

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094968.D
 Acq On : 9 Dec 2017 2:48
 Operator : SJ/JU
 Sample : I6757-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-171205

Quant Time: Dec 09 03:21:33 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	7425	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	16491	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	9577	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	23866	0.40	ng	0.00
27) Chrysene-d12	21.89	240	24570	0.40	ng	0.00
34) Perylene-d12	24.56	264	20034	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	1930	0.16	ng	0.00
5) Phenol-d6	7.60	99	1978	0.11	ng	0.00
8) Nitrobenzene-d5	9.66	82	5304	0.54	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	9053	0.34	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	914	0.46	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	16158	0.39	ng	0.00
25) Fluoranthene-d10	19.76	212	107711	0.33	ng	0.00
29) Terphenyl-d14	20.33	244	20909	0.46	ng	0.00

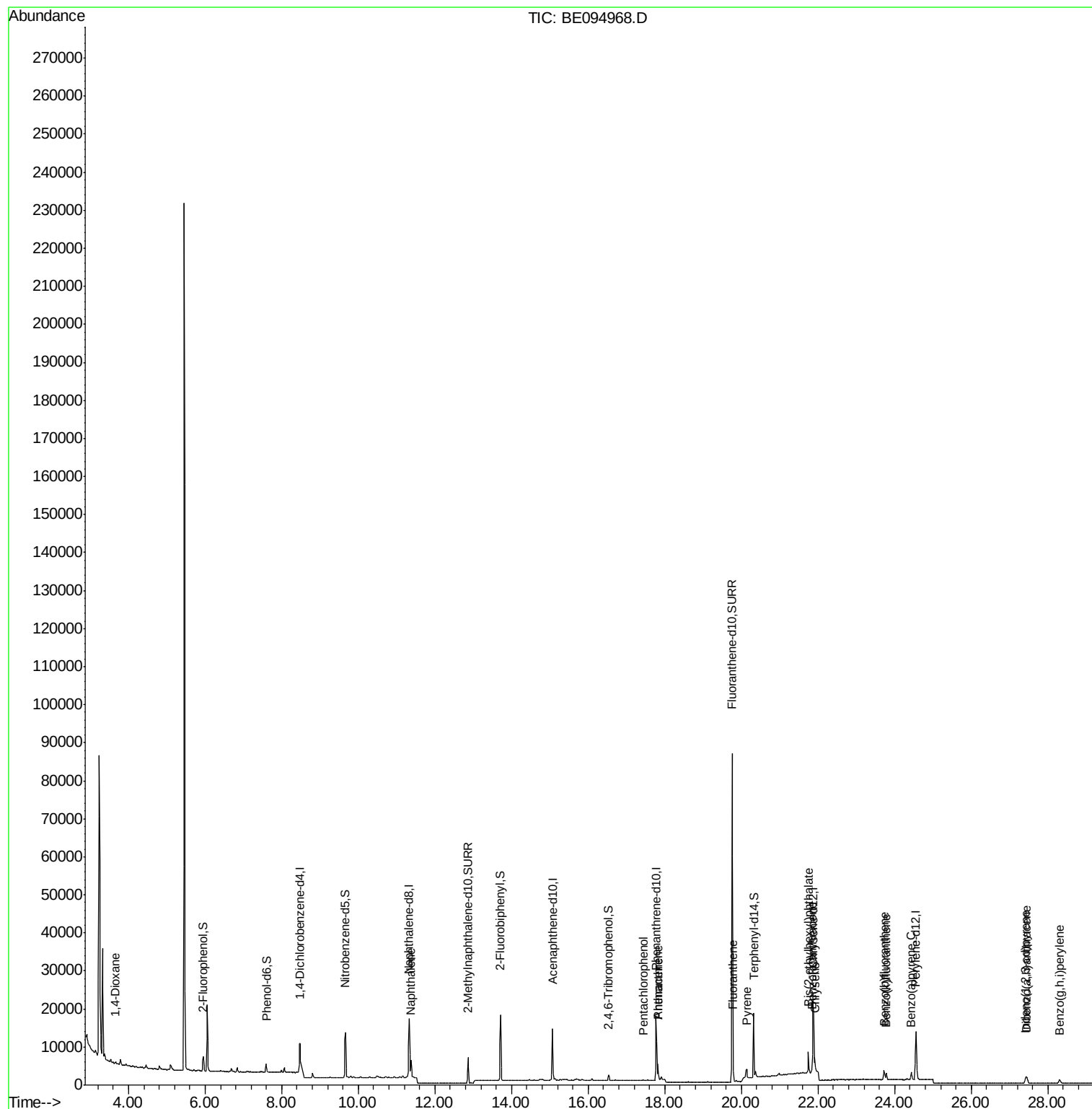
Target Compounds						Qvalue
2) 1,4-Dioxane	3.66	88	501	0.064	ng	# 25
9) Naphthalene	11.38	128	9800	0.051	ng	# 96
22) Pentachlorophenol	17.43	266	69	0.149	ng	# 96
23) Phenanthrene	17.82	178	4381	0.058	ng	# 96
24) Anthracene	17.82	178	4381	0.054	ng	# 95
26) Fluoranthene	19.79	202	3724	0.038	ng	# 97
28) Pyrene	20.14	202	2938	0.035	ng	# 93
30) Benzo(a)anthracene	21.85	228	3450	0.046	ng	# 63
31) Chrysene	21.92	228	4204	0.050	ng	# 67
32) Bis(2-ethylhexyl)phthalate	21.75	149	6738	0.054	ng	# 98
33) Indeno(1,2,3-cd)pyrene	27.42	276	2829	0.042	ng	# 70
35) Benzo(b)fluoranthene	23.73	252	3526	0.048	ng	# 53
36) Benzo(k)fluoranthene	23.78	252	2927	0.039	ng	# 53
37) Benzo(a)pyrene	24.44	252	2731	0.043	ng	# 63
38) Dibenzo(a,h)anthracene	27.45	278	2238	0.038	ng	# 64
39) Benzo(g,h,i)perylene	28.31	276	2465	0.042	ng	# 61

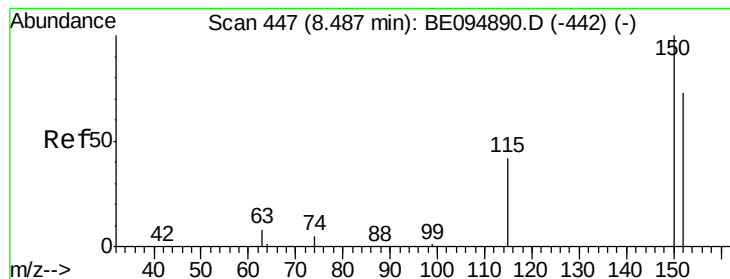
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.48 min Scan# 447

Delta R.T. -0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

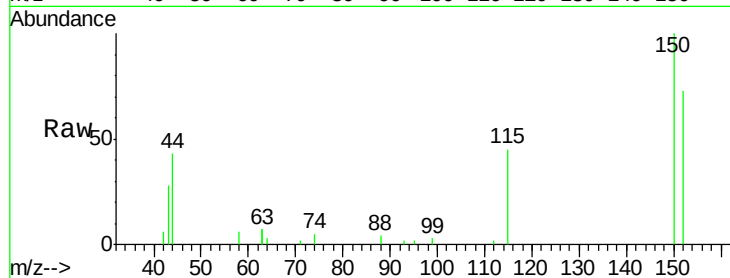
Tot Ion:152 Resp: 7425

Ion Ratio Lower Upper

152 100

150 136.8 117.2 175.8

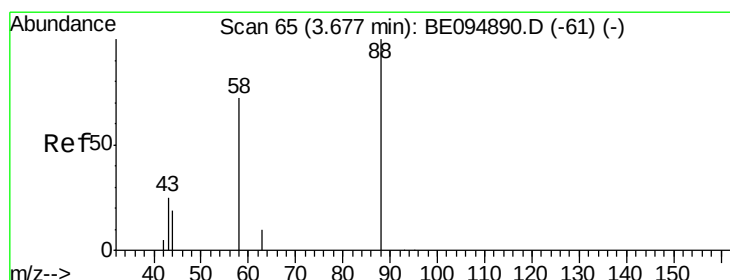
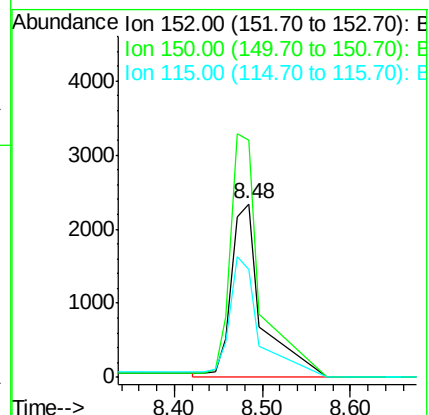
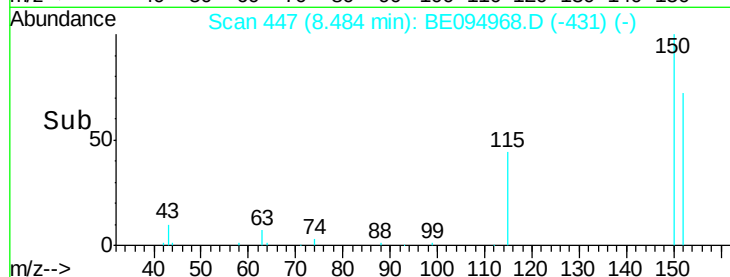
115 62.1 57.0 85.6



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: 0.064 ng

RT: 3.66 min Scan# 64

Delta R.T. -0.02 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

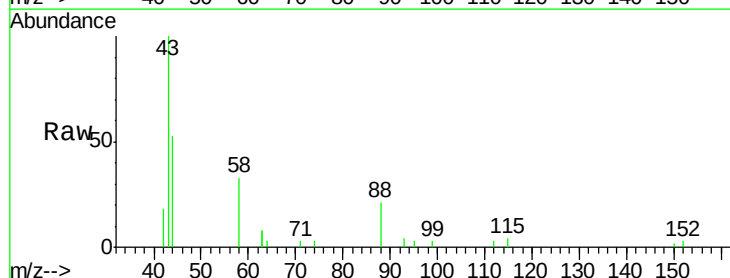
Tgt Ion: 88 Resp: 501

Ion Ratio Lower Upper

88 100

58 68.1 63.2 94.8

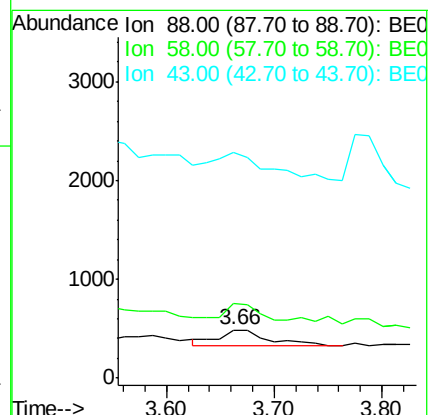
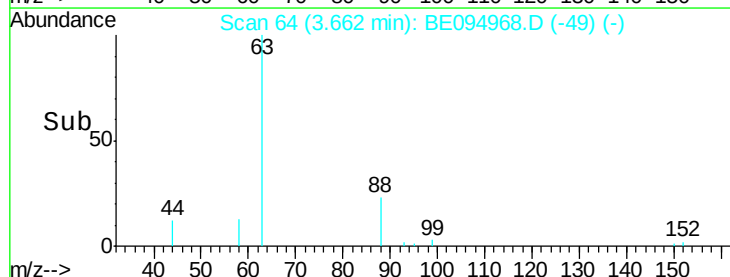
43 171.1 41.2 61.8#

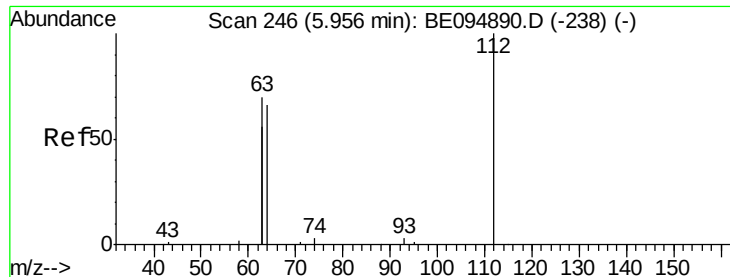


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.164 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

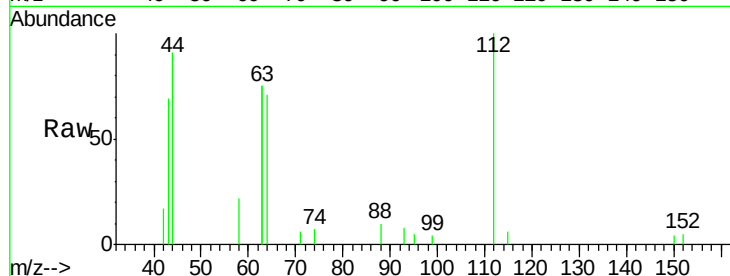
Tot Ion:112 Resp: 1930

Ion Ratio Lower Upper

112 100

64 74.9 60.1 90.1

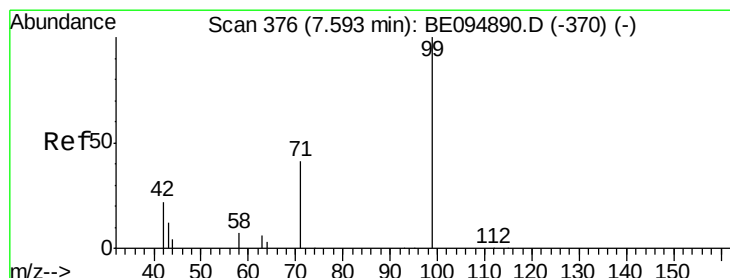
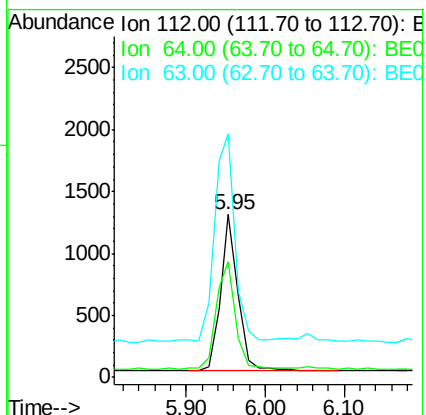
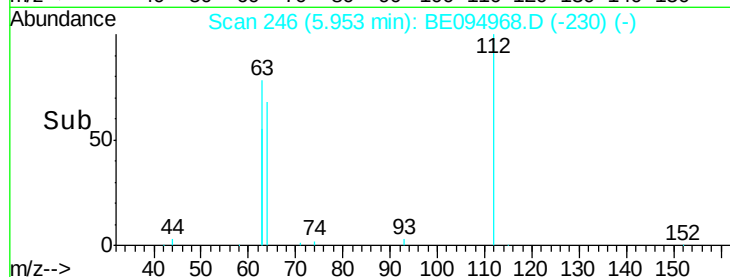
63 157.3 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.114 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

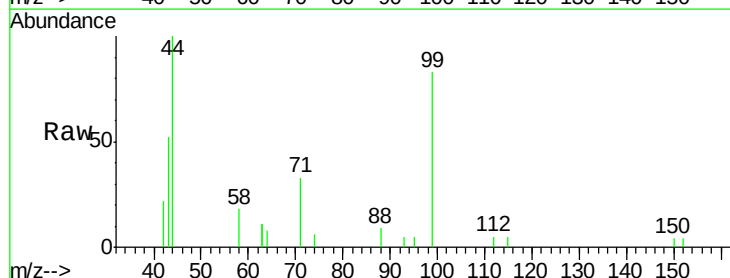
Tgt Ion: 99 Resp: 1978

Ion Ratio Lower Upper

99 100

42 27.0 20.2 30.2

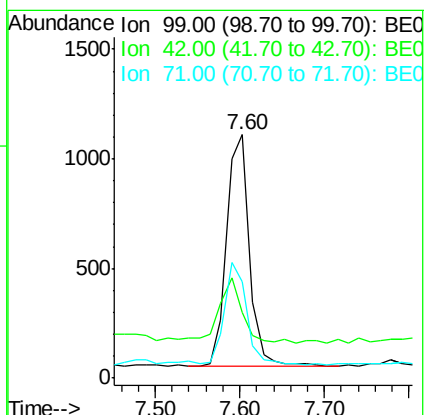
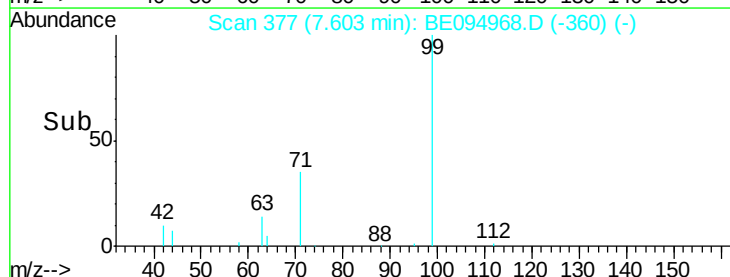
71 44.7 28.4 42.6#

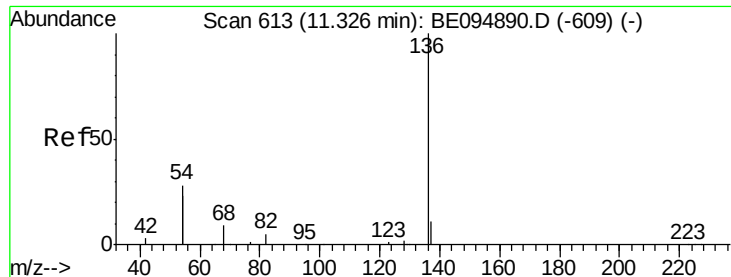


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

Tot Ion:136 Resp: 16491

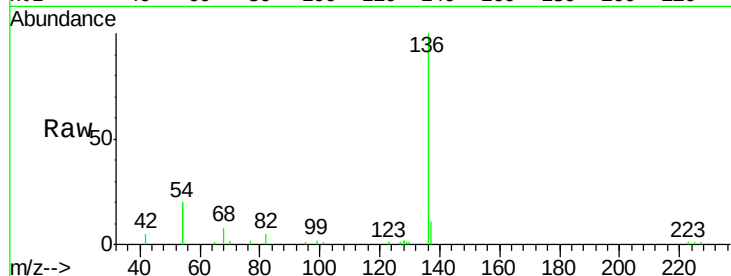
Ion Ratio Lower Upper

136 100

137 11.2 9.5 14.3

54 40.2 29.1 43.7

68 8.5 6.2 9.2

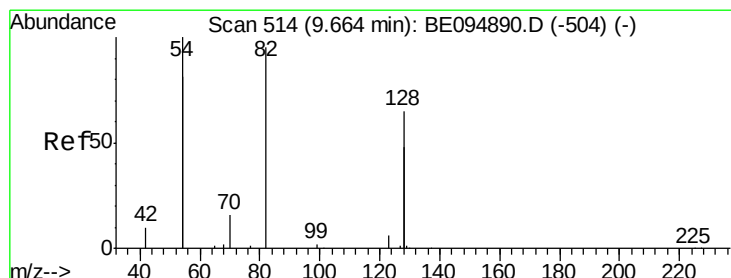
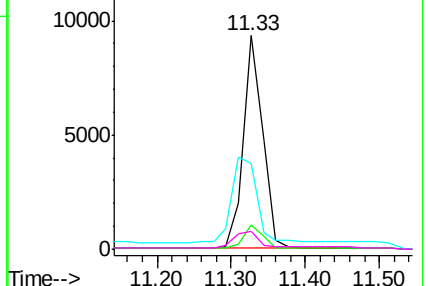
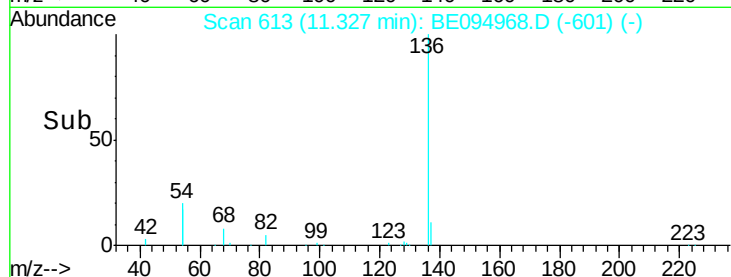


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 0.543 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

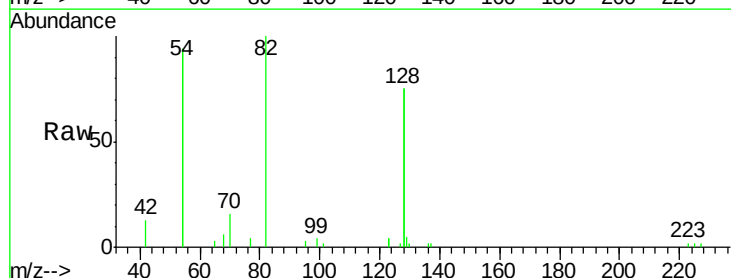
Tgt Ion: 82 Resp: 5304

Ion Ratio Lower Upper

82 100

128 149.2 150.0 225.0#

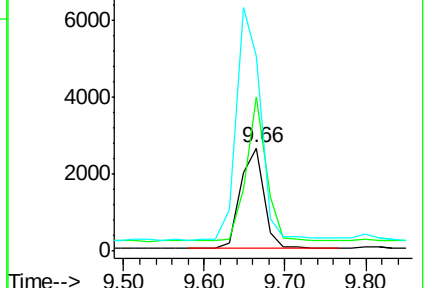
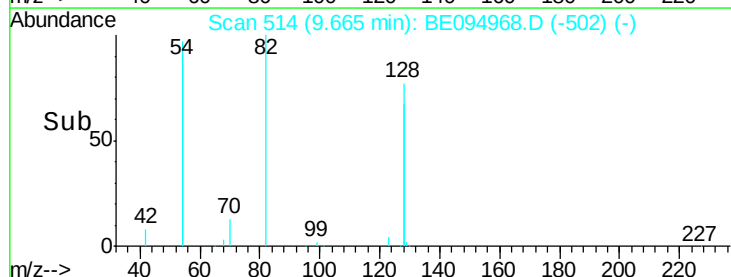
54 188.3 154.2 231.4

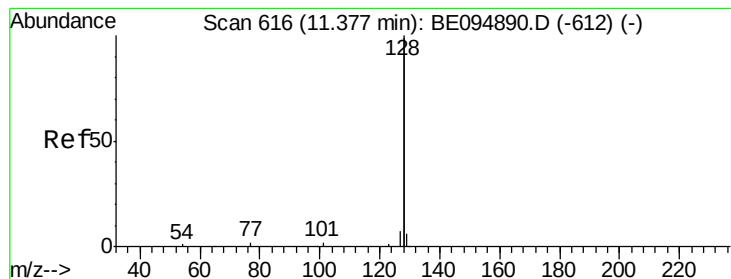


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.051 ng

RT: 11.38 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

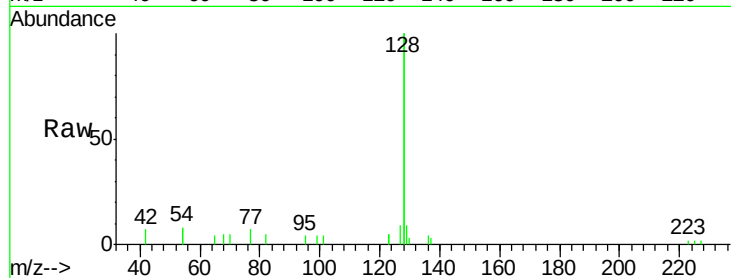
Tot Ion:128 Resp: 9800

Ion Ratio Lower Upper

128 100

129 4.4 2.6 3.8#

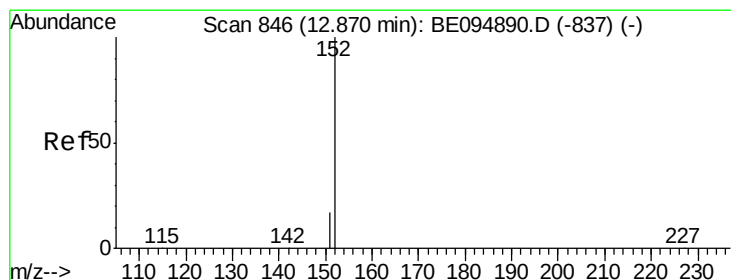
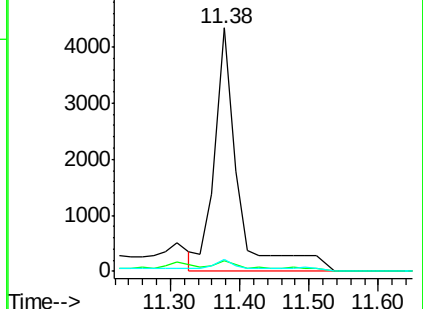
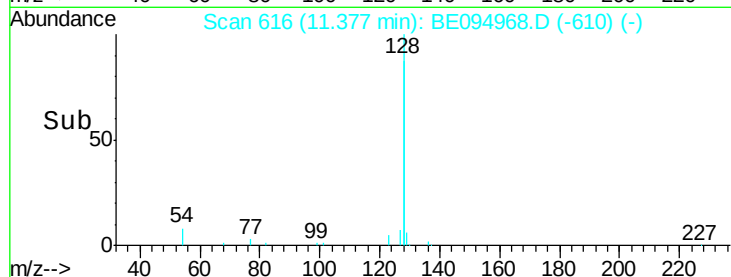
127 4.7 2.8 4.2#



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



#11

2-Methylnaphthalene-d10

Concen: 0.344 ng

RT: 12.86 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE094968.D

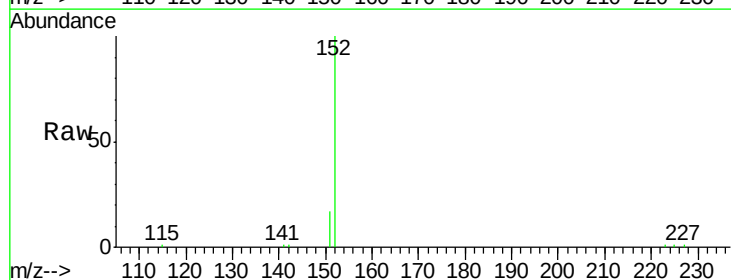
Acq: 9 Dec 2017 2:48

Tgt Ion:152 Resp: 9053

Ion Ratio Lower Upper

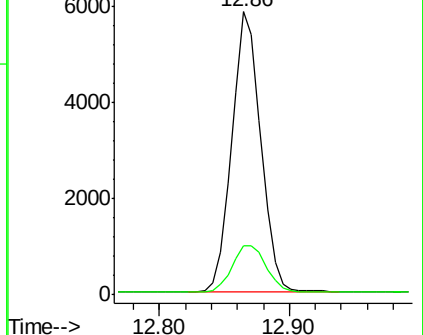
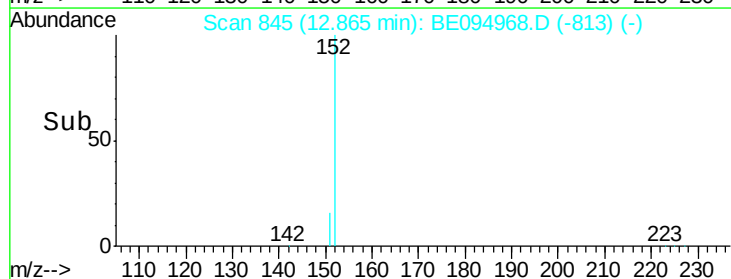
152 100

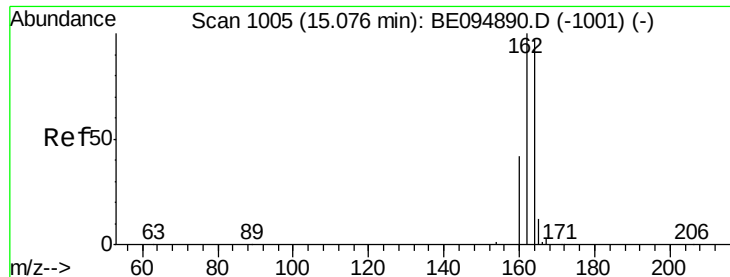
151 19.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.08 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

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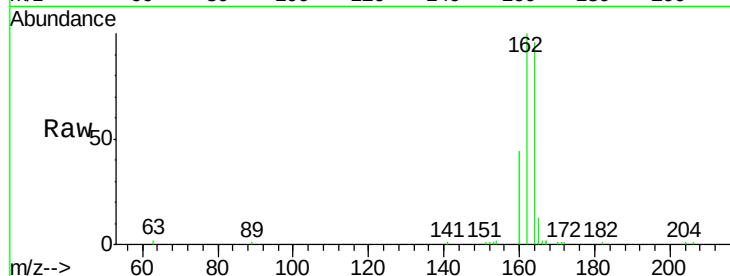
Tot Ion:164 Resp: 9577

Ion Ratio Lower Upper

164 100

162 104.3 83.1 124.7

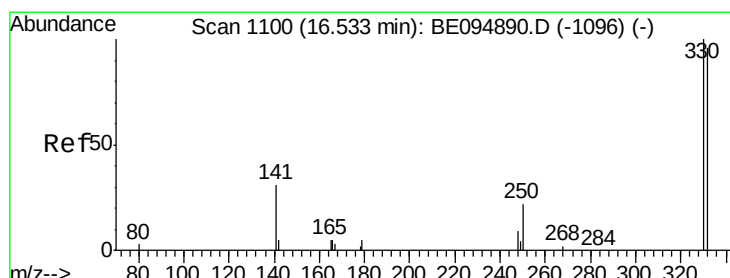
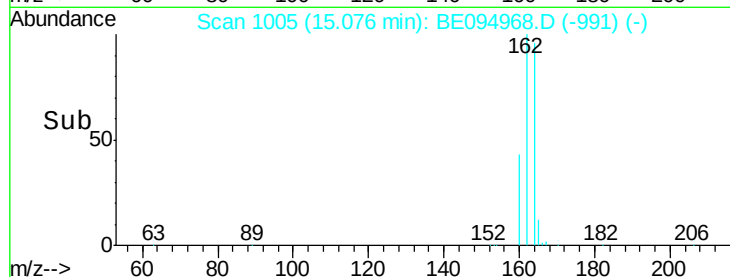
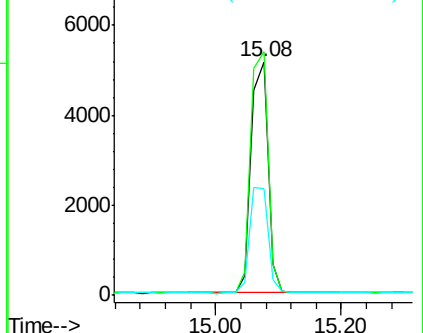
160 45.4 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.457 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

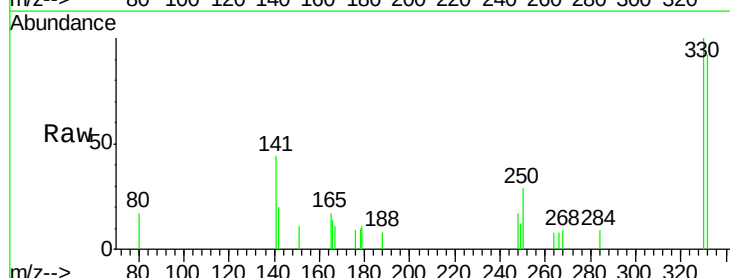
Tgt Ion:330 Resp: 914

Ion Ratio Lower Upper

330 100

332 95.2 152.7 229.1#

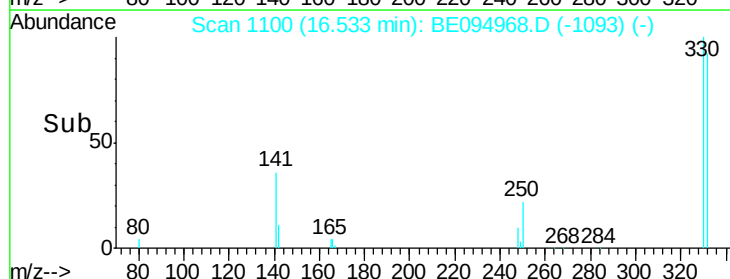
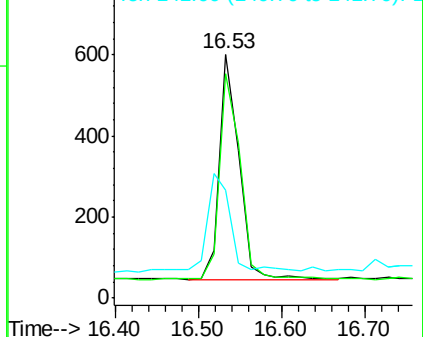
141 50.2 33.7 50.5

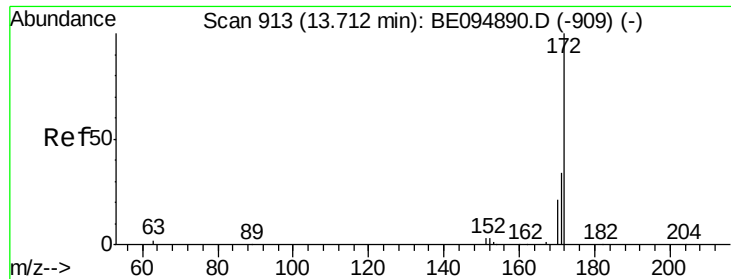


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

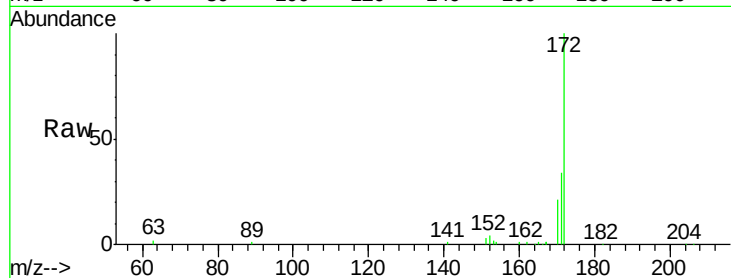




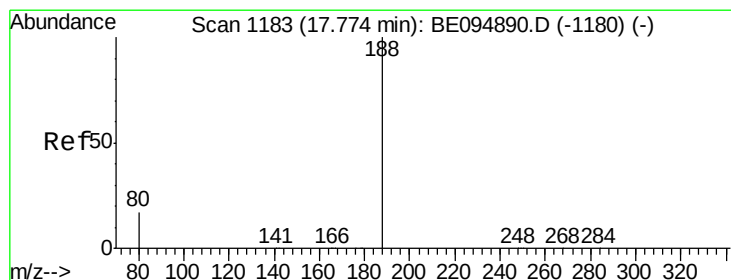
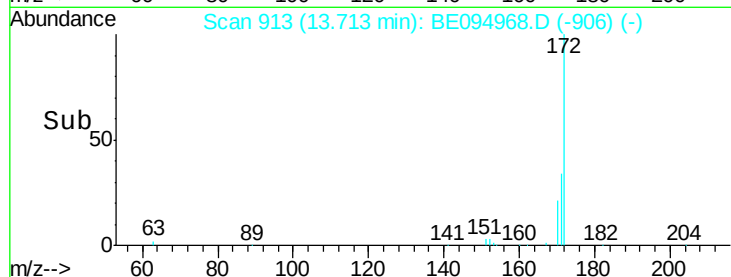
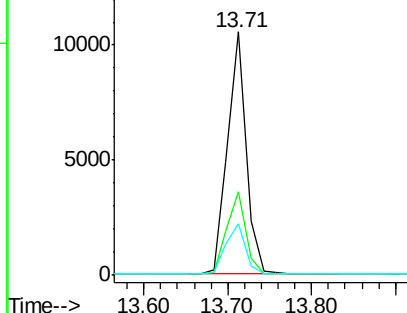
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	34.2	29.9	44.9
170	21.4	21.8	32.8

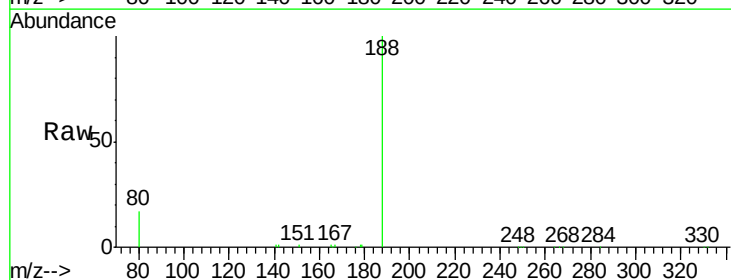


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

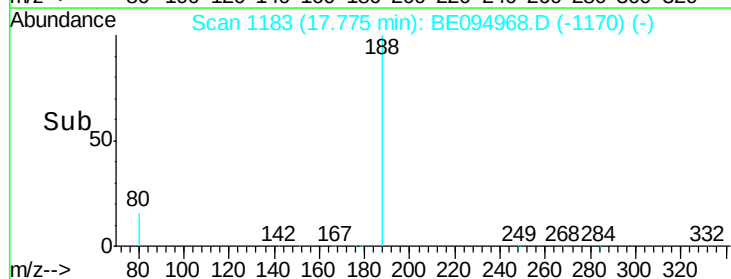
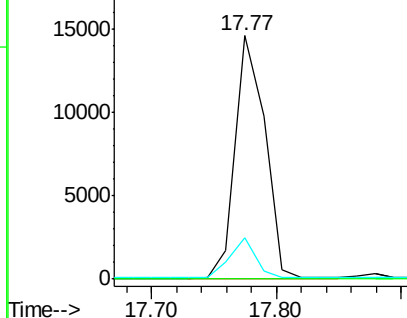


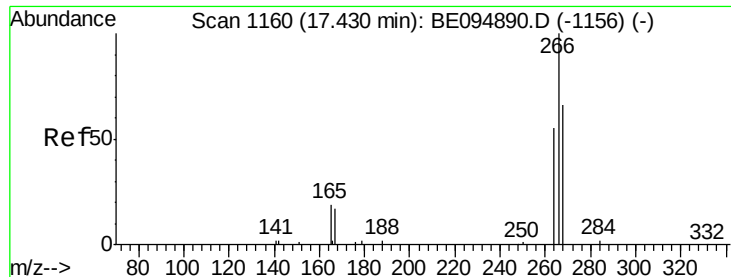
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.77 min Scan# 1183
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9
80	16.9	3.6	5.4



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

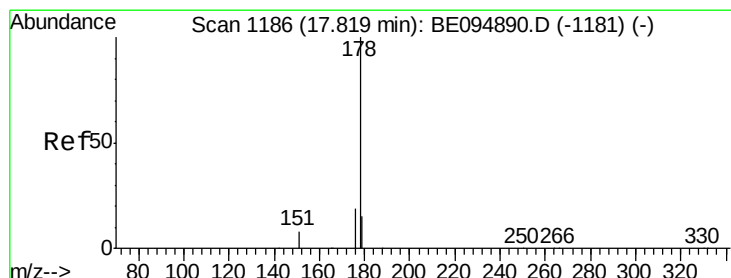
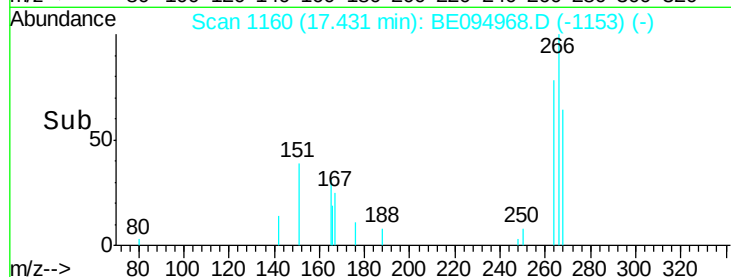
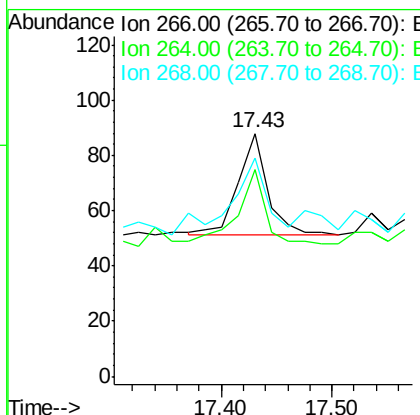
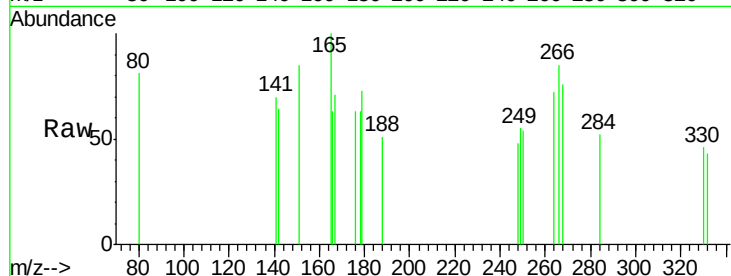




#22
 Pentachlorophenol
 Concen: 0.149 ng
 RT: 17.43 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: BE094968.D
 Acq: 9 Dec 2017 2:48

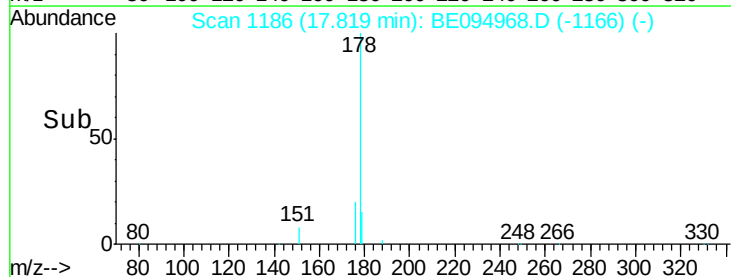
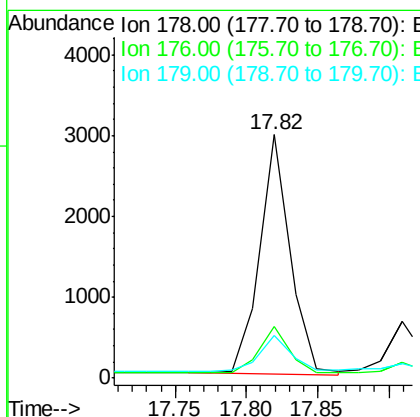
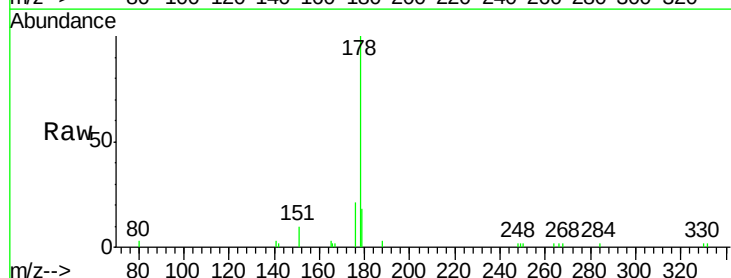
Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-171205

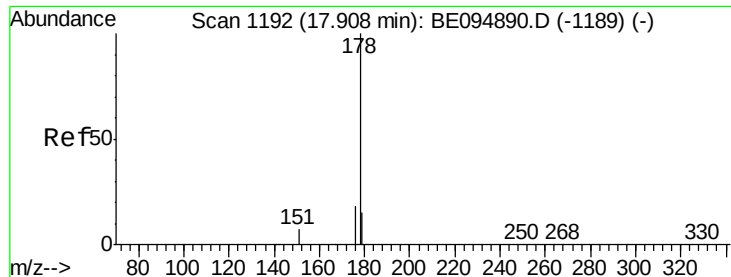
Tot Ion:266 Resp: 69
 Ion Ratio Lower Upper
 266 100
 264 85.2 72.5 108.7
 268 89.8 73.8 110.6



#23
 Phenanthrene
 Concen: 0.058 ng
 RT: 17.82 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BE094968.D
 Acq: 9 Dec 2017 2:48

Tgt Ion:178 Resp: 4381
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 18.2 11.8 17.6#





#24

Anthracene

Concen: 0.054 ng

RT: 17.82 min Scan# 1186

Delta R.T. -0.09 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

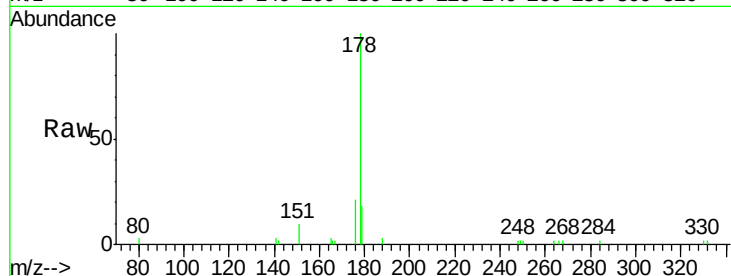
Tot Ion:178 Resp: 4381

Ion Ratio Lower Upper

178 100

176 18.4 12.8 19.2

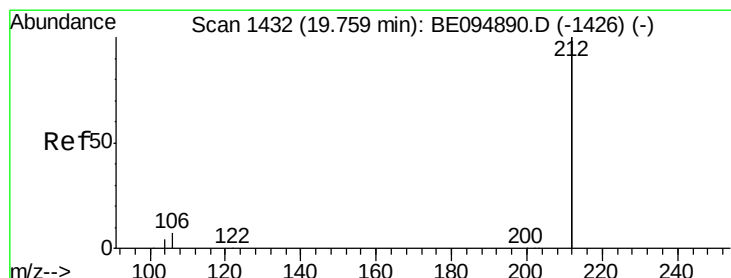
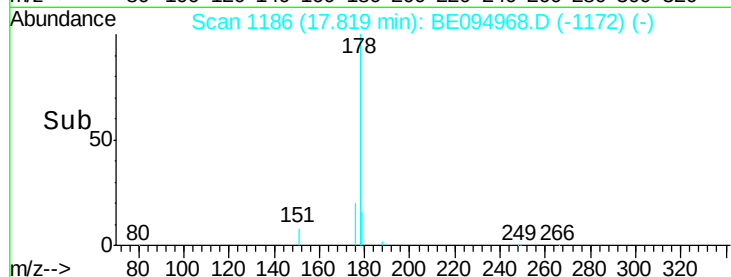
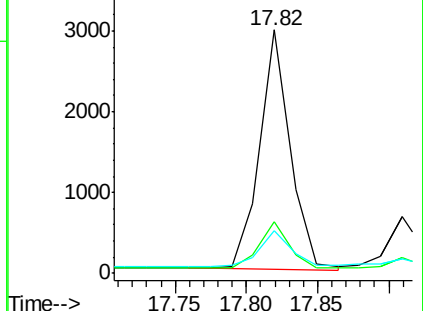
179 18.2 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.330 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

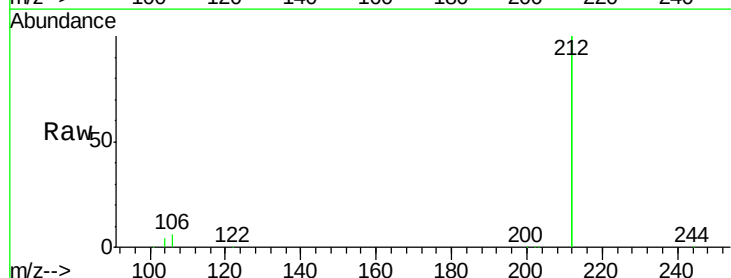
Tgt Ion:212 Resp: 107711

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

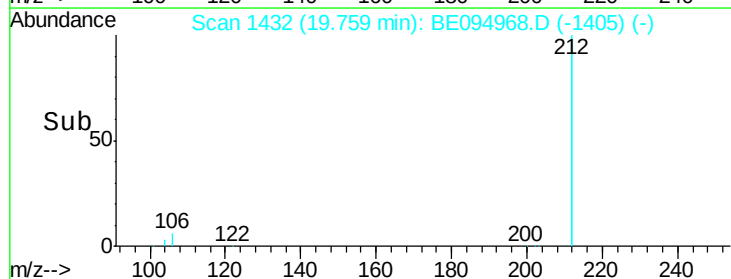
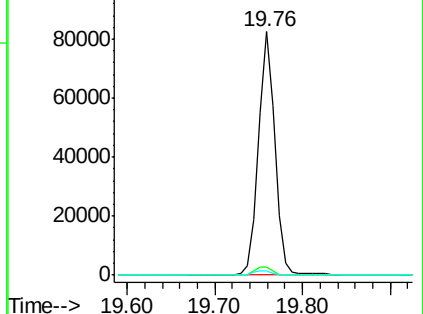
104 2.0 1.6 2.4

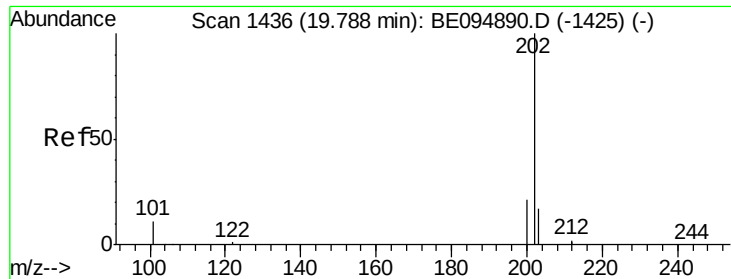


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

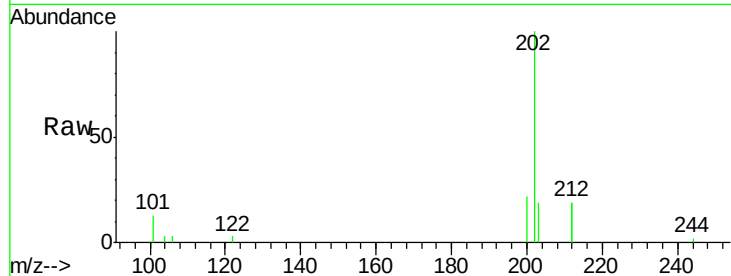




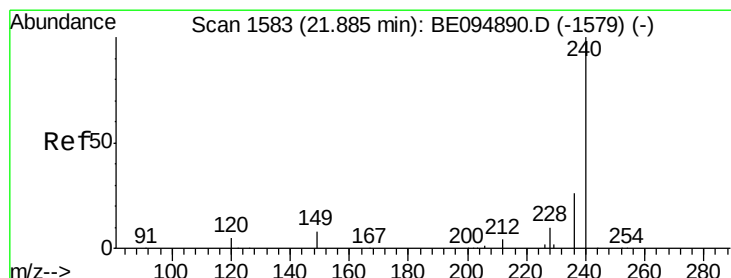
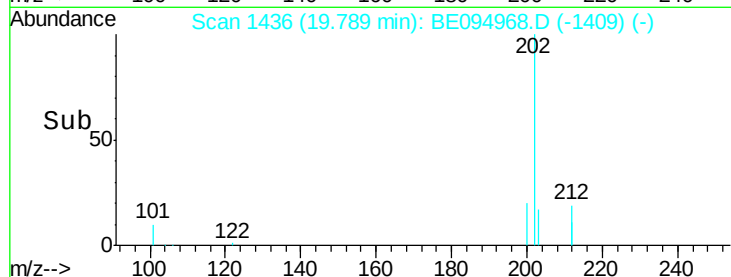
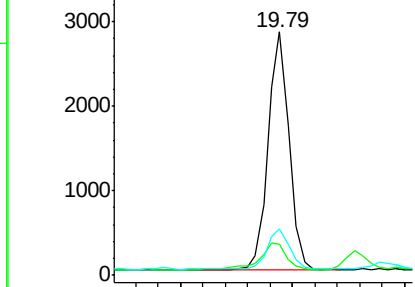
#26
Fluoranthene
Concen: 0.038 ng
RT: 19.79 min Scan# 1436
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Instrument :
BNA_E
ClientSampleId :
OUTFALL001-171205

Tot Ion:202 Resp: 3724
Ion Ratio Lower Upper
202 100
101 14.5 9.8 14.8
203 17.9 13.7 20.5

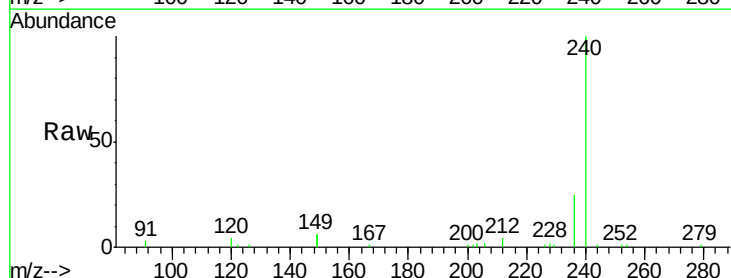


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

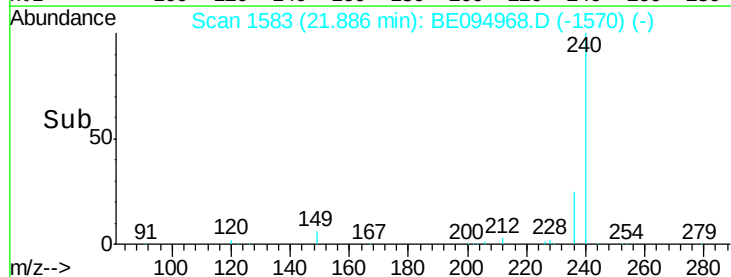
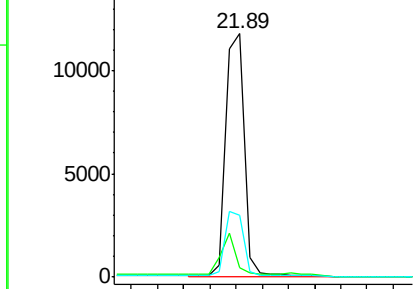


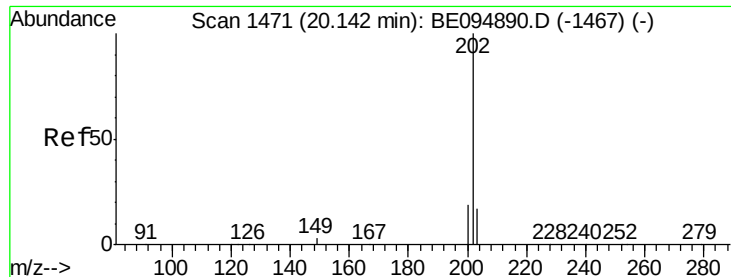
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.89 min Scan# 1583
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Tgt Ion:240 Resp: 24570
Ion Ratio Lower Upper
240 100
120 3.7 5.5 8.3#
236 25.3 20.7 31.1



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

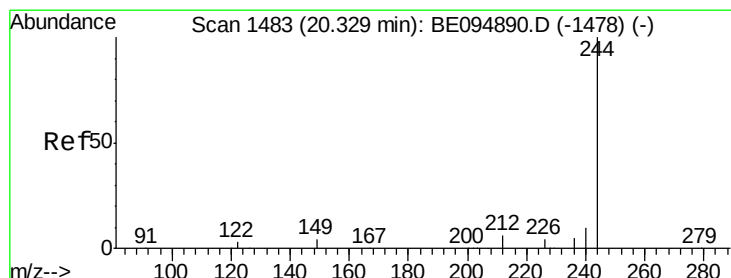
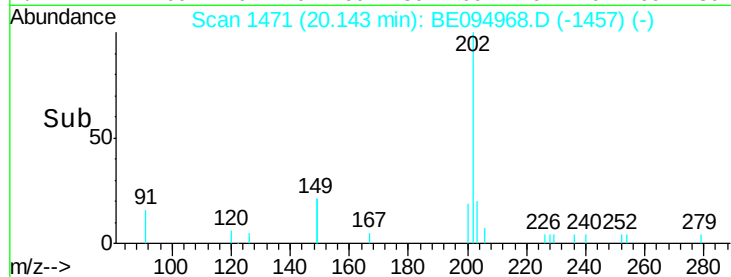
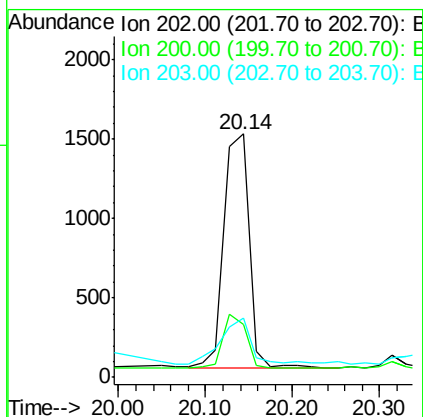
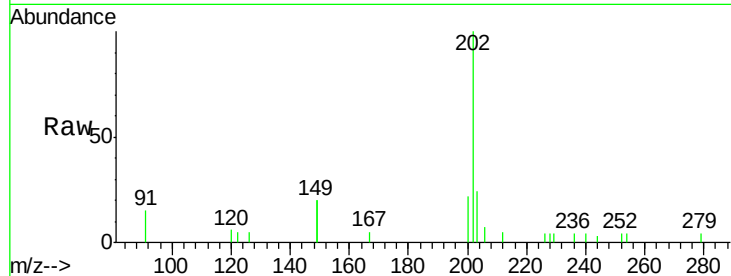




#28
Pvrene
Concen: 0.035 ng
RT: 20.14 min Scan# 1471
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

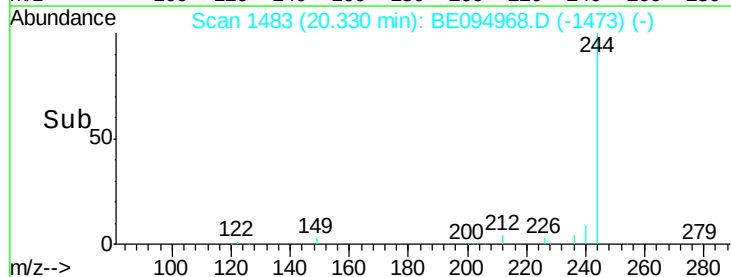
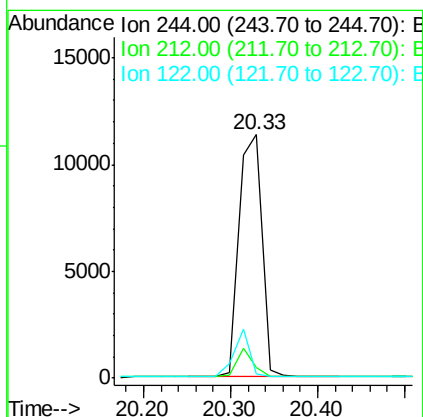
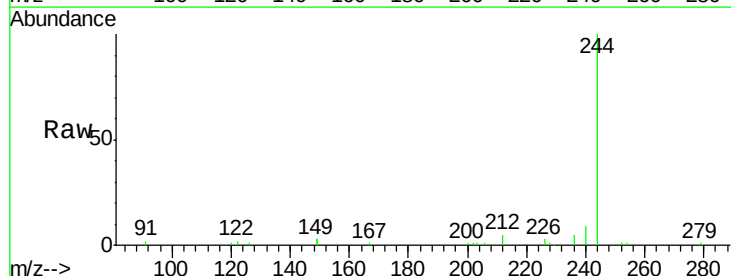
Instrument :
BNA_E
ClientSampleId :
OUTFALL001-171205

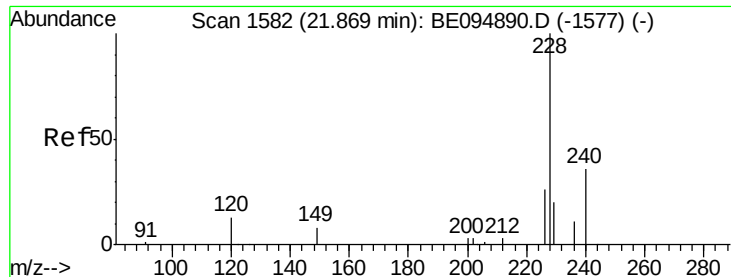
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.6	25.0
203	22.8	13.8	20.8



#29
Terphenyl-d14
Concen: 0.461 ng
RT: 20.33 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	4.6	25.4	38.0
122	1.9	8.1	12.1





#30

Benzo(a)anthracene

Concen: 0.046 ng

RT: 21.85 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

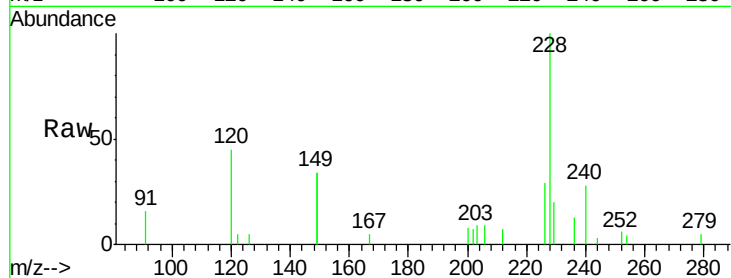
Tot Ion:228 Resp: 3450

Ion Ratio Lower Upper

228 100

226 29.1 40.0 60.0#

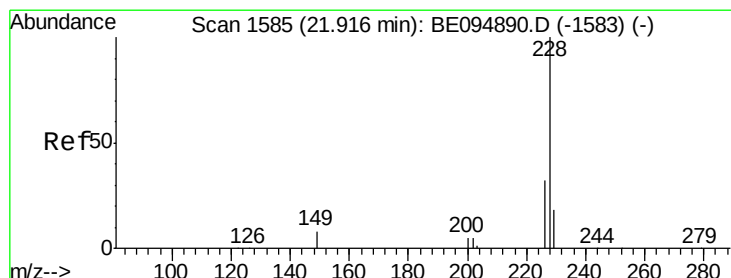
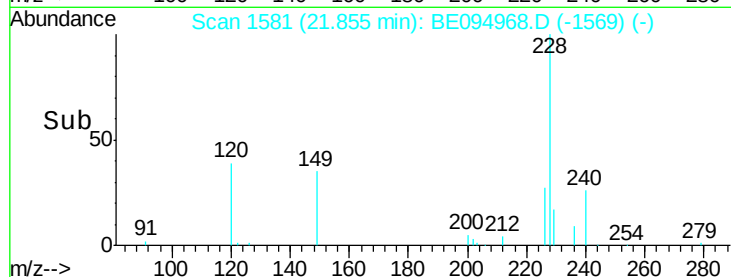
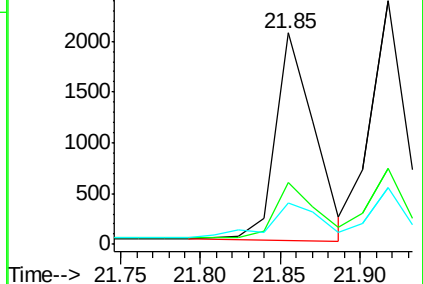
229 19.9 40.0 60.0#



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



#31

Chrysene

Concen: 0.050 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

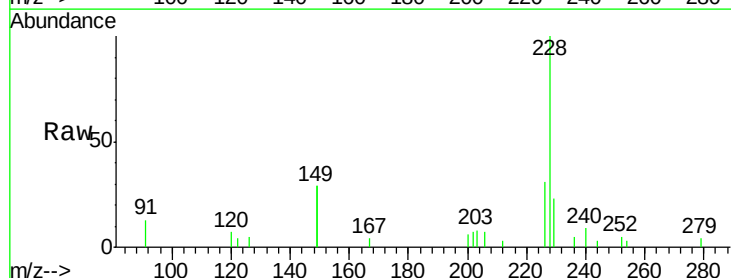
Tgt Ion:228 Resp: 4204

Ion Ratio Lower Upper

228 100

226 31.1 40.0 60.0#

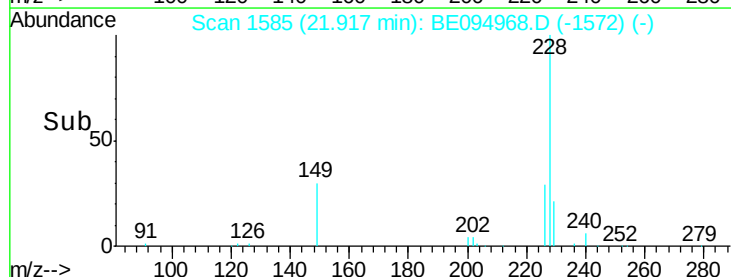
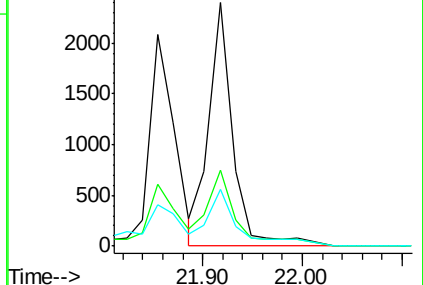
229 23.3 40.0 60.0#

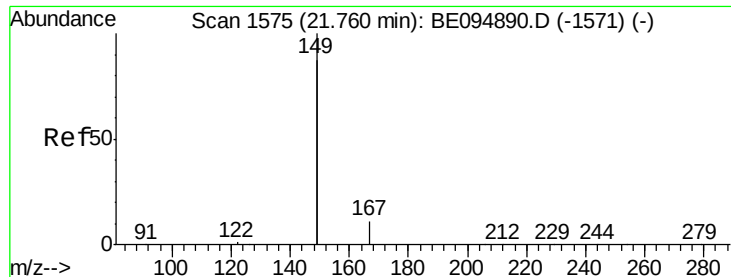


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

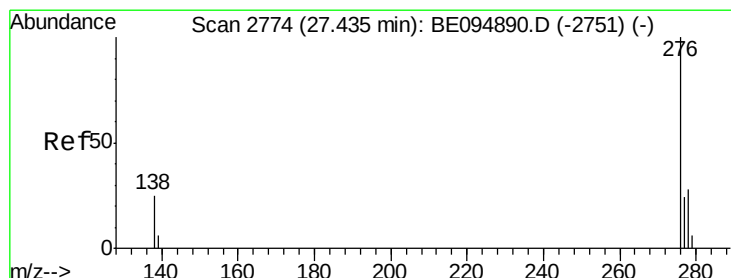
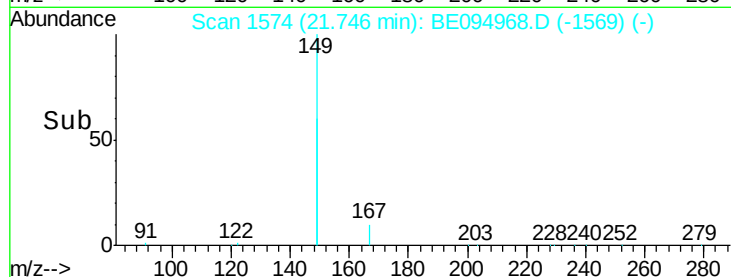
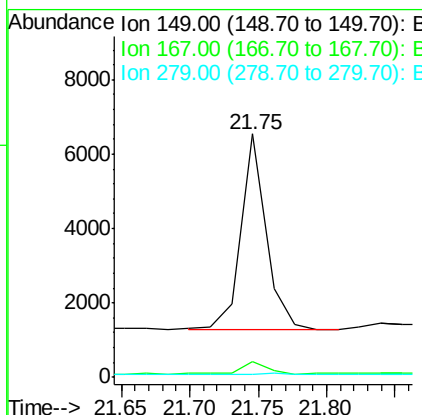
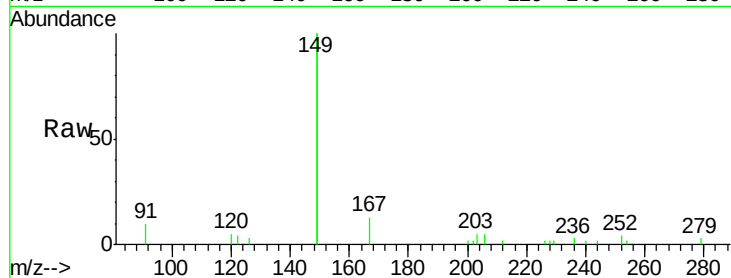




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.054 ng
 RT: 21.75 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BE094968.D
 Acq: 9 Dec 2017 2:48

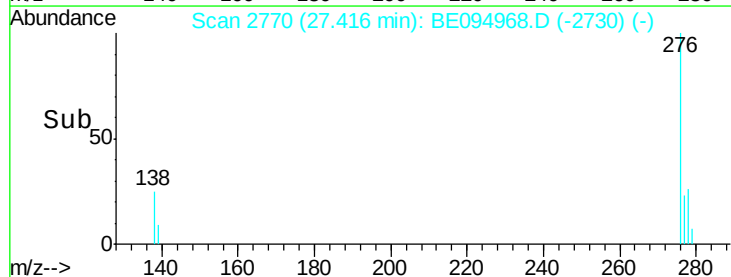
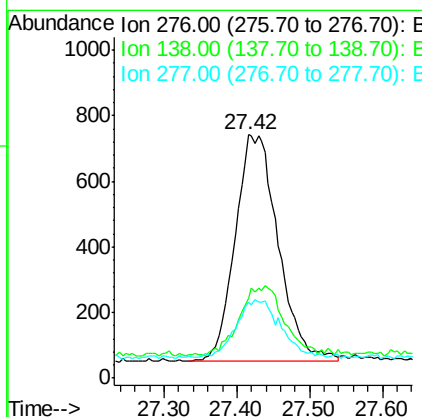
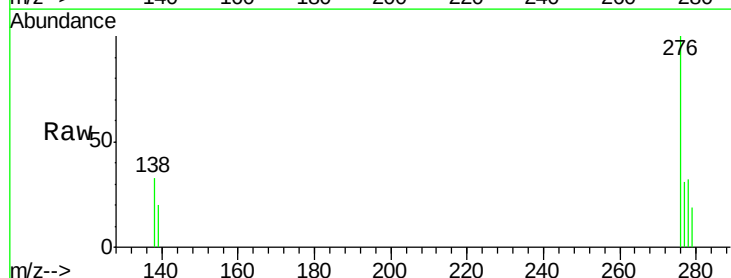
Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-171205

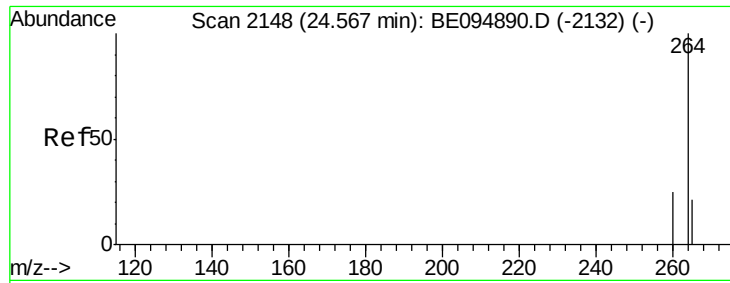
Tot Ion:149 Resp: 6738
 Ion Ratio Lower Upper
 149 100
 167 6.0 5.4 8.0
 279 1.0 0.7 1.1



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.042 ng
 RT: 27.42 min Scan# 2770
 Delta R.T. -0.02 min
 Lab File: BE094968.D
 Acq: 9 Dec 2017 2:48

Tgt Ion:276 Resp: 2829
 Ion Ratio Lower Upper
 276 100
 138 0.0 22.5 33.7#
 277 26.7 19.9 29.9

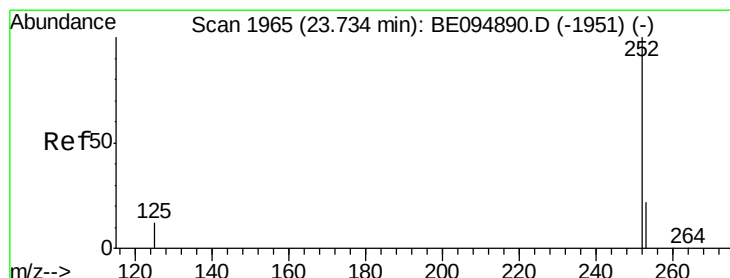
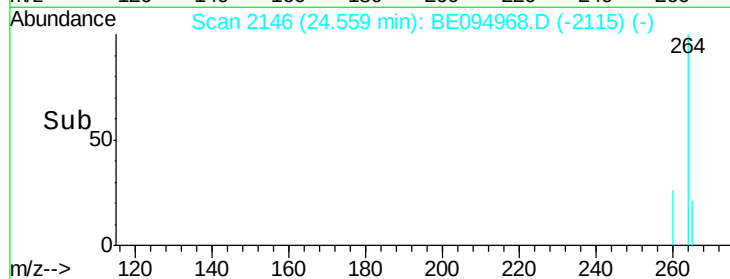
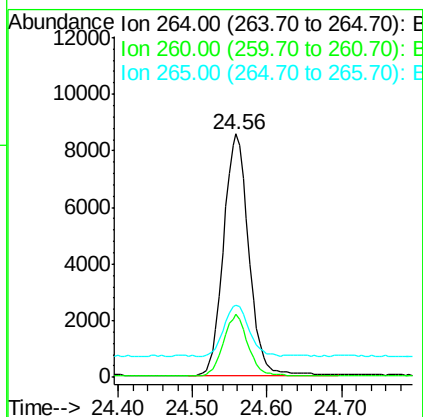
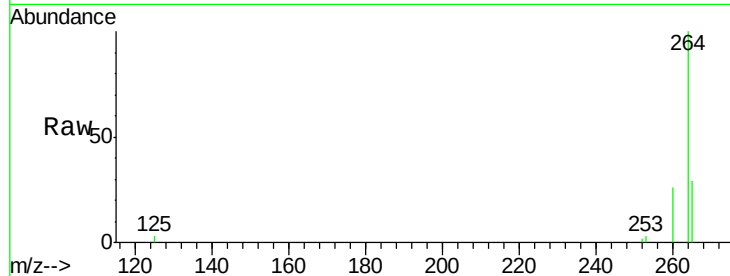




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.56 min Scan# 2146
Delta R.T. -0.01 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

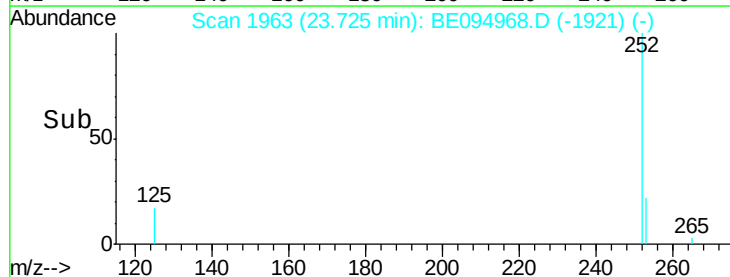
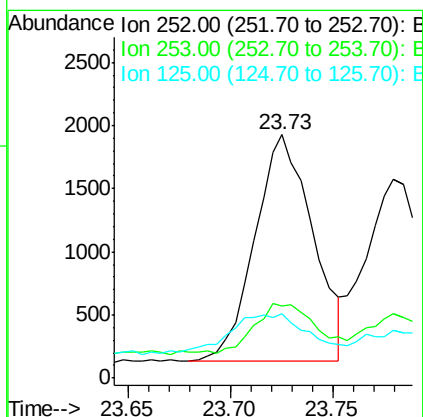
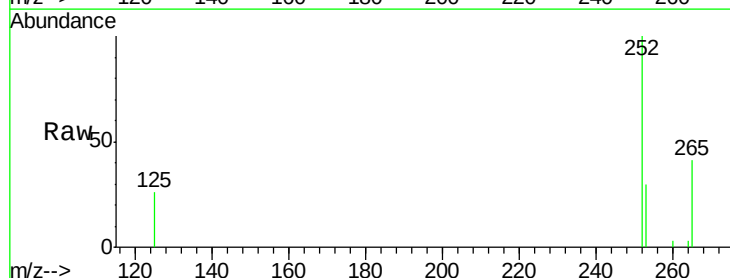
Instrument :
BNA_E
ClientSampleId :
OUTFALL001-171205

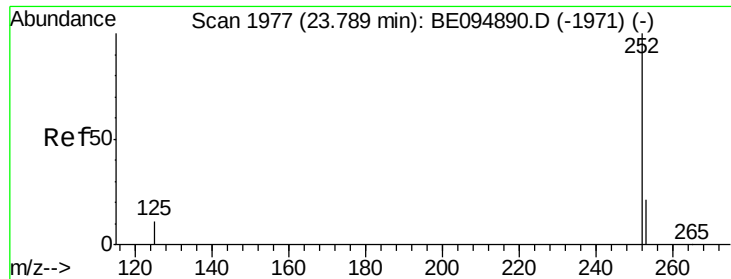
Tot Ion:264 Resp: 20034
Ion Ratio Lower Upper
264 100
260 25.9 20.5 30.7
265 29.4 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.048 ng
RT: 23.73 min Scan# 1963
Delta R.T. -0.01 min
Lab File: BE094968.D
Acq: 9 Dec 2017 2:48

Tgt Ion:252 Resp: 3526
Ion Ratio Lower Upper
252 100
253 29.7 48.0 72.0#
125 26.3 56.0 84.0#





#36

Benzo(k)fluoranthene

Concen: 0.039 ng

RT: 23.78 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

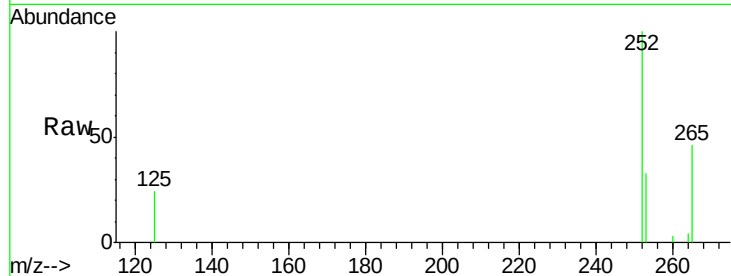
Tot Ion:252 Resp: 2927

Ion Ratio Lower Upper

252 100

253 32.8 48.0 72.0#

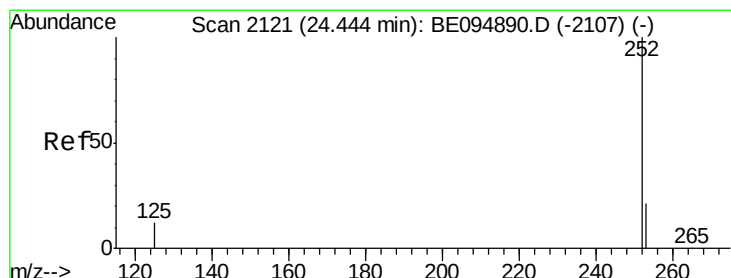
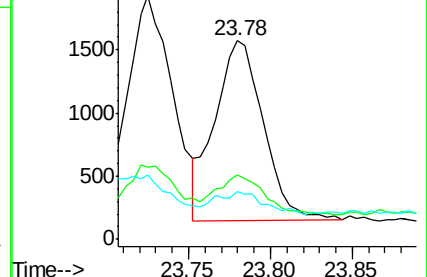
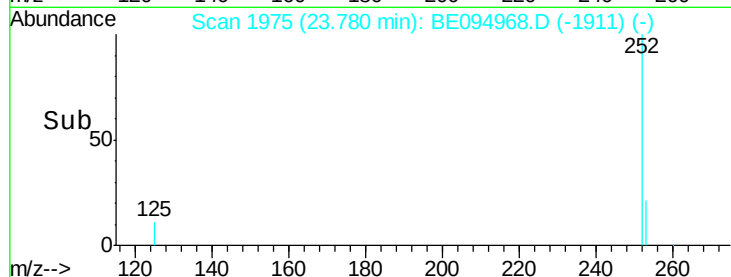
125 24.0 56.0 84.0#



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



#37

Benzo(a)pyrene

Concen: 0.043 ng

RT: 24.44 min Scan# 2119

Delta R.T. -0.01 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

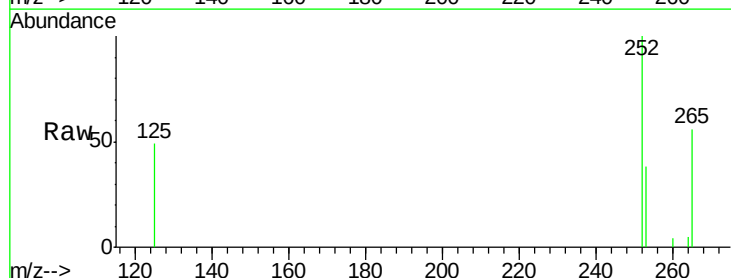
Tgt Ion:252 Resp: 2731

Ion Ratio Lower Upper

252 100

253 38.3 52.0 78.0#

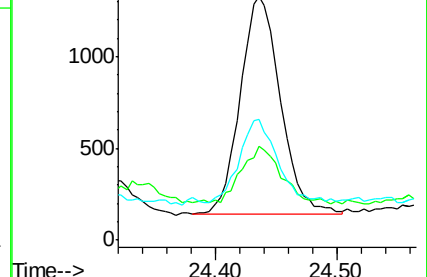
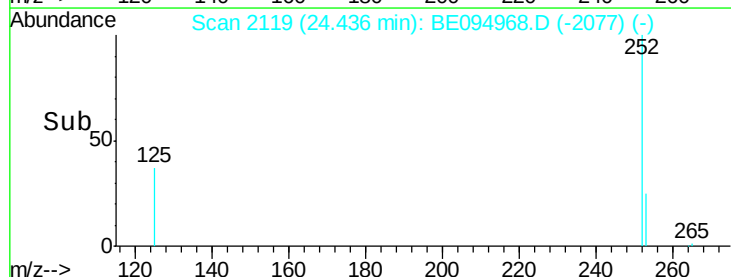
125 49.5 68.0 102.0#

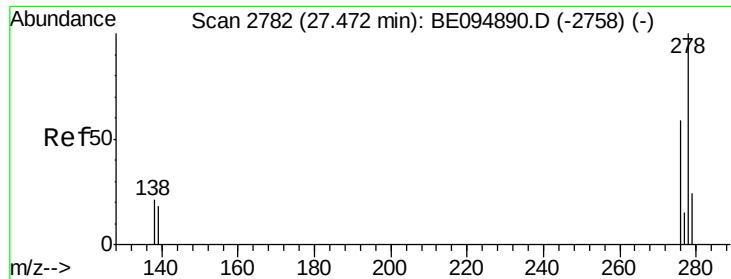


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.038 ng

RT: 27.45 min Scan# 2778

Delta R.T. -0.02 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-171205

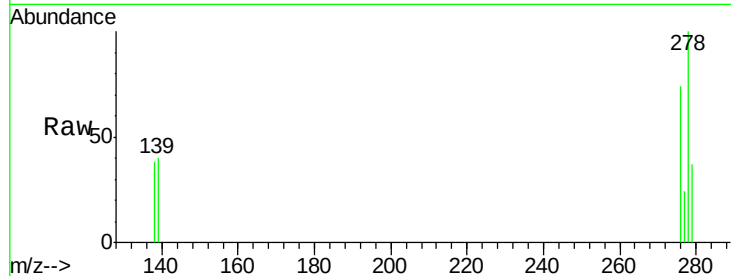
Tot Ion:278 Resp: 2238

Ion Ratio Lower Upper

278 100

139 40.5 56.0 84.0#

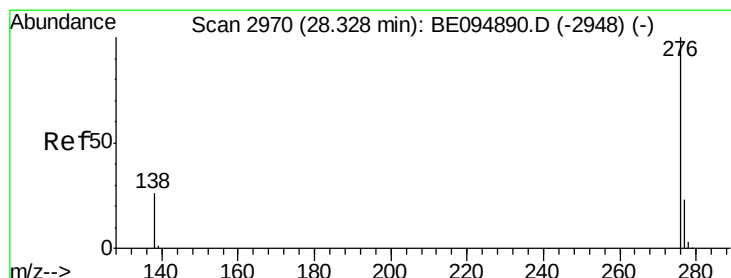
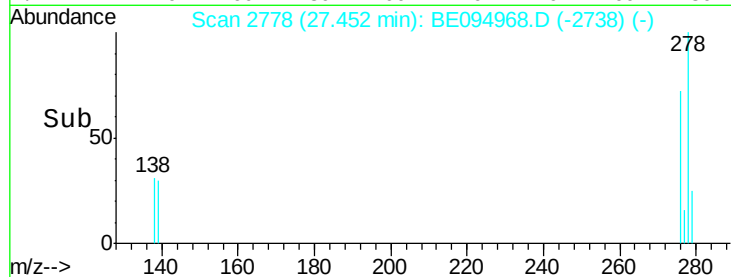
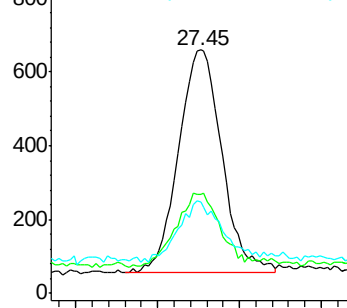
279 37.3 52.0 78.0#



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



#39

Benzo(g,h,i)perylene

Concen: 0.042 ng

RT: 28.31 min Scan# 2966

Delta R.T. -0.02 min

Lab File: BE094968.D

Acq: 9 Dec 2017 2:48

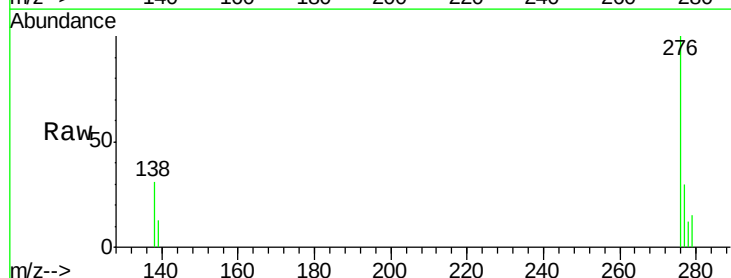
Tgt Ion:276 Resp: 2465

Ion Ratio Lower Upper

276 100

277 29.9 52.0 78.0#

138 31.3 44.0 66.0#



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

