

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050319\
 Data File : BE099539.D
 Acq On : 3 May 2019 20:42
 Operator : JU/SJ
 Sample : K2568-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW029-042219

Quant Time: May 03 23:37:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	2428	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9429	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7664	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	21509	0.40	ng	0.01
27) Chrysene-d12	21.38	240	26120	0.40	ng	0.01
34) Perylene-d12	23.89	264	31017	0.40	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2024	0.30	ng	0.00
5) Phenol-d6	6.98	99	3052	0.34	ng	0.00
8) Nitrobenzene-d5	8.96	82	2549	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	4740	0.28	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	1643	0.34	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	7147	0.24	ng	0.00
25) Fluoranthene-d10	19.23	212	73409	0.25	ng	0.00
29) Terphenyl-d14	19.82	244	16227	0.34	ng	0.00

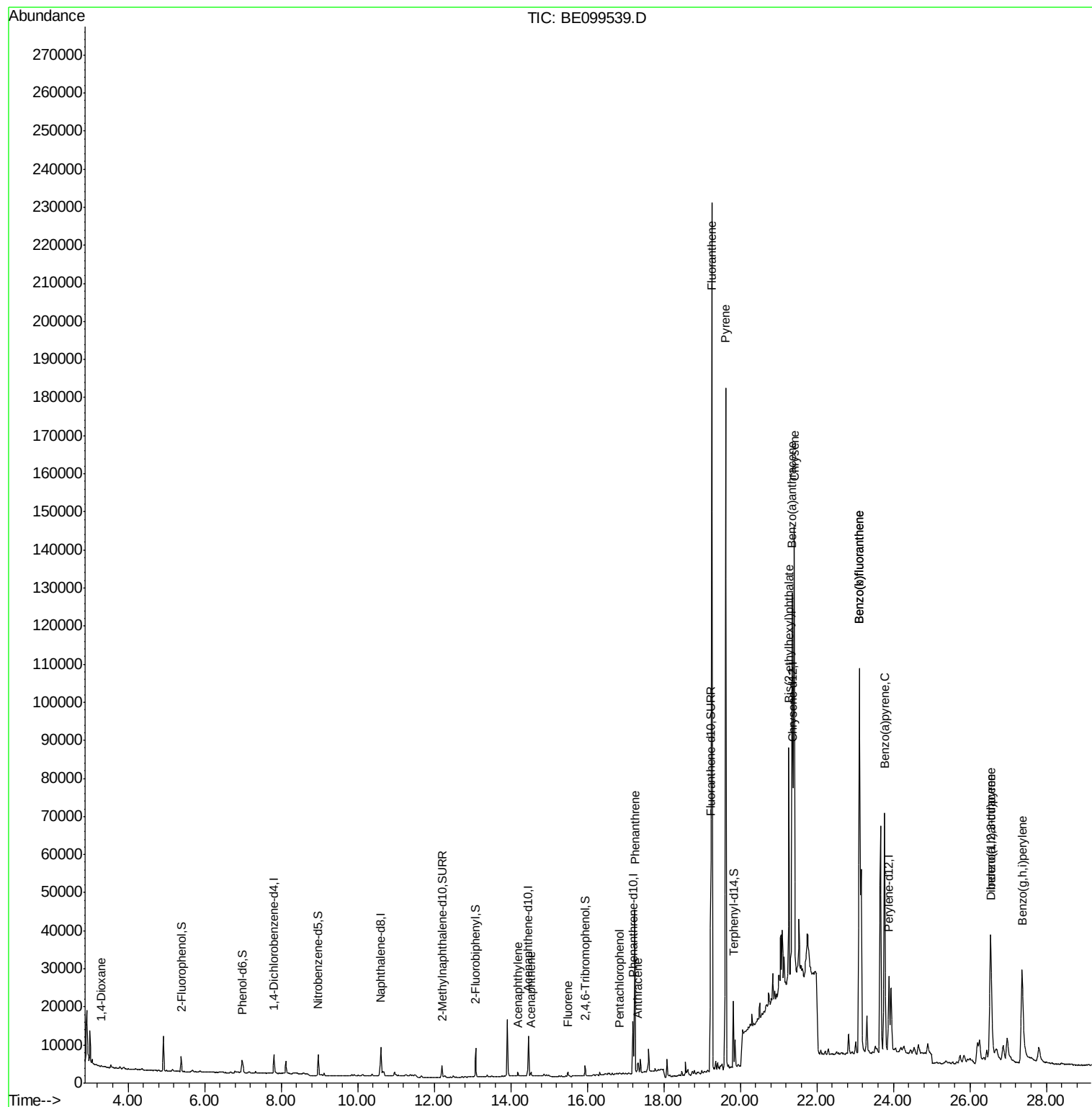
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.29	88	95	0.028	ng	# 1
16) Acenaphthylene	14.18	152	1499	0.040	ng	# 90
17) Acenaphthene	14.53	154	504	0.024	ng	98
18) Fluorene	15.50	166	1323	0.042	ng	# 96
22) Pentachlorophenol	16.85	266	158	0.238	ng	# 71
23) Phenanthrene	17.24	178	45002	0.811	ng	99
24) Anthracene	17.34	178	3180	0.060	ng	# 86
26) Fluoranthene	19.26	202	211563	2.545	ng	100
28) Pyrene	19.62	202	176487	2.592	ng	# 95
30) Benzo(a)anthracene	21.35	228	91624	1.101	ng	95
31) Chrysene	21.41	228	132750	1.630	ng	97
32) Bis(2-ethylhexyl)phthalate	21.27	149	63584	0.470	ng	99
33) Indeno(1,2,3-cd)pyrene	26.54	276	82725	0.859	ng	# 93
35) Benzo(b)fluoranthene	23.11	252	187056	2.091	ng	96
36) Benzo(k)fluoranthene	23.11	252	187056	2.169	ng	# 96
37) Benzo(a)pyrene	23.77	252	101889	1.205	ng	97
38) Dibenzo(a,h)anthracene	26.56	278	16210	0.187	ng	# 67
39) Benzo(a,h,i)perylene	27.37	276	76935	0.888	ng	95

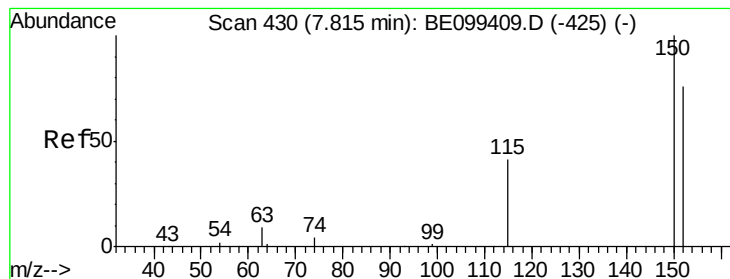
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Apr 29 18:36:43 2019
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

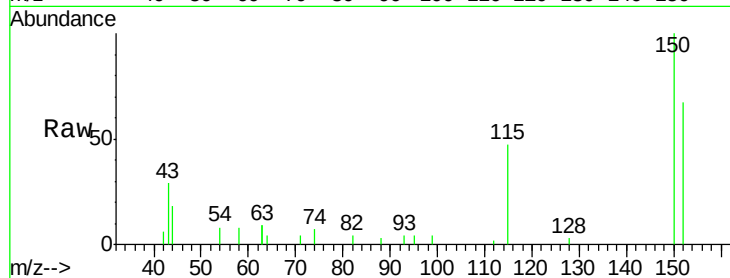
Tot Ion:152 Resp: 2428

Ion Ratio Lower Upper

152 100

150 149.9 104.8 157.2

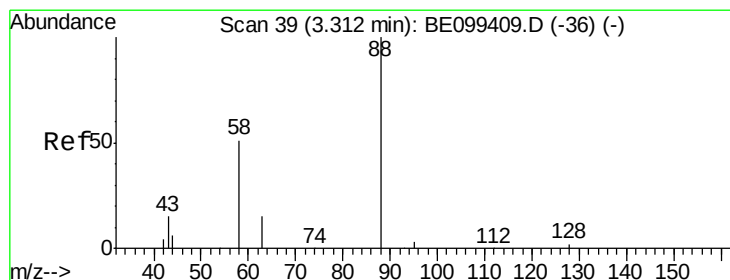
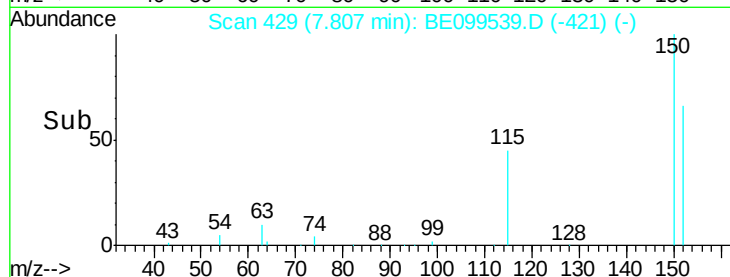
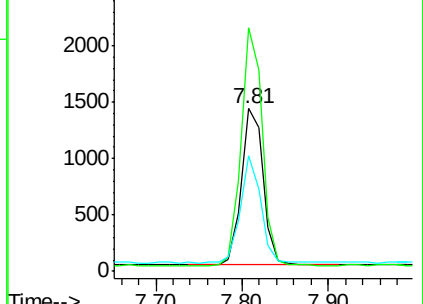
115 71.0 46.6 69.8#



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



#2

1,4-Dioxane

Concen: 0.028 ng

RT: 3.29 min Scan# 37

Delta R.T. -0.02 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

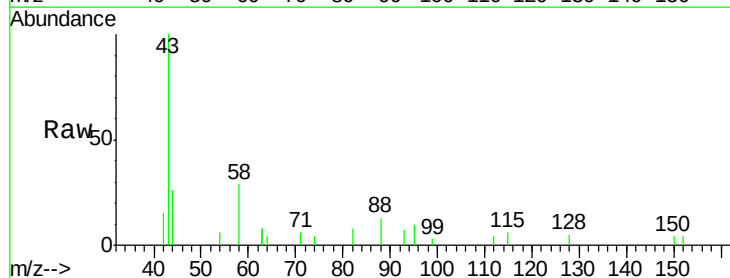
Tgt Ion: 88 Resp: 95

Ion Ratio Lower Upper

88 100

58 74.7 51.0 76.6

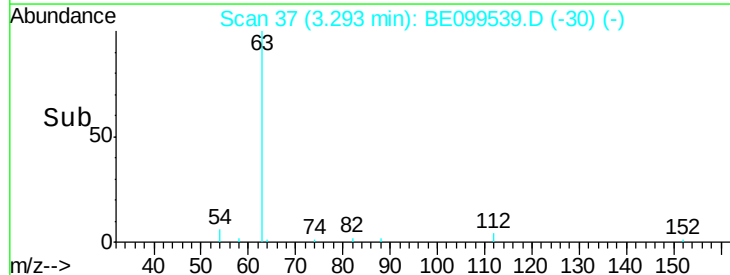
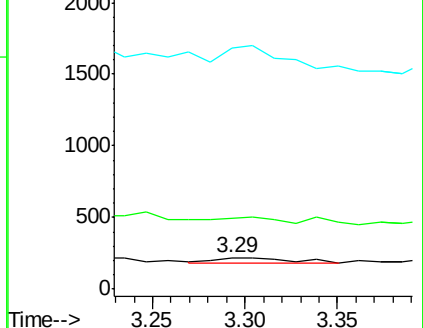
43 422.1 20.6 30.8#

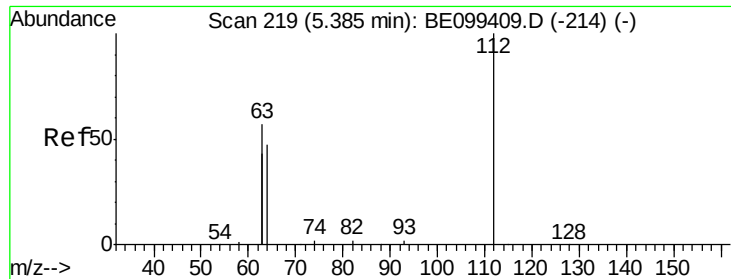


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.301 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

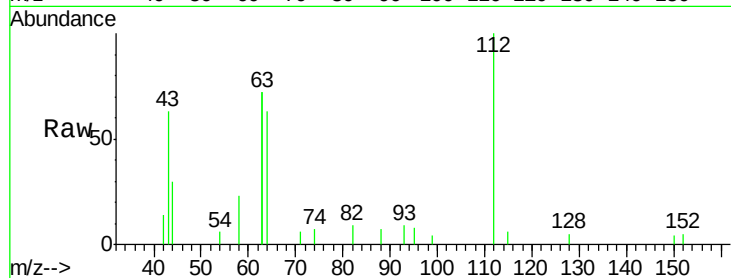
Tot Ion:112 Resp: 2024

Ion Ratio Lower Upper

112 100

64 59.7 47.4 71.0

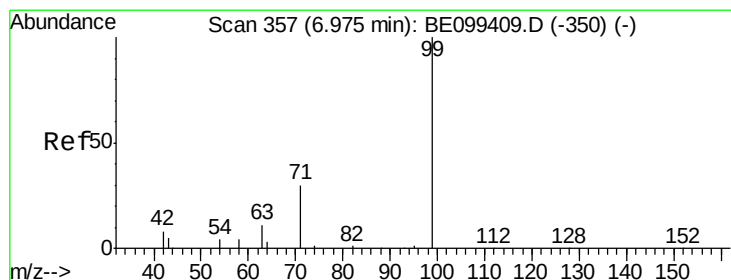
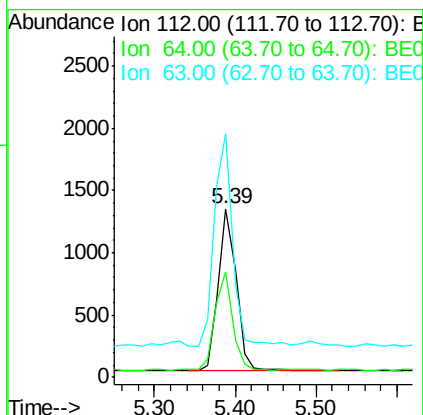
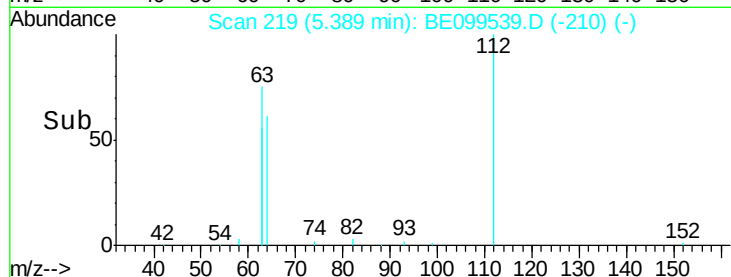
63 132.5 104.3 156.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.342 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

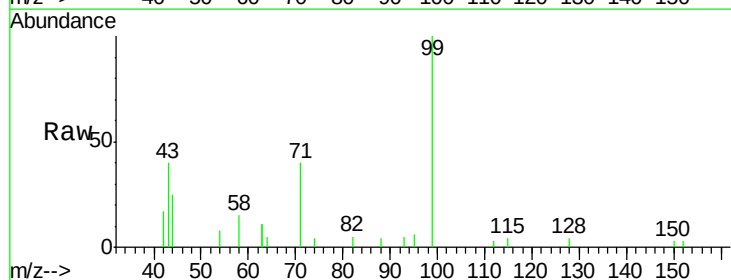
Tgt Ion: 99 Resp: 3052

Ion Ratio Lower Upper

99 100

42 20.8 14.9 22.3

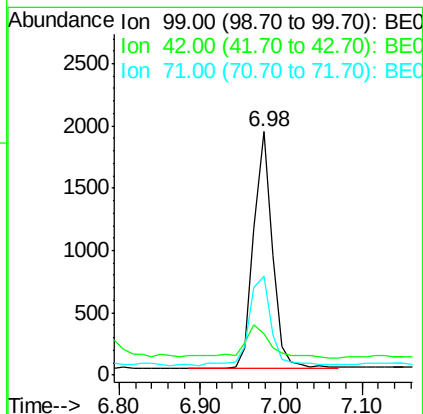
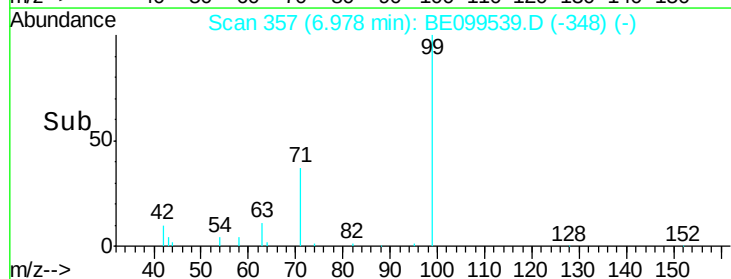
71 44.0 33.0 49.6

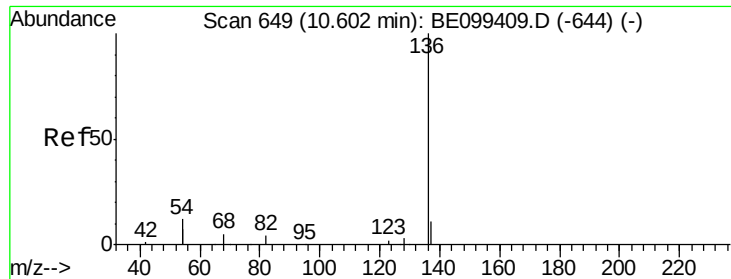


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

Tot Ion:136 Resp: 9429

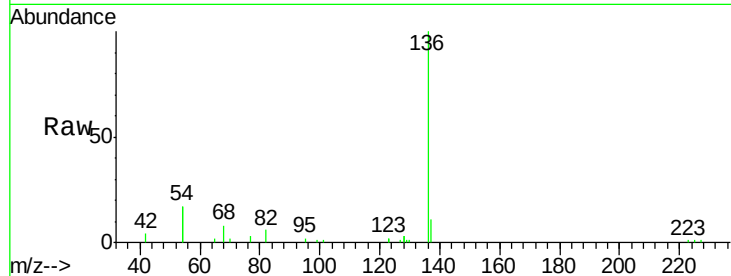
Ion Ratio Lower Upper

136 100

137 11.2 9.8 14.8

54 33.4 18.5 27.7#

68 7.7 4.7 7.1#

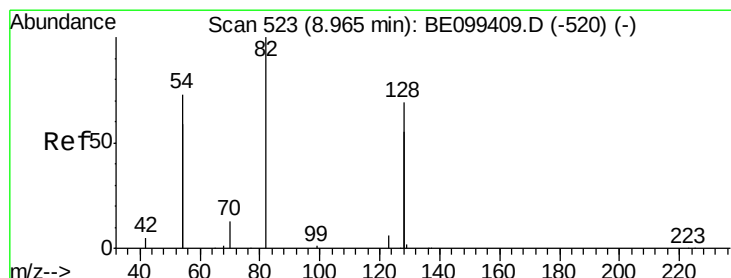
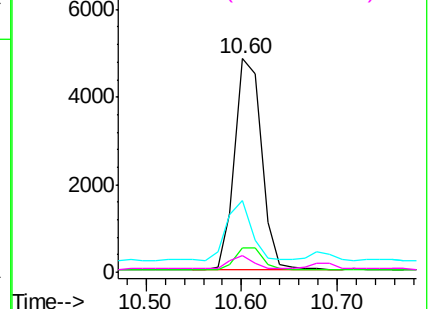
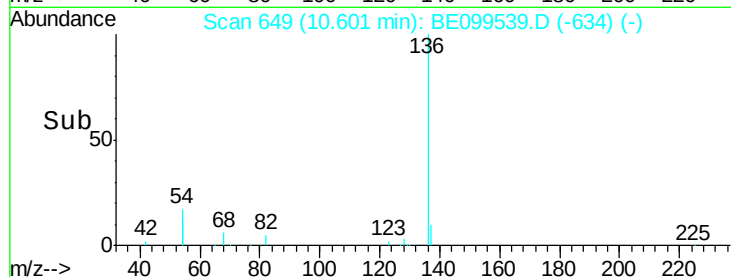


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.288 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

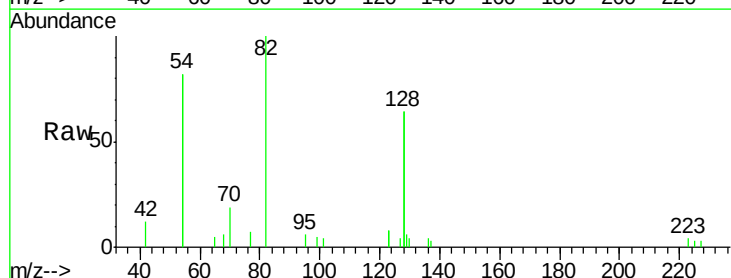
Tgt Ion: 82 Resp: 2549

Ion Ratio Lower Upper

82 100

128 127.8 107.0 160.4

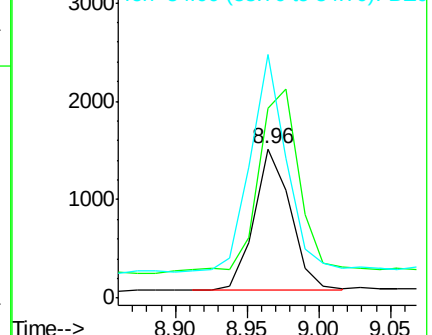
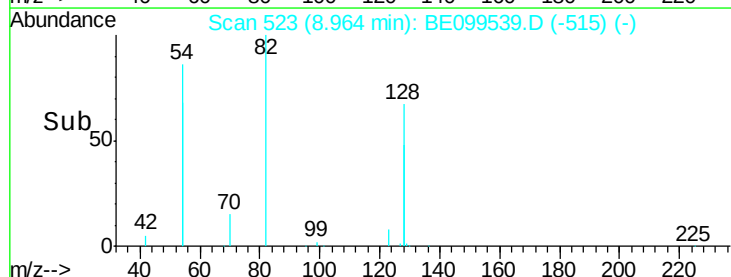
54 163.5 113.1 169.7

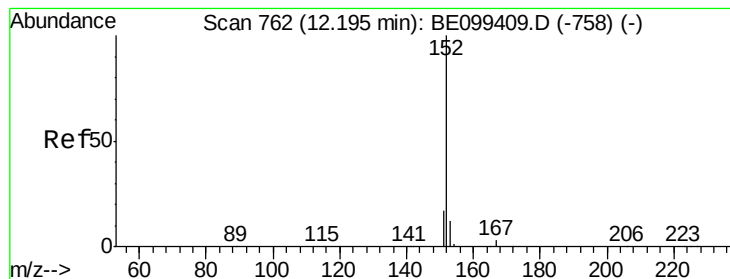


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.279 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

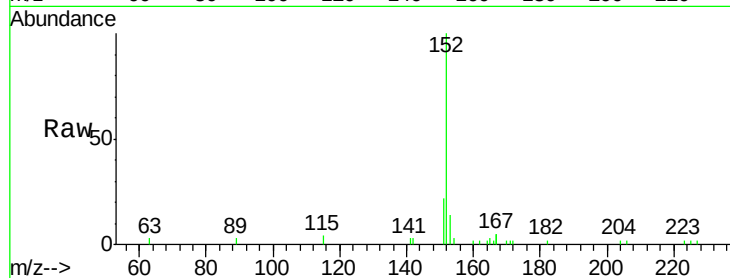
EXT-025-SW029-042219

Tot Ion:152 Resp: 4740

Ion Ratio Lower Upper

152 100

151 19.9 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.21

2500

2000

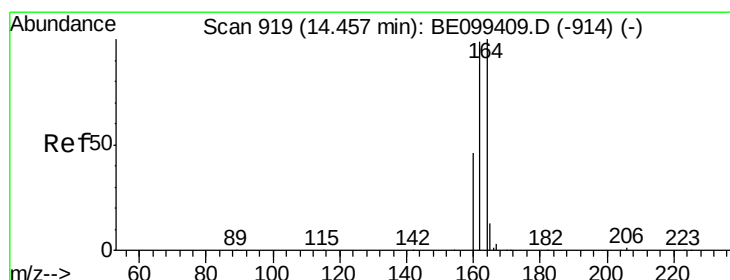
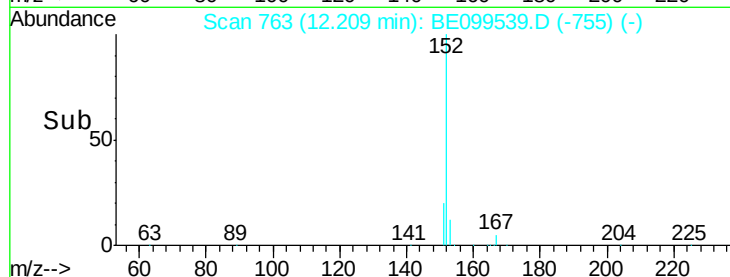
1500

1000

500

0

Time--> 12.10 12.20 12.30 12.40



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

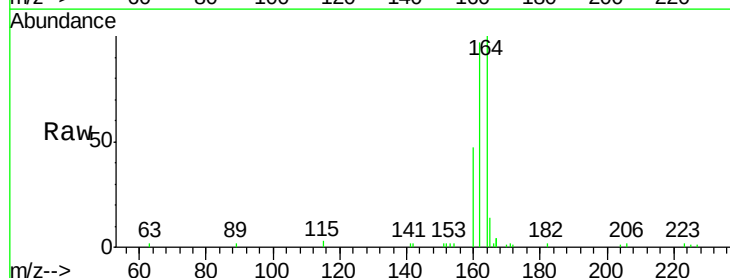
Tgt Ion:164 Resp: 7664

Ion Ratio Lower Upper

164 100

162 97.3 79.0 118.4

160 46.9 37.0 55.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.46

5000

4000

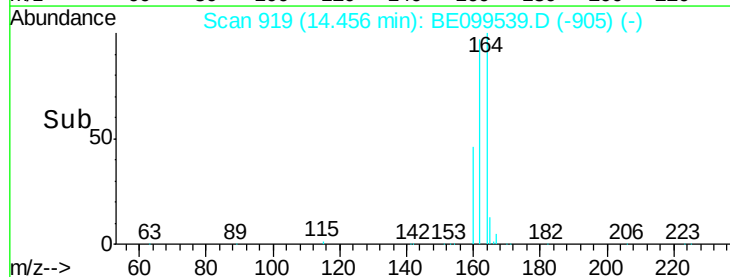
3000

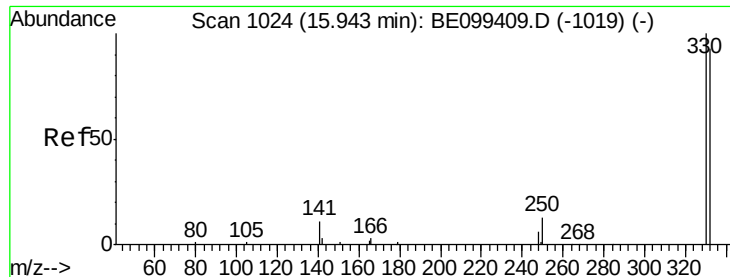
2000

1000

0

Time--> 14.30 14.40 14.50 14.60





#14

2,4,6-Tribromophenol

Concen: 0.340 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

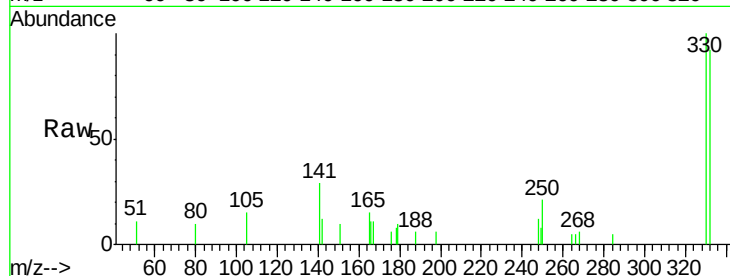
Tot Ion:330 Resp: 1643

Ion Ratio Lower Upper

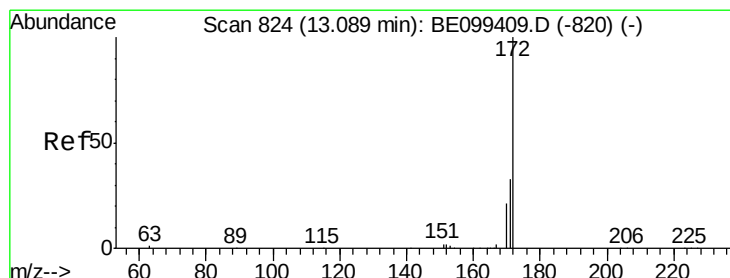
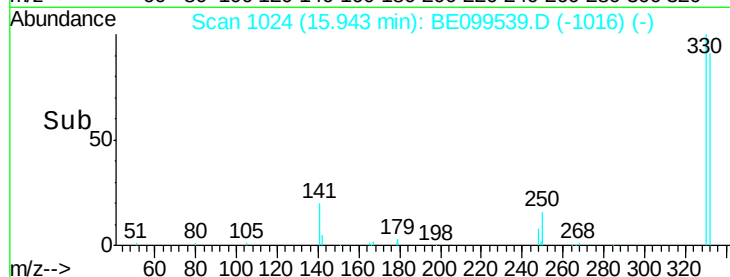
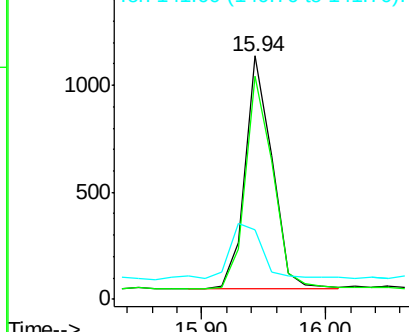
330 100

332 93.4 71.5 107.3

141 30.7 24.0 36.0



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#15

2-Fluorobiphenyl

Concen: 0.244 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

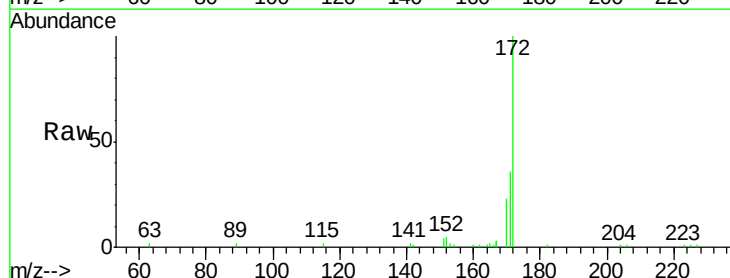
Tgt Ion:172 Resp: 7147

Ion Ratio Lower Upper

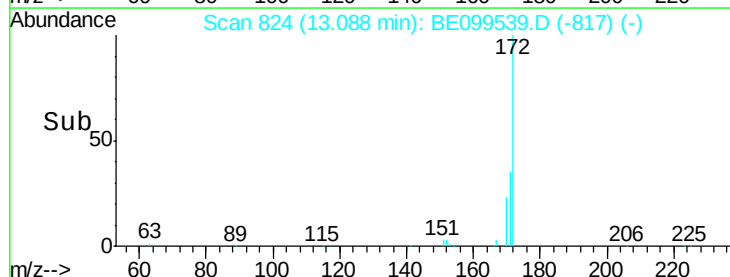
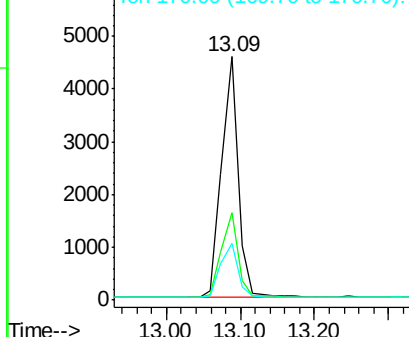
172 100

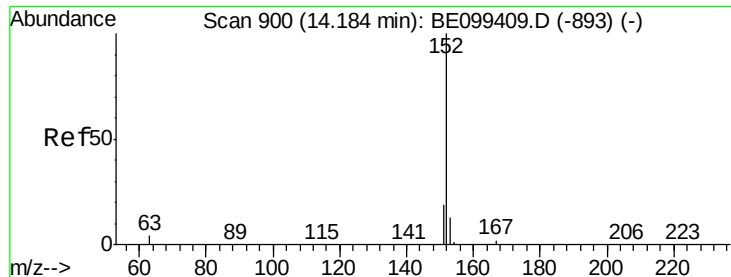
171 35.8 26.6 39.8

170 23.4 17.0 25.6



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 0.040 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099539.D

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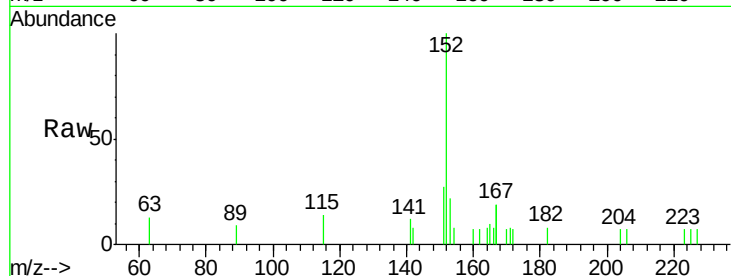
Tot Ion:152 Resp: 1499

Ion Ratio Lower Upper

152 100

151 23.7 15.4 23.2#

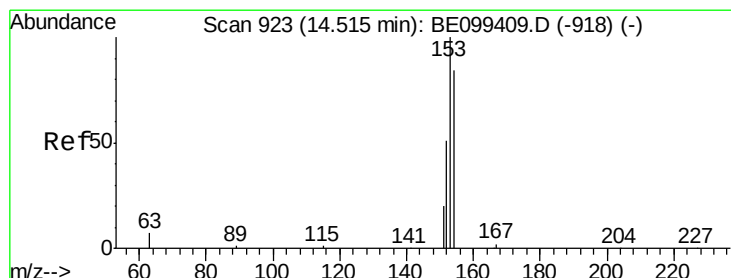
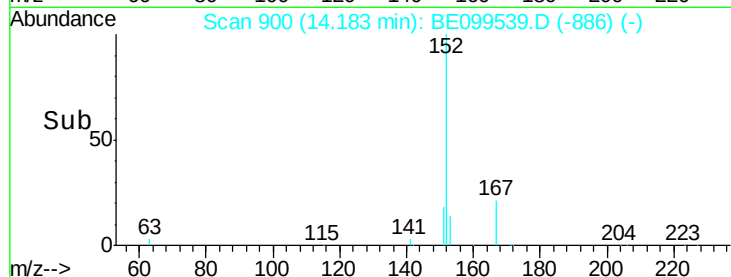
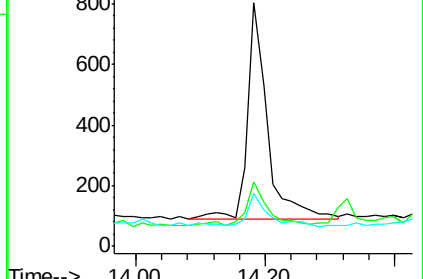
153 16.8 9.8 14.6#



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: 0.024 ng

RT: 14.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

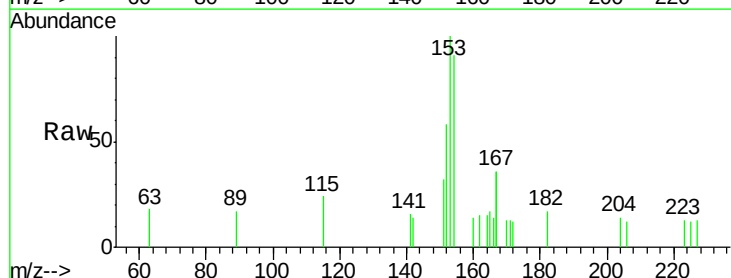
Tgt Ion:154 Resp: 504

Ion Ratio Lower Upper

154 100

153 118.3 92.6 138.8

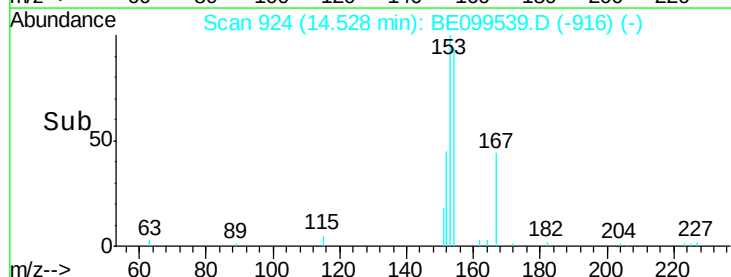
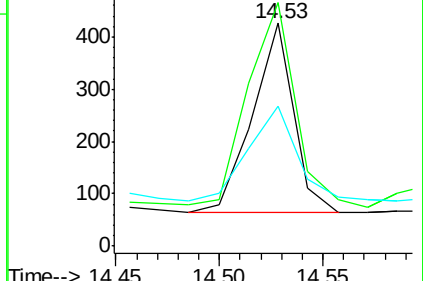
152 59.3 45.8 68.8

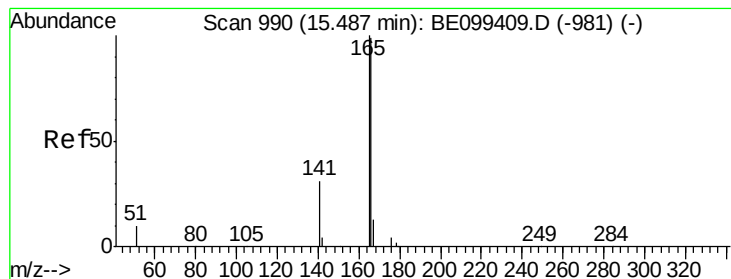


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.042 ng

RT: 15.50 min Scan# 991

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

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EXT-025-SW029-042219

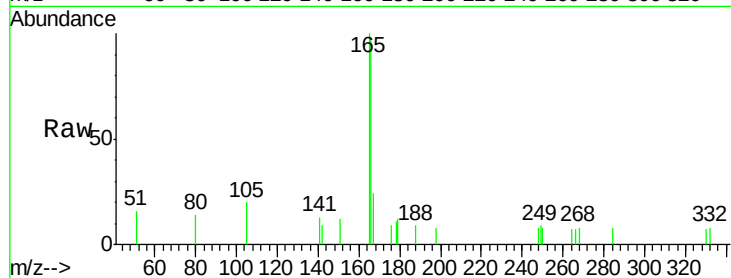
Tot Ion:166 Resp: 1323

Ion Ratio Lower Upper

166 100

165 97.4 80.3 120.5

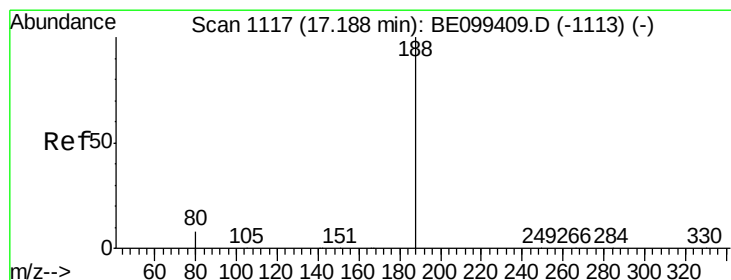
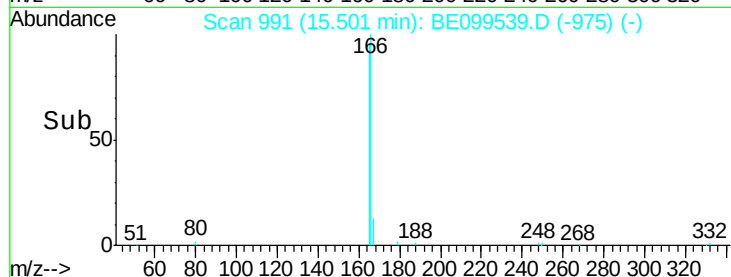
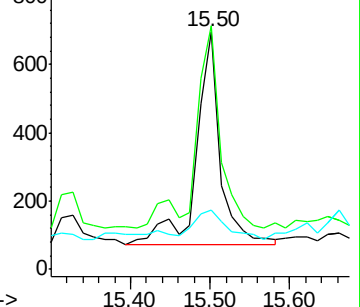
167 18.3 10.7 16.1#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

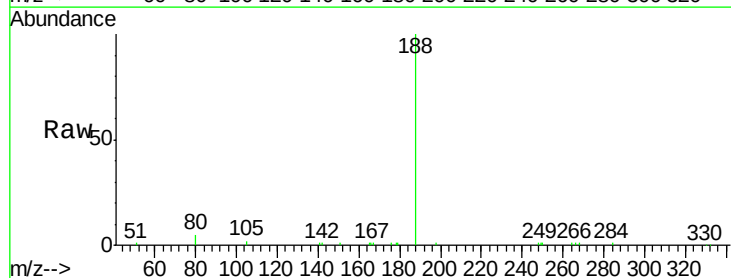
Tgt Ion:188 Resp: 21509

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

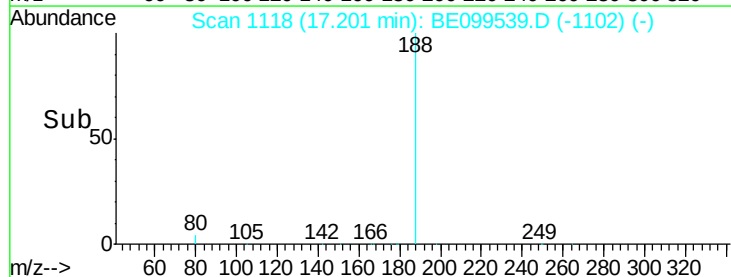
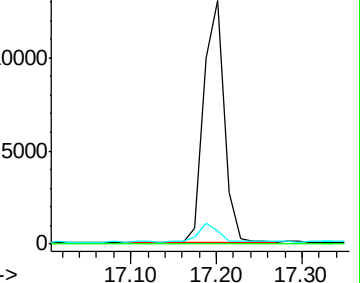
80 5.2 6.7 10.1#

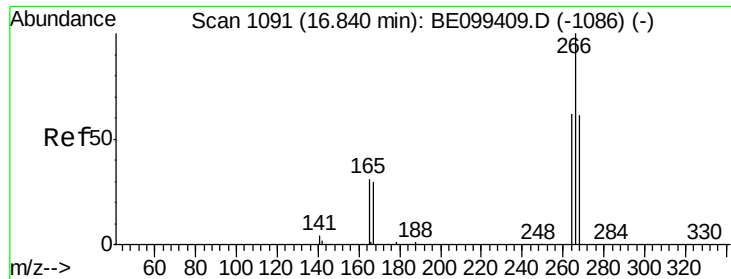


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.238 ng

RT: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

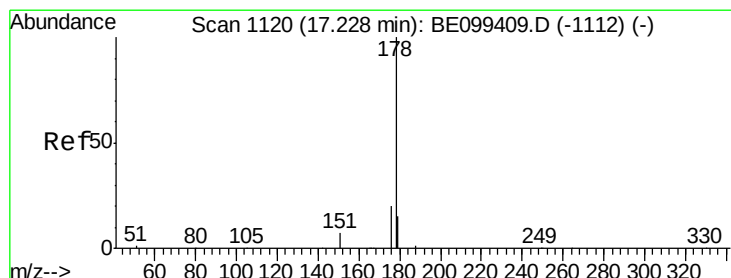
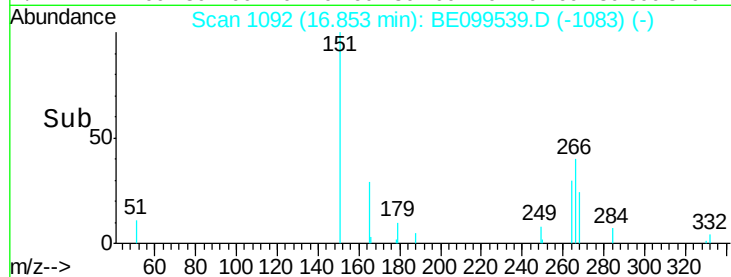
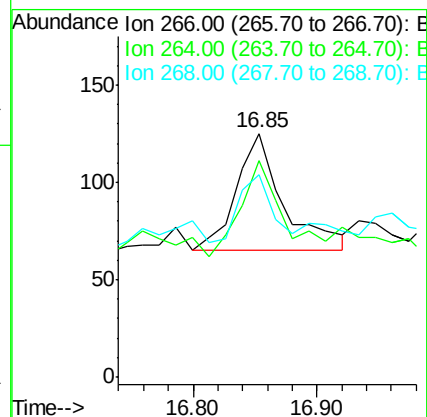
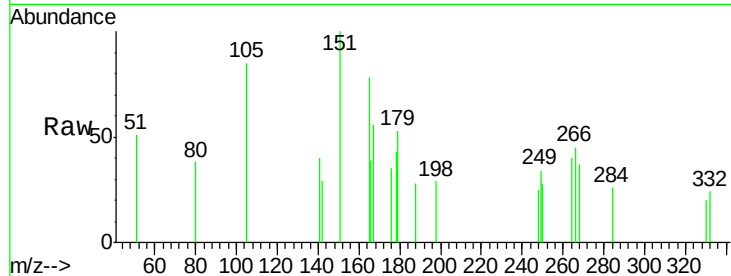
Tot Ion:266 Resp: 158

Ion Ratio Lower Upper

266 100

264 88.8 50.8 76.2#

268 83.2 50.5 75.7#



#23

Phenanthrene

Concen: 0.811 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

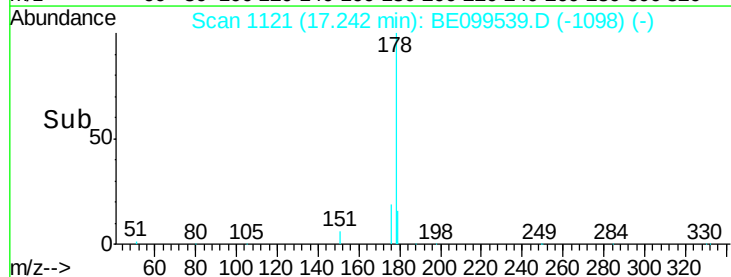
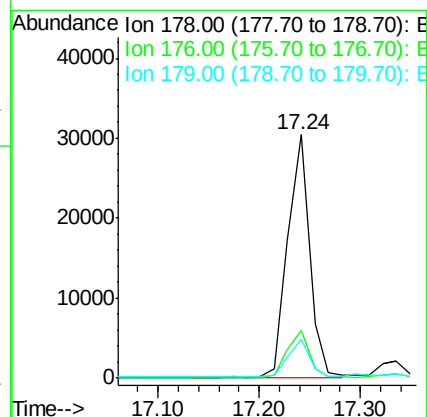
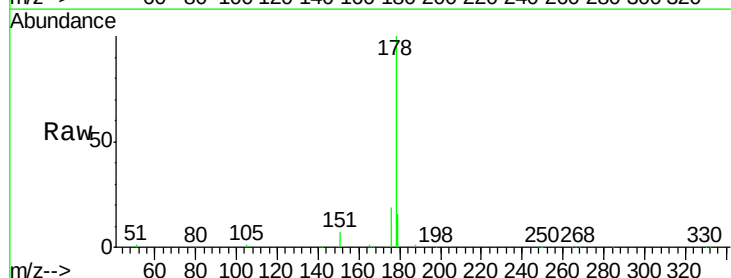
Tgt Ion:178 Resp: 45002

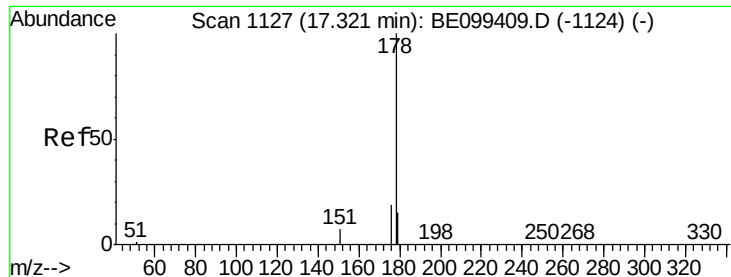
Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

179 15.7 12.0 18.0





#24

Anthracene

Concen: 0.060 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

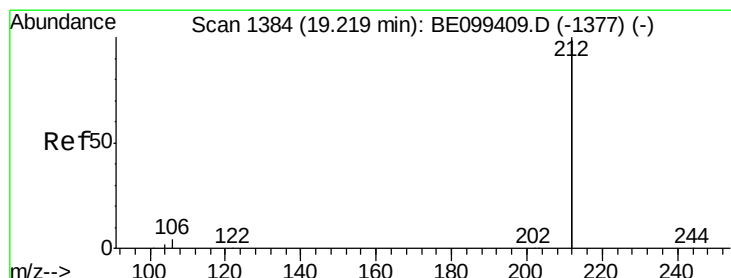
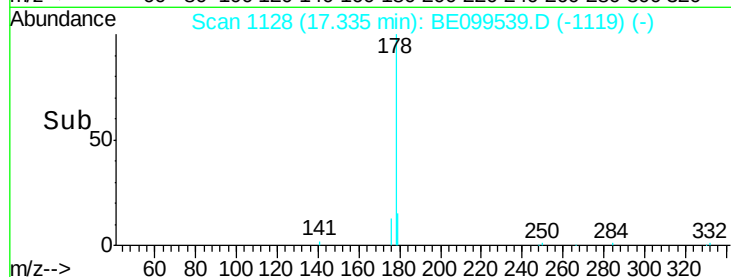
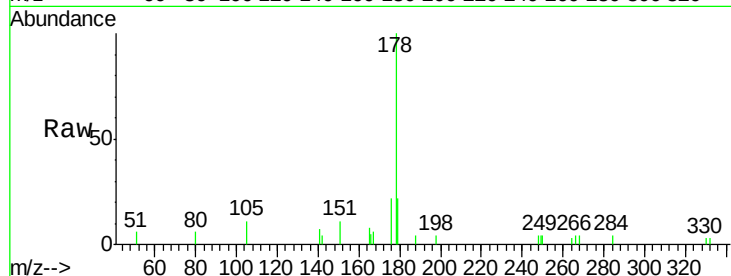
Tot Ion:178 Resp: 3180

Ion Ratio Lower Upper

178 100

176 22.4 14.9 22.3#

179 23.6 11.9 17.9#



#25

Fluoranthene-d10

Concen: 0.253 ng

RT: 19.23 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

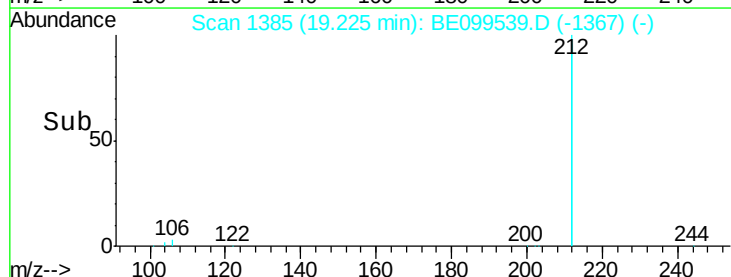
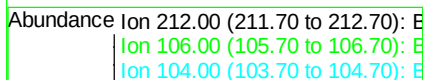
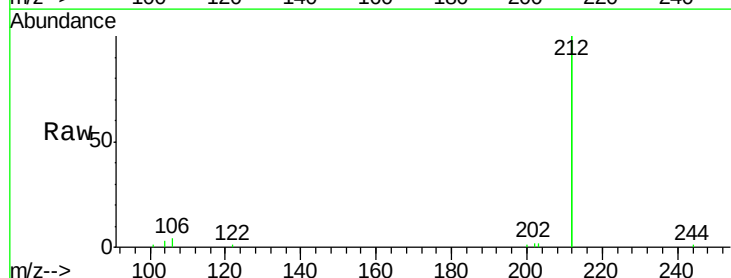
Tgt Ion:212 Resp: 73409

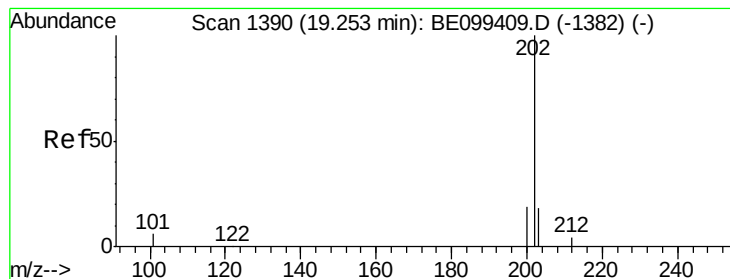
Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

104 1.2 0.9 1.3

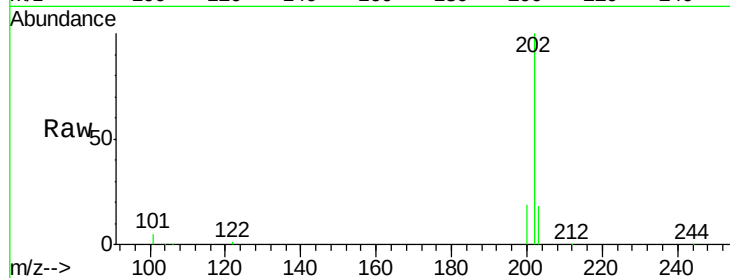




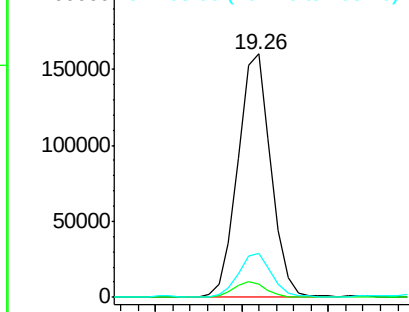
#26
Fluoranthene
Concen: 2.545 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.01 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW029-042219

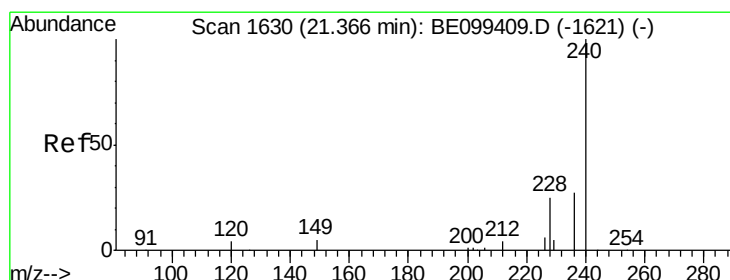
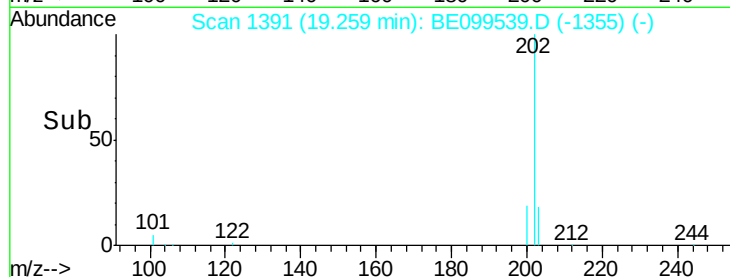
Tot Ion:202 Resp: 211563
Ion Ratio Lower Upper
202 100
101 6.2 5.4 8.0
203 17.4 13.9 20.9



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

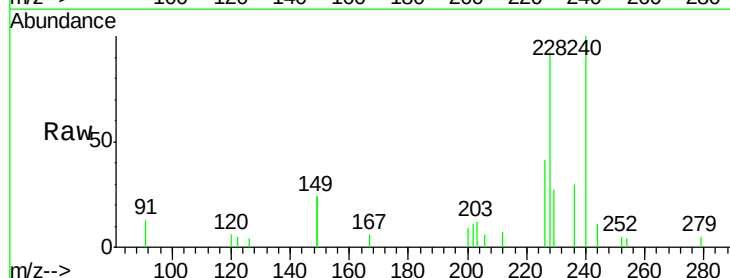


Time-->

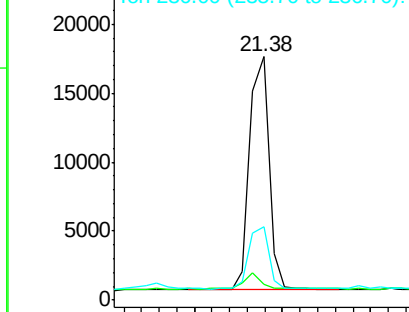


#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. 0.01 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

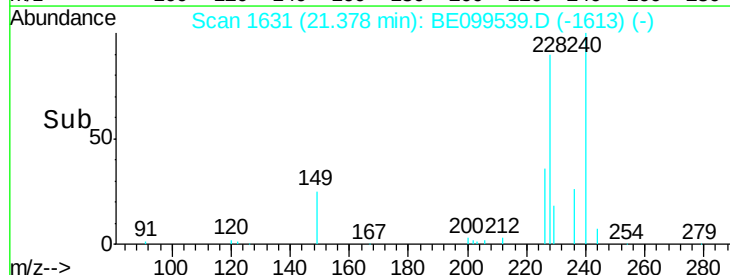
Tgt Ion:240 Resp: 26120
Ion Ratio Lower Upper
240 100
120 6.4 4.0 6.0#
236 30.3 22.0 33.0

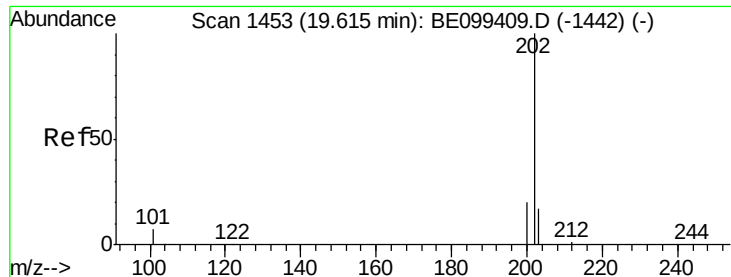


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





#28

Pvrene

Concen: 2.592 ng

RT: 19.62 min Scan# 1454

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

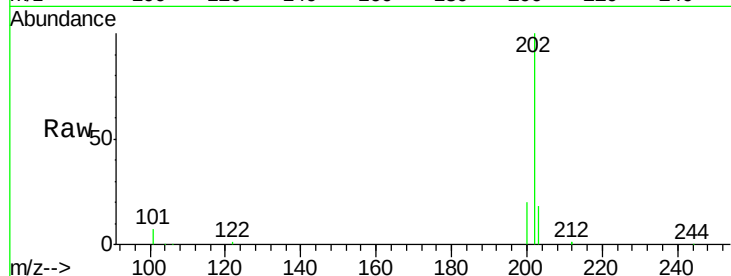
Tot Ion:202 Resp: 176487

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

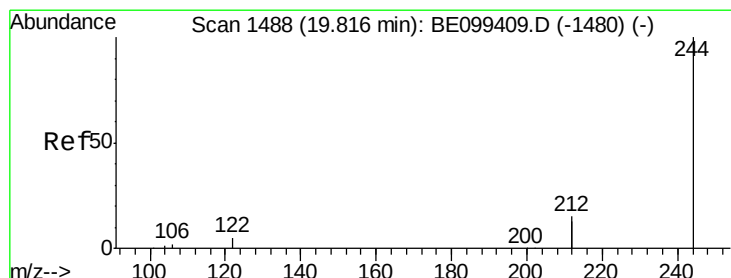
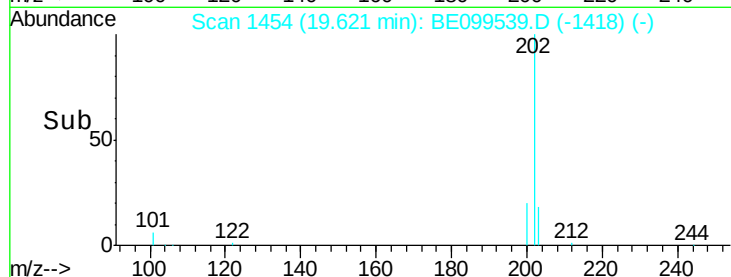
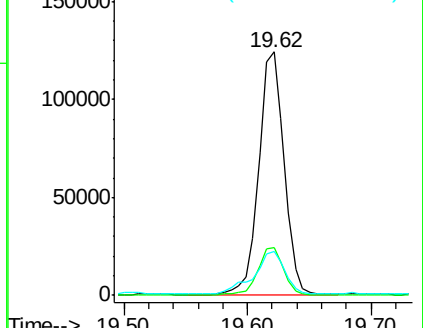
203 21.5 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.339 ng

RT: 19.82 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

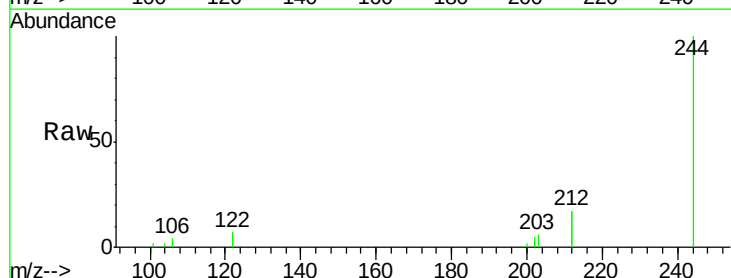
Tgt Ion:244 Resp: 16227

Ion Ratio Lower Upper

244 100

212 34.3 23.2 34.8

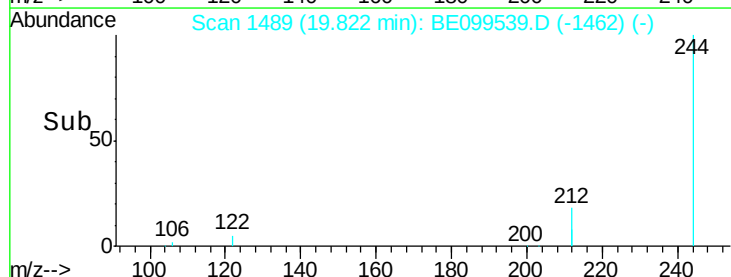
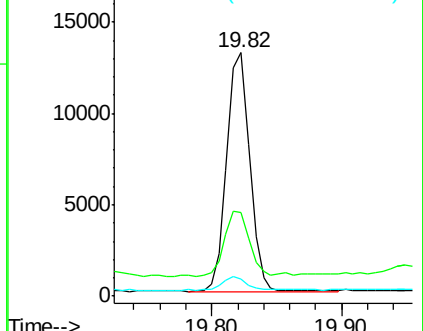
122 7.1 4.2 6.4#

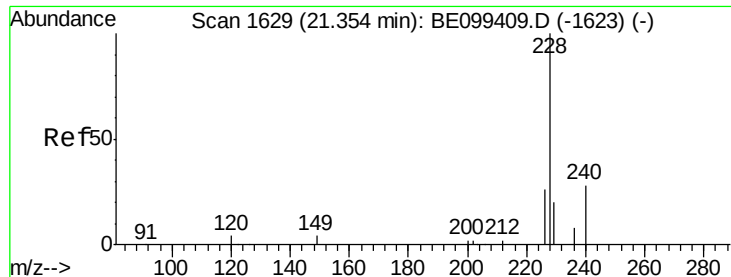


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 1.101 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

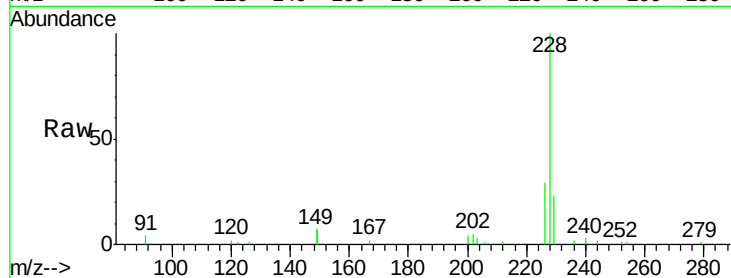
Tot Ion:228 Resp: 91624

Ion Ratio Lower Upper

228 100

226 29.1 21.0 31.6

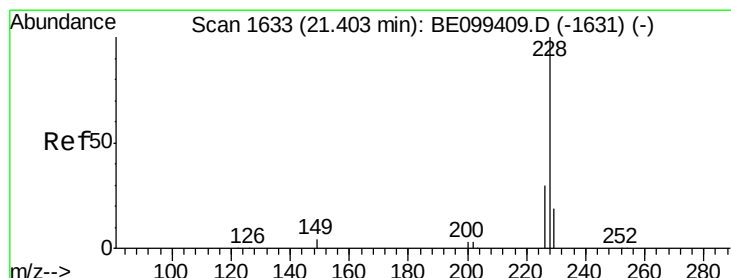
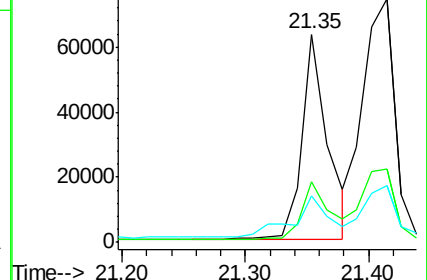
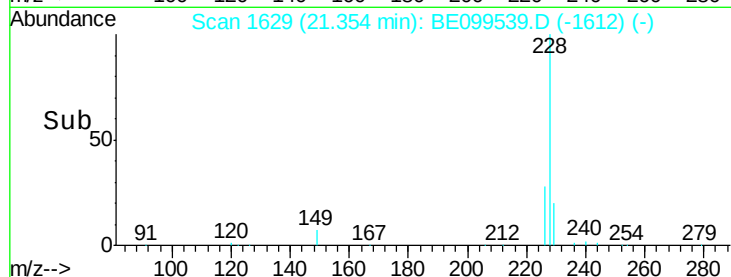
229 22.6 16.6 25.0



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: 1.630 ng

RT: 21.41 min Scan# 1634

Delta R.T. 0.01 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

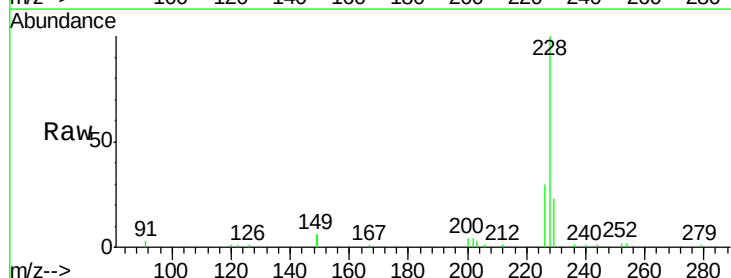
Tgt Ion:228 Resp: 132750

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

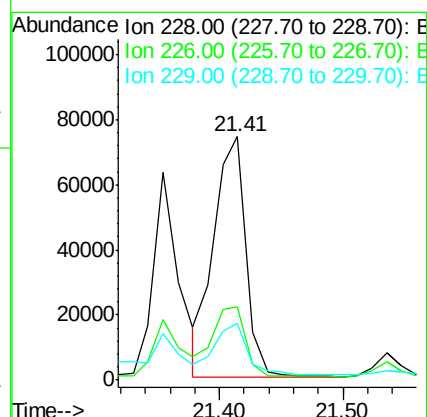
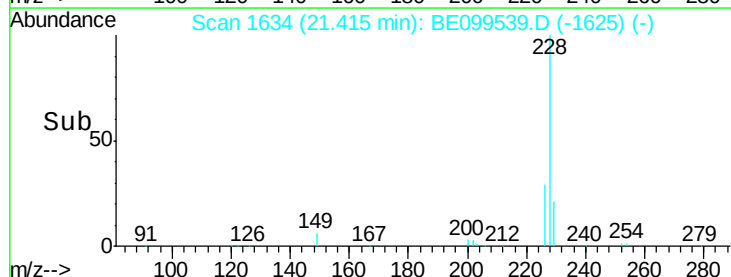
229 23.4 15.8 23.8

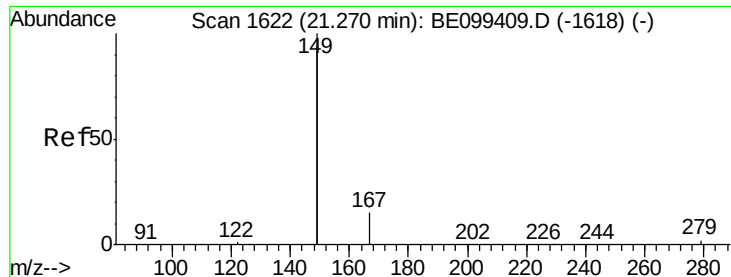


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

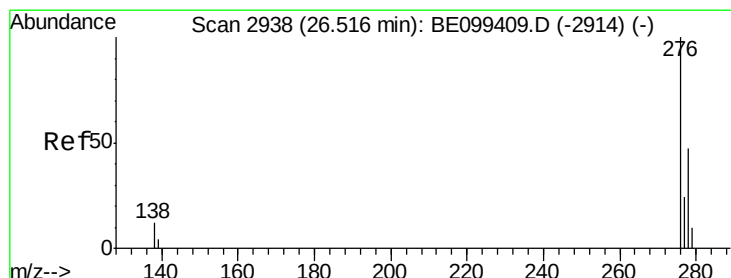
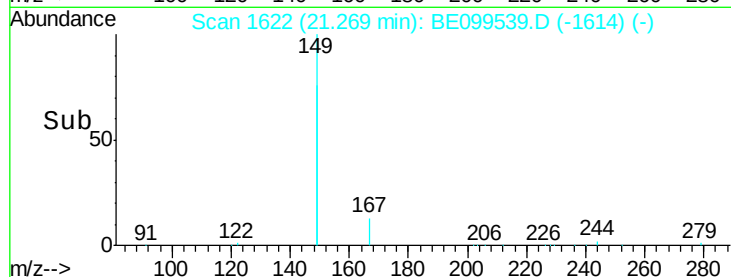
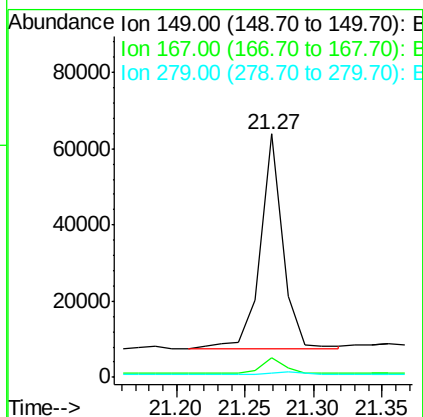
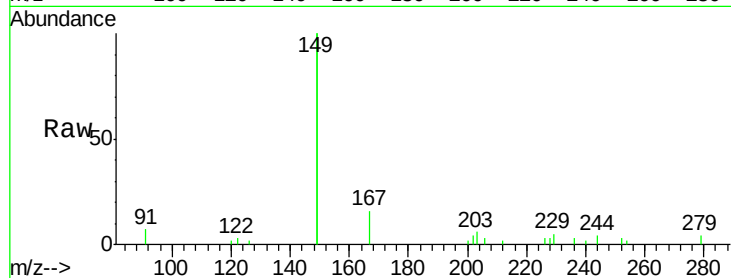




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.470 ng
 RT: 21.27 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: BE099539.D
 Acq: 3 May 2019 20:42

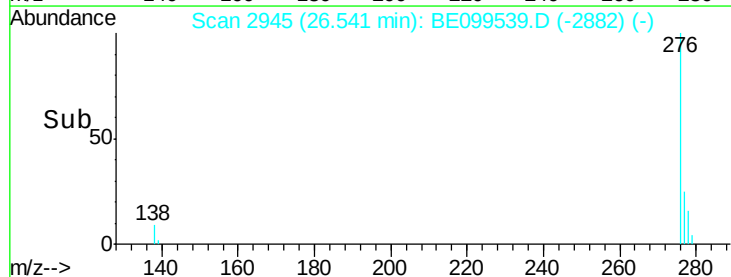
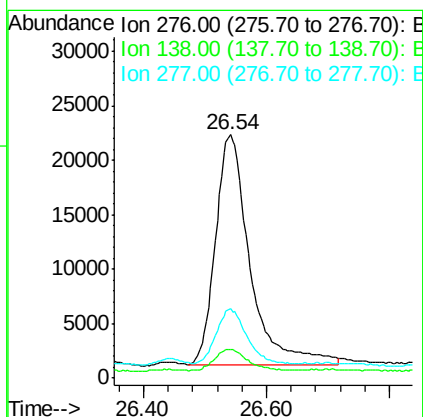
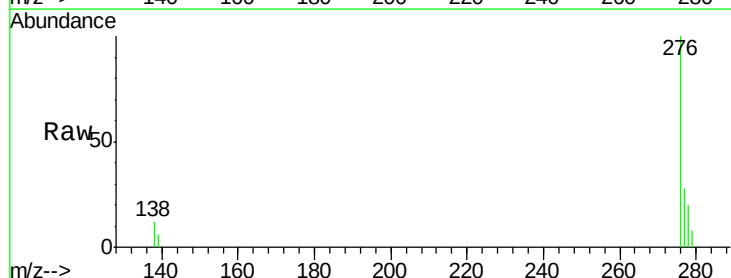
Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW029-042219

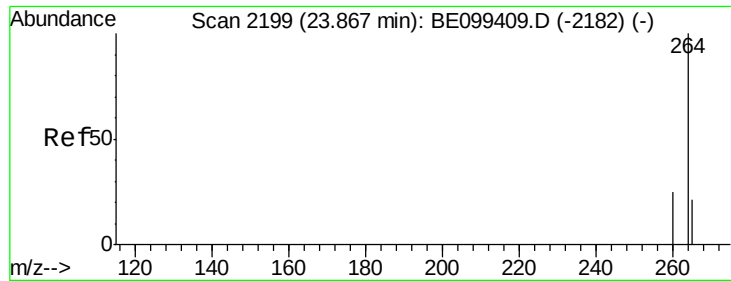
Tot Ion:149 Resp: 63584
 Ion Ratio Lower Upper
 149 100
 167 7.5 5.8 8.6
 279 1.5 1.0 1.6



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.859 ng
 RT: 26.54 min Scan# 2945
 Delta R.T. 0.03 min
 Lab File: BE099539.D
 Acq: 3 May 2019 20:42

Tgt Ion:276 Resp: 82725
 Ion Ratio Lower Upper
 276 100
 138 8.9 10.2 15.2#
 277 21.1 19.2 28.8

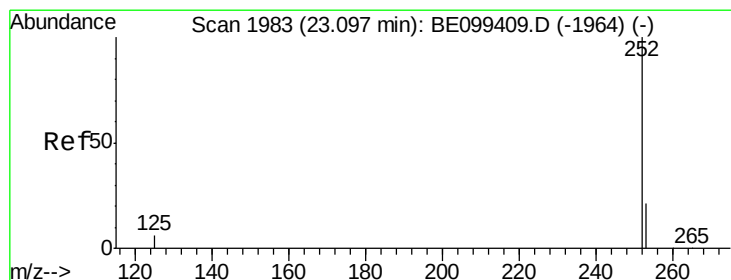
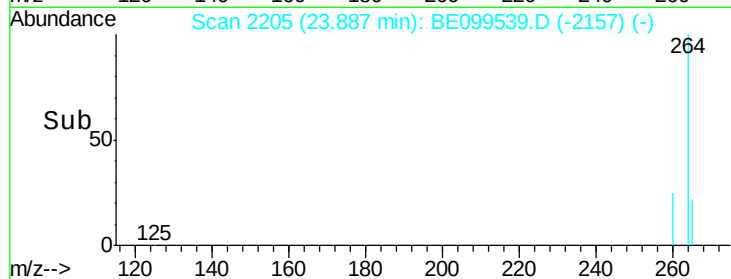
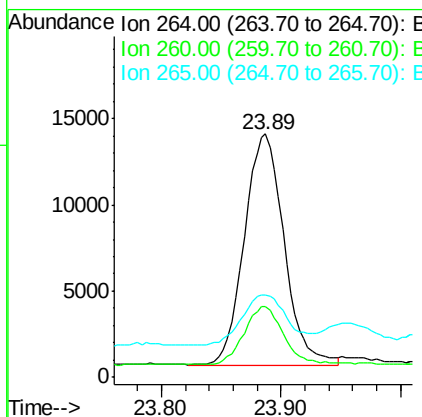
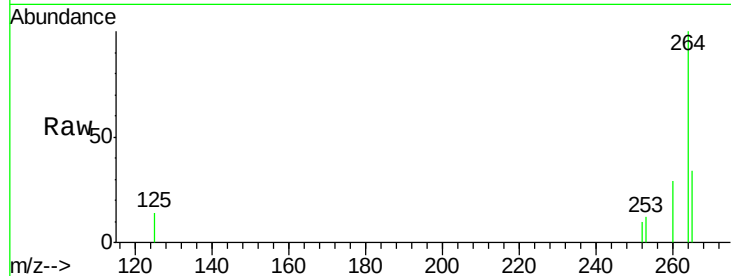




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.89 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

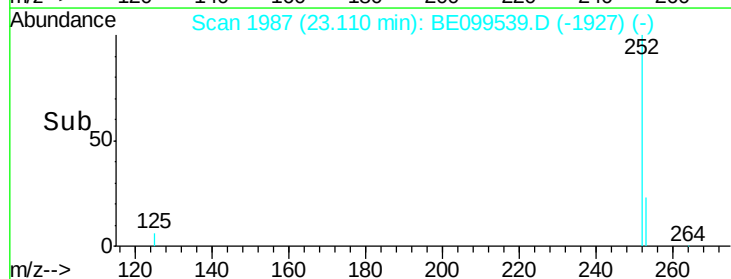
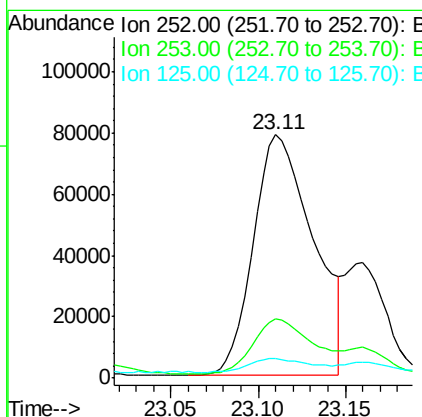
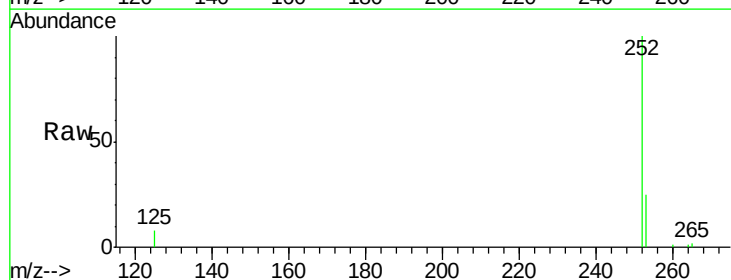
Instrument :
BNA_E
ClientSampleId :
EXT-025-SW029-042219

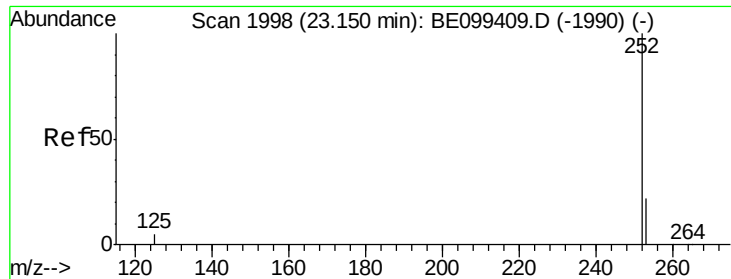
Tot Ion:264 Resp: 31017
Ion Ratio Lower Upper
264 100
260 28.9 20.2 30.2
265 33.9 21.3 31.9#



#35
Benzo(b)fluoranthene
Concen: 2.091 ng
RT: 23.11 min Scan# 1987
Delta R.T. 0.01 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

Tgt Ion:252 Resp: 187056
Ion Ratio Lower Upper
252 100
253 24.6 18.1 27.1
125 8.3 5.6 8.4

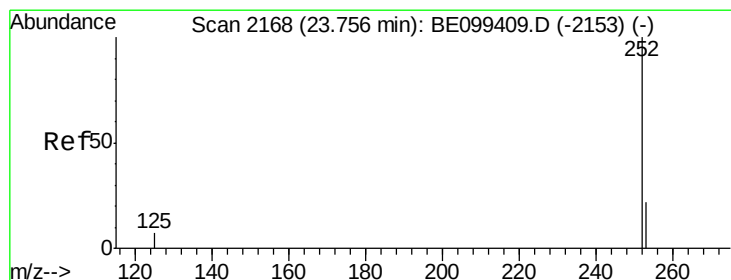
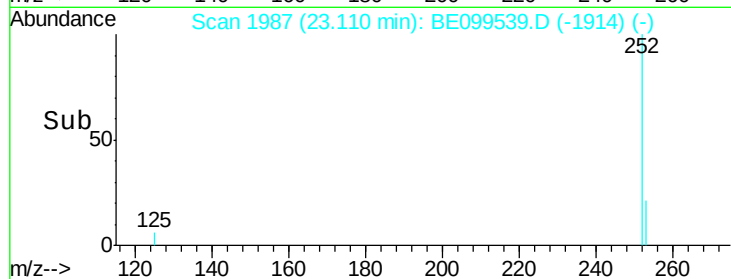
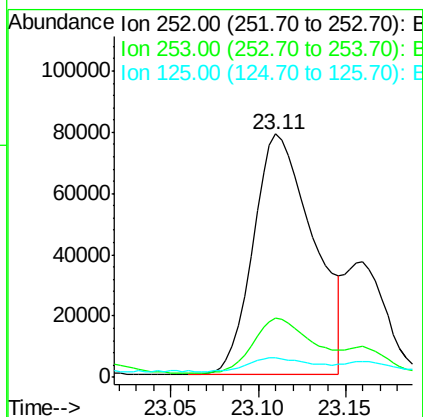
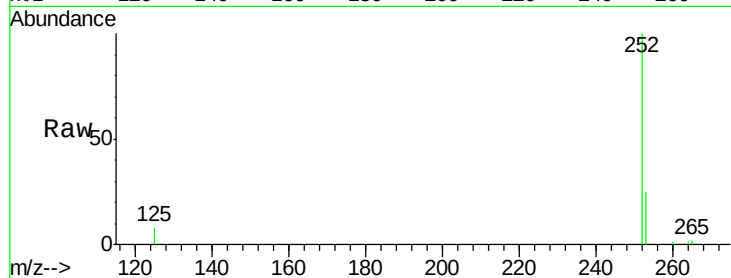




#36
Benzo(k)fluoranthene
Concen: 2.169 ng
RT: 23.11 min Scan# 1987
Delta R.T. -0.04 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

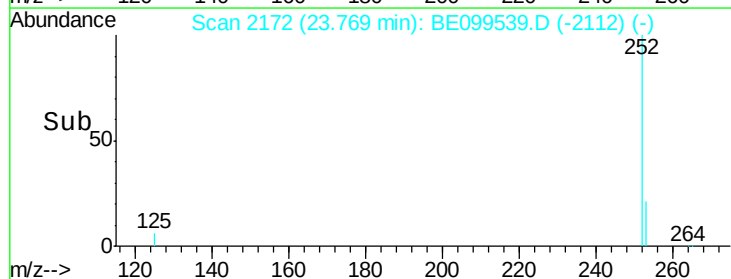
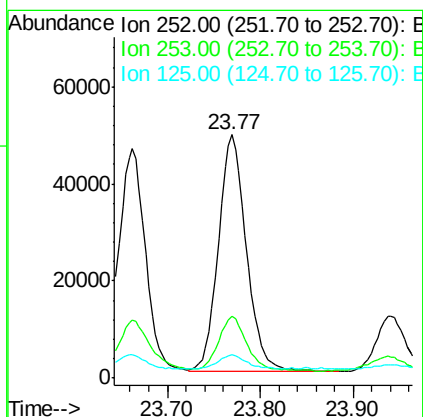
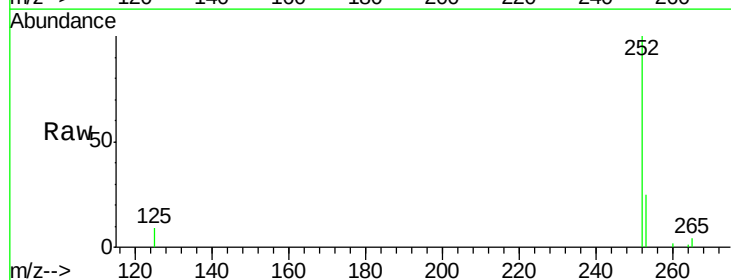
Instrument :
BNA_E
ClientSampleId :
EXT-025-SW029-042219

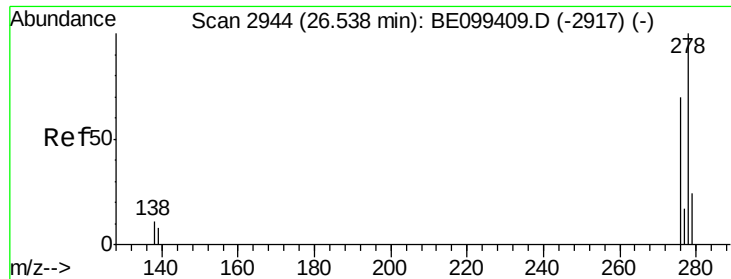
Tot Ion:252 Resp: 187056
Ion Ratio Lower Upper
252 100
253 24.6 18.4 27.6
125 8.3 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 1.205 ng
RT: 23.77 min Scan# 2172
Delta R.T. 0.01 min
Lab File: BE099539.D
Acq: 3 May 2019 20:42

Tgt Ion:252 Resp: 101889
Ion Ratio Lower Upper
252 100
253 25.3 18.9 28.3
125 9.5 6.7 10.1





#38

Dibenzo(a,h)anthracene

Concen: 0.187 ng

RT: 26.56 min Scan# 2950

Delta R.T. 0.02 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW029-042219

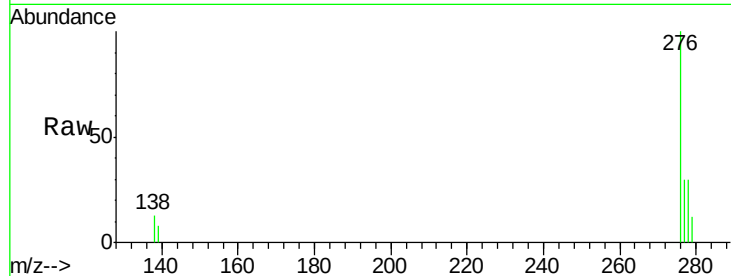
Tot Ion:278 Resp: 16210

Ion Ratio Lower Upper

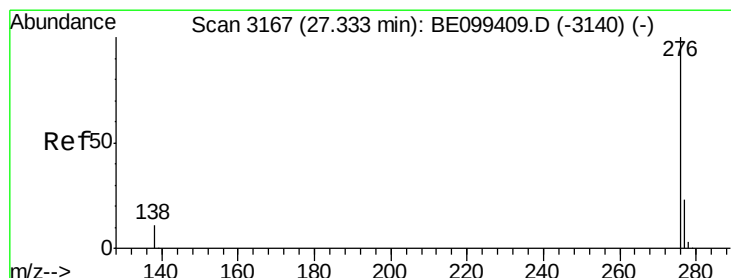
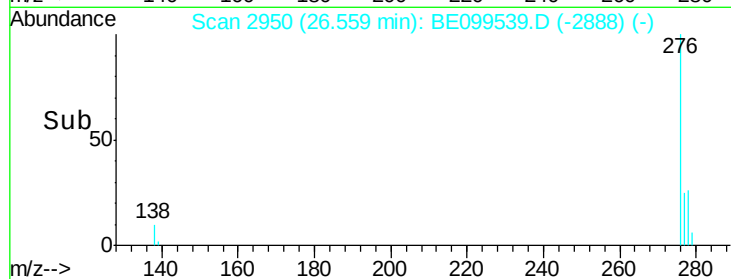
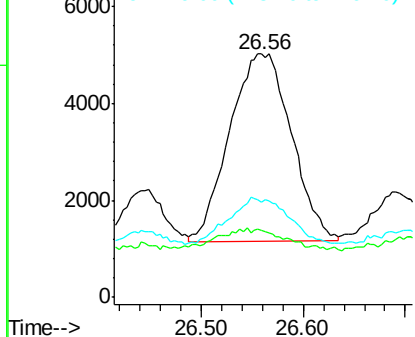
278 100

139 27.4 7.7 11.5#

279 39.0 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: 0.888 ng

RT: 27.37 min Scan# 3176

Delta R.T. 0.03 min

Lab File: BE099539.D

Acq: 3 May 2019 20:42

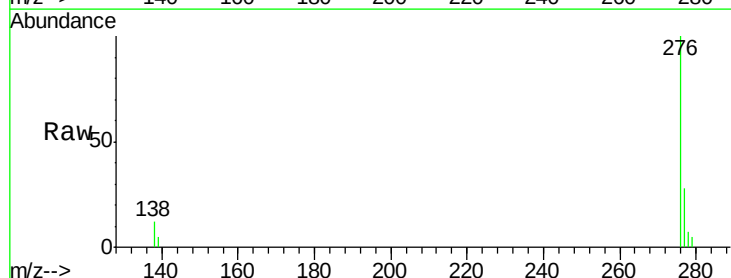
Tgt Ion:276 Resp: 76935

Ion Ratio Lower Upper

276 100

277 27.7 19.5 29.3

138 12.2 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

