

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE052019\
 Data File : BE099670.D
 Acq On : 20 May 2019 21:07
 Operator : JU/SJ
 Sample : PB119824BSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB119824BSD

Quant Time: May 21 06:41:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE052019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 20 19:29:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	1732	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	5729	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	3551	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	9683	0.40	ng	0.00
27) Chrysene-d12	21.41	240	15008	0.40	ng	0.00
34) Perylene-d12	23.96	264	18137	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1576	0.36	ng	0.01
5) Phenol-d6	6.98	99	1938	0.33	ng	0.00
8) Nitrobenzene-d5	8.98	82	1795	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	4633	0.47	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	454	0.30	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	5402	0.40	ng	0.00
25) Fluoranthene-d10	19.26	212	47442	0.36	ng	0.00
29) Terphenyl-d14	19.87	244	10608	0.40	ng	0.00

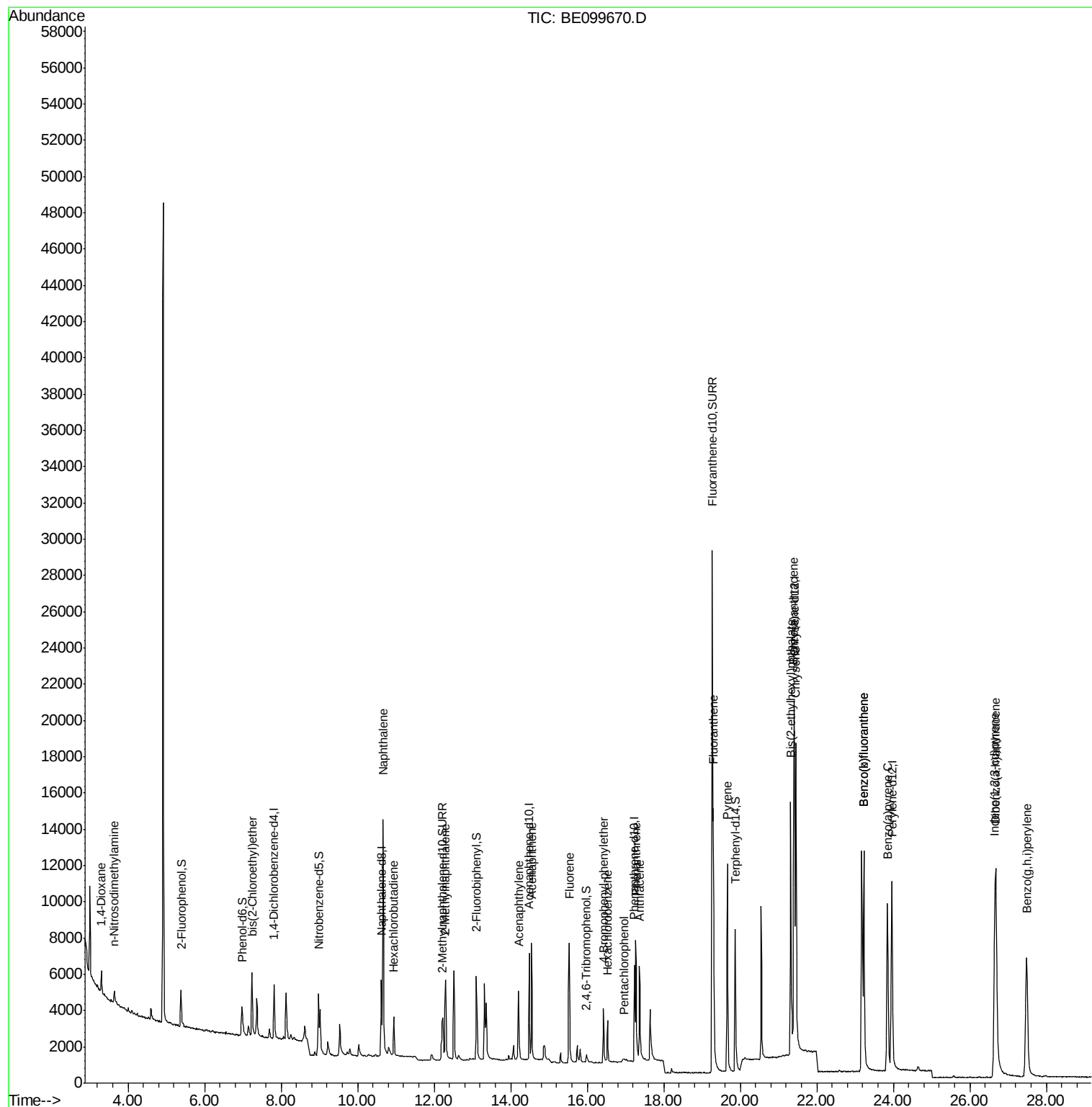
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.30	88	701	0.273	ng	# 43
3) n-Nitrosodimethylamine	3.64	42	440	0.311	ng	# 67
6) bis(2-Chloroethyl)ether	7.24	93	1730	0.336	ng	100
9) Naphthalene	10.67	128	22791	0.372	ng	100
10) Hexachlorobutadiene	10.94	225	1633	0.362	ng	99
12) 2-Methylnaphthalene	12.30	142	3551	0.356	ng	98
16) Acenaphthylene	14.21	152	5823	0.352	ng	99
17) Acenaphthene	14.54	154	3349	0.361	ng	97
18) Fluorene	15.53	166	4687	0.343	ng	98
20) 4-Bromophenyl-phenylether	16.42	248	1973	0.353	ng	# 93
21) Hexachlorobenzene	16.53	284	2197	0.385	ng	98
22) Pentachlorophenol	16.96	266	412	0.415	ng	97
23) Phenanthrene	17.27	178	8515	0.360	ng	98
24) Anthracene	17.36	178	7098	0.331	ng	99
26) Fluoranthene	19.29	202	12980	0.347	ng	100
28) Pyrene	19.66	202	13357	0.354	ng	99
30) Benzo(a)anthracene	21.40	228	16807	0.394	ng	100
31) Chrysene	21.45	228	18935	0.415	ng	99
32) Bis(2-ethylhexyl)phthalate	21.32	149	15361	0.313	ng	99
33) Indeno(1,2,3-cd)pyrene	26.65	276	22874	0.416	ng	99
35) Benzo(b)fluoranthene	23.23	252	20413	0.411	ng	99
36) Benzo(k)fluoranthene	23.23	252	20800	0.401	ng	100
37) Benzo(a)pyrene	23.84	252	18688	0.391	ng	98
38) Dibenzo(a,h)anthracene	26.68	278	18982	0.378	ng	98
39) Benzo(g,h,i)perylene	27.48	276	19991	0.394	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

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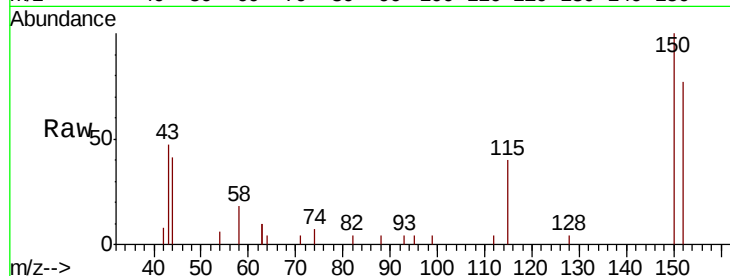
Tgt Ion:152 Resp: 1732

Ion Ratio Lower Upper

152 100

150 129.6 109.2 163.8

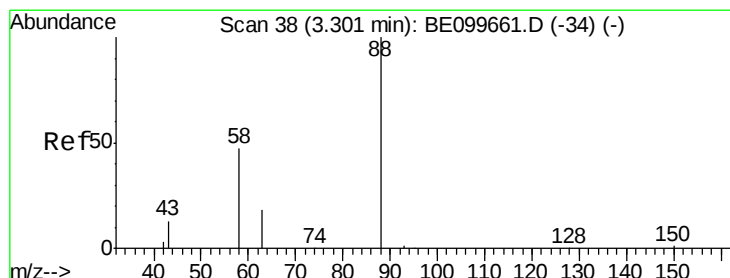
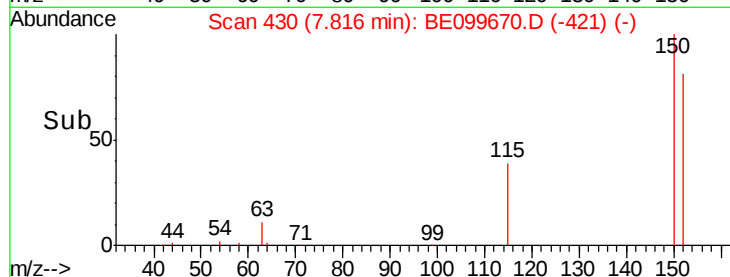
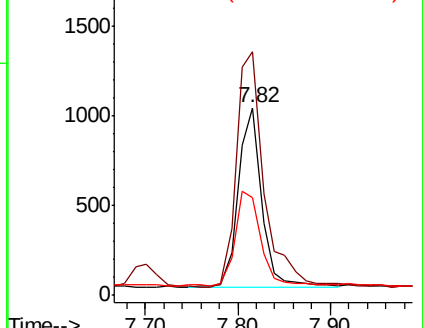
115 52.2 43.7 65.5



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: 0.273 ng

RT: 3.30 min Scan# 38

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

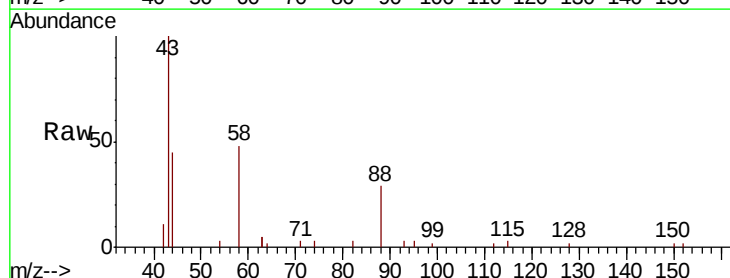
Tgt Ion: 88 Resp: 701

Ion Ratio Lower Upper

88 100

58 78.0 41.8 62.8#

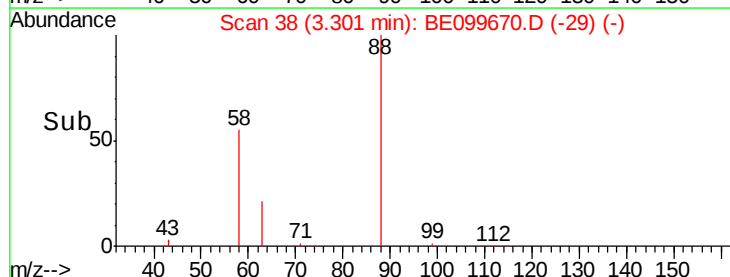
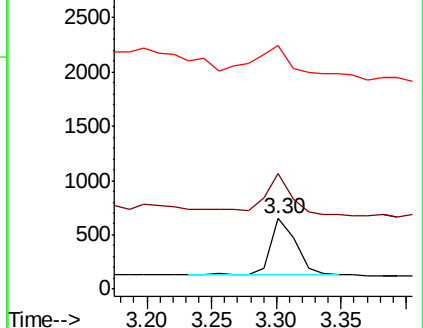
43 70.0 15.0 22.4#



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





#3

n-Nitrosodimethylamine

Concen: 0.311 ng

RT: 3.64 min Scan# 67

Delta R.T. 0.00 min

Lab File: BE099670.D

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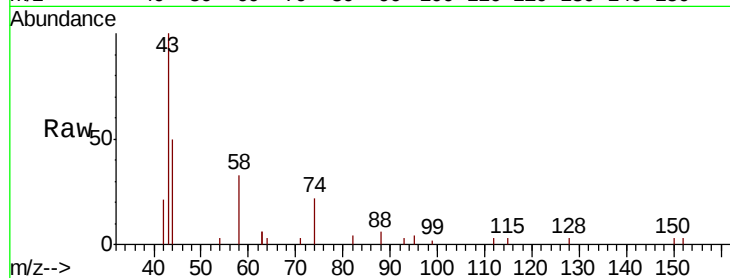
Tgt Ion: 42 Resp: 440

Ion Ratio Lower Upper

42 100

74 204.8 129.2 193.8#

44 0.0 0.0 0.0

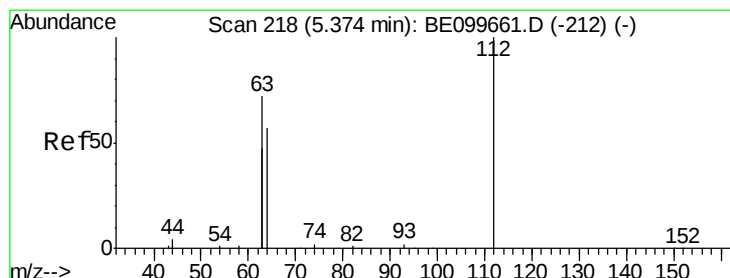
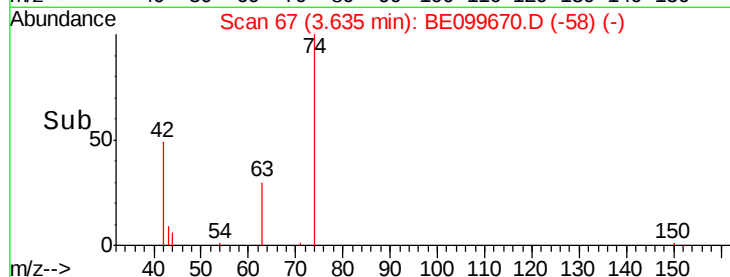
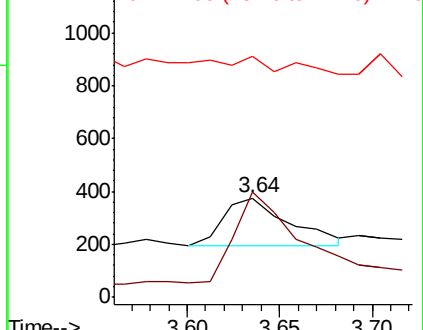


Abundance

Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.360 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.01 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

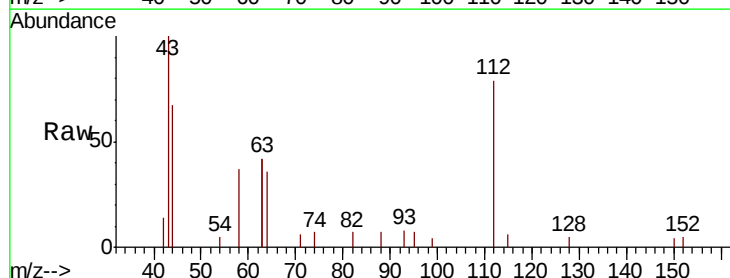
Tgt Ion: 112 Resp: 1576

Ion Ratio Lower Upper

112 100

64 52.7 43.4 65.2

63 110.2 96.9 145.3

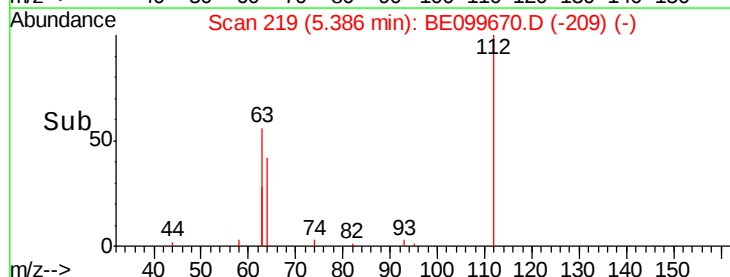
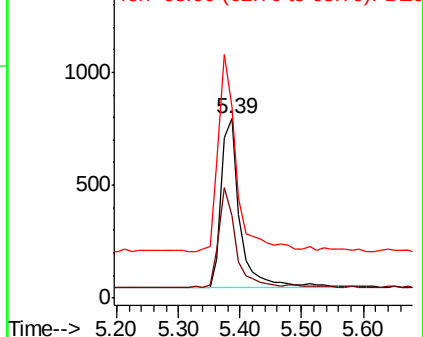


Abundance

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: 0.334 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

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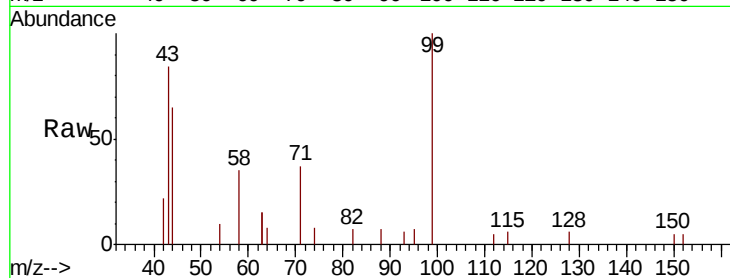
Tgt Ion: 99 Resp: 1938

Ion Ratio Lower Upper

99 100

42 15.1 12.2 18.2

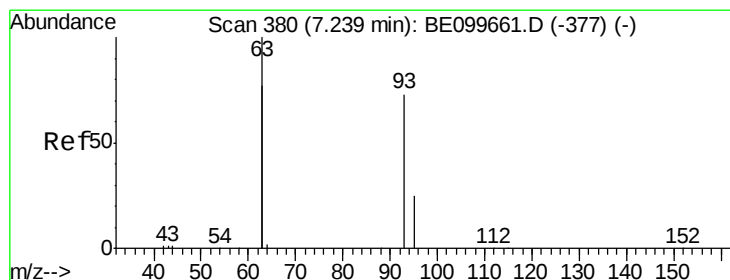
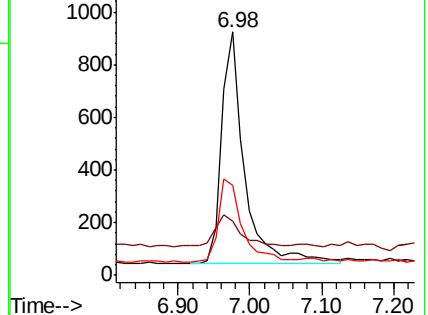
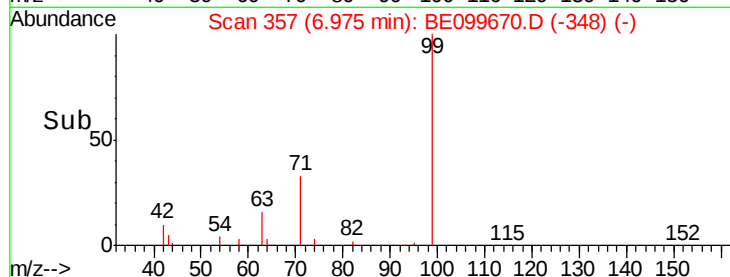
71 37.3 28.9 43.3



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



#6

bis(2-Chloroethyl)ether

Concen: 0.336 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

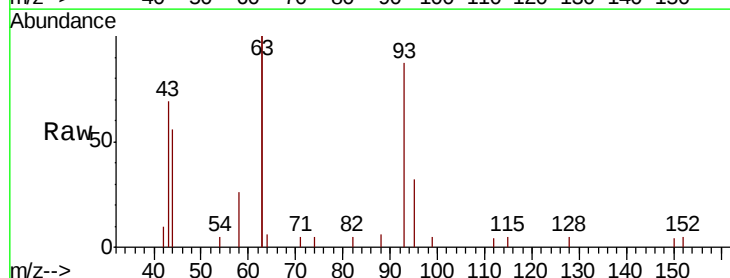
Tgt Ion: 93 Resp: 1730

Ion Ratio Lower Upper

93 100

63 260.3 207.8 311.6

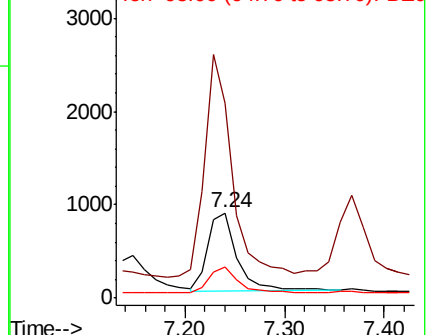
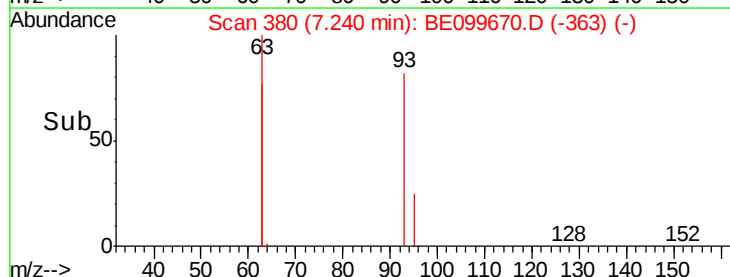
95 33.4 25.9 38.9

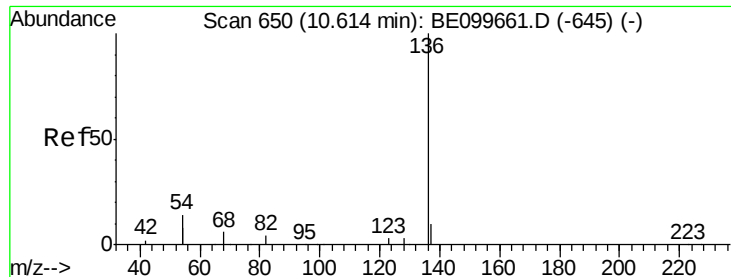


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. -0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

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Tgt Ion:136 Resp: 5729

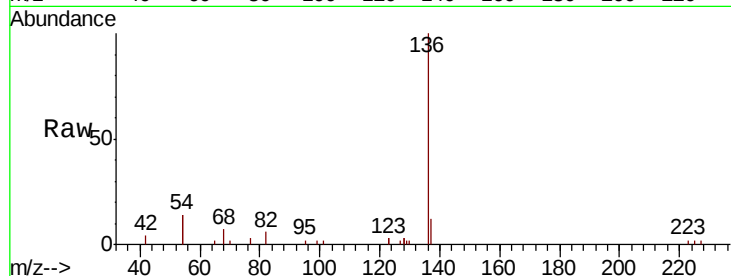
Ion Ratio Lower Upper

136 100

137 12.3 9.0 13.6

54 27.6 22.3 33.5

68 7.3 6.0 9.0

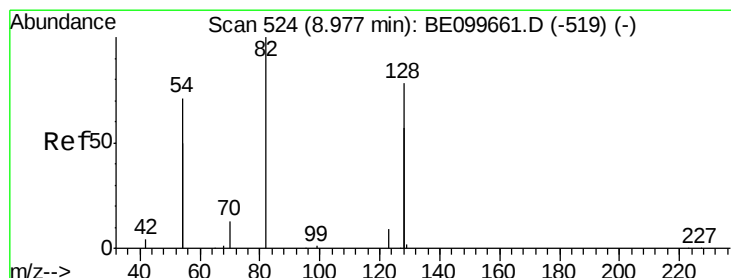
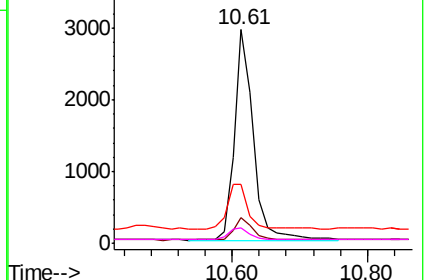
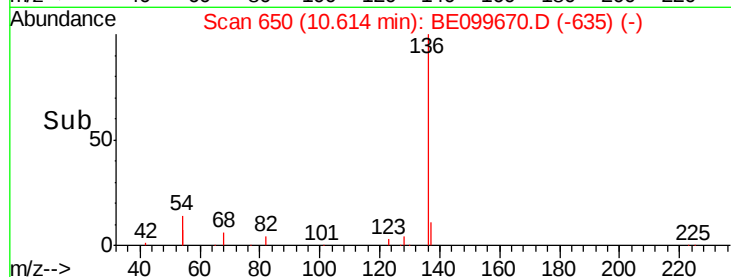


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.362 ng

RT: 8.98 min Scan# 524

Delta R.T. -0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

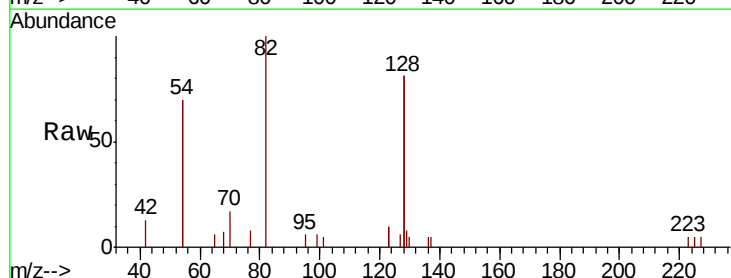
Tgt Ion: 82 Resp: 1795

Ion Ratio Lower Upper

82 100

128 162.4 117.7 176.5

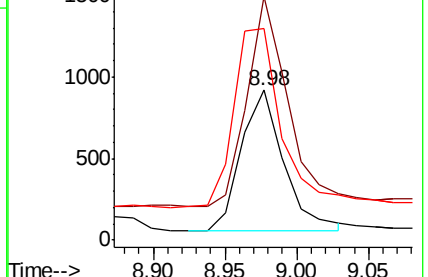
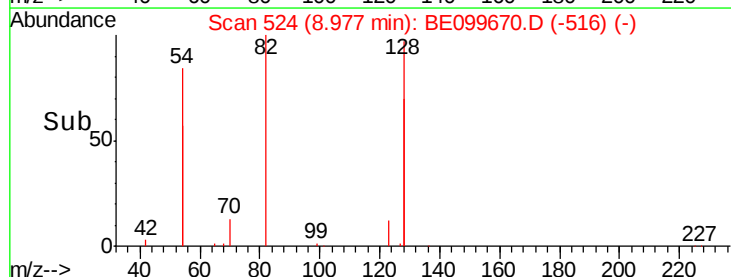
54 140.8 106.6 160.0

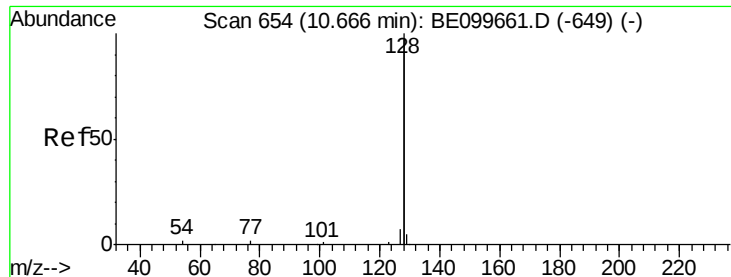


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

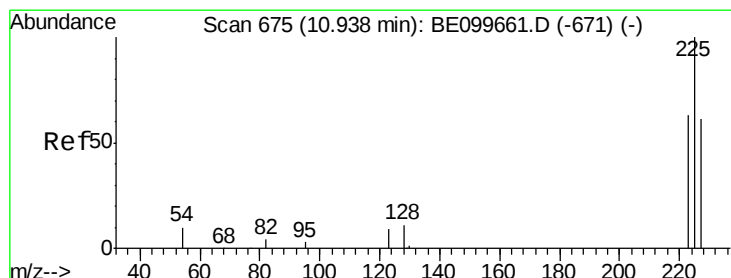
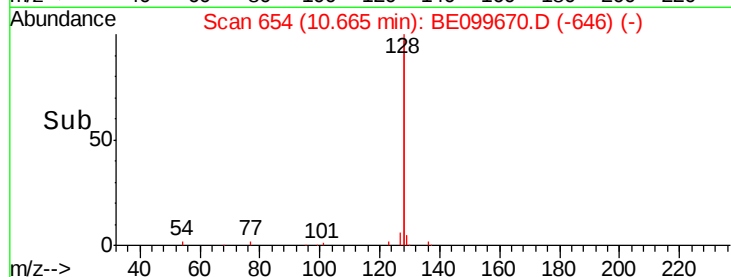
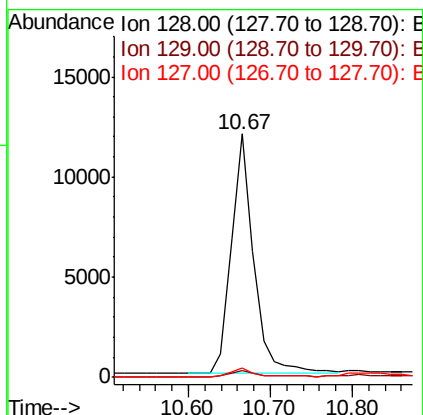
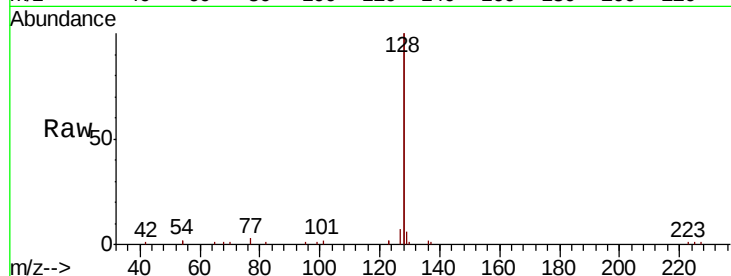




#9
Naphthalene
Concen: 0.372 ng
RT: 10.67 min Scan# 654
Delta R.T. -0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

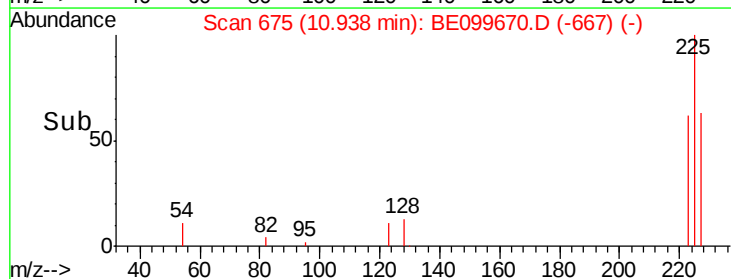
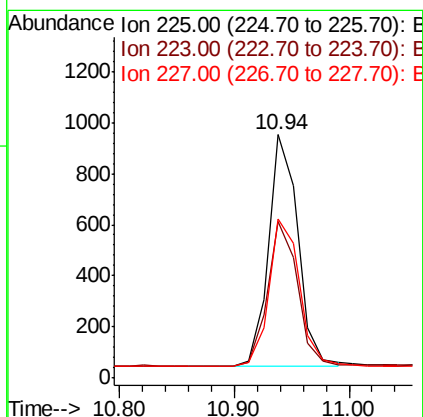
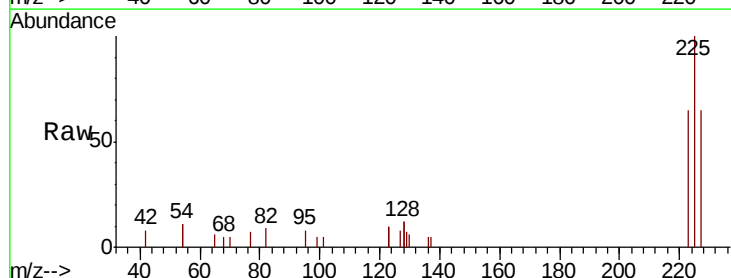
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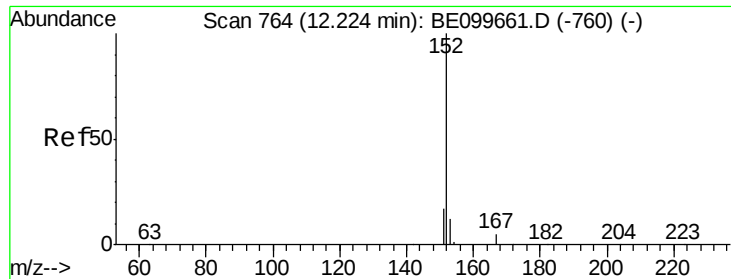
Tgt Ion:128 Resp: 22791
Ion Ratio Lower Upper
128 100
129 3.0 2.4 3.6
127 3.6 2.9 4.3



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.94 min Scan# 675
Delta R.T. -0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Tgt Ion:225 Resp: 1633
Ion Ratio Lower Upper
225 100
223 63.6 51.8 77.6
227 65.5 52.6 79.0

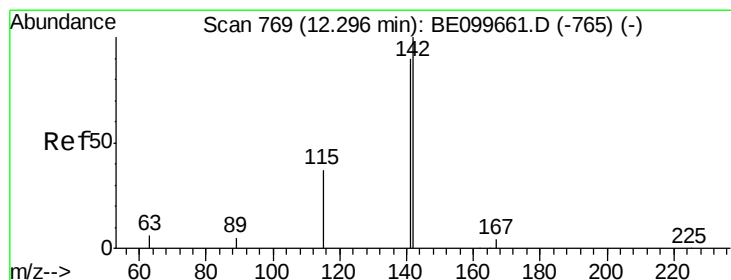
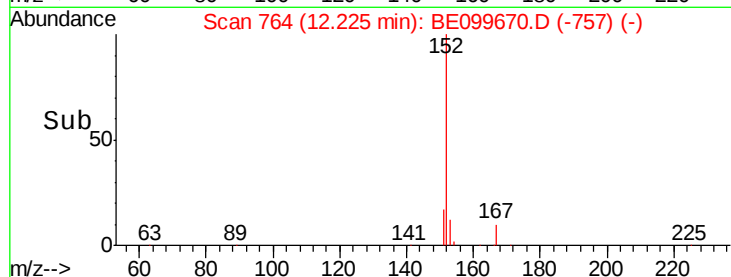
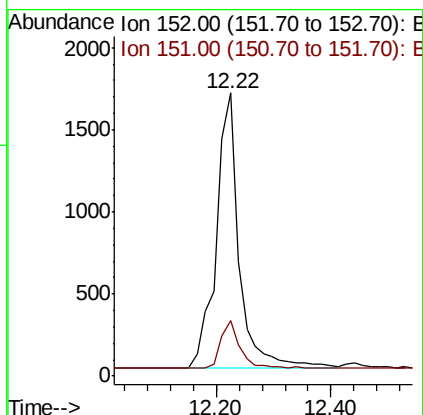
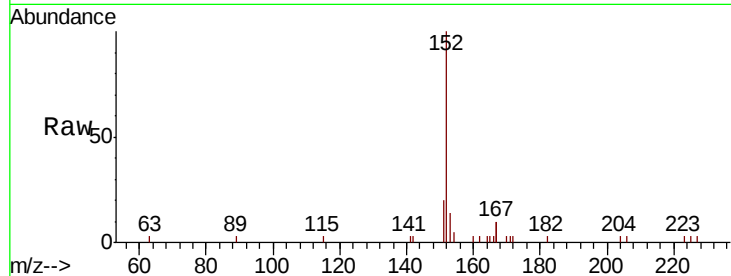




#11
 2-Methylnaphthalene-d10
 Concen: 0.469 ng
 RT: 12.22 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: BE099670.D
 Acq: 20 May 2019 21:07

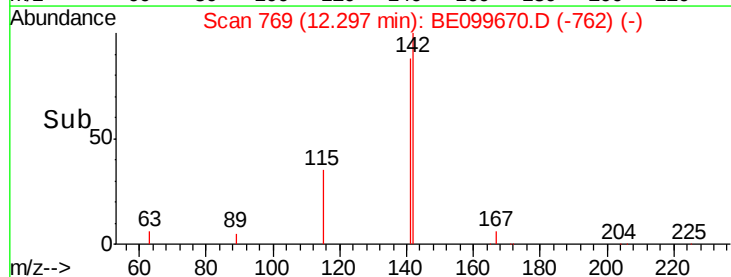
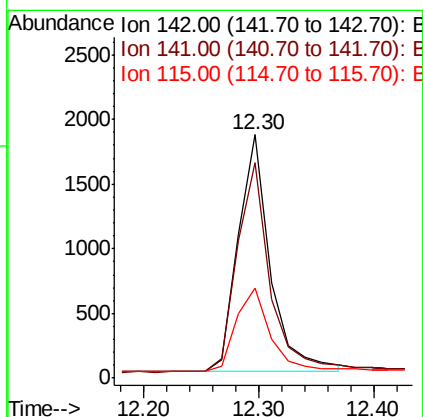
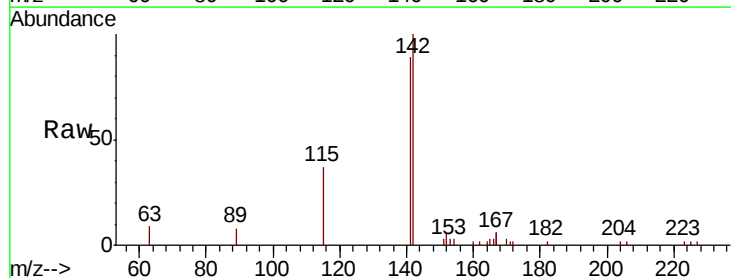
Instrument :
 BNA_E
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 PB119824BSD

Tgt Ion:152 Resp: 4633
 Ion Ratio Lower Upper
 152 100
 151 14.9 15.0 22.4#



#12
 2-Methylnaphthalene
 Concen: 0.356 ng
 RT: 12.30 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BE099670.D
 Acq: 20 May 2019 21:07

Tgt Ion:142 Resp: 3551
 Ion Ratio Lower Upper
 142 100
 141 88.7 72.0 108.0
 115 37.2 31.0 46.4

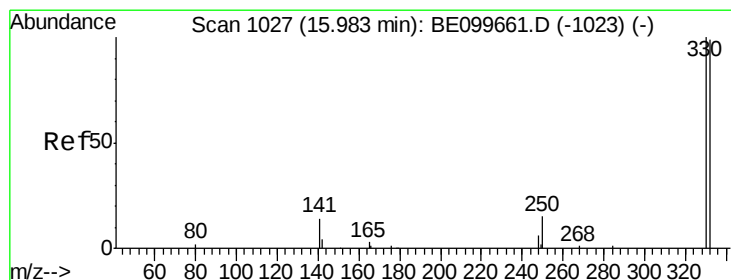
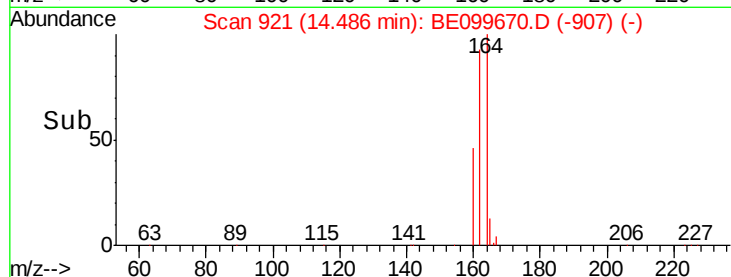
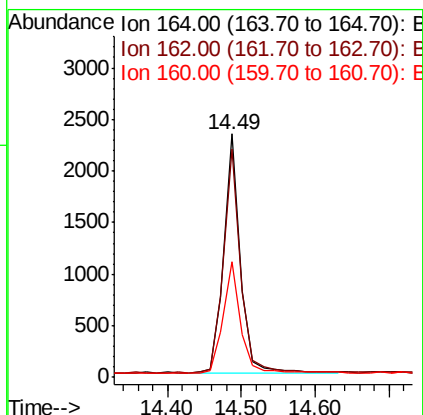
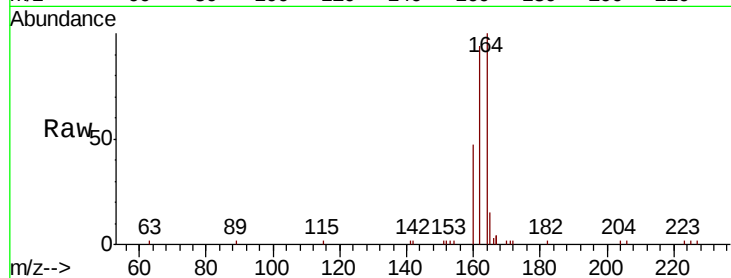




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

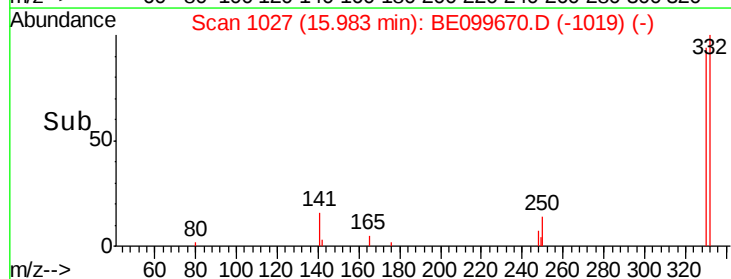
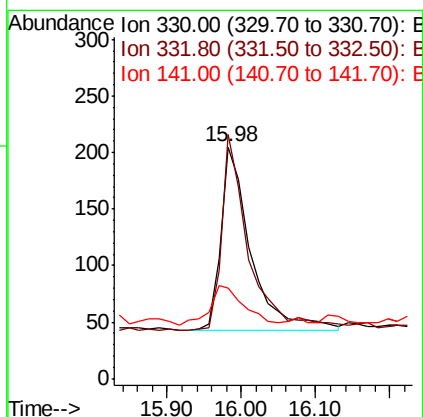
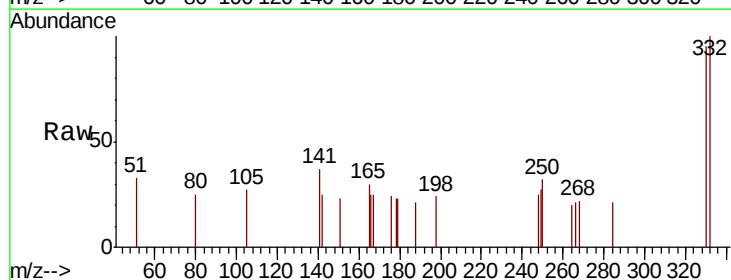
Instrument :
BNA_E
ClientSampleId :
PB119824BSD

Tgt Ion:164 Resp: 3551
Ion Ratio Lower Upper
164 100
162 93.5 76.5 114.7
160 47.2 37.4 56.2



#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Tgt Ion:330 Resp: 454
Ion Ratio Lower Upper
330 100
332 97.6 77.3 115.9
141 25.6 18.9 28.3

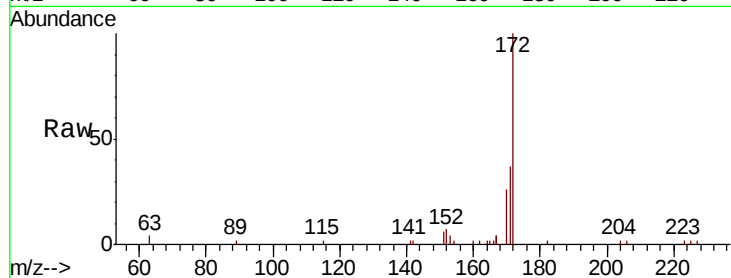




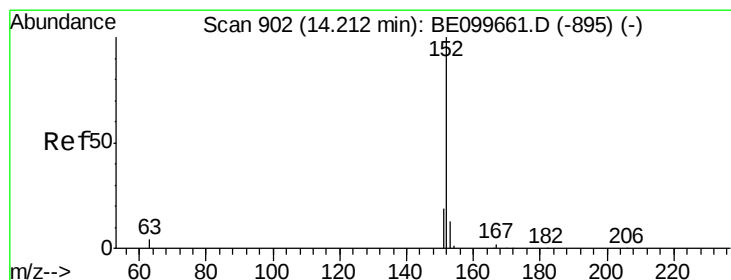
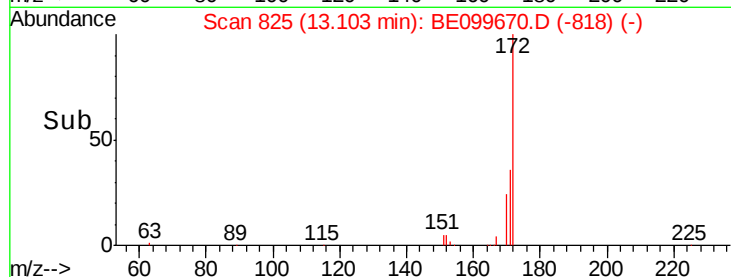
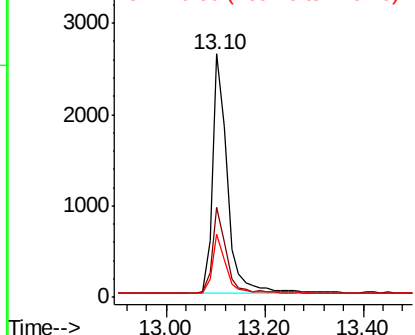
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 13.10 min Scan# 825
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Instrument :
BNA_E
ClientSampleId :
PB119824BSD

Tgt Ion:172 Resp: 5402
Ion Ratio Lower Upper
172 100
171 37.0 28.7 43.1
170 25.8 20.9 31.3

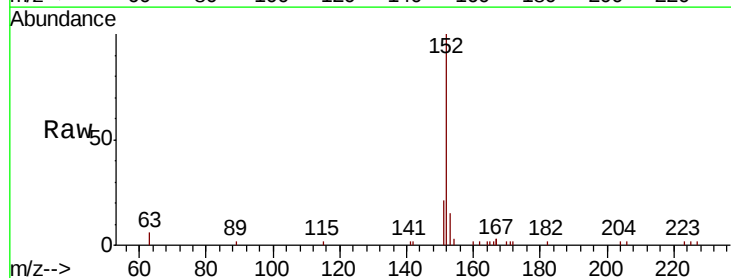


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

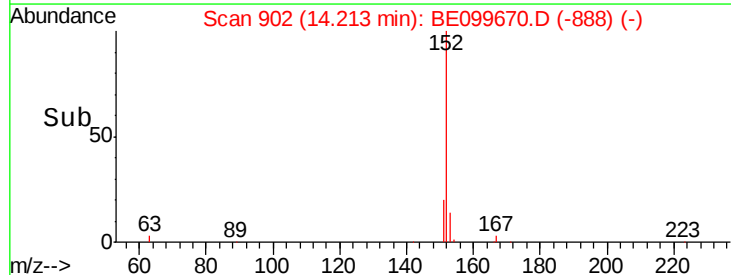
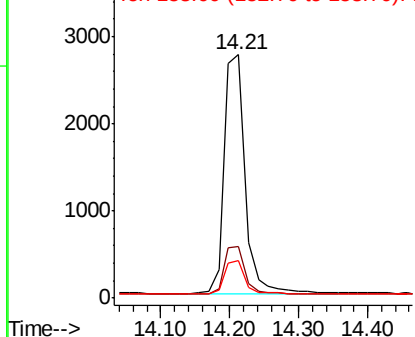


#16
Acenaphthylene
Concen: 0.352 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Tgt Ion:152 Resp: 5823
Ion Ratio Lower Upper
152 100
151 20.1 15.9 23.9
153 13.8 10.6 16.0



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: 0.361 ng

RT: 14.54 min Scan# 925

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

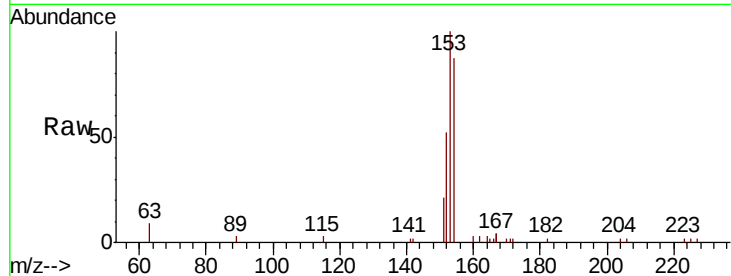
Tgt Ion:154 Resp: 3349

Ion Ratio Lower Upper

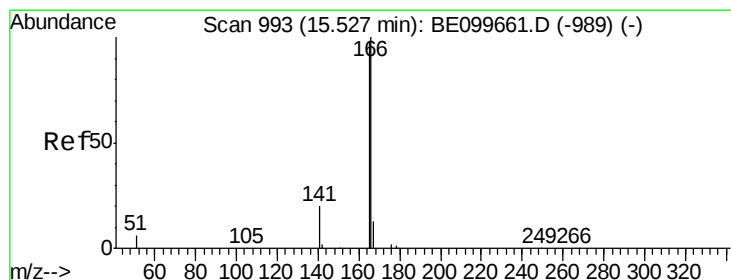
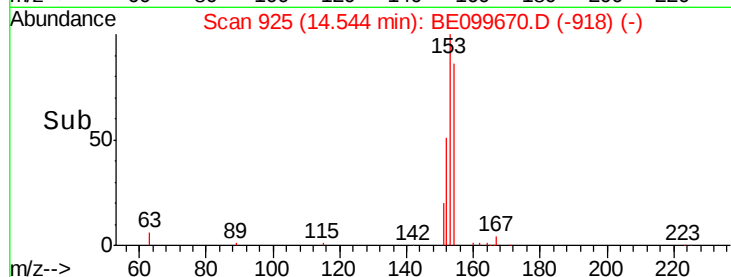
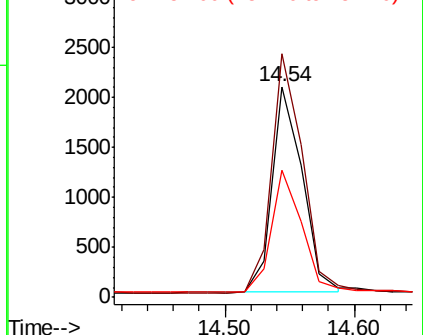
154 100

153 118.5 91.8 137.6

152 59.5 46.0 69.0



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: 0.343 ng

RT: 15.53 min Scan# 993

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

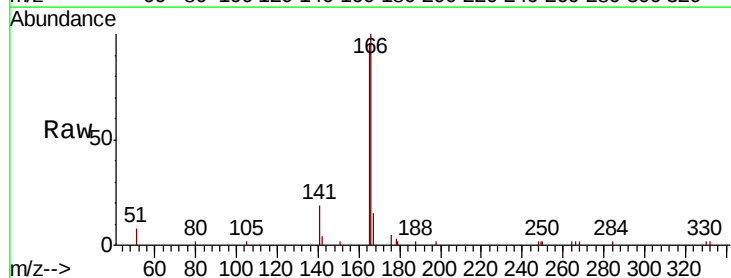
Tgt Ion:166 Resp: 4687

Ion Ratio Lower Upper

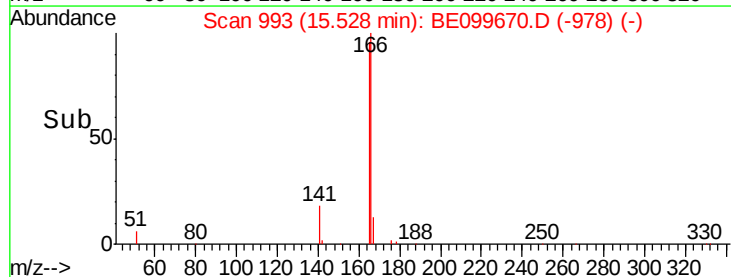
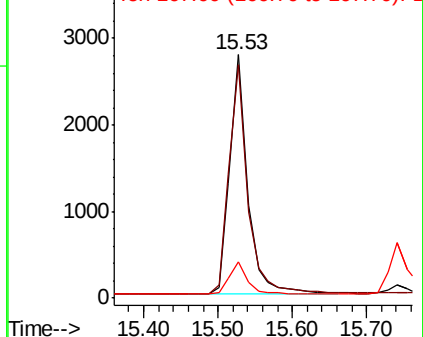
166 100

165 98.2 80.3 120.5

167 13.2 10.6 16.0



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: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

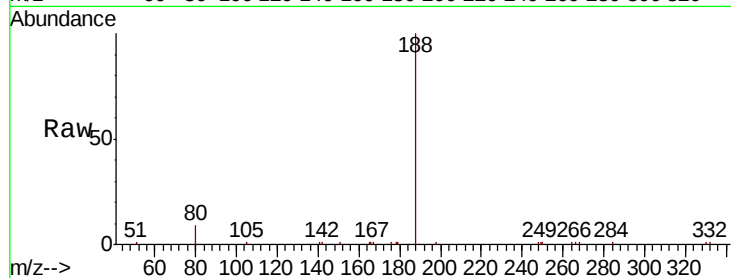
Tgt Ion:188 Resp: 9683

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

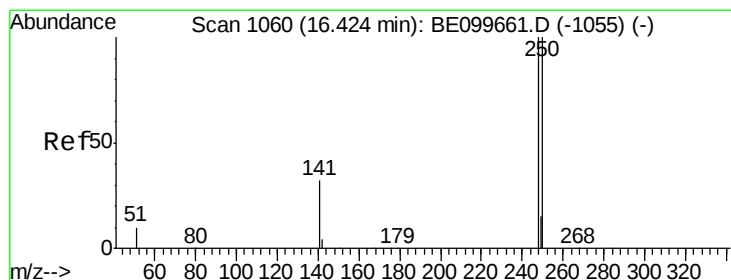
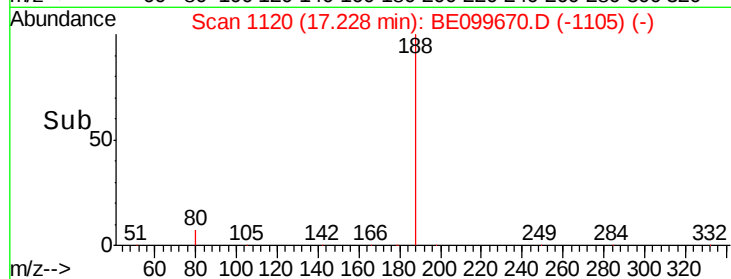
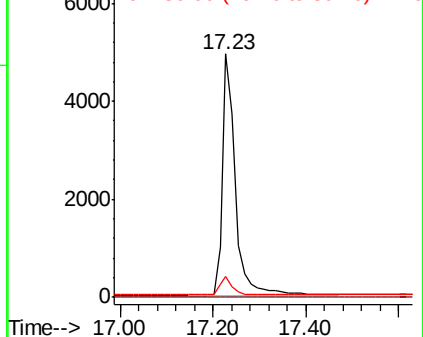
80 8.5 6.7 10.1



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



#20

4-Bromophenyl-phenylether

Concen: 0.353 ng

RT: 16.42 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

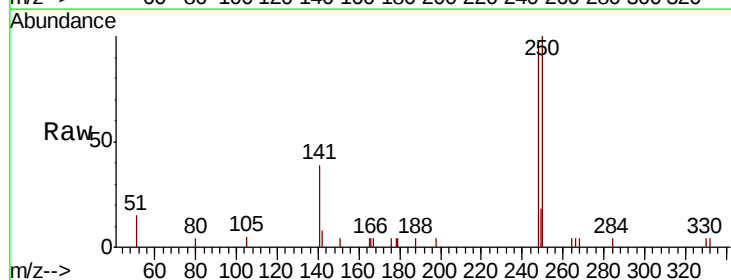
Tgt Ion:248 Resp: 1973

Ion Ratio Lower Upper

248 100

250 105.1 79.8 119.8

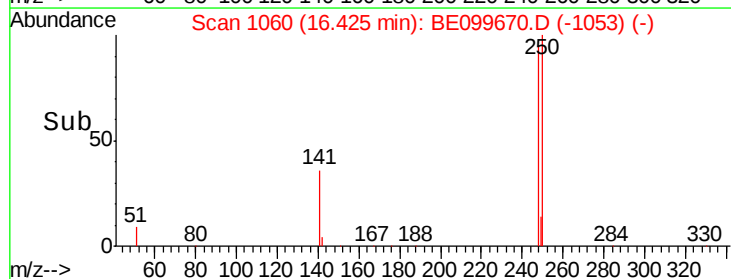
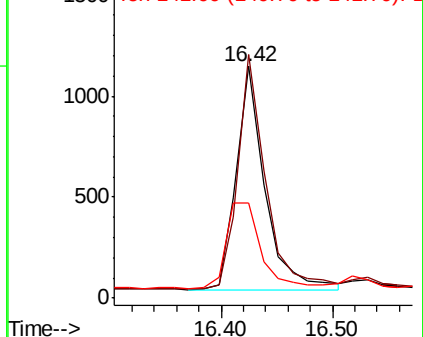
141 41.1 27.0 40.6#

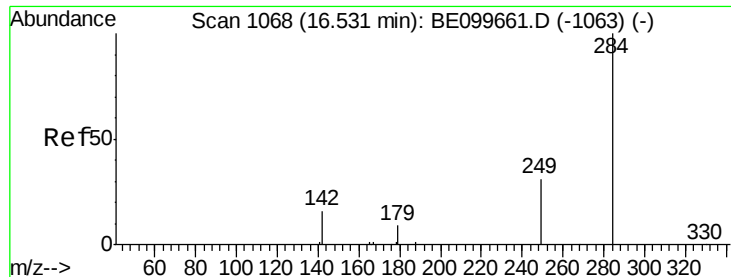


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

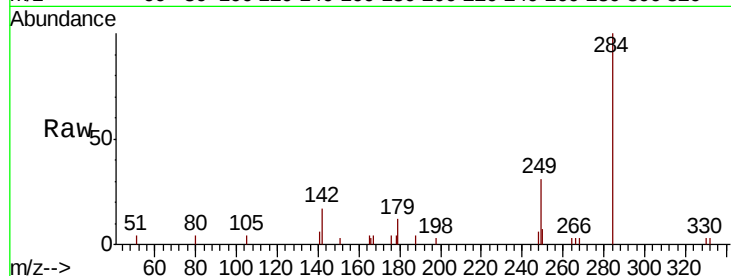




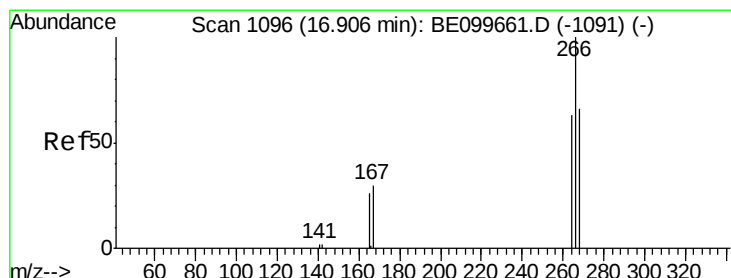
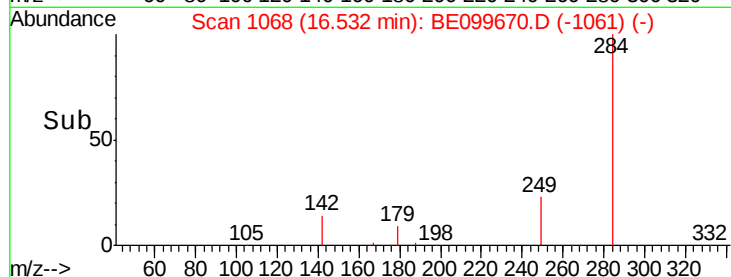
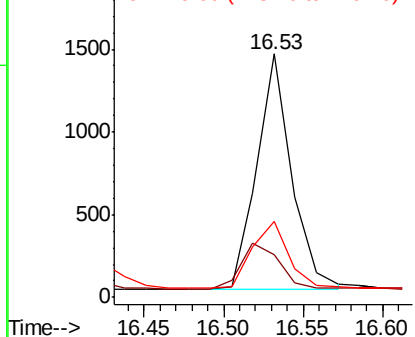
#21
Hexachlorobenzene
Concen: 0.385 ng
RT: 16.53 min Scan# 1068
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Instrument :
BNA_E
ClientSampleId :
PB119824BSD

Tgt Ion: 284 Resp: 2197
Ion Ratio Lower Upper
284 100
142 22.1 17.8 26.6
249 29.4 24.8 37.2

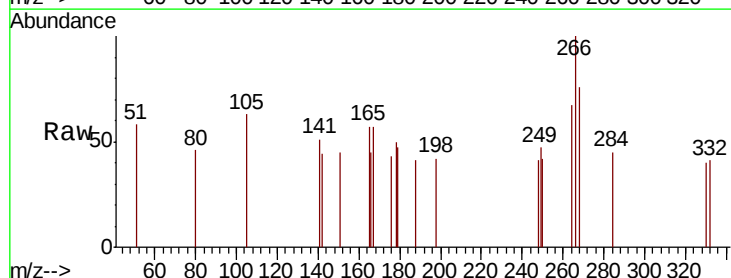


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

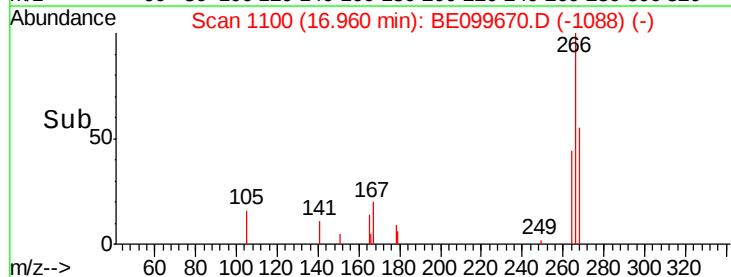
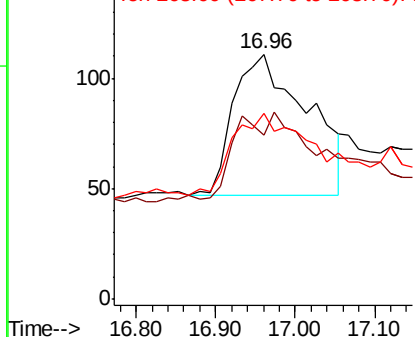


#22
Pentachlorophenol
Concen: 0.415 ng
RT: 16.96 min Scan# 1100
Delta R.T. 0.05 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Tgt Ion: 266 Resp: 412
Ion Ratio Lower Upper
266 100
264 66.7 57.2 85.8
268 75.7 60.5 90.7



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: 0.360 ng

RT: 17.27 min Scan# 1123

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

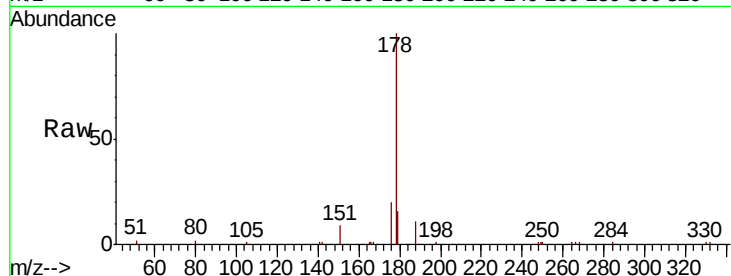
Tgt Ion:178 Resp: 8515

Ion Ratio Lower Upper

178 100

176 18.4 15.6 23.4

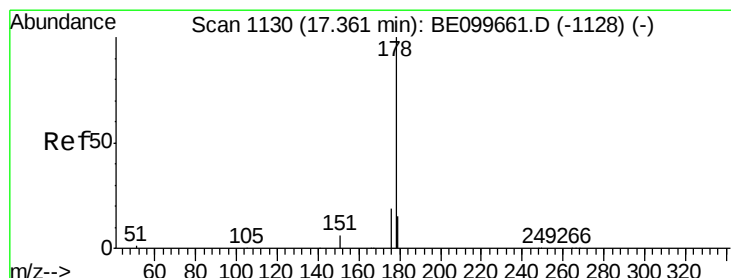
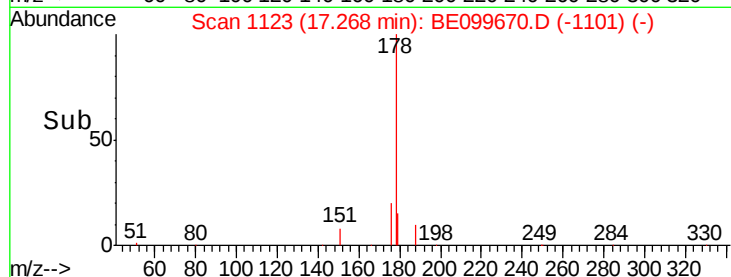
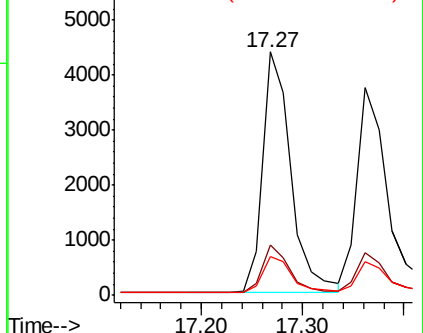
179 15.5 12.2 18.4



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: 0.331 ng

RT: 17.36 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

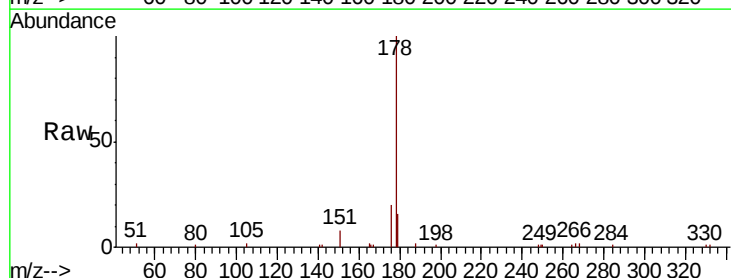
Tgt Ion:178 Resp: 7098

Ion Ratio Lower Upper

178 100

176 18.9 14.7 22.1

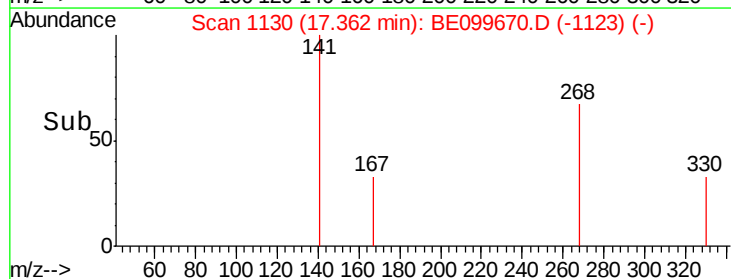
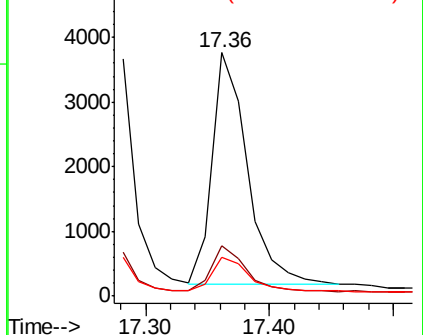
179 14.8 12.0 18.0



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





#25

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.26 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

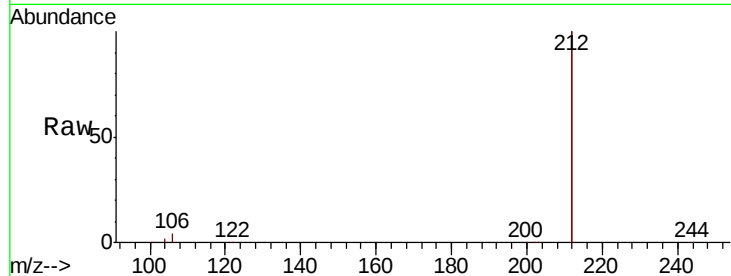
Tgt Ion:212 Resp: 47442

Ion Ratio Lower Upper

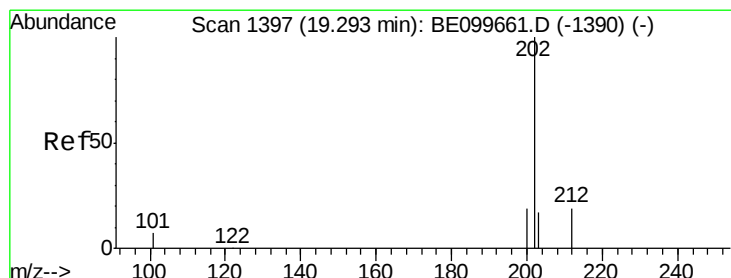
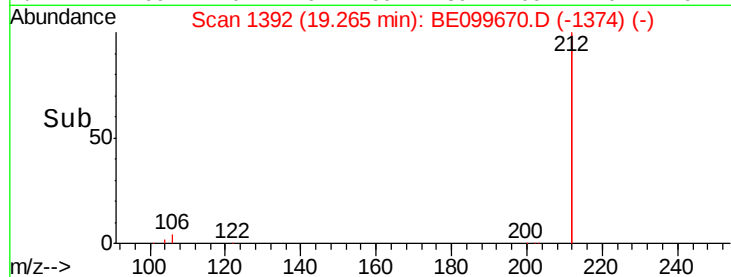
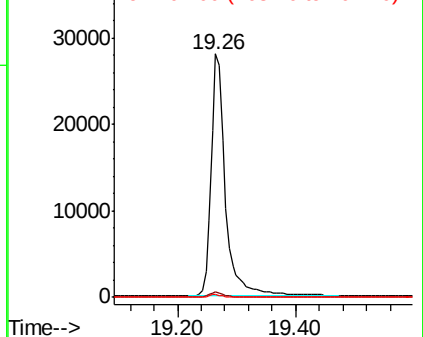
212 100

106 1.8 1.4 2.2

104 1.0 0.8 1.2



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: 0.347 ng

RT: 19.29 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

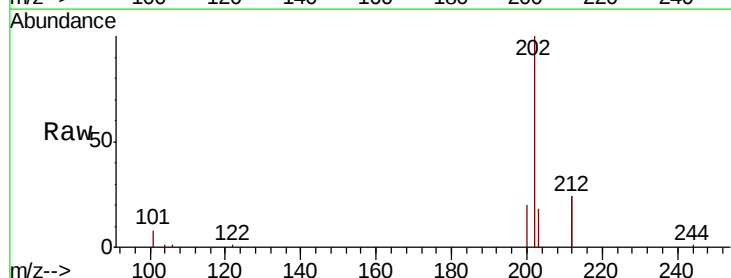
Tgt Ion:202 Resp: 12980

Ion Ratio Lower Upper

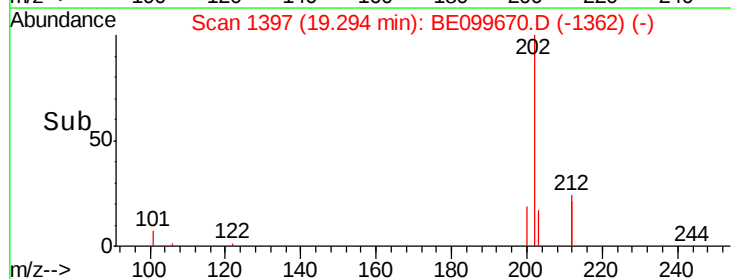
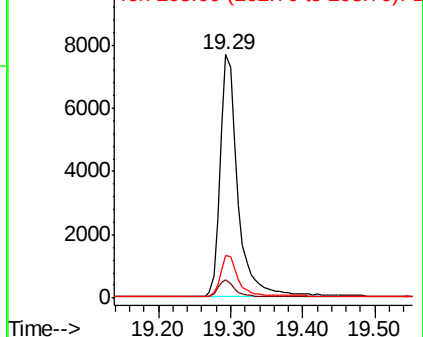
202 100

101 6.6 5.2 7.8

203 17.1 13.8 20.6



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: 21.41 min Scan# 1634

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

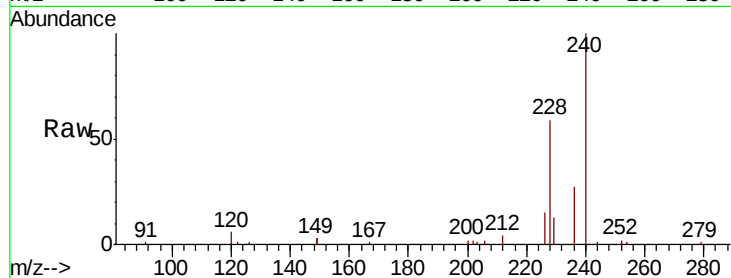
Tgt Ion:240 Resp: 15008

Ion Ratio Lower Upper

240 100

120 6.0 5.4 8.0

236 27.0 21.7 32.5

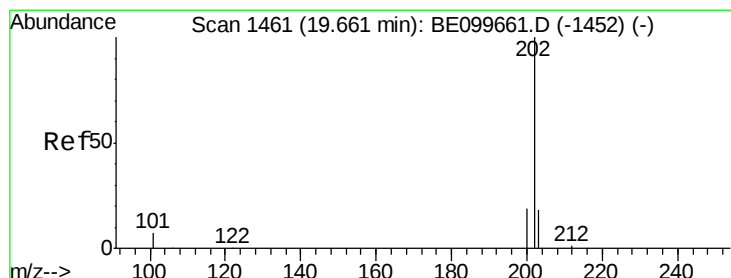
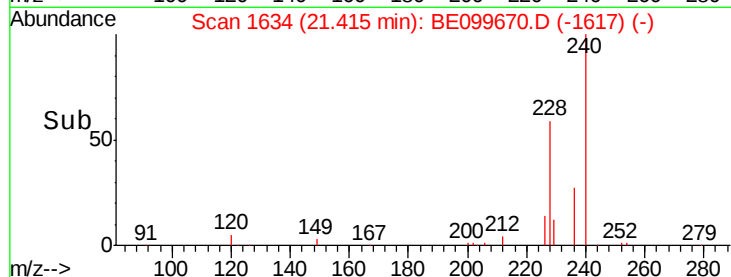
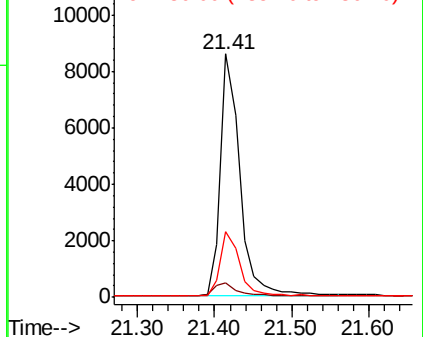


Abundance

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



#28

Pyrene

Concen: 0.354 ng

RT: 19.66 min Scan# 1461

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

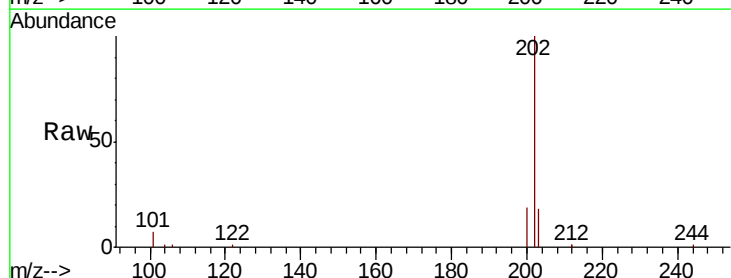
Tgt Ion:202 Resp: 13357

Ion Ratio Lower Upper

202 100

200 19.3 15.4 23.2

203 18.0 13.8 20.8

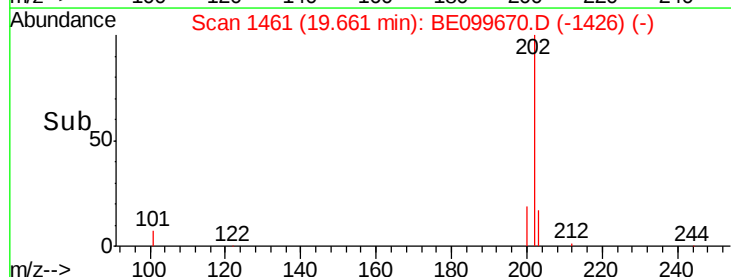
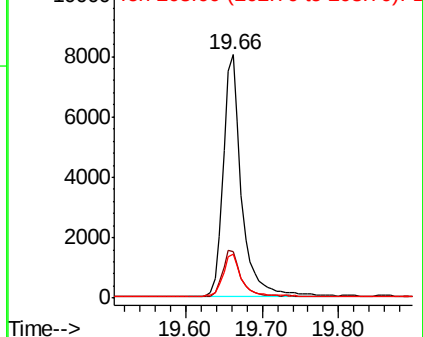


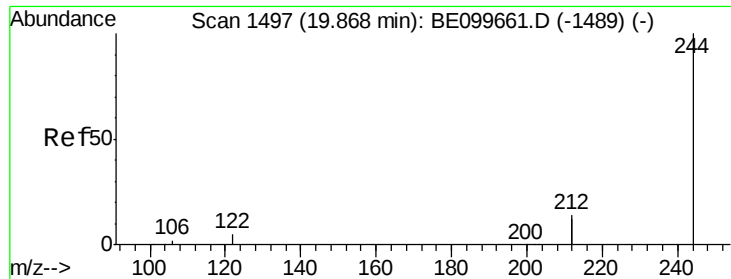
Abundance

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: 0.396 ng

RT: 19.87 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

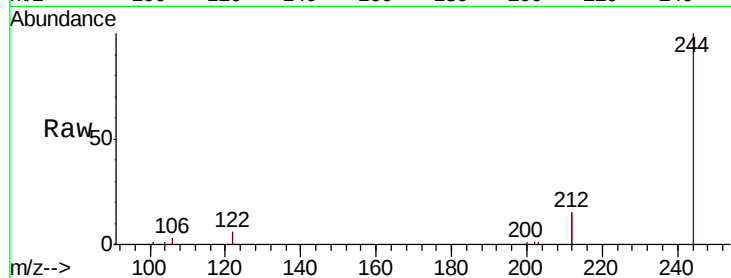
Tgt Ion:244 Resp: 10608

Ion Ratio Lower Upper

244 100

212 29.6 22.5 33.7

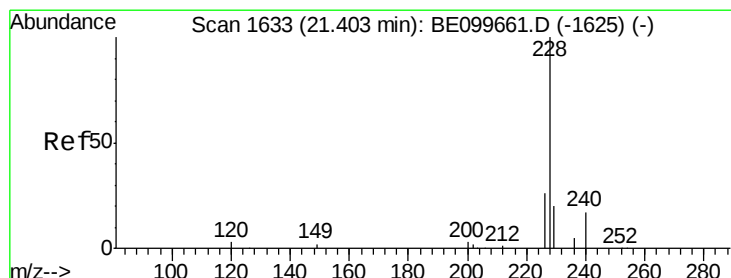
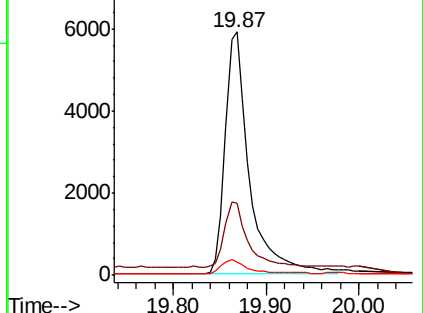
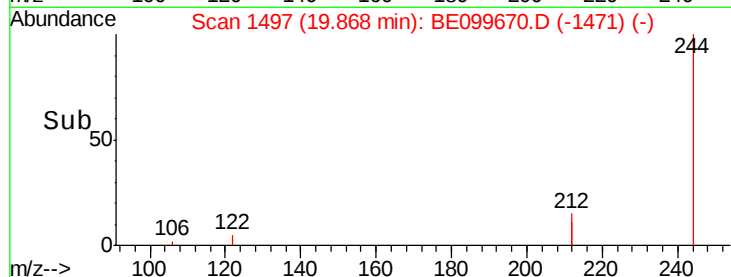
122 5.7 4.3 6.5



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: 0.394 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

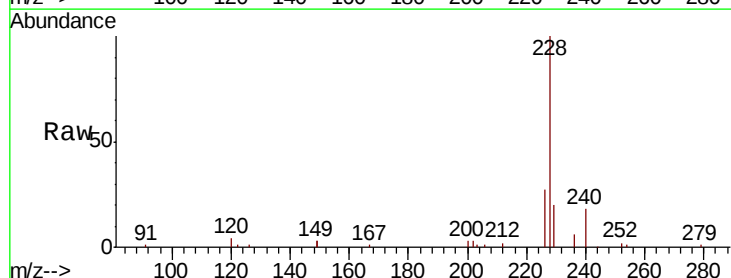
Tgt Ion:228 Resp: 16807

Ion Ratio Lower Upper

228 100

226 26.9 21.3 31.9

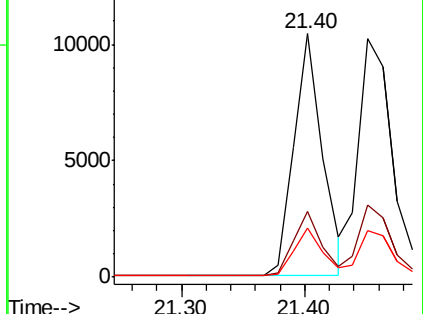
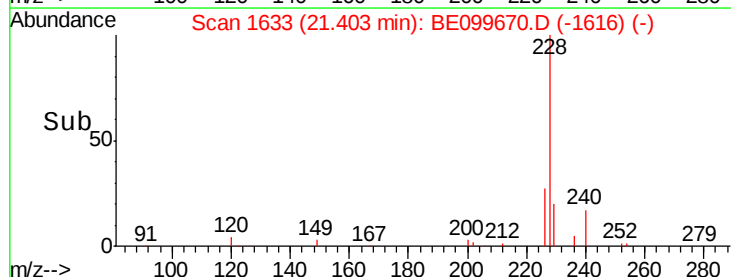
229 20.2 16.1 24.1

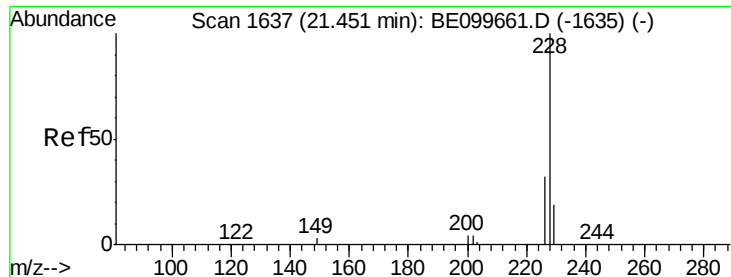


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.415 ng

RT: 21.45 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

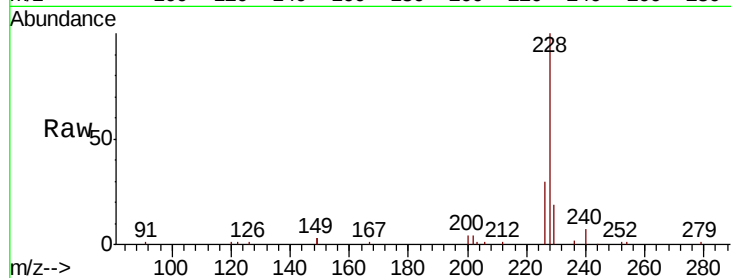
Tgt Ion:228 Resp: 18935

Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

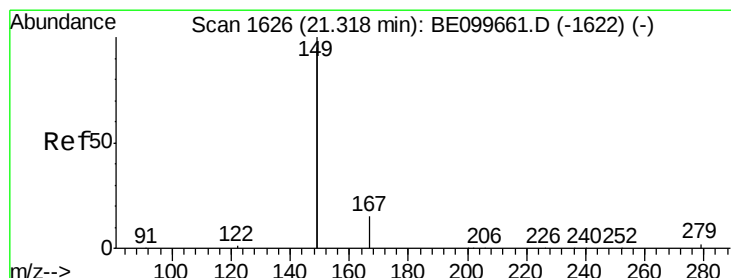
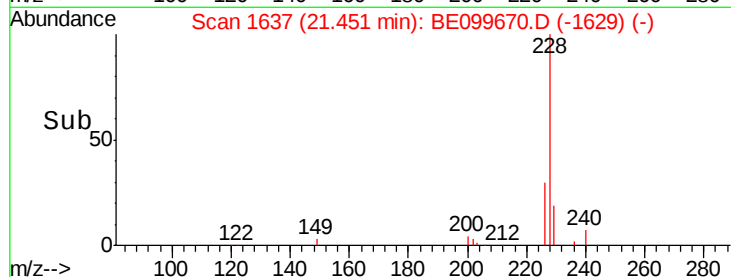
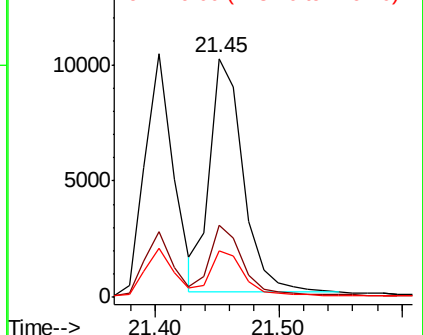
229 19.3 15.8 23.6



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: 0.313 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

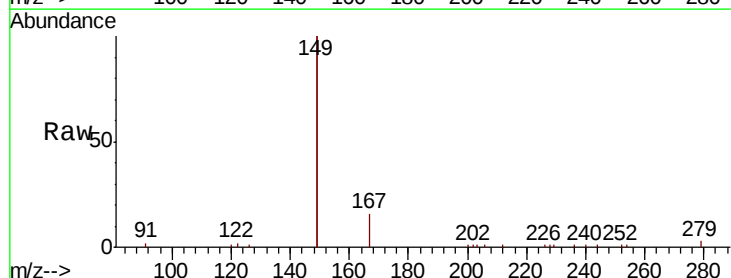
Tgt Ion:149 Resp: 15361

Ion Ratio Lower Upper

149 100

167 7.4 6.2 9.4

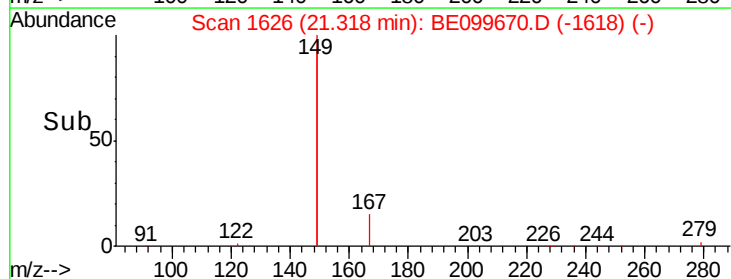
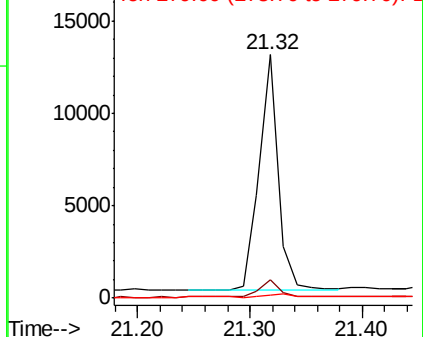
279 1.4 1.2 1.8

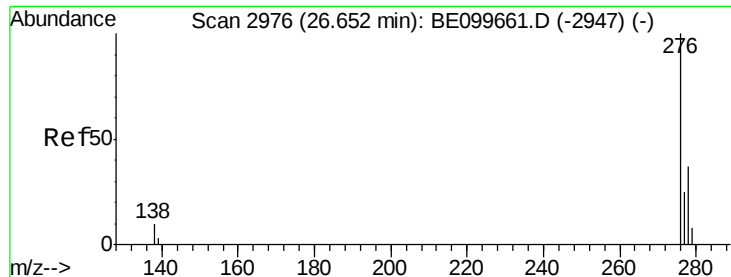


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.416 ng

RT: 26.65 min Scan# 2976

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

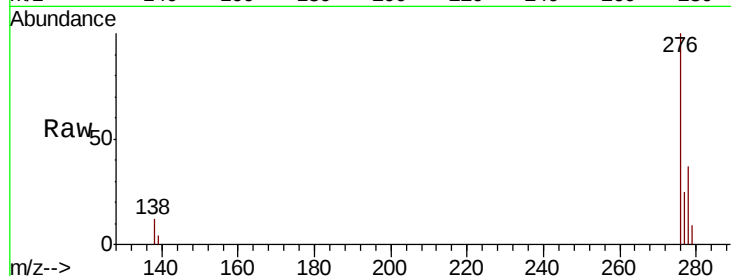
Tgt Ion:276 Resp: 22874

Ion Ratio Lower Upper

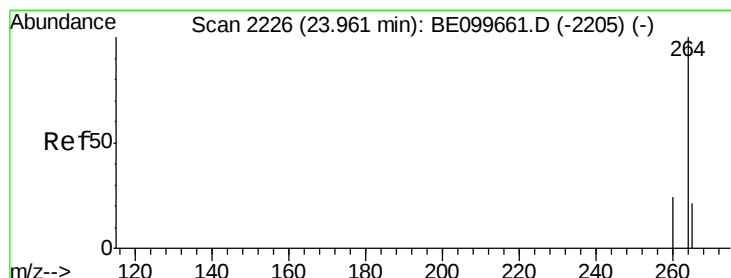
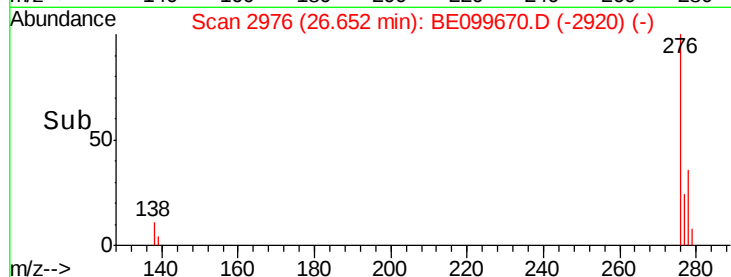
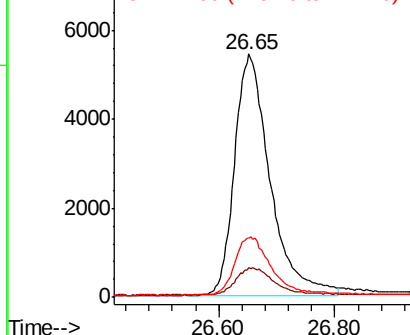
276 100

138 12.1 9.6 14.4

277 24.3 19.2 28.8



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: 23.96 min Scan# 2226

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

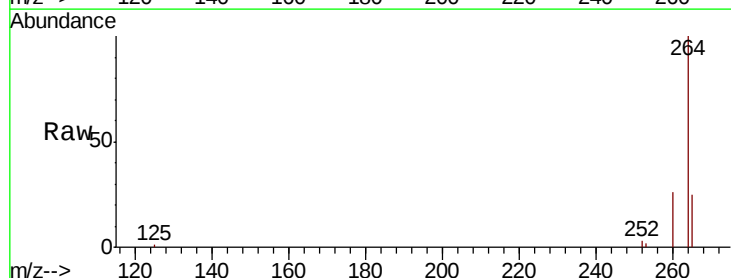
Tgt Ion:264 Resp: 18137

Ion Ratio Lower Upper

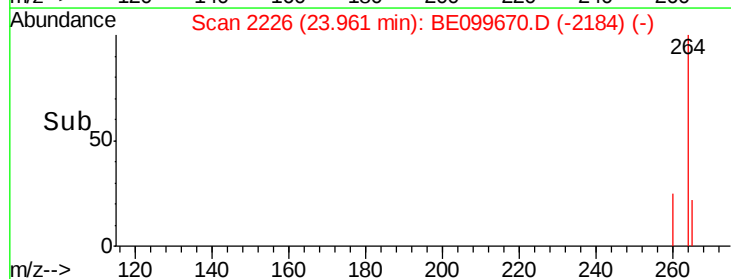
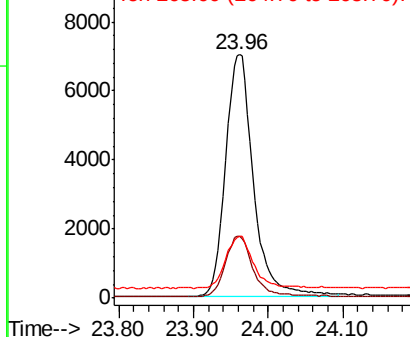
264 100

260 25.5 19.6 29.4

265 25.4 19.1 28.7



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

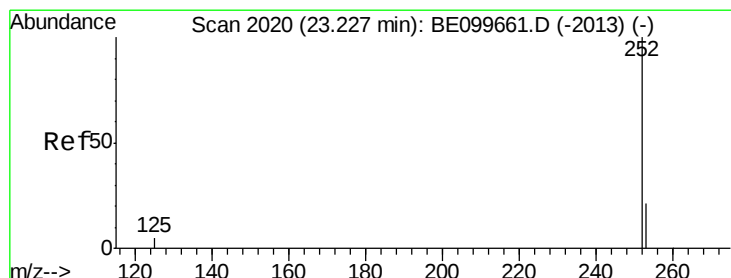
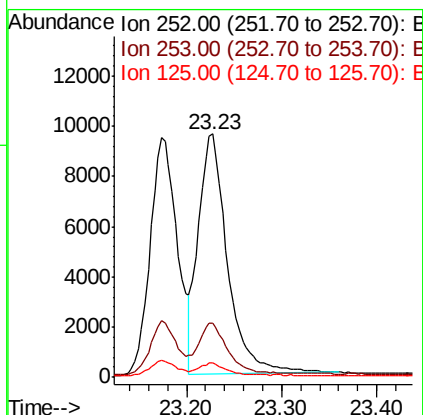
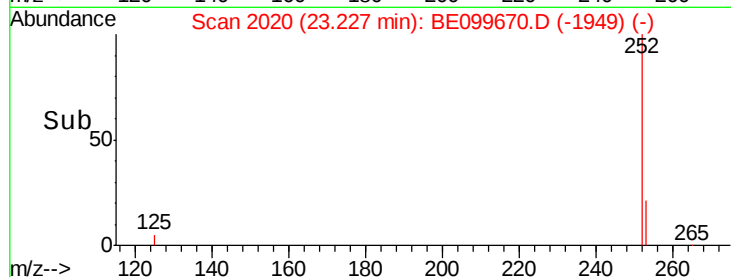
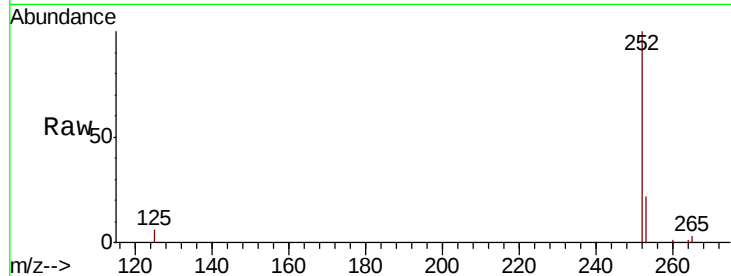




#35
Benzo(b)fluoranthene
Concen: 0.411 ng
RT: 23.23 min Scan# 2020
Delta R.T. 0.05 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

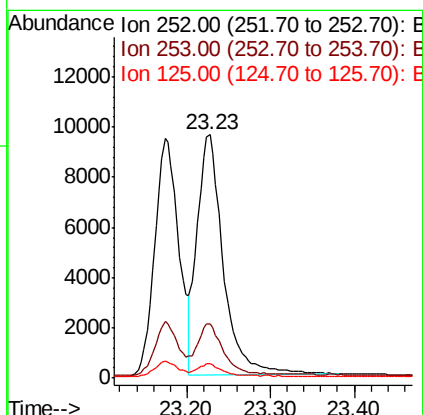
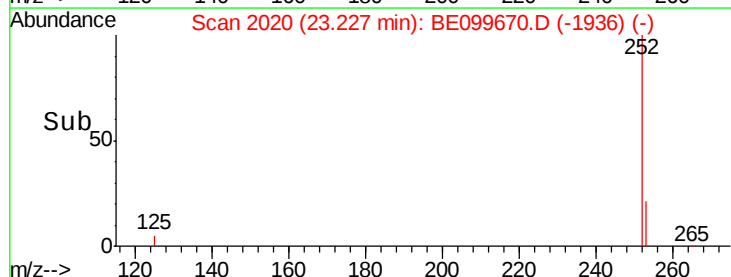
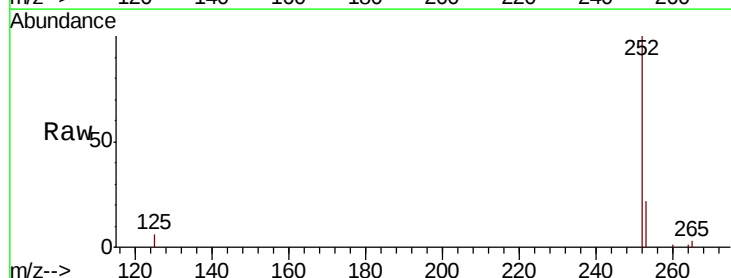
Instrument :
BNA_E
ClientSampleId :
PB119824BSD

Tgt Ion:252 Resp: 20413
Ion Ratio Lower Upper
252 100
253 22.4 18.2 27.4
125 5.8 4.5 6.7



#36
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.23 min Scan# 2020
Delta R.T. 0.00 min
Lab File: BE099670.D
Acq: 20 May 2019 21:07

Tgt Ion:252 Resp: 20800
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 5.8 4.6 6.8





#37

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.84 min Scan# 2193

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD

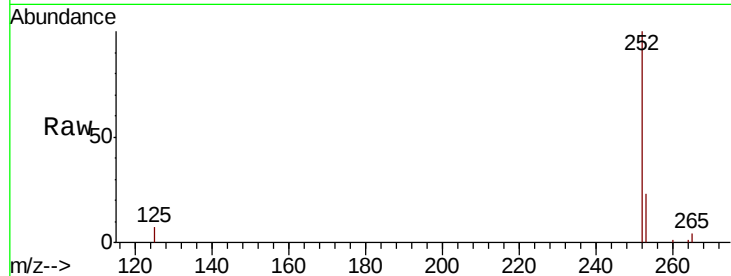
Tgt Ion:252 Resp: 18688

Ion Ratio Lower Upper

252 100

253 22.7 18.9 28.3

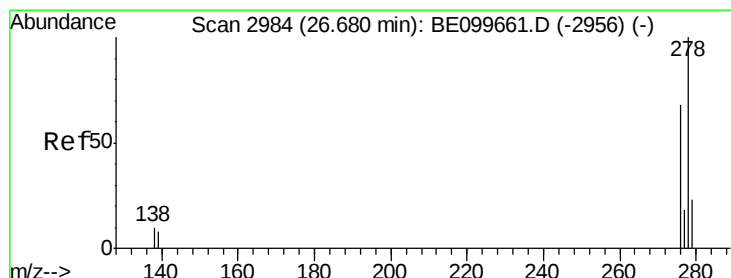
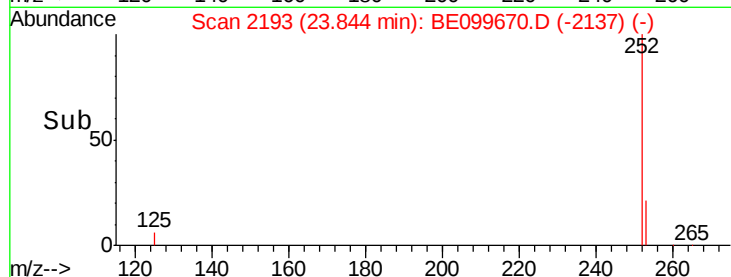
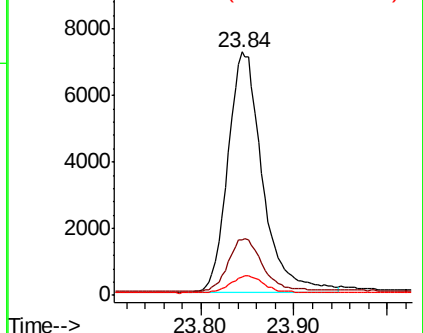
125 7.4 5.4 8.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 26.68 min Scan# 2984

Delta R.T. 0.00 min

Lab File: BE099670.D

Acq: 20 May 2019 21:07

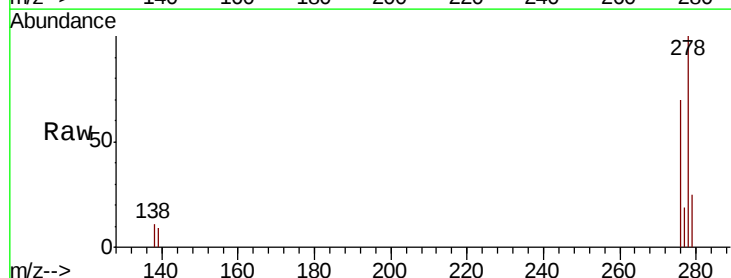
Tgt Ion:278 Resp: 18982

Ion Ratio Lower Upper

278 100

139 9.3 6.9 10.3

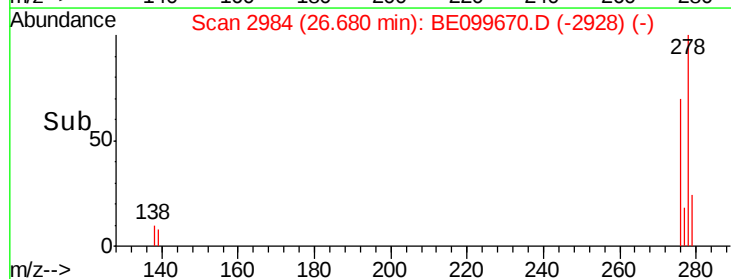
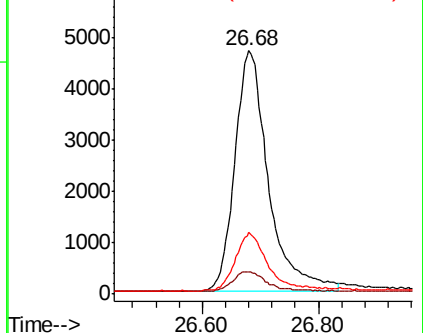
279 25.1 19.2 28.8

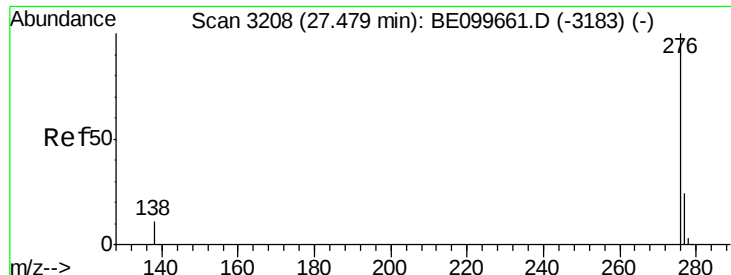


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.394 ng

RT: 27.48 min Scan# 3209

Delta R.T. 0.00 min

Lab File: BE099670.D

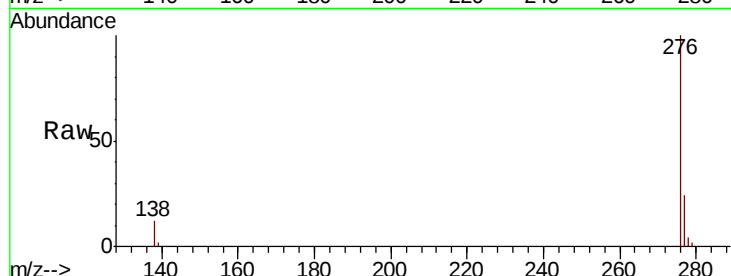
Acq: 20 May 2019 21:07

Instrument :

BNA_E

ClientSampleId :

PB119824BSD



Tgt Ion: 276 Resp: 19991

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.6

138 11.7 9.2 13.8

