

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021916\
 Data File : BE091421.D
 Acq On : 19 Feb 2016 19:32
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Feb 19 22:39:42 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	41544	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	205321	5.00	ng	-0.01
8) Acenaphthene-d10	13.35	164	133904	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	330780	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	380908	5.00	ng	0.00
24) Perylene-d12	22.09	264	391953	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	8932	1.10	ng	-0.03
3) Phenol-d6	6.54	99	13805	1.17	ng	-0.03
5) Nitrobenzene-d5	8.15	82	12907	1.18	ng	-0.02
9) 2,4,6-Tribromophenol	14.89	330	4893	1.05	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	32977	0.95	ng	-0.01
20) Terphenyl-d14	18.61	244	60545	1.07	ng	0.00

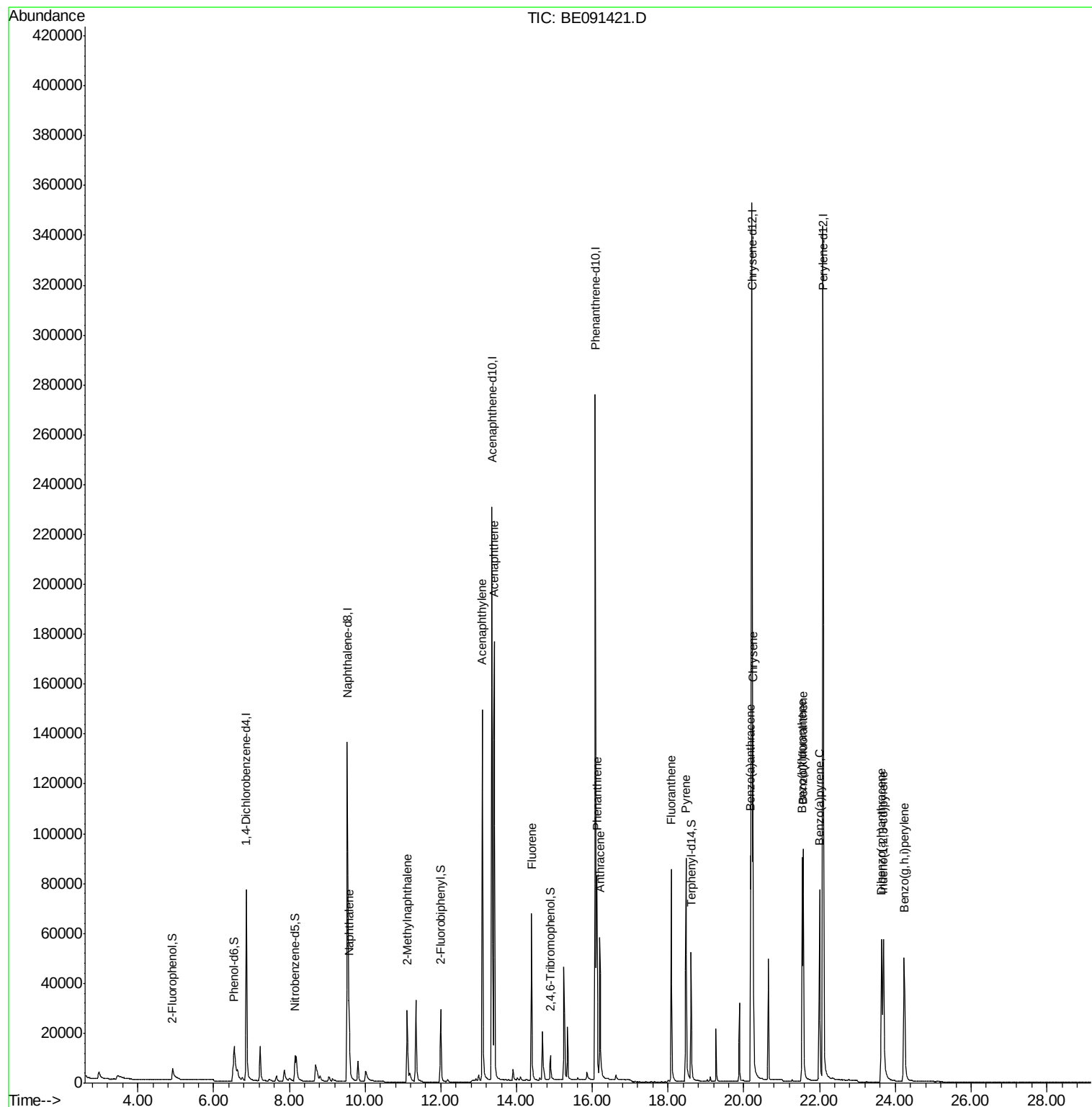
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	43338	0.94	ng	100
7) 2-Methylnaphthalene	11.11	142	26282	1.02	ng	98
11) Acenaphthylene	13.09	152	209158	1.04	ng	100
12) Acenaphthene	13.41	154	33589	0.91	ng	97
13) Fluorene	14.40	166	45404	0.96	ng	100
15) Phenanthrene	16.12	178	80642	0.93	ng	99
16) Anthracene	16.20	178	76184	1.05	ng	99
17) Fluoranthene	18.08	202	87318	1.05	ng	99
19) Pyrene	18.47	202	90071	1.09	ng	100
21) Benzo(a)anthracene	20.18	228	83456	1.12	ng	98
22) Chrysene	20.24	228	100452	1.01	ng	98
23) Indeno(1,2,3-cd)pyrene	23.69	276	87825	1.14	ng	100
25) Benzo(b)fluoranthene	21.54	252	84679	0.99	ng	97
26) Benzo(k)fluoranthene	21.57	252	103325	1.07	ng	99
27) Benzo(a)pyrene	22.00	252	87955	1.11	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	82533	1.13	ng	99
29) Benzo(g,h,i)perylene	24.24	276	90918	1.05	ng	98

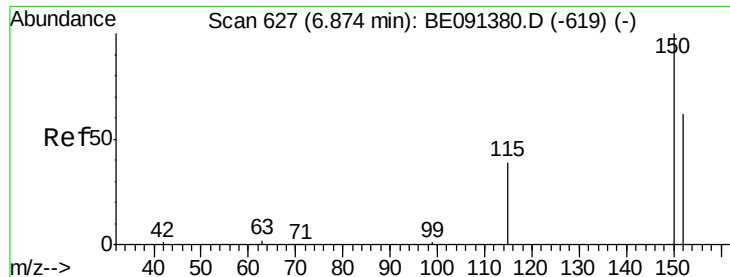
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 626

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

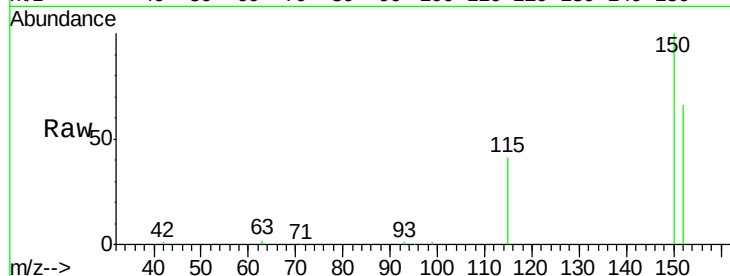
Tot Ion:152 Resp: 41544

Ion Ratio Lower Upper

152 100

150 151.1 128.9 193.3

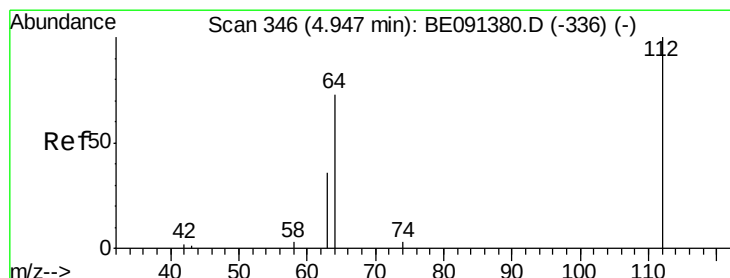
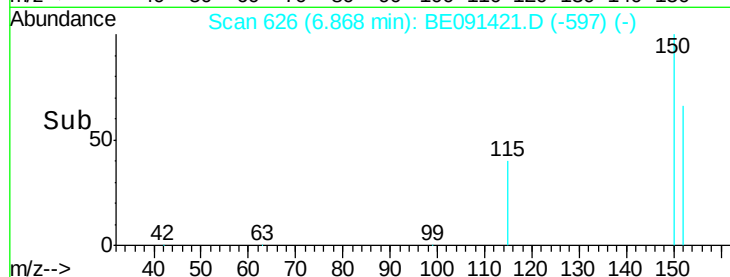
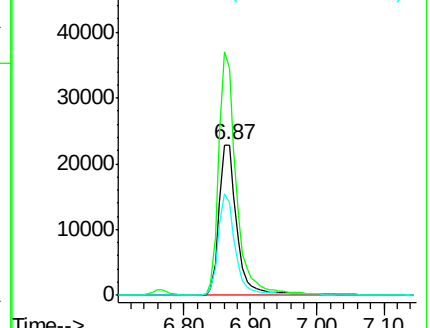
115 61.3 50.9 76.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

2-Fluorophenol

Concen: 1.10 ng

RT: 4.92 min Scan# 342

Delta R.T. -0.03 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

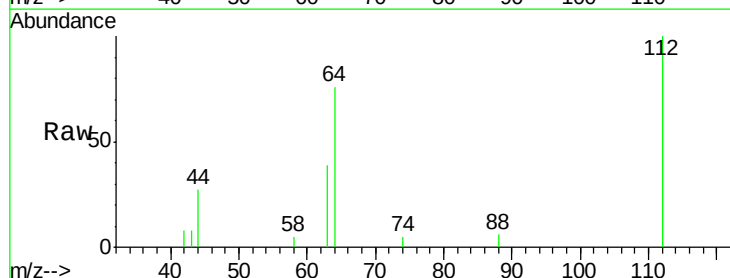
Tgt Ion:112 Resp: 8932

Ion Ratio Lower Upper

112 100

64 74.1 60.5 90.7

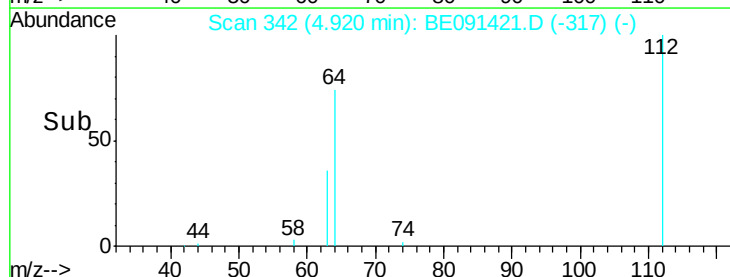
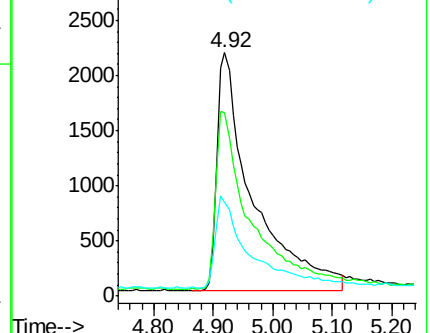
63 38.2 29.8 44.8

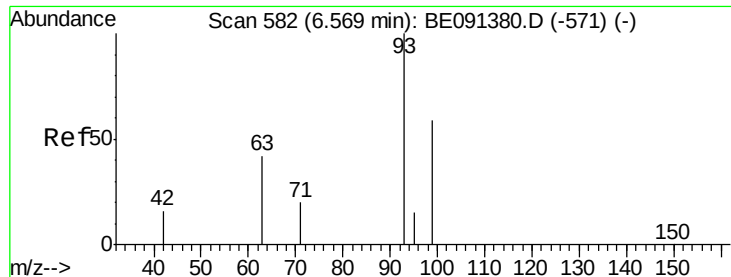


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.17 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

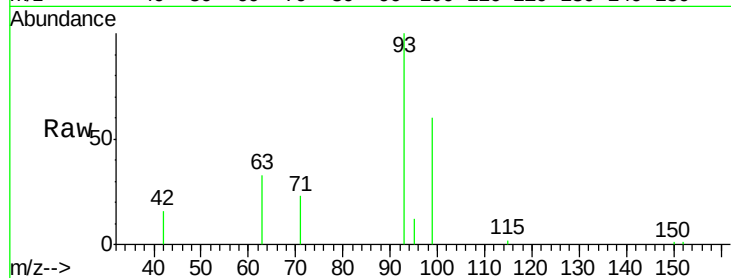
Tot Ion: 99 Resp: 13805

Ion Ratio Lower Upper

99 100

42 17.5 13.3 19.9

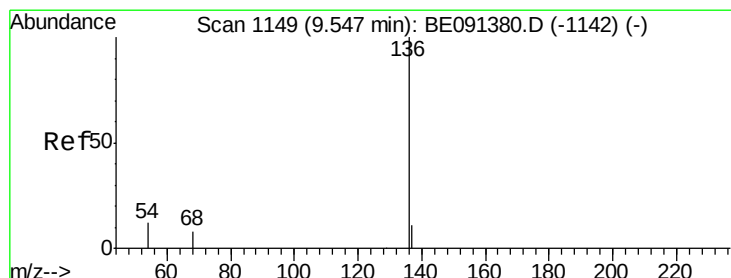
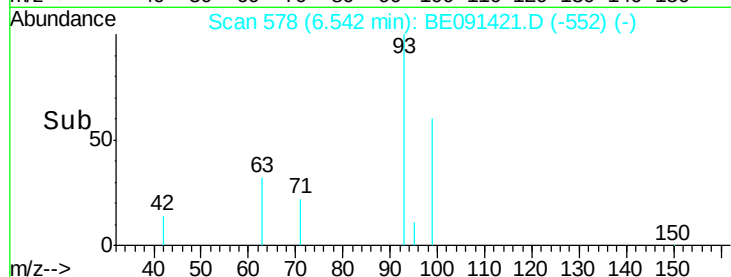
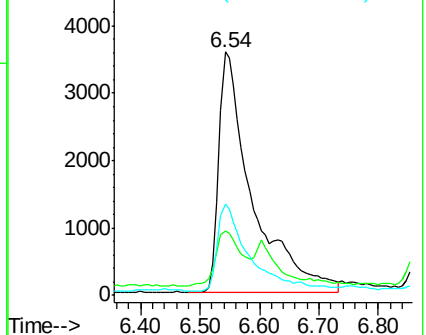
71 34.5 25.6 38.4



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Tgt Ion: 136 Resp: 205321

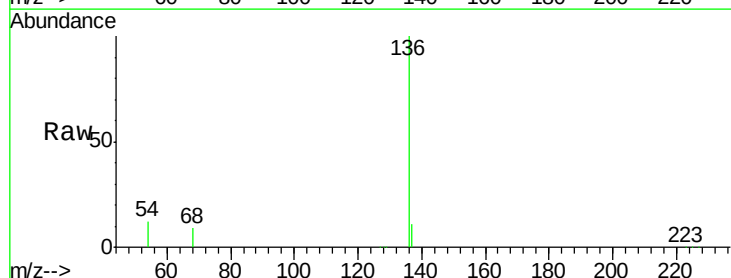
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 12.3 9.3 13.9

68 8.7 6.7 10.1

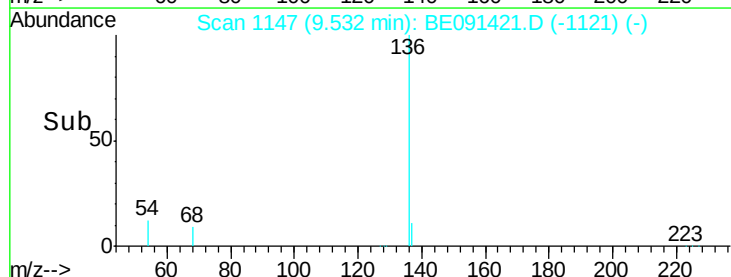
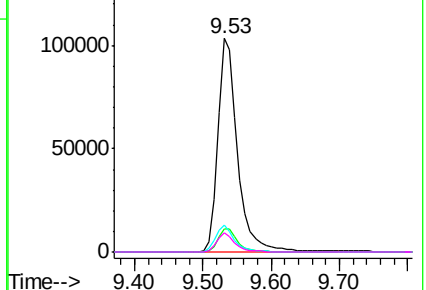


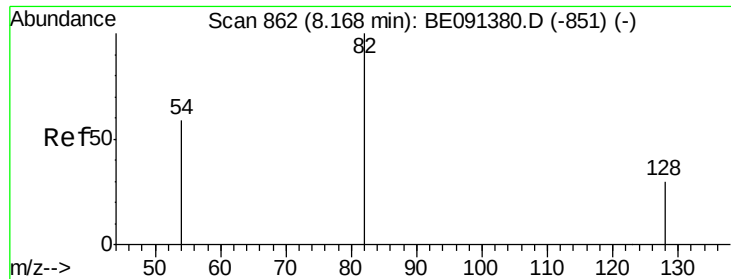
Abundance Ion 136.00 (135.70 to 136.70): E

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





#5

Nitrobenzene-d5

Concen: 1.18 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.02 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

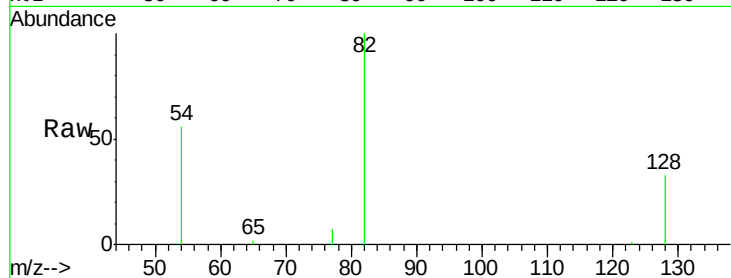
Tot Ion: 82 Resp: 12907

Ion Ratio Lower Upper

82 100

128 33.3 25.0 37.4

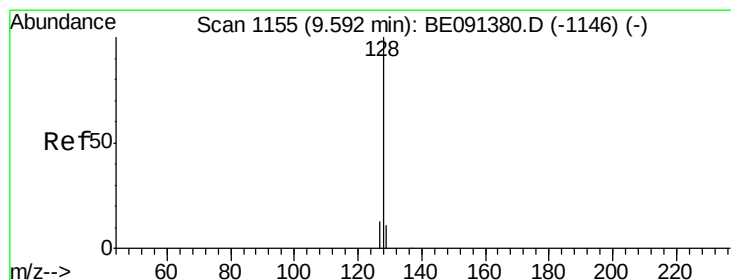
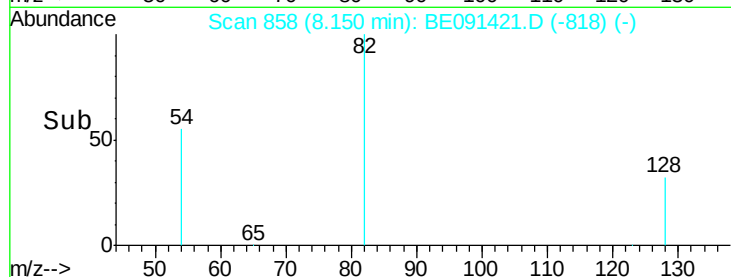
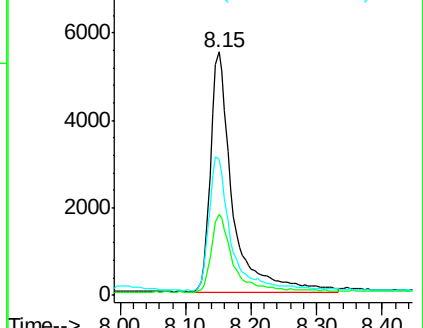
54 55.8 48.1 72.1



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) (-)



#6

Naphthalene

Concen: 0.94 ng

RT: 9.58 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

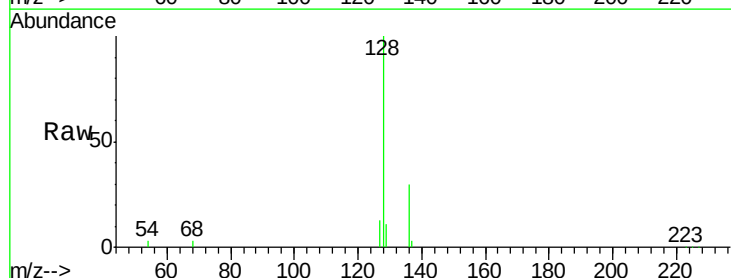
Tgt Ion: 128 Resp: 43338

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

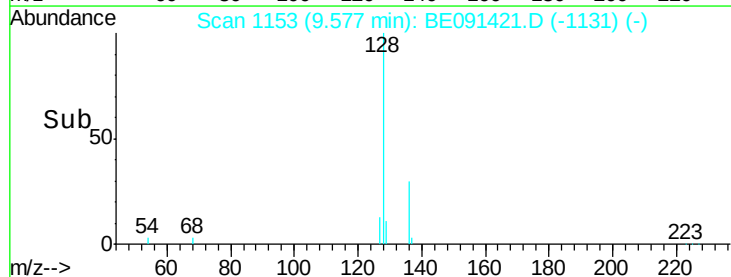
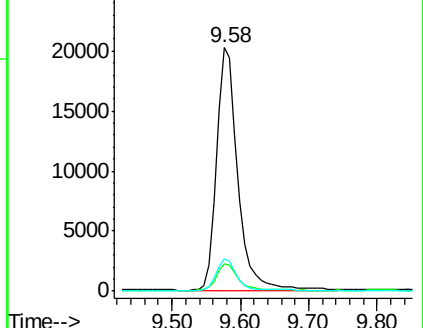
127 13.1 10.5 15.7

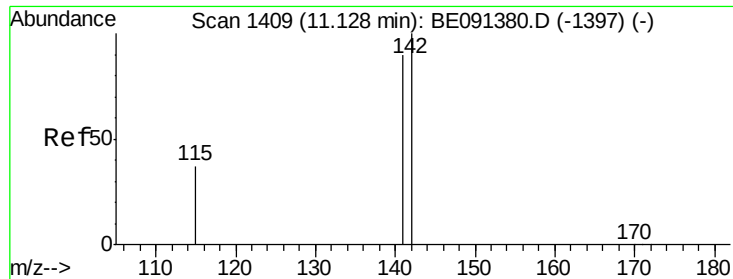


Abundance Ion 128.00 (127.70 to 128.70): BE091380.D (-1146) (-)

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

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





#7

2-Methylnaphthalene

Concen: 1.02 ng

RT: 11.11 min Scan# 1406

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

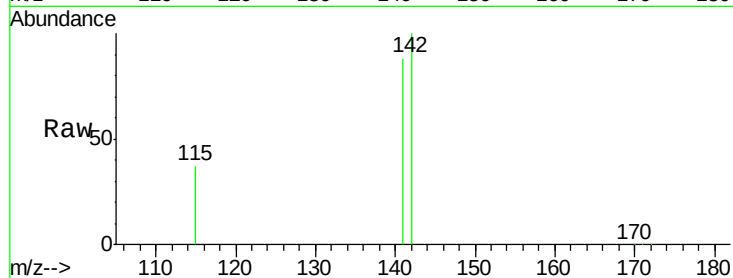
Tot Ion:142 Resp: 26282

Ion Ratio Lower Upper

142 100

141 88.4 72.3 108.5

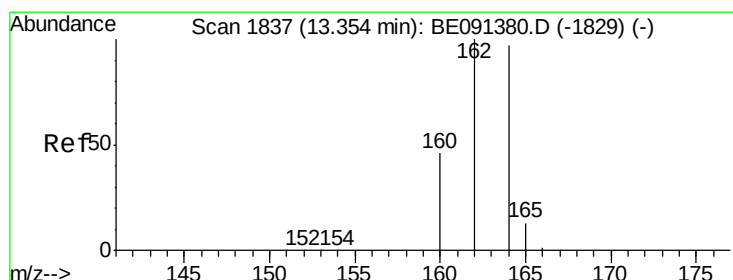
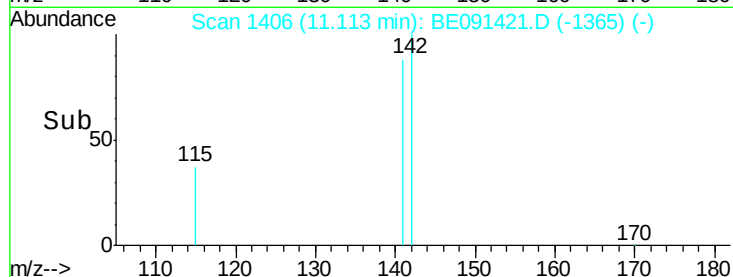
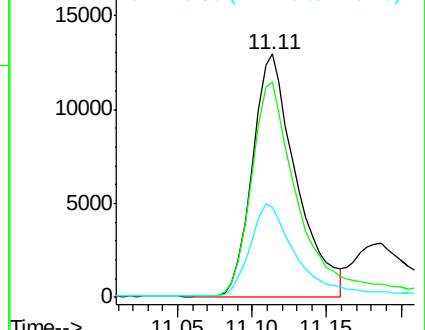
115 37.1 30.5 45.7



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: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

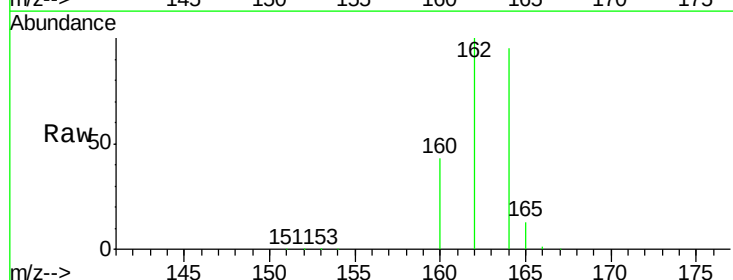
Tgt Ion:164 Resp: 133904

Ion Ratio Lower Upper

164 100

162 104.9 82.2 123.2

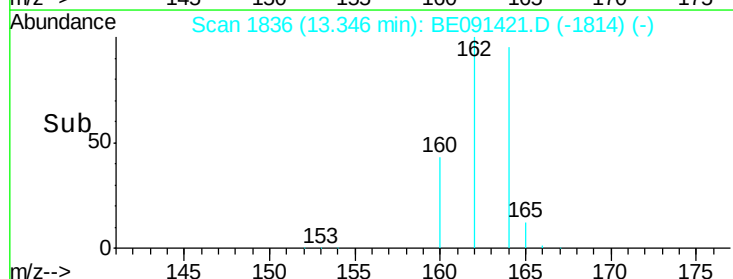
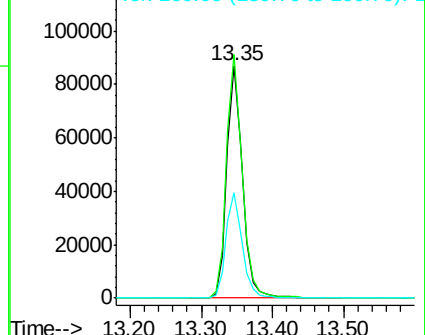
160 45.4 37.8 56.8

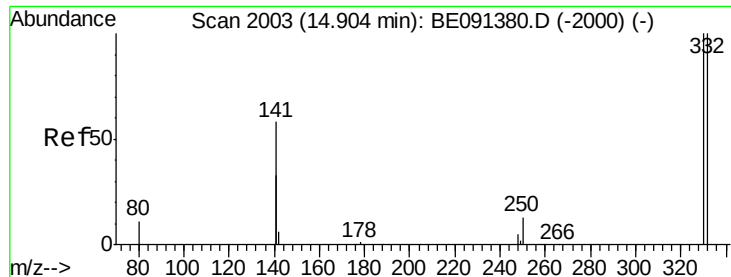


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

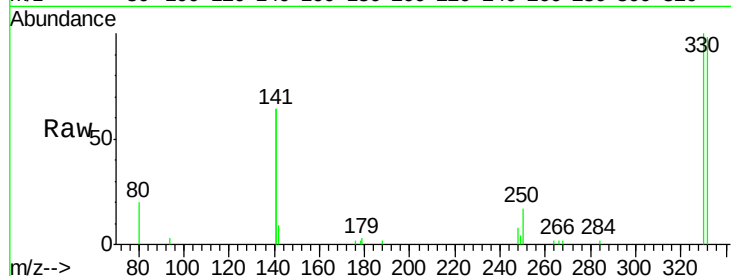




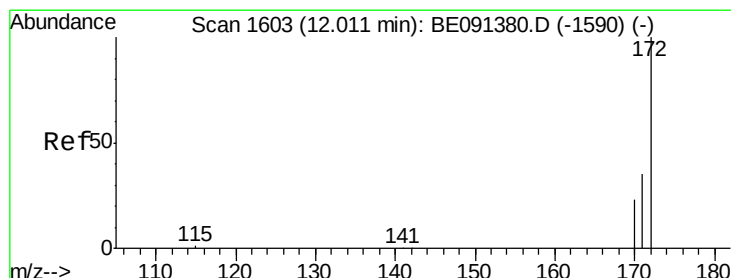
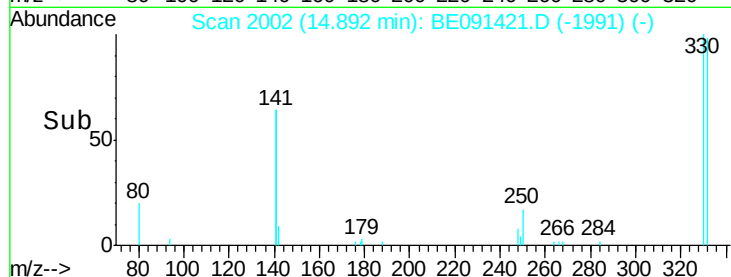
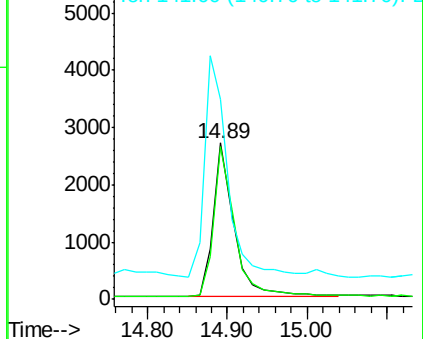
#9
 2,4,6-Tribromophenol
 Concen: 1.05 ng
 RT: 14.89 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BE091421.D
 Acq: 19 Feb 2016 19:32

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tot Ion:330 Resp: 4893
 Ion Ratio Lower Upper
 330 100
 332 98.6 78.8 118.2
 141 153.7 105.1 157.7

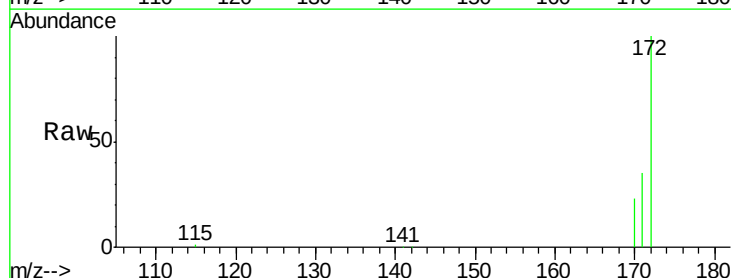


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

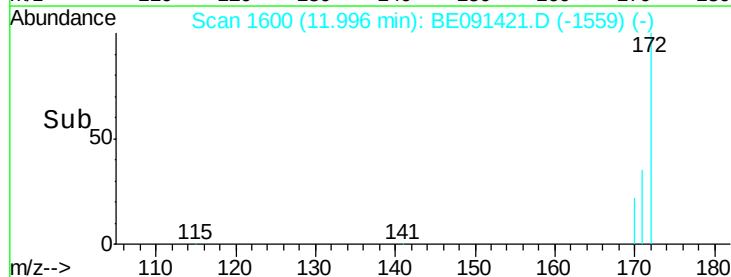
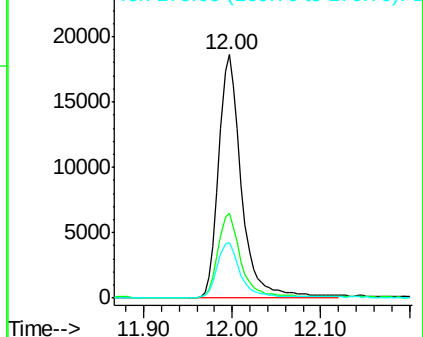


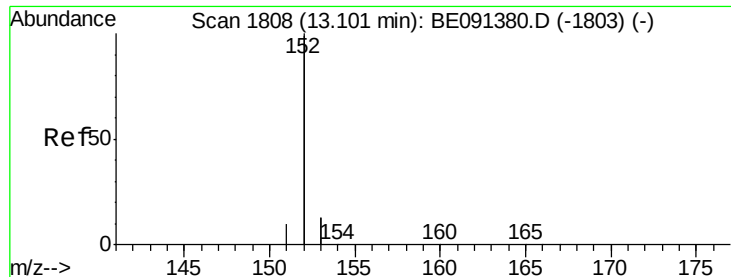
#10
 2-Fluorobiphenyl
 Concen: 0.95 ng
 RT: 12.00 min Scan# 1600
 Delta R.T. -0.01 min
 Lab File: BE091421.D
 Acq: 19 Feb 2016 19:32

Tgt Ion:172 Resp: 32977
 Ion Ratio Lower Upper
 172 100
 171 34.9 27.8 41.8
 170 22.7 18.6 28.0



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: 1.04 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

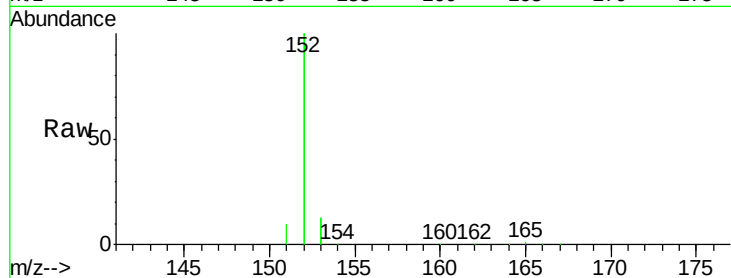
Tot Ion:152 Resp: 209158

Ion Ratio Lower Upper

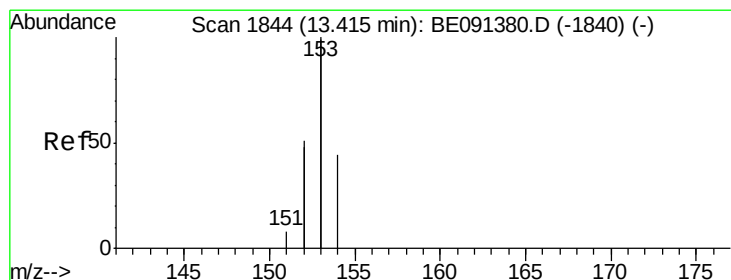
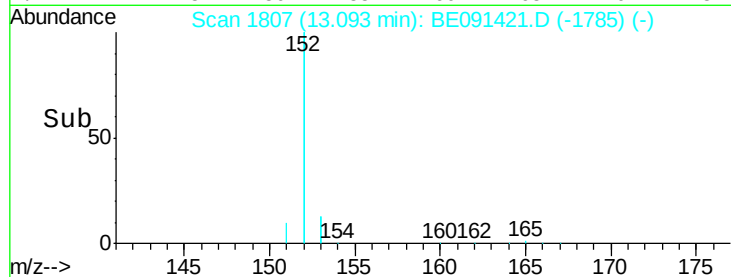
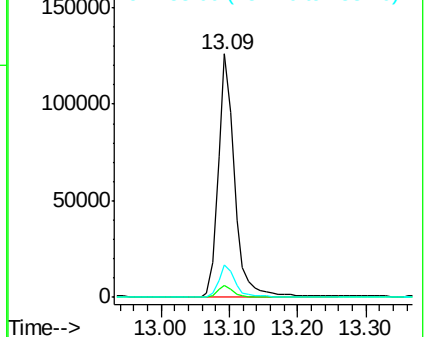
152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



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: 0.91 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

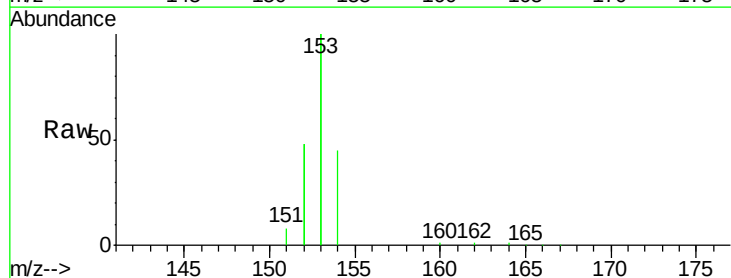
Tgt Ion:154 Resp: 33589

Ion Ratio Lower Upper

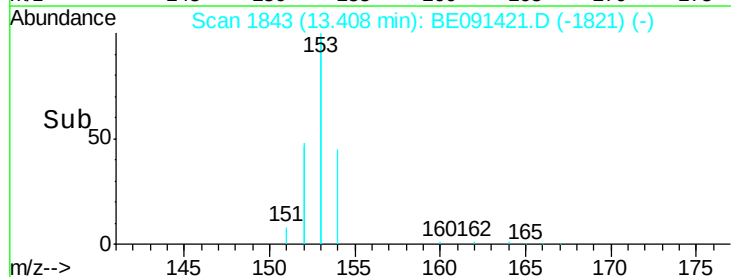
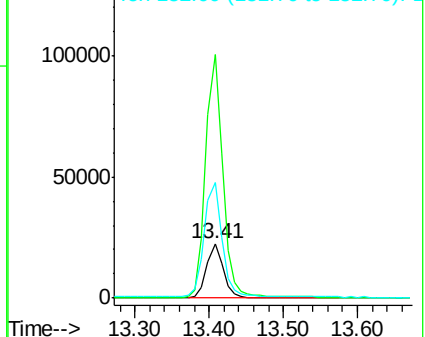
154 100

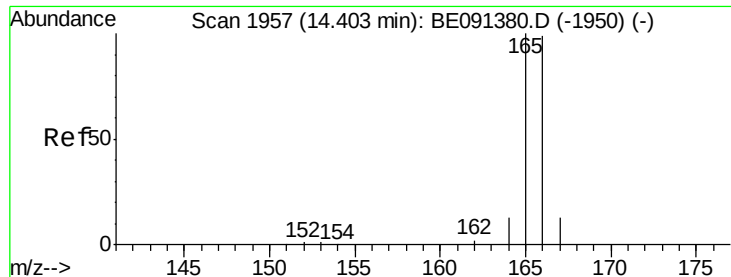
153 463.1 369.8 554.8

152 228.5 194.4 291.6



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: 0.96 ng

RT: 14.40 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

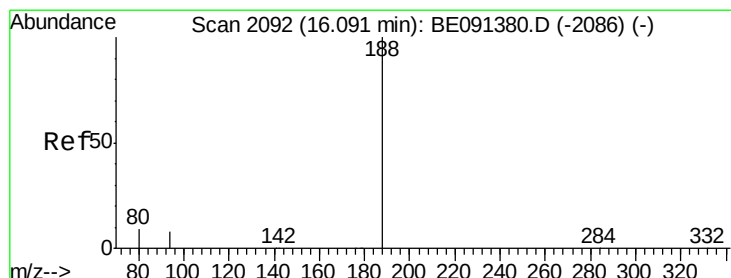
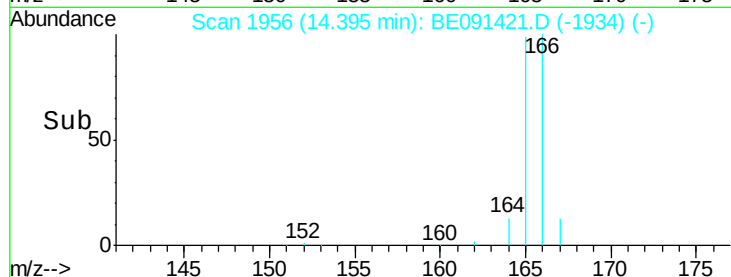
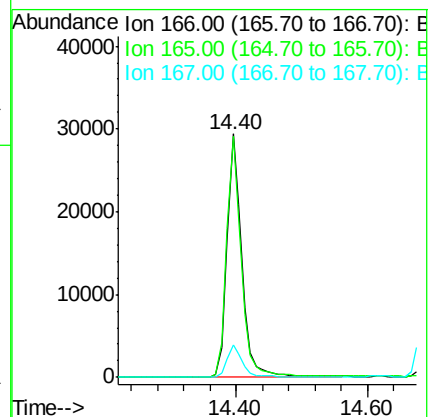
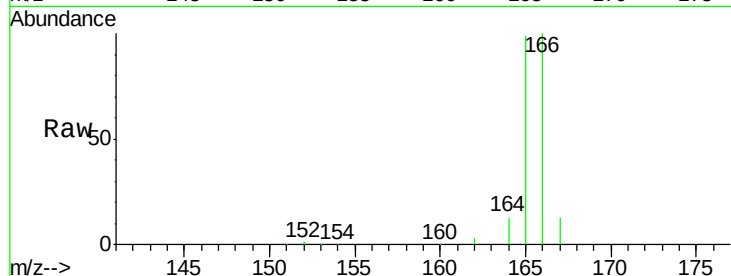
Tot Ion:166 Resp: 45404

Ion Ratio Lower Upper

166 100

165 99.0 79.3 118.9

167 13.6 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

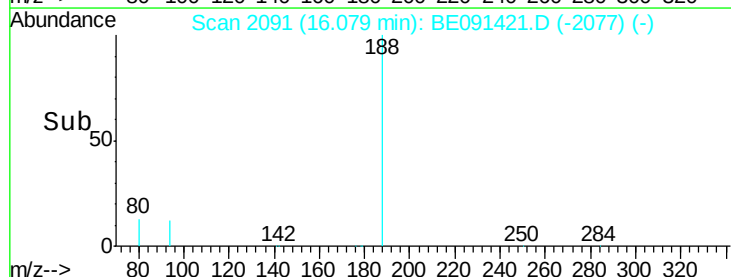
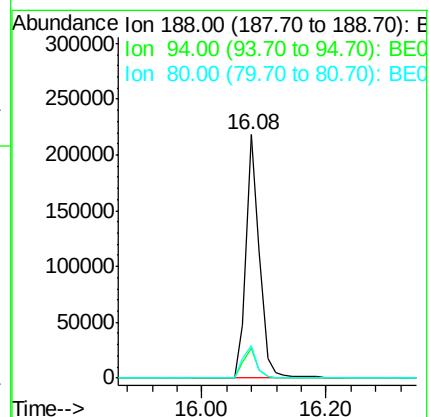
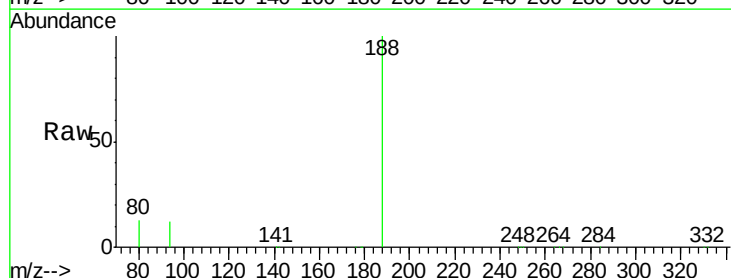
Tgt Ion:188 Resp: 330780

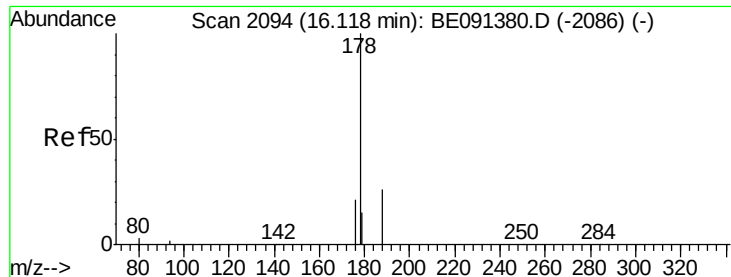
Ion Ratio Lower Upper

188 100

94 12.3 6.6 10.0#

80 13.3 7.0 10.6#





#15

Phenanthrene

Concen: 0.93 ng

RT: 16.12 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

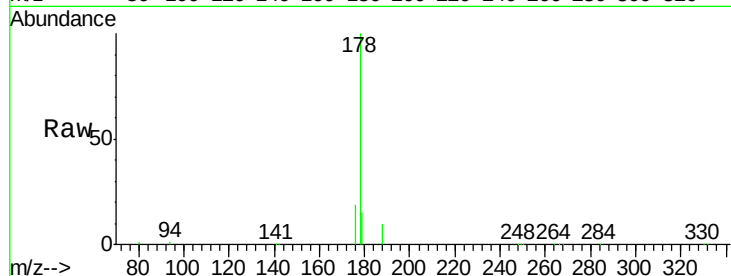
Tot Ion:178 Resp: 80642

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

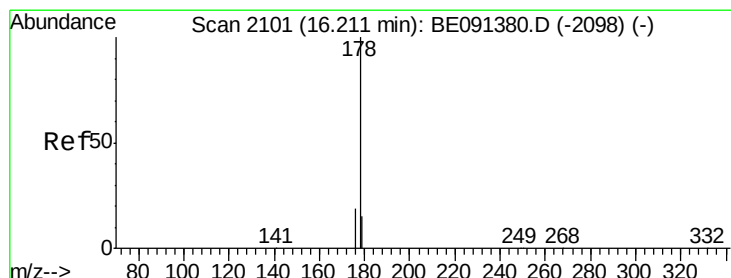
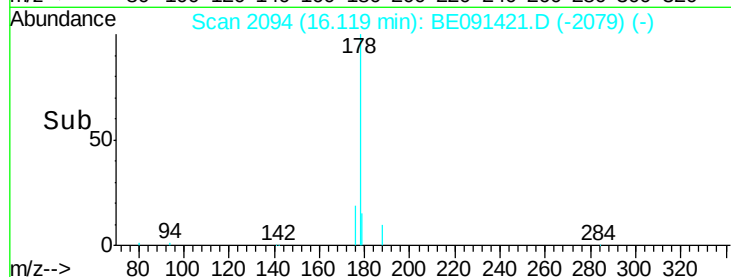
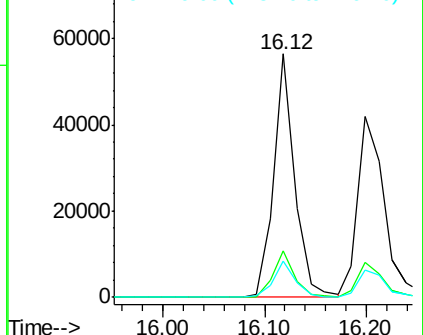
179 15.4 12.7 19.1



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: 1.05 ng

RT: 16.20 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

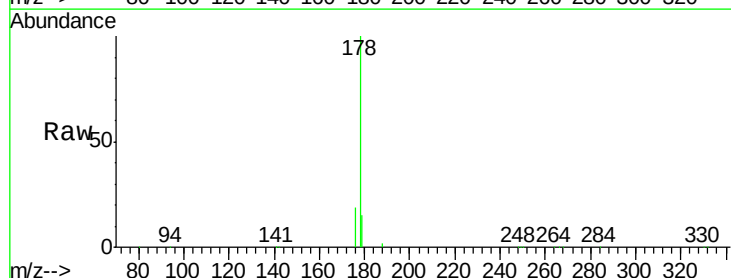
Tgt Ion:178 Resp: 76184

Ion Ratio Lower Upper

178 100

176 18.3 14.8 22.2

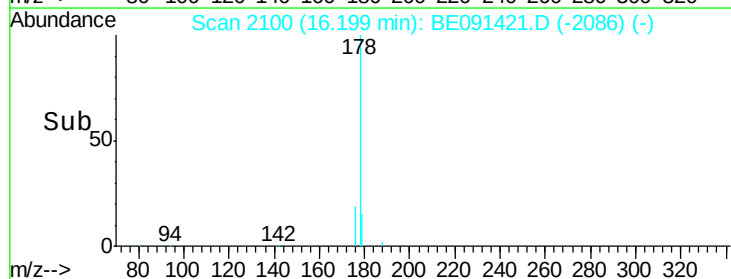
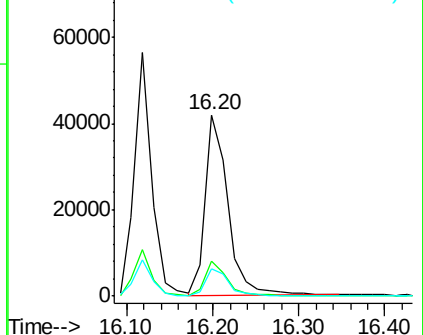
179 15.6 12.1 18.1

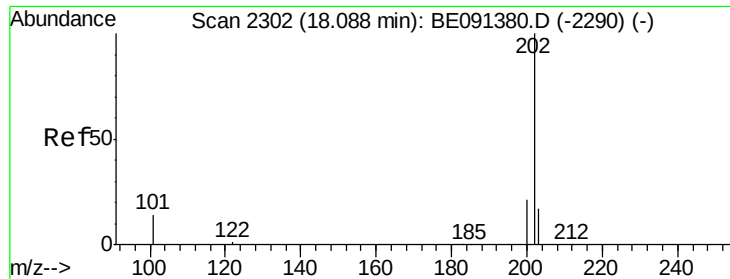


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 1.05 ng

RT: 18.08 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

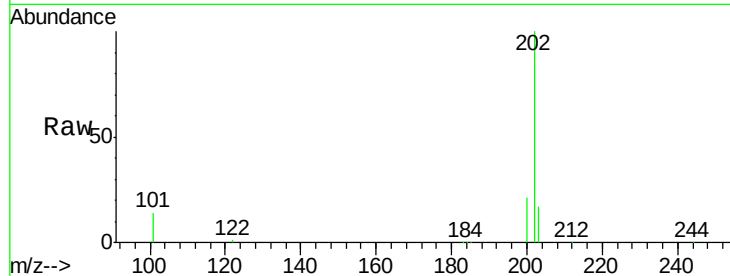
Tot Ion:202 Resp: 87318

Ion Ratio Lower Upper

202 100

101 13.7 10.5 15.7

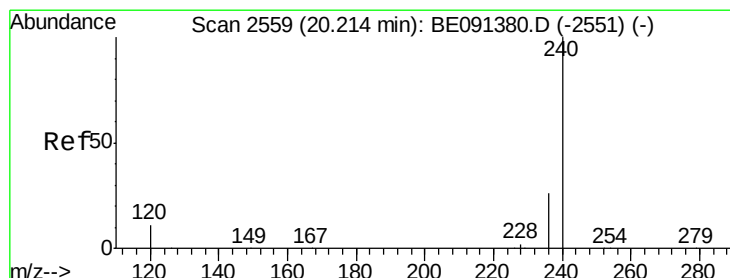
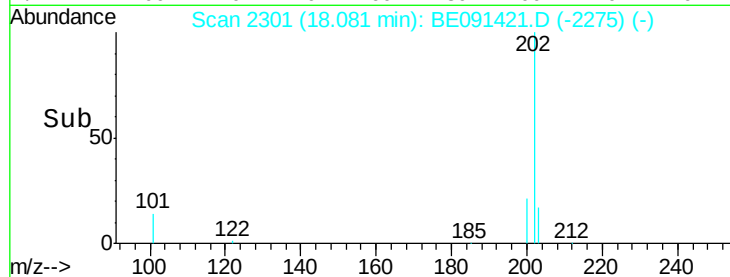
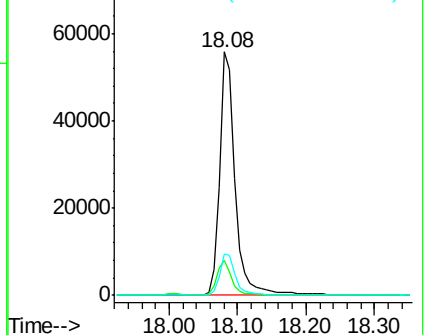
203 17.3 13.9 20.9



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# 2559

Delta R.T. 0.00 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

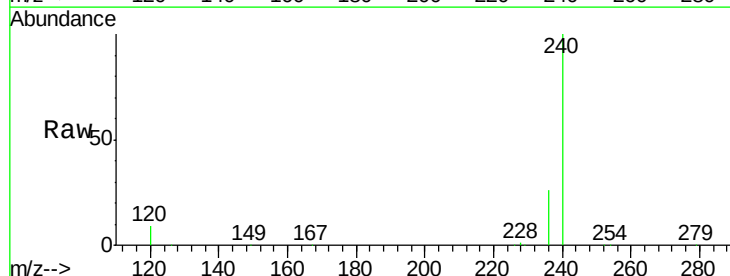
Tgt Ion:240 Resp: 380908

Ion Ratio Lower Upper

240 100

120 8.8 8.9 13.3#

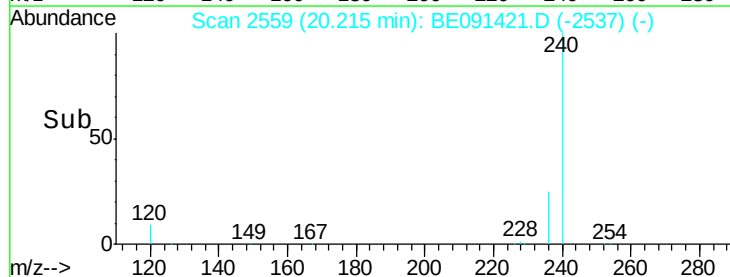
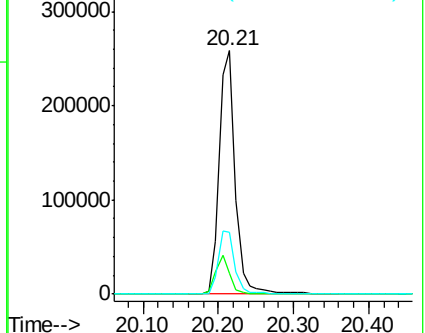
236 25.5 21.0 31.4

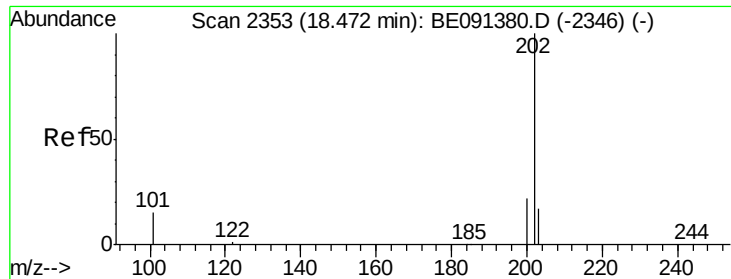


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 1.09 ng

RT: 18.47 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

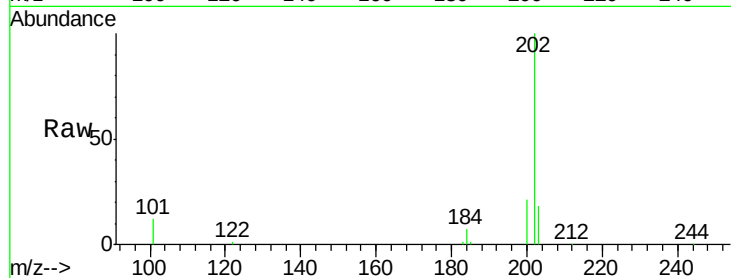
Tot Ion:202 Resp: 90071

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

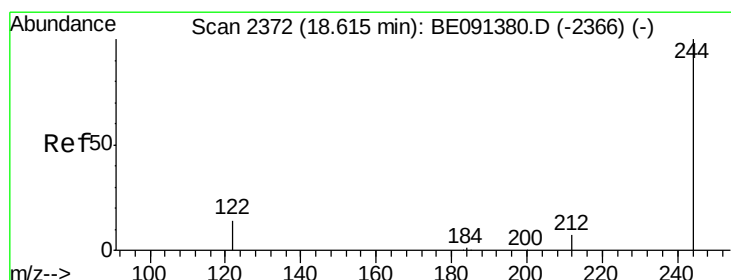
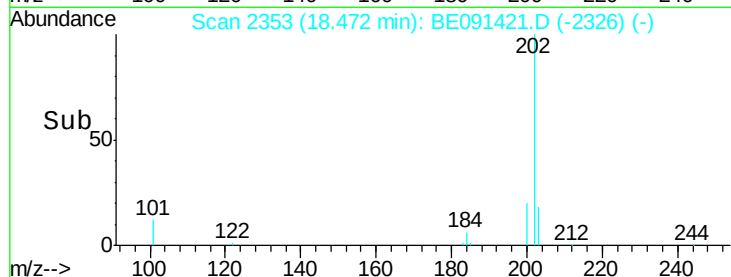
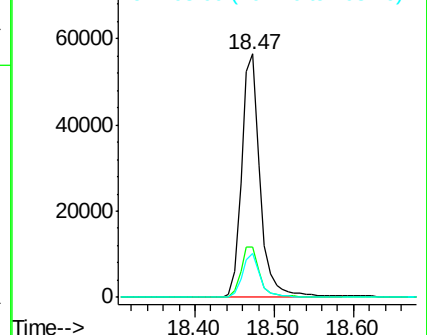
203 17.4 14.0 21.0



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: 1.07 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

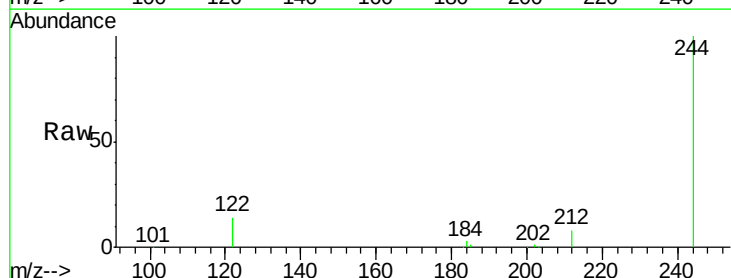
Tgt Ion:244 Resp: 60545

Ion Ratio Lower Upper

244 100

212 7.8 6.1 9.1

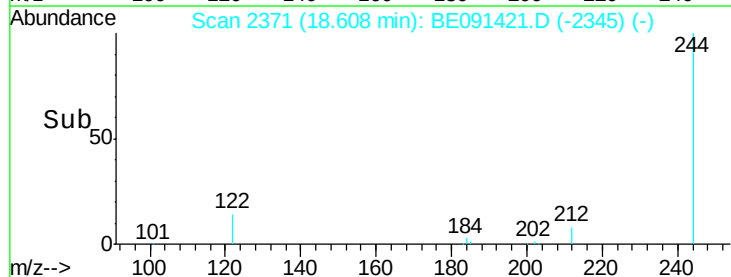
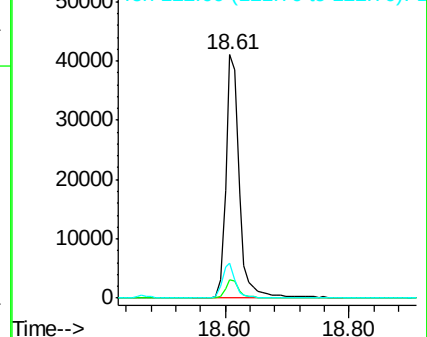
122 14.2 11.0 16.6

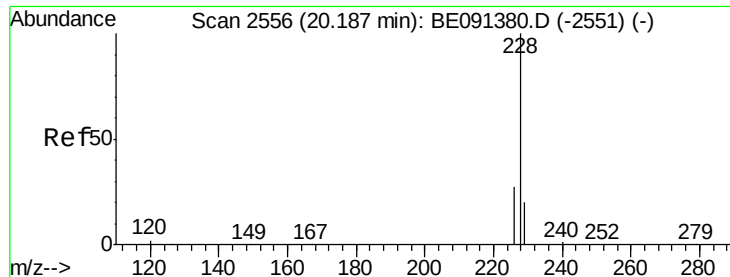


Abundance Ion 244.00 (243.70 to 244.70): E

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: 20.18 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

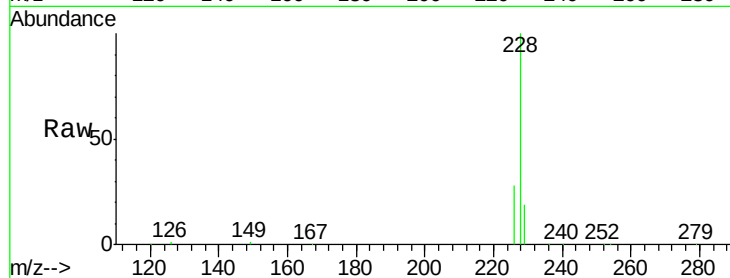
Tot Ion:228 Resp: 83456

Ion Ratio Lower Upper

228 100

226 27.8 21.7 32.5

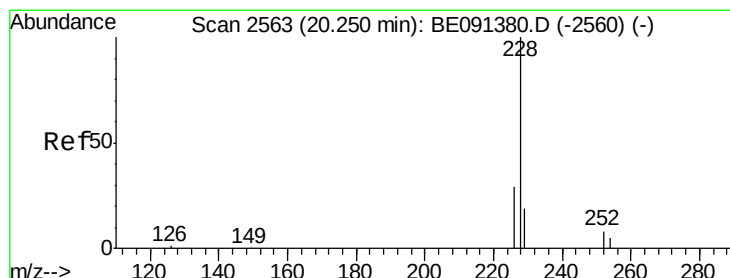
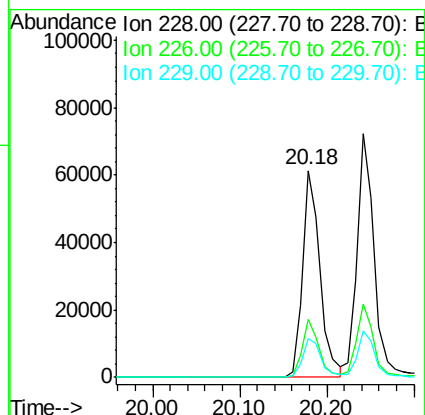
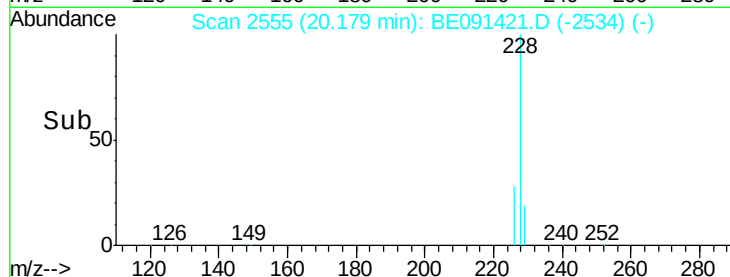
229 18.7 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#22

Chrysene

Concen: 1.01 ng

RT: 20.24 min Scan# 2562

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

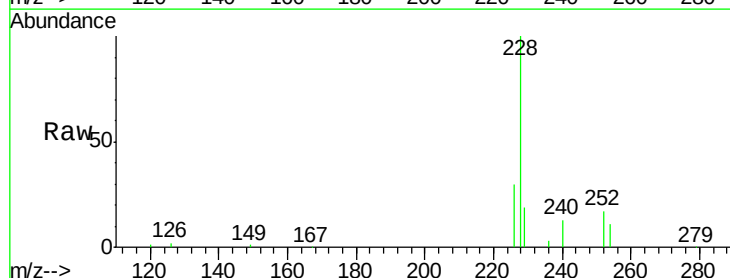
Tgt Ion:228 Resp: 100452

Ion Ratio Lower Upper

228 100

226 30.4 23.4 35.0

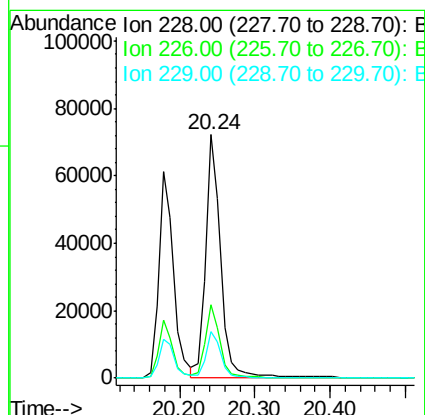
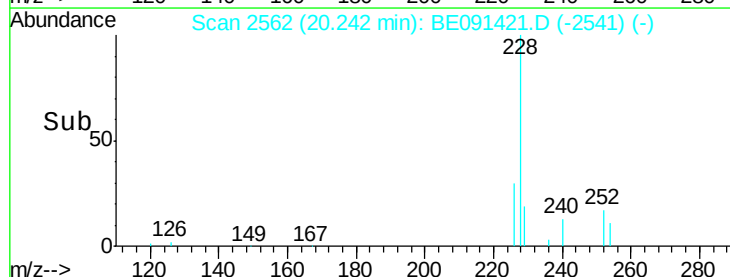
229 19.1 15.7 23.5

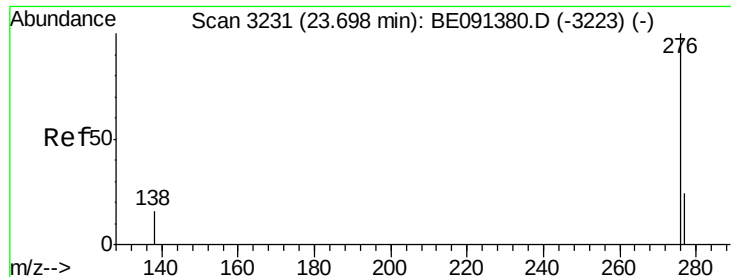


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

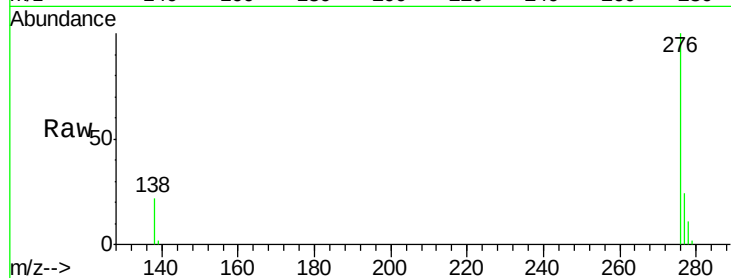




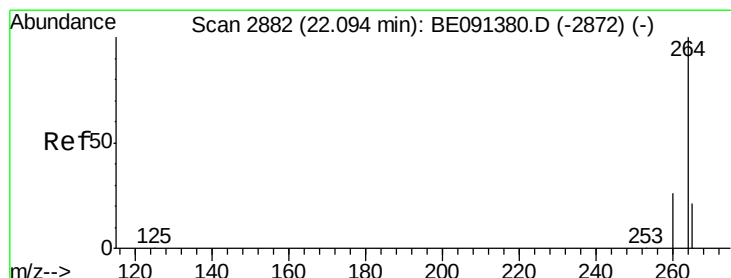
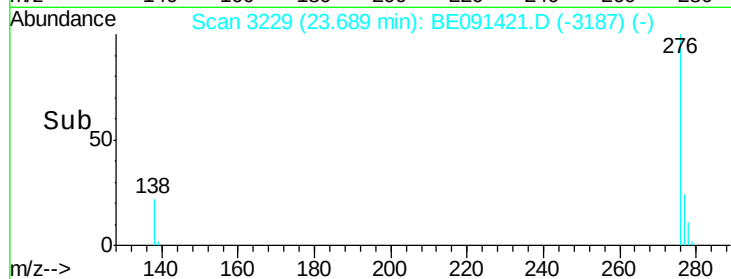
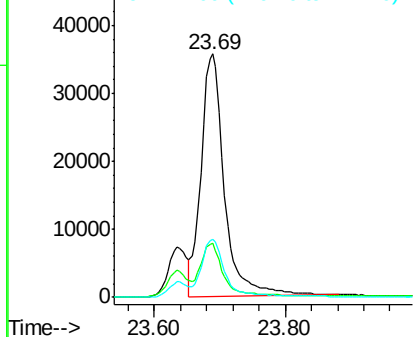
#23
Indeno(1,2,3-cd)pyrene
Concen: 1.14 ng
RT: 23.69 min Scan# 3229
Delta R.T. -0.01 min
Lab File: BE091421.D
Acq: 19 Feb 2016 19:32

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tot Ion:276 Resp: 87825
Ion Ratio Lower Upper
276 100
138 21.0 16.6 25.0
277 23.6 19.0 28.6

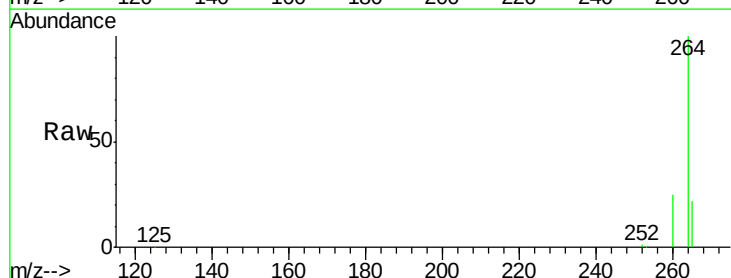


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

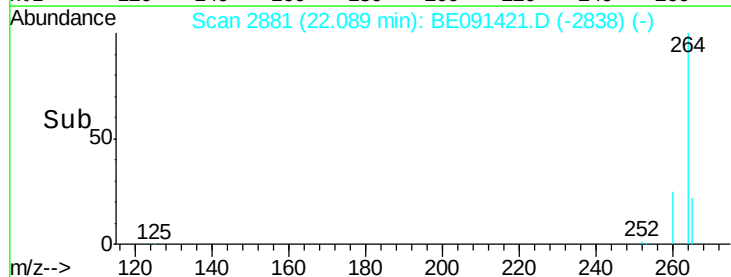
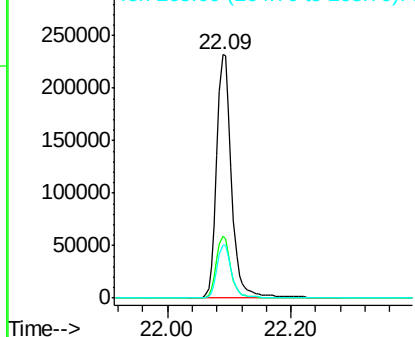


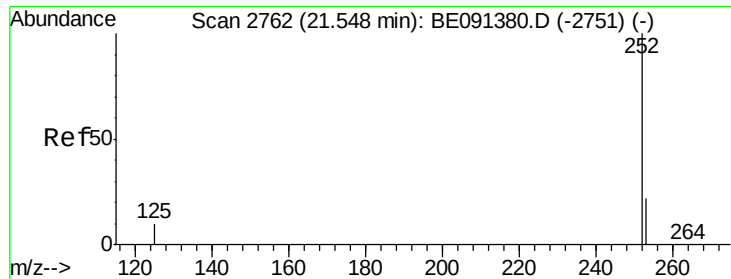
#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2881
Delta R.T. -0.01 min
Lab File: BE091421.D
Acq: 19 Feb 2016 19:32

Tgt Ion:264 Resp: 391953
Ion Ratio Lower Upper
264 100
260 25.2 20.7 31.1
265 21.7 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: 0.99 ng

RT: 21.54 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

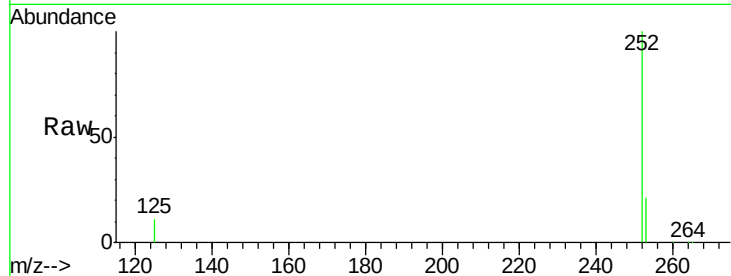
Tot Ion:252 Resp: 84679

Ion Ratio Lower Upper

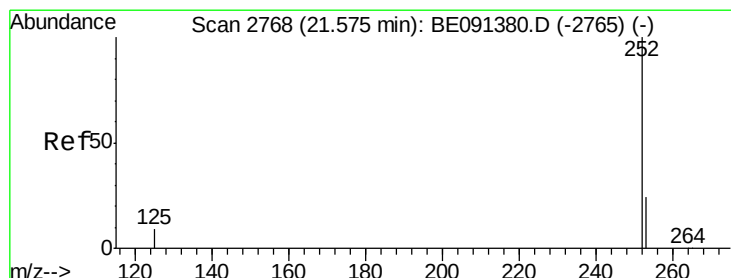
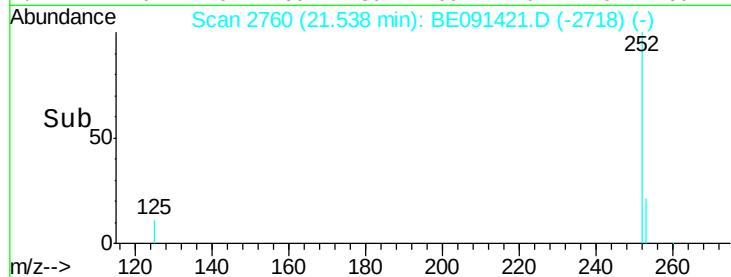
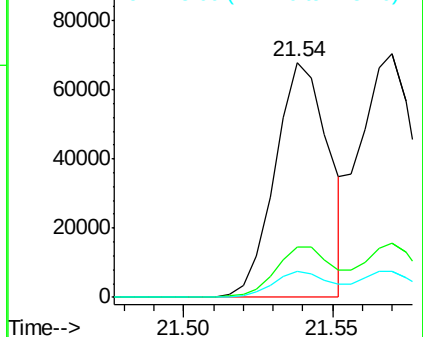
252 100

253 21.5 18.2 27.2

125 11.3 8.3 12.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 1.07 ng

RT: 21.57 min Scan# 2767

Delta R.T. -0.00 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

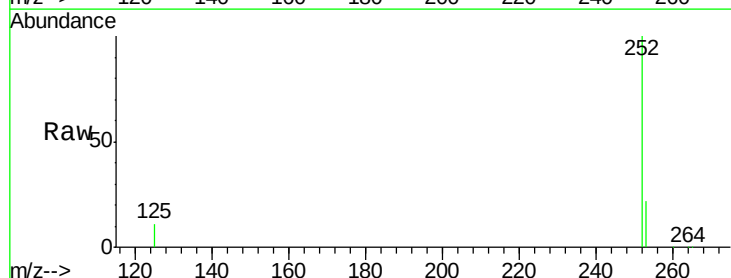
Tgt Ion:252 Resp: 103325

Ion Ratio Lower Upper

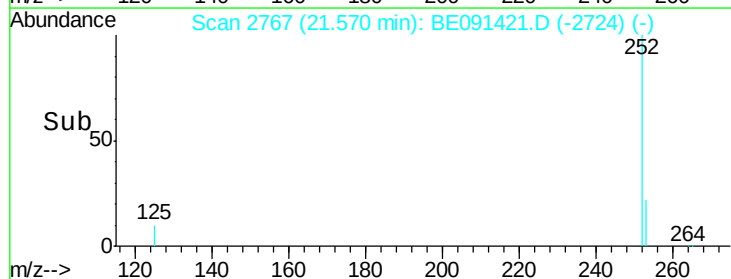
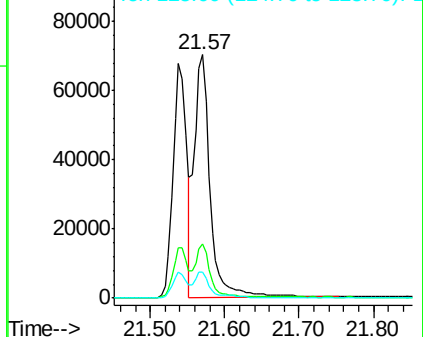
252 100

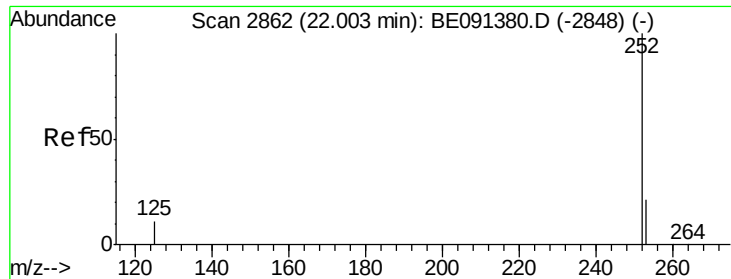
253 22.3 18.1 27.1

125 10.5 8.2 12.4



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





#27

Benzo(a)pyrene

Concen: 1.11 ng

RT: 22.00 min Scan# 2861

Delta R.T. -0.00 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

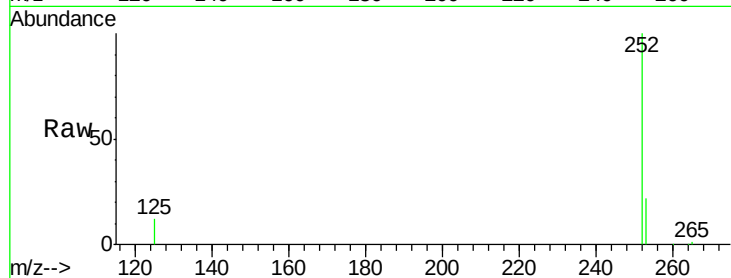
Tot Ion:252 Resp: 87955

Ion Ratio Lower Upper

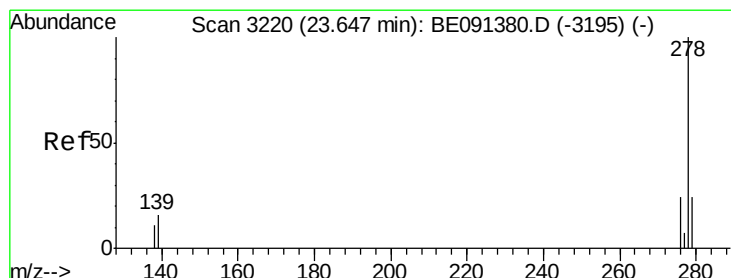
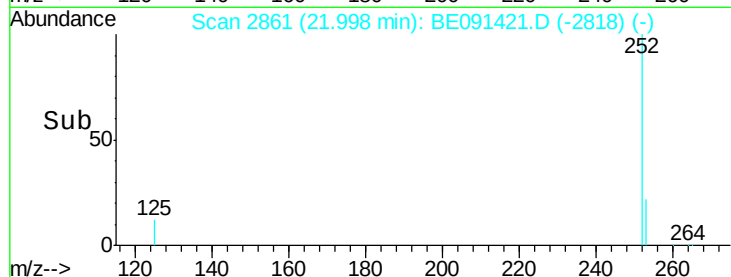
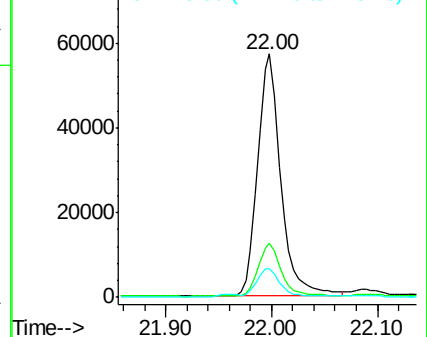
252 100

253 22.5 17.5 26.3

125 11.8 9.4 14.0



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



#28

Dibenzo(a,h)anthracene

Concen: 1.13 ng

RT: 23.64 min Scan# 3218

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

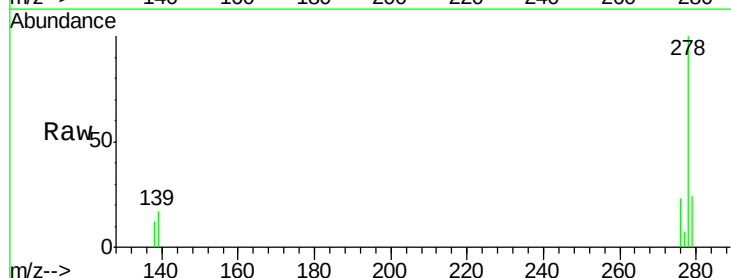
Tgt Ion:278 Resp: 82533

Ion Ratio Lower Upper

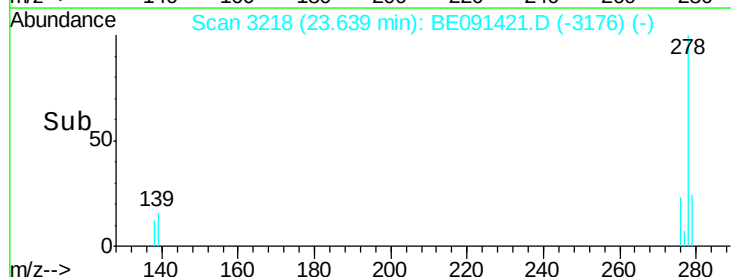
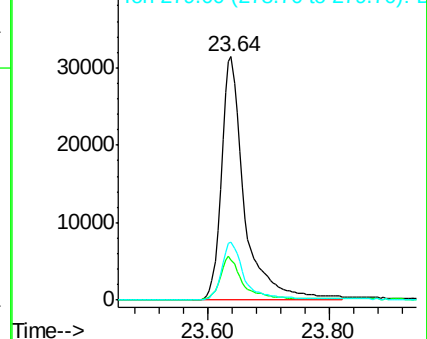
278 100

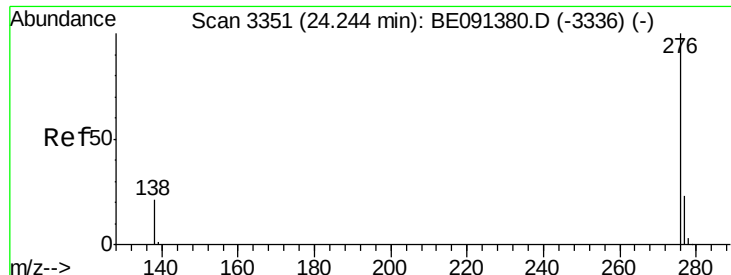
139 16.7 13.0 19.4

279 24.1 19.2 28.8



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: 1.05 ng

RT: 24.24 min Scan# 3349

Delta R.T. -0.01 min

Lab File: BE091421.D

Acq: 19 Feb 2016 19:32

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

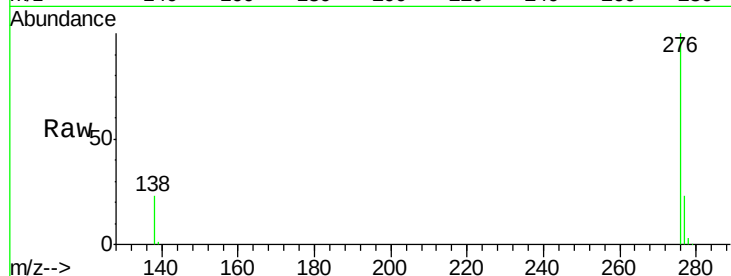
Tot Ion:276 Resp: 90918

Ion Ratio Lower Upper

276 100

277 23.4 18.9 28.3

138 23.4 17.0 25.6



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

