

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE063015\
 Data File : BE090030.D
 Acq On : 1 Jul 2015 4:08
 Operator : TP/IZ
 Sample : G2810-07DL 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0690624-150625DL

Quant Time: Jul 01 06:20:32 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

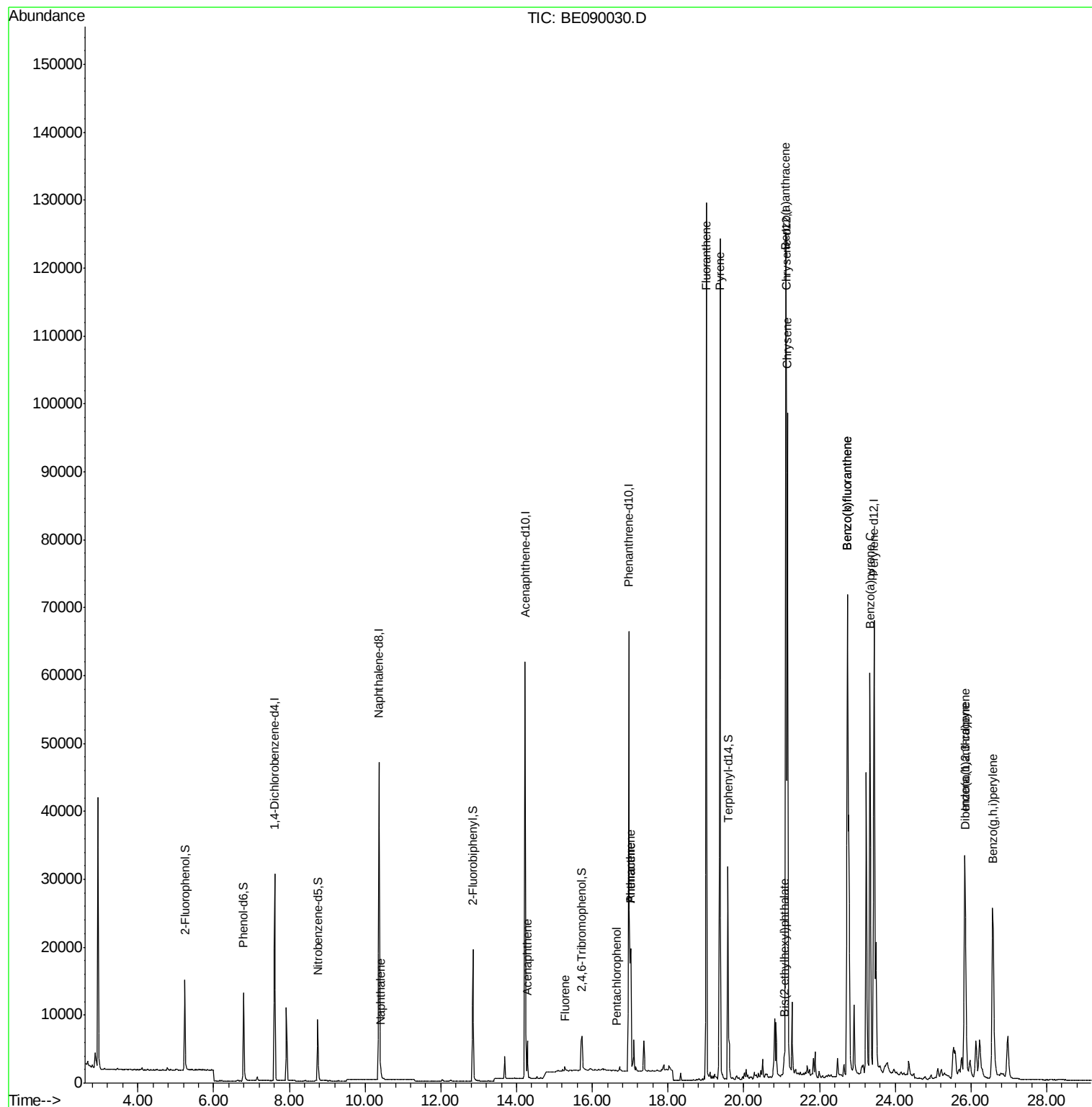
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	14534	5.00	ng	-0.01
6) Naphthalene-d8	10.37	136	62828	5.00	ng	-0.01
12) Acenaphthene-d10	14.23	164	35224	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	81383	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	101593	5.00	ng	-0.01
32) Perylene-d12	23.44	264	97005	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	9694	2.90	ng	-0.01
5) Phenol-d6	6.79	99	14102	3.02	ng	0.00
7) Nitrobenzene-d5	8.75	82	8477	1.70	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	2848	2.76	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	19054	1.80	ng	-0.01
27) Terphenyl-d14	19.58	244	31366	1.85	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.41	128	935	0.07	ng	# 84
16) Acenaphthene	14.28	154	960	0.10	ng	91
17) Fluorene	15.27	166	568	0.05	ng	# 80
21) Pentachlorophenol	16.63	266	72	0.30	ng	# 68
22) Phenanthrene	17.01	178	26502	1.27	ng	100
23) Anthracene	17.01	178	26471	1.39	ng	99
24) Fluoranthene	19.01	202	114541	4.92	ng	100
26) Pyrene	19.37	202	111816	4.62	ng	# 95
28) Benzo(a)anthracene	21.10	228	85774	3.38	ng	99
29) Chrysene	21.16	228	90748	3.44	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	1527	0.43	ng	99
31) Indeno(1,2,3-cd)pyrene	25.84	276	54628	2.16	ng	98
33) Benzo(b)fluoranthene	22.73	252	123125	5.75	ng	98
34) Benzo(k)fluoranthene	22.73	252	123125	5.15	ng	98
35) Benzo(a)pyrene	23.33	252	85817	4.34	ng	98
36) Dibenzo(a,h)anthracene	25.86	278	13927	0.69	ng	95
37) Benzo(g,h,i)perylene	26.58	276	59653	2.90	ng	98

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

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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: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

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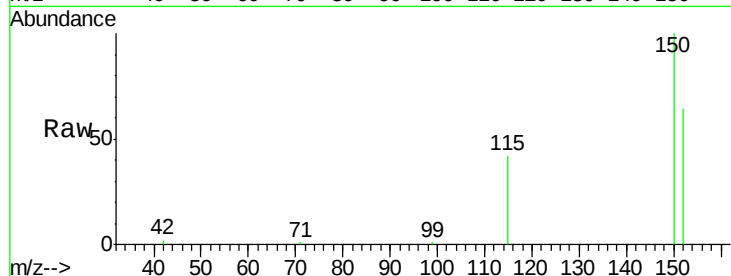
Tgt Ion:152 Resp: 14534

Ion Ratio Lower Upper

152 100

150 157.0 123.9 185.9

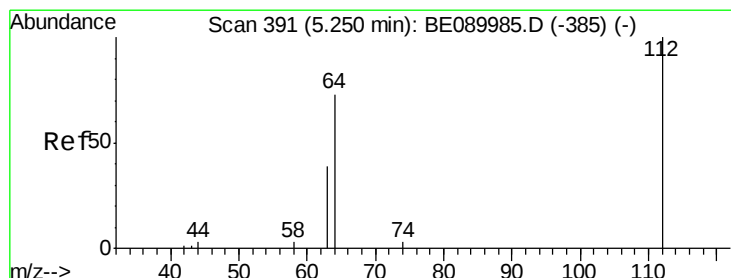
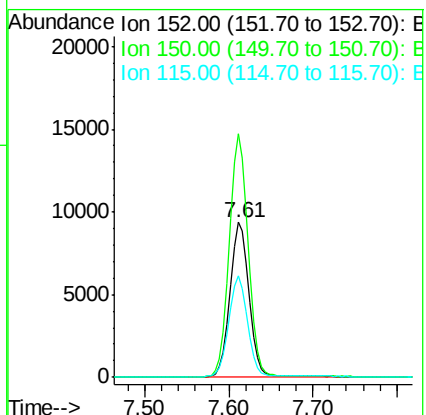
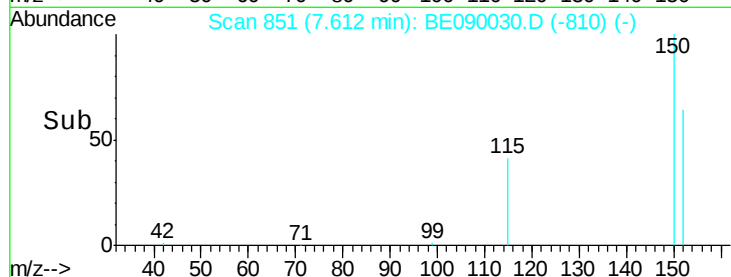
115 65.4 50.6 76.0



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: 2.90 ng

RT: 5.24 min Scan# 389

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

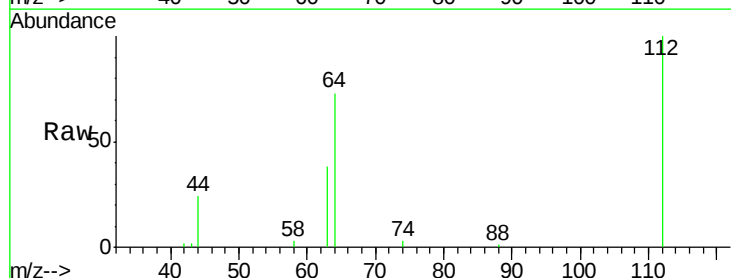
Tgt Ion:112 Resp: 9694

Ion Ratio Lower Upper

112 100

64 70.2 56.3 84.5

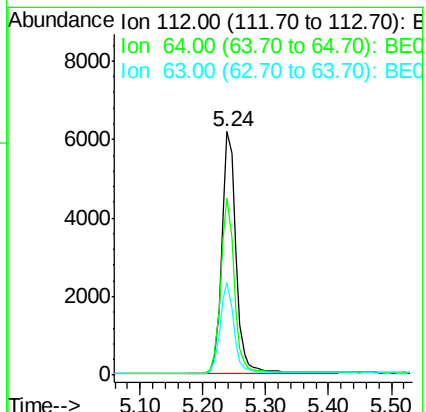
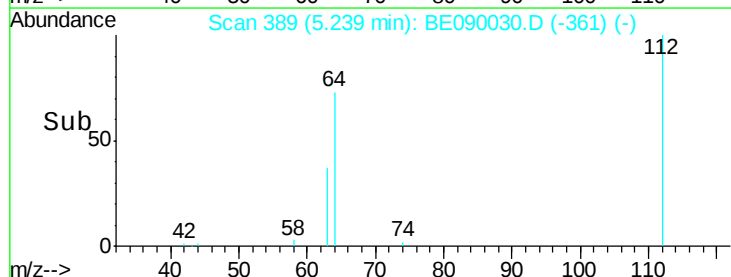
63 36.3 29.8 44.6

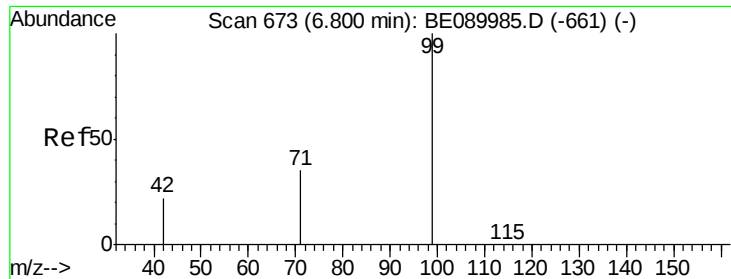


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.02 ng

RT: 6.79 min Scan# 671

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

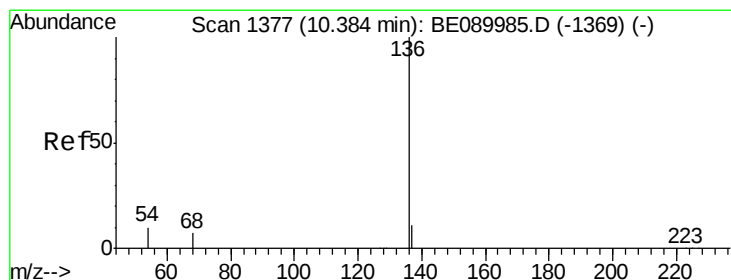
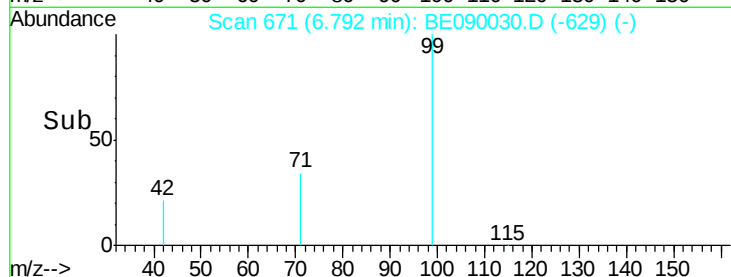
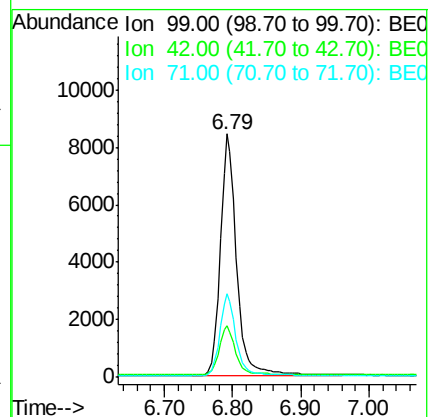
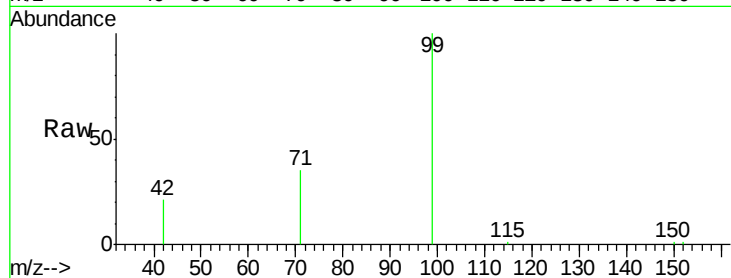
Tgt Ion: 99 Resp: 14102

Ion Ratio Lower Upper

99 100

42 20.3 18.7 28.1

71 34.1 27.5 41.3



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 1375

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Tgt Ion: 136 Resp: 62828

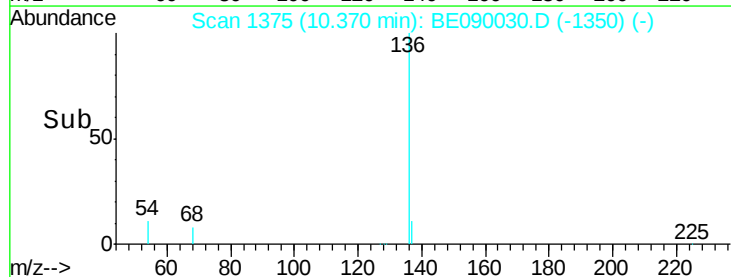
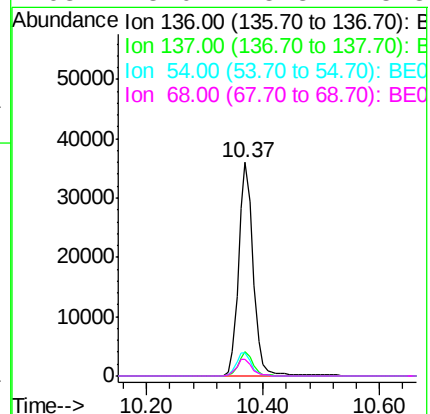
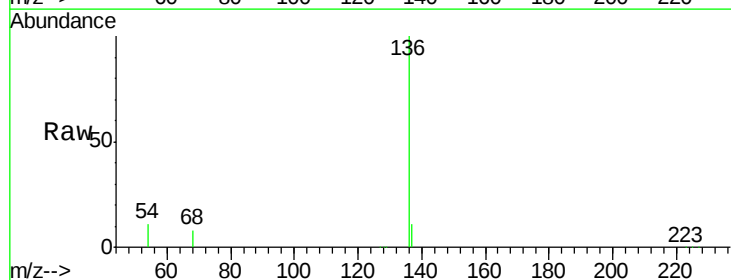
Ion Ratio Lower Upper

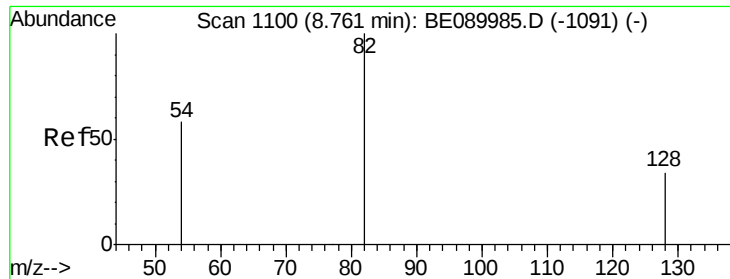
136 100

137 11.3 8.9 13.3

54 11.0 8.2 12.4

68 8.0 5.8 8.8





#7

Nitrobenzene-d5

Concen: 1.70 ng

RT: 8.75 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

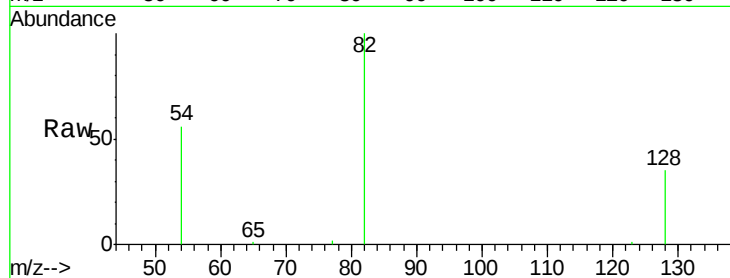
Tgt Ion: 82 Resp: 8477

Ion Ratio Lower Upper

82 100

128 34.8 28.0 42.0

54 55.5 47.6 71.4

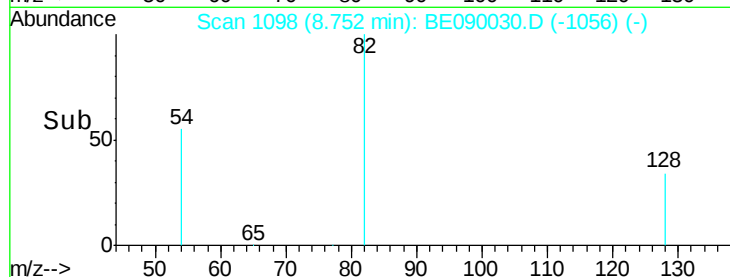


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

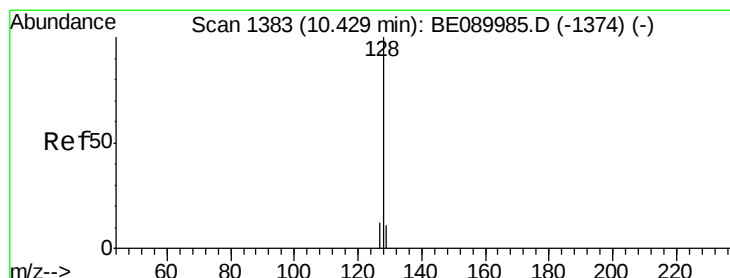
Ion 54.00 (53.70 to 54.70): BE0

Time--> 8.60 8.70 8.80 8.90



8.75

Time--> 8.60 8.70 8.80 8.90



#9

Naphthalene

Concen: 0.07 ng

RT: 10.41 min Scan# 1381

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

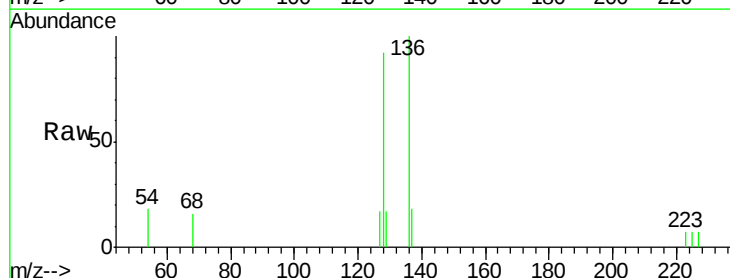
Tgt Ion: 128 Resp: 935

Ion Ratio Lower Upper

128 100

129 18.2 9.3 13.9#

127 18.6 10.2 15.4#

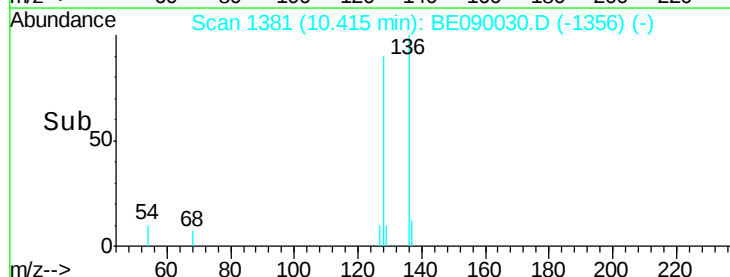


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

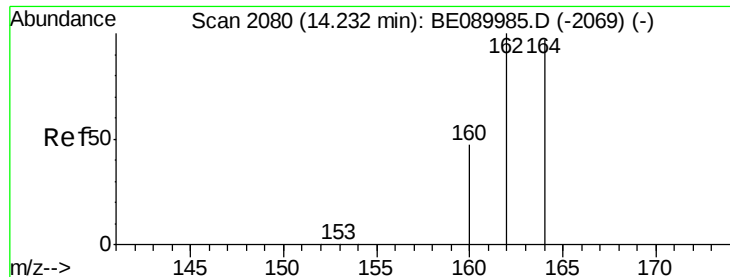
Ion 127.00 (126.70 to 127.70): E

Time--> 10.30 10.40 10.50



10.41

Time--> 10.30 10.40 10.50



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.23 min Scan# 2080

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

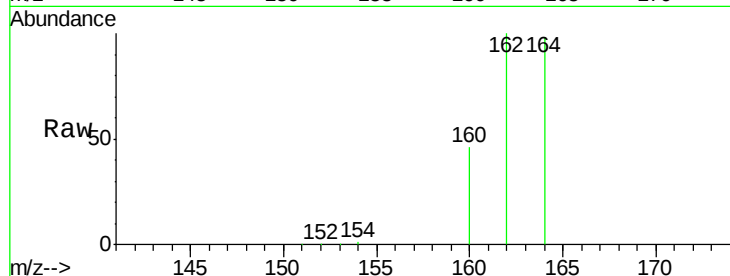
Tgt Ion:164 Resp: 35224

Ion Ratio Lower Upper

164 100

162 101.9 82.2 123.4

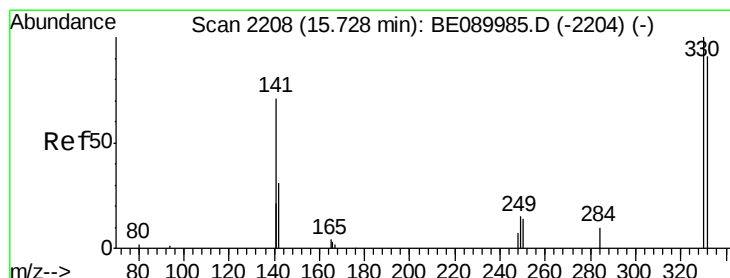
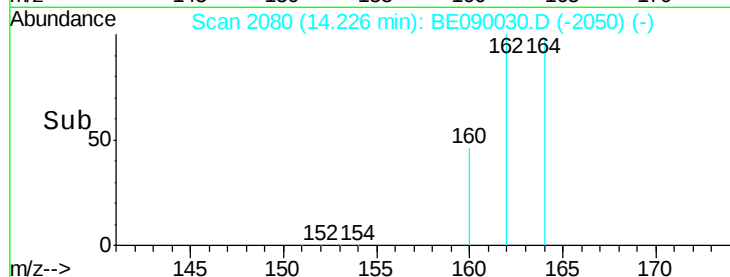
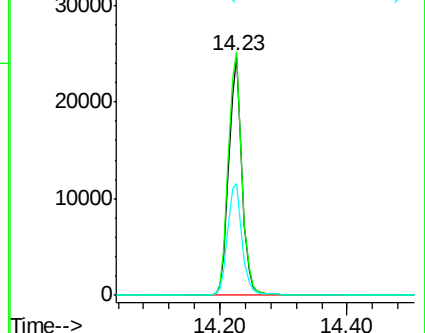
160 46.6 39.0 58.6



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: 2.76 ng

RT: 15.73 min Scan# 2208

Delta R.T. -0.00 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

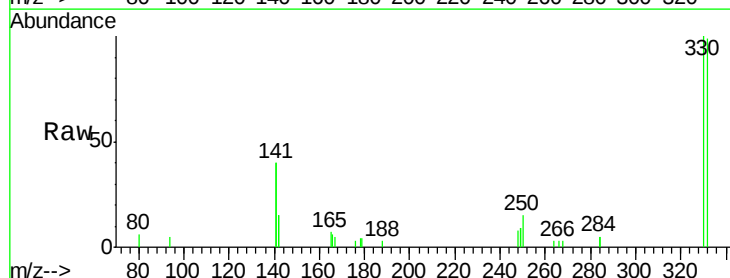
Tgt Ion:330 Resp: 2848

Ion Ratio Lower Upper

330 100

332 97.3 76.4 114.6

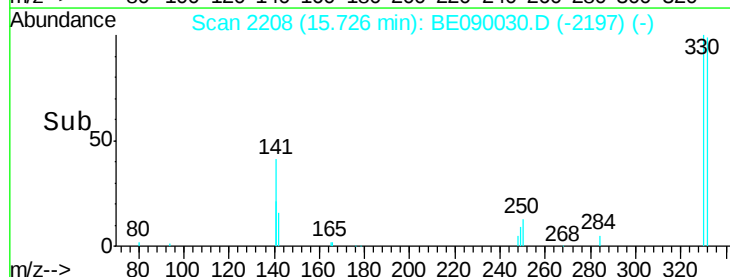
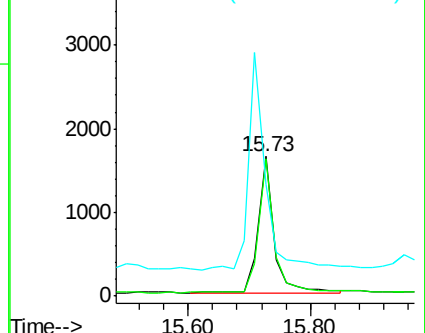
141 176.8 130.3 195.5

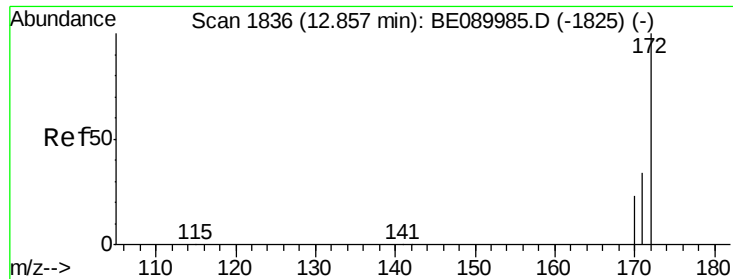


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

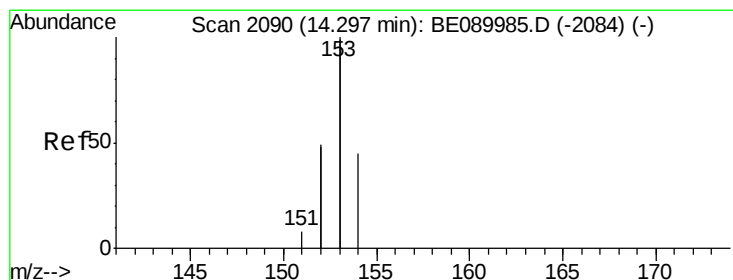
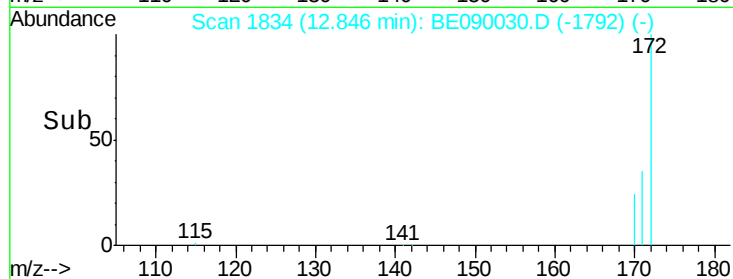
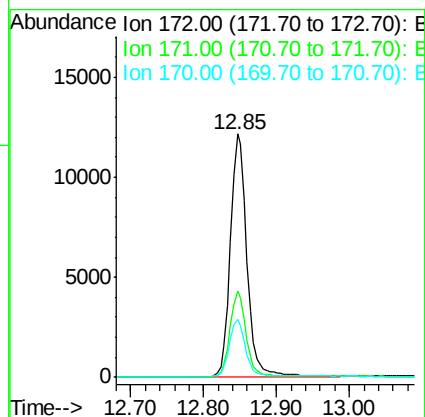
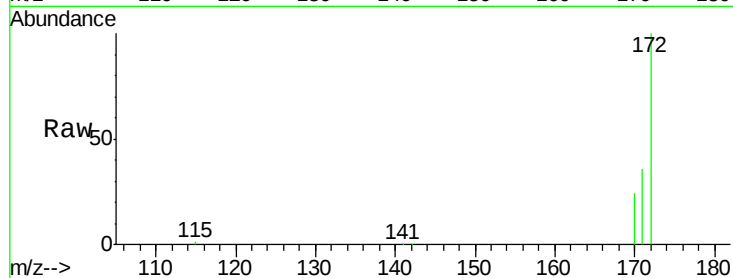




#14
2-Fluorobiphenyl
Concen: 1.80 ng
RT: 12.85 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BE090030.D
Acq: 1 Jul 2015 4:08

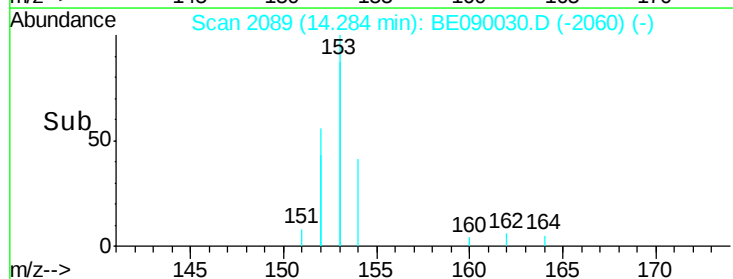
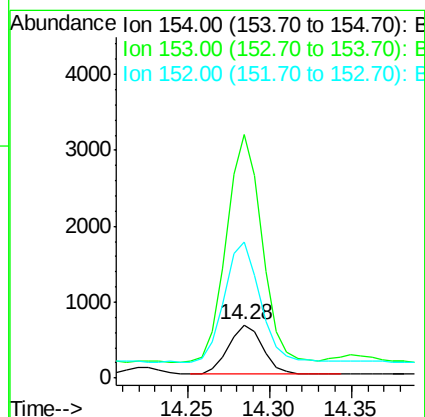
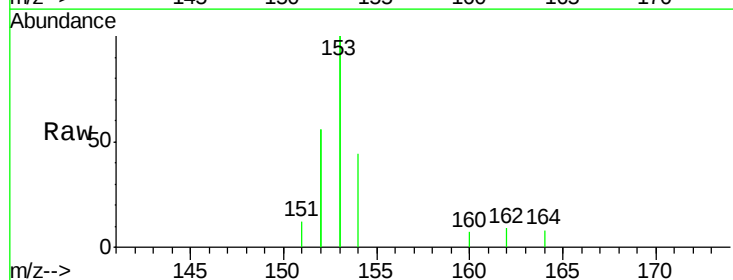
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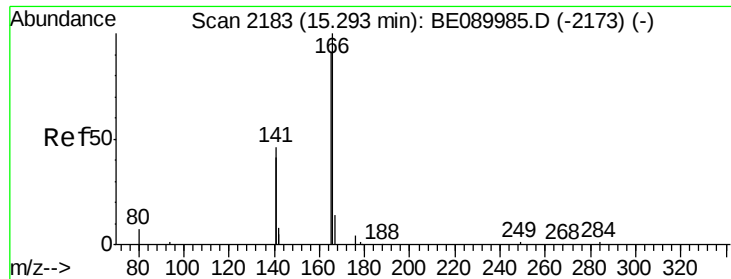
Tgt Ion:172 Resp: 19054
Ion Ratio Lower Upper
172 100
171 35.6 27.8 41.6
170 23.9 18.3 27.5



#16
Acenaphthene
Concen: 0.10 ng
RT: 14.28 min Scan# 2089
Delta R.T. -0.01 min
Lab File: BE090030.D
Acq: 1 Jul 2015 4:08

Tgt Ion:154 Resp: 960
Ion Ratio Lower Upper
154 100
153 466.1 358.6 538.0
152 258.1 189.6 284.4

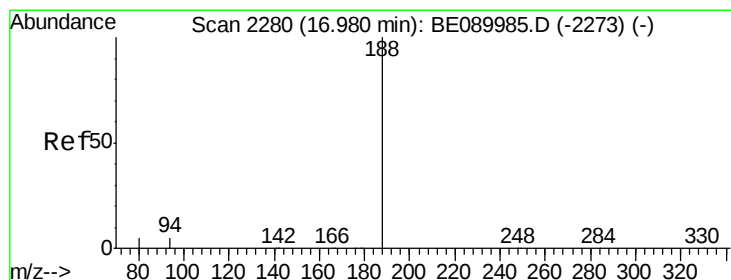
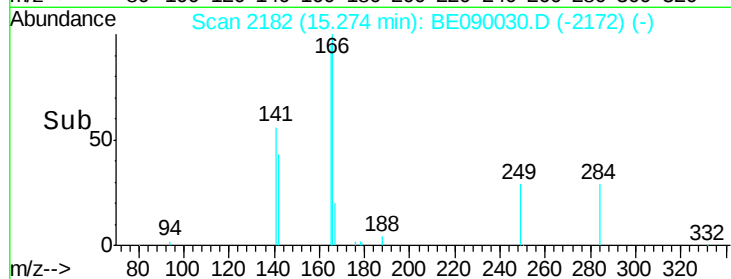
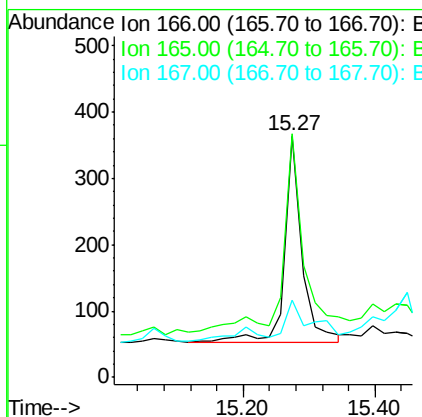
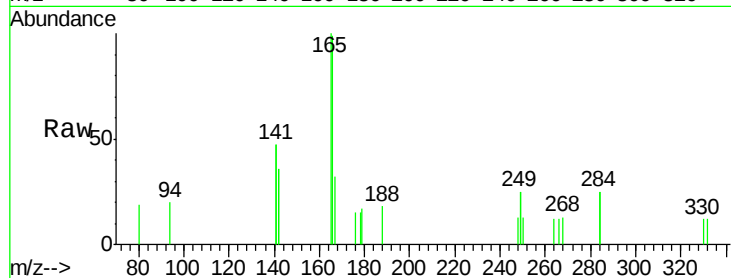




#17
Fluorene
 Concen: 0.05 ng
 RT: 15.27 min Scan# 2182
 Delta R.T. -0.02 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

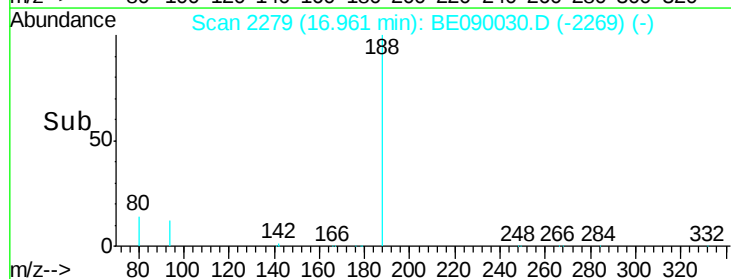
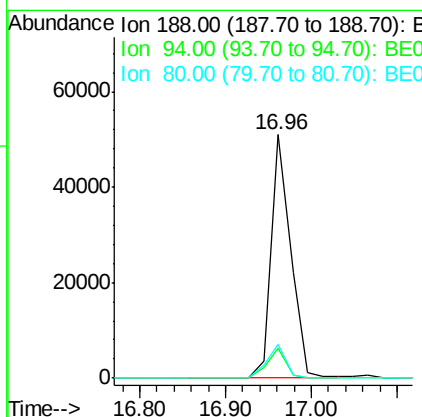
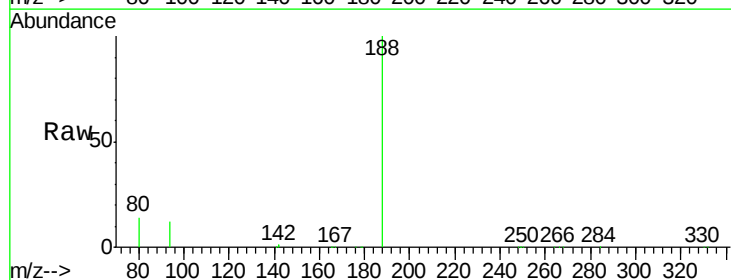
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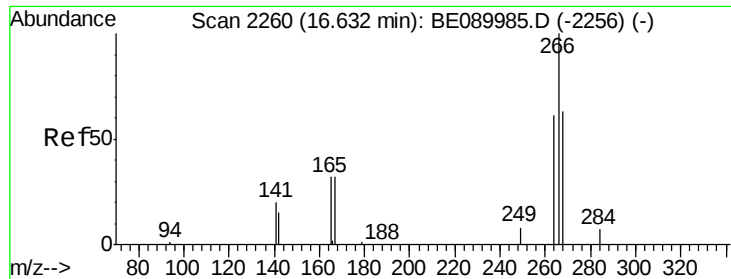
Tgt Ion:166 Resp: 568
 Ion Ratio Lower Upper
 166 100
 165 118.3 79.0 118.6
 167 24.6 11.8 17.8#



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.96 min Scan# 2279
 Delta R.T. -0.02 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

Tgt Ion:188 Resp: 81383
 Ion Ratio Lower Upper
 188 100
 94 12.4 4.1 6.1#
 80 13.7 4.2 6.2#

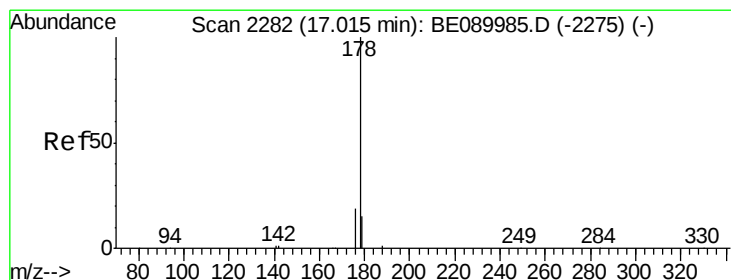
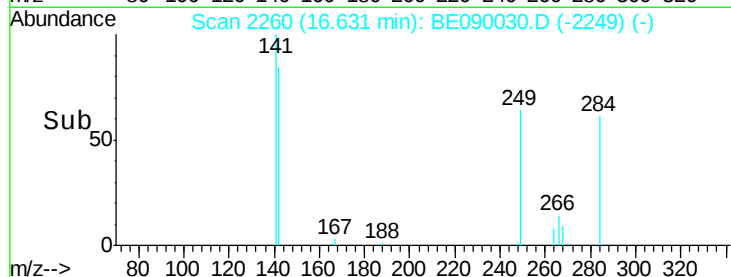
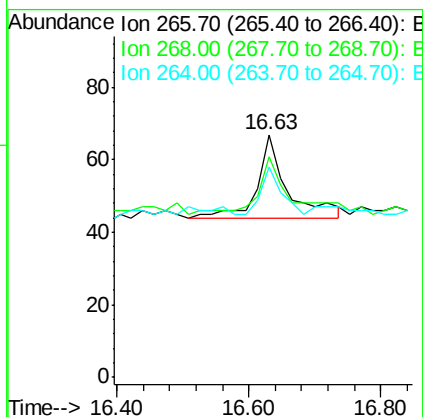
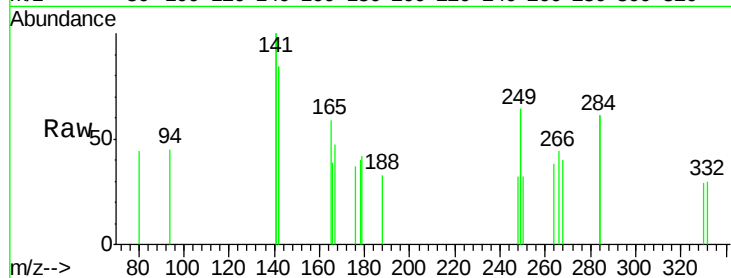




#21
 Pentachlorophenol
 Concen: 0.30 ng
 RT: 16.63 min Scan# 2260
 Delta R.T. -0.00 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

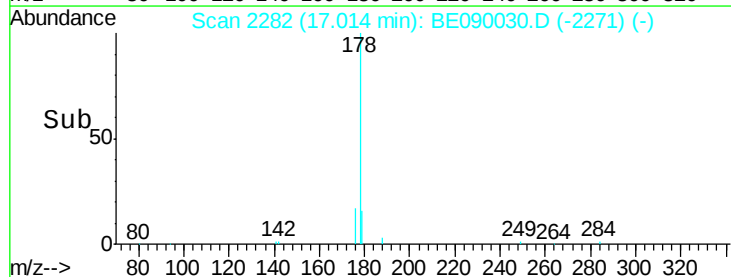
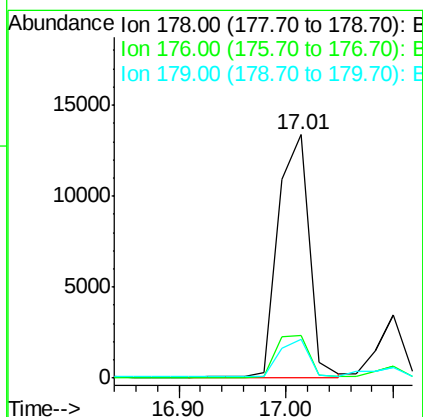
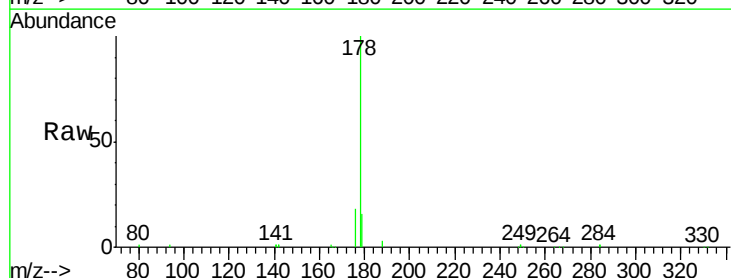
Instrument :
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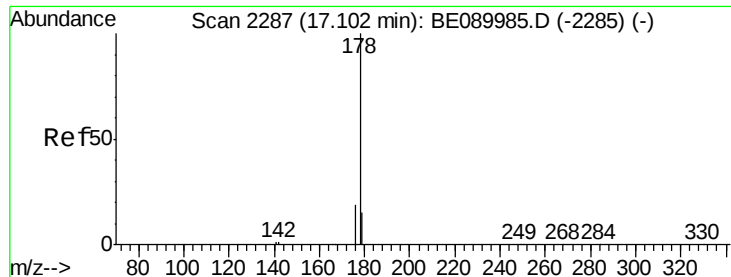
Tgt Ion: 266 Resp: 72
 Ion Ratio Lower Upper
 266 100
 268 91.0 51.8 77.8#
 264 86.6 50.2 75.2#



#22
 Phenanthrene
 Concen: 1.27 ng
 RT: 17.01 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

Tgt Ion: 178 Resp: 26502
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.3 22.9
 179 15.7 12.4 18.6





#23

Anthracene

Concen: 1.39 ng

RT: 17.01 min Scan# 2282

Delta R.T. -0.09 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

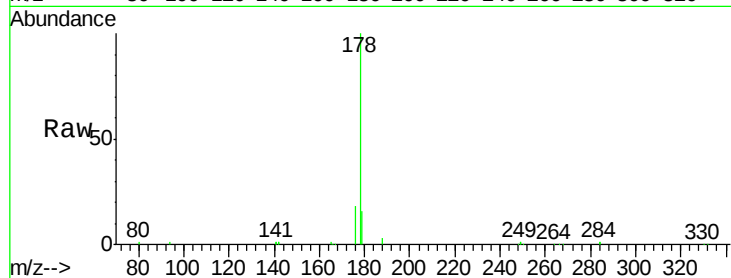
Tgt Ion:178 Resp: 26471

Ion Ratio Lower Upper

178 100

176 18.9 14.7 22.1

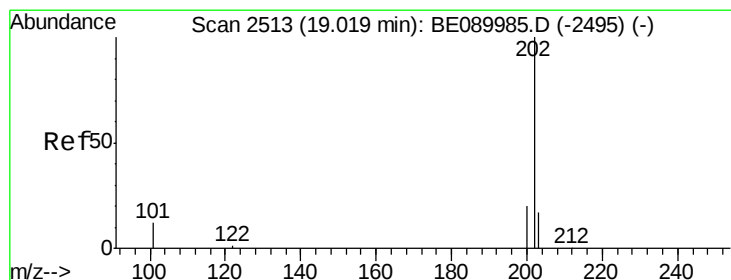
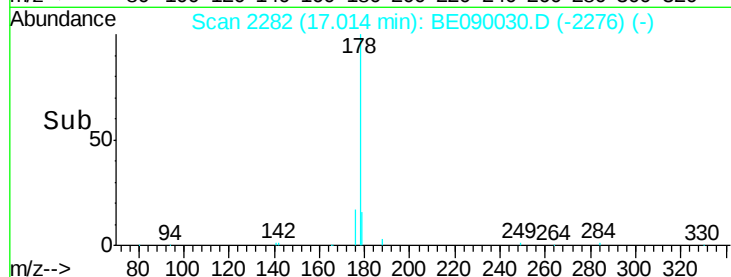
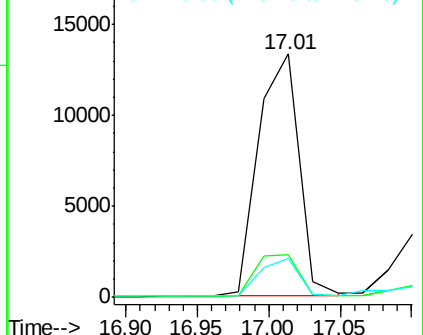
179 15.7 12.1 18.1



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: 4.92 ng

RT: 19.01 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

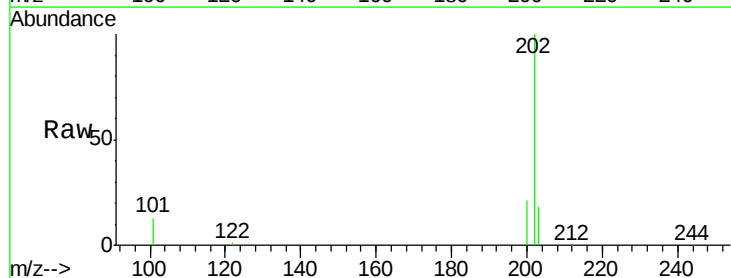
Tgt Ion:202 Resp: 114541

Ion Ratio Lower Upper

202 100

101 13.2 10.6 15.8

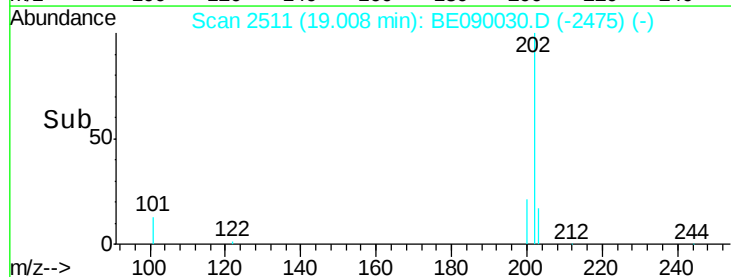
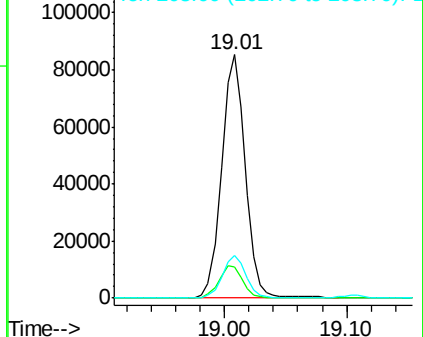
203 17.2 13.8 20.6

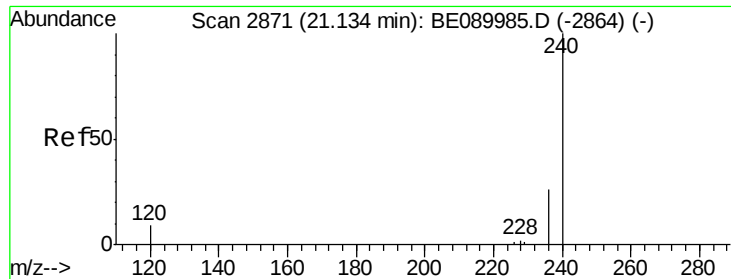


Abundance Ion 202.00 (201.70 to 202.70): E

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# 2869

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

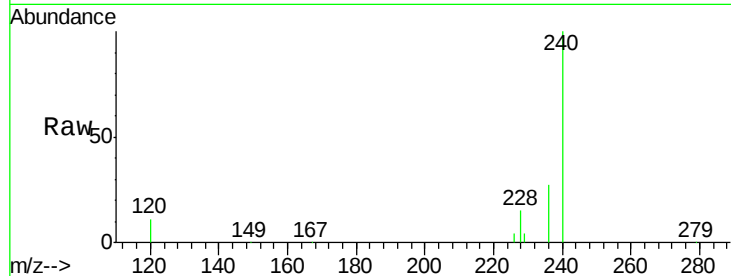
Tgt Ion:240 Resp: 101593

Ion Ratio Lower Upper

240 100

120 10.6 6.9 10.3#

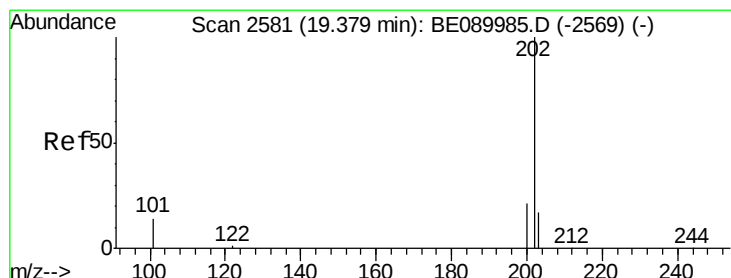
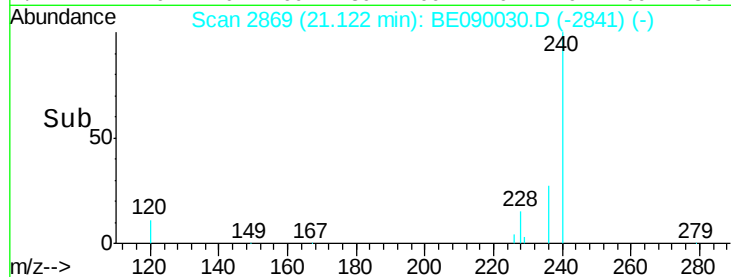
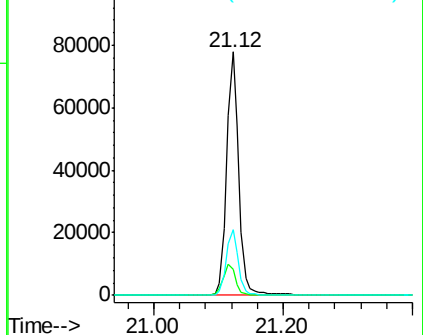
236 26.7 20.8 31.2



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



#26

Pyrene

Concen: 4.62 ng

RT: 19.37 min Scan# 2579

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

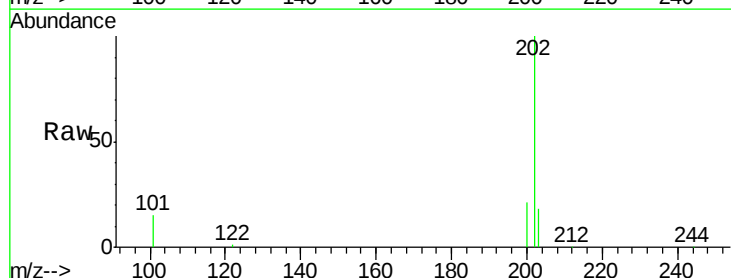
Tgt Ion:202 Resp: 111816

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

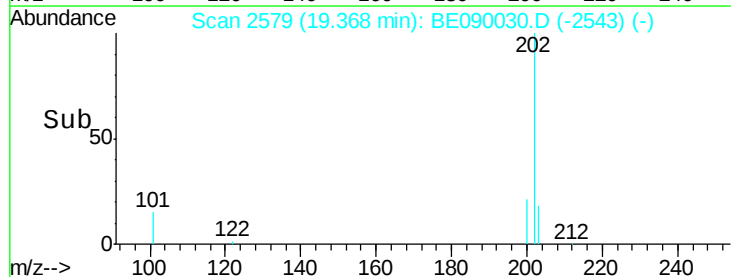
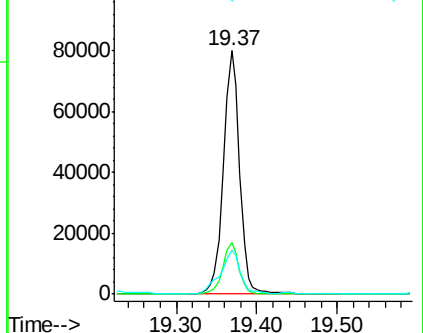
203 21.9 13.9 20.9#

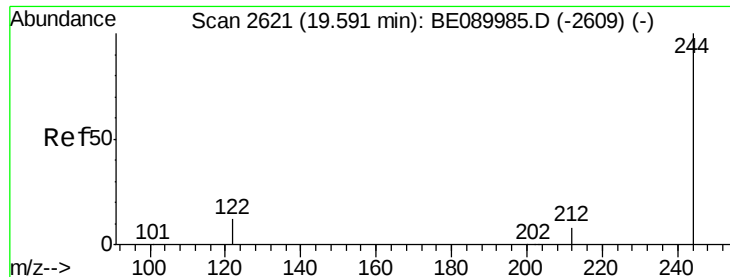


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

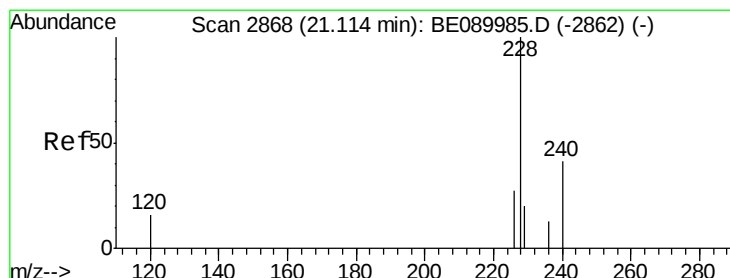
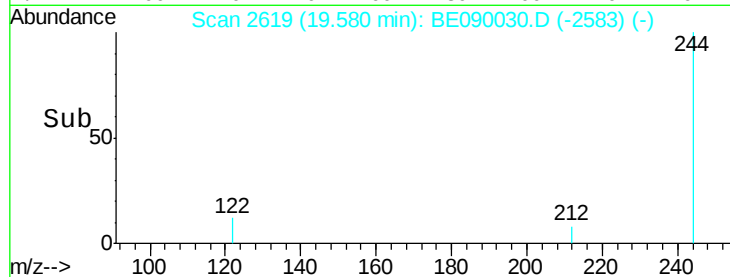
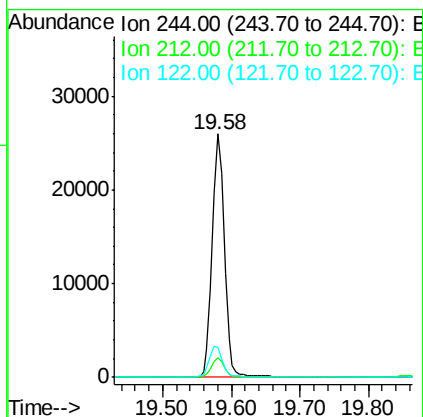
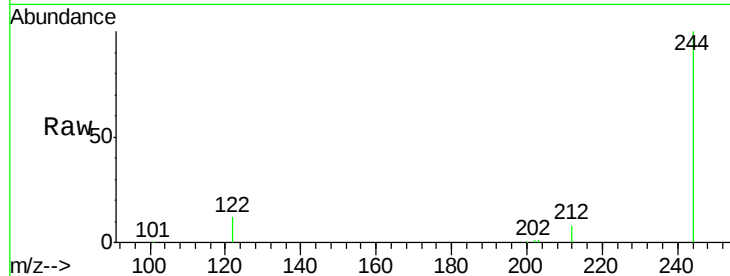




#27
 Terphenyl-d14
 Concen: 1.85 ng
 RT: 19.58 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

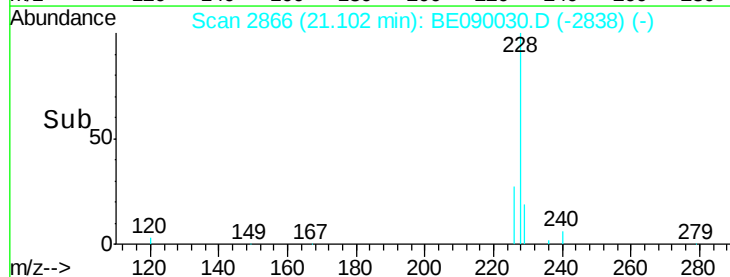
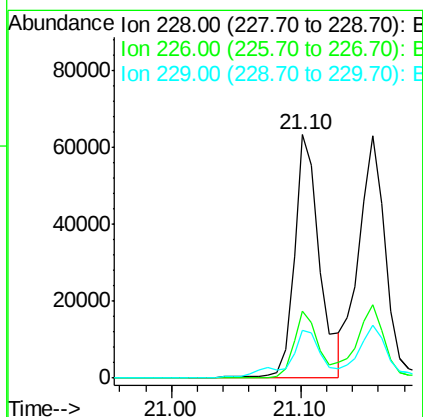
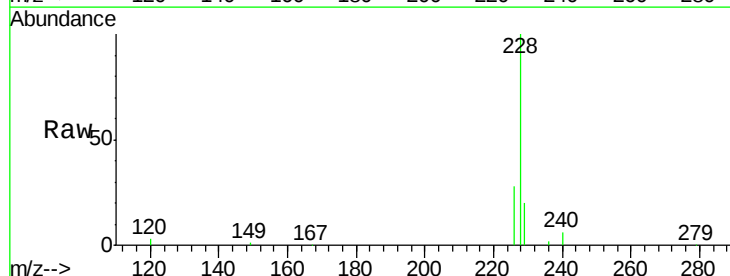
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0690624-150625DL

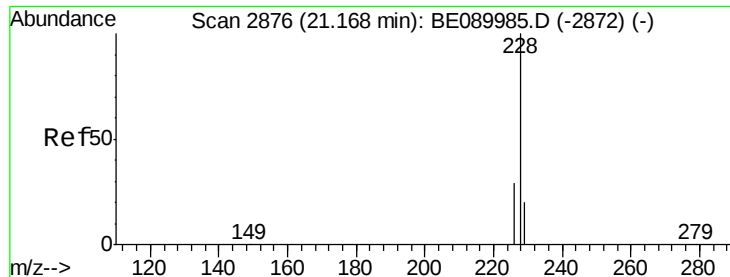
Tgt Ion: 244 Resp: 31366
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.6 9.8
 122 12.0 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 3.38 ng
 RT: 21.10 min Scan# 2866
 Delta R.T. -0.01 min
 Lab File: BE090030.D
 Acq: 1 Jul 2015 4:08

Tgt Ion: 228 Resp: 85774
 Ion Ratio Lower Upper
 228 100
 226 27.6 21.8 32.6
 229 19.8 15.8 23.6





#29

Chrysene

Concen: 3.44 ng

RT: 21.16 min Scan# 2874

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

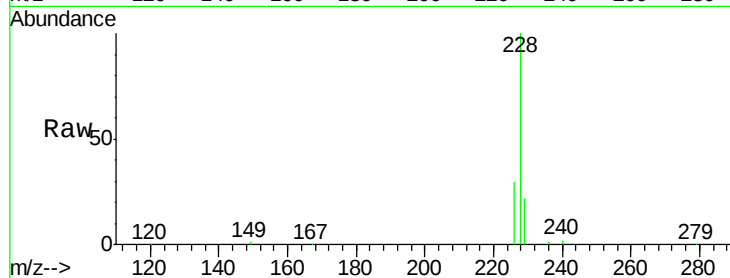
Tgt Ion:228 Resp: 90748

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.0

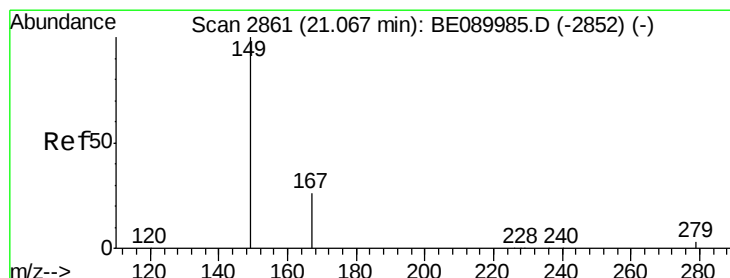
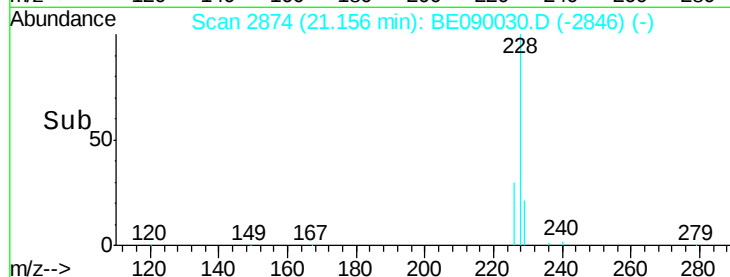
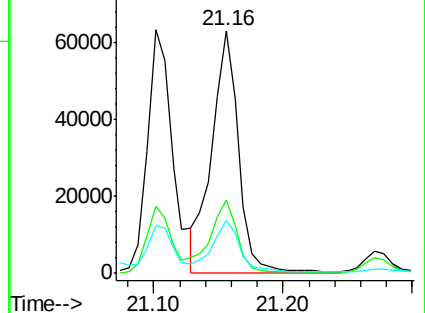
229 21.7 16.2 24.2



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: 0.43 ng

RT: 21.05 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

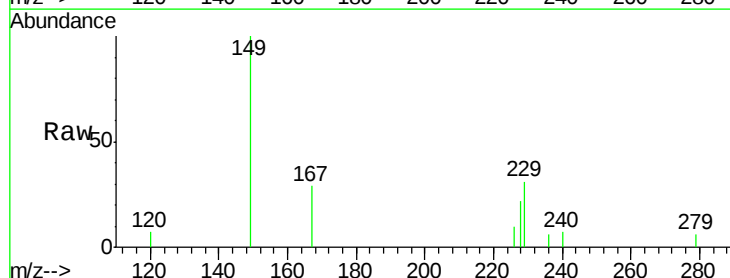
Tgt Ion:149 Resp: 1527

Ion Ratio Lower Upper

149 100

167 25.9 20.3 30.5

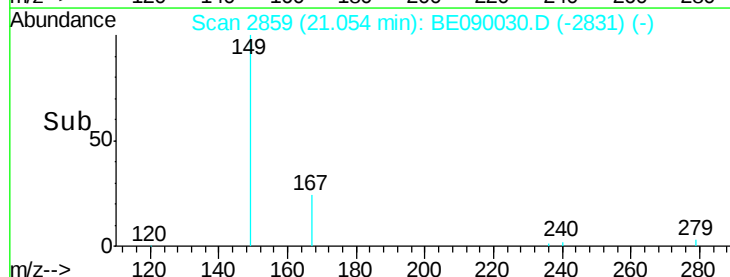
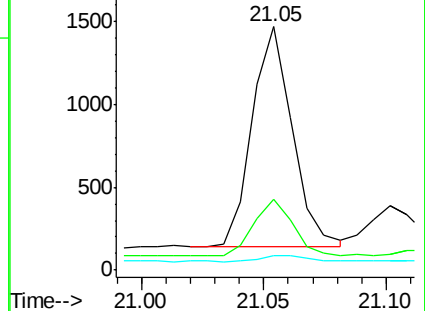
279 3.3 2.6 3.8

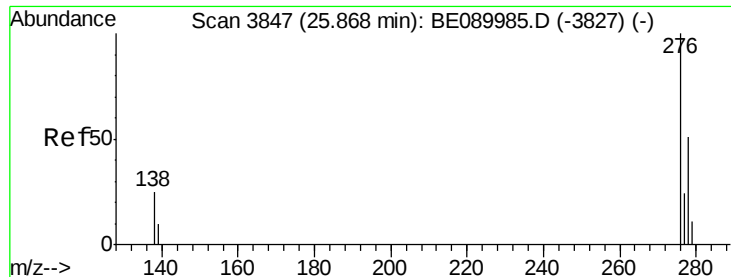


Abundance Ion 149.00 (148.70 to 149.70): E

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: 2.16 ng

RT: 25.84 min Scan# 3840

Delta R.T. -0.03 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

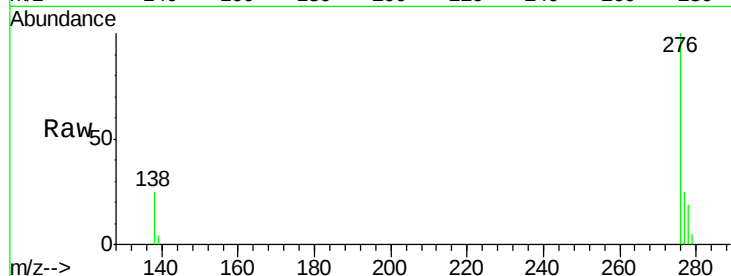
Tgt Ion:276 Resp: 54628

Ion Ratio Lower Upper

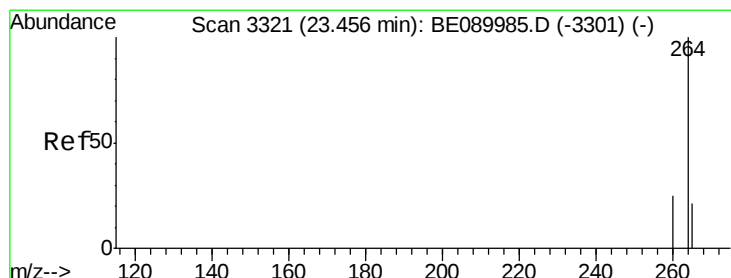
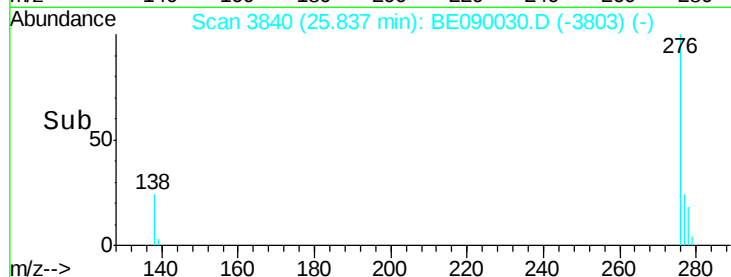
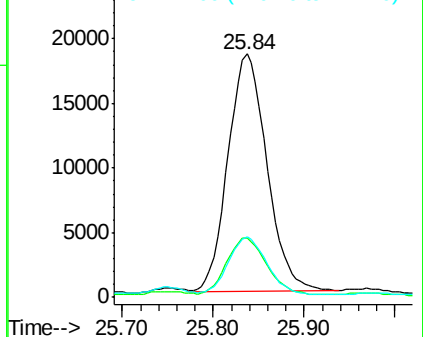
276 100

138 24.7 21.3 31.9

277 24.2 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# 3317

Delta R.T. -0.02 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

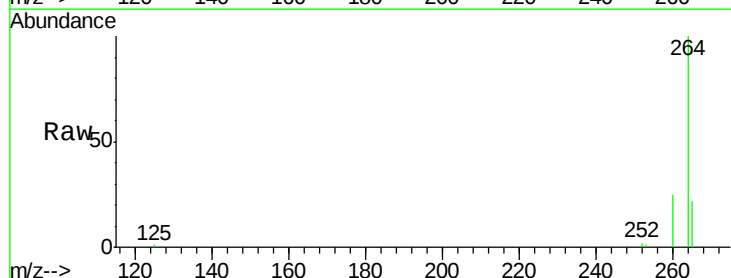
Tgt Ion:264 Resp: 97005

Ion Ratio Lower Upper

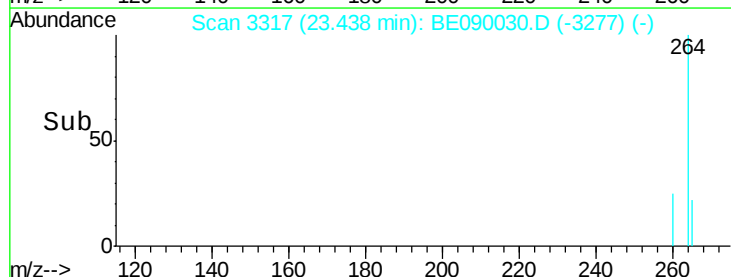
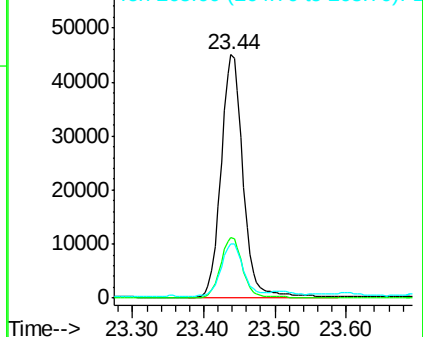
264 100

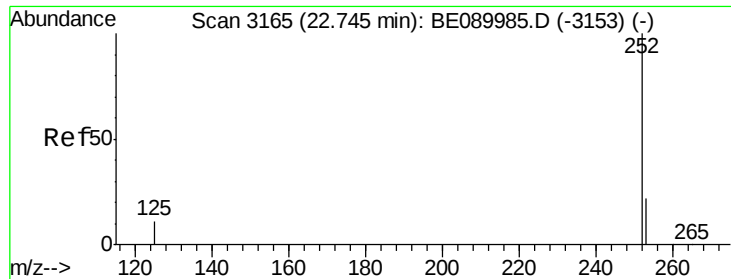
260 25.1 20.2 30.2

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: 5.75 ng

RT: 22.73 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

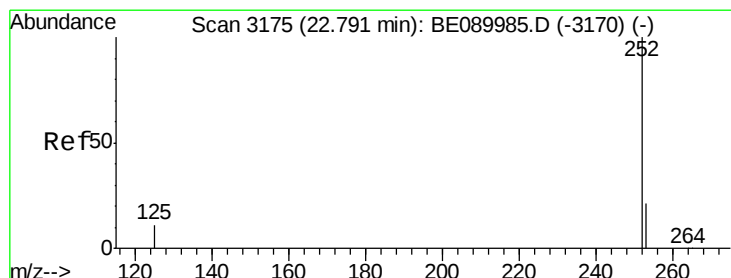
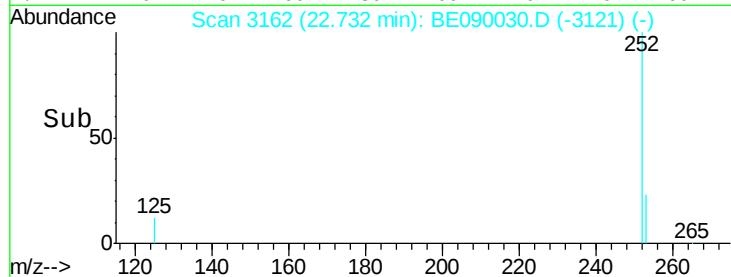
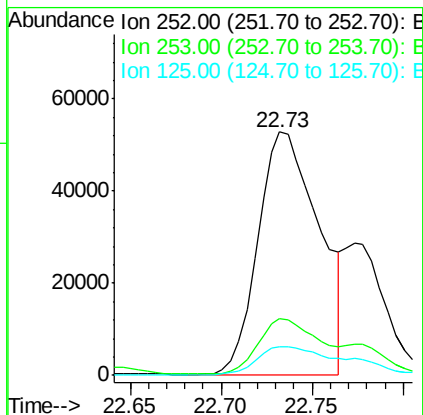
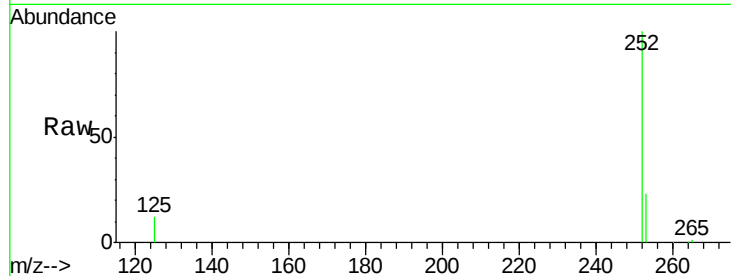
Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

Tgt Ion:	252	Resp:	123125
Ion Ratio		Lower	Upper
252	100		
253	23.3	17.8	26.8
125	11.9	9.0	13.4



#34

Benzo(k)fluoranthene

Concen: 5.15 ng

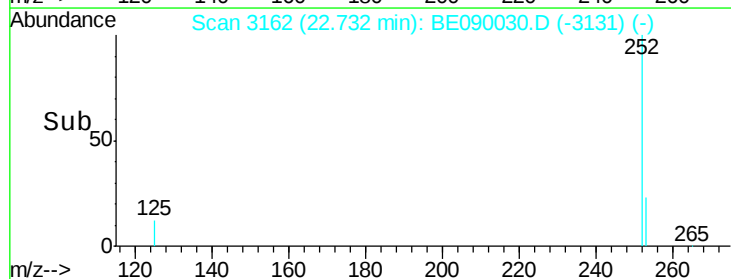
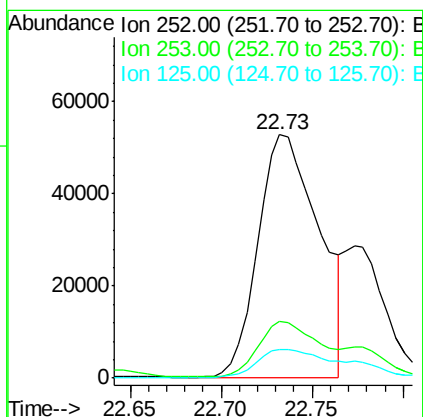
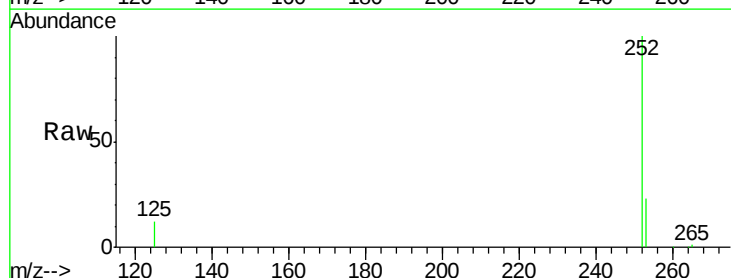
RT: 22.73 min Scan# 3162

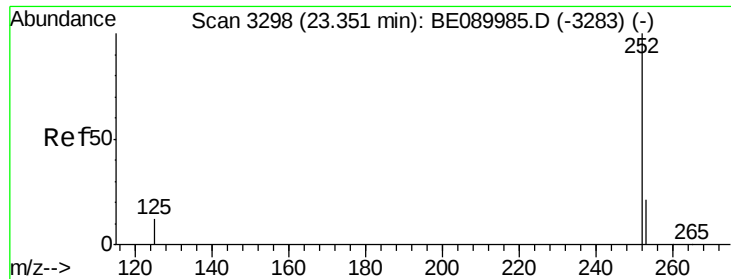
Delta R.T. -0.06 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Tgt Ion:	252	Resp:	123125
Ion Ratio		Lower	Upper
252	100		
253	23.3	17.5	26.3
125	11.9	9.5	14.3





#35

Benzo(a)pyrene

Concen: 4.34 ng

RT: 23.33 min Scan# 3294

Delta R.T. -0.02 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL

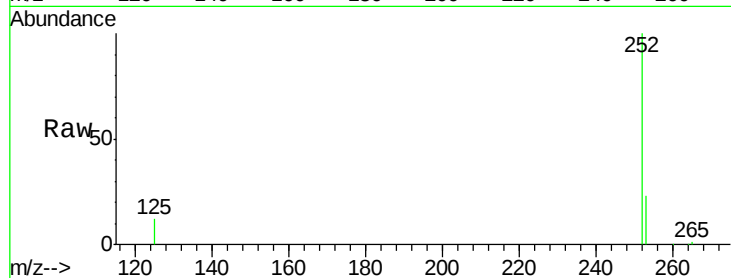
Tgt Ion:252 Resp: 85817

Ion Ratio Lower Upper

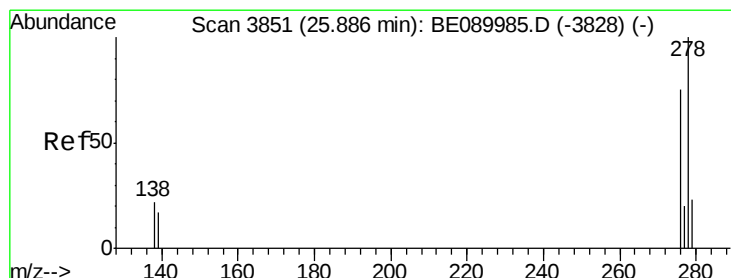
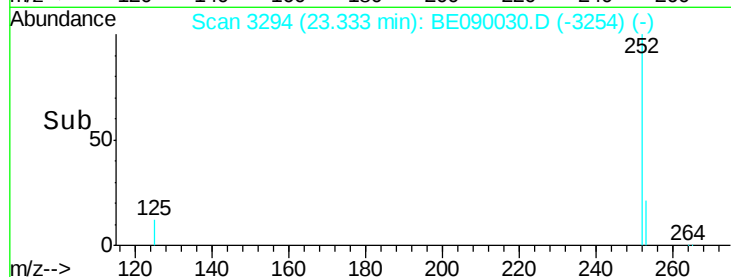
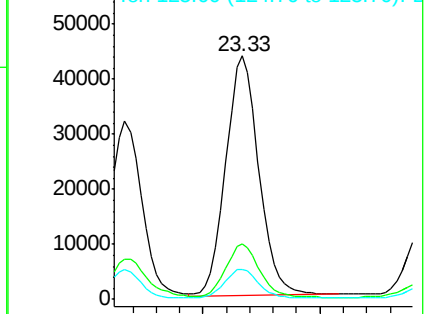
252 100

253 22.8 17.4 26.2

125 12.4 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: 0.69 ng

RT: 25.86 min Scan# 3844

Delta R.T. -0.03 min

Lab File: BE090030.D

Acq: 1 Jul 2015 4:08

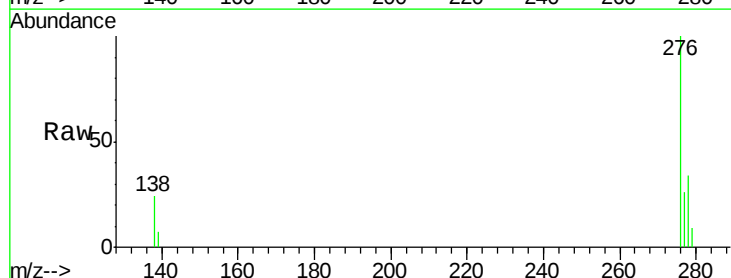
Tgt Ion:278 Resp: 13927

Ion Ratio Lower Upper

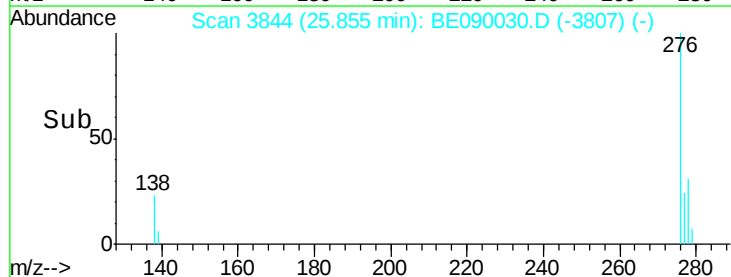
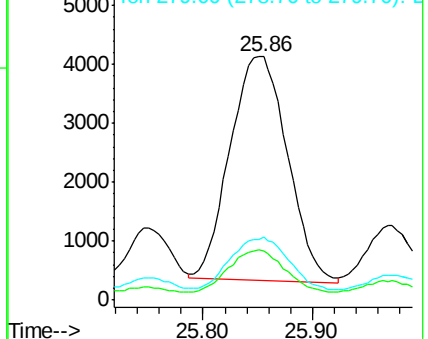
278 100

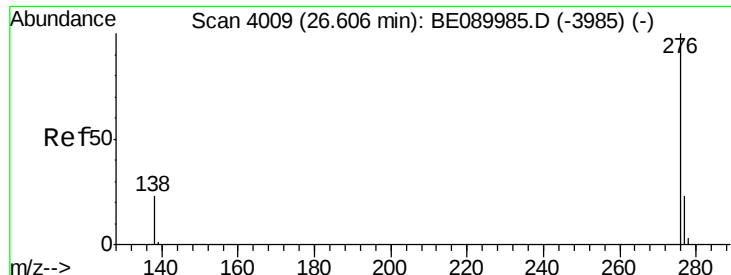
139 20.2 14.4 21.6

279 25.9 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: 2.90 ng

RT: 26.58 min Scan# 4002

Delta R.T. -0.03 min

Lab File: BE090030.D

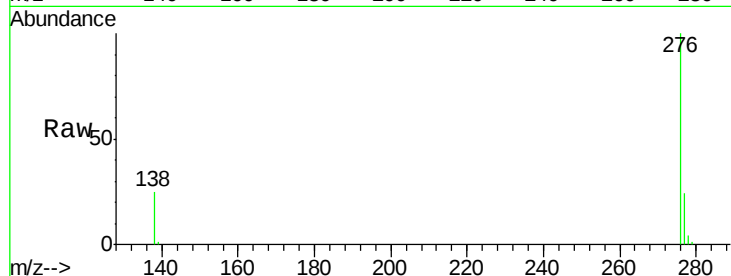
Acq: 1 Jul 2015 4:08

Instrument :

BNA_E

ClientSampleId :

X1SS0690624-150625DL



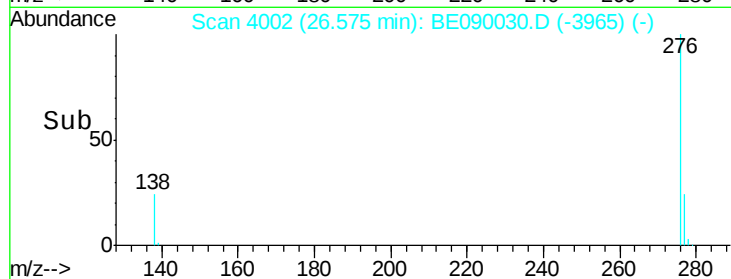
Tgt Ion: 276 Resp: 59653

Ion Ratio Lower Upper

276 100

277 24.4 18.8 28.2

138 24.7 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

