

Data Path : Z:\HPCHEM1\BNA E\DATA\BE062416\
 Data File : BE091943.D
 Acq On : 24 Jun 2016 12:58
 Operator : UM/SJ
 Sample : H3676-03
 Misc :
 ALS Vial : 3 Sample Multiplier: 0.5

Instrument :
 BNA_E
 ClientSampleId :
 NCHC-010

Quant Time: Jun 24 17:25:10 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE061416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 15 12:00:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	14561	5.00	ng	0.00
8) Naphthalene-d8	10.99	136	68009	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	52595	5.00	ng	0.00
24) Phenanthrene-d10	17.59	188	97658	5.00	ng	-0.01
31) Chrysene-d12	21.76	240	147213	5.00	ng	0.00
40) Perylene-d12	24.17	264	105253	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.72	112	58432	10.26	ng	0.00
5) Phenol-d6	7.35	99	90769	9.61	ng	0.00
9) Nitrobenzene-d5	9.37	82	48186	5.13	ng	0.00
16) 2,4,6-Tribromophenol	16.35	330	22773	8.27	ng	0.00
17) 2-Fluorobiphenyl	13.48	172	122062	4.57	ng	0.00
34) Terphenyl-d14	20.22	244	159630	4.43	ng	0.00

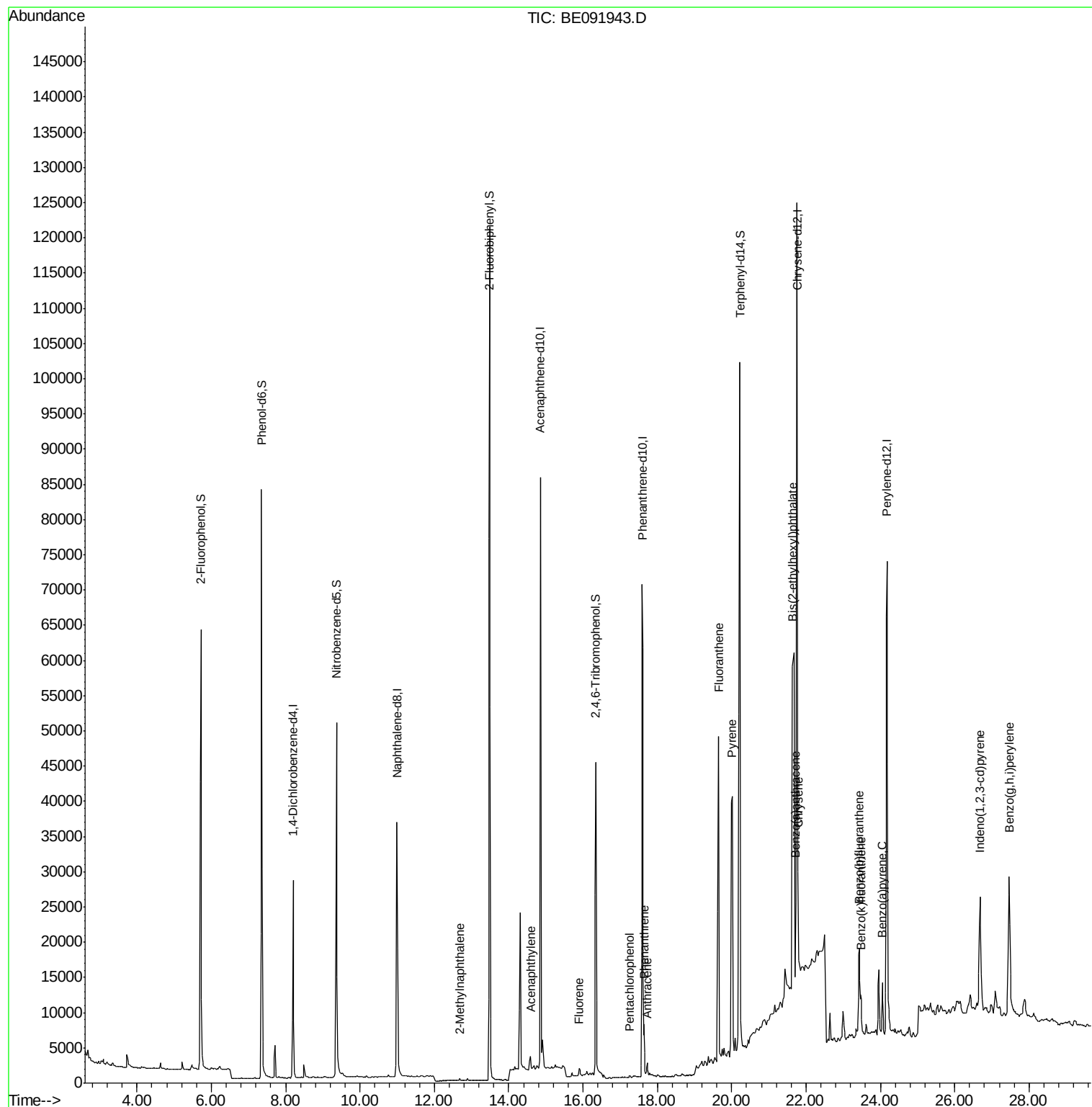
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) 2-Methylnaphthalene	12.69	142	323	0.03	ng	# 85
18) Acenaphthylene	14.59	152	4606	0.09	ng	# 77
22) Fluorene	15.90	166	1020	0.07	ng	# 78
27) Pentachlorophenol	17.25	266	329	0.39	ng	# 85
28) Phenanthrene	17.64	178	7995	0.33	ng	98
29) Anthracene	17.73	178	2184	0.10	ng	97
30) Fluoranthene	19.65	202	75206	0.72	ng	# 87
33) Pyrene	19.99	202	83046	0.83	ng	# 64
35) Benzo(a)anthracene	21.73	228	11119m	0.48	ng	
37) Chrysene	21.78	228	14638m	0.43	ng	
38) Bis(2-ethylhexyl)phthalate	21.64	149	150313	5.76	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.68	276	37045	0.32	ng	96
41) Benzo(b)fluoranthene	23.43	252	19234m	0.71	ng	
42) Benzo(k)fluoranthene	23.47	252	7674m	0.31	ng	
43) Benzo(a)pyrene	24.06	252	11381	0.48	ng	# 42
45) Benzo(g,h,i)perylene	27.47	276	51415	0.54	ng	# 74

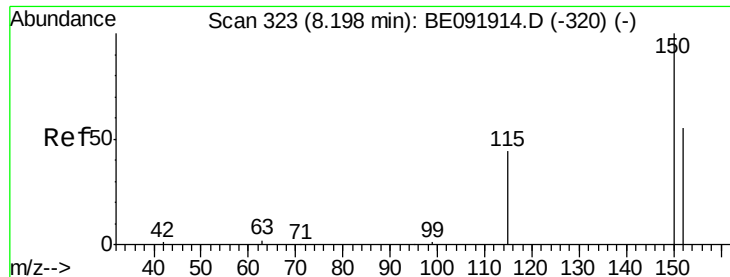
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

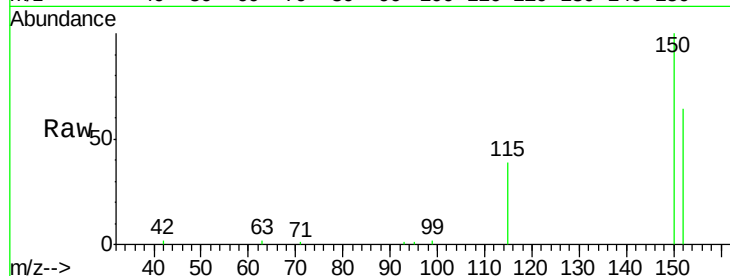
Tot Ion:152 Resp: 14561

Ion Ratio Lower Upper

152 100

150 156.2 123.9 185.9

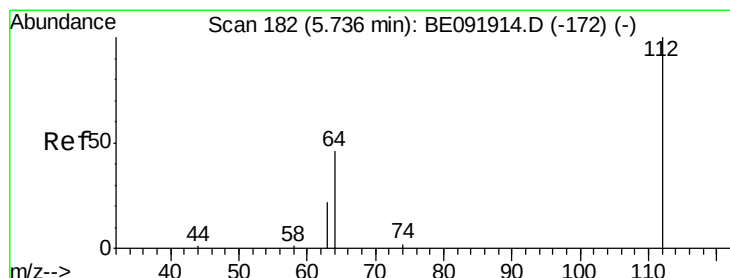
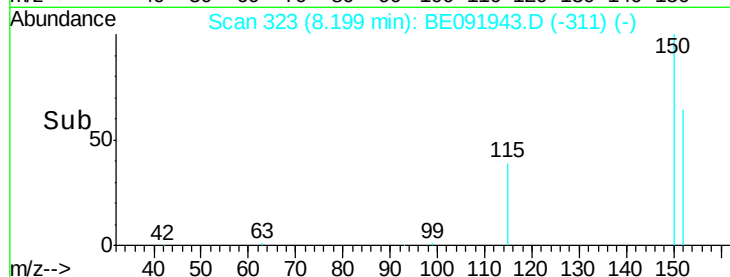
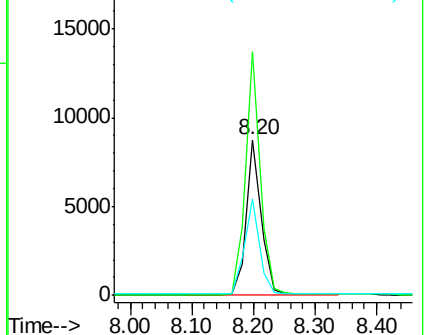
115 61.5 48.3 72.5



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



#4

2-Fluorophenol

Concen: 10.26 ng

RT: 5.72 min Scan# 181

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

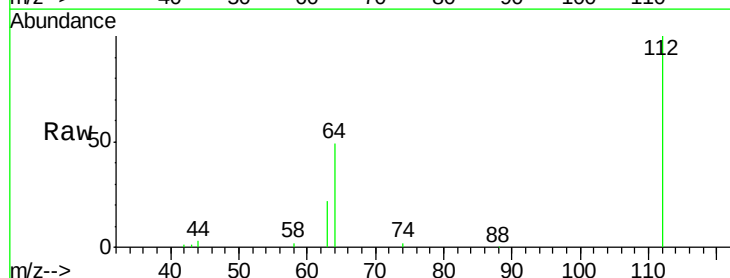
Tgt Ion:112 Resp: 58432

Ion Ratio Lower Upper

112 100

64 67.7 53.7 80.5

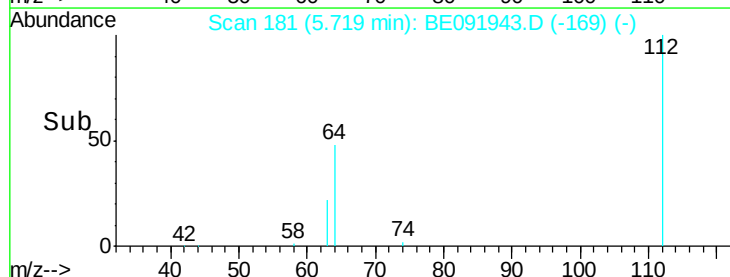
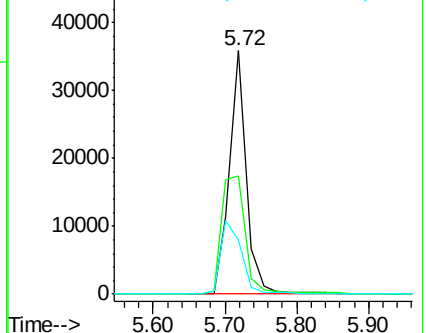
63 36.8 29.5 44.3

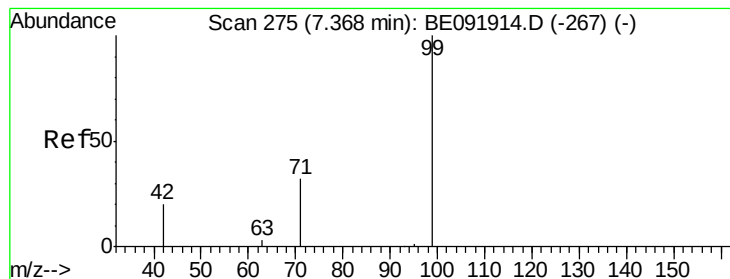


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 9.61 ng

RT: 7.35 min Scan# 274

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

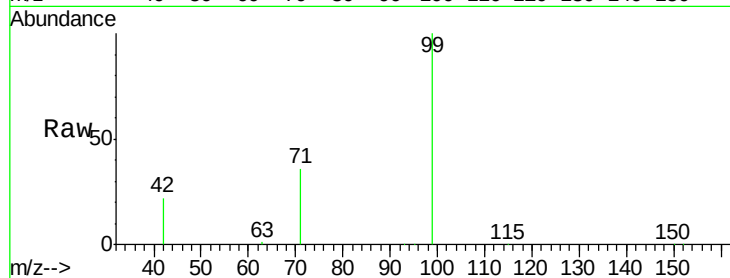
Tot Ion: 99 Resp: 90769

Ion Ratio Lower Upper

99 100

42 25.8 19.6 29.4

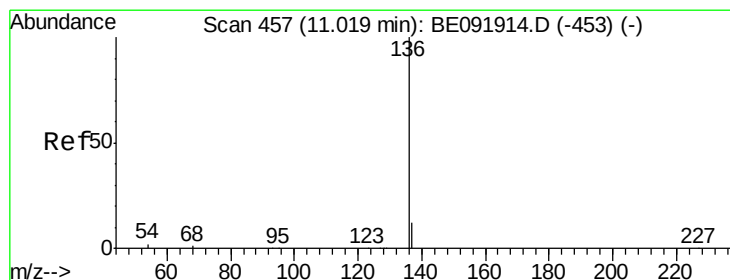
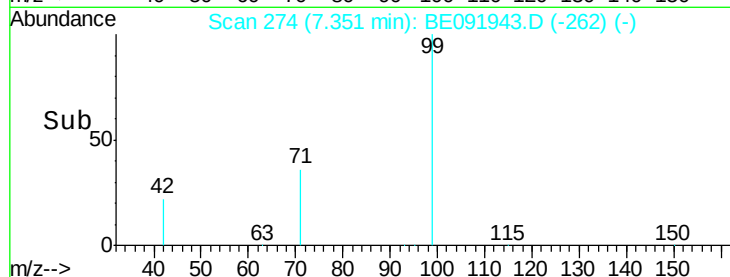
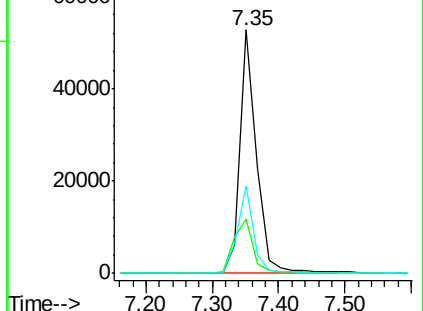
71 35.6 28.1 42.1



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



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 456

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Tgt Ion: 136 Resp: 68009

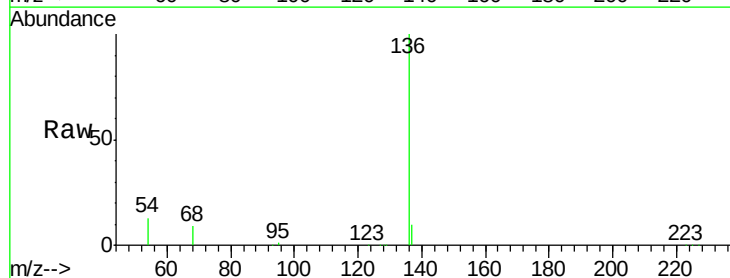
Ion Ratio Lower Upper

136 100

137 9.9 8.3 12.5

54 13.0 8.2 12.4#

68 9.1 5.9 8.9#

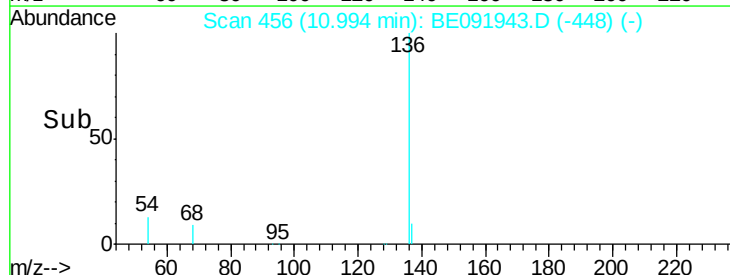
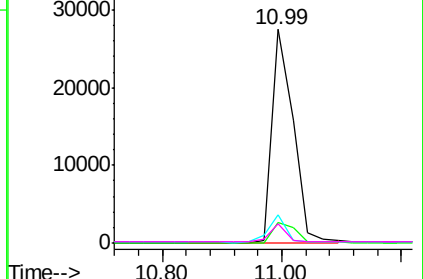


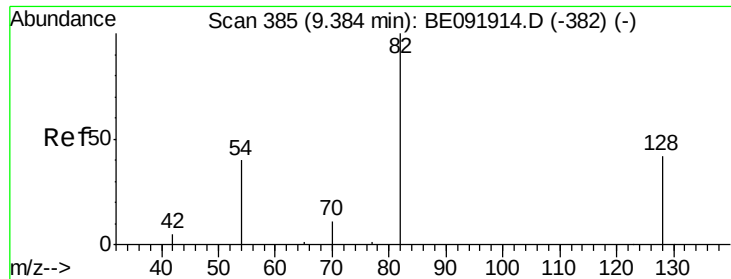
Abundance Ion 136.00 (135.70 to 136.70): E

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





#9

Nitrobenzene-d5

Concen: 5.13 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

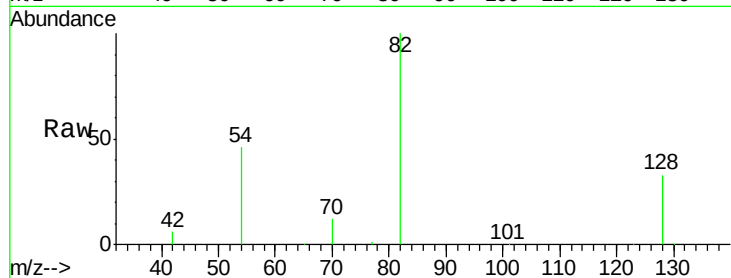
Tot Ion: 82 Resp: 48186

Ion Ratio Lower Upper

82 100

128 33.1 39.5 59.3#

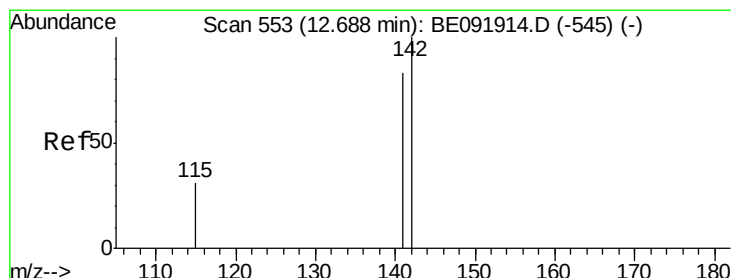
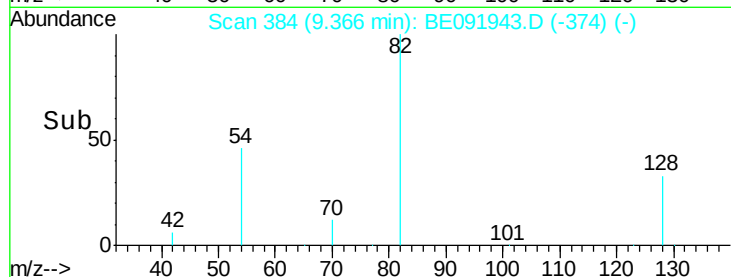
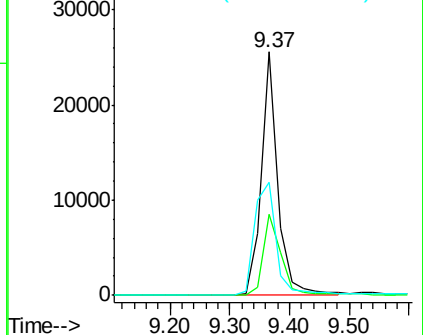
54 46.5 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE091914.D (-382) (-)

Ion 128.00 (127.70 to 128.70): BE091914.D (-382) (-)

Ion 54.00 (53.70 to 54.70): BE091914.D (-382) (-)



#14

2-Methylnaphthalene

Concen: 0.03 ng

RT: 12.69 min Scan# 553

Delta R.T. 0.01 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

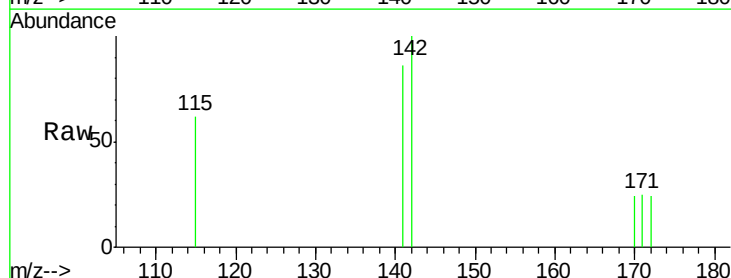
Tgt Ion: 142 Resp: 323

Ion Ratio Lower Upper

142 100

141 86.0 71.9 107.9

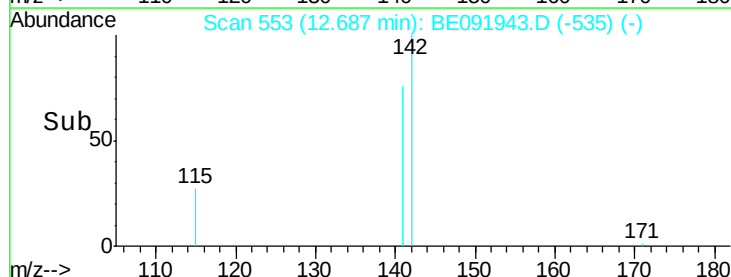
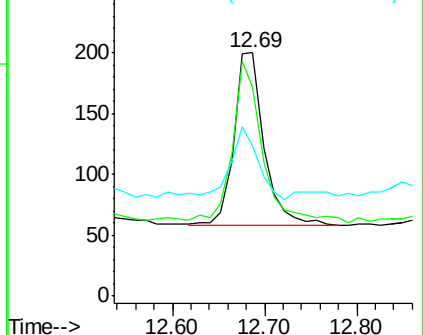
115 61.5 29.9 44.9#

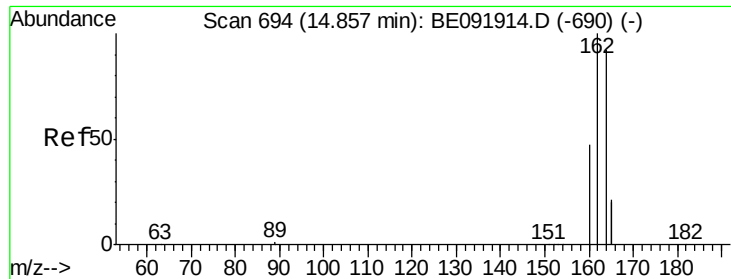


Abundance Ion 142.00 (141.70 to 142.70): BE091914.D (-545) (-)

Ion 141.00 (140.70 to 141.70): BE091914.D (-545) (-)

Ion 115.00 (114.70 to 115.70): BE091914.D (-545) (-)





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

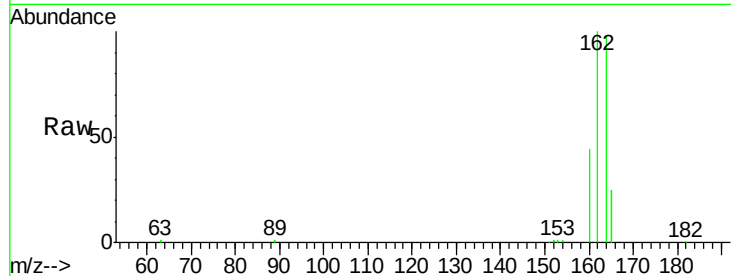
Tot Ion:164 Resp: 52595

Ion Ratio Lower Upper

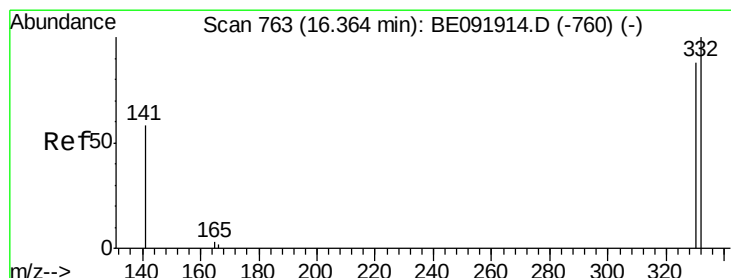
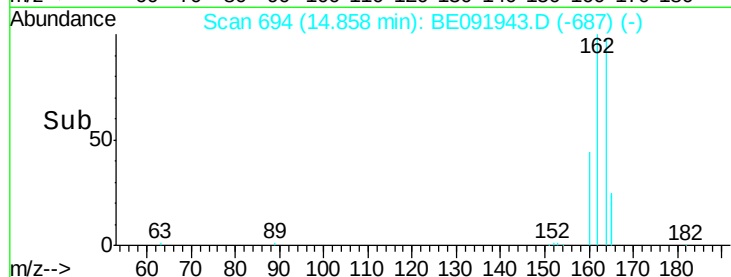
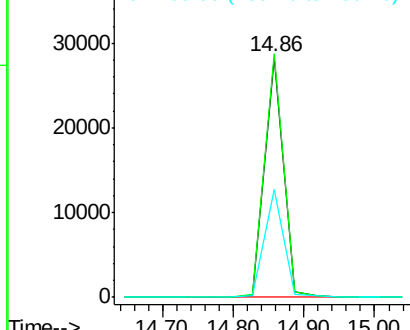
164 100

162 101.6 71.8 107.8

160 44.8 28.0 42.0#



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



#16

2,4,6-Tribromophenol

Concen: 8.27 ng

RT: 16.35 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

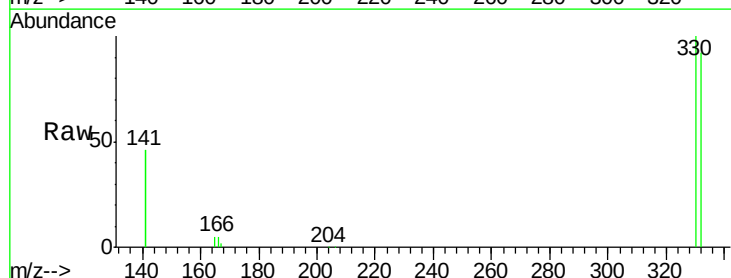
Tgt Ion:330 Resp: 22773

Ion Ratio Lower Upper

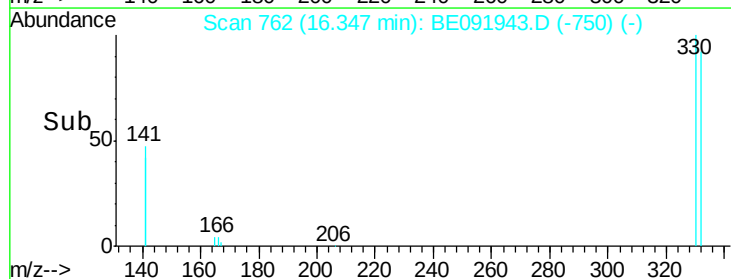
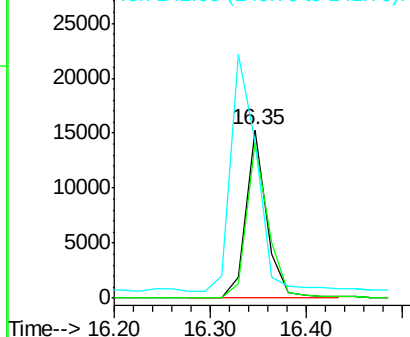
330 100

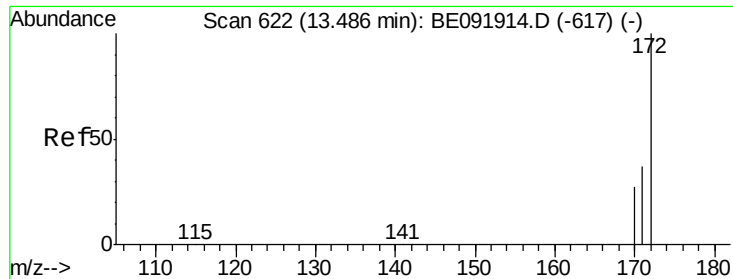
332 96.5 77.0 115.6

141 183.6 138.4 207.6



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

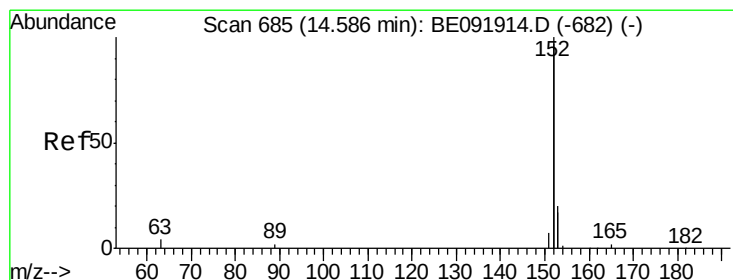
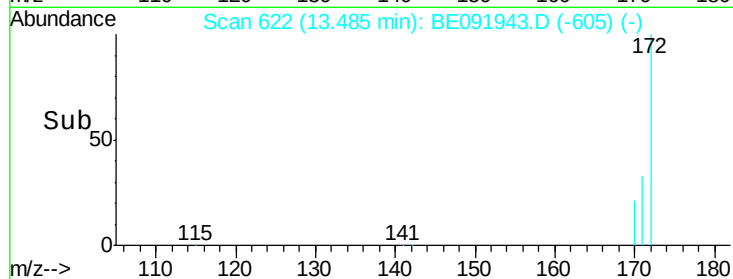
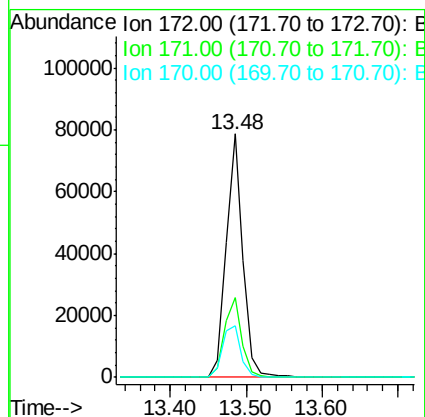
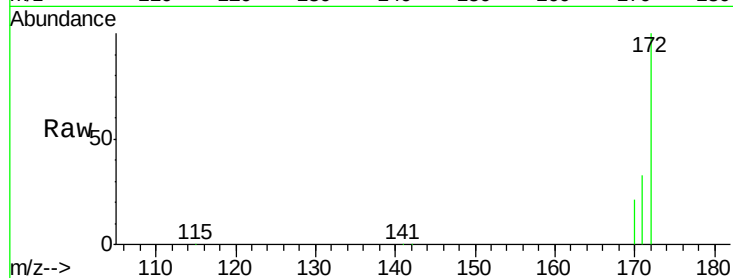




#17
2-Fluorobiphenyl
Concen: 4.57 ng
RT: 13.48 min Scan# 622
Delta R.T. -0.00 min
Lab File: BE091943.D
Acq: 24 Jun 2016 12:58

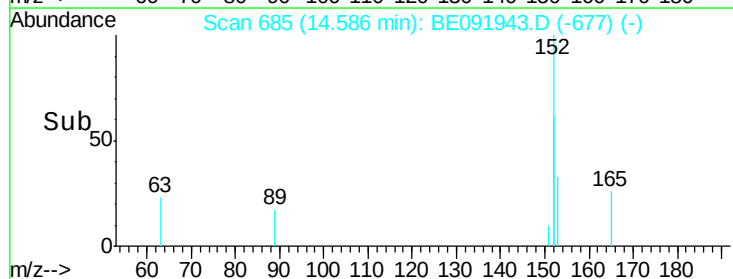
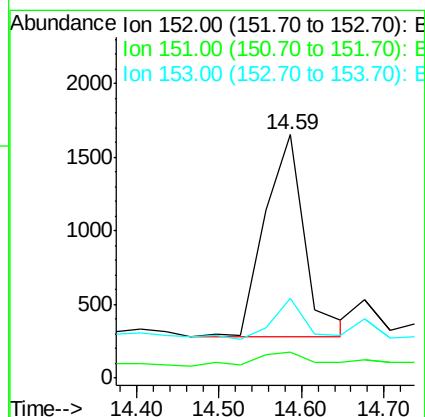
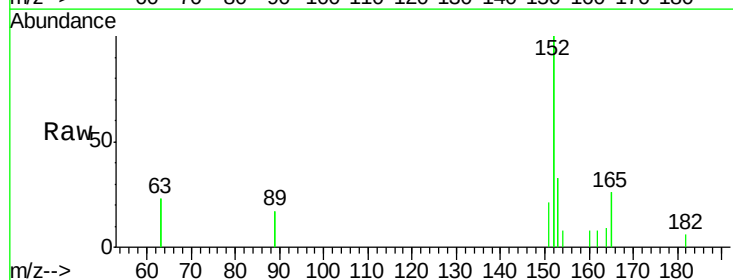
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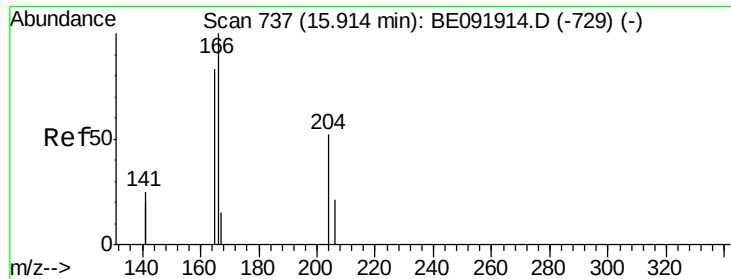
Tot Ion:172 Resp: 122062
Ion Ratio Lower Upper
172 100
171 32.8 24.3 36.5
170 21.0 14.9 22.3



#18
Acenaphthylene
Concen: 0.09 ng
RT: 14.59 min Scan# 685
Delta R.T. 0.03 min
Lab File: BE091943.D
Acq: 24 Jun 2016 12:58

Tgt Ion:152 Resp: 4606
Ion Ratio Lower Upper
152 100
151 8.4 19.4 29.2#
153 13.6 14.4 21.6#





#22

Fluorene

Concen: 0.07 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

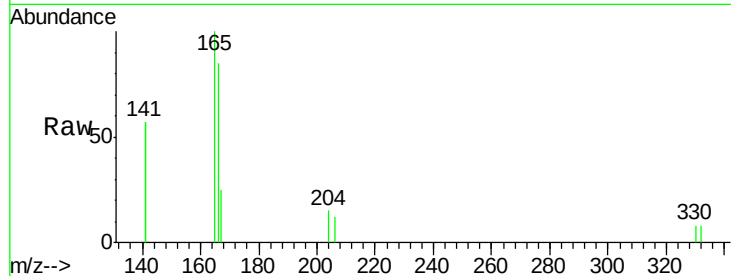
Tot Ion:166 Resp: 1020

Ion Ratio Lower Upper

166 100

165 120.0 78.6 117.8#

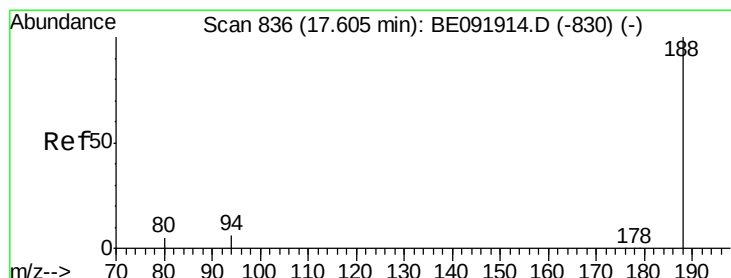
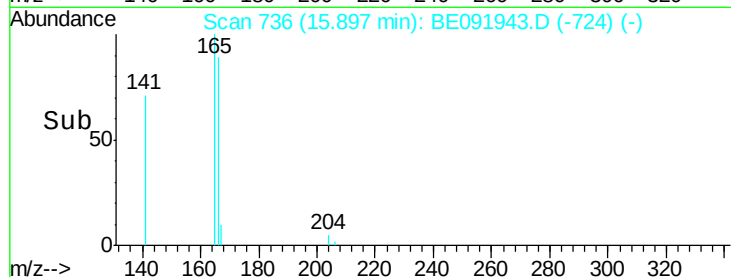
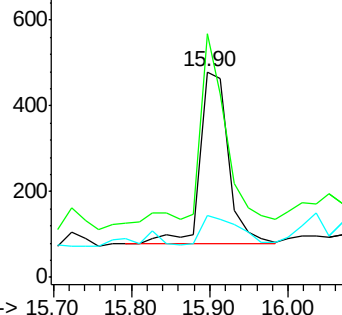
167 21.5 10.8 16.2#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.59 min Scan# 835

Delta R.T. -0.01 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

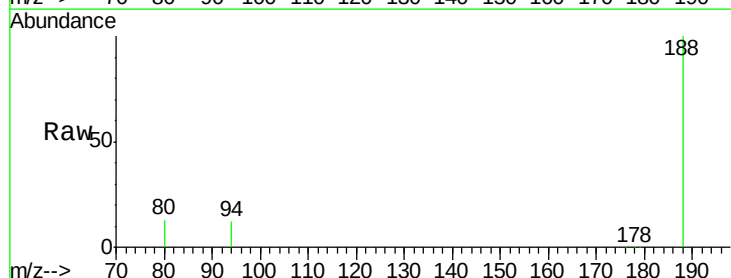
Tgt Ion:188 Resp: 97658

Ion Ratio Lower Upper

188 100

94 12.3 4.1 6.1#

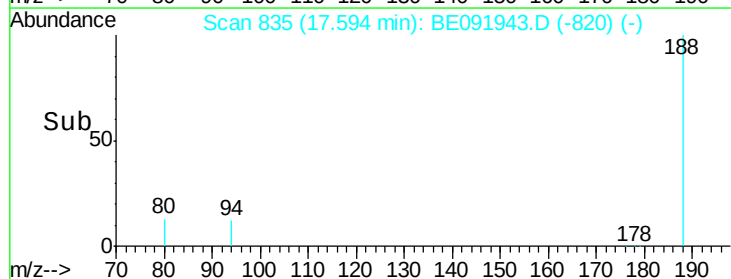
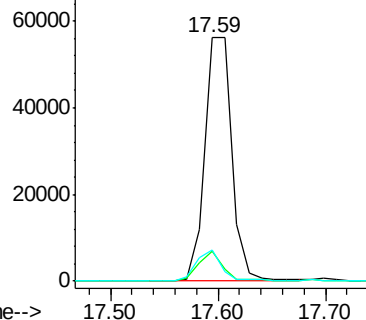
80 12.7 3.4 5.2#

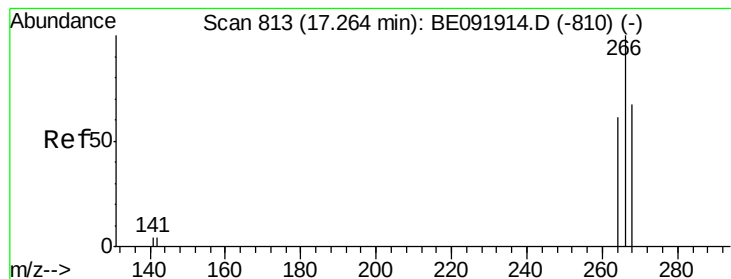


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#27

Pentachlorophenol

Concen: 0.39 ng

RT: 17.25 min Scan# 812

Delta R.T. 0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

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ClientSampleId :

NCHC-010

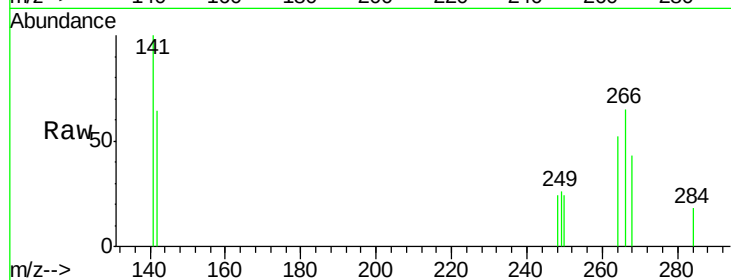
Tot Ion:266 Resp: 329

Ion Ratio Lower Upper

266 100

268 67.1 60.5 90.7

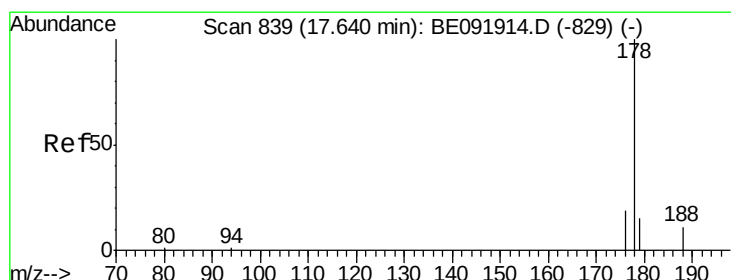
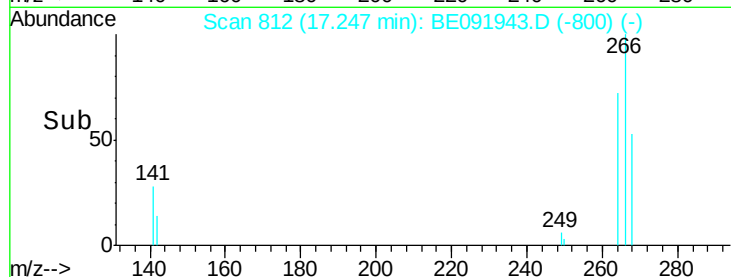
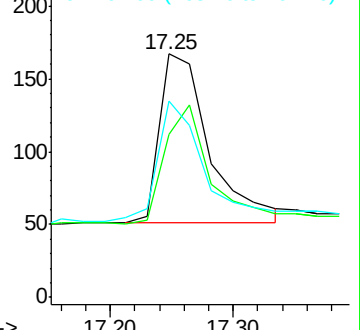
264 80.8 51.0 76.4#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#28

Phenanthrene

Concen: 0.33 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

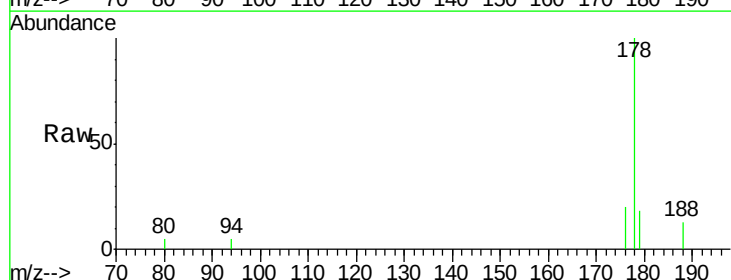
Tgt Ion:178 Resp: 7995

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

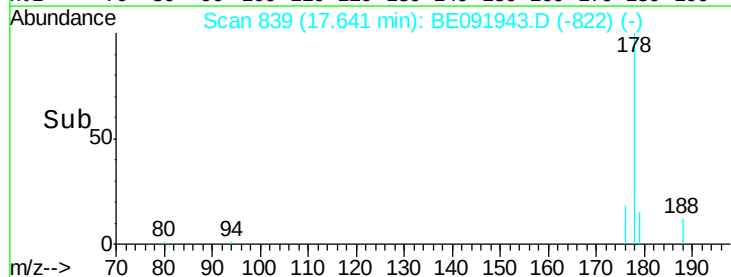
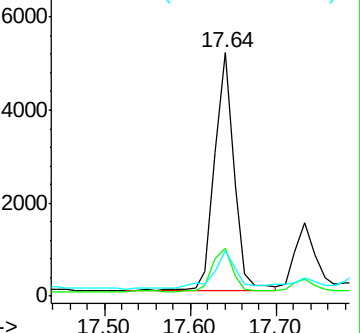
179 17.7 12.9 19.3

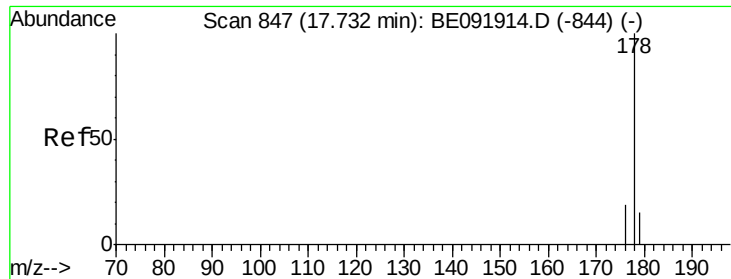


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#29

Anthracene

Concen: 0.10 ng

RT: 17.73 min Scan# 847

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

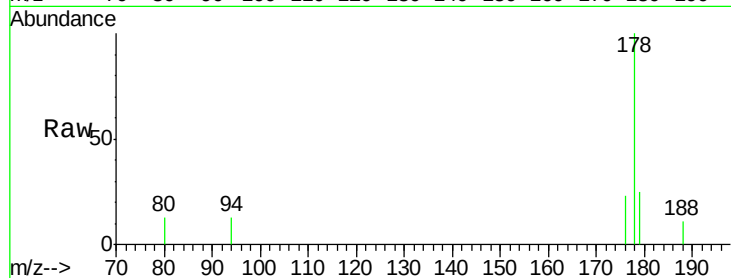
Tot Ion:178 Resp: 2184

Ion Ratio Lower Upper

178 100

176 19.2 15.1 22.7

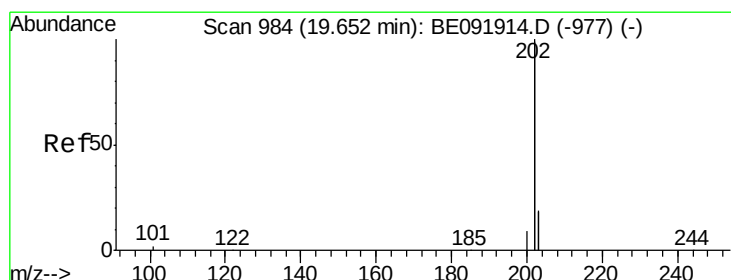
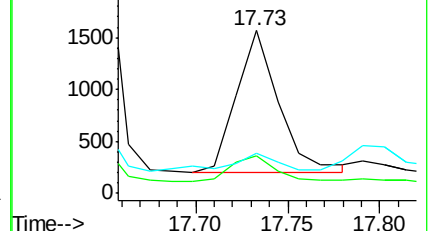
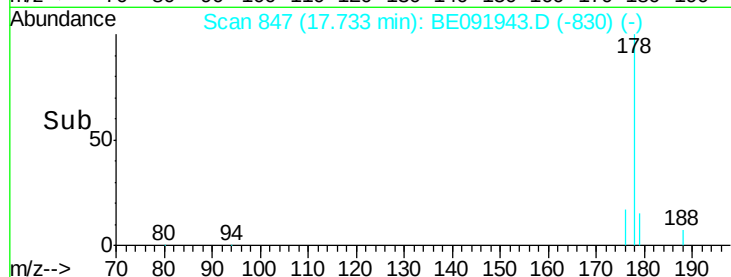
179 12.3 12.1 18.1



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



#30

Fluoranthene

Concen: 0.72 ng

RT: 19.65 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

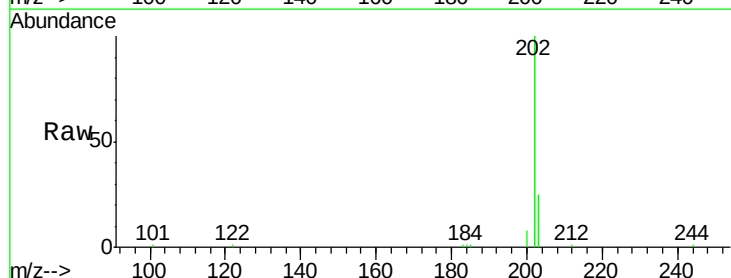
Tgt Ion:202 Resp: 75206

Ion Ratio Lower Upper

202 100

101 0.0 9.4 14.0#

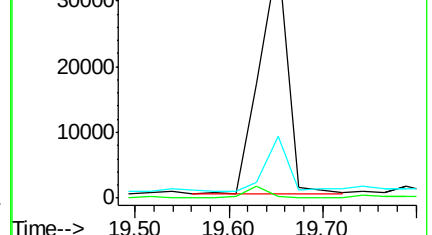
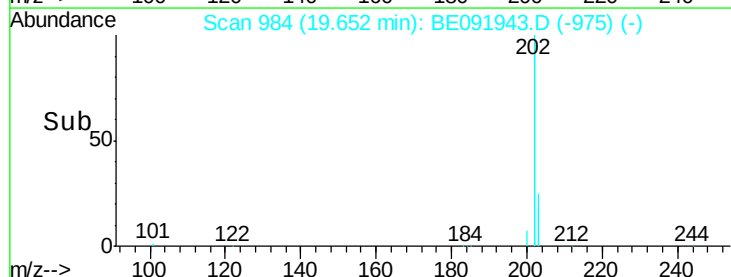
203 18.9 14.3 21.5

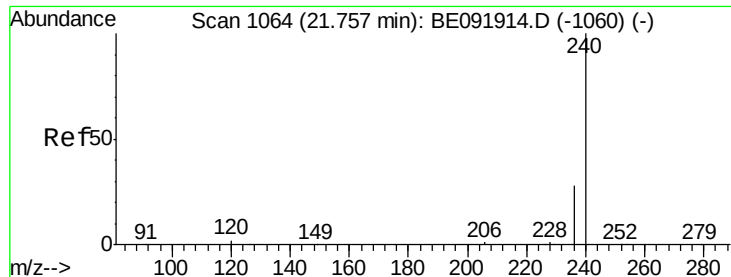


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

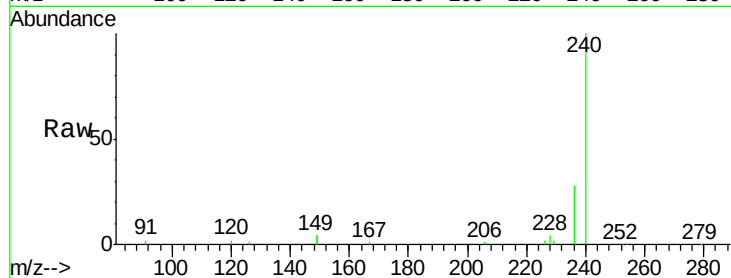
Tot Ion:240 Resp: 147213

Ion Ratio Lower Upper

240 100

120 2.5 1.2 1.8#

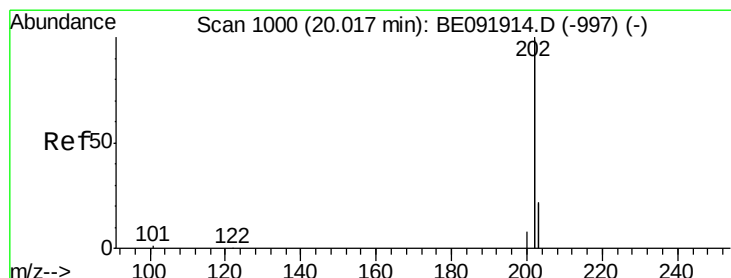
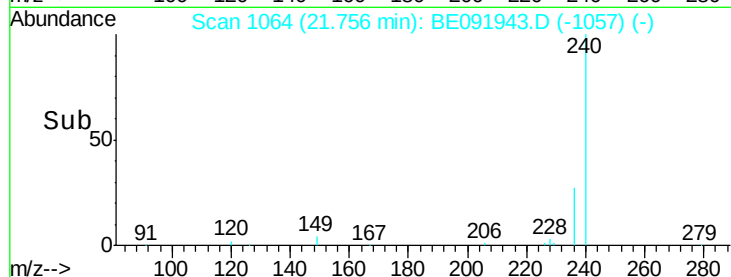
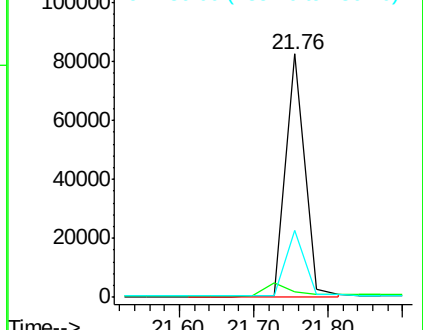
236 27.6 19.8 29.8



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



#33

Pyrene

Concen: 0.83 ng

RT: 19.99 min Scan# 999

Delta R.T. -0.02 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

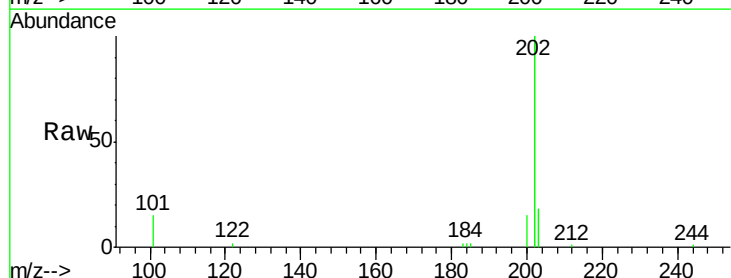
Tgt Ion:202 Resp: 83046

Ion Ratio Lower Upper

202 100

200 5.4 16.9 25.3#

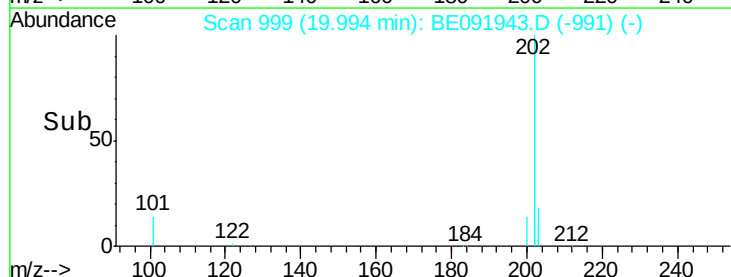
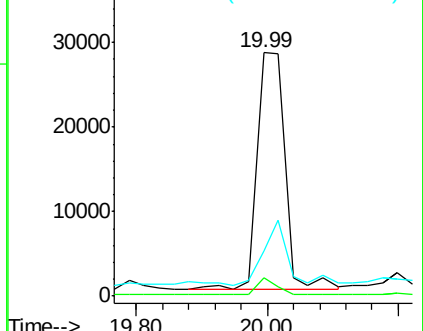
203 0.0 14.1 21.1#

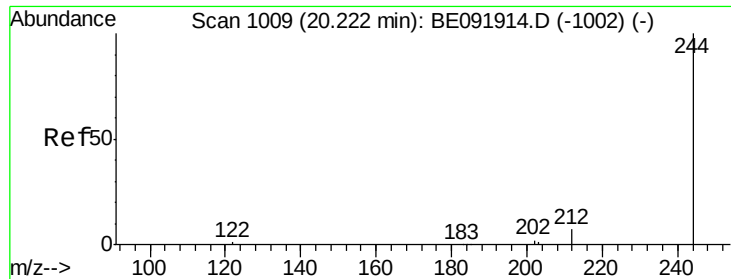


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#34

Terphenyl-d14

Concen: 4.43 ng

RT: 20.22 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

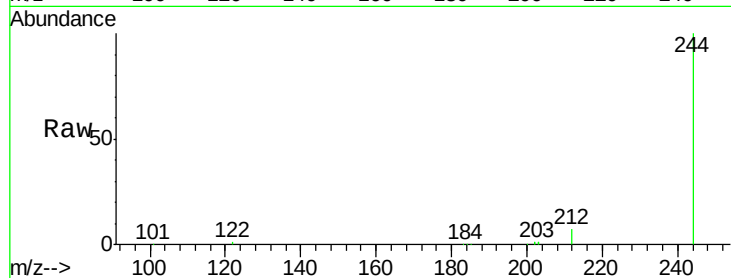
Tot Ion:244 Resp: 159630

Ion Ratio Lower Upper

244 100

212 6.9 6.5 9.7

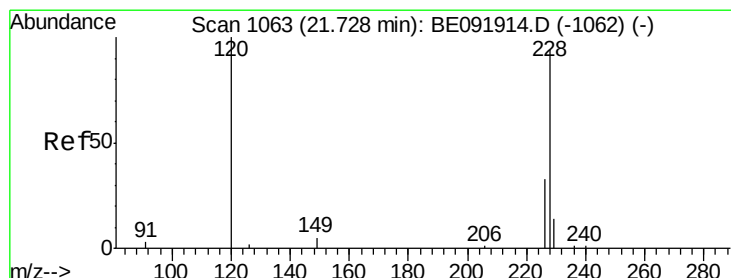
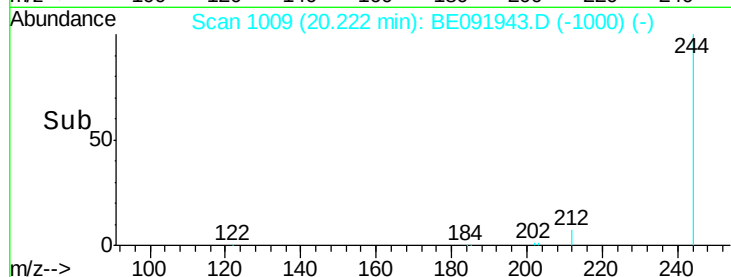
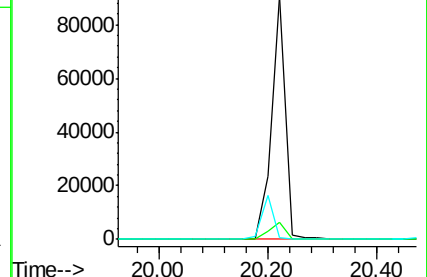
122 0.7 2.9 4.3#



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



#35

Benzo(a)anthracene

Concen: 0.48 ng m

RT: 21.73 min Scan# 1063

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

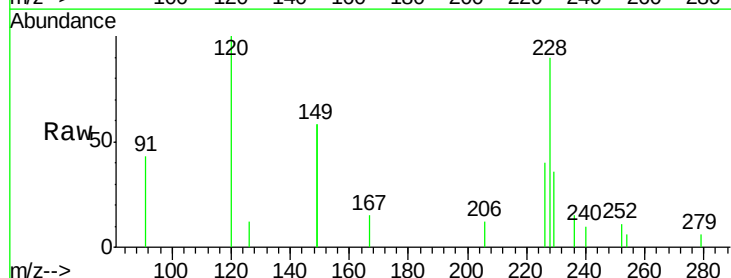
Tgt Ion:228 Resp: 11119

Ion Ratio Lower Upper

228 100

226 44.7 21.0 31.4#

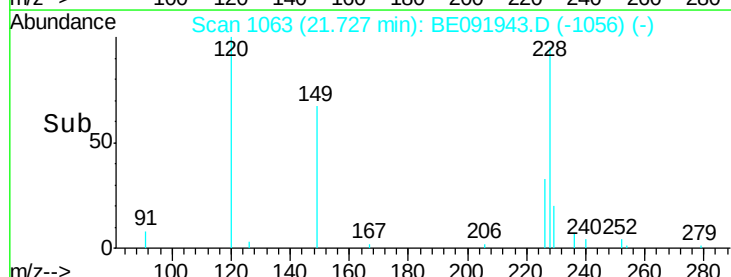
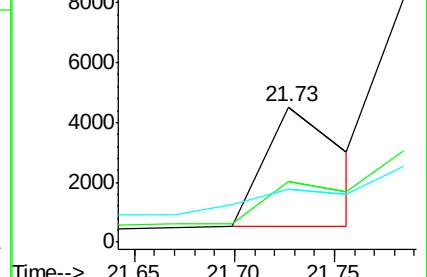
229 39.5 15.8 23.8#

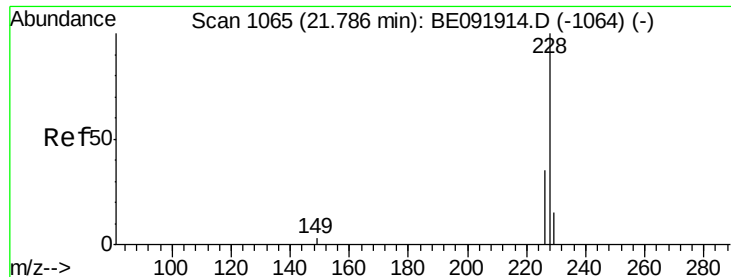


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#37

Chrysene

Concen: 0.43 ng/mL

RT: 21.78 min Scan# 1065

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

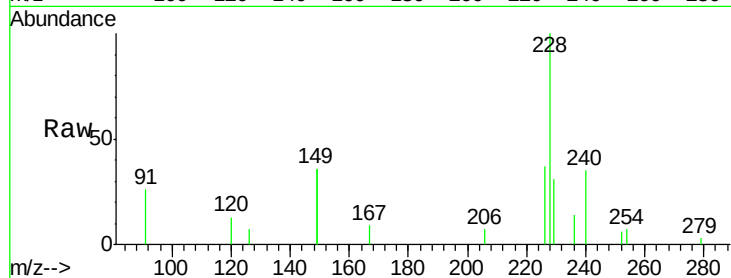
Tot Ion: 228 Resp: 14638

Ion Ratio Lower Upper

228 100

226 37.3 27.0 40.6

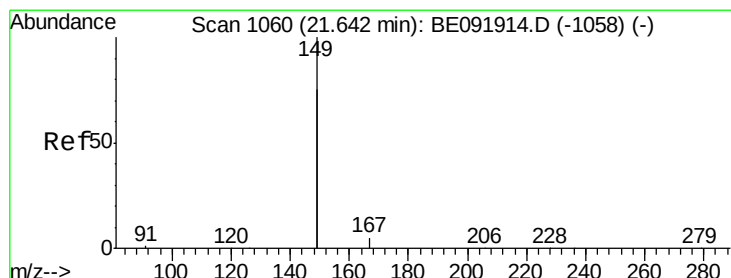
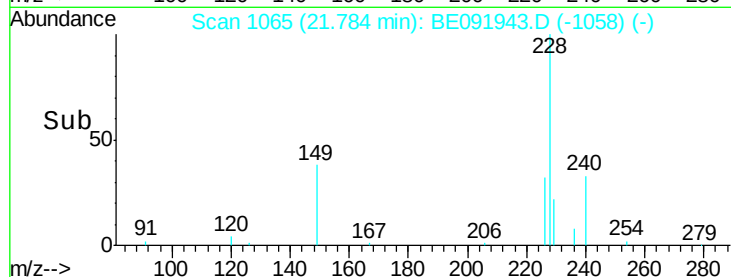
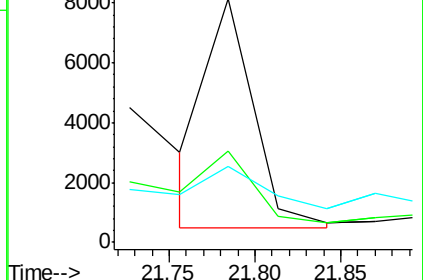
229 31.3 13.8 20.8#



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 5.76 ng

RT: 21.64 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

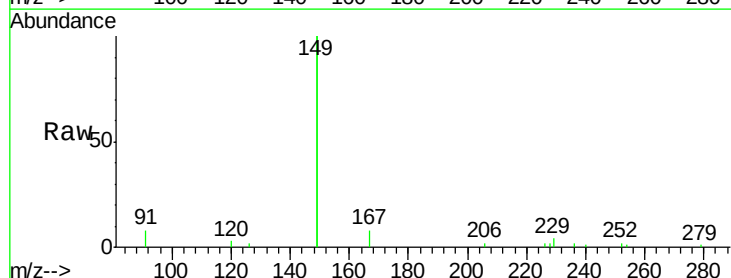
Tgt Ion: 149 Resp: 150313

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

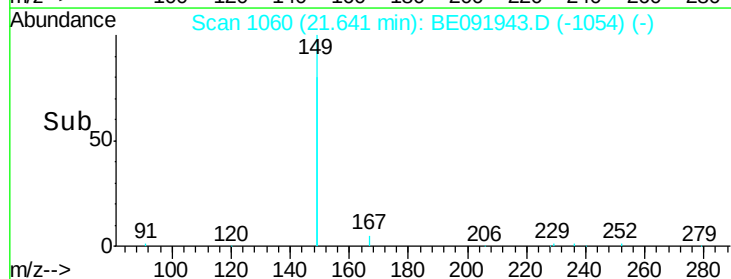
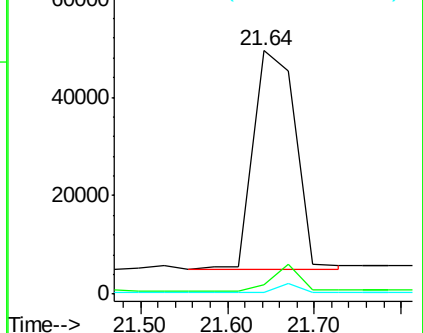
279 0.0 0.0 0.0

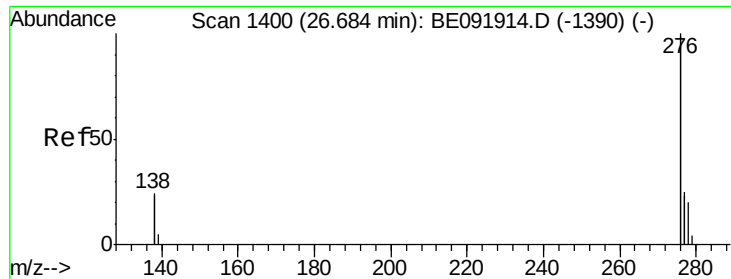


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

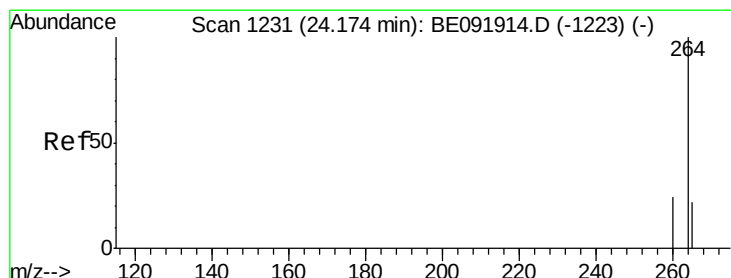
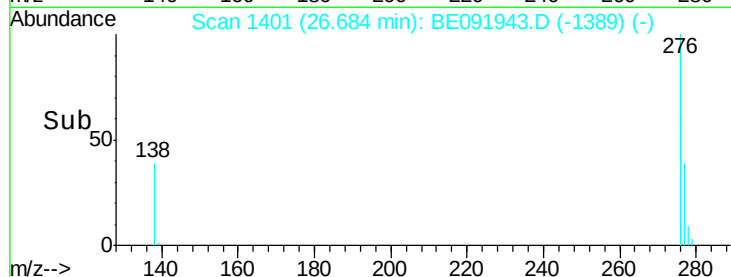
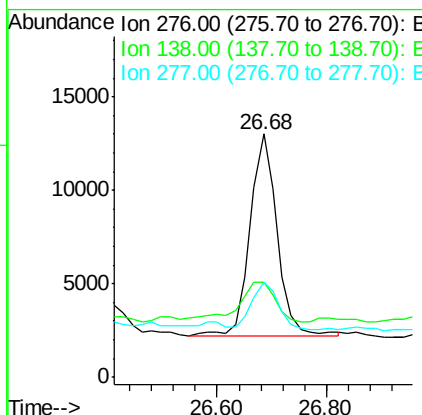
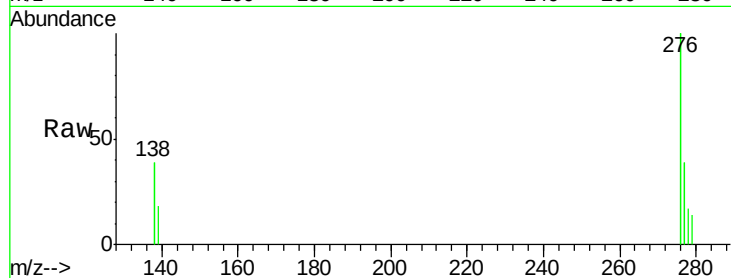




#39
Indeno(1,2,3-cd)pyrene
Concen: 0.32 ng
RT: 26.68 min Scan# 1401
Delta R.T. -0.00 min
Lab File: BE091943.D
Acq: 24 Jun 2016 12:58

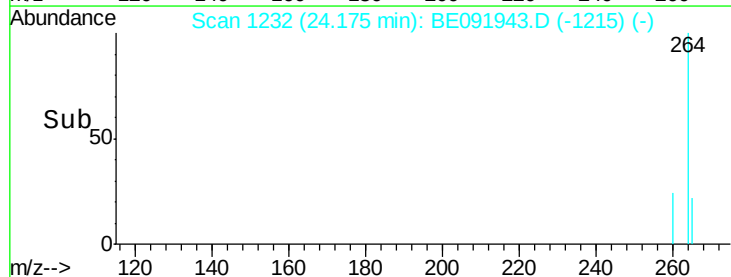
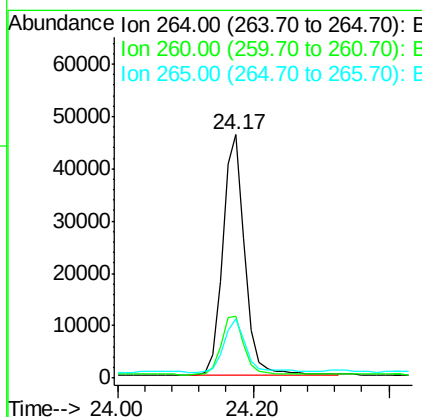
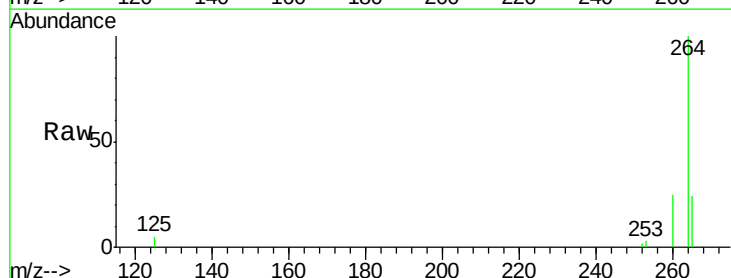
Instrument :
BNA_E
ClientSampleId :
NCHC-010

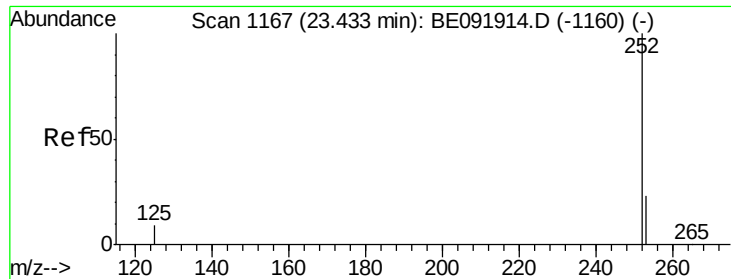
Tot Ion:276 Resp: 37045
Ion Ratio Lower Upper
276 100
138 26.9 19.7 29.5
277 23.3 20.1 30.1



#40
Perylene-d12
Concen: 5.00 ng
RT: 24.17 min Scan# 1232
Delta R.T. -0.00 min
Lab File: BE091943.D
Acq: 24 Jun 2016 12:58

Tgt Ion:264 Resp: 105253
Ion Ratio Lower Upper
264 100
260 25.3 20.3 30.5
265 24.2 17.6 26.4





#41

Benzo(b)fluoranthene

Concen: 0.71 ng m

RT: 23.43 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

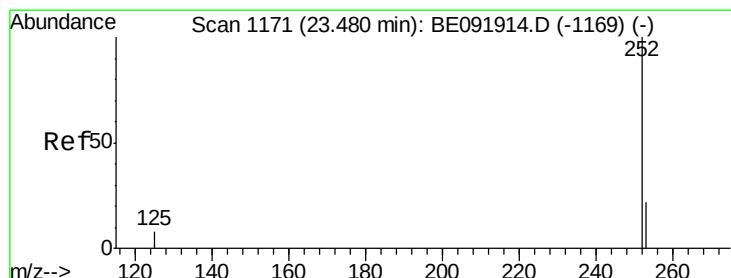
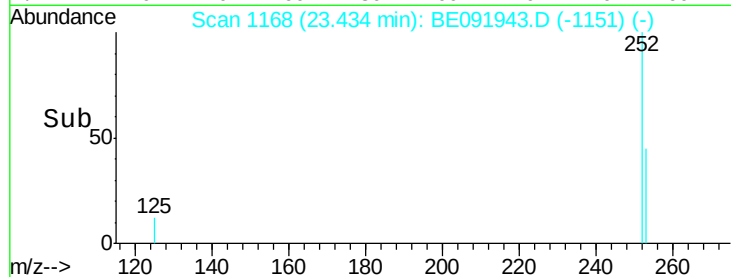
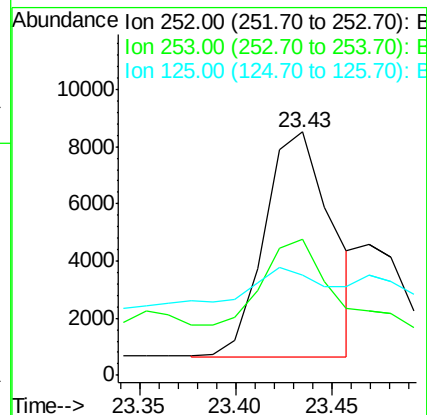
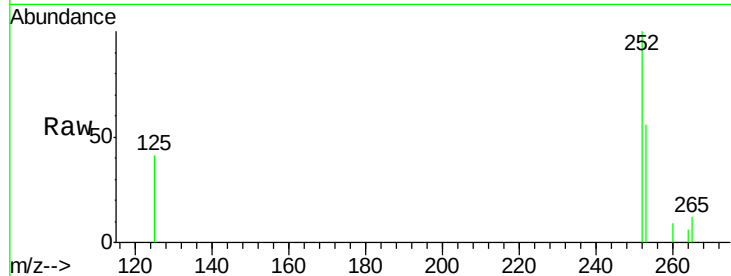
Tot Ion:252 Resp: 19234

Ion Ratio Lower Upper

252 100

253 55.7 17.8 26.6#

125 41.1 9.4 14.2#



#42

Benzo(k)fluoranthene

Concen: 0.31 ng m

RT: 23.47 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

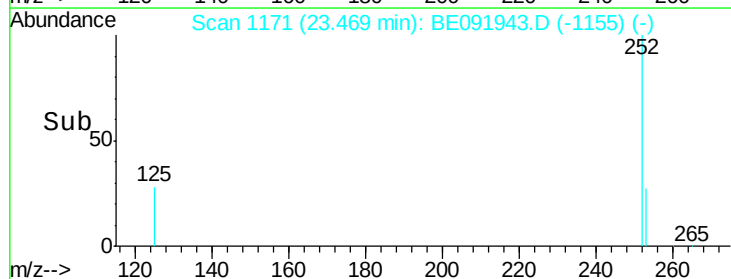
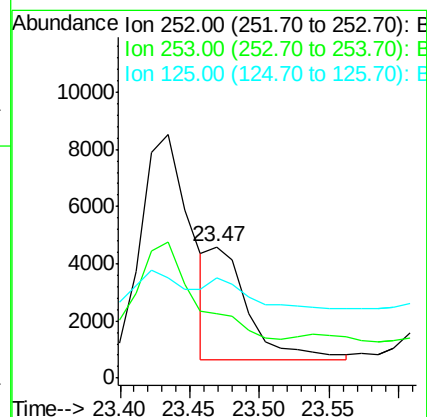
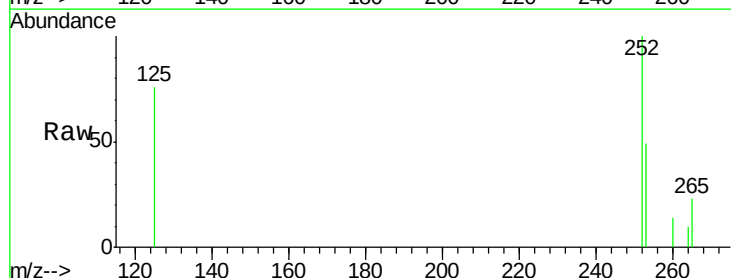
Tgt Ion:252 Resp: 7674

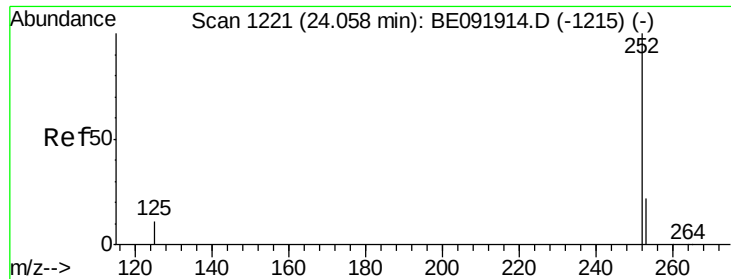
Ion Ratio Lower Upper

252 100

253 49.0 19.4 29.2#

125 75.9 8.3 12.5#





#43

Benzo(a)pyrene

Concen: 0.48 ng

RT: 24.06 min Scan# 1222

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

Instrument :

BNA_E

ClientSampleId :

NCHC-010

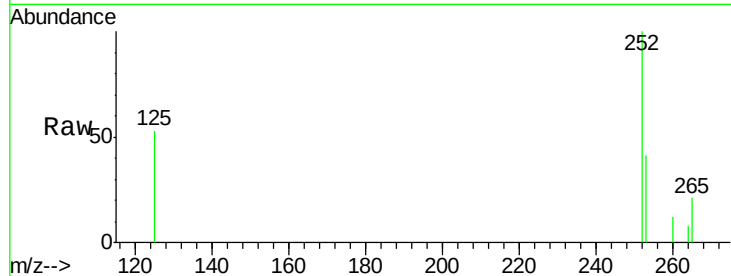
Tot Ion:252 Resp: 11381

Ion Ratio Lower Upper

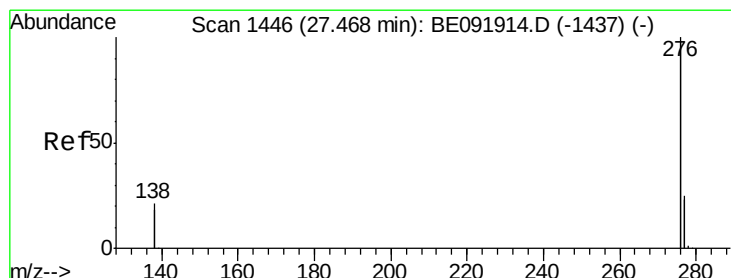
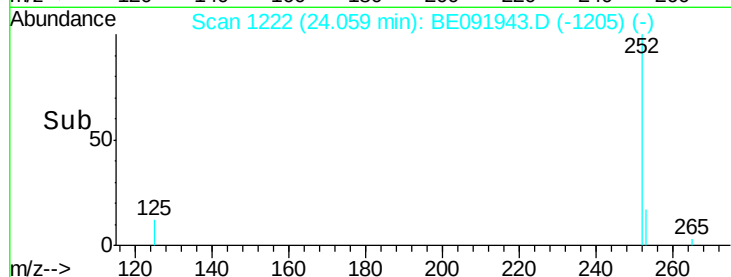
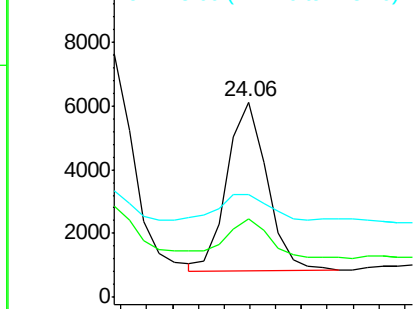
252 100

253 40.5 18.9 28.3#

125 53.0 10.5 15.7#



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



#45

Benzo(g,h,i)perylene

Concen: 0.54 ng

RT: 27.47 min Scan# 1447

Delta R.T. -0.00 min

Lab File: BE091943.D

Acq: 24 Jun 2016 12:58

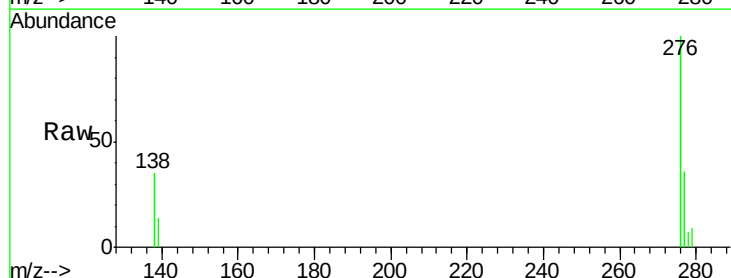
Tgt Ion:276 Resp: 51415

Ion Ratio Lower Upper

276 100

277 36.1 19.5 29.3#

138 35.4 17.7 26.5#



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

