

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091379.D
 Acq On : 2 Feb 2016 16:05
 Operator : UM/IZ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 02 17:32:38 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 02 17:28:11 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	44425	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	208219	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	130873	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	335823	5.00	ng	0.00
18) Chrysene-d12	20.21	240	372016	5.00	ng	0.00
24) Perylene-d12	22.10	264	343180	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.95	112	5677	1.20	ng	0.00
3) Phenol-d6	6.58	99	8799	1.16	ng	0.00
5) Nitrobenzene-d5	8.18	82	6652	0.55	ng	0.00
9) 2,4,6-Tribromophenol	14.91	330	2358	0.88	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	24547	0.87	ng	0.00
20) Terphenyl-d14	18.62	244	39961	1.13	ng	0.00

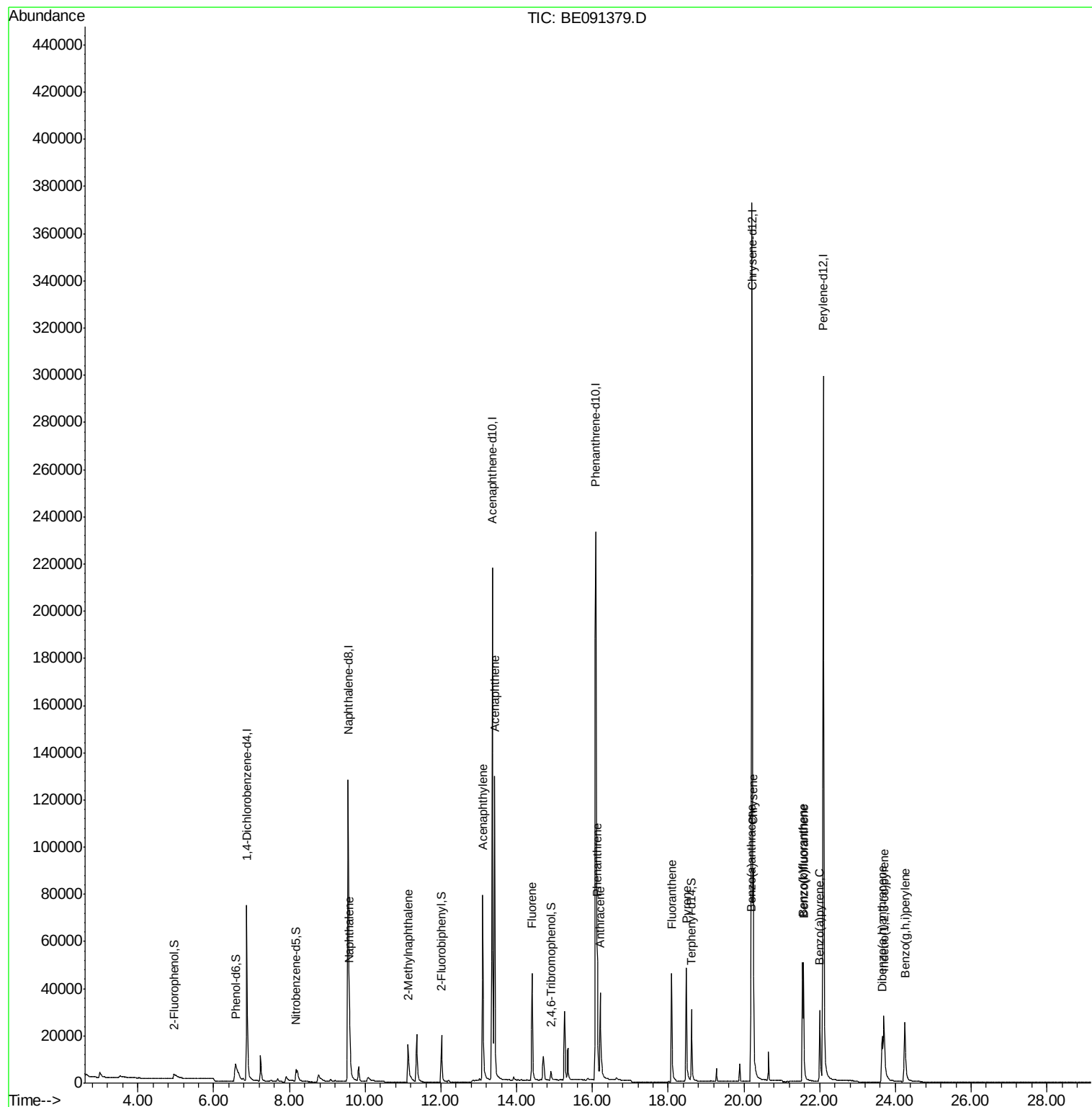
Target Compounds				Qvalue		
6) Naphthalene	9.59	128	34094	0.77	ng	99
7) 2-Methylnaphthalene	11.14	142	17434	1.00	ng	91
11) Acenaphthylene	13.10	152	125099	0.73	ng	100
12) Acenaphthene	13.42	154	25709	0.69	ng	# 71
13) Fluorene	14.40	166	33703	0.82	ng	95
15) Phenanthrene	16.12	178	64838	0.78	ng	99
16) Anthracene	16.21	178	52060	0.89	ng	99
17) Fluoranthene	18.10	202	56647	0.94	ng	99
19) Pyrene	18.48	202	57324	1.01	ng	99
21) Benzo(a)anthracene	20.19	228	45696	0.88	ng	98
22) Chrysene	20.25	228	72765	0.81	ng	100
23) Indeno(1,2,3-cd)pyrene	23.70	276	46810	0.79	ng	95
25) Benzo(b)fluoranthene	21.55	252	50062	0.87	ng	# 96
26) Benzo(k)fluoranthene	21.57	252	59878	0.89	ng	# 97
27) Benzo(a)pyrene	22.00	252	43112	0.73	ng	# 96
28) Dibenzo(a,h)anthracene	23.65	278	37849	0.87	ng	96
29) Benzo(a,h,i)perylene	24.25	276	50692	0.91	ng	# 92

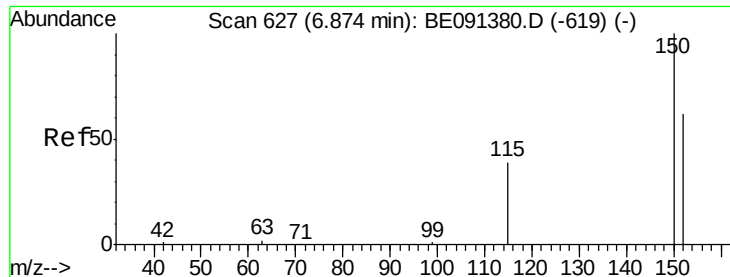
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.88 min Scan# 628

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

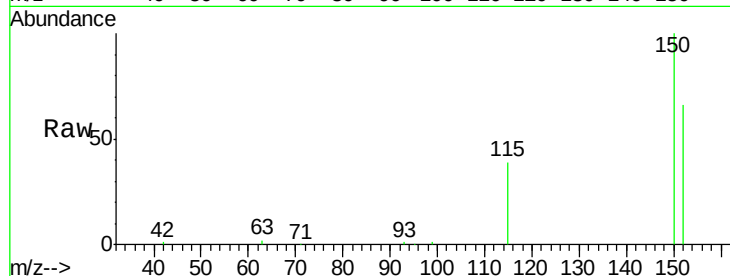
Tot Ion:152 Resp: 44425

Ion Ratio Lower Upper

152 100

150 152.2 121.6 182.4

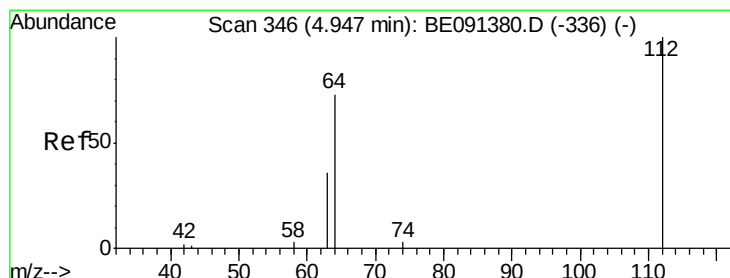
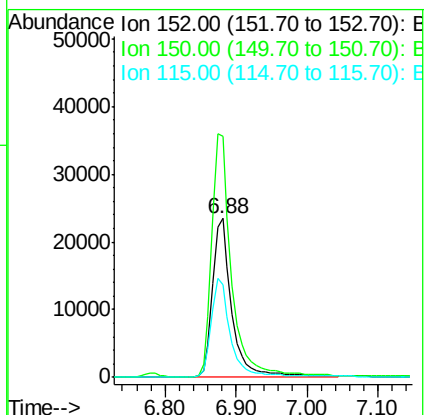
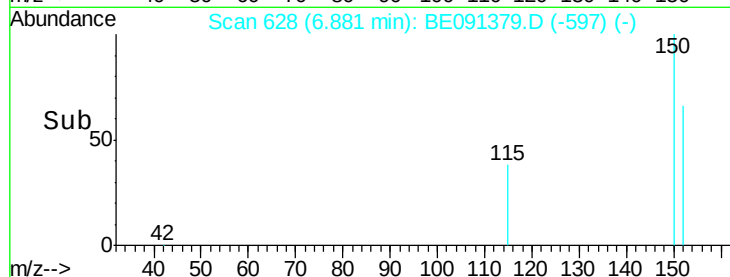
115 58.6 50.6 75.8



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

2-Fluorophenol

Concen: 1.20 ng

RT: 4.95 min Scan# 347

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

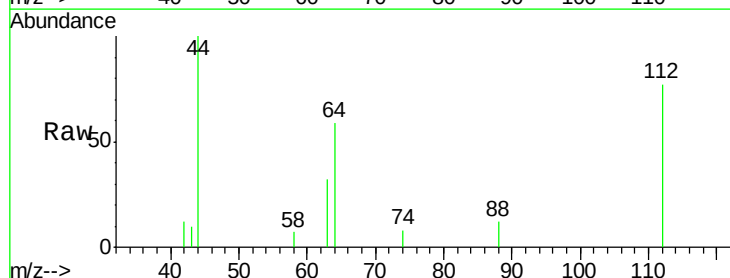
Tgt Ion:112 Resp: 5677

Ion Ratio Lower Upper

112 100

64 70.0 57.4 86.0

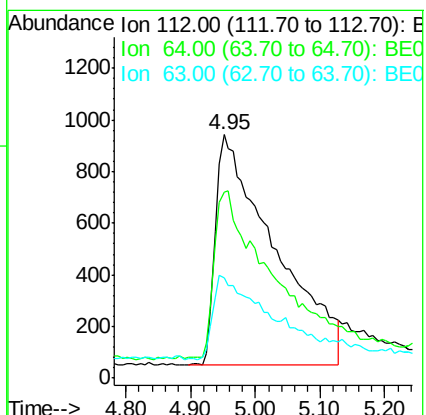
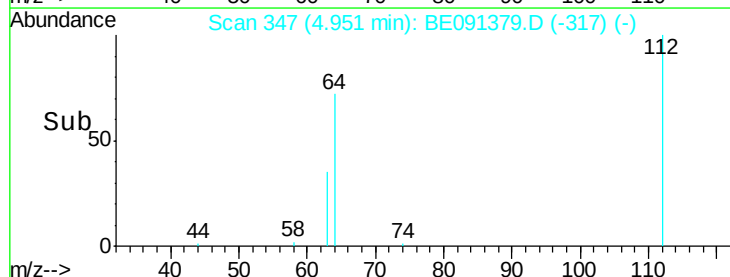
63 35.0 32.2 48.2

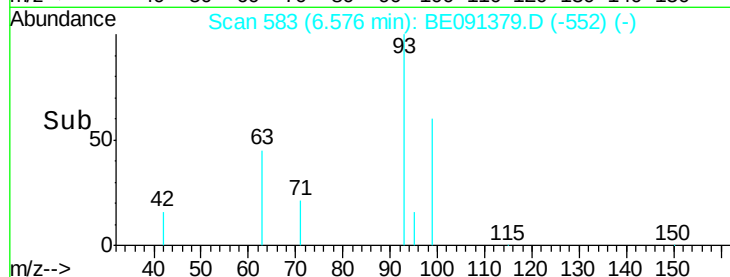
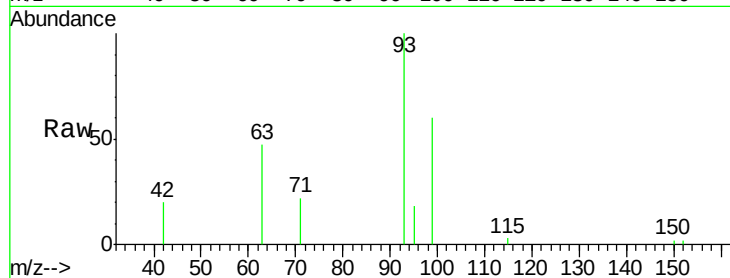
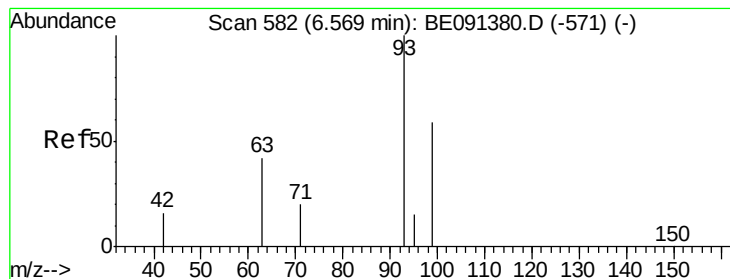


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.16 ng

RT: 6.58 min Scan# 583

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

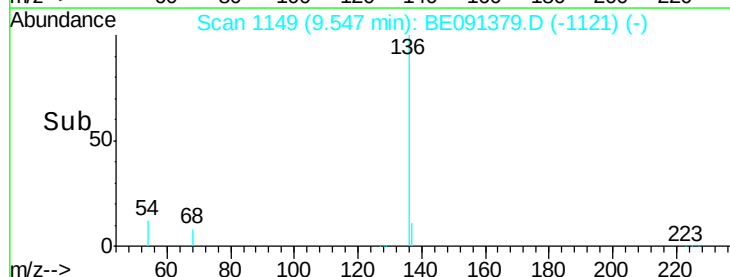
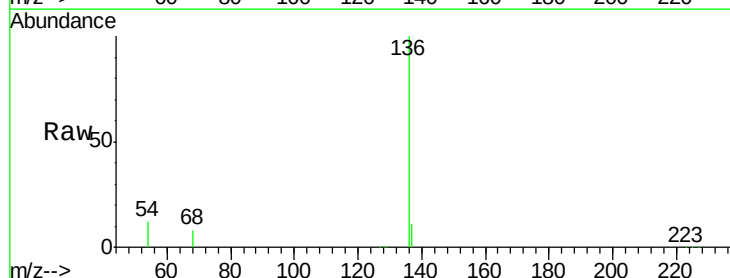
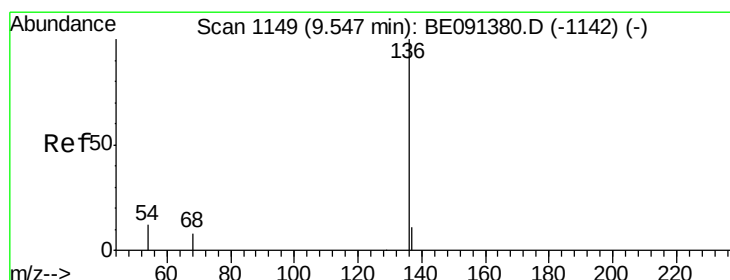
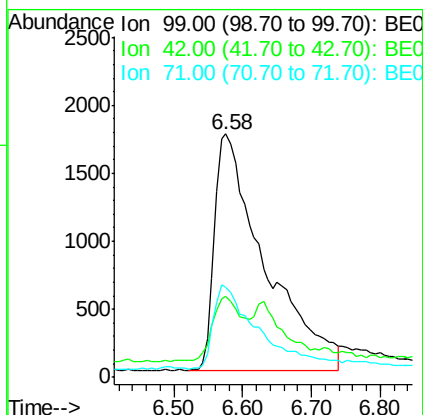
Tot Ion: 99 Resp: 8799

Ion Ratio Lower Upper

99 100

42 17.0 22.9 34.3#

71 32.7 35.4 53.2#



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Tgt Ion: 136 Resp: 208219

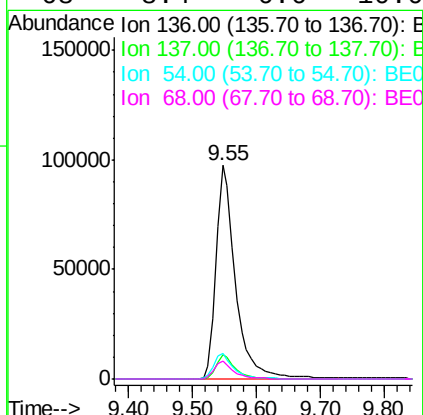
Ion Ratio Lower Upper

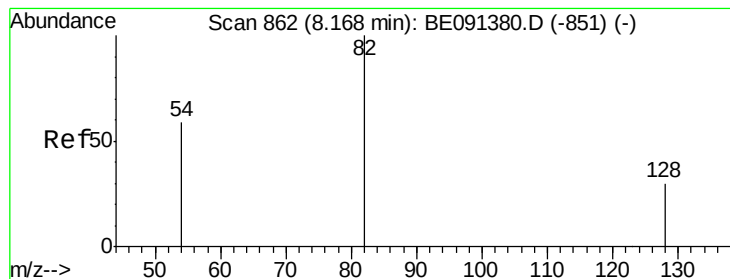
136 100

137 11.2 8.7 13.1

54 12.0 9.8 14.6

68 8.4 6.6 10.0





#5

Nitrobenzene-d5

Concen: 0.55 ng

RT: 8.18 min Scan# 864

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.8

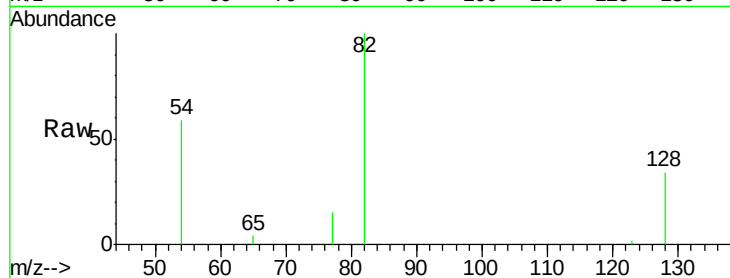
Tot Ion: 82 Resp: 6652

Ion Ratio Lower Upper

82 100

128 33.6 24.6 36.8

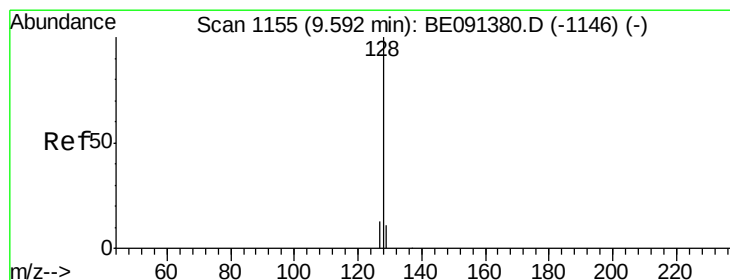
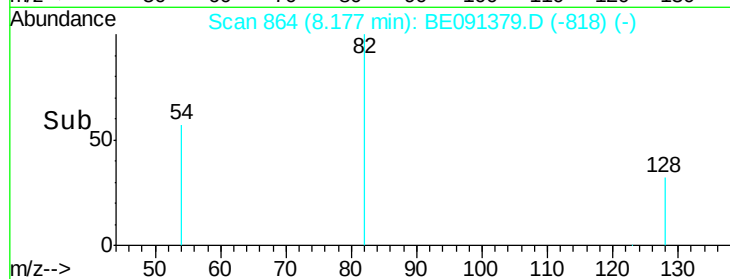
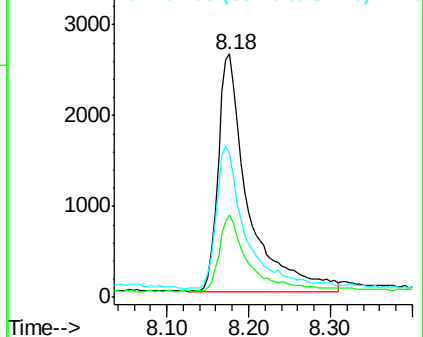
54 59.1 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.77 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

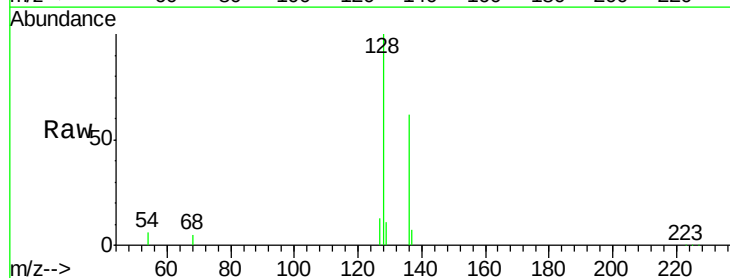
Tgt Ion: 128 Resp: 34094

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

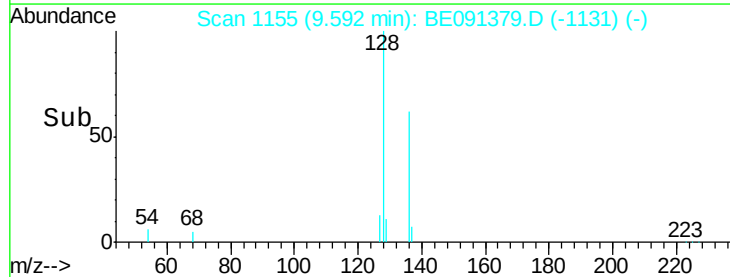
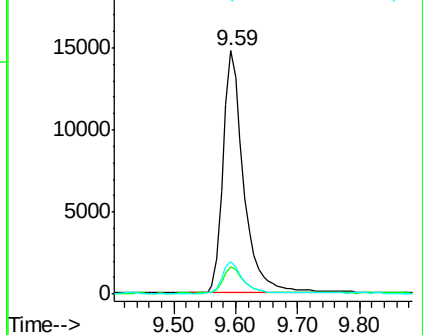
127 13.3 10.6 15.8

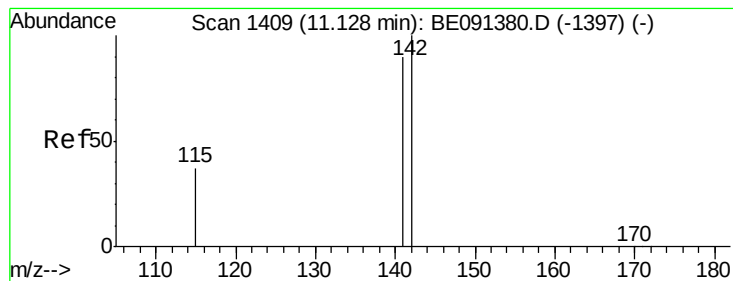


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 1.00 ng

RT: 11.14 min Scan# 1411

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

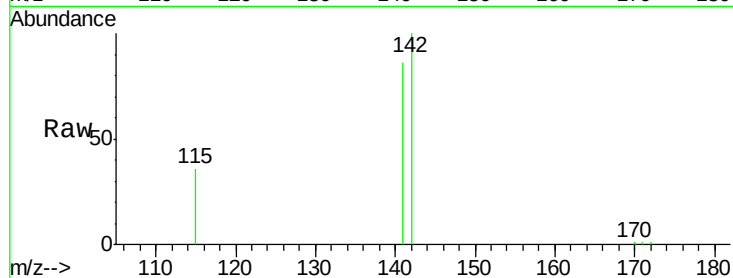
Tot Ion:142 Resp: 17434

Ion Ratio Lower Upper

142 100

141 86.0 74.5 111.7

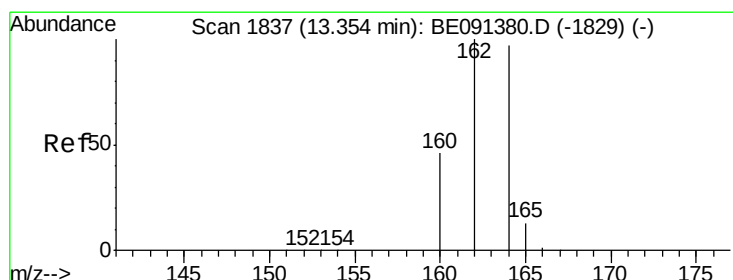
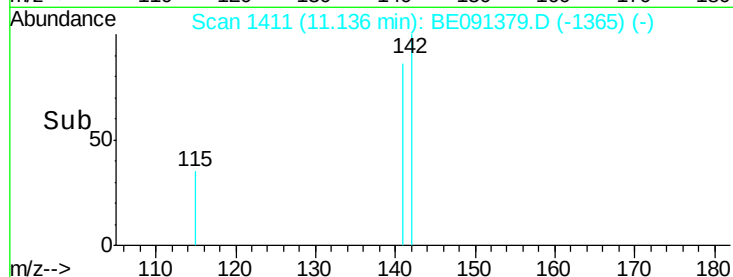
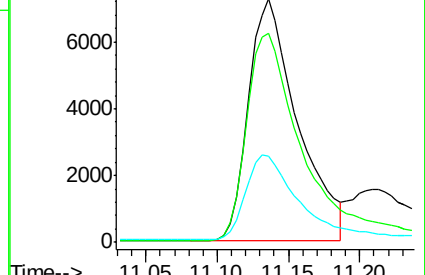
115 35.5 35.2 52.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

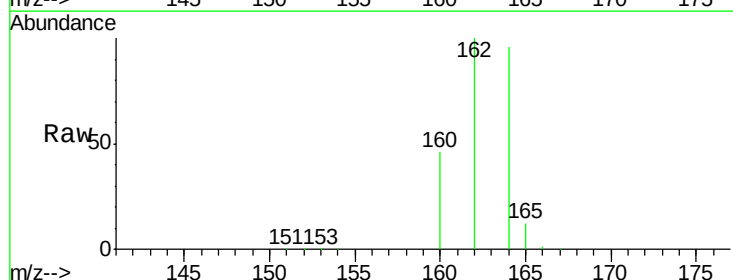
Tgt Ion:164 Resp: 130873

Ion Ratio Lower Upper

164 100

162 103.9 88.5 132.7

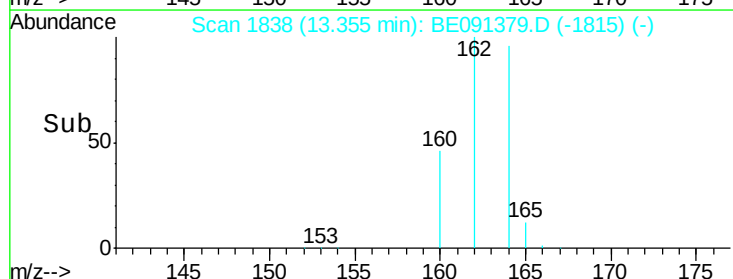
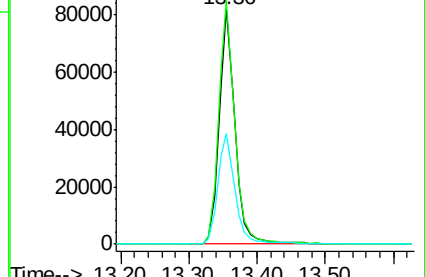
160 47.3 76.7 115.1#

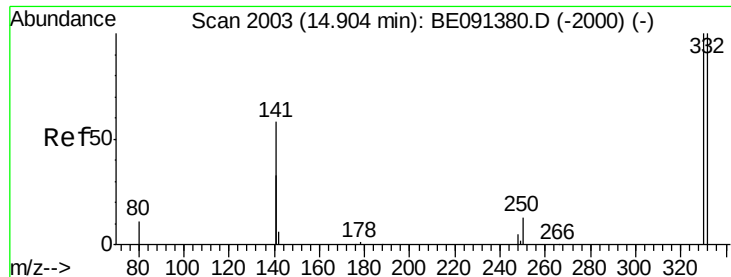


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 0.88 ng

RT: 14.91 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

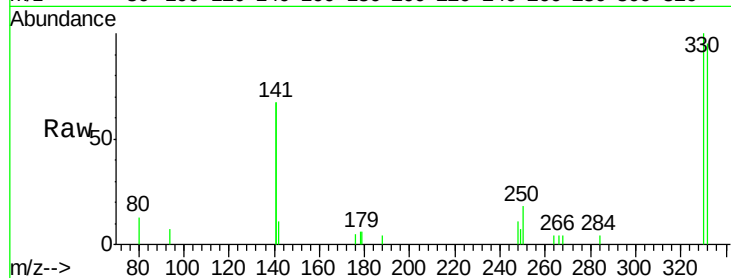
Tot Ion:330 Resp: 2358

Ion Ratio Lower Upper

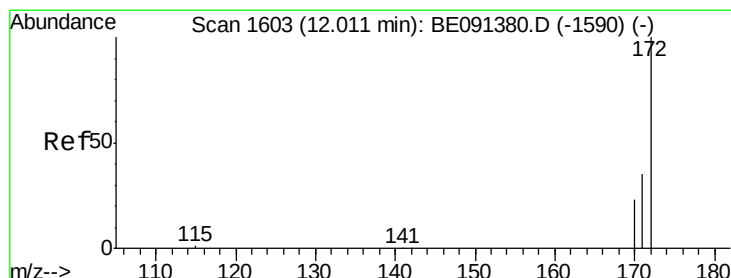
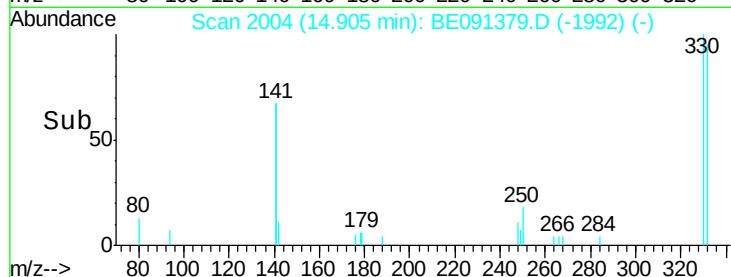
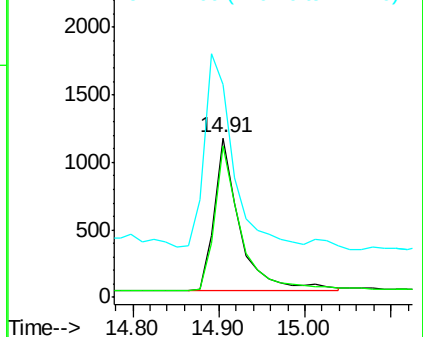
330 100

332 95.8 78.6 118.0

141 137.4 147.8 221.8#



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



#10

2-Fluorobiphenyl

Concen: 0.87 ng

RT: 12.01 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

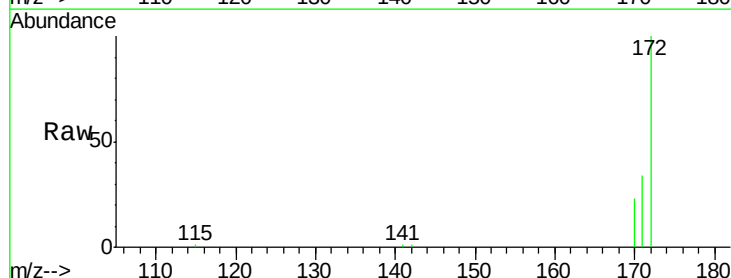
Tgt Ion:172 Resp: 24547

Ion Ratio Lower Upper

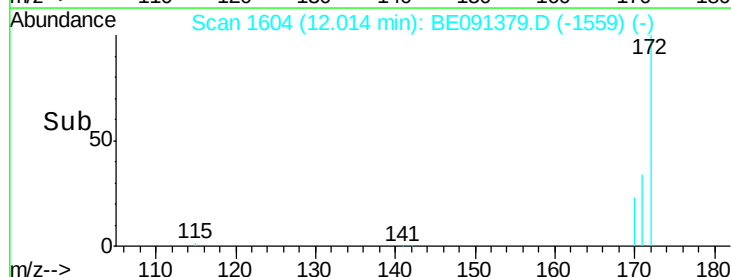
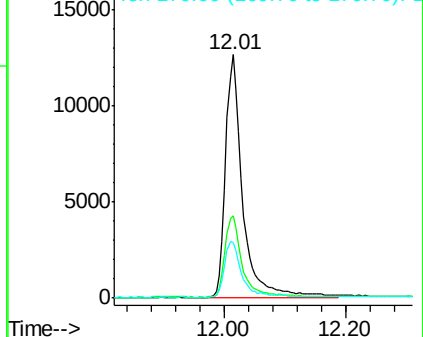
172 100

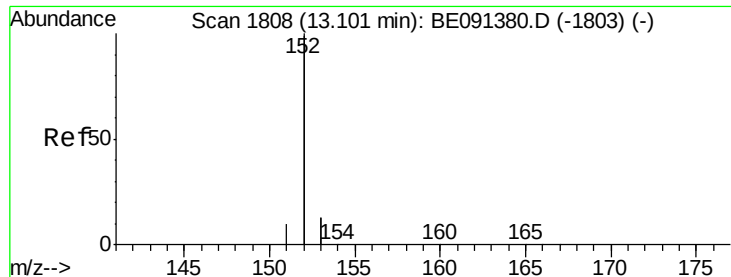
171 33.8 27.3 40.9

170 23.0 19.8 29.6



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





#11

Acenaphthylene

Concen: 0.73 ng

RT: 13.10 min Scan# 1809

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

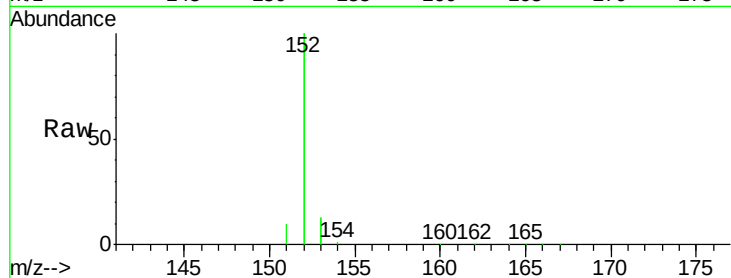
Tot Ion:152 Resp: 125099

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

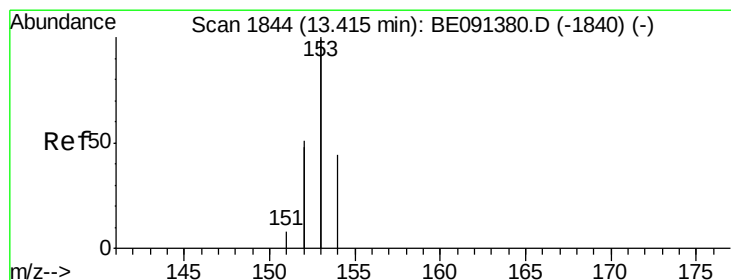
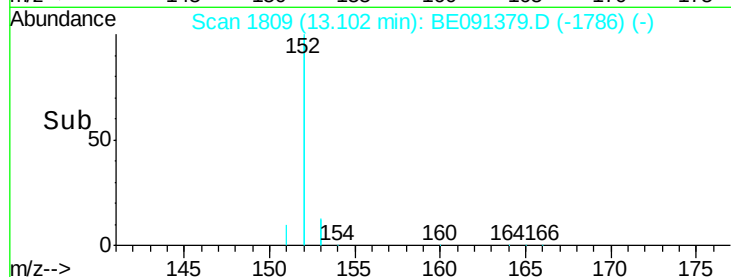
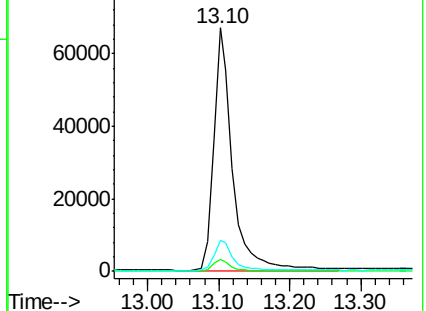
153 12.8 10.1 15.1



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



#12

Acenaphthene

Concen: 0.69 ng

RT: 13.42 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

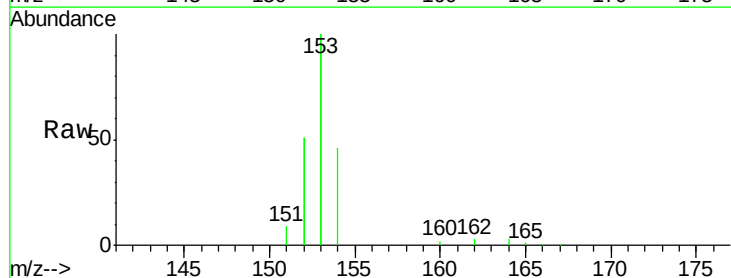
Tgt Ion:154 Resp: 25709

Ion Ratio Lower Upper

154 100

153 457.9 370.2 555.4

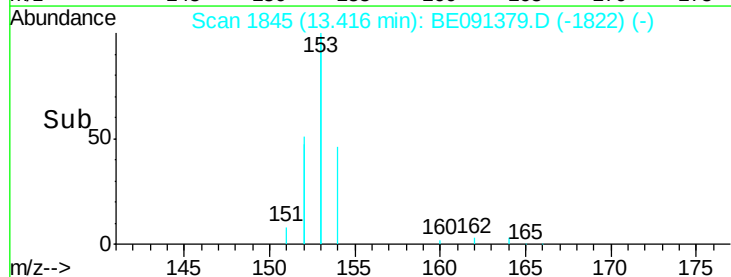
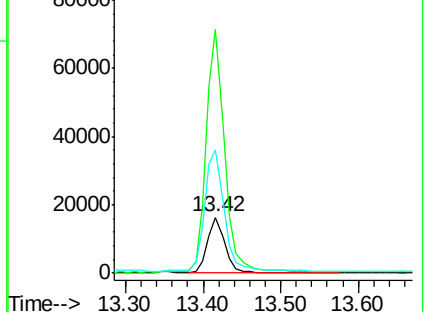
152 244.6 310.5 465.7#

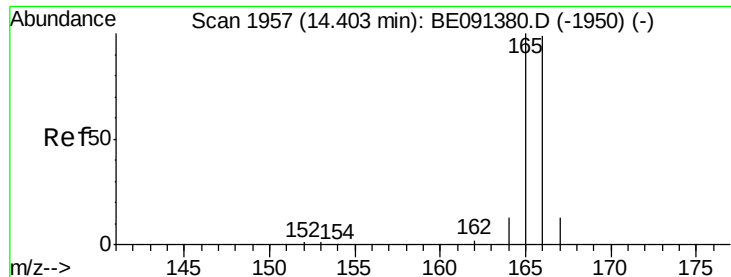


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 0.82 ng

RT: 14.40 min Scan# 1958

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

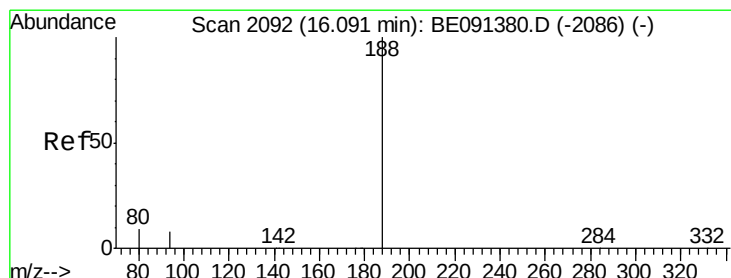
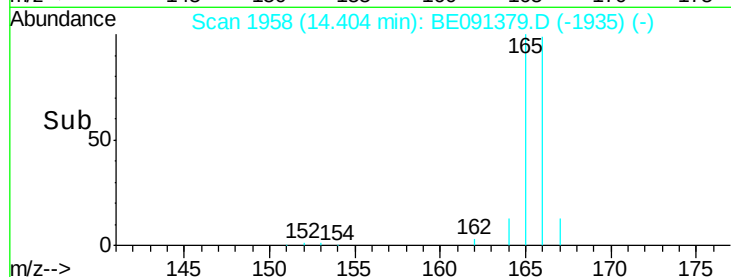
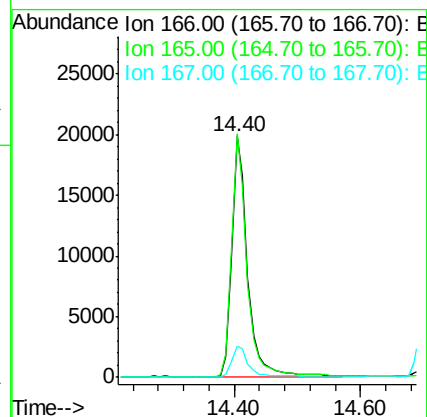
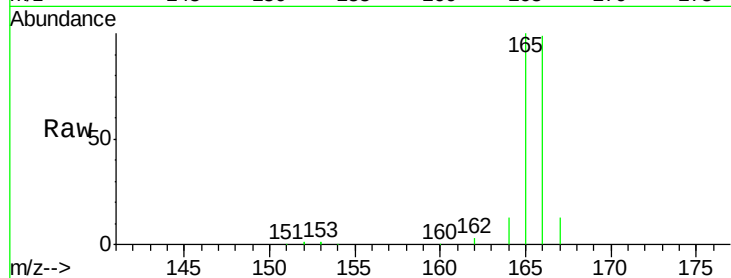
Tot Ion:166 Resp: 33703

Ion Ratio Lower Upper

166 100

165 98.8 83.0 124.6

167 13.2 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

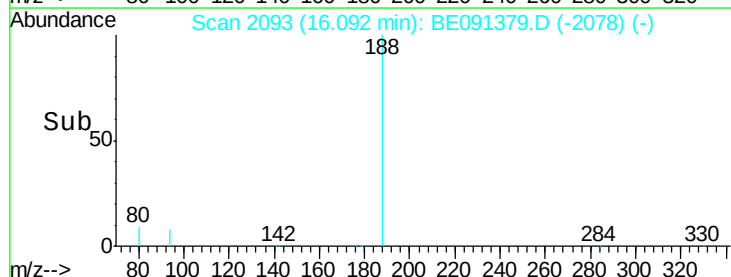
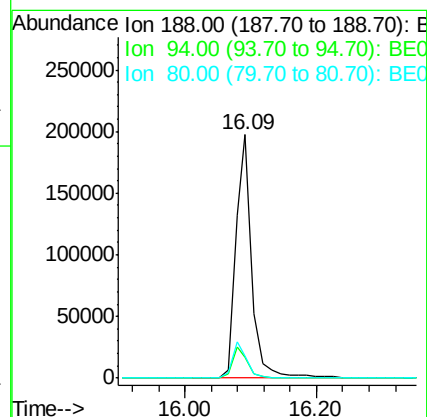
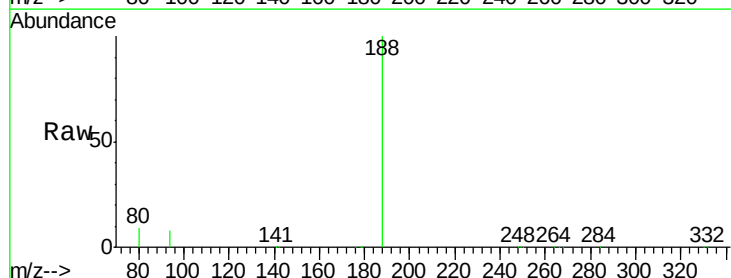
Tgt Ion:188 Resp: 335823

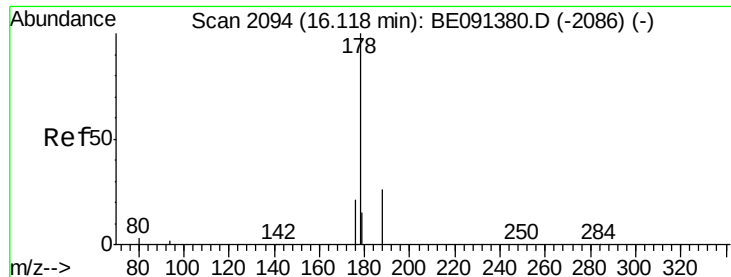
Ion Ratio Lower Upper

188 100

94 8.4 7.5 11.3

80 9.0 8.2 12.2





#15

Phenanthrene

Concen: 0.78 ng

RT: 16.12 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

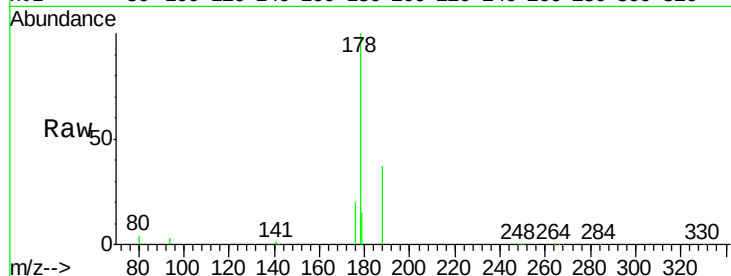
BNA_E

ClientSampleId :

SSTDIC0.8

Tot Ion:178 Resp: 64838

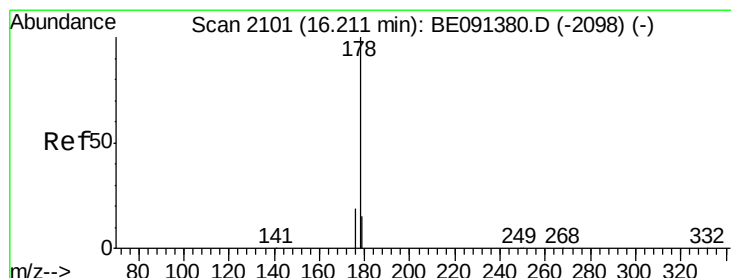
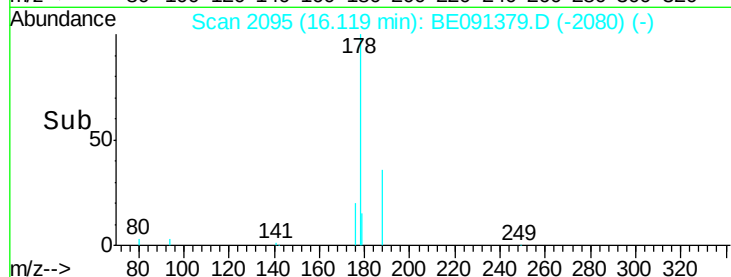
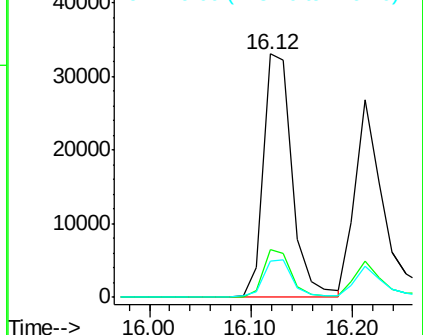
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.8	12.8	19.2



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



#16

Anthracene

Concen: 0.89 ng

RT: 16.21 min Scan# 2102

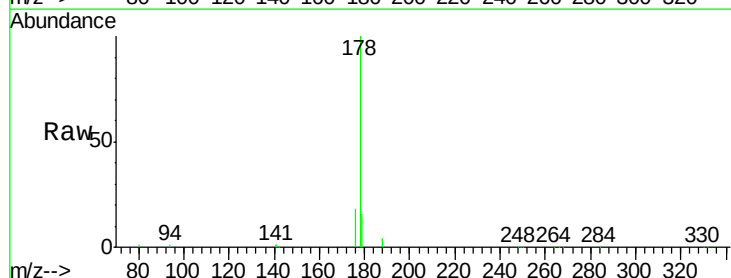
Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Tgt Ion:178 Resp: 52060

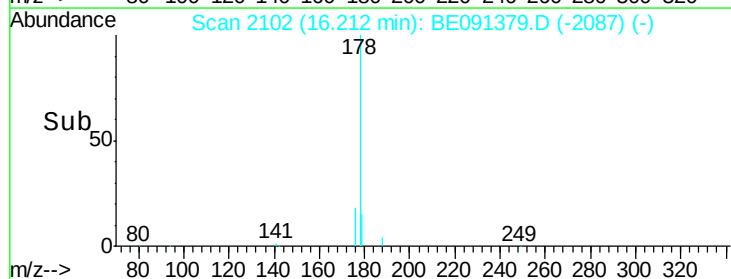
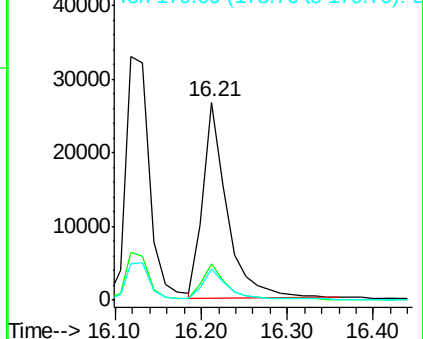
Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.7	12.4	18.6

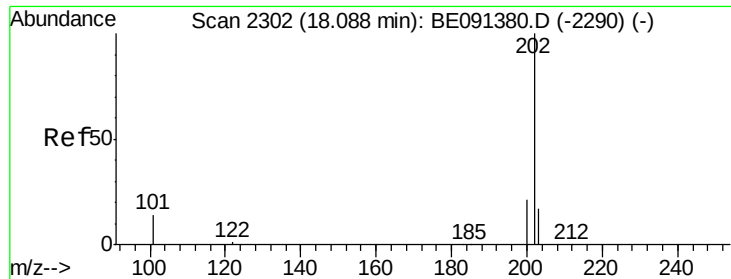


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

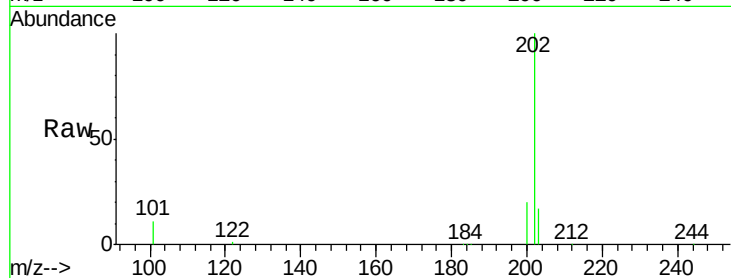




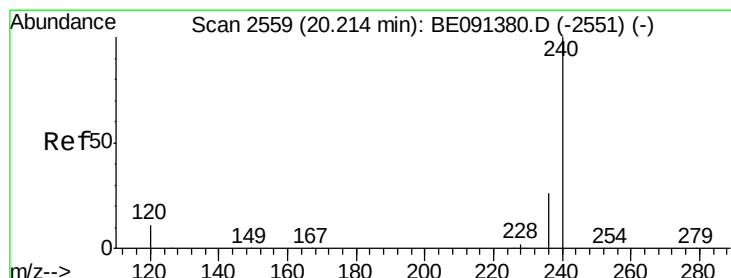
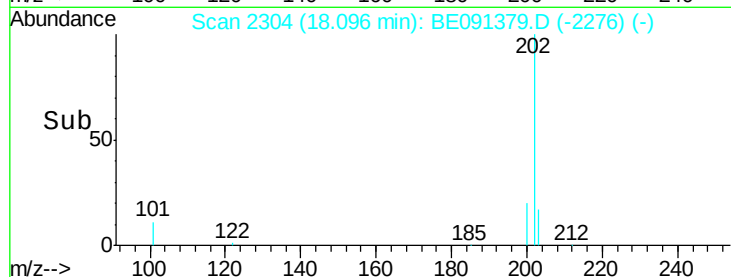
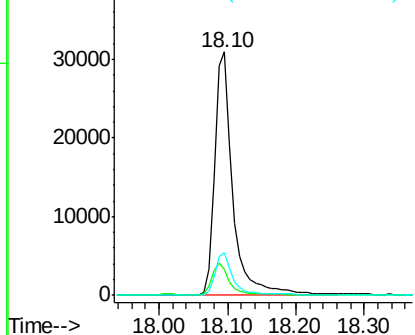
#17
 Fluoranthene
 Concen: 0.94 ng
 RT: 18.10 min Scan# 2304
 Delta R.T. 0.01 min
 Lab File: BE091379.D
 Acq: 2 Feb 2016 16:05

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.0	11.0	16.4
203	17.3	13.9	20.9

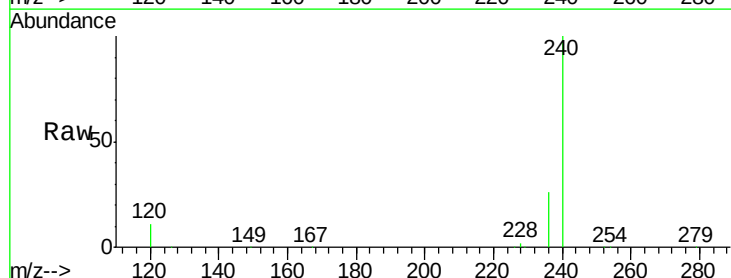


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

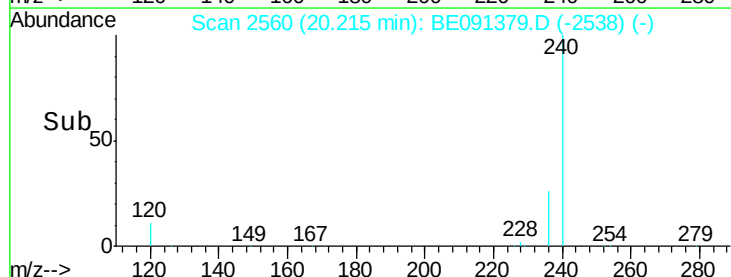
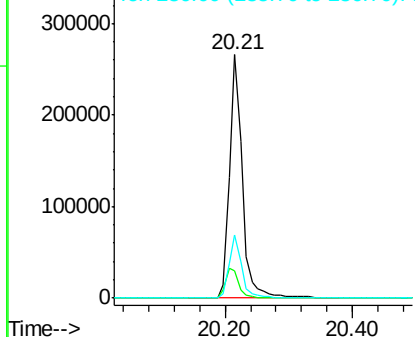


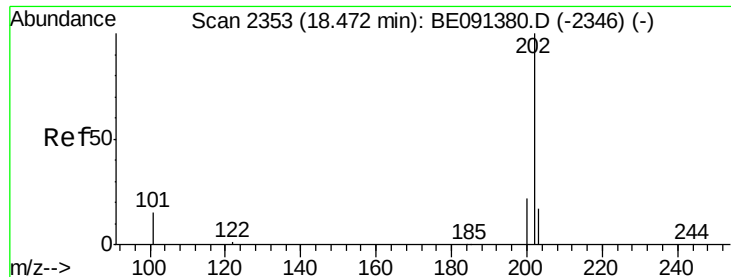
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091379.D
 Acq: 2 Feb 2016 16:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.2	12.6	19.0#
236	25.9	22.7	34.1



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





#19

Pvrene

Concen: 1.01 ng

RT: 18.48 min Scan# 2355

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

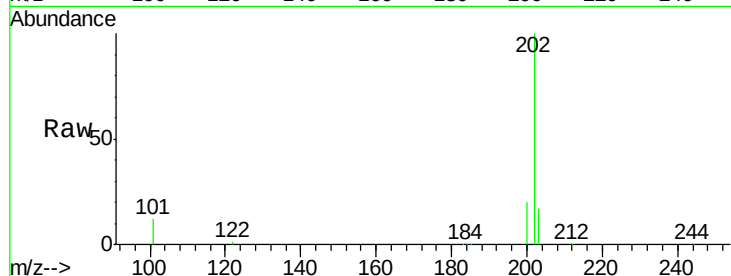
Tot Ion:202 Resp: 57324

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

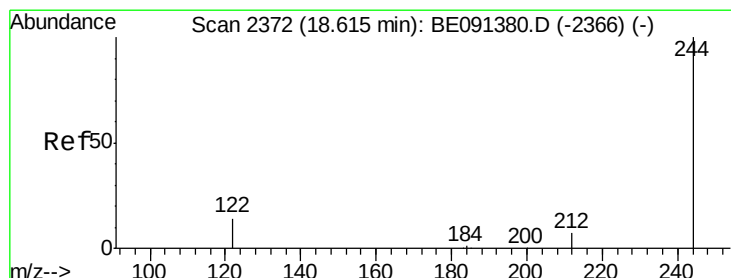
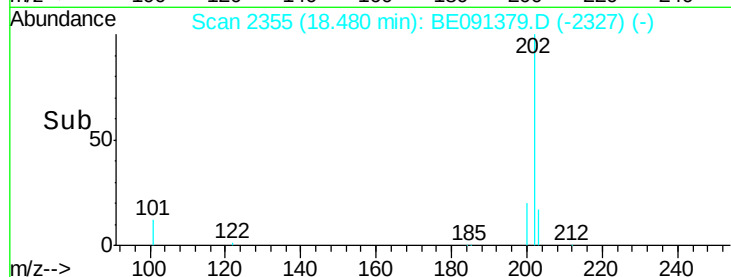
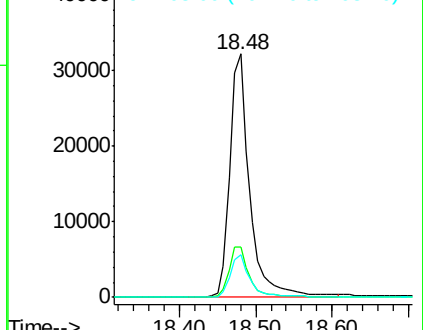
203 17.2 14.2 21.4



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



#20

Terphenyl-d14

Concen: 1.13 ng

RT: 18.62 min Scan# 2374

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

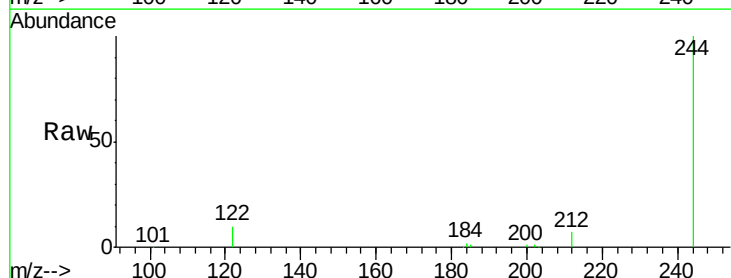
Tgt Ion:244 Resp: 39961

Ion Ratio Lower Upper

244 100

212 7.4 7.0 10.4

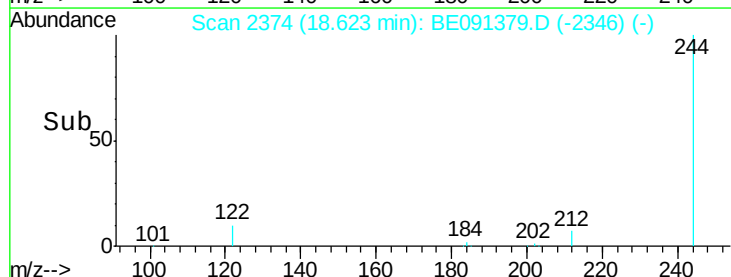
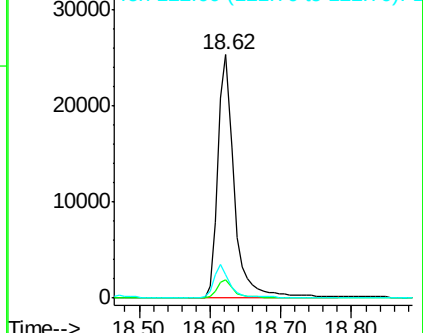
122 9.7 8.5 12.7

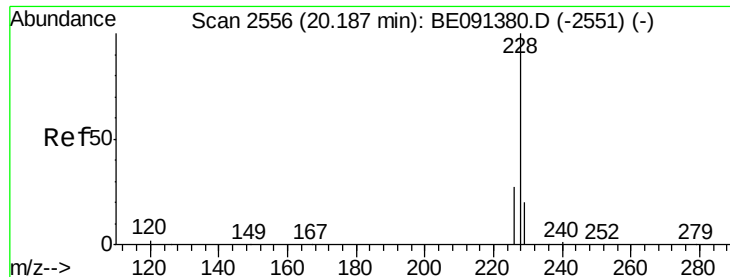


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.88 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

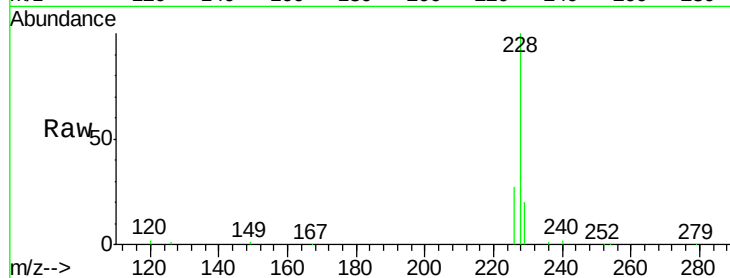
Tot Ion:228 Resp: 45696

Ion Ratio Lower Upper

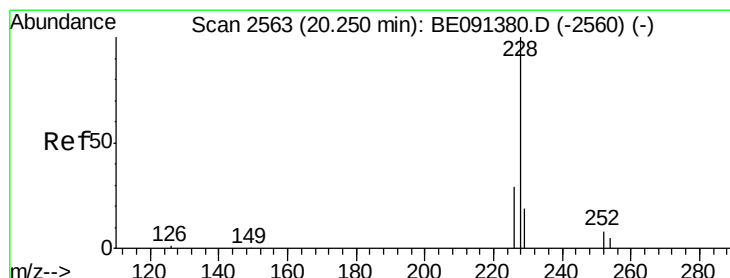
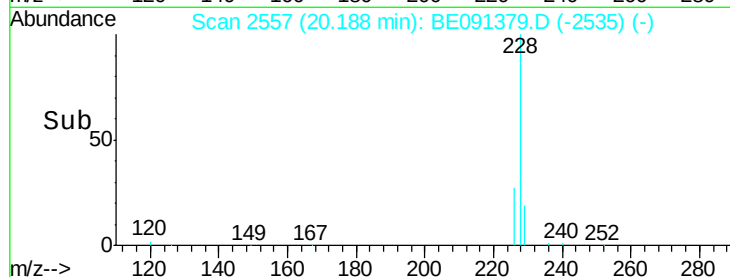
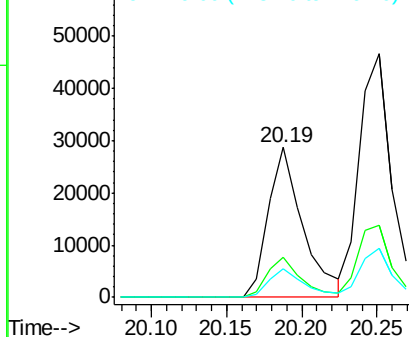
228 100

226 27.0 22.5 33.7

229 19.5 16.2 24.4



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



#22

Chrysene

Concen: 0.81 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

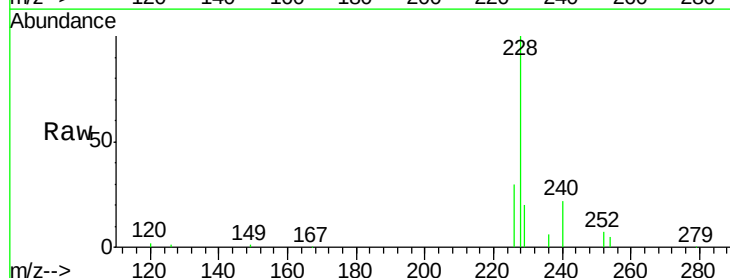
Tgt Ion:228 Resp: 72765

Ion Ratio Lower Upper

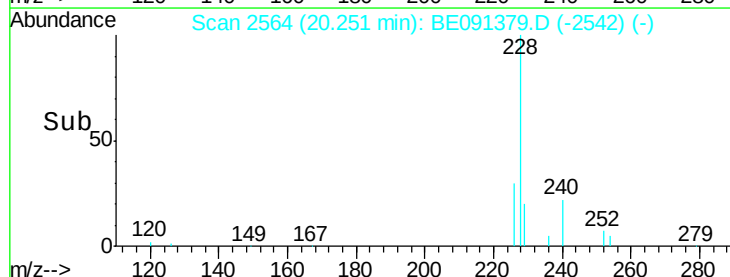
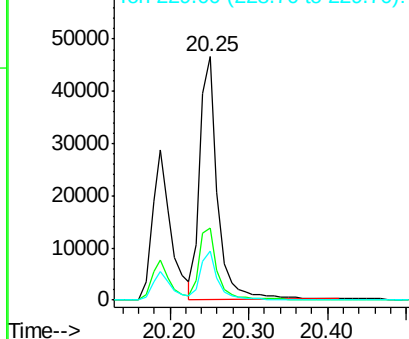
228 100

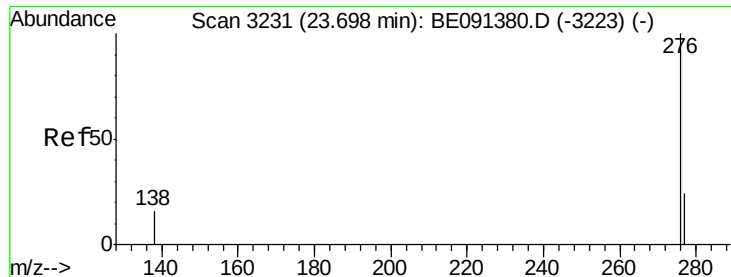
226 29.6 23.7 35.5

229 20.3 16.0 24.0



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





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.79 ng

RT: 23.70 min Scan# 3233

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

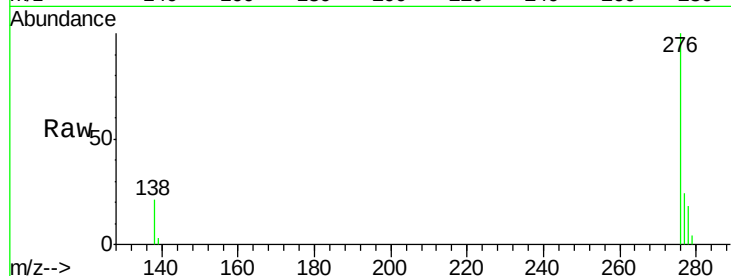
Tot Ion:276 Resp: 46810

Ion Ratio Lower Upper

276 100

138 21.5 18.6 27.8

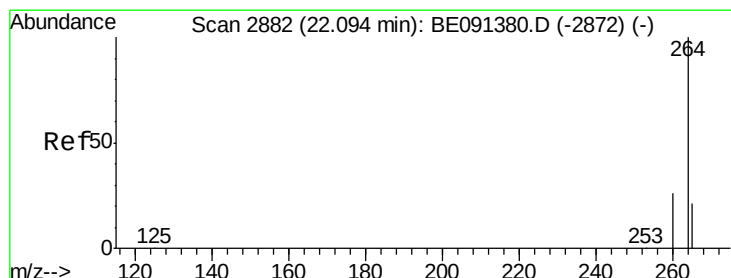
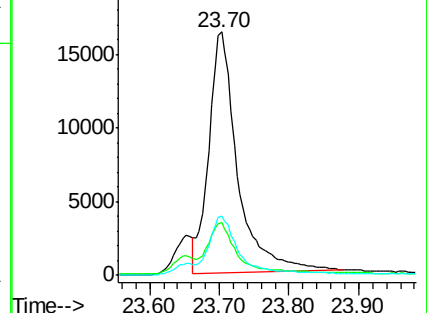
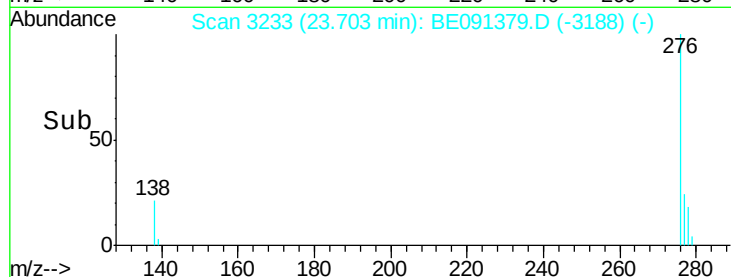
277 23.5 16.5 24.7



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

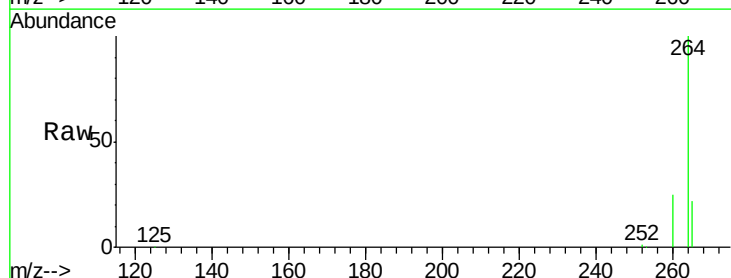
Tgt Ion:264 Resp: 343180

Ion Ratio Lower Upper

264 100

260 25.1 20.4 30.6

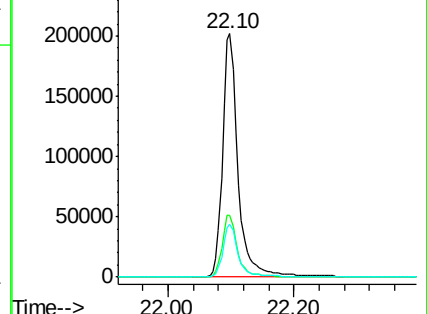
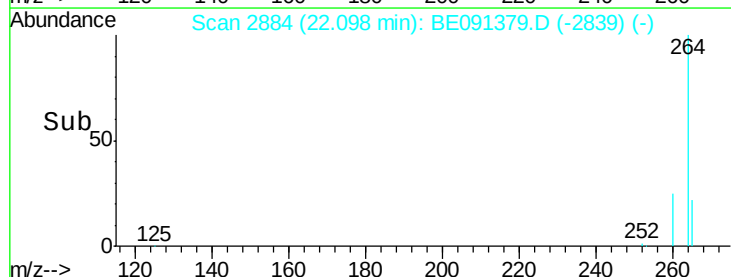
265 21.8 17.2 25.8

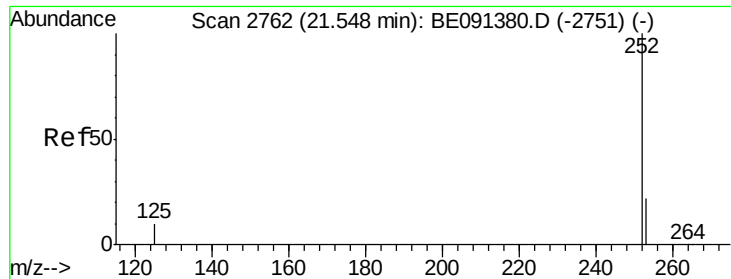


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#25

Benzo(b)fluoranthene

Concen: 0.87 ng

RT: 21.55 min Scan# 2763

Delta R.T. -0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

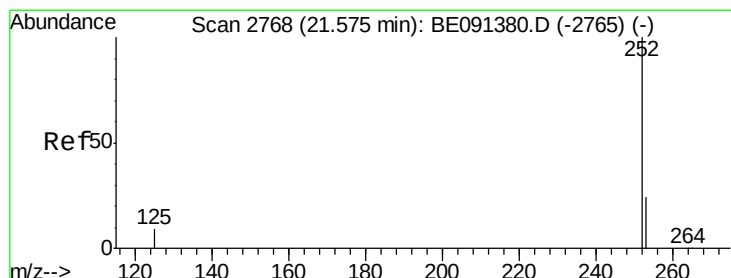
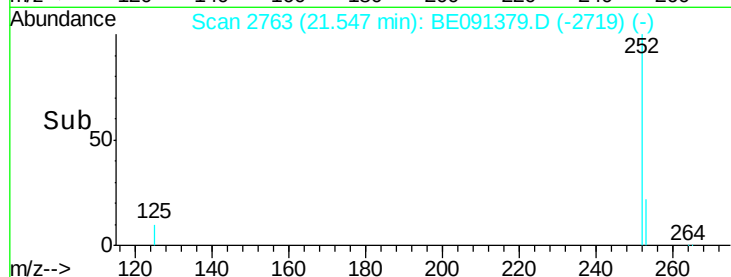
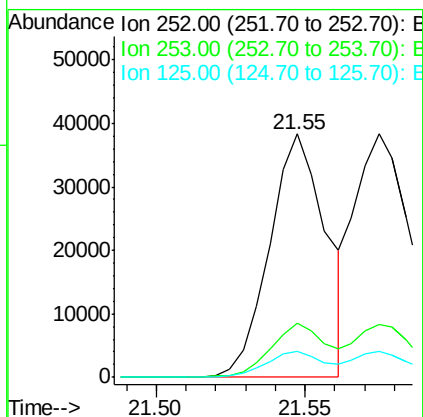
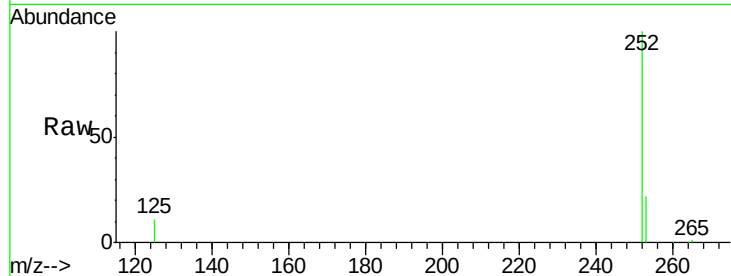
Tot Ion:252 Resp: 50062

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

125 10.5 11.0 16.6#



#26

Benzo(k)fluoranthene

Concen: 0.89 ng

RT: 21.57 min Scan# 2769

Delta R.T. -0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

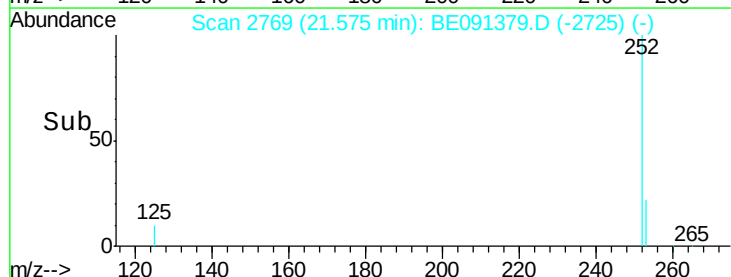
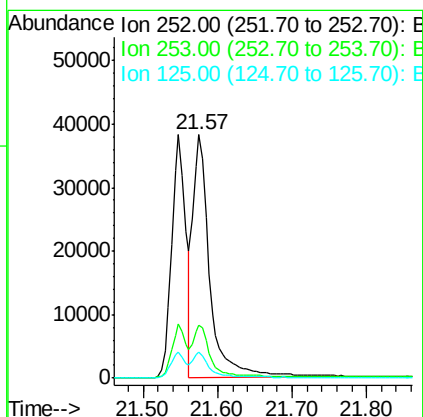
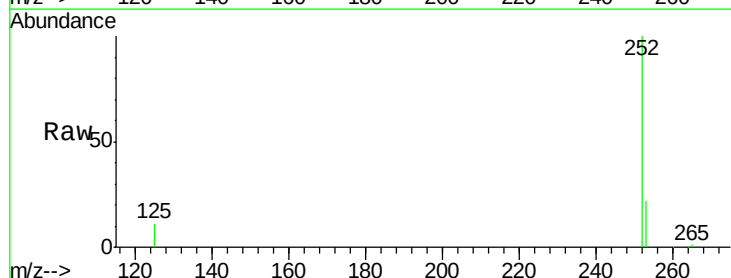
Tgt Ion:252 Resp: 59878

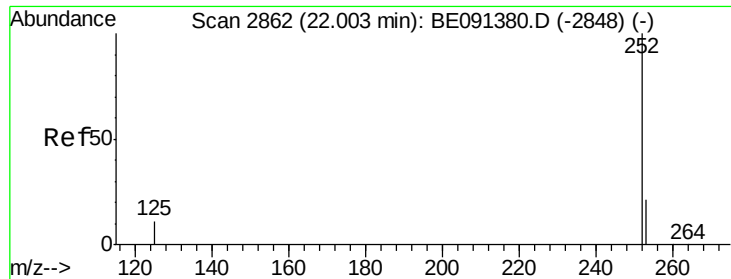
Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

125 10.6 11.3 16.9#





#27

Benzo(a)pyrene

Concen: 0.73 ng

RT: 22.00 min Scan# 2863

Delta R.T. -0.00 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

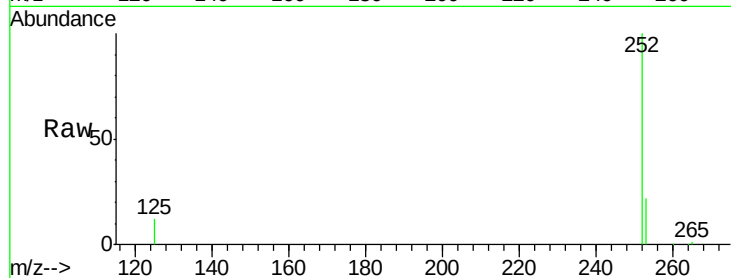
Tot Ion:252 Resp: 43112

Ion Ratio Lower Upper

252 100

253 22.3 18.1 27.1

125 11.5 12.2 18.4#

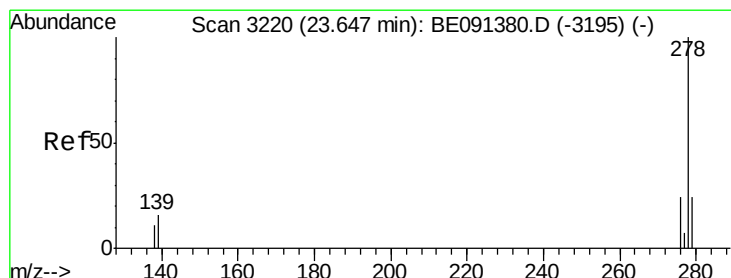
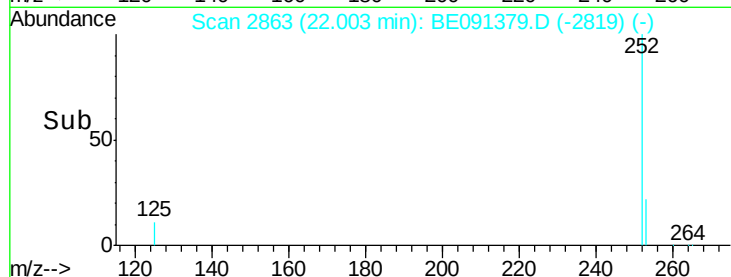
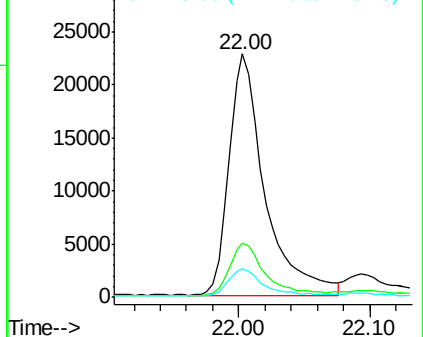


Abundance

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



#28

Dibenzo(a,h)anthracene

Concen: 0.87 ng

RT: 23.65 min Scan# 3222

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

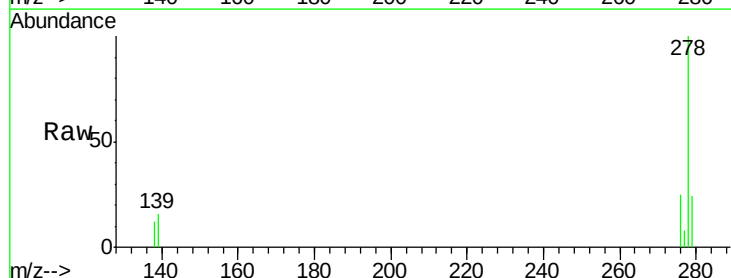
Tgt Ion:278 Resp: 37849

Ion Ratio Lower Upper

278 100

139 16.4 16.3 24.5

279 24.2 19.4 29.2

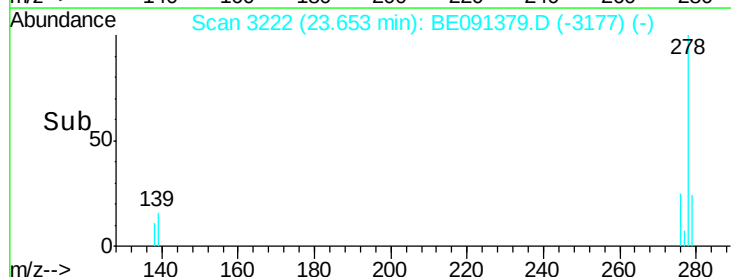
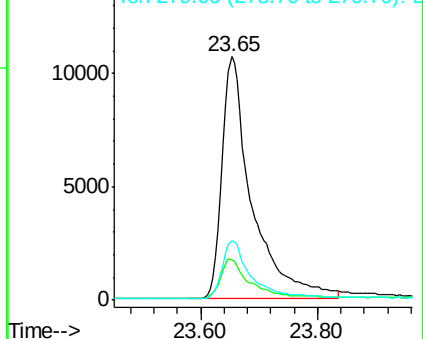


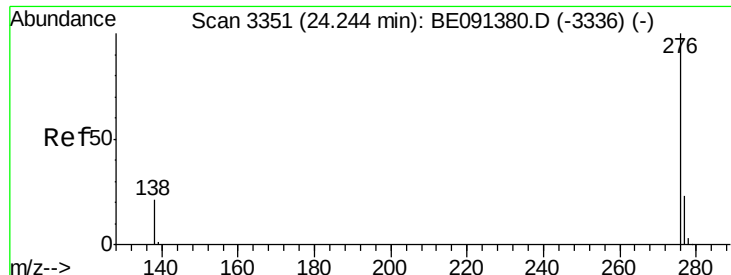
Abundance

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





#29

Benzo(a,h,i)perylene

Concen: 0.91 ng

RT: 24.25 min Scan# 3353

Delta R.T. 0.01 min

Lab File: BE091379.D

Acq: 2 Feb 2016 16:05

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

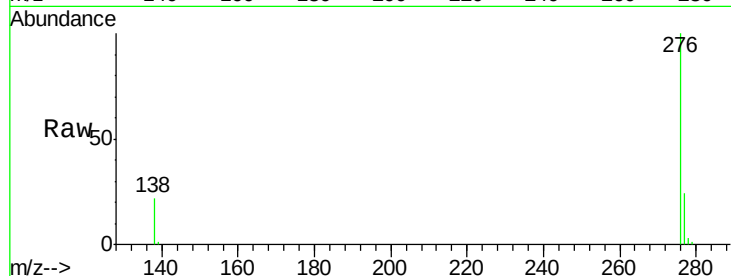
Tot Ion: 276 Resp: 50692

Ion Ratio Lower Upper

276 100

277 23.8 19.8 29.6

138 21.8 23.3 34.9#



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

