

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080316\
 Data File : BE092168.D
 Acq On : 4 Aug 2016 5:34
 Operator : UM/SJ
 Sample : H4242-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 UST-1

Quant Time: Aug 04 06:10:35 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

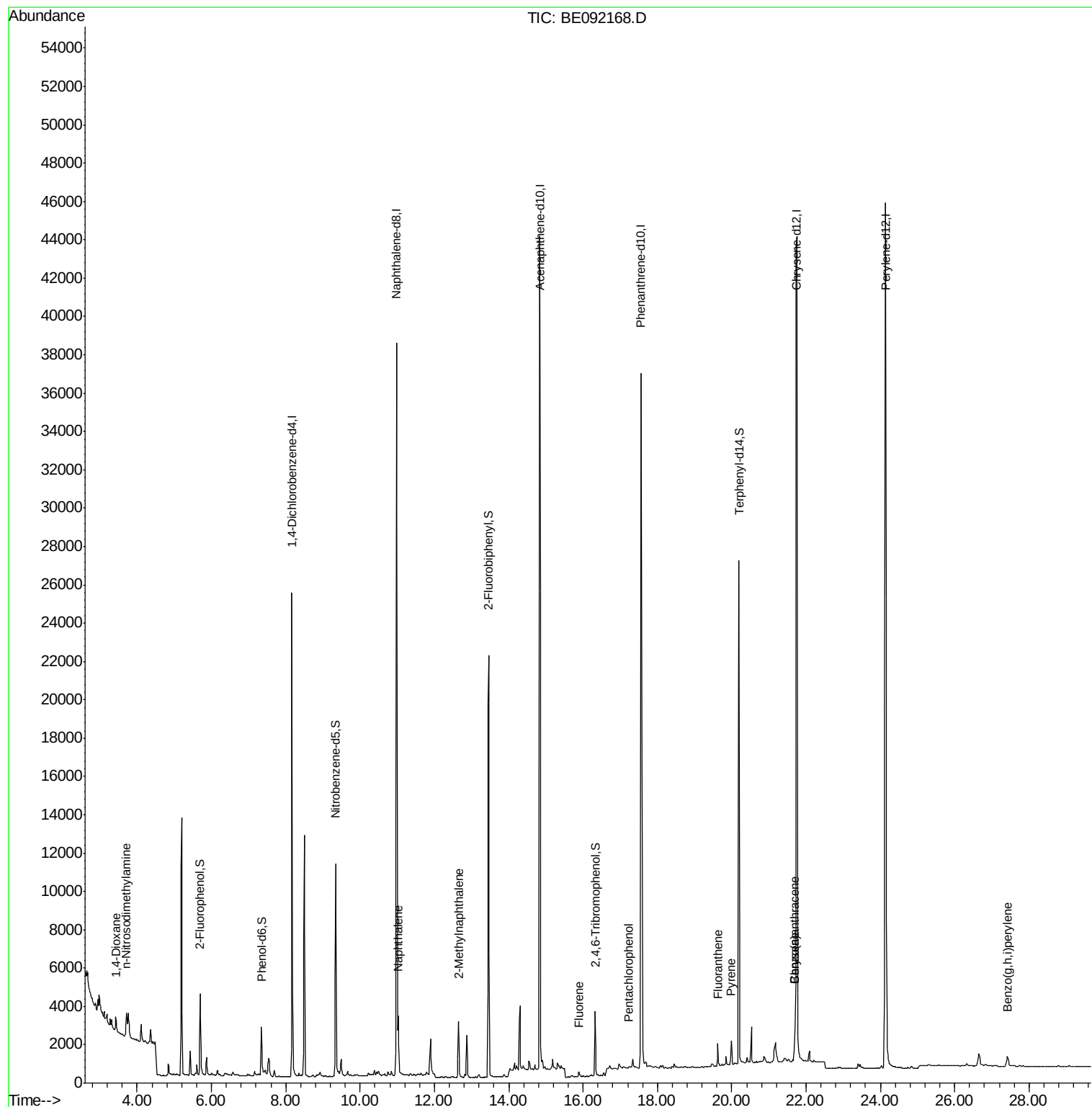
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12841	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	56948	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	29342	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	59547	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	66395	5.00	ng	0.00
28) Perylene-d12	24.14	264	70399	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	3936	1.19	ng	0.00
5) Phenol-d6	7.35	99	3178	0.72	ng	0.00
7) Nitrobenzene-d5	9.34	82	10994	2.45	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	2301	2.42	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	23719	2.55	ng	0.00
24) Terphenyl-d14	20.19	244	30966	3.25	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.43	88	108	0.06	ng	# 1
3) n-Nitrosodimethylamine	3.71	42	641	0.35	ng	# 6
8) Naphthalene	11.03	128	3332	0.26	ng	99
9) 2-Methylnaphthalene	12.65	142	2552	0.33	ng	99
15) Fluorene	15.89	166	217	0.02	ng	# 67
18) Pentachlorophenol	17.24	266	17	0.21	ng	# 77
21) Fluoranthene	19.63	202	1476	0.02	ng	# 87
23) Pyrene	19.99	202	1446	0.02	ng	# 88
25) Benzo(a)anthracene	21.70	228	4136	0.06	ng	# 71
26) Chrysene	21.70	228	4177	0.06	ng	# 72
30) Benzo(k)fluoranthene	23.45	252	284	Below Cal		# 1
33) Benzo(g,h,i)perylene	27.42	276	1460	0.02	ng	# 34

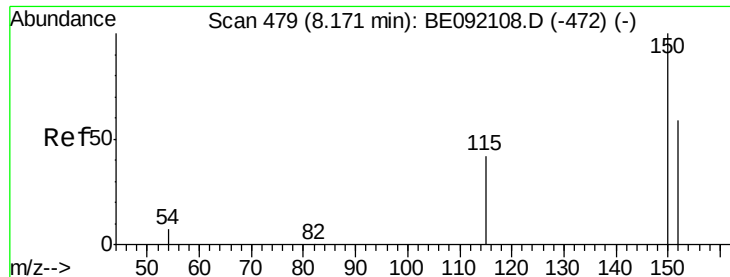
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

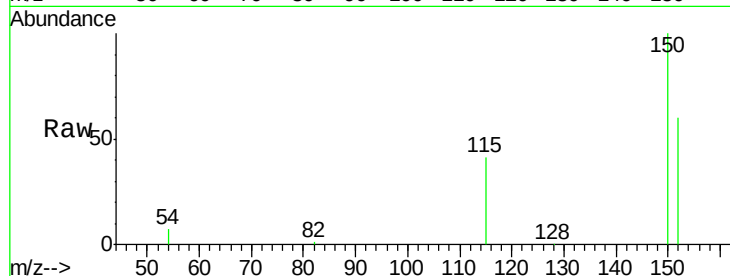
Tgt Ion:152 Resp: 12841

Ion Ratio Lower Upper

152 100

150 166.3 106.0 159.0#

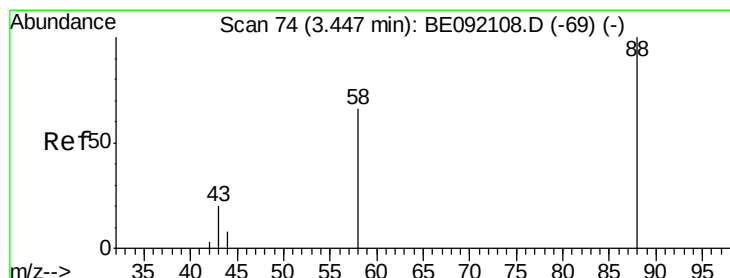
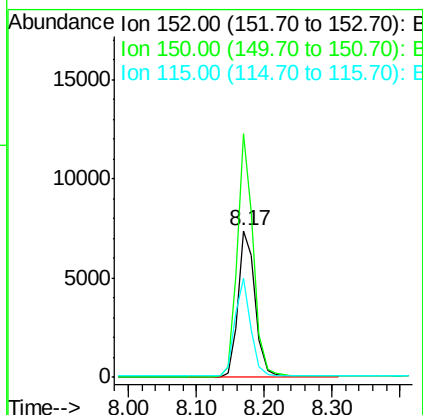
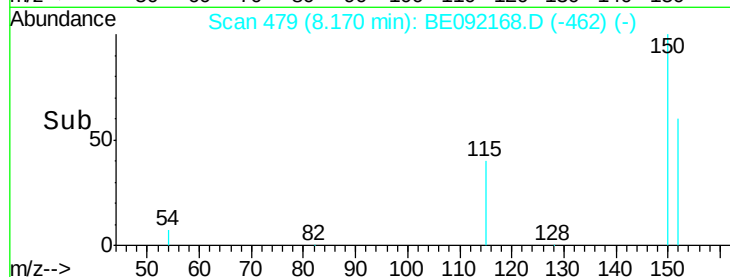
115 67.6 36.9 55.3#



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

1,4-Dioxane

Concen: 0.06 ng

RT: 3.43 min Scan# 73

Delta R.T. -0.01 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

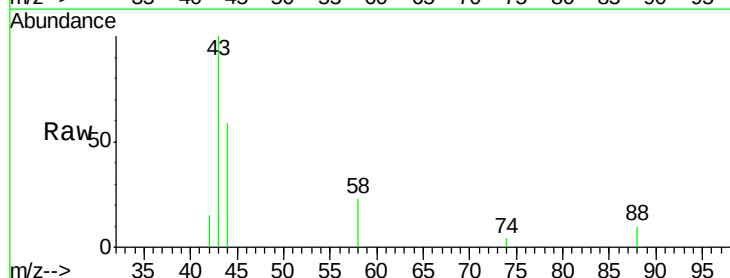
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

58 0.0 62.1 93.1#

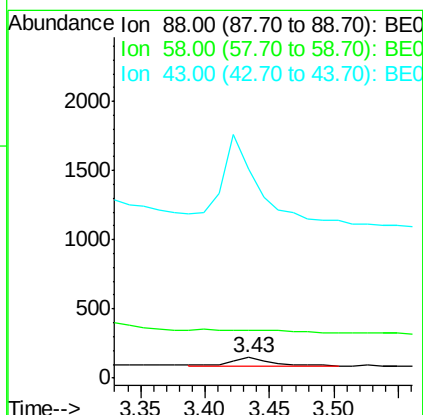
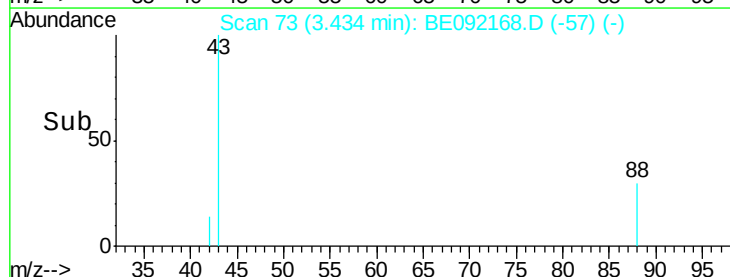
43 1550.0 27.2 40.8#

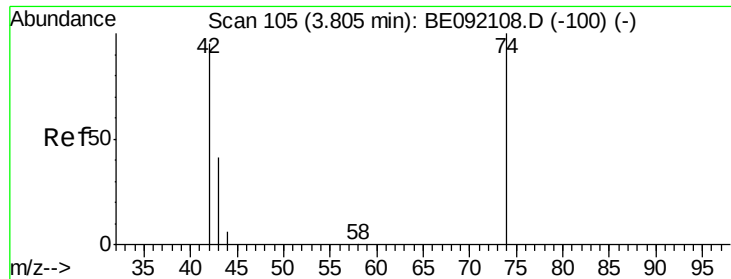


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.35 ng

RT: 3.71 min Scan# 97

Delta R.T. -0.09 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampled :

UST-1

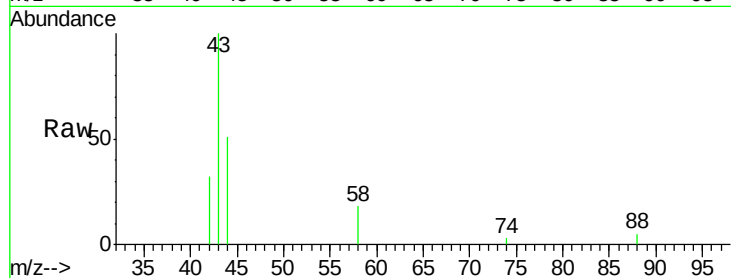
Tgt Ion: 42 Resp: 641

Ion Ratio Lower Upper

42 100

74 0.0 82.8 124.2#

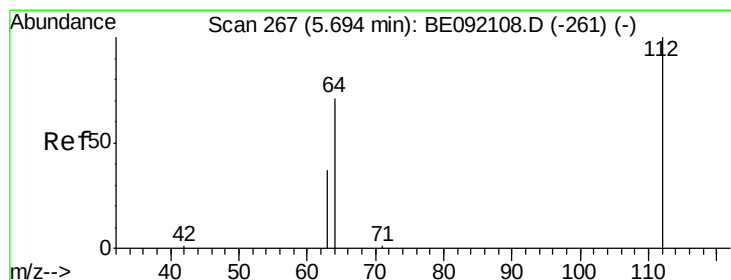
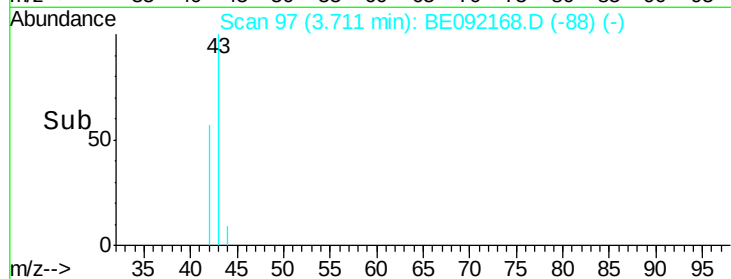
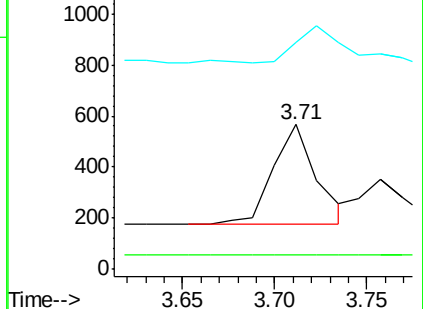
44 0.0 9.0 13.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 1.19 ng

RT: 5.70 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

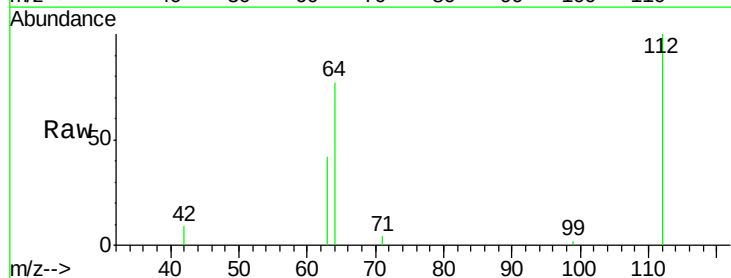
Tgt Ion: 112 Resp: 3936

Ion Ratio Lower Upper

112 100

64 66.7 55.9 83.9

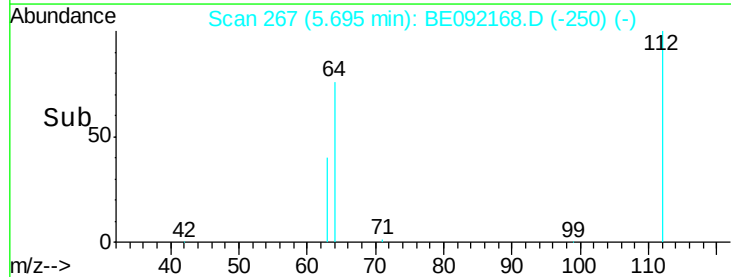
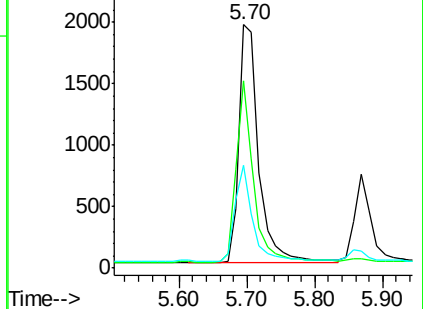
63 36.1 31.1 46.7

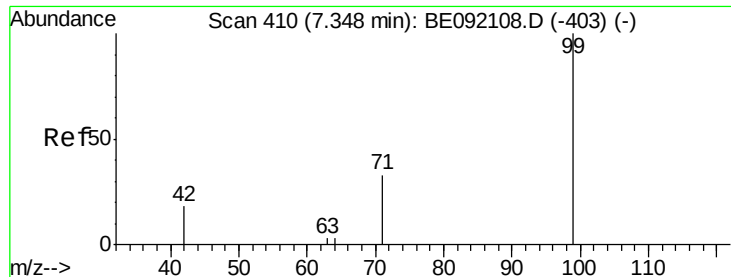


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.72 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

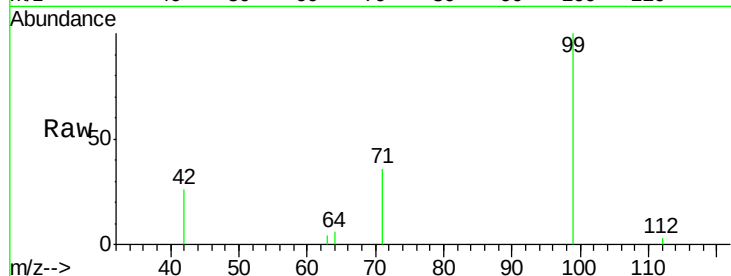
Tgt Ion: 99 Resp: 3178

Ion Ratio Lower Upper

99 100

42 23.2 22.4 33.6

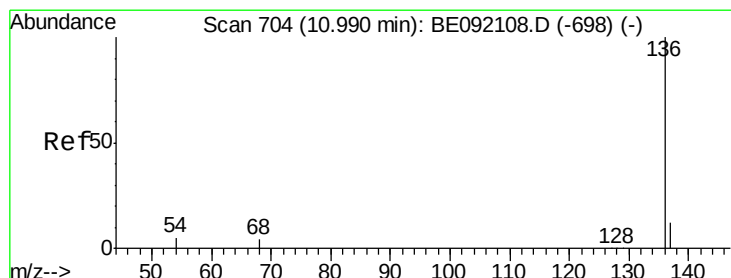
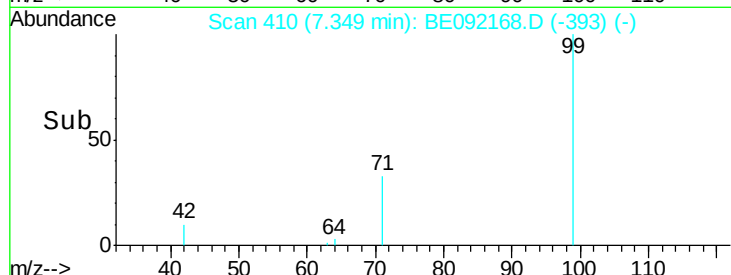
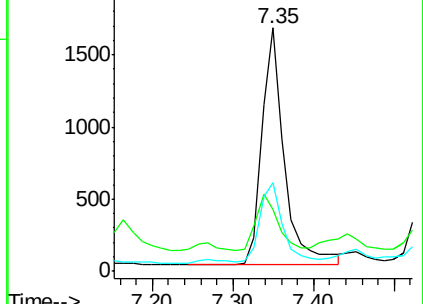
71 33.8 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Tgt Ion: 136 Resp: 56948

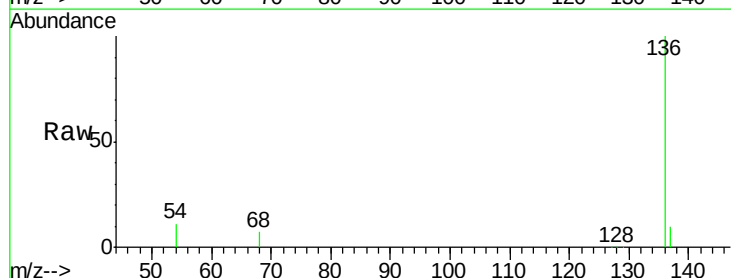
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 10.6 2.7 4.1#

68 7.4 2.2 3.4#

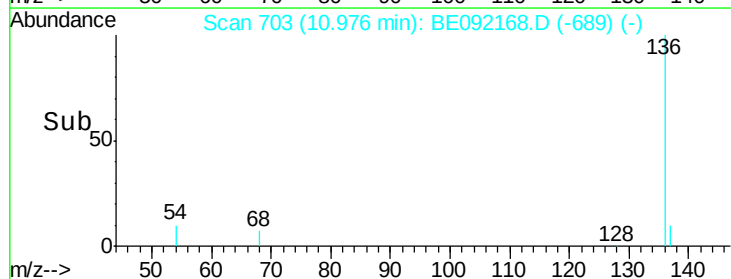
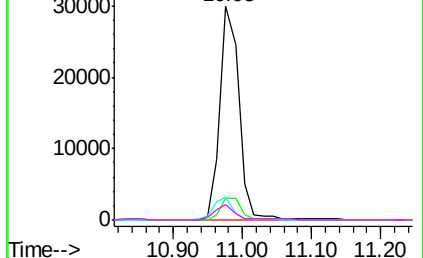


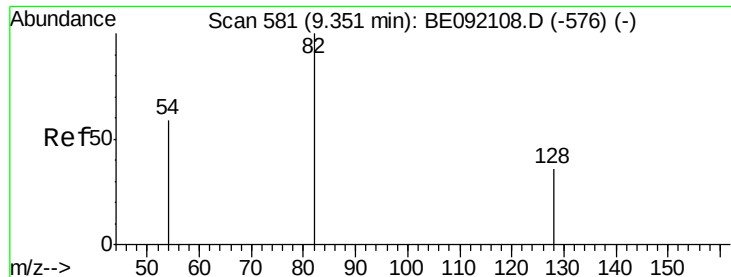
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 2.45 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

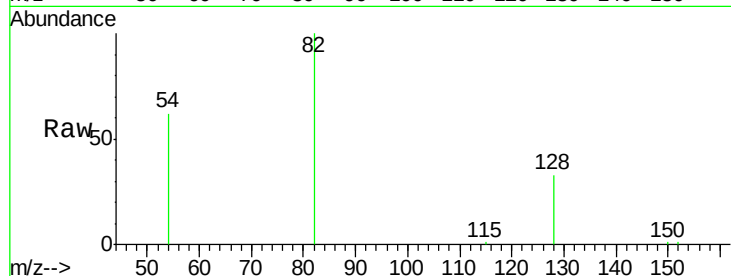
Tgt Ion: 82 Resp: 10994

Ion Ratio Lower Upper

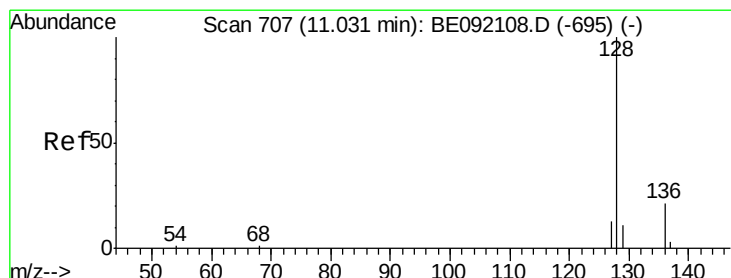
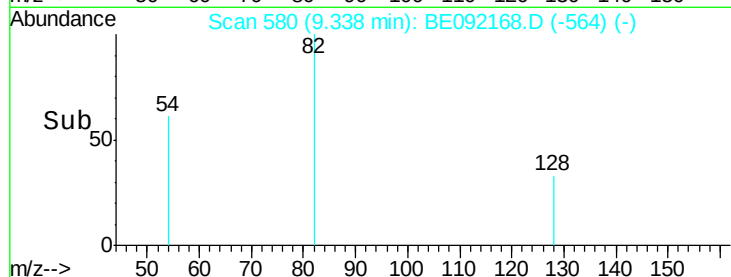
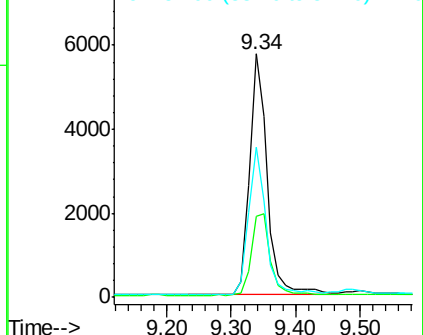
82 100

128 33.4 33.0 49.4

54 61.6 42.6 63.8



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#8

Naphthalene

Concen: 0.26 ng

RT: 11.03 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

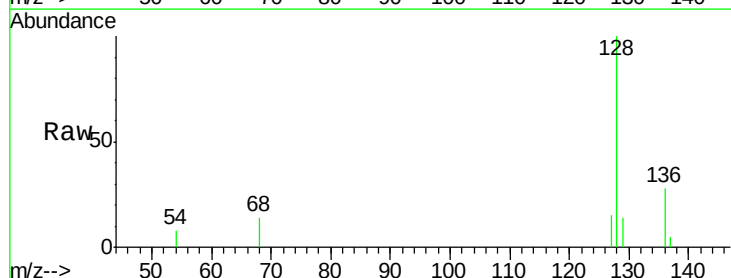
Tgt Ion: 128 Resp: 3332

Ion Ratio Lower Upper

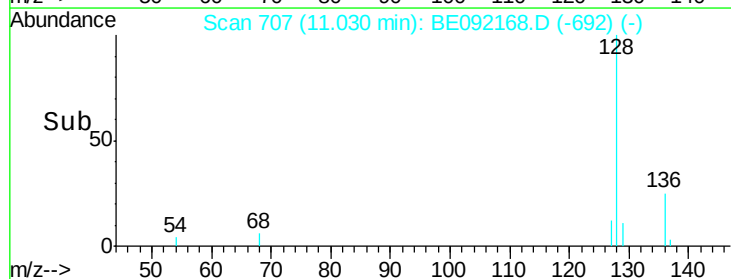
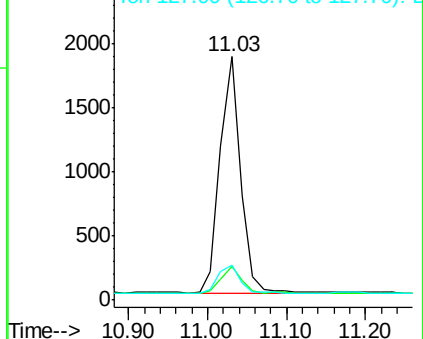
128 100

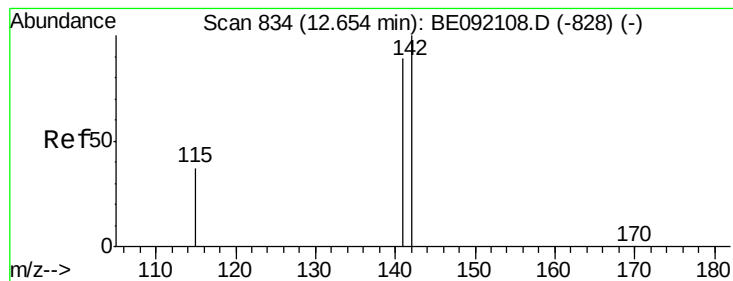
129 13.8 11.1 16.7

127 14.6 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#9

2-Methylnaphthalene

Concen: 0.33 ng

RT: 12.65 min Scan# 834

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

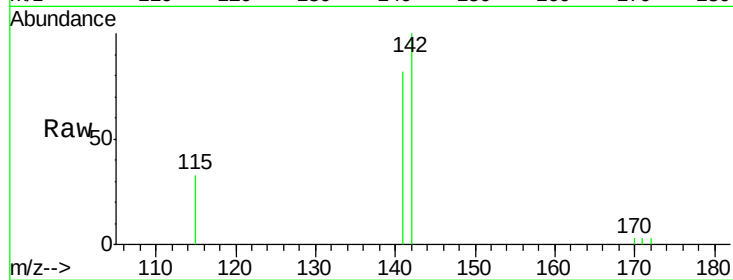
Tgt Ion:142 Resp: 2552

Ion Ratio Lower Upper

142 100

141 82.1 65.1 97.7

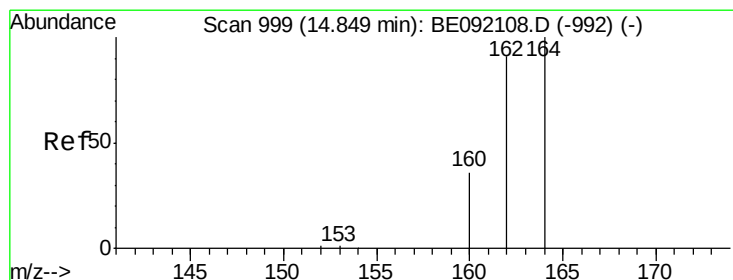
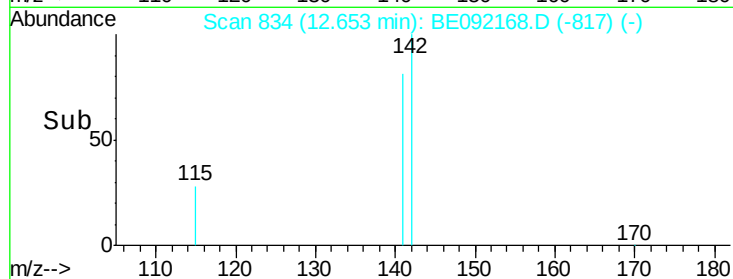
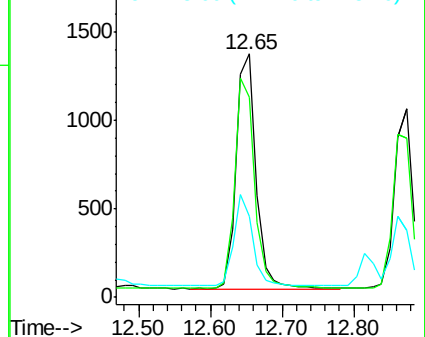
115 33.2 27.0 40.4



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

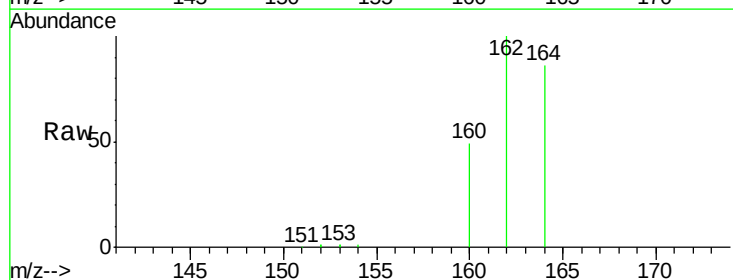
Tgt Ion:164 Resp: 29342

Ion Ratio Lower Upper

164 100

162 115.8 69.5 104.3#

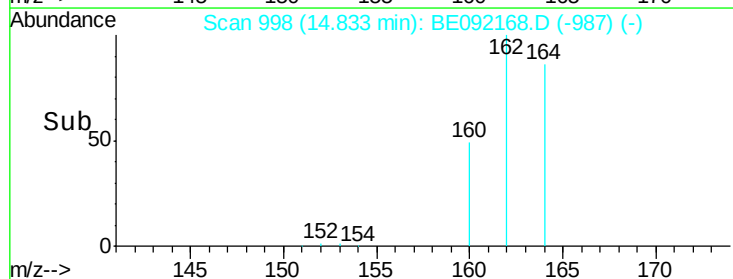
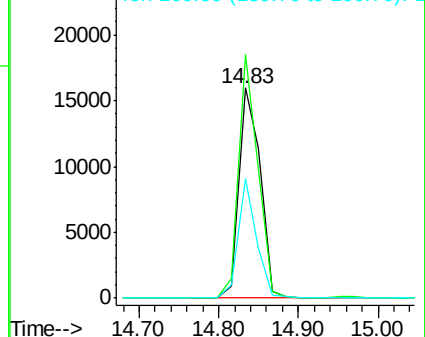
160 56.6 27.6 41.4#

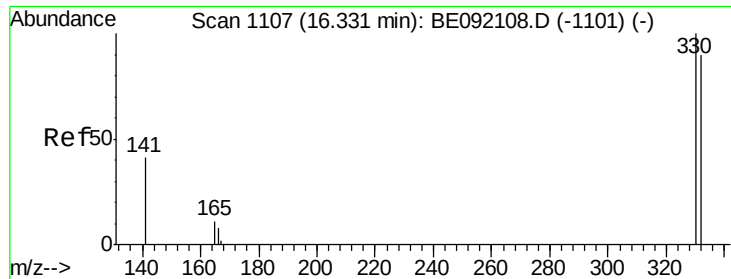


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

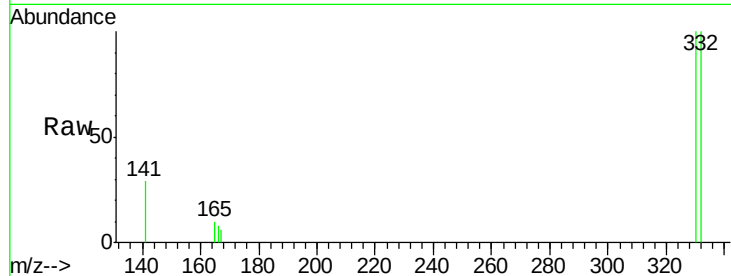




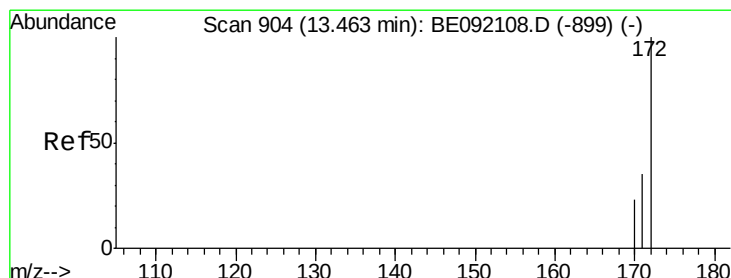
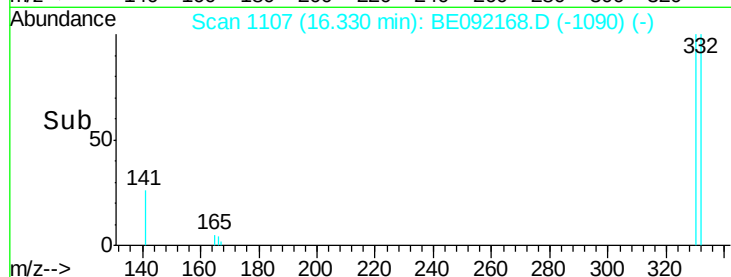
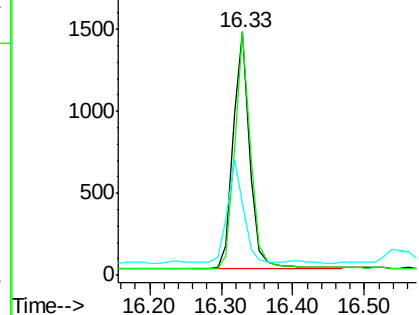
#11
 2,4,6-Tribromophenol
 Concen: 2.42 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: BE092168.D
 Acq: 4 Aug 2016 5:34

Instrument :
 BNA_E
 ClientSampleId :
 UST-1

Tgt Ion:330 Resp: 2301
 Ion Ratio Lower Upper
 330 100
 332 96.2 74.2 111.4
 141 43.1 139.8 209.8#

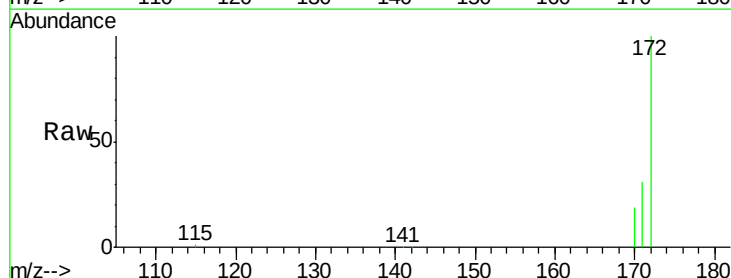


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

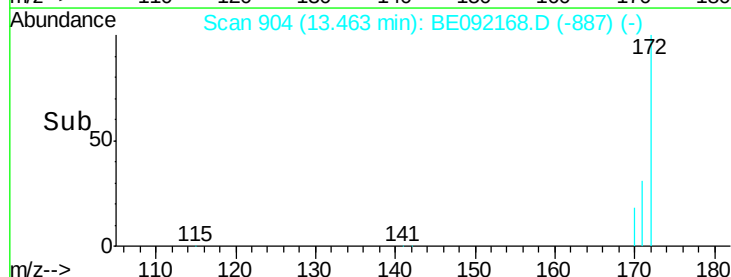
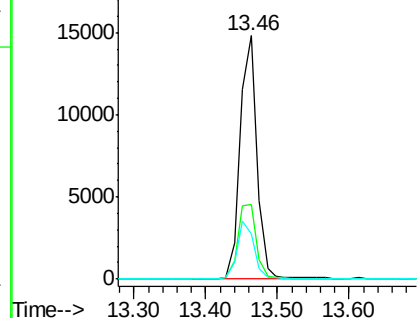


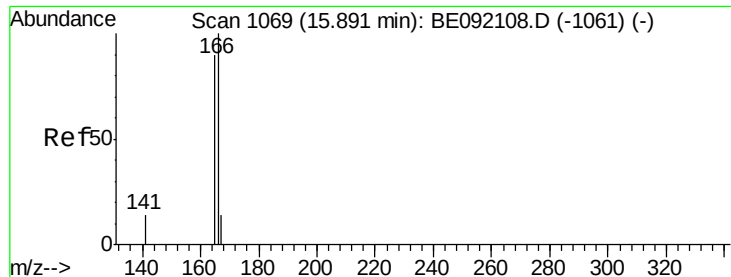
#12
 2-Fluorobiphenyl
 Concen: 2.55 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092168.D
 Acq: 4 Aug 2016 5:34

Tgt Ion:172 Resp: 23719
 Ion Ratio Lower Upper
 172 100
 171 30.7 30.3 45.5
 170 18.5 21.6 32.4#



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





#15

Fluorene

Concen: 0.02 ng

RT: 15.89 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

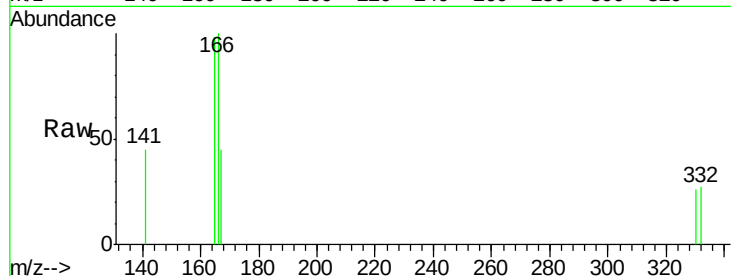
Tgt Ion:166 Resp: 217

Ion Ratio Lower Upper

166 100

165 130.4 78.6 118.0#

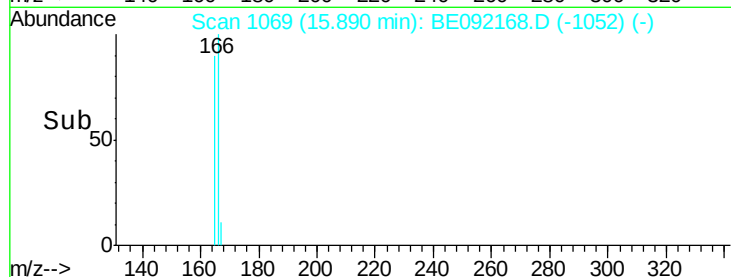
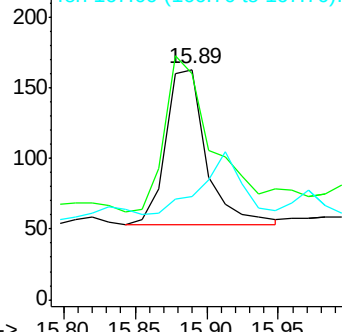
167 0.0 11.1 16.7#



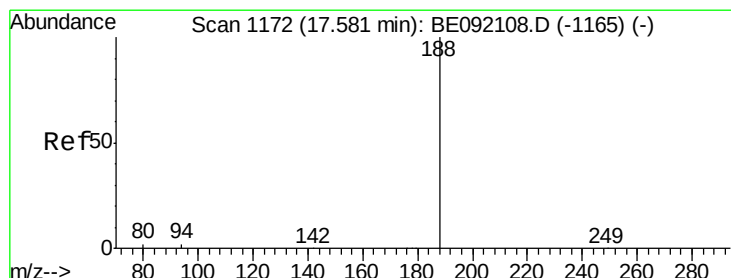
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

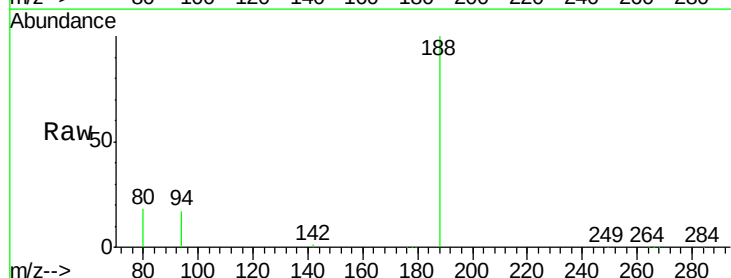
Tgt Ion:188 Resp: 59547

Ion Ratio Lower Upper

188 100

94 17.4 3.9 5.9#

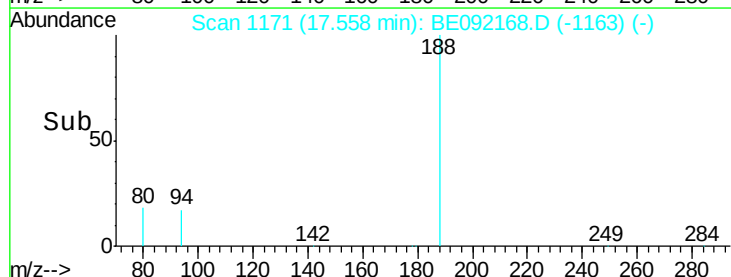
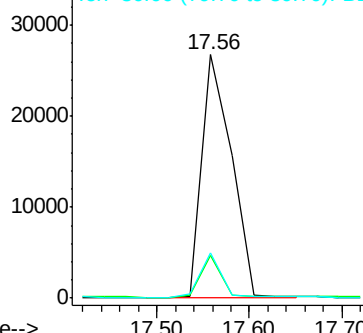
80 18.5 3.4 5.0#

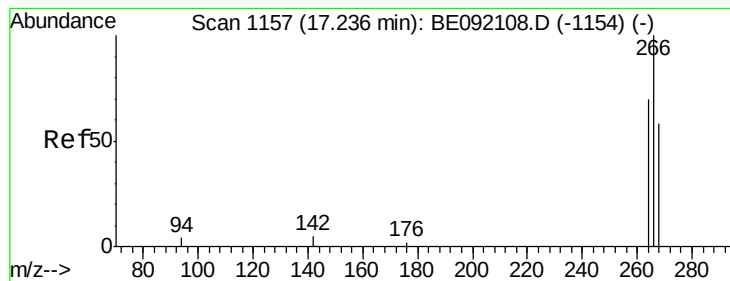


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#18

Pentachlorophenol

Concen: 0.21 ng

RT: 17.24 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

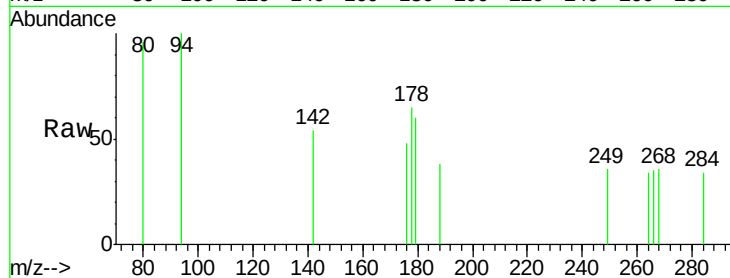
Tgt Ion:266 Resp: 17

Ion Ratio Lower Upper

266 100

268 102.1 62.7 94.1#

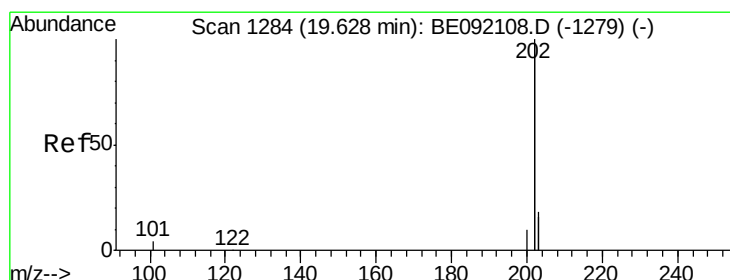
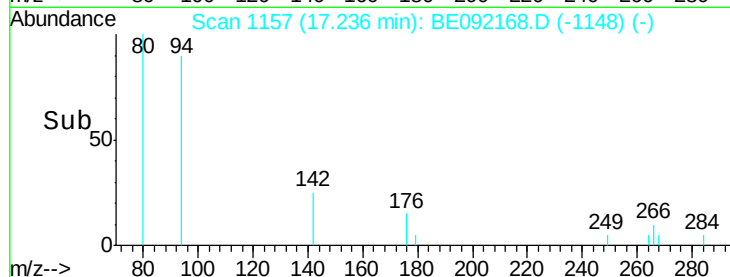
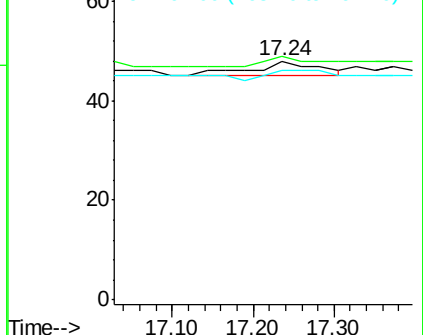
264 95.8 63.5 95.3#



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



#21

Fluoranthene

Concen: 0.02 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

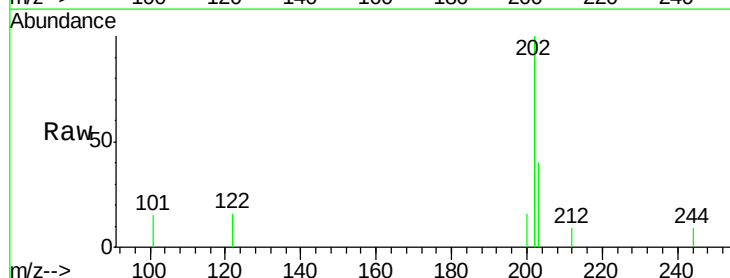
Tgt Ion:202 Resp: 1476

Ion Ratio Lower Upper

202 100

101 0.0 2.2 3.2#

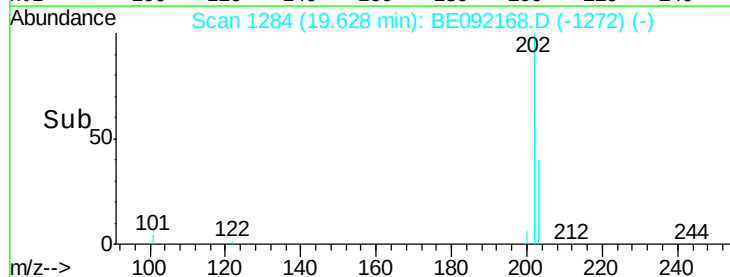
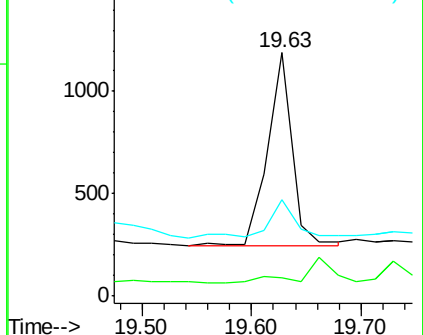
203 21.9 13.0 19.4#

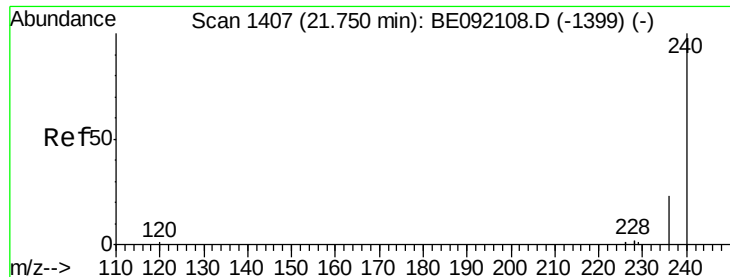


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

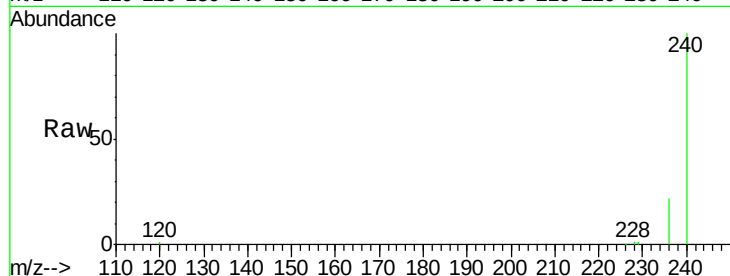
Tgt Ion:240 Resp: 66395

Ion Ratio Lower Upper

240 100

120 1.3 0.6 1.0#

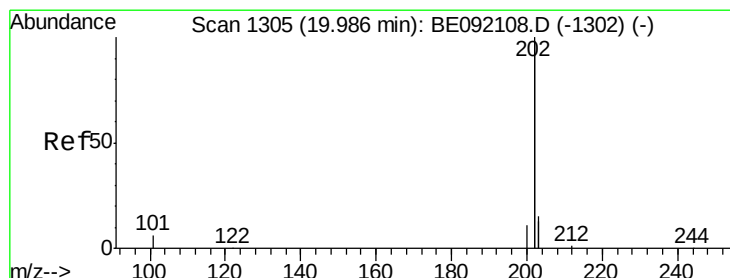
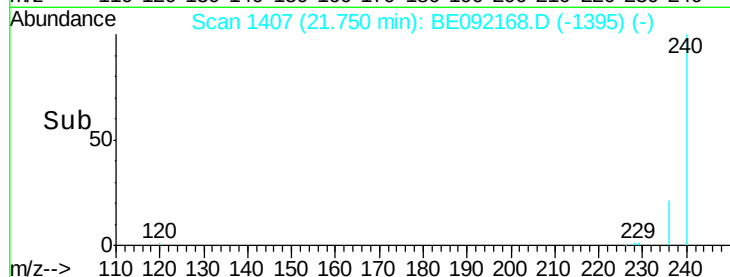
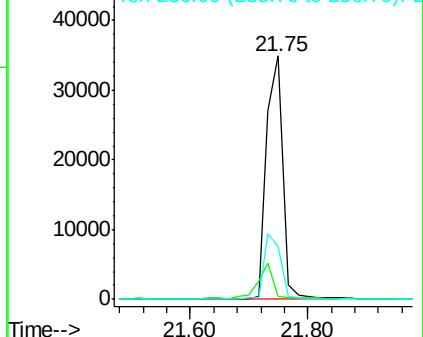
236 21.6 18.2 27.4



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



#23

Pyrene

Concen: 0.02 ng

RT: 19.99 min Scan# 1305

Delta R.T. -0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

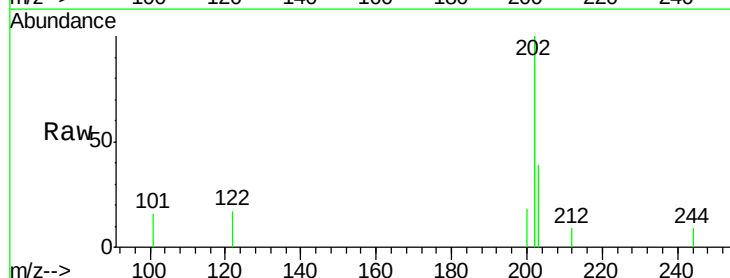
Tgt Ion:202 Resp: 1446

Ion Ratio Lower Upper

202 100

200 6.6 4.4 6.6

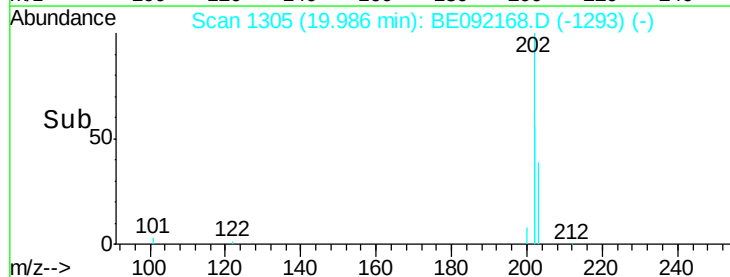
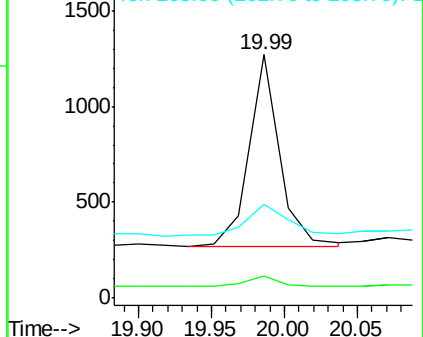
203 23.2 13.4 20.0#

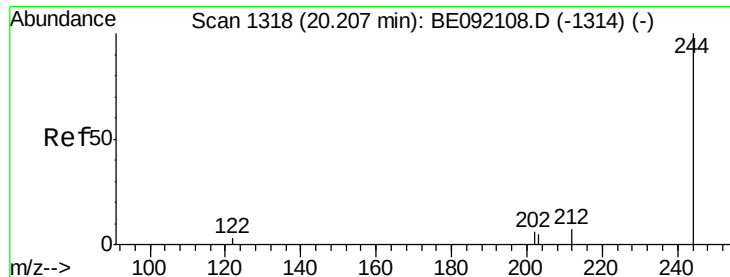


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 3.25 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

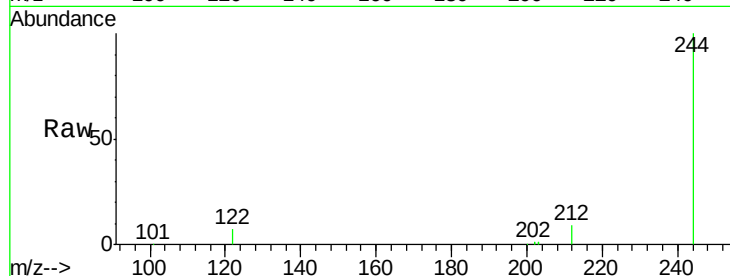
Tgt Ion:244 Resp: 30966

Ion Ratio Lower Upper

244 100

212 8.9 9.1 13.7#

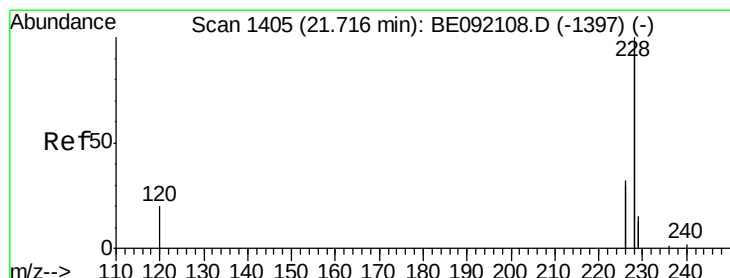
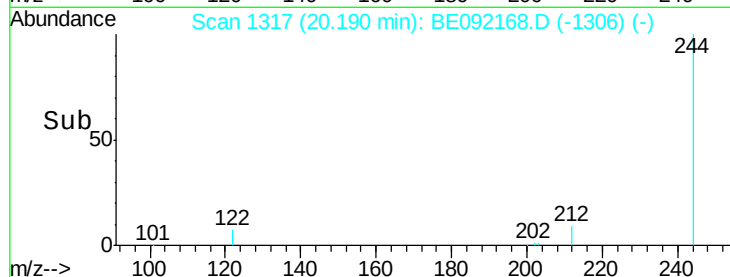
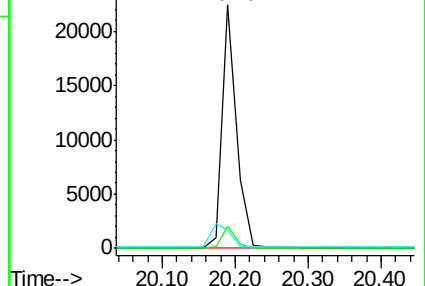
122 7.4 11.0 16.4#



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



#25

Benzo(a)anthracene

Concen: 0.06 ng

RT: 21.70 min Scan# 1404

Delta R.T. -0.02 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

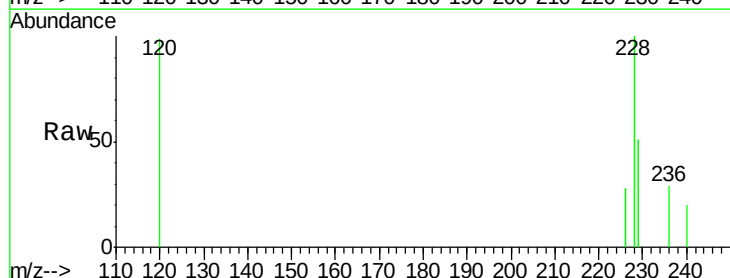
Tgt Ion:228 Resp: 4136

Ion Ratio Lower Upper

228 100

226 27.6 22.1 33.1

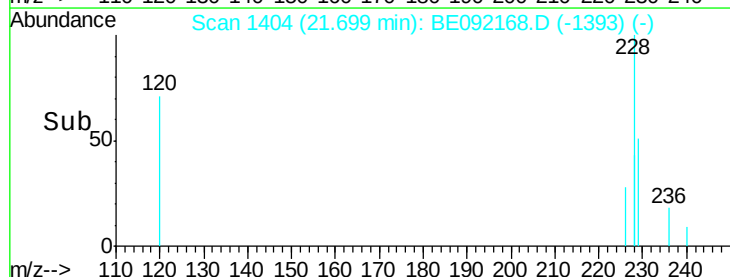
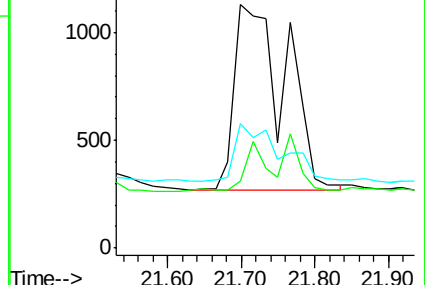
229 51.0 15.1 22.7#

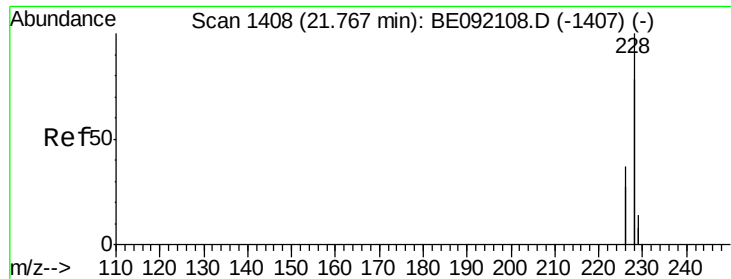


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 0.06 ng

RT: 21.70 min Scan# 1404

Delta R.T. -0.07 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1

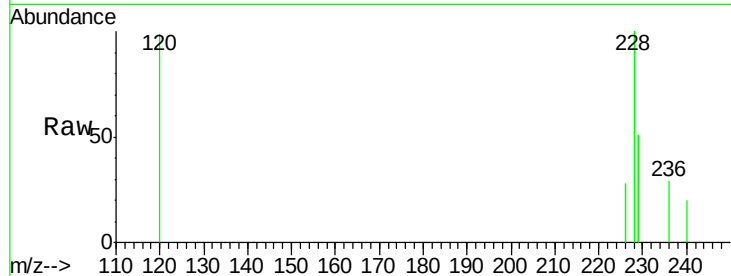
Tgt Ion:228 Resp: 4177

Ion Ratio Lower Upper

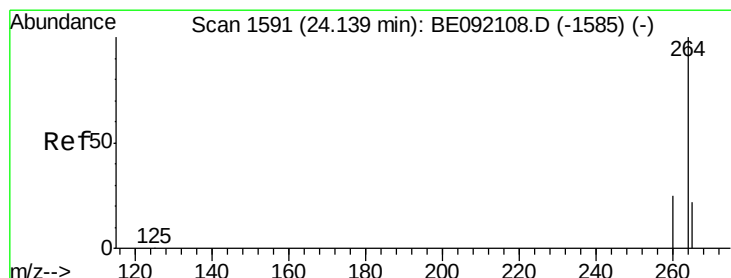
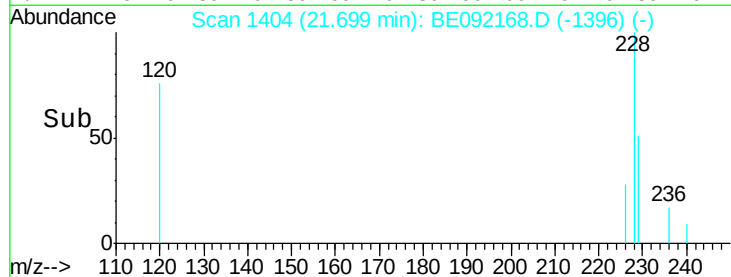
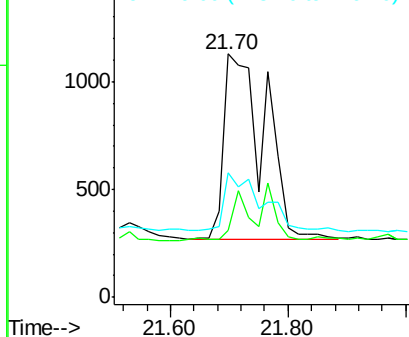
228 100

226 27.6 22.3 33.5

229 51.0 16.9 25.3#



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



#28

Perylene-d12

Concen: 5.00 ng

RT: 24.14 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BE092168.D

Acq: 4 Aug 2016 5:34

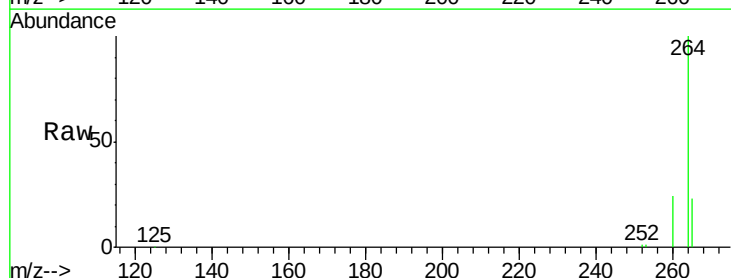
Tgt Ion:264 Resp: 70399

Ion Ratio Lower Upper

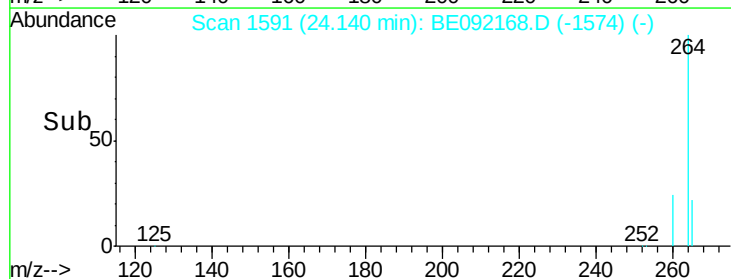
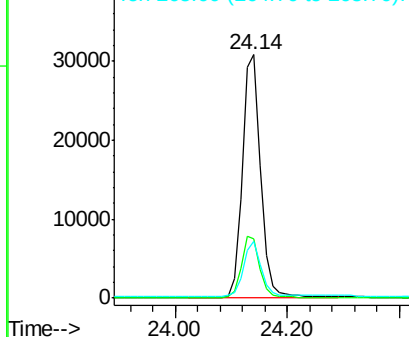
264 100

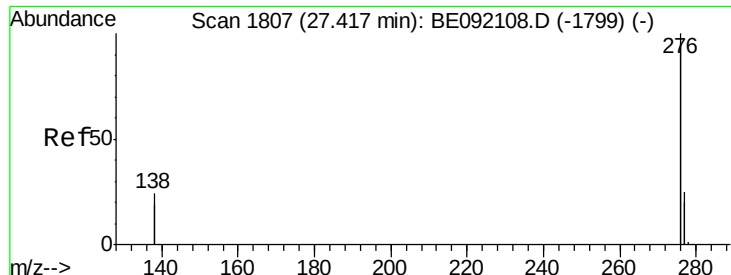
260 24.1 20.8 31.2

265 23.1 16.6 25.0



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





#33

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.42 min Scan# 1806

Delta R.T. -0.00 min

Lab File: BE092168.D

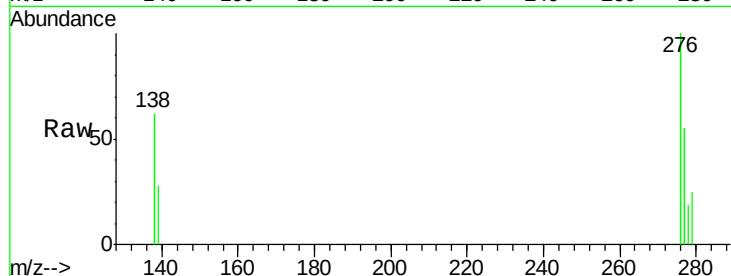
Acq: 4 Aug 2016 5:34

Instrument :

BNA_E

ClientSampleId :

UST-1



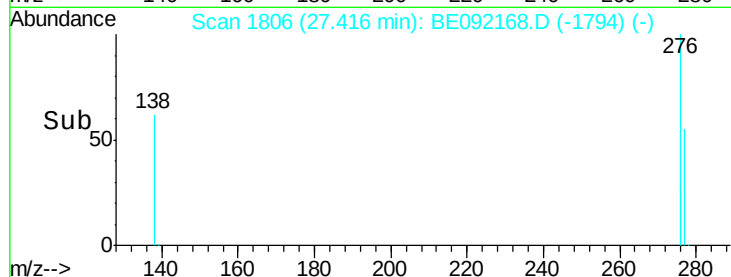
Tgt Ion: 276 Resp: 1460

Ion Ratio Lower Upper

276 100

277 55.5 19.5 29.3#

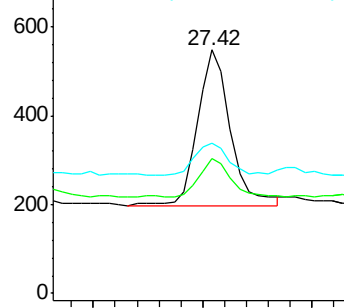
138 61.7 20.8 31.2#



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



Time-->