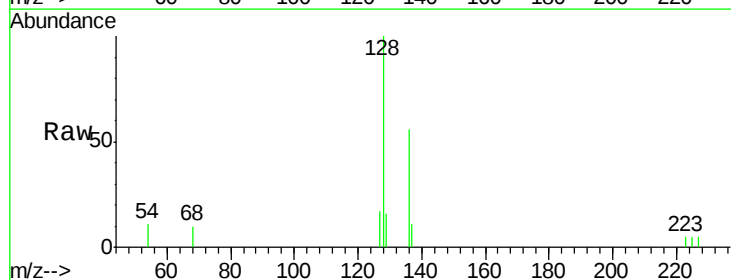
Tgt Ion: 128 Resp: 1489

Ion Ratio Lower Upper

128 100

129 15.5 9.3 13.9#

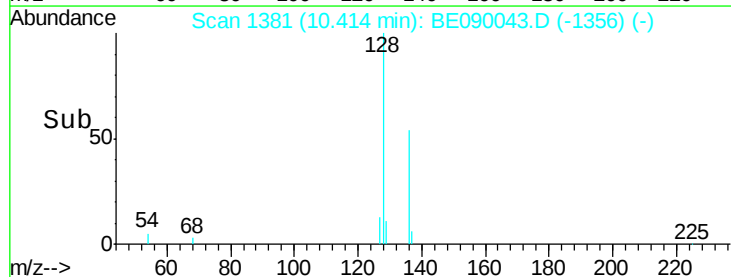
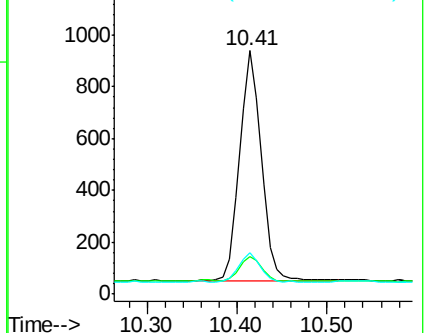
127 16.8 10.2 15.4#

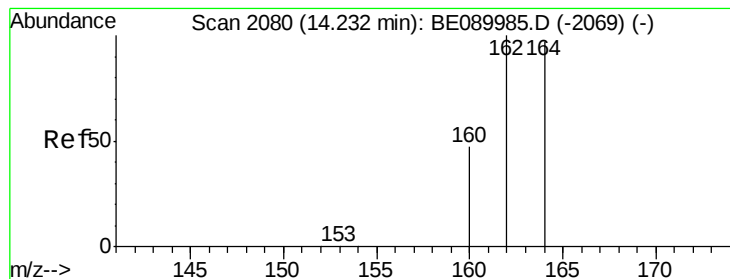


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.22 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

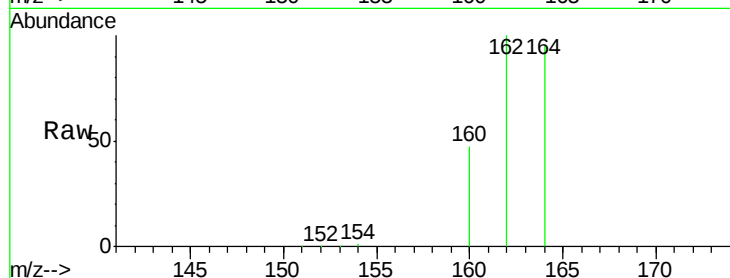
Tgt Ion:164 Resp: 45826

Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.4

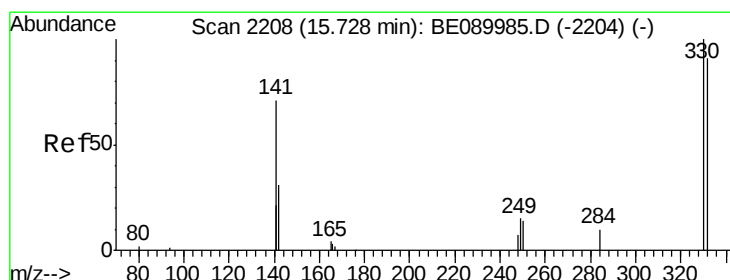
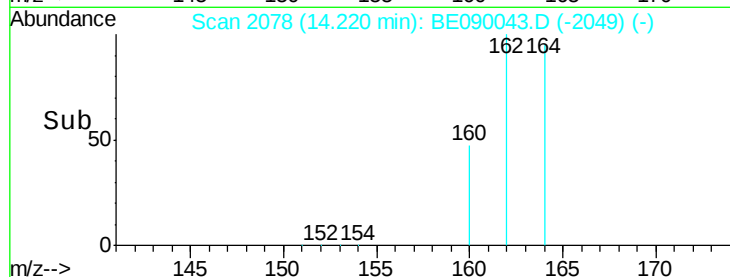
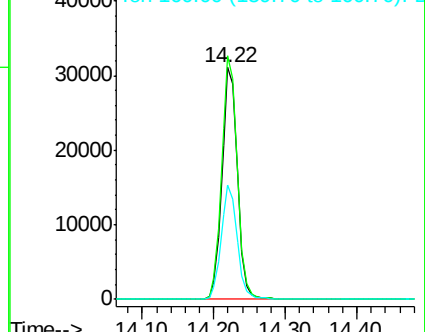
160 49.2 39.0 58.6



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



#13

2,4,6-Tribromophenol

Concen: 0.37 ng

RT: 15.73 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

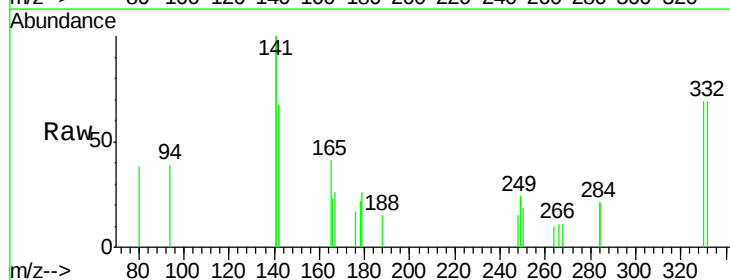
Tgt Ion:330 Resp: 496

Ion Ratio Lower Upper

330 100

332 95.2 76.4 114.6

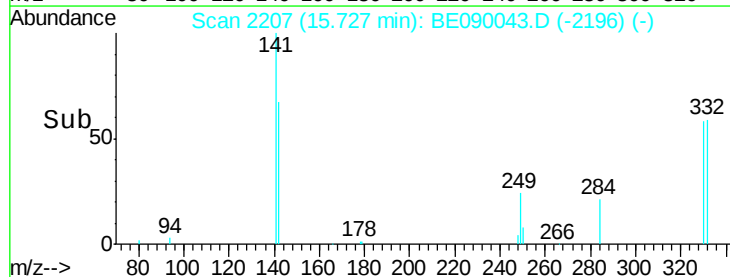
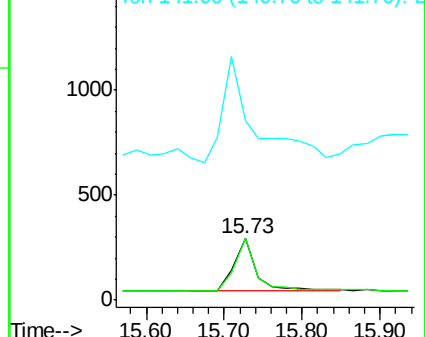
141 287.1 130.3 195.5#

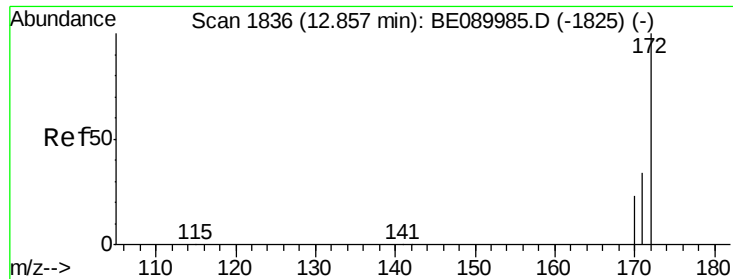


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

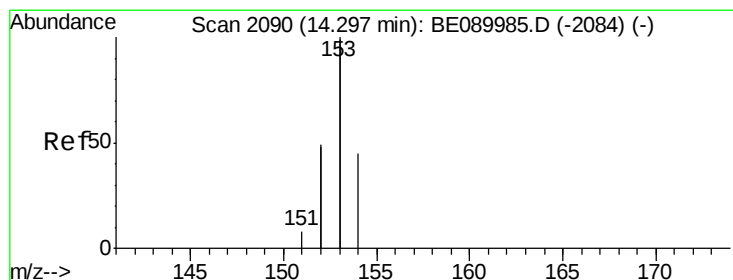
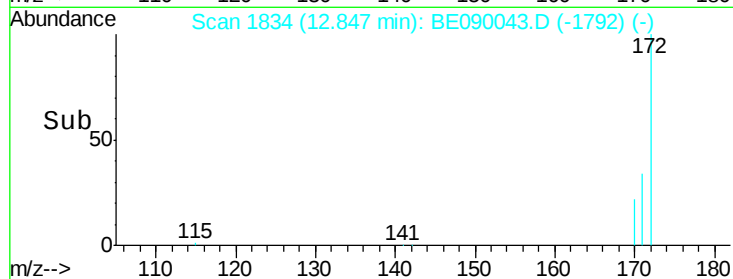
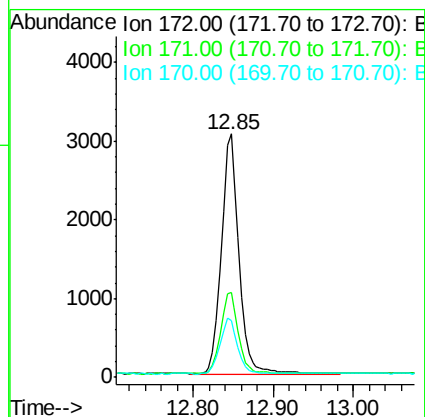
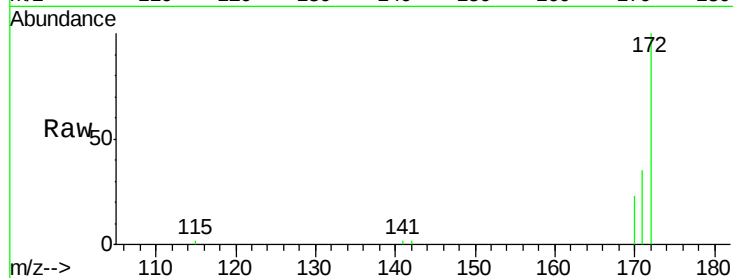




#14
2-Fluorobiphenyl
Concen: 0.34 ng
RT: 12.85 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BE090043.D
Acq: 1 Jul 2015 15:05

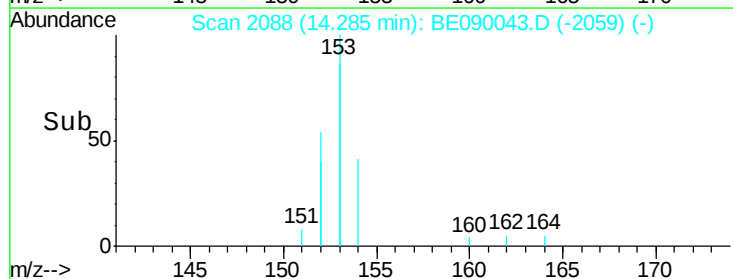
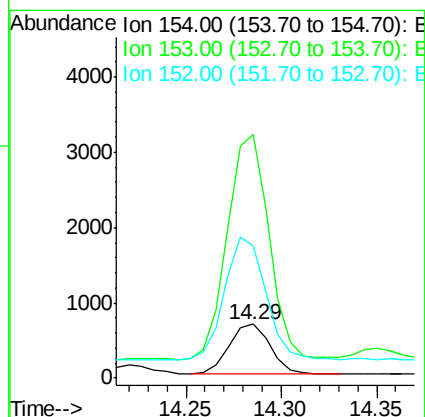
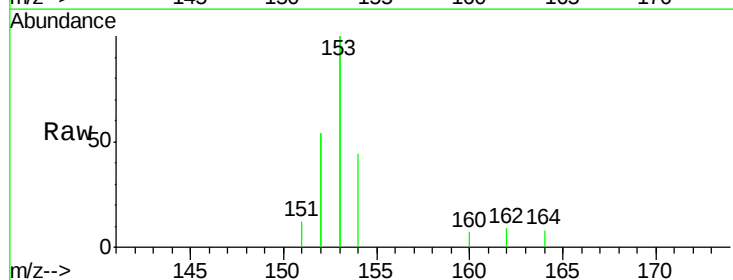
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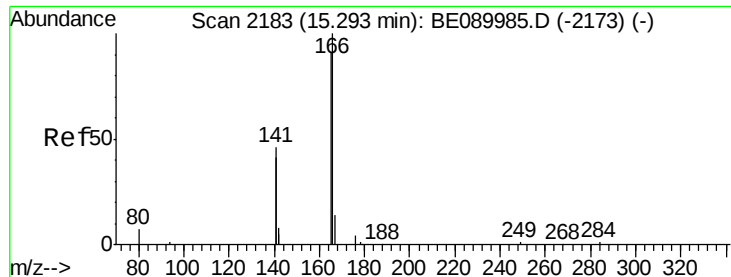
Tgt Ion:172 Resp: 4691
Ion Ratio Lower Upper
172 100
171 34.7 27.8 41.6
170 23.4 18.3 27.5



#16
Acenaphthene
Concen: 0.08 ng
RT: 14.29 min Scan# 2088
Delta R.T. -0.01 min
Lab File: BE090043.D
Acq: 1 Jul 2015 15:05

Tgt Ion:154 Resp: 984
Ion Ratio Lower Upper
154 100
153 463.6 358.6 538.0
152 252.3 189.6 284.4

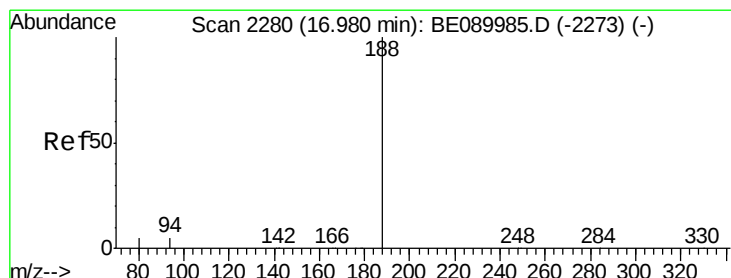
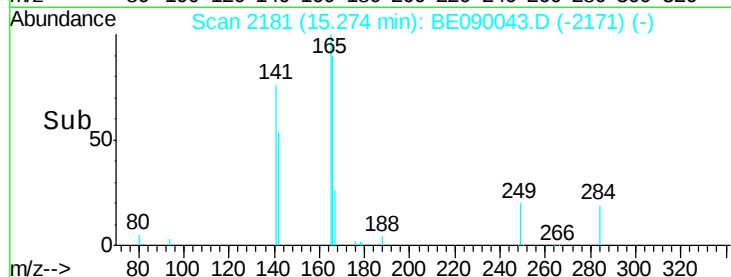
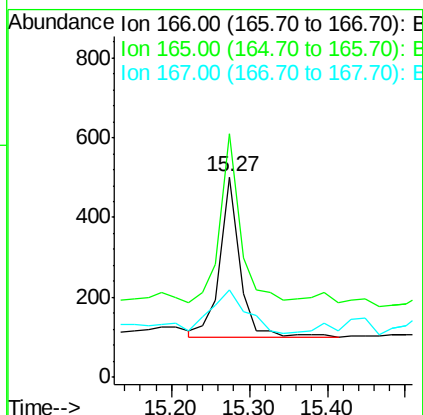
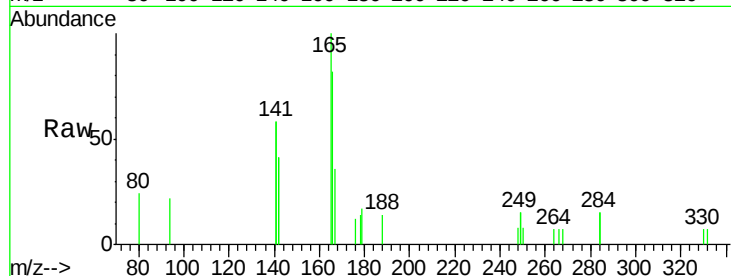




#17
Fluorene
 Concen: 0.04 ng
 RT: 15.27 min Scan# 2181
 Delta R.T. -0.02 min
 Lab File: BE090043.D
 Acq: 1 Jul 2015 15:05

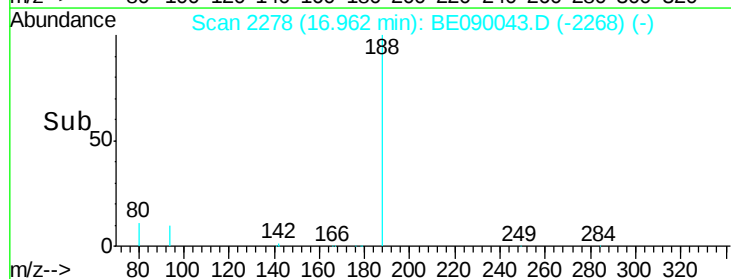
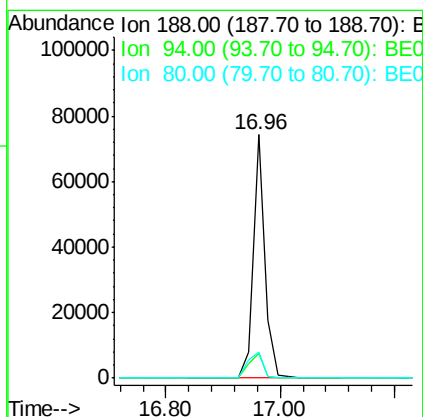
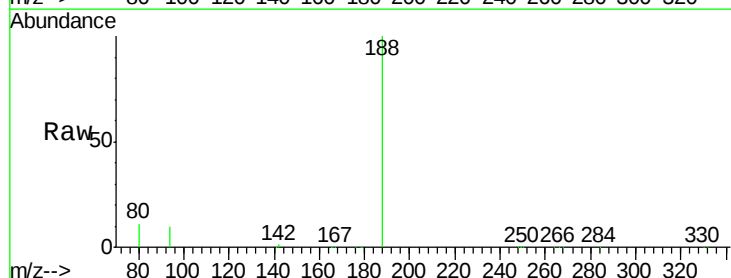
Instrument :
 BNA_E
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 X1SS0520006-150625DL

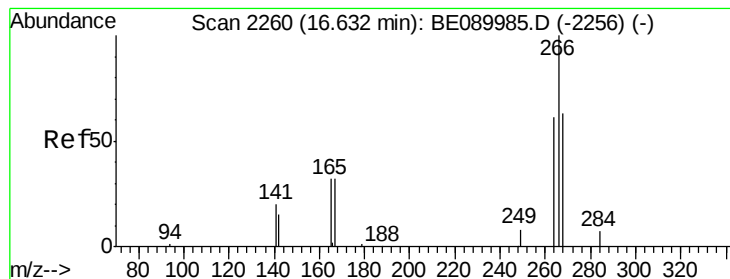
Tgt Ion:166 Resp: 703
 Ion Ratio Lower Upper
 166 100
 165 108.8 79.0 118.6
 167 47.5 11.8 17.8#



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.96 min Scan# 2278
 Delta R.T. -0.02 min
 Lab File: BE090043.D
 Acq: 1 Jul 2015 15:05

Tgt Ion:188 Resp: 106575
 Ion Ratio Lower Upper
 188 100
 94 10.0 4.1 6.1#
 80 10.7 4.2 6.2#





#21

Pentachlorophenol

Concen: 0.26 ng

RT: 16.63 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

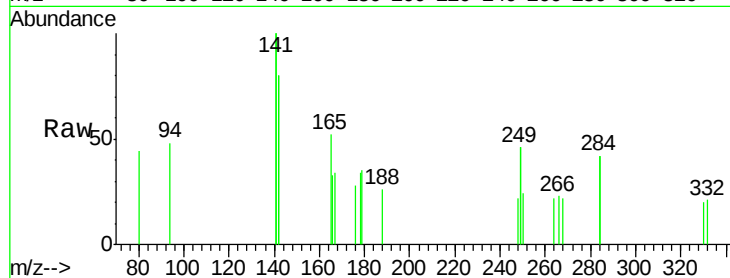
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

268 98.0 51.8 77.8#

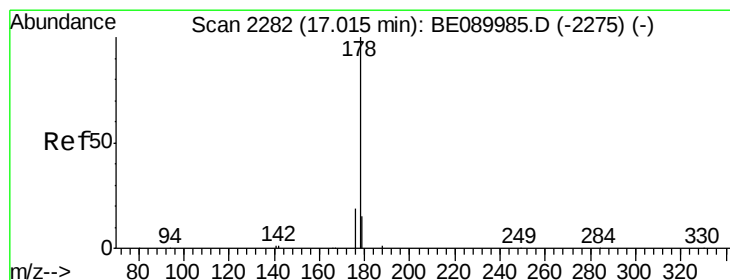
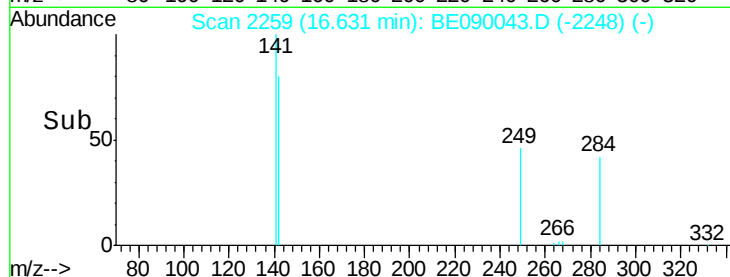
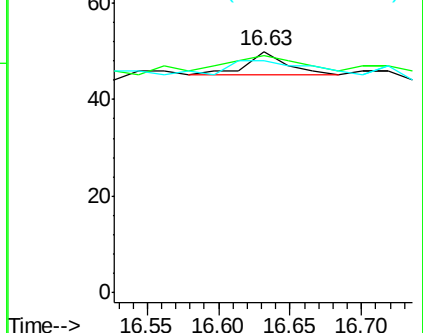
264 96.0 50.2 75.2#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#22

Phenanthrene

Concen: 0.94 ng

RT: 17.00 min Scan# 2280

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

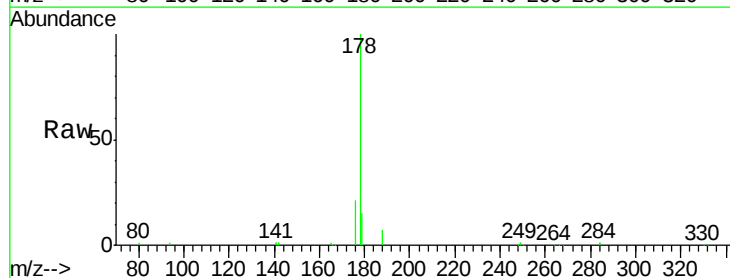
Tgt Ion:178 Resp: 25632

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

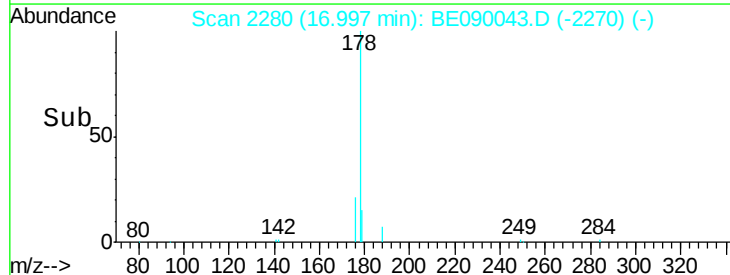
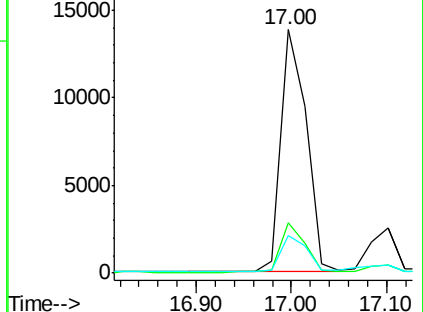
179 15.8 12.4 18.6

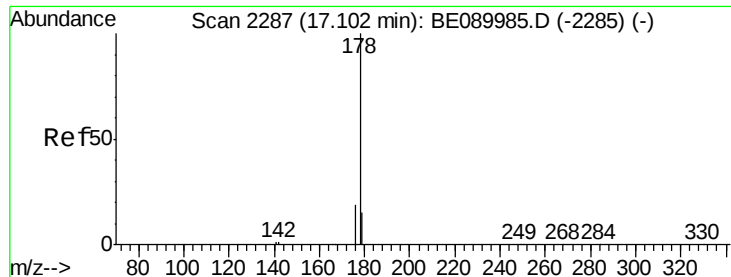


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 1.03 ng

RT: 17.00 min Scan# 2280

Delta R.T. -0.11 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

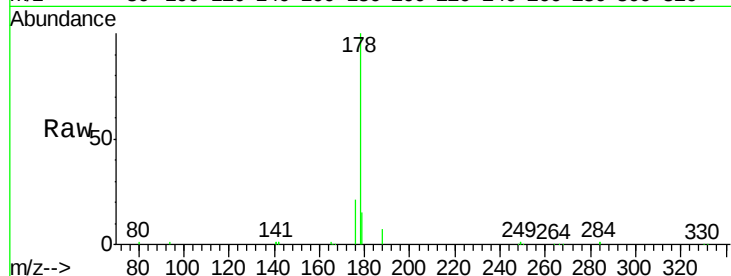
Tgt Ion:178 Resp: 25633

Ion Ratio Lower Upper

178 100

176 19.5 14.7 22.1

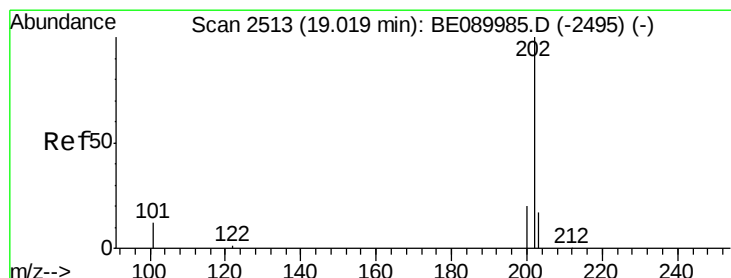
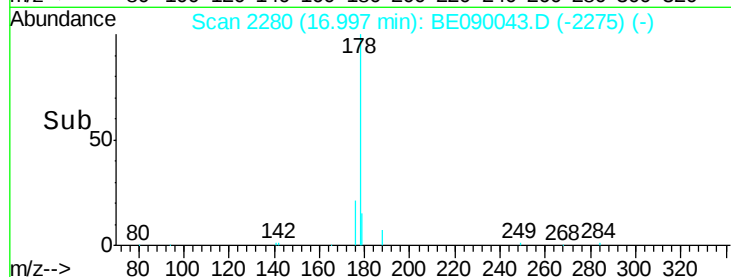
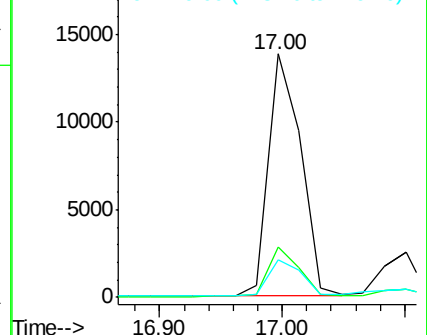
179 15.8 12.1 18.1



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



#24

Fluoranthene

Concen: 2.86 ng

RT: 19.00 min Scan# 2509

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

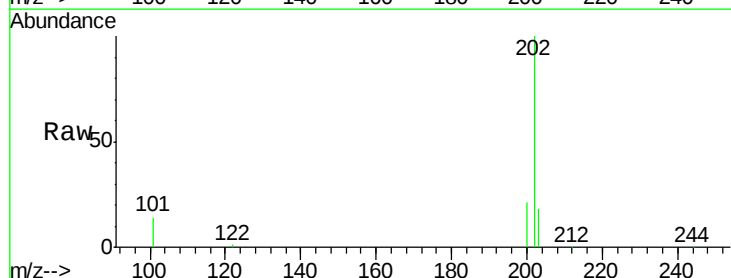
Tgt Ion:202 Resp: 87279

Ion Ratio Lower Upper

202 100

101 13.2 10.6 15.8

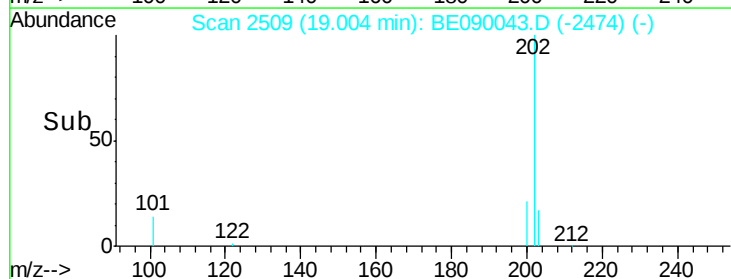
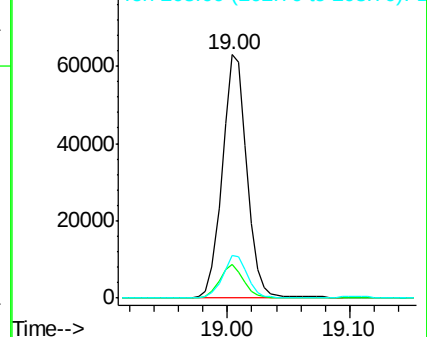
203 17.4 13.8 20.6

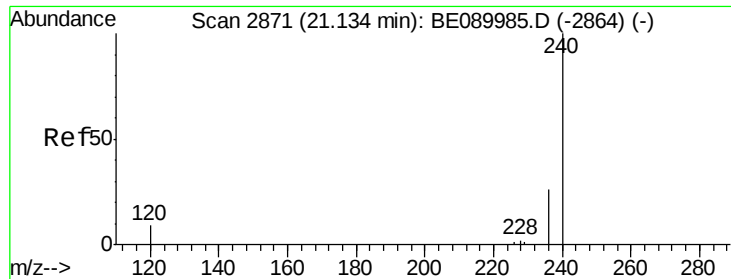


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.12 min Scan# 2867

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

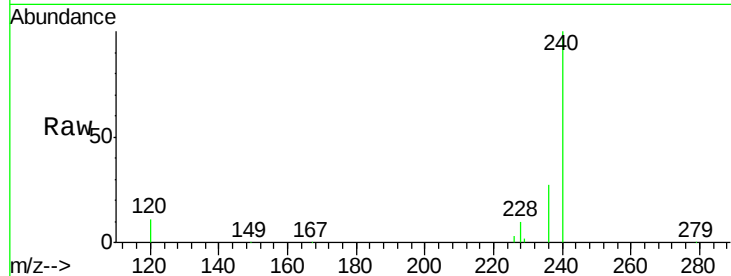
Tgt Ion:240 Resp: 132714

Ion Ratio Lower Upper

240 100

120 11.0 6.9 10.3#

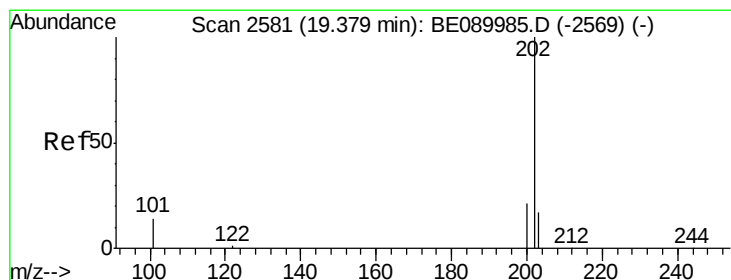
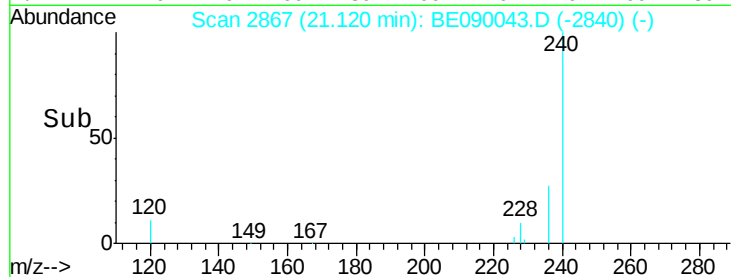
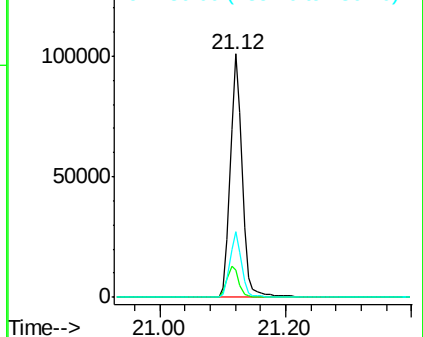
236 26.9 20.8 31.2



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



#26

Pyrene

Concen: 2.61 ng

RT: 19.36 min Scan# 2577

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

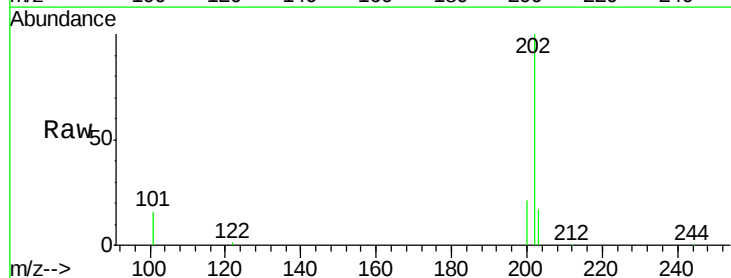
Tgt Ion:202 Resp: 82661

Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

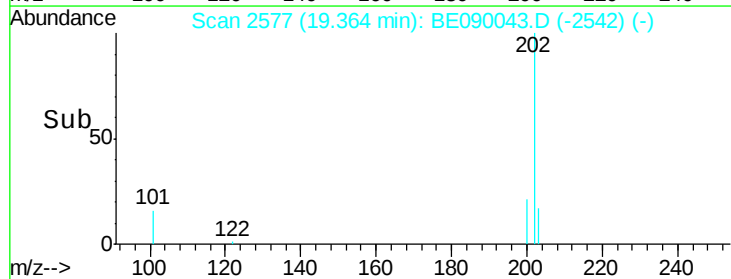
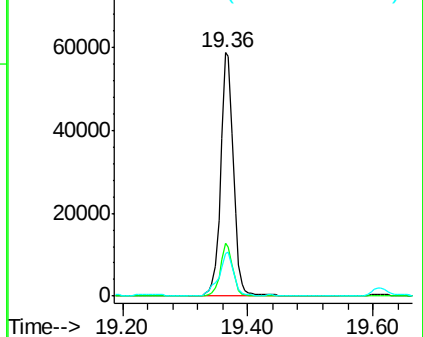
203 20.6 13.9 20.9

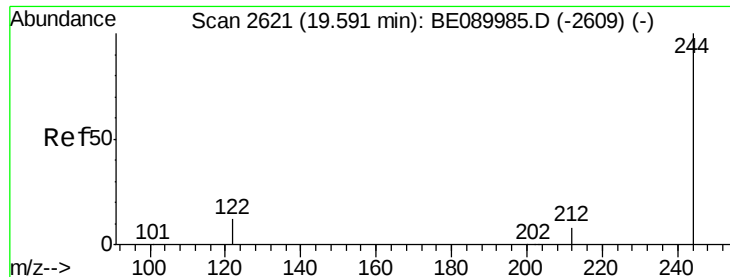


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

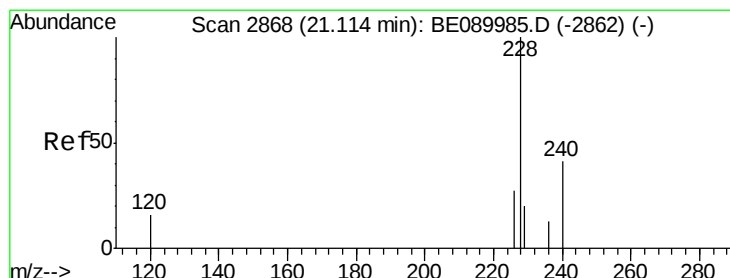
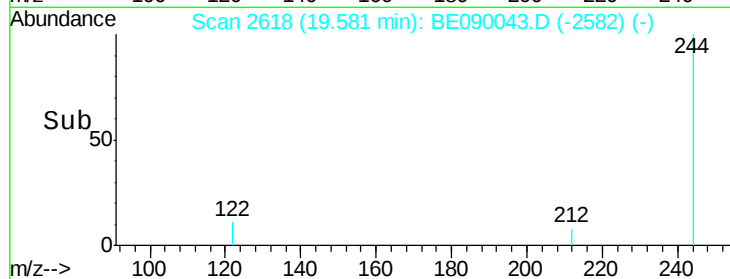
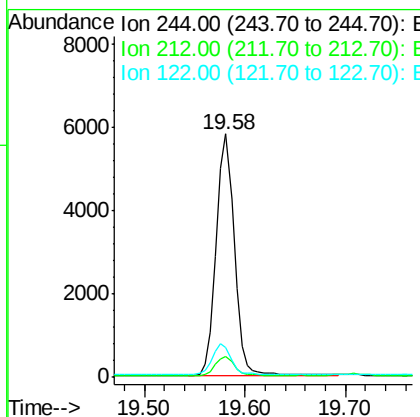
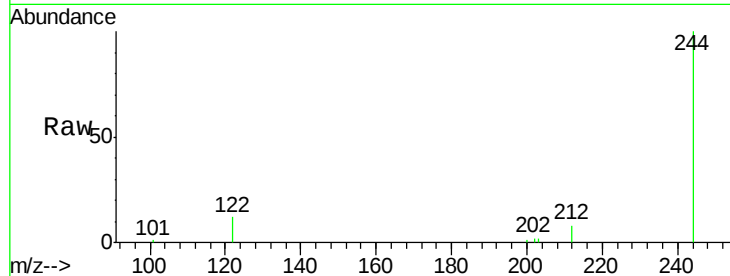




#27
 Terphenyl-d14
 Concen: 0.33 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090043.D
 Acq: 1 Jul 2015 15:05

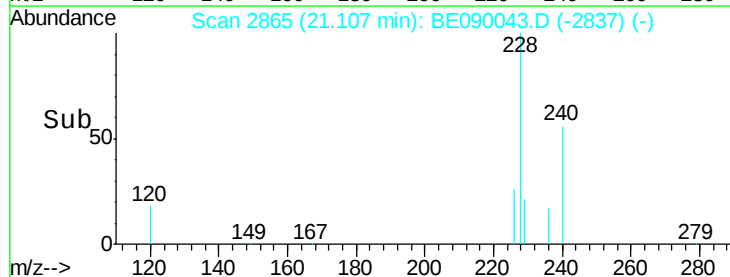
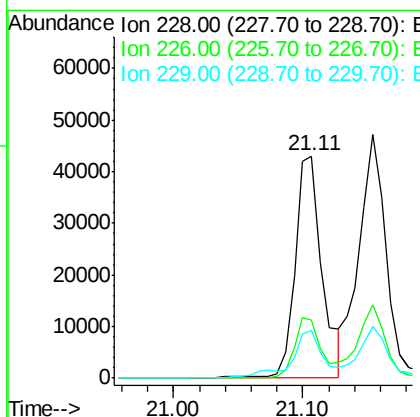
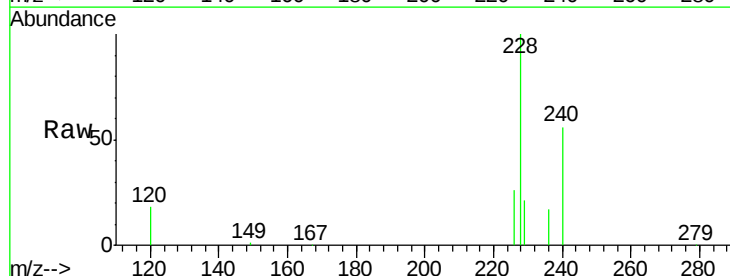
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625DL

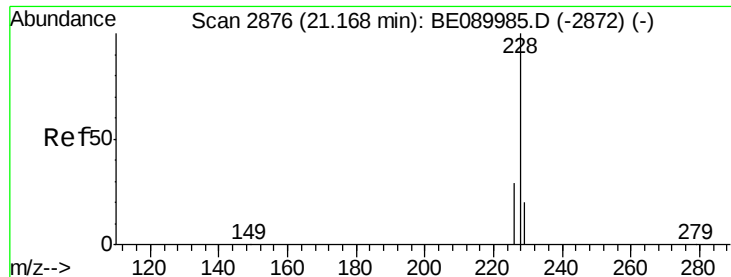
Tgt Ion: 244 Resp: 7263
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.6 9.8
 122 12.1 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 1.88 ng
 RT: 21.11 min Scan# 2865
 Delta R.T. -0.01 min
 Lab File: BE090043.D
 Acq: 1 Jul 2015 15:05

Tgt Ion: 228 Resp: 62348
 Ion Ratio Lower Upper
 228 100
 226 26.1 21.8 32.6
 229 21.4 15.8 23.6





#29

Chrysene

Concen: 2.00 ng

RT: 21.15 min Scan# 2872

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

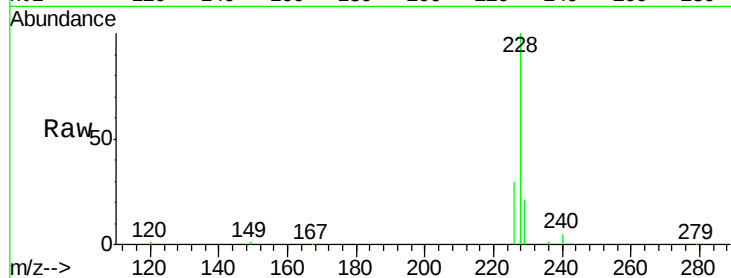
Tgt Ion:228 Resp: 68966

Ion Ratio Lower Upper

228 100

226 30.1 23.4 35.0

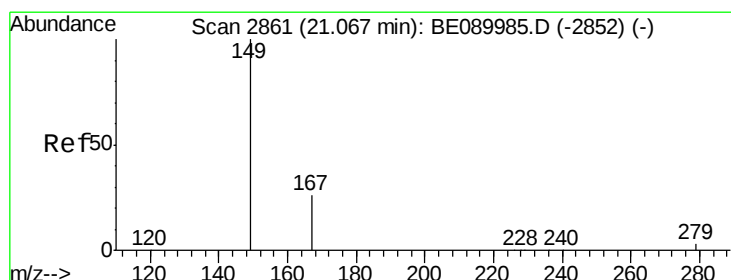
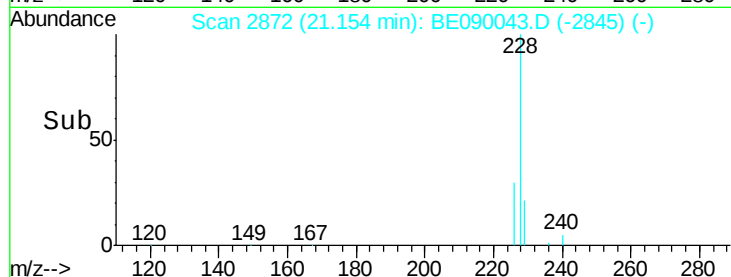
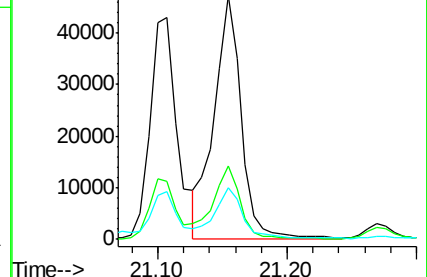
229 21.2 16.2 24.2



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.32 ng

RT: 21.05 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

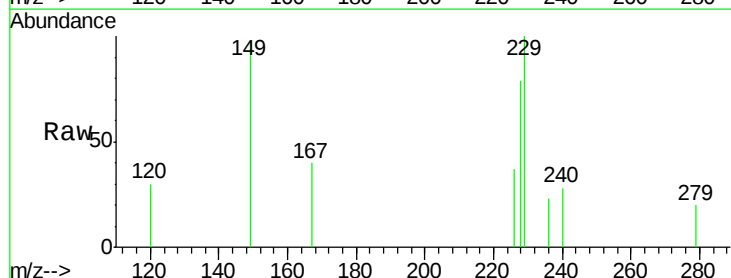
Tgt Ion:149 Resp: 209

Ion Ratio Lower Upper

149 100

167 35.4 20.3 30.5#

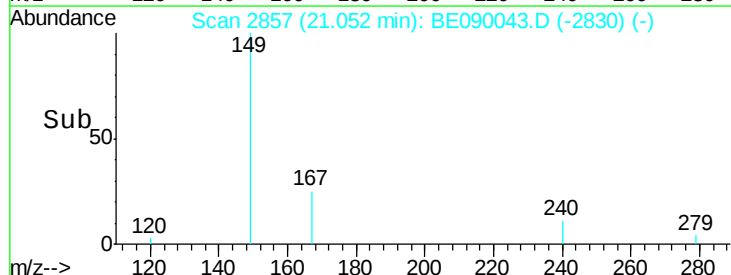
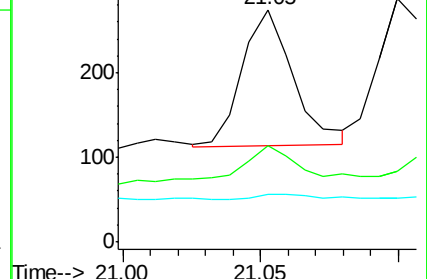
279 5.3 2.6 3.8#

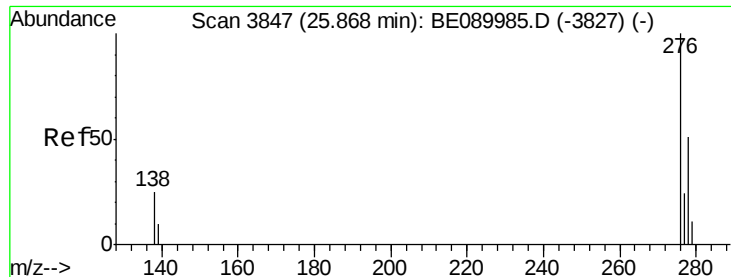


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 1.05 ng

RT: 25.83 min Scan# 3838

Delta R.T. -0.04 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

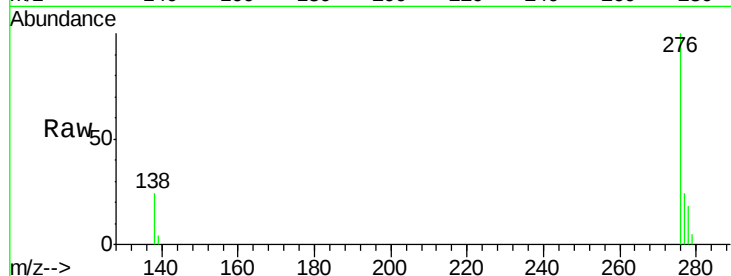
Tgt Ion:276 Resp: 34751

Ion Ratio Lower Upper

276 100

138 24.5 21.3 31.9

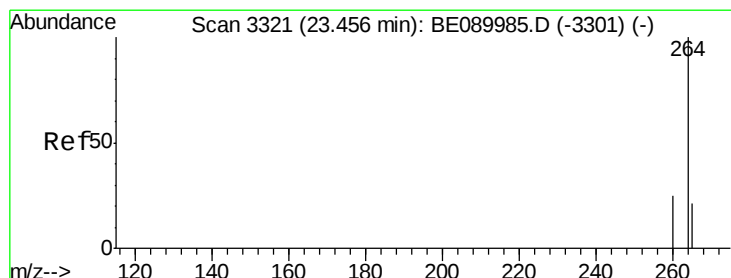
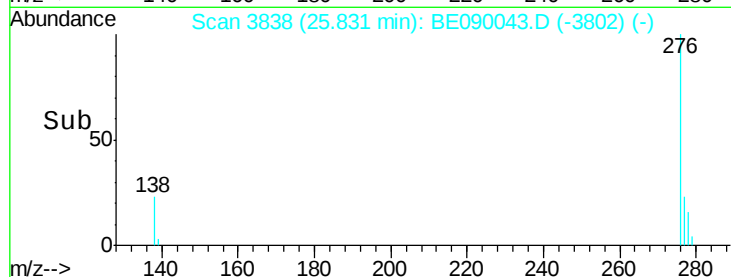
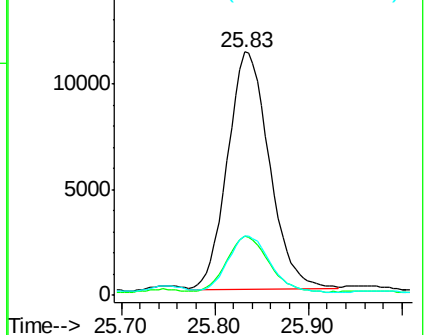
277 23.9 19.7 29.5



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



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.44 min Scan# 3316

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

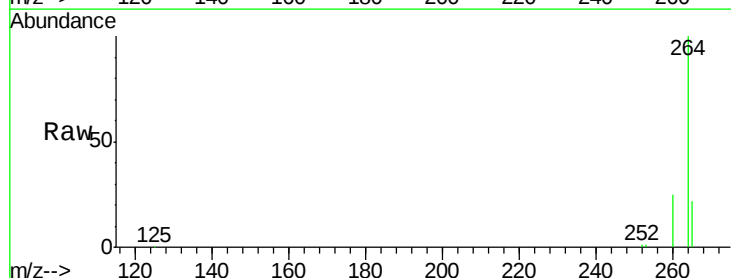
Tgt Ion:264 Resp: 125802

Ion Ratio Lower Upper

264 100

260 24.6 20.2 30.2

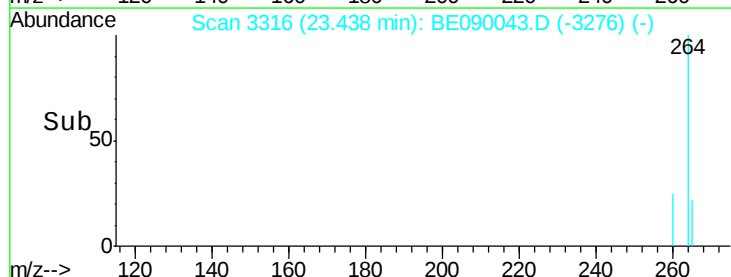
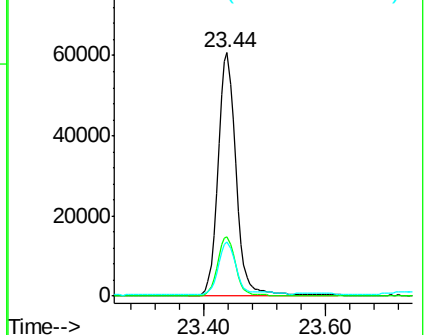
265 22.3 17.1 25.7

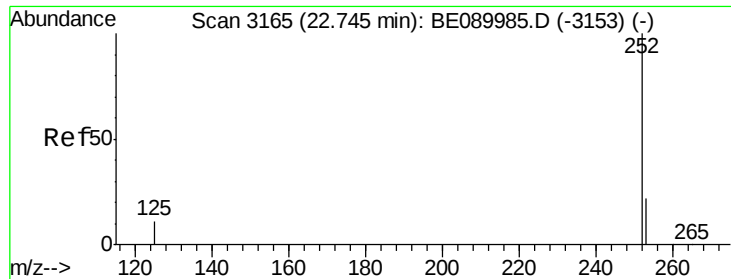


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

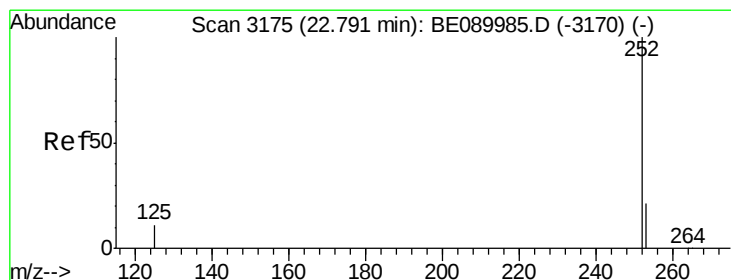
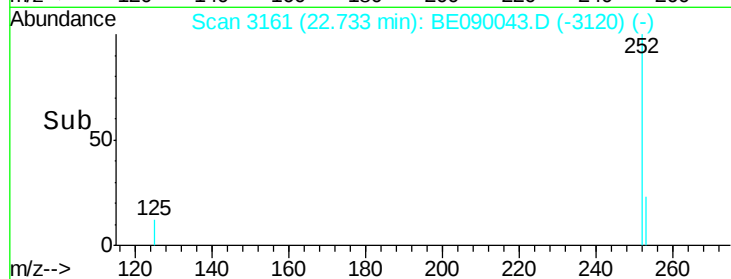
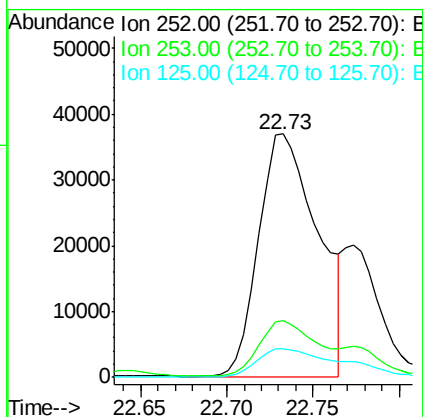
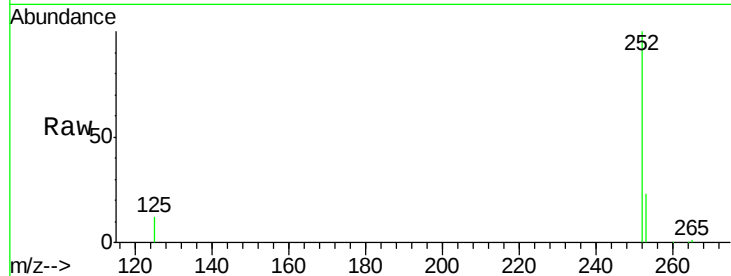




#33
Benzo(b)fluoranthene
Concen: 3.18 ng
RT: 22.73 min Scan# 3161
Delta R.T. -0.01 min
Lab File: BE090043.D
Acq: 1 Jul 2015 15:05

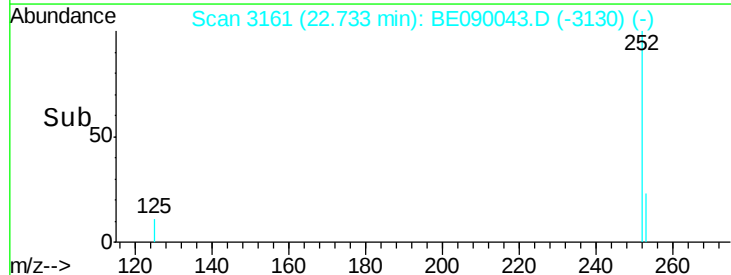
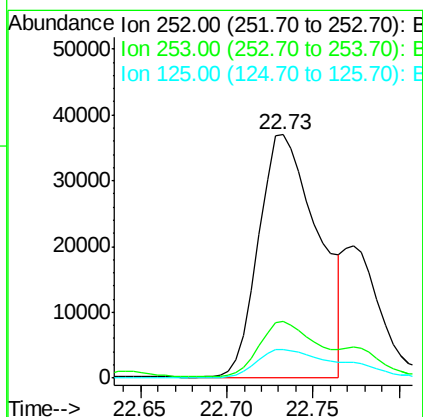
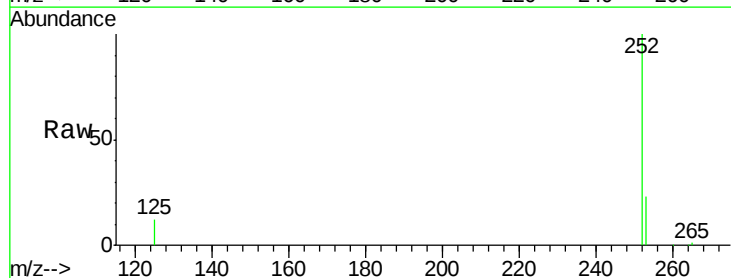
Instrument :
BNA_E
ClientSampleId :
X1SS0520006-150625DL

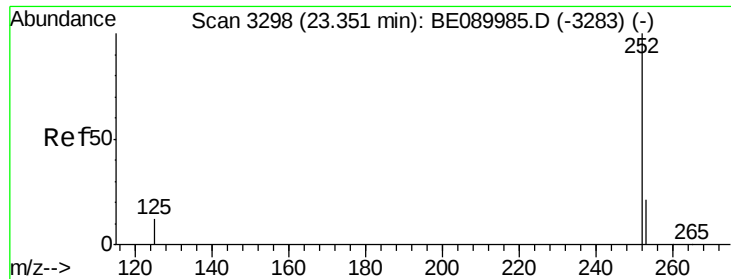
Tgt Ion: 252 Resp: 88158
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 11.8 9.0 13.4



#34
Benzo(k)fluoranthene
Concen: 2.84 ng
RT: 22.73 min Scan# 3161
Delta R.T. -0.06 min
Lab File: BE090043.D
Acq: 1 Jul 2015 15:05

Tgt Ion: 252 Resp: 88158
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 11.8 9.5 14.3





#35

Benzo(a)pyrene

Concen: 2.25 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

Instrument :

BNA_E

ClientSampleId :

X1SS0520006-150625DL

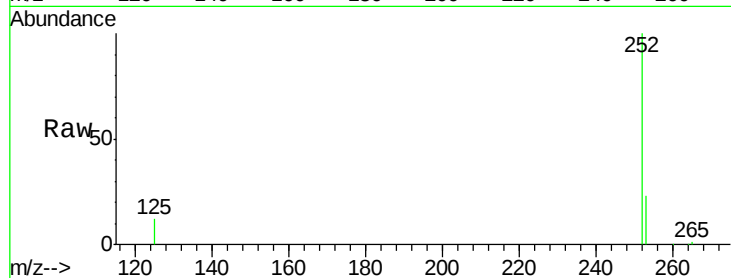
Tgt Ion:252 Resp: 57556

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

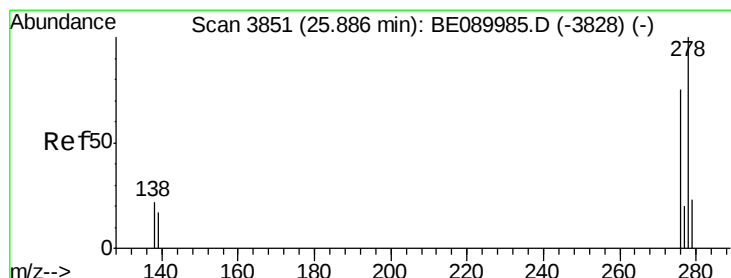
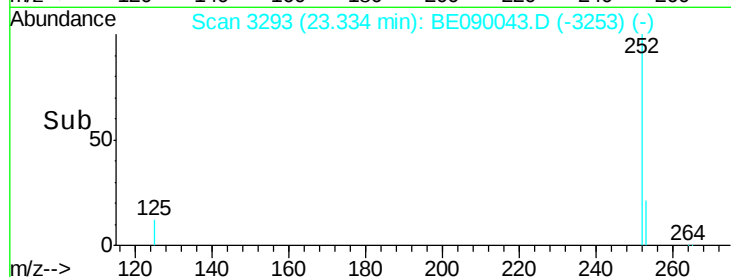
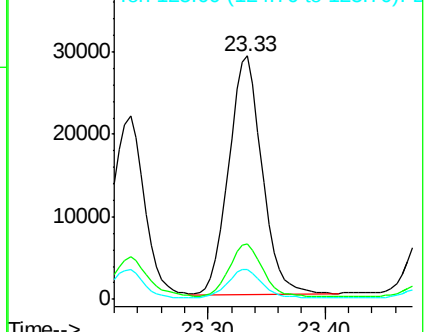
125 12.3 10.5 15.7



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



#36

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 25.85 min Scan# 3842

Delta R.T. -0.04 min

Lab File: BE090043.D

Acq: 1 Jul 2015 15:05

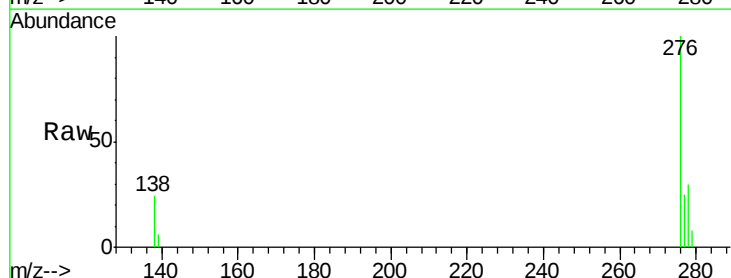
Tgt Ion:278 Resp: 8846

Ion Ratio Lower Upper

278 100

139 19.3 14.4 21.6

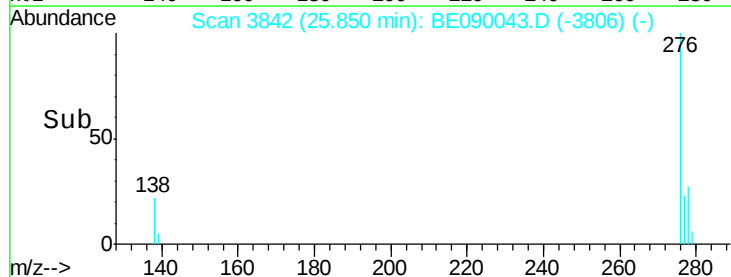
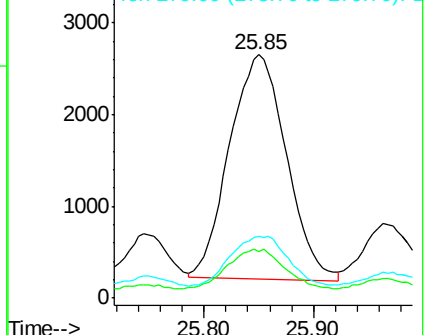
279 25.5 19.0 28.6

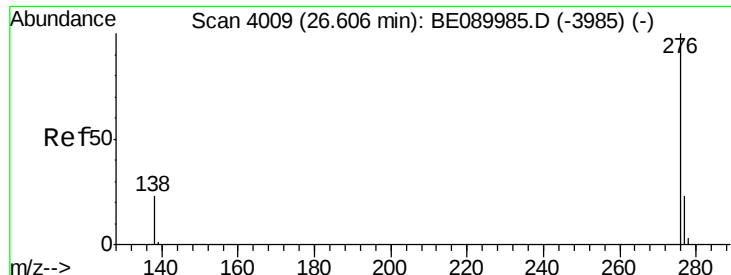


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

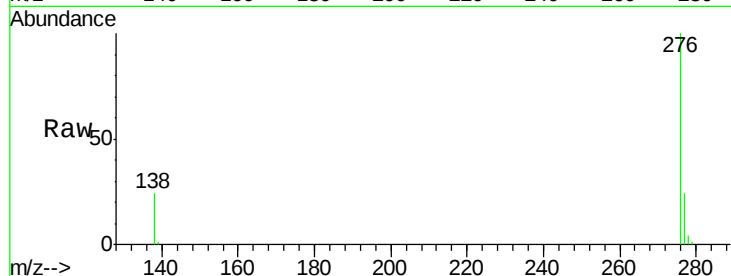




#37
 Benzo(g,h,i)perylene
 Concen: 1.35 ng
 RT: 26.57 min Scan# 4001
 Delta R.T. -0.03 min
 Lab File: BE090043.D
 Acq: 1 Jul 2015 15:05

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0520006-150625DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.8	28.2
138	24.1	18.6	27.8



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

