

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\
 Data File : BE099686.D
 Acq On : 21 May 2019 12:31
 Operator : JU/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 21 14:06:56 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	7.81	152	1808	0.40	ng	-0.01
7) Naphthalene-d8	10.61	136	6663	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	4834	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	14017	0.40	ng	0.00
27) Chrysene-d12	21.41	240	19889	0.40	ng	0.00
34) Perylene-d12	23.96	264	23317	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.37	112	1691	0.37	ng	0.00
5) Phenol-d6	6.98	99	2270	0.38	ng	0.00
8) Nitrobenzene-d5	8.98	82	2080	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	4231	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	945	0.39	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	6586	0.36	ng	0.00
25) Fluoranthene-d10	19.26	212	67628	0.35	ng	0.00
29) Terphenyl-d14	19.86	244	13568	0.38	ng	0.00

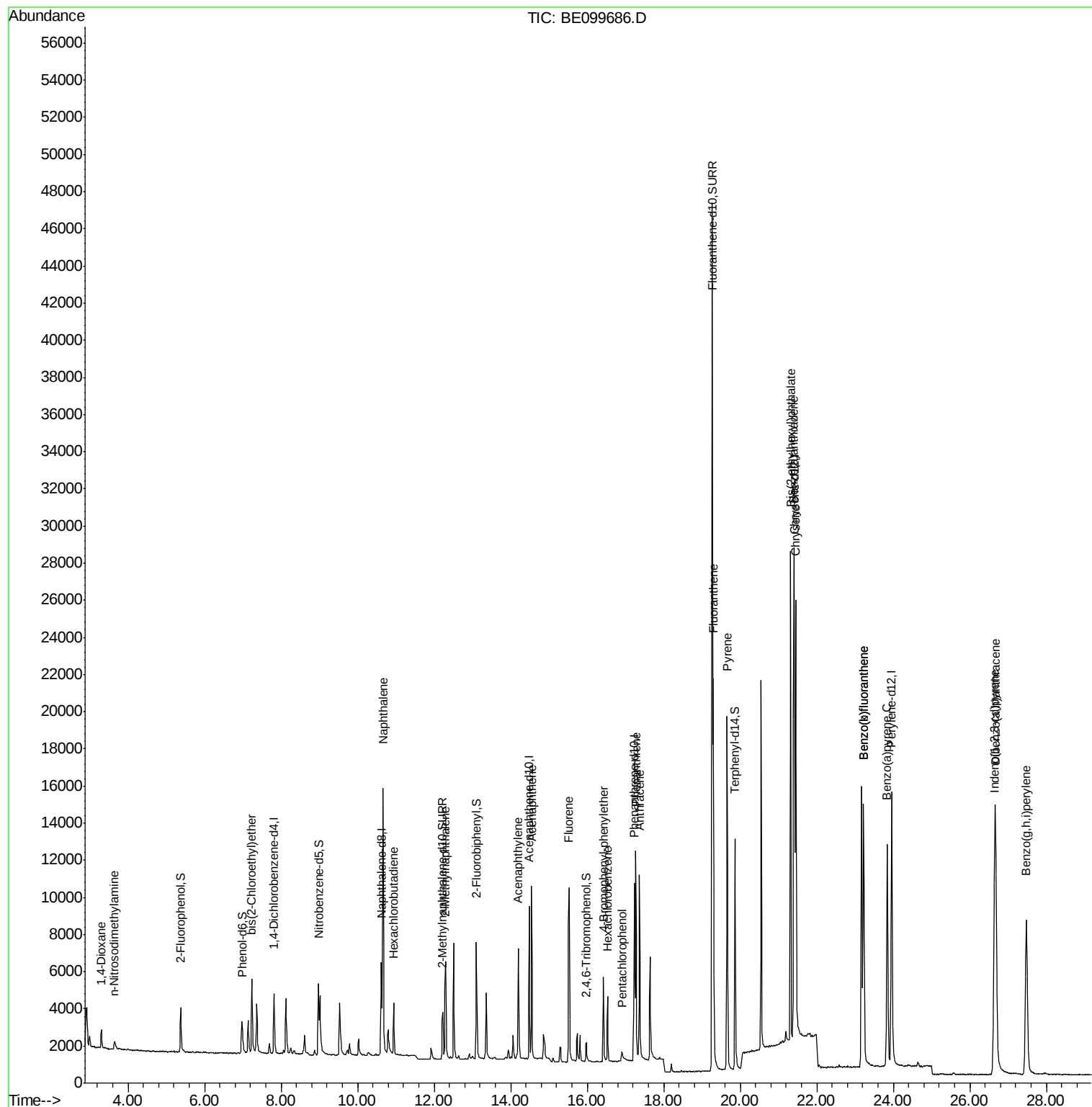
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.30	88	864	0.323	ng	90
3) n-Nitrosodimethylamine	3.64	42	408	0.276	ng	# 92
6) bis(2-Chloroethyl)ether	7.23	93	1973	0.367	ng	96
9) Naphthalene	10.67	128	25789	0.362	ng	99
10) Hexachlorobutadiene	10.94	225	1897	0.362	ng	99
12) 2-Methylnaphthalene	12.30	142	4265	0.367	ng	99
16) Acenaphthylene	14.20	152	7971	0.354	ng	99
17) Acenaphthene	14.54	154	4718	0.373	ng	99
18) Fluorene	15.53	166	6591	0.354	ng	99
20) 4-Bromophenyl-phenylether	16.42	248	2916	0.361	ng	94
21) Hexachlorobenzene	16.53	284	3134	0.379	ng	99
22) Pentachlorophenol	16.91	266	755	0.475	ng	97
23) Phenanthrene	17.27	178	12342	0.360	ng	99
24) Anthracene	17.36	178	11247	0.362	ng	99
26) Fluoranthene	19.29	202	19062	0.352	ng	99
28) Pyrene	19.66	202	19999	0.400	ng	100
30) Benzo(a)anthracene	21.40	228	22711	0.402	ng	99
31) Chrysene	21.45	228	23276	0.385	ng	99
32) Bis(2-ethylhexyl)phthalate	21.32	149	30690	0.471	ng	99
33) Indeno(1,2,3-cd)pyrene	26.64	276	27456	0.376	ng	98
35) Benzo(b)fluoranthene	23.22	252	23561	0.369	ng	100
36) Benzo(k)fluoranthene	23.22	252	23561	0.354	ng	99
37) Benzo(a)pyrene	23.84	252	22107	0.360	ng	99
38) Dibenzo(a,h)anthracene	26.68	278	22740	0.352	ng	98
39) Benzo(g,h,i)perylene	27.48	276	23157	0.355	ng	99

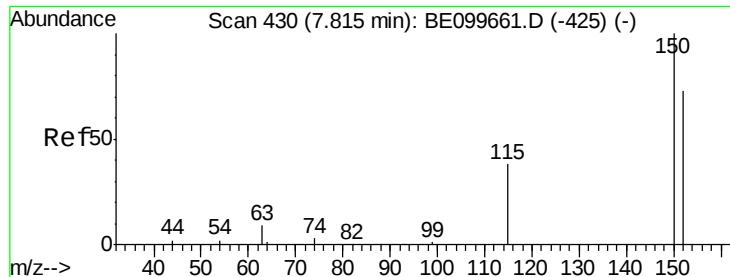
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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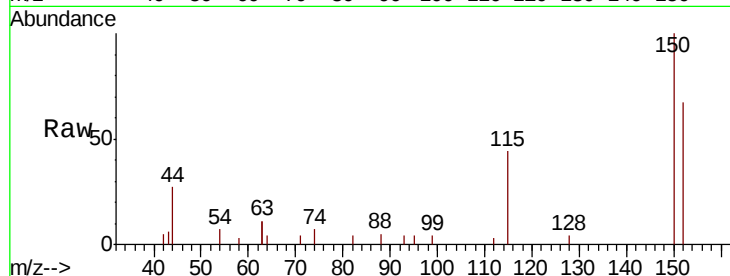


#1

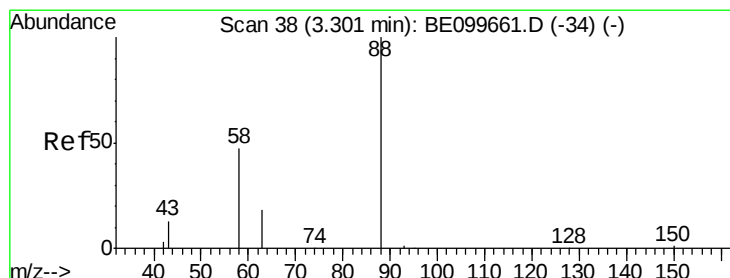
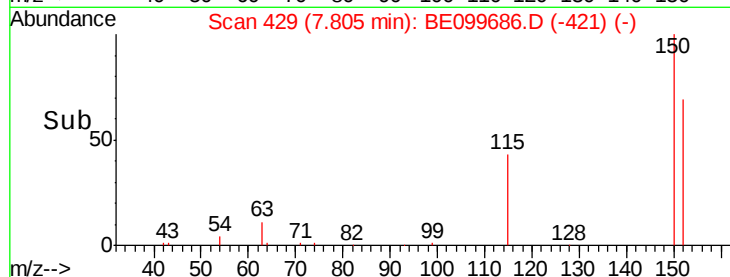
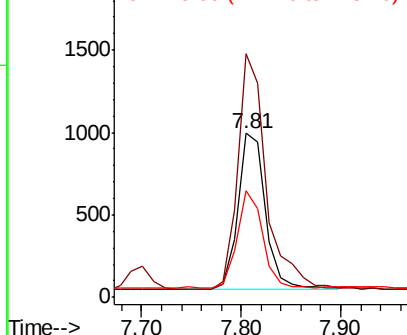
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.81 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1808
Ion Ratio Lower Upper
152 100
150 148.4 109.2 163.8
115 65.0 43.7 65.5



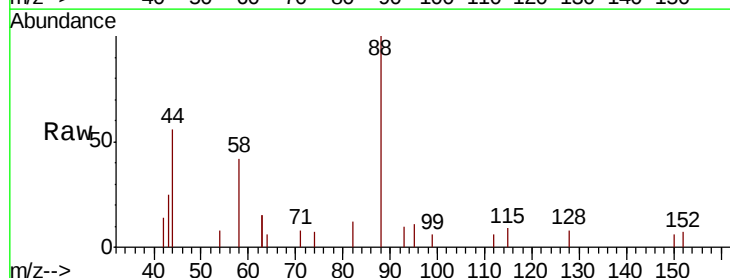
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



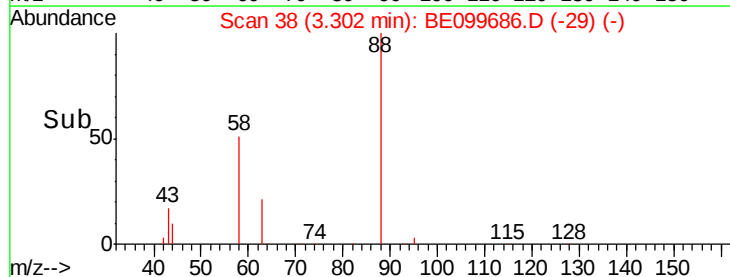
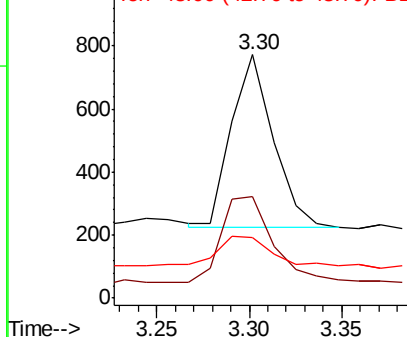
#2

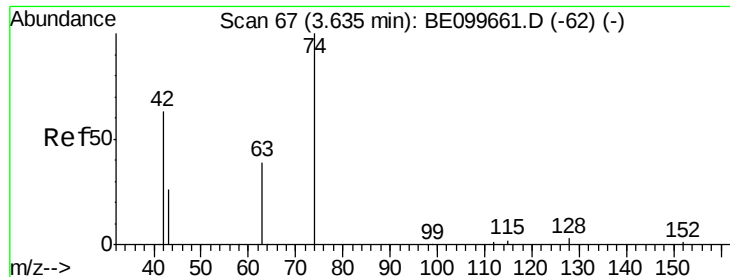
1,4-Dioxane
Concen: 0.323 ng
RT: 3.30 min Scan# 38
Delta R.T. 0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Tgt Ion: 88 Resp: 864
Ion Ratio Lower Upper
88 100
58 60.0 41.8 62.8
43 22.2 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: 0.276 ng

RT: 3.64 min Scan# 67

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampled :

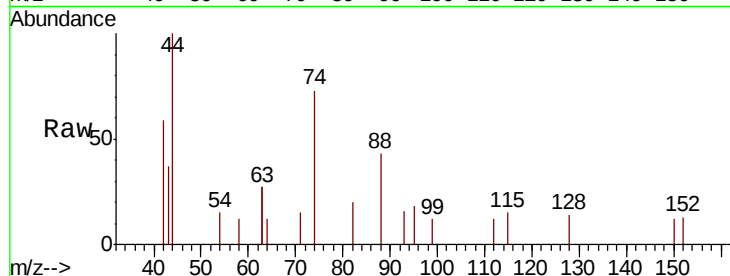
Tot Ion: 42 Resp: 408

Ion Ratio Lower Upper

42 100

74 172.5 129.2 193.8

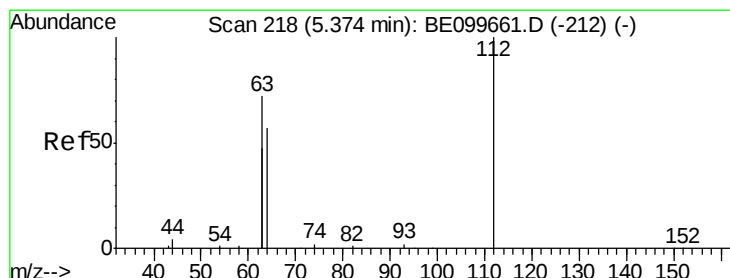
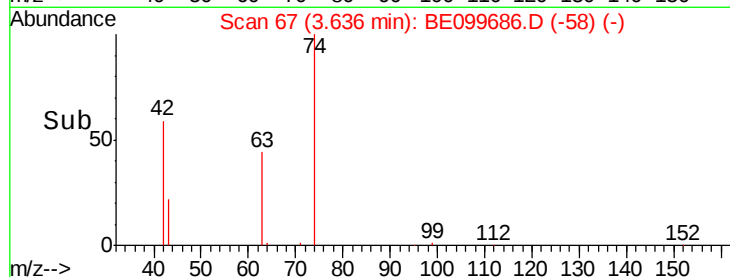
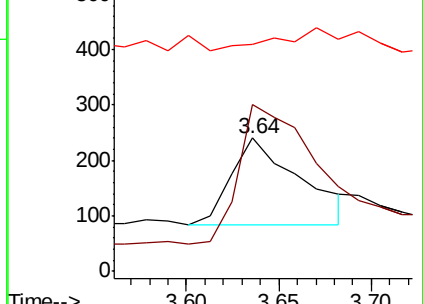
44 0.0 0.0 0.0



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: 0.370 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

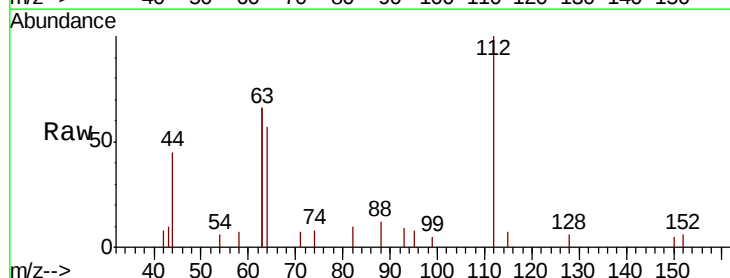
Tgt Ion: 112 Resp: 1691

Ion Ratio Lower Upper

112 100

64 53.8 43.4 65.2

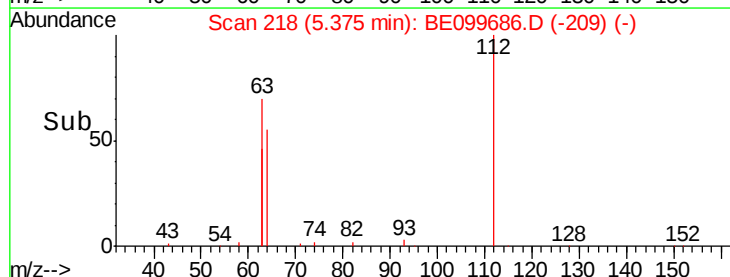
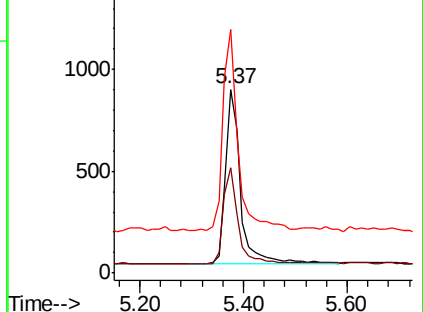
63 114.8 96.9 145.3

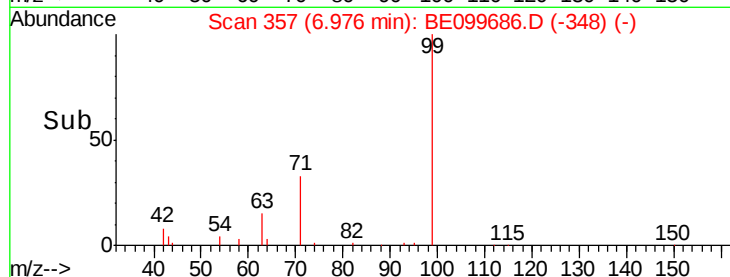
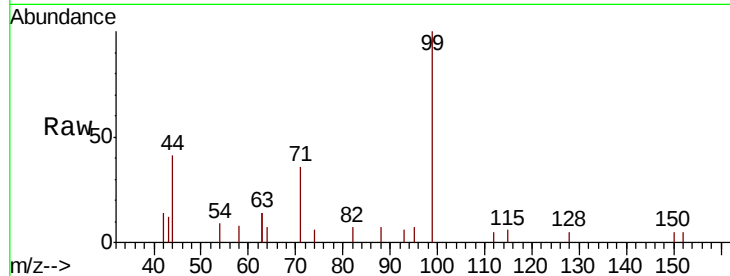
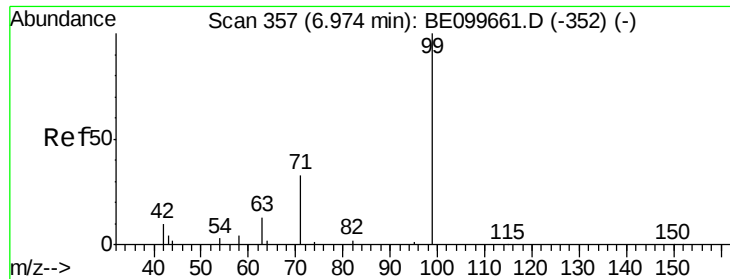


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.375 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampled :

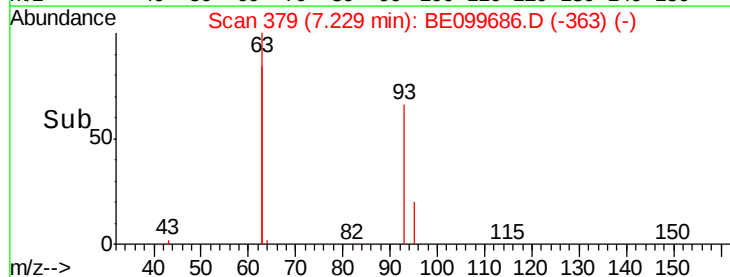
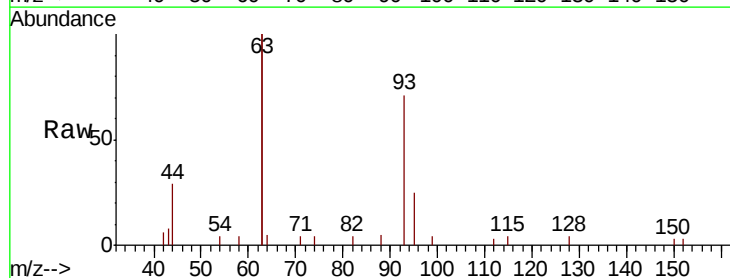
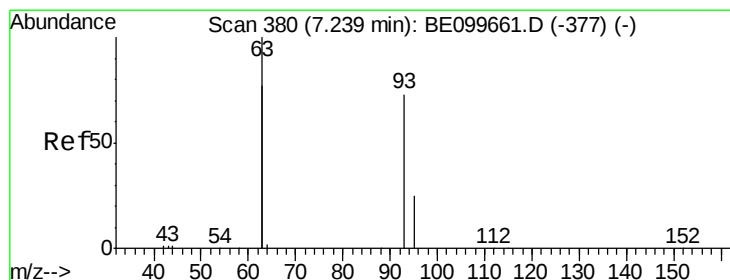
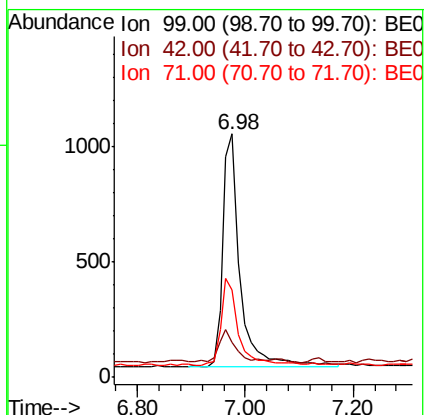
Tot Ion: 99 Resp: 2270

Ion Ratio Lower Upper

99 100

42 12.9 12.2 18.2

71 37.2 28.9 43.3



#6

bis(2-Chloroethyl)ether

Concen: 0.367 ng

RT: 7.23 min Scan# 379

Delta R.T. -0.01 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

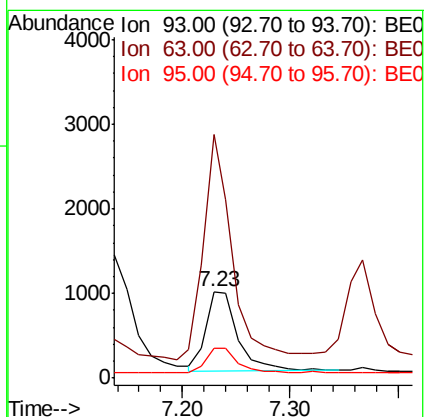
Tgt Ion: 93 Resp: 1973

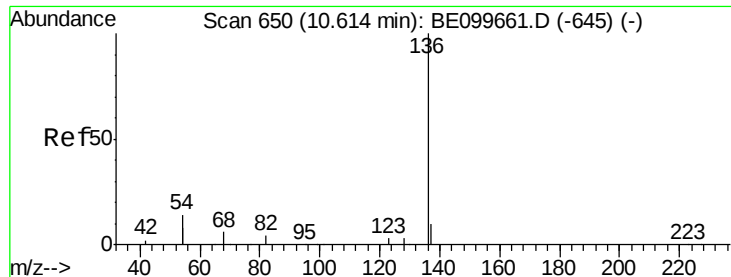
Ion Ratio Lower Upper

93 100

63 252.1 207.8 311.6

95 31.1 25.9 38.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 6663

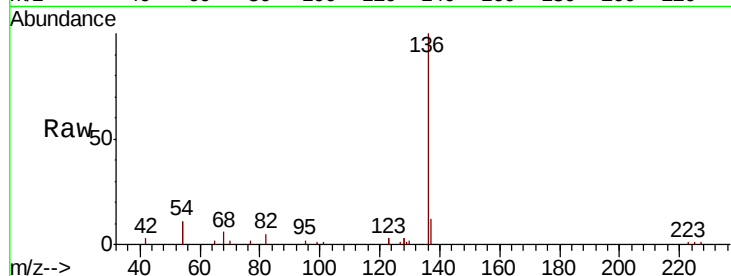
Ion Ratio Lower Upper

136 100

137 11.9 9.0 13.6

54 22.9 22.3 33.5

68 6.3 6.0 9.0

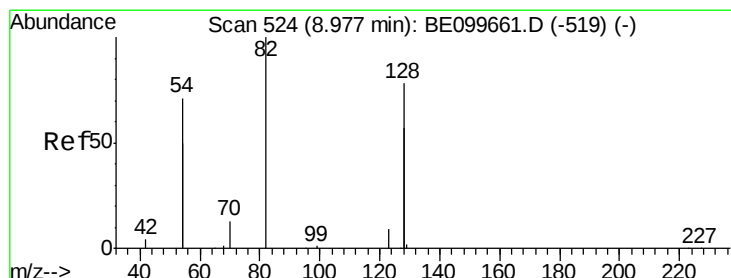
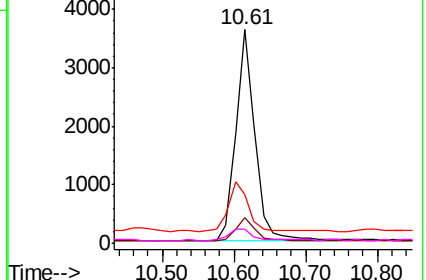
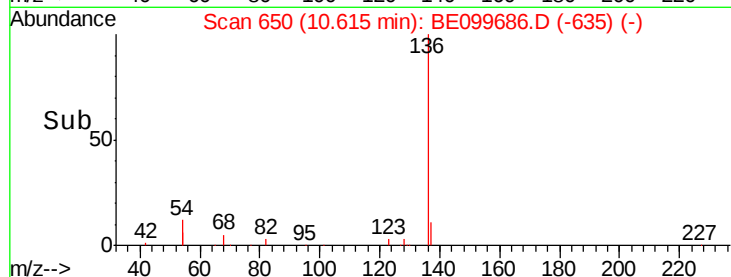


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.361 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

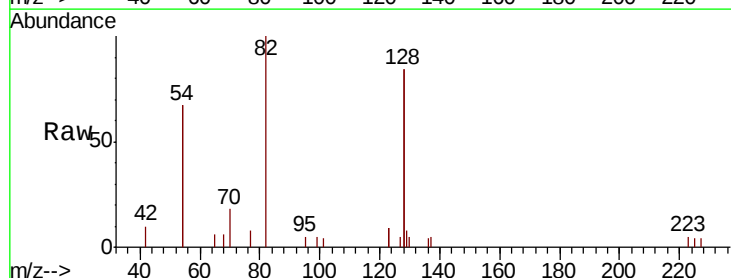
Tgt Ion: 82 Resp: 2080

Ion Ratio Lower Upper

82 100

128 168.4 117.7 176.5

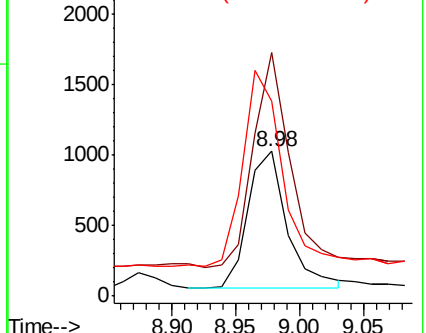
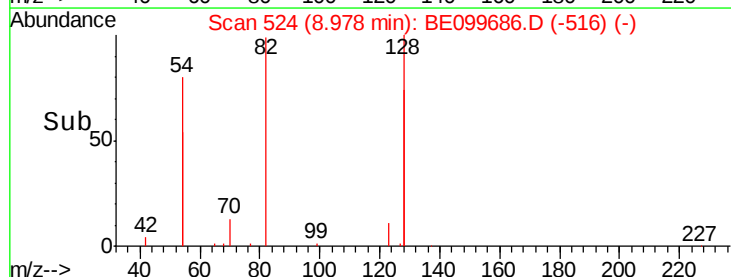
54 134.8 106.6 160.0

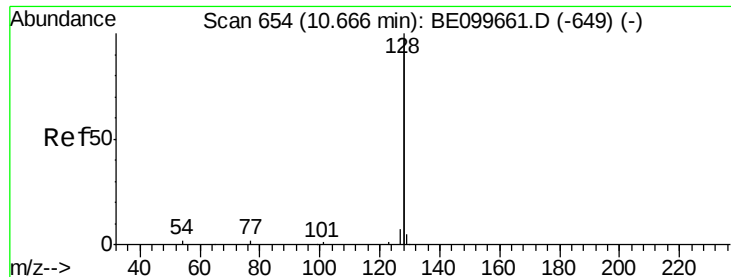


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.362 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

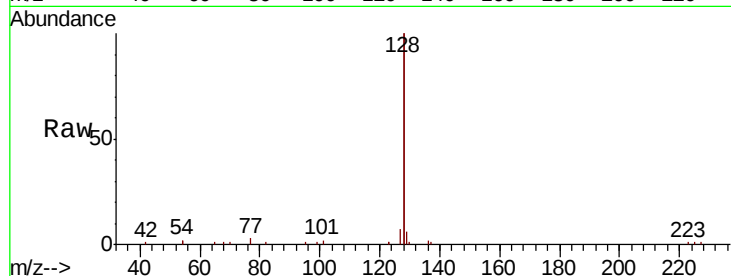
Tot Ion:128 Resp: 25789

Ion Ratio Lower Upper

128 100

129 2.9 2.4 3.6

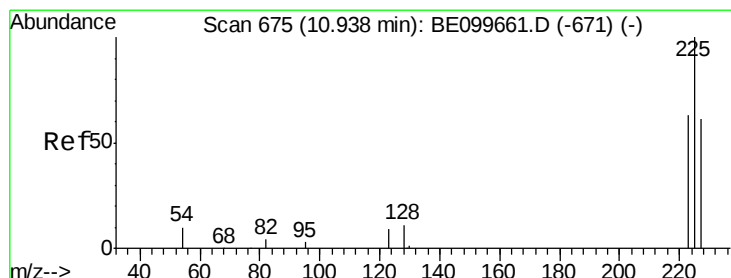
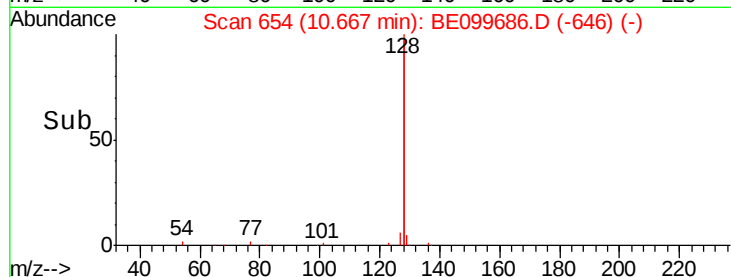
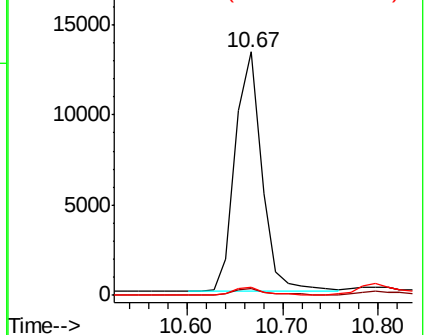
127 3.3 2.9 4.3



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: 0.362 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

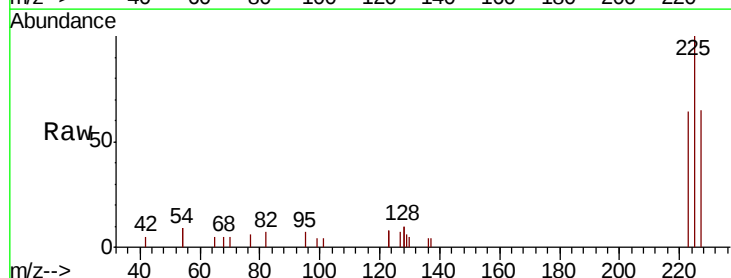
Tgt Ion:225 Resp: 1897

Ion Ratio Lower Upper

225 100

223 63.8 51.8 77.6

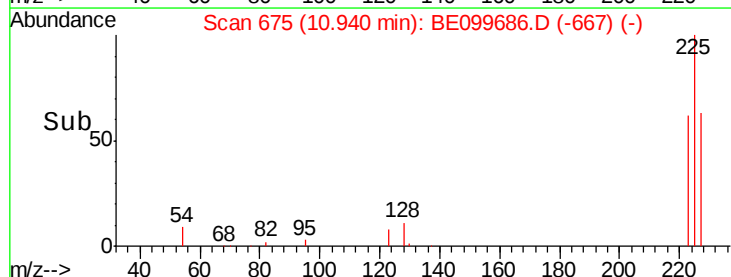
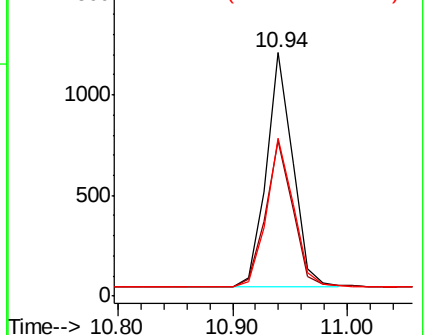
227 64.4 52.6 79.0

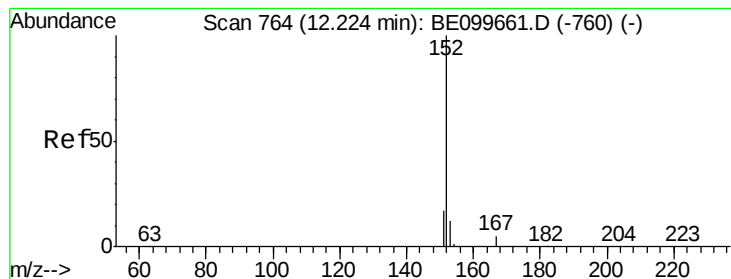


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.368 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

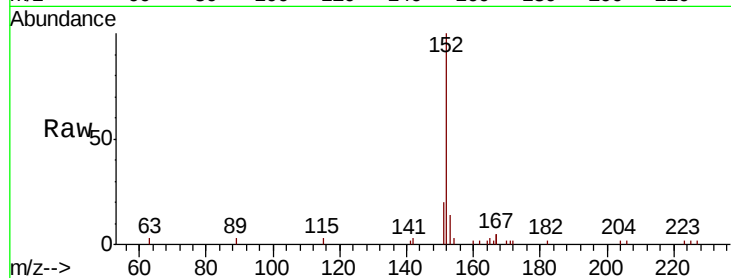
ClientSampled :

Tot Ion:152 Resp: 4231

Ion Ratio Lower Upper

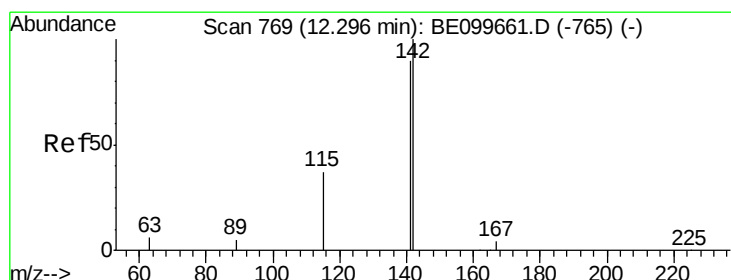
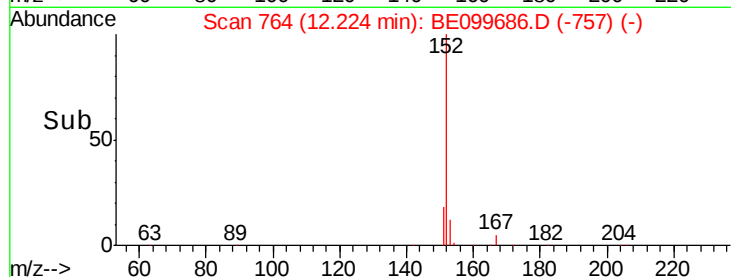
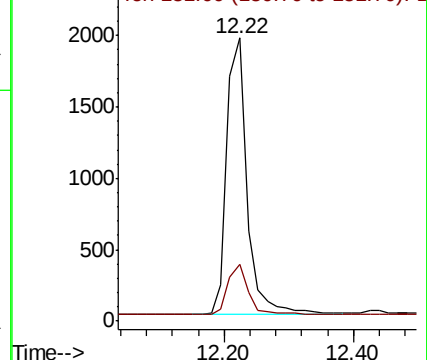
152 100

151 18.8 15.0 22.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.367 ng

RT: 12.30 min Scan# 769

Delta R.T. -0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

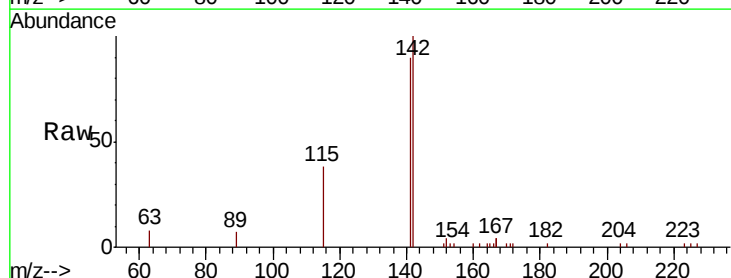
Tgt Ion:142 Resp: 4265

Ion Ratio Lower Upper

142 100

141 89.5 72.0 108.0

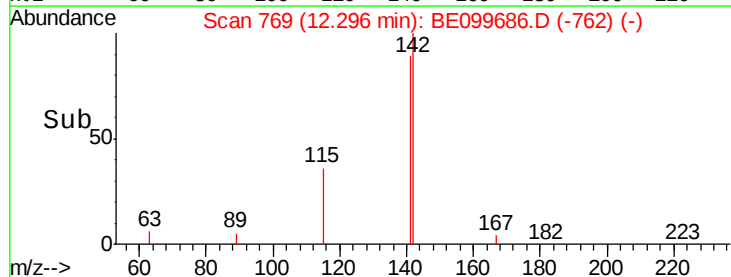
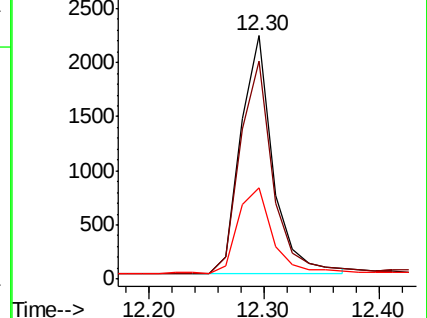
115 37.7 31.0 46.4

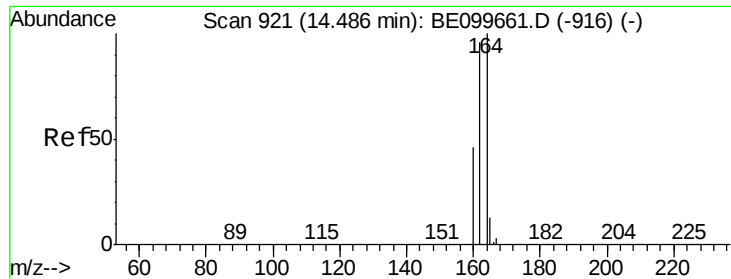


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

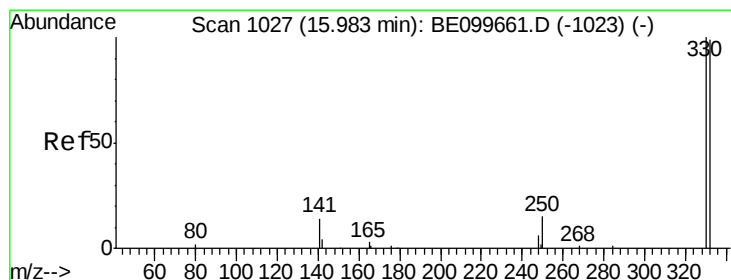
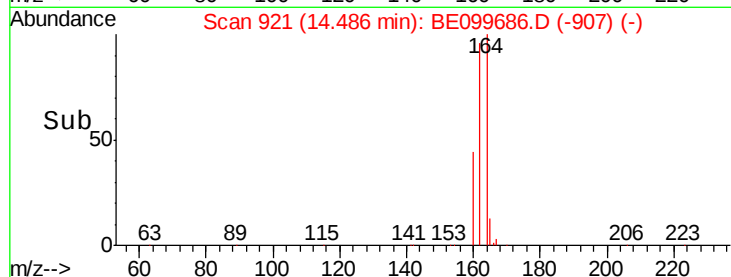
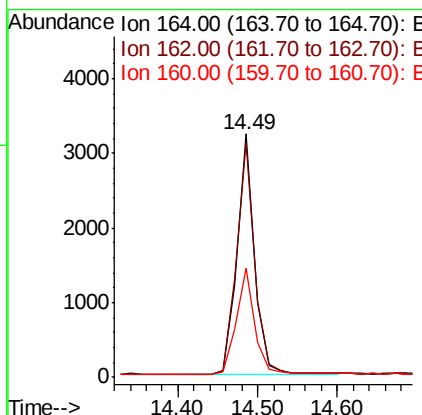
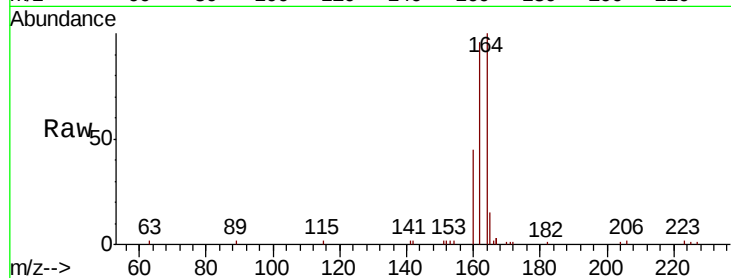




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

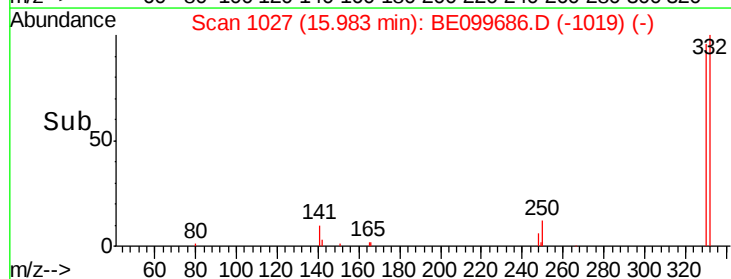
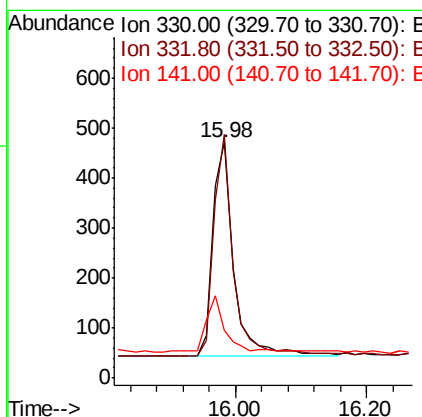
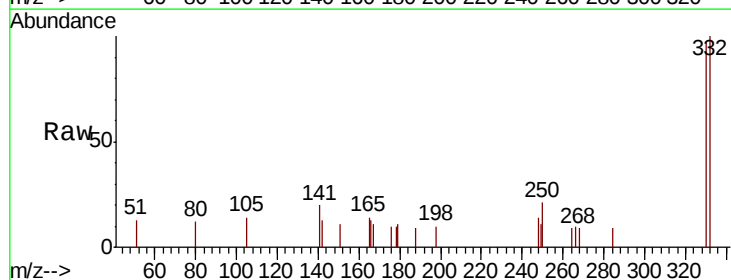
Instrument :
BNA_E
ClientSampleId :

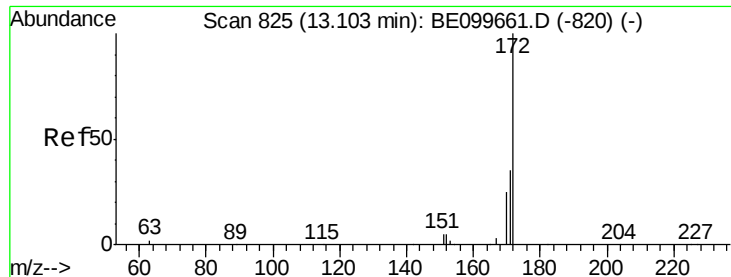
Tot Ion:164 Resp: 4834
Ion Ratio Lower Upper
164 100
162 96.2 76.5 114.7
160 44.8 37.4 56.2



#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Tgt Ion:330 Resp: 945
Ion Ratio Lower Upper
330 100
332 97.0 77.3 115.9
141 22.6 18.9 28.3

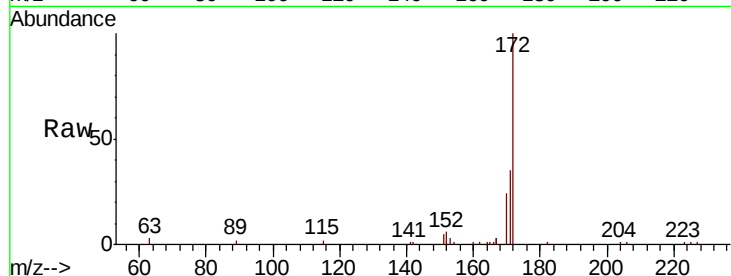




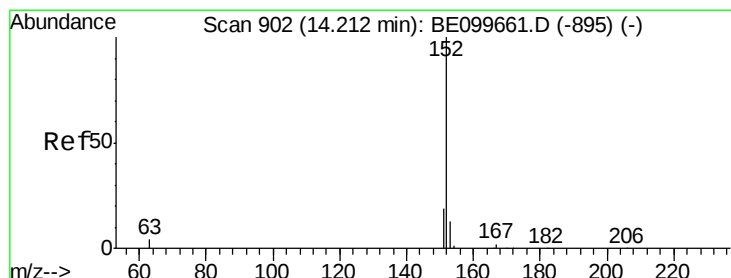
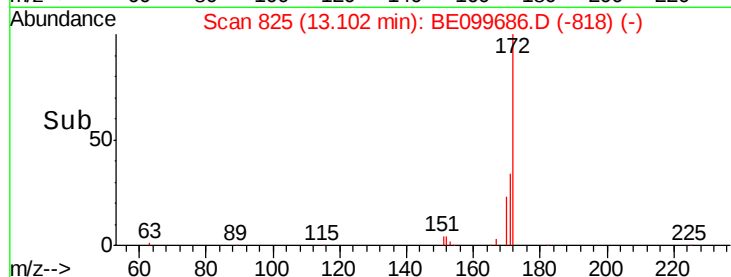
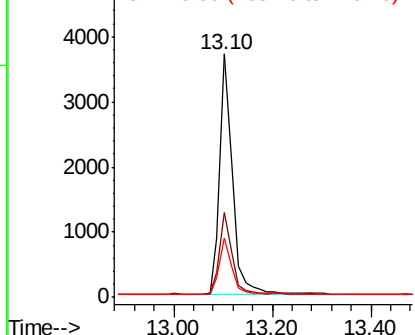
#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 6586
Ion Ratio Lower Upper
172 100
171 34.6 28.7 43.1
170 24.5 20.9 31.3

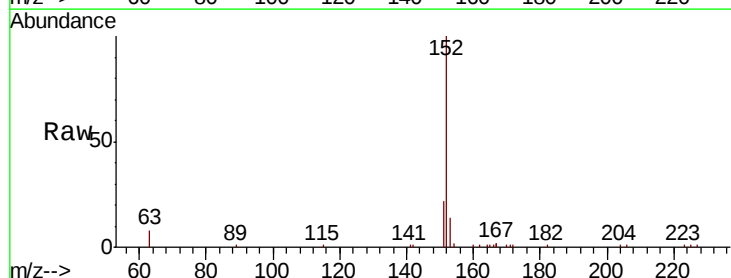


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

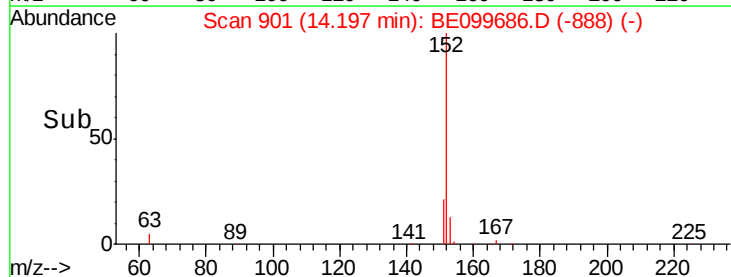
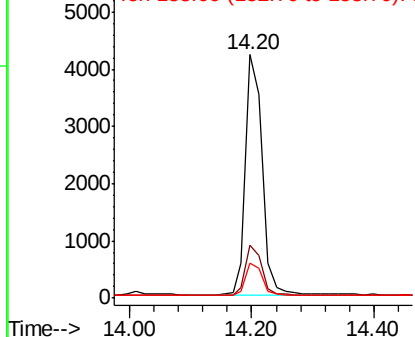


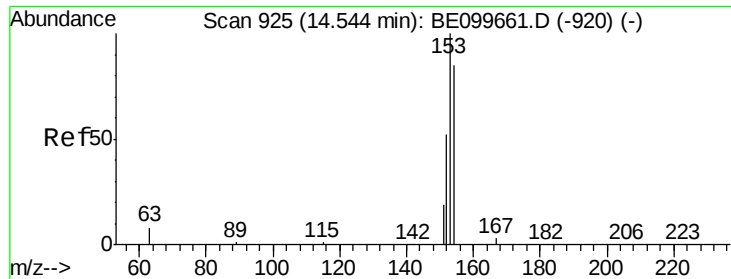
#16
Acenaphthylene
Concen: 0.354 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Tgt Ion:152 Resp: 7971
Ion Ratio Lower Upper
152 100
151 20.6 15.9 23.9
153 13.4 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

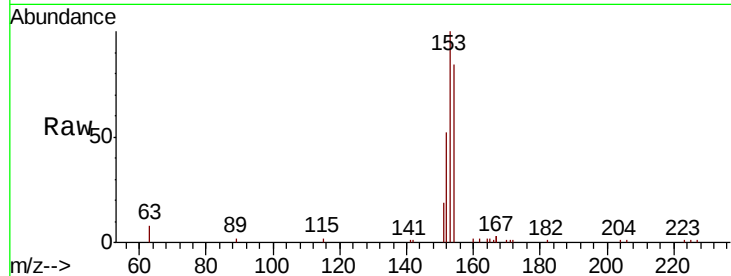




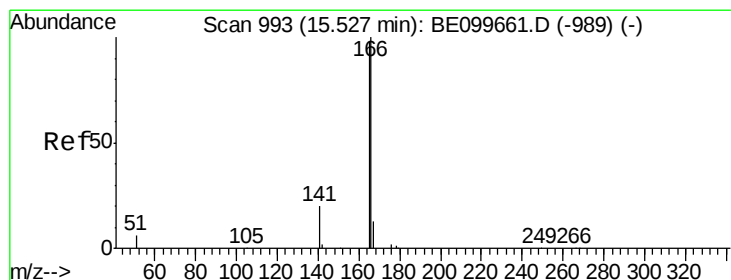
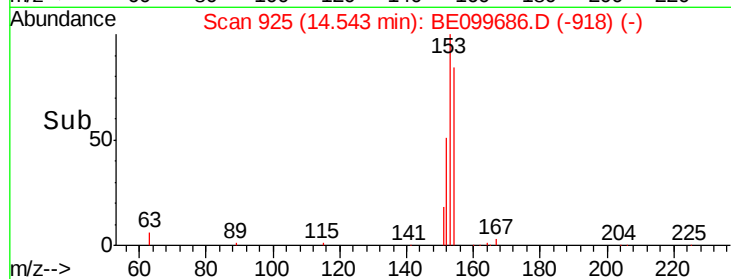
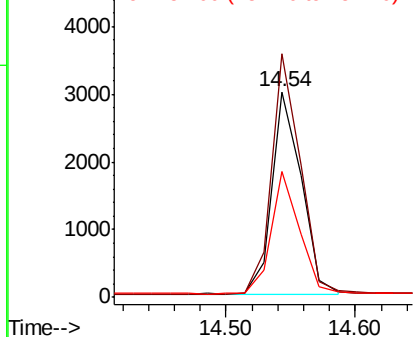
#17
Acenaphthene
Concen: 0.373 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Instrument :
BNA_E
ClientSampled :

Tot Ion:154 Resp: 4718
Ion Ratio Lower Upper
154 100
153 115.6 91.8 137.6
152 58.5 46.0 69.0

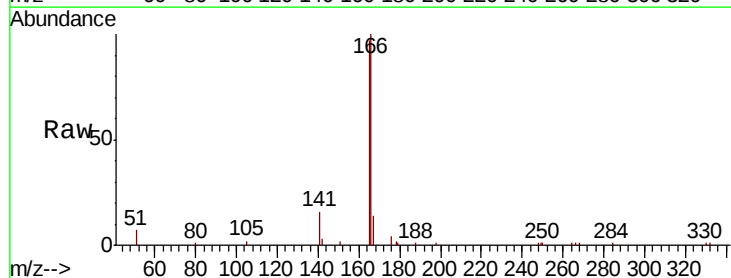


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

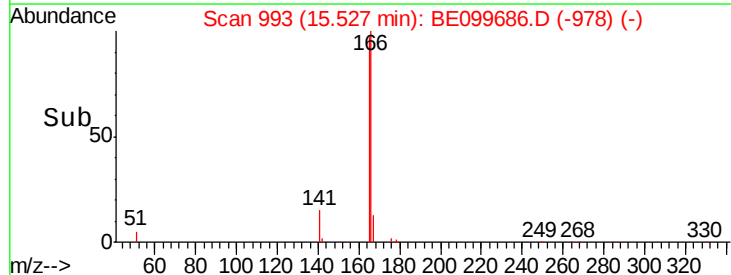
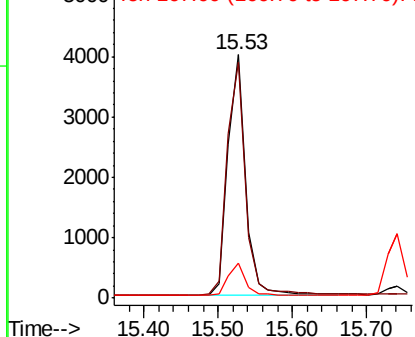


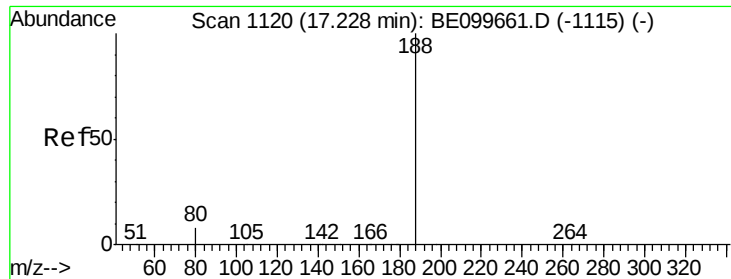
#18
Fluorene
Concen: 0.354 ng
RT: 15.53 min Scan# 993
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Tgt Ion:166 Resp: 6591
Ion Ratio Lower Upper
166 100
165 99.8 80.3 120.5
167 13.3 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

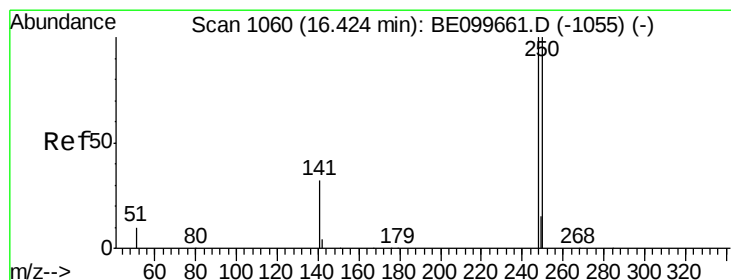
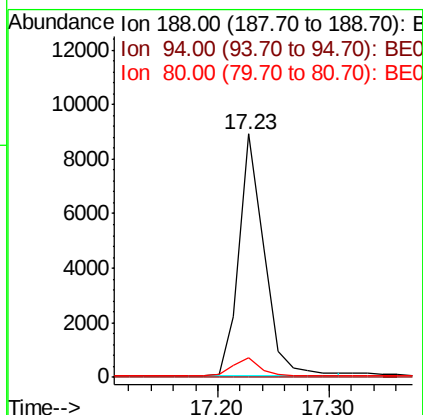
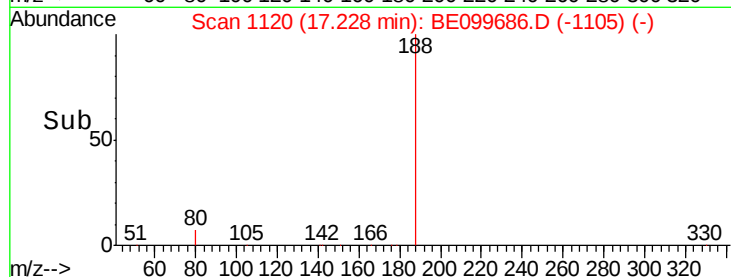




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.23 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

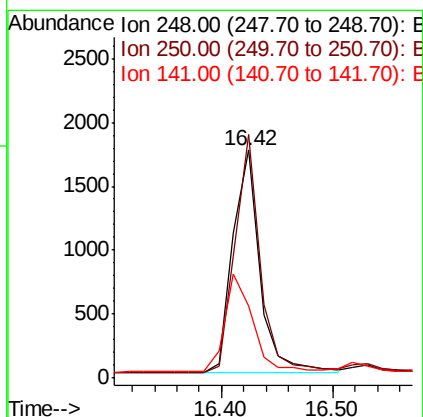
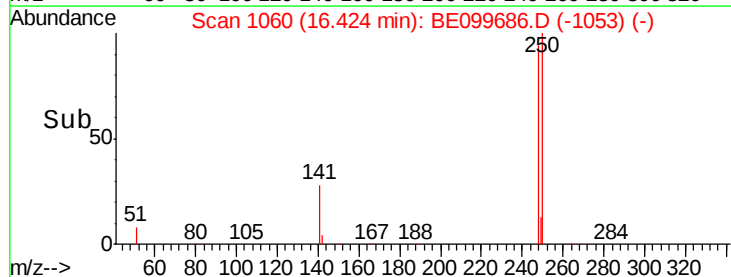
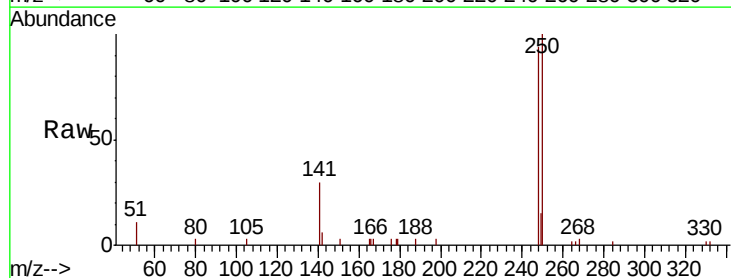
Instrument :
BNA_E
ClientSampleId :

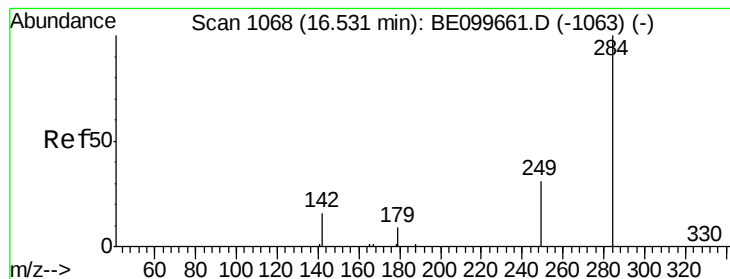
Tot Ion:188 Resp: 14017
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.9 6.7 10.1



#20
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.42 min Scan# 1060
Delta R.T. -0.00 min
Lab File: BE099686.D
Acq: 21 May 2019 12:31

Tgt Ion:248 Resp: 2916
Ion Ratio Lower Upper
248 100
250 106.7 79.8 119.8
141 31.8 27.0 40.6





#21

Hexachlorobenzene

Concen: 0.379 ng

RT: 16.53 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

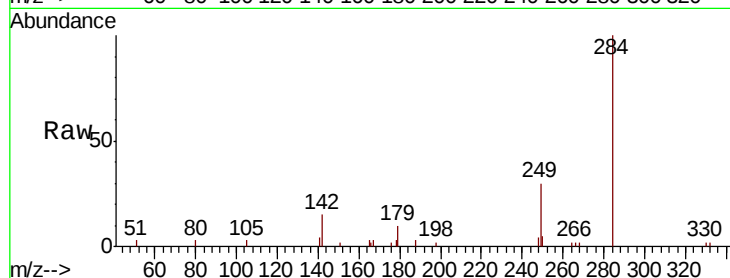
Tot Ion:284 Resp: 3134

Ion Ratio Lower Upper

284 100

142 22.9 17.8 26.6

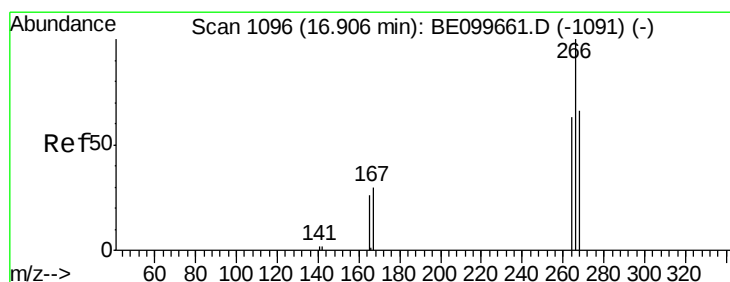
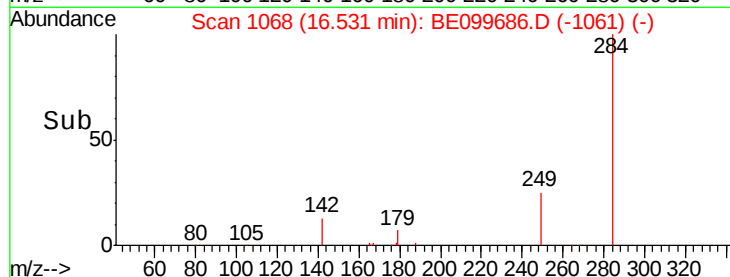
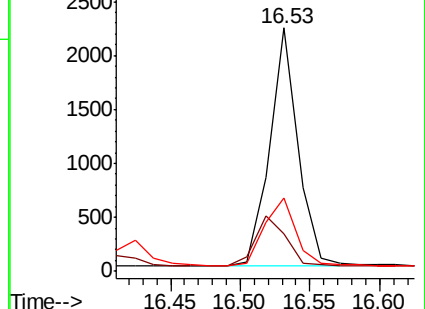
249 30.9 24.8 37.2



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: 0.475 ng

RT: 16.91 min Scan# 1096

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

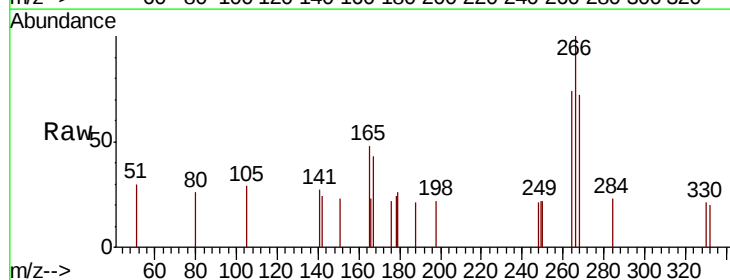
Tgt Ion:266 Resp: 755

Ion Ratio Lower Upper

266 100

264 73.5 57.2 85.8

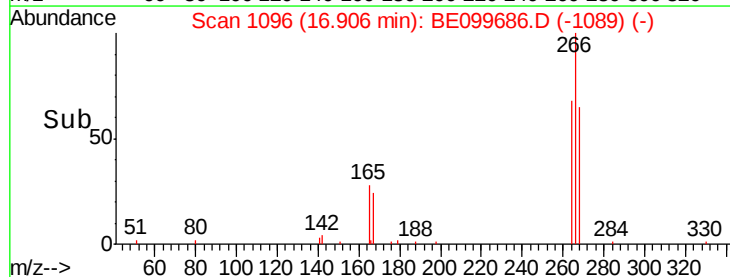
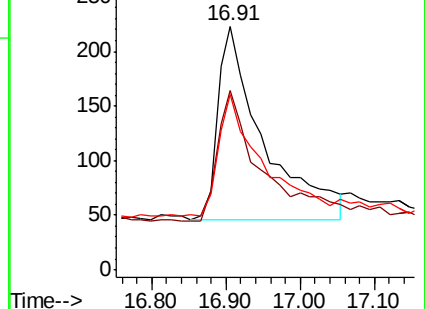
268 72.2 60.5 90.7

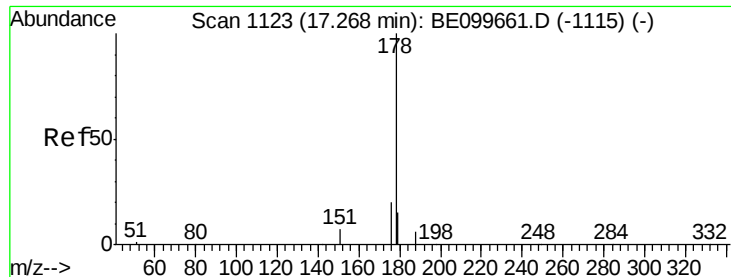


Abundance Ion 266.00 (265.70 to 266.70): E

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: BE099686.D

Acq: 21 May 2019 12:31

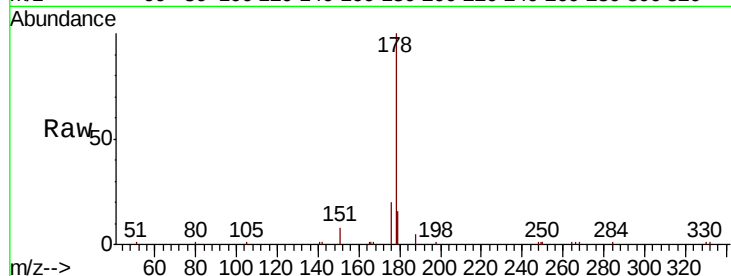
Instrument :

BNA_E

ClientSampleId :

Tot Ion:178 Resp: 12342

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	16.2	12.2	18.4

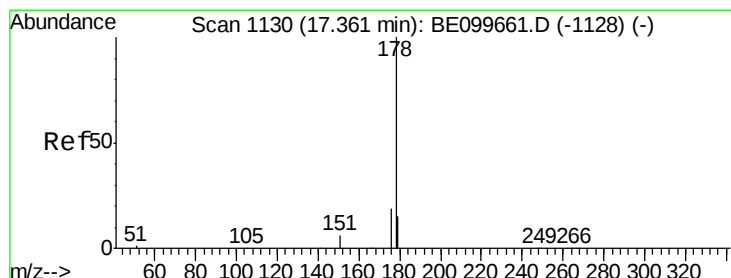
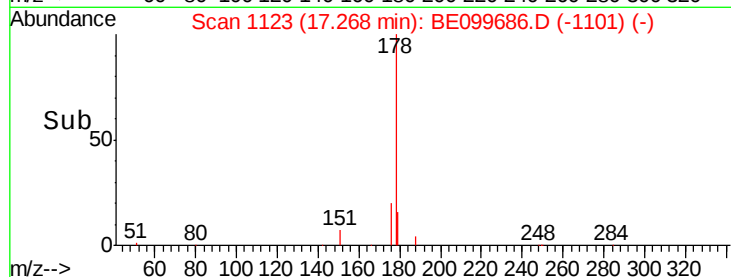
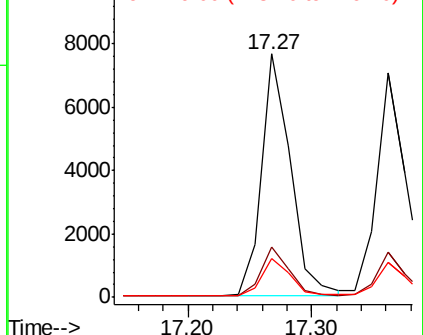


Abundance

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: 0.362 ng

RT: 17.36 min Scan# 1130

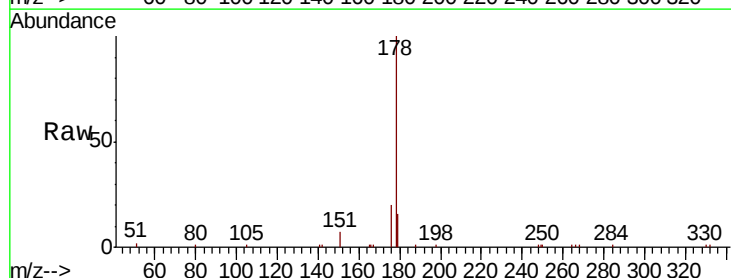
Delta R.T. -0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Tgt Ion:178 Resp: 11247

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	14.9	12.0	18.0

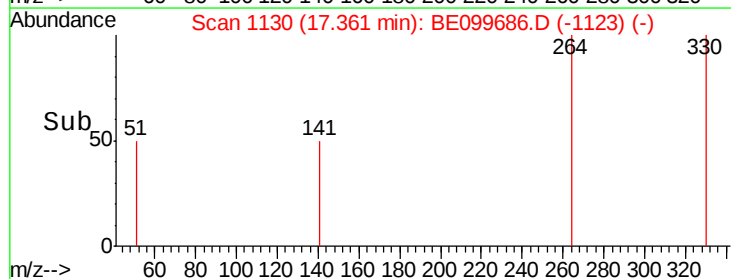
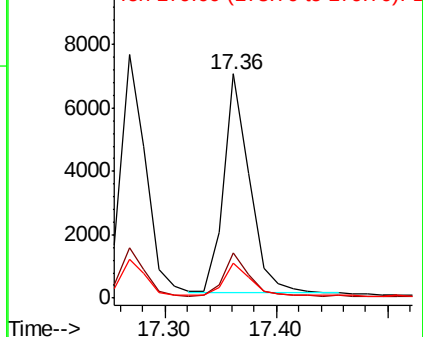


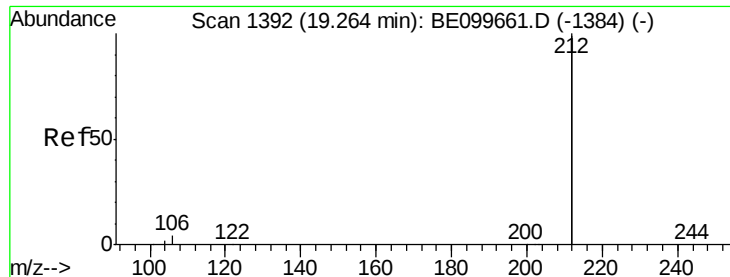
Abundance

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: 0.353 ng

RT: 19.26 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

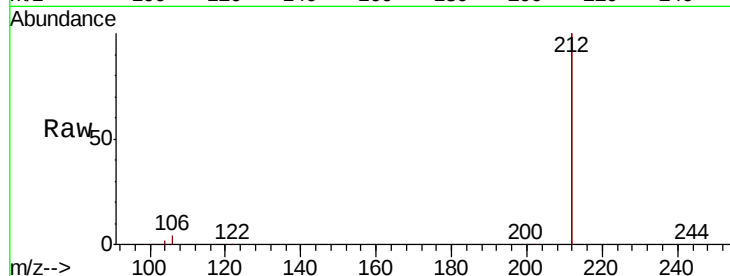
Tot Ion:212 Resp: 67628

Ion Ratio Lower Upper

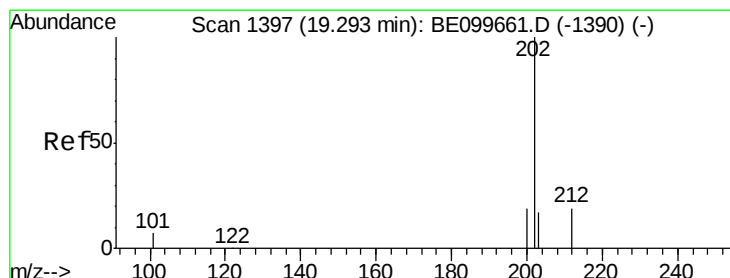
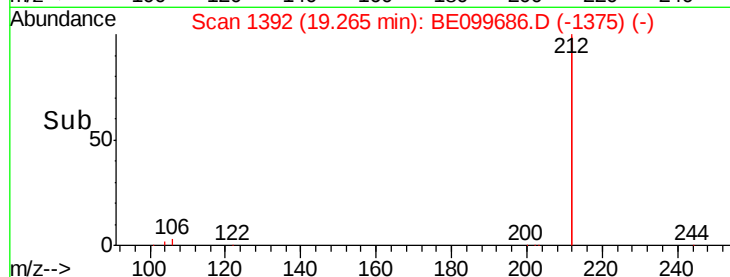
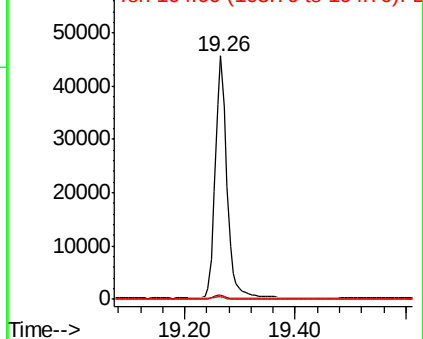
212 100

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: 0.352 ng

RT: 19.29 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

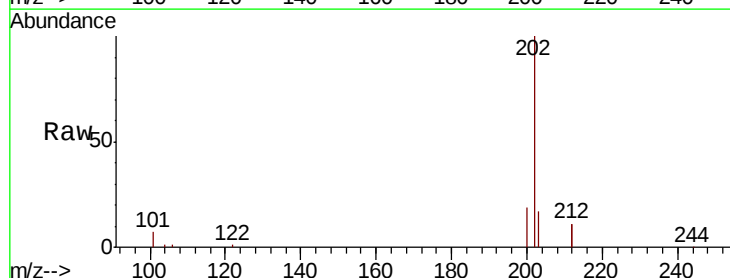
Tgt Ion:202 Resp: 19062

Ion Ratio Lower Upper

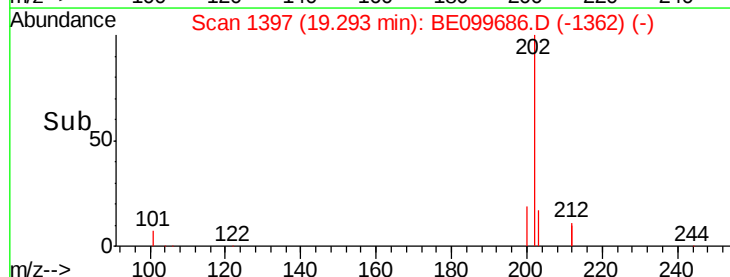
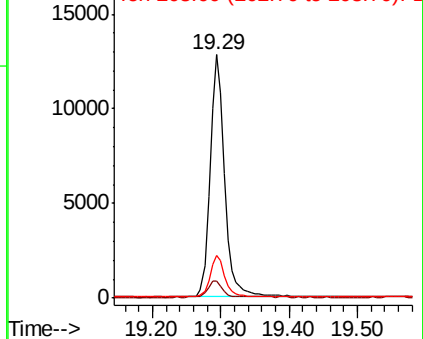
202 100

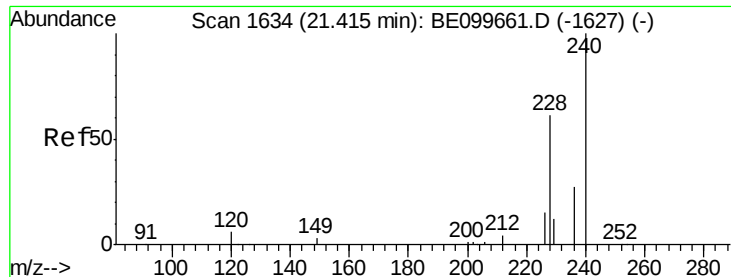
101 6.9 5.2 7.8

203 16.9 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

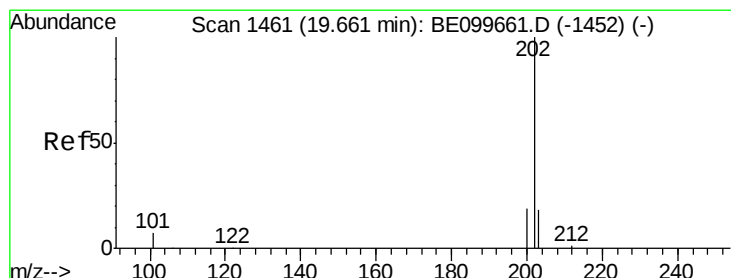
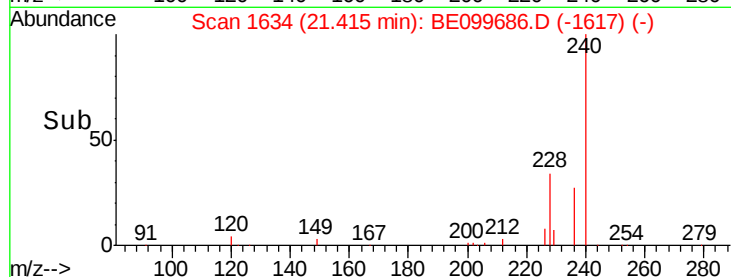
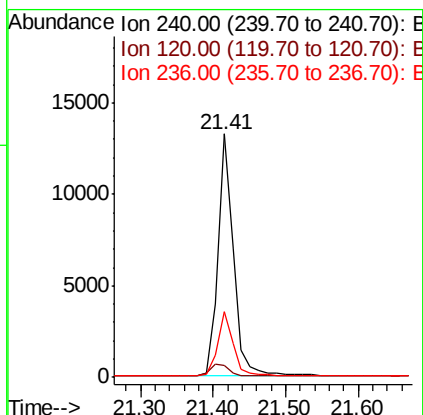
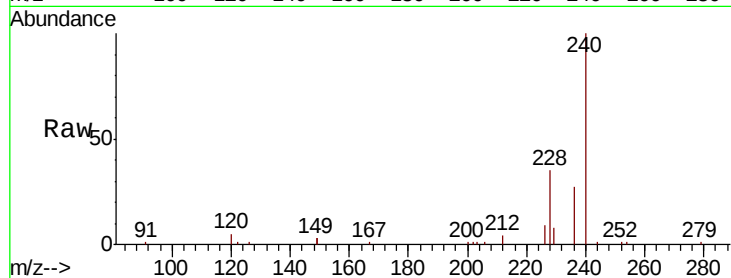




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.41 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: BE099686.D
 Acq: 21 May 2019 12:31

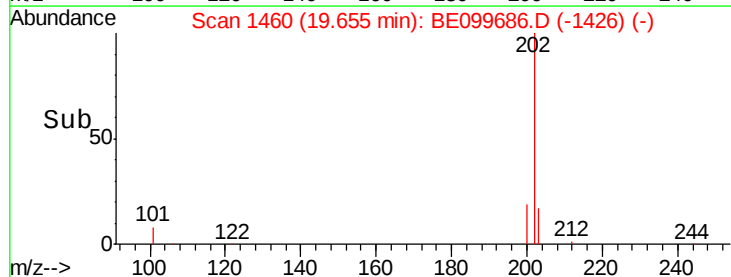
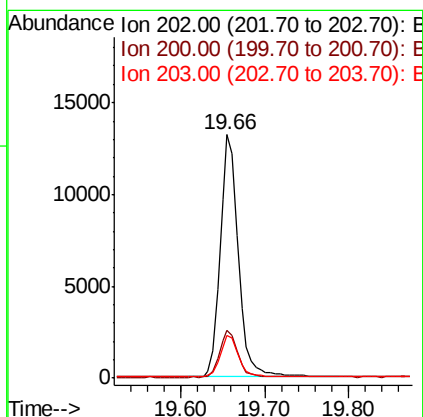
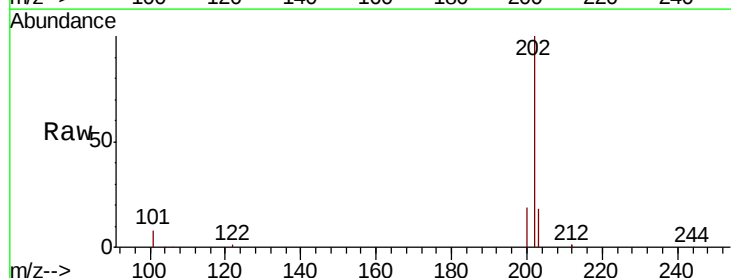
Instrument :
 BNA_E
 ClientSampleId :

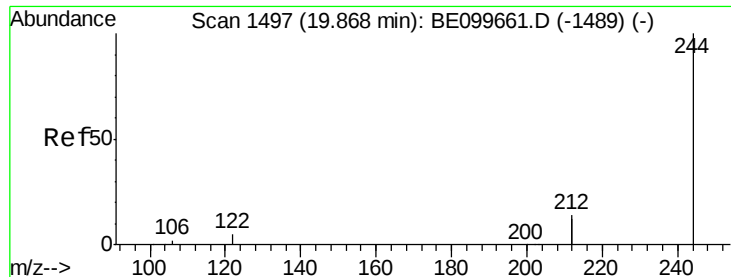
Tot Ion:240 Resp: 19889
 Ion Ratio Lower Upper
 240 100
 120 4.9 5.4 8.0#
 236 27.1 21.7 32.5



#28
 Pyrene
 Concen: 0.400 ng
 RT: 19.66 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BE099686.D
 Acq: 21 May 2019 12:31

Tgt Ion:202 Resp: 19999
 Ion Ratio Lower Upper
 202 100
 200 19.1 15.4 23.2
 203 17.5 13.8 20.8





#29

Terphenyl-d14

Concen: 0.382 ng

RT: 19.86 min Scan# 1496

Delta R.T. -0.01 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

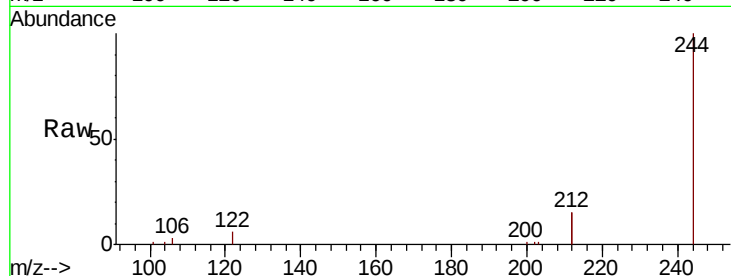
Tot Ion:244 Resp: 13568

Ion Ratio Lower Upper

244 100

212 29.0 22.5 33.7

122 6.1 4.3 6.5

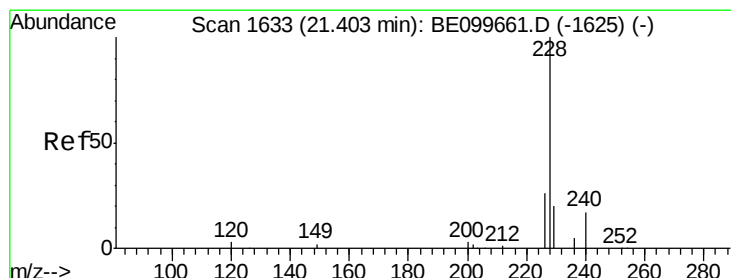
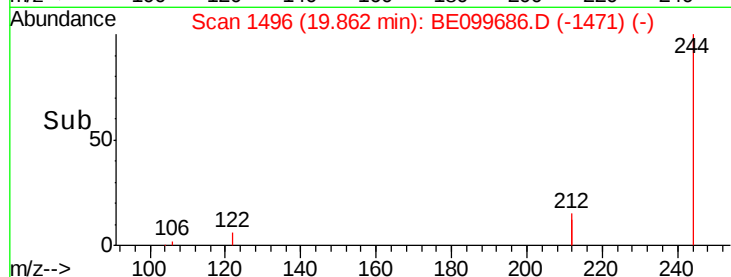
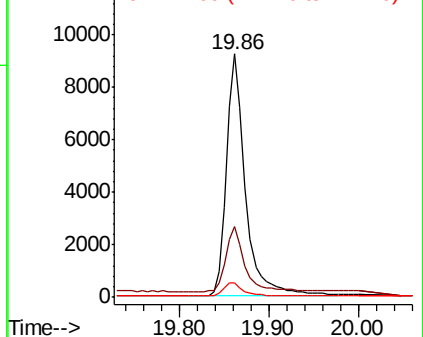


Abundance

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: 0.402 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

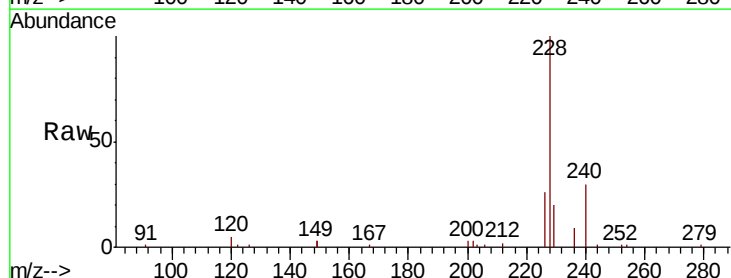
Tgt Ion:228 Resp: 22711

Ion Ratio Lower Upper

228 100

226 25.8 21.3 31.9

229 19.9 16.1 24.1

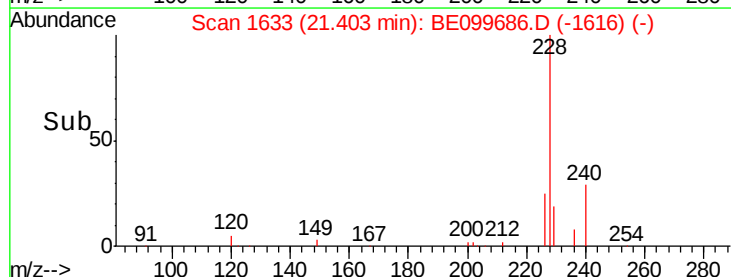
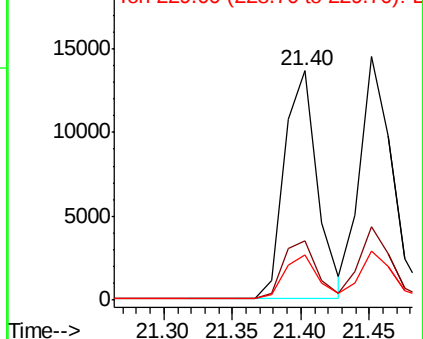


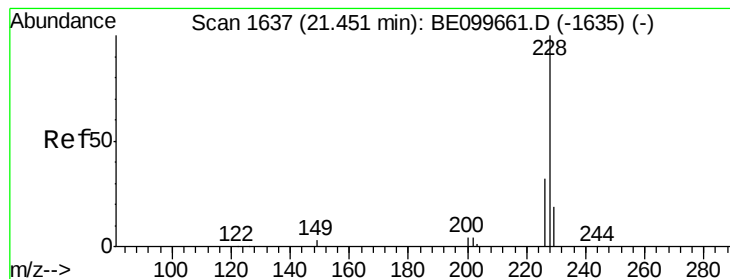
Abundance

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: 0.385 ng

RT: 21.45 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

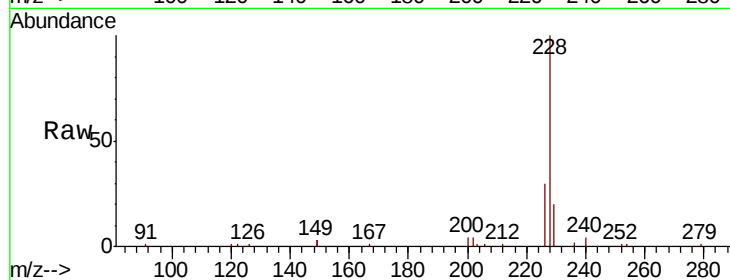
Tot Ion:228 Resp: 23276

Ion Ratio Lower Upper

228 100

226 30.3 24.7 37.1

229 20.4 15.8 23.6

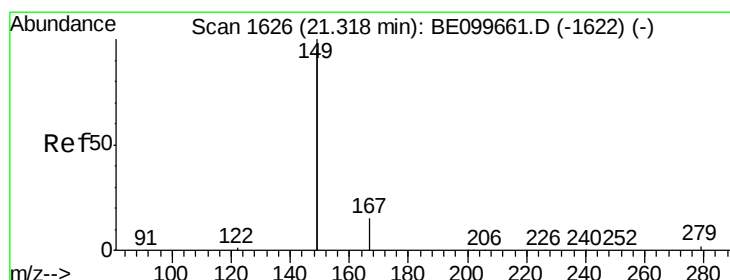
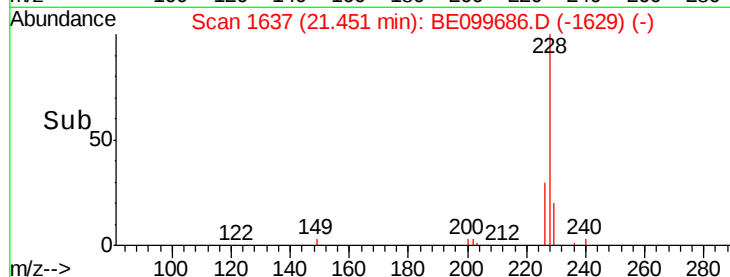
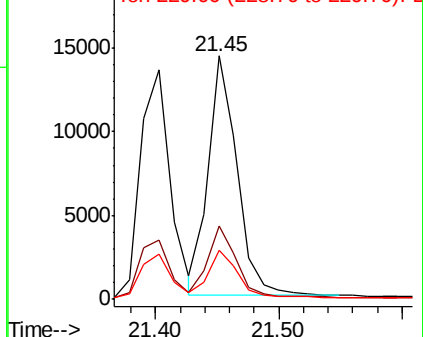


Abundance

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: 0.471 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

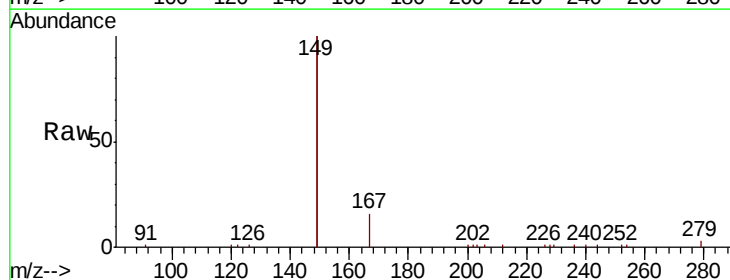
Tgt Ion:149 Resp: 30690

Ion Ratio Lower Upper

149 100

167 7.6 6.2 9.4

279 1.6 1.2 1.8

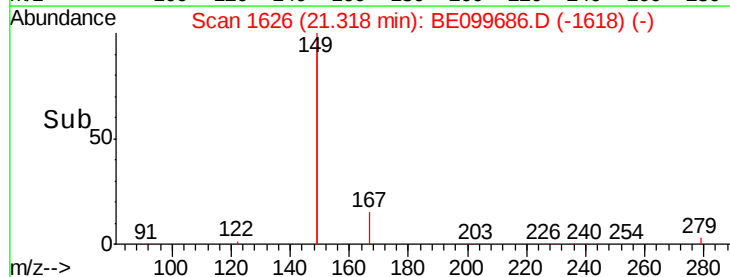
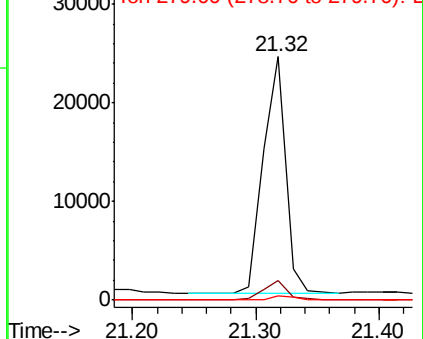


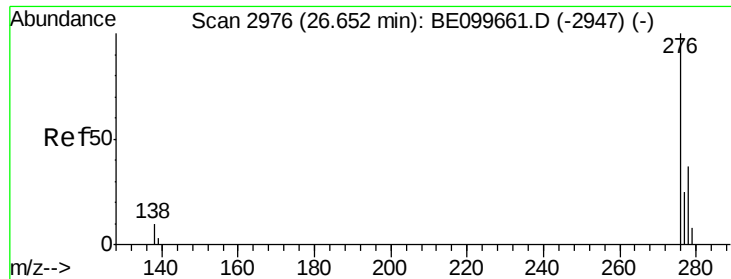
Abundance

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

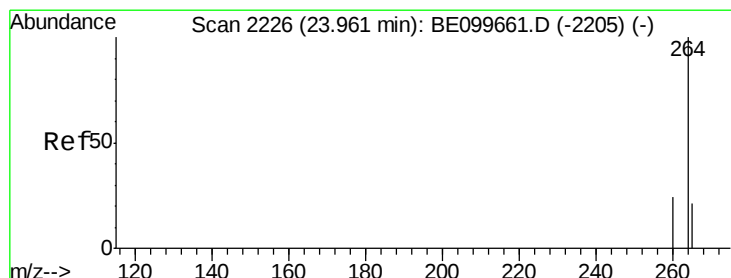
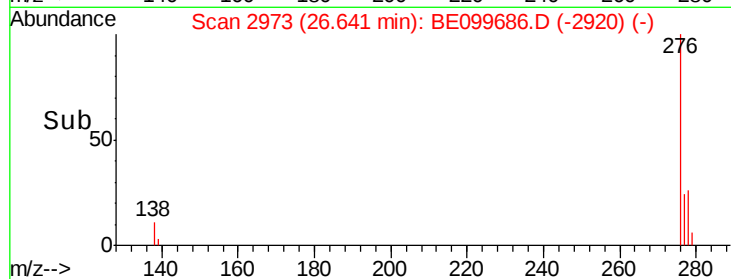
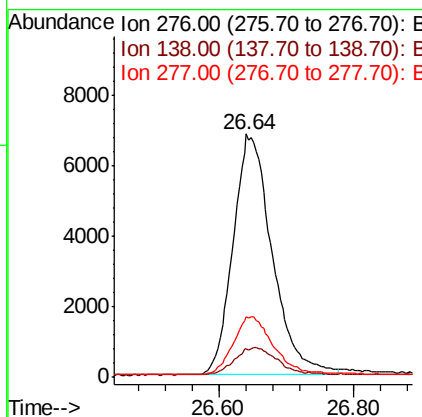
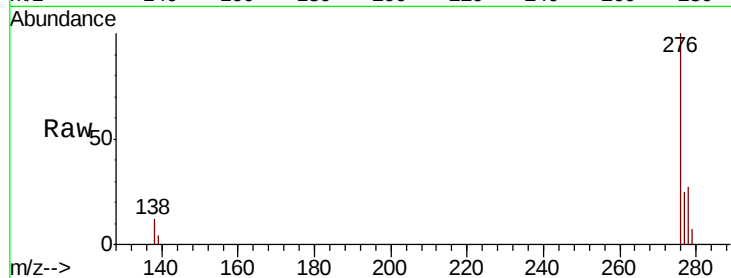




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.376 ng
 RT: 26.64 min Scan# 2973
 Delta R.T. -0.01 min
 Lab File: BE099686.D
 Acq: 21 May 2019 12:31

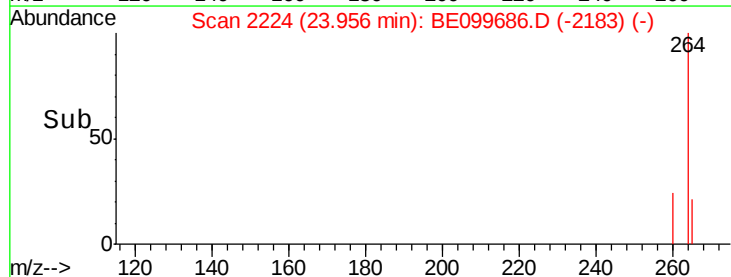
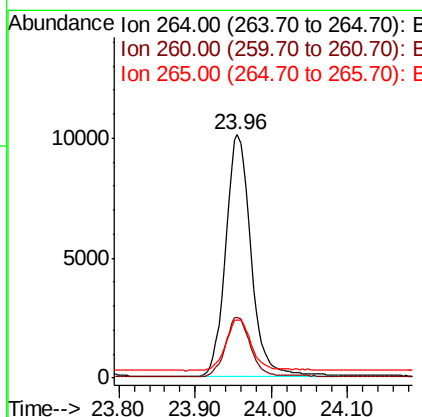
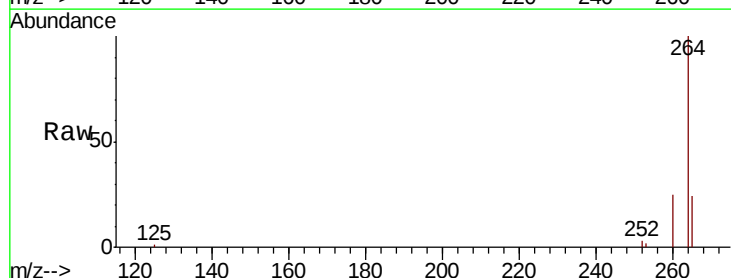
Instrument :
 BNA_E
 ClientSampleId :

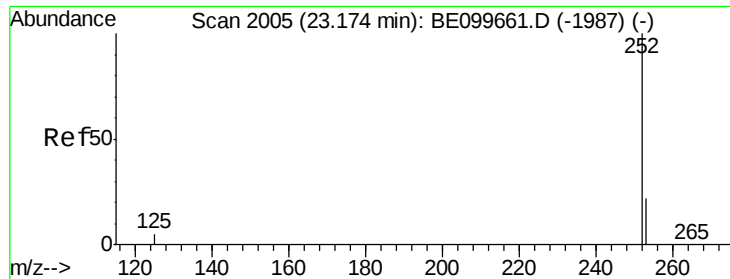
Tot Ion:276 Resp: 27456
 Ion Ratio Lower Upper
 276 100
 138 12.3 9.6 14.4
 277 25.2 19.2 28.8



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.96 min Scan# 2224
 Delta R.T. -0.01 min
 Lab File: BE099686.D
 Acq: 21 May 2019 12:31

Tgt Ion:264 Resp: 23317
 Ion Ratio Lower Upper
 264 100
 260 24.8 19.6 29.4
 265 24.1 19.1 28.7





#35

Benzo(b)fluoranthene

Concen: 0.369 ng

RT: 23.22 min Scan# 2018

Delta R.T. 0.05 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

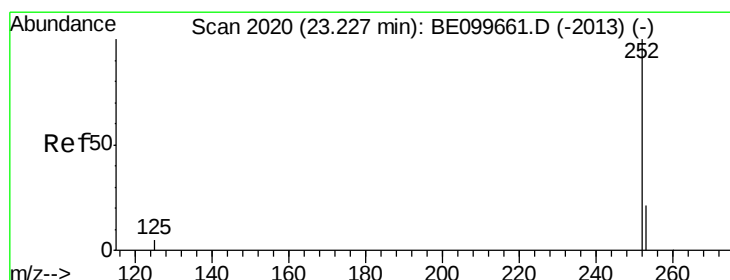
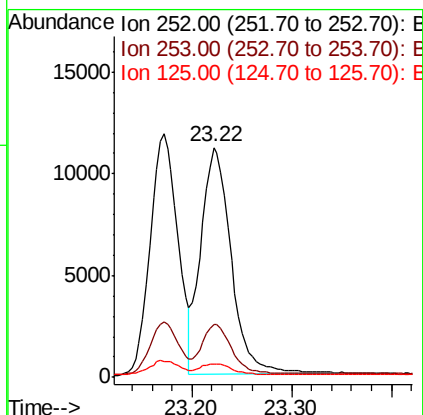
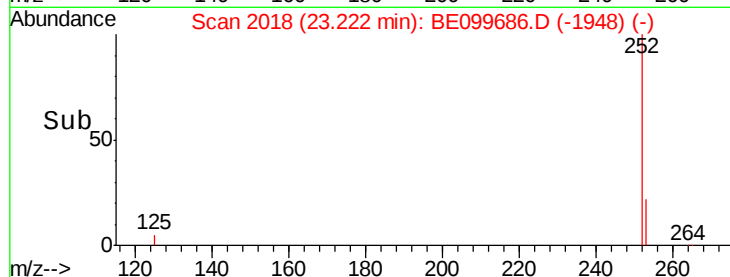
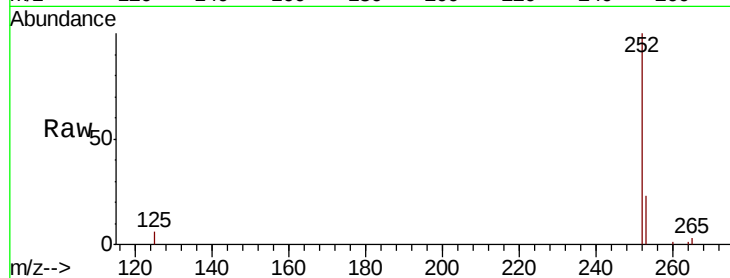
Tot Ion:252 Resp: 23561

Ion Ratio Lower Upper

252 100

253 22.9 18.2 27.4

125 6.0 4.5 6.7



#36

Benzo(k)fluoranthene

Concen: 0.354 ng

RT: 23.22 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

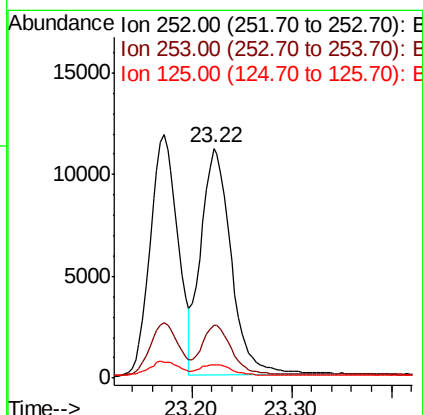
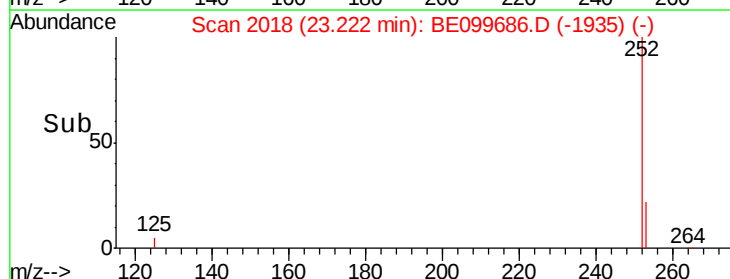
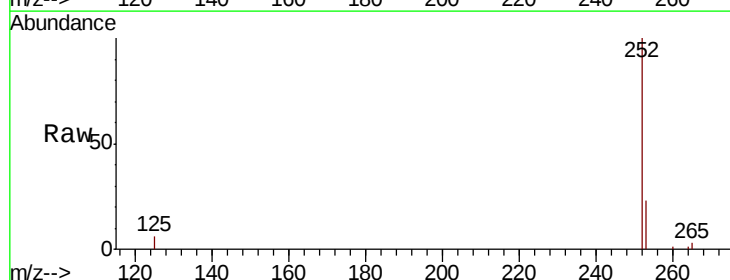
Tgt Ion:252 Resp: 23561

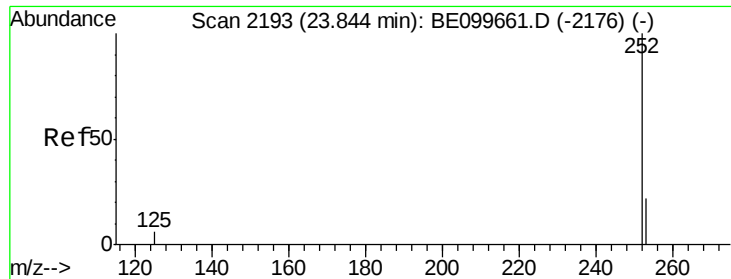
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 6.0 4.6 6.8





#37

Benzo(a)pyrene

Concen: 0.360 ng

RT: 23.84 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :

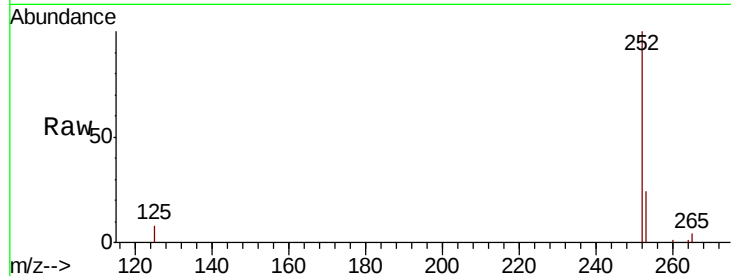
Tot Ion:252 Resp: 22107

Ion Ratio Lower Upper

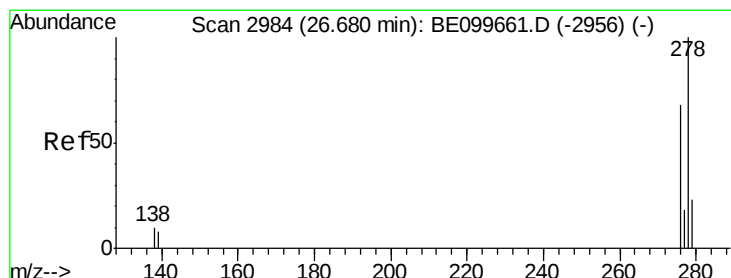
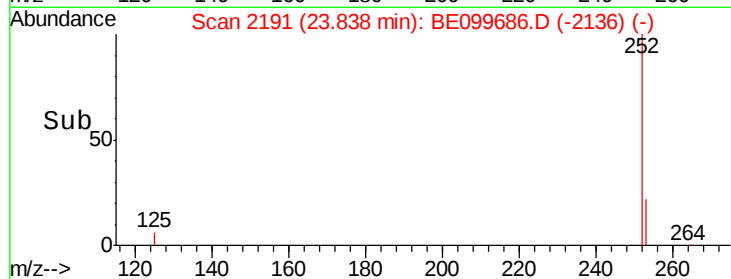
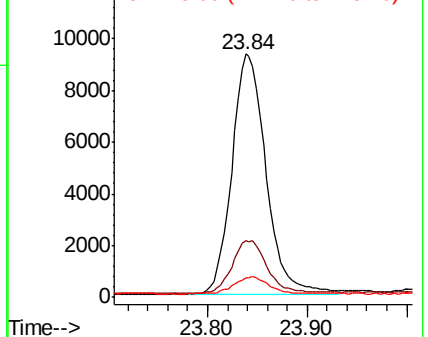
252 100

253 23.5 18.9 28.3

125 7.9 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: 0.352 ng

RT: 26.68 min Scan# 2983

Delta R.T. -0.00 min

Lab File: BE099686.D

Acq: 21 May 2019 12:31

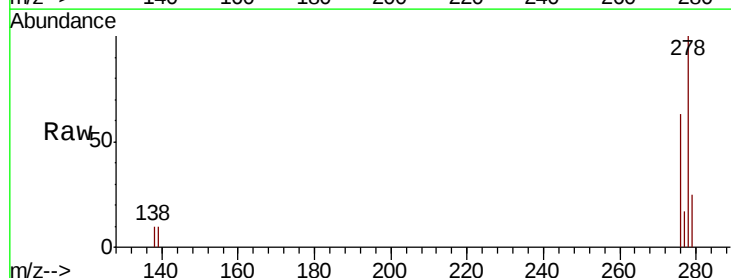
Tgt Ion:278 Resp: 22740

Ion Ratio Lower Upper

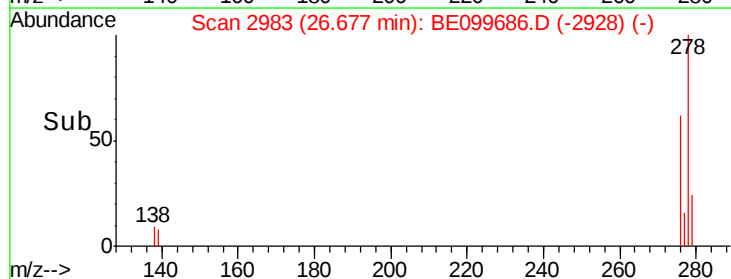
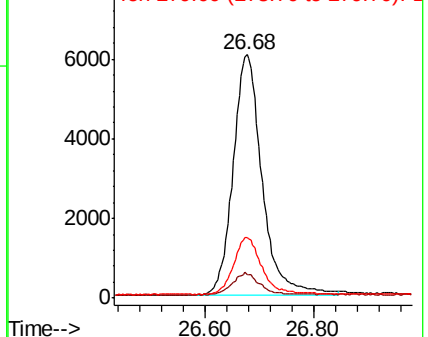
278 100

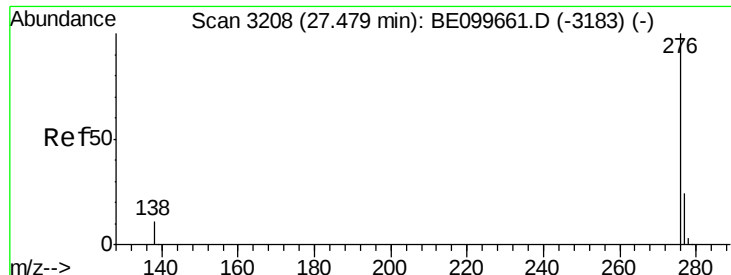
139 9.5 6.9 10.3

279 24.9 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(a,h,i)perylene

Concen: 0.355 ng

RT: 27.48 min Scan# 3208

Delta R.T. 0.00 min

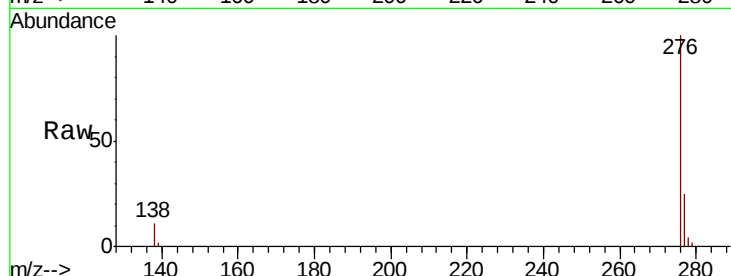
Lab File: BE099686.D

Acq: 21 May 2019 12:31

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 23157

Ion Ratio Lower Upper

276 100

277 24.8 19.8 29.6

138 11.0 9.2 13.8

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

