

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050619\
 Data File : BE099554.D
 Acq On : 6 May 2019 17:14
 Operator : JU/SJ
 Sample : K2587-20DL2 40X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

Quant Time: May 07 08:11:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 07 08:07:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	1968	0.40	ng	0.02
7) Naphthalene-d8	10.65	136	7256	0.40	ng	0.03
13) Acenaphthene-d10	14.51	164	5245	0.40	ng	0.01
19) Phenanthrene-d10	17.26	188	15145	0.40	ng	0.01
27) Chrysene-d12	21.44	240	21479	0.40	ng	0.00
34) Perylene-d12	23.99	264	25283	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	72	0.01	ng	0.02
5) Phenol-d6	7.01	99	108	0.01	ng	0.03
8) Nitrobenzene-d5	9.00	82	58	0.01	ng	0.03
11) 2-Methylnaphthalene-d10	12.25	152	116	0.01	ng	0.01
14) 2,4,6-Tribromophenol	16.00	330	53	0.02	ng	0.01
15) 2-Fluorobiphenyl	13.13	172	163	0.01	ng	0.01
25) Fluoranthene-d10	19.29	212	1727	0.01	ng	0.01
29) Terphenyl-d14	19.88	244	621	0.02	ng	0.00

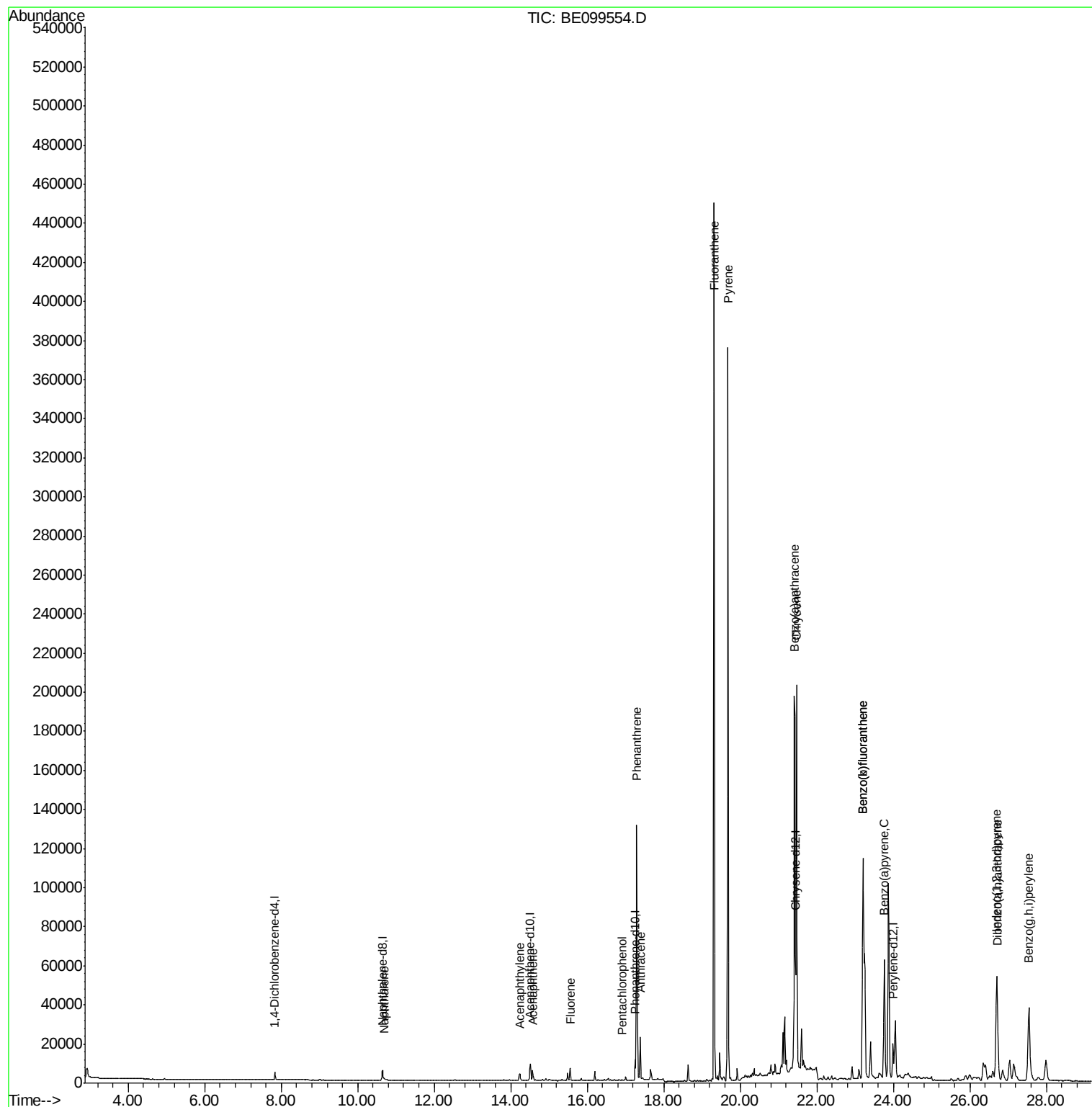
Target Compounds				Qvalue		
9) Naphthalene	10.69	128	1732	0.022 ng	#	87
16) Acenaphthylene	14.23	152	5393	0.210 ng		97
17) Acenaphthene	14.57	154	2517	0.172 ng		100
18) Fluorene	15.56	166	5618	0.260 ng		99
22) Pentachlorophenol	16.92	266	15	0.219 ng	#	54
23) Phenanthrene	17.30	178	133388	3.413 ng		100
24) Anthracene	17.39	178	25944	0.697 ng		98
26) Fluoranthene	19.32	202	410408	7.011 ng		100
28) Pyrene	19.68	202	347282	6.203 ng	#	95
30) Benzo(a)anthracene	21.41	228	199943	2.922 ng		96
31) Chrysene	21.47	228	164959	2.463 ng		98
32) Bis(2-ethylhexyl)phthalate	21.33	149	2699	Below Cal	#	92
33) Indeno(1,2,3-cd)pyrene	26.70	276	110077	1.391 ng	#	97
35) Benzo(b)fluoranthene	23.21	252	234729	3.220 ng	#	98
36) Benzo(k)fluoranthene	23.21	252	234729	3.339 ng		99
37) Benzo(a)pyrene	23.76	252	97688	1.417 ng		99
38) Dibenzo(a,h)anthracene	26.72	278	25025	0.355 ng		95
39) Benzo(g,h,i)perylene	27.54	276	100432	1.422 ng		99

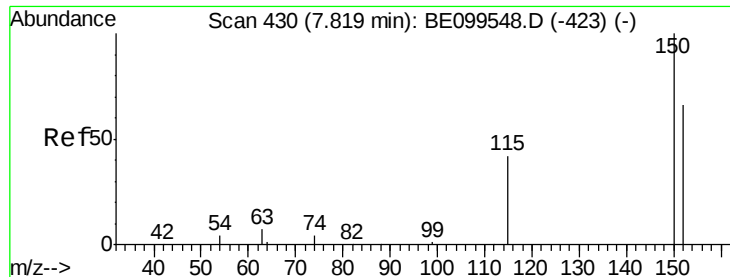
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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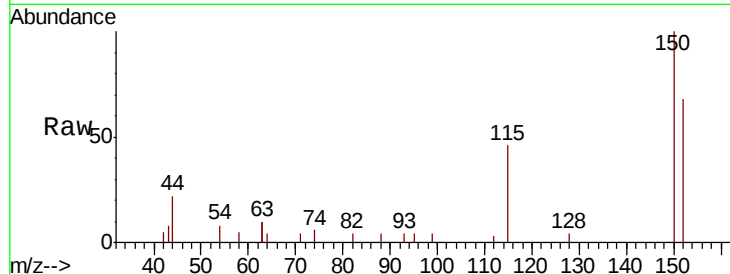




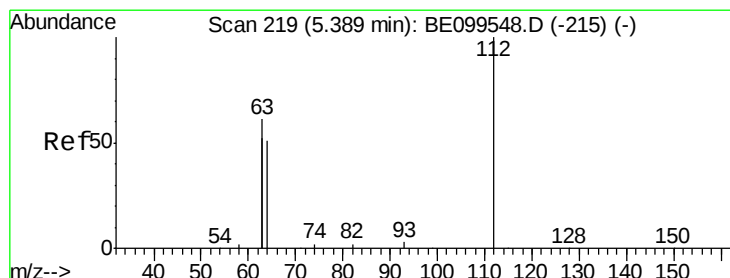
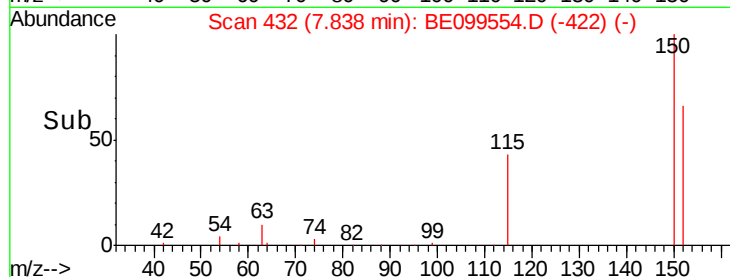
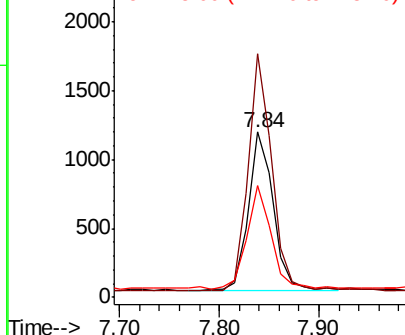
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.84 min Scan# 432
 Delta R.T. 0.02 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

Tgt Ion:152 Resp: 1968
 Ion Ratio Lower Upper
 152 100
 150 147.4 104.8 157.2
 115 67.4 46.6 69.8

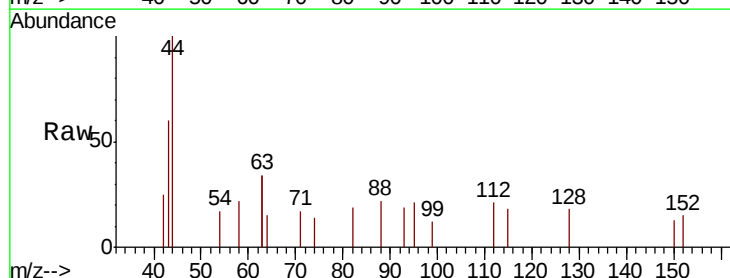


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

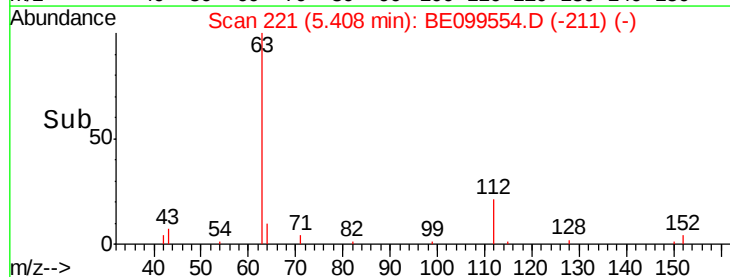
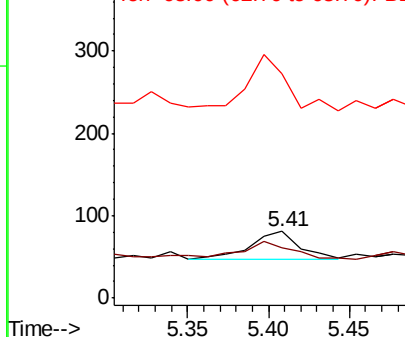


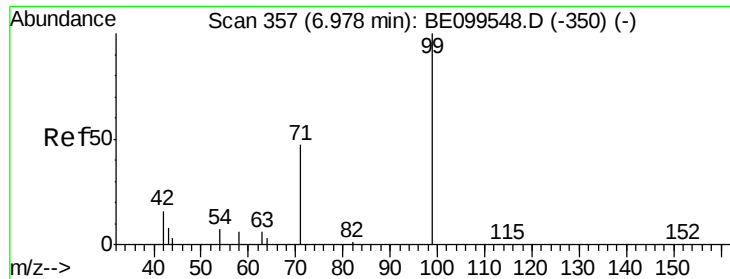
#4
 2-Fluorophenol
 Concen: 0.013 ng
 RT: 5.41 min Scan# 221
 Delta R.T. 0.02 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion:112 Resp: 72
 Ion Ratio Lower Upper
 112 100
 64 75.0 47.4 71.0#
 63 159.7 104.3 156.5#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.015 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.03 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319DL

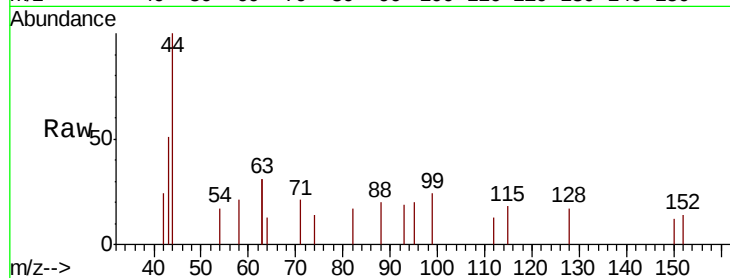
Tgt Ion: 99 Resp: 108

Ion Ratio Lower Upper

99 100

42 56.5 14.9 22.3#

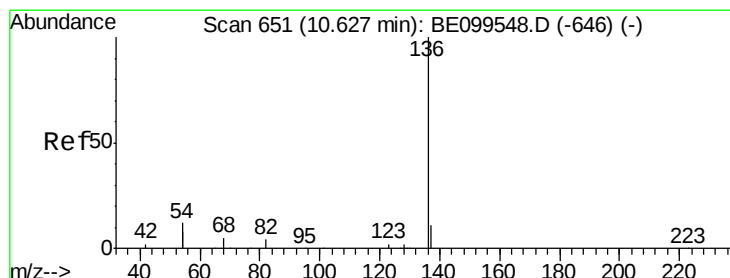
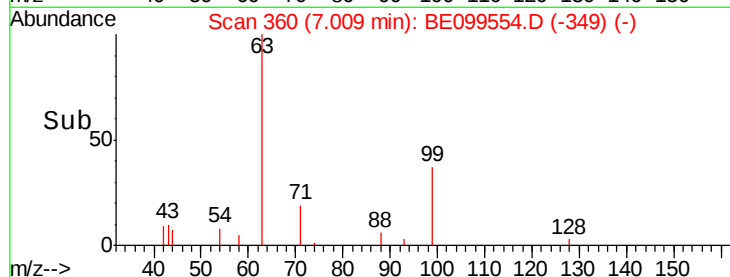
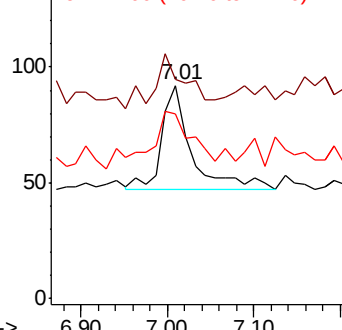
71 80.6 33.0 49.6#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. 0.03 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Tgt Ion: 136 Resp: 7256

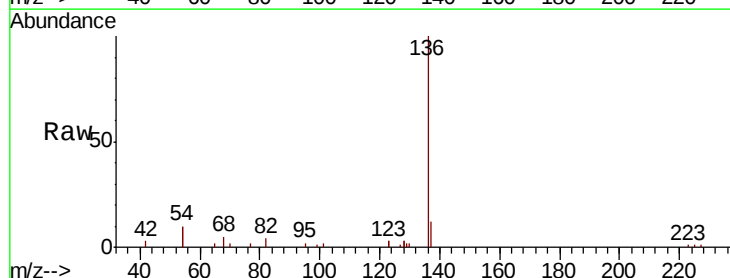
Ion Ratio Lower Upper

136 100

137 12.0 9.8 14.8

54 19.6 18.5 27.7

68 5.3 4.7 7.1

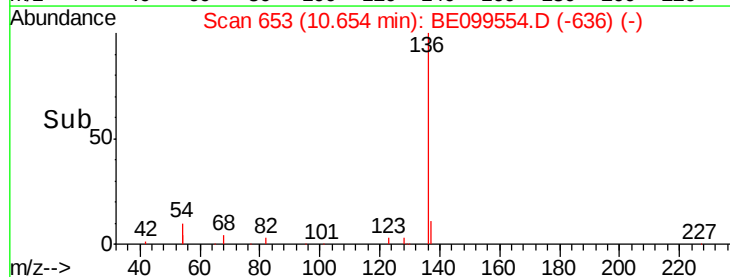
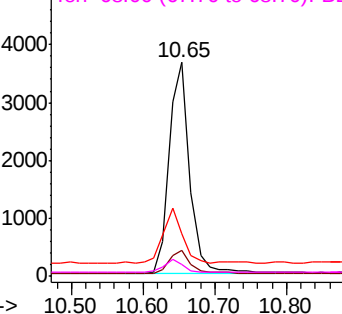


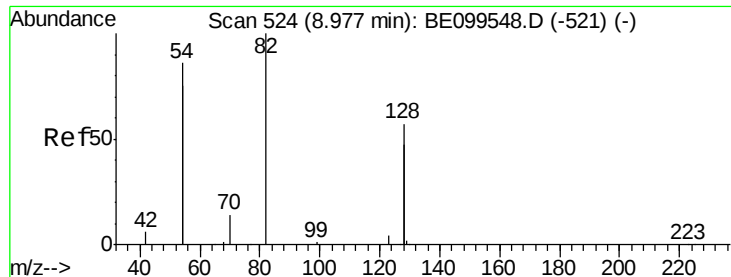
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.009 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.03 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Instrument :

BNA_E

ClientSampleId :

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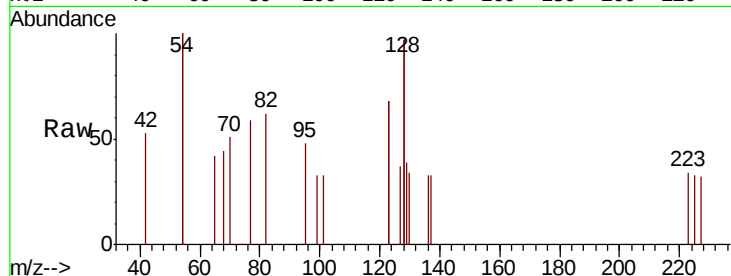
Tgt Ion: 82 Resp: 58

Ion Ratio Lower Upper

82 100

128 312.1 107.0 160.4#

54 323.1 113.1 169.7#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

400

300

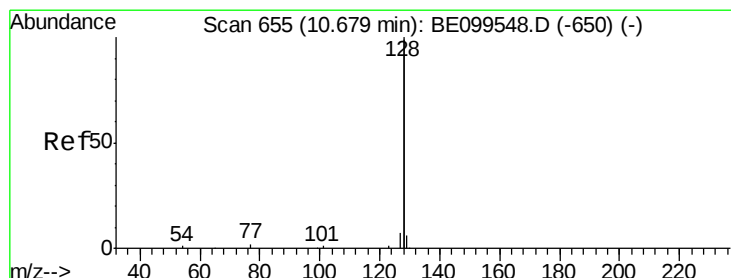
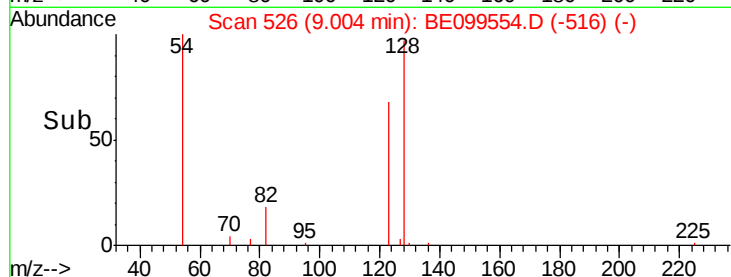
200

100

0

8.96 8.98 9.00 9.02 9.04

Time-->



#9

Naphthalene

Concen: 0.022 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.01 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

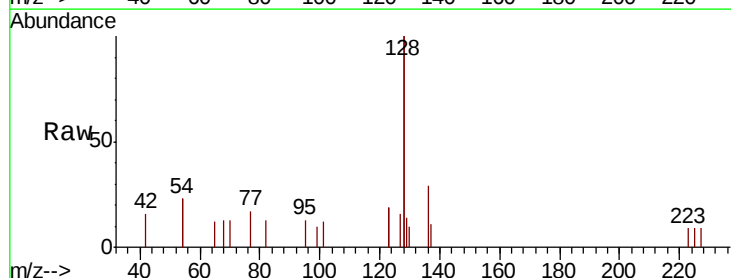
Tgt Ion: 128 Resp: 1732

Ion Ratio Lower Upper

128 100

129 7.1 2.4 3.6#

127 7.9 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

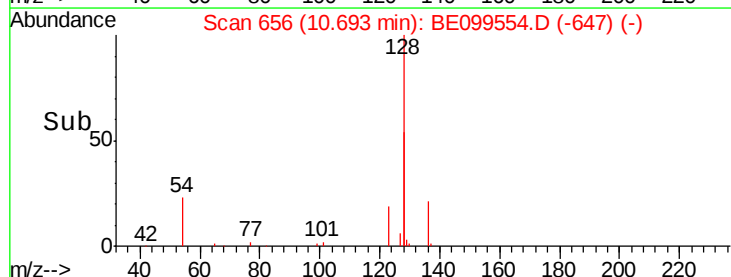
1000

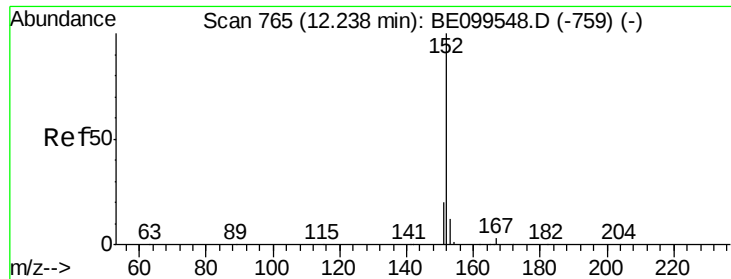
500

0

10.60 10.70 10.80

Time-->

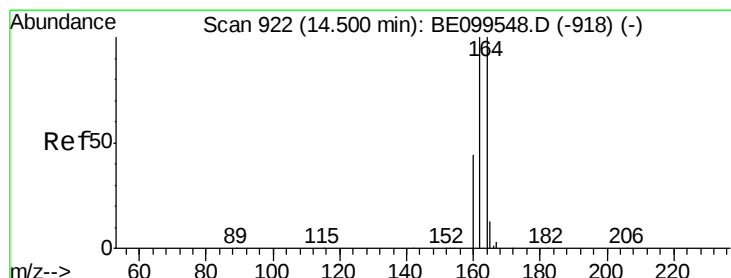
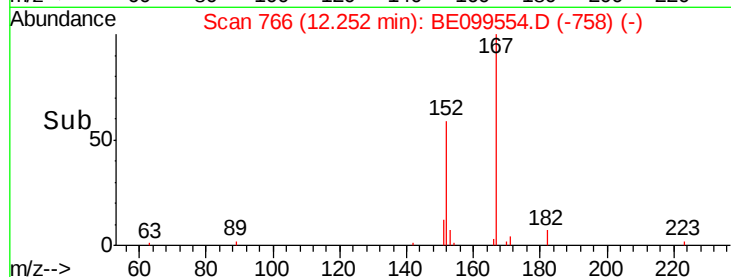
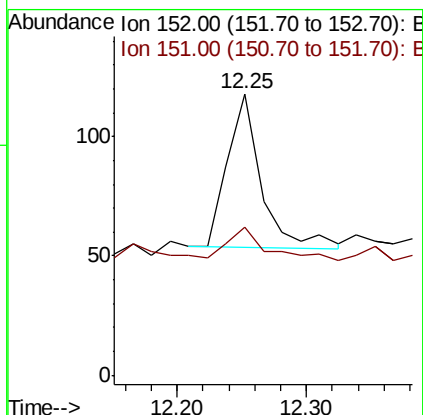
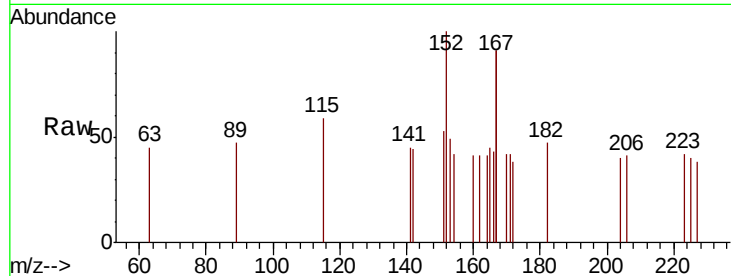




#11
 2-Methylnaphthalene-d10
 Concen: 0.009 ng
 RT: 12.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

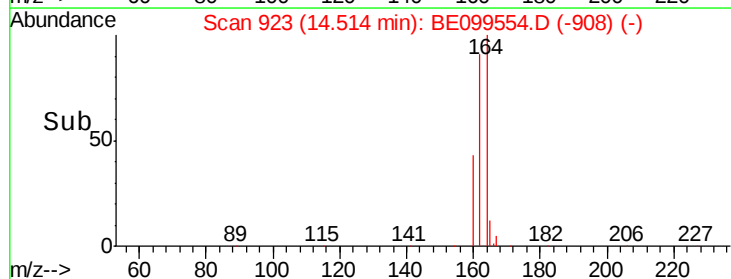
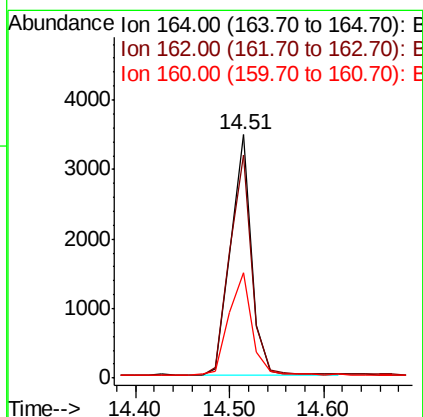
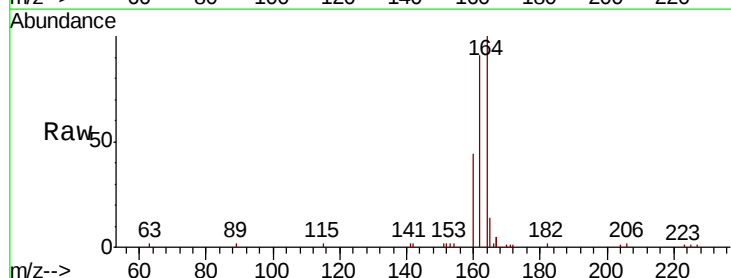
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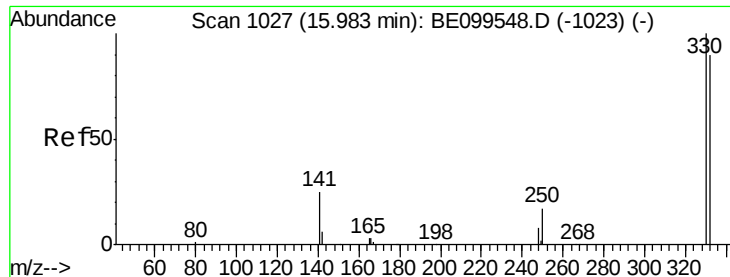
Tgt Ion:152 Resp: 116
 Ion Ratio Lower Upper
 152 100
 151 25.0 15.5 23.3#



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.51 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion:164 Resp: 5245
 Ion Ratio Lower Upper
 164 100
 162 91.5 79.0 118.4
 160 43.5 37.0 55.4

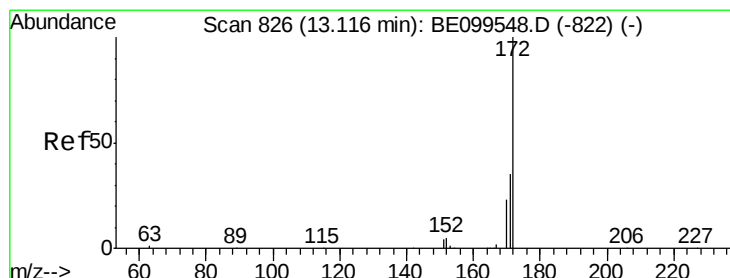
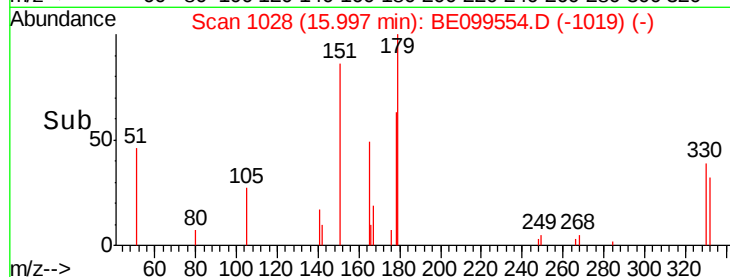
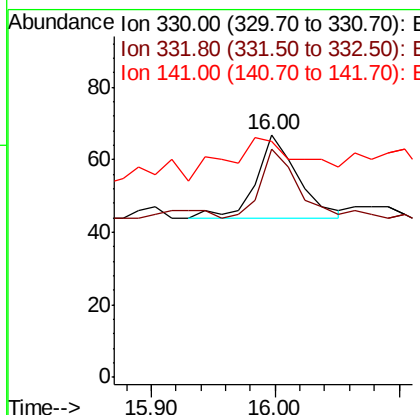
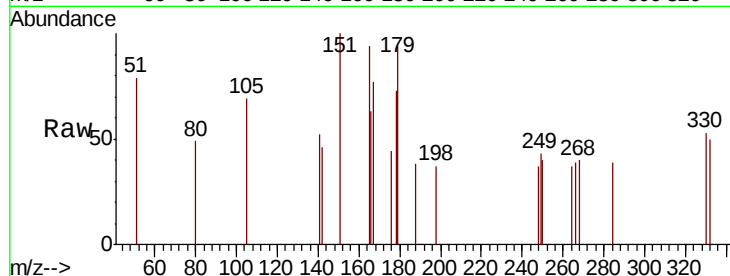




#14
 2,4,6-Tribromophenol
 Concen: 0.016 ng
 RT: 16.00 min Scan# 1028
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

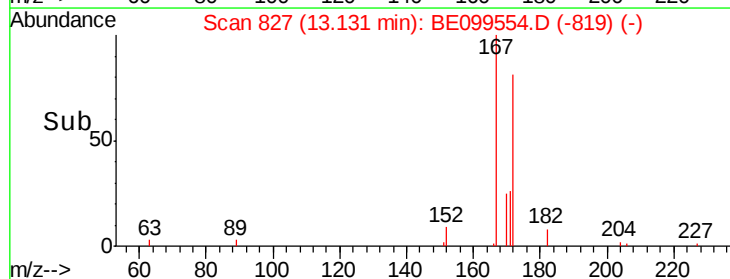
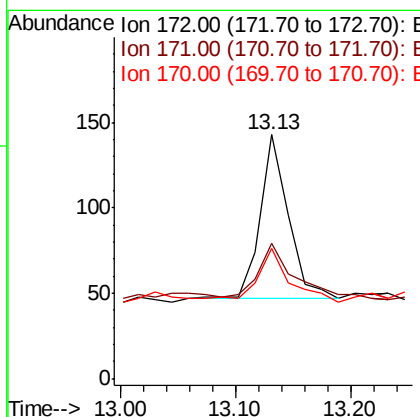
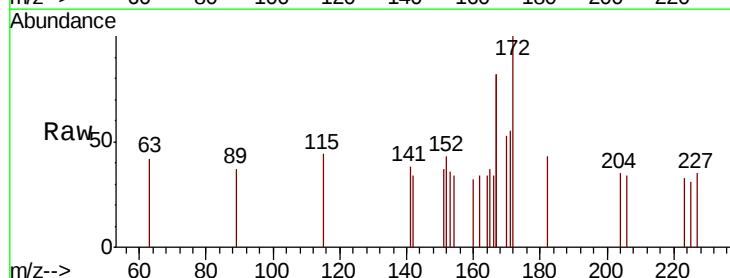
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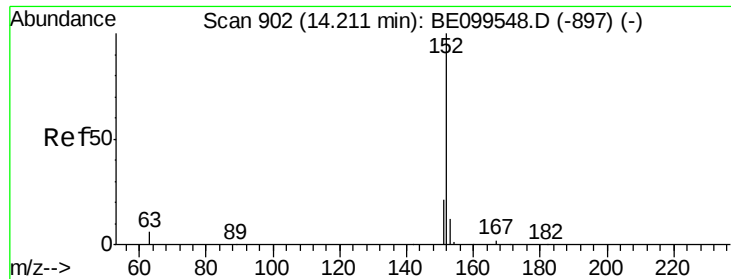
Tgt Ion: 330 Resp: 53
 Ion Ratio Lower Upper
 330 100
 332 77.4 71.5 107.3
 141 96.2 24.0 36.0#



#15
 2-Fluorobiphenyl
 Concen: 0.008 ng
 RT: 13.13 min Scan# 827
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion: 172 Resp: 163
 Ion Ratio Lower Upper
 172 100
 171 55.2 26.6 39.8#
 170 53.1 17.0 25.6#

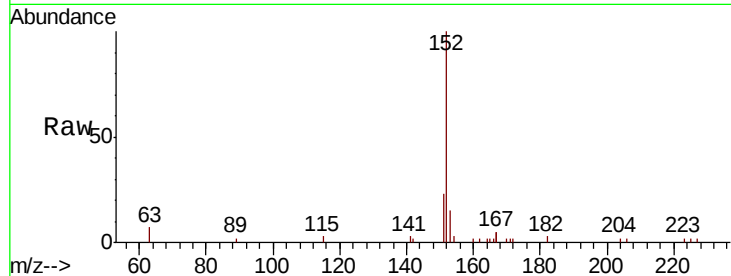




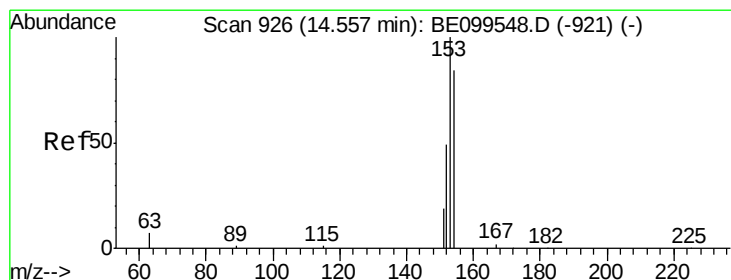
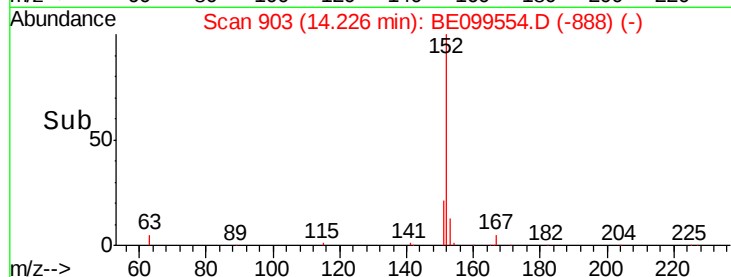
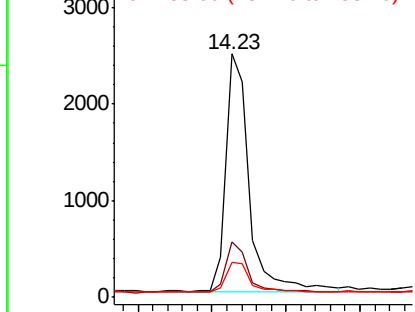
#16
Acenaphthylene
Concen: 0.210 ng
RT: 14.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tgt Ion:152 Resp: 5393
Ion Ratio Lower Upper
152 100
151 20.2 15.4 23.2
153 13.5 9.8 14.6

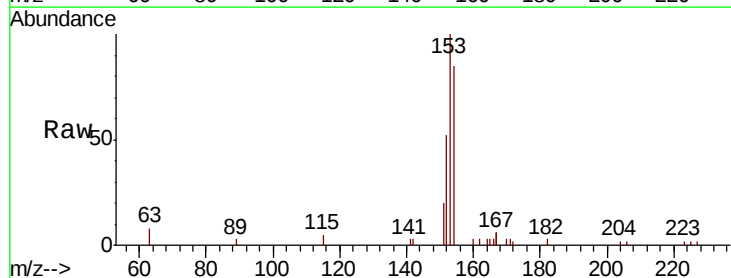


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

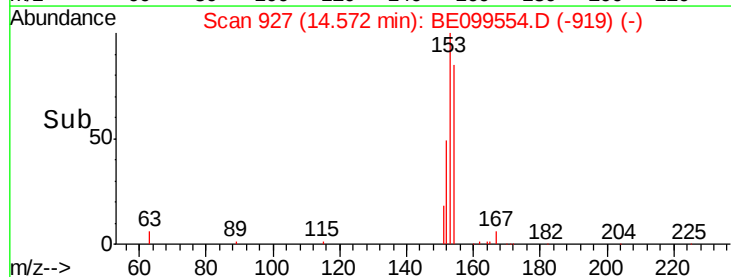
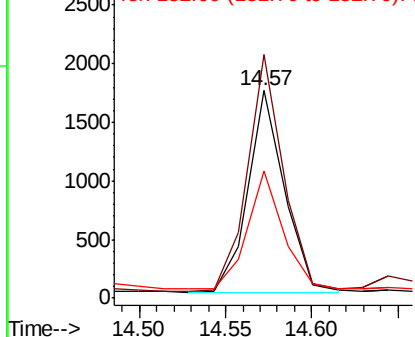


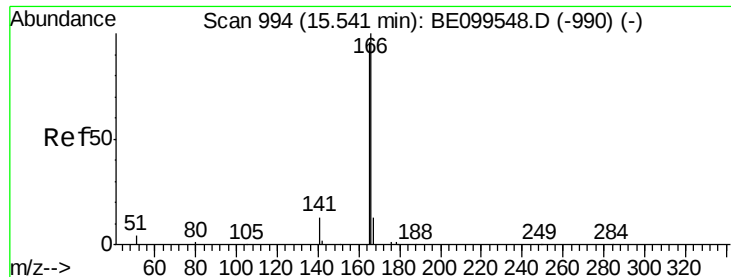
#17
Acenaphthene
Concen: 0.172 ng
RT: 14.57 min Scan# 927
Delta R.T. 0.01 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

Tgt Ion:154 Resp: 2517
Ion Ratio Lower Upper
154 100
153 116.4 92.6 138.8
152 57.3 45.8 68.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

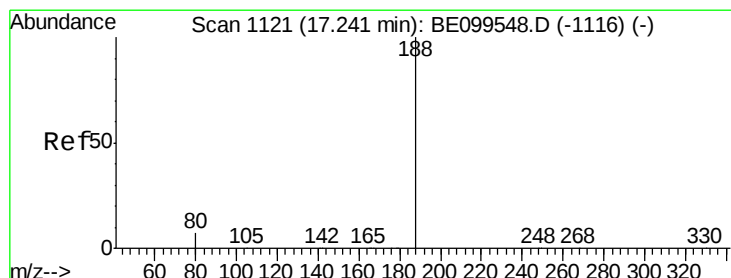
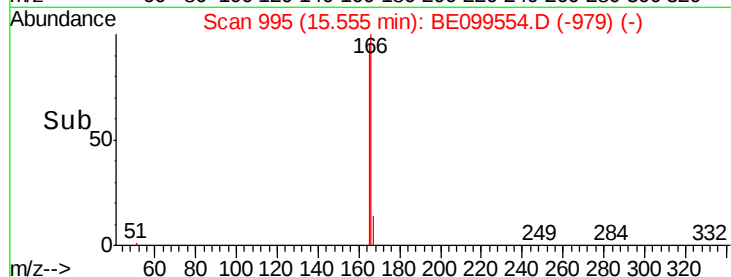
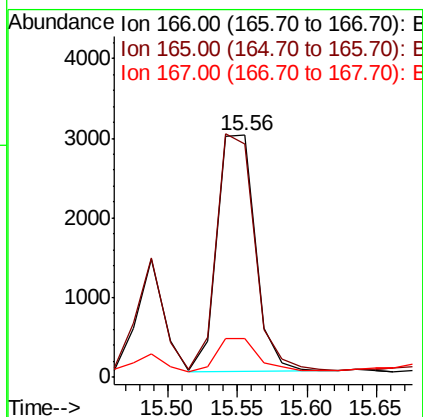
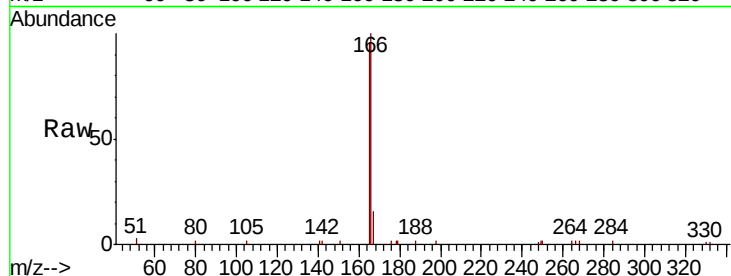




#18
Fluorene
 Concen: 0.260 ng
 RT: 15.56 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

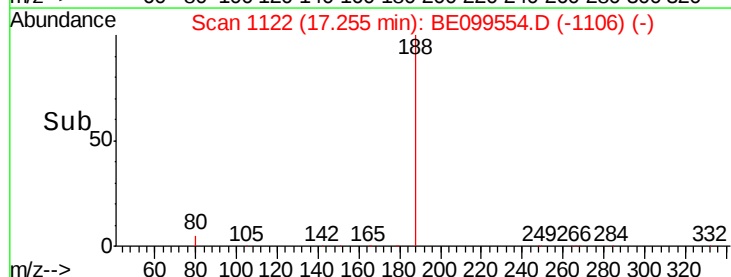
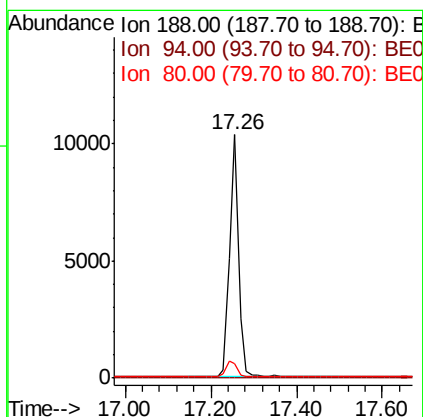
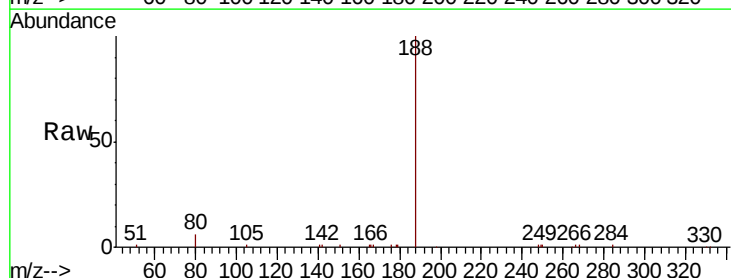
Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

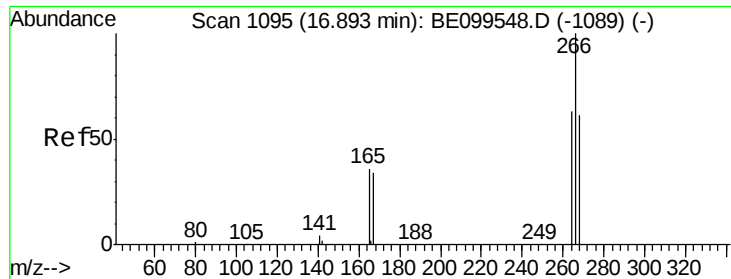
Tgt Ion:166 Resp: 5618
 Ion Ratio Lower Upper
 166 100
 165 99.7 80.3 120.5
 167 15.2 10.7 16.1



#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.26 min Scan# 1122
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion:188 Resp: 15145
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 5.7 6.7 10.1#

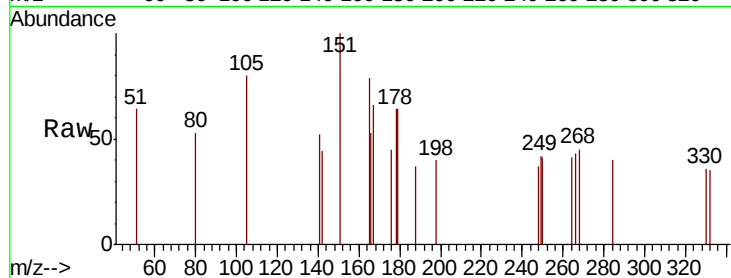




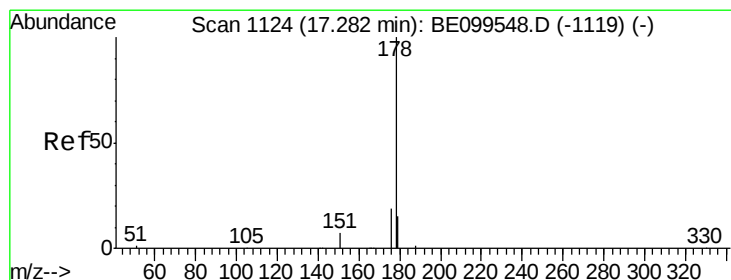
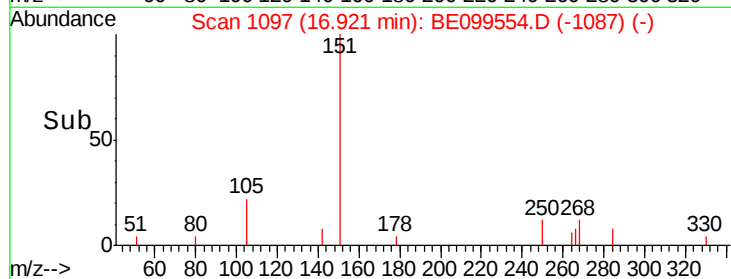
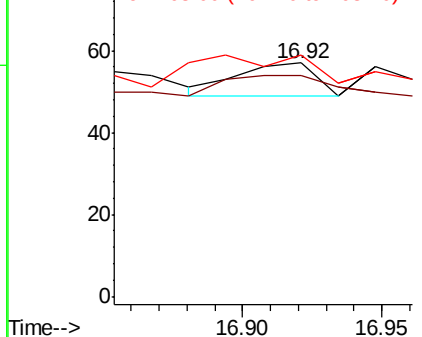
#22
 Pentachlorophenol
 Concen: 0.219 ng
 RT: 16.92 min Scan# 1097
 Delta R.T. 0.03 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

Tgt Ion: 266 Resp: 15
 Ion Ratio Lower Upper
 266 100
 264 94.7 50.8 76.2#
 268 103.5 50.5 75.7#

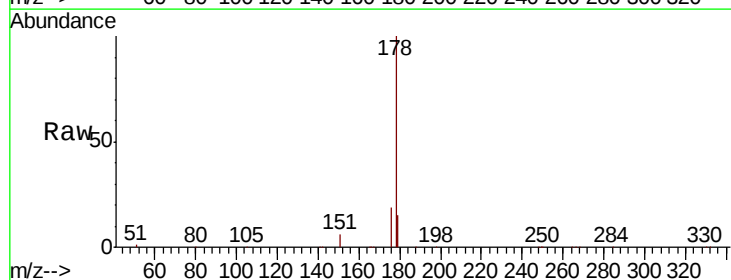


Abundance Ion 266.00 (265.70 to 266.70): E
 Ion 264.00 (263.70 to 264.70): E
 Ion 268.00 (267.70 to 268.70): E

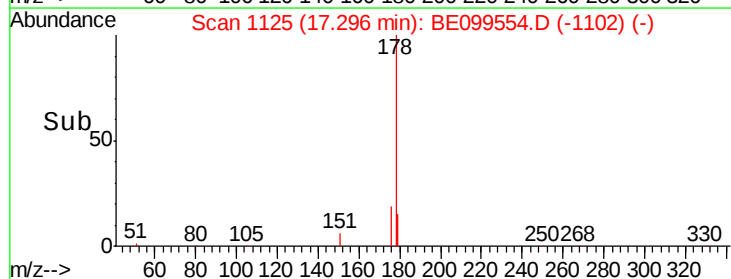
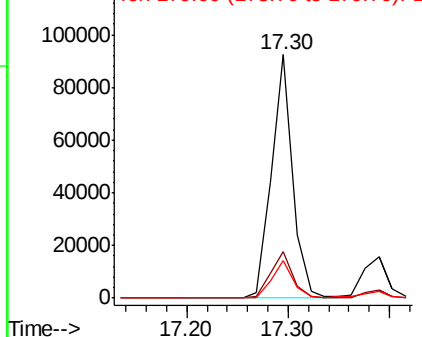


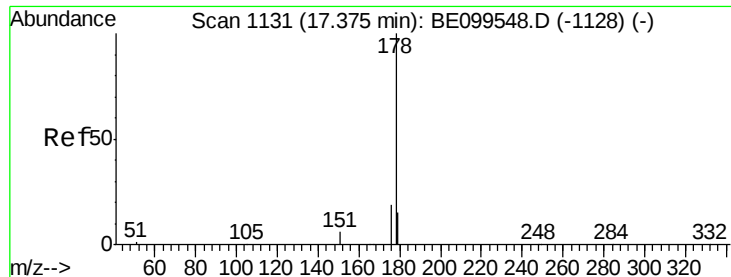
#23
 Phenanthrene
 Concen: 3.413 ng
 RT: 17.30 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion: 178 Resp: 133388
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.6 23.4
 179 15.4 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.697 ng

RT: 17.39 min Scan# 1132

Delta R.T. 0.01 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319DL

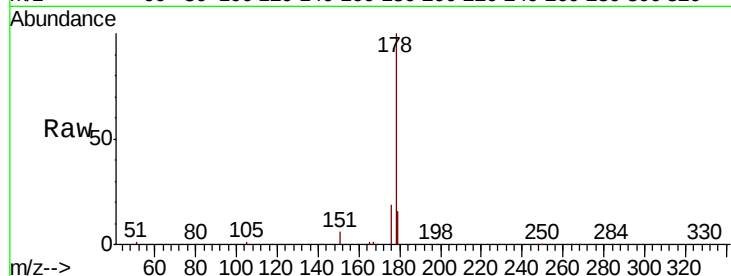
Tgt Ion:178 Resp: 25944

Ion Ratio Lower Upper

178 100

176 19.0 14.9 22.3

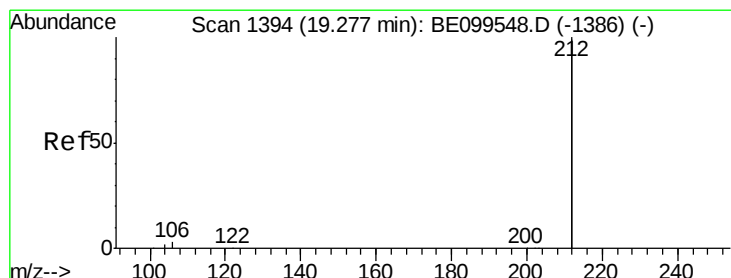
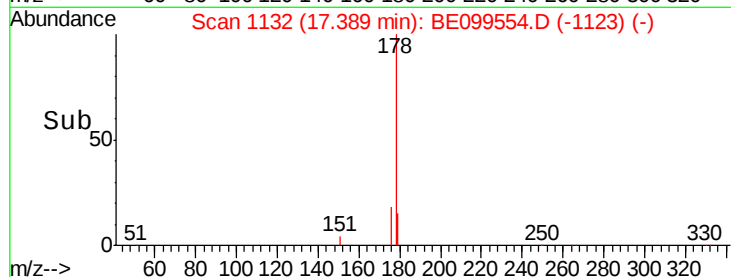
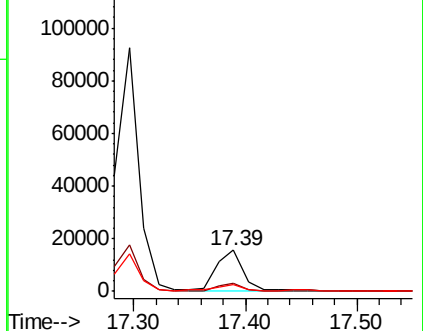
179 16.2 11.9 17.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.008 ng

RT: 19.29 min Scan# 1396

Delta R.T. 0.01 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

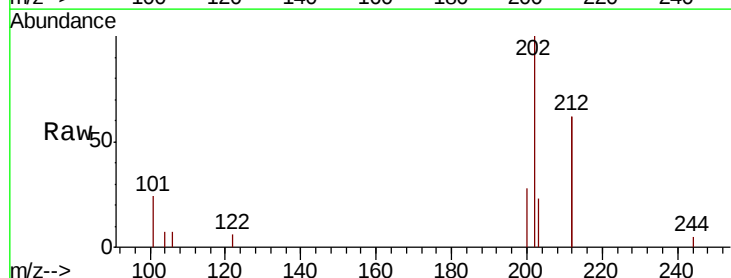
Tgt Ion:212 Resp: 1727

Ion Ratio Lower Upper

212 100

106 0.0 1.5 2.3#

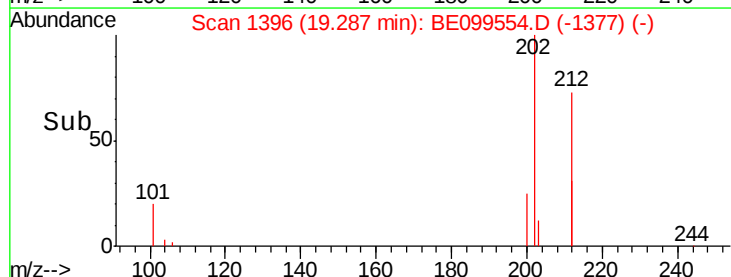
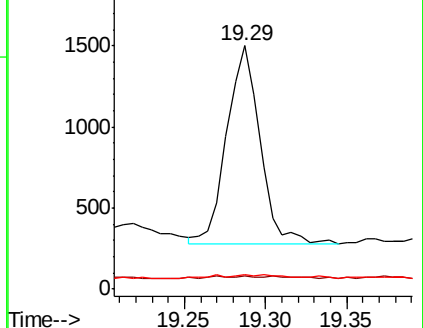
104 3.5 0.9 1.3#

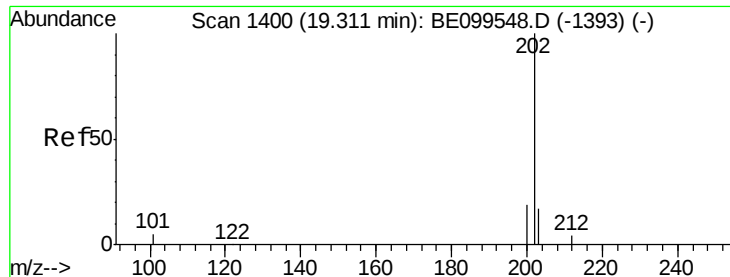


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

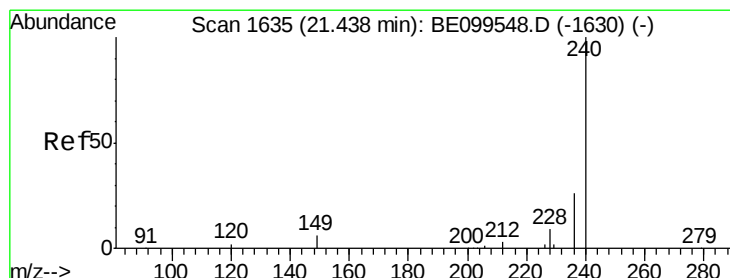
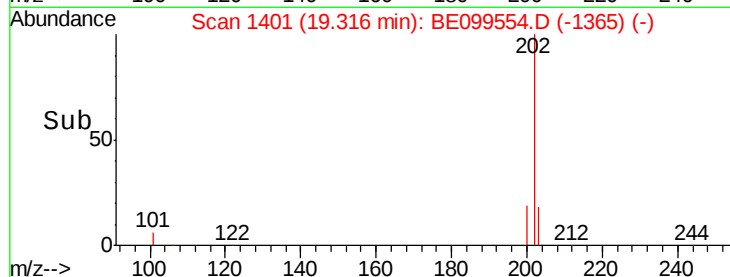
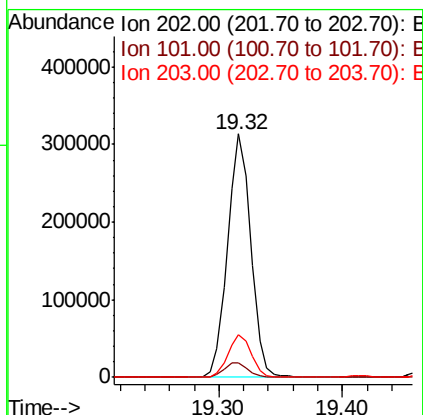
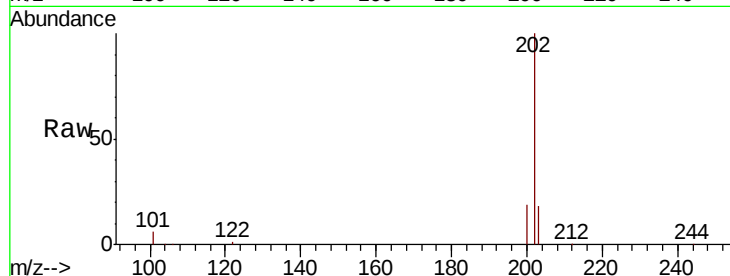




#26
Fluoranthene
Concen: 7.011 ng
RT: 19.32 min Scan# 1401
Delta R.T. 0.00 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

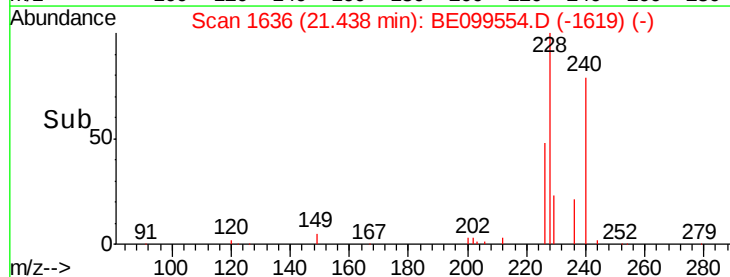
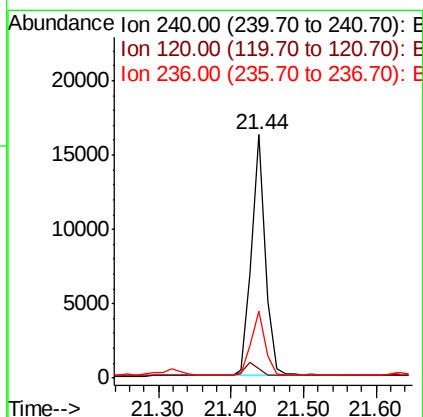
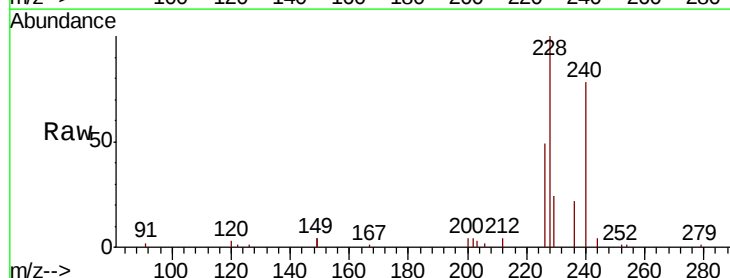
Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

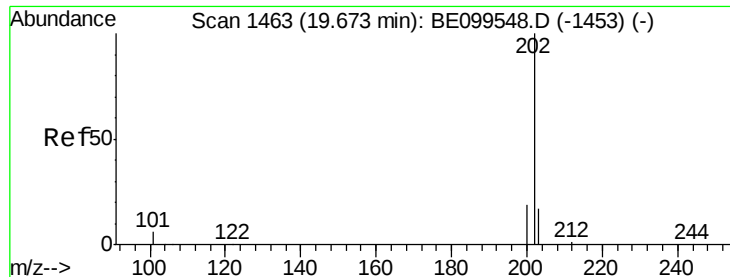
Tgt Ion: 202 Resp: 410408
Ion Ratio Lower Upper
202 100
101 6.2 5.4 8.0
203 17.4 13.9 20.9



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.44 min Scan# 1636
Delta R.T. 0.00 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

Tgt Ion: 240 Resp: 21479
Ion Ratio Lower Upper
240 100
120 3.9 4.0 6.0#
236 27.5 22.0 33.0

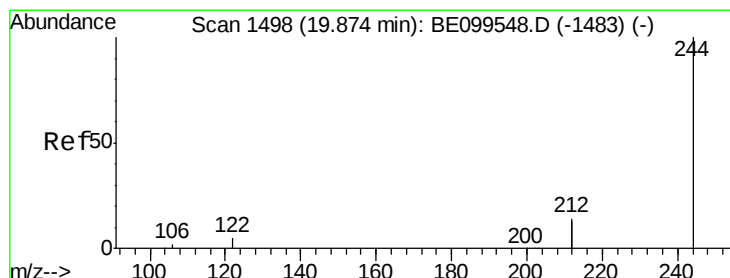
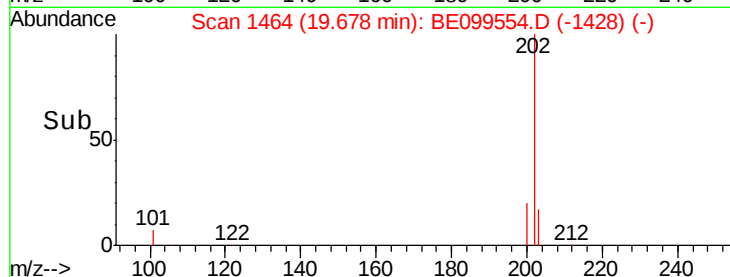
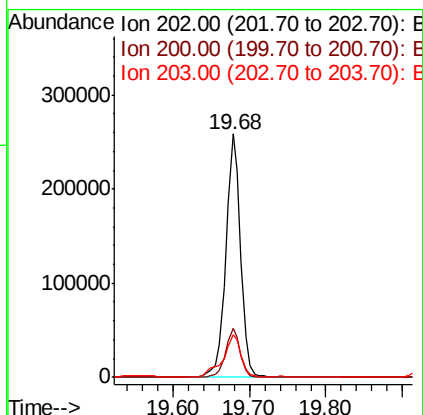
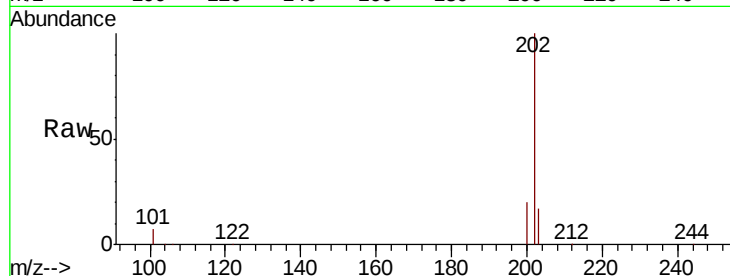




#28
 Pyrene
 Concen: 6.203 ng
 RT: 19.68 min Scan# 1464
 Delta R.T. 0.00 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

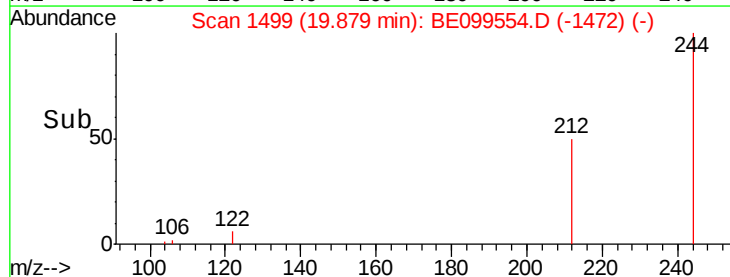
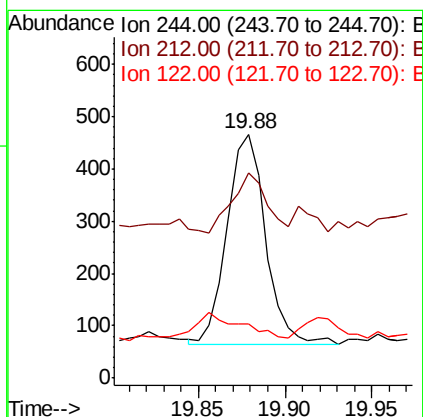
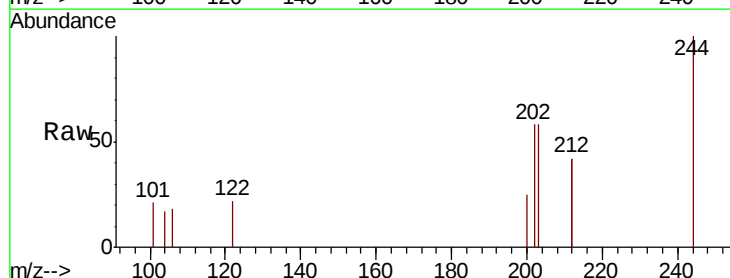
Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

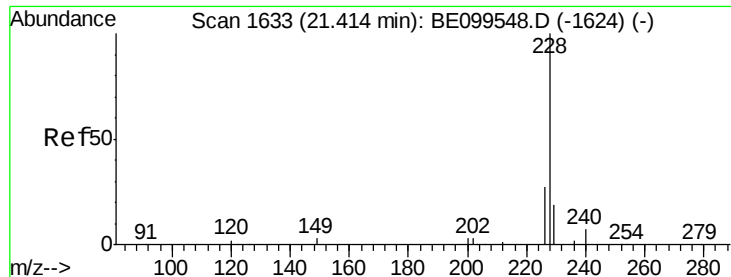
Tgt Ion: 202 Resp: 347282
 Ion Ratio Lower Upper
 202 100
 200 20.0 15.7 23.5
 203 21.4 13.9 20.9#



#29
 Terphenyl-d14
 Concen: 0.016 ng
 RT: 19.88 min Scan# 1499
 Delta R.T. 0.00 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion: 244 Resp: 621
 Ion Ratio Lower Upper
 244 100
 212 84.1 23.2 34.8#
 122 22.3 4.2 6.4#





#30

Benzo(a)anthracene

Concen: 2.922 ng

RT: 21.41 min Scan# 1634

Delta R.T. 0.00 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319DL

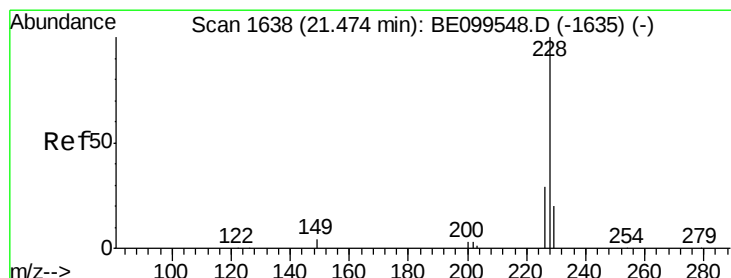
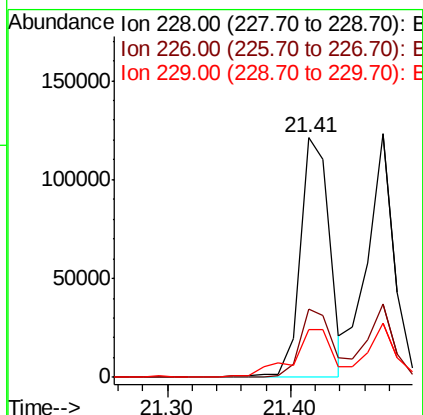
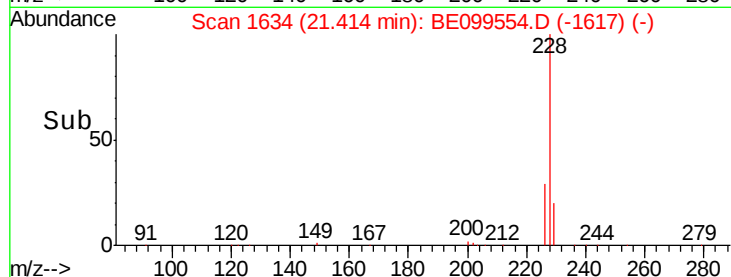
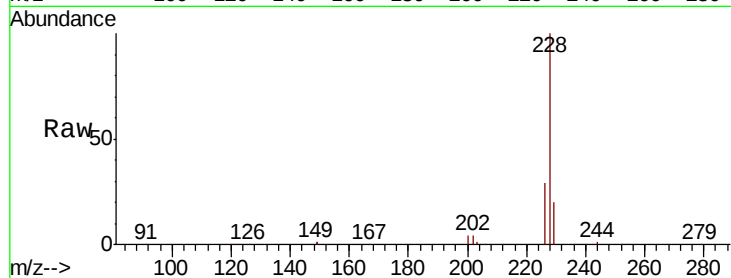
Tgt Ion:228 Resp: 199943

Ion Ratio Lower Upper

228 100

226 28.7 21.0 31.6

229 19.9 16.6 25.0



#31

Chrysene

Concen: 2.463 ng

RT: 21.47 min Scan# 1639

Delta R.T. 0.00 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

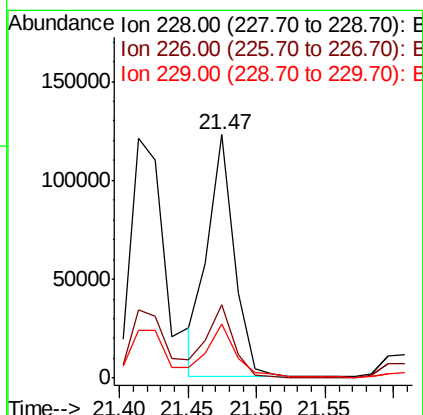
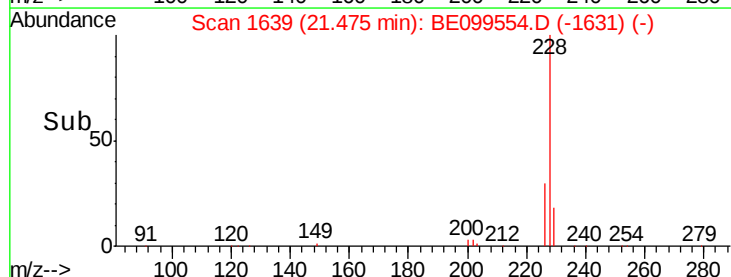
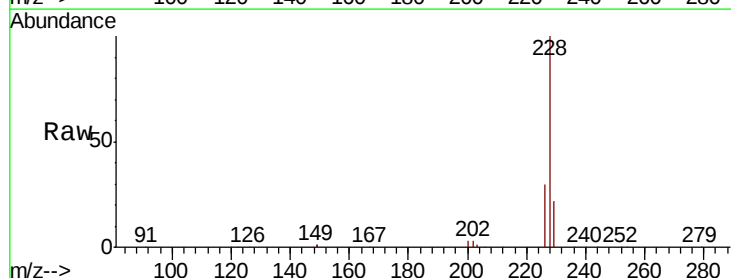
Tgt Ion:228 Resp: 164959

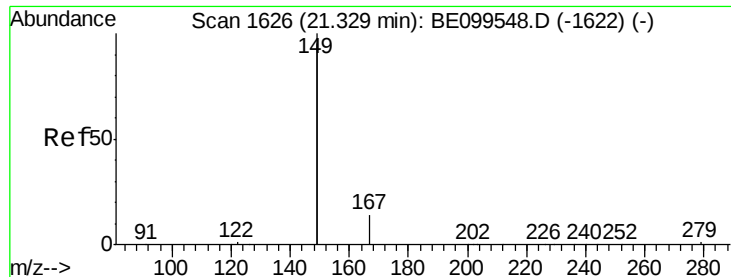
Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

229 22.2 15.8 23.8

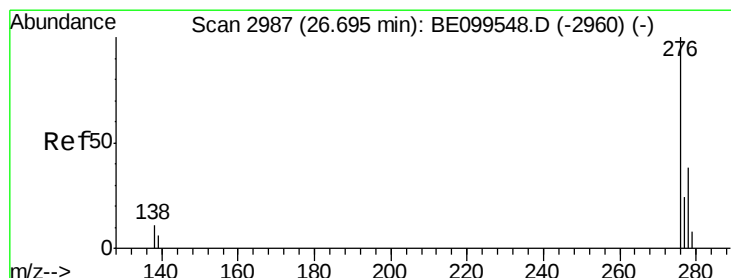
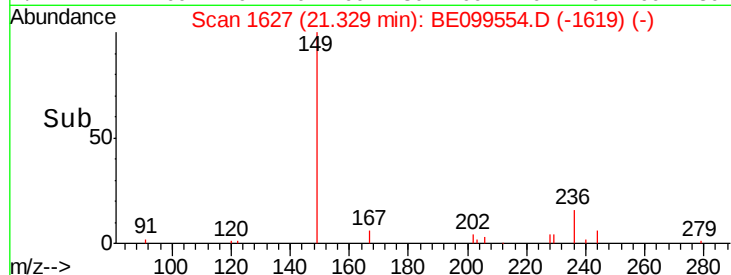
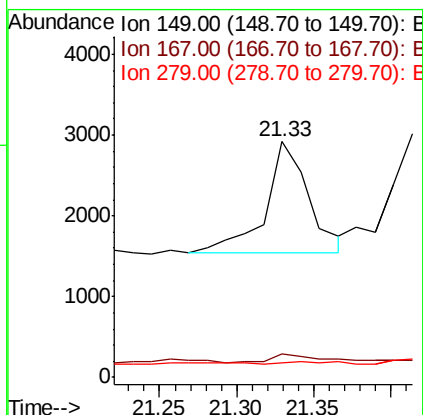
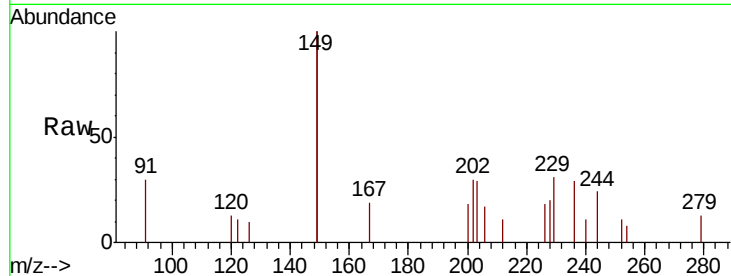




#32
 Bis(2-ethylhexyl)phthalate
 Concen: Below Cal
 RT: 21.33 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

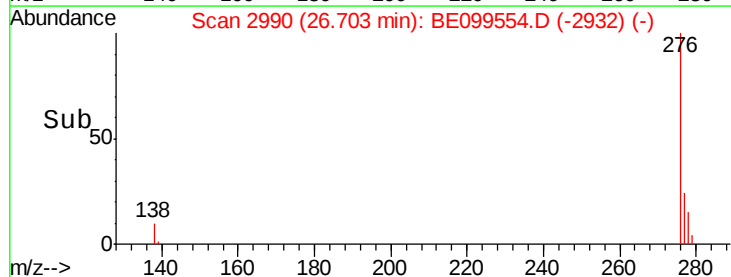
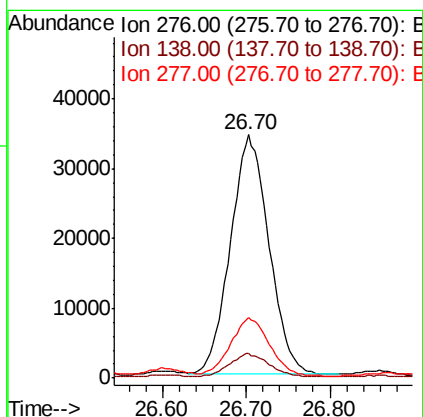
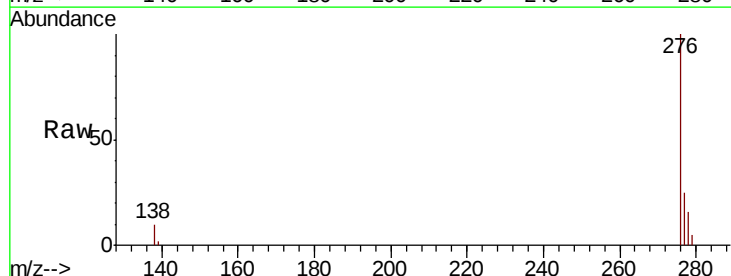
Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

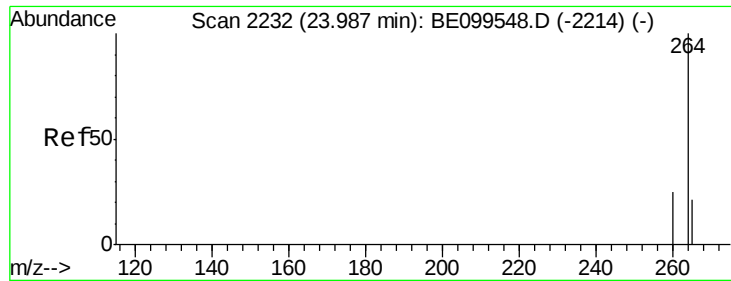
Tgt Ion:149 Resp: 2699
 Ion Ratio Lower Upper
 149 100
 167 10.3 5.8 8.6#
 279 2.7 1.0 1.6#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.391 ng
 RT: 26.70 min Scan# 2990
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion:276 Resp: 110077
 Ion Ratio Lower Upper
 276 100
 138 9.9 10.2 15.2#
 277 24.6 19.2 28.8

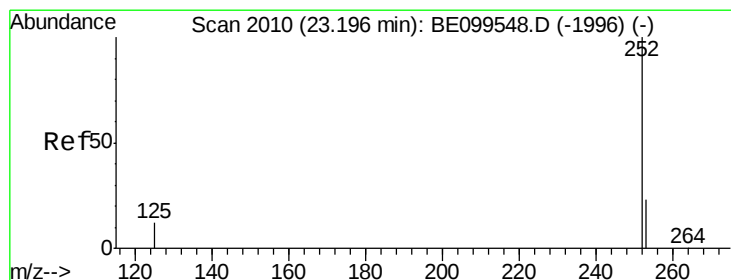
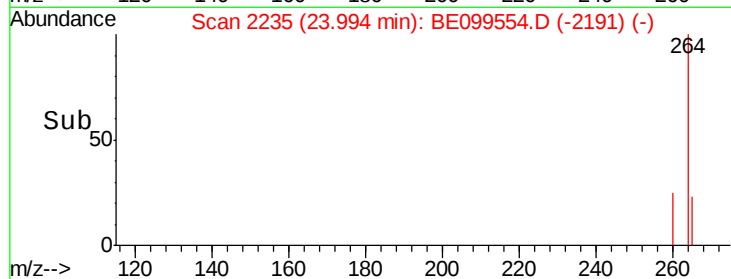
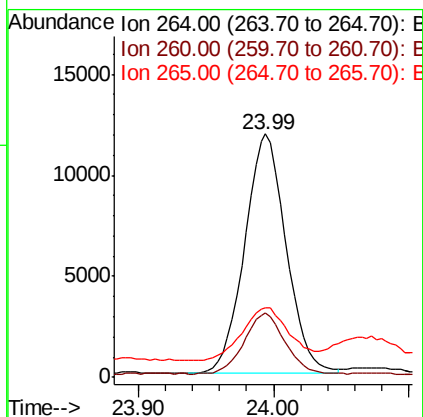
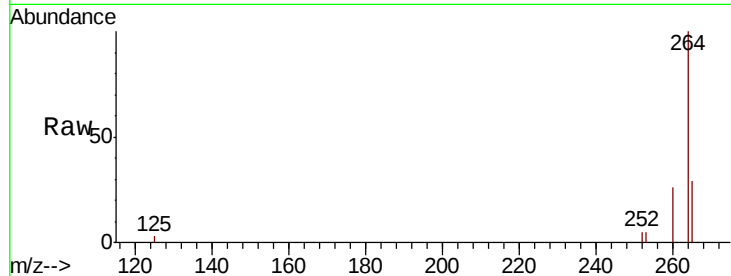




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.99 min Scan# 2235
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

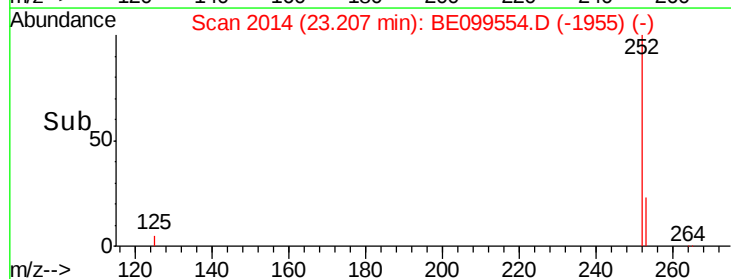
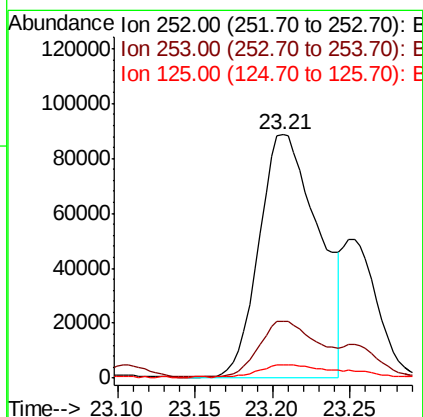
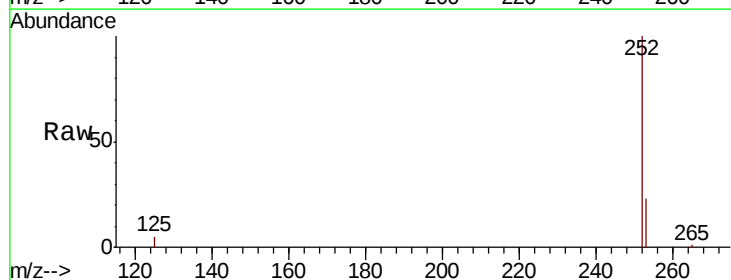
Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

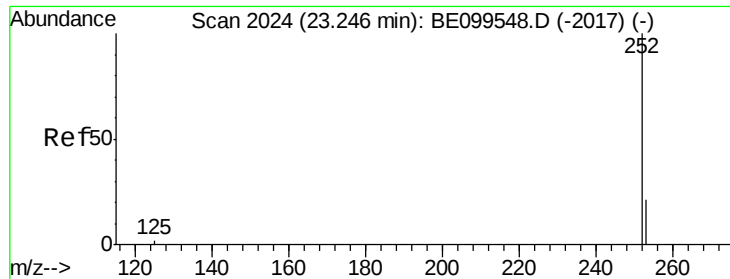
Tgt Ion: 264 Resp: 25283
 Ion Ratio Lower Upper
 264 100
 260 26.4 20.2 30.2
 265 28.7 21.3 31.9



#35
 Benzo(b)fluoranthene
 Concen: 3.220 ng
 RT: 23.21 min Scan# 2014
 Delta R.T. 0.01 min
 Lab File: BE099554.D
 Acq: 6 May 2019 17:14

Tgt Ion: 252 Resp: 234729
 Ion Ratio Lower Upper
 252 100
 253 23.2 18.1 27.1
 125 5.3 5.6 8.4#

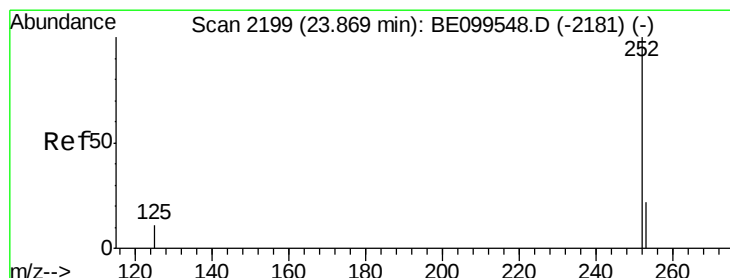
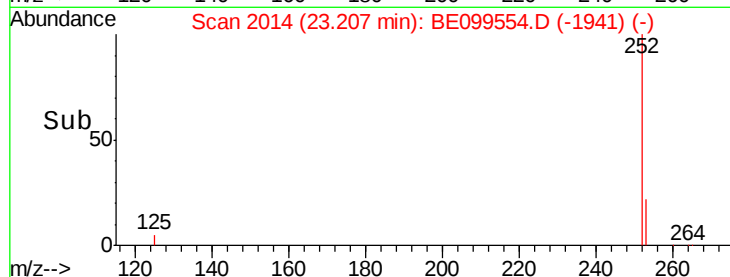
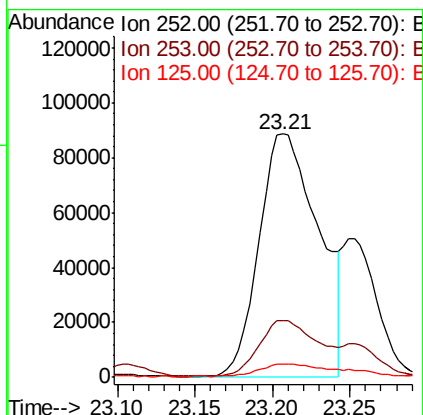
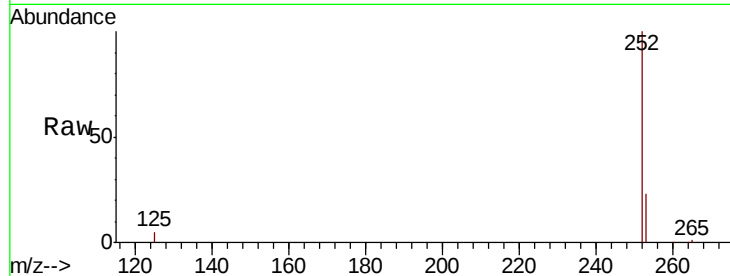




#36
Benzo(k)fluoranthene
Concen: 3.339 ng
RT: 23.21 min Scan# 2014
Delta R.T. -0.04 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

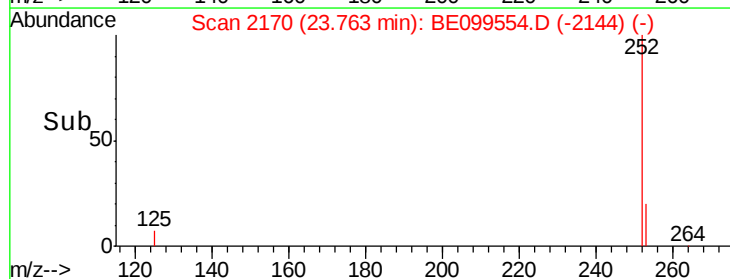
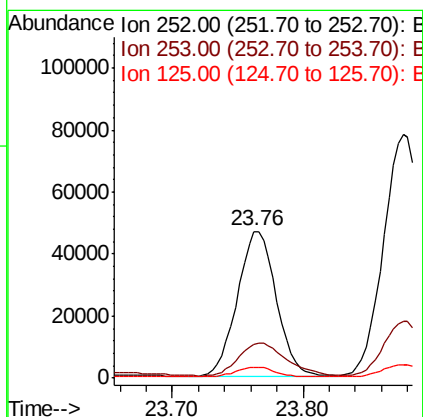
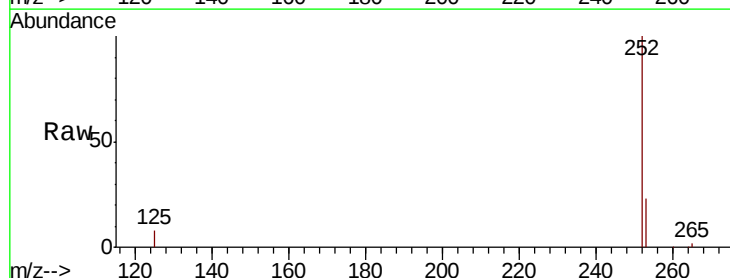
Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

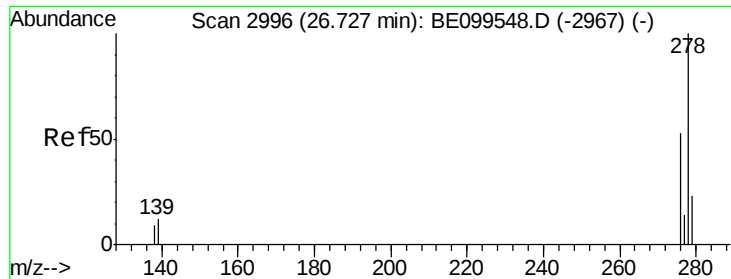
Tgt Ion:252 Resp: 234729
Ion Ratio Lower Upper
252 100
253 23.2 18.4 27.6
125 5.3 5.0 7.4



#37
Benzo(a)pyrene
Concen: 1.417 ng
RT: 23.76 min Scan# 2170
Delta R.T. -0.11 min
Lab File: BE099554.D
Acq: 6 May 2019 17:14

Tgt Ion:252 Resp: 97688
Ion Ratio Lower Upper
252 100
253 23.2 18.9 28.3
125 7.6 6.7 10.1





#38

Dibenzo(a,h)anthracene

Concen: 0.355 ng

RT: 26.72 min Scan# 2996

Delta R.T. -0.00 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319DL

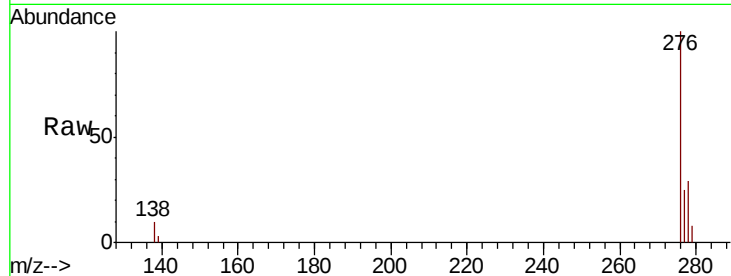
Tgt Ion:278 Resp: 25025

Ion Ratio Lower Upper

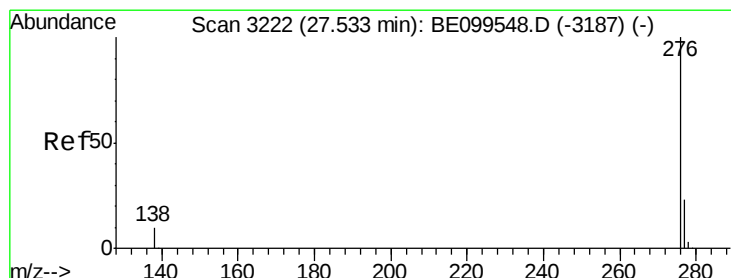
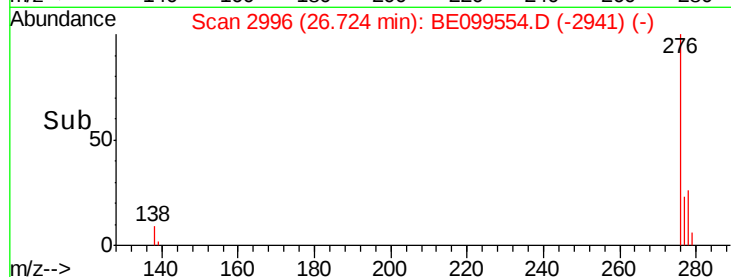
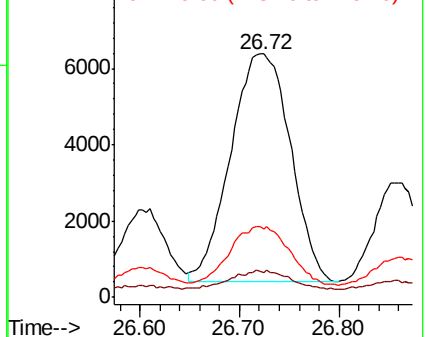
278 100

139 10.4 7.7 11.5

279 28.2 20.2 30.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 1.422 ng

RT: 27.54 min Scan# 3226

Delta R.T. 0.01 min

Lab File: BE099554.D

Acq: 6 May 2019 17:14

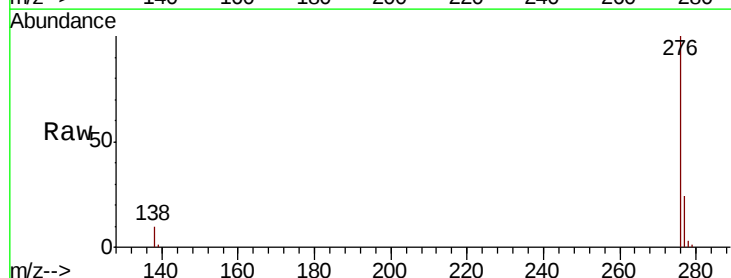
Tgt Ion:276 Resp: 100432

Ion Ratio Lower Upper

276 100

277 24.4 19.5 29.3

138 10.4 9.6 14.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

