

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089586.D
 Acq On : 8 Feb 2015 11:25
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:31:59 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	31468	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	140972	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	79132	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	132016	5.00	ng	0.00
16) Chrysene-d12	23.72	240	114977	5.00	ng	0.00
22) Perylene-d12	25.40	264	103706	5.00	ng	-0.01

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	82378	8.80	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	160648	7.61	ng	0.00
18) Terphenyl-d14	22.36	244	166534	10.98	ng	0.00

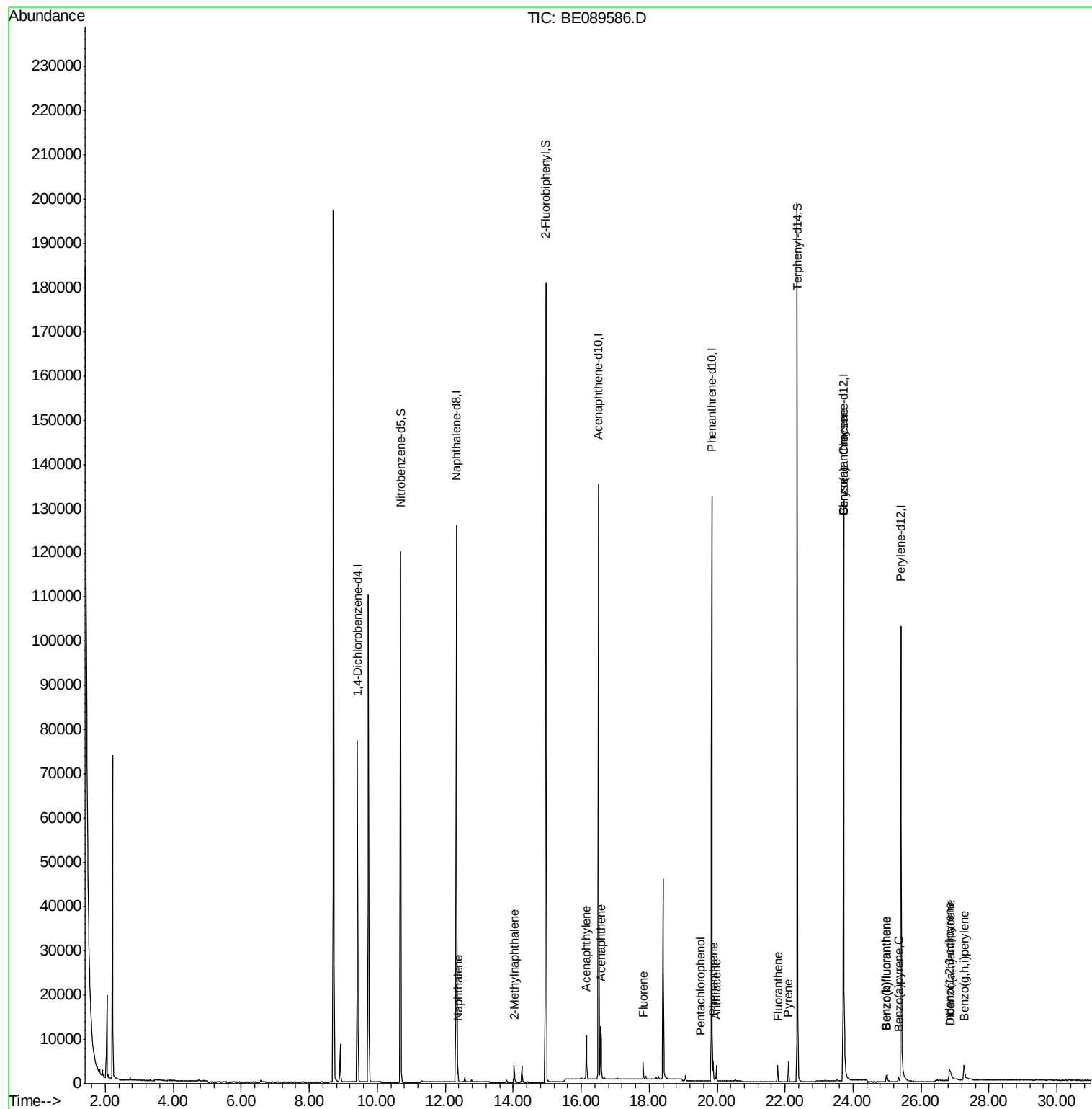
Target Compounds						Qvalue
4) Naphthalene	12.37	128	4114	0.13	ng	97
5) 2-Methylnaphthalene	14.03	142	2491	0.14	ng	# 90
8) Acenaphthylene	16.16	152	13204	0.10	ng	99
9) Acenaphthene	16.58	154	2261	0.11	ng	86
10) Fluorene	17.83	166	2570	0.11	ng	96
12) Pentachlorophenol	19.51	266	94	0.63	ng	92
13) Phenanthrene	19.89	178	4313	0.13	ng	100
14) Anthracene	19.98	178	3331	0.12	ng	99
15) Fluoranthene	21.78	202	3086	0.10	ng	96
17) Pyrene	22.10	202	3295	0.13	ng	99
19) Benzo(a)anthracene	23.70	228	10959	0.11	ng	97
20) Chrysene	23.70	228	10959	0.11	ng	99
21) Indeno(1,2,3-cd)pyrene	26.83	276	6898	0.05	ng	96
23) Benzo(b)fluoranthene	24.97	252	1345	0.07	ng	# 90
24) Benzo(k)fluoranthene	25.00	252	2804	0.11	ng	# 94
25) Benzo(a)pyrene	25.34	252	1476	0.07	ng	# 89
26) Dibenzo(a,h)anthracene	26.87	278	1199	0.05	ng	# 80
27) Benzo(g,h,i)perylene	27.26	276	7878	0.08	ng	# 90

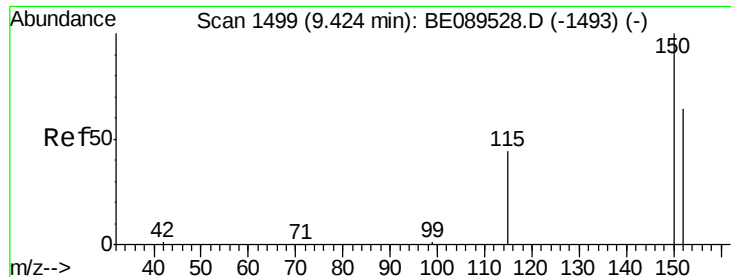
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1497

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

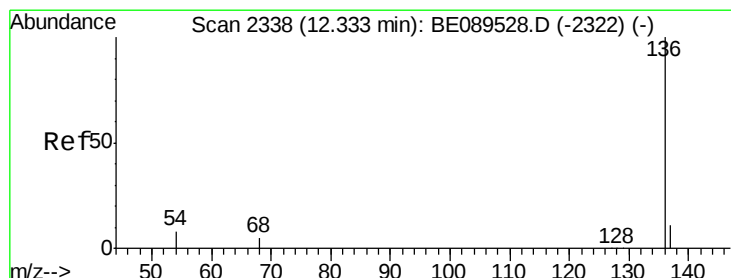
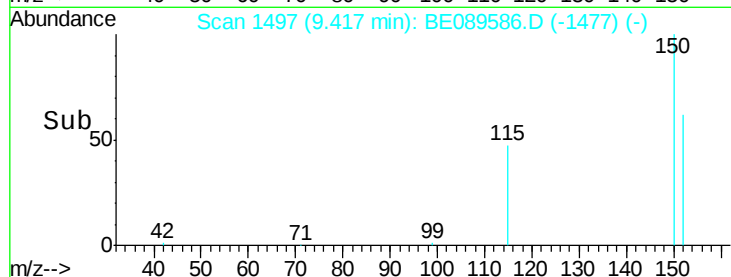
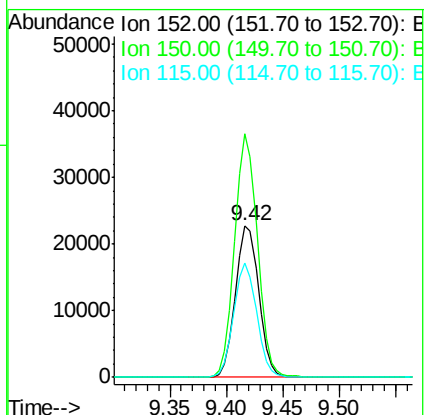
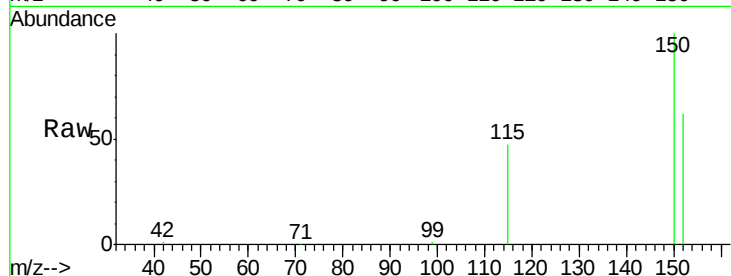
Tgt Ion:152 Resp: 31468

Ion Ratio Lower Upper

152 100

150 160.7 125.7 188.5

115 75.7 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

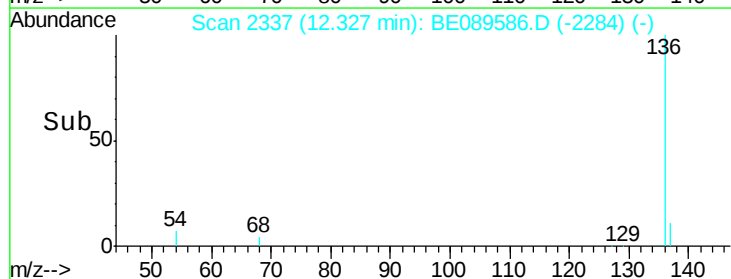
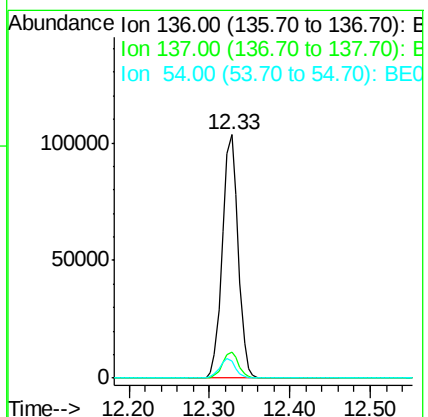
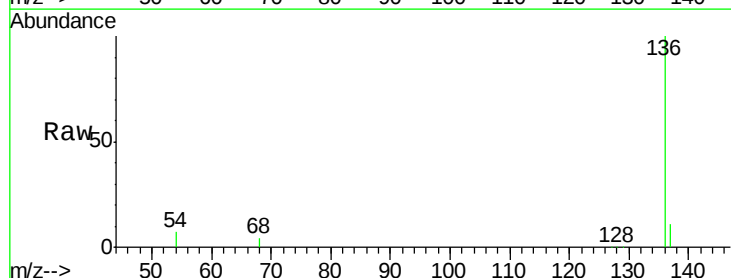
Tgt Ion:136 Resp: 140972

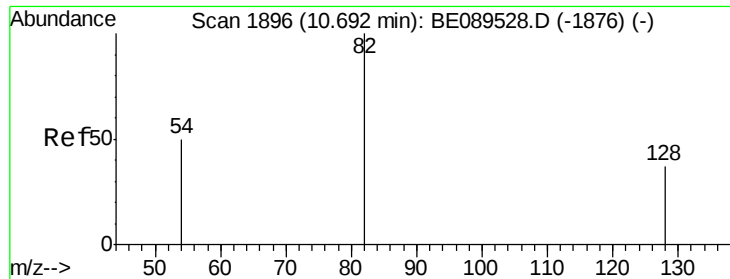
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 6.8 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.80 ng

RT: 10.68 min Scan# 1893

Delta R.T. -0.01 min

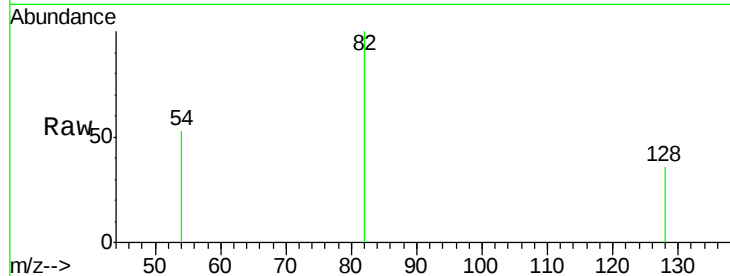
Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

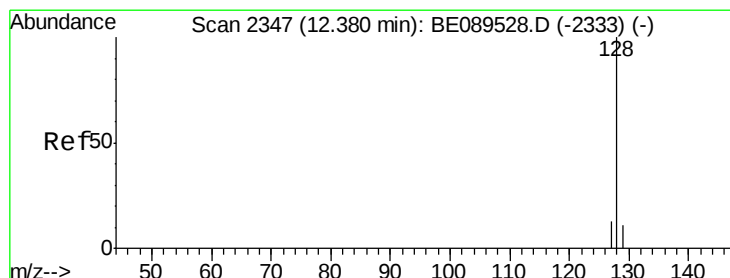
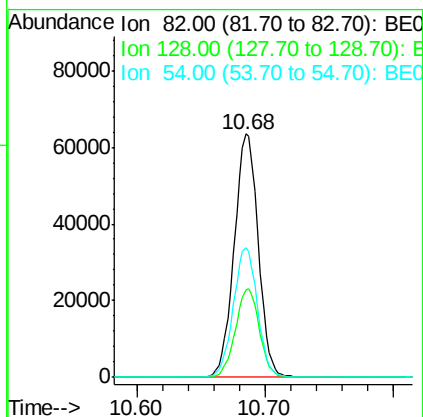
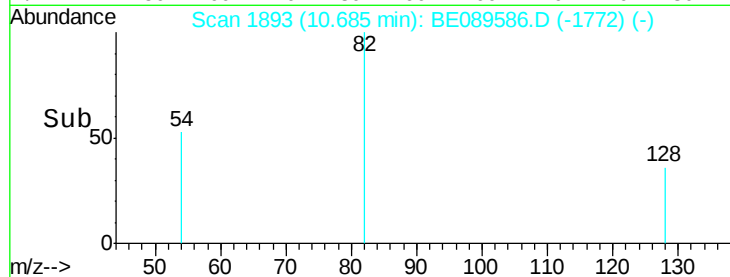
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	82378
Ion	Ratio	Lower	Upper
82	100		
128	36.0	30.2	45.4
54	53.5	40.6	60.8



#4

Naphthalene

Concen: 0.13 ng

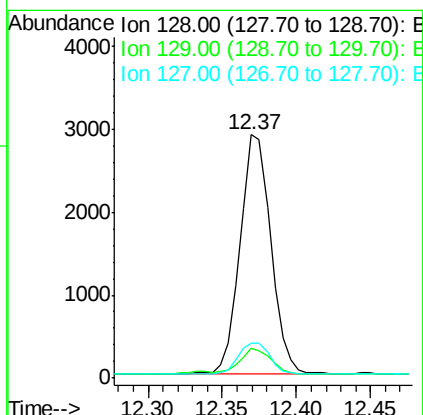
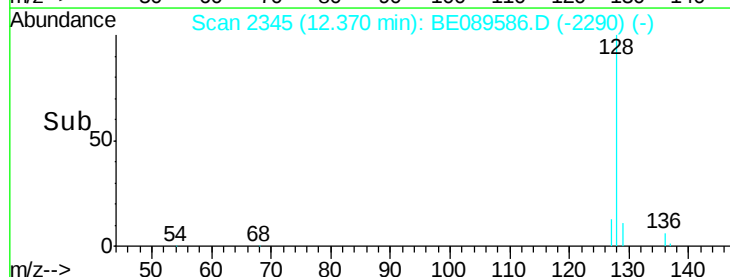
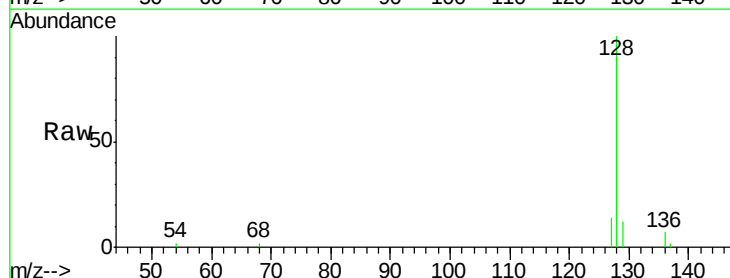
RT: 12.37 min Scan# 2345

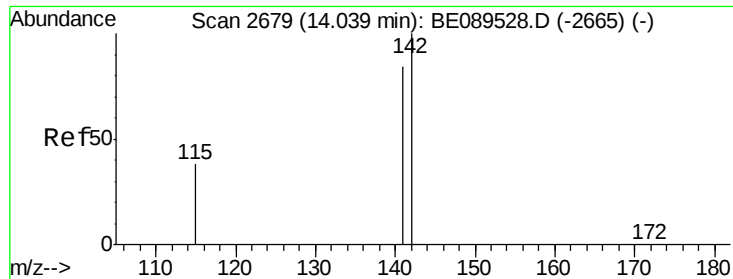
Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Tgt Ion:	128	Resp:	4114
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.1	13.7
127	14.2	10.5	15.7





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

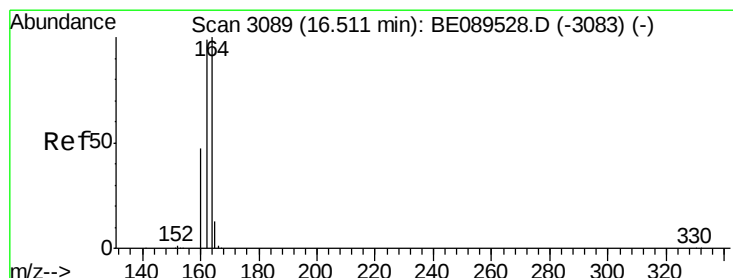
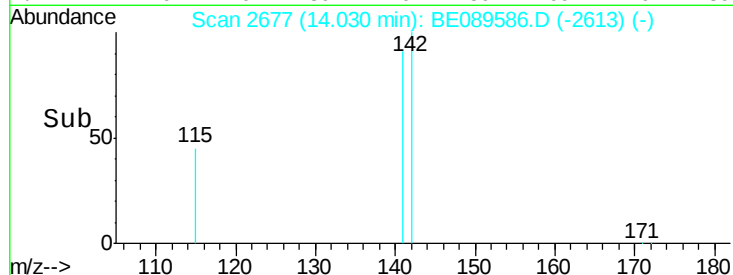
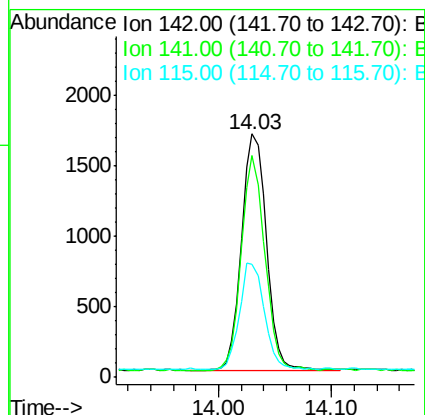
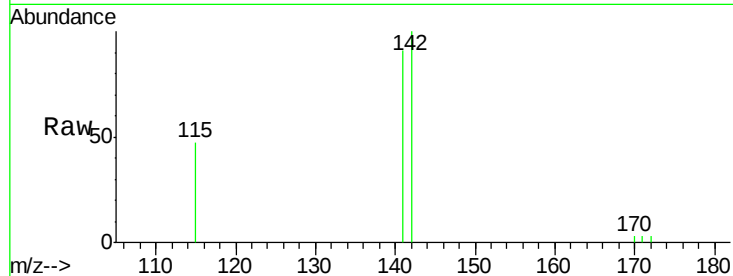
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:142 Resp: 2491

Ion	Ratio	Lower	Upper
142	100		
141	91.0	67.0	100.6
115	46.6	30.6	45.8#



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

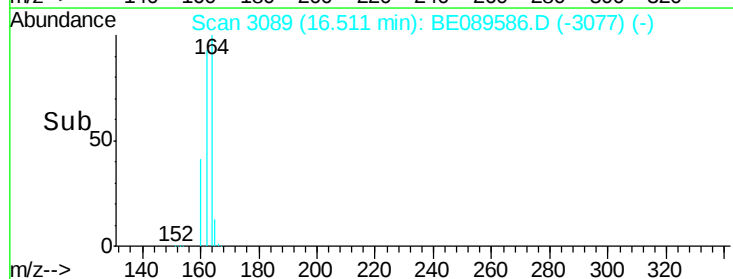
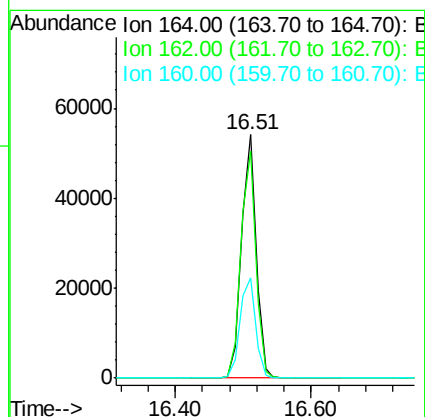
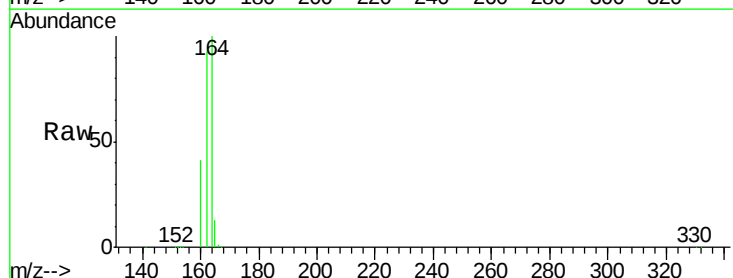
Delta R.T. -0.00 min

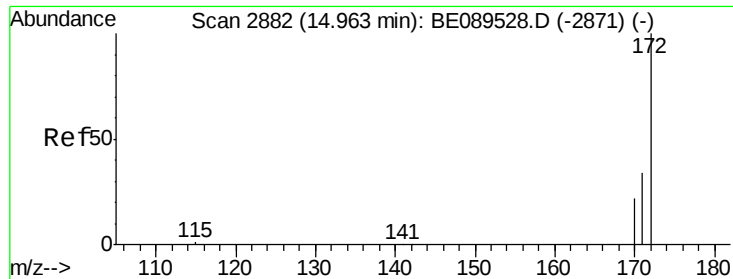
Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Tgt Ion:164 Resp: 79132

Ion	Ratio	Lower	Upper
164	100		
162	93.3	79.5	119.3
160	41.3	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.61 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

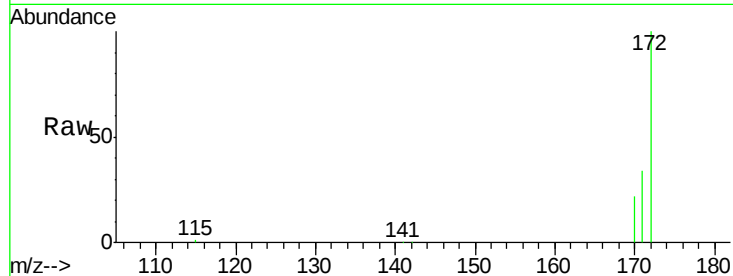
Tgt Ion:172 Resp: 160648

Ion Ratio Lower Upper

172 100

171 34.0 27.7 41.5

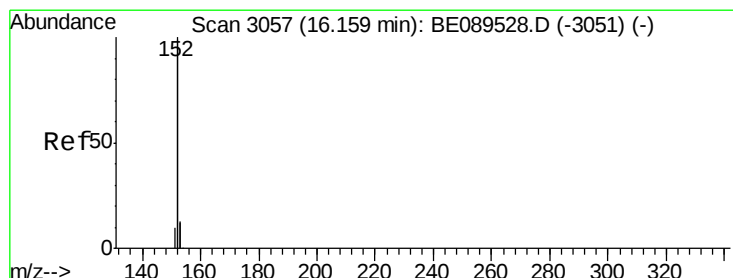
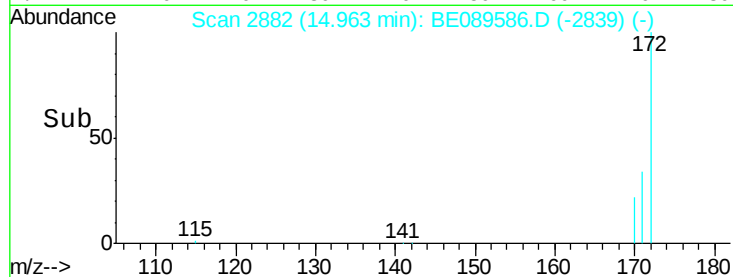
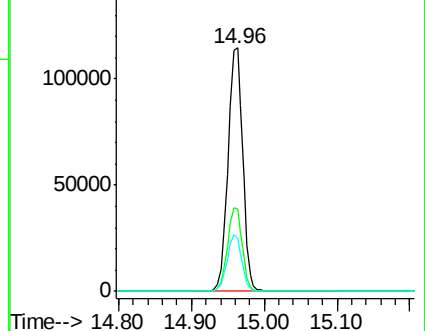
170 21.7 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.10 ng

RT: 16.16 min Scan# 3057

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

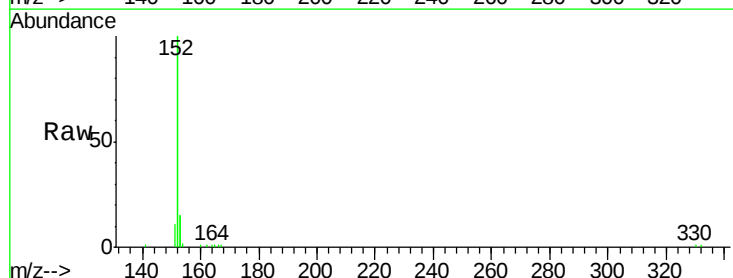
Tgt Ion:152 Resp: 13204

Ion Ratio Lower Upper

152 100

151 5.4 4.0 6.0

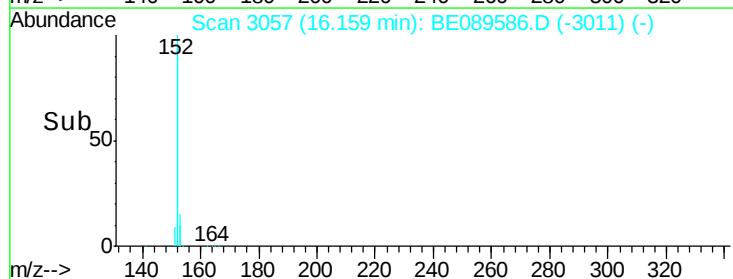
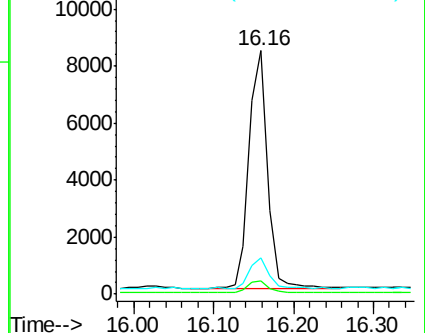
153 13.5 10.6 15.8

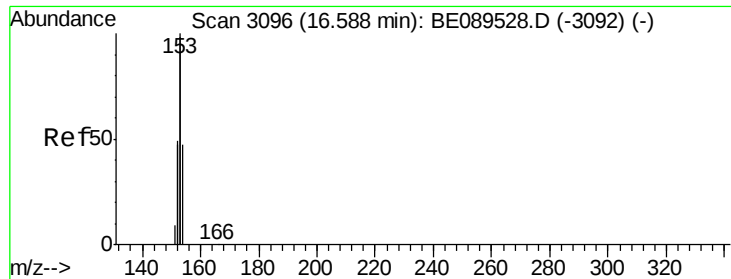


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

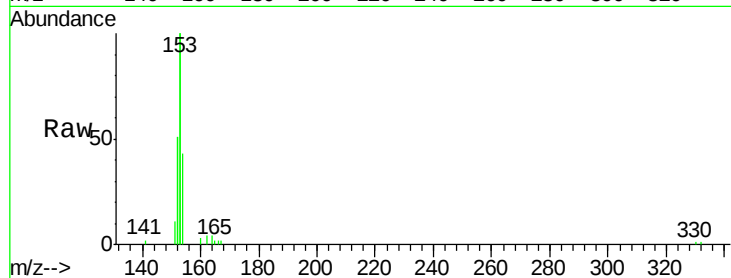
Tgt Ion:154 Resp: 2261

Ion Ratio Lower Upper

154 100

153 455.8 340.8 511.2

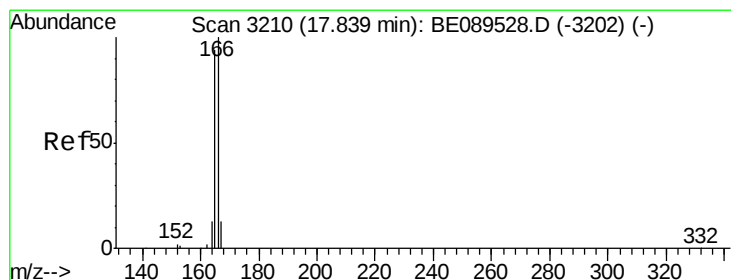
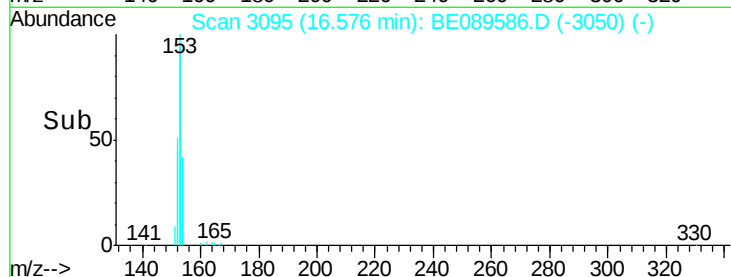
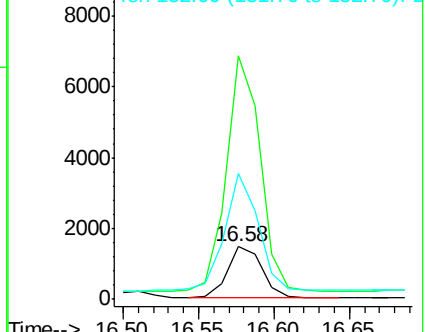
152 233.5 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.11 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

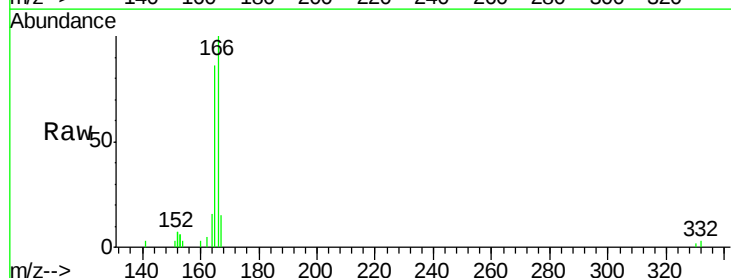
Tgt Ion:166 Resp: 2570

Ion Ratio Lower Upper

166 100

165 90.5 75.5 113.3

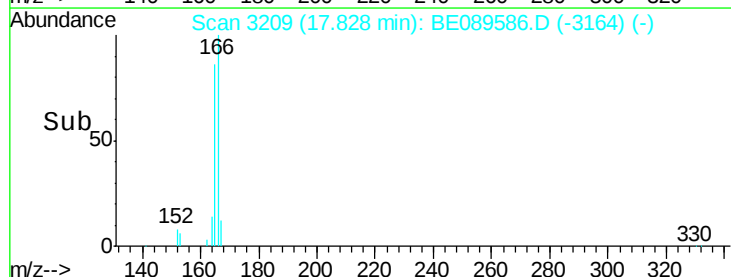
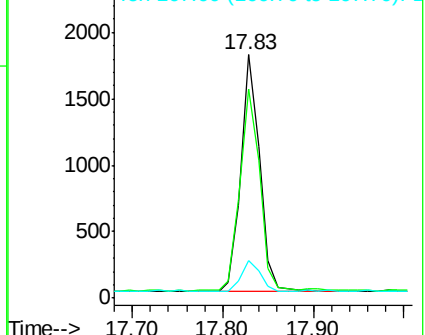
167 13.5 10.9 16.3

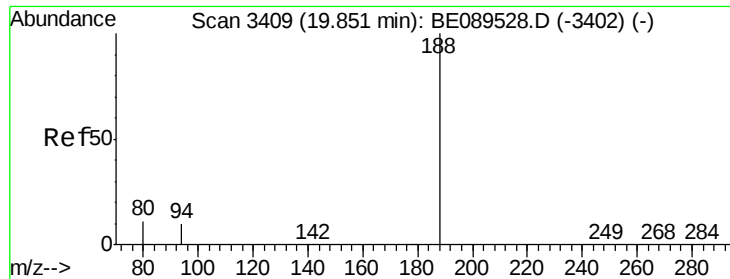


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

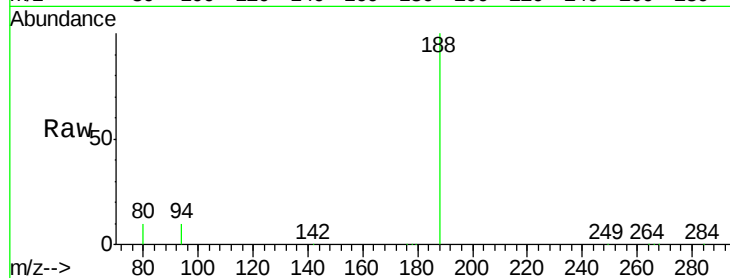




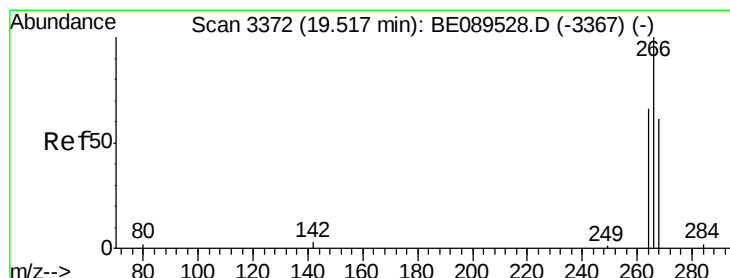
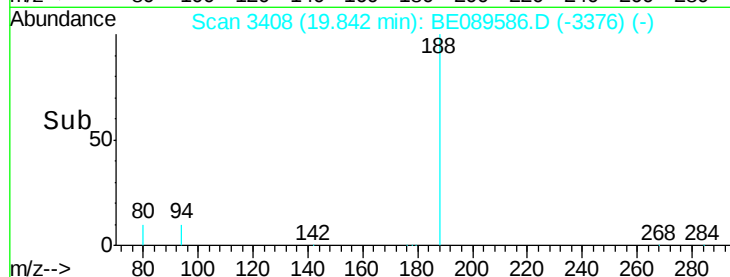
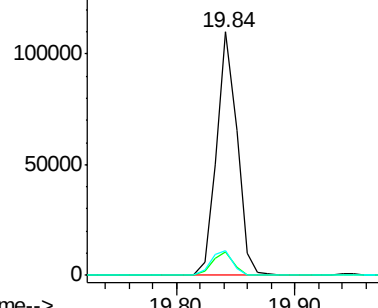
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 132016
Ion Ratio Lower Upper
188 100
94 9.6 8.4 12.6
80 10.3 8.6 12.8

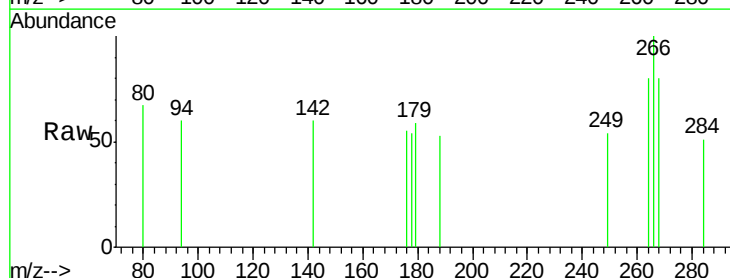


Abundance Ion 188.00 (187.70 to 188.70): E
150000
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

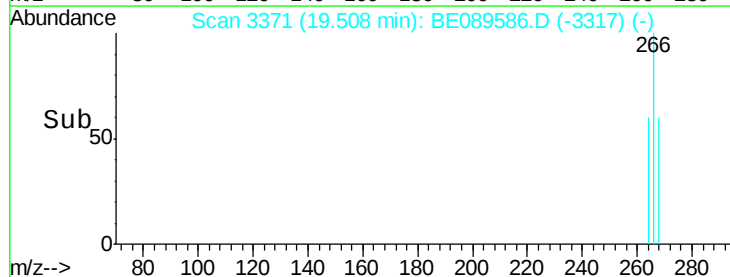
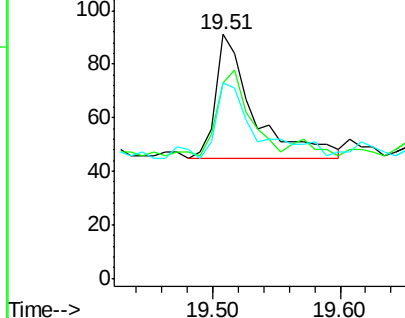


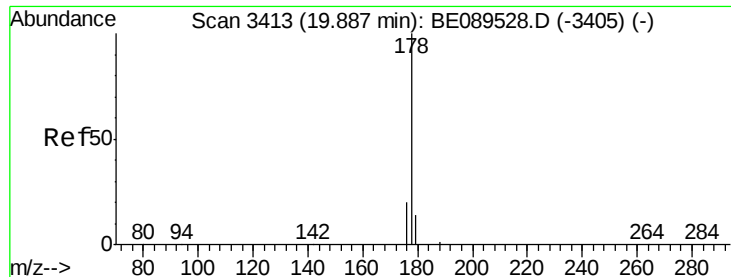
#12
Pentachlorophenol
Concen: 0.63 ng
RT: 19.51 min Scan# 3371
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:266 Resp: 94
Ion Ratio Lower Upper
266 100
268 80.2 57.9 86.9
264 80.2 60.2 90.4



Abundance Ion 265.70 (265.40 to 266.40): E
120
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

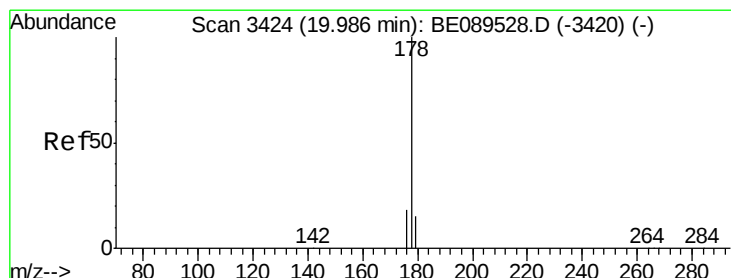
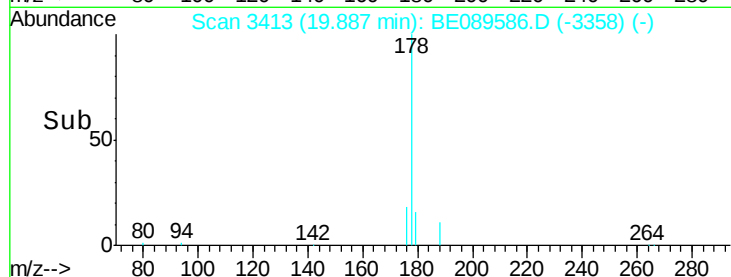
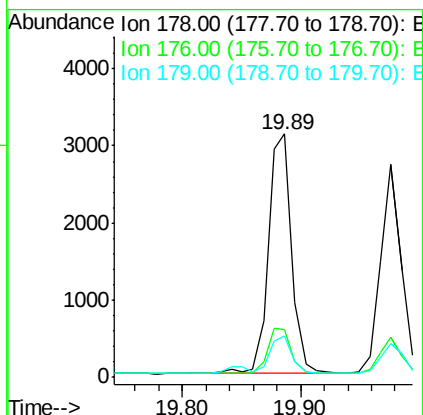
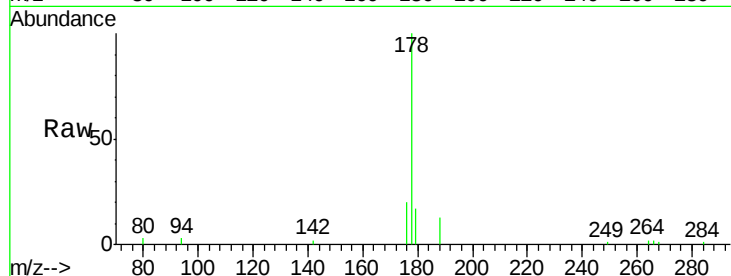




#13
Phenanthrene
Concen: 0.13 ng
RT: 19.89 min Scan# 3413
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

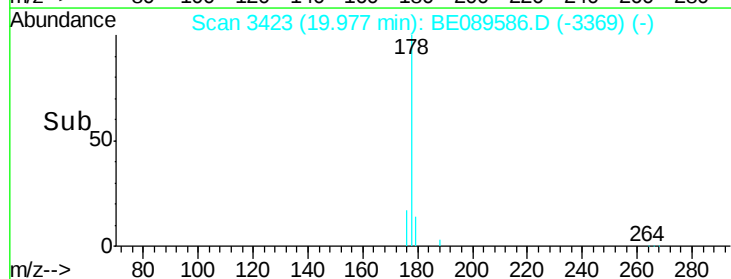
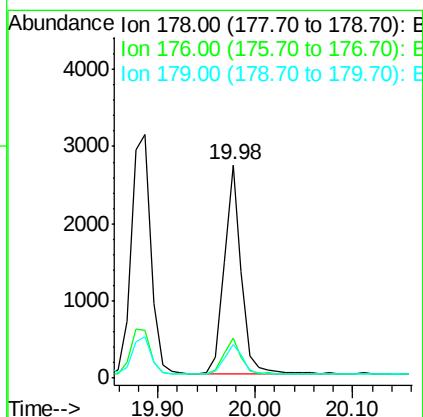
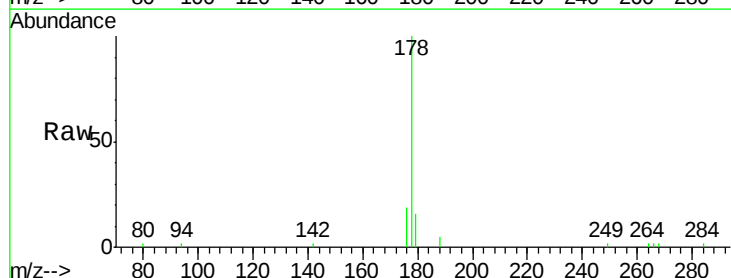
Instrument :
BNA_E
ClientSampleId :

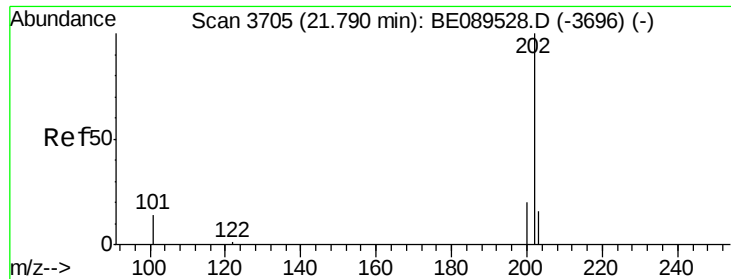
Tgt Ion:178 Resp: 4313
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 14.8 12.2 18.2



#14
Anthracene
Concen: 0.12 ng
RT: 19.98 min Scan# 3423
Delta R.T. -0.01 min
Lab File: BE089586.D
Acq: 8 Feb 2015 11:25

Tgt Ion:178 Resp: 3331
Ion Ratio Lower Upper
178 100
176 18.8 14.5 21.7
179 15.3 12.2 18.2

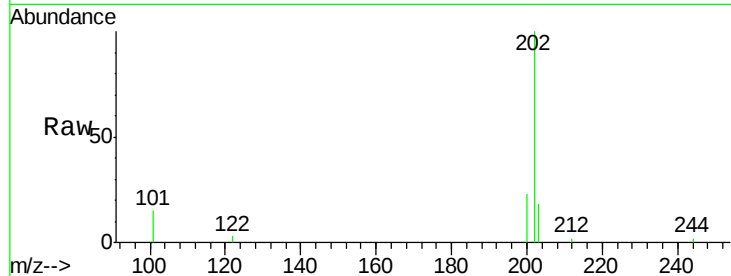




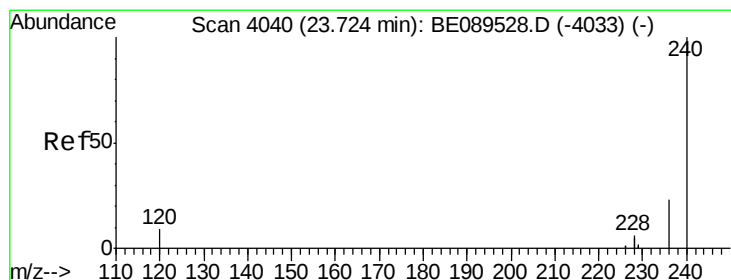
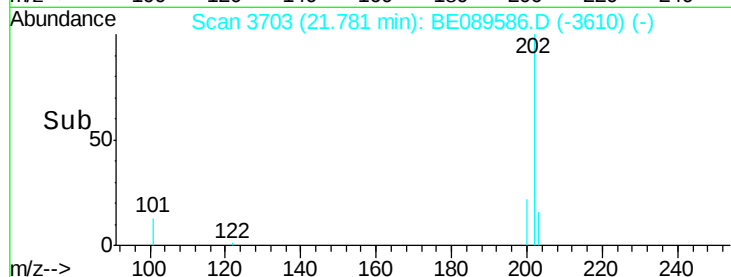
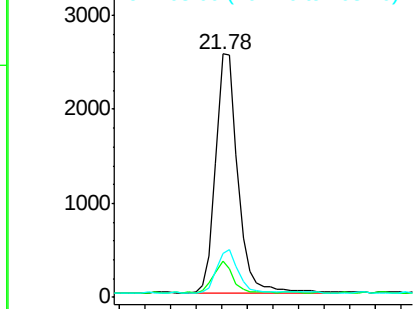
#15
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.01 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 3086
 Ion Ratio Lower Upper
 202 100
 101 11.7 11.6 17.4
 203 17.8 13.6 20.4

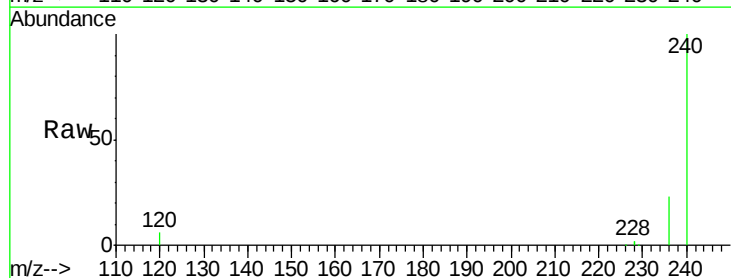


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

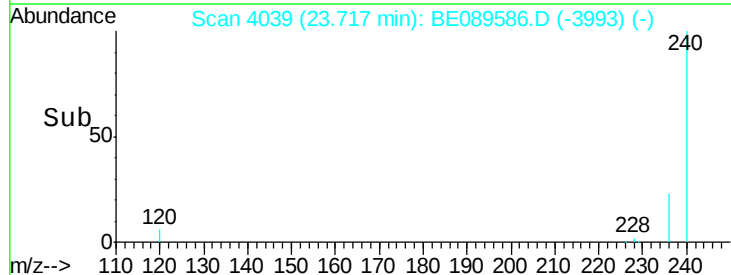
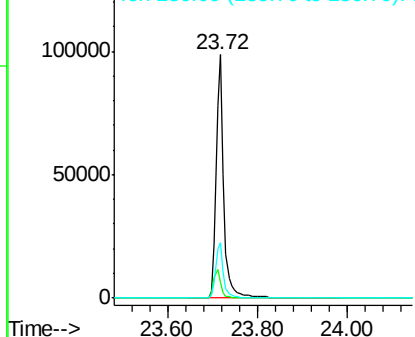


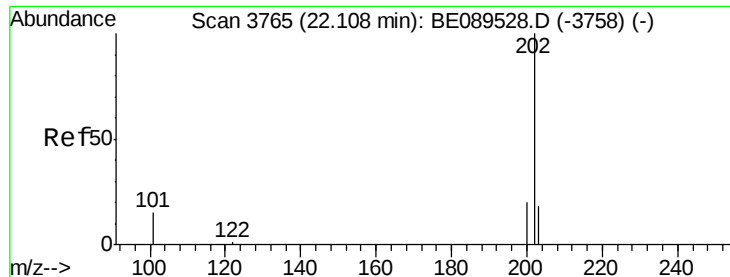
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Tgt Ion: 240 Resp: 114977
 Ion Ratio Lower Upper
 240 100
 120 6.4 7.2 10.8#
 236 22.9 18.5 27.7



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

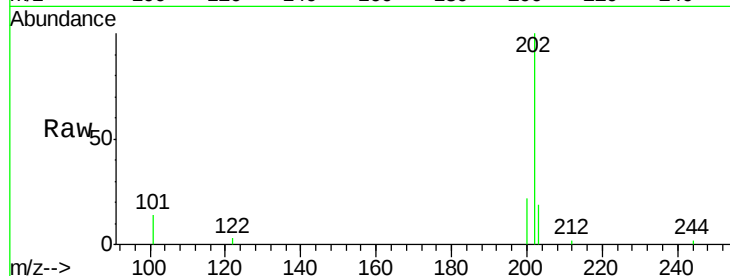




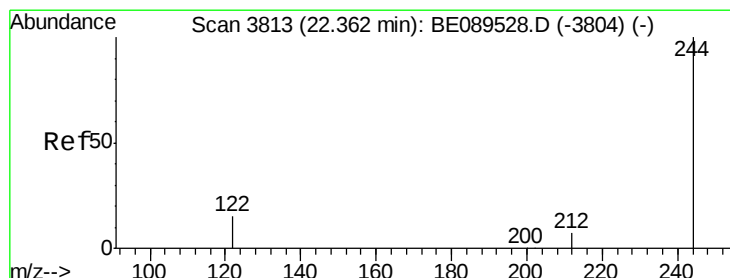
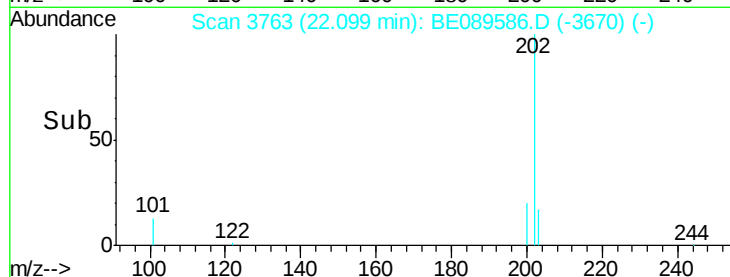
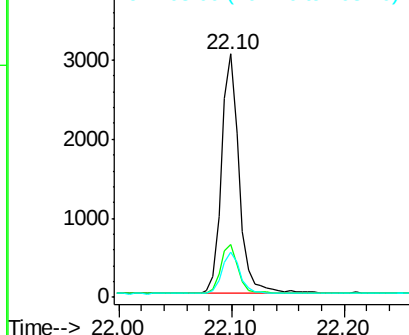
#17
 Pyrene
 Concen: 0.13 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. -0.01 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 3295
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 17.4 13.5 20.3

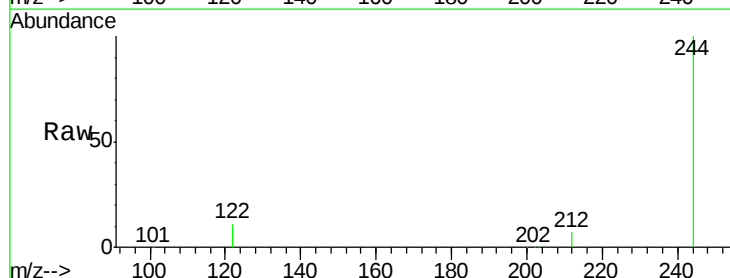


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

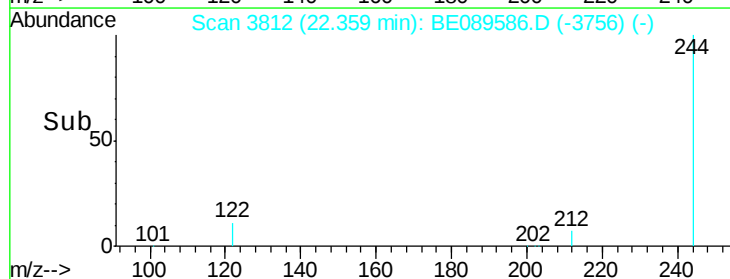
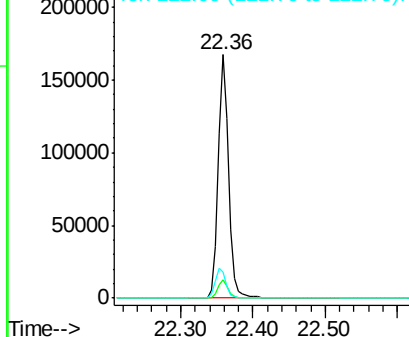


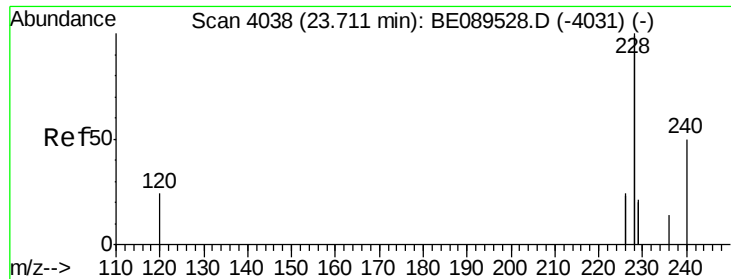
#18
 Terphenyl-d14
 Concen: 10.98 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. -0.00 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Tgt Ion: 244 Resp: 166534
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.8 8.8
 122 10.8 12.6 19.0#



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





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

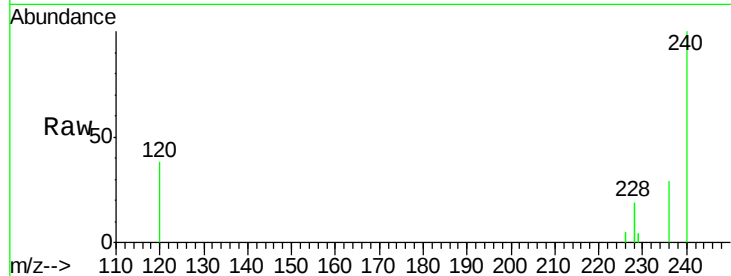
Tgt Ion:228 Resp: 10959

Ion Ratio Lower Upper

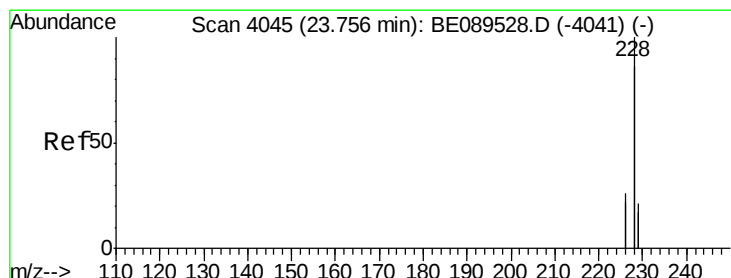
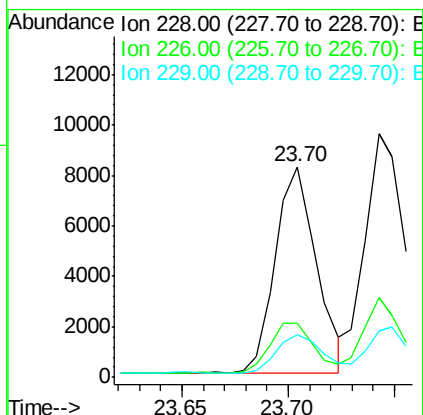
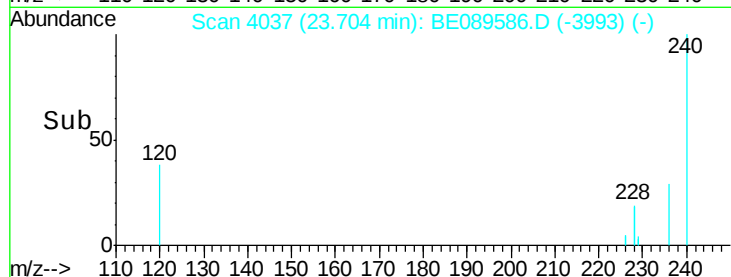
228 100

226 25.7 19.0 28.4

229 20.3 16.8 25.2



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



#20

Chrysene

Concen: 0.11 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.05 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

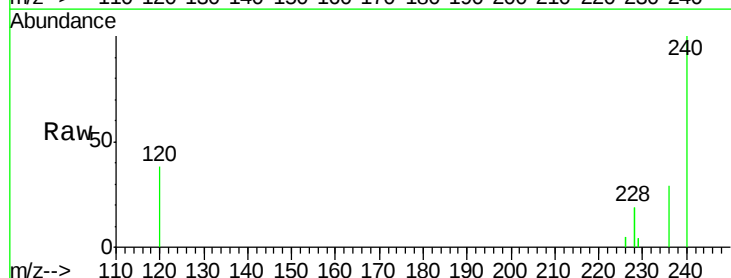
Tgt Ion:228 Resp: 10959

Ion Ratio Lower Upper

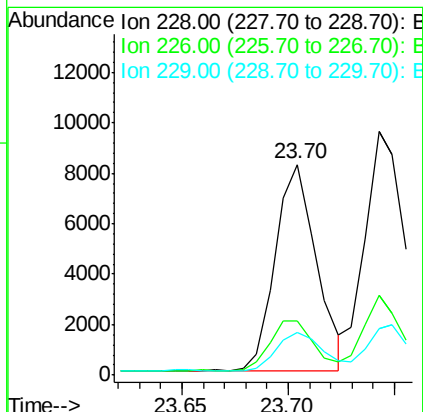
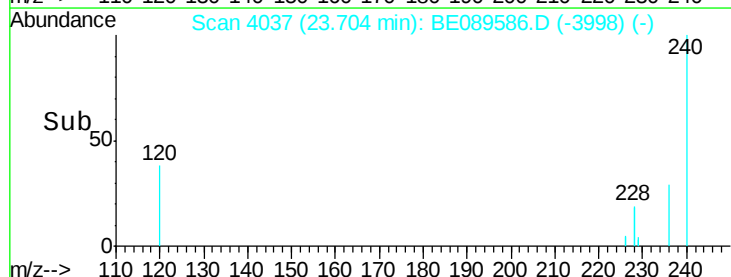
228 100

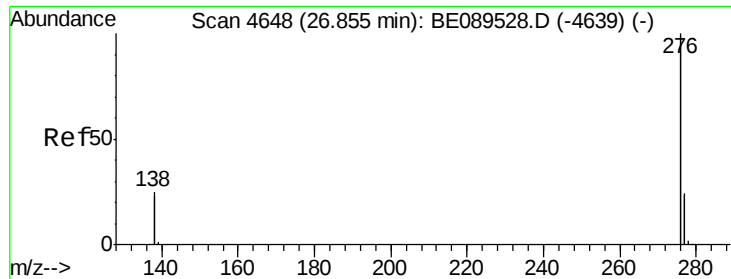
226 25.7 21.0 31.4

229 20.3 16.7 25.1



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

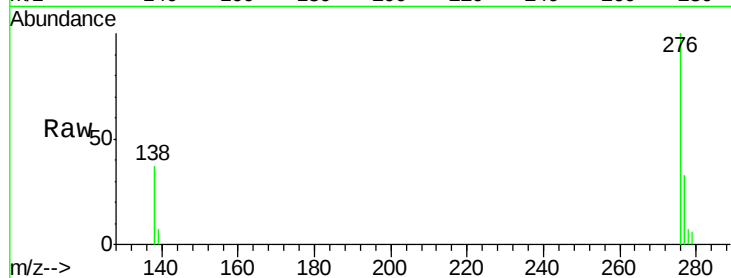




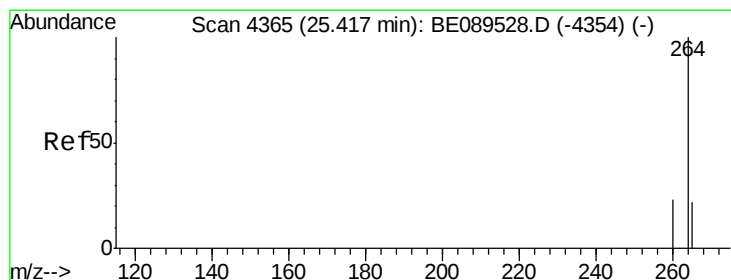
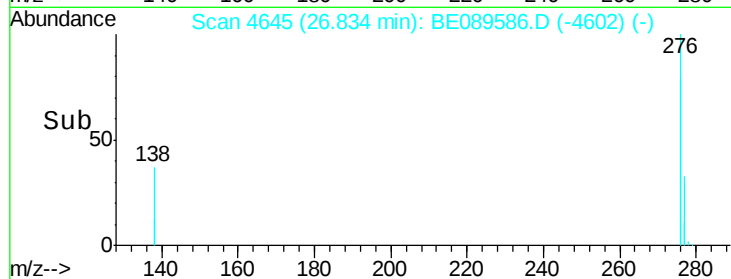
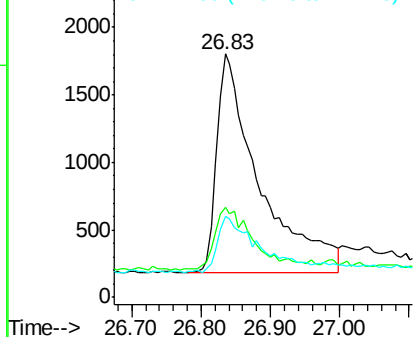
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.05 ng
 RT: 26.83 min Scan# 4645
 Delta R.T. -0.02 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 276 Resp: 6898
 Ion Ratio Lower Upper
 276 100
 138 25.0 23.0 34.4
 277 24.4 19.9 29.9

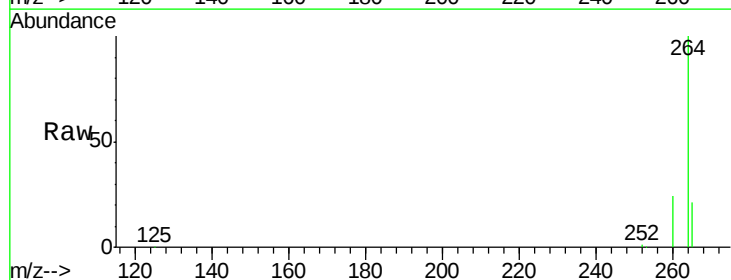


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

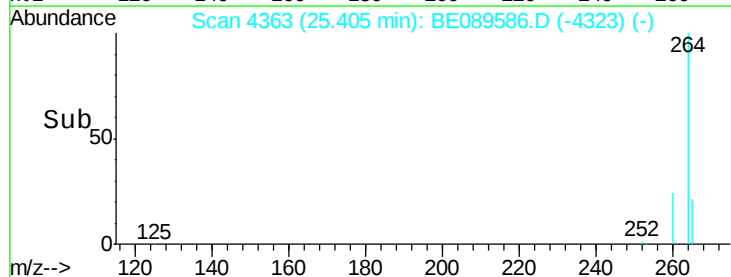
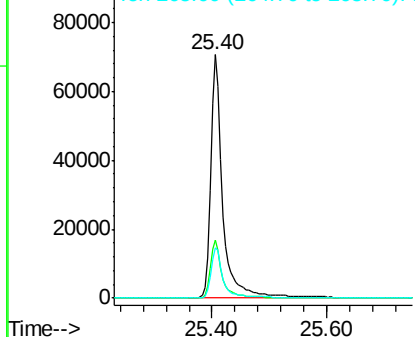


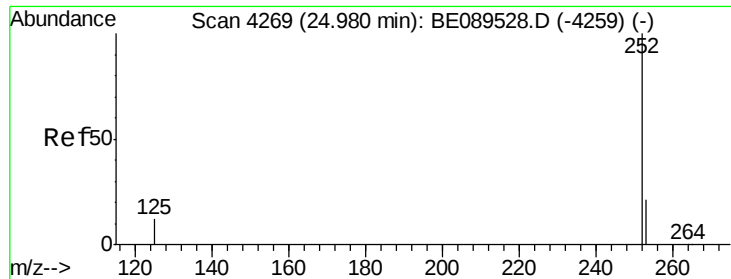
#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.40 min Scan# 4363
 Delta R.T. -0.01 min
 Lab File: BE089586.D
 Acq: 8 Feb 2015 11:25

Tgt Ion: 264 Resp: 103706
 Ion Ratio Lower Upper
 264 100
 260 24.0 18.7 28.1
 265 20.9 17.5 26.3



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





#23

Benzo(b)fluoranthene

Concen: 0.07 ng

RT: 24.97 min Scan# 4267

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

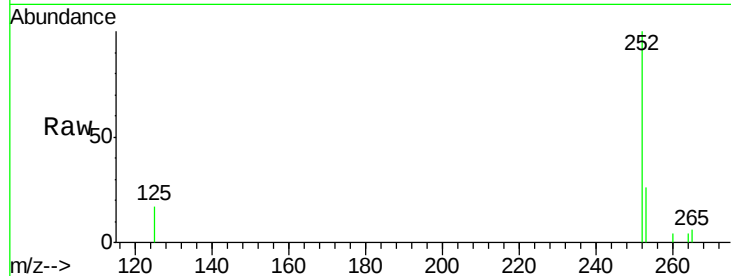
Tgt Ion:252 Resp: 1345

Ion Ratio Lower Upper

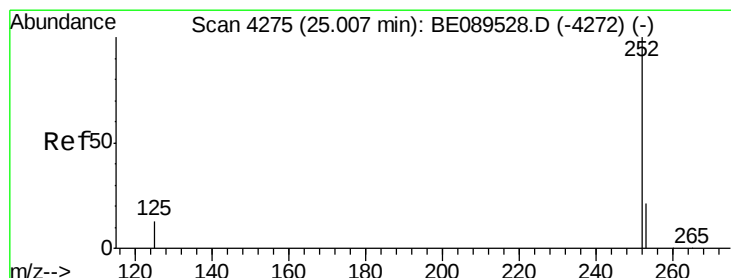
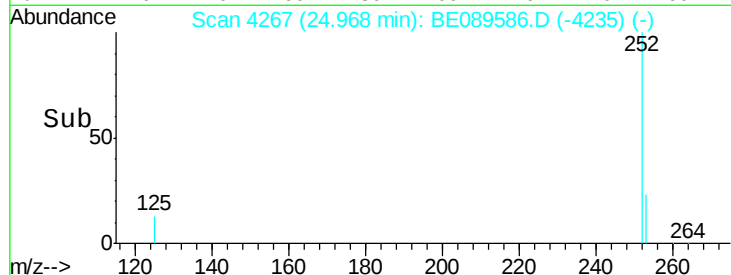
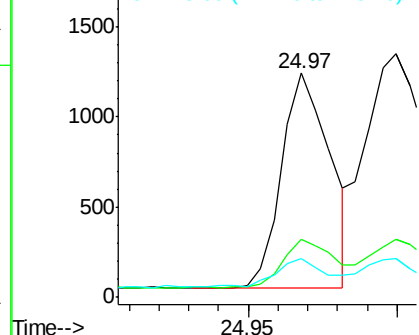
252 100

253 26.1 17.4 26.0#

125 17.1 10.4 15.6#



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



#24

Benzo(k)fluoranthene

Concen: 0.11 ng

RT: 25.00 min Scan# 4274

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

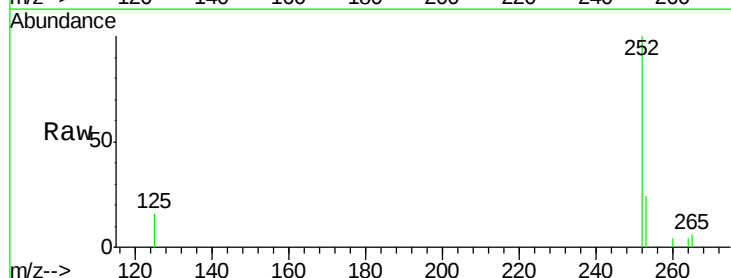
Tgt Ion:252 Resp: 2804

Ion Ratio Lower Upper

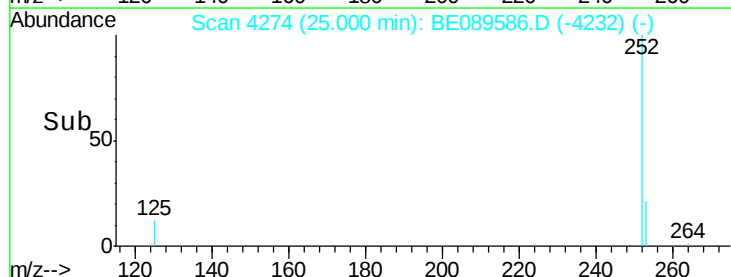
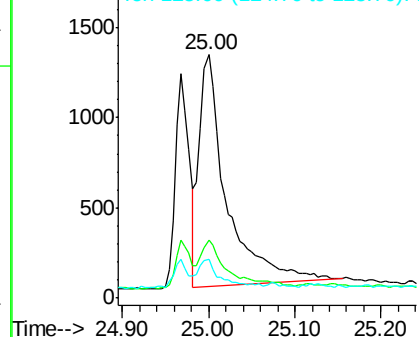
252 100

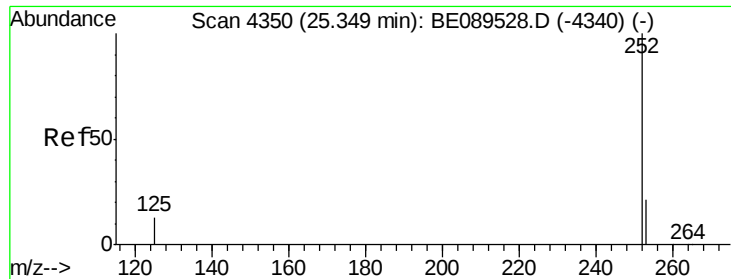
253 24.1 17.2 25.8

125 15.9 10.6 15.8#



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





#25

Benzo(a)pyrene

Concen: 0.07 ng

RT: 25.34 min Scan# 4348

Delta R.T. -0.01 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :

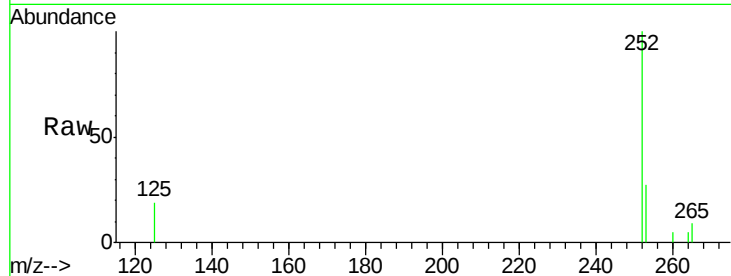
Tgt Ion:252 Resp: 1476

Ion Ratio Lower Upper

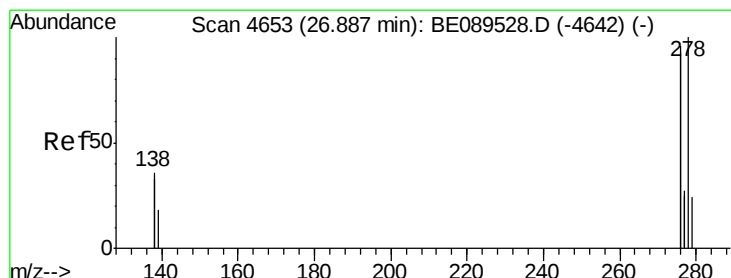
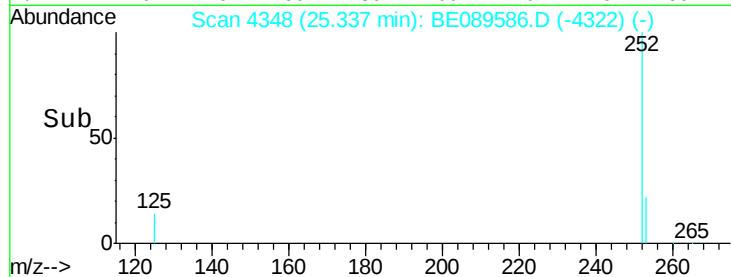
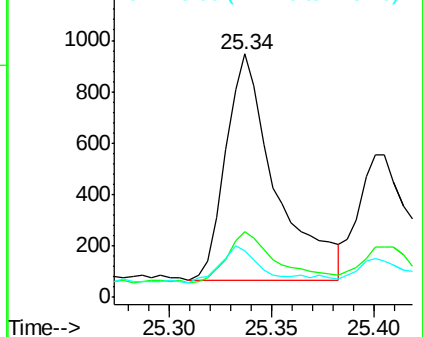
252 100

253 26.8 17.8 26.6#

125 19.3 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.05 ng

RT: 26.87 min Scan# 4650

Delta R.T. -0.02 min

Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

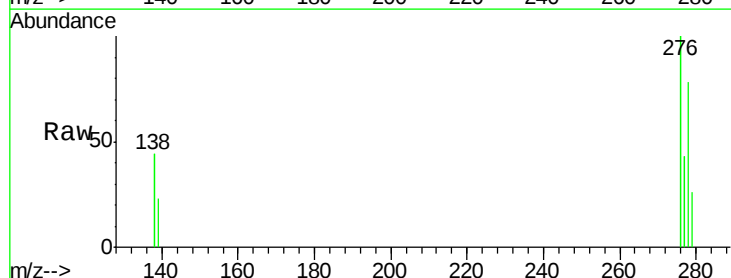
Tgt Ion:278 Resp: 1199

Ion Ratio Lower Upper

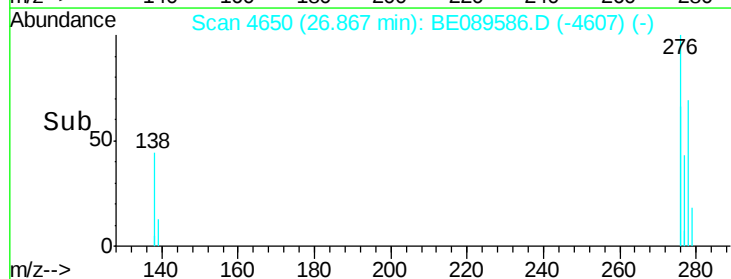
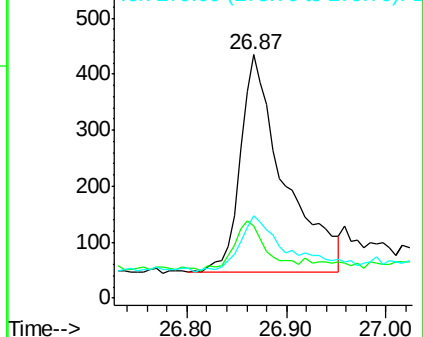
278 100

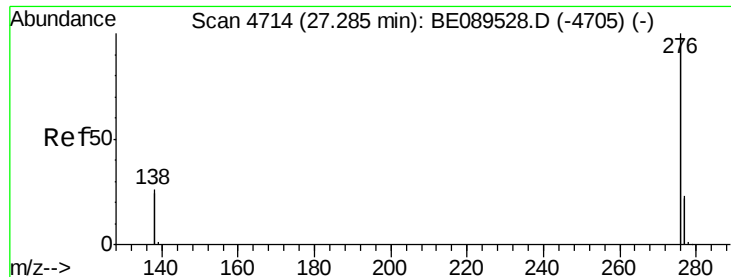
139 29.4 15.7 23.5#

279 34.0 19.5 29.3#



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





#27

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 27.26 min Scan# 4711

Delta R.T. -0.02 min

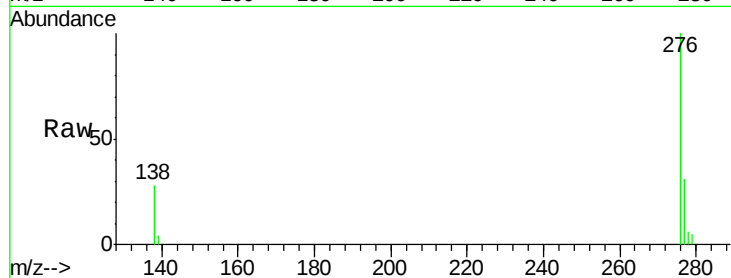
Lab File: BE089586.D

Acq: 8 Feb 2015 11:25

Instrument :

BNA_E

ClientSampleId :



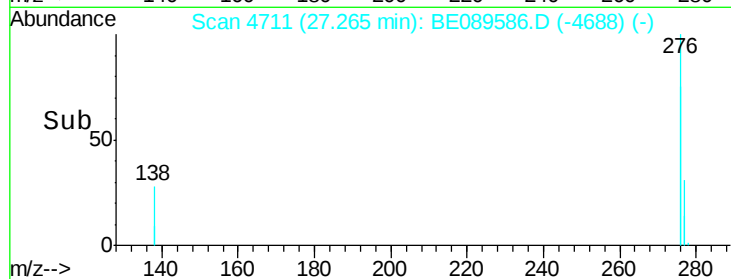
Tgt Ion: 276 Resp: 7878

Ion Ratio Lower Upper

276 100

277 31.4 18.6 27.8#

138 27.8 20.9 31.3



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

