

Data Path : Z:\HPCHEM1\BNA E\Data\Be102116\
 Data File : BE092469.D
 Acq On : 21 Oct 2016 16:23
 Operator : UM/SJ
 Sample : SSTDCCC0.4EC
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 21 17:03:21 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.164	152	12913	5.00	ng	-0.02
7) Naphthalene-d8	10.952	136	64649	5.00	ng	0.00
12) Acenaphthene-d10	14.815	164	47232	5.00	ng	0.00
18) Phenanthrene-d10	17.579	188	92091	5.00	ng	0.02
24) Chrysene-d12	21.746	240	128316	5.00	ng	0.00
31) Perylene-d12	24.121	264	105043	5.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.681	112	880	0.40	ng	0.00
5) Phenol-d6	7.358	99	1162	0.35	ng	0.00
8) Nitrobenzene-d5	9.362	82	1432	0.44	ng	0.00
13) 2,4,6-Tribromophenol	16.318	330	415	0.40	ng	0.00
14) 2-Fluorobiphenyl	13.446	172	4745	0.42	ng	0.00
26) Terphenyl-d14	20.173	244	6462	0.41	ng	0.00

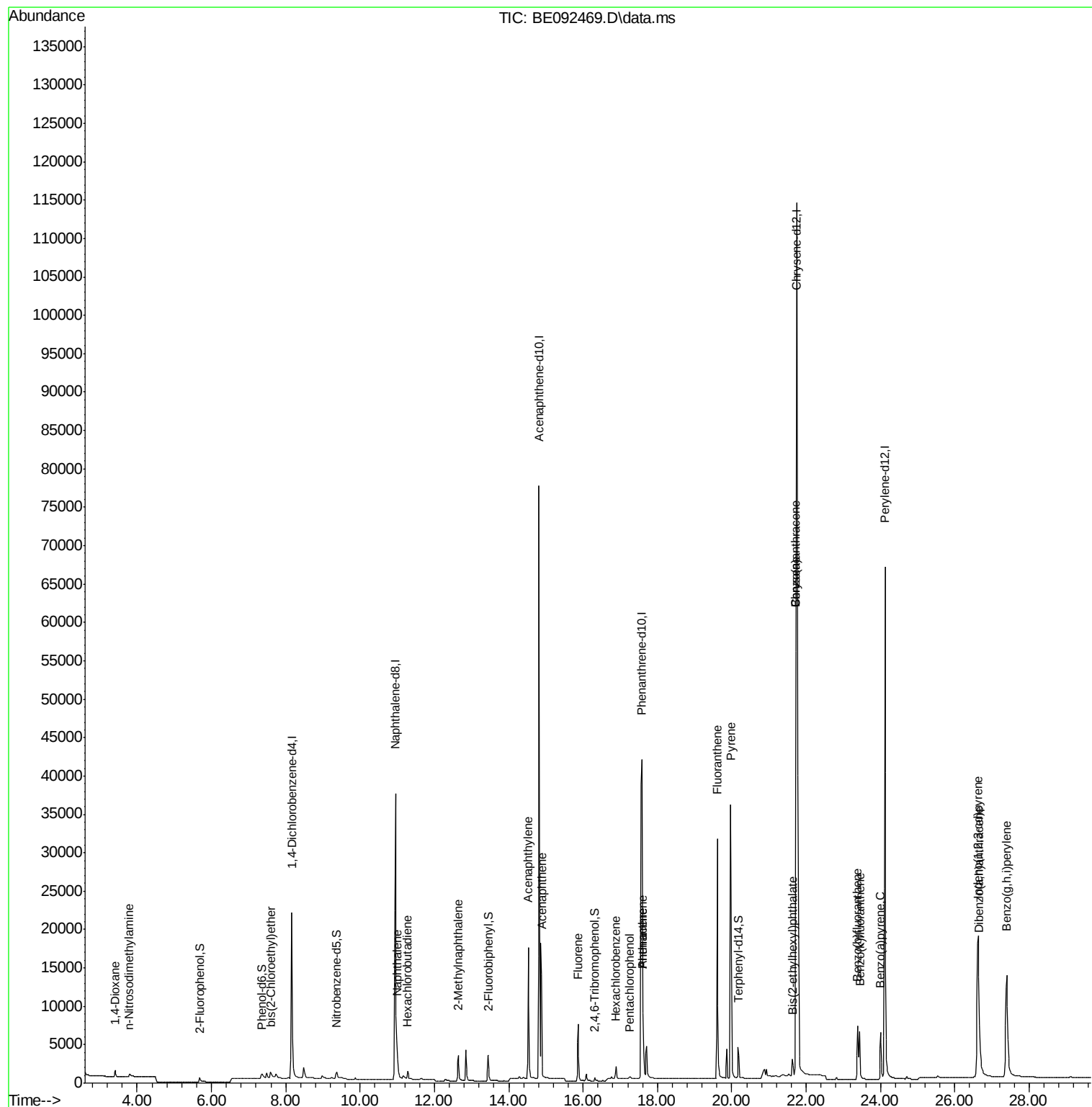
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.410	88	634	0.35	ng	95
3) n-Nitrosodimethylamine	3.791	42	607	0.48	ng	# 93
6) bis(2-Chloroethyl)ether	7.588	93	1113	0.41	ng	97
9) Naphthalene	10.991	128	5593	0.40	ng	97
10) Hexachlorobutadiene	11.279	225	851	0.39	ng	99
11) 2-Methylnaphthalene	12.636	142	3660	0.40	ng	94
15) Acenaphthylene	14.525	152	26825	0.39	ng	100
16) Acenaphthene	14.883	154	4392	0.41	ng	97
17) Fluorene	15.867	166	5301	0.39	ng	99
19) Hexachlorobenzene	16.888	284	1704	0.43	ng	# 65
20) Pentachlorophenol	17.257	266	315	0.39	ng	99
21) Phenanthrene	17.603	178	9527	0.45	ng	# 95
22) Anthracene	17.603	178	9410	0.46	ng	98
23) Fluoranthene	19.611	202	40708	0.40	ng	99
25) Pyrene	19.969	202	47550	0.43	ng	100
27) Benzo(a)anthracene	21.723	228	92173	0.74	ng	95
28) Chrysene	21.723	228	92959	0.81	ng	# 75
29) Bis(2-ethylhexyl)phtha...	21.633	149	3709	0.34	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.615	276	43171	0.36	ng	98
32) Benzo(b)fluoranthene	23.381	252	10068	0.40	ng	98
33) Benzo(k)fluoranthene	23.439	252	11212	0.42	ng	98
34) Benzo(a)pyrene	24.006	252	10023	0.40	ng	99
35) Dibenzo(a,h)anthracene	26.650	278	8973	0.39	ng	98
36) Benzo(g,h,i)perylene	27.399	276	37325	0.38	ng	98

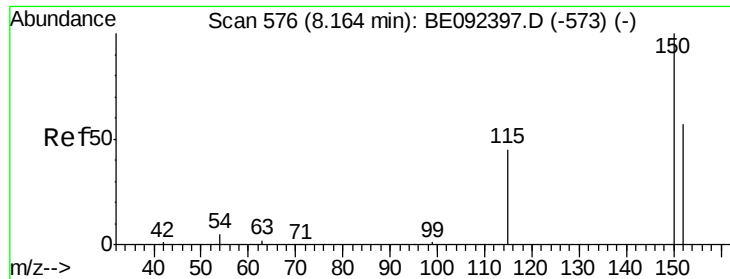
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\Data\Be102116\
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Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampled :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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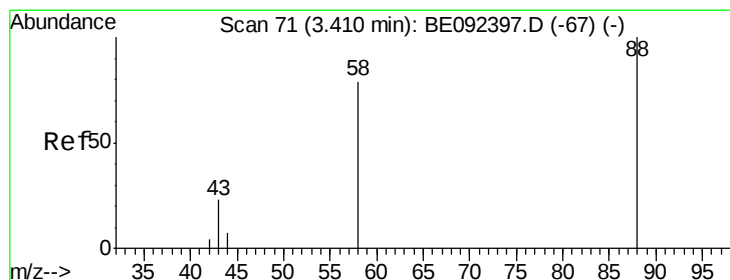
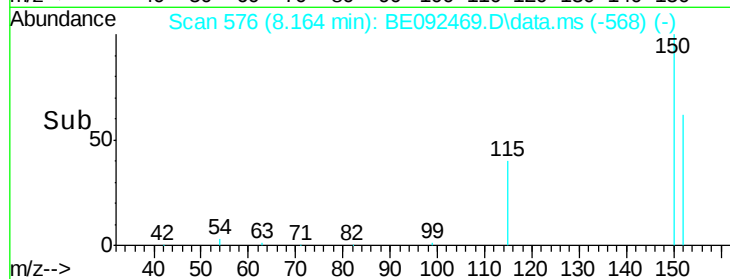
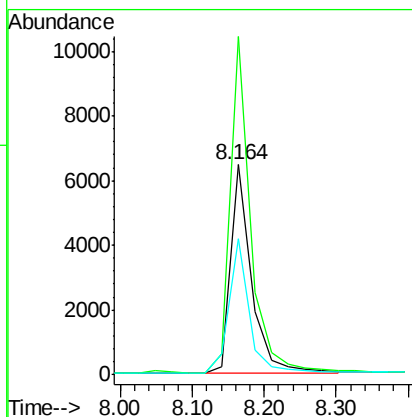
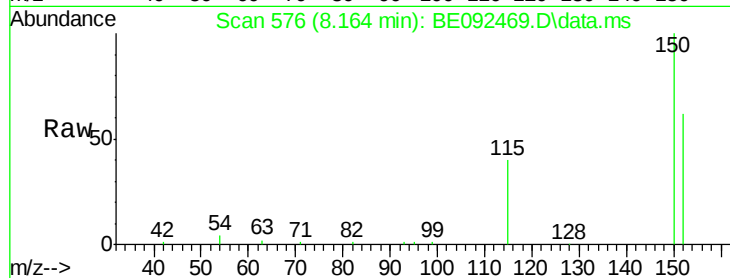




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.164 min Scan# 57
 Delta R.T. -0.023 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

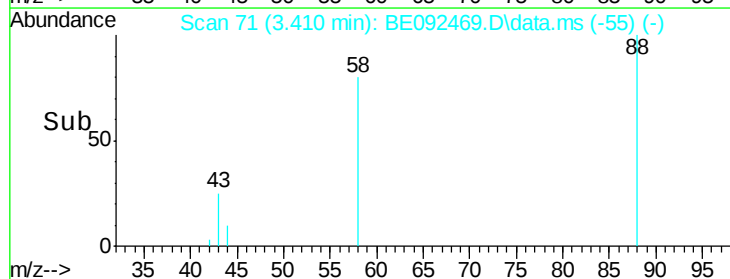
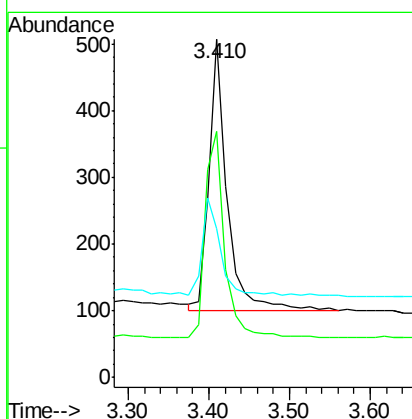
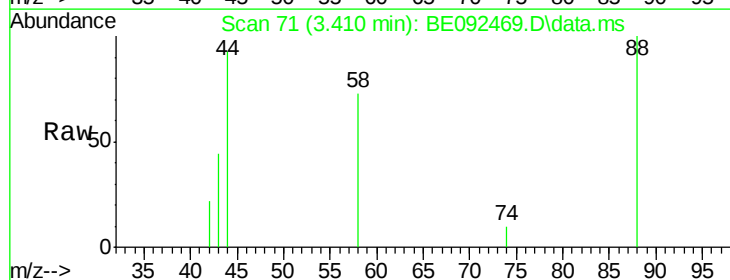
Instrument :
 BNA_E
 ClientSampleId :

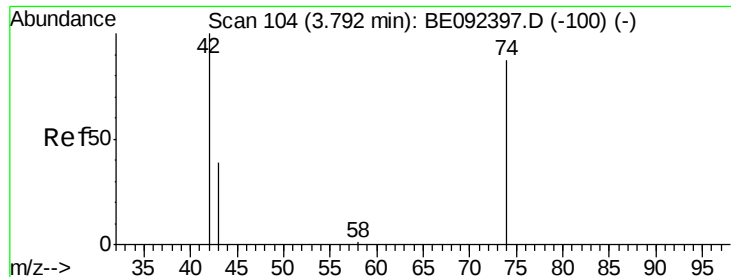
Tot Ion:152 Resp: 12913
 Ion Ratio Lower Upper
 152 100
 150 161.3 106.0 159.0#
 115 64.6 31.2 46.8#



#2
 1,4-Dioxane
 Concen: 0.35 ng
 RT: 3.410 min Scan# 71
 Delta R.T. -0.011 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

Tgt Ion: 88 Resp: 634
 Ion Ratio Lower Upper
 88 100
 58 84.9 63.6 95.4
 43 37.4 28.0 42.0





#3

n-Nitrosodimethylamine

Concen: 0.48 ng

RT: 3.791 min Scan# 10

Delta R.T. -0.011 min

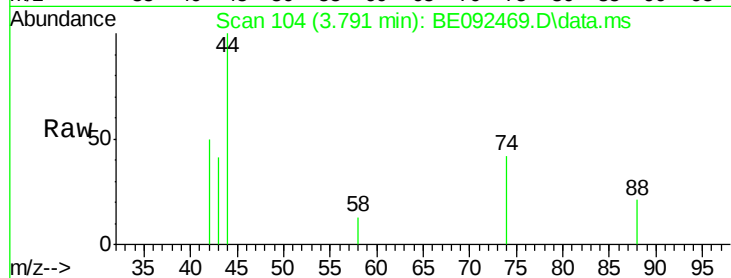
Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :



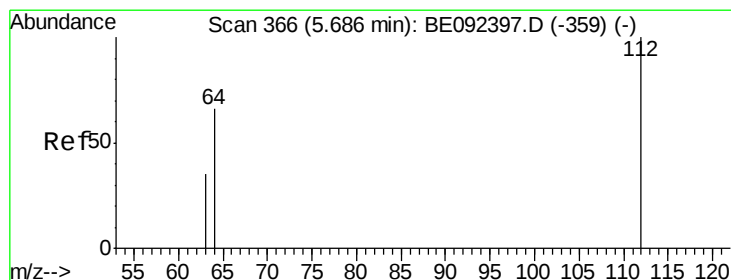
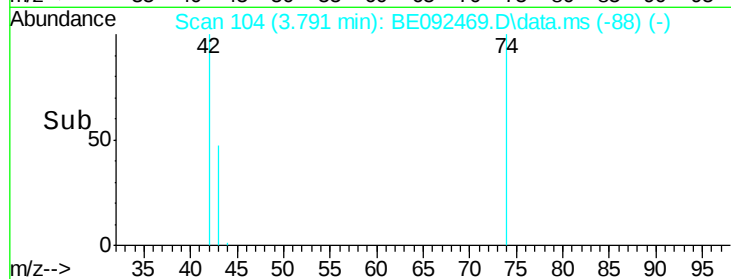
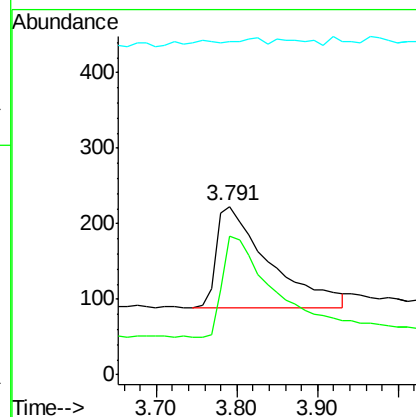
Tot Ion: 42 Resp: 607

Ion Ratio Lower Upper

42 100

74 100.7 86.0 129.0

44 0.0 5.1 7.7#



#4

2-Fluorophenol

Concen: 0.40 ng

RT: 5.681 min Scan# 365

Delta R.T. -0.005 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

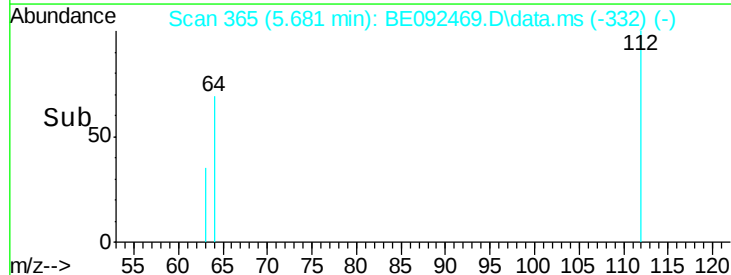
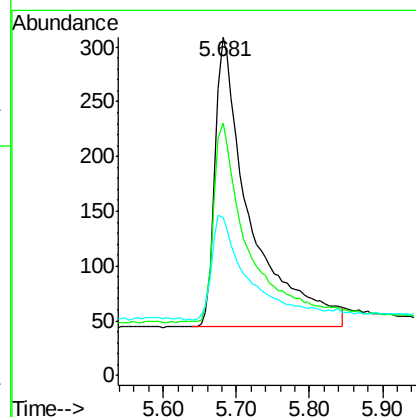
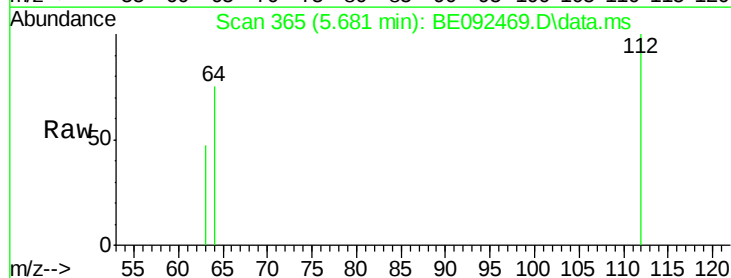
Tgt Ion: 112 Resp: 880

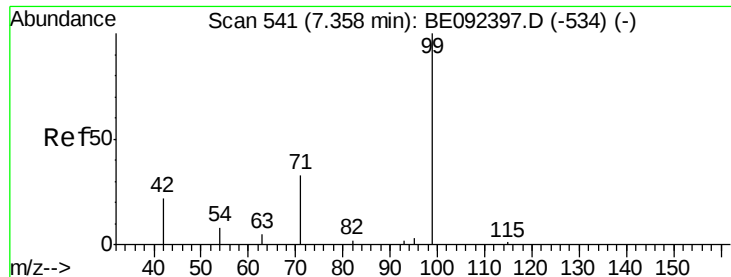
Ion Ratio Lower Upper

112 100

64 68.6 53.5 80.3

63 38.0 27.9 41.9





#5

Phenol-d6

Concen: 0.35 ng

RT: 7.358 min Scan# 541

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

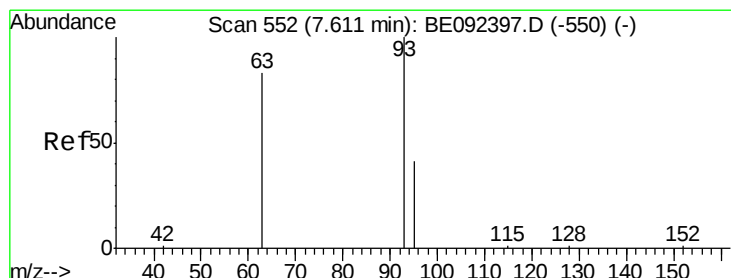
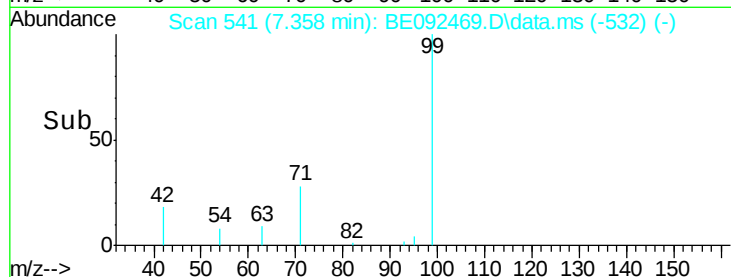
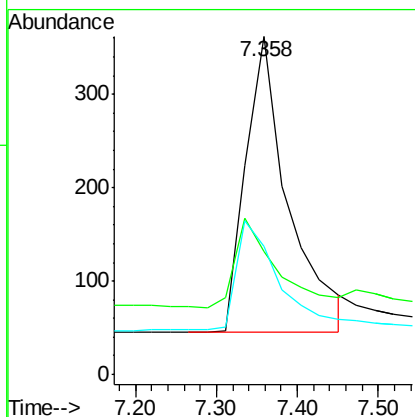
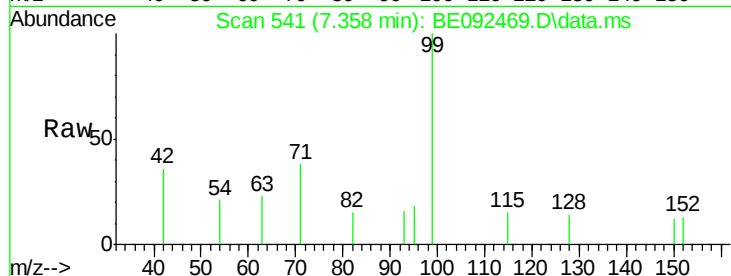
Tot Ion: 99 Resp: 1162

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

71 0.0 30.6 45.8#



#6

bis(2-Chloroethyl)ether

Concen: 0.41 ng

RT: 7.588 min Scan# 551

Delta R.T. -0.023 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

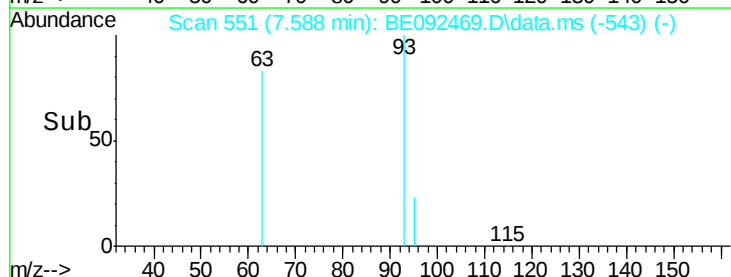
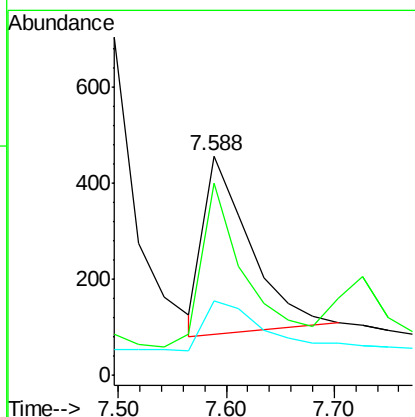
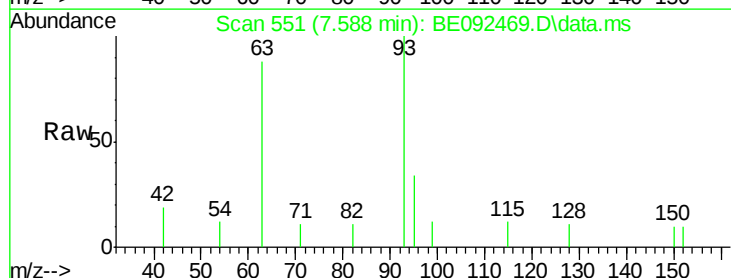
Tgt Ion: 93 Resp: 1113

Ion Ratio Lower Upper

93 100

63 89.9 71.6 107.4

95 35.2 24.0 36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.952 min Scan# 70

Delta R.T. 0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 64649

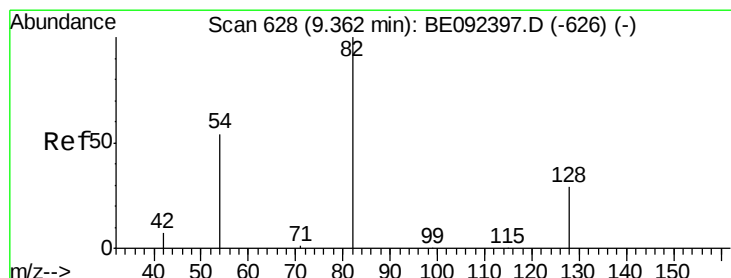
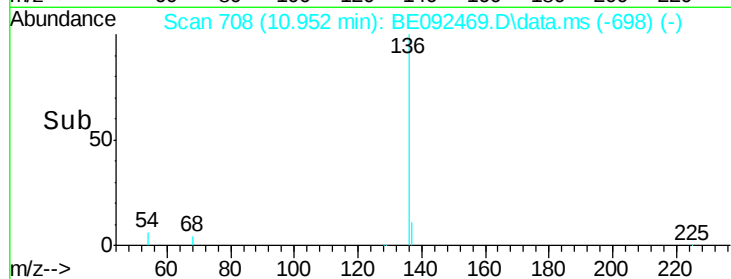
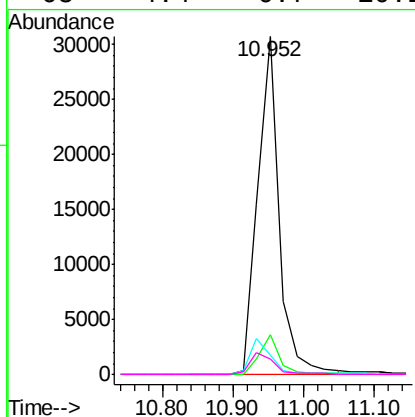
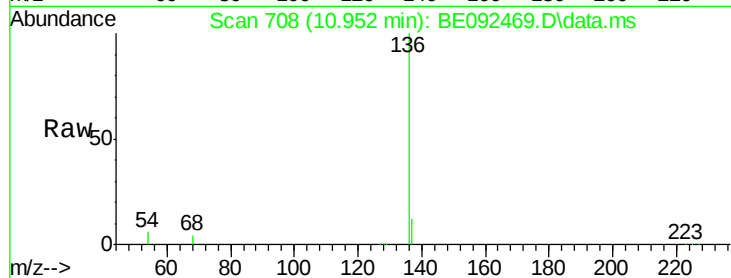
Ion Ratio Lower Upper

136 100

137 11.6 8.2 12.4

54 5.8 9.6 14.4#

68 4.4 6.7 10.1#



#8

Nitrobenzene-d5

Concen: 0.44 ng

RT: 9.362 min Scan# 628

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

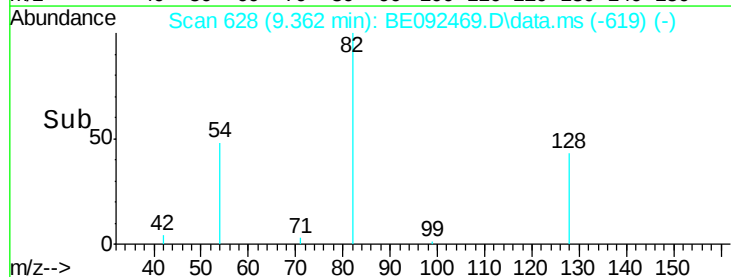
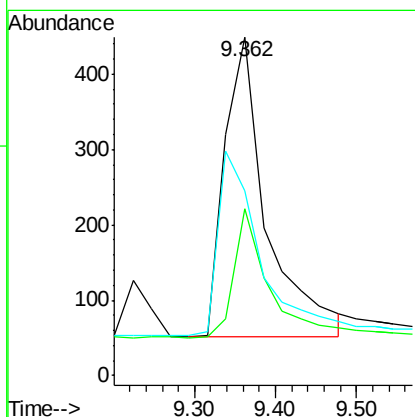
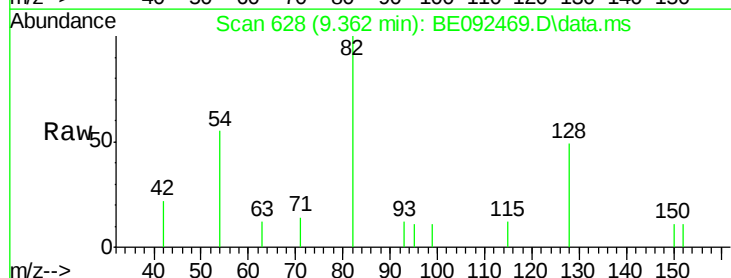
Tgt Ion: 82 Resp: 1432

Ion Ratio Lower Upper

82 100

128 49.2 39.0 58.4

54 54.6 44.8 67.2





#9

Naphthalene

Concen: 0.40 ng

RT: 10.991 min Scan# 711

Delta R.T. -0.019 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

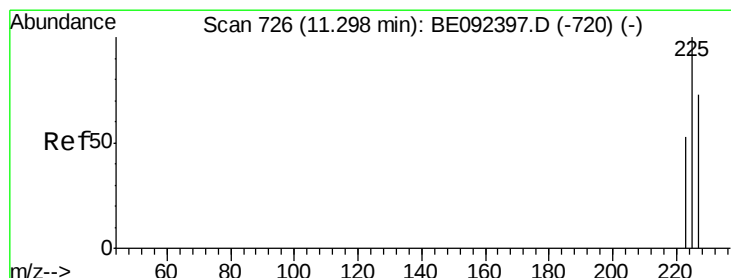
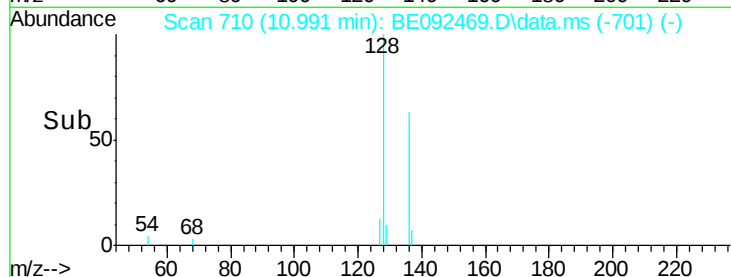
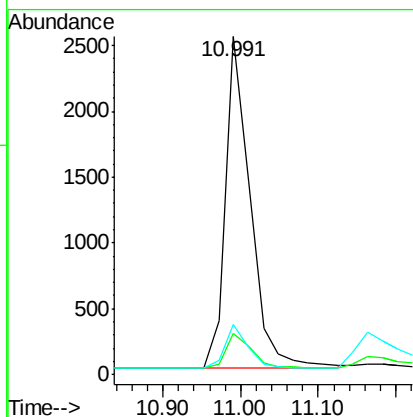
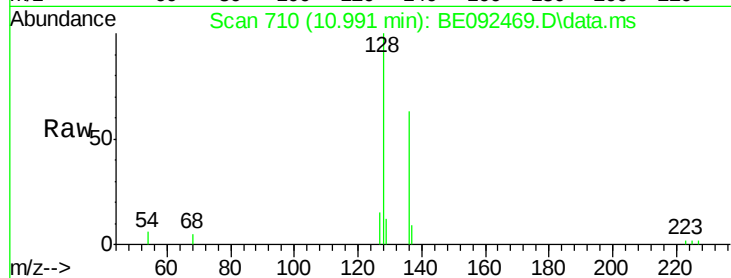
Tot Ion:128 Resp: 5593

Ion Ratio Lower Upper

128 100

129 12.1 11.2 16.8

127 15.0 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.39 ng

RT: 11.279 min Scan# 725

Delta R.T. -0.019 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

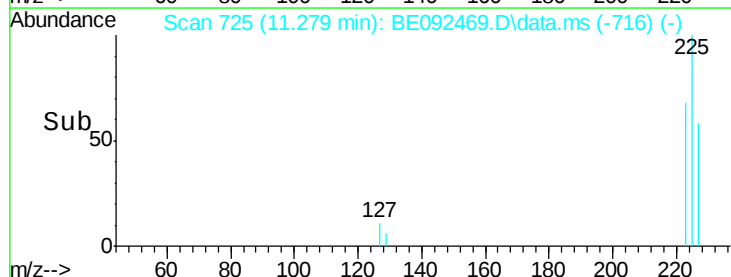
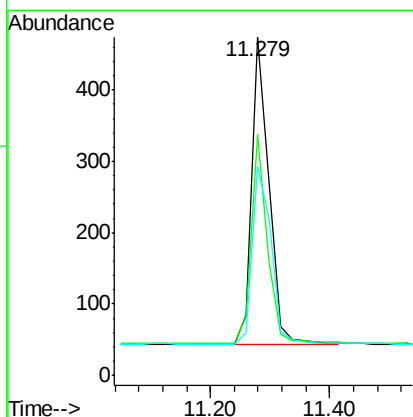
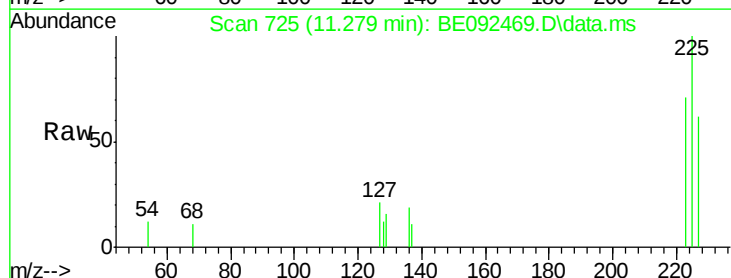
Tgt Ion:225 Resp: 851

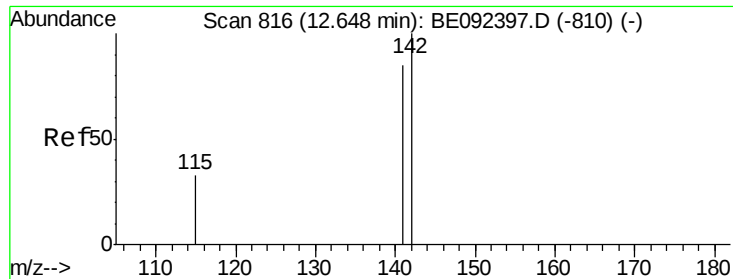
Ion Ratio Lower Upper

225 100

223 63.6 50.6 76.0

227 63.7 51.4 77.0

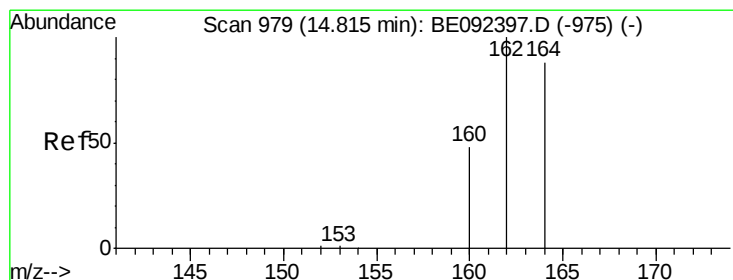
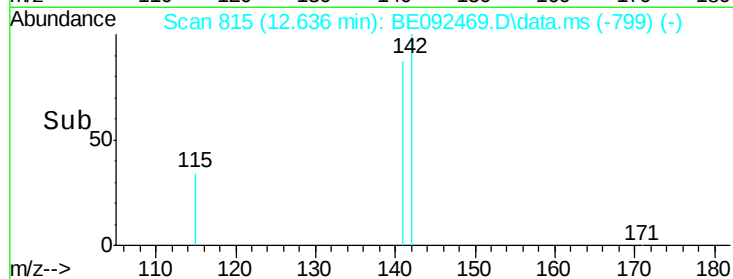
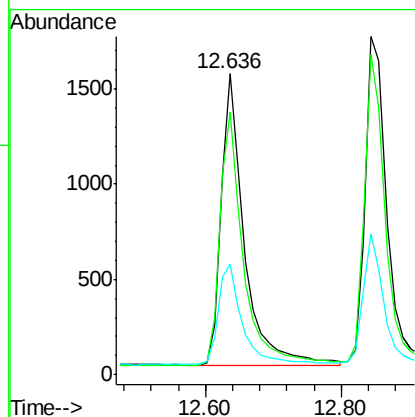
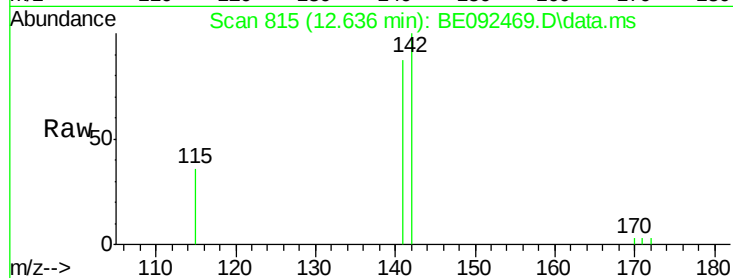




#11
2-Methylnaphthalene
Concen: 0.40 ng
RT: 12.636 min Scan# 81
Delta R.T. -0.011 min
Lab File: BE092469.D
Acq: 21 Oct 2016 16:23

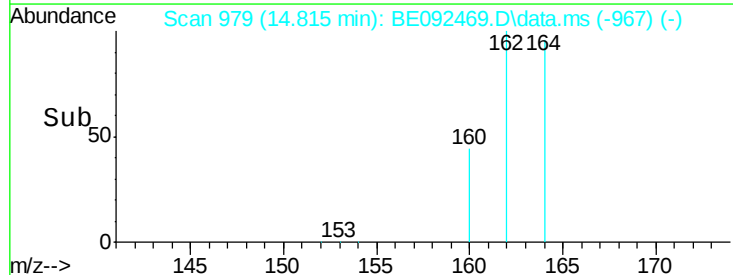
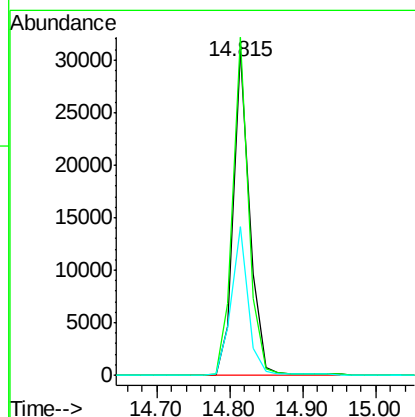
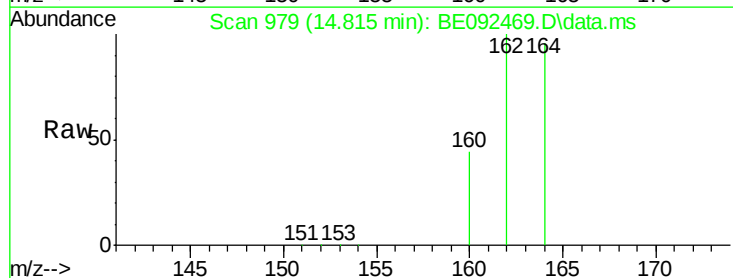
Instrument :
BNA_E
ClientSampleId :

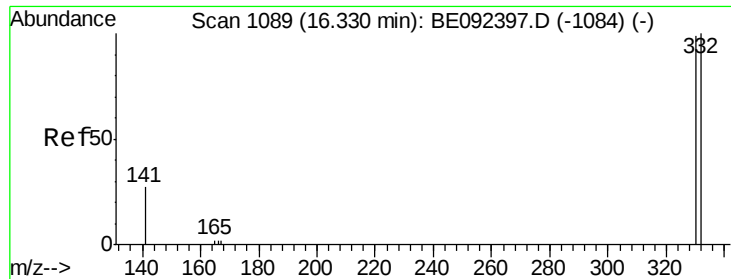
Tot Ion:142 Resp: 3660
Ion Ratio Lower Upper
142 100
141 87.3 73.7 110.5
115 36.5 34.0 51.0



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.815 min Scan# 979
Delta R.T. -0.001 min
Lab File: BE092469.D
Acq: 21 Oct 2016 16:23

Tgt Ion:164 Resp: 47232
Ion Ratio Lower Upper
164 100
162 104.5 71.4 107.0
160 46.1 27.4 41.2#

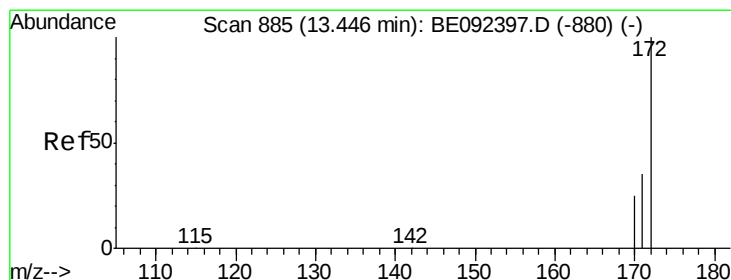
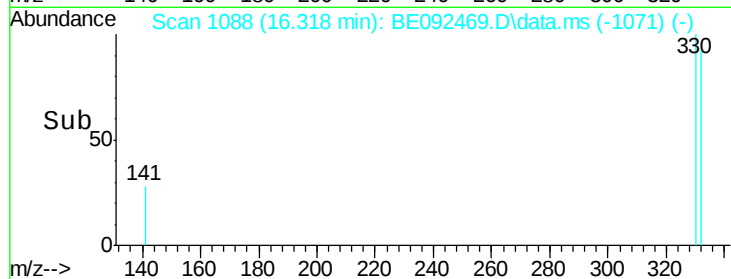
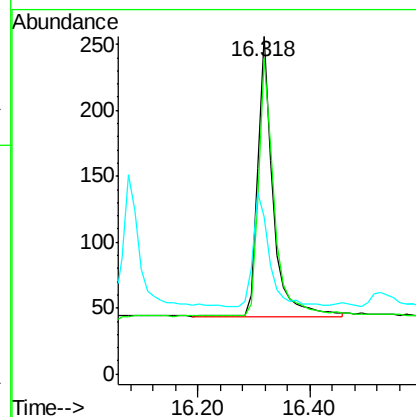
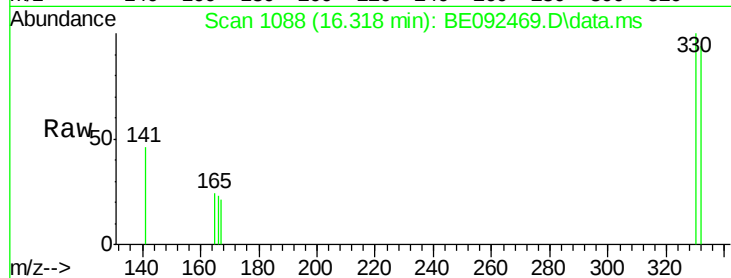




#13
 2,4,6-Tribromophenol
 Concen: 0.40 ng
 RT: 16.318 min Scan# 1088
 Delta R.T. 0.000 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

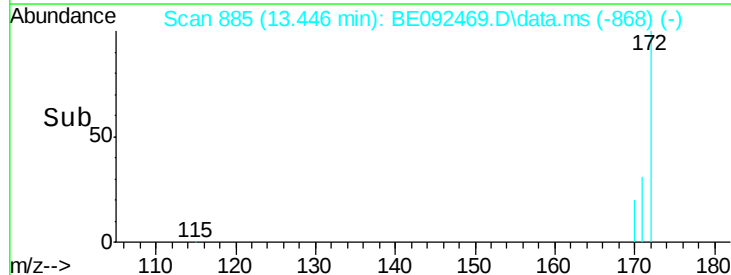
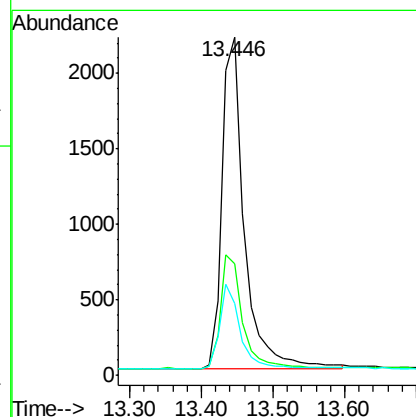
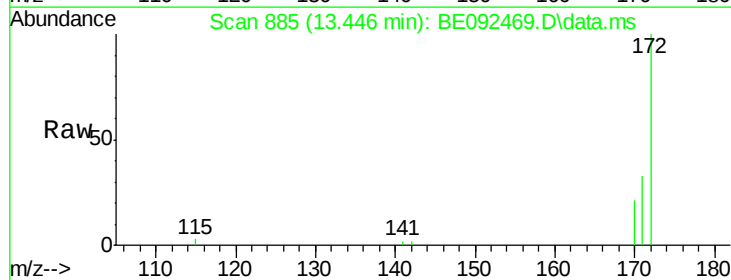
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 415
 Ion Ratio Lower Upper
 330 100
 332 96.6 75.4 113.0
 141 42.7 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.42 ng
 RT: 13.446 min Scan# 885
 Delta R.T. 0.000 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

Tgt Ion:172 Resp: 4745
 Ion Ratio Lower Upper
 172 100
 171 32.9 30.1 45.1
 170 21.3 21.8 32.6#





#15

Acenaphthylene

Concen: 0.39 ng

RT: 14.525 min Scan# 96

Delta R.T. -0.001 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

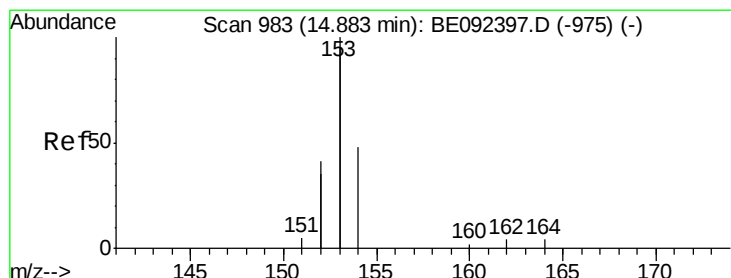
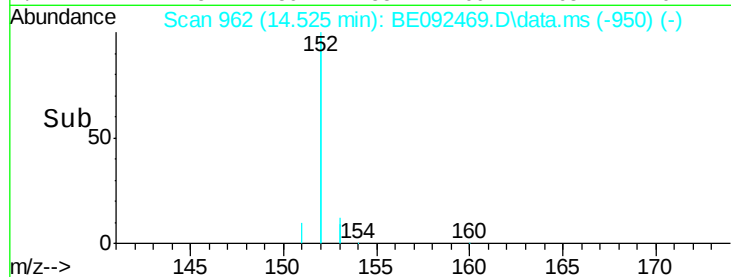
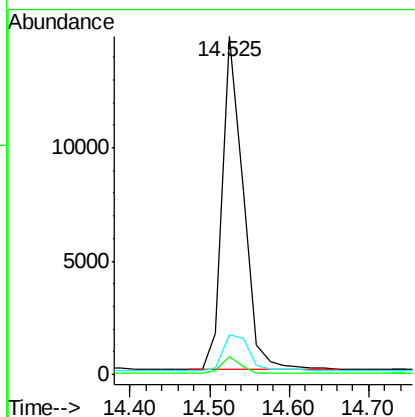
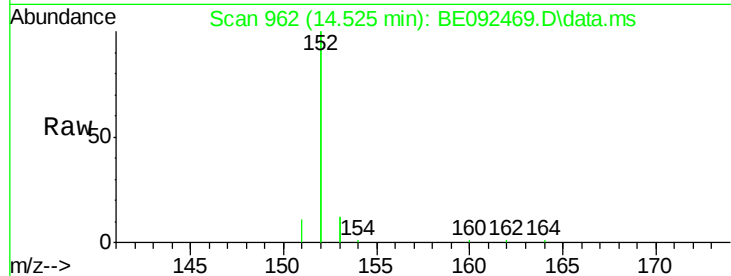
Tot Ion:152 Resp: 26825

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.0 10.4 15.6



#16

Acenaphthene

Concen: 0.41 ng

RT: 14.883 min Scan# 983

Delta R.T. -0.001 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

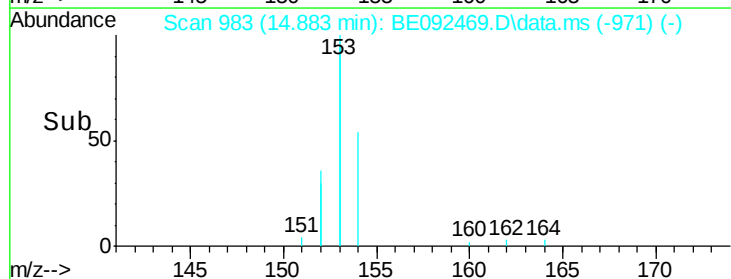
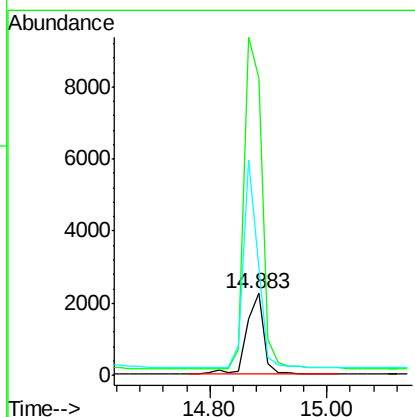
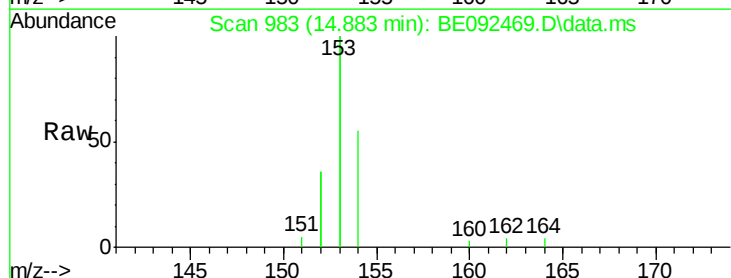
Tgt Ion:154 Resp: 4392

Ion Ratio Lower Upper

154 100

153 441.9 350.8 526.2

152 224.3 171.1 256.7

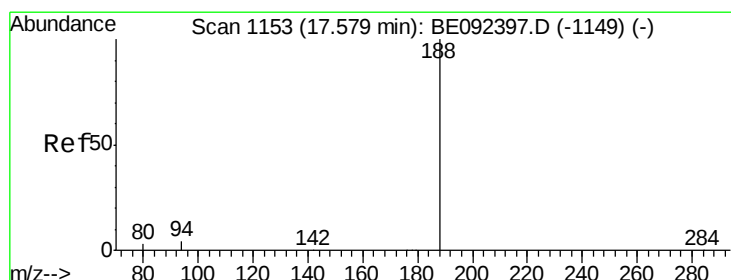
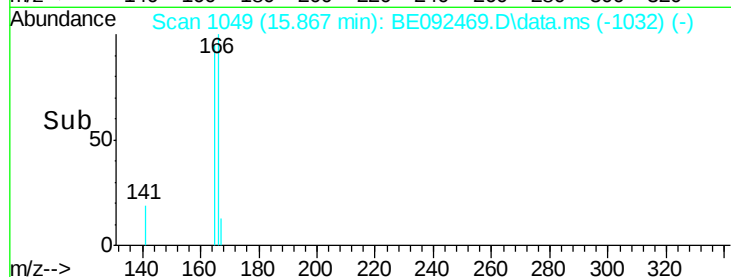
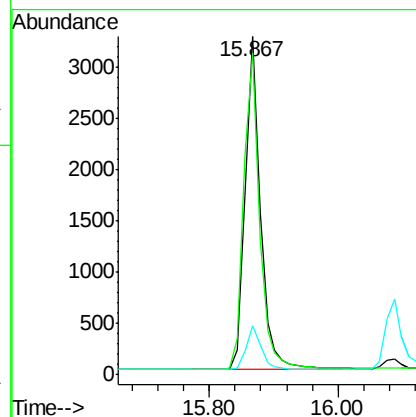
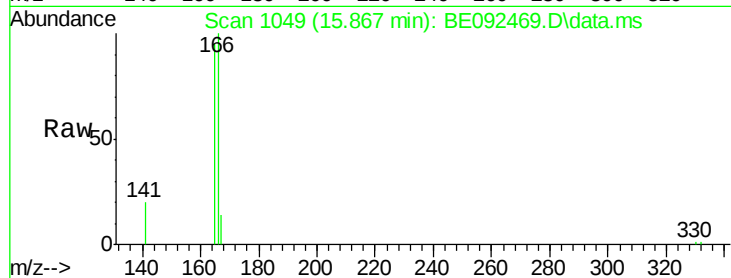




#17
Fluorene
 Concen: 0.39 ng
 RT: 15.867 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

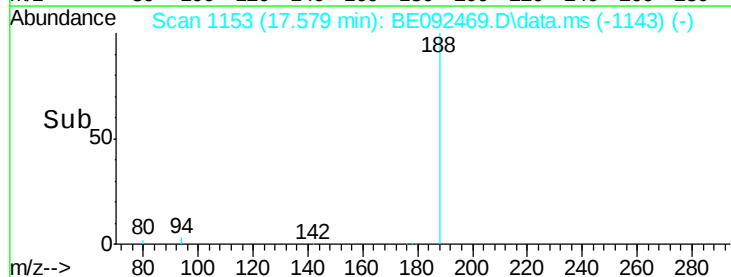
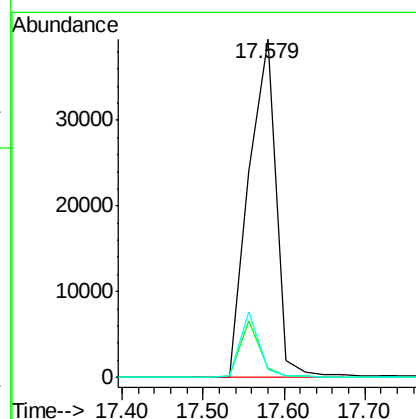
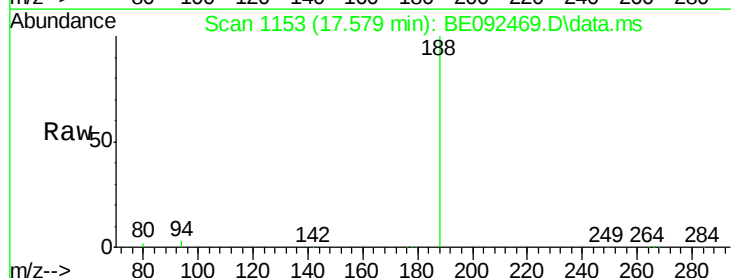
Instrument :
 BNA_E
 ClientSampleId :

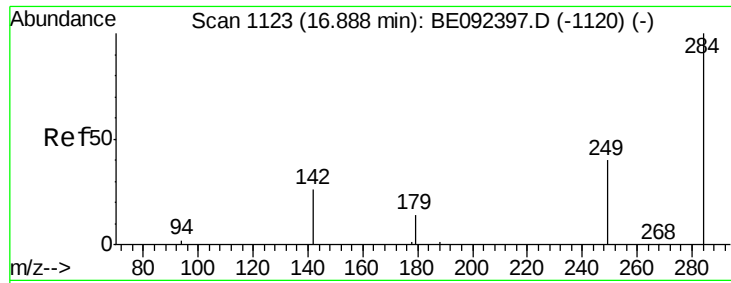
Tot Ion:166 Resp: 5301
 Ion Ratio Lower Upper
 166 100
 165 99.4 78.2 117.4
 167 13.4 11.0 16.4



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.579 min Scan# 1153
 Delta R.T. 0.023 min
 Lab File: BE092469.D
 Acq: 21 Oct 2016 16:23

Tgt Ion:188 Resp: 92091
 Ion Ratio Lower Upper
 188 100
 94 2.9 3.2 4.8#
 80 2.5 2.6 3.8#





#19

Hexachlorobenzene

Concen: 0.43 ng

RT: 16.888 min Scan# 1123

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

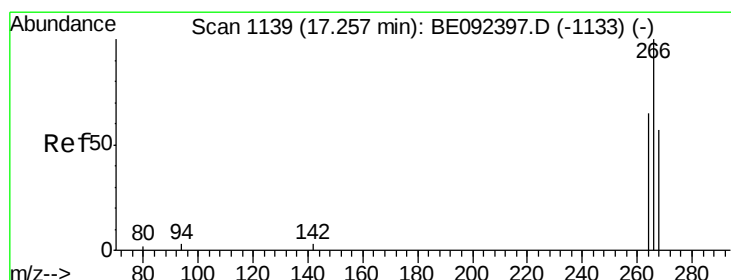
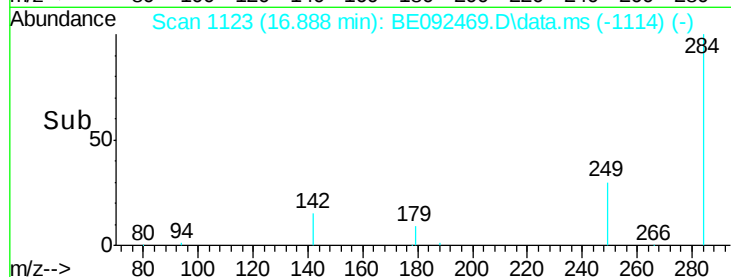
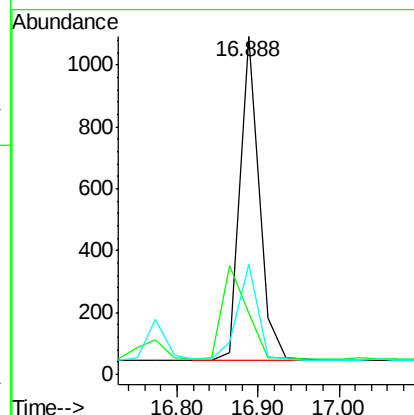
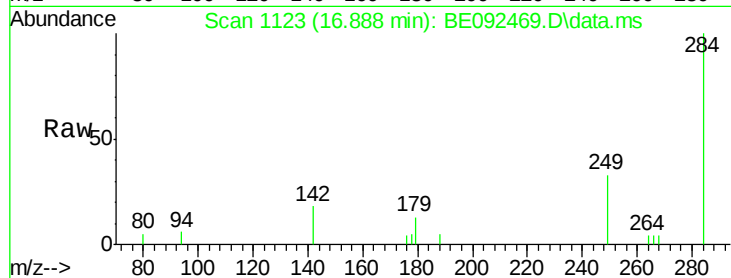
Tot Ion:284 Resp: 1704

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

249 30.6 27.9 41.9



#20

Pentachlorophenol

Concen: 0.39 ng

RT: 17.257 min Scan# 1139

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

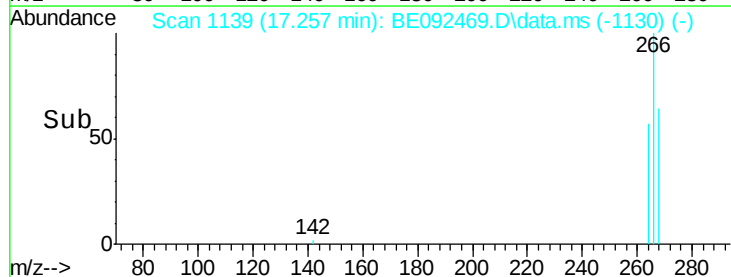
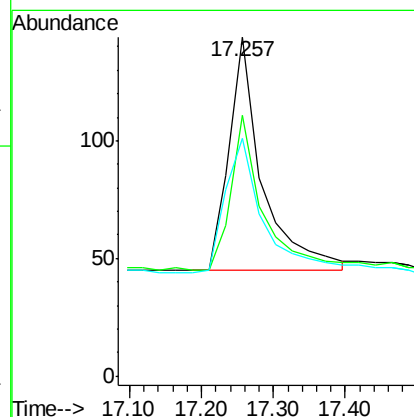
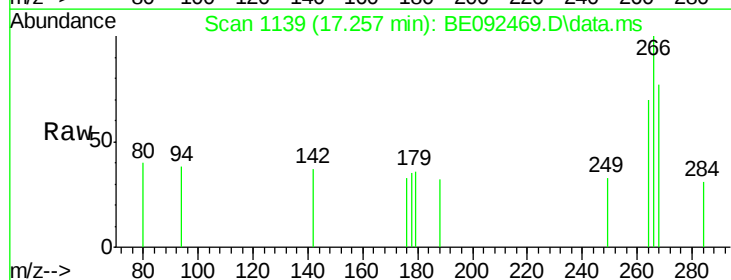
Tgt Ion:266 Resp: 315

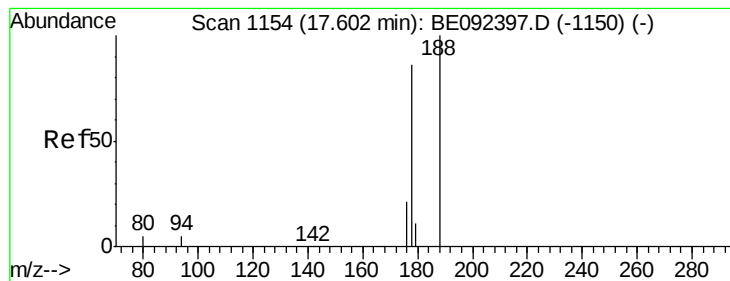
Ion Ratio Lower Upper

266 100

268 77.1 62.5 93.7

264 70.1 57.2 85.8





#21

Phenanthrene

Concen: 0.45 ng

RT: 17.603 min Scan# 1154

Delta R.T. 0.001 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

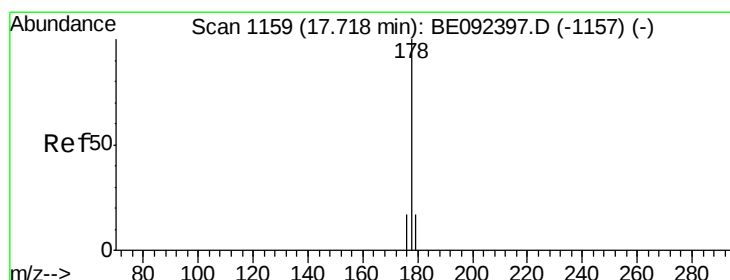
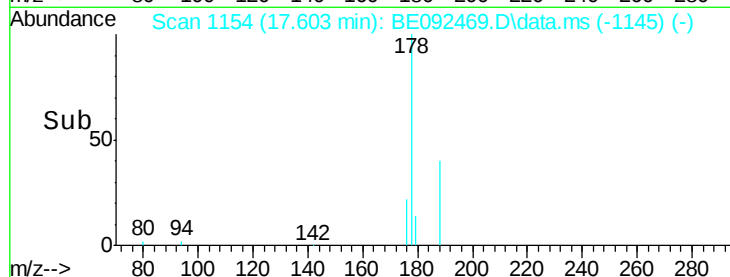
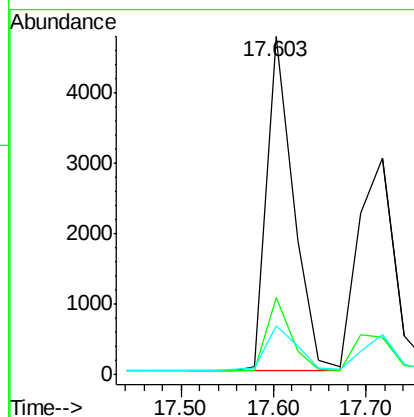
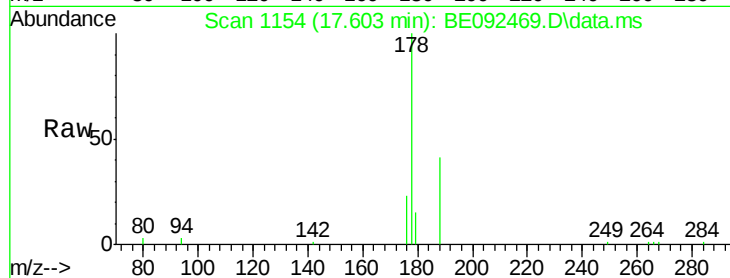
Tot Ion:178 Resp: 9527

Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

179 15.9 16.0 24.0#



#22

Anthracene

Concen: 0.46 ng

RT: 17.603 min Scan# 1154

Delta R.T. -0.092 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

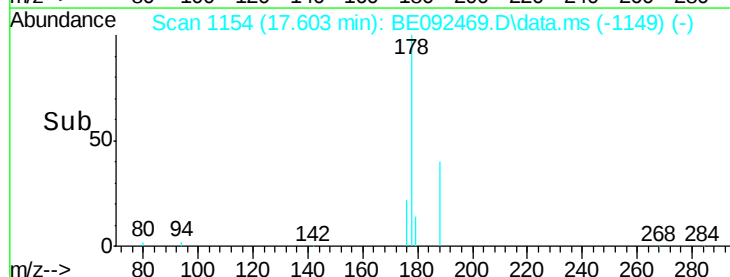
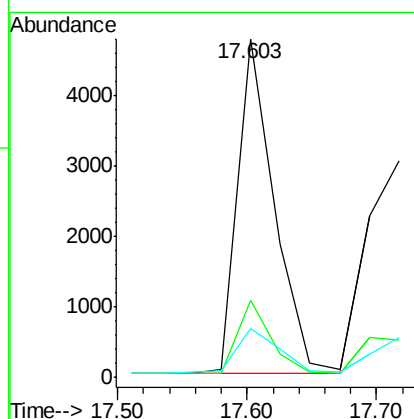
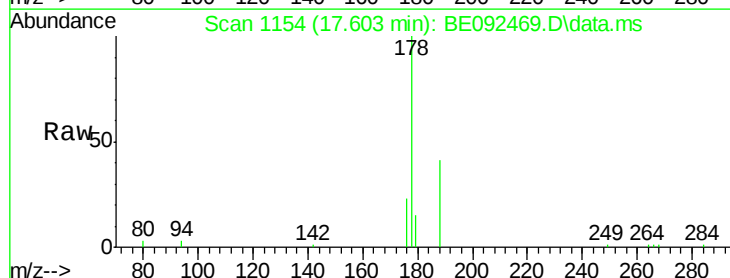
Tgt Ion:178 Resp: 9410

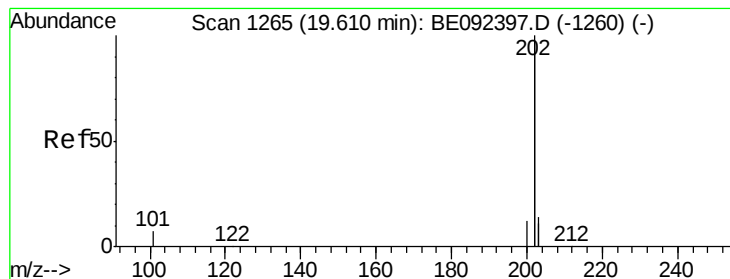
Ion Ratio Lower Upper

178 100

176 20.3 15.0 22.4

179 15.0 12.2 18.2





#23

Fluoranthene

Concen: 0.40 ng

RT: 19.611 min Scan# 1265

Delta R.T. 0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

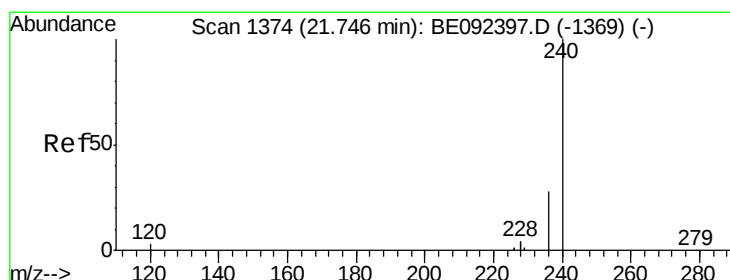
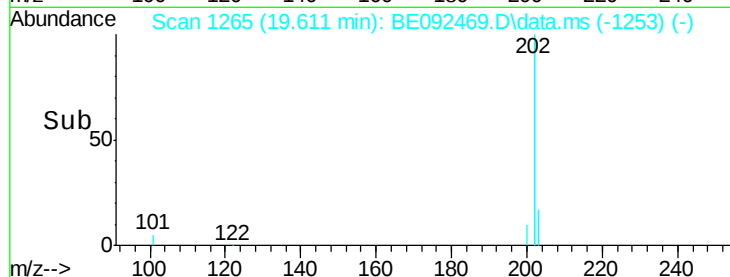
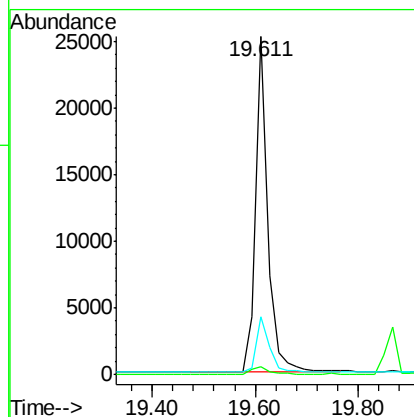
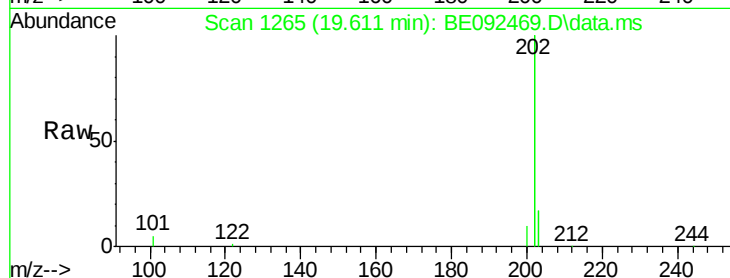
Tot Ion:202 Resp: 40708

Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

203 17.6 13.7 20.5



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.746 min Scan# 1374

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

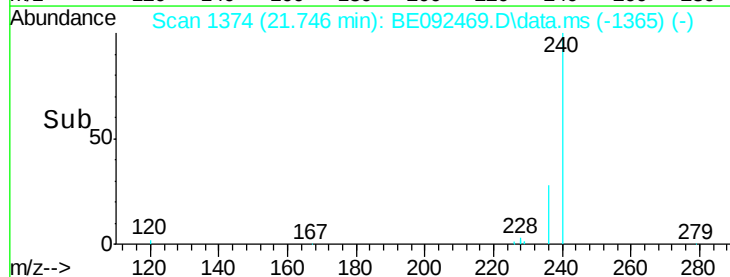
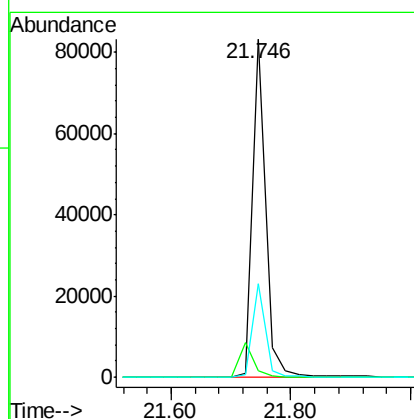
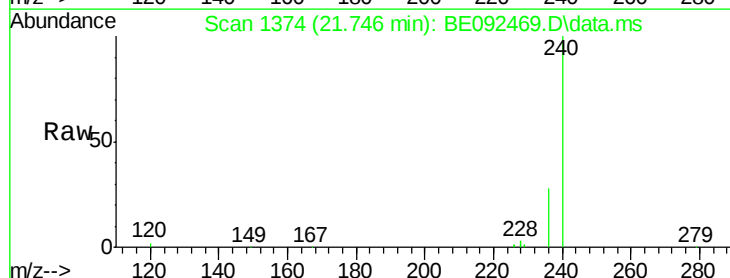
Tgt Ion:240 Resp: 128316

Ion Ratio Lower Upper

240 100

120 2.0 2.6 4.0#

236 27.6 24.6 37.0





#25

Pvrene

Concen: 0.43 ng

RT: 19.969 min Scan# 12

Delta R.T. 0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

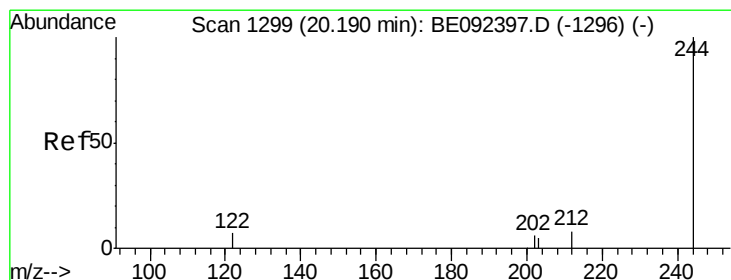
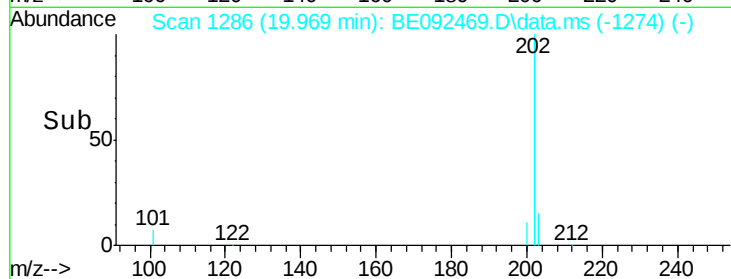
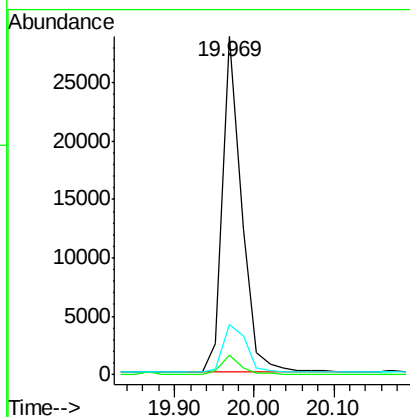
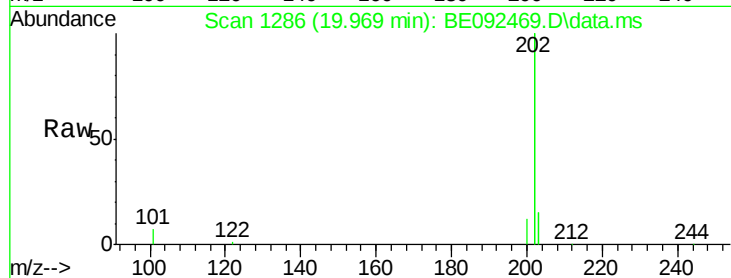
Tot Ion:202 Resp: 47550

Ion Ratio Lower Upper

202 100

200 5.3 4.2 6.4

203 17.7 13.9 20.9



#26

Terphenyl-d14

Concen: 0.41 ng

RT: 20.173 min Scan# 1298

Delta R.T. 0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

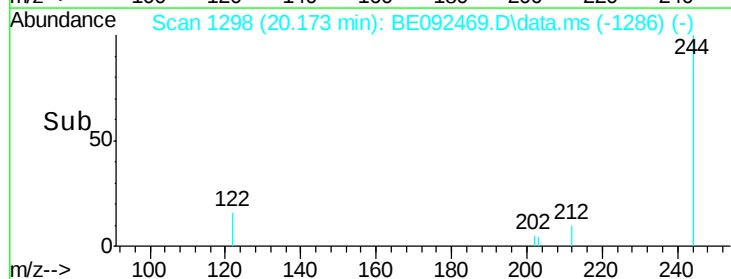
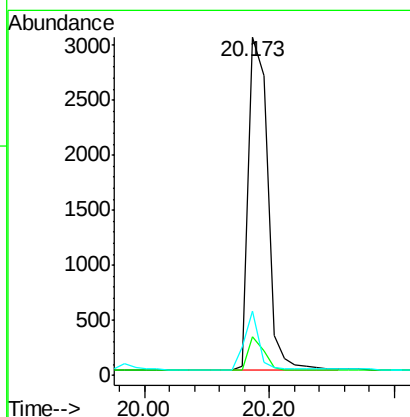
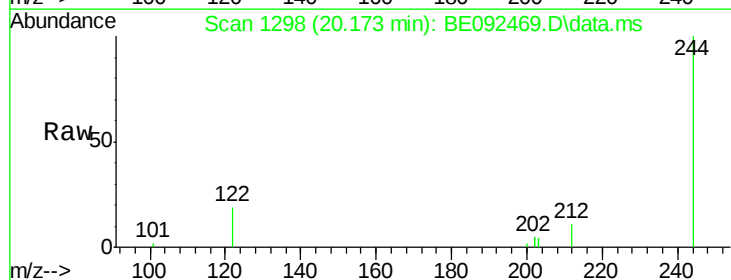
Tgt Ion:244 Resp: 6462

Ion Ratio Lower Upper

244 100

212 11.3 6.7 10.1#

122 19.1 3.6 5.4#

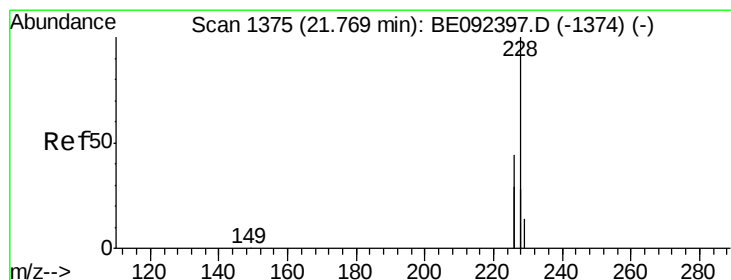
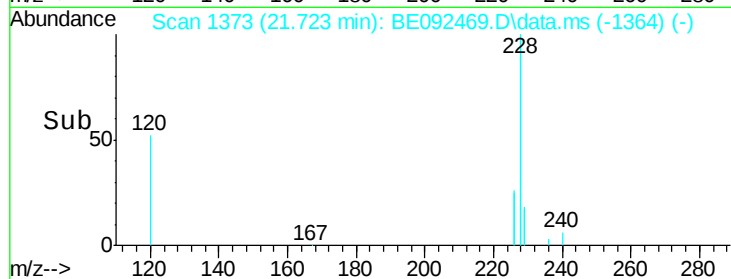
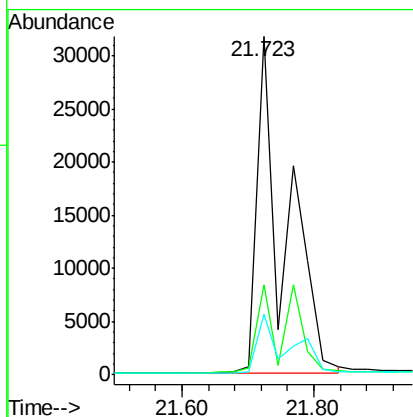
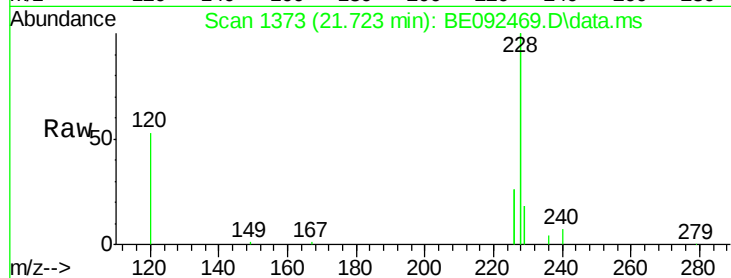




#27
Benzo(a)anthracene
Concen: 0.74 ng
RT: 21.723 min Scan# 1373
Delta R.T. -0.000 min
Lab File: BE092469.D
Acq: 21 Oct 2016 16:23

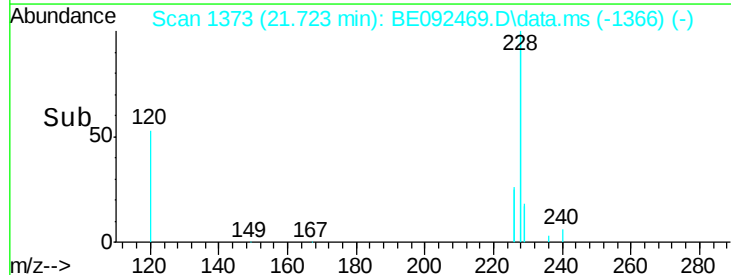
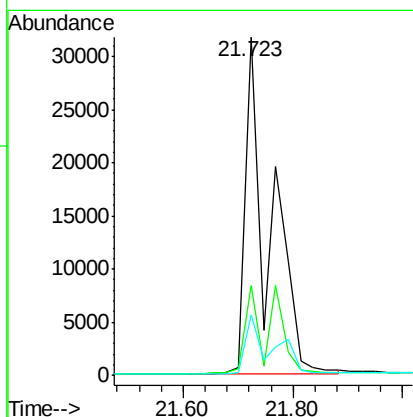
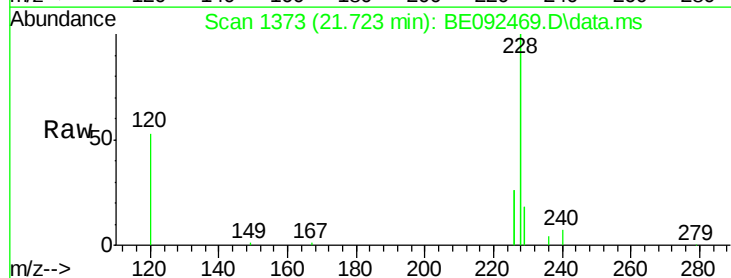
Instrument :
BNA_E
ClientSampleId :

Tot Ion:228 Resp: 92173
Ion Ratio Lower Upper
228 100
226 26.4 23.6 35.4
229 17.8 13.3 19.9



#28
Chrysene
Concen: 0.81 ng
RT: 21.723 min Scan# 1373
Delta R.T. -0.045 min
Lab File: BE092469.D
Acq: 21 Oct 2016 16:23

Tgt Ion:228 Resp: 92959
Ion Ratio Lower Upper
228 100
226 26.4 36.3 54.5#
229 17.8 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.34 ng

RT: 21.633 min Scan# 1369

Delta R.T. -0.000 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

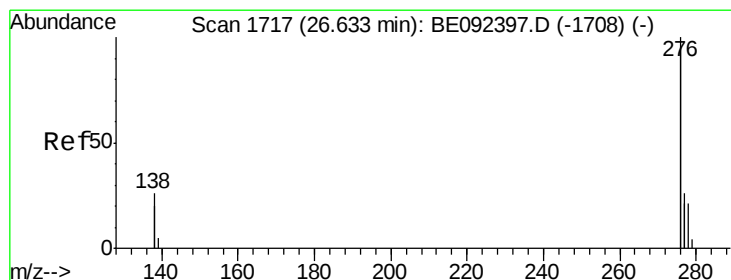
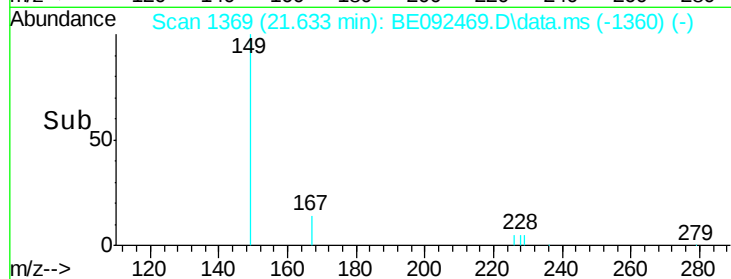
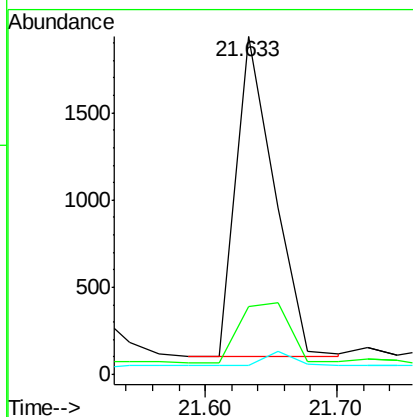
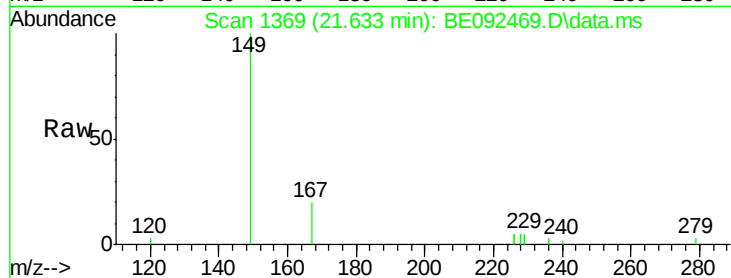
Tot Ion:149 Resp: 3709

Ion Ratio Lower Upper

149 100

167 0.0 16.0 24.0#

279 0.0 16.0 24.0#



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.36 ng

RT: 26.615 min Scan# 1716

Delta R.T. 0.034 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

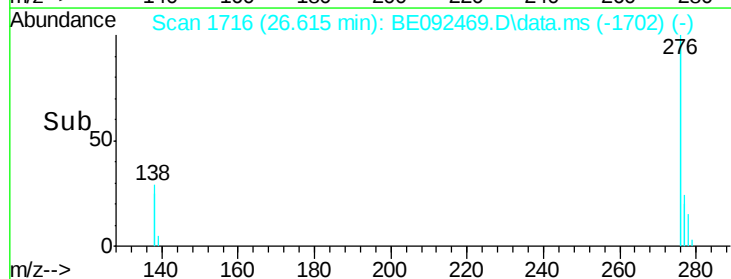
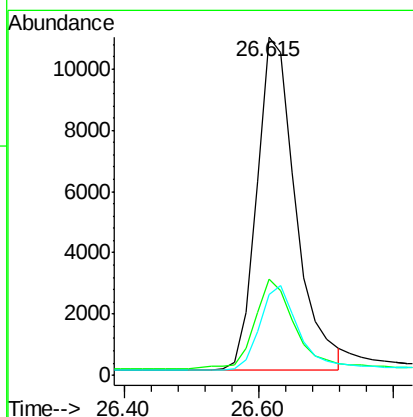
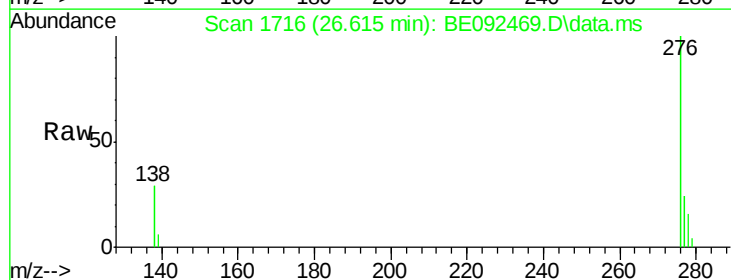
Tgt Ion:276 Resp: 43171

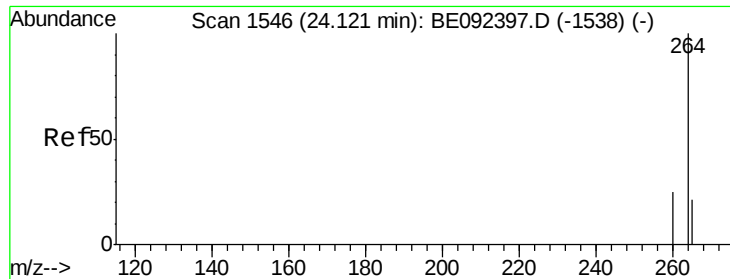
Ion Ratio Lower Upper

276 100

138 27.8 20.3 30.5

277 24.7 19.7 29.5





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.121 min Scan# 15

Delta R.T. 0.035 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

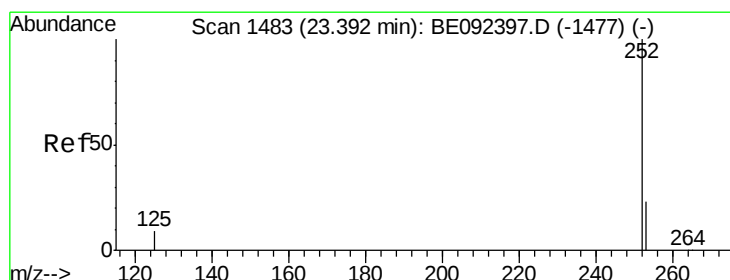
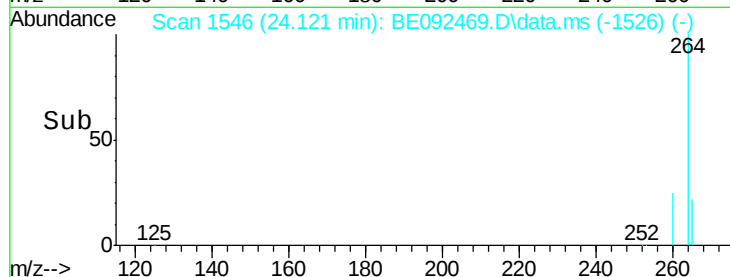
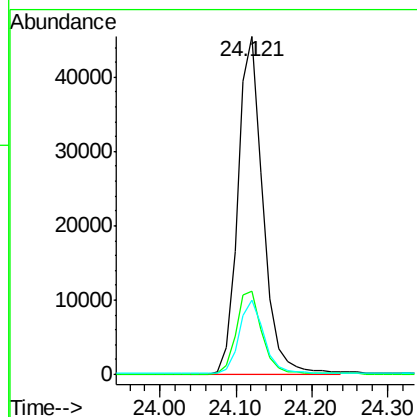
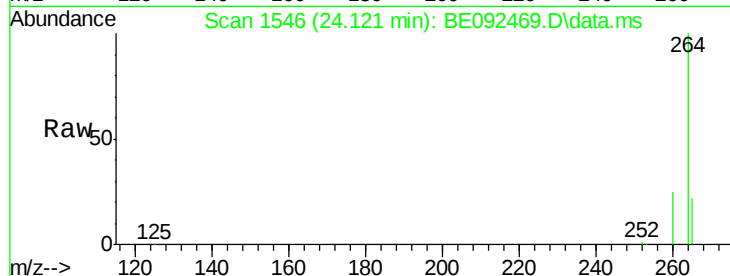
Tot Ion:264 Resp: 105043

Ion Ratio Lower Upper

264 100

260 24.7 20.1 30.1

265 22.0 17.9 26.9



#32

Benzo(b)fluoranthene

Concen: 0.40 ng

RT: 23.381 min Scan# 1482

Delta R.T. 0.023 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

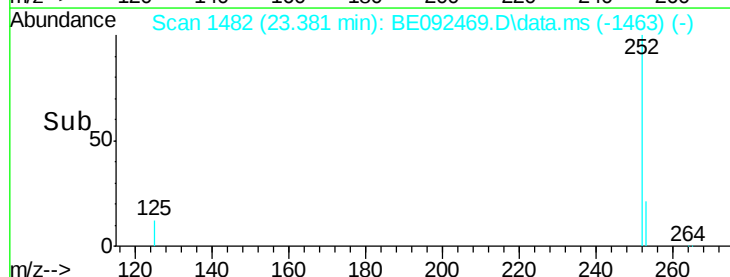
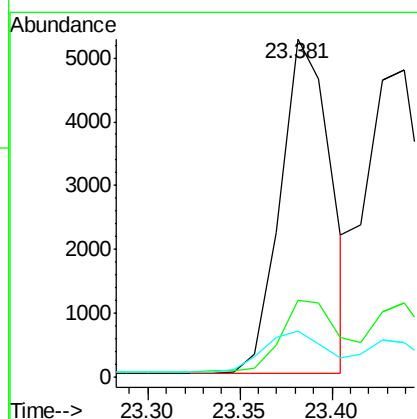
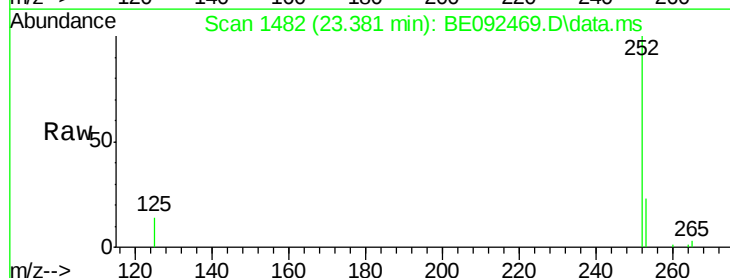
Tgt Ion:252 Resp: 10068

Ion Ratio Lower Upper

252 100

253 22.6 18.7 28.1

125 13.7 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.42 ng

RT: 23.439 min Scan# 14

Delta R.T. 0.035 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

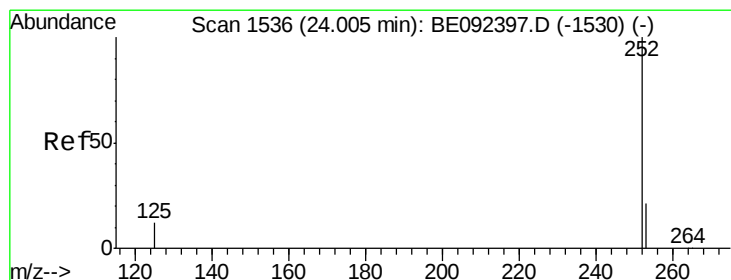
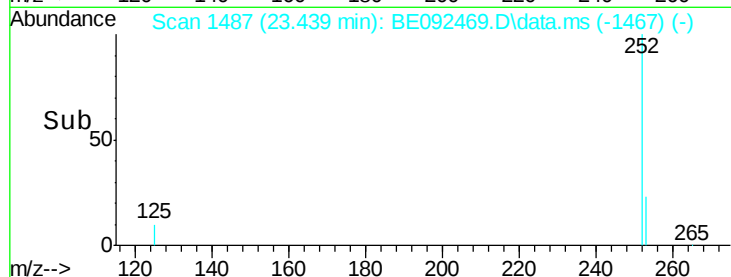
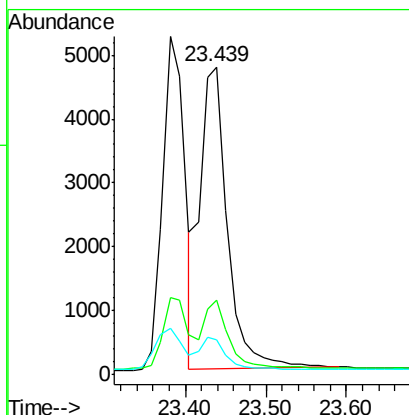
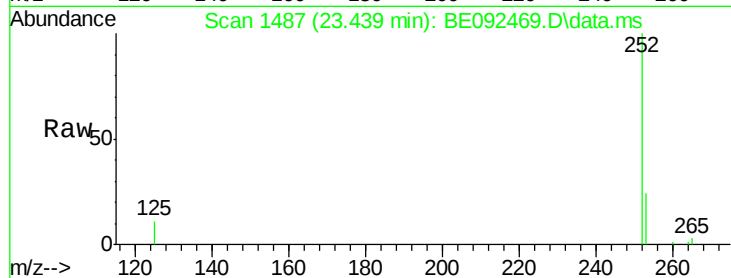
Tot Ion:252 Resp: 11212

Ion Ratio Lower Upper

252 100

253 24.2 20.3 30.5

125 11.1 9.6 14.4



#34

Benzo(a)pyrene

Concen: 0.40 ng

RT: 24.006 min Scan# 1536

Delta R.T. 0.023 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

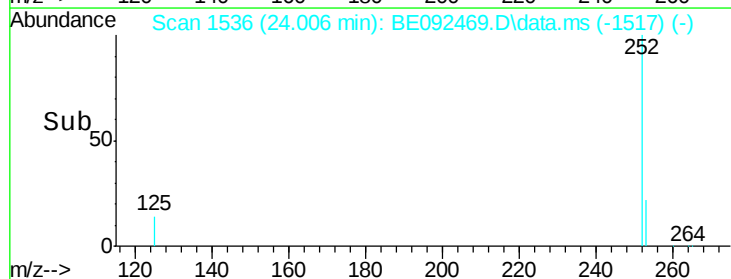
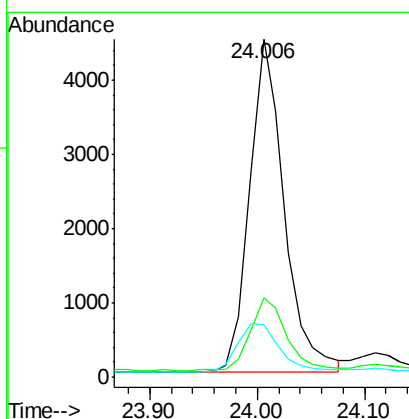
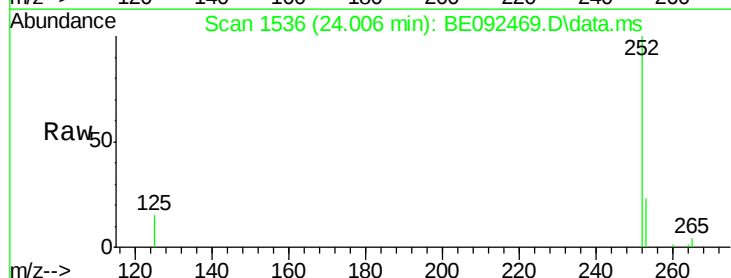
Tgt Ion:252 Resp: 10023

Ion Ratio Lower Upper

252 100

253 23.5 19.0 28.6

125 15.4 11.8 17.8





#35

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 26.650 min Scan# 1718

Delta R.T. 0.052 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Instrument :

BNA_E

ClientSampleId :

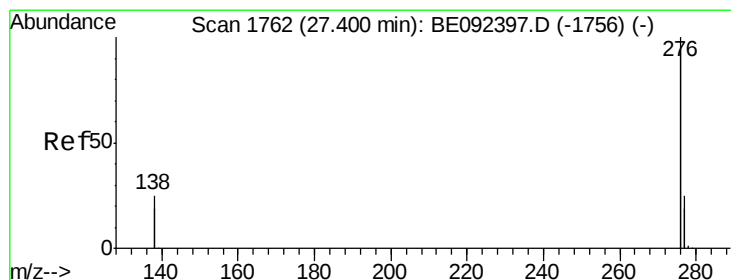
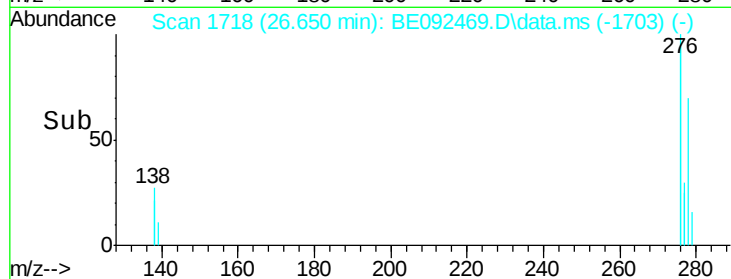
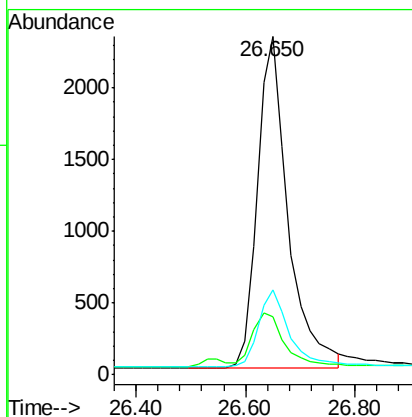
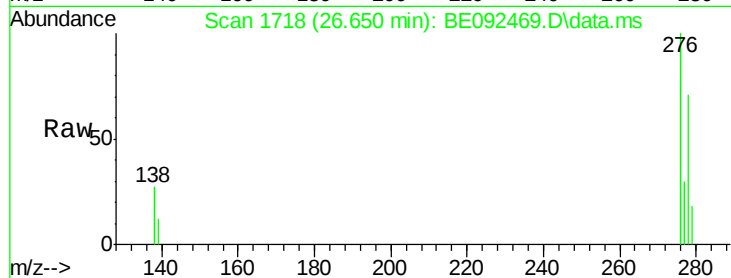
Tot Ion:278 Resp: 8973

Ion Ratio Lower Upper

278 100

139 17.1 13.8 20.8

279 25.2 21.4 32.2



#36

Benzo(g,h,i)perylene

Concen: 0.38 ng

RT: 27.399 min Scan# 1762

Delta R.T. 0.051 min

Lab File: BE092469.D

Acq: 21 Oct 2016 16:23

Tgt Ion:276 Resp: 37325

Ion Ratio Lower Upper

276 100

277 25.8 19.8 29.8

138 23.5 19.8 29.6

