

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050919\
 Data File : BE099591.D
 Acq On : 9 May 2019 16:34
 Operator : JU/SJ
 Sample : PB119482BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

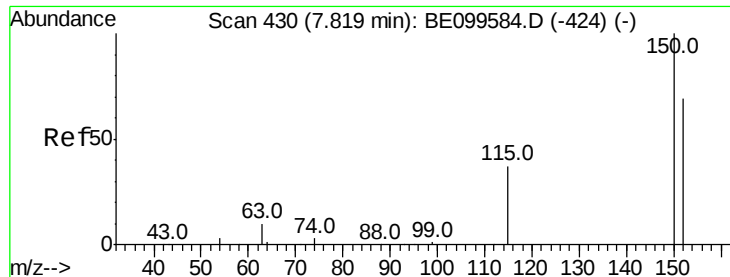
Quant Time: May 10 07:03:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 09 13:32:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	1916	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	6705	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	4553	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	13288	0.40	ng	0.00
27) Chrysene-d12	21.43	240	17757	0.40	ng	0.00
34) Perylene-d12	23.97	264	20455	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1757	0.34	ng	0.00
5) Phenol-d6	6.99	99	2442	0.35	ng	0.00
8) Nitrobenzene-d5	8.98	82	2131	0.34	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	5112	0.46	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	819	0.30	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	5937	0.34	ng	0.00
25) Fluoranthene-d10	19.27	212	59037	0.34	ng	0.00
29) Terphenyl-d14	19.87	244	12747	0.40	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.31	88	832	0.308	ng	# 63
3) n-Nitrosodimethylamine	3.62	42	532	0.318	ng	# 91
6) bis(2-Chloroethyl)ether	7.24	93	1996	0.349	ng	97
9) Naphthalene	10.68	128	25694	0.360	ng	100
10) Hexachlorobutadiene	10.95	225	1734	0.336	ng	95
12) 2-Methylnaphthalene	12.30	142	4330	0.371	ng	97
16) Acenaphthylene	14.21	152	7188	0.326	ng	99
17) Acenaphthene	14.56	154	4272	0.347	ng	98
18) Fluorene	15.53	166	6109	0.348	ng	98
20) 4-Bromophenyl-phenylether	16.42	248	2459	0.324	ng	99
21) Hexachlorobenzene	16.54	284	2571	0.338	ng	99
22) Pentachlorophenol	16.91	266	582	0.386	ng	95
23) Phenanthrene	17.28	178	11481	0.348	ng	99
24) Anthracene	17.37	178	10509	0.339	ng	99
26) Fluoranthene	19.30	202	17543	0.353	ng	99
28) Pyrene	19.67	202	18141	0.388	ng	99
30) Benzo(a)anthracene	21.40	228	21993	0.406	ng	97
31) Chrysene	21.46	228	20822	0.384	ng	98
32) Bis(2-ethylhexyl)phthalate	21.32	149	32700	0.420	ng	100
33) Indeno(1,2,3-cd)pyrene	26.67	276	25459	0.376	ng	100
35) Benzo(b)fluoranthene	23.18	252	21272	0.376	ng	100
36) Benzo(k)fluoranthene	23.24	252	21435	0.382	ng	98
37) Benzo(a)pyrene	23.86	252	20706	0.378	ng	99
38) Dibenzo(a,h)anthracene	26.70	278	21399	0.374	ng	99
39) Benzo(g,h,i)perylene	27.50	276	21485	0.371	ng	99

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

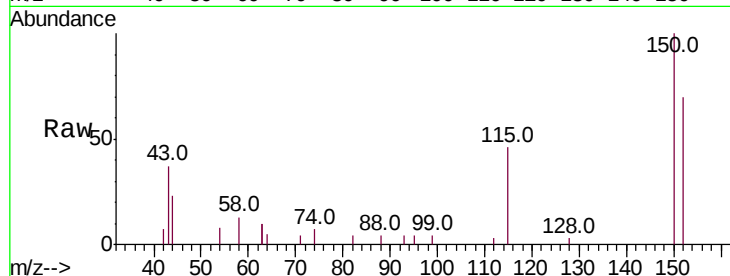


#1

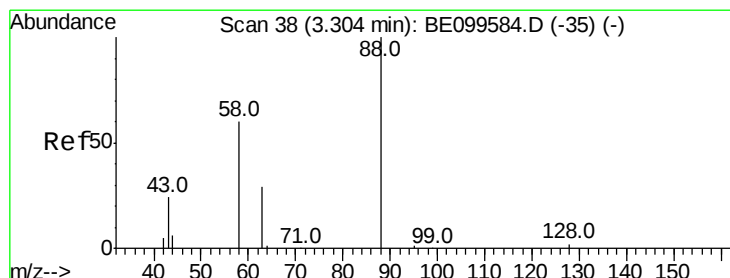
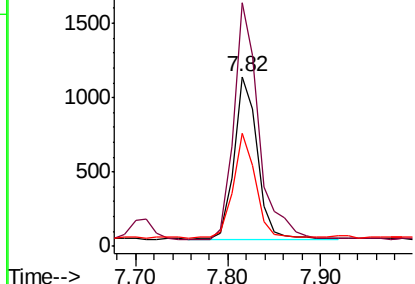
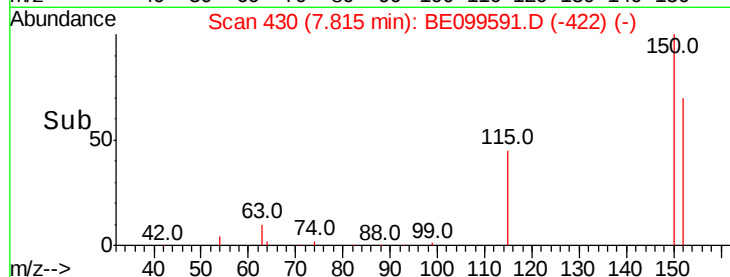
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1916
Ion Ratio Lower Upper
152 100
150 143.3 114.2 171.4
115 66.5 45.4 68.0



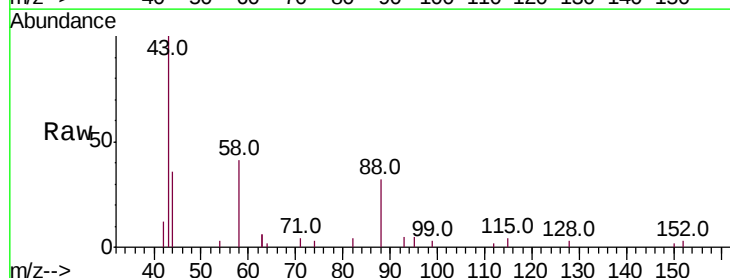
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



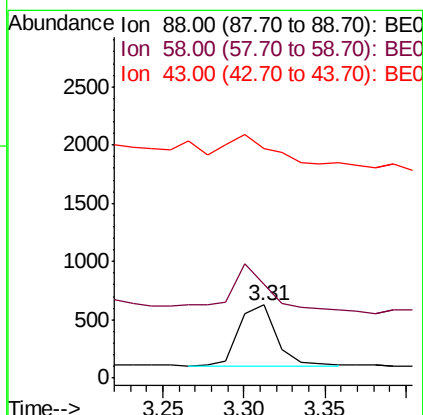
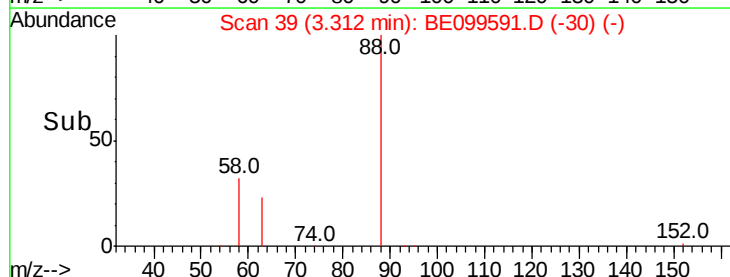
#2

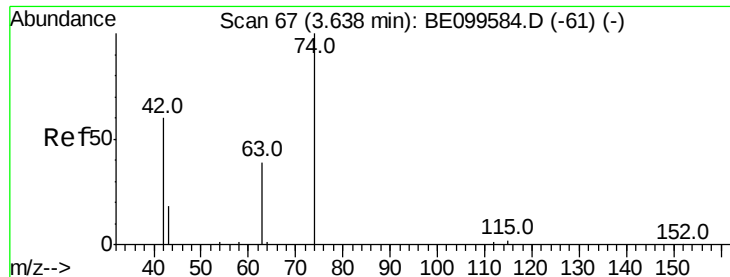
1,4-Dioxane
Concen: 0.308 ng
RT: 3.31 min Scan# 39
Delta R.T. 0.01 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Tgt Ion: 88 Resp: 832
Ion Ratio Lower Upper
88 100
58 72.2 41.3 61.9#
43 53.5 21.0 31.6#



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: 0.318 ng

RT: 3.62 min Scan# 66

Delta R.T. -0.02 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampled :

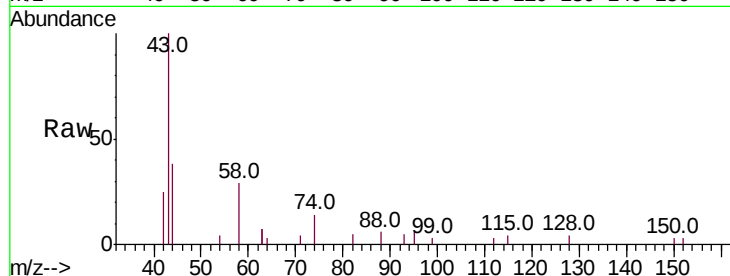
Tot Ion: 42 Resp: 532

Ion Ratio Lower Upper

42 100

74 181.8 136.9 205.3

44 0.0 7.1 10.7#



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

800

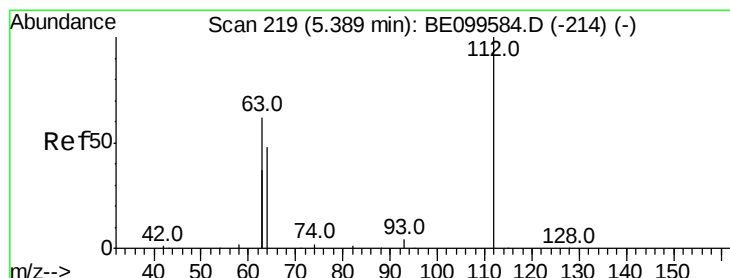
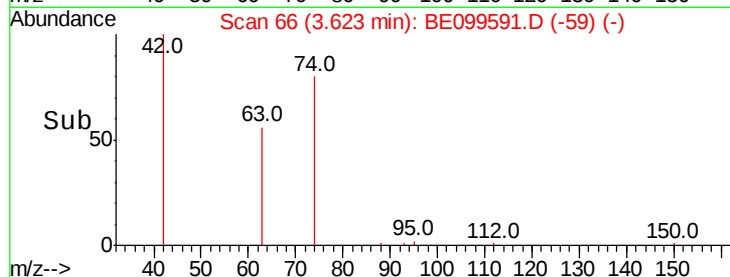
600

400

200

0

Time-->



#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

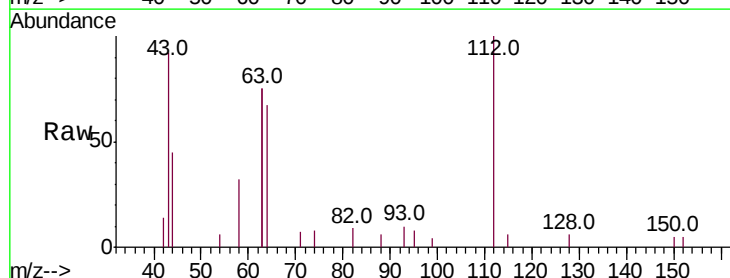
Tgt Ion: 112 Resp: 1757

Ion Ratio Lower Upper

112 100

64 59.1 46.2 69.4

63 126.4 100.2 150.4



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

2000

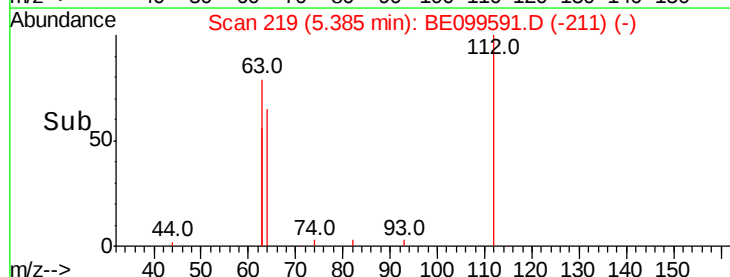
1500

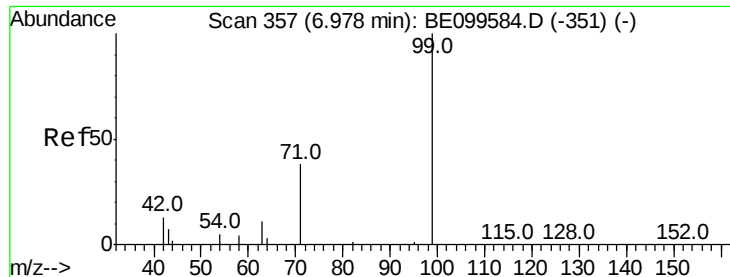
1000

500

0

Time-->





#5

Phenol-d6

Concen: 0.355 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

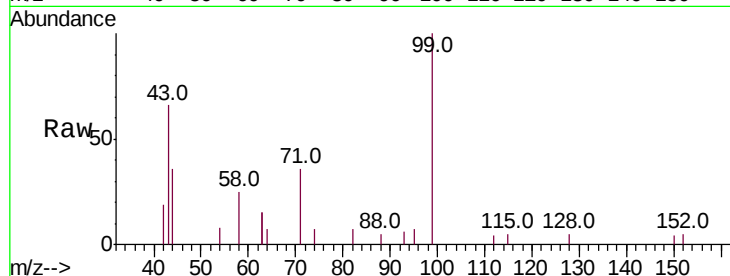
Tot Ion: 99 Resp: 2442

Ion Ratio Lower Upper

99 100

42 15.4 13.8 20.8

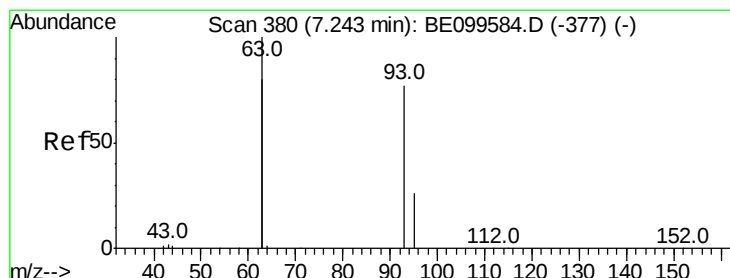
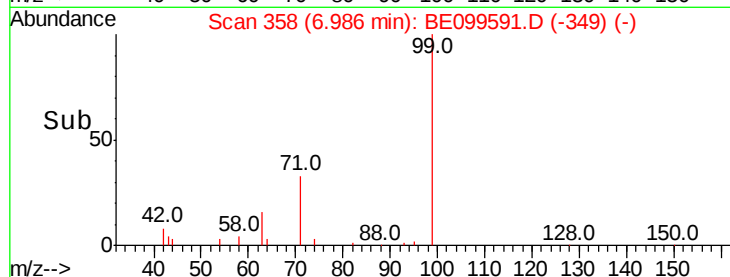
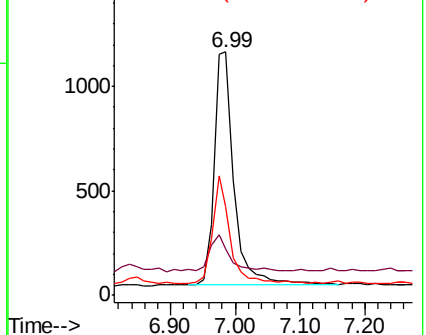
71 39.6 32.2 48.4



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



#6

bis(2-Chloroethyl)ether

Concen: 0.349 ng

RT: 7.24 min Scan# 380

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

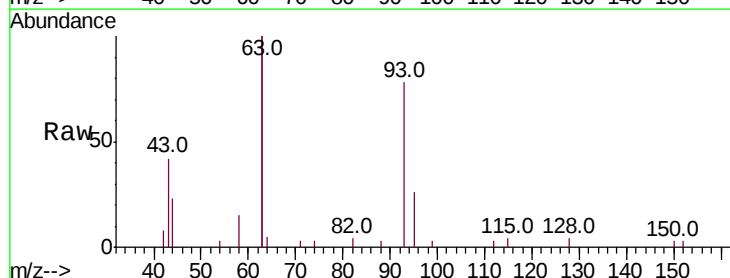
Tgt Ion: 93 Resp: 1996

Ion Ratio Lower Upper

93 100

63 260.6 213.4 320.0

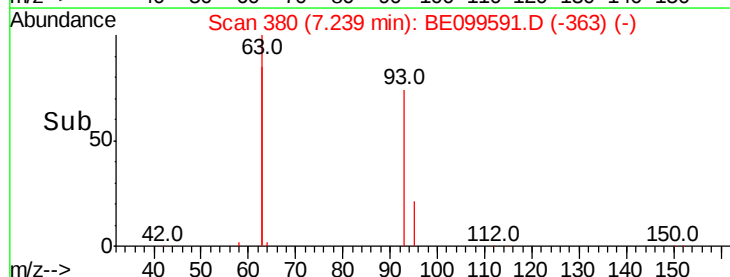
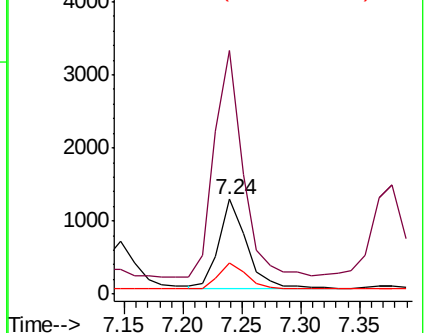
95 31.6 24.9 37.3

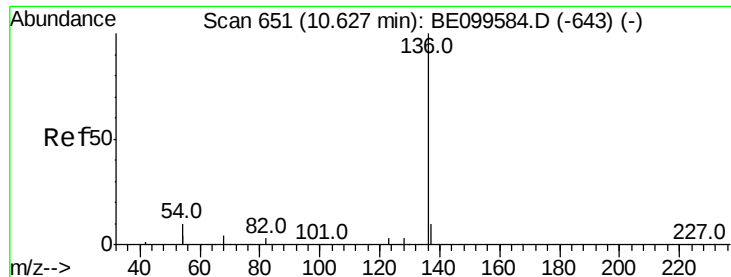


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 6705

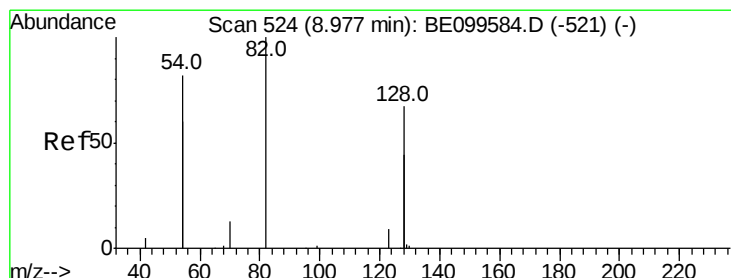
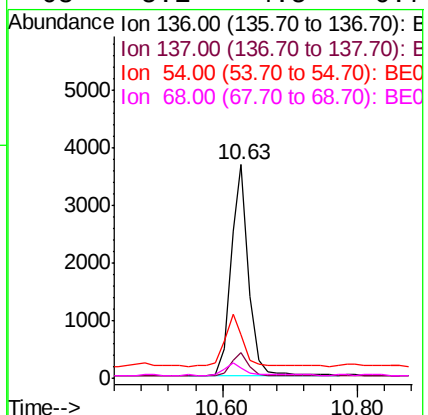
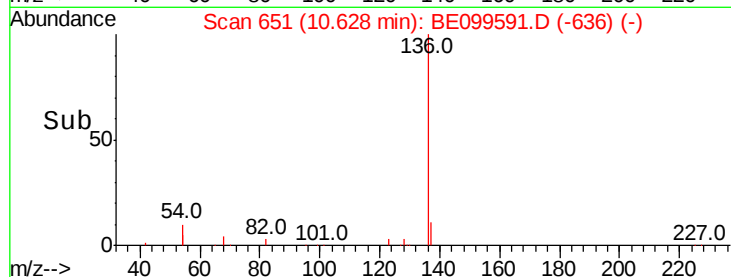
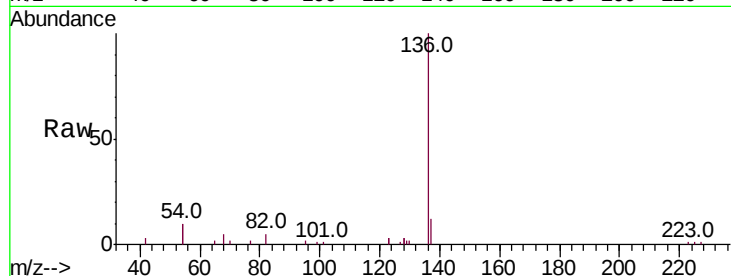
Ion Ratio Lower Upper

136 100

137 12.1 9.1 13.7

54 20.6 16.5 24.7

68 5.1 4.5 6.7



#8

Nitrobenzene-d5

Concen: 0.339 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

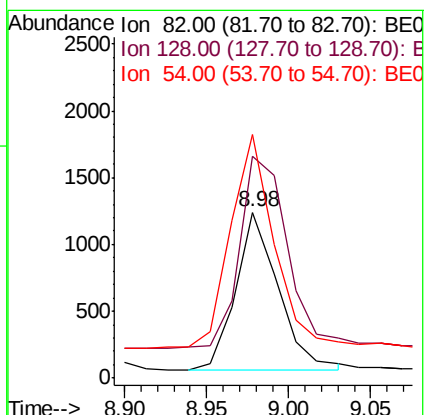
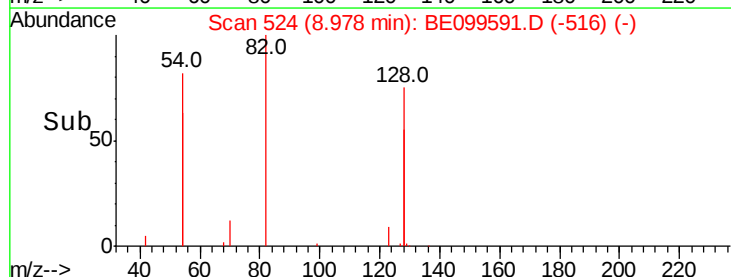
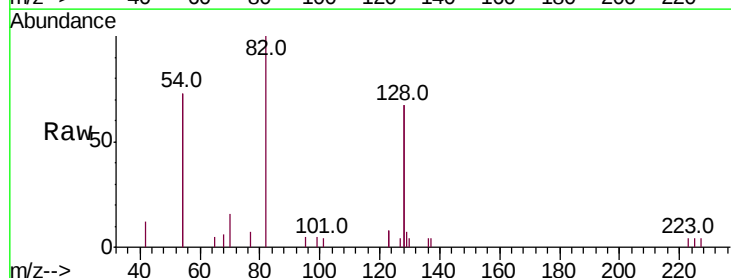
Tgt Ion: 82 Resp: 2131

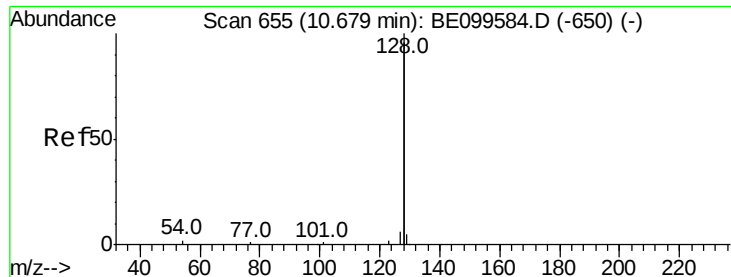
Ion Ratio Lower Upper

82 100

128 133.9 101.5 152.3

54 146.8 123.8 185.6





#9

Naphthalene

Concen: 0.360 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

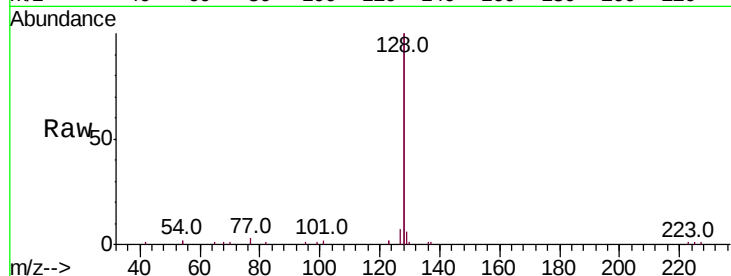
Tot Ion:128 Resp: 25694

Ion Ratio Lower Upper

128 100

129 3.0 2.4 3.6

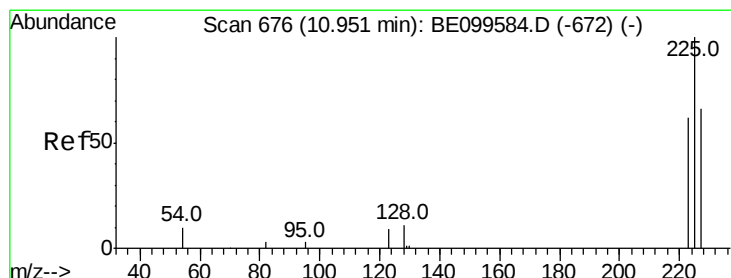
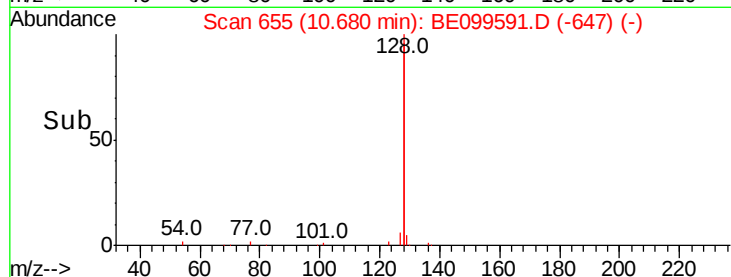
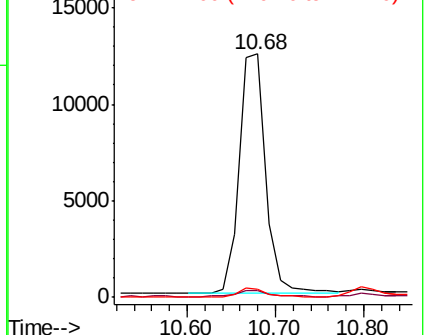
127 3.5 2.8 4.2



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



#10

Hexachlorobutadiene

Concen: 0.336 ng

RT: 10.95 min Scan# 676

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

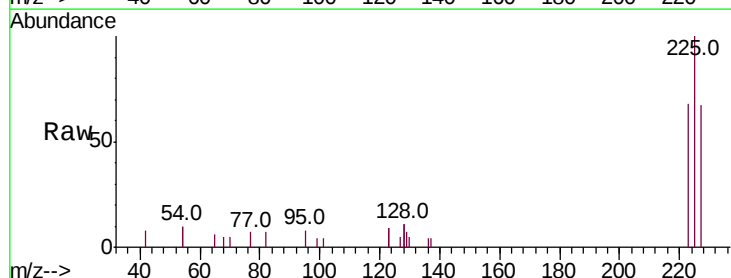
Tgt Ion:225 Resp: 1734

Ion Ratio Lower Upper

225 100

223 65.8 49.6 74.4

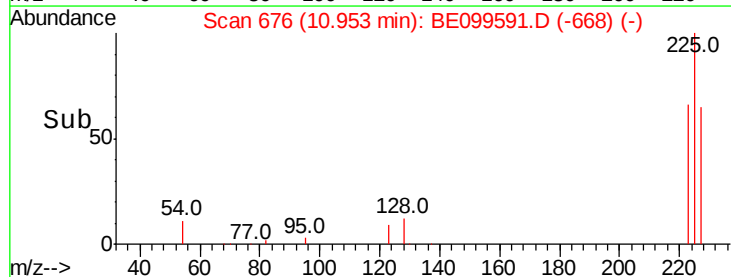
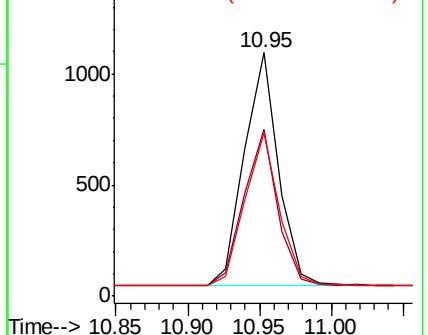
227 66.4 50.1 75.1

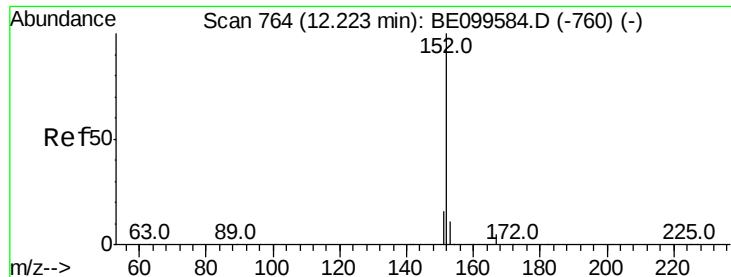


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.455 ng

RT: 12.22 min Scan# 764

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

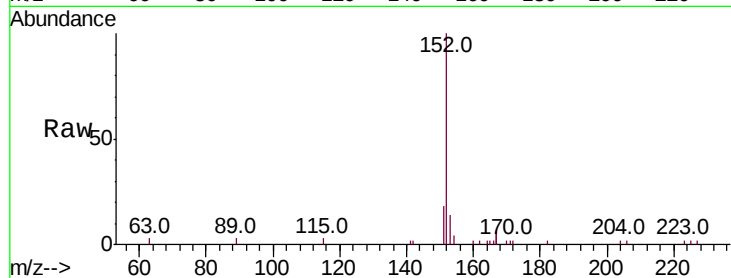
ClientSampleId :

Tot Ion:152 Resp: 5112

Ion Ratio Lower Upper

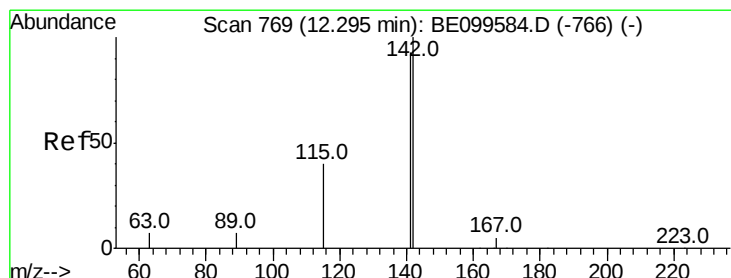
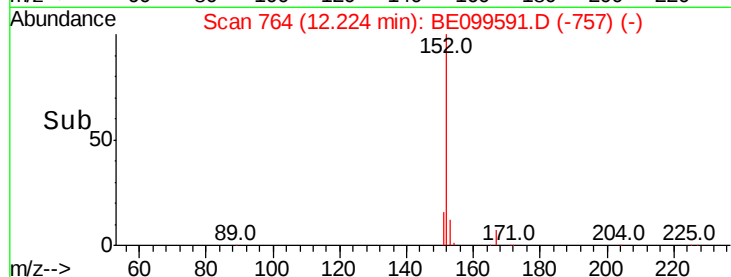
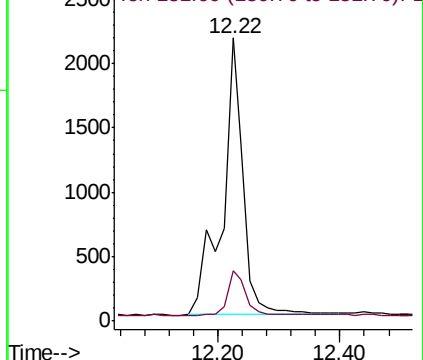
152 100

151 14.2 16.2 24.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.371 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

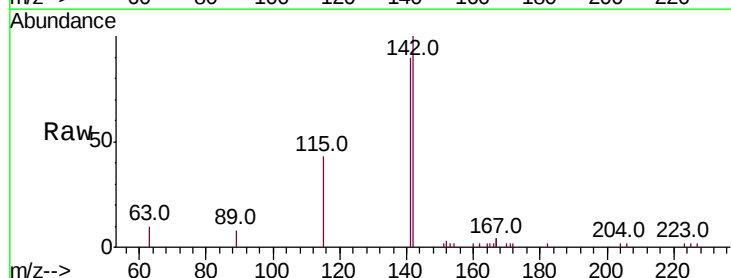
Tgt Ion:142 Resp: 4330

Ion Ratio Lower Upper

142 100

141 90.4 75.0 112.4

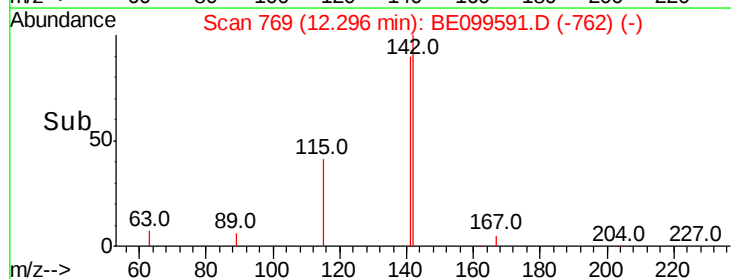
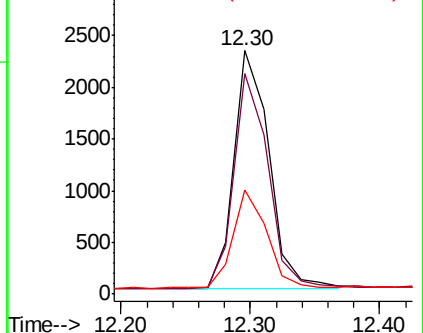
115 43.0 33.7 50.5

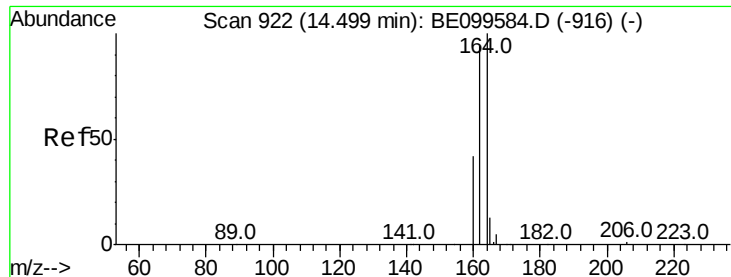


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

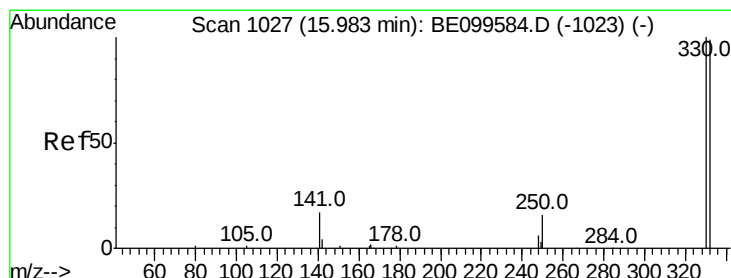
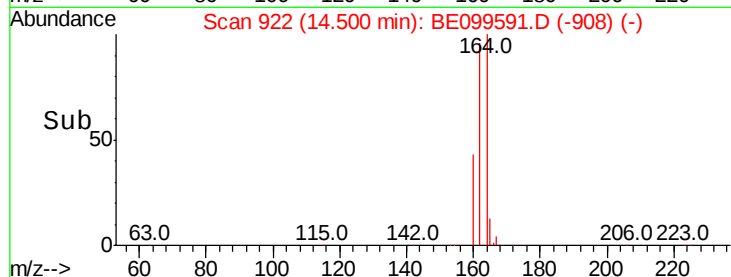
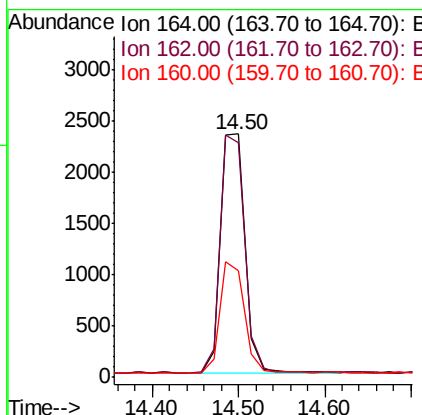
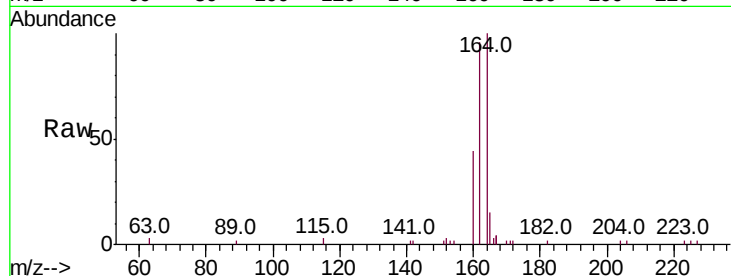




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.50 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: BE099591.D
 Acq: 9 May 2019 16:34

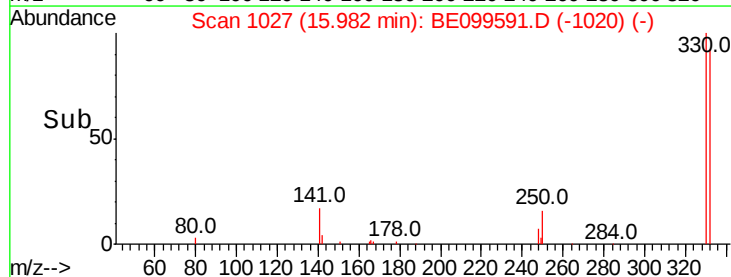
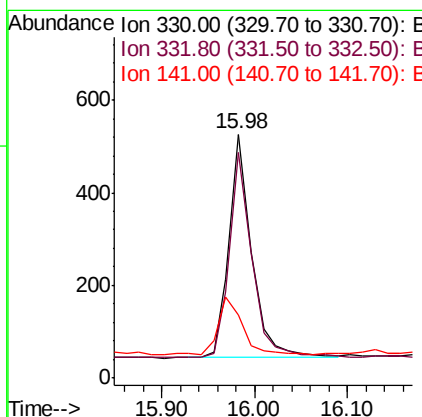
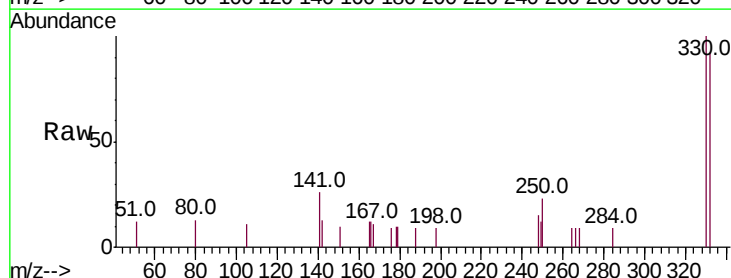
Instrument :
 BNA_E
 ClientSampleId :

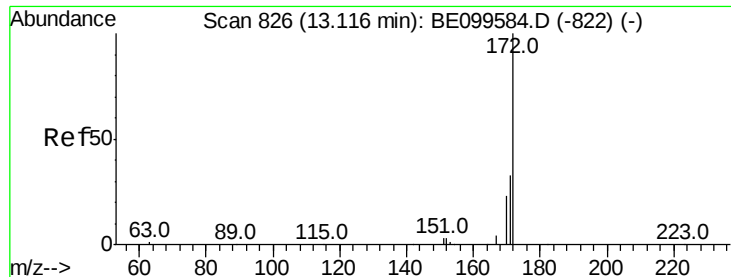
Tot Ion:164 Resp: 4553
 Ion Ratio Lower Upper
 164 100
 162 96.3 75.3 112.9
 160 43.7 34.7 52.1



#14
 2,4,6-Tribromophenol
 Concen: 0.303 ng
 RT: 15.98 min Scan# 1027
 Delta R.T. -0.00 min
 Lab File: BE099591.D
 Acq: 9 May 2019 16:34

Tgt Ion:330 Resp: 819
 Ion Ratio Lower Upper
 330 100
 332 91.9 78.7 118.1
 141 27.1 22.3 33.5

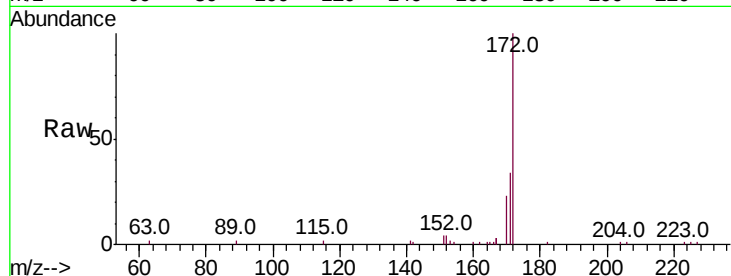




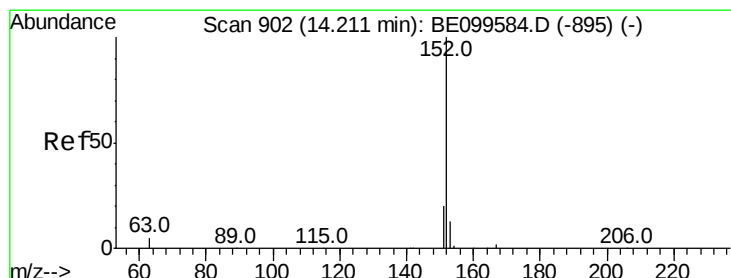
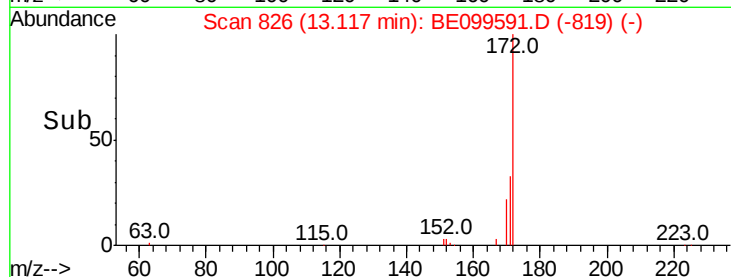
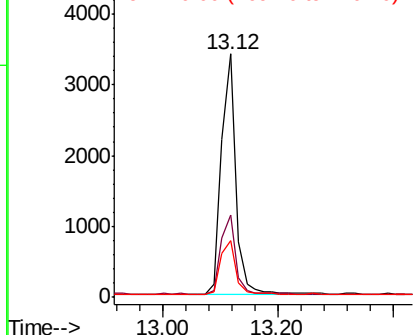
#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 5937
Ion Ratio Lower Upper
172 100
171 33.7 27.5 41.3
170 23.4 19.1 28.7

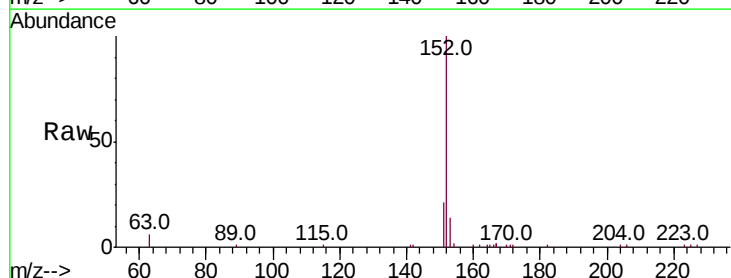


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

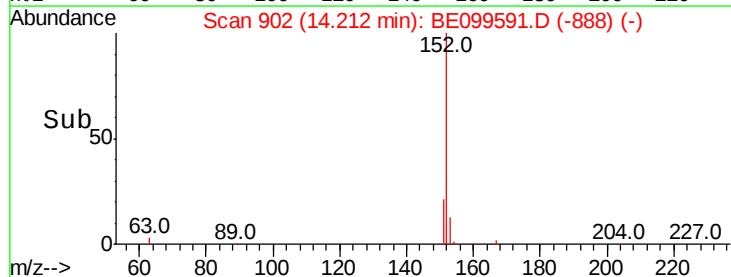
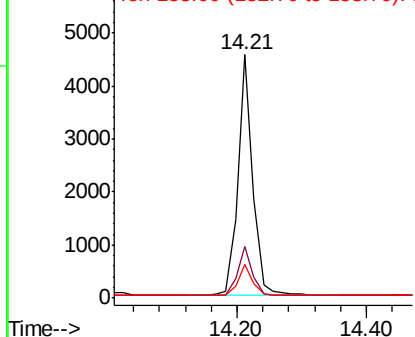


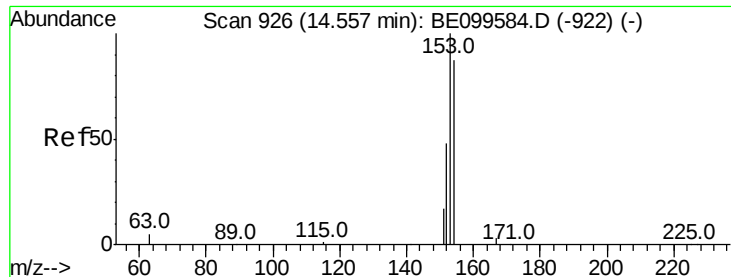
#16
Acenaphthylene
Concen: 0.326 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Tgt Ion:152 Resp: 7188
Ion Ratio Lower Upper
152 100
151 20.1 15.5 23.3
153 13.0 10.2 15.4



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

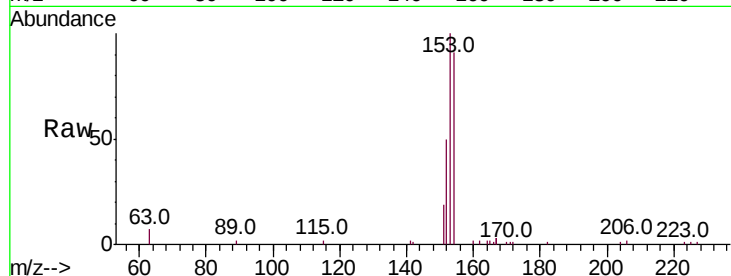




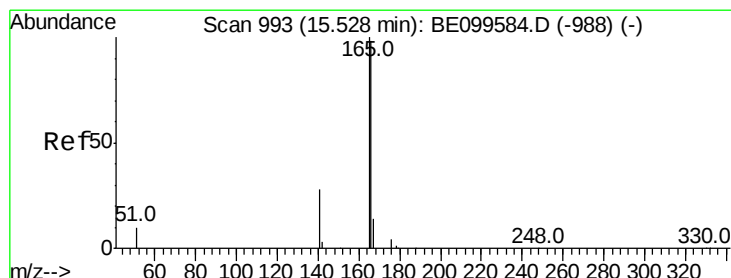
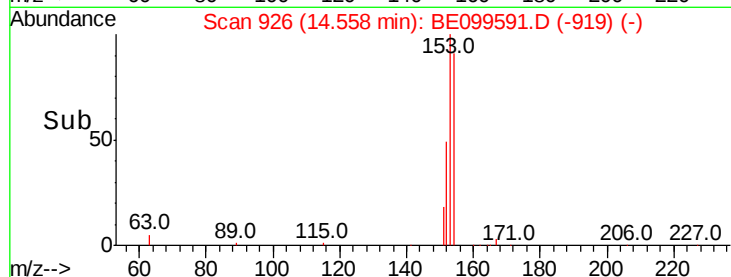
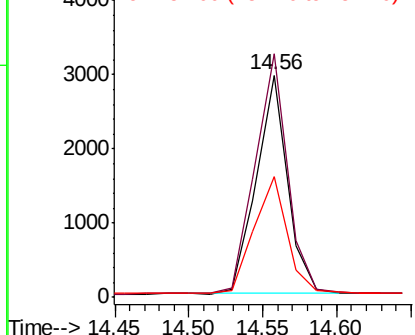
#17
Acenaphthene
Concen: 0.347 ng
RT: 14.56 min Scan# 926
Delta R.T. 0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Instrument :
BNA_E
ClientSampleId :

Tot Ion:154 Resp: 4272
Ion Ratio Lower Upper
154 100
153 113.9 92.9 139.3
152 56.6 46.3 69.5

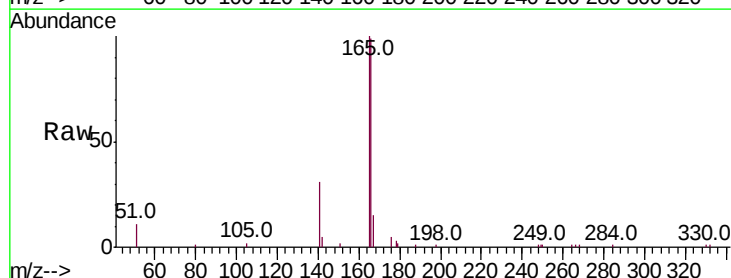


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

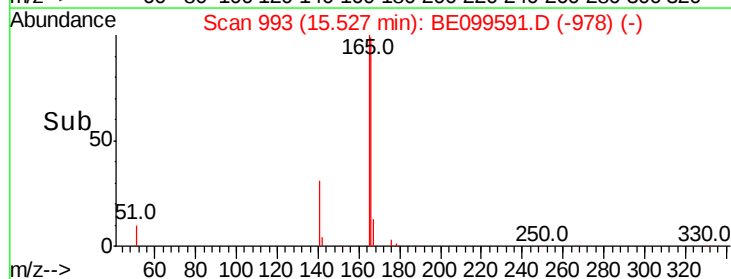
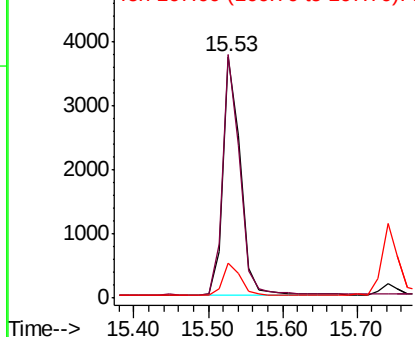


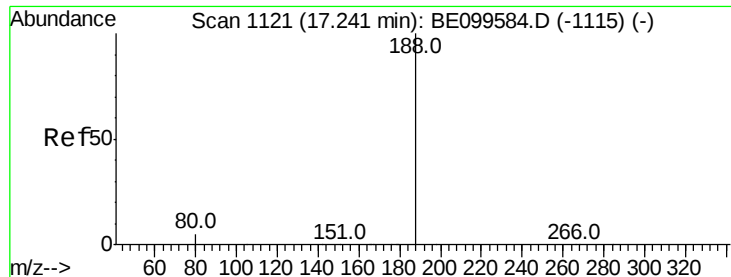
#18
Fluorene
Concen: 0.348 ng
RT: 15.53 min Scan# 993
Delta R.T. -0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Tgt Ion:166 Resp: 6109
Ion Ratio Lower Upper
166 100
165 98.6 80.5 120.7
167 13.5 11.6 17.4



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

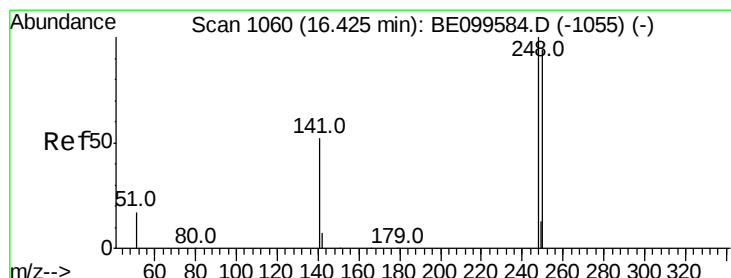
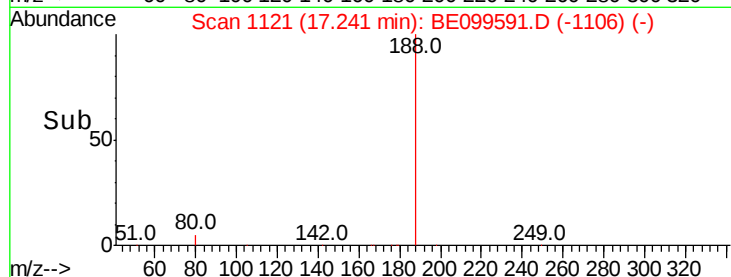
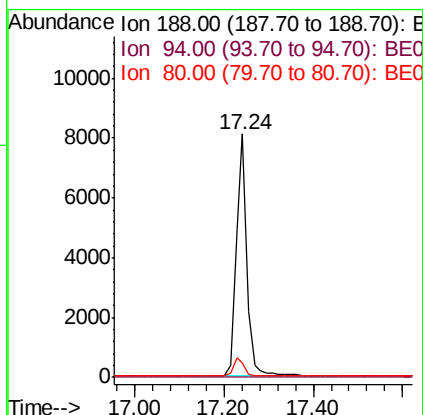
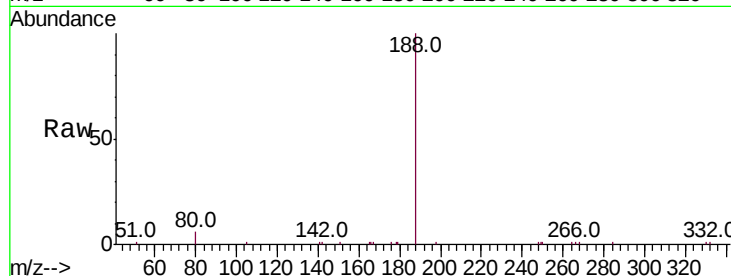




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

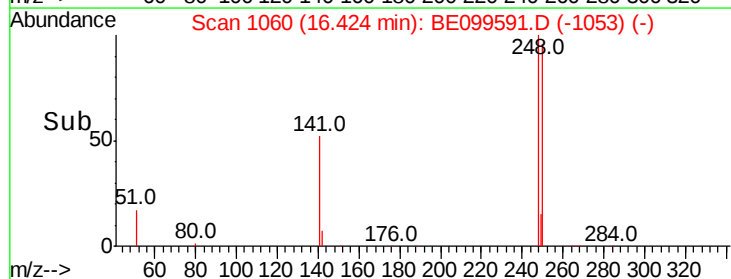
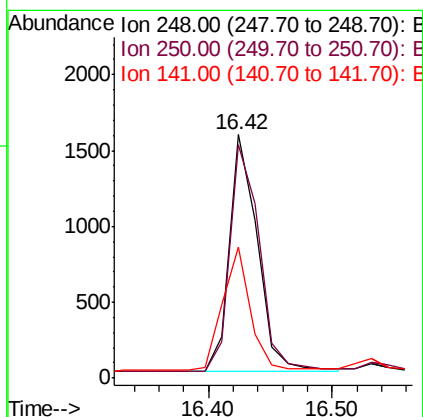
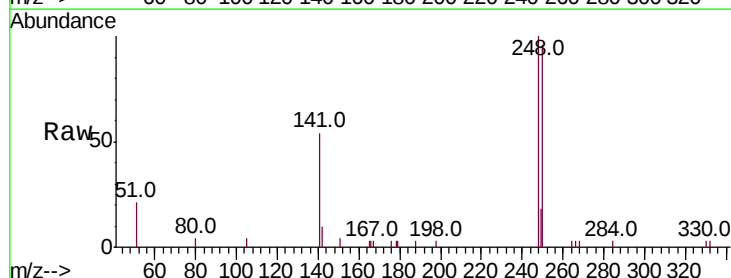
Instrument :
BNA_E
ClientSampled :

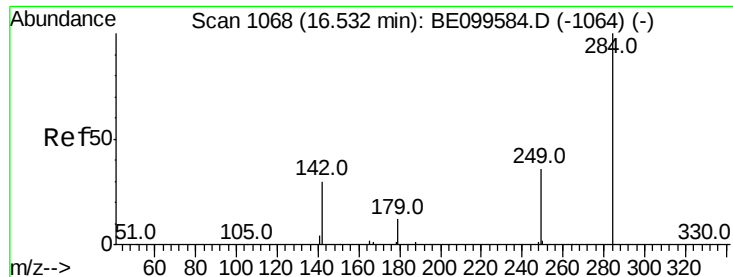
Tot Ion:188 Resp: 13288
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.7 4.4 6.6



#20
4-Bromophenyl-phenylether
Concen: 0.324 ng
RT: 16.42 min Scan# 1060
Delta R.T. -0.00 min
Lab File: BE099591.D
Acq: 9 May 2019 16:34

Tgt Ion:248 Resp: 2459
Ion Ratio Lower Upper
248 100
250 96.0 75.7 113.5
141 53.8 42.9 64.3





#21

Hexachlorobenzene

Concen: 0.338 ng

RT: 16.54 min Scan# 1069

Delta R.T. 0.01 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

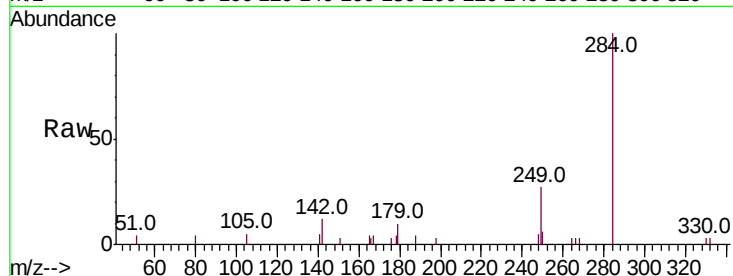
Tot Ion:284 Resp: 2571

Ion Ratio Lower Upper

284 100

142 25.5 20.6 30.8

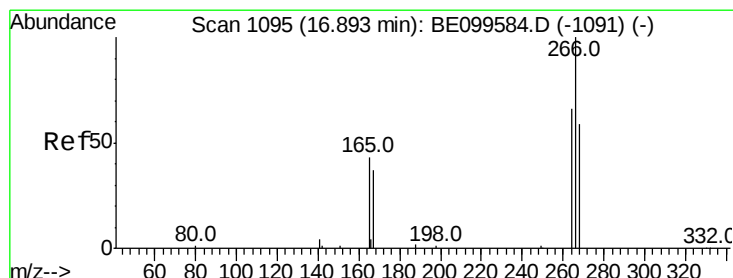
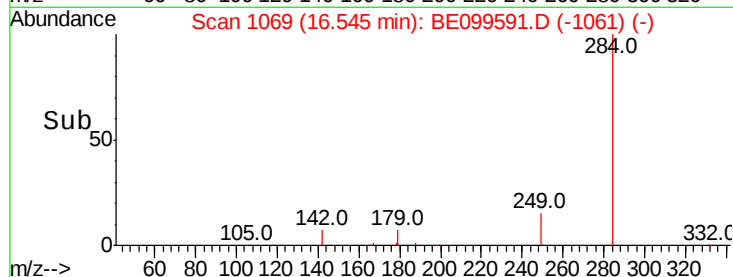
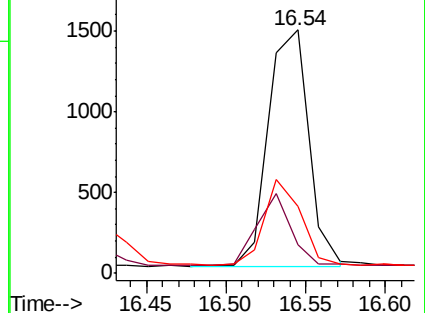
249 32.7 25.8 38.6



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: 0.386 ng

RT: 16.91 min Scan# 1096

Delta R.T. 0.01 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

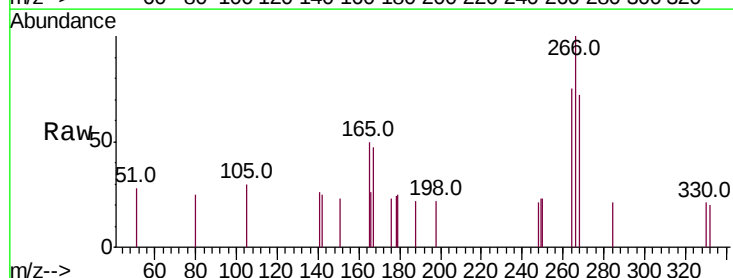
Tgt Ion:266 Resp: 582

Ion Ratio Lower Upper

266 100

264 74.9 57.3 85.9

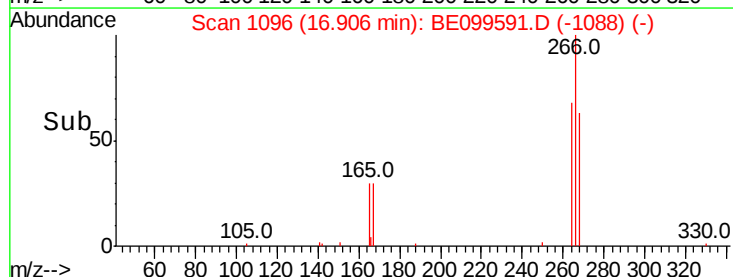
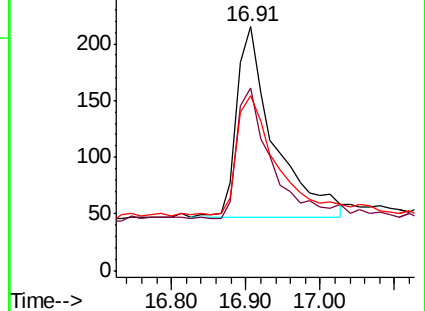
268 71.6 53.5 80.3

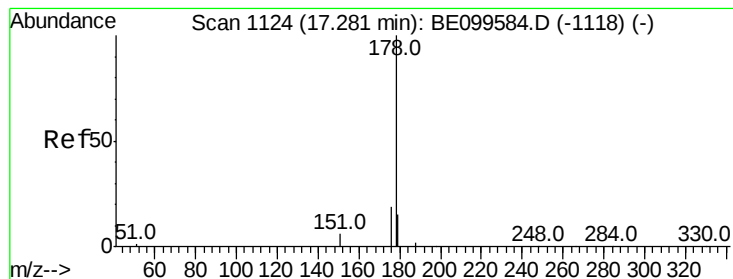


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.348 ng

RT: 17.28 min Scan# 1124

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

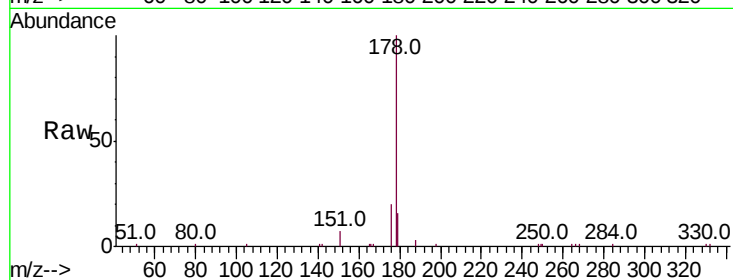
Instrument :

BNA_E

ClientSampleId :

Tot Ion:178 Resp: 11481

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.1	12.2	18.2

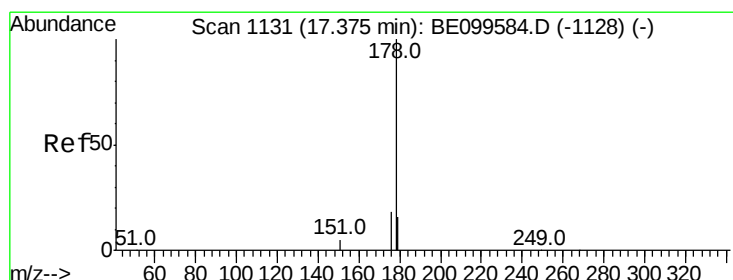
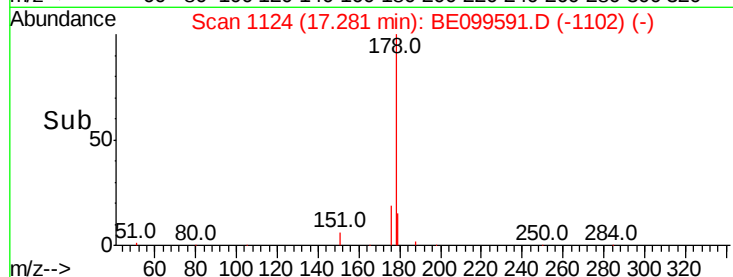
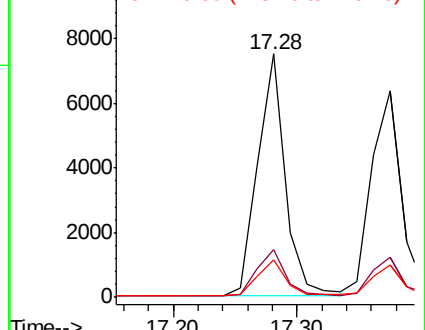


Abundance

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: 0.339 ng

RT: 17.37 min Scan# 1131

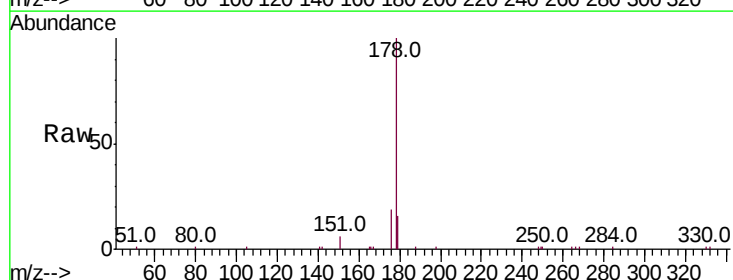
Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Tgt Ion:178 Resp: 10509

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.8	22.2
179	14.5	12.3	18.5

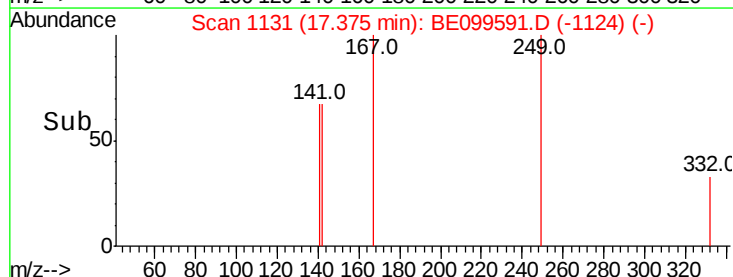
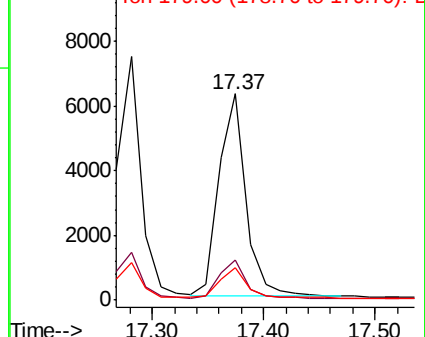


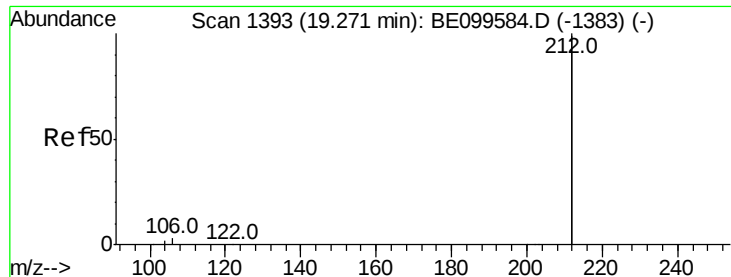
Abundance

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: 0.338 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

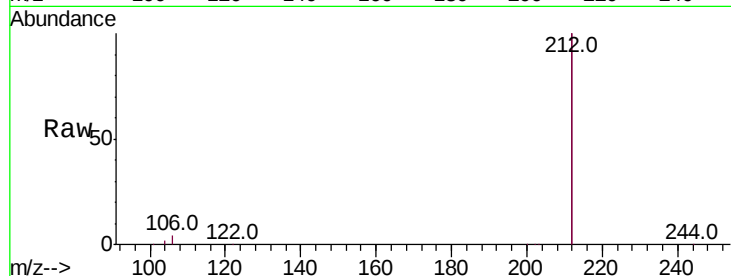
Tot Ion:212 Resp: 59037

Ion Ratio Lower Upper

212 100

106 1.9 1.4 2.2

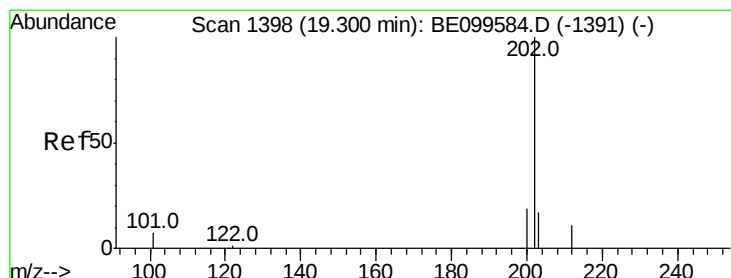
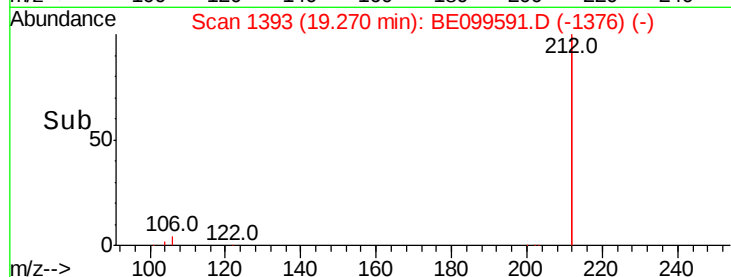
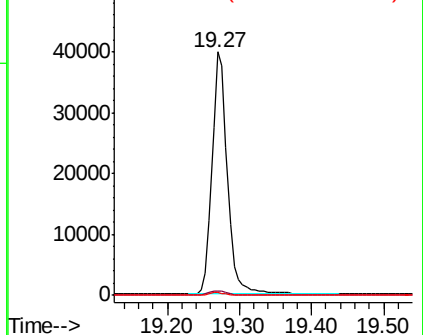
104 1.0 0.9 1.3



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.353 ng

RT: 19.30 min Scan# 1398

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

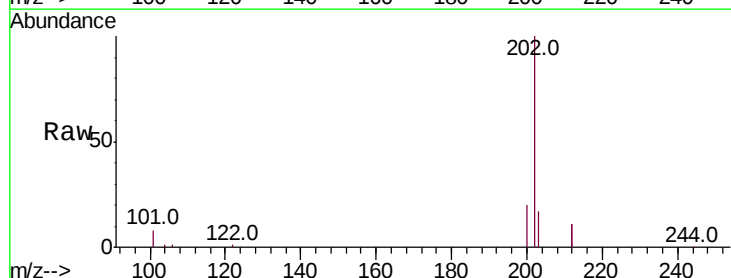
Tgt Ion:202 Resp: 17543

Ion Ratio Lower Upper

202 100

101 6.9 5.4 8.2

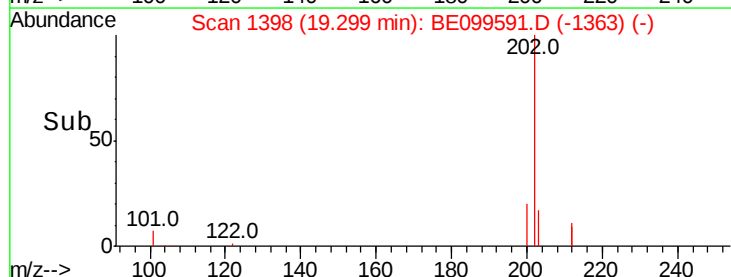
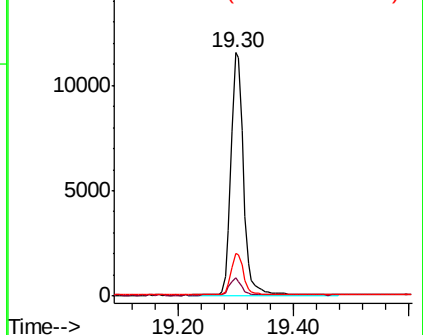
203 16.8 13.7 20.5

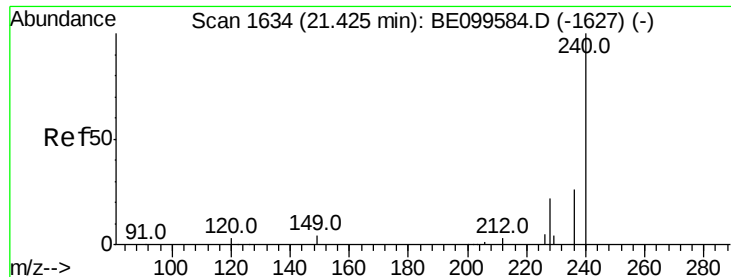


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

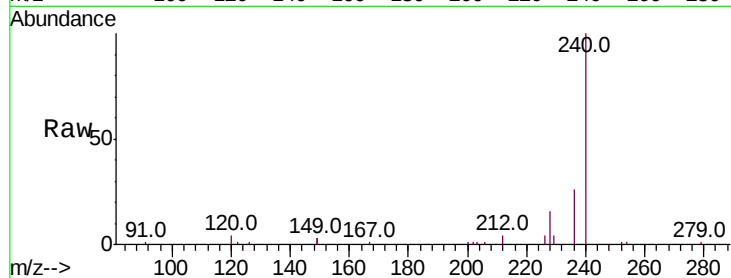
Tot Ion:240 Resp: 17757

Ion Ratio Lower Upper

240 100

120 3.6 3.2 4.8

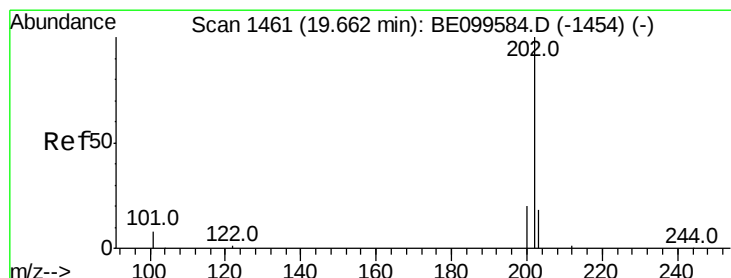
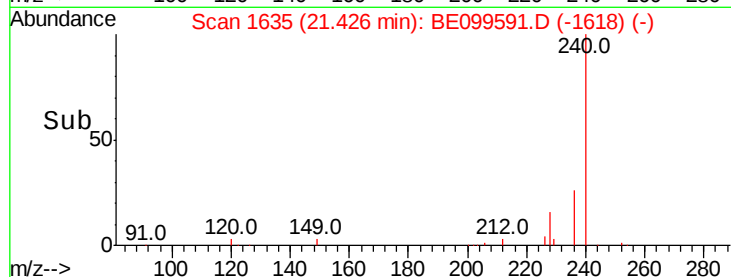
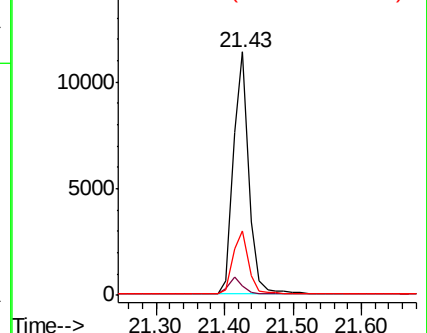
236 26.4 21.0 31.6



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: 0.388 ng

RT: 19.67 min Scan# 1462

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

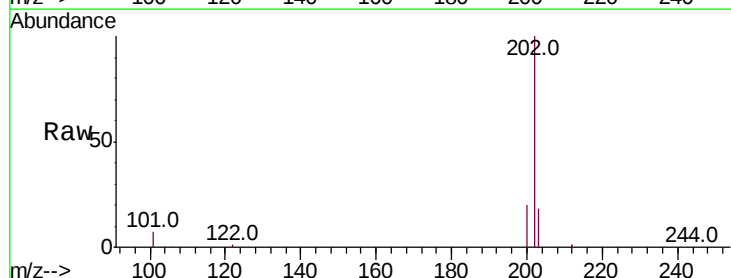
Tgt Ion:202 Resp: 18141

Ion Ratio Lower Upper

202 100

200 19.8 15.9 23.9

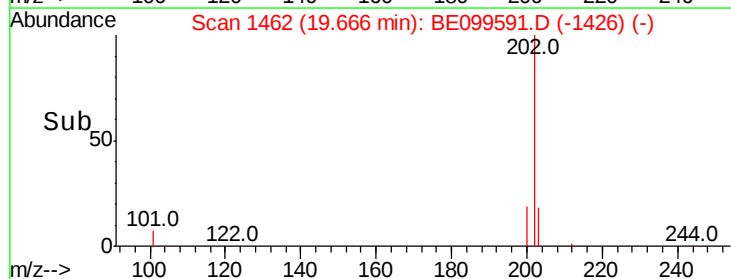
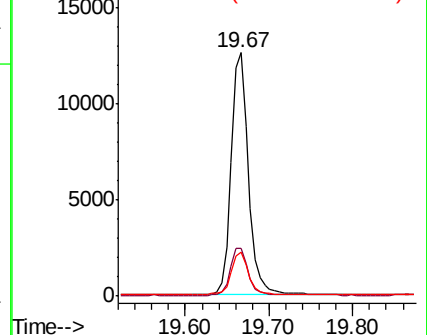
203 18.1 14.1 21.1

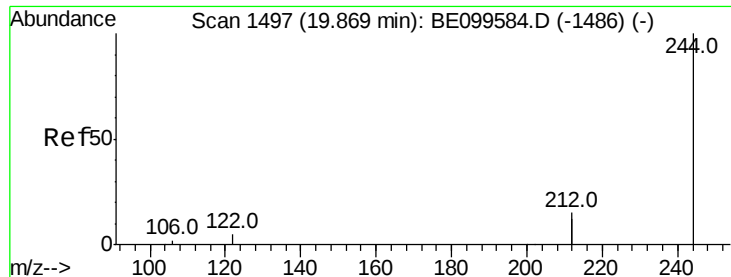


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.404 ng

RT: 19.87 min Scan# 1497

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

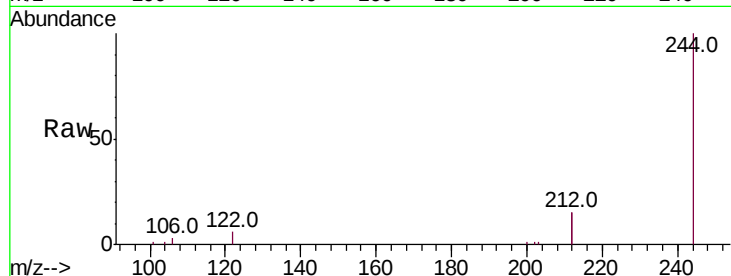
Tot Ion:244 Resp: 12747

Ion Ratio Lower Upper

244 100

212 29.6 24.4 36.6

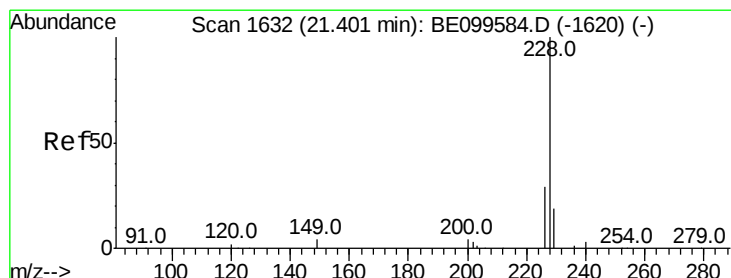
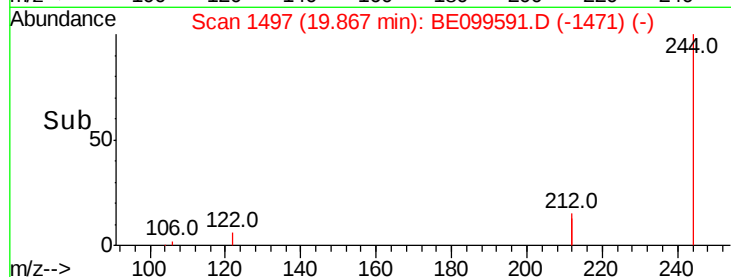
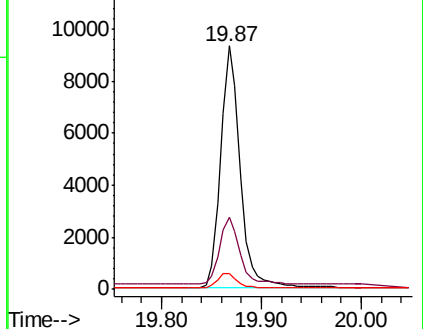
122 6.2 4.6 6.8



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: 0.406 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

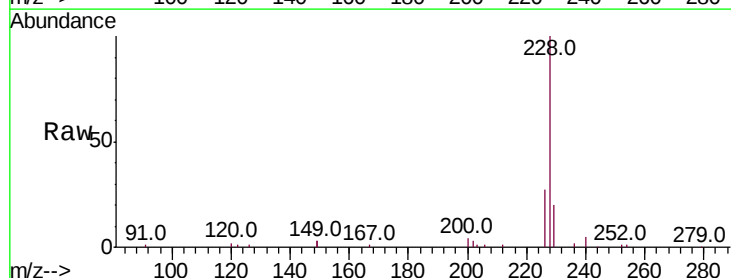
Tgt Ion:228 Resp: 21993

Ion Ratio Lower Upper

228 100

226 27.3 23.3 34.9

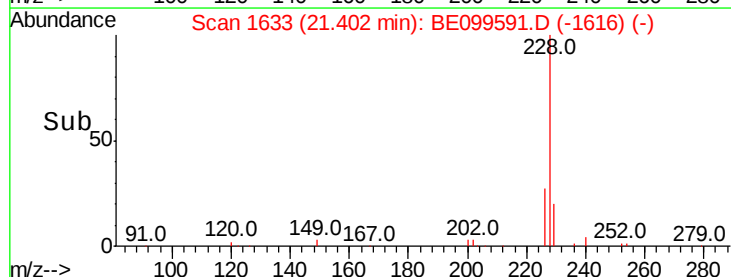
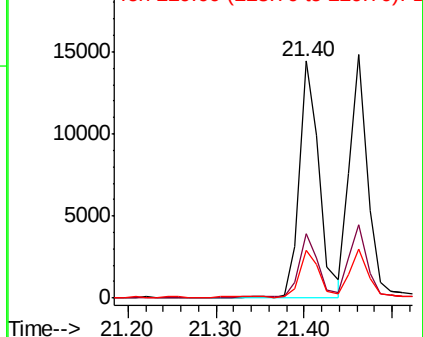
229 20.3 15.5 23.3

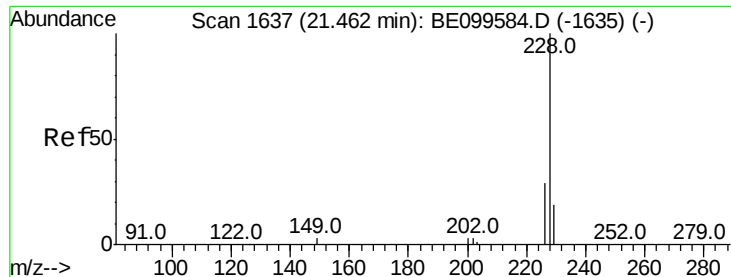


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.384 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

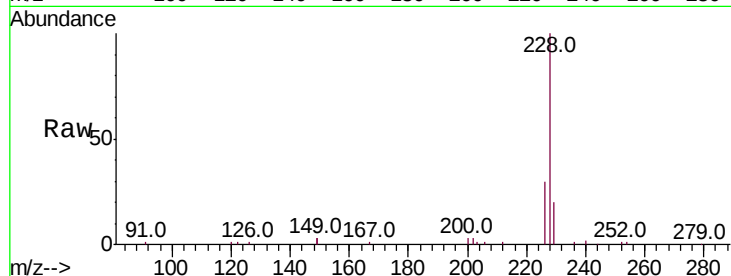
Tot Ion:228 Resp: 20822

Ion Ratio Lower Upper

228 100

226 29.9 23.2 34.8

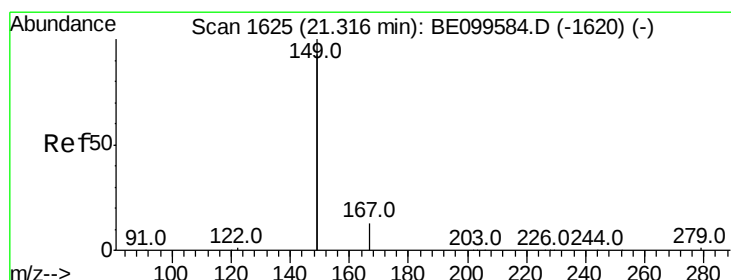
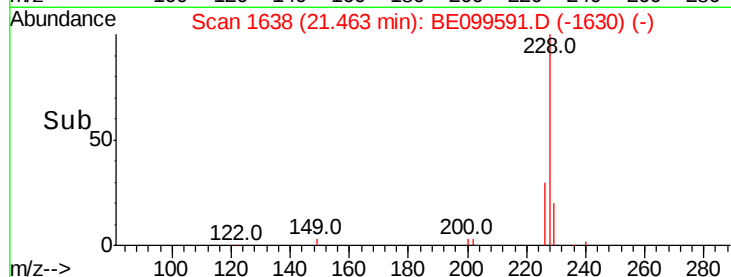
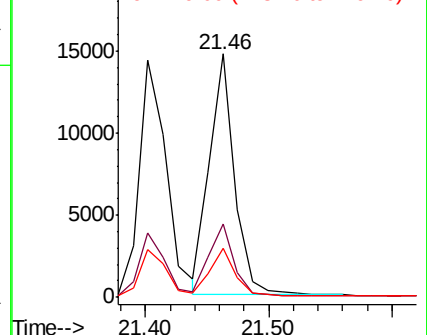
229 20.3 15.6 23.4



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: 0.420 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

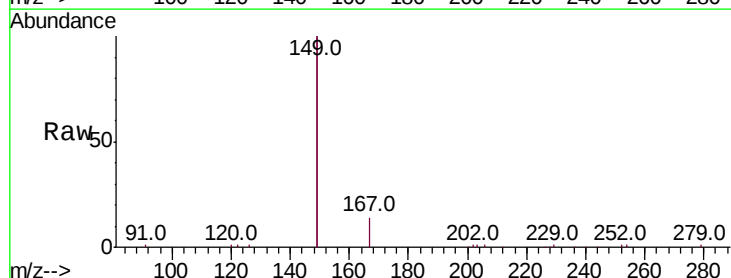
Tgt Ion:149 Resp: 32700

Ion Ratio Lower Upper

149 100

167 7.4 6.0 9.0

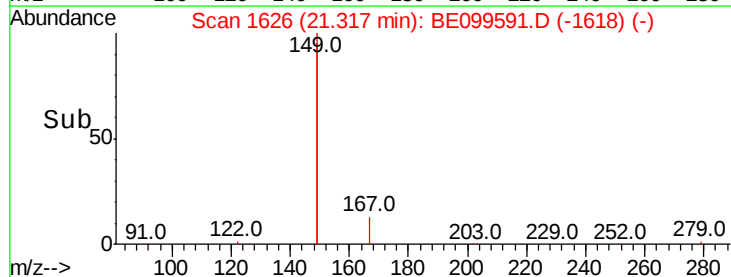
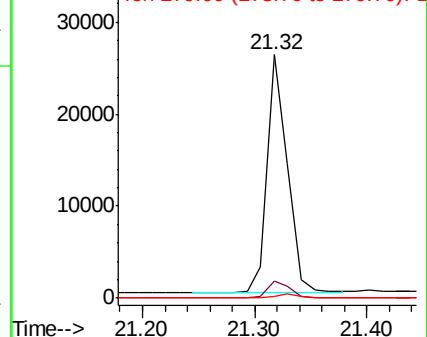
279 1.5 1.1 1.7

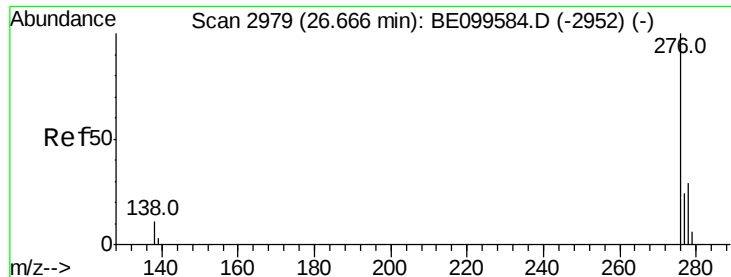


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

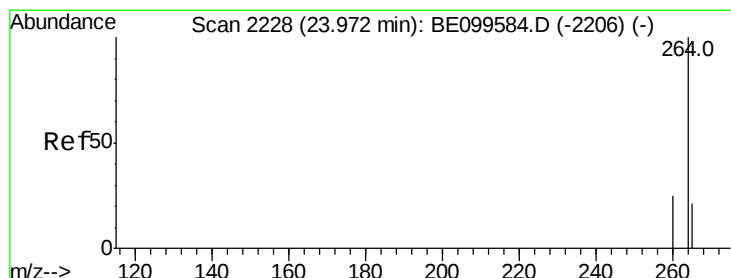
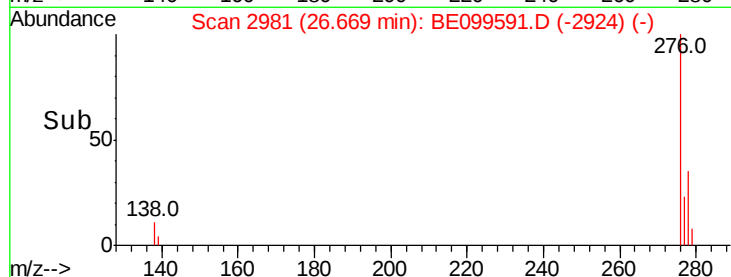
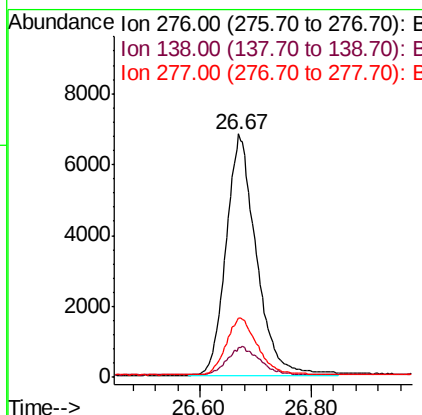
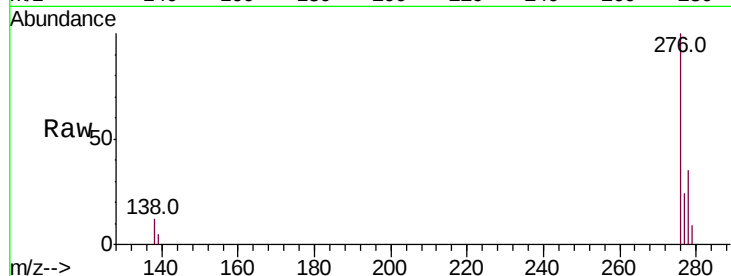




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.376 ng
 RT: 26.67 min Scan# 2981
 Delta R.T. 0.00 min
 Lab File: BE099591.D
 Acq: 9 May 2019 16:34

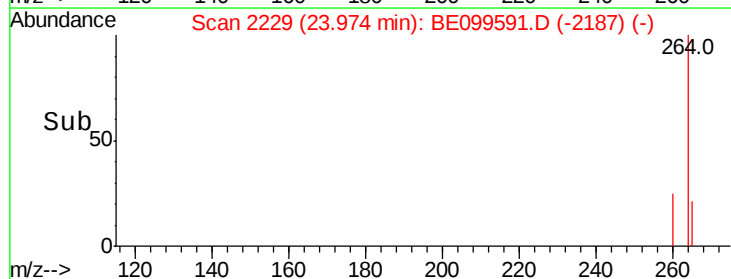
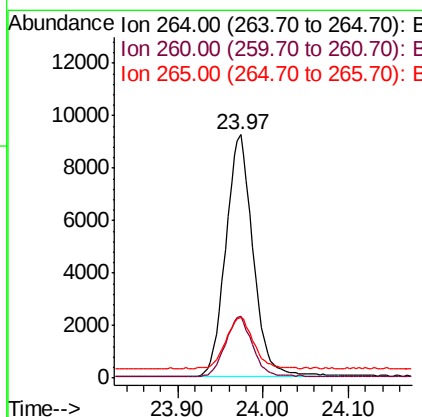
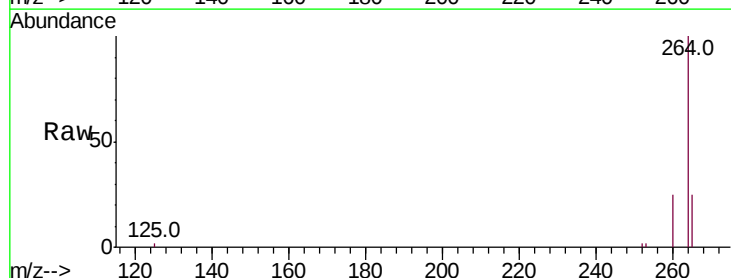
Instrument :
 BNA_E
 ClientSampleId :

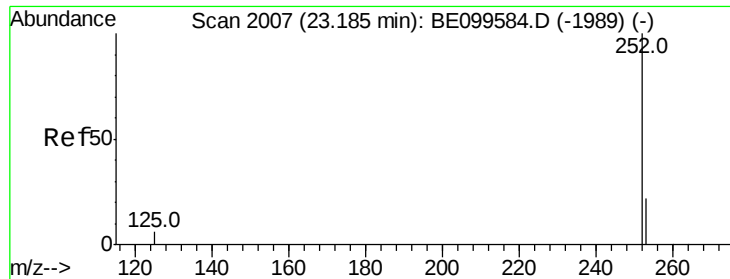
Tot Ion:276 Resp: 25459
 Ion Ratio Lower Upper
 276 100
 138 12.5 10.2 15.2
 277 24.7 19.8 29.8



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.97 min Scan# 2229
 Delta R.T. 0.00 min
 Lab File: BE099591.D
 Acq: 9 May 2019 16:34

Tgt Ion:264 Resp: 20455
 Ion Ratio Lower Upper
 264 100
 260 25.3 20.3 30.5
 265 24.8 20.9 31.3





#35

Benzo(b)fluoranthene

Concen: 0.376 ng

RT: 23.18 min Scan# 2007

Delta R.T. -0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

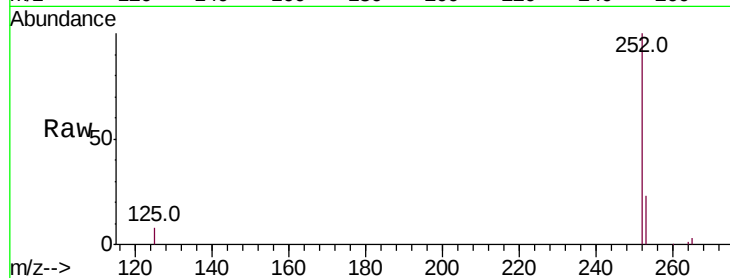
Tot Ion:252 Resp: 21272

Ion Ratio Lower Upper

252 100

253 23.3 18.6 28.0

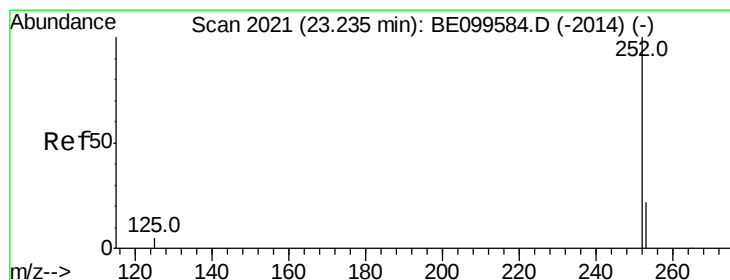
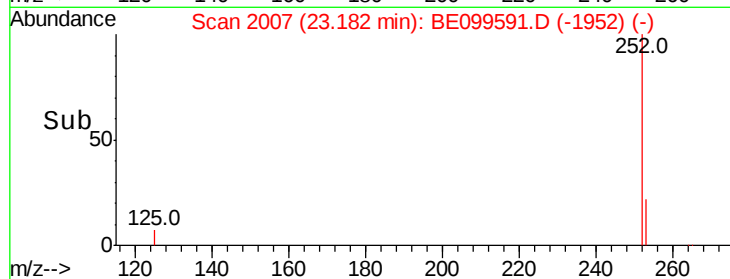
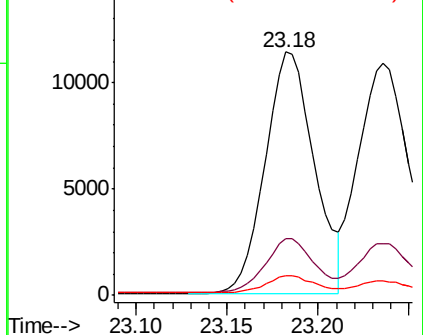
125 7.8 6.0 9.0



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



#36

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 23.24 min Scan# 2022

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

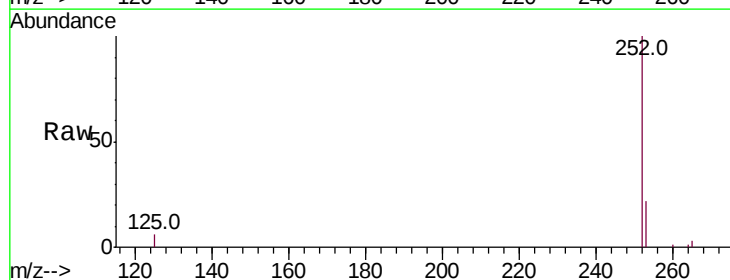
Tgt Ion:252 Resp: 21435

Ion Ratio Lower Upper

252 100

253 22.4 18.7 28.1

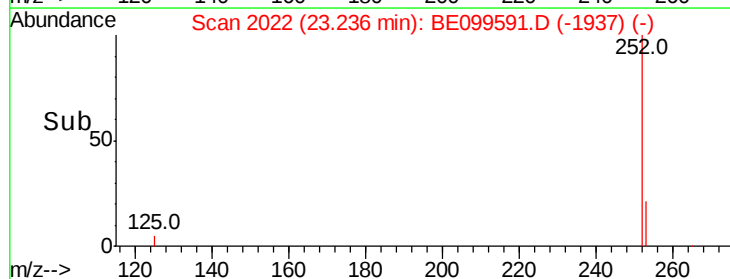
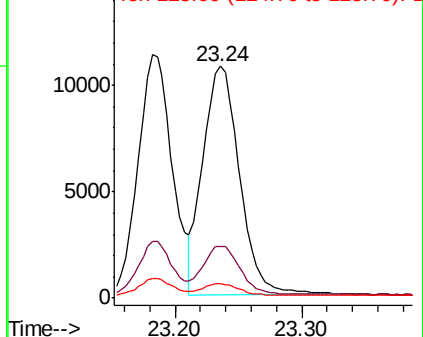
125 6.2 5.1 7.7

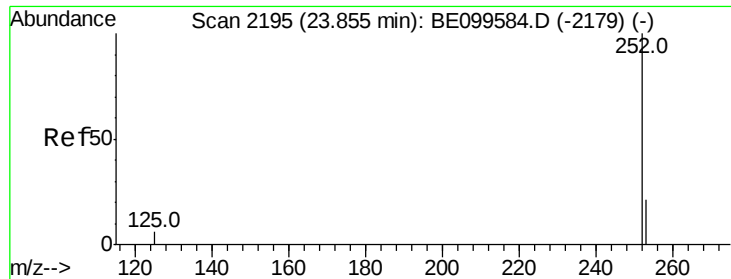


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.86 min Scan# 2196

Delta R.T. 0.00 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :

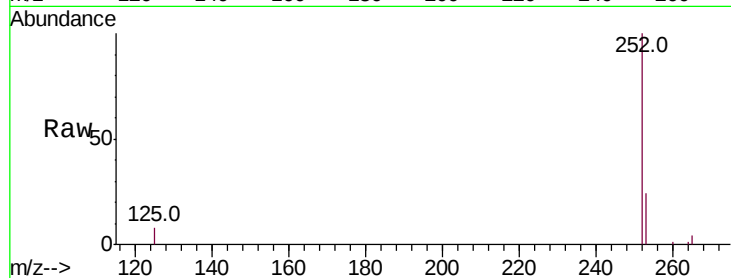
Tot Ion:252 Resp: 20706

Ion Ratio Lower Upper

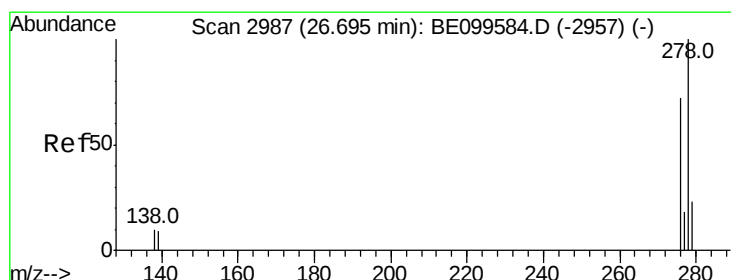
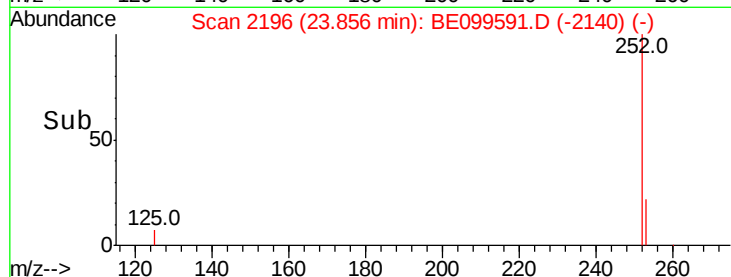
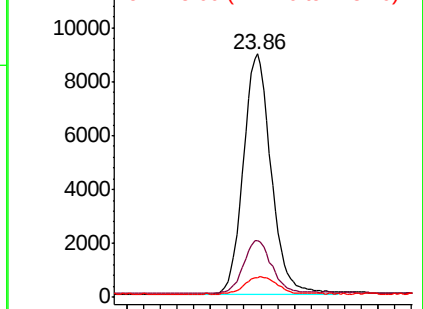
252 100

253 23.5 18.6 27.8

125 8.2 6.4 9.6



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



#38

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 26.70 min Scan# 2990

Delta R.T. 0.01 min

Lab File: BE099591.D

Acq: 9 May 2019 16:34

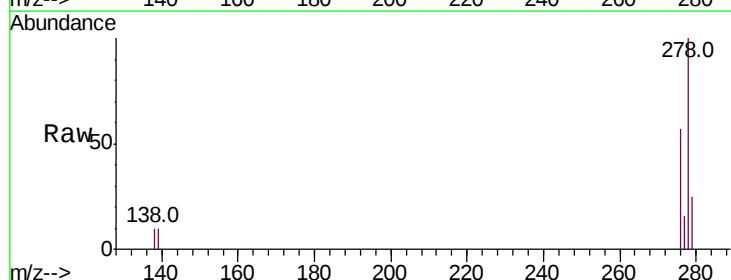
Tgt Ion:278 Resp: 21399

Ion Ratio Lower Upper

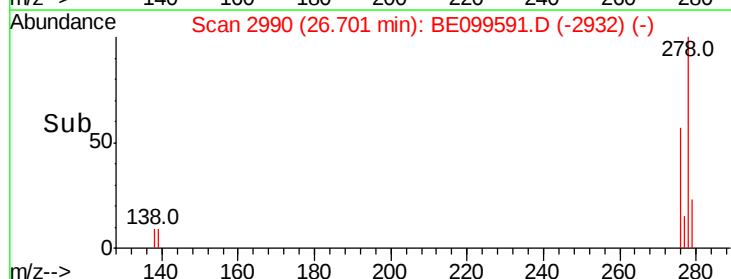
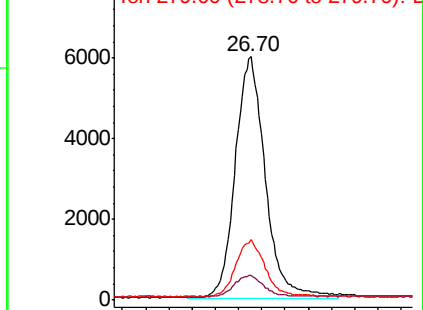
278 100

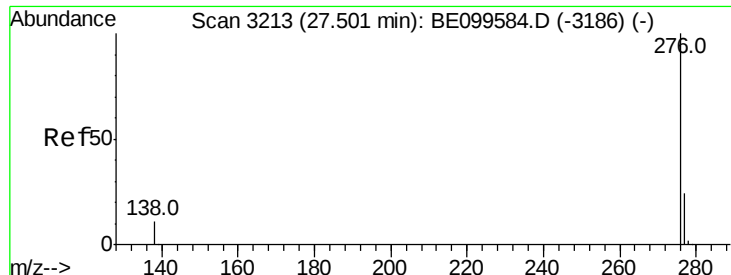
139 10.0 8.3 12.5

279 24.7 19.4 29.2



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(a,h,i)perylene

Concen: 0.371 ng

RT: 27.50 min Scan# 3215

Delta R.T. 0.00 min

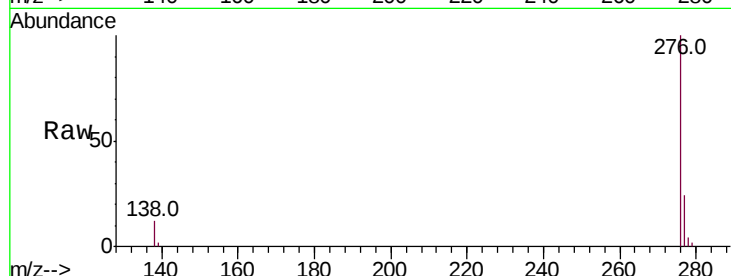
Lab File: BE099591.D

Acq: 9 May 2019 16:34

Instrument :

BNA_E

ClientSampleId :



Tot Ion:276 Resp: 21485

Ion Ratio Lower Upper

276 100

277 24.1 19.8 29.6

138 11.8 9.4 14.2

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

