

Data Path : Z:\HPCHEM1\BNA E\Data\BE093016\
 Data File : BE092435.D
 Acq On : 30 Sep 2016 14:35
 Operator : UM/SJ
 Sample : PB93716BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 30 16:23:45 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	8.165	152	10911	5.00	ng	-0.02
7) Naphthalene-d8	10.951	136	47068	5.00	ng	0.00
12) Acenaphthene-d10	14.815	164	30281	5.00	ng	0.00
18) Phenanthrene-d10	17.579	188	54694	5.00	ng	0.02
24) Chrysene-d12	21.747	240	87860	5.00	ng	0.00
31) Perylene-d12	24.122	264	76694	5.00	ng	0.04

System Monitoring Compounds						
4) 2-Fluorophenol	5.670	112	17903	6.97	ng	-0.02
5) Phenol-d6	7.336	99	22929	6.26	ng	-0.02
8) Nitrobenzene-d5	9.340	82	11182	3.35	ng	-0.02
13) 2,4,6-Tribromophenol	16.308	330	6346	5.95	ng	-0.01
14) 2-Fluorobiphenyl	13.433	172	26897	3.75	ng	-0.01
26) Terphenyl-d14	20.174	244	36120	3.31	ng	0.00

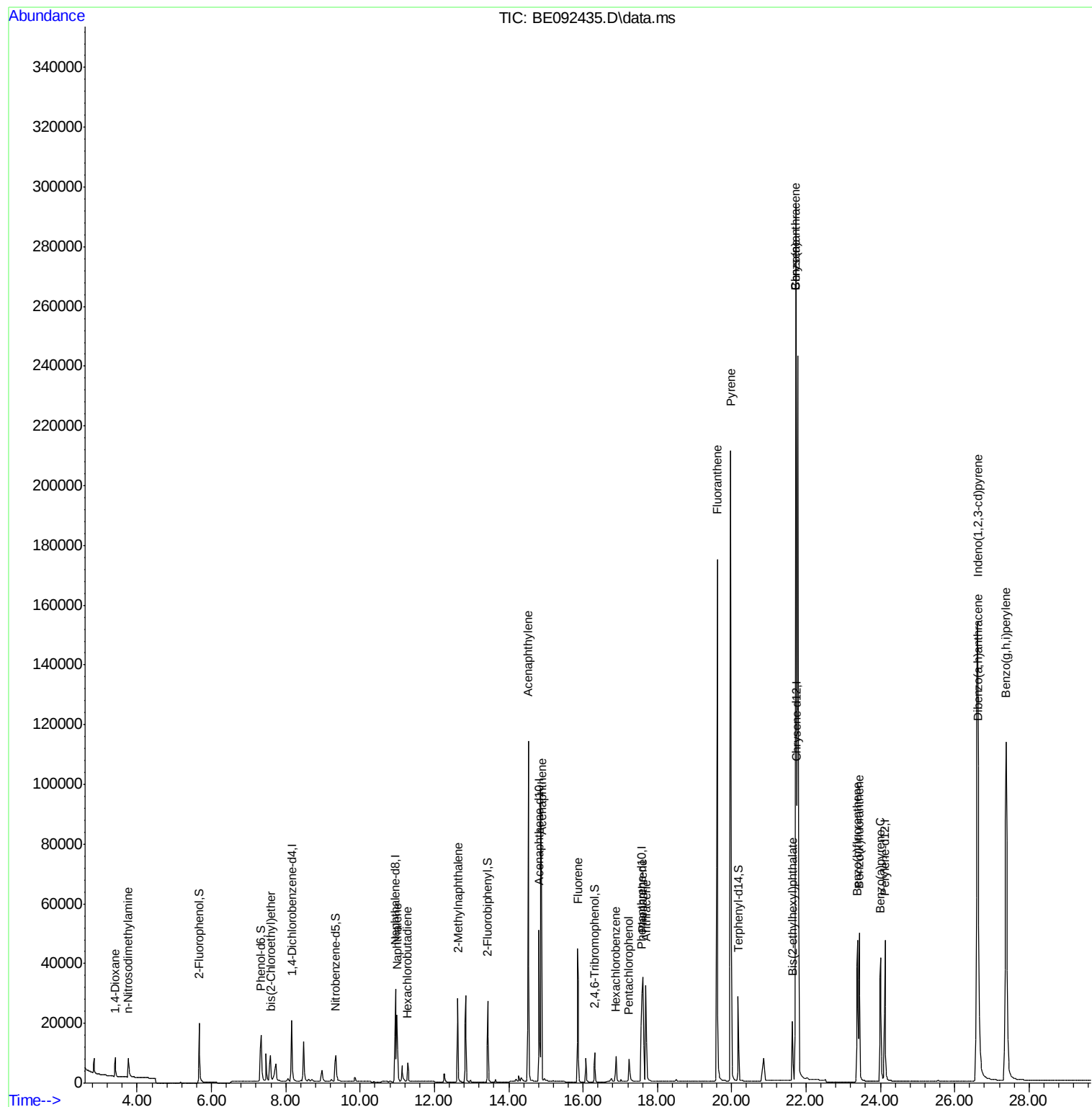
Target Compounds						Qvalue
2) 1,4-Dioxane	3.409	88	3757	3.18	ng	# 83
3) n-Nitrosodimethylamine	3.756	42	5907	3.47	ng	# 98
6) bis(2-Chloroethyl)ether	7.589	93	9605	3.36	ng	# 26
9) Naphthalene	10.990	128	33915	3.33	ng	# 95
10) Hexachlorobutadiene	11.278	225	5231	3.26	ng	100
11) 2-Methylnaphthalene	12.624	142	22835	3.39	ng	# 91
15) Acenaphthylene	14.526	152	150902	3.44	ng	100
16) Acenaphthene	14.883	154	22580	3.29	ng	92
17) Fluorene	15.856	166	29830	3.43	ng	99
19) Hexachlorobenzene	16.887	284	8820	3.77	ng	# 65
20) Pentachlorophenol	17.233	266	7241	8.44	ng	# 86
21) Phenanthrene	17.602	178	47982	3.82	ng	# 94
22) Anthracene	17.694	178	47974	3.97	ng	98
23) Fluoranthene	19.612	202	227494	3.81	ng	99
25) Pyrene	19.970	202	245464	3.22	ng	98
27) Benzo(a)anthracene	21.724	228	569932	6.66	ng	# 89
28) Chrysene	21.724	228	572934	7.31	ng	# 69
29) Bis(2-ethylhexyl)phtha...	21.634	149	26849	3.64	ng	# 76
30) Indeno(1,2,3-cd)pyrene	26.616	276	318040	3.82	ng	98
32) Benzo(b)fluoranthene	23.382	252	72236	3.89	ng	# 96
33) Benzo(k)fluoranthene	23.428	252	67744	3.48	ng	94
34) Benzo(a)pyrene	24.007	252	68847	3.78	ng	# 95
35) Dibenzo(a,h)anthracene	26.634	278	65698	3.94	ng	96
36) Benzo(g,h,i)perylene	27.383	276	273012	3.81	ng	97

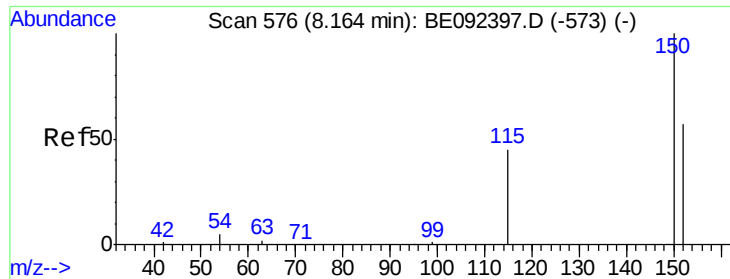
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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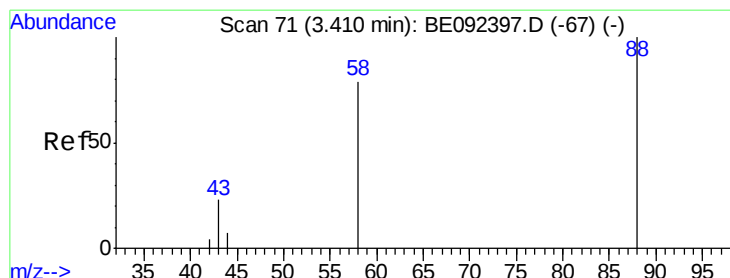
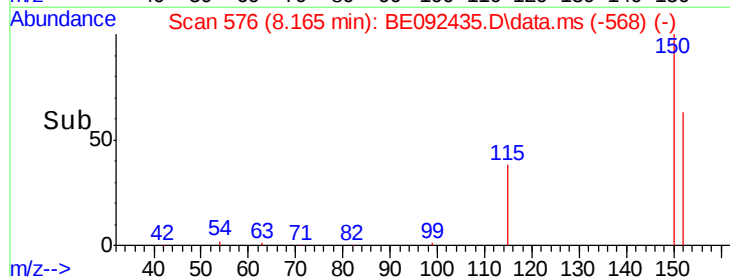
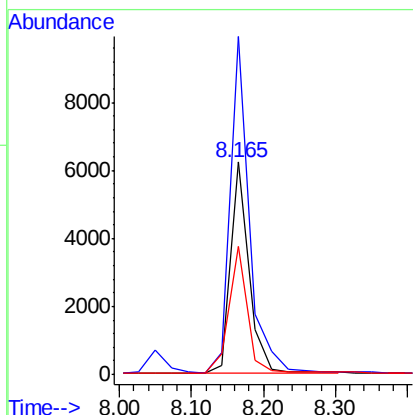
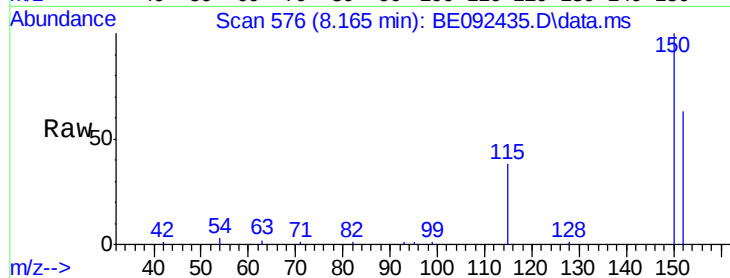




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.165 min Scan# 57
 Delta R.T. -0.022 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

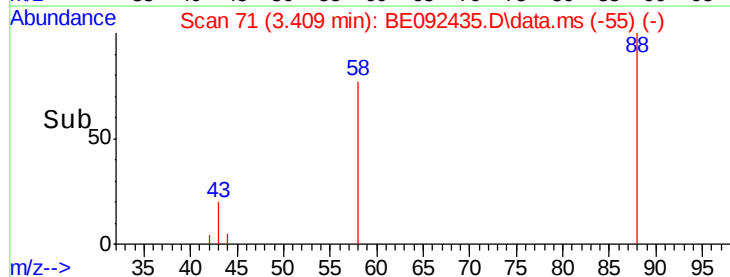
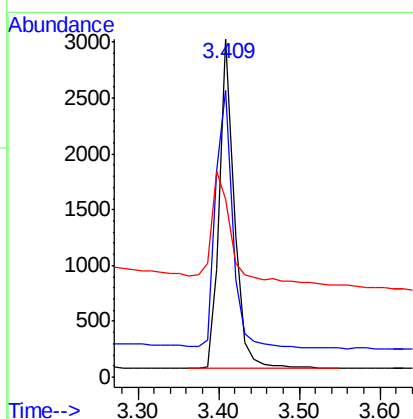
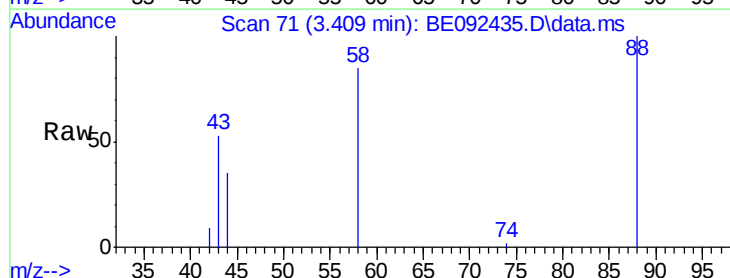
Instrument :
 BNA_E
 ClientSampleId :

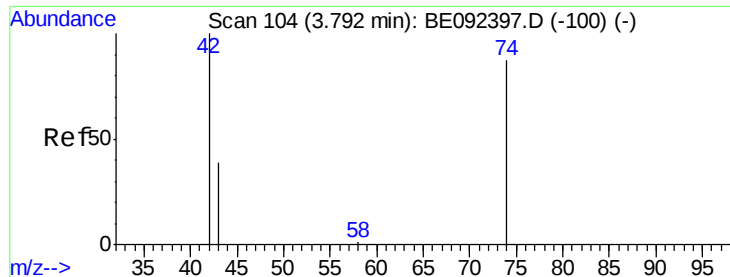
Tot Ion:152 Resp: 10911
 Ion Ratio Lower Upper
 152 100
 150 159.2 106.0 159.0#
 115 60.5 31.2 46.8#



#2
 1,4-Dioxane
 Concen: 3.18 ng
 RT: 3.409 min Scan# 71
 Delta R.T. -0.012 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

Tgt Ion: 88 Resp: 3757
 Ion Ratio Lower Upper
 88 100
 58 91.7 63.6 95.4
 43 49.3 28.0 42.0#

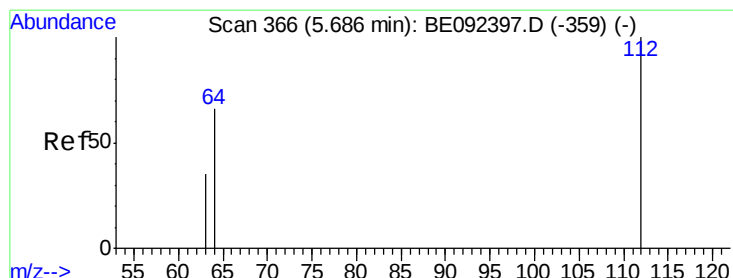
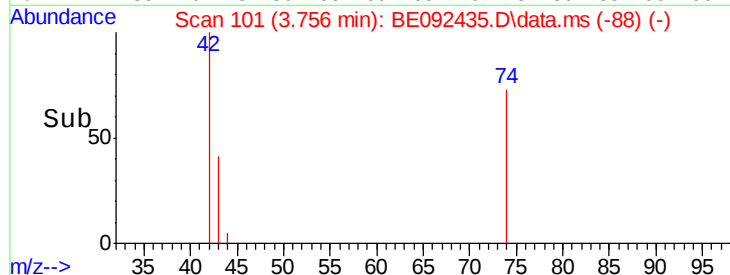
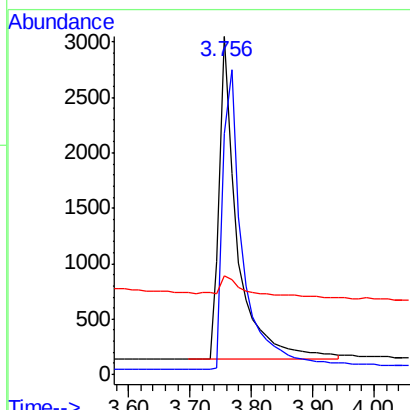
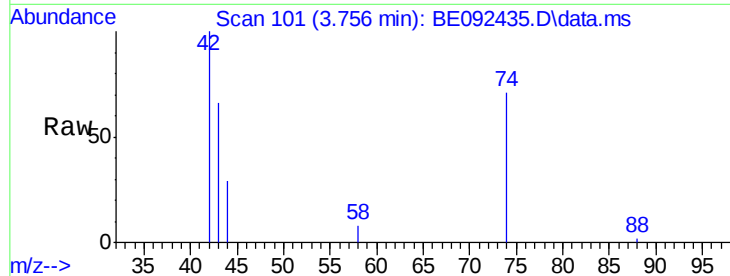




#3
n-Nitrosodimethylamine
Concen: 3.47 ng
RT: 3.756 min Scan# 101
Delta R.T. -0.046 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

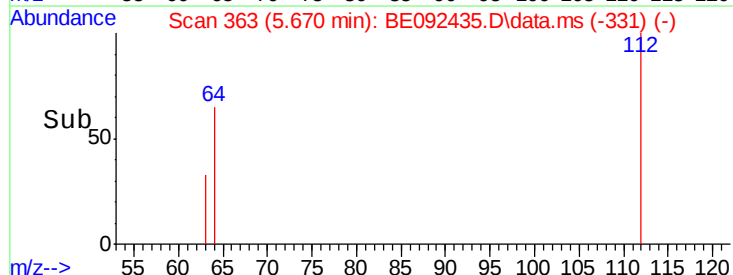
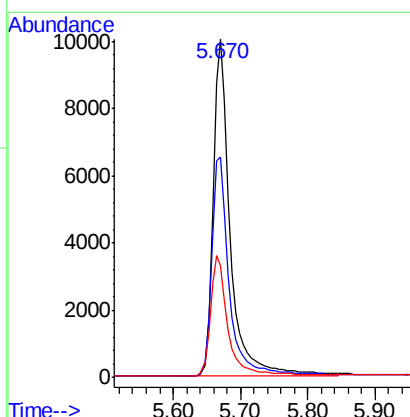
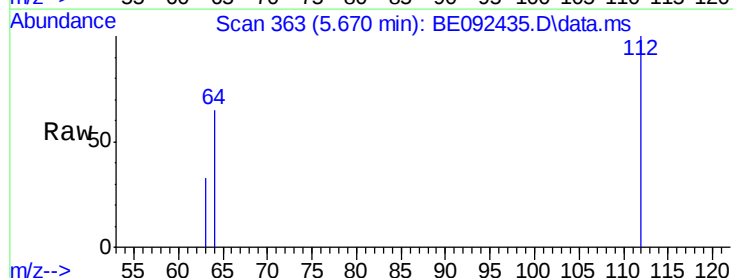
Instrument :
BNA_E
ClientSampleId :

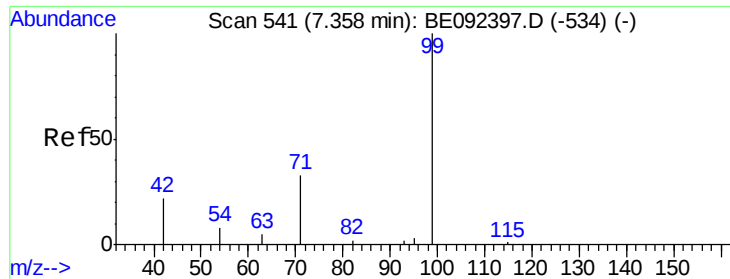
Tot Ion: 42 Resp: 5907
Ion Ratio Lower Upper
42 100
74 106.4 86.0 129.0
44 10.4 5.1 7.7#



#4
2-Fluorophenol
Concen: 6.97 ng
RT: 5.670 min Scan# 363
Delta R.T. -0.016 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

Tgt Ion: 112 Resp: 17903
Ion Ratio Lower Upper
112 100
64 67.1 53.5 80.3
63 36.0 27.9 41.9





#5

Phenol-d6

Concen: 6.26 ng

RT: 7.336 min Scan# 541

Delta R.T. -0.022 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

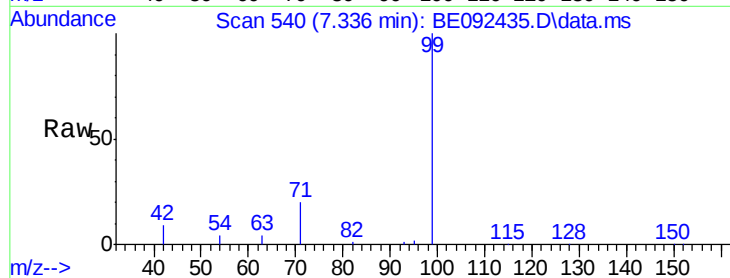
Tot Ion: 99 Resp: 22929

Ion Ratio Lower Upper

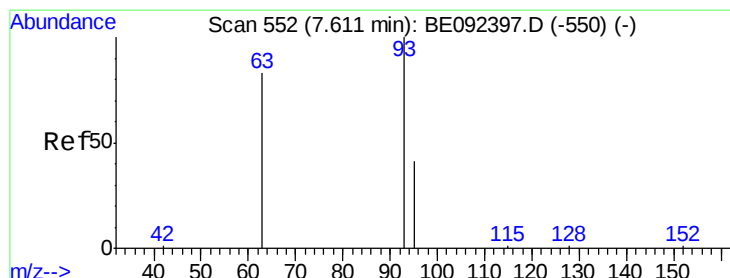
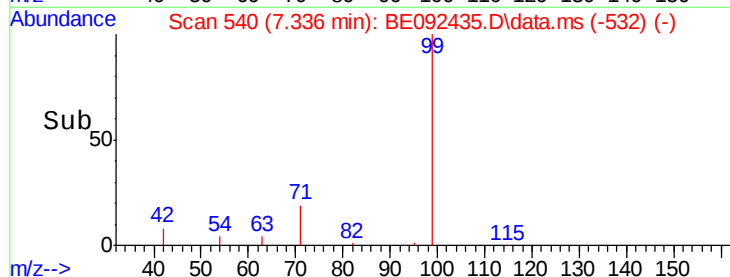
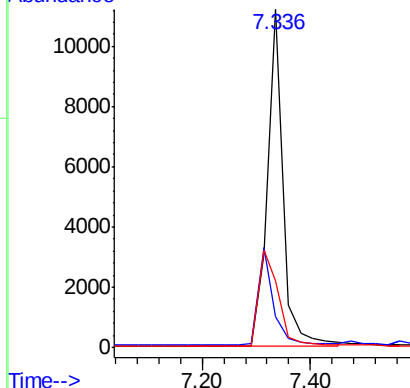
99 100

42 0.0 16.0 24.0#

71 0.0 30.6 45.8#



Abundance



#6

bis(2-Chloroethyl)ether

Concen: 3.36 ng

RT: 7.589 min Scan# 551

Delta R.T. -0.022 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

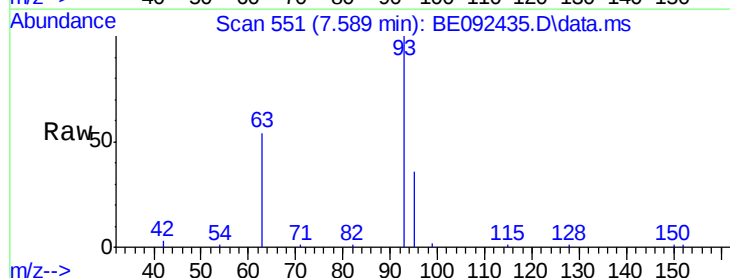
Tgt Ion: 93 Resp: 9605

Ion Ratio Lower Upper

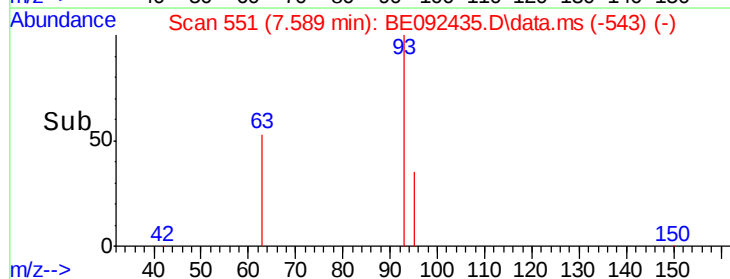
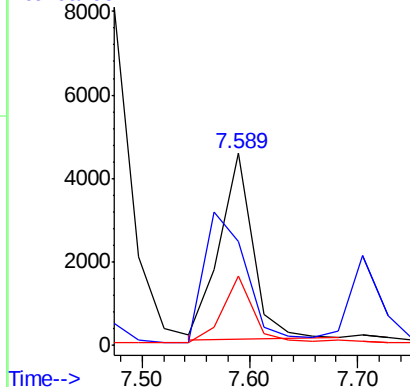
93 100

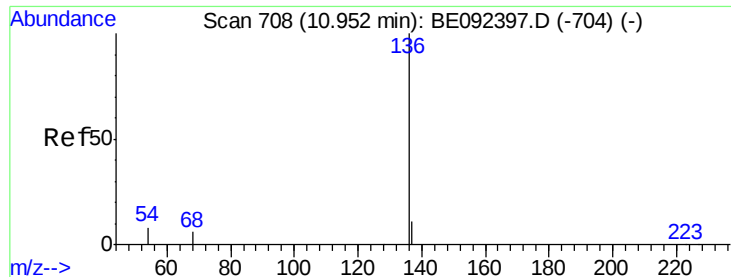
63 0.0 71.6 107.4#

95 34.7 24.0 36.0



Abundance





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.951 min Scan# 70

Delta R.T. -0.001 min

Lab File: BE092435.D

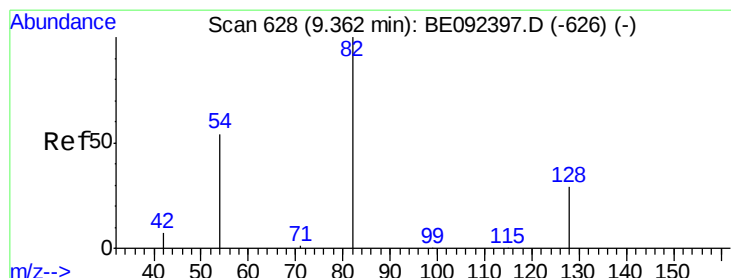
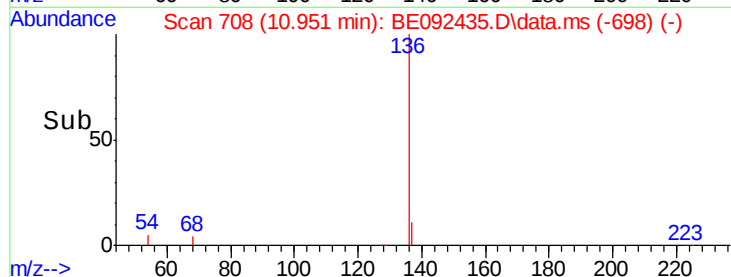
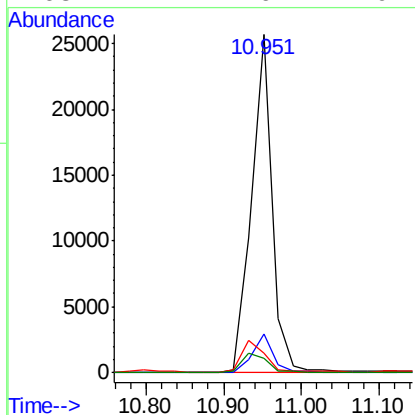
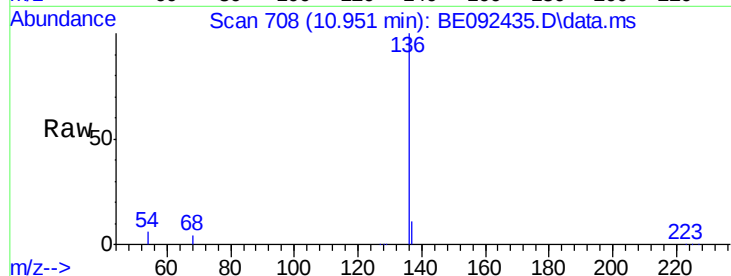
Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136	Resp:	47068
Ion Ratio	Lower	Upper
136	100	
137	11.4	8.2 12.4
54	5.6	9.6 14.4#
68	4.4	6.7 10.1#



#8

Nitrobenzene-d5

Concen: 3.35 ng

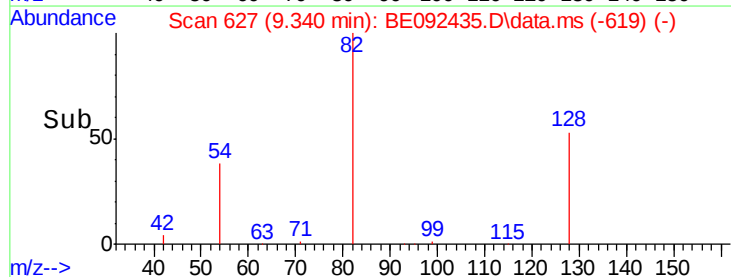
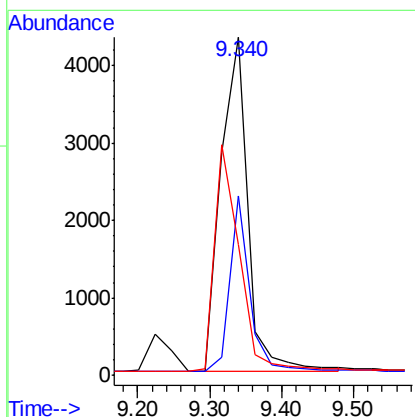
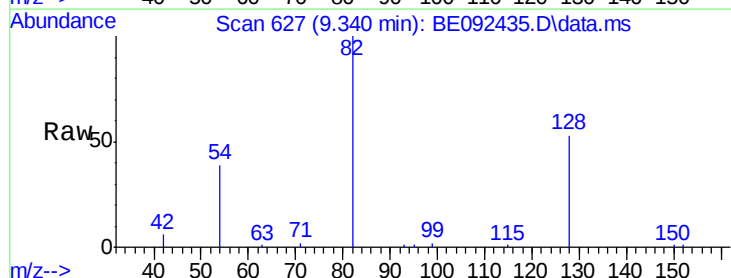
RT: 9.340 min Scan# 627

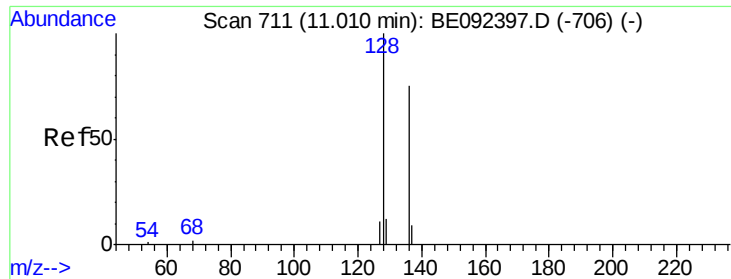
Delta R.T. -0.022 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Tgt Ion: 82	Resp:	11182
Ion Ratio	Lower	Upper
82	100	
128	53.2	39.0 58.4
54	38.7	44.8 67.2#





#9

Naphthalene

Concen: 3.33 ng

RT: 10.990 min Scan# 711

Delta R.T. -0.020 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

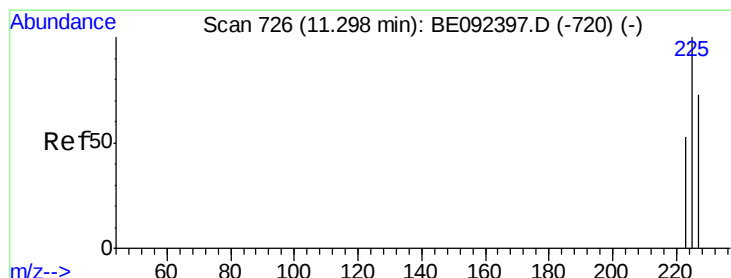
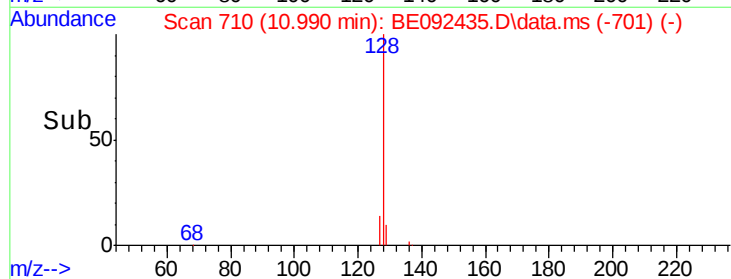
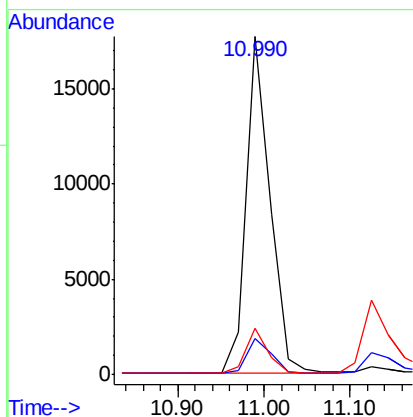
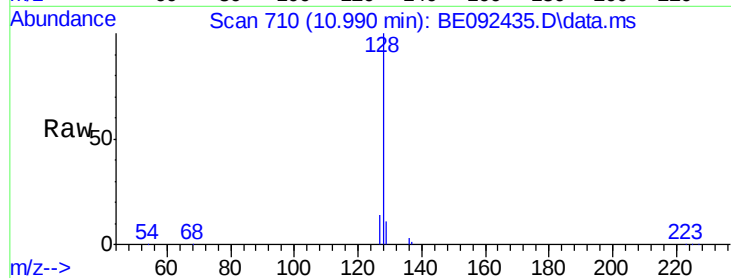
Instrument :

BNA_E

ClientSampleId :

Tot Ion:128 Resp: 33915

Ion	Ratio	Lower	Upper
128	100		
129	10.7	11.2	16.8#
127	13.9	11.6	17.4



#10

Hexachlorobutadiene

Concen: 3.26 ng

RT: 11.278 min Scan# 725

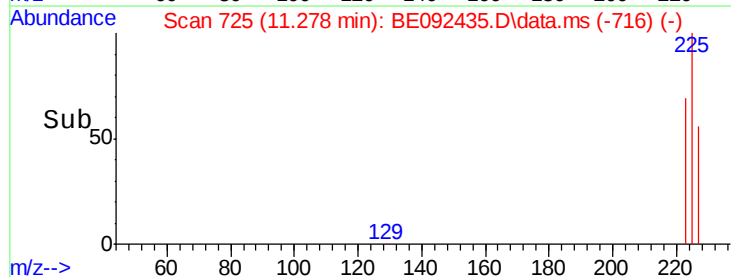
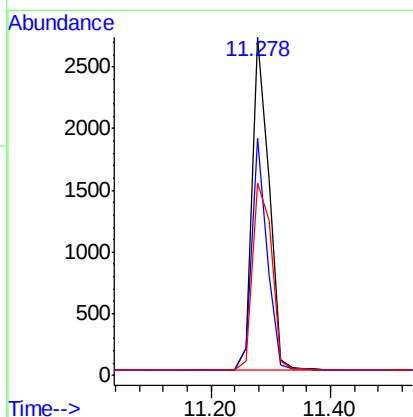
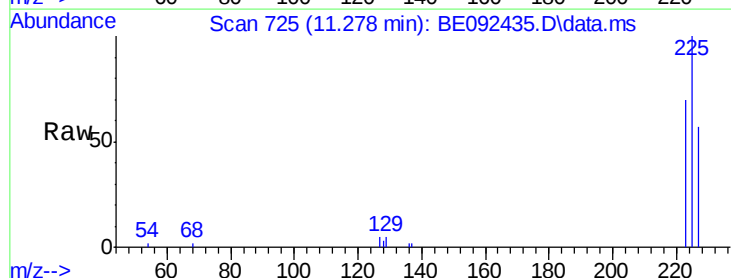
Delta R.T. -0.020 min

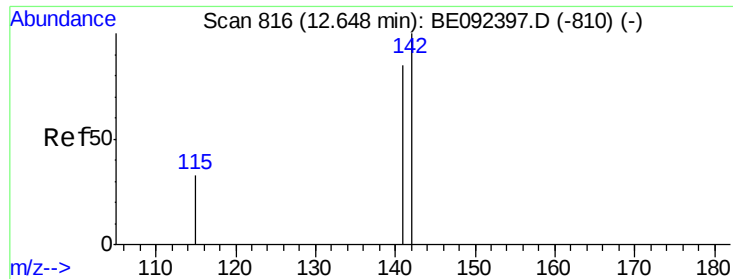
Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Tgt Ion:225 Resp: 5231

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.6	76.0
227	63.8	51.4	77.0

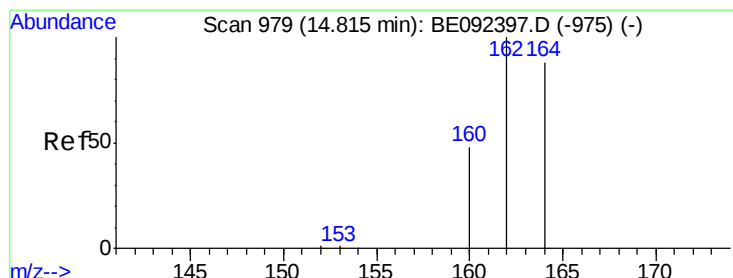
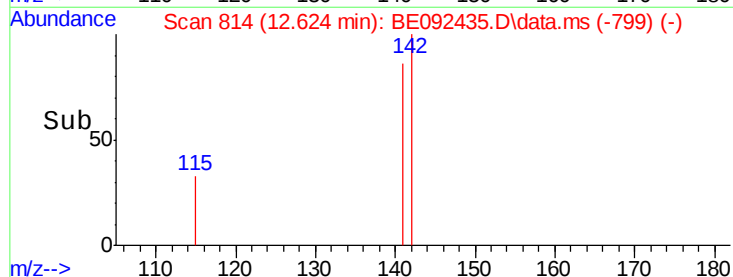
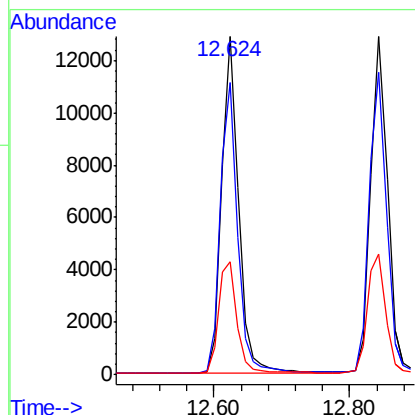
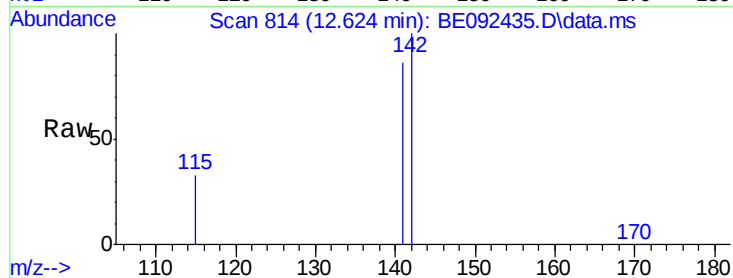




#11
2-Methylnaphthalene
Concen: 3.39 ng
RT: 12.624 min Scan# 81
Delta R.T. -0.024 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

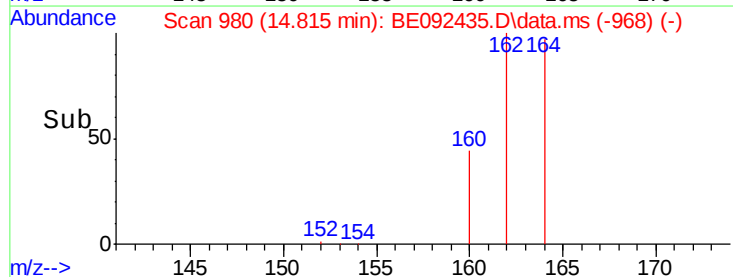
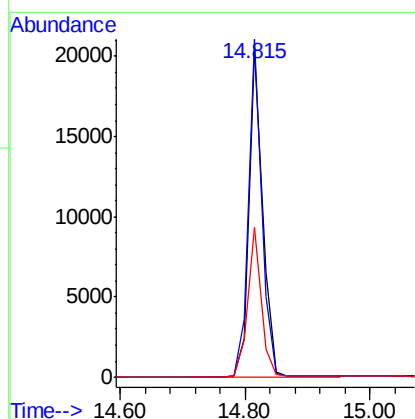
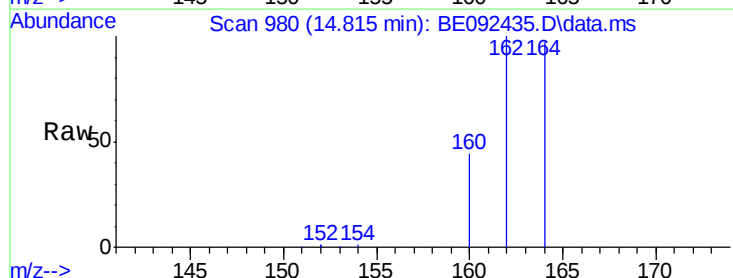
Instrument :
BNA_E
ClientSampleId :

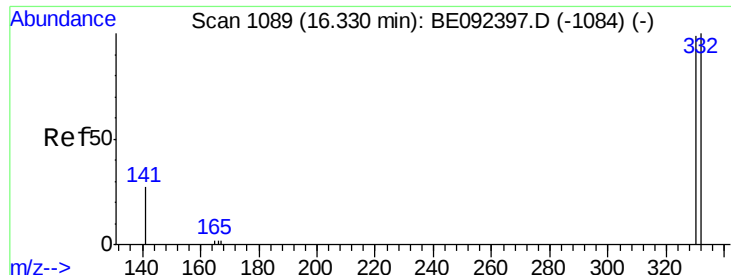
Tot Ion:142 Resp: 22835
Ion Ratio Lower Upper
142 100
141 86.4 73.7 110.5
115 33.5 34.0 51.0#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.815 min Scan# 980
Delta R.T. 0.000 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

Tgt Ion:164 Resp: 30281
Ion Ratio Lower Upper
164 100
162 103.3 71.4 107.0
160 45.7 27.4 41.2#

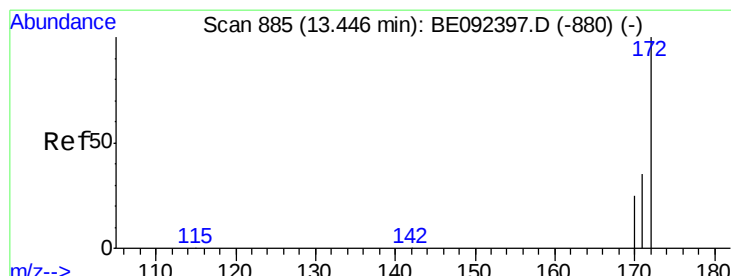
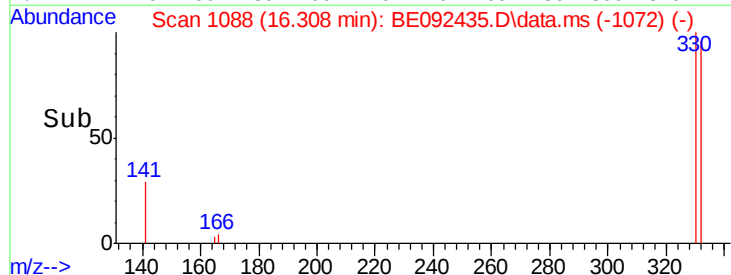
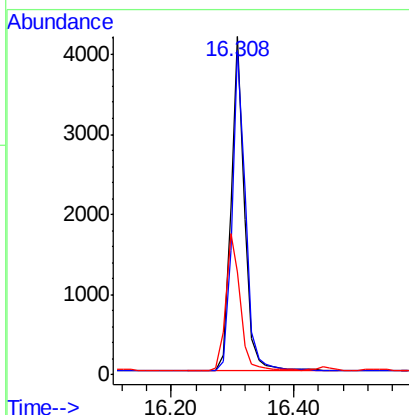
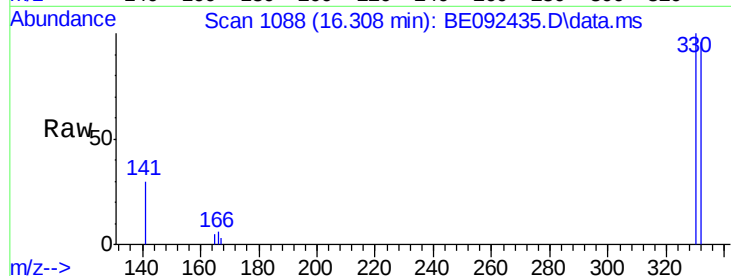




#13
 2,4,6-Tribromophenol
 Concen: 5.95 ng
 RT: 16.308 min Scan# 1089
 Delta R.T. -0.010 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

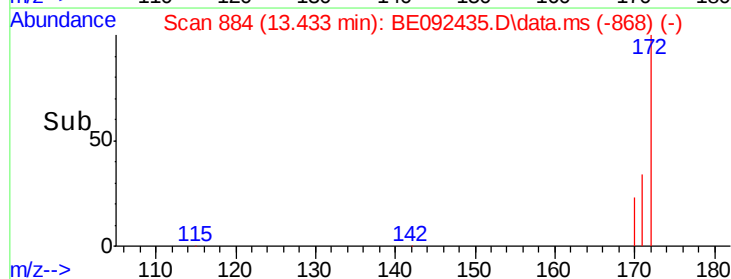
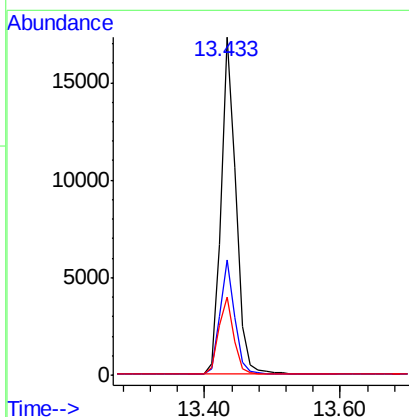
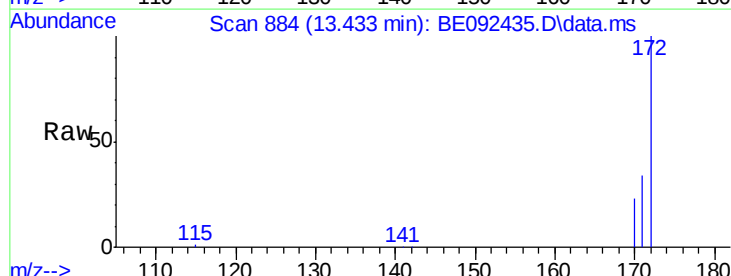
Instrument :
 BNA_E
 ClientSampleId :

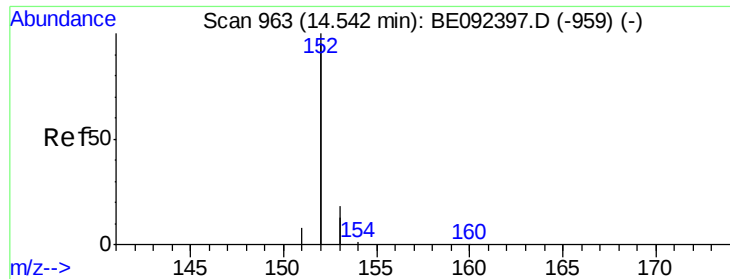
Tot Ion:330 Resp: 6346
 Ion Ratio Lower Upper
 330 100
 332 96.7 75.4 113.0
 141 43.0 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 3.75 ng
 RT: 13.433 min Scan# 884
 Delta R.T. -0.012 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

Tgt Ion:172 Resp: 26897
 Ion Ratio Lower Upper
 172 100
 171 34.2 30.1 45.1
 170 23.1 21.8 32.6





#15

Acenaphthylene

Concen: 3.44 ng

RT: 14.526 min Scan# 96

Delta R.T. 0.000 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

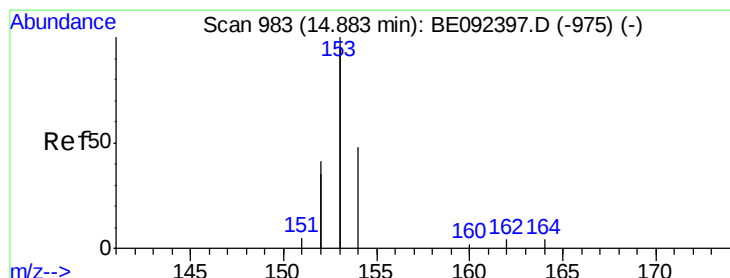
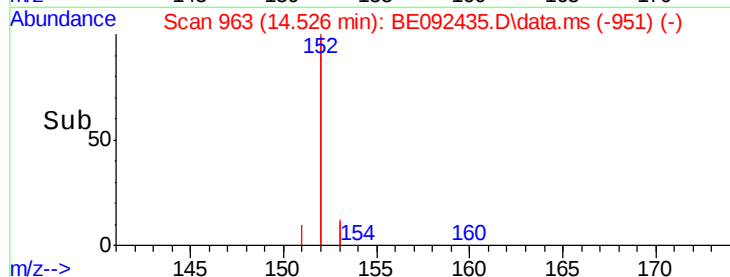
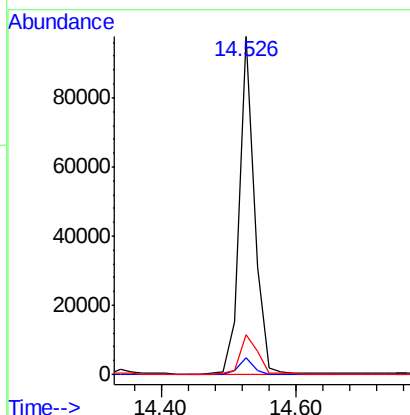
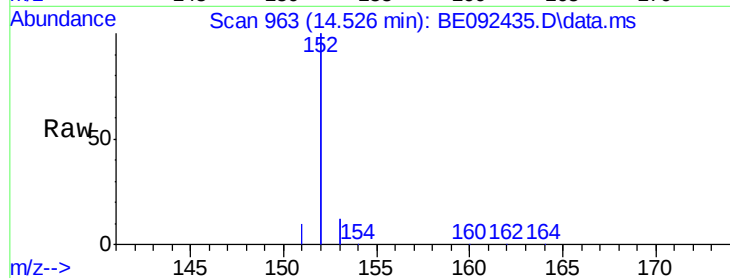
Tot Ion:152 Resp: 150902

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.0 10.4 15.6



#16

Acenaphthene

Concen: 3.29 ng

RT: 14.883 min Scan# 984

Delta R.T. 0.000 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

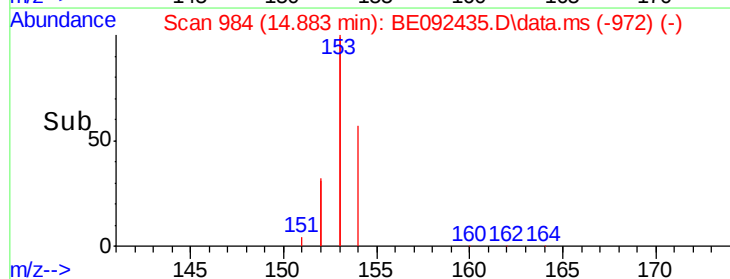
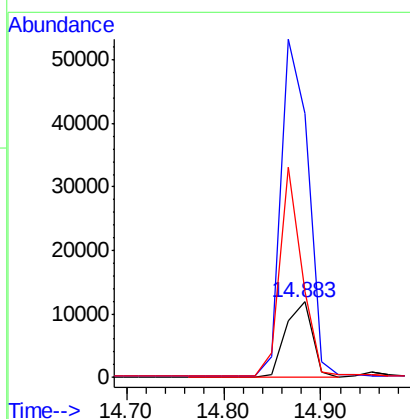
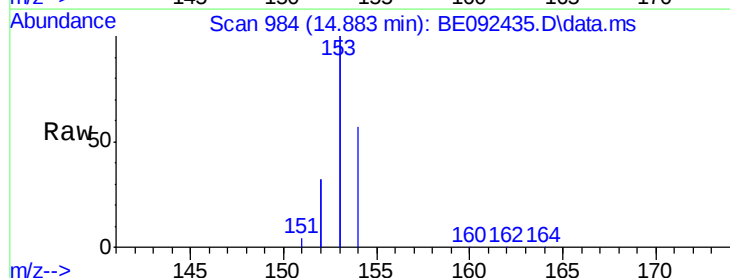
Tgt Ion:154 Resp: 22580

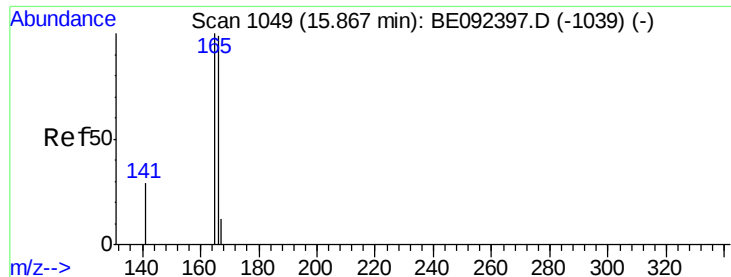
Ion Ratio Lower Upper

154 100

153 455.3 350.8 526.2

152 230.1 171.1 256.7

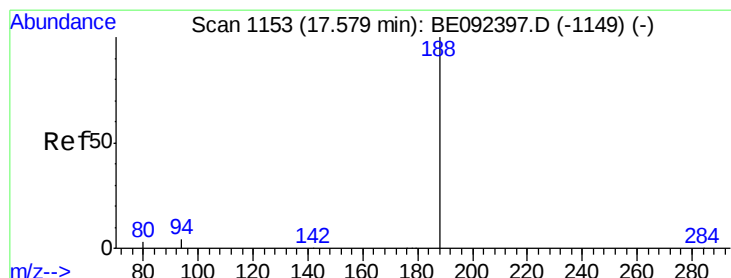
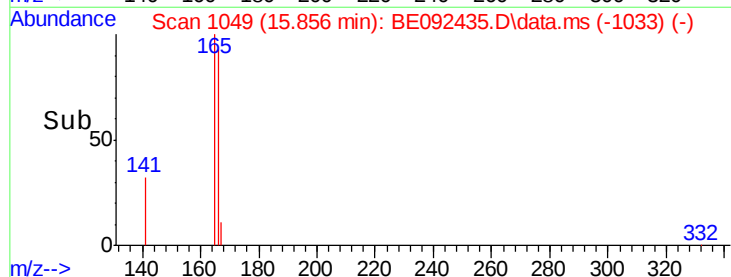
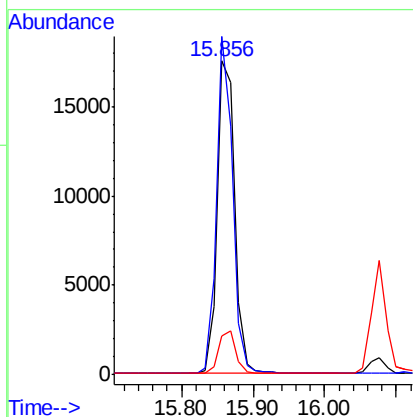
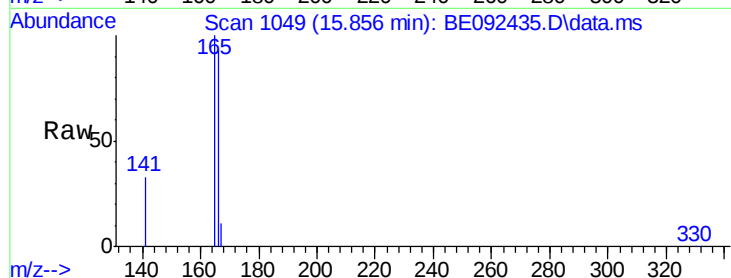




#17
 Fluorene
 Concen: 3.43 ng
 RT: 15.856 min Scan# 1049
 Delta R.T. -0.011 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

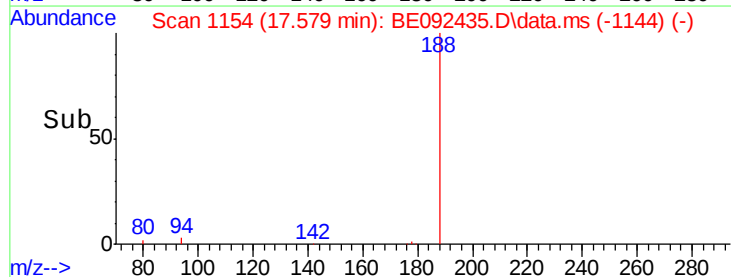
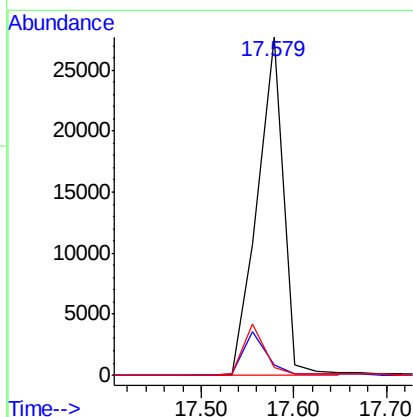
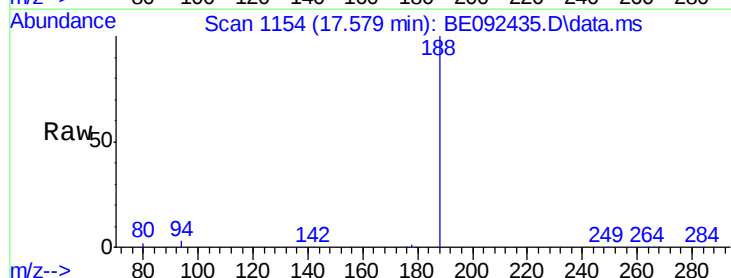
Instrument :
 BNA_E
 ClientSampleId :

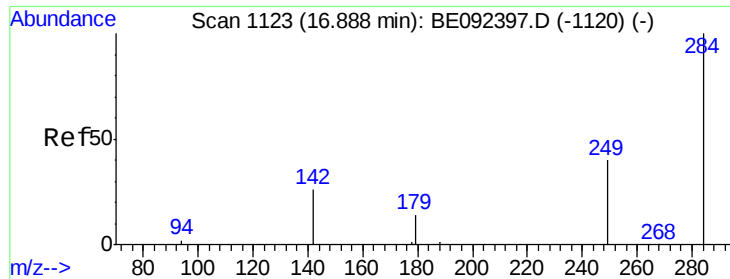
Tot Ion:166 Resp: 29830
 Ion Ratio Lower Upper
 166 100
 165 98.4 78.2 117.4
 167 13.4 11.0 16.4



#18
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.579 min Scan# 1154
 Delta R.T. 0.022 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

Tgt Ion:188 Resp: 54694
 Ion Ratio Lower Upper
 188 100
 94 2.9 3.2 4.8#
 80 2.4 2.6 3.8#





#19

Hexachlorobenzene

Concen: 3.77 ng

RT: 16.887 min Scan# 111

Delta R.T. -0.001 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

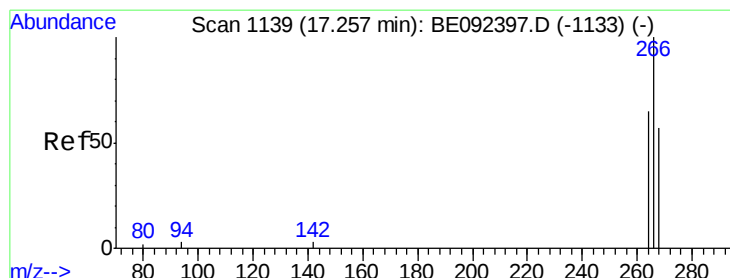
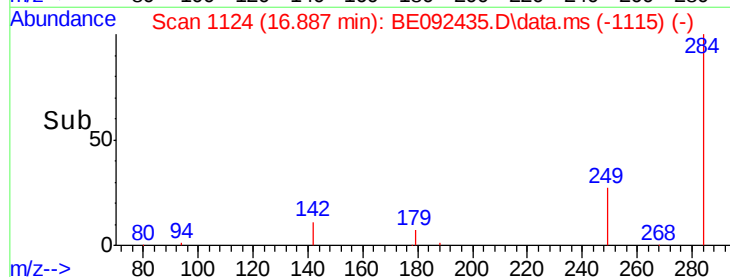
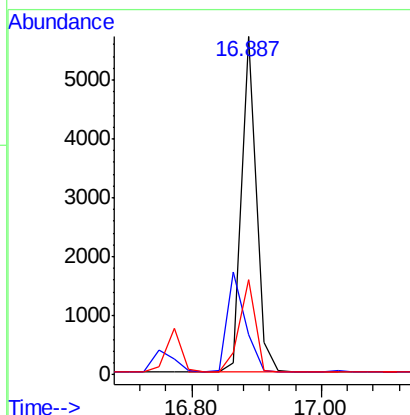
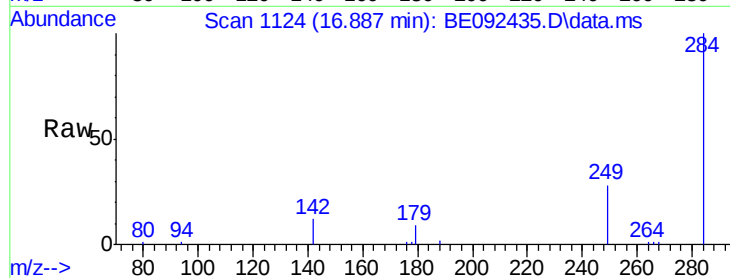
Tot Ion:284 Resp: 8820

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

249 30.2 27.9 41.9



#20

Pentachlorophenol

Concen: 8.44 ng

RT: 17.233 min Scan# 1139

Delta R.T. -0.024 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

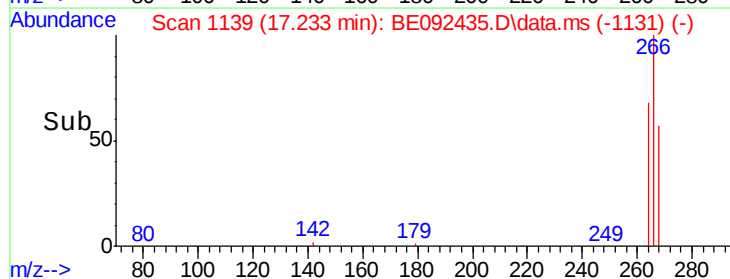
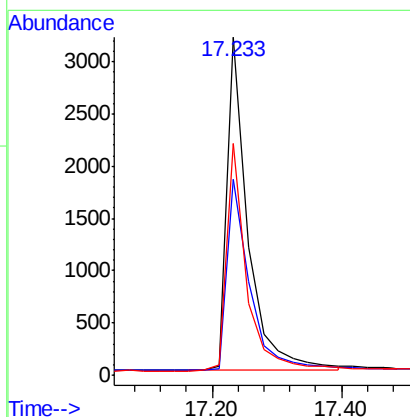
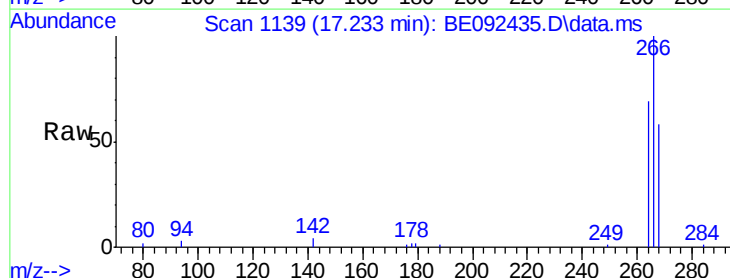
Tgt Ion:266 Resp: 7241

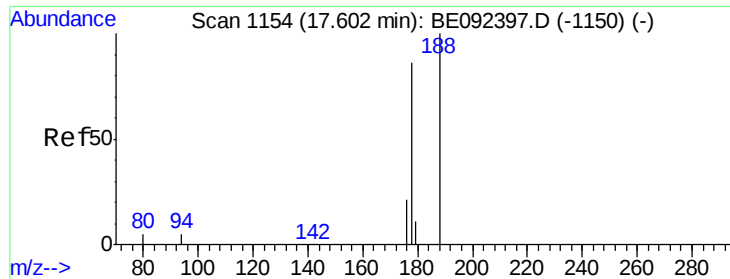
Ion Ratio Lower Upper

266 100

268 57.9 62.5 93.7#

264 68.6 57.2 85.8





#21

Phenanthrene

Concen: 3.82 ng

RT: 17.602 min Scan# 1154

Delta R.T. -0.000 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

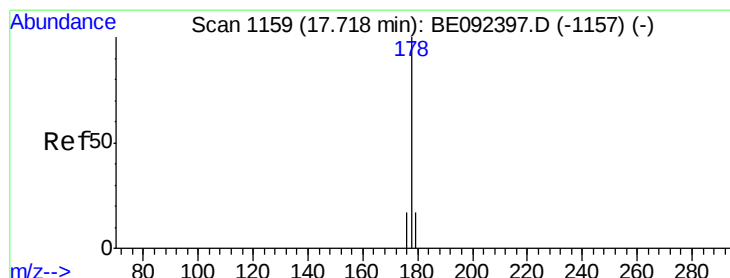
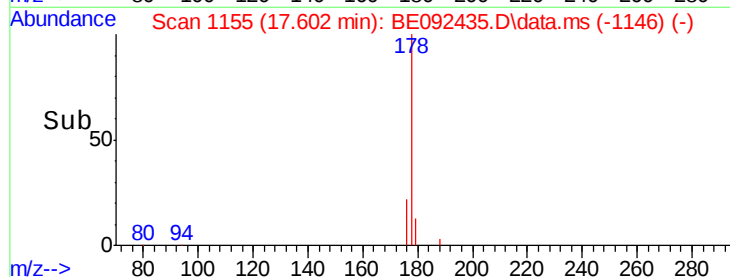
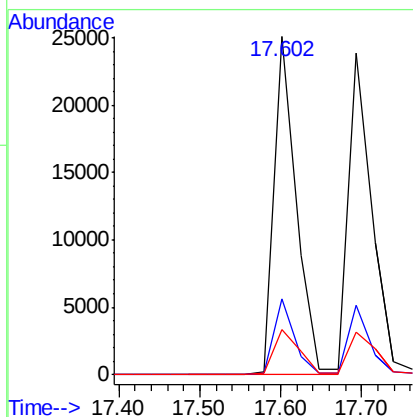
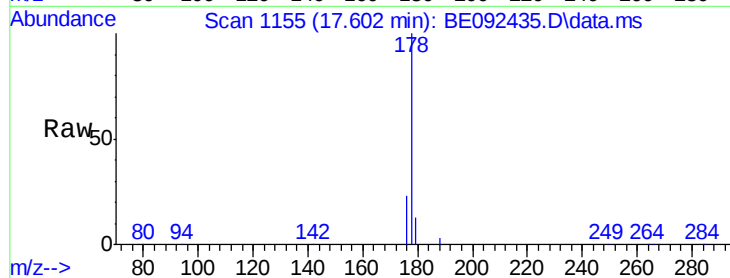
Tot Ion:178 Resp: 47982

Ion Ratio Lower Upper

178 100

176 20.2 15.8 23.8

179 14.8 16.0 24.0#



#22

Anthracene

Concen: 3.97 ng

RT: 17.694 min Scan# 1159

Delta R.T. -0.001 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

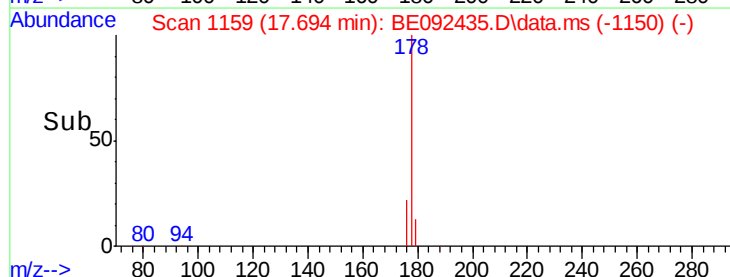
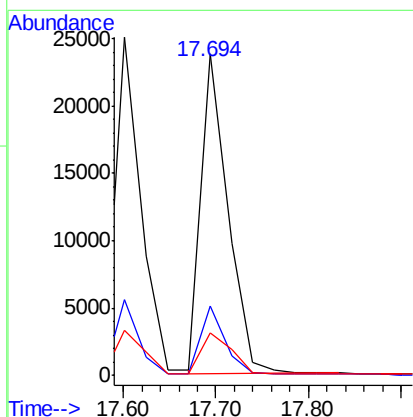
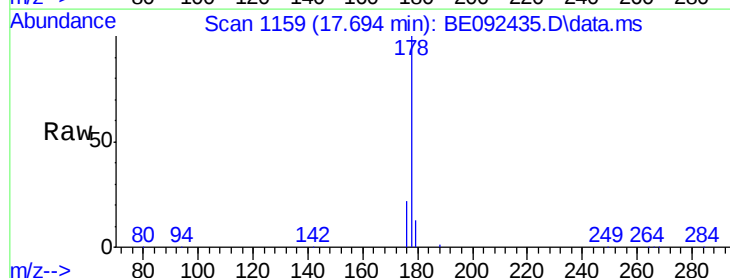
Tgt Ion:178 Resp: 47974

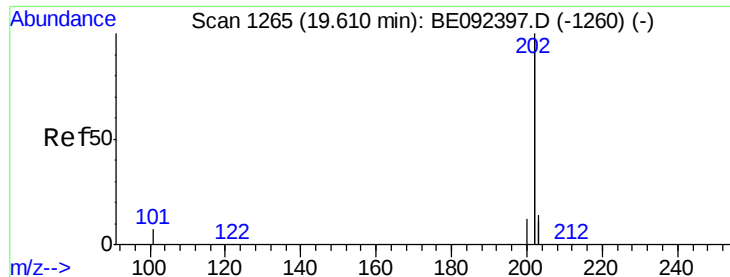
Ion Ratio Lower Upper

178 100

176 19.7 15.0 22.4

179 14.8 12.2 18.2

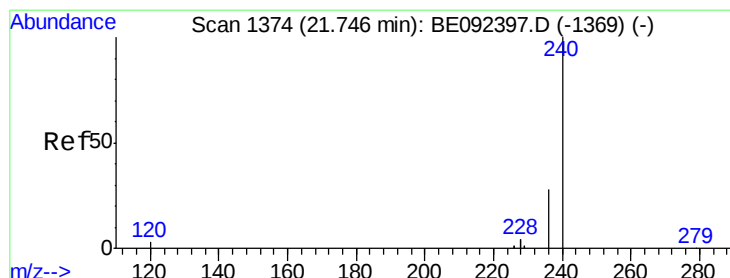
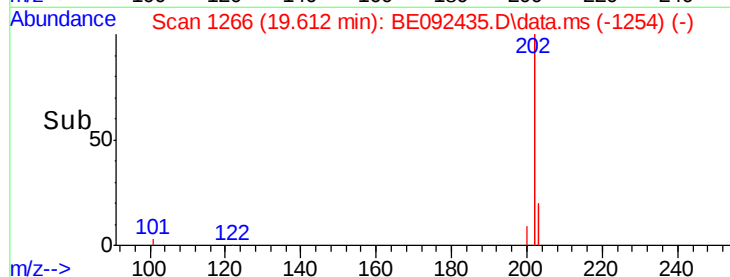
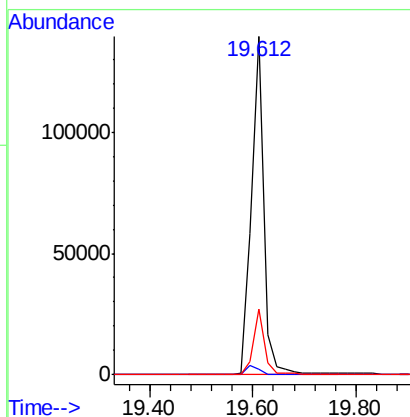
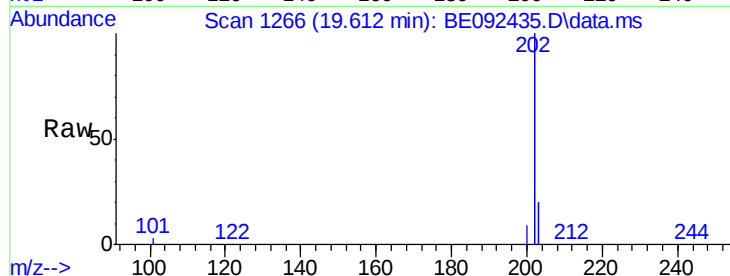




#23
 Fluoranthene
 Concen: 3.81 ng
 RT: 19.612 min Scan# 1265
 Delta R.T. 0.001 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

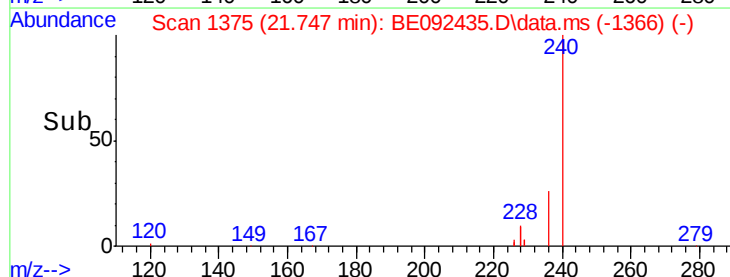
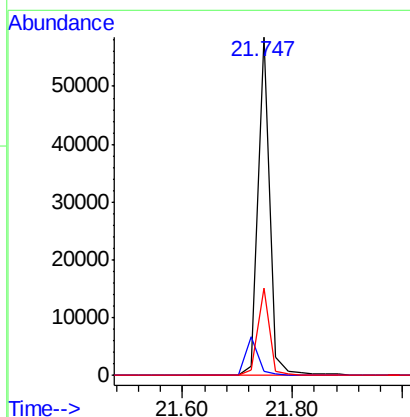
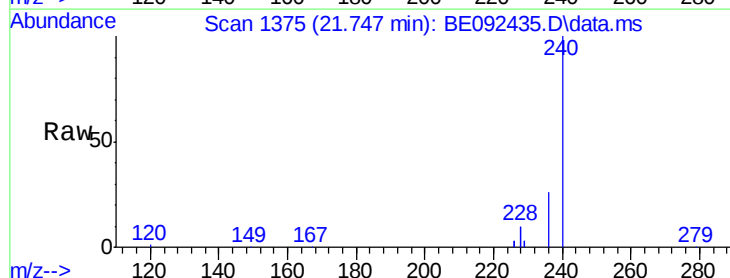
Instrument :
 BNA_E
 ClientSampleId :

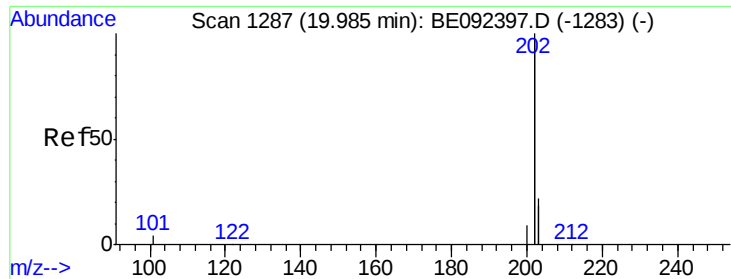
Tot Ion	Ratio	Lower	Upper
202	100		
101	2.8	2.2	3.4
203	17.6	13.7	20.5



#24
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.747 min Scan# 1375
 Delta R.T. 0.001 min
 Lab File: BE092435.D
 Acq: 30 Sep 2016 14:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	1.3	2.6	4.0#
236	26.0	24.6	37.0

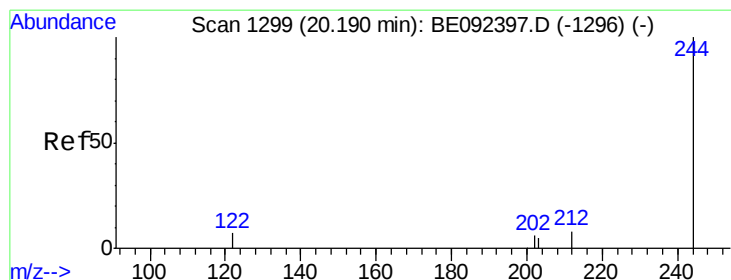
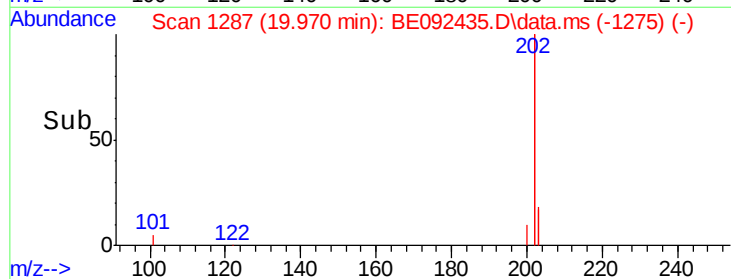
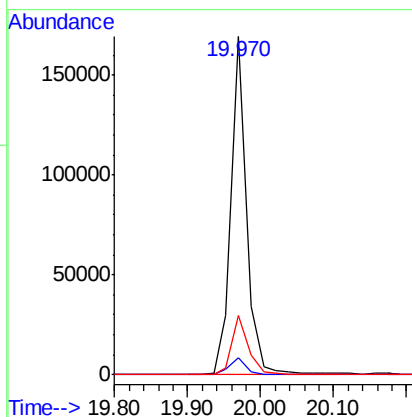
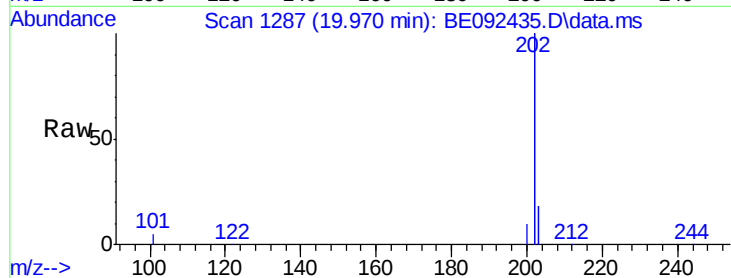




#25
Pvrene
Concen: 3.22 ng
RT: 19.970 min Scan# 1287
Delta R.T. 0.001 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

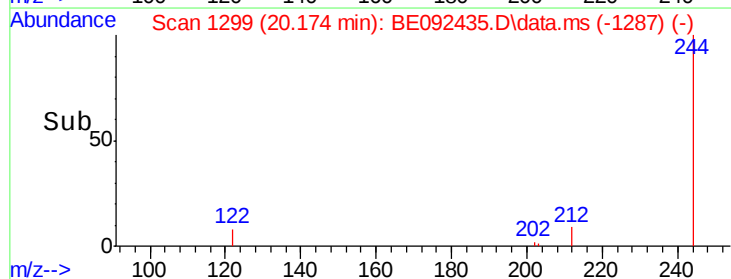
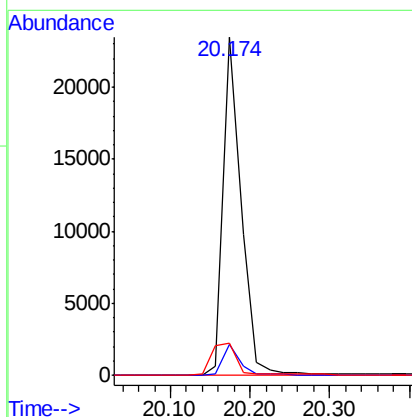
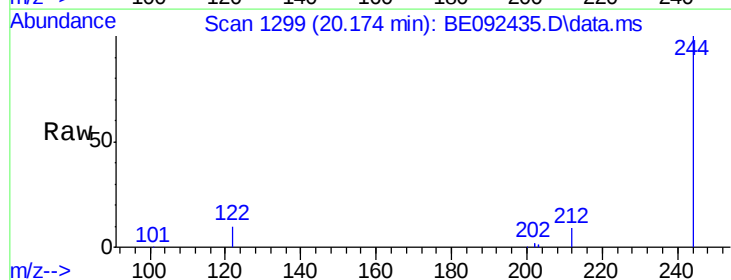
Instrument :
BNA_E
ClientSampleId :

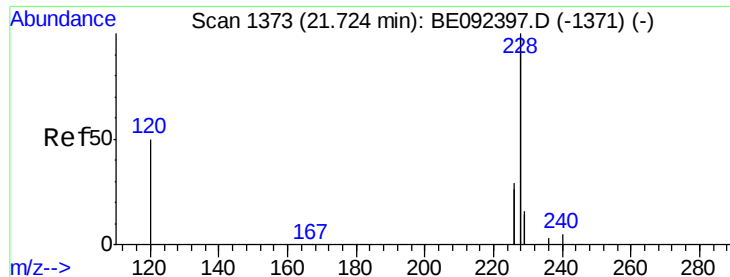
Tot Ion	Ratio	Lower	Upper
202	100		
200	5.1	4.2	6.4
203	18.4	13.9	20.9



#26
Terphenyl-d14
Concen: 3.31 ng
RT: 20.174 min Scan# 1299
Delta R.T. 0.001 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	6.7	10.1
122	9.5	3.6	5.4

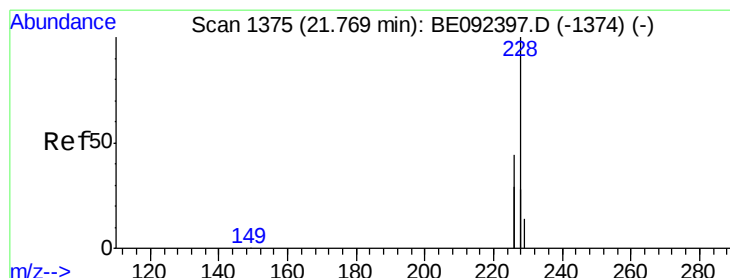
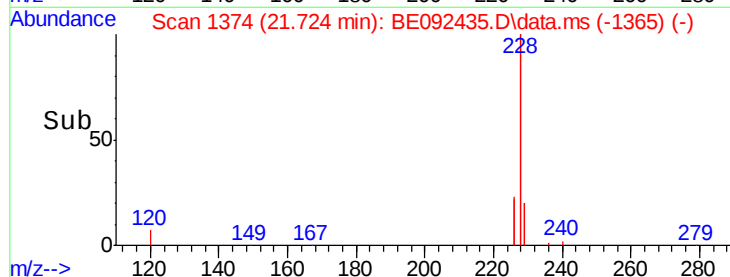
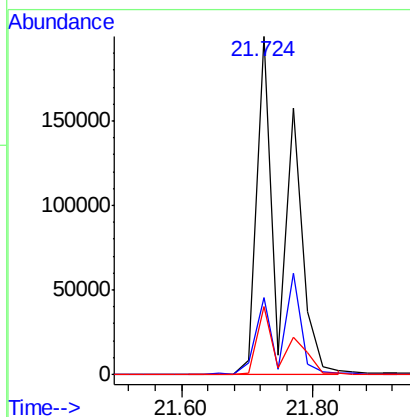
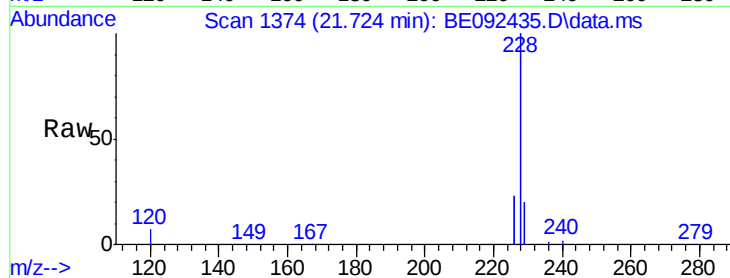




#27
Benzo(a)anthracene
Concen: 6.66 ng
RT: 21.724 min Scan# 1373
Delta R.T. 0.001 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

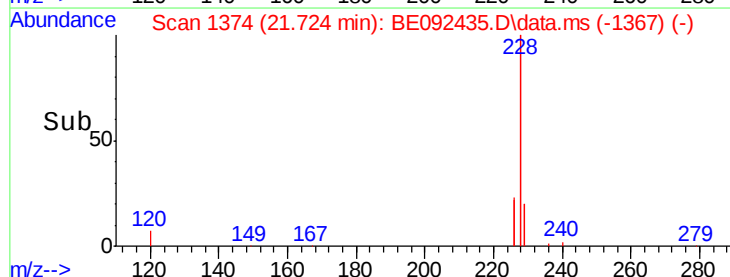
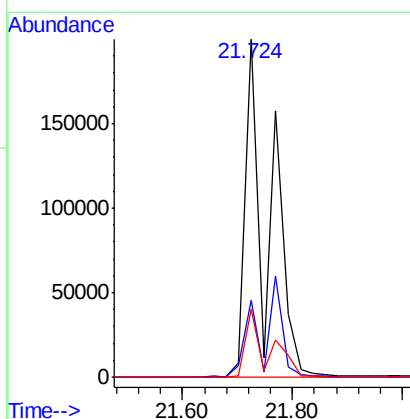
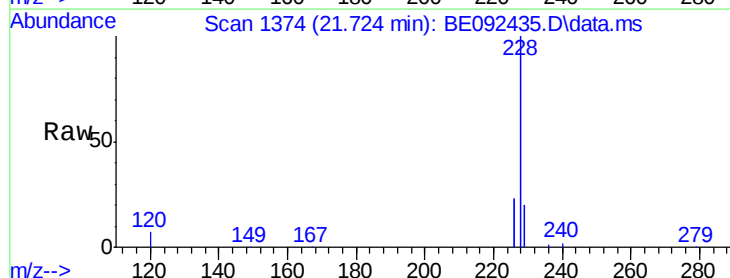
Instrument :
BNA_E
ClientSampleId :

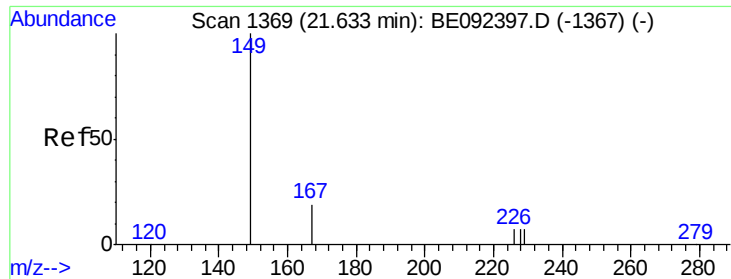
Tot Ion:228 Resp: 569932
Ion Ratio Lower Upper
228 100
226 22.6 23.6 35.4#
229 20.0 13.3 19.9#



#28
Chrysene
Concen: 7.31 ng
RT: 21.724 min Scan# 1374
Delta R.T. -0.044 min
Lab File: BE092435.D
Acq: 30 Sep 2016 14:35

Tgt Ion:228 Resp: 572934
Ion Ratio Lower Upper
228 100
226 22.6 36.3 54.5#
229 20.0 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 3.64 ng

RT: 21.634 min Scan# 1369

Delta R.T. 0.001 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

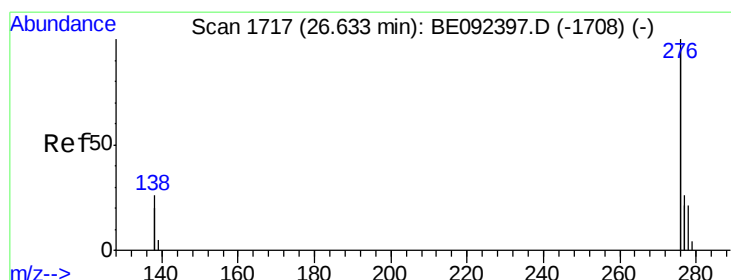
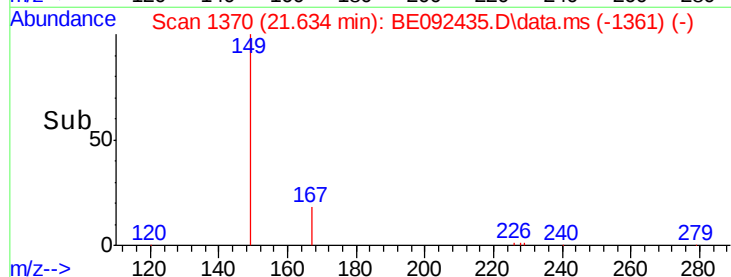
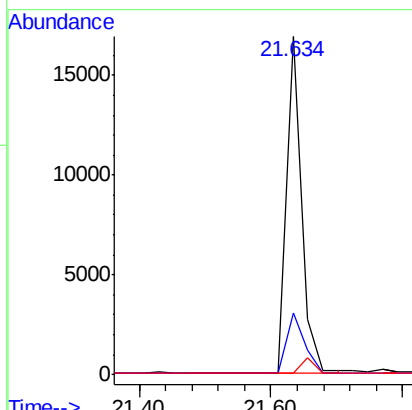
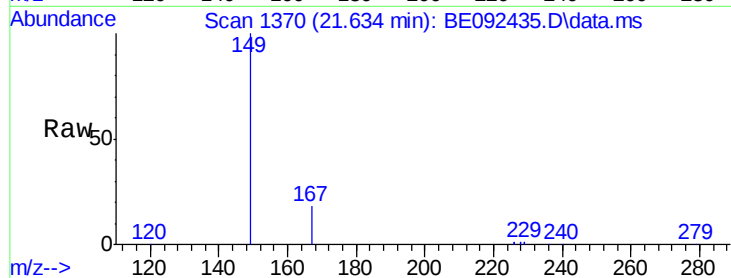
Tot Ion:149 Resp: 26849

Ion Ratio Lower Upper

149 100

167 21.9 16.0 24.0

279 0.0 16.0 24.0#



#30

Indeno(1,2,3-cd)pyrene

Concen: 3.82 ng

RT: 26.616 min Scan# 1717

Delta R.T. 0.035 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

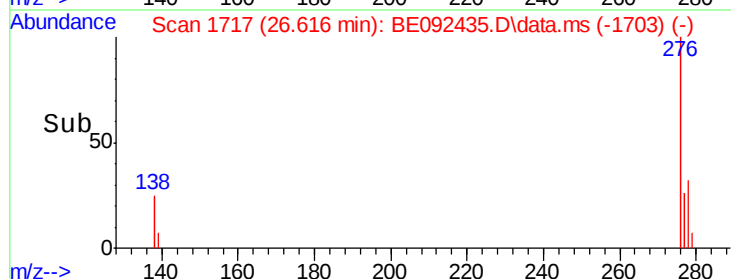
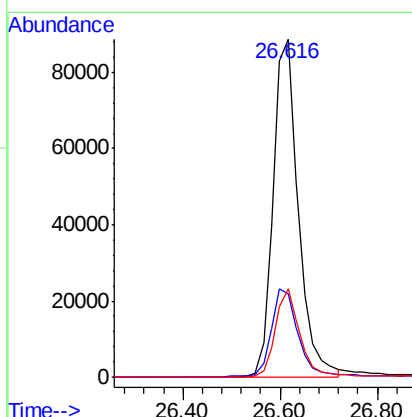
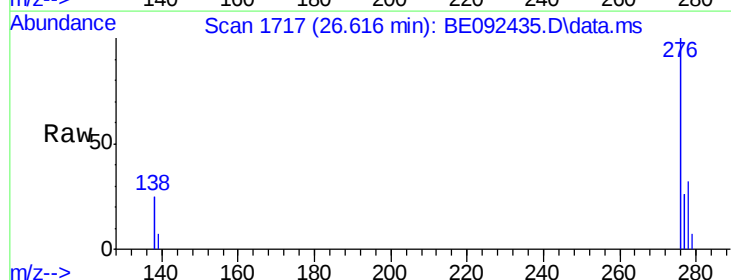
Tgt Ion:276 Resp: 318040

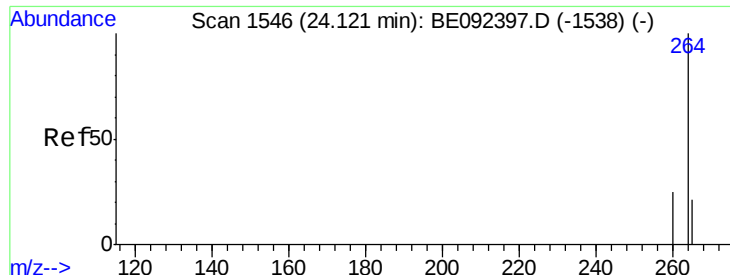
Ion Ratio Lower Upper

276 100

138 27.3 20.3 30.5

277 24.7 19.7 29.5





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.122 min Scan# 15

Delta R.T. 0.036 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

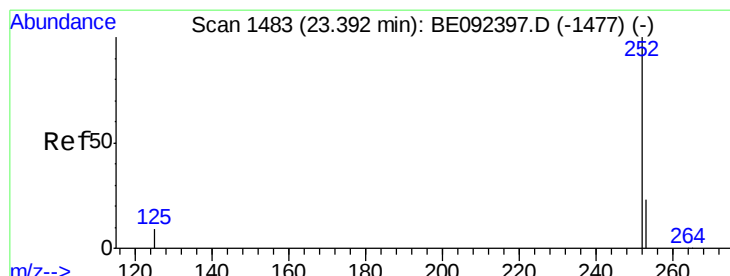
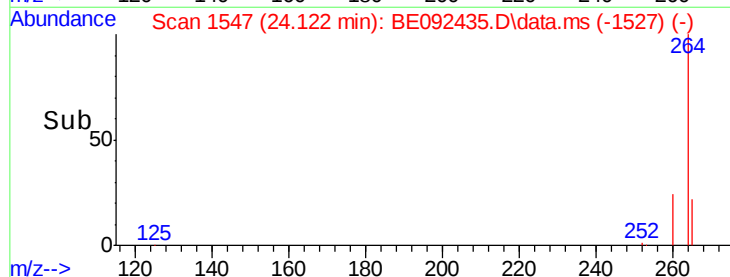
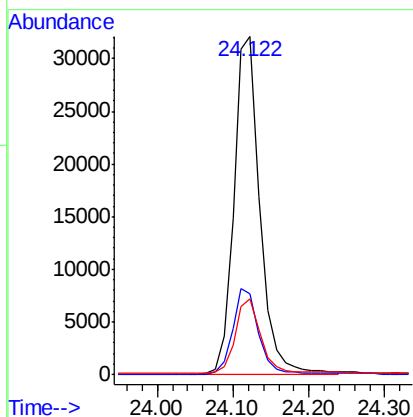
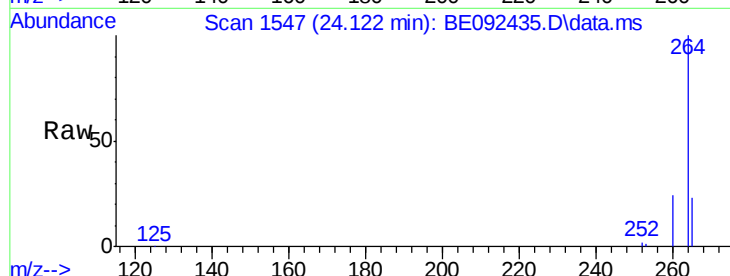
Tot Ion:264 Resp: 76694

Ion Ratio Lower Upper

264 100

260 24.0 20.1 30.1

265 22.5 17.9 26.9



#32

Benzo(b)fluoranthene

Concen: 3.89 ng

RT: 23.382 min Scan# 1483

Delta R.T. 0.024 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

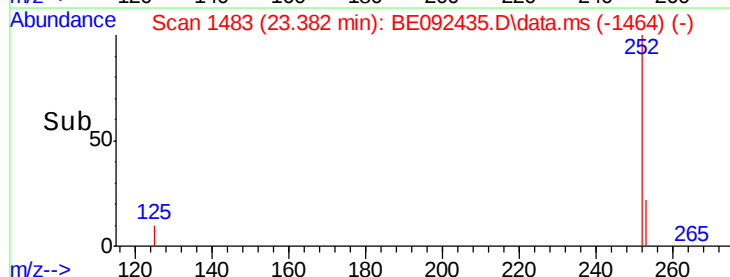
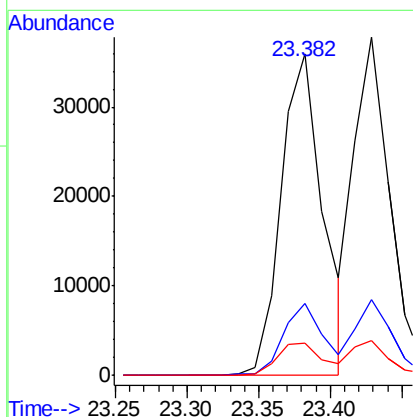
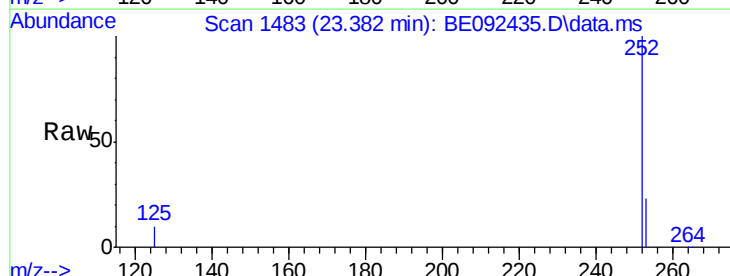
Tgt Ion:252 Resp: 72236

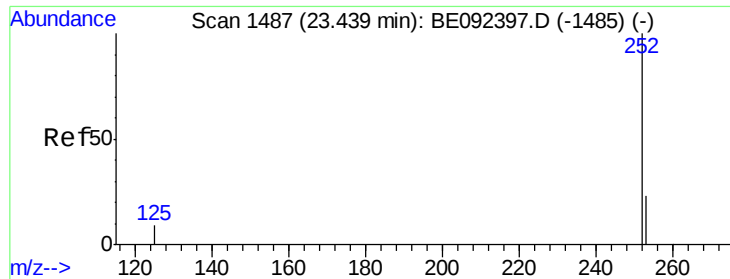
Ion Ratio Lower Upper

252 100

253 22.5 18.7 28.1

125 9.9 10.5 15.7#





#33

Benzo(k)fluoranthene

Concen: 3.48 ng

RT: 23.428 min Scan# 14

Delta R.T. 0.024 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

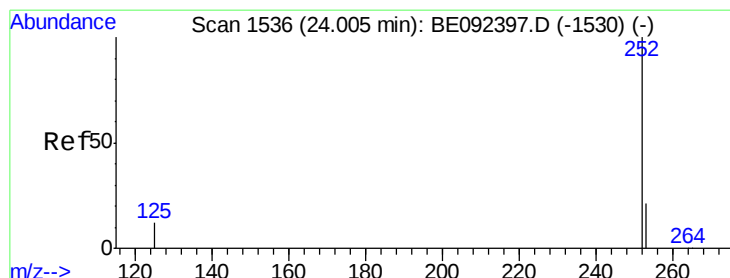
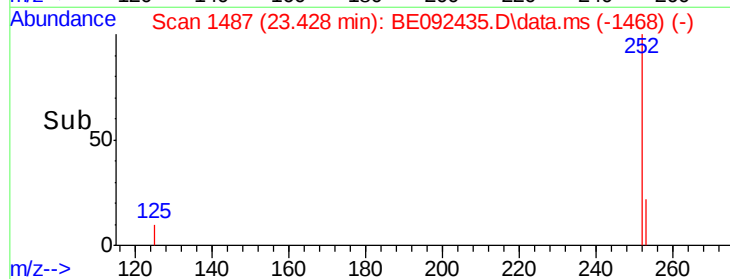
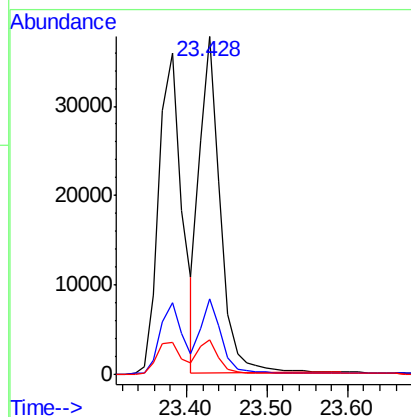
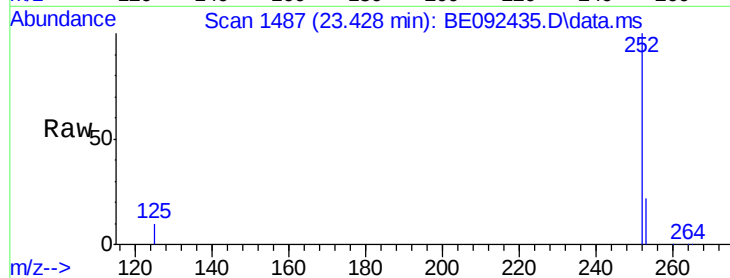
Tot Ion:252 Resp: 67744

Ion Ratio Lower Upper

252 100

253 22.3 20.3 30.5

125 10.1 9.6 14.4



#34

Benzo(a)pyrene

Concen: 3.78 ng

RT: 24.007 min Scan# 1537

Delta R.T. 0.024 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

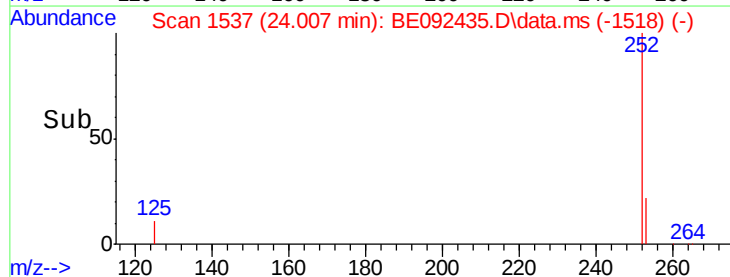
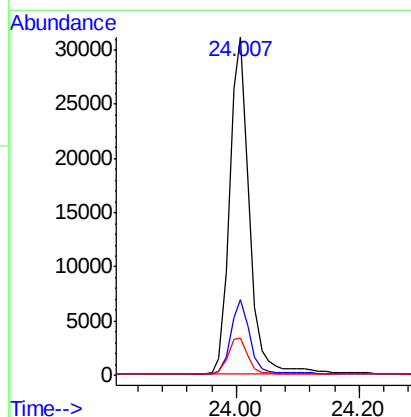
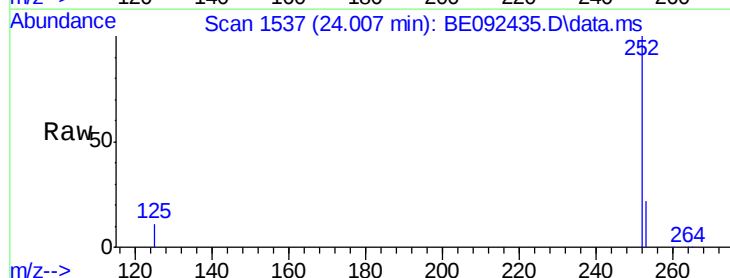
Tgt Ion:252 Resp: 68847

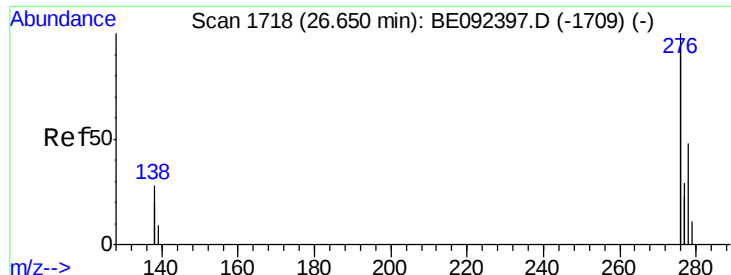
Ion Ratio Lower Upper

252 100

253 22.4 19.0 28.6

125 11.1 11.8 17.8#





#35

Dibenzo(a,h)anthracene

Concen: 3.94 ng

RT: 26.634 min Scan# 1718

Delta R.T. 0.035 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Instrument :

BNA_E

ClientSampleId :

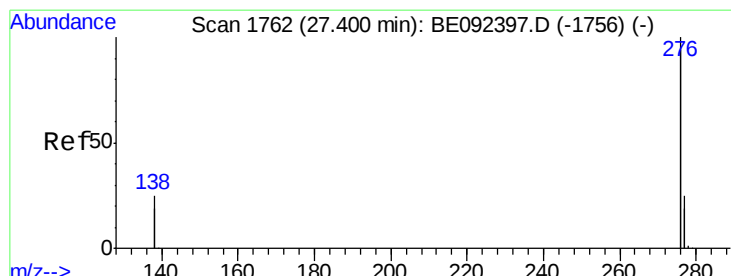
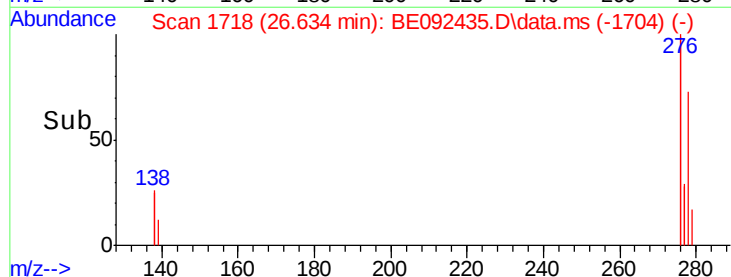
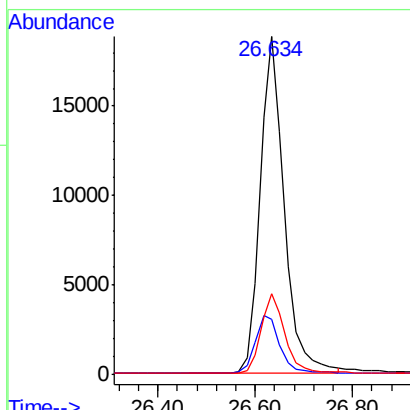
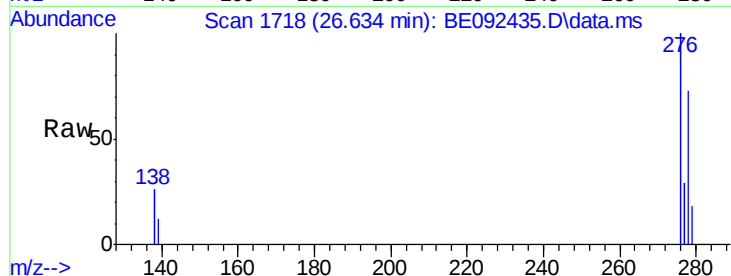
Tot Ion:278 Resp: 65698

Ion Ratio Lower Upper

278 100

139 16.2 13.8 20.8

279 23.9 21.4 32.2



#36

Benzo(g,h,i)perylene

Concen: 3.81 ng

RT: 27.383 min Scan# 1762

Delta R.T. 0.035 min

Lab File: BE092435.D

Acq: 30 Sep 2016 14:35

Tgt Ion:276 Resp: 273012

Ion Ratio Lower Upper

276 100

277 23.9 19.8 29.8

138 22.2 19.8 29.6

