

Data Path : Z:\HPCHEM1\BNA E\Data\BE093016\
 Data File : BE092436.D
 Acq On : 30 Sep 2016 15:11
 Operator : UM/SJ
 Sample : PB93716BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 30 19:06:21 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	10488	5.00	ng	-0.02
7) Naphthalene-d8	10.952	136	45308	5.00	ng	0.00
12) Acenaphthene-d10	14.814	164	29602	5.00	ng	0.00
18) Phenanthrene-d10	17.580	188	55260	5.00	ng	0.02
24) Chrysene-d12	21.746	240	90438	5.00	ng	0.00
31) Perylene-d12	24.112	264	77171	5.00	ng	0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.669	112	15866	6.43	ng	-0.02
5) Phenol-d6	7.335	99	20959	5.96	ng	-0.02
8) Nitrobenzene-d5	9.339	82	9859	3.08	ng	-0.02
13) 2,4,6-Tribromophenol	16.307	330	5847	5.62	ng	-0.01
14) 2-Fluorobiphenyl	13.434	172	24040	3.43	ng	-0.01
26) Terphenyl-d14	20.174	244	33617	3.00	ng	0.00

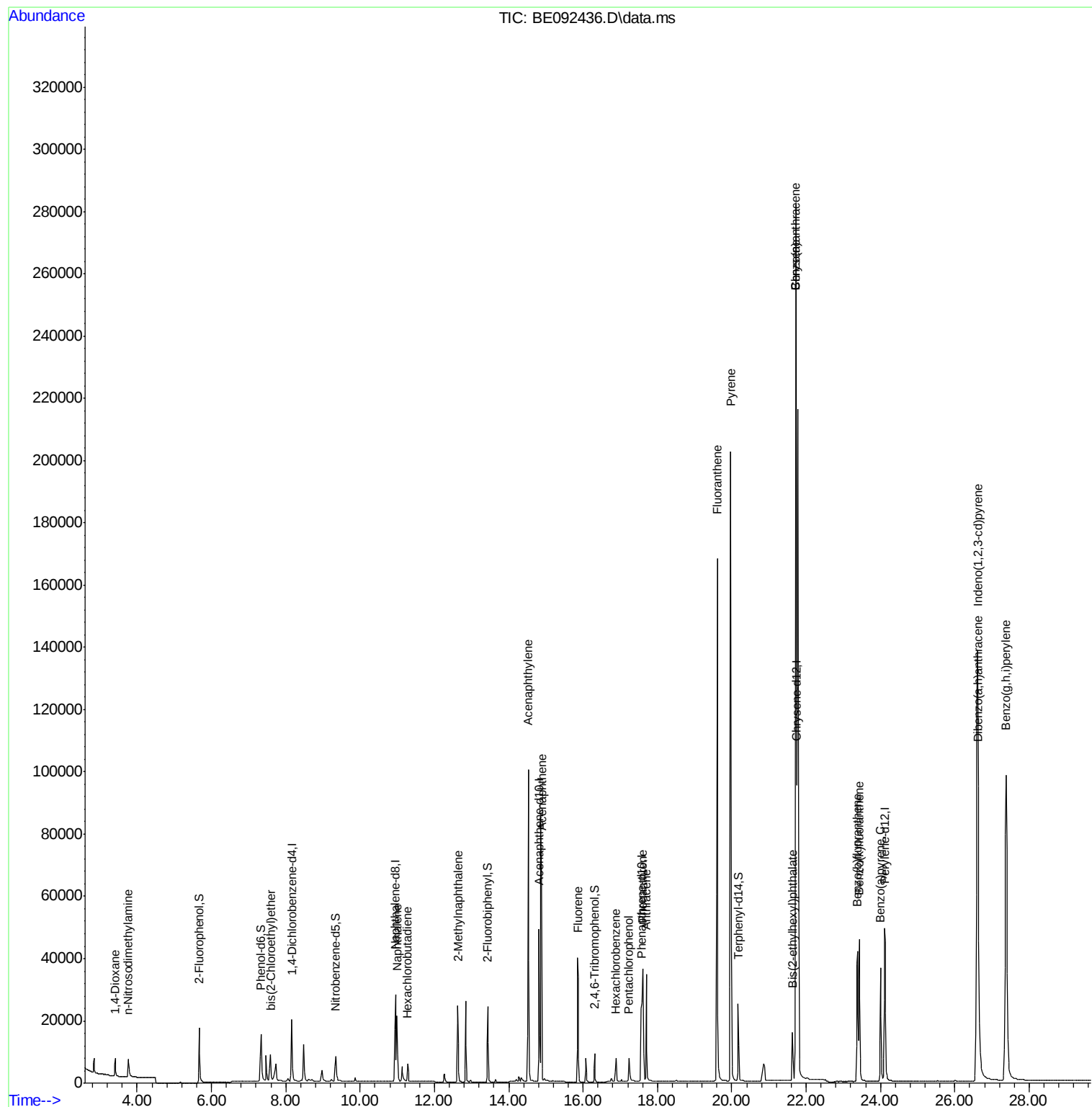
Target Compounds						Qvalue
2) 1,4-Dioxane	3.410	88	3470	3.05	ng	# 82
3) n-Nitrosodimethylamine	3.757	42	5311	3.26	ng	# 99
6) bis(2-Chloroethyl)ether	7.588	93	8668	3.16	ng	95
9) Naphthalene	10.991	128	30971	3.16	ng	# 95
10) Hexachlorobutadiene	11.279	225	4703	3.05	ng	99
11) 2-Methylnaphthalene	12.625	142	20613	3.18	ng	# 91
15) Acenaphthylene	14.525	152	137417	3.21	ng	100
16) Acenaphthene	14.883	154	20710	3.08	ng	94
17) Fluorene	15.867	166	27308	3.21	ng	100
19) Hexachlorobenzene	16.889	284	8171	3.45	ng	# 64
20) Pentachlorophenol	17.234	266	6849	7.92	ng	# 86
21) Phenanthrene	17.603	178	45940	3.62	ng	# 94
22) Anthracene	17.695	178	47303	3.87	ng	99
23) Fluoranthene	19.611	202	211108	3.50	ng	98
25) Pyrene	19.969	202	231008	2.95	ng	99
27) Benzo(a)anthracene	21.724	228	536804	6.09	ng	# 90
28) Chrysene	21.724	228	539757	6.69	ng	# 70
29) Bis(2-ethylhexyl)phtha...	21.633	149	22755	3.00	ng	# 74
30) Indeno(1,2,3-cd)pyrene	26.615	276	288115	3.36	ng	98
32) Benzo(b)fluoranthene	23.383	252	66938	3.58	ng	# 96
33) Benzo(k)fluoranthene	23.429	252	62638	3.20	ng	95
34) Benzo(a)pyrene	24.008	252	63548	3.47	ng	# 95
35) Dibenzo(a,h)anthracene	26.632	278	60231	3.59	ng	95
36) Benzo(g,h,i)perylene	27.382	276	247873	3.44	ng	97

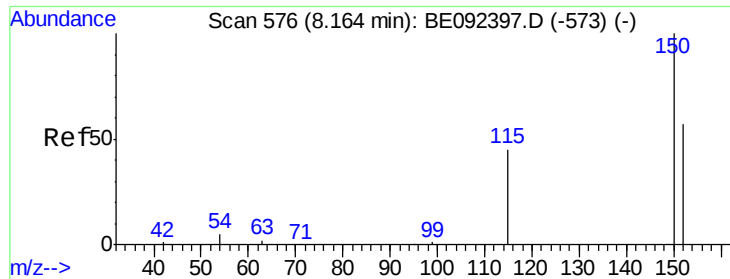
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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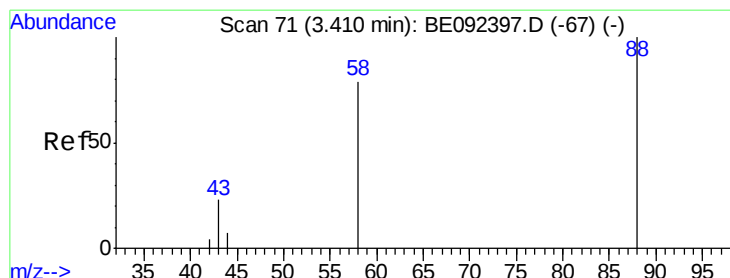
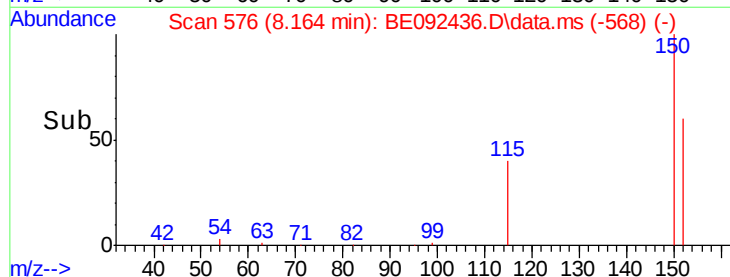
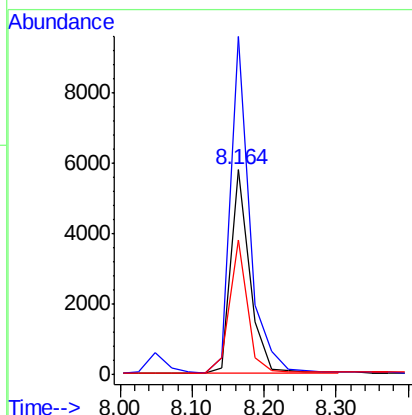
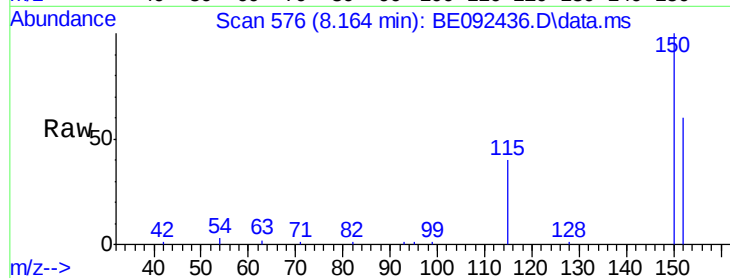




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.164 min Scan# 57
 Delta R.T. -0.023 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

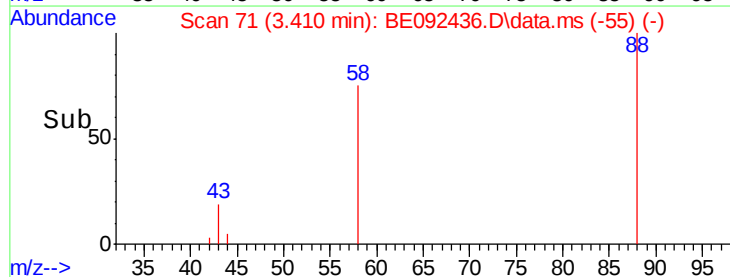
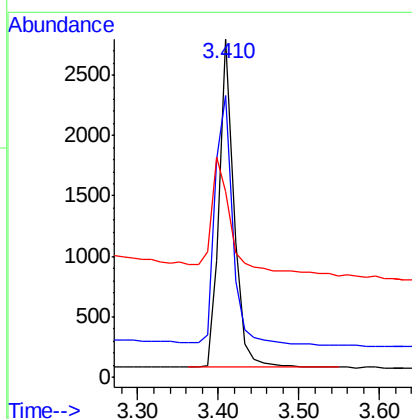
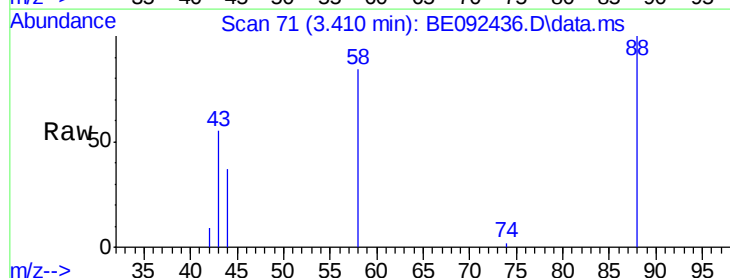
Instrument :
 BNA_E
 ClientSampleId :

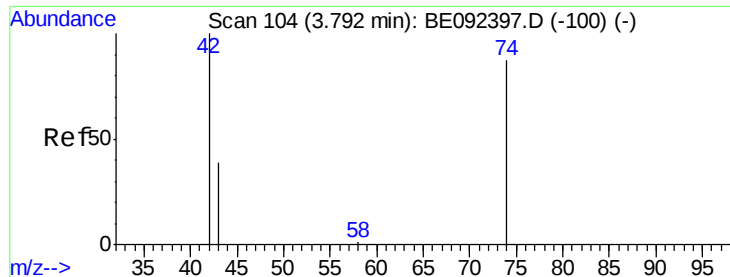
Tot Ion:152 Resp: 10488
 Ion Ratio Lower Upper
 152 100
 150 165.3 106.0 159.0#
 115 66.0 31.2 46.8#



#2
 1,4-Dioxane
 Concen: 3.05 ng
 RT: 3.410 min Scan# 71
 Delta R.T. -0.011 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

Tgt Ion: 88 Resp: 3470
 Ion Ratio Lower Upper
 88 100
 58 91.6 63.6 95.4
 43 50.3 28.0 42.0#

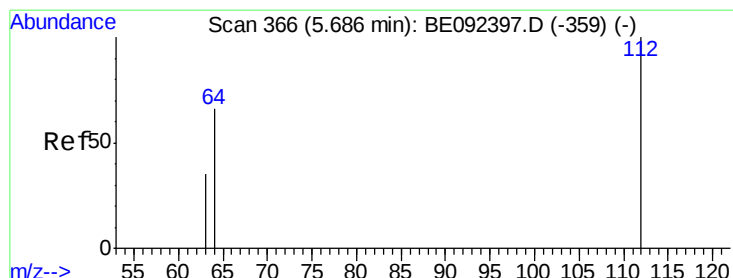
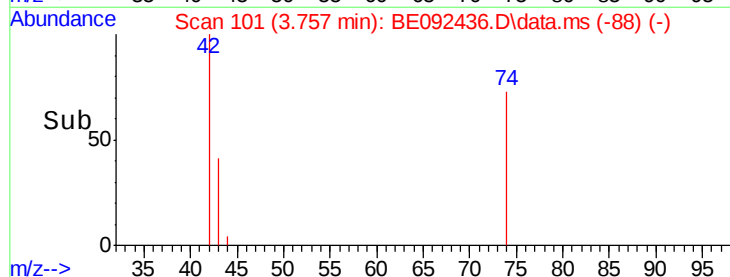
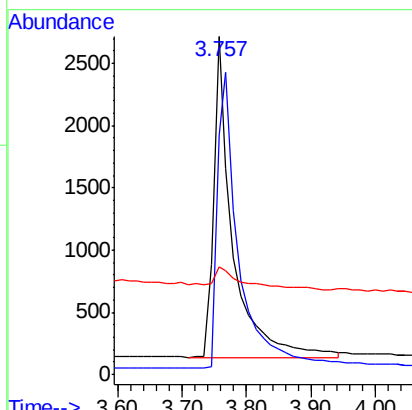
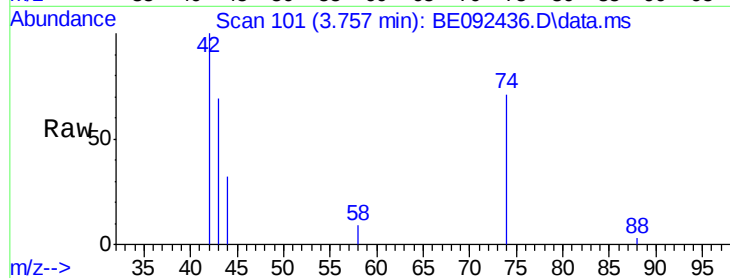




#3
n-Nitrosodimethylamine
Concen: 3.26 ng
RT: 3.757 min Scan# 101
Delta R.T. -0.045 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

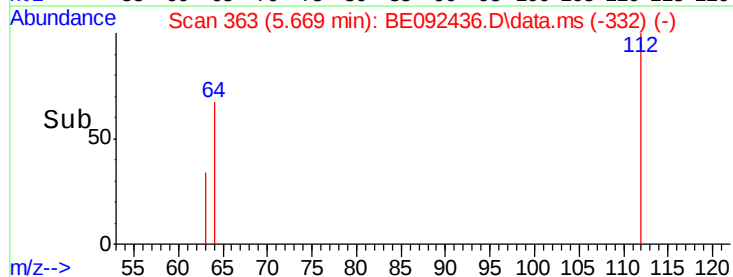
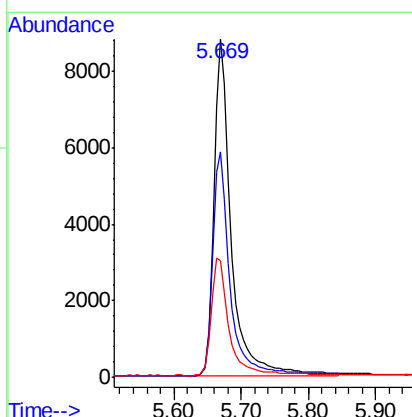
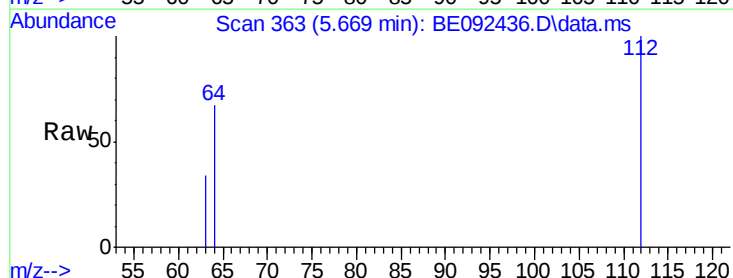
Instrument :
BNA_E
ClientSampleId :

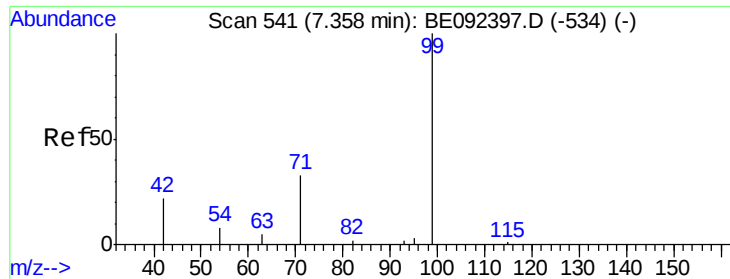
Tot Ion: 42 Resp: 5311
Ion Ratio Lower Upper
42 100
74 106.9 86.0 129.0
44 10.4 5.1 7.7#



#4
2-Fluorophenol
Concen: 6.43 ng
RT: 5.669 min Scan# 363
Delta R.T. -0.017 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion: 112 Resp: 15866
Ion Ratio Lower Upper
112 100
64 67.4 53.5 80.3
63 36.0 27.9 41.9





#5

Phenol-d6

Concen: 5.96 ng

RT: 7.335 min Scan# 541

Delta R.T. -0.023 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

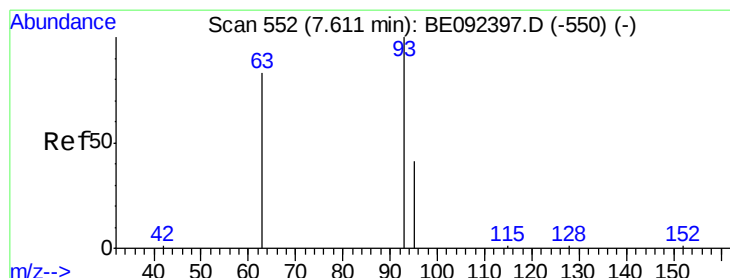
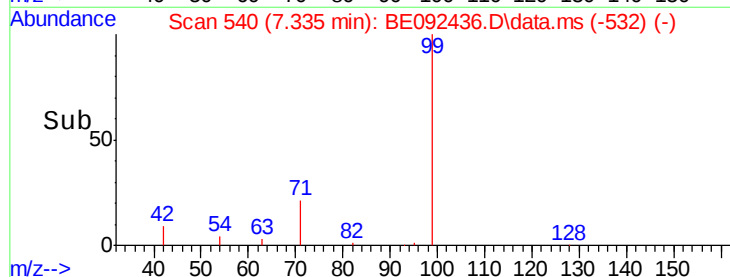
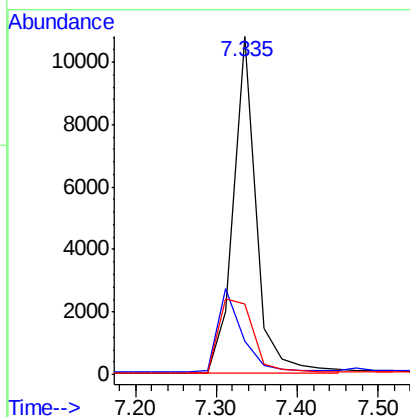
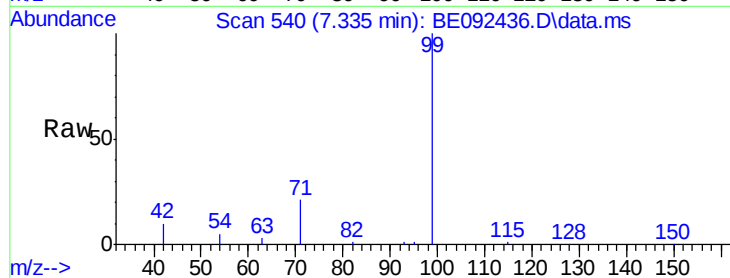
Tot Ion: 99 Resp: 20959

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: 3.16 ng

RT: 7.588 min Scan# 551

Delta R.T. -0.022 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

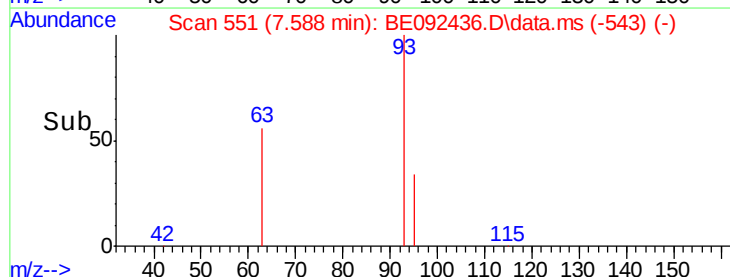
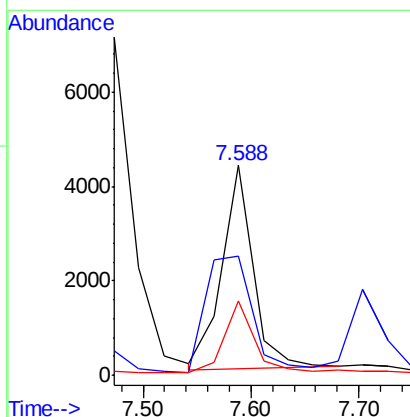
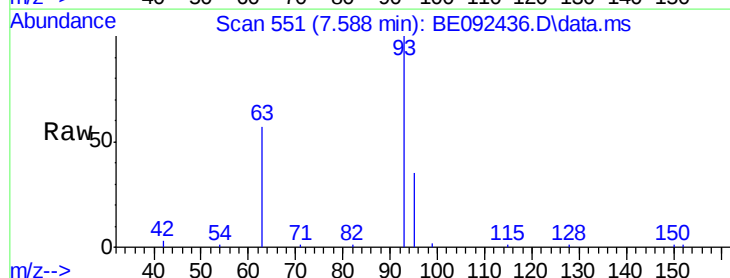
Tgt Ion: 93 Resp: 8668

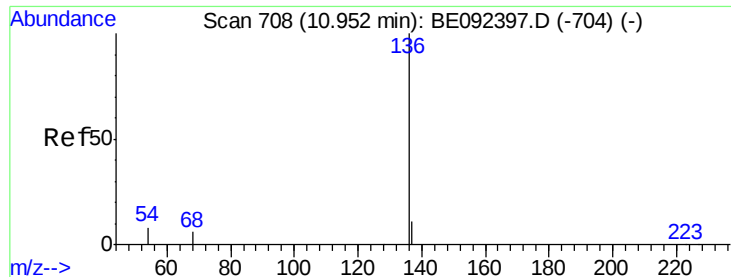
Ion Ratio Lower Upper

93 100

63 86.5 71.6 107.4

95 34.7 24.0 36.0

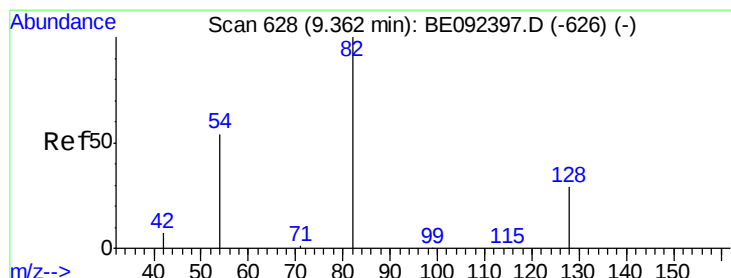
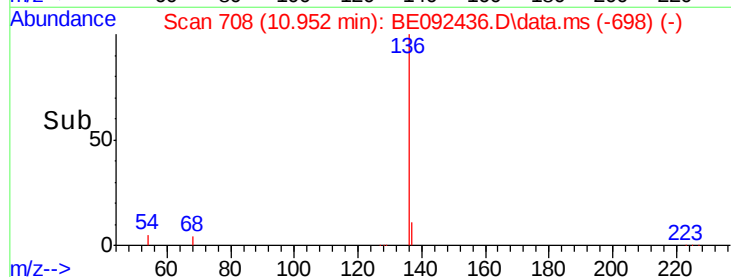
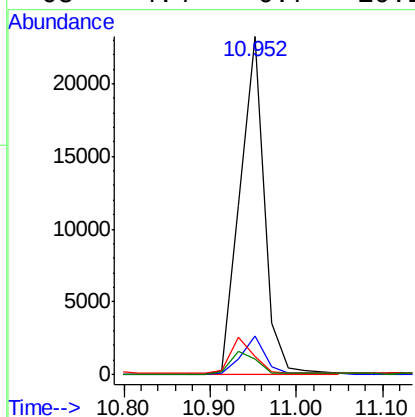
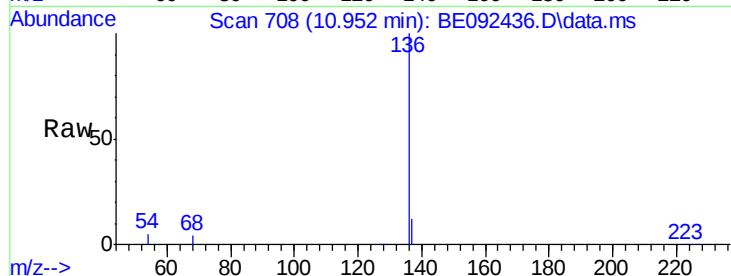




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.952 min Scan# 70
Delta R.T. 0.000 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

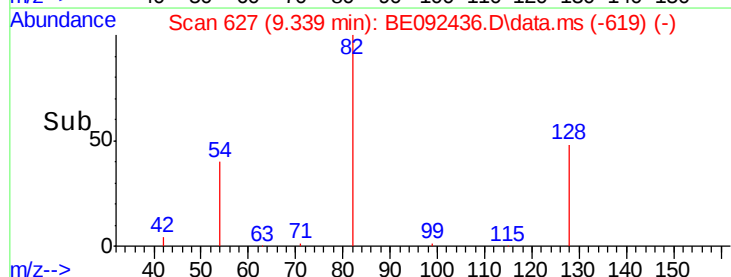
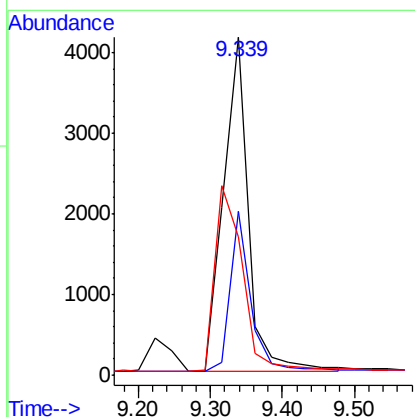
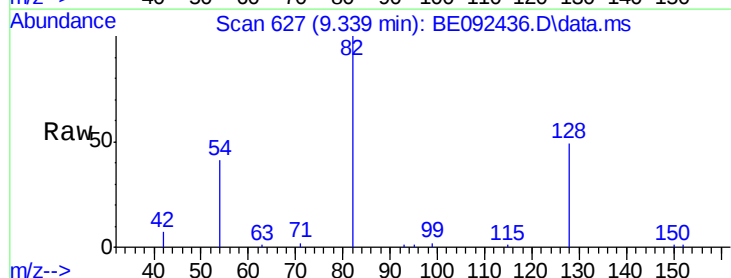
Instrument :
BNA_E
ClientSampleId :

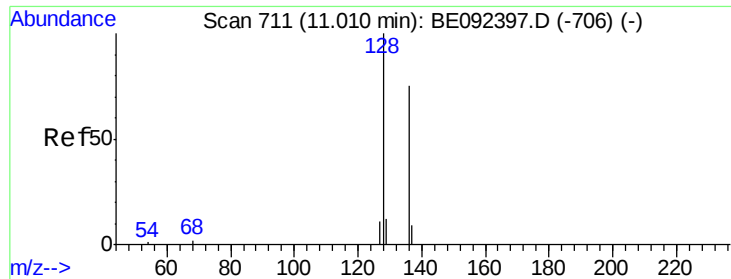
Tot Ion:	136	Resp:	45308
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.2	12.4
54	5.5	9.6	14.4#
68	4.4	6.7	10.1#



#8
Nitrobenzene-d5
Concen: 3.08 ng
RT: 9.339 min Scan# 627
Delta R.T. -0.023 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion:	82	Resp:	9859
Ion Ratio	Lower	Upper	
82	100		
128	48.6	39.0	58.4
54	40.8	44.8	67.2#





#9

Naphthalene

Concen: 3.16 ng

RT: 10.991 min Scan# 711

Delta R.T. -0.019 min

Lab File: BE092436.D

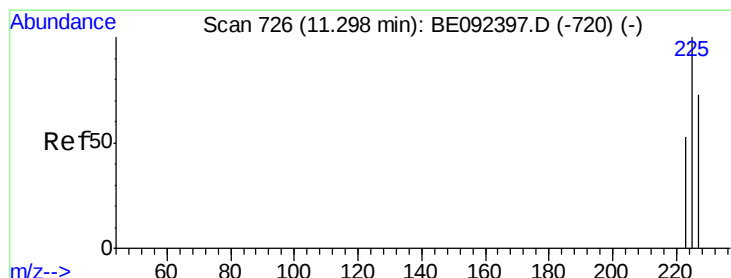
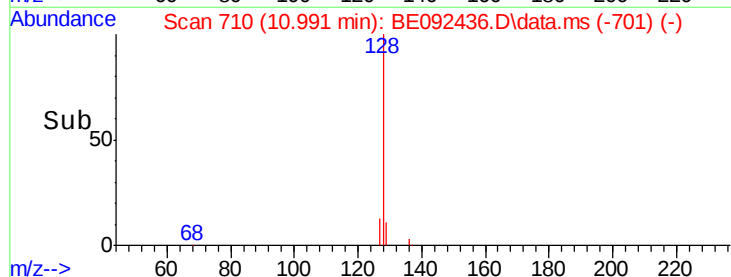
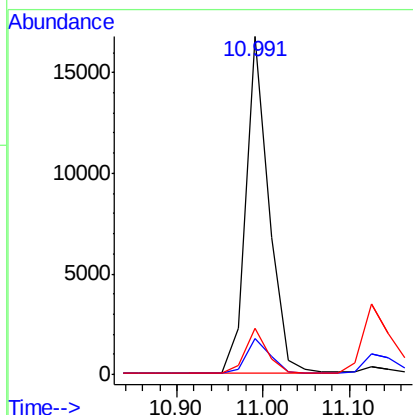
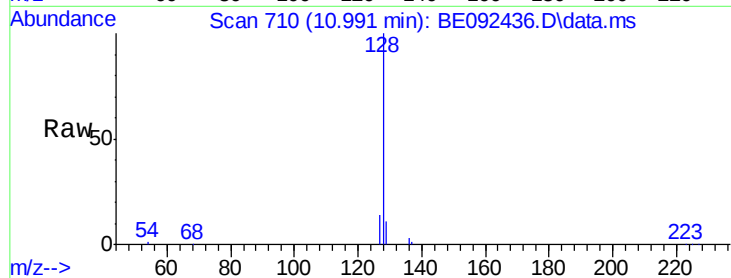
Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

Tot Ion:128	Resp:	30971
Ion Ratio	Lower	Upper
128	100	
129	10.8	11.2 16.8#
127	13.6	11.6 17.4



#10

Hexachlorobutadiene

Concen: 3.05 ng

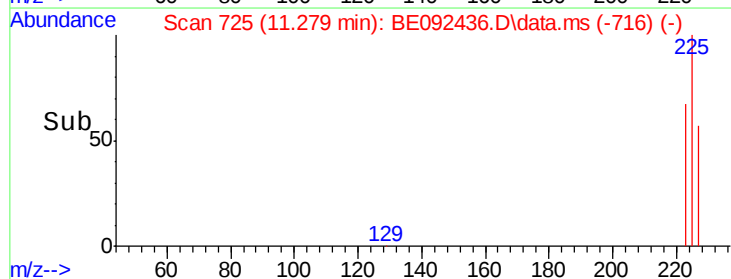
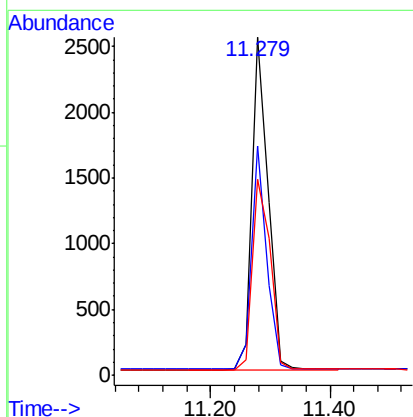
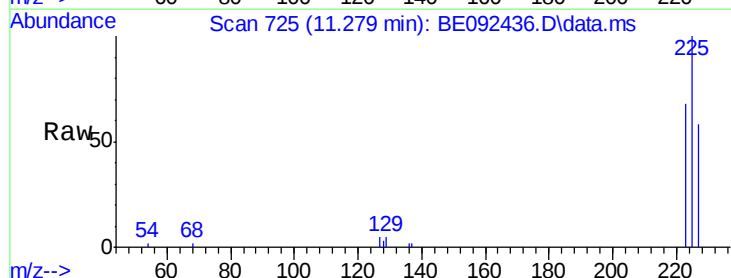
RT: 11.279 min Scan# 725

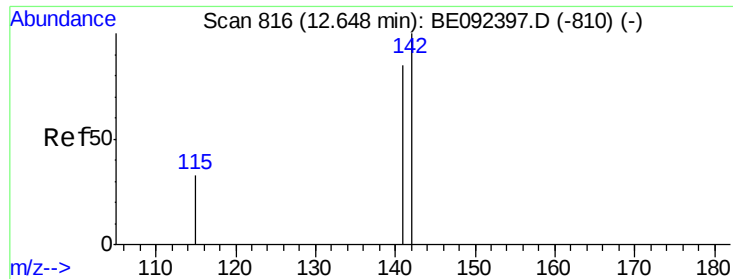
Delta R.T. -0.019 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Tgt Ion:225	Resp:	4703
Ion Ratio	Lower	Upper
225	100	
223	63.0	50.6 76.0
227	63.7	51.4 77.0

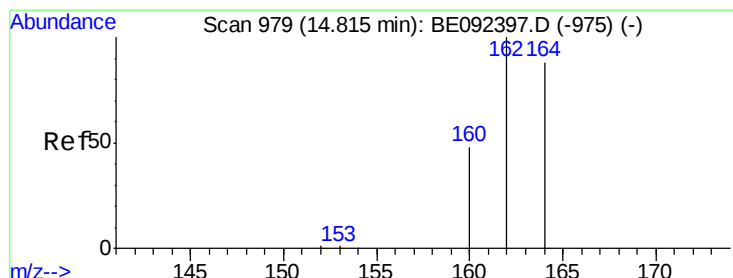
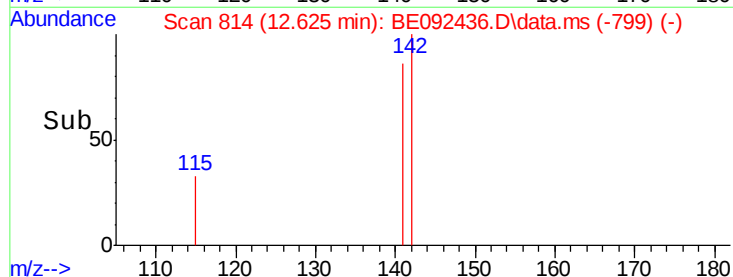
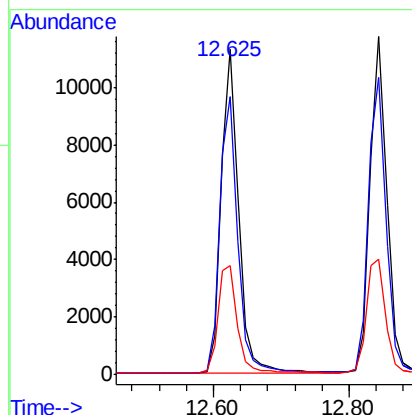
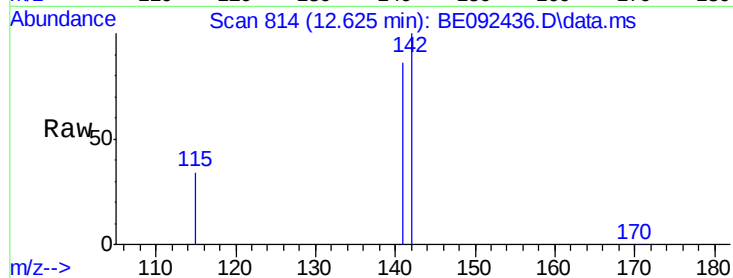




#11
2-Methylnaphthalene
Concen: 3.18 ng
RT: 12.625 min Scan# 81
Delta R.T. -0.023 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

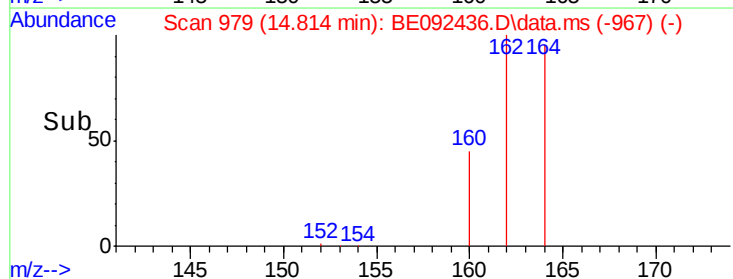
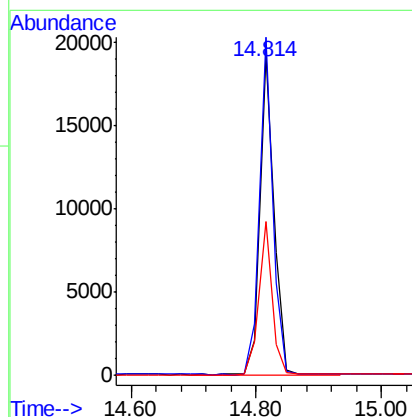
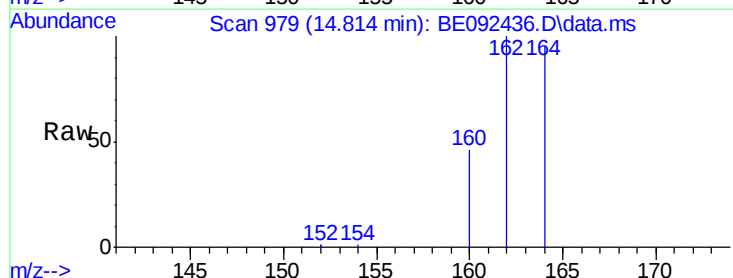
Instrument :
BNA_E
ClientSampleId :

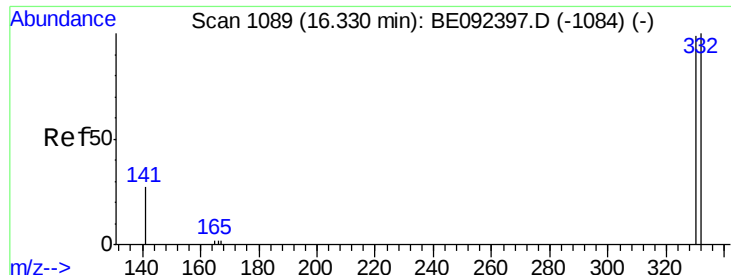
Tot Ion:142 Resp: 20613
Ion Ratio Lower Upper
142 100
141 85.6 73.7 110.5
115 33.6 34.0 51.0#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.814 min Scan# 979
Delta R.T. -0.001 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion:164 Resp: 29602
Ion Ratio Lower Upper
164 100
162 105.7 71.4 107.0
160 48.2 27.4 41.2#

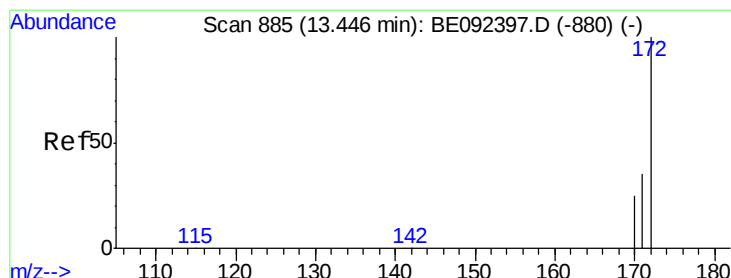
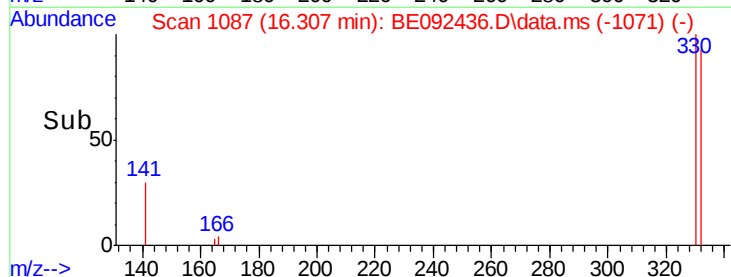
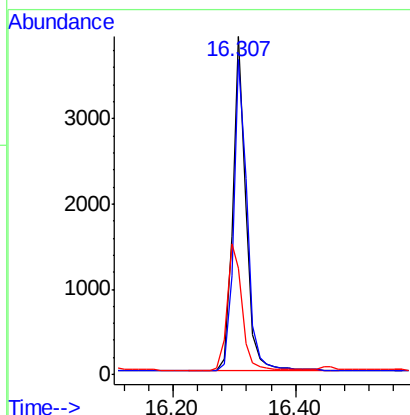
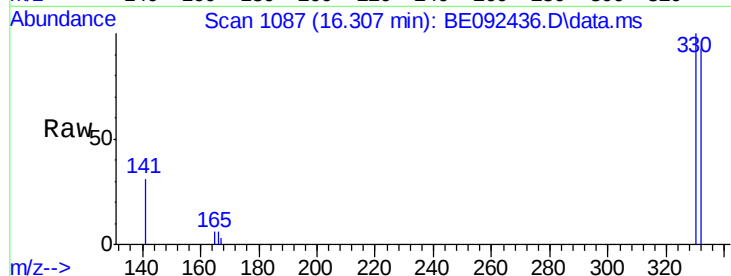




#13
 2,4,6-Tribromophenol
 Concen: 5.62 ng
 RT: 16.307 min Scan# 1089
 Delta R.T. -0.011 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

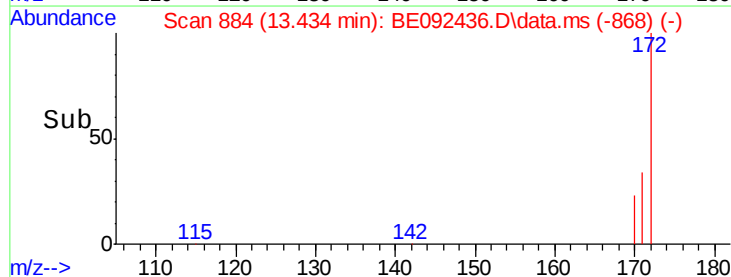
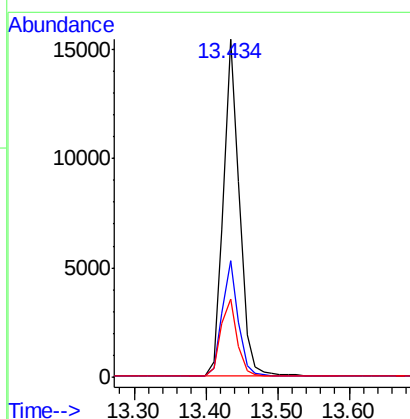
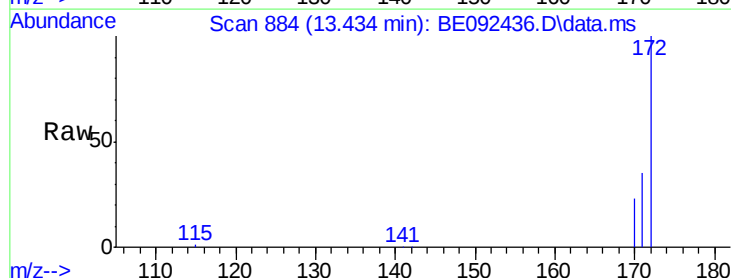
Instrument :
 BNA_E
 ClientSampleId :

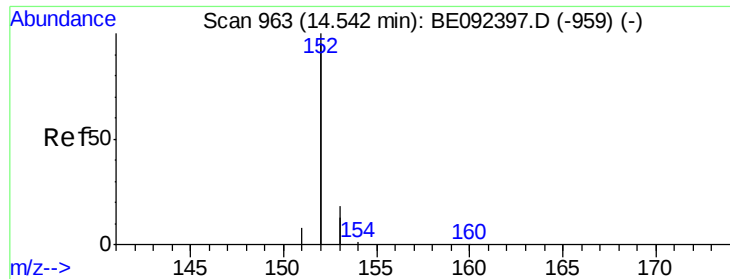
Tot Ion:330 Resp: 5847
 Ion Ratio Lower Upper
 330 100
 332 96.2 75.4 113.0
 141 42.4 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 3.43 ng
 RT: 13.434 min Scan# 884
 Delta R.T. -0.011 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

Tgt Ion:172 Resp: 24040
 Ion Ratio Lower Upper
 172 100
 171 34.6 30.1 45.1
 170 23.0 21.8 32.6





#15

Acenaphthylene

Concen: 3.21 ng

RT: 14.525 min Scan# 96

Delta R.T. -0.001 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

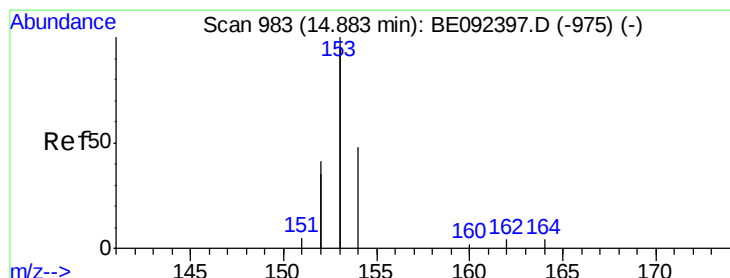
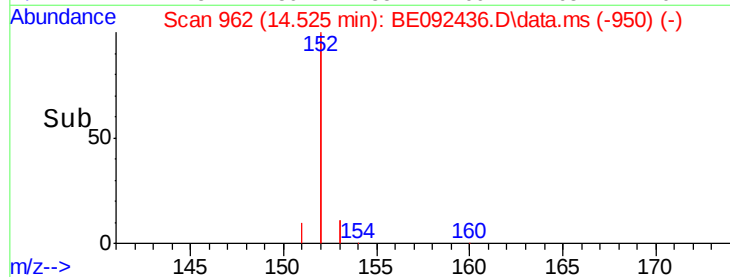
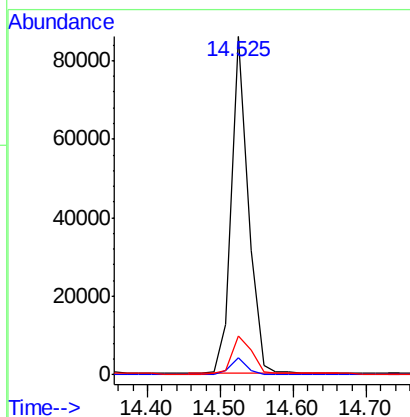
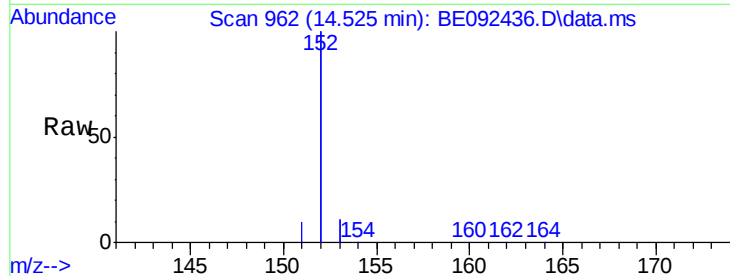
Tot Ion:152 Resp: 137417

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 12.9 10.4 15.6



#16

Acenaphthene

Concen: 3.08 ng

RT: 14.883 min Scan# 983

Delta R.T. -0.001 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

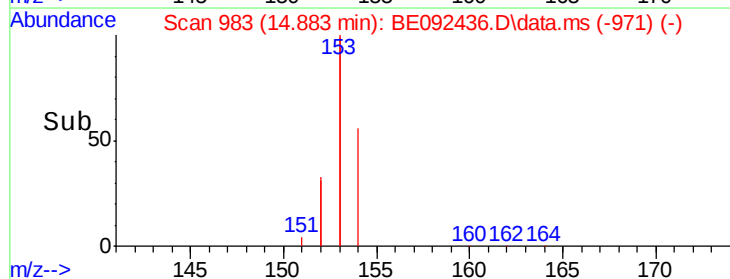
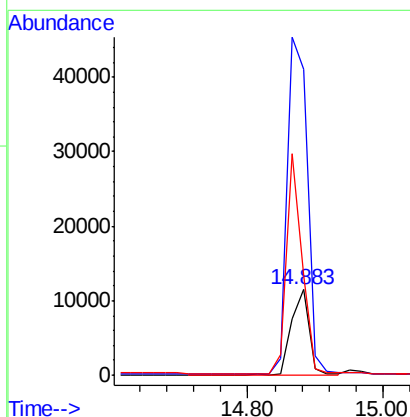
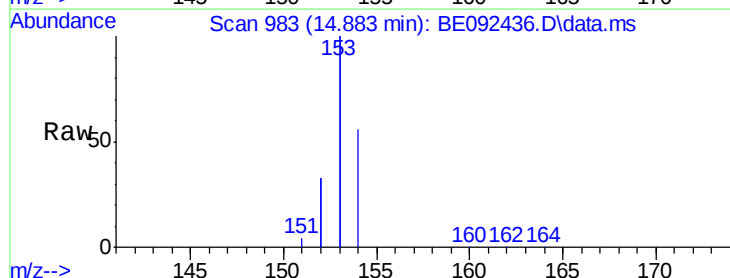
Tgt Ion:154 Resp: 20710

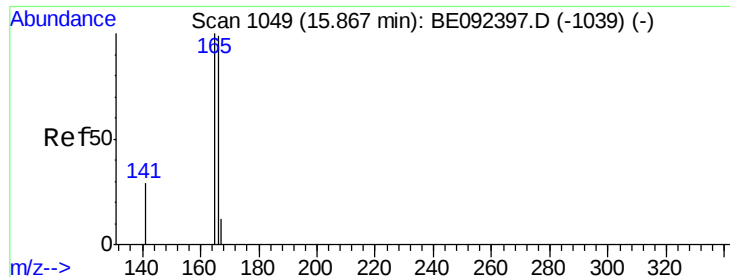
Ion Ratio Lower Upper

154 100

153 449.9 350.8 526.2

152 228.7 171.1 256.7

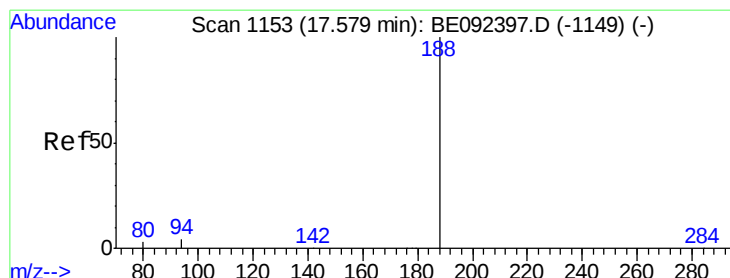
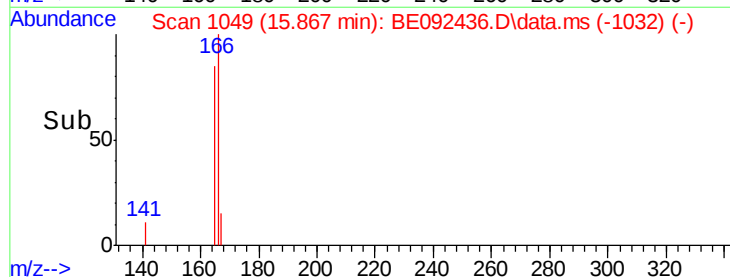
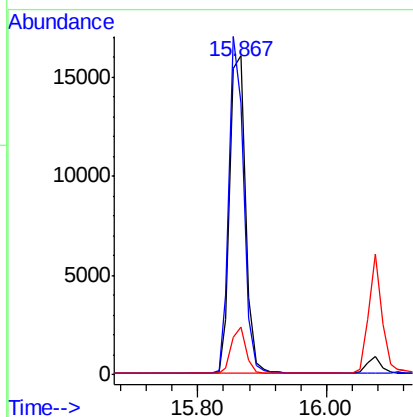
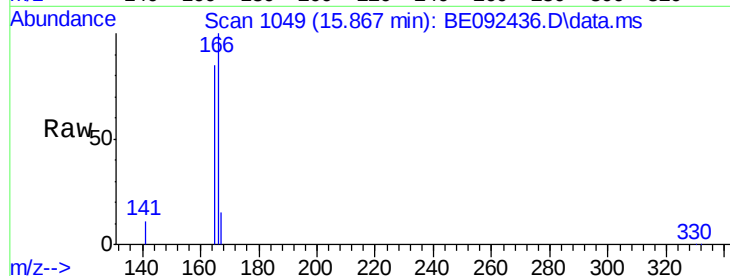




#17
 Fluorene
 Concen: 3.21 ng
 RT: 15.867 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

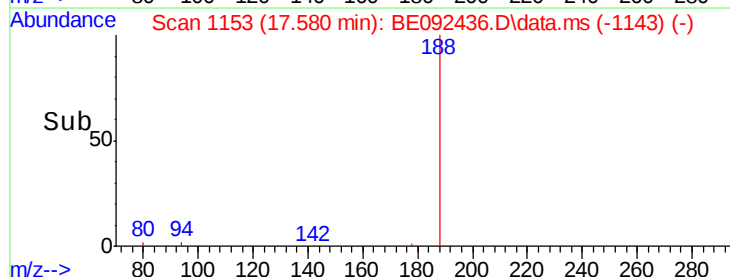
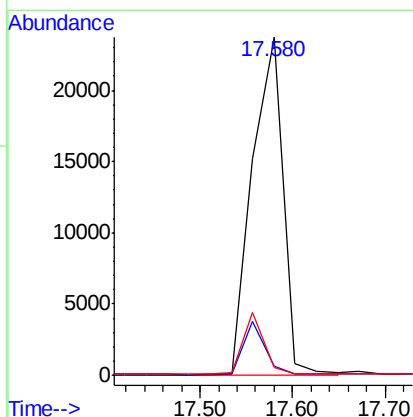
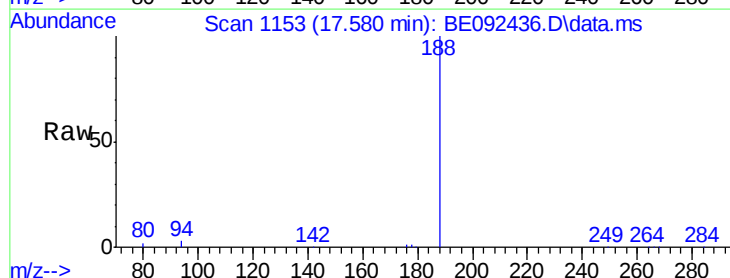
Instrument :
 BNA_E
 ClientSampleId :

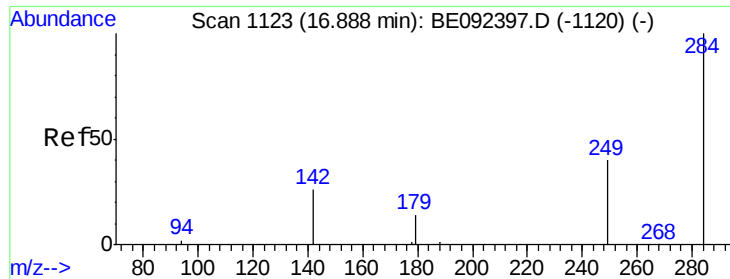
Tot Ion:166 Resp: 27308
 Ion Ratio Lower Upper
 166 100
 165 98.3 78.2 117.4
 167 13.4 11.0 16.4



#18
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.580 min Scan# 1153
 Delta R.T. 0.023 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

Tgt Ion:188 Resp: 55260
 Ion Ratio Lower Upper
 188 100
 94 2.7 3.2 4.8#
 80 2.1 2.6 3.8#





#19

Hexachlorobenzene

Concen: 3.45 ng

RT: 16.889 min Scan# 111

Delta R.T. 0.000 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

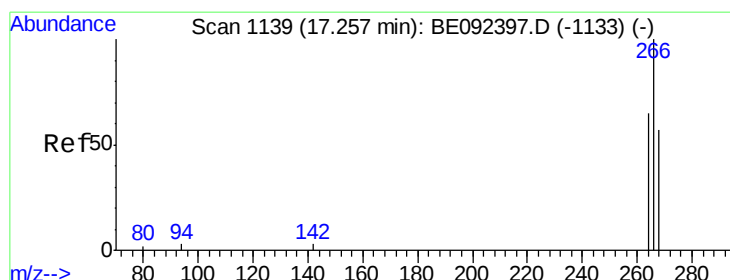
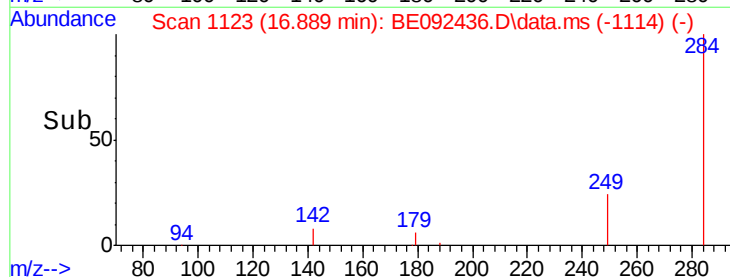
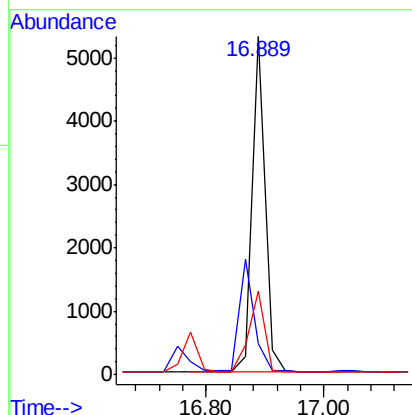
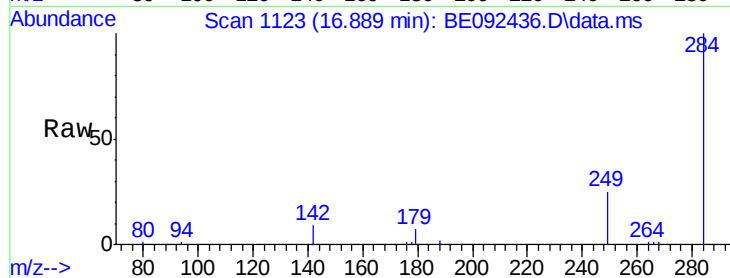
Tot Ion:284 Resp: 8171

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

249 29.1 27.9 41.9



#20

Pentachlorophenol

Concen: 7.92 ng

RT: 17.234 min Scan# 1138

Delta R.T. -0.023 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

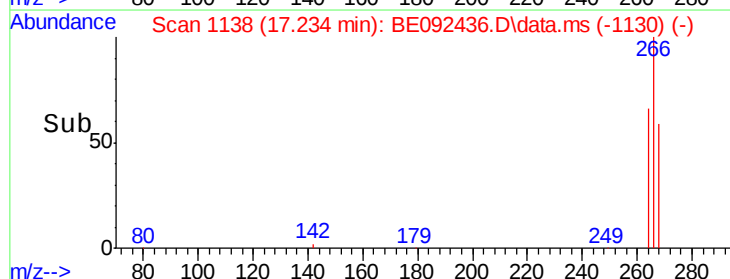
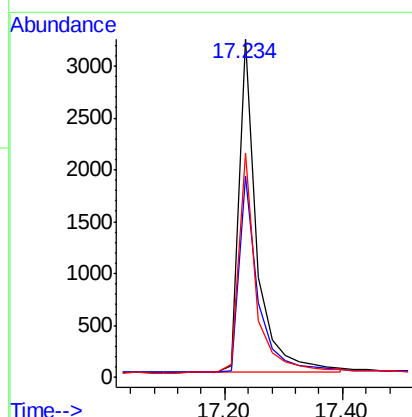
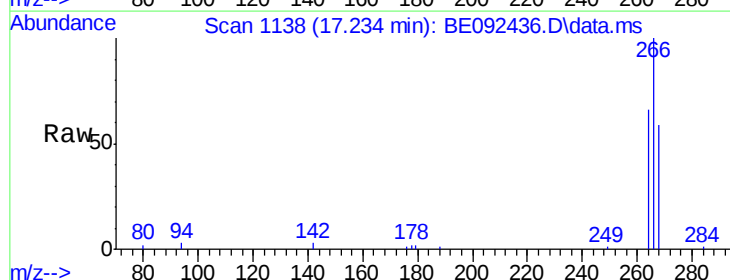
Tgt Ion:266 Resp: 6849

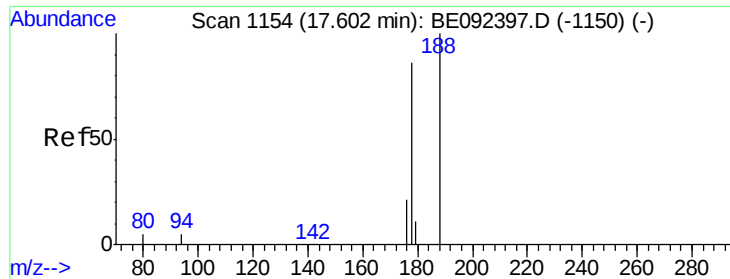
Ion Ratio Lower Upper

266 100

268 59.3 62.5 93.7#

264 66.1 57.2 85.8





#21

Phenanthrene

Concen: 3.62 ng

RT: 17.603 min Scan# 1154

Delta R.T. 0.001 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampled :

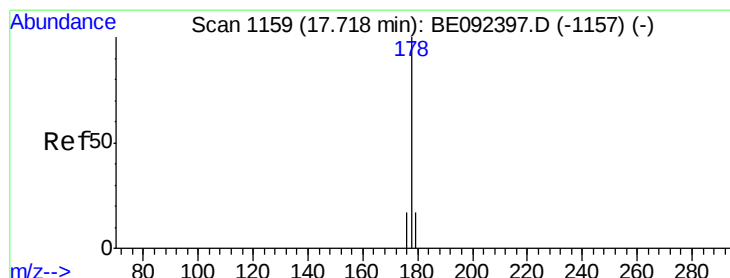
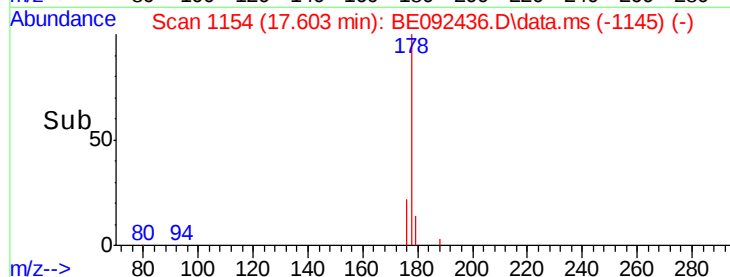
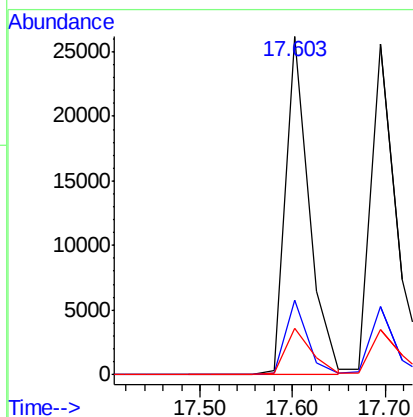
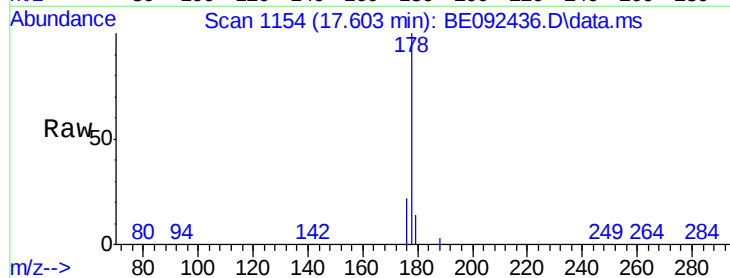
Tot Ion:178 Resp: 45940

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

179 15.1 16.0 24.0#



#22

Anthracene

Concen: 3.87 ng

RT: 17.695 min Scan# 1158

Delta R.T. 0.000 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

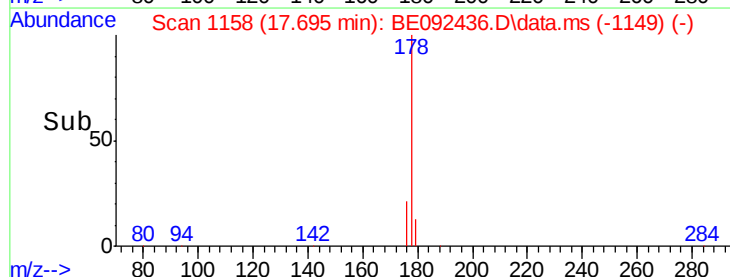
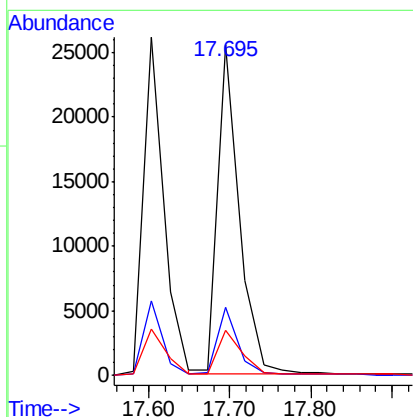
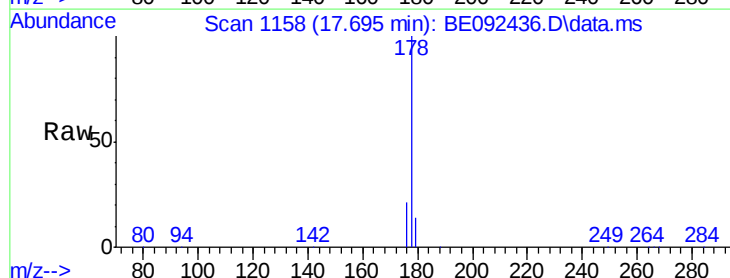
Tgt Ion:178 Resp: 47303

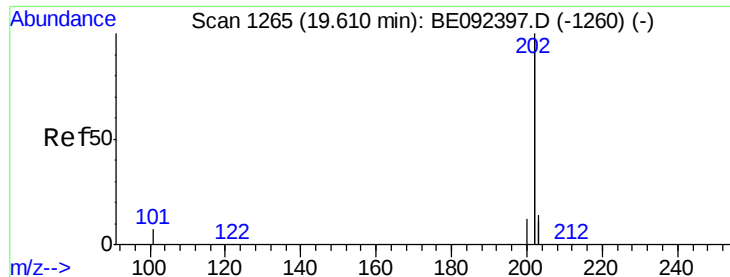
Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

179 14.7 12.2 18.2

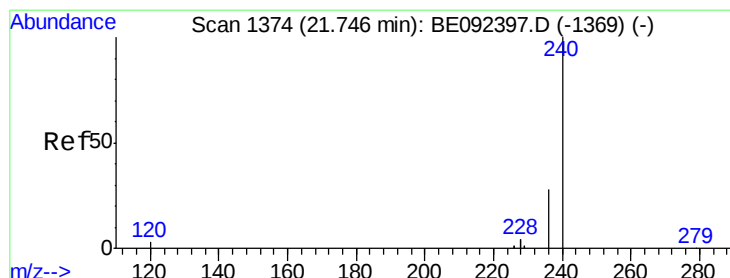
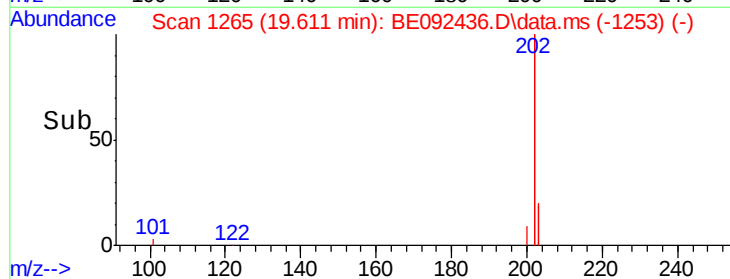
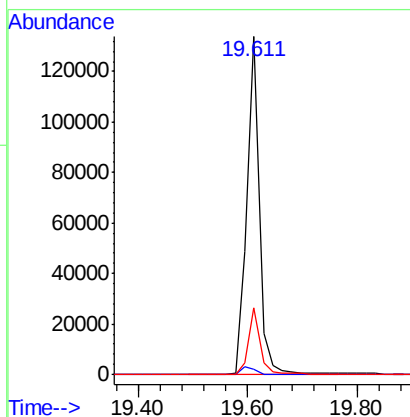
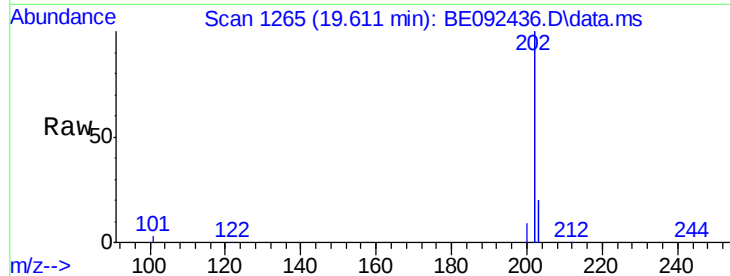




#23
Fluoranthene
Concen: 3.50 ng
RT: 19.611 min Scan# 1265
Delta R.T. 0.001 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

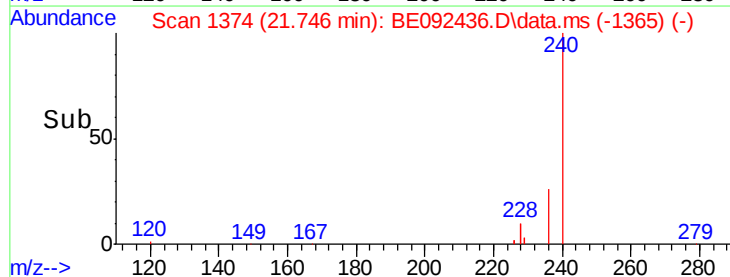
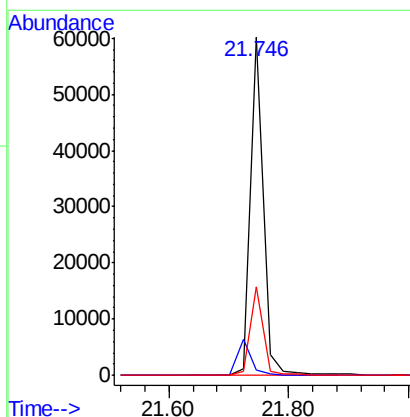
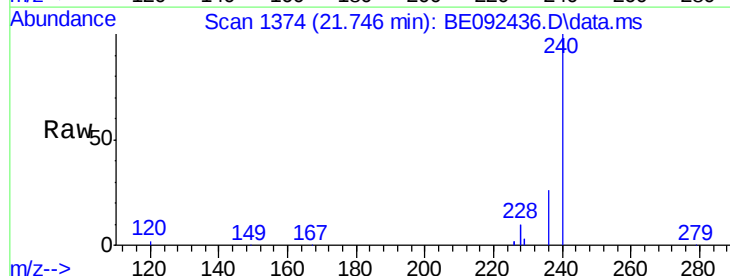
Instrument :
BNA_E
ClientSampleId :

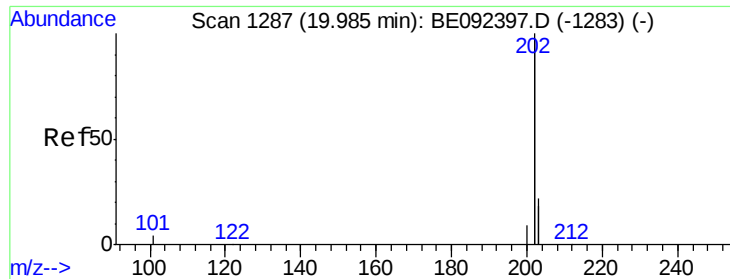
Tot Ion	Ratio	Lower	Upper
202	100		
101	2.8	2.2	3.4
203	17.9	13.7	20.5



#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.746 min Scan# 1374
Delta R.T. -0.000 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion	Ratio	Lower	Upper
240	100		
120	1.6	2.6	4.0#
236	26.0	24.6	37.0

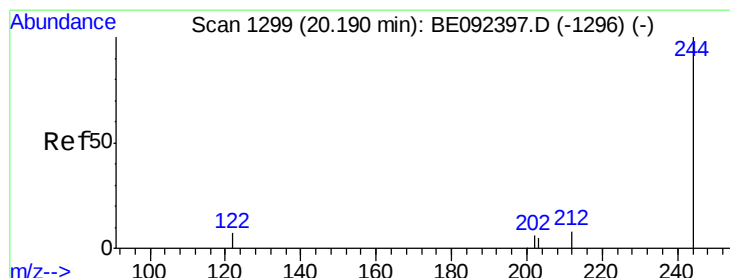
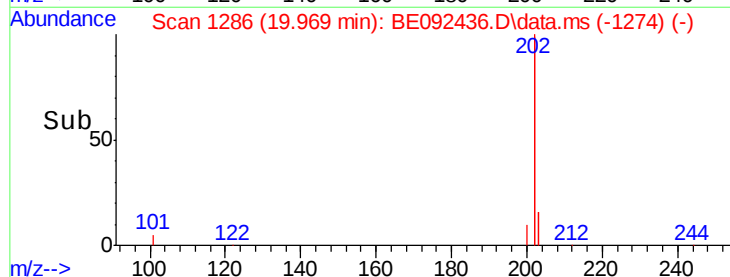
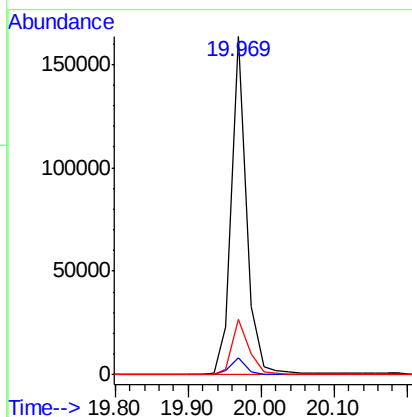
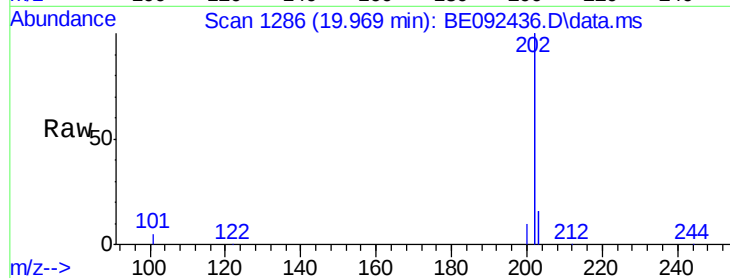




#25
Pvrene
Concen: 2.95 ng
RT: 19.969 min Scan# 1286
Delta R.T. 0.001 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

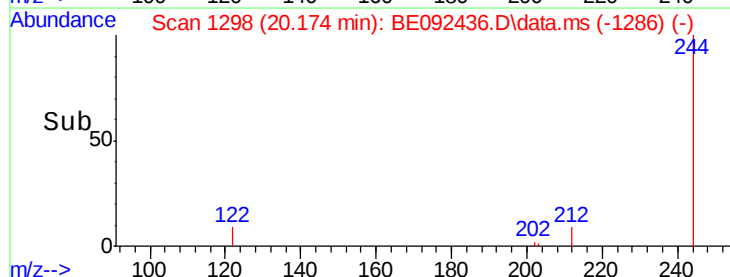
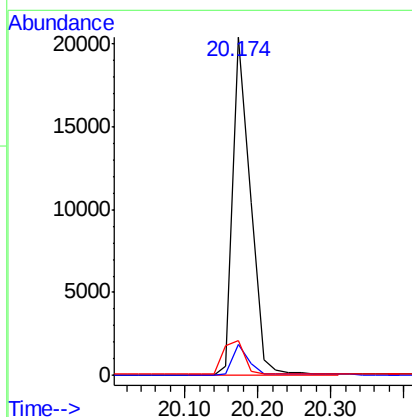
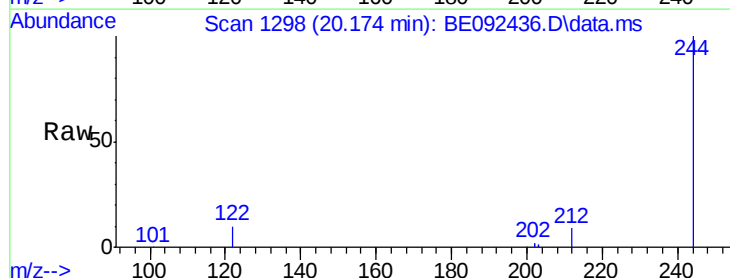
Instrument :
BNA_E
ClientSampleId :

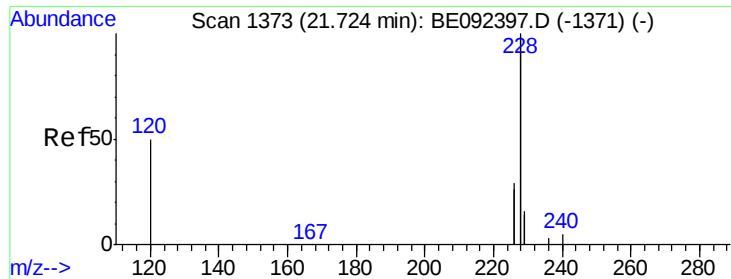
Tot Ion:202 Resp: 231008
Ion Ratio Lower Upper
202 100
200 5.3 4.2 6.4
203 17.7 13.9 20.9



#26
Terphenyl-d14
Concen: 3.00 ng
RT: 20.174 min Scan# 1298
Delta R.T. 0.001 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion:244 Resp: 33617
Ion Ratio Lower Upper
244 100
212 9.2 6.7 10.1
122 10.4 3.6 5.4#

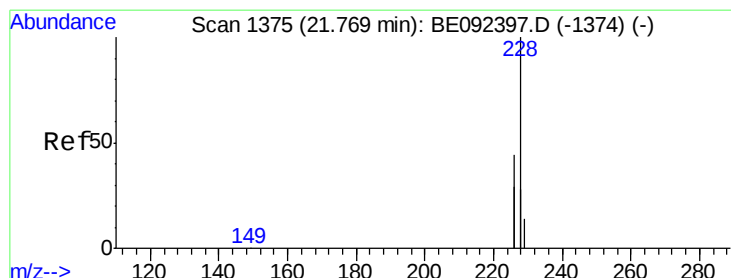
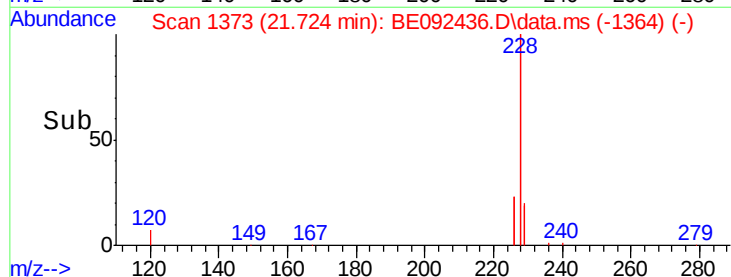
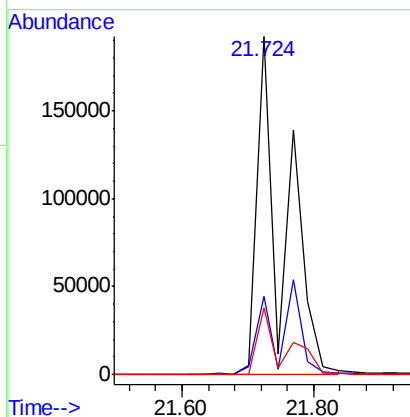
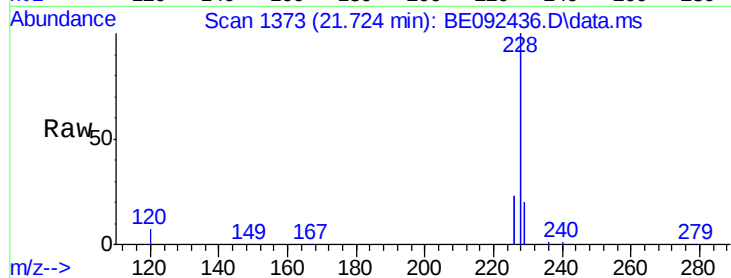




#27
Benzo(a)anthracene
Concen: 6.09 ng
RT: 21.724 min Scan# 1373
Delta R.T. -0.000 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

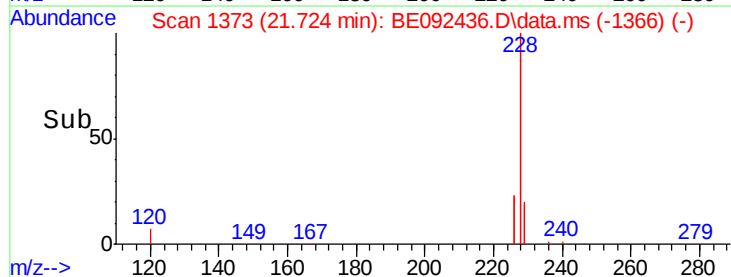
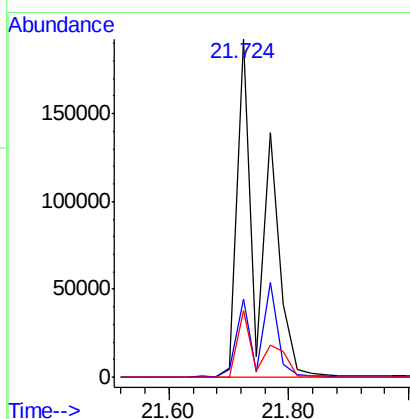
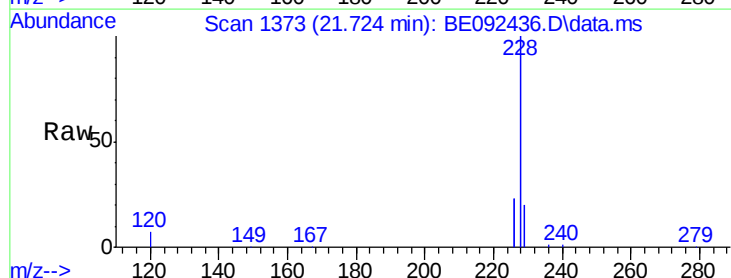
Instrument :
BNA_E
ClientSampleId :

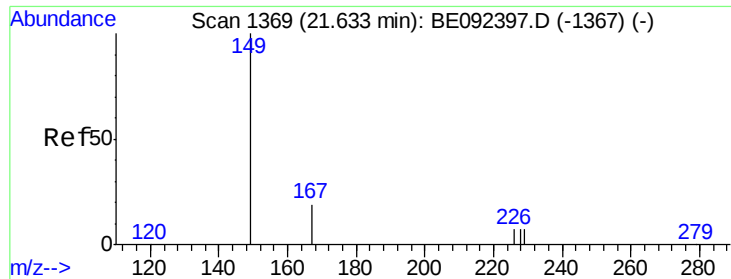
Tot Ion	Ratio	Lower	Upper
228	100		
226	23.0	23.6	35.4#
229	19.6	13.3	19.9



#28
Chrysene
Concen: 6.69 ng
RT: 21.724 min Scan# 1373
Delta R.T. -0.044 min
Lab File: BE092436.D
Acq: 30 Sep 2016 15:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.0	36.3	54.5#
229	19.6	10.6	16.0#

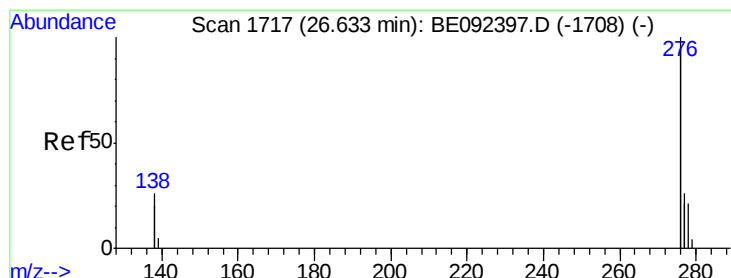
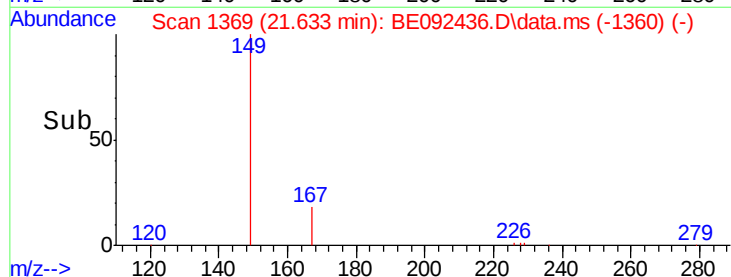
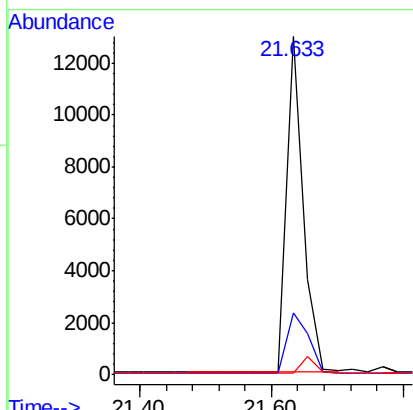
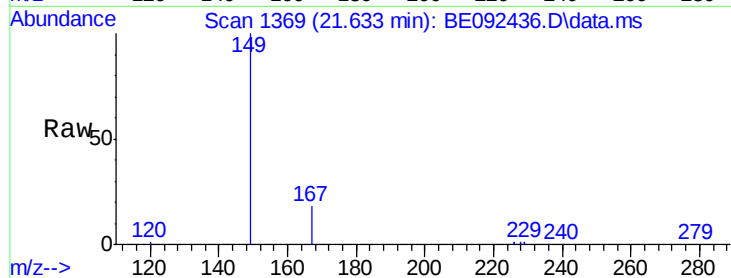




#29
 Bis(2-ethylhexyl)phthalate
 Concen: 3.00 ng
 RT: 21.633 min Scan# 1369
 Delta R.T. 0.000 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

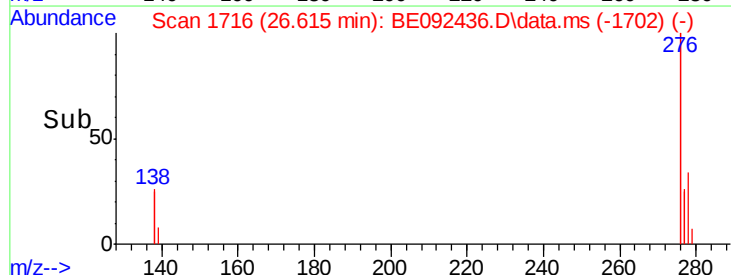
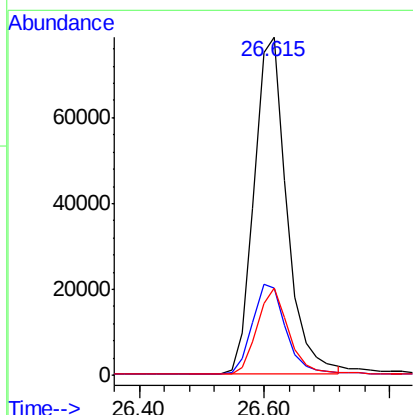
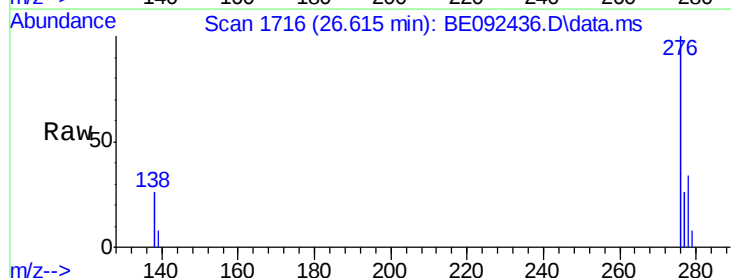
Instrument :
 BNA_E
 ClientSampleId :

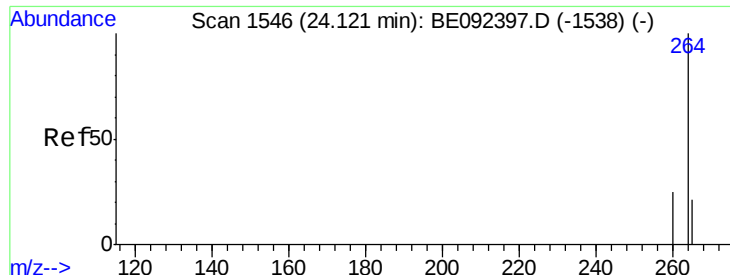
Tot Ion:149 Resp: 22755
 Ion Ratio Lower Upper
 149 100
 167 23.5 16.0 24.0
 279 0.0 16.0 24.0#



#30
 Indeno(1,2,3-cd)pyrene
 Concen: 3.36 ng
 RT: 26.615 min Scan# 1716
 Delta R.T. 0.034 min
 Lab File: BE092436.D
 Acq: 30 Sep 2016 15:11

Tgt Ion:276 Resp: 288115
 Ion Ratio Lower Upper
 276 100
 138 27.5 20.3 30.5
 277 24.8 19.7 29.5





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.112 min Scan# 15

Delta R.T. 0.025 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

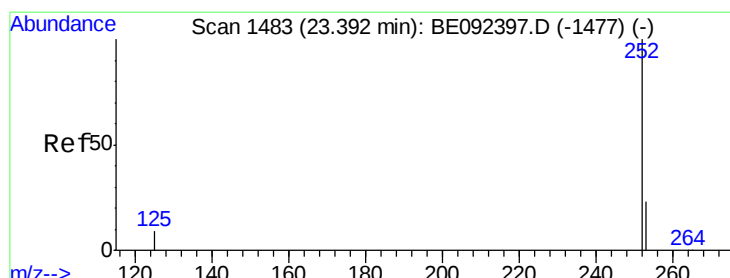
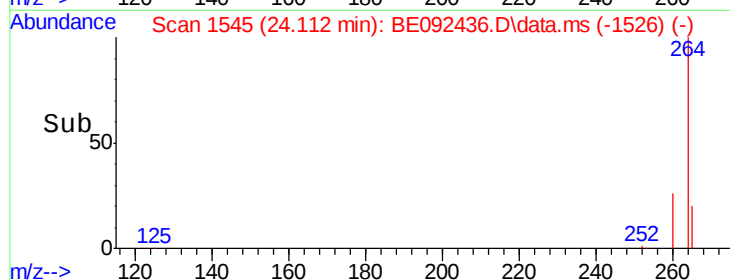
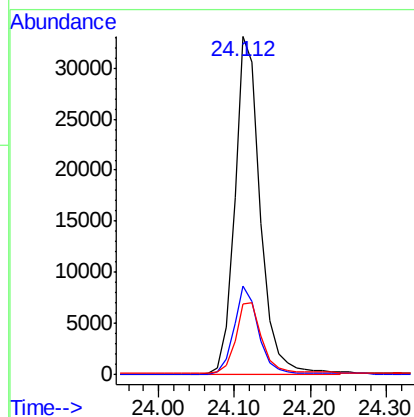
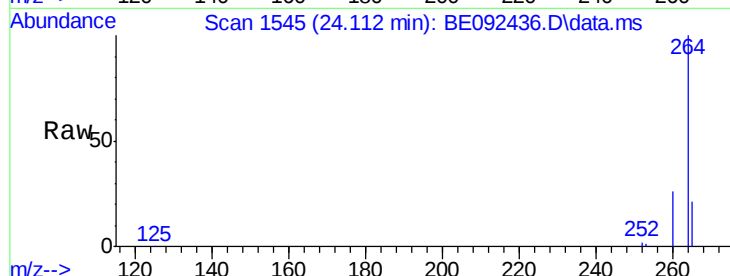
Tot Ion:264 Resp: 77171

Ion Ratio Lower Upper

264 100

260 26.4 20.1 30.1

265 20.9 17.9 26.9



#32

Benzo(b)fluoranthene

Concen: 3.58 ng

RT: 23.383 min Scan# 1482

Delta R.T. 0.025 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

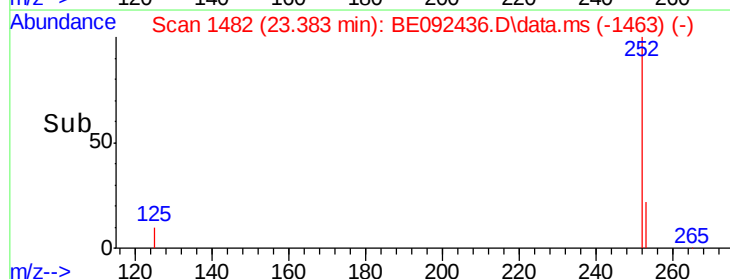
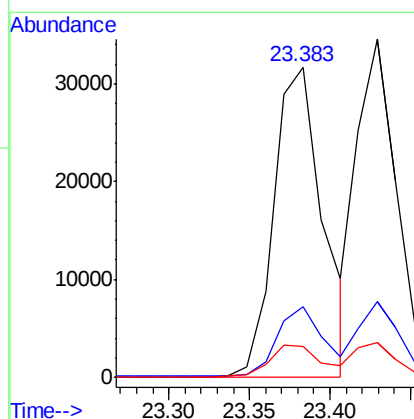
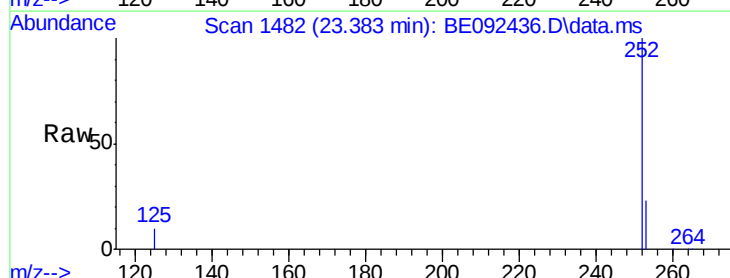
Tgt Ion:252 Resp: 66938

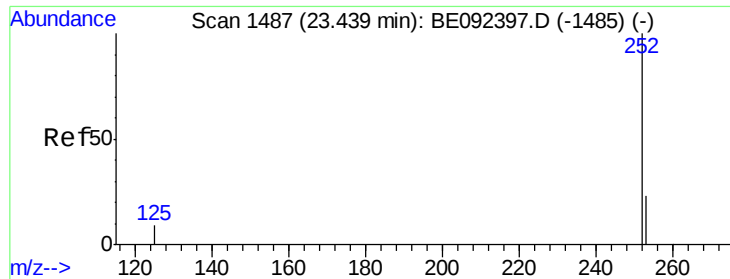
Ion Ratio Lower Upper

252 100

253 22.7 18.7 28.1

125 10.0 10.5 15.7#





#33

Benzo(k)fluoranthene

Concen: 3.20 ng

RT: 23.429 min Scan# 1486

Delta R.T. 0.025 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

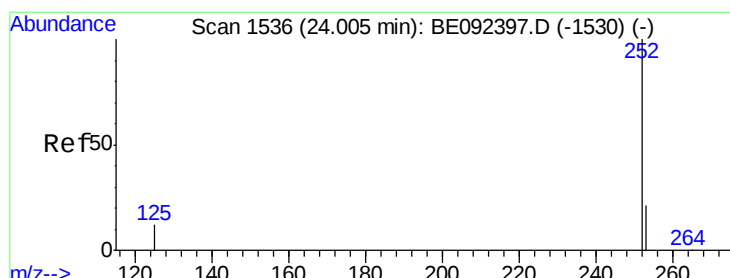
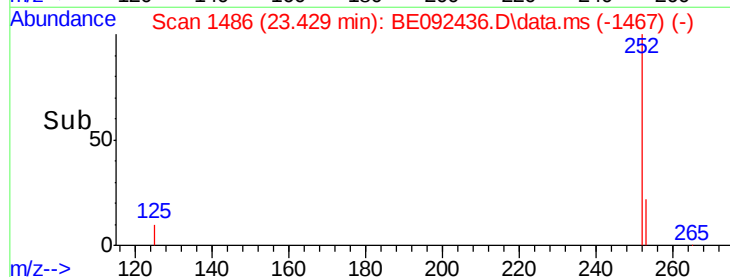
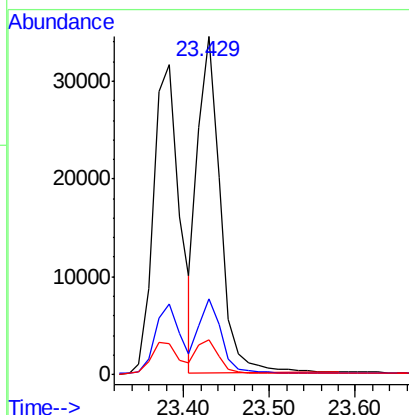
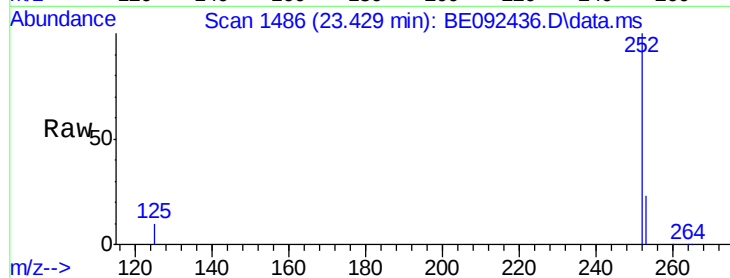
Tot Ion:252 Resp: 62638

Ion Ratio Lower Upper

252 100

253 22.5 20.3 30.5

125 10.1 9.6 14.4



#34

Benzo(a)pyrene

Concen: 3.47 ng

RT: 24.008 min Scan# 1536

Delta R.T. 0.025 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

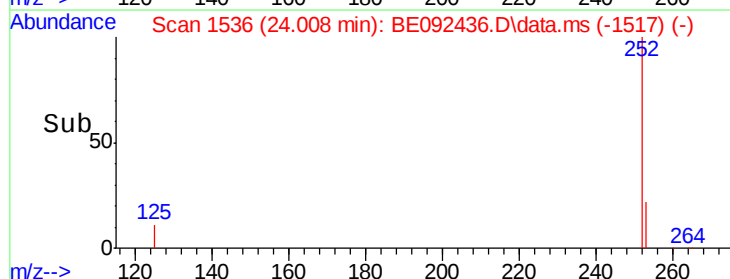
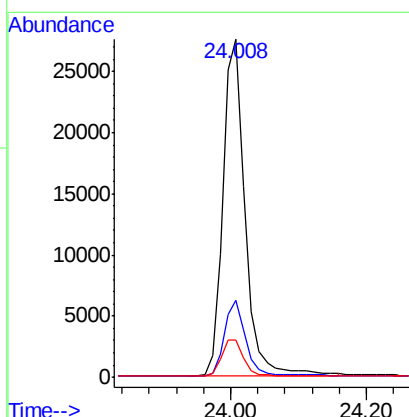
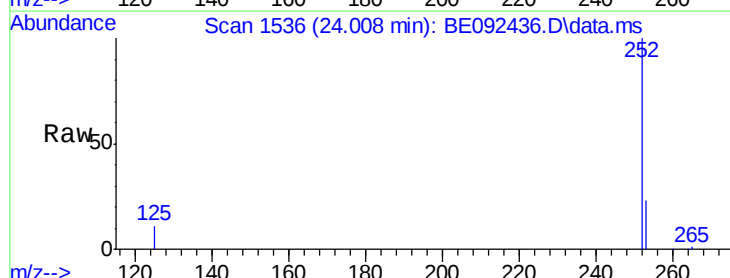
Tgt Ion:252 Resp: 63548

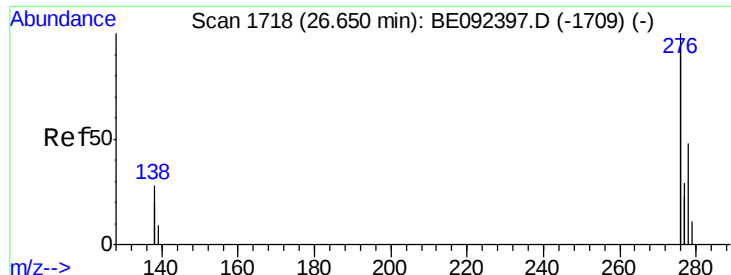
Ion Ratio Lower Upper

252 100

253 22.6 19.0 28.6

125 10.9 11.8 17.8#





#35

Dibenzo(a,h)anthracene

Concen: 3.59 ng

RT: 26.632 min Scan# 1718

Delta R.T. 0.034 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Instrument :

BNA_E

ClientSampleId :

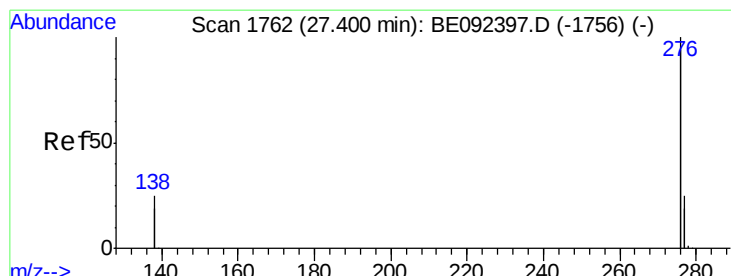
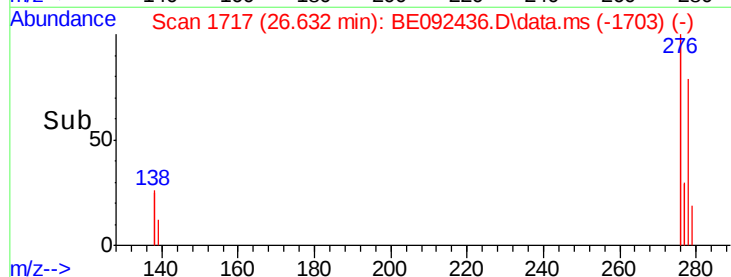
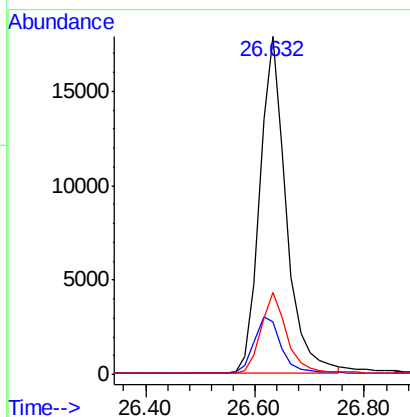
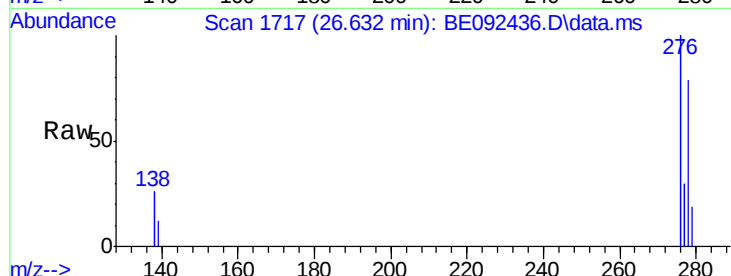
Tot Ion:278 Resp: 60231

Ion Ratio Lower Upper

278 100

139 15.4 13.8 20.8

279 24.3 21.4 32.2



#36

Benzo(g,h,i)perylene

Concen: 3.44 ng

RT: 27.382 min Scan# 1761

Delta R.T. 0.034 min

Lab File: BE092436.D

Acq: 30 Sep 2016 15:11

Tgt Ion:276 Resp: 247873

Ion Ratio Lower Upper

276 100

277 23.6 19.8 29.8

138 22.9 19.8 29.6

