

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080515\
 Data File : BE090379.D
 Acq On : 6 Aug 2015 7:19
 Operator : TP/UM
 Sample : G3180-07
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 080315-D506-E-U-B

Quant Time: Aug 06 08:30:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 02:22:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	20544	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	92169	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	57032	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	130037	5.00	ng	0.00
25) Chrysene-d12	21.10	240	155391	5.00	ng	0.00
32) Perylene-d12	23.40	264	140807	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.22	112	8266	2.33	ng	0.00
5) Phenol-d6	6.78	99	7629	1.35	ng	0.00
7) Nitrobenzene-d5	8.73	82	22860	3.12	ng	0.00
13) 2,4,6-Tribromophenol	15.71	330	10408	6.54	ng	0.00
14) 2-Fluorobiphenyl	12.82	172	64990	4.14	ng	0.00
27) Terphenyl-d14	19.56	244	134312	5.87	ng	0.00

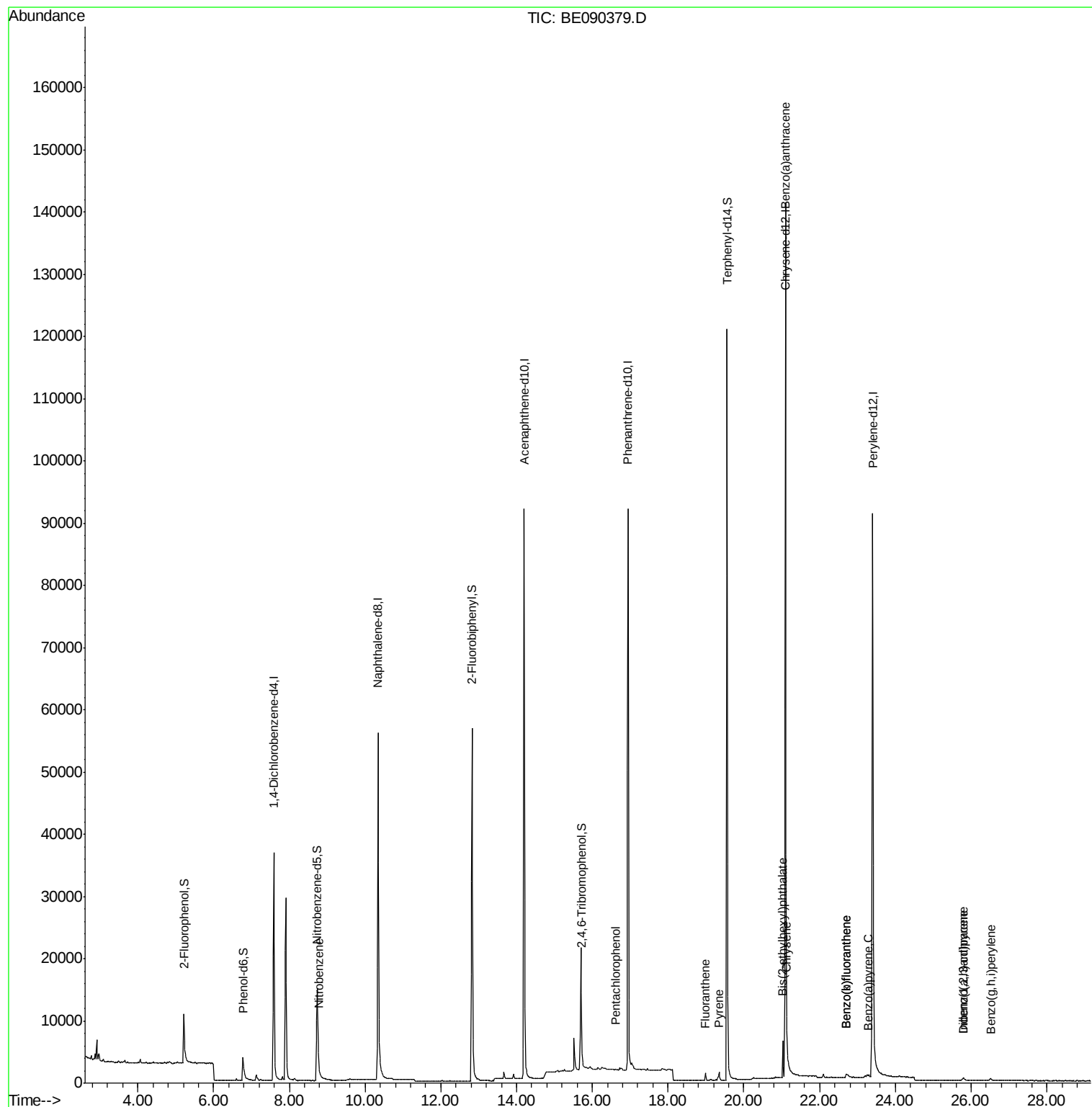
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.30	88	34	Below Cal	#	1
8) Nitrobenzene	8.78	77	42	0.22 ng	#	58
10) Hexachlorobutadiene	10.68	225	23	Below Cal	#	69
21) Pentachlorophenol	16.61	266	78	0.17 ng	#	77
24) Fluoranthene	18.99	202	1133	0.04 ng	#	95
26) Pyrene	19.35	202	1301	0.04 ng	#	96
28) Benzo(a)anthracene	21.09	228	1336	0.04 ng	#	79
29) Chrysene	21.13	228	1020	0.02 ng	#	83
30) Bis(2-ethylhexyl)phthalate	21.03	149	5740	0.77 ng	#	97
31) Indeno(1,2,3-cd)pyrene	25.78	276	850	0.28 ng	#	78
33) Benzo(b)fluoranthene	22.71	252	1048	0.22 ng	#	40
34) Benzo(k)fluoranthene	22.71	252	1048	0.03 ng	#	39
35) Benzo(a)pyrene	23.29	252	723	0.25 ng	#	21
36) Dibenzo(a,h)anthracene	25.81	278	481	0.30 ng	#	26
37) Benzo(a,h,i)perylene	26.52	276	903	0.03 ng	#	65

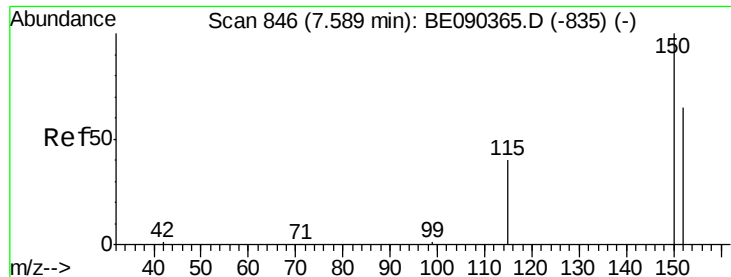
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.59 min Scan# 846

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

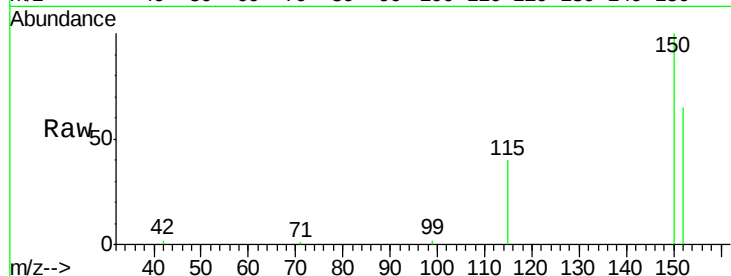
Tot Ion:152 Resp: 20544

Ion Ratio Lower Upper

152 100

150 155.0 123.0 184.4

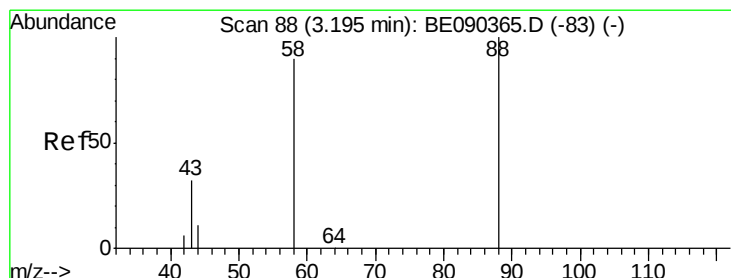
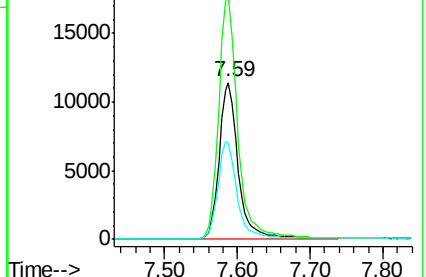
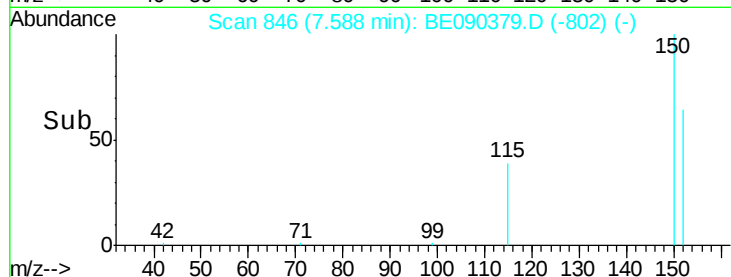
115 61.5 48.9 73.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.30 min Scan# 103

Delta R.T. 0.10 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

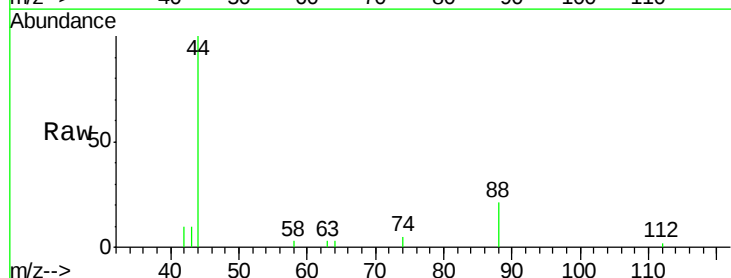
Tgt Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

58 17.6 70.0 105.0#

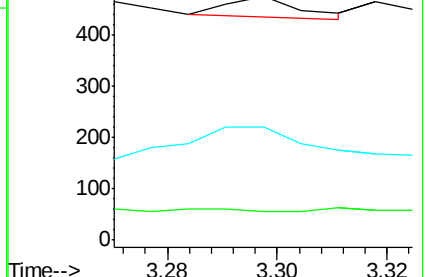
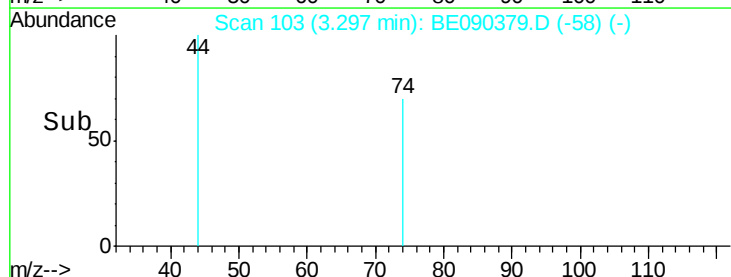
43 211.8 28.4 42.6#

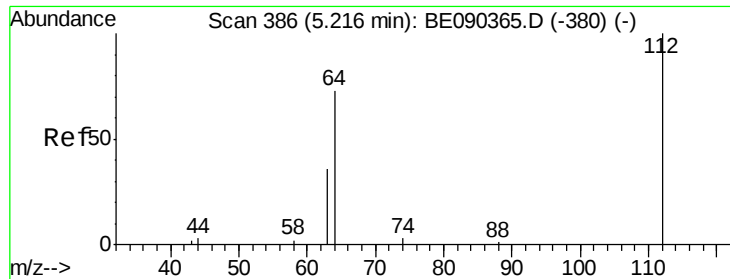


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 2.33 ng

RT: 5.22 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

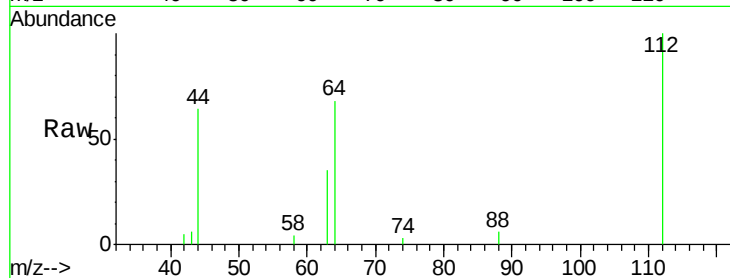
Tot Ion:112 Resp: 8266

Ion Ratio Lower Upper

112 100

64 70.7 37.1 55.7#

63 35.7 19.5 29.3#



Abundance Ion 112.00 (111.70 to 112.70): BE090365.D (-380) (-)

Ion 64.00 (63.70 to 64.70): BE090365.D (-380) (-)

Ion 63.00 (62.70 to 63.70): BE090365.D (-380) (-)

Time-->

5.10 5.20 5.30 5.40

5.22

4000

3000

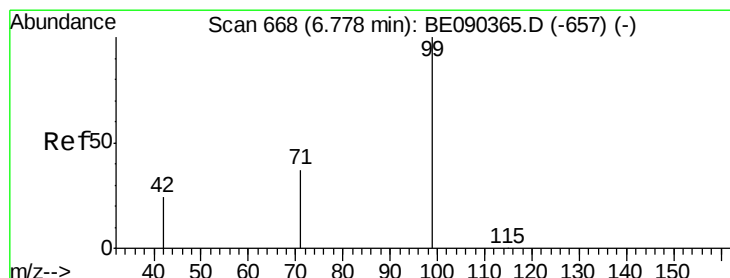
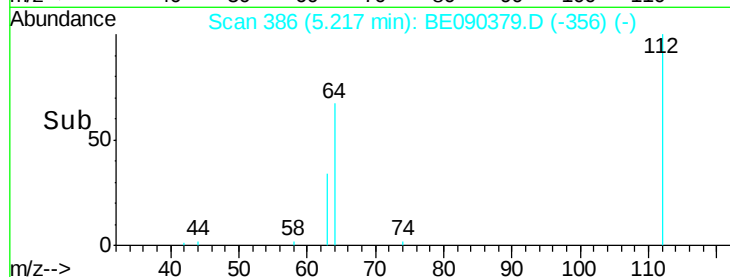
2000

1000

0

Time-->

5.10 5.20 5.30 5.40



#5

Phenol-d6

Concen: 1.35 ng

RT: 6.78 min Scan# 668

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

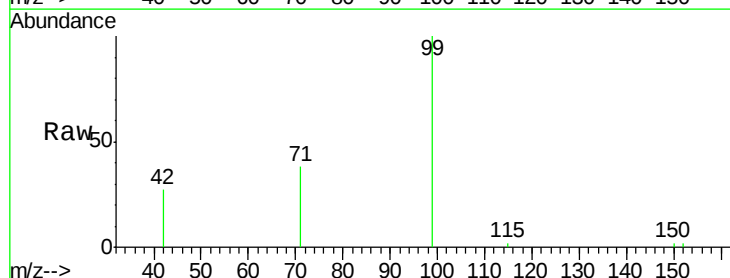
Tgt Ion: 99 Resp: 7629

Ion Ratio Lower Upper

99 100

42 21.2 18.2 27.4

71 36.2 27.4 41.0



Abundance Ion 99.00 (98.70 to 99.70): BE090365.D (-657) (-)

Ion 42.00 (41.70 to 42.70): BE090365.D (-657) (-)

Ion 71.00 (70.70 to 71.70): BE090365.D (-657) (-)

Time-->

6.70 6.80 6.90 7.00

6.78

3000

2500

2000

1500

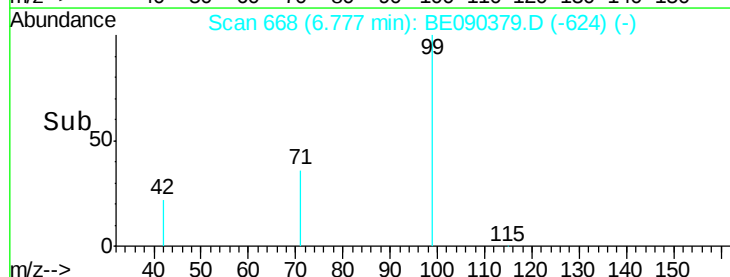
1000

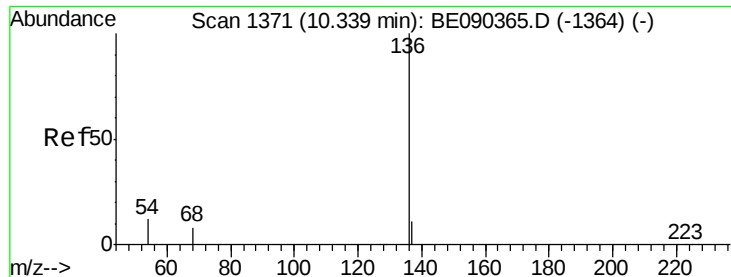
500

0

Time-->

6.70 6.80 6.90 7.00





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

Tot Ion:136 Resp: 92169

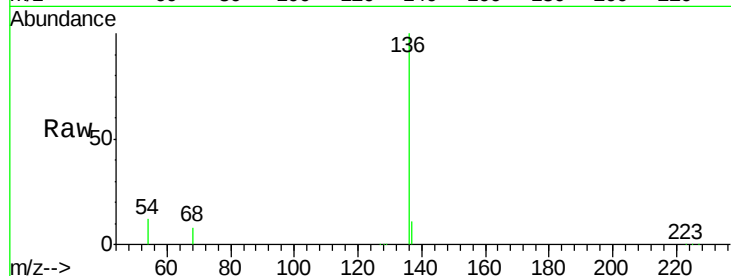
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.0 9.4 14.0

68 8.4 6.5 9.7

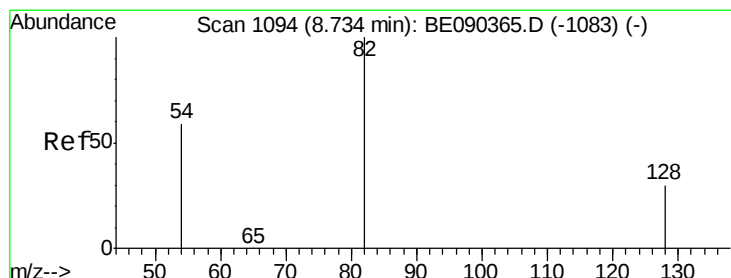
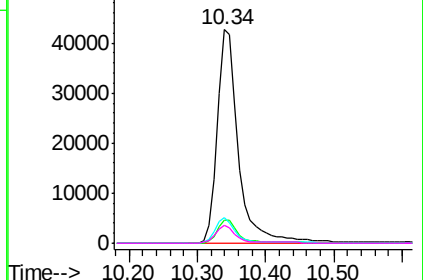
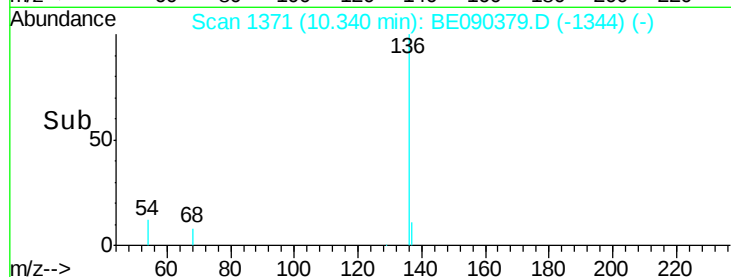


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.12 ng

RT: 8.73 min Scan# 1094

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

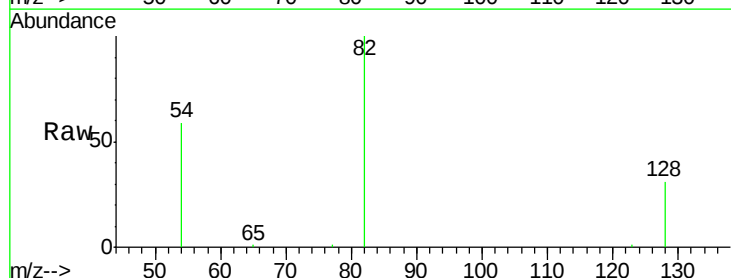
Tgt Ion: 82 Resp: 22860

Ion Ratio Lower Upper

82 100

128 30.5 25.0 37.6

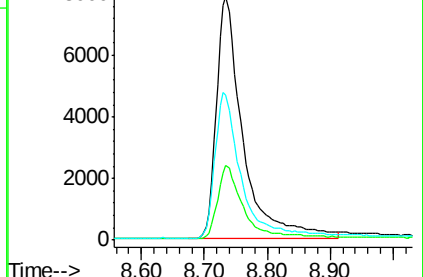
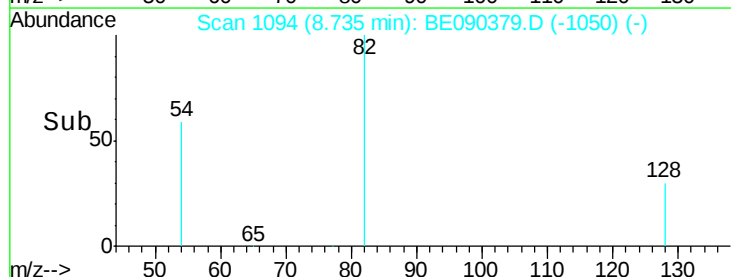
54 59.5 48.8 73.2

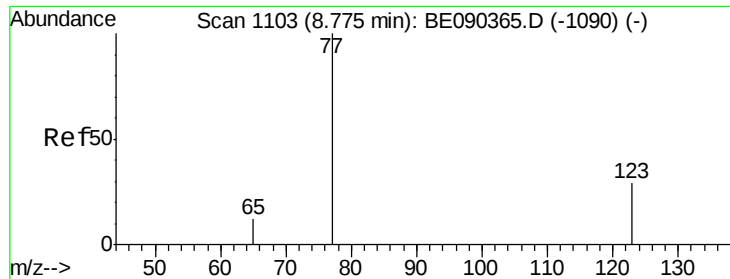


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Nitrobenzene

Concen: 0.22 ng

RT: 8.78 min Scan# 1103

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

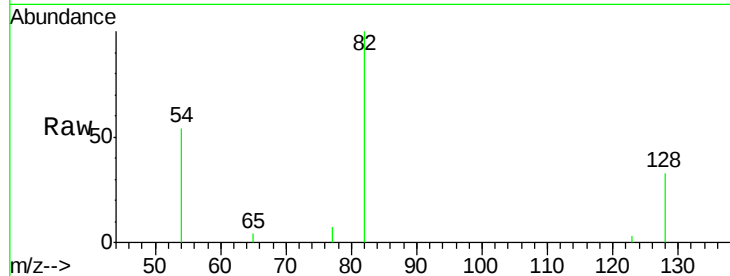
Tot Ion: 77 Resp: 42

Ion Ratio Lower Upper

77 100

123 0.0 25.1 37.7#

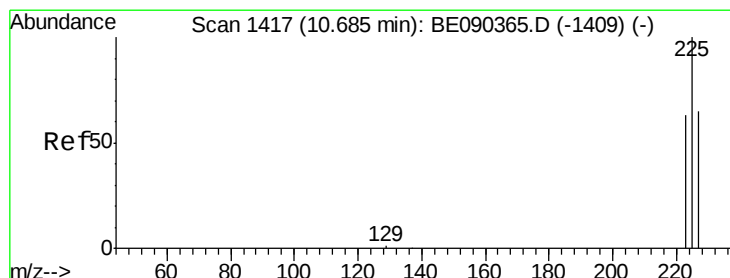
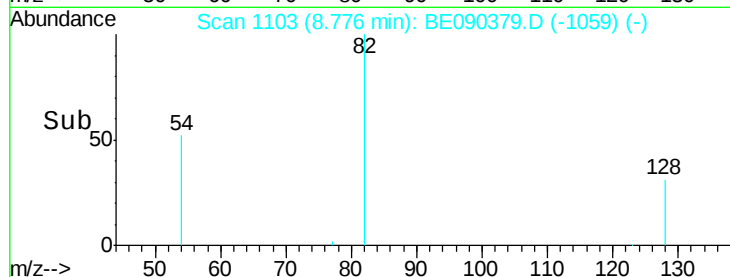
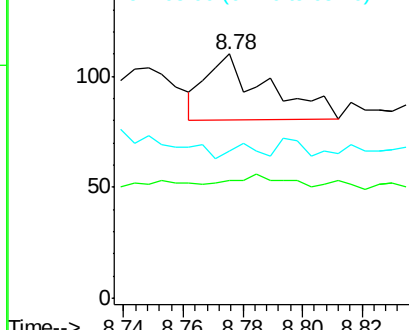
65 11.9 9.3 13.9



Abundance Ion 77.00 (76.70 to 77.70): BE090365.D (-1090) (-)

Ion 123.00 (122.70 to 123.70): BE090365.D (-1090) (-)

Ion 65.00 (64.70 to 65.70): BE090365.D (-1090) (-)



#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

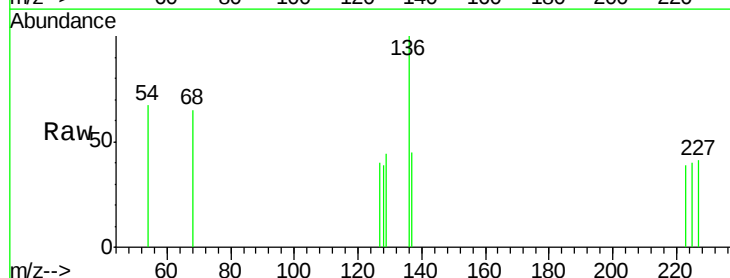
Tgt Ion: 225 Resp: 23

Ion Ratio Lower Upper

225 100

223 52.2 50.6 75.8

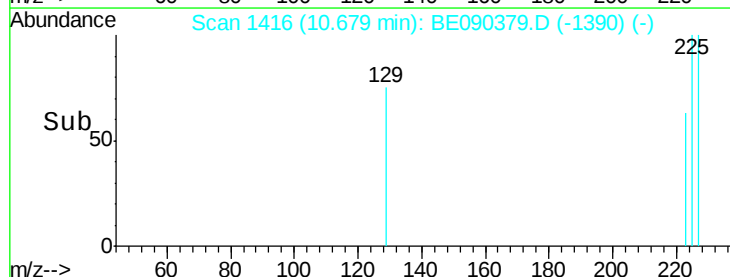
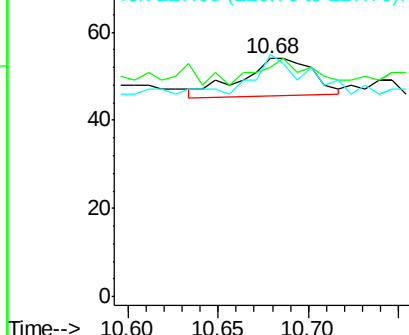
227 100.0 50.7 76.1#

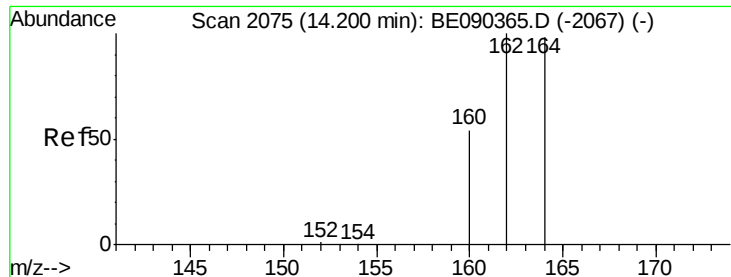


Abundance Ion 225.00 (224.70 to 225.70): BE090365.D (-1409) (-)

Ion 223.00 (222.70 to 223.70): BE090365.D (-1409) (-)

Ion 227.00 (226.70 to 227.70): BE090365.D (-1409) (-)





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.20 min Scan# 2076

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

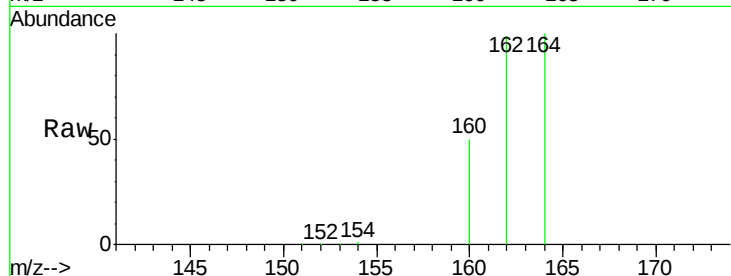
Tot Ion:164 Resp: 57032

Ion Ratio Lower Upper

164 100

162 99.1 81.8 122.8

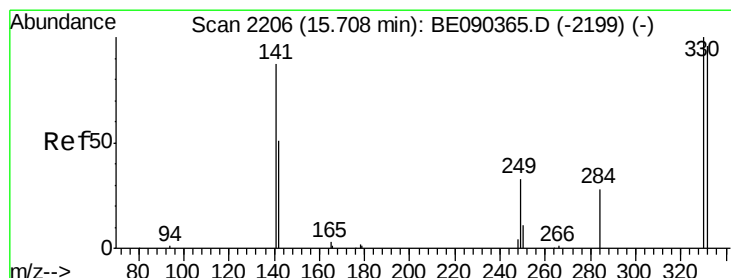
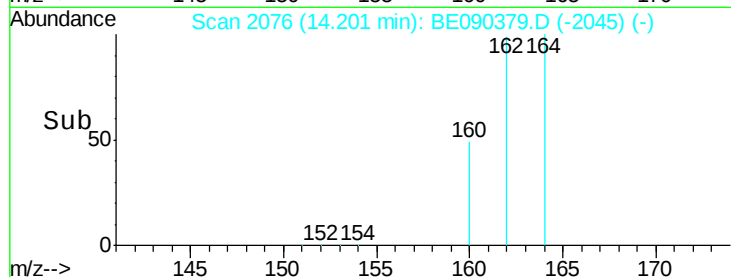
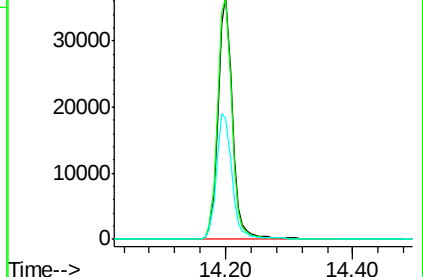
160 49.5 44.2 66.4



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: 6.54 ng

RT: 15.71 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

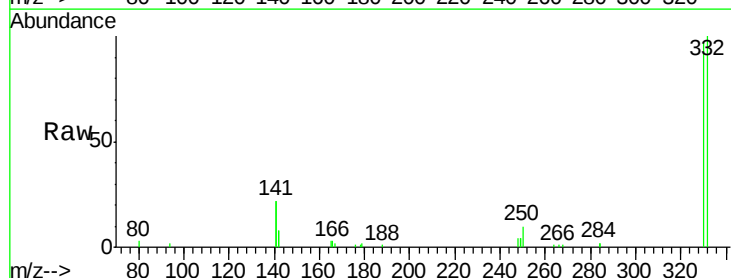
Tgt Ion:330 Resp: 10408

Ion Ratio Lower Upper

330 100

332 98.7 75.8 113.6

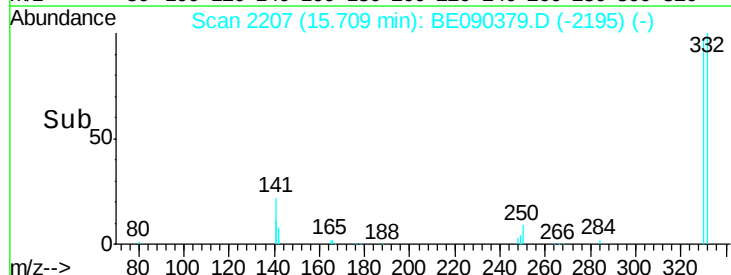
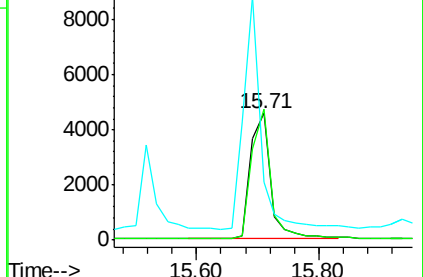
141 156.7 114.4 171.6

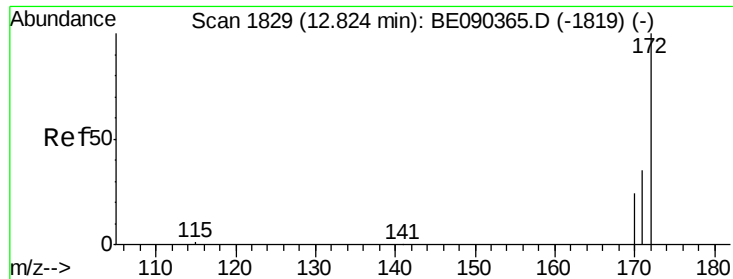


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

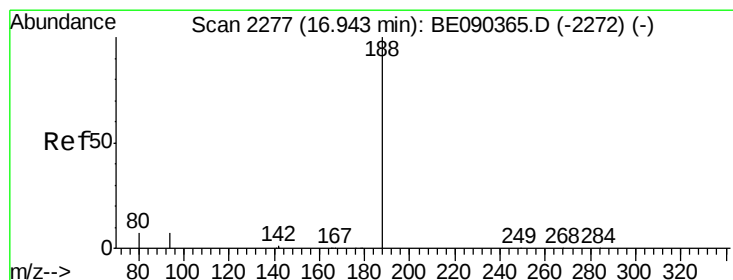
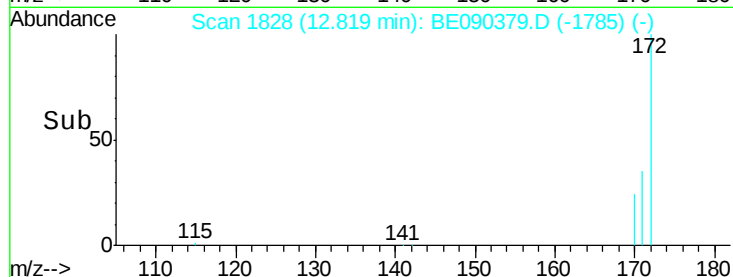
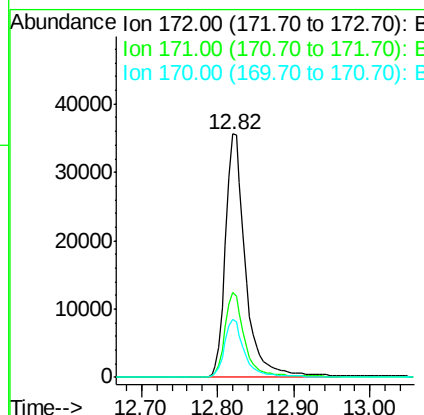
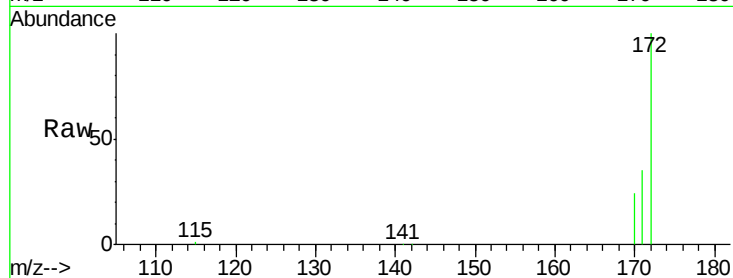




#14
2-Fluorobiphenyl
Concen: 4.14 ng
RT: 12.82 min Scan# 1828
Delta R.T. -0.00 min
Lab File: BE090379.D
Acq: 6 Aug 2015 7:19

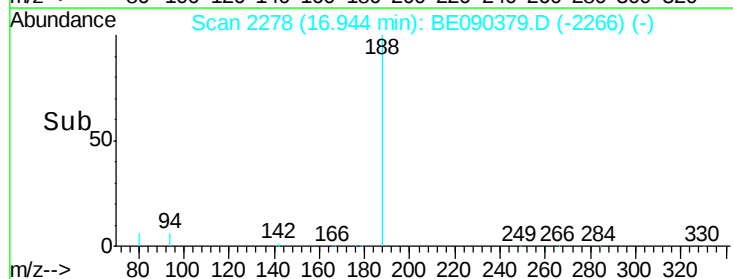
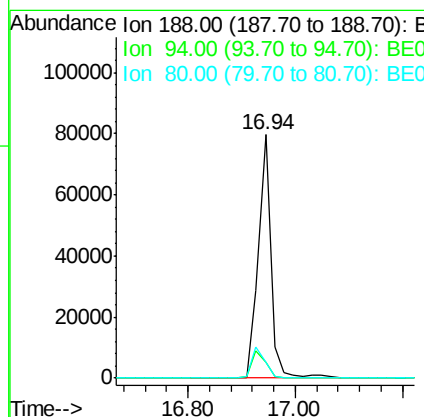
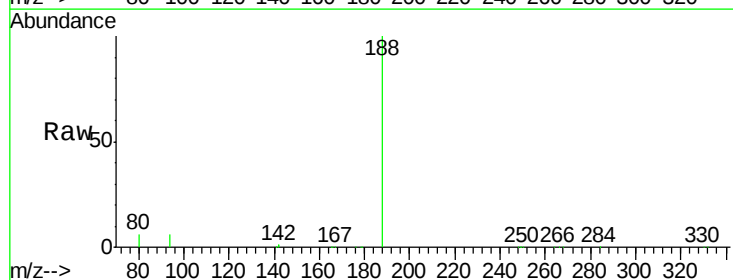
Instrument :
BNA_E
ClientSampleId :
080315-D506-E-U-B

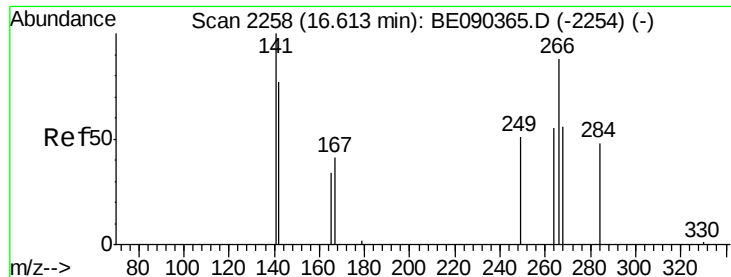
Tot Ion:172 Resp: 64990
Ion Ratio Lower Upper
172 100
171 34.8 28.5 42.7
170 24.0 19.8 29.8



#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.94 min Scan# 2278
Delta R.T. 0.00 min
Lab File: BE090379.D
Acq: 6 Aug 2015 7:19

Tgt Ion:188 Resp: 130037
Ion Ratio Lower Upper
188 100
94 6.2 5.7 8.5
80 6.3 5.8 8.8





#21

Pentachlorophenol

Concen: 0.17 ng

RT: 16.61 min Scan# 2259

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

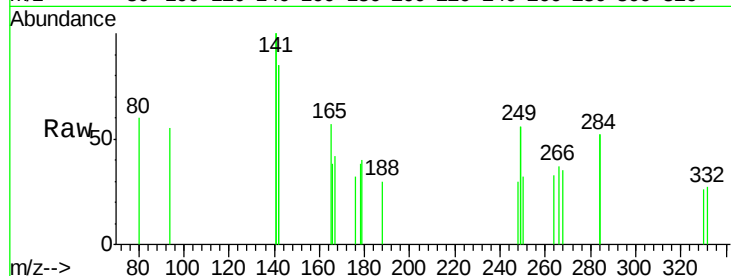
Tot Ion:266 Resp: 78

Ion Ratio Lower Upper

266 100

268 92.9 58.5 87.7#

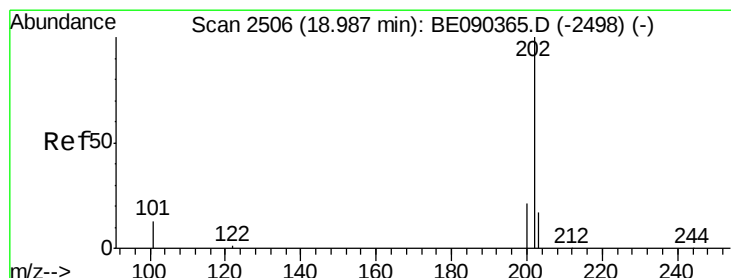
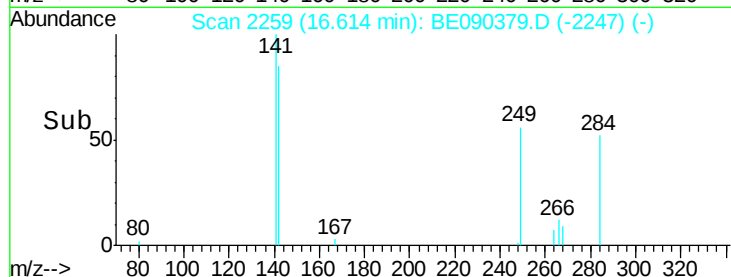
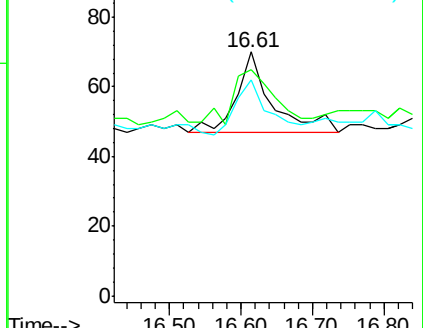
264 88.6 56.0 84.0#



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



#24

Fluoranthene

Concen: 0.04 ng

RT: 18.99 min Scan# 2507

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

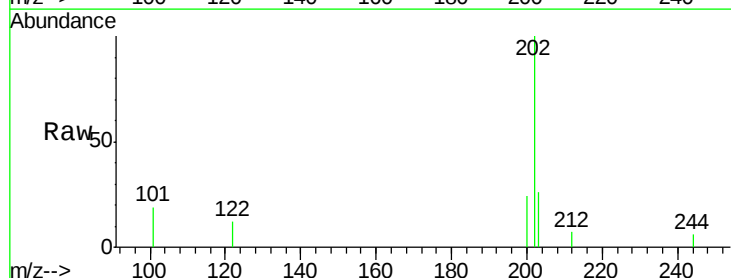
Tgt Ion:202 Resp: 1133

Ion Ratio Lower Upper

202 100

101 15.5 10.3 15.5#

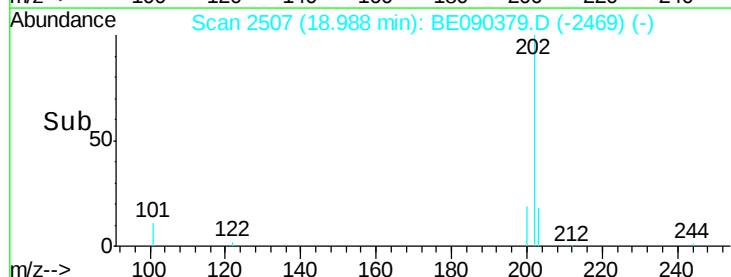
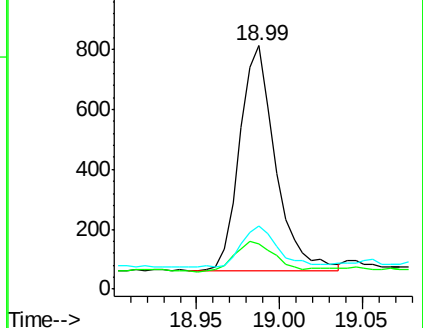
203 18.4 13.7 20.5

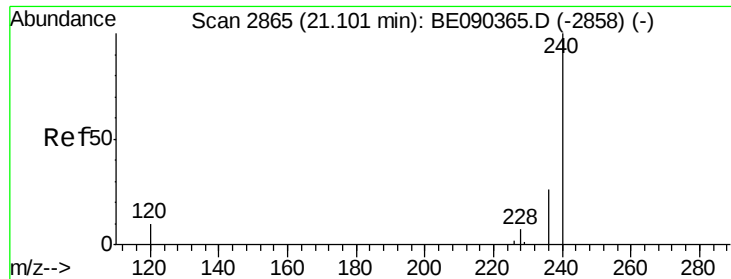


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.10 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

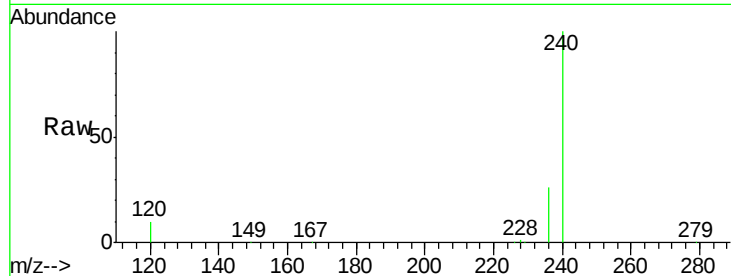
Tot Ion:240 Resp: 155391

Ion Ratio Lower Upper

240 100

120 10.1 8.3 12.5

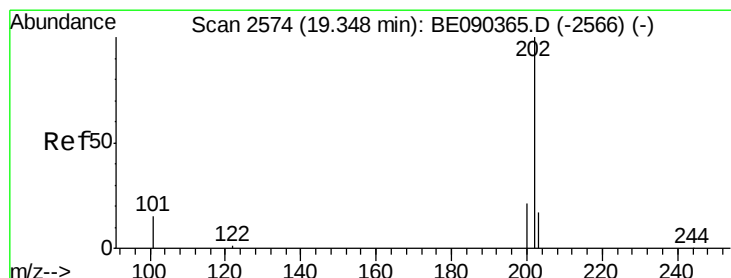
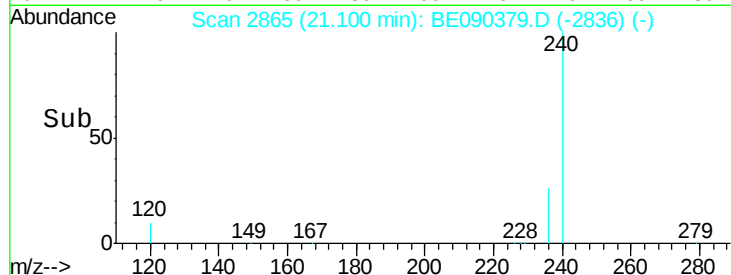
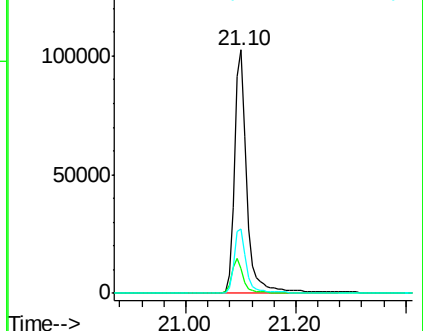
236 26.5 21.0 31.4



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: 0.04 ng

RT: 19.35 min Scan# 2575

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

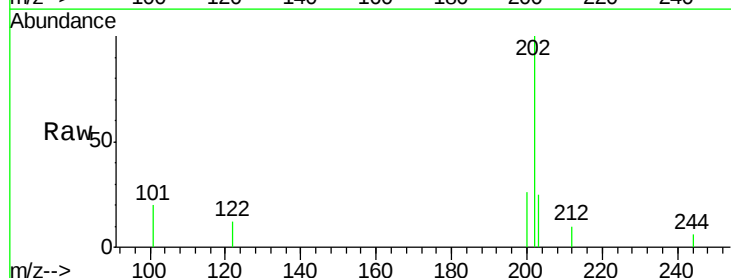
Tgt Ion:202 Resp: 1301

Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

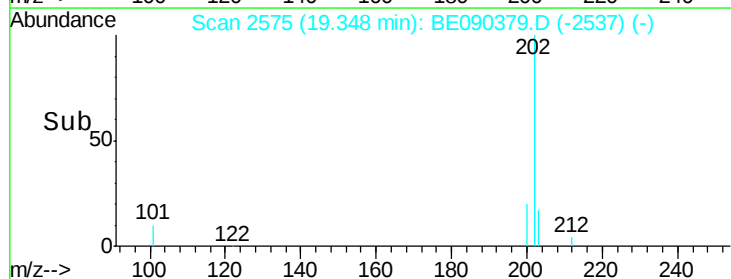
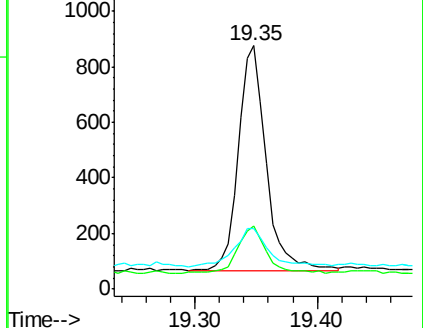
203 21.4 13.8 20.8#

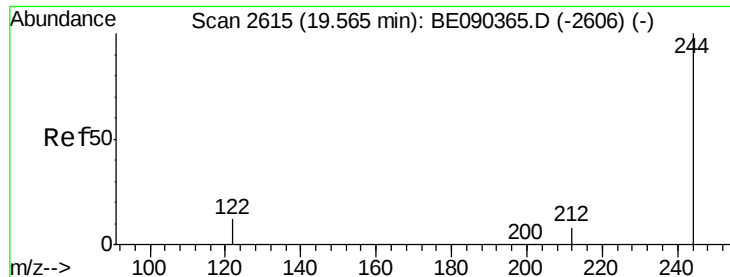


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Terphenyl-d14

Concen: 5.87 ng

RT: 19.56 min Scan# 2615

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampled :

080315-D506-E-U-B

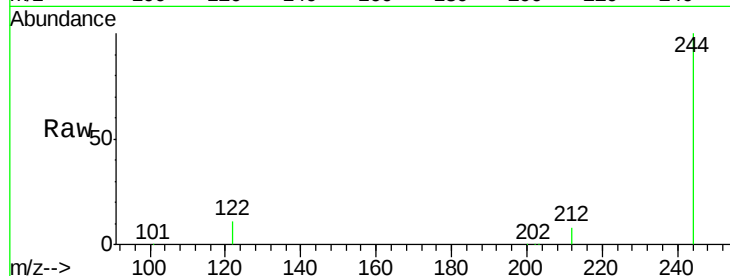
Tot Ion:244 Resp: 134312

Ion Ratio Lower Upper

244 100

212 7.8 6.6 9.8

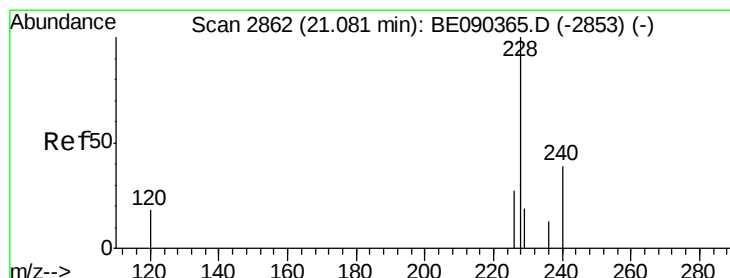
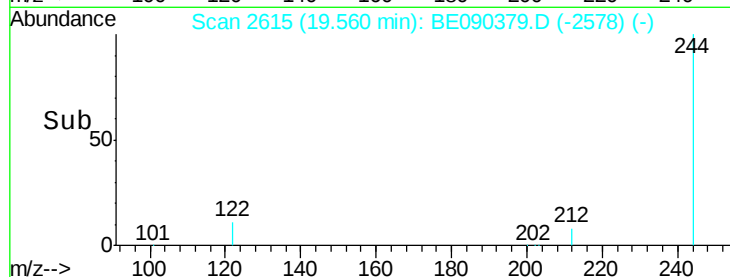
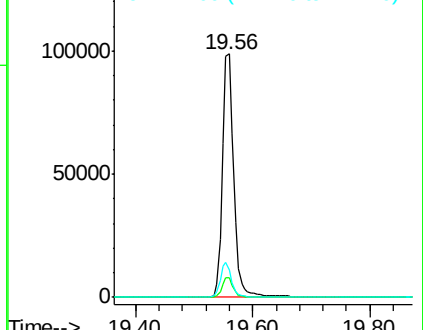
122 11.2 10.2 15.4



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



#28

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.09 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

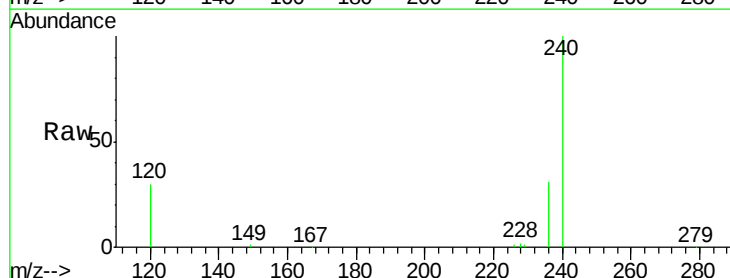
Tgt Ion:228 Resp: 1336

Ion Ratio Lower Upper

228 100

226 35.9 21.9 32.9#

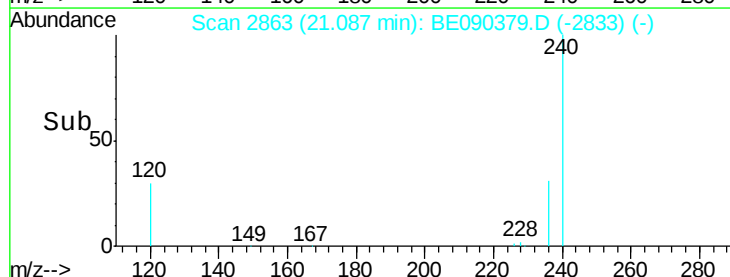
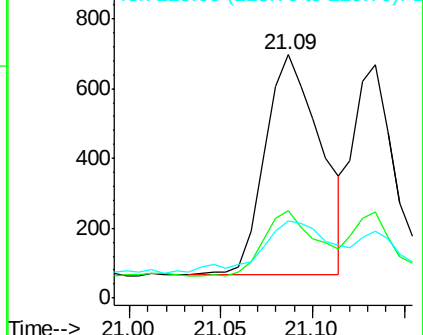
229 31.6 15.4 23.0#

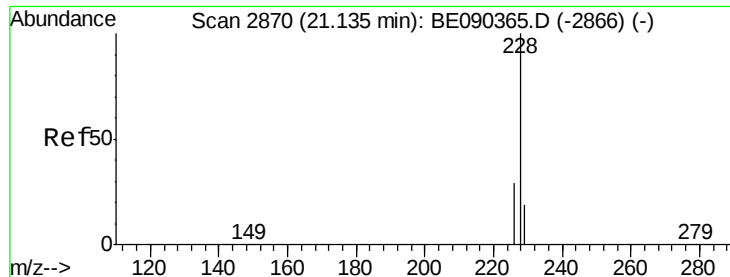


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Chrysene

Concen: 0.02 ng

RT: 21.13 min Scan# 2870

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

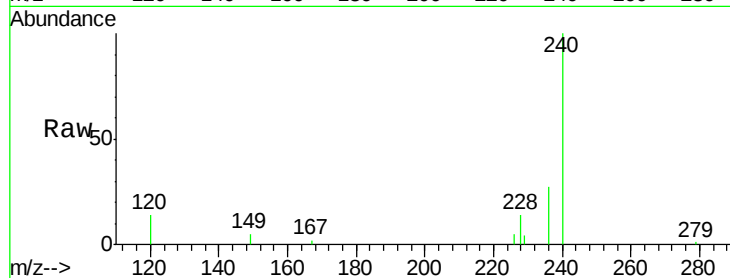
Tot Ion:228 Resp: 1020

Ion Ratio Lower Upper

228 100

226 36.7 23.1 34.7#

229 28.9 15.8 23.8#



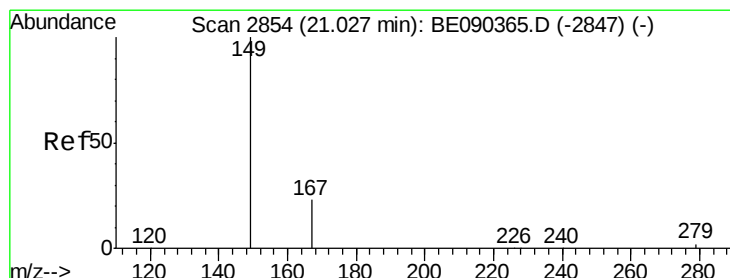
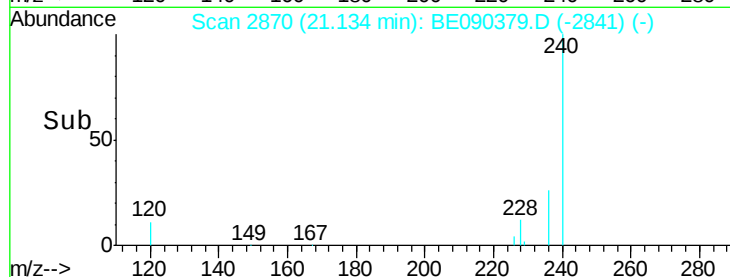
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

21.13

Time-->



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.77 ng

RT: 21.03 min Scan# 2854

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

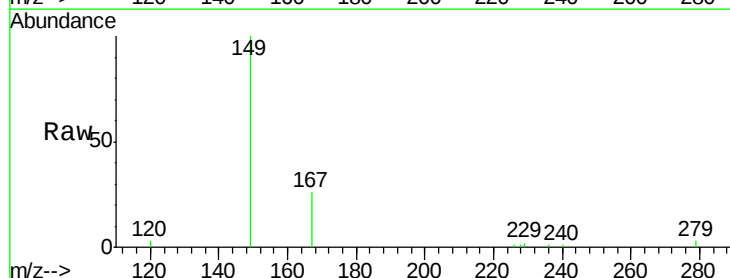
Tgt Ion:149 Resp: 5740

Ion Ratio Lower Upper

149 100

167 23.3 19.8 29.8

279 3.0 2.4 3.6



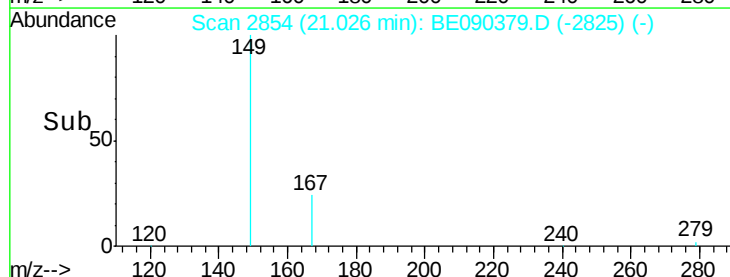
Abundance Ion 149.00 (148.70 to 149.70): E

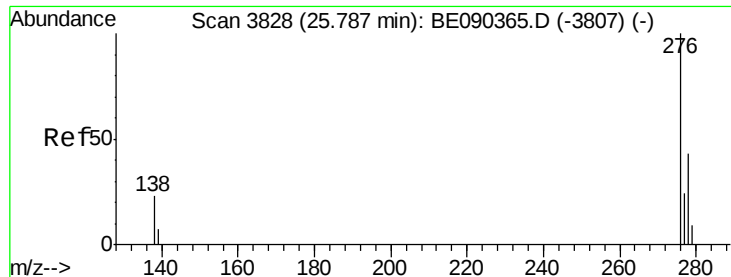
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

21.03

Time-->

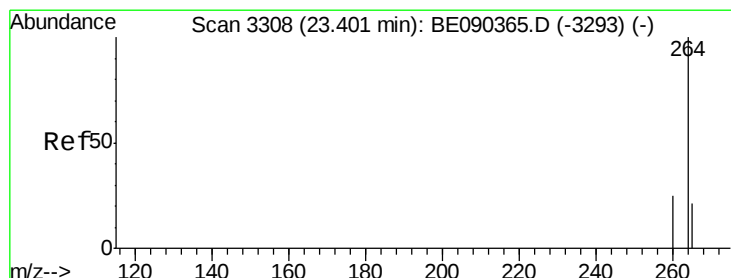
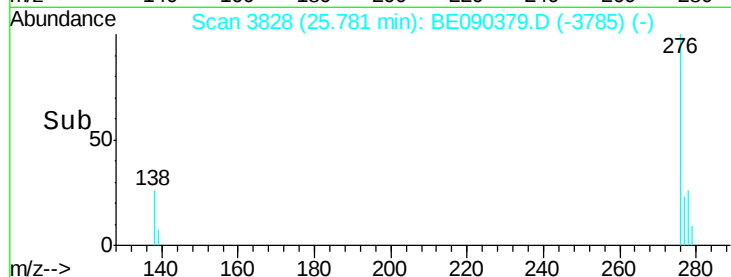
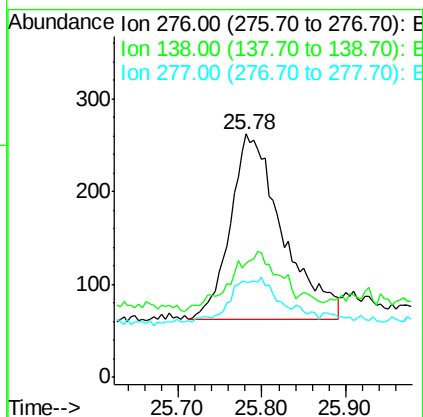
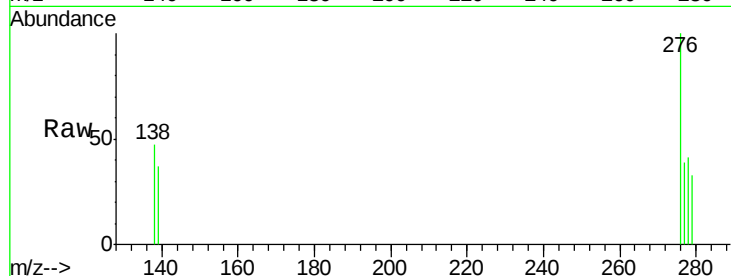




#31
Indeno(1,2,3-cd)pyrene
Concen: 0.28 ng
RT: 25.78 min Scan# 3828
Delta R.T. -0.00 min
Lab File: BE090379.D
Acq: 6 Aug 2015 7:19

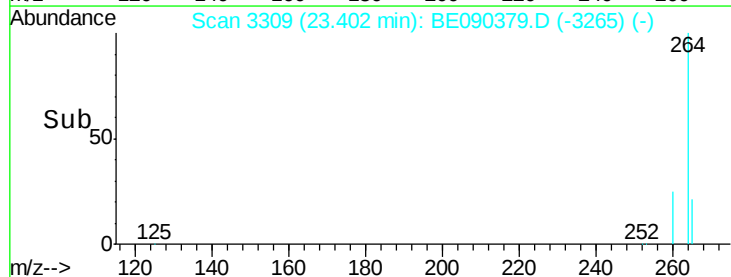
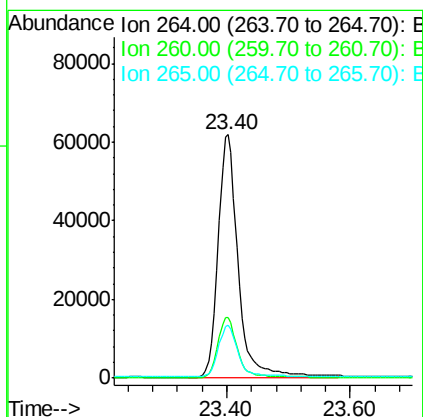
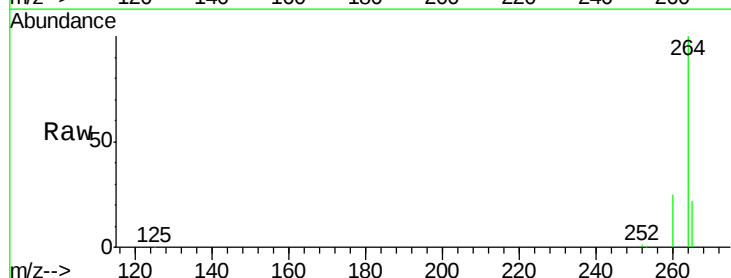
Instrument :
BNA_E
ClientSampleId :
080315-D506-E-U-B

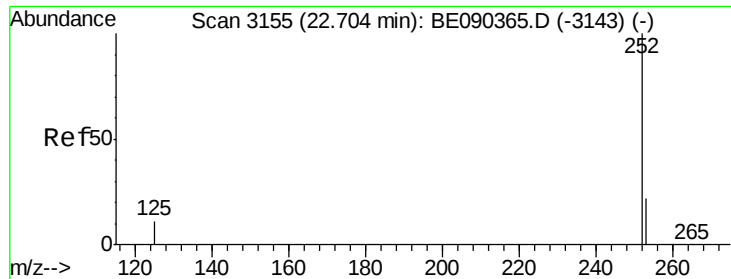
Tot Ion:276 Resp: 850
Ion Ratio Lower Upper
276 100
138 31.3 18.8 28.2#
277 9.5 18.2 27.4#



#32
Perylene-d12
Concen: 5.00 ng
RT: 23.40 min Scan# 3309
Delta R.T. 0.00 min
Lab File: BE090379.D
Acq: 6 Aug 2015 7:19

Tgt Ion:264 Resp: 140807
Ion Ratio Lower Upper
264 100
260 24.8 20.1 30.1
265 21.8 17.2 25.8





#33

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 22.71 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

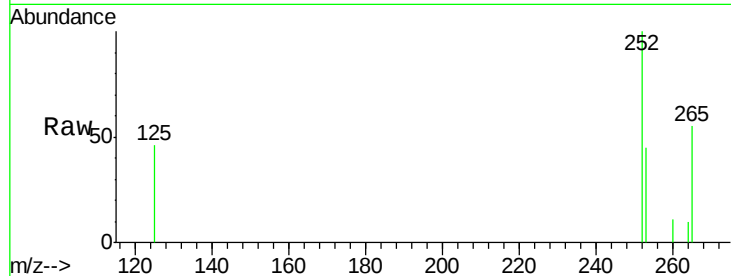
Tot Ion:252 Resp: 1048

Ion Ratio Lower Upper

252 100

253 44.7 18.1 27.1#

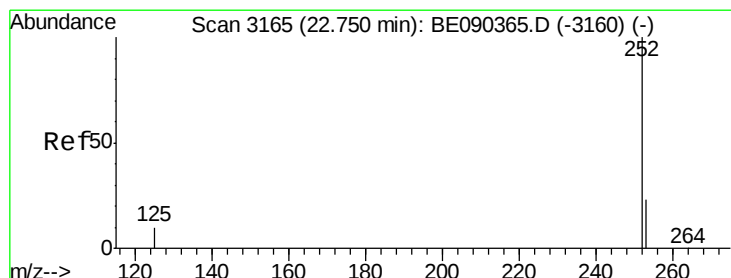
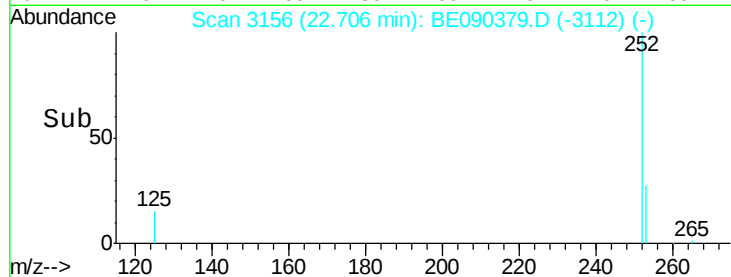
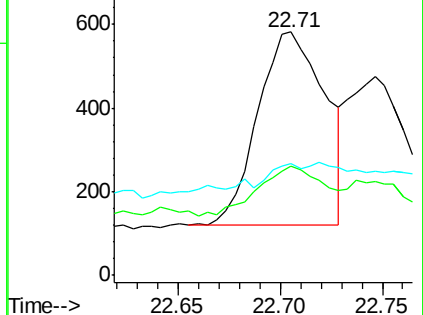
125 46.0 9.4 14.2#



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



#34

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 22.71 min Scan# 3156

Delta R.T. -0.04 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

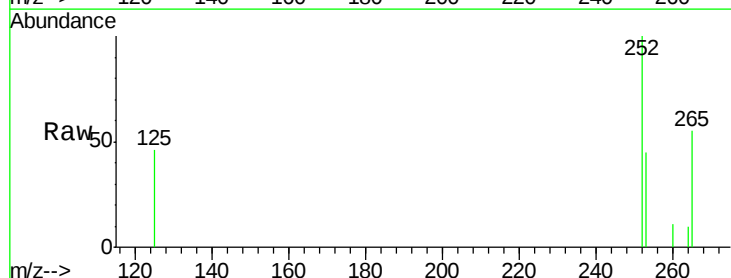
Tgt Ion:252 Resp: 1048

Ion Ratio Lower Upper

252 100

253 44.7 18.1 27.1#

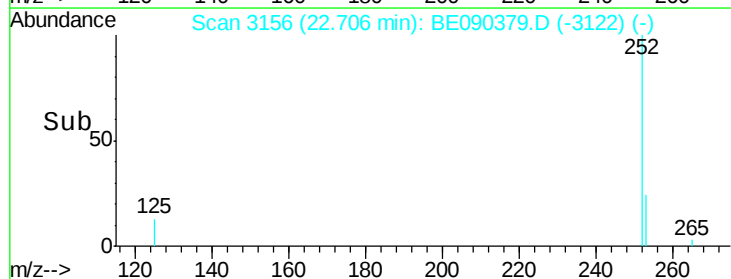
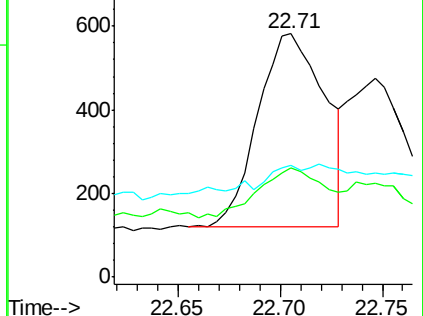
125 46.0 9.1 13.7#

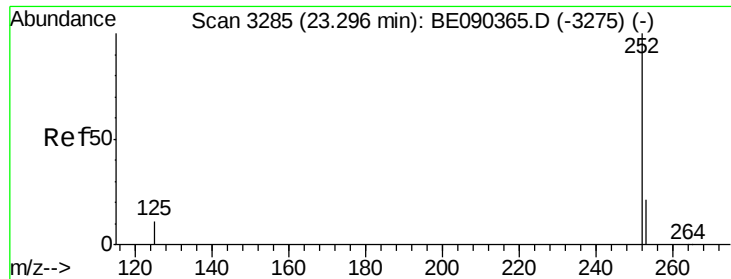


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.25 ng

RT: 23.29 min Scan# 3285

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

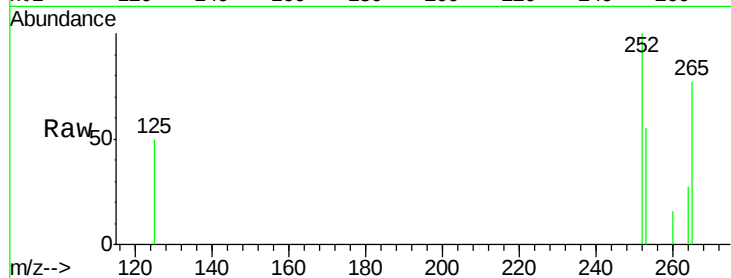
Tot Ion:252 Resp: 723

Ion Ratio Lower Upper

252 100

253 54.9 17.6 26.4#

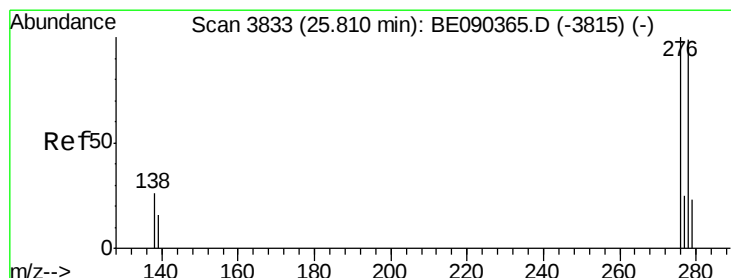
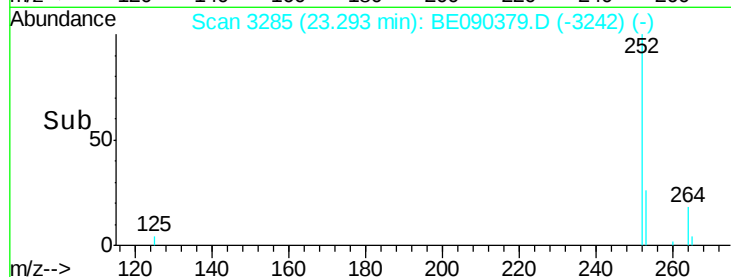
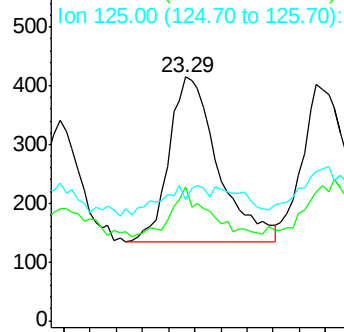
125 49.6 9.8 14.6#



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



#36

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 25.81 min Scan# 3834

Delta R.T. -0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

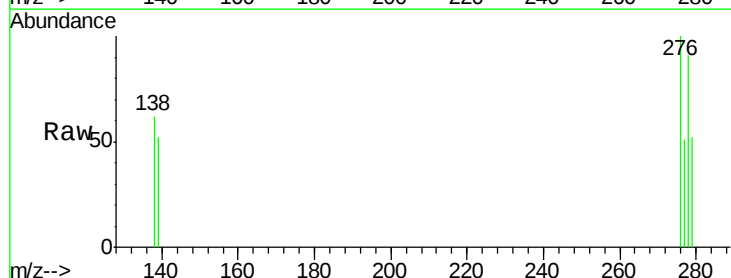
Tgt Ion:278 Resp: 481

Ion Ratio Lower Upper

278 100

139 56.7 14.2 21.4#

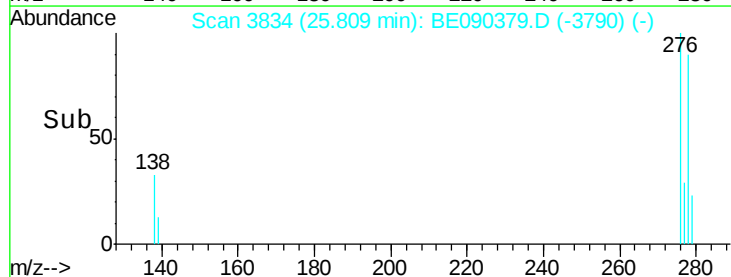
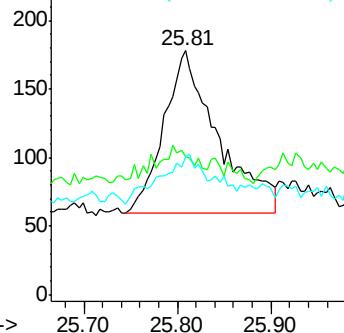
279 56.7 20.1 30.1#

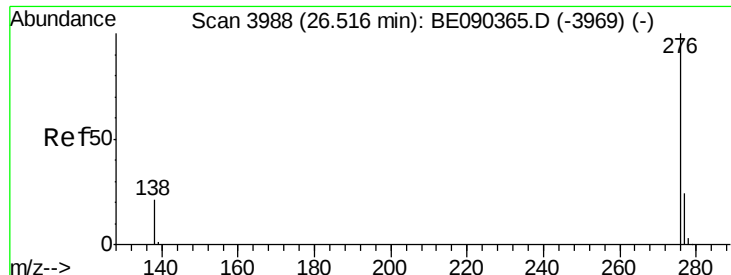


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(a,h,i)perylene

Concen: 0.03 ng

RT: 26.52 min Scan# 3990

Delta R.T. 0.00 min

Lab File: BE090379.D

Acq: 6 Aug 2015 7:19

Instrument :

BNA_E

ClientSampleId :

080315-D506-E-U-B

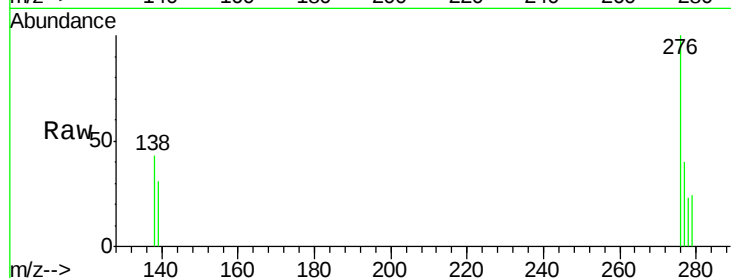
Tot Ion: 276 Resp: 903

Ion Ratio Lower Upper

276 100

277 39.5 20.1 30.1#

138 42.7 18.1 27.1#



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

