

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
 Data File : BE099359.D
 Acq On : 25 Apr 2019 13:48
 Operator : JU/SJ
 Sample : K2534-09
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW031-042219

Quant Time: Apr 26 00:41:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 19 06:51:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	4770	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	19347	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	13464	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	36370	0.40	ng	0.00
27) Chrysene-d12	21.37	240	39350	0.40	ng	0.00
34) Perylene-d12	23.86	264	44134	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	4707	0.40	ng	0.01
5) Phenol-d6	6.97	99	7162	0.43	ng	0.00
8) Nitrobenzene-d5	8.97	82	5928	0.39	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	10910	0.32	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2350	0.53	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	15665	0.30	ng	0.00
25) Fluoranthene-d10	19.22	212	118177	0.27	ng	0.00
29) Terphenyl-d14	19.82	244	20616	0.27	ng	0.00

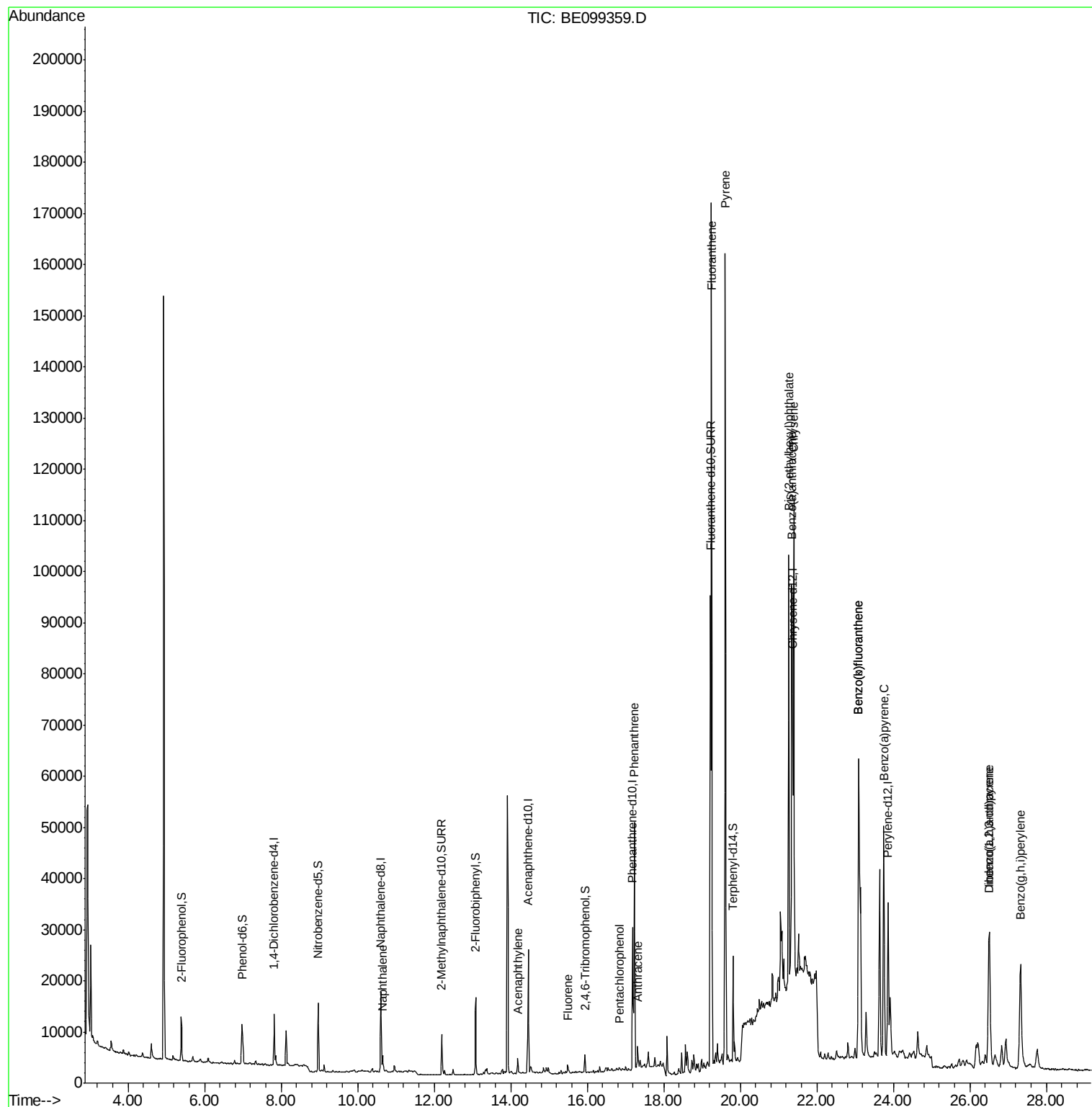
Target Compounds				Qvalue		
9) Naphthalene	10.65	128	4638	0.022	ng	# 94
16) Acenaphthylene	14.18	152	4296	0.071	ng	# 93
18) Fluorene	15.49	166	1626	0.030	ng	# 91
22) Pentachlorophenol	16.84	266	98	0.233	ng	# 74
23) Phenanthrene	17.23	178	50205	0.521	ng	99
24) Anthracene	17.32	178	4536	0.053	ng	# 92
26) Fluoranthene	19.25	202	150006	1.164	ng	98
28) Pyrene	19.61	202	143781	1.240	ng	# 95
30) Benzo(a)anthracene	21.34	228	72167	0.624	ng	96
31) Chrysene	21.40	228	92613	0.752	ng	96
32) Bis(2-ethylhexyl)phthalate	21.27	149	100845	0.958	ng	99
33) Indeno(1,2,3-cd)pyrene	26.50	276	55370	0.455	ng	# 96
35) Benzo(b)fluoranthene	23.09	252	113088	0.837	ng	# 94
36) Benzo(k)fluoranthene	23.09	252	113088	0.840	ng	# 96
37) Benzo(a)pyrene	23.75	252	72999	0.603	ng	95
38) Dibenzo(a,h)anthracene	26.52	278	13166	0.106	ng	# 72
39) Benzo(a,h,i)perylene	27.32	276	56912	0.454	ng	96

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
Data File : BE099359.D
Acq On : 25 Apr 2019 13:48
Operator : JU/SJ
Sample : K2534-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW031-042219

Quant Time: Apr 26 00:41:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 19 06:51:38 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

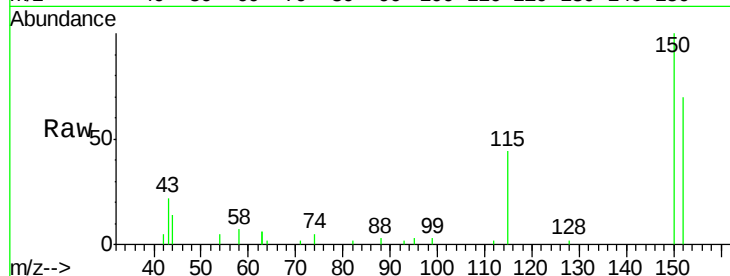
Tot Ion:152 Resp: 4770

Ion Ratio Lower Upper

152 100

150 143.7 119.5 179.3

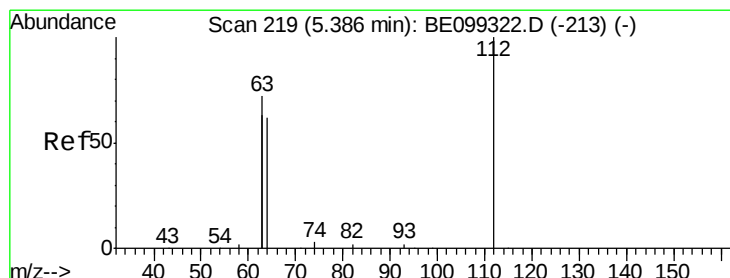
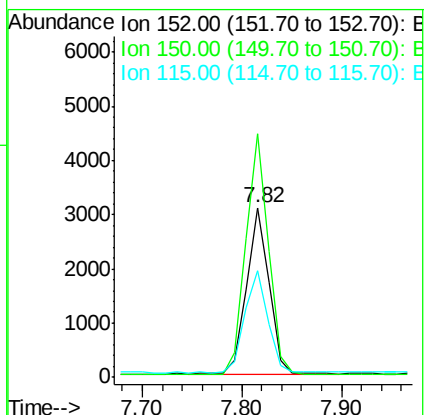
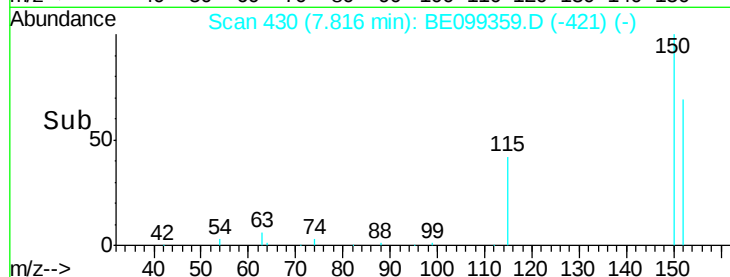
115 63.1 47.5 71.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.404 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

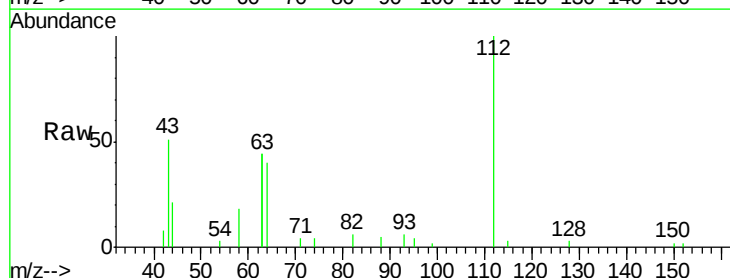
Tgt Ion:112 Resp: 4707

Ion Ratio Lower Upper

112 100

64 55.4 44.9 67.3

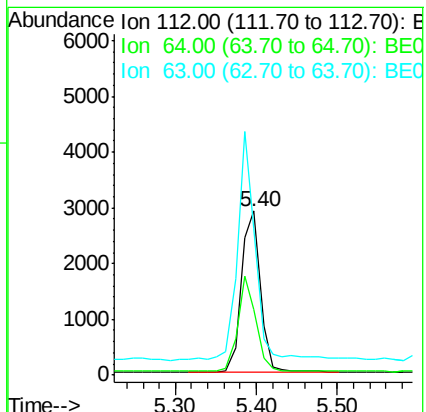
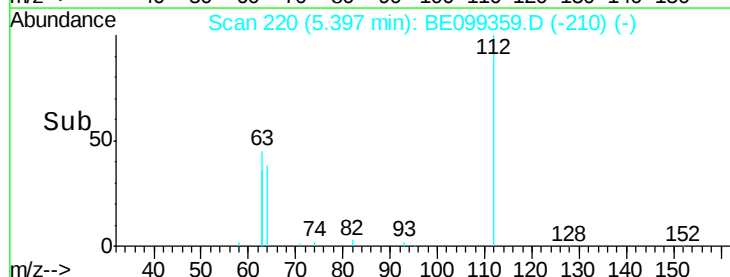
63 137.1 97.4 146.0

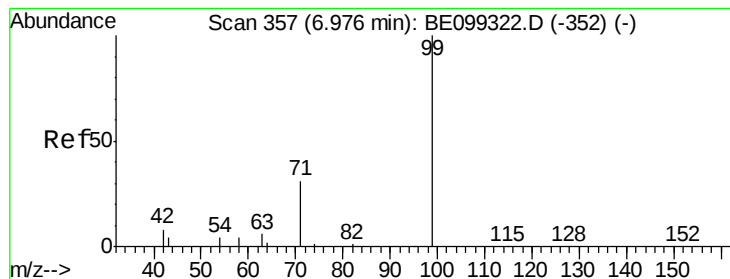


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.431 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

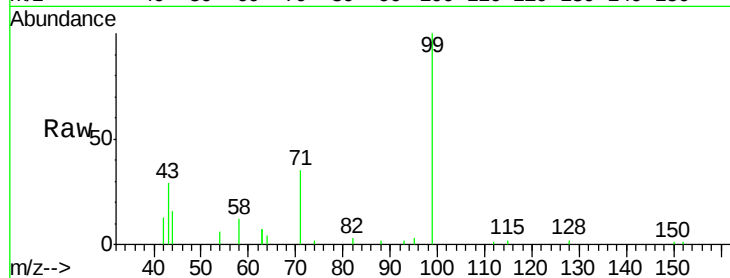
Tot Ion: 99 Resp: 7162

Ion Ratio Lower Upper

99 100

42 17.0 11.7 17.5

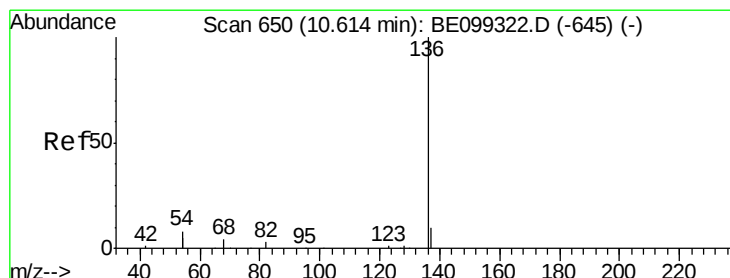
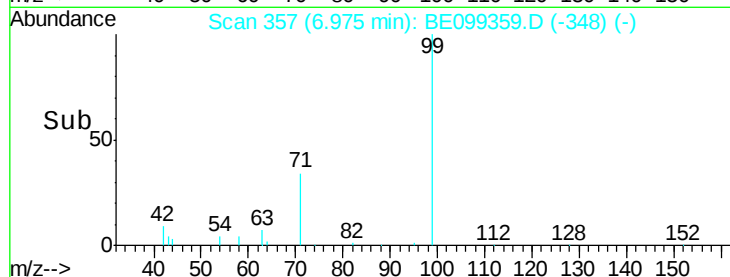
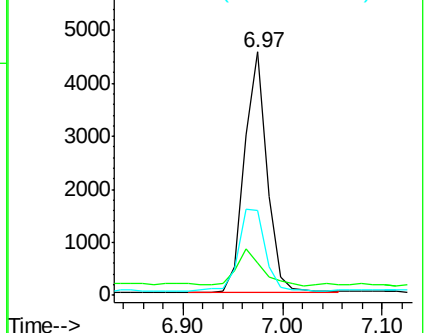
71 40.2 29.6 44.4



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: 10.60 min Scan# 649

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Tgt Ion: 136 Resp: 19347

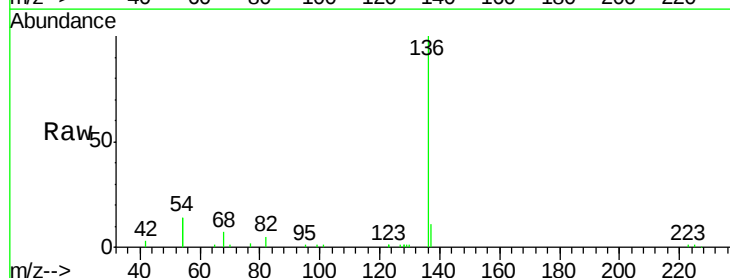
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 27.3 23.8 35.8

68 7.0 6.4 9.6

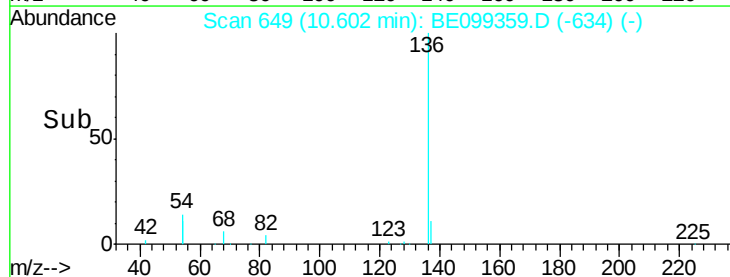
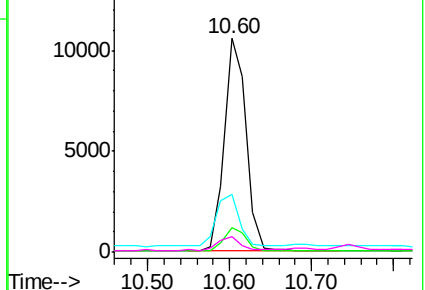


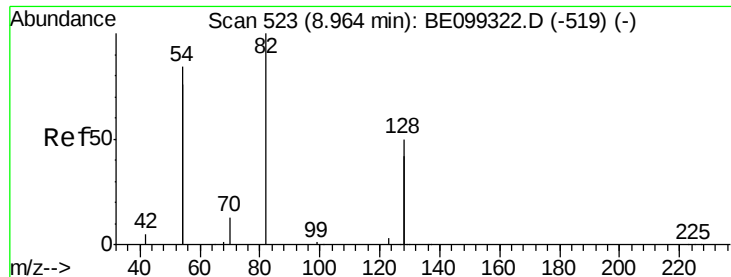
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.395 ng

RT: 8.97 min Scan# 523

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

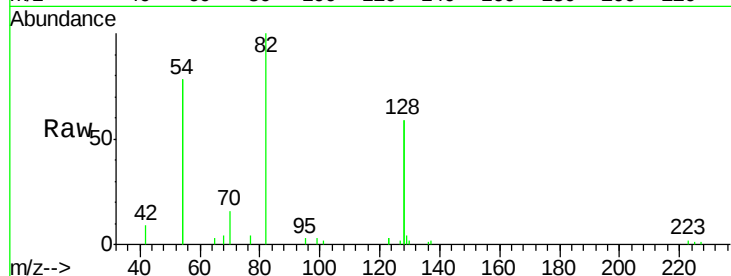
Tot Ion: 82 Resp: 5928

Ion Ratio Lower Upper

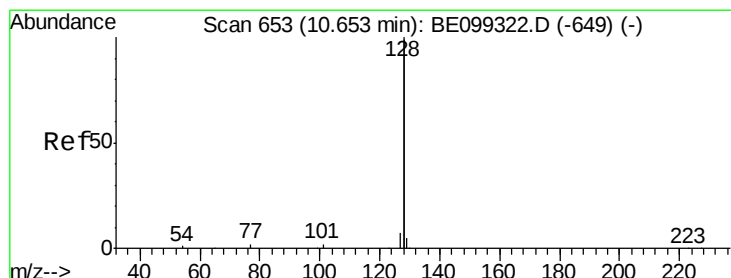
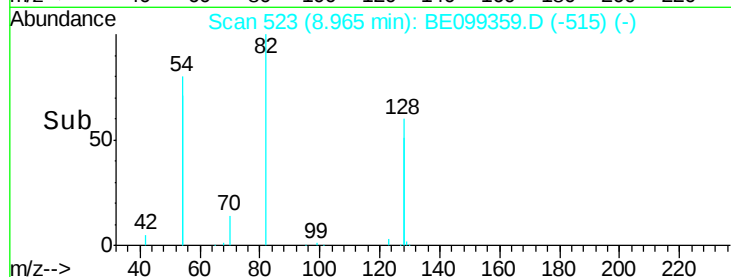
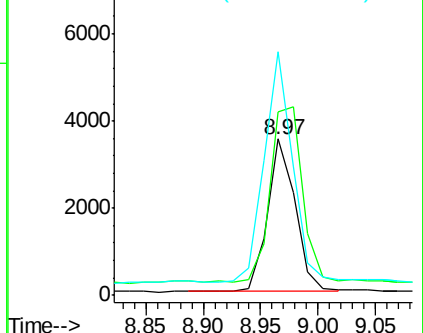
82 100

128 117.2 91.7 137.5

54 155.6 122.8 184.2



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



#9

Naphthalene

Concen: 0.022 ng

RT: 10.65 min Scan# 653

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

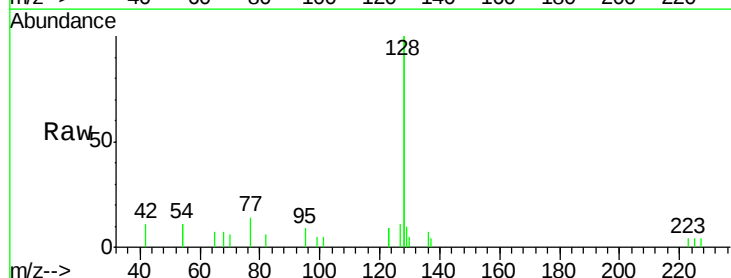
Tgt Ion:128 Resp: 4638

Ion Ratio Lower Upper

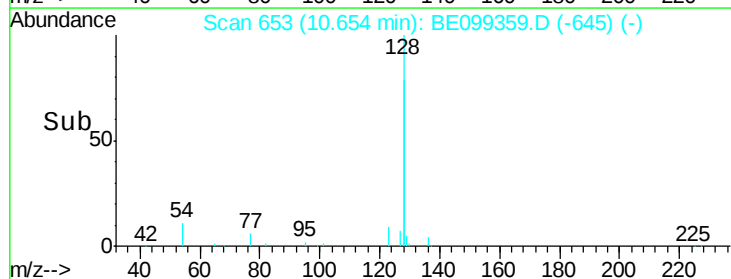
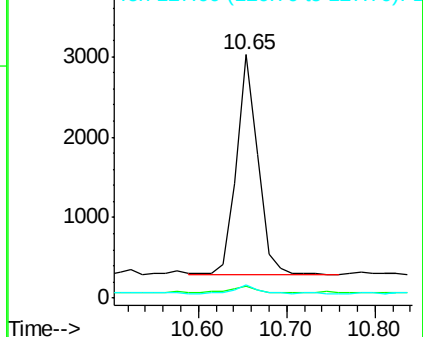
128 100

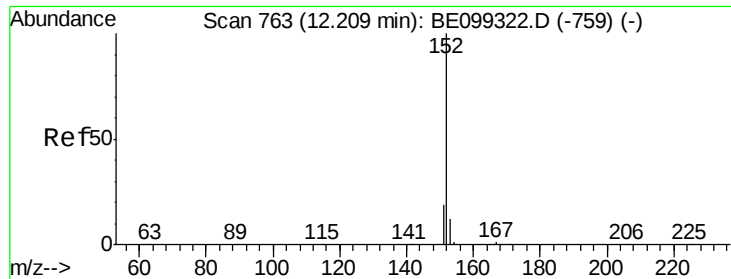
129 4.8 2.3 3.5#

127 5.3 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

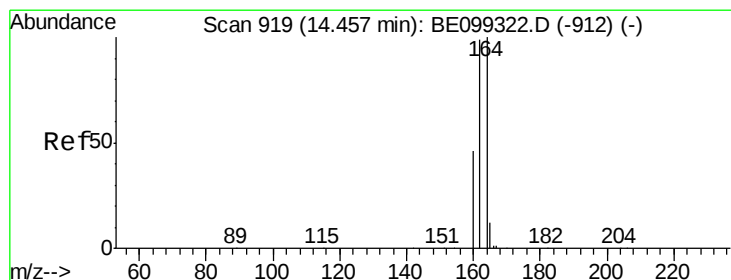
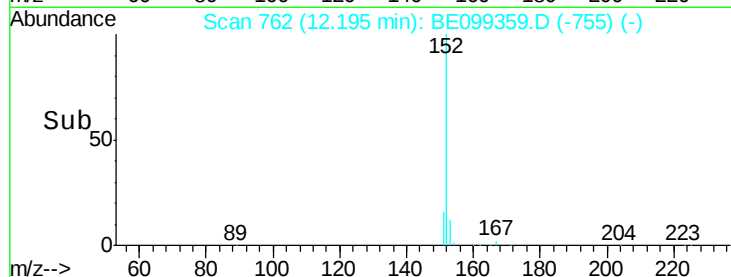
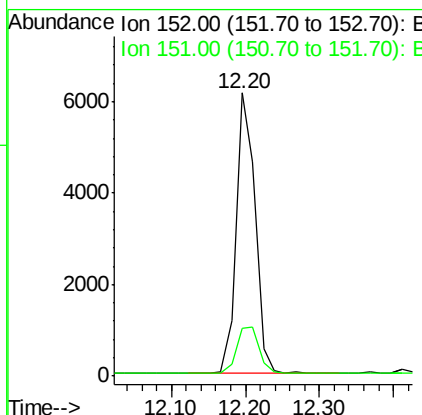
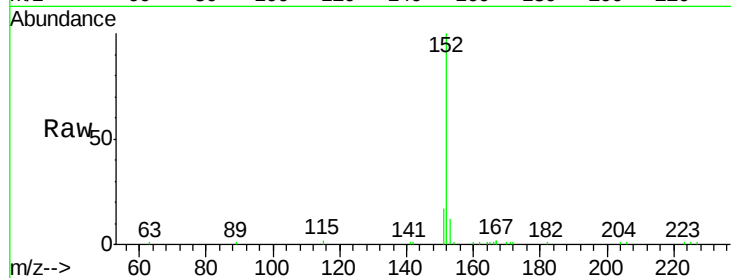




#11
 2-Methylnaphthalene-d10
 Concen: 0.320 ng
 RT: 12.20 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BE099359.D
 Acq: 25 Apr 2019 13:48

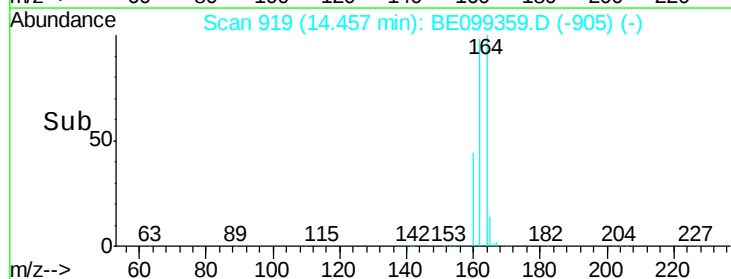
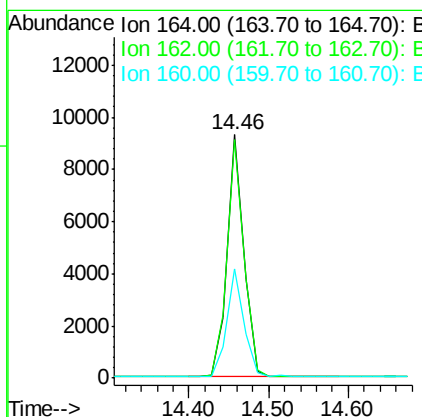
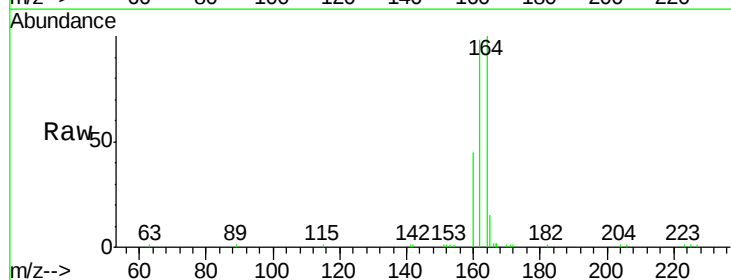
Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW031-042219

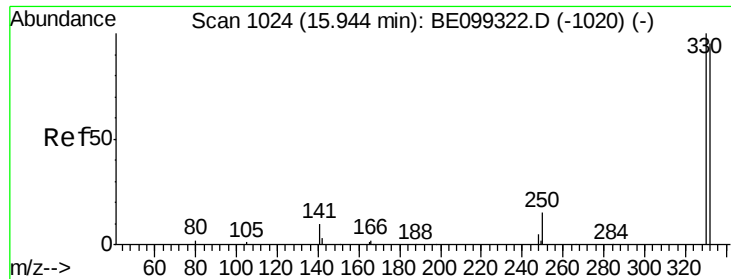
Tot Ion:152 Resp: 10910
 Ion Ratio Lower Upper
 152 100
 151 19.8 14.9 22.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099359.D
 Acq: 25 Apr 2019 13:48

Tgt Ion:164 Resp: 13464
 Ion Ratio Lower Upper
 164 100
 162 97.9 77.8 116.6
 160 44.9 37.1 55.7

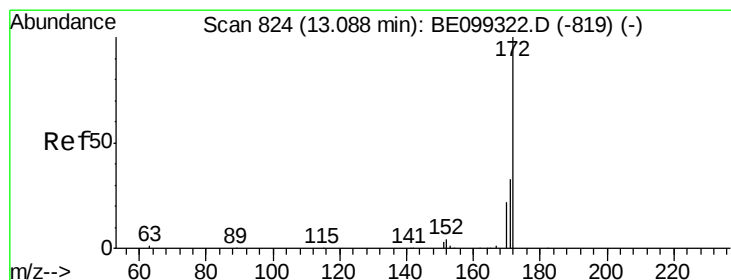
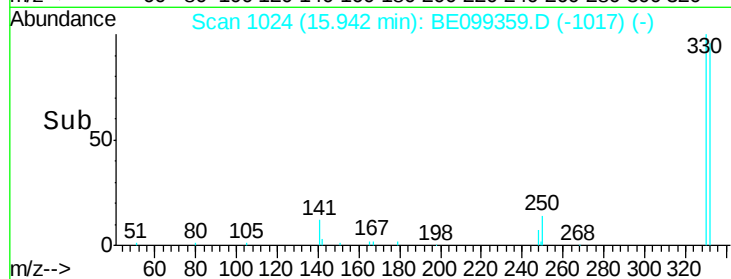
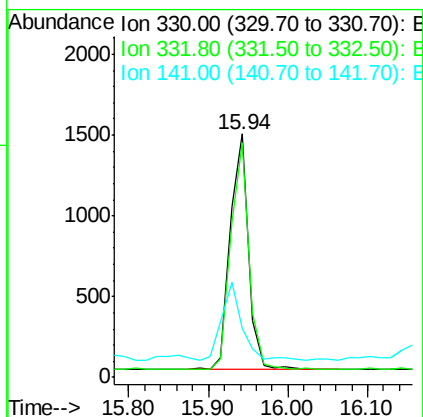
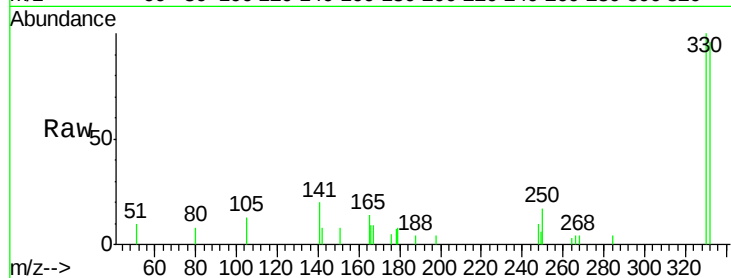




#14
 2,4,6-Tribromophenol
 Concen: 0.525 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099359.D
 Acq: 25 Apr 2019 13:48

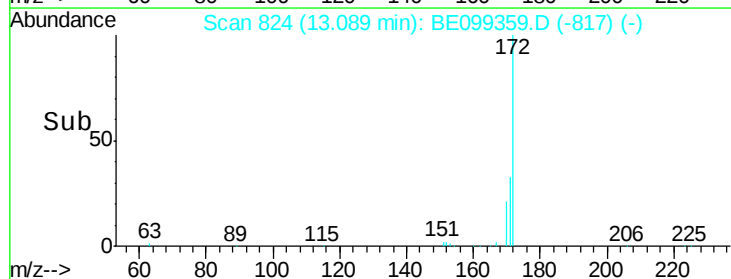
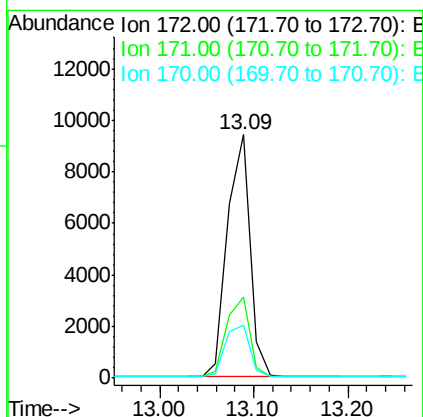
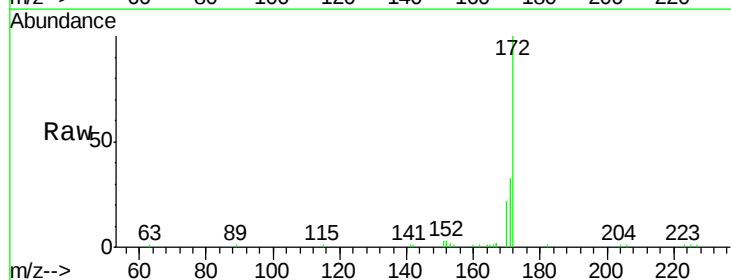
Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW031-042219

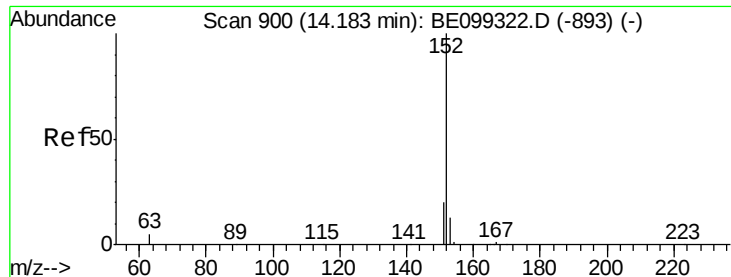
Tot Ion:330 Resp: 2350
 Ion Ratio Lower Upper
 330 100
 332 97.2 82.5 123.7
 141 35.8 24.9 37.3



#15
 2-Fluorobiphenyl
 Concen: 0.296 ng
 RT: 13.09 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BE099359.D
 Acq: 25 Apr 2019 13:48

Tgt Ion:172 Resp: 15665
 Ion Ratio Lower Upper
 172 100
 171 33.3 26.2 39.2
 170 21.9 18.1 27.1

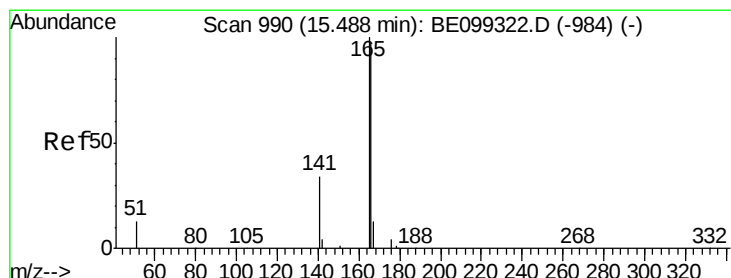
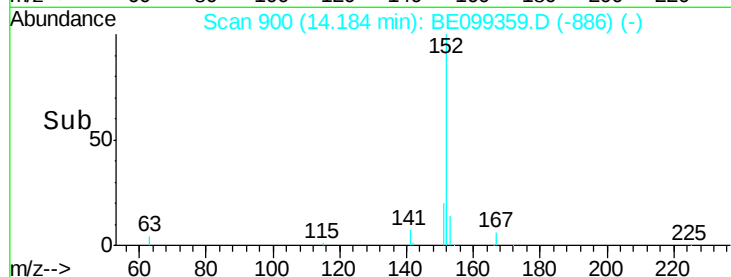
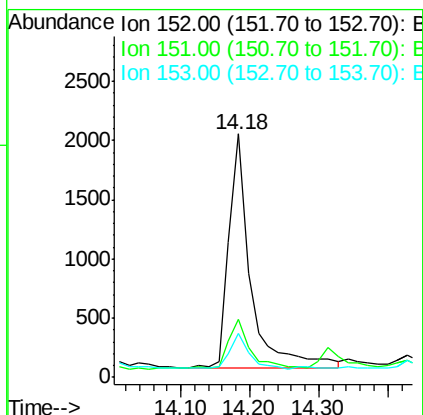
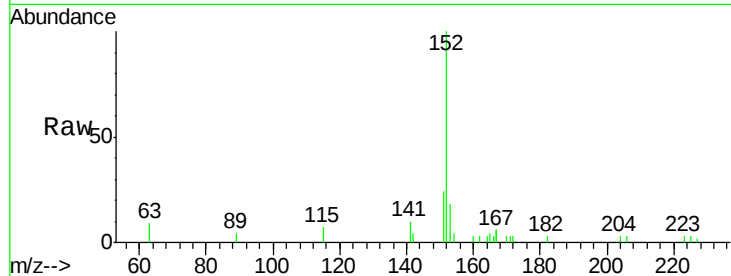




#16
Acenaphthylene
Concen: 0.071 ng
RT: 14.18 min Scan# 900
Delta R.T. 0.00 min
Lab File: BE099359.D
Acq: 25 Apr 2019 13:48

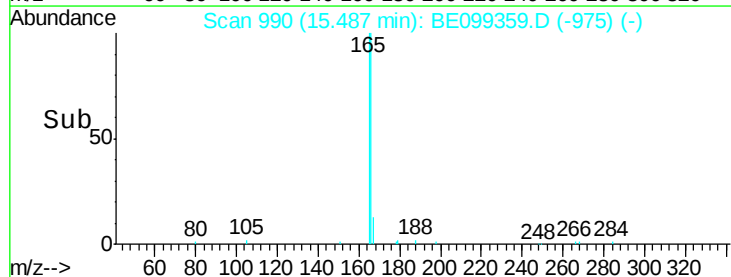
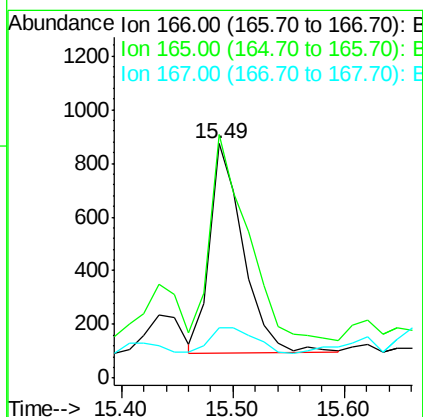
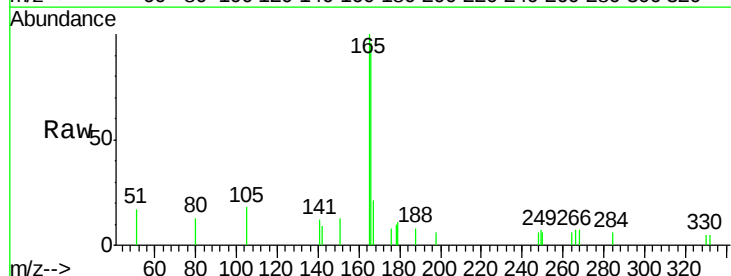
Instrument :
BNA_E
ClientSampleId :
EXT-025-SW031-042219

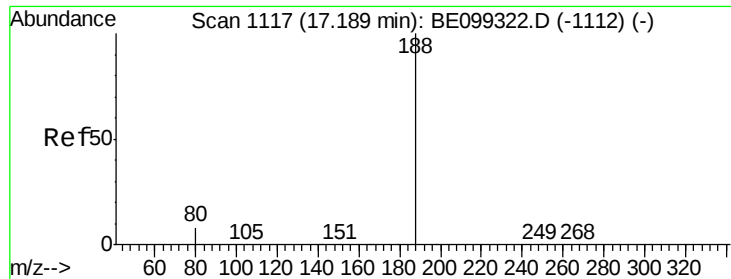
Tot Ion:152 Resp: 4296
Ion Ratio Lower Upper
152 100
151 24.0 15.5 23.3#
153 13.2 10.2 15.4



#18
Fluorene
Concen: 0.030 ng
RT: 15.49 min Scan# 990
Delta R.T. -0.00 min
Lab File: BE099359.D
Acq: 25 Apr 2019 13:48

Tgt Ion:166 Resp: 1626
Ion Ratio Lower Upper
166 100
165 109.0 79.7 119.5
167 16.7 11.0 16.4#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

Tot Ion:188 Resp: 36370

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

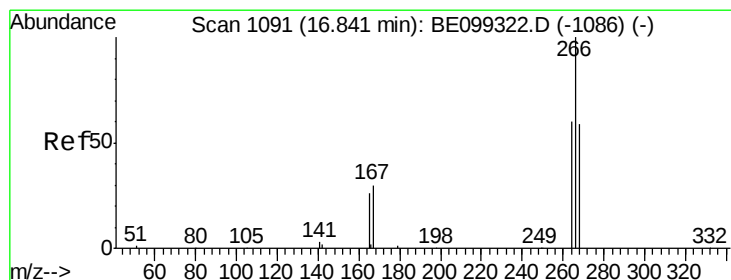
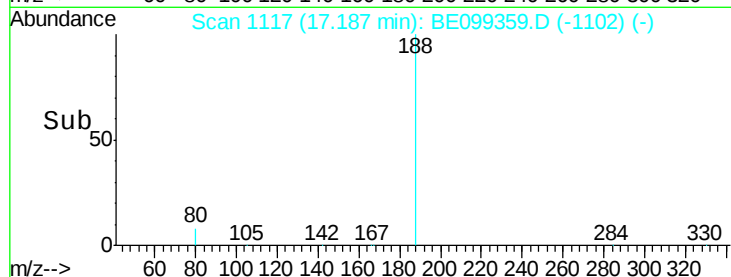
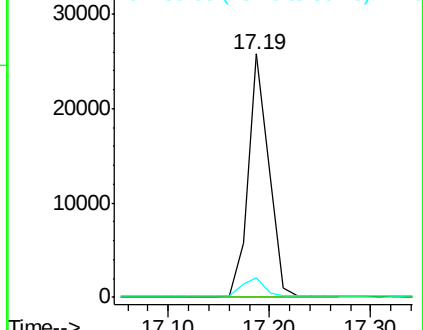
80 8.2 6.2 9.4



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.233 ng

RT: 16.84 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

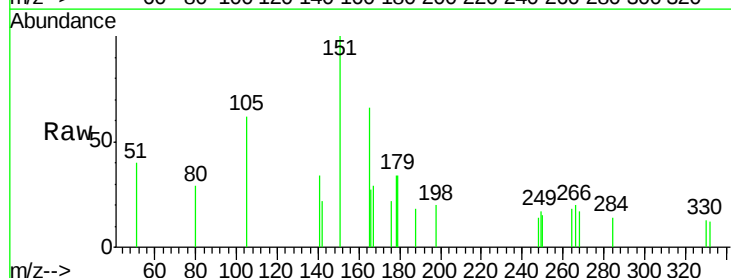
Tgt Ion:266 Resp: 98

Ion Ratio Lower Upper

266 100

264 90.0 54.5 81.7#

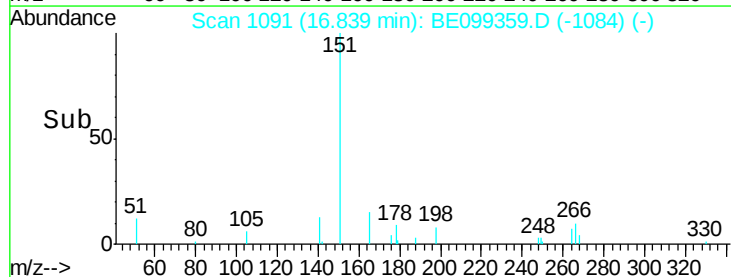
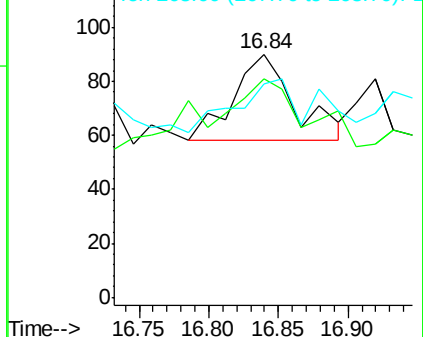
268 87.8 54.3 81.5#

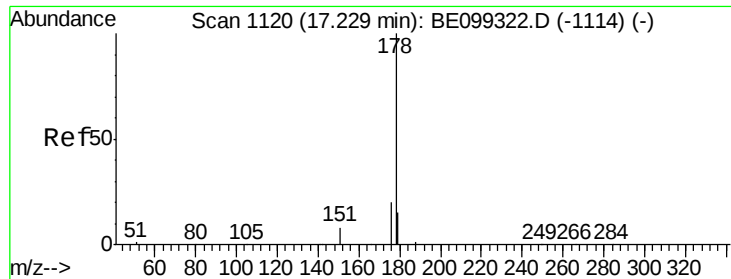


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.521 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

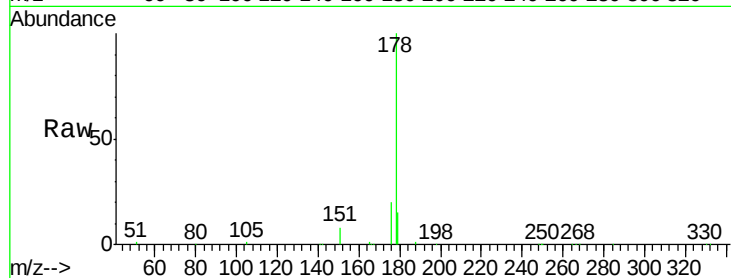
Tot Ion:178 Resp: 50205

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

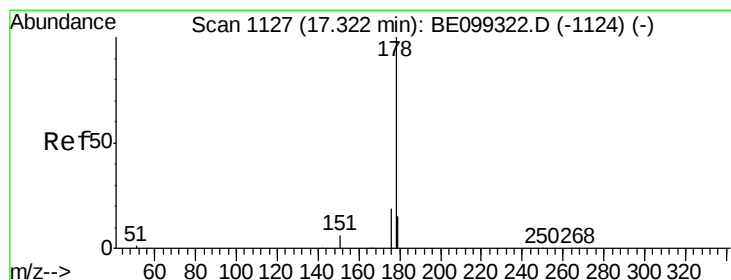
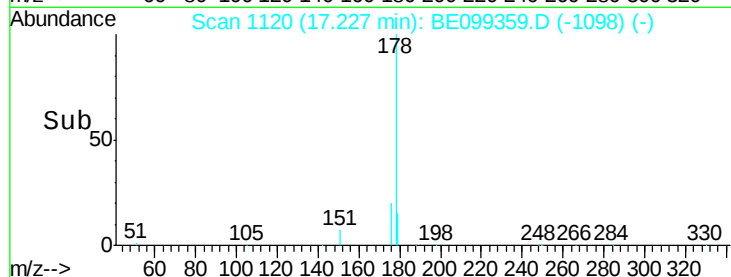
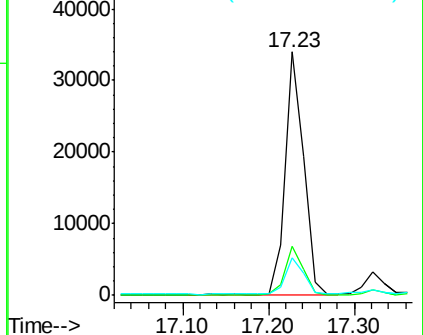
179 15.1 12.4 18.6



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: 0.053 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

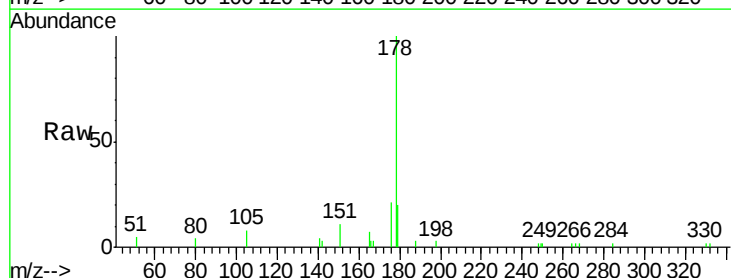
Tgt Ion:178 Resp: 4536

Ion Ratio Lower Upper

178 100

176 18.0 15.1 22.7

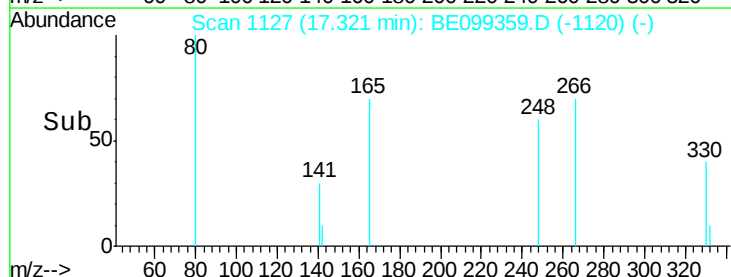
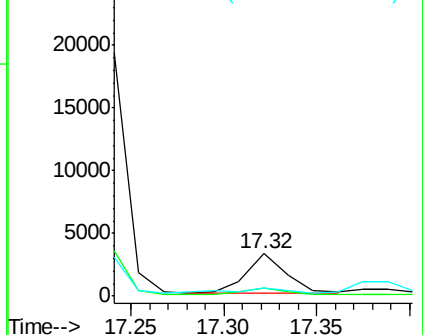
179 21.0 11.9 17.9#

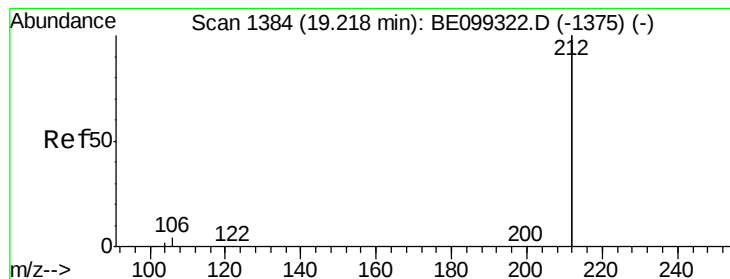


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.270 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

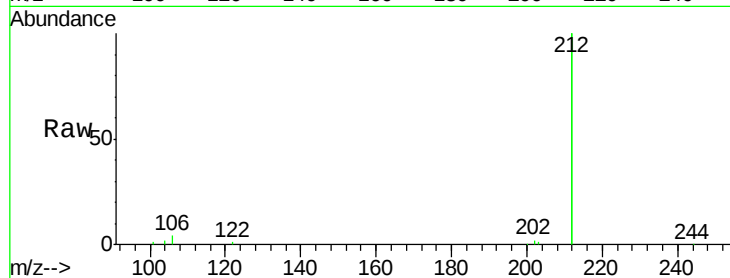
Tot Ion:212 Resp: 118177

Ion Ratio Lower Upper

212 100

106 2.1 1.8 2.6

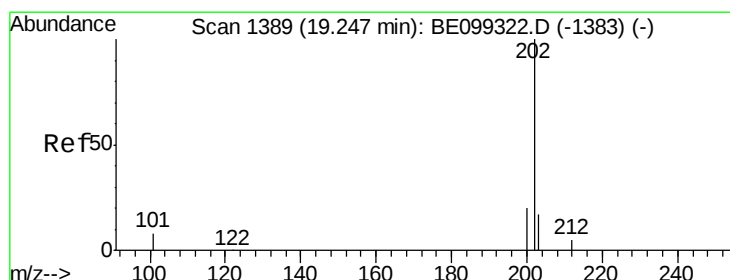
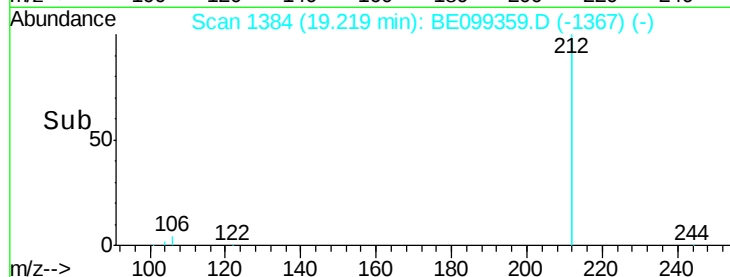
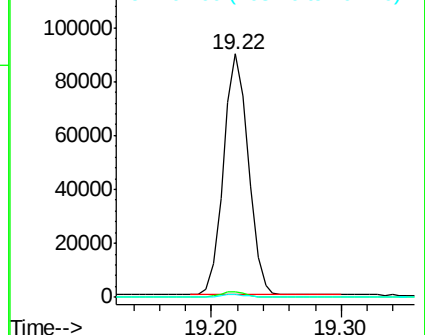
104 1.2 1.0 1.4



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: 1.164 ng

RT: 19.25 min Scan# 1389

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

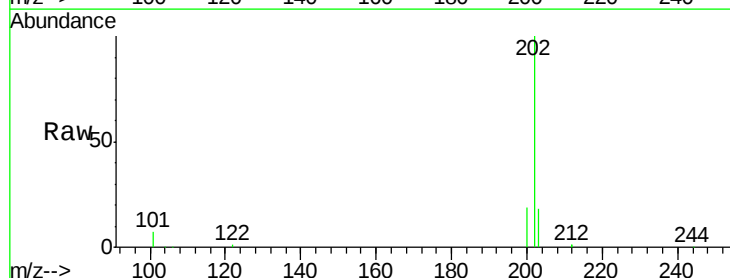
Tgt Ion:202 Resp: 150006

Ion Ratio Lower Upper

202 100

101 7.2 6.4 9.6

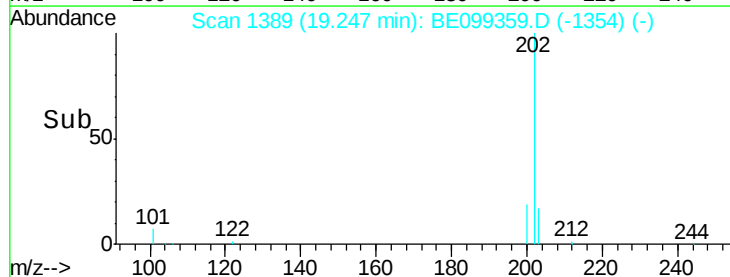
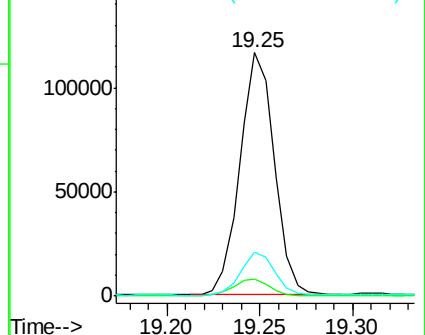
203 17.6 13.5 20.3

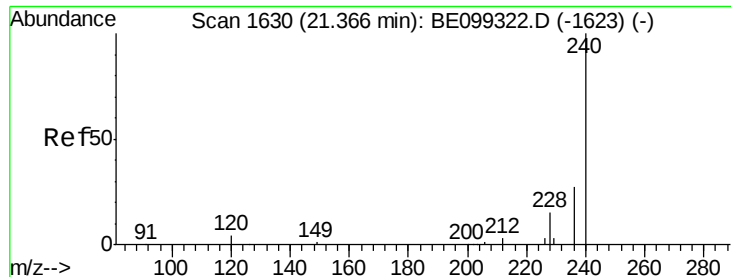


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

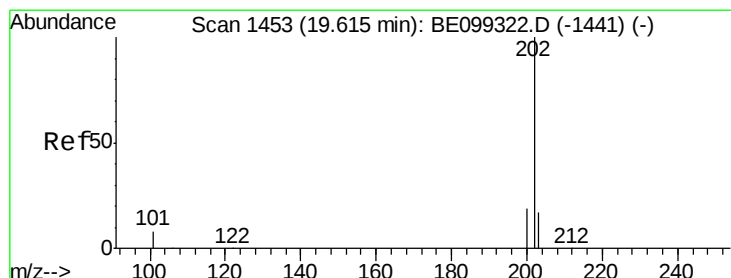
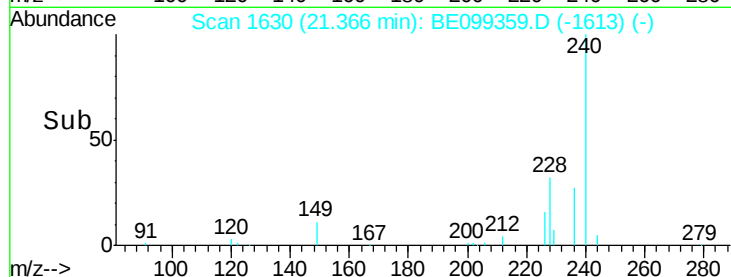
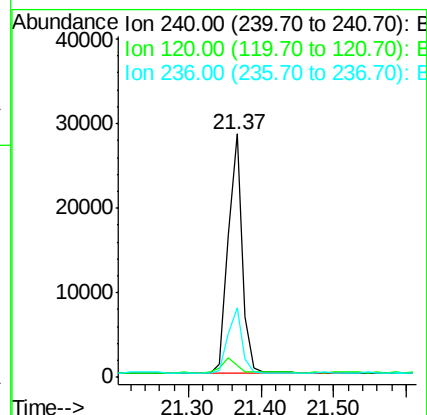
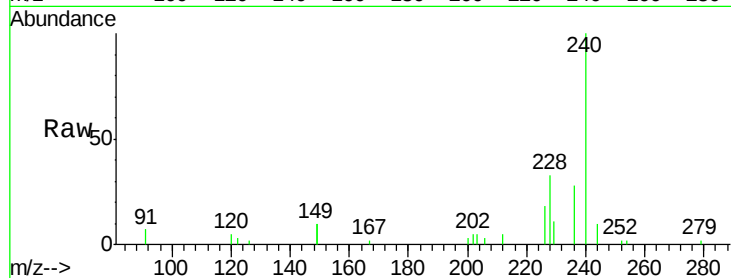




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE099359.D
Acq: 25 Apr 2019 13:48

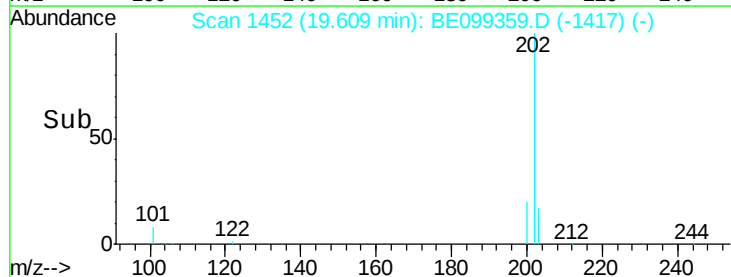
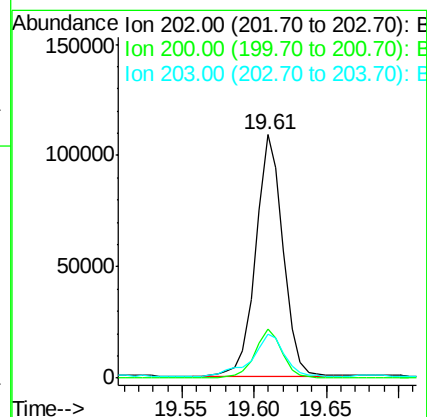
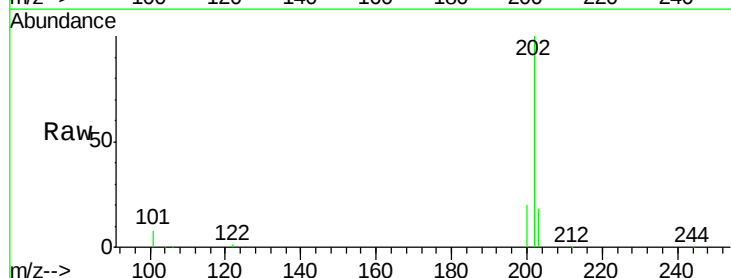
Instrument :
BNA_E
ClientSampleId :
EXT-025-SW031-042219

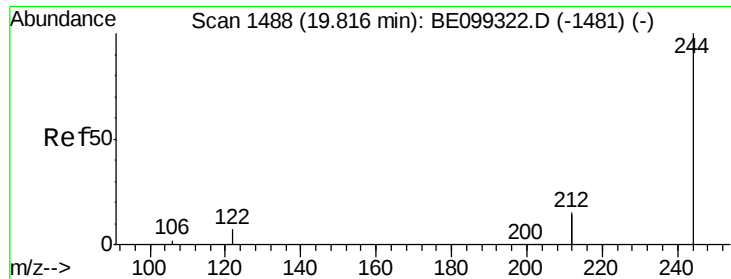
Tot Ion:240 Resp: 39350
Ion Ratio Lower Upper
240 100
120 4.6 2.2 3.2#
236 28.4 20.2 30.4



#28
Pyrene
Concen: 1.240 ng
RT: 19.61 min Scan# 1452
Delta R.T. 0.00 min
Lab File: BE099359.D
Acq: 25 Apr 2019 13:48

Tgt Ion:202 Resp: 143781
Ion Ratio Lower Upper
202 100
200 19.8 15.7 23.5
203 21.2 13.7 20.5#





#29

Terphenyl-d14

Concen: 0.266 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

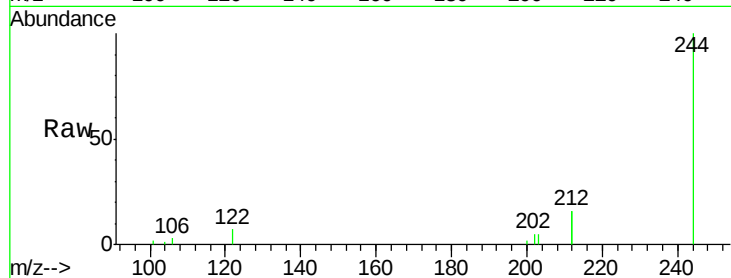
Tot Ion:244 Resp: 20616

Ion Ratio Lower Upper

244 100

212 32.5 22.6 33.8

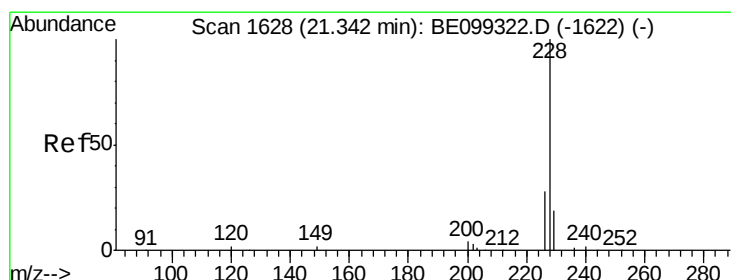
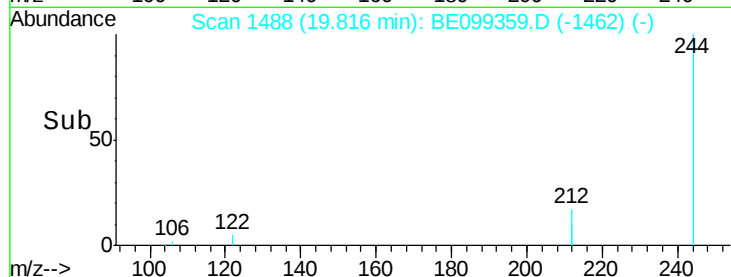
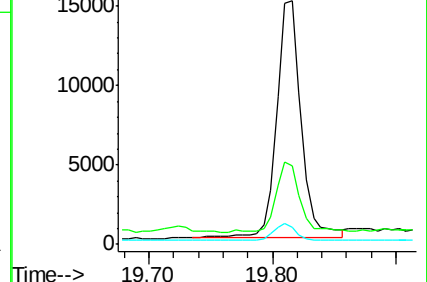
122 6.8 4.6 7.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.624 ng

RT: 21.34 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

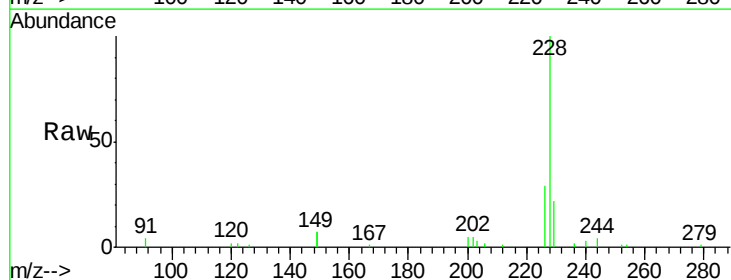
Tgt Ion:228 Resp: 72167

Ion Ratio Lower Upper

228 100

226 29.4 22.0 33.0

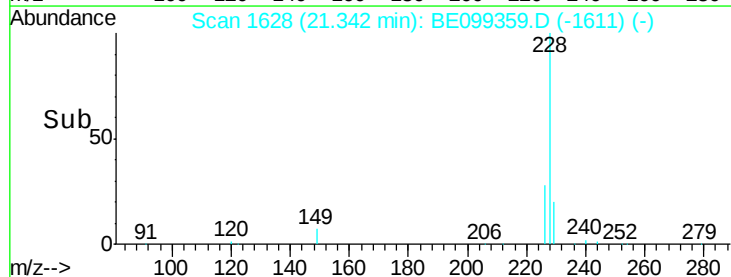
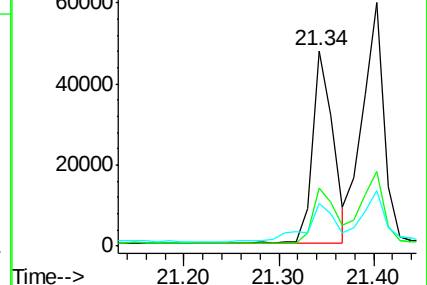
229 22.1 15.8 23.8

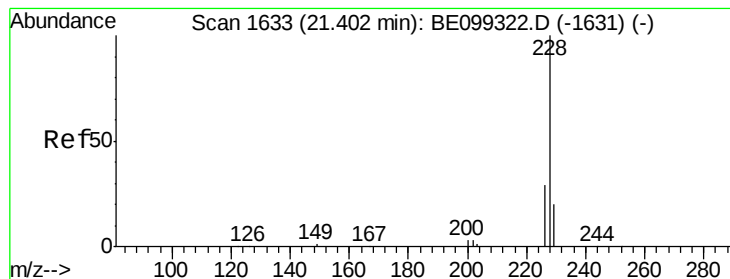


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.752 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

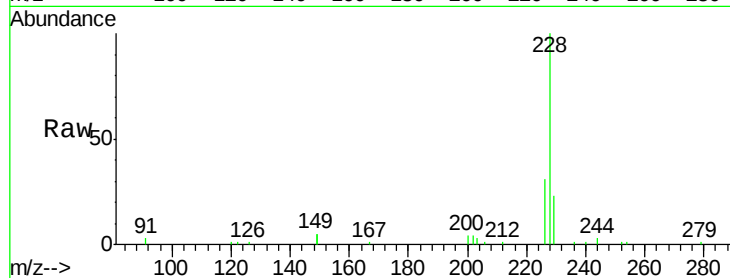
Tot Ion:228 Resp: 92613

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.2

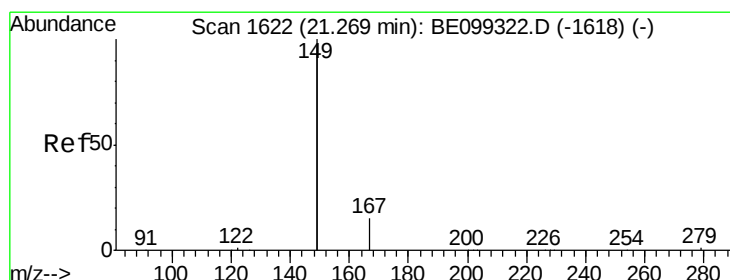
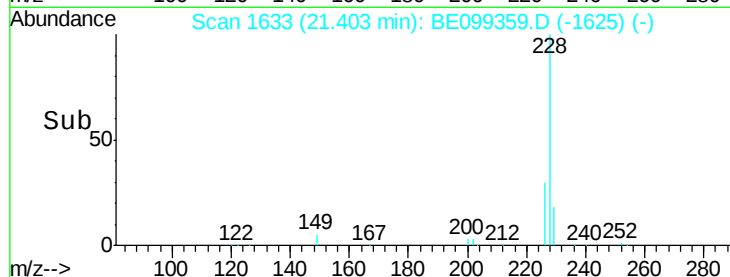
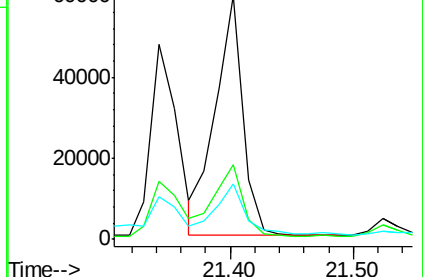
229 22.6 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.958 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

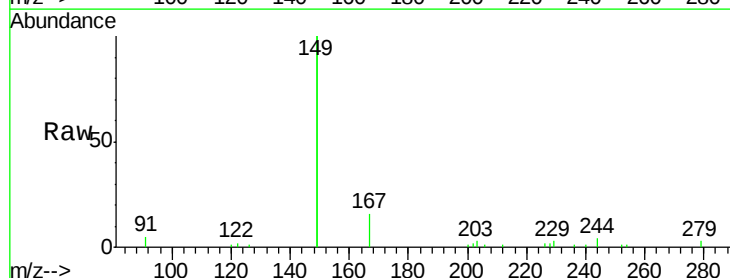
Tgt Ion:149 Resp: 100845

Ion Ratio Lower Upper

149 100

167 7.2 6.0 9.0

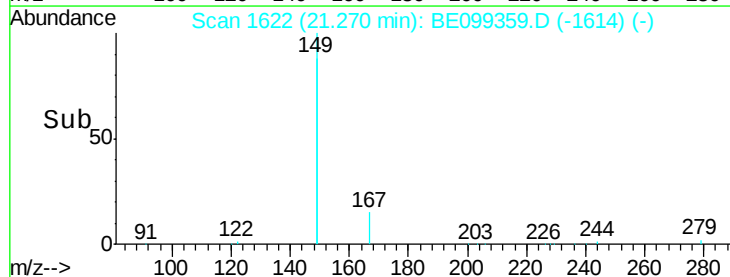
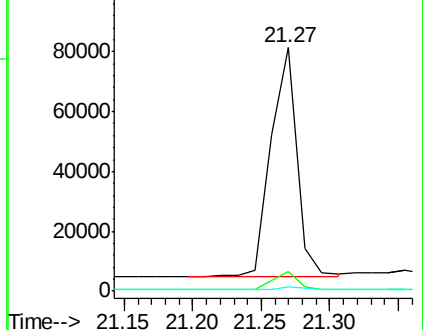
279 1.4 1.1 1.7

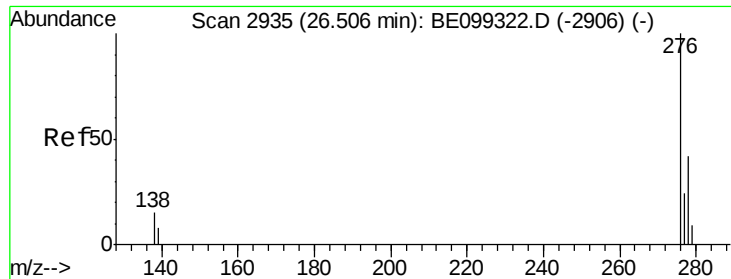


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.455 ng

RT: 26.50 min Scan# 2934

Delta R.T. 0.01 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

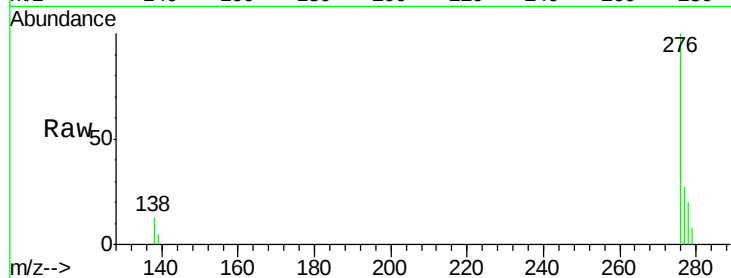
Tot Ion:276 Resp: 55370

Ion Ratio Lower Upper

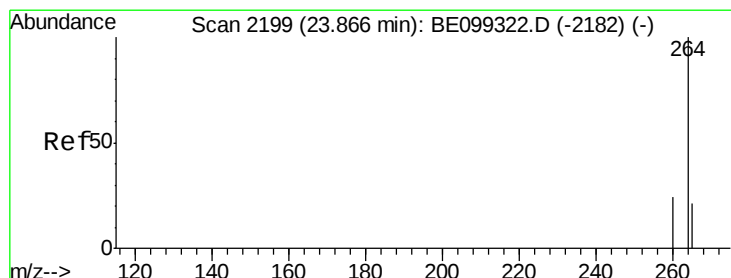
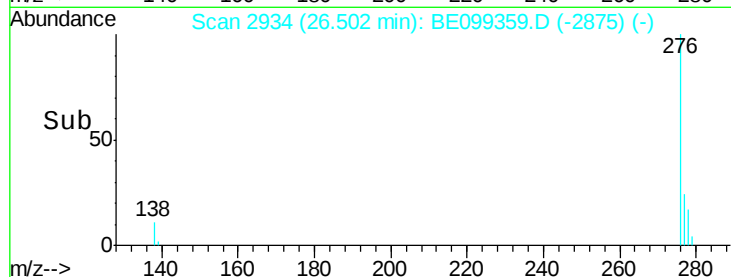
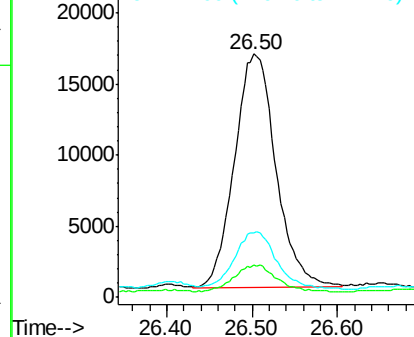
276 100

138 12.3 12.7 19.1#

277 24.7 19.6 29.4



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.86 min Scan# 2198

Delta R.T. 0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

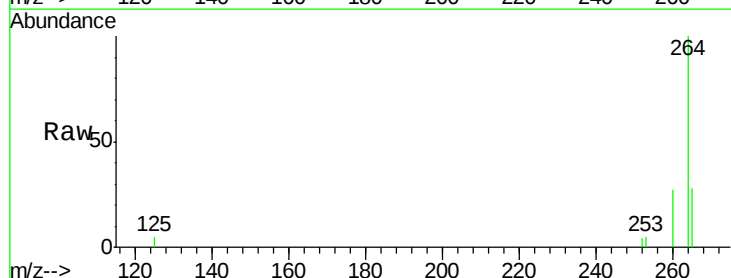
Tgt Ion:264 Resp: 44134

Ion Ratio Lower Upper

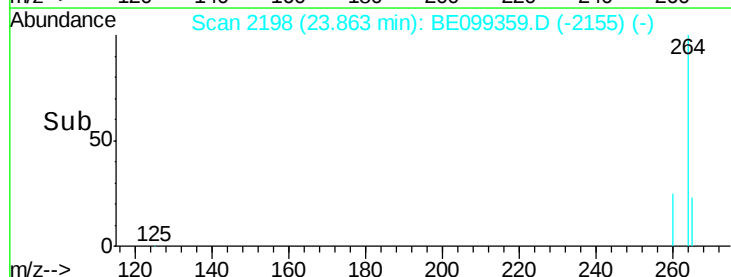
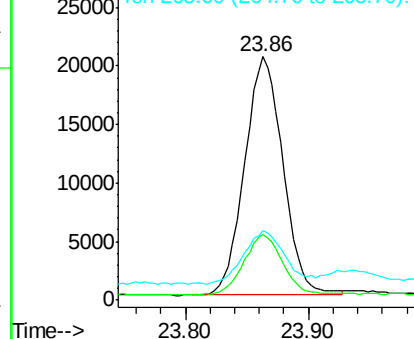
264 100

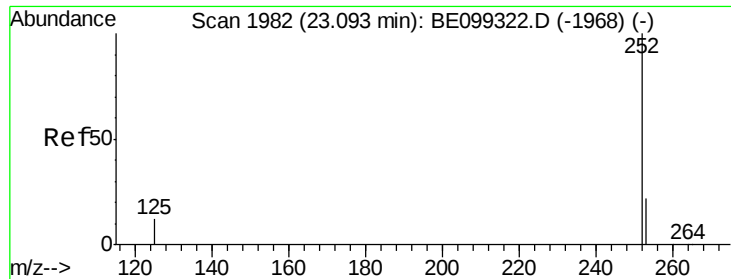
260 26.9 20.1 30.1

265 28.4 19.9 29.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.837 ng

RT: 23.09 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

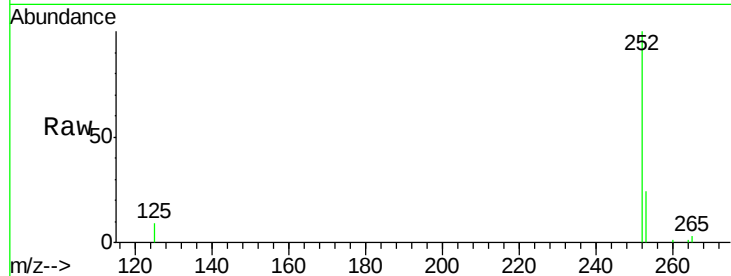
Tot Ion:252 Resp: 113088

Ion Ratio Lower Upper

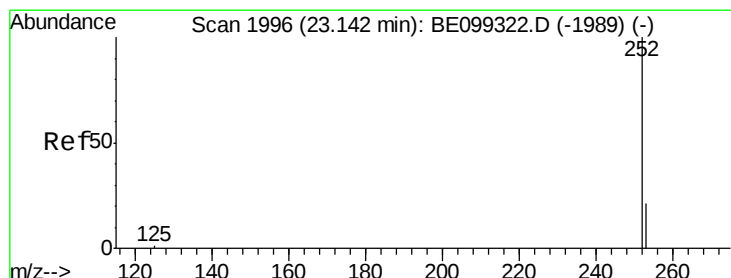
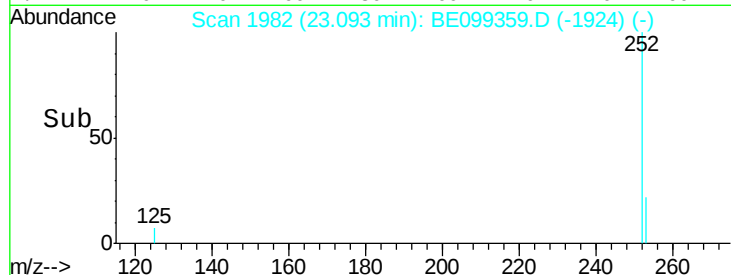
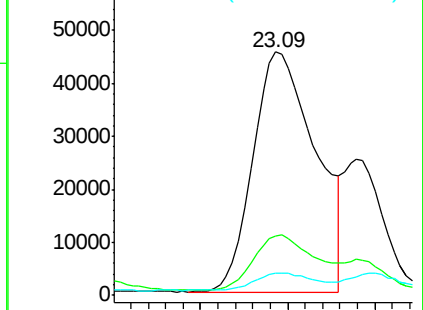
252 100

253 24.5 17.3 25.9

125 9.0 5.8 8.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.840 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.04 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

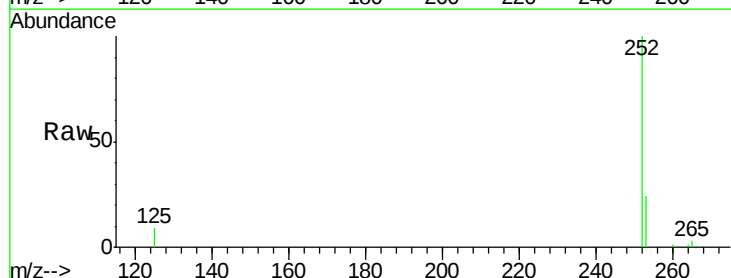
Tgt Ion:252 Resp: 113088

Ion Ratio Lower Upper

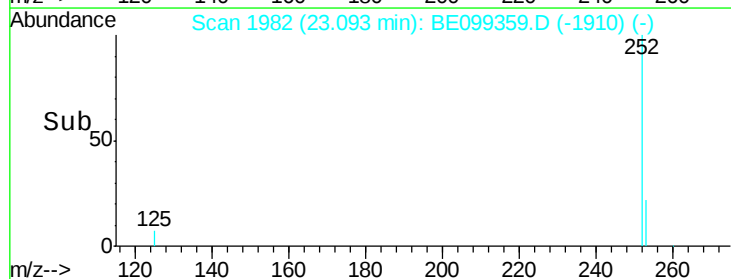
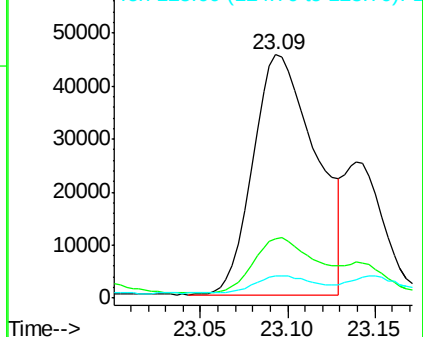
252 100

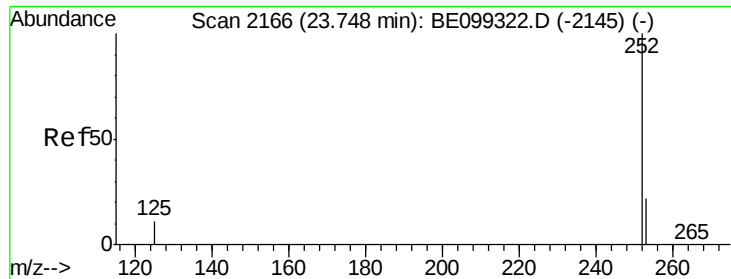
253 24.5 18.4 27.6

125 9.0 5.4 8.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.603 ng

RT: 23.75 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219

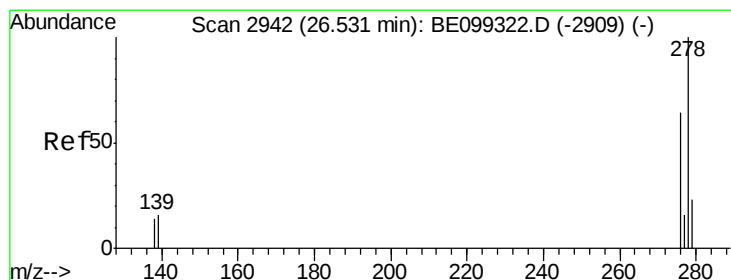
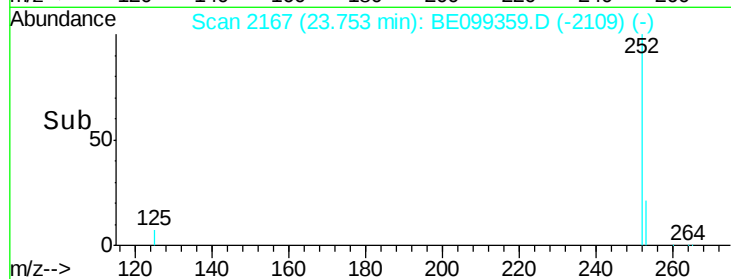
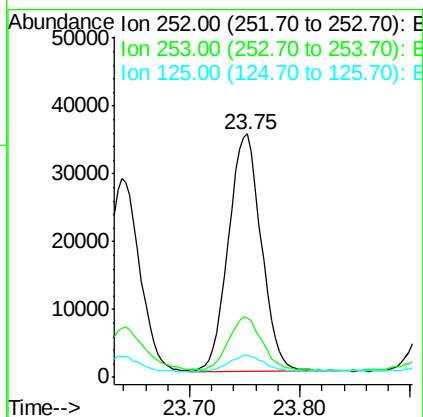
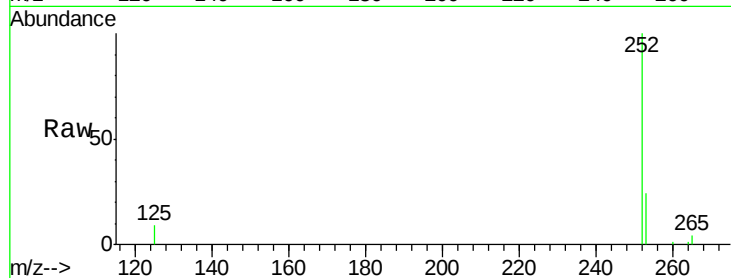
Tot Ion:252 Resp: 72999

Ion Ratio Lower Upper

252 100

253 24.5 17.6 26.4

125 9.1 6.5 9.7



#38

Dibenzo(a,h)anthracene

Concen: 0.106 ng

RT: 26.52 min Scan# 2939

Delta R.T. -0.00 min

Lab File: BE099359.D

Acq: 25 Apr 2019 13:48

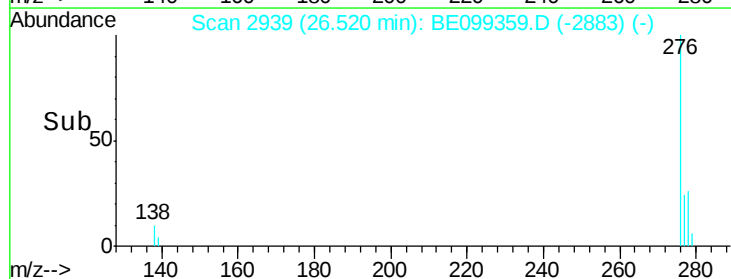
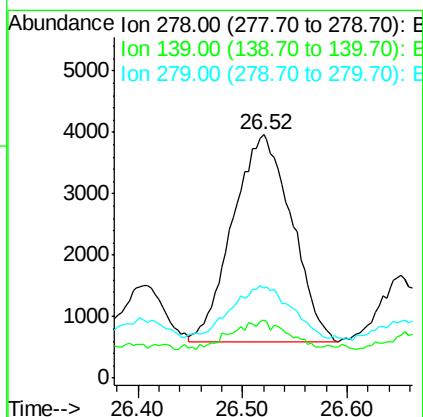
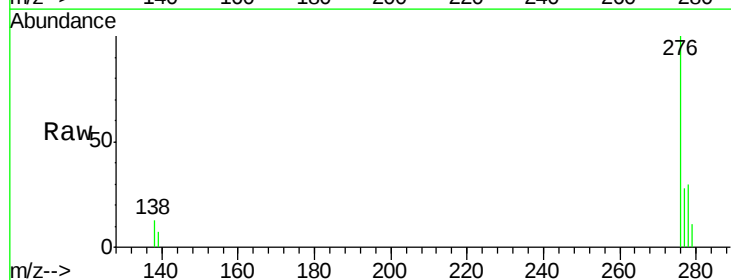
Tgt Ion:278 Resp: 13166

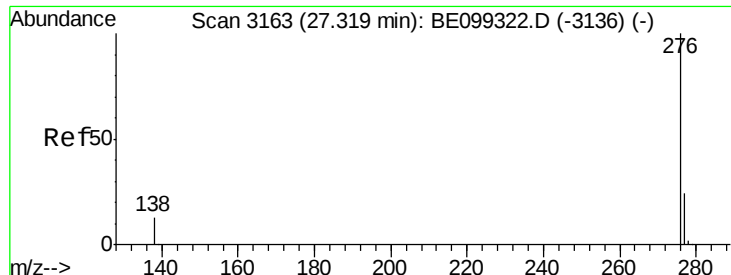
Ion Ratio Lower Upper

278 100

139 23.7 8.5 12.7#

279 37.0 19.8 29.8#





#39

Benzo(a,h,i)perylene

Concen: 0.454 ng

RT: 27.32 min Scan# 3164

Delta R.T. 0.02 min

Lab File: BE099359.D

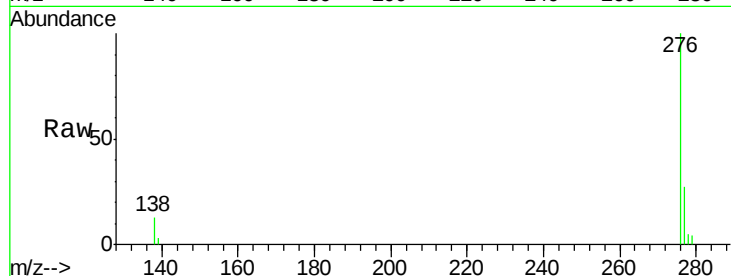
Acq: 25 Apr 2019 13:48

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW031-042219



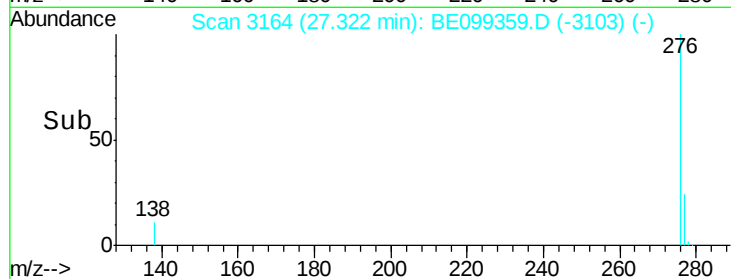
Tot Ion: 276 Resp: 56912

Ion Ratio Lower Upper

276 100

277 27.4 20.0 30.0

138 13.1 11.1 16.7



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

