

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091380.D
 Acq On : 2 Feb 2016 16:43
 Operator : UM/IZ
 Sample : SSTDICCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC001

Quant Time: Feb 02 17:32:43 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	6.87	152	45257	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	214004	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	137474	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	346047	5.00	ng	0.00
18) Chrysene-d12	20.21	240	391340	5.00	ng	0.00
24) Perylene-d12	22.09	264	369977	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.95	112	7082	1.47	ng	0.00
3) Phenol-d6	6.57	99	11545	1.50	ng	0.00
5) Nitrobenzene-d5	8.17	82	8989	0.72	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	3323	1.18	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	31812	1.07	ng	0.00
20) Terphenyl-d14	18.61	244	53028	1.43	ng	0.00

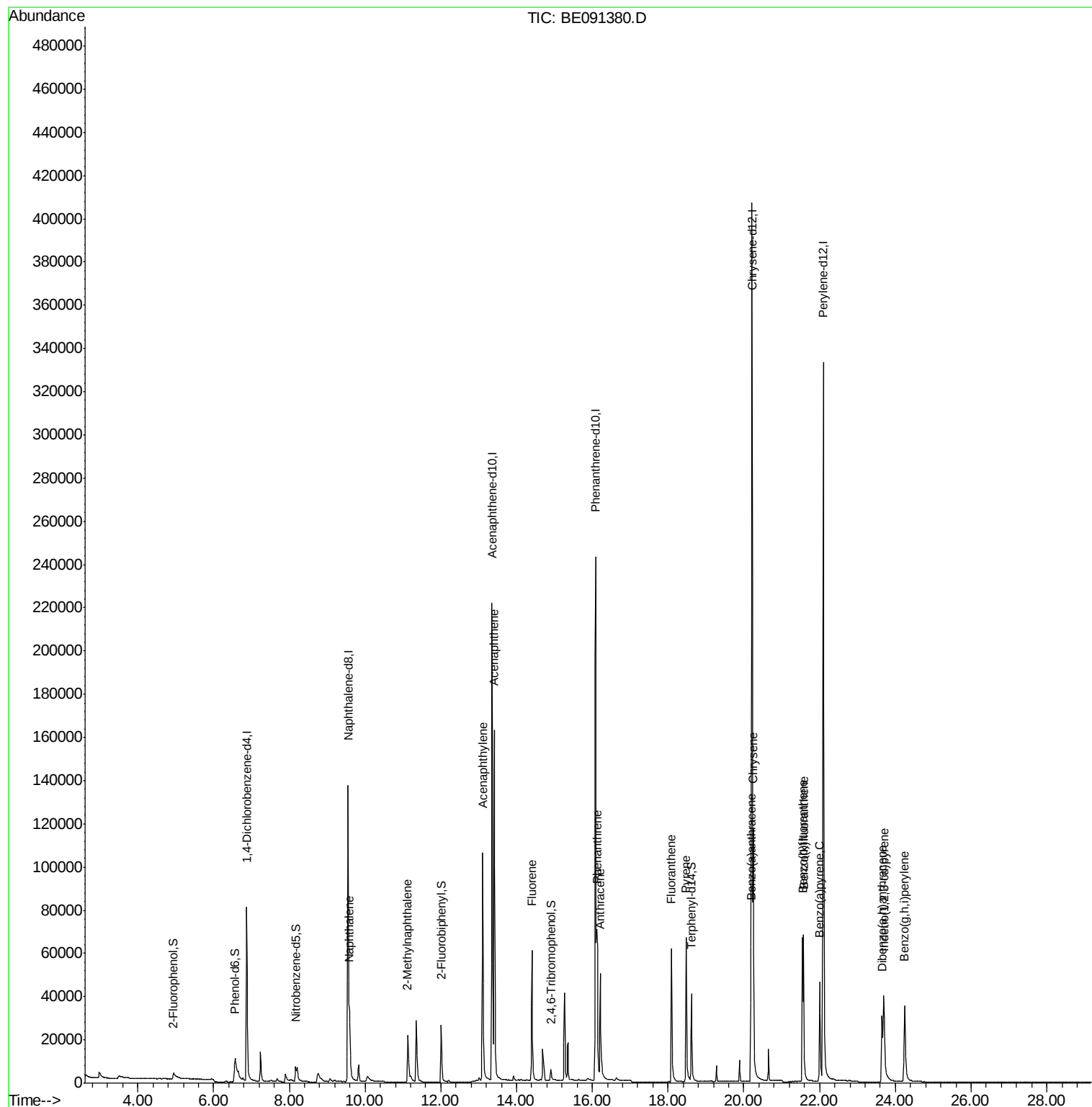
Target Compounds				Qvalue		
6) Naphthalene	9.59	128	42748	0.94	ng	100
7) 2-Methylnaphthalene	11.13	142	23156	1.30	ng	95
11) Acenaphthylene	13.10	152	167122	0.93	ng	100
12) Acenaphthene	13.42	154	32663	0.84	ng	# 71
13) Fluorene	14.40	166	43691	1.01	ng	96
15) Phenanthrene	16.12	178	80033	0.93	ng	100
16) Anthracene	16.21	178	68554	1.14	ng	99
17) Fluoranthene	18.09	202	72092	1.17	ng	99
19) Pyrene	18.47	202	75372	1.26	ng	99
21) Benzo(a)anthracene	20.19	228	61139	1.12	ng	99
22) Chrysene	20.25	228	93723	0.99	ng	99
23) Indeno(1,2,3-cd)pyrene	23.70	276	66706	1.07	ng	94
25) Benzo(b)fluoranthene	21.55	252	71378	1.15	ng	# 96
26) Benzo(k)fluoranthene	21.58	252	78639	1.08	ng	# 95
27) Benzo(a)pyrene	22.00	252	62788	0.99	ng	# 96
28) Dibenzo(a,h)anthracene	23.65	278	55507	1.18	ng	# 96
29) Benzo(g,h,i)perylene	24.24	276	70336	1.17	ng	# 91

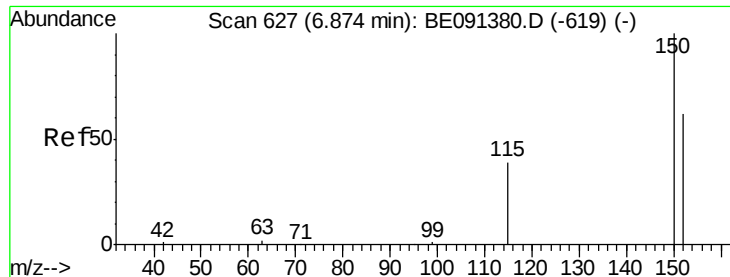
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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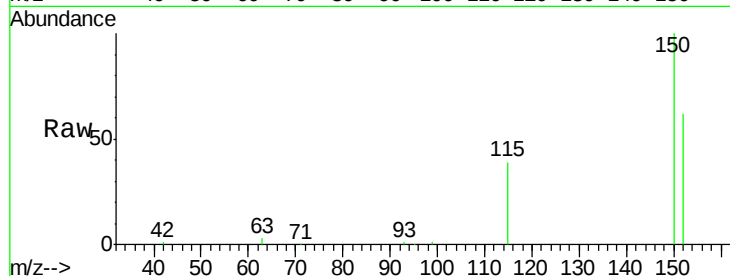


#1

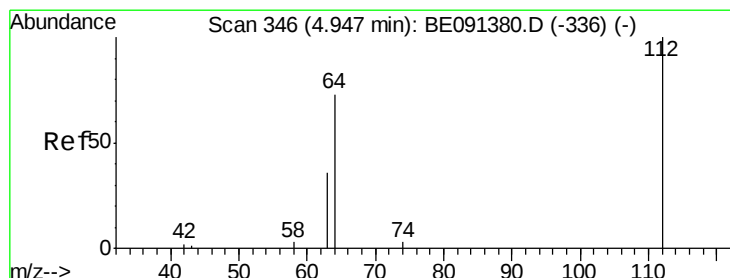
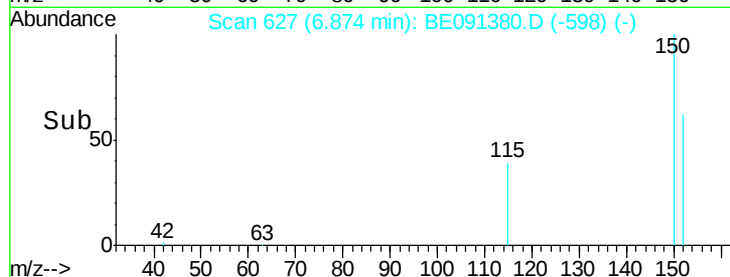
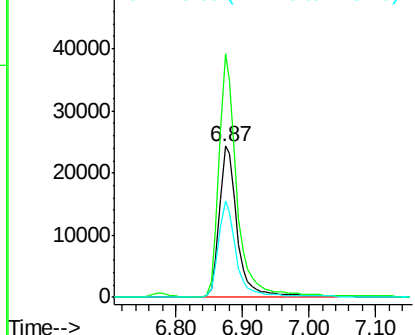
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091380.D
Acq: 2 Feb 2016 16:43

Instrument :
BNA_E
ClientSampleId :
SSTDICCC001

Tot Ion:152 Resp: 45257
Ion Ratio Lower Upper
152 100
150 161.1 121.6 182.4
115 63.6 50.6 75.8



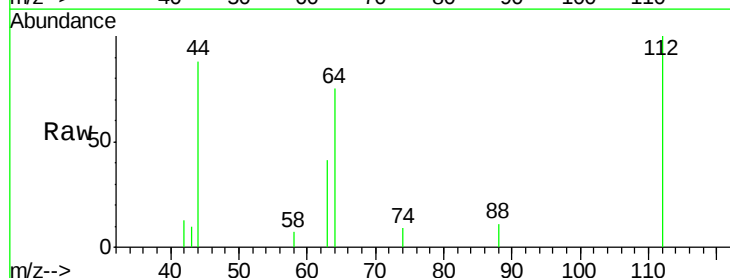
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



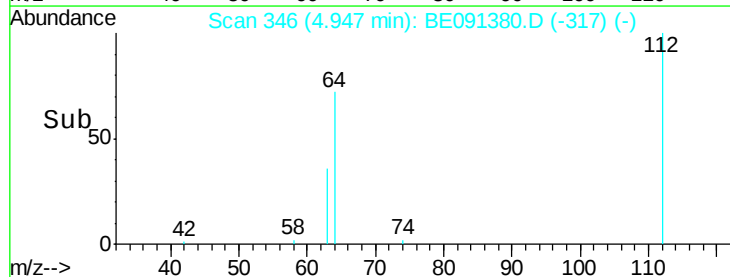
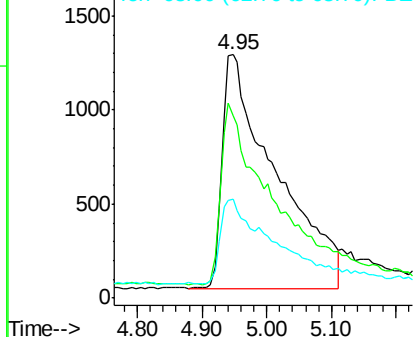
#2

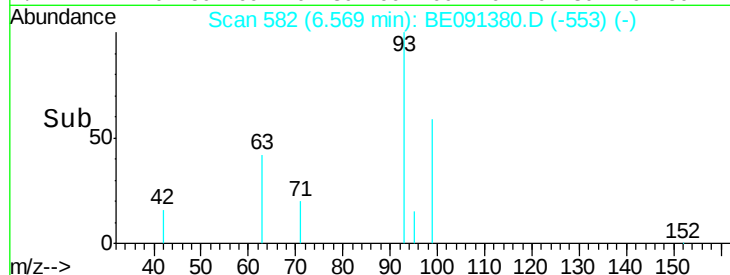
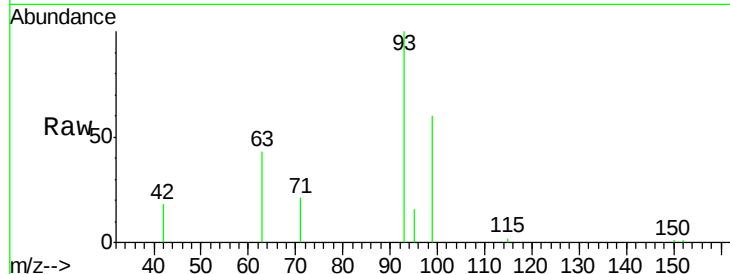
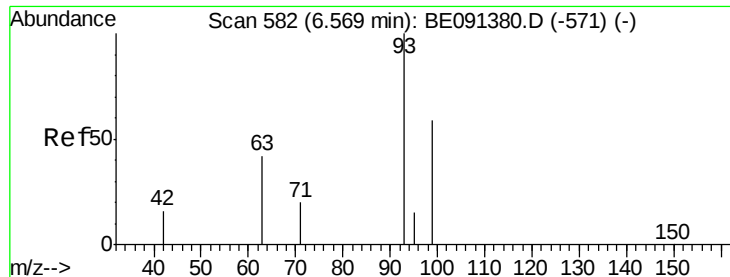
2-Fluorophenol
Concen: 1.47 ng
RT: 4.95 min Scan# 346
Delta R.T. 0.00 min
Lab File: BE091380.D
Acq: 2 Feb 2016 16:43

Tgt Ion:112 Resp: 7082
Ion Ratio Lower Upper
112 100
64 75.6 57.4 86.0
63 37.3 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: 1.50 ng

RT: 6.57 min Scan# 582

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

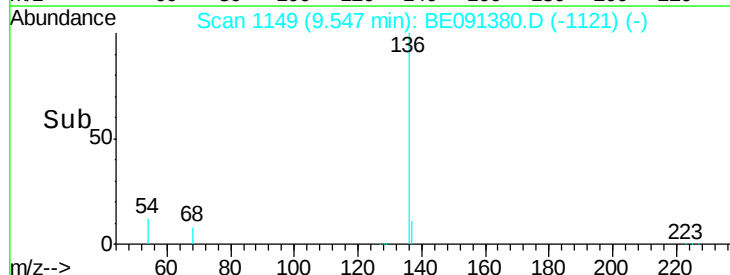
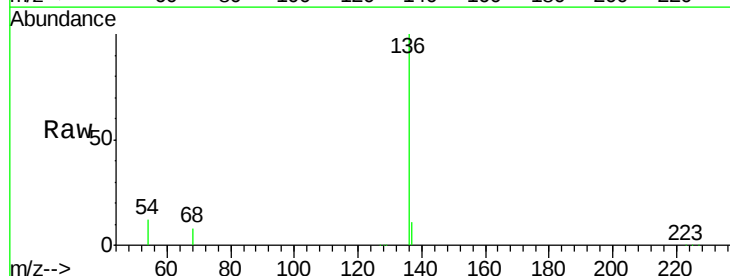
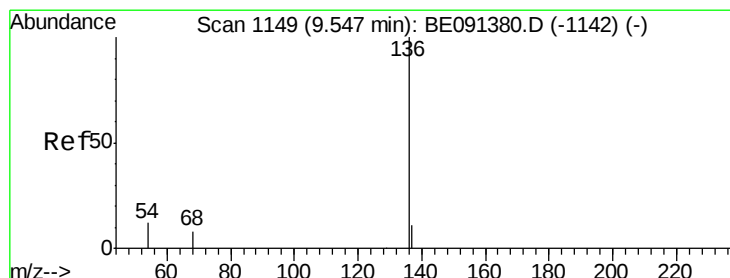
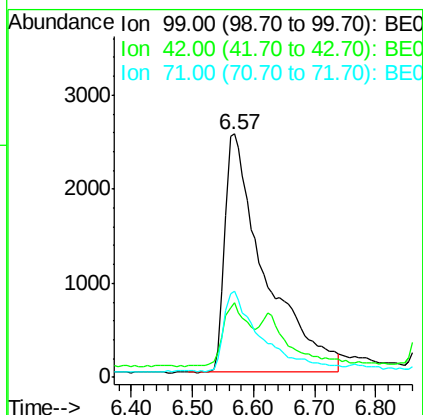
Tot Ion: 99 Resp: 11545

Ion Ratio Lower Upper

99 100

42 16.6 22.9 34.3#

71 32.0 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: BE091380.D

Acq: 2 Feb 2016 16:43

Tgt Ion: 136 Resp: 214004

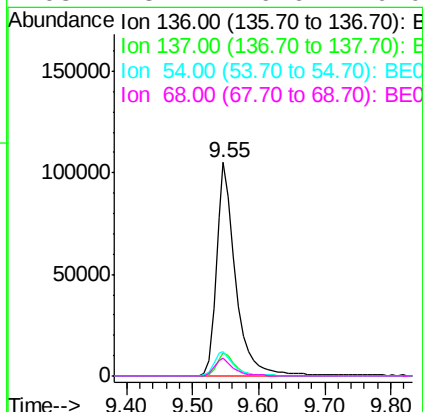
Ion Ratio Lower Upper

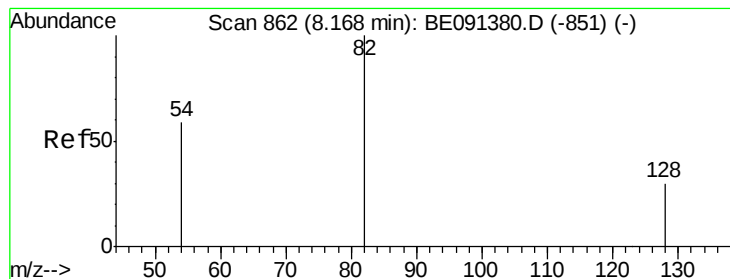
136 100

137 10.9 8.7 13.1

54 11.6 9.8 14.6

68 8.4 6.6 10.0





#5

Nitrobenzene-d5

Concen: 0.72 ng

RT: 8.17 min Scan# 862

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

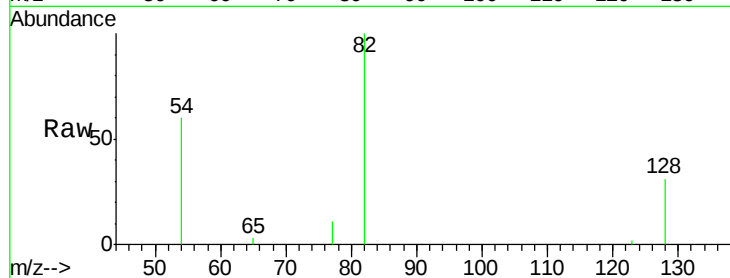
Tot Ion: 82 Resp: 8989

Ion Ratio Lower Upper

82 100

128 31.2 24.6 36.8

54 60.1 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE091380.D (-851) (-)

Ion 128.00 (127.70 to 128.70): BE091380.D (-851) (-)

Ion 54.00 (53.70 to 54.70): BE091380.D (-851) (-)

8.17

4000

3000

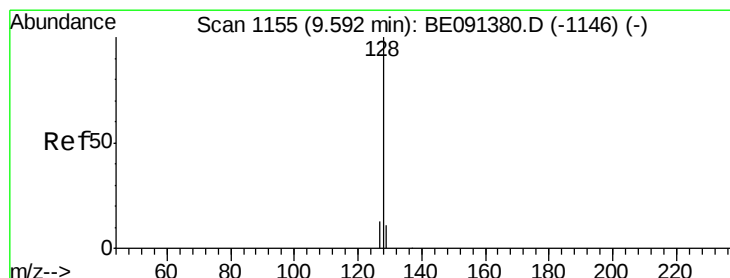
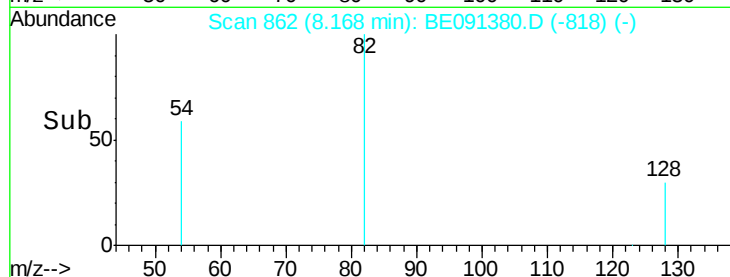
2000

1000

0

8.10 8.20 8.30 8.40

Time-->



#6

Naphthalene

Concen: 0.94 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

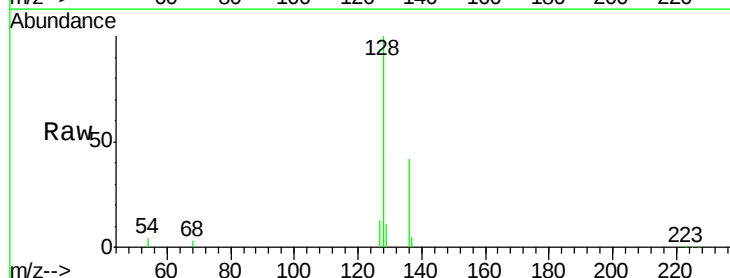
Tgt Ion: 128 Resp: 42748

Ion Ratio Lower Upper

128 100

129 11.4 9.3 13.9

127 13.1 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): BE091380.D (-1146) (-)

Ion 129.00 (128.70 to 129.70): BE091380.D (-1146) (-)

Ion 127.00 (126.70 to 127.70): BE091380.D (-1146) (-)

9.59

25000

20000

15000

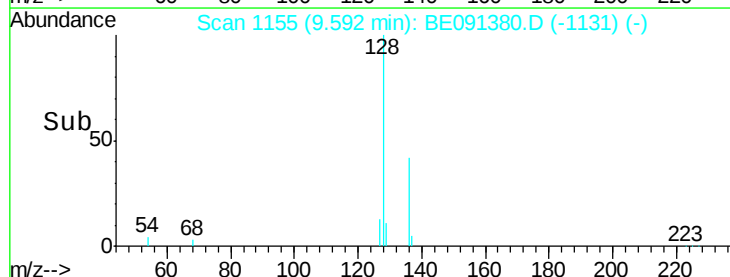
10000

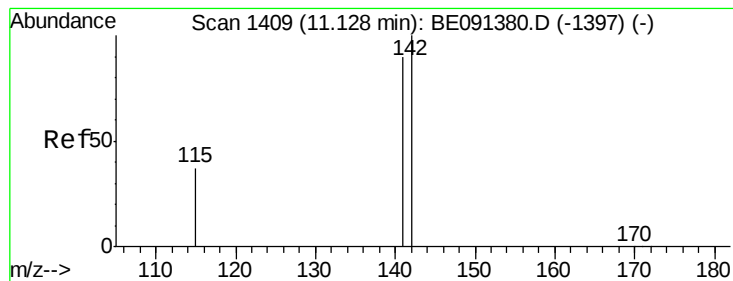
5000

0

9.50 9.60 9.70 9.80

Time-->





#7

2-Methylnaphthalene

Concen: 1.30 ng

RT: 11.13 min Scan# 1409

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

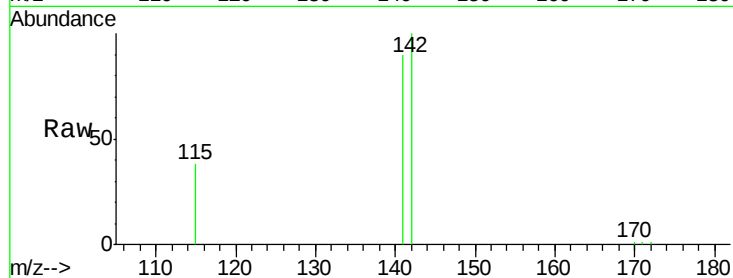
Tot Ion:142 Resp: 23156

Ion Ratio Lower Upper

142 100

141 90.4 74.5 111.7

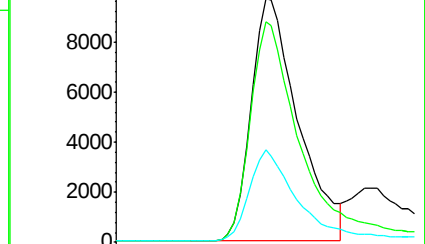
115 38.1 35.2 52.8



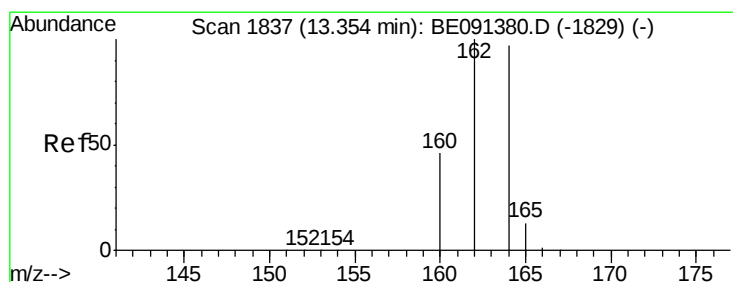
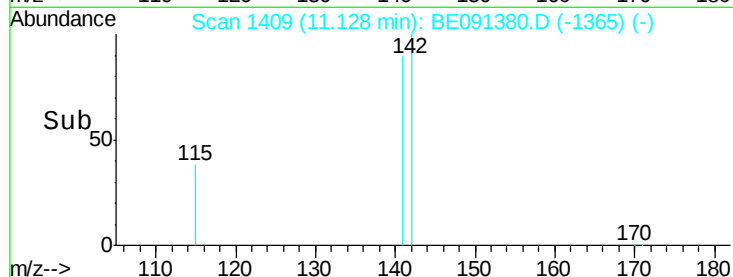
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1837

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

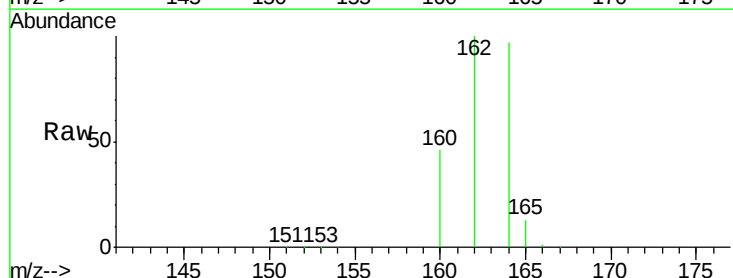
Tgt Ion:164 Resp: 137474

Ion Ratio Lower Upper

164 100

162 102.7 88.5 132.7

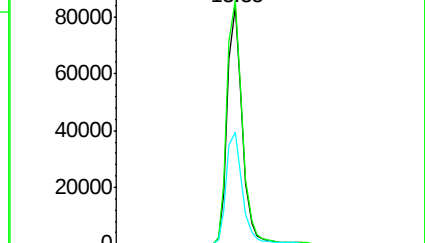
160 47.3 76.7 115.1#



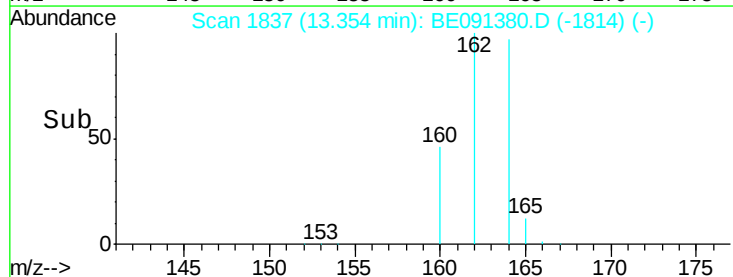
Abundance Ion 164.00 (163.70 to 164.70): E

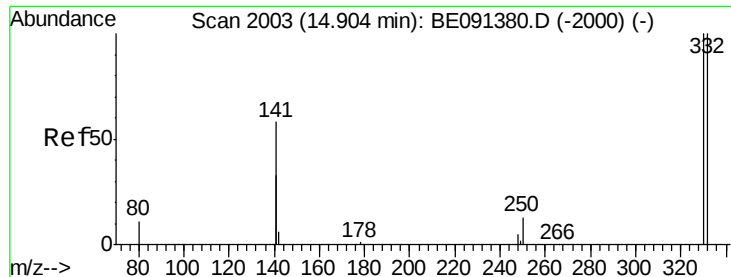
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->





#9

2,4,6-Tribromophenol

Concen: 1.18 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

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SSTDICCC001

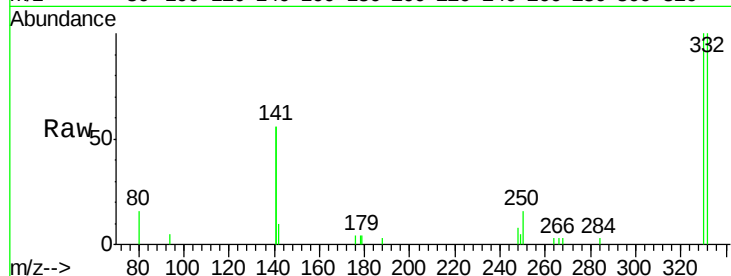
Tot Ion:330 Resp: 3323

Ion Ratio Lower Upper

330 100

332 98.5 78.6 118.0

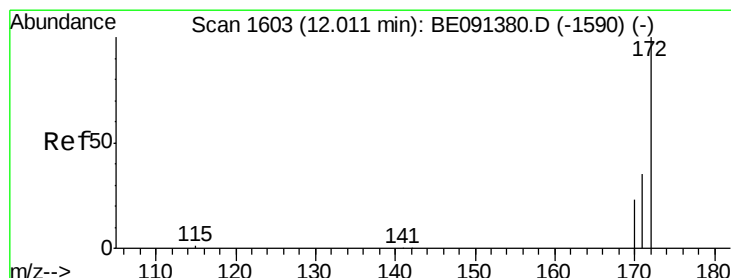
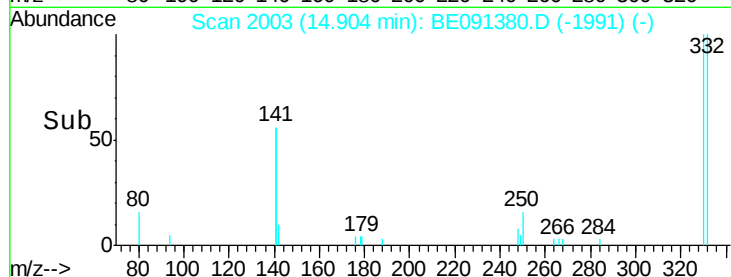
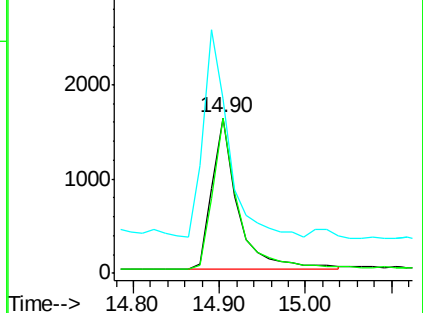
141 131.4 147.8 221.8#



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: 1.07 ng

RT: 12.01 min Scan# 1603

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

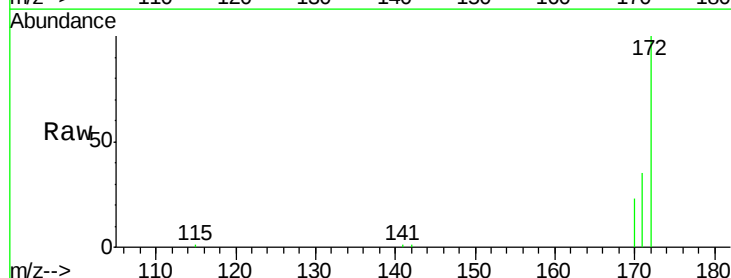
Tgt Ion:172 Resp: 31812

Ion Ratio Lower Upper

172 100

171 34.8 27.3 40.9

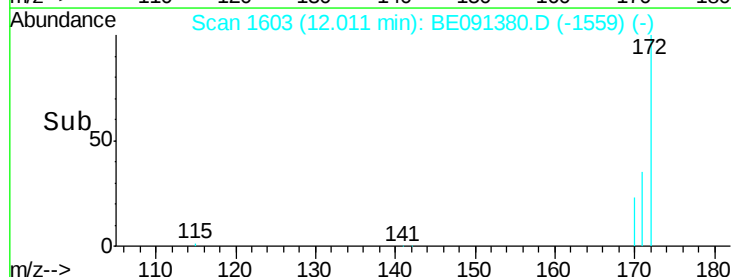
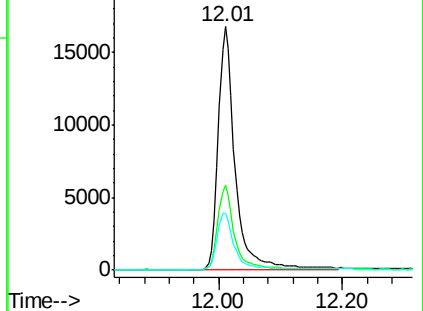
170 23.3 19.8 29.6

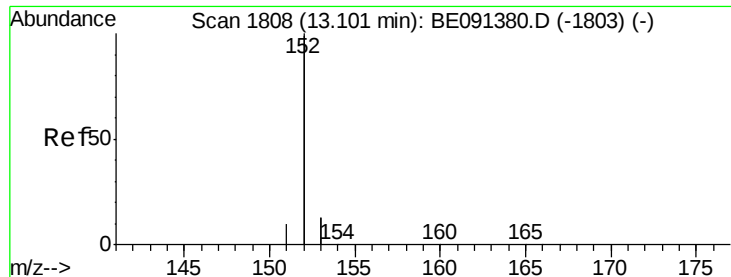


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.93 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

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SSTDICCC001

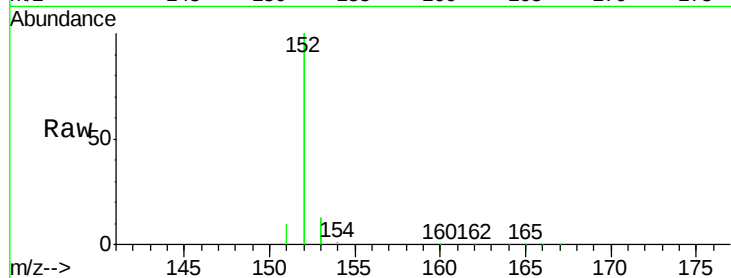
Tot Ion:152 Resp: 167122

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

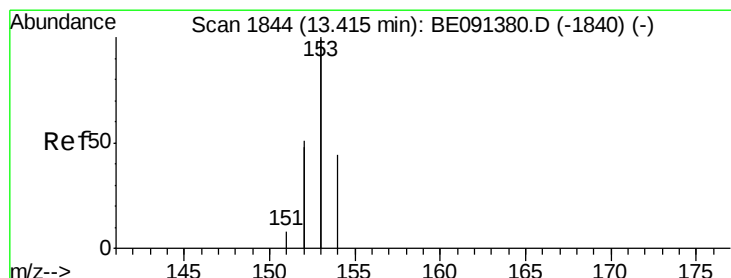
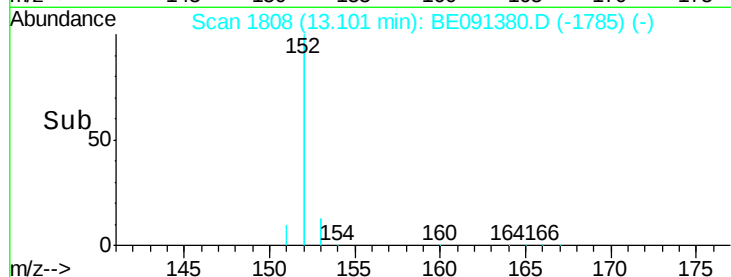
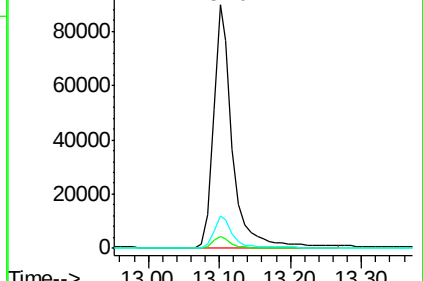
153 12.8 10.1 15.1



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: 0.84 ng

RT: 13.42 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

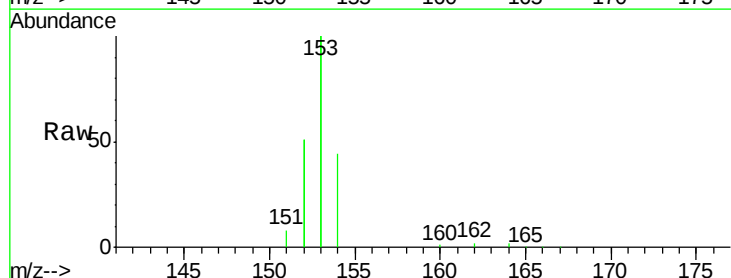
Tgt Ion:154 Resp: 32663

Ion Ratio Lower Upper

154 100

153 462.3 370.2 555.4

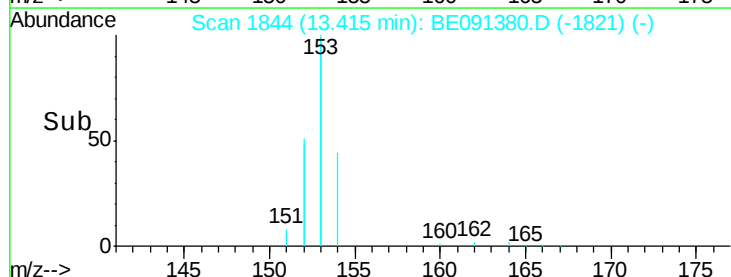
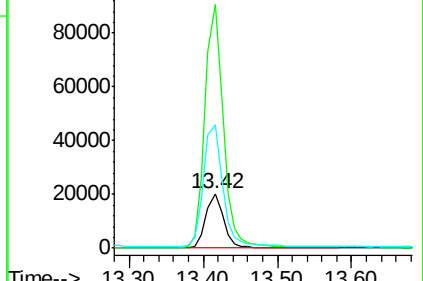
152 243.0 310.5 465.7#

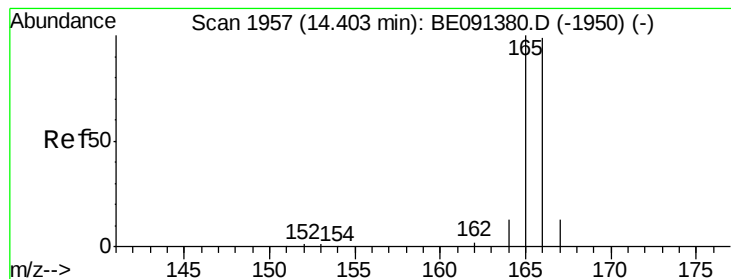


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 1.01 ng

RT: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

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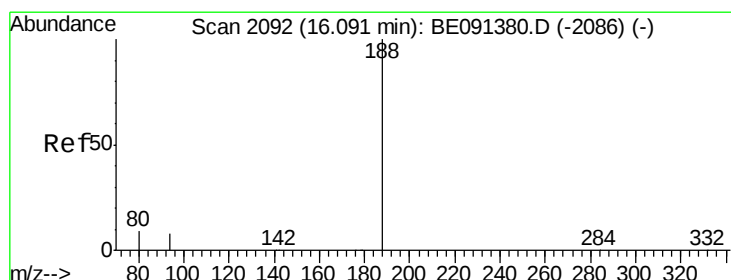
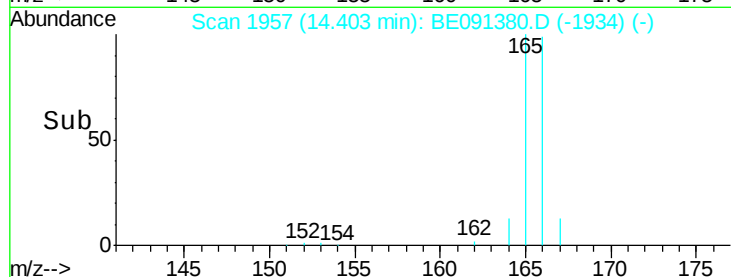
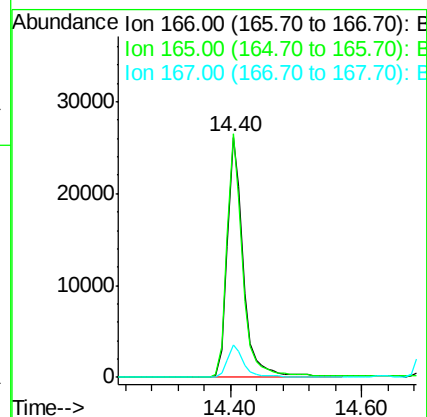
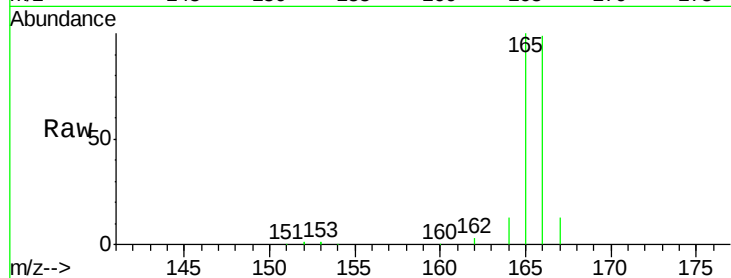
Tot Ion:166 Resp: 43691

Ion Ratio Lower Upper

166 100

165 99.1 83.0 124.6

167 13.3 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

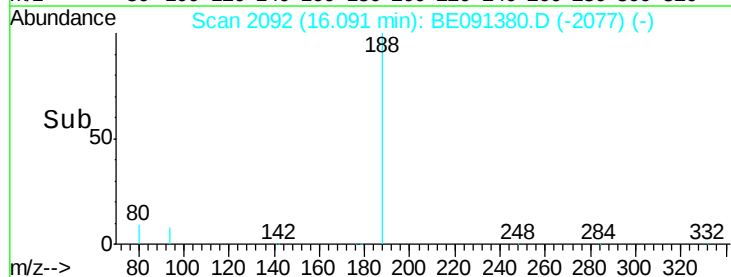
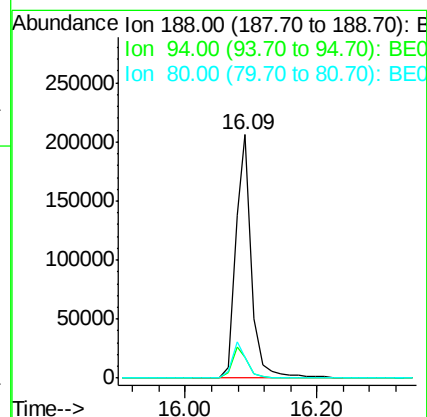
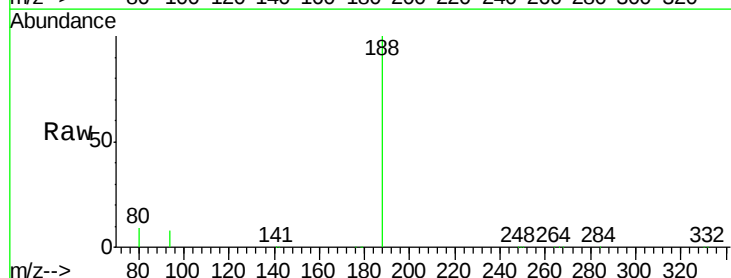
Tgt Ion:188 Resp: 346047

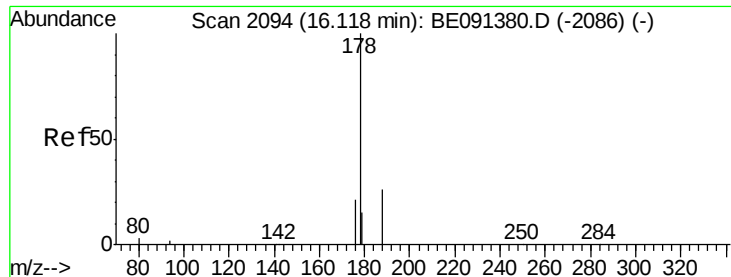
Ion Ratio Lower Upper

188 100

94 8.3 7.5 11.3

80 8.8 8.2 12.2

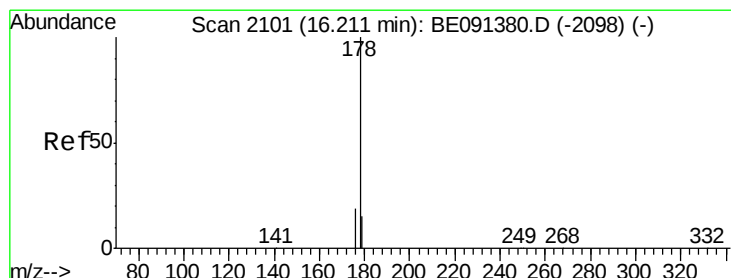
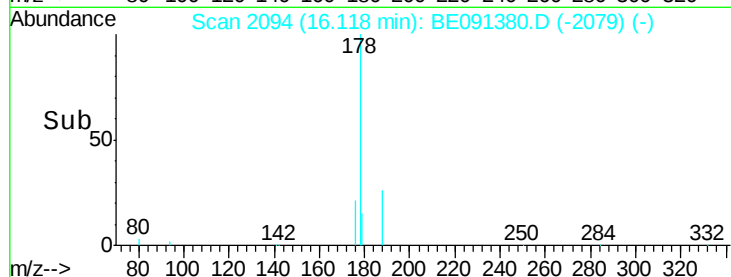
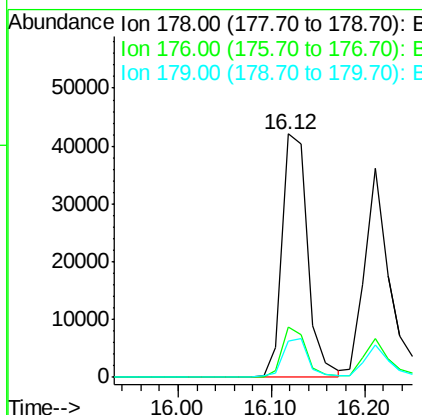
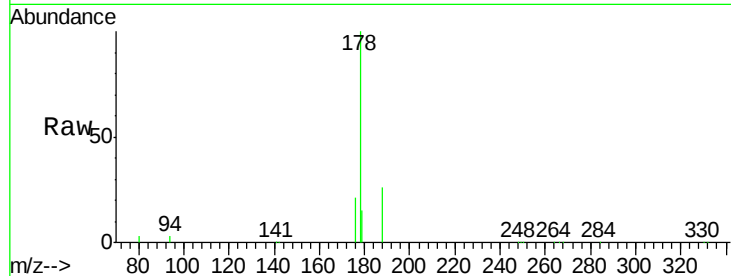




#15
Phenanthrene
Concen: 0.93 ng
RT: 16.12 min Scan# 2094
Delta R.T. 0.00 min
Lab File: BE091380.D
Acq: 2 Feb 2016 16:43

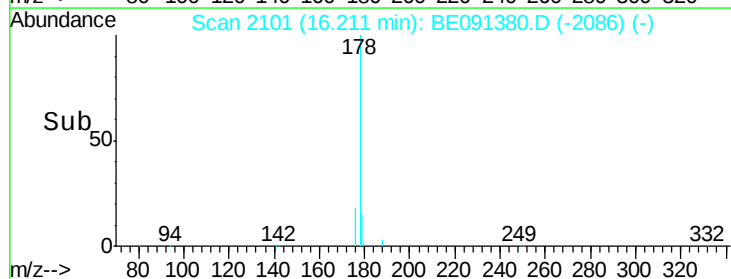
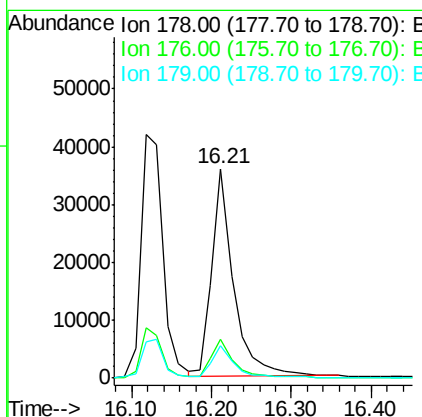
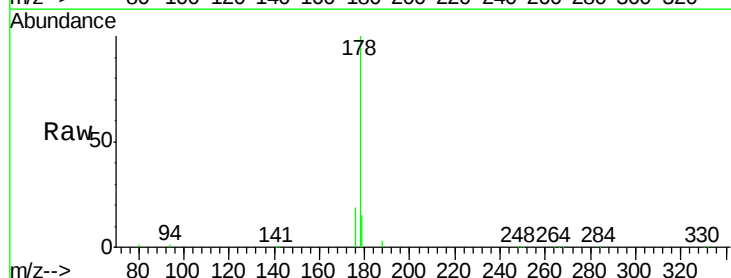
Instrument :
BNA_E
ClientSampleId :
SSTDICCC001

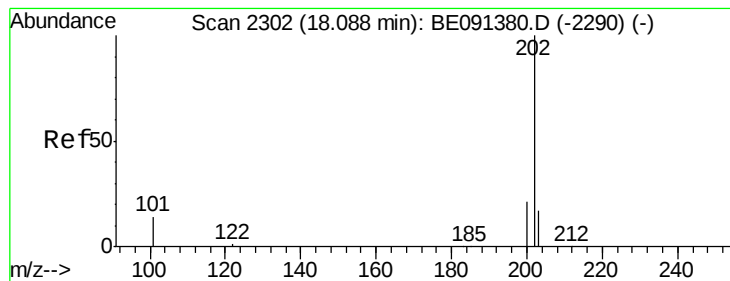
Tot Ion:178 Resp: 80033
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.9 12.8 19.2



#16
Anthracene
Concen: 1.14 ng
RT: 16.21 min Scan# 2101
Delta R.T. 0.00 min
Lab File: BE091380.D
Acq: 2 Feb 2016 16:43

Tgt Ion:178 Resp: 68554
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.1 12.4 18.6





#17

Fluoranthene

Concen: 1.17 ng

RT: 18.09 min Scan# 2302

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

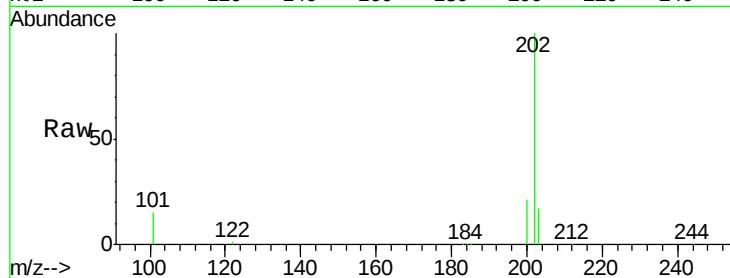
Tot Ion:202 Resp: 72092

Ion Ratio Lower Upper

202 100

101 13.1 11.0 16.4

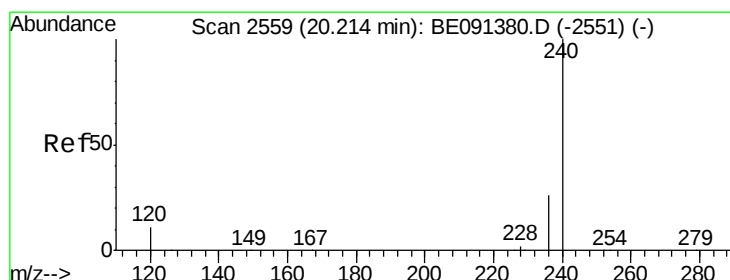
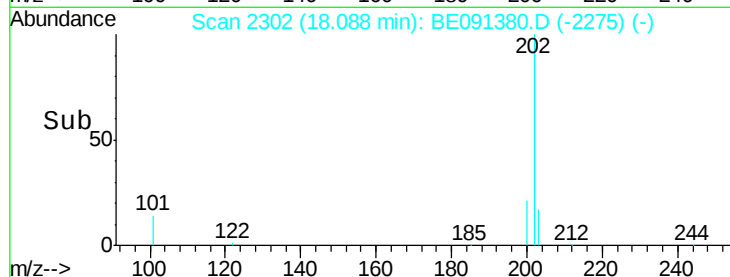
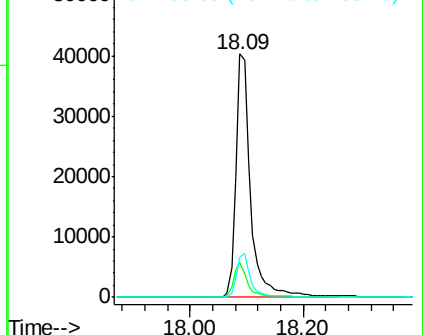
203 17.4 13.9 20.9



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# 2559

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

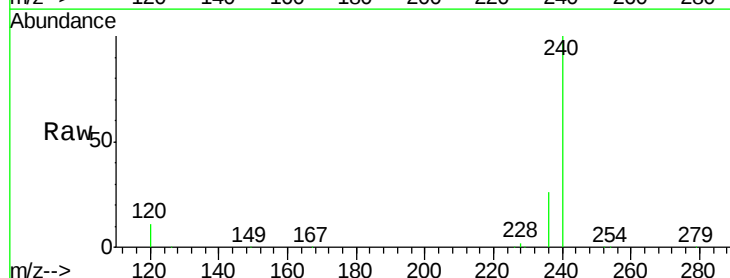
Tgt Ion:240 Resp: 391340

Ion Ratio Lower Upper

240 100

120 11.1 12.6 19.0#

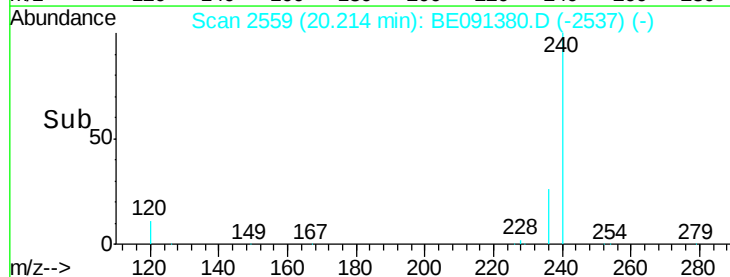
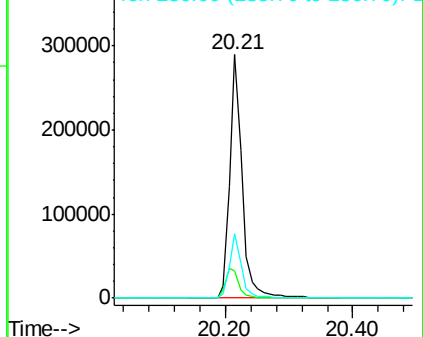
236 26.2 22.7 34.1

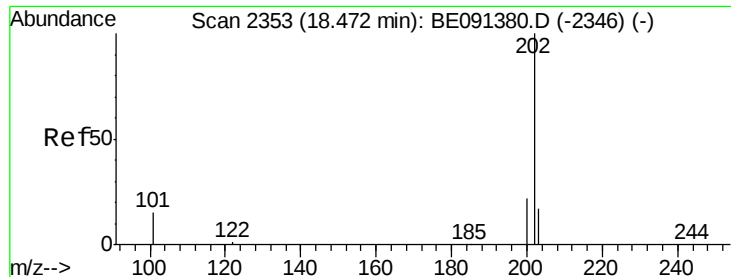


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 1.26 ng

RT: 18.47 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

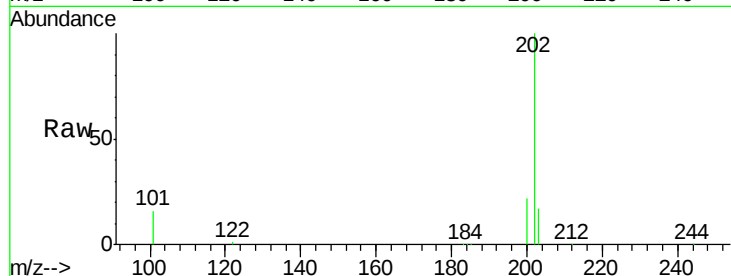
Tot Ion:202 Resp: 75372

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

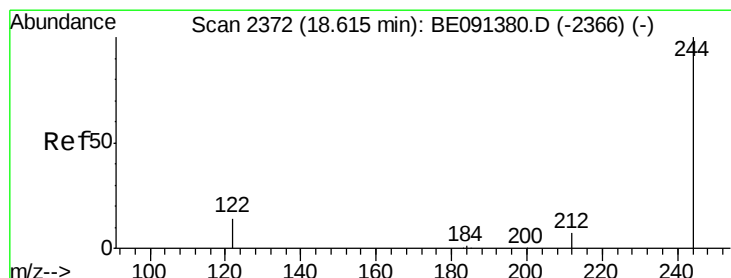
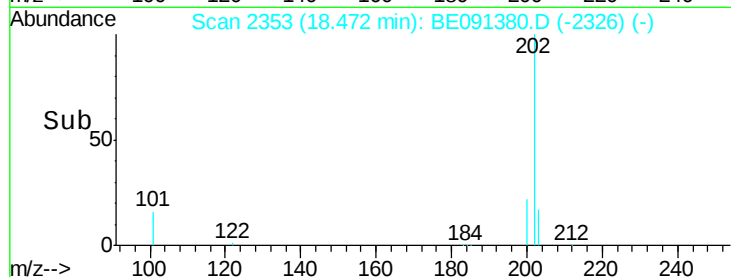
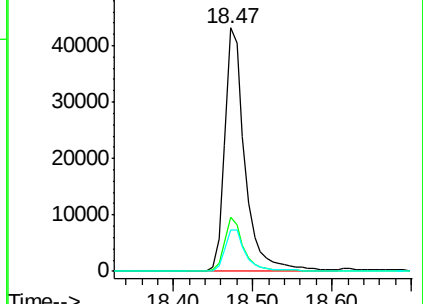
203 17.5 14.2 21.4



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: 1.43 ng

RT: 18.61 min Scan# 2372

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

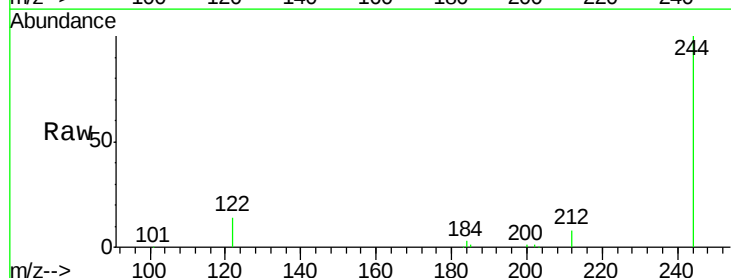
Tgt Ion:244 Resp: 53028

Ion Ratio Lower Upper

244 100

212 7.6 7.0 10.4

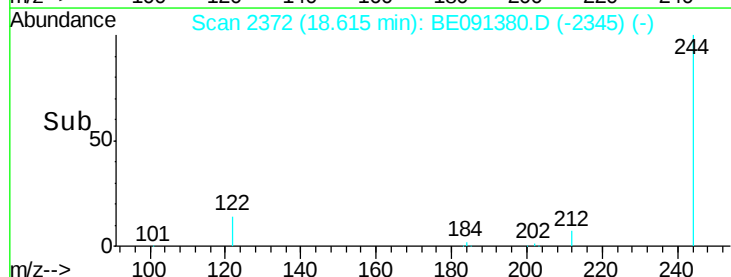
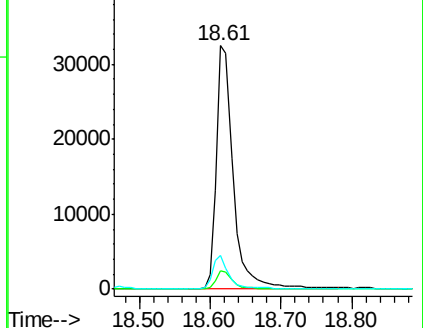
122 13.8 8.5 12.7#

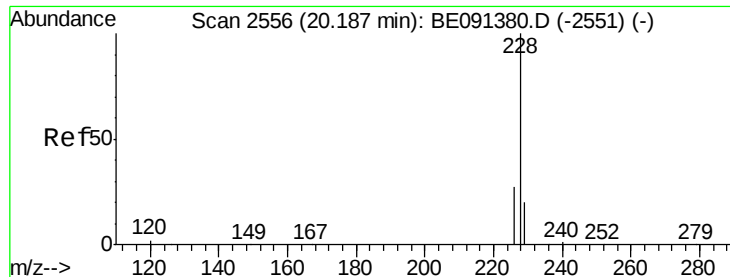


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 1.12 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

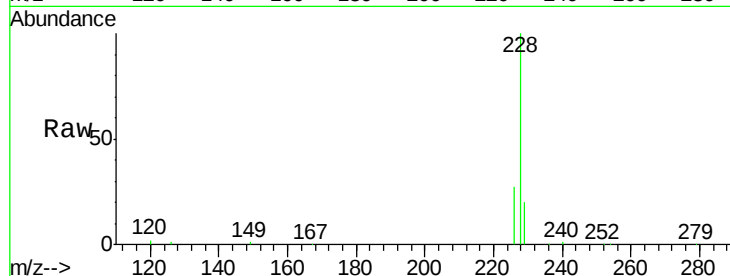
Tot Ion:228 Resp: 61139

Ion Ratio Lower Upper

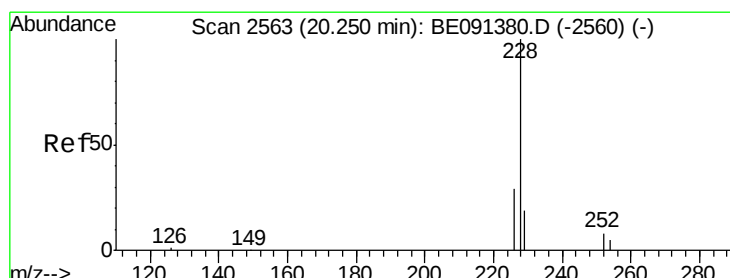
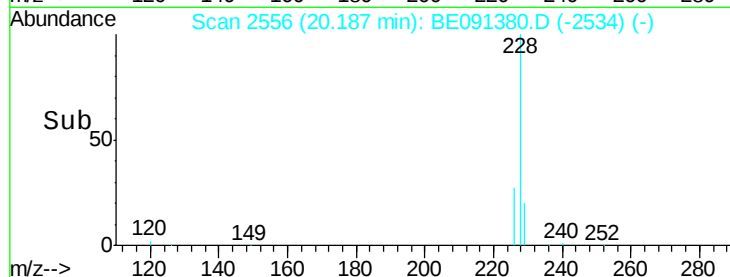
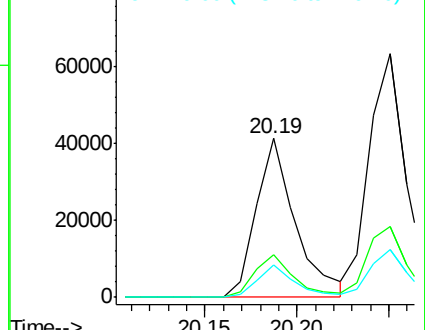
228 100

226 27.1 22.5 33.7

229 20.1 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: 0.99 ng

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

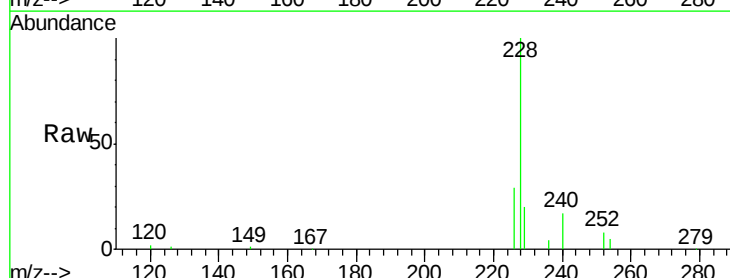
Tgt Ion:228 Resp: 93723

Ion Ratio Lower Upper

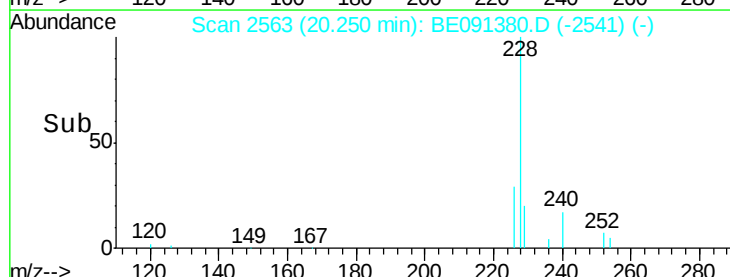
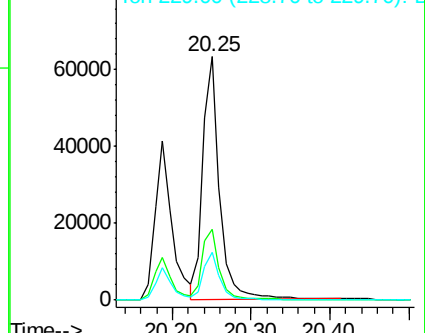
228 100

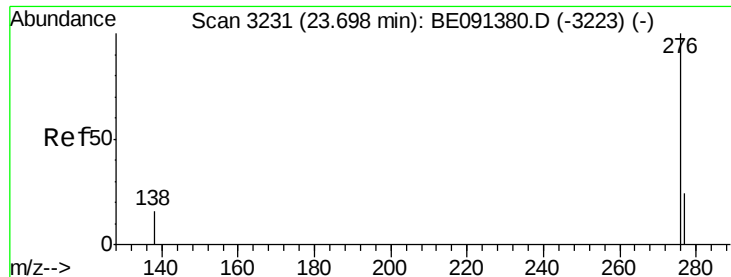
226 29.2 23.7 35.5

229 19.6 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: 1.07 ng

RT: 23.70 min Scan# 3231

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

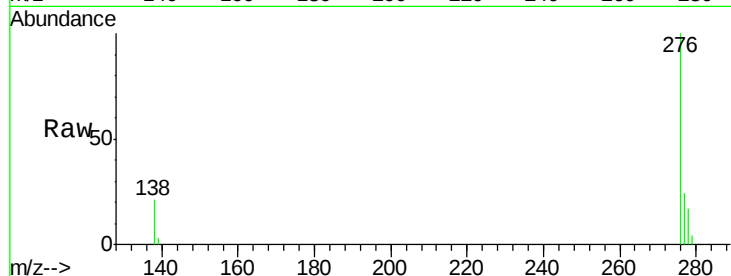
Tot Ion:276 Resp: 66706

Ion Ratio Lower Upper

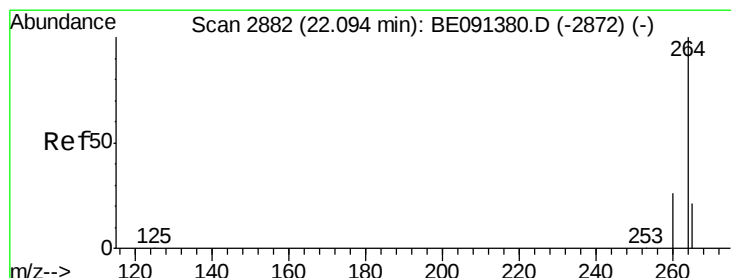
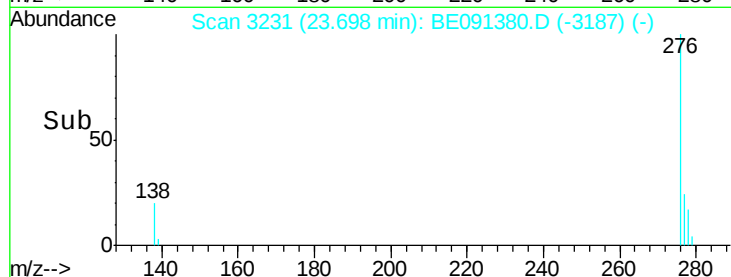
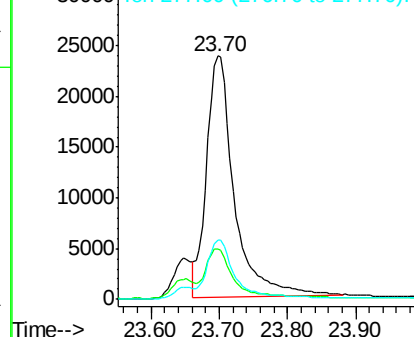
276 100

138 20.8 18.6 27.8

277 23.8 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: 22.09 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

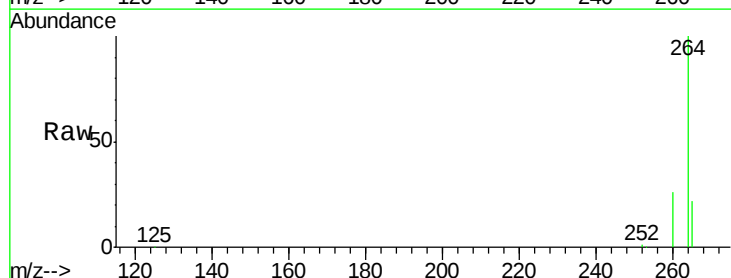
Tgt Ion:264 Resp: 369977

Ion Ratio Lower Upper

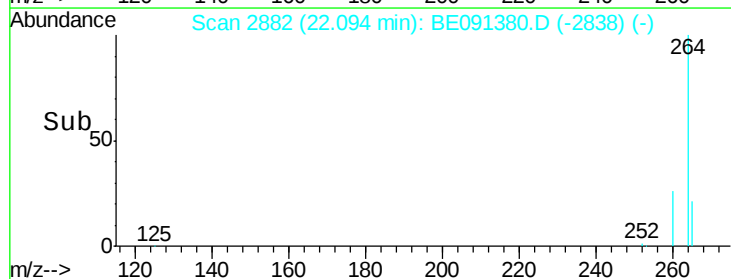
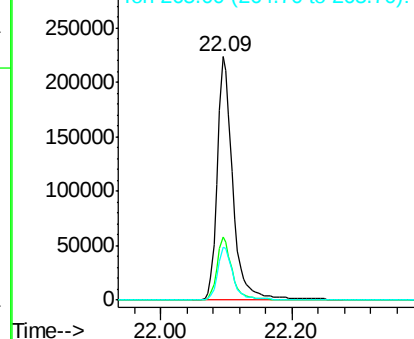
264 100

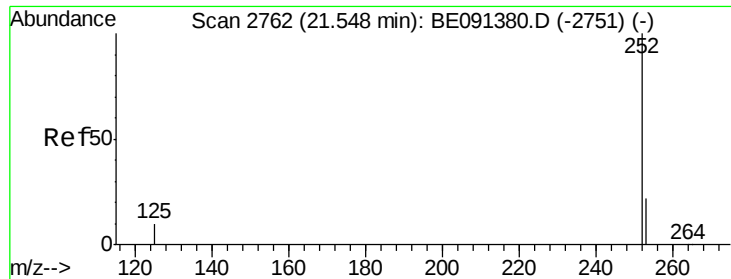
260 25.9 20.4 30.6

265 21.5 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: 1.15 ng

RT: 21.55 min Scan# 2762

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

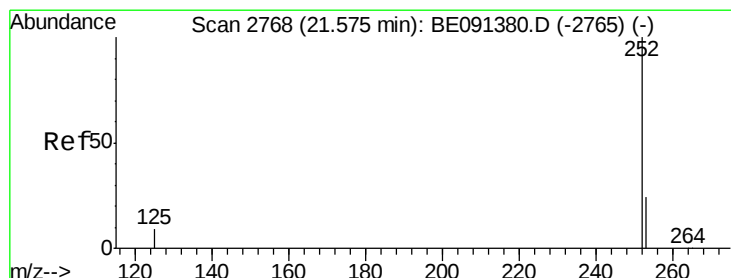
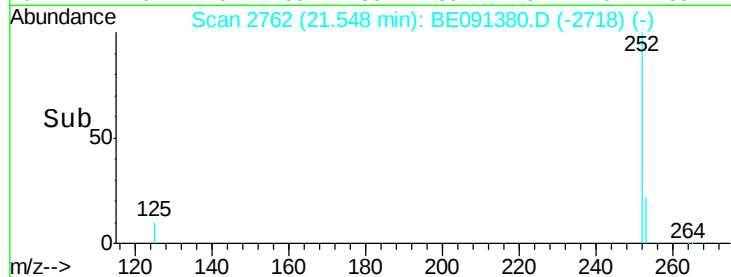
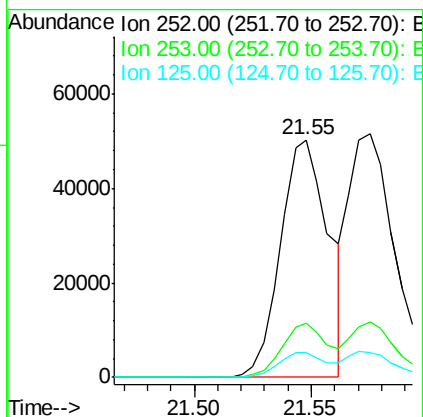
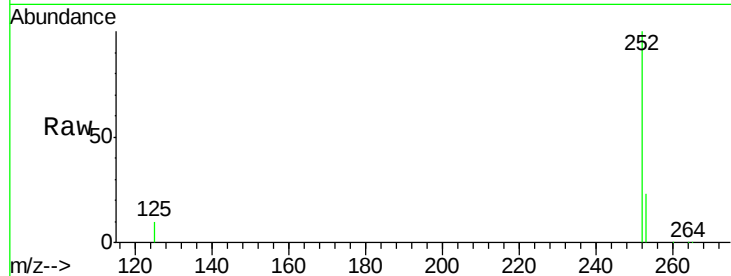
Tot Ion:252 Resp: 71378

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

125 10.4 11.0 16.6#



#26

Benzo(k)fluoranthene

Concen: 1.08 ng

RT: 21.58 min Scan# 2768

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

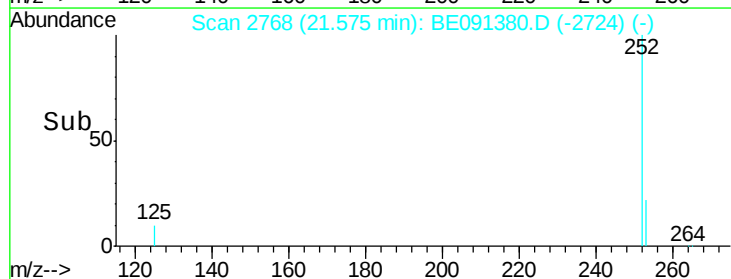
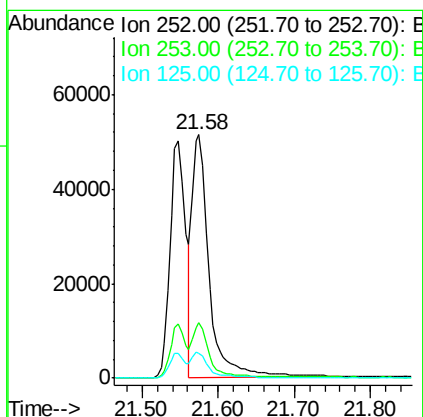
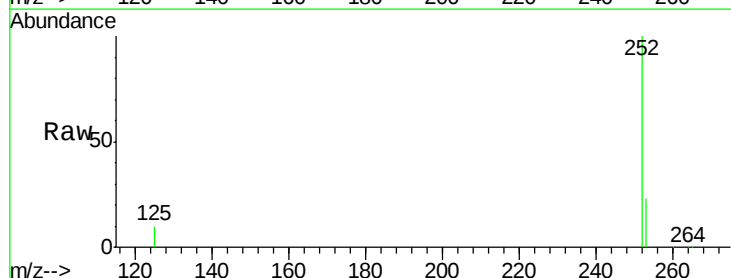
Tgt Ion:252 Resp: 78639

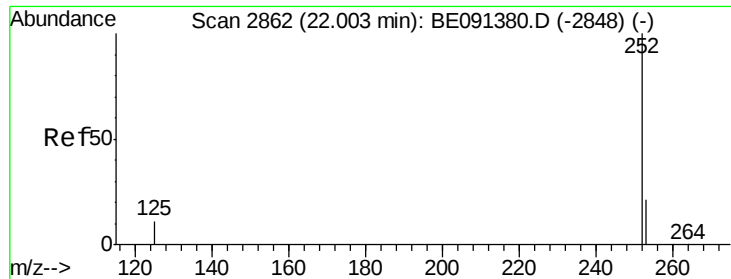
Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

125 10.3 11.3 16.9#





#27

Benzo(a)pyrene

Concen: 0.99 ng

RT: 22.00 min Scan# 2862

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

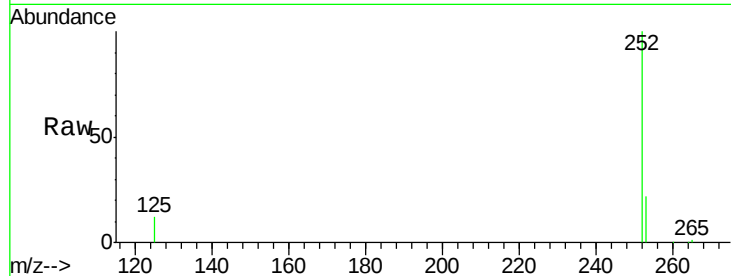
Tot Ion:252 Resp: 62788

Ion Ratio Lower Upper

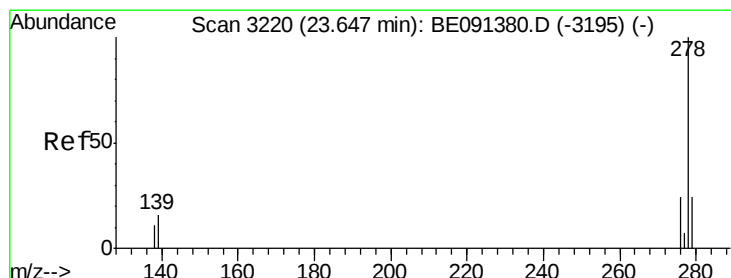
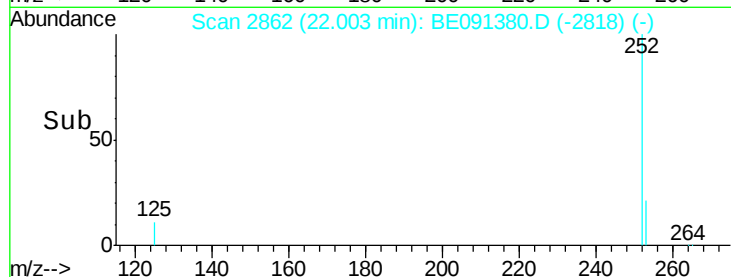
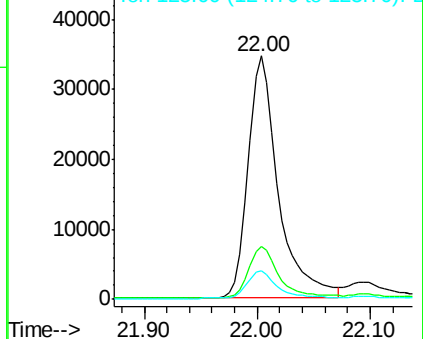
252 100

253 21.9 18.1 27.1

125 11.7 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: 1.18 ng

RT: 23.65 min Scan# 3220

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

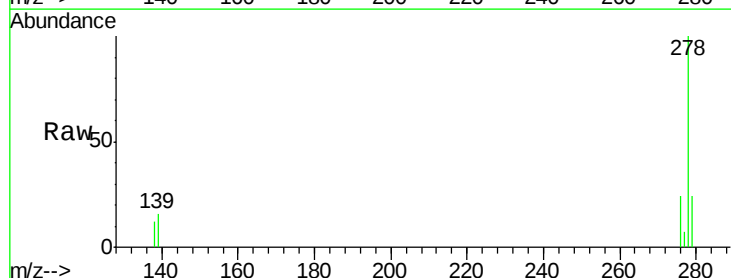
Tgt Ion:278 Resp: 55507

Ion Ratio Lower Upper

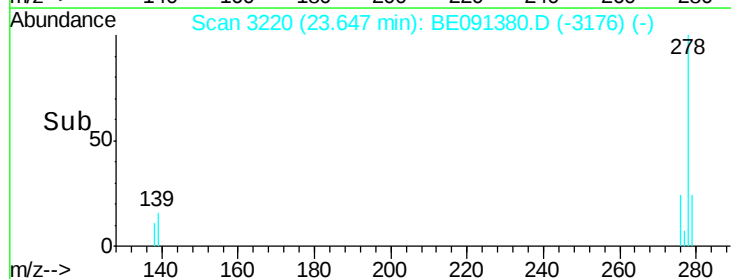
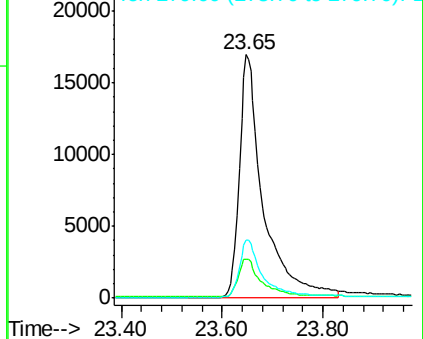
278 100

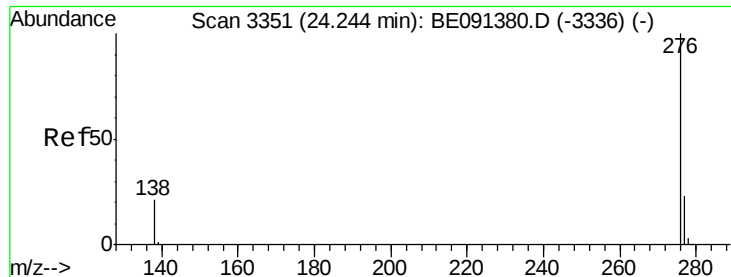
139 16.2 16.3 24.5#

279 24.0 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: 1.17 ng

RT: 24.24 min Scan# 3351

Delta R.T. 0.00 min

Lab File: BE091380.D

Acq: 2 Feb 2016 16:43

Instrument :

BNA_E

ClientSampleId :

SSTDICCC001

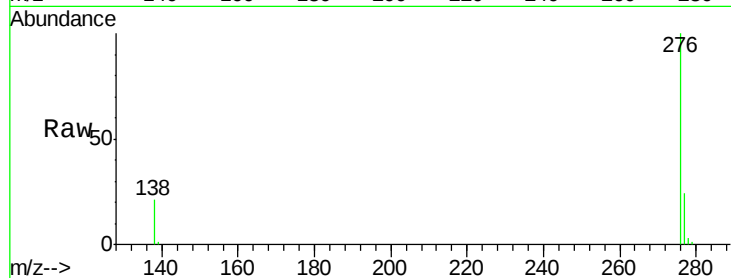
Tot Ion: 276 Resp: 70336

Ion Ratio Lower Upper

276 100

277 23.6 19.8 29.6

138 21.3 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

