

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050319\
 Data File : BE099531.D
 Acq On : 3 May 2019 15:55
 Operator : JU/SJ
 Sample : K2588-04
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B193-042519

Quant Time: May 03 23:36:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	2593	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9645	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7808	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	24824	0.40	ng	0.00
27) Chrysene-d12	21.37	240	29408	0.40	ng	0.00
34) Perylene-d12	23.88	264	33867	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2234	0.31	ng	0.00
5) Phenol-d6	6.97	99	3240	0.34	ng	0.00
8) Nitrobenzene-d5	8.96	82	2656	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	4869	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1629	0.33	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	7470	0.25	ng	0.00
25) Fluoranthene-d10	19.22	212	79759	0.24	ng	0.00
29) Terphenyl-d14	19.82	244	16511	0.31	ng	0.00

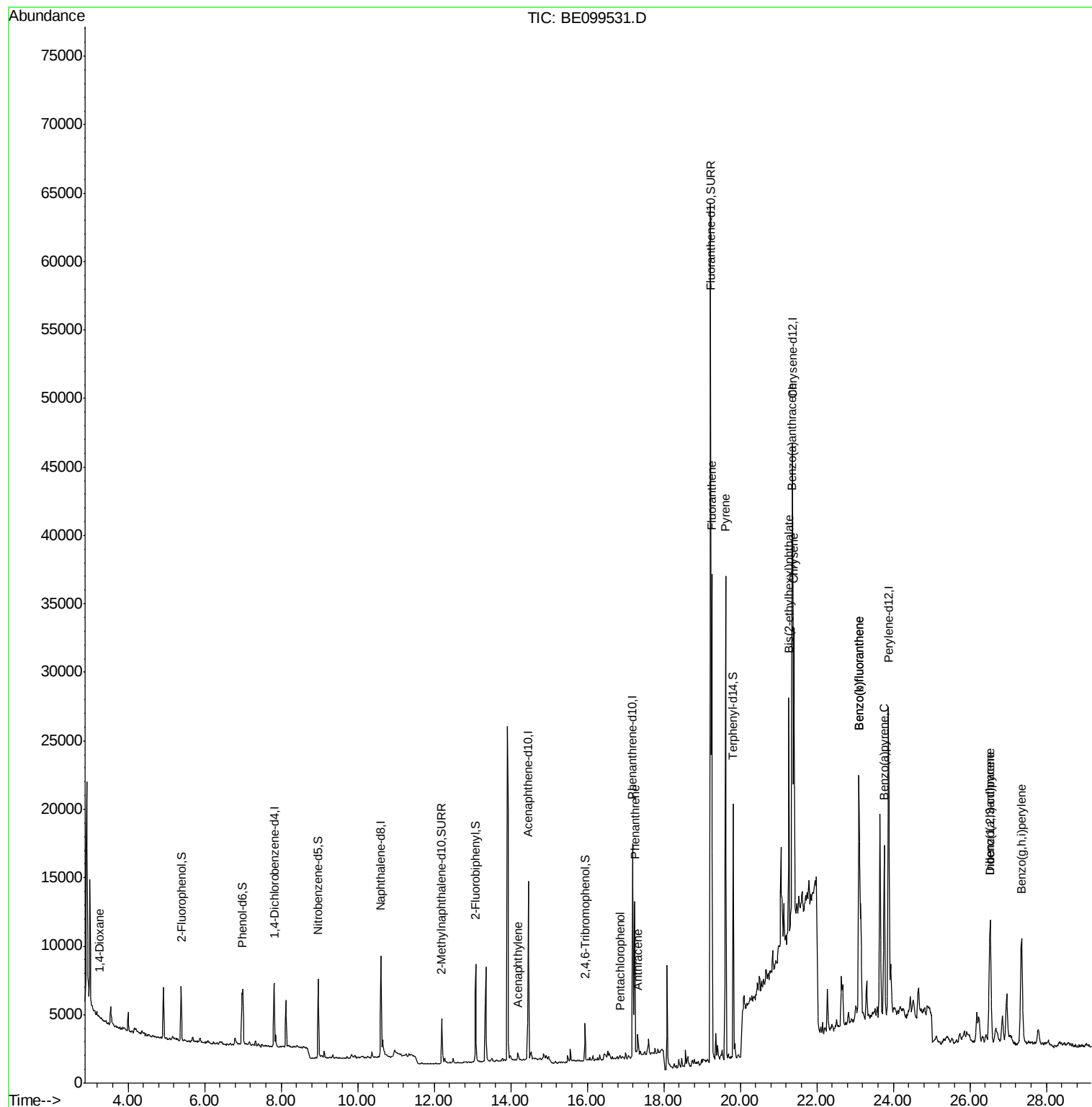
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.25	88	80	0.022	ng	# 27
16) Acenaphthylene	14.18	152	921	0.024	ng	# 92
22) Pentachlorophenol	16.85	266	130	0.232	ng	# 83
23) Phenanthrene	17.24	178	14857	0.232	ng	# 98
24) Anthracene	17.32	178	1610	0.026	ng	# 84
26) Fluoranthene	19.25	202	32286	0.336	ng	# 99
28) Pyrene	19.61	202	31557	0.412	ng	# 95
30) Benzo(a)anthracene	21.35	228	22296	0.238	ng	# 93
31) Chrysene	21.40	228	21331	0.233	ng	# 92
32) Bis(2-ethylhexyl)phthalate	21.27	149	18462	0.068	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.53	276	16946	0.156	ng	# 97
35) Benzo(b)fluoranthene	23.11	252	30755	0.315	ng	# 64
36) Benzo(k)fluoranthene	23.11	252	30755	0.327	ng	# 64
37) Benzo(a)pyrene	23.76	252	19975	0.216	ng	# 81
38) Dibenzo(a,h)anthracene	26.54	278	6586	0.070	ng	# 46
39) Benzo(g,h,i)perylene	27.35	276	21340	0.226	ng	# 89

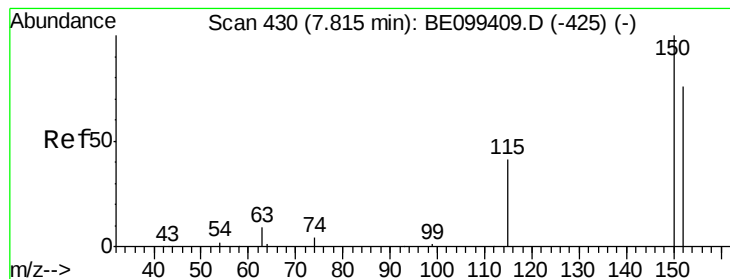
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

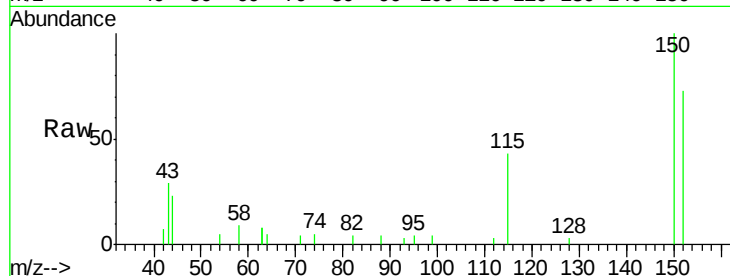
Tot Ion:152 Resp: 2593

Ion Ratio Lower Upper

152 100

150 137.5 104.8 157.2

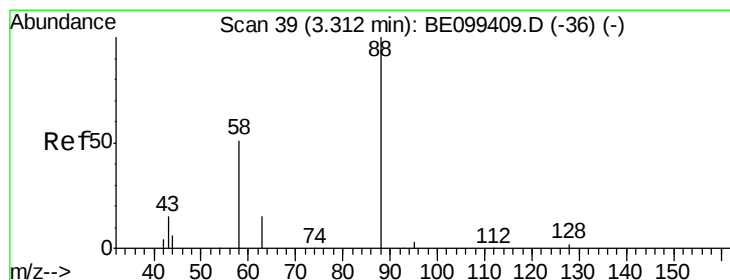
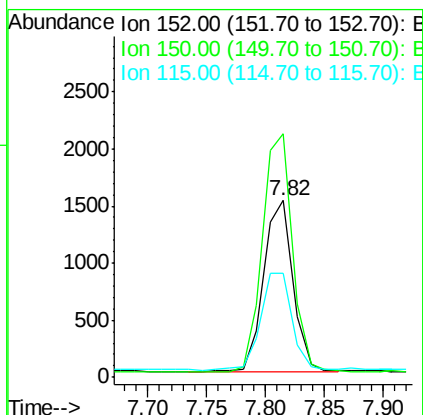
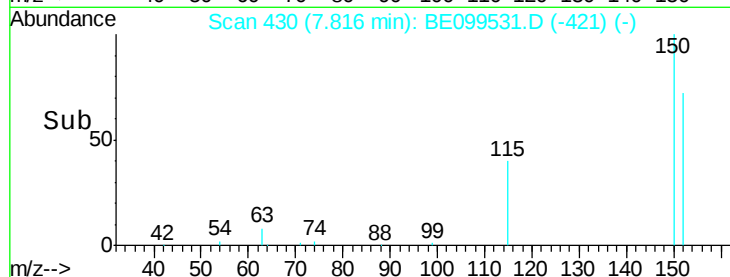
115 58.6 46.6 69.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.022 ng

RT: 3.25 min Scan# 34

Delta R.T. -0.06 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

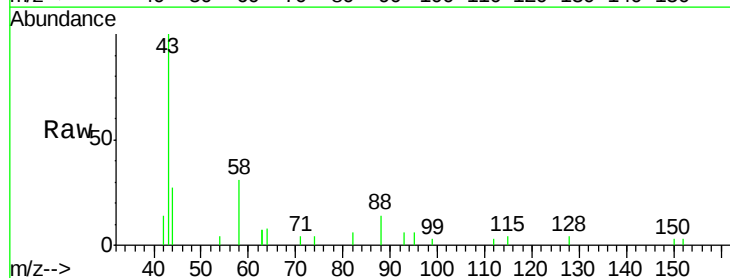
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

58 0.0 51.0 76.6#

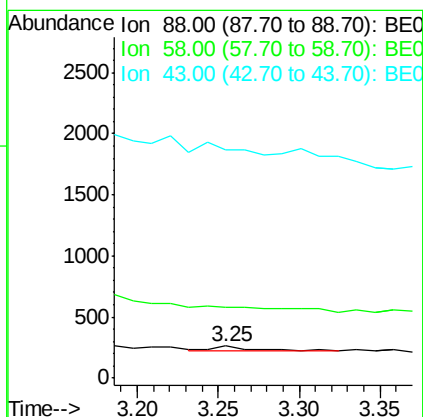
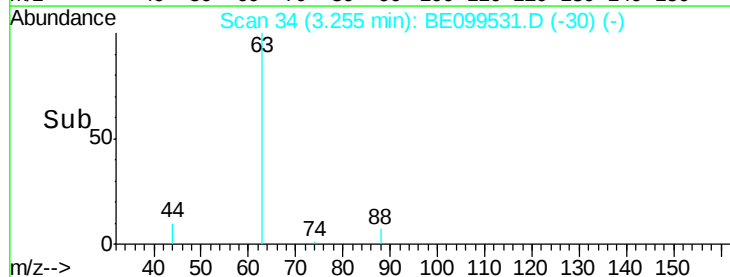
43 0.0 20.6 30.8#

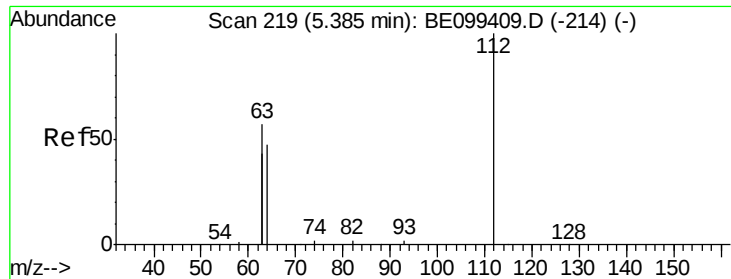


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.312 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

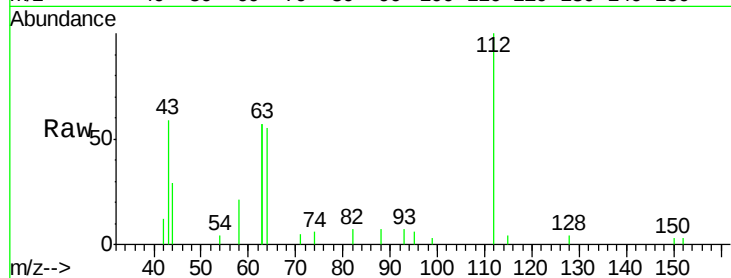
Tot Ion:112 Resp: 2234

Ion Ratio Lower Upper

112 100

64 56.1 47.4 71.0

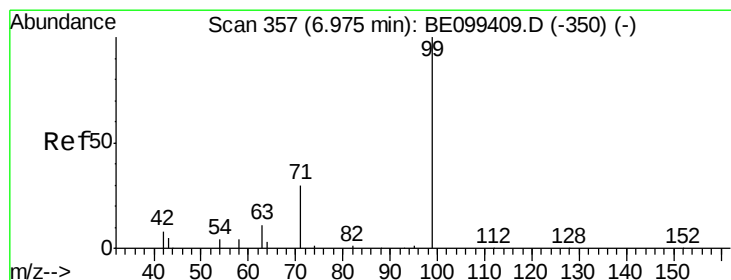
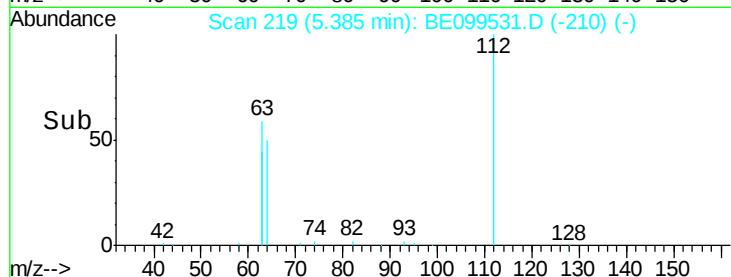
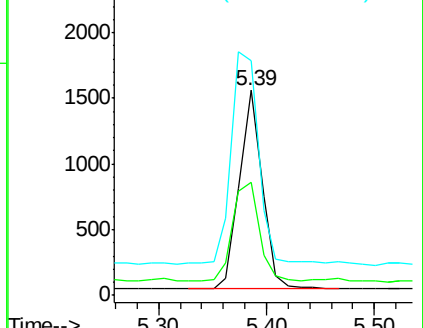
63 130.9 104.3 156.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.340 ng

RT: 6.97 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

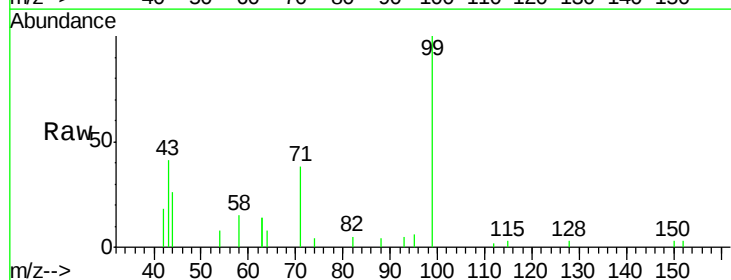
Tgt Ion: 99 Resp: 3240

Ion Ratio Lower Upper

99 100

42 24.0 14.9 22.3#

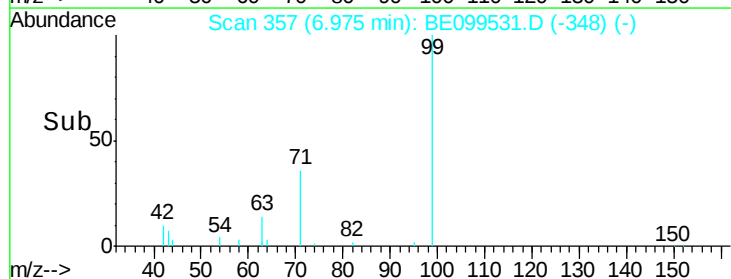
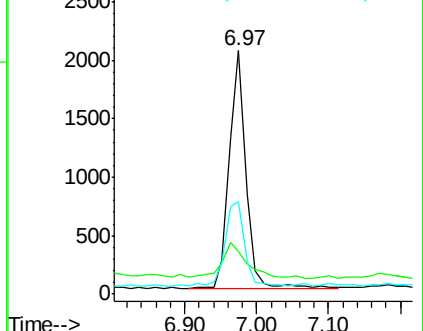
71 40.4 33.0 49.6

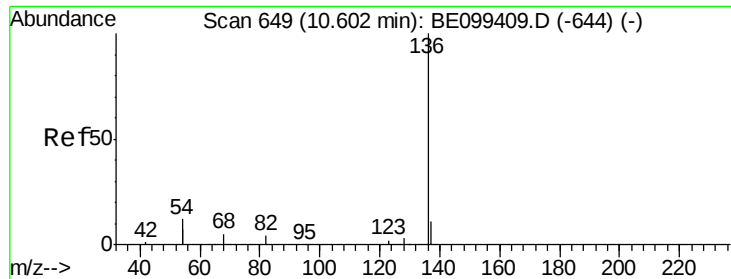


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

Tot Ion:136 Resp: 9645

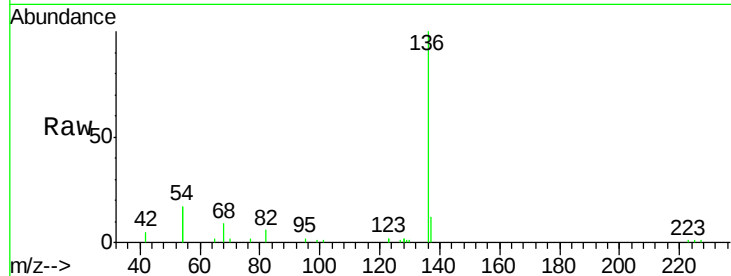
Ion Ratio Lower Upper

136 100

137 11.8 9.8 14.8

54 33.2 18.5 27.7#

68 8.8 4.7 7.1#

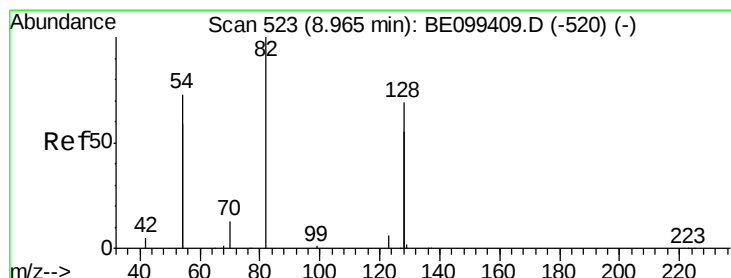
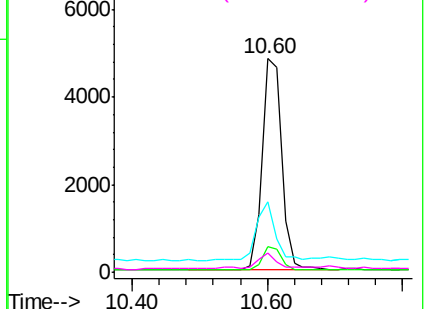
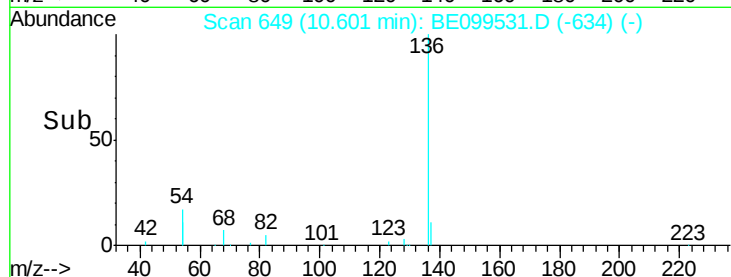


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.294 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

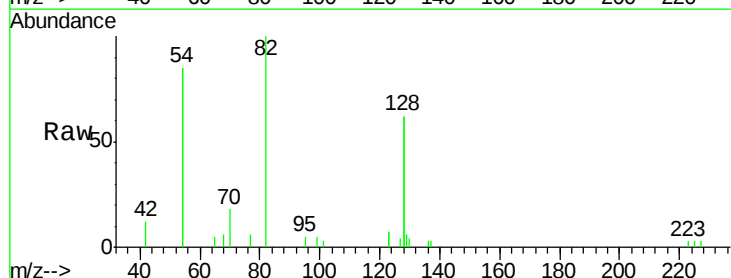
Tgt Ion: 82 Resp: 2656

Ion Ratio Lower Upper

82 100

128 123.4 107.0 160.4

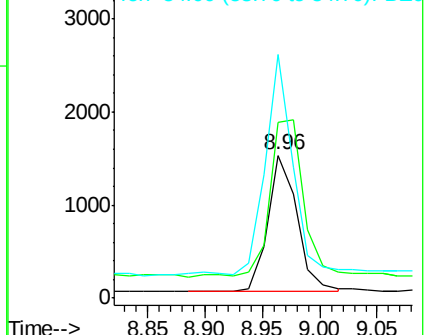
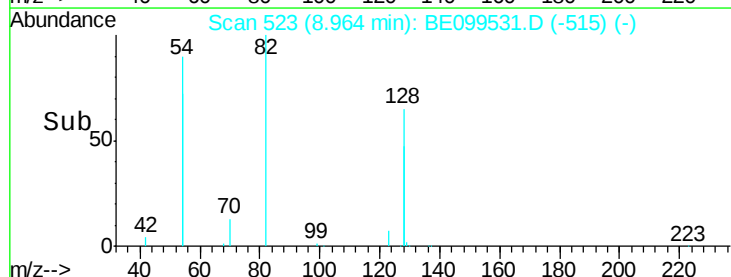
54 170.9 113.1 169.7#

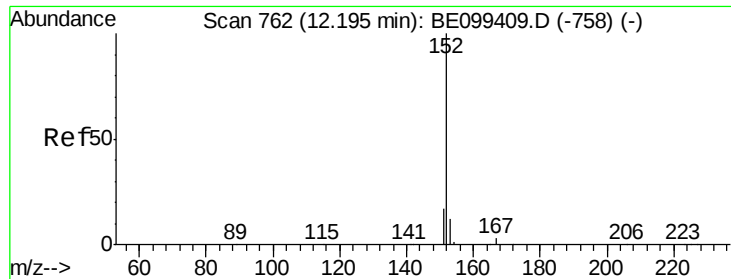


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

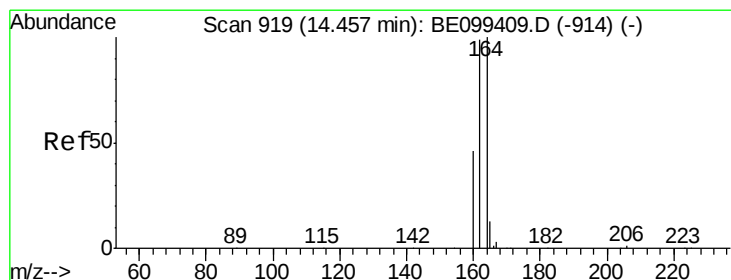
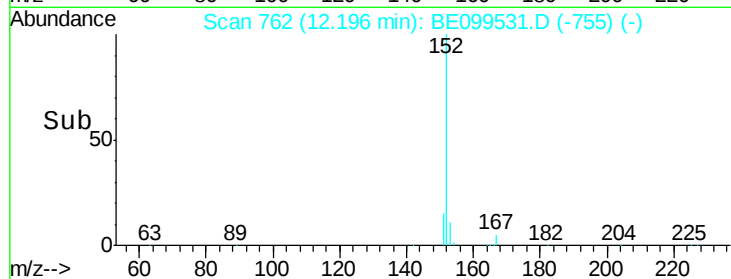
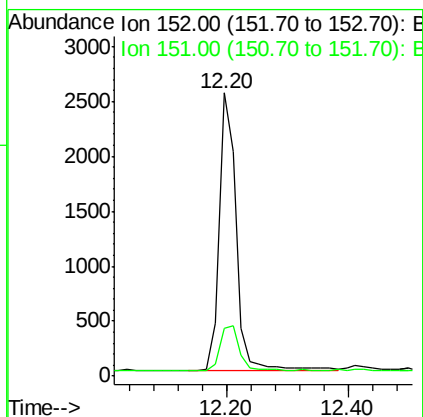
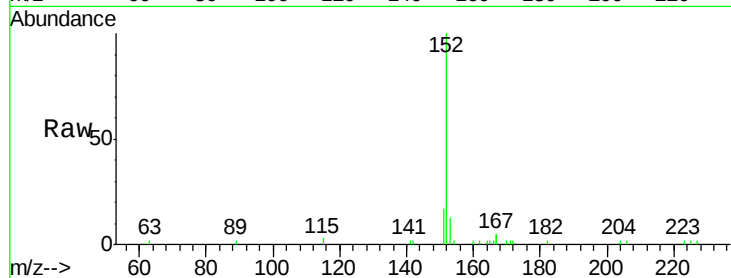




#11
 2-Methylnaphthalene-d10
 Concen: 0.280 ng
 RT: 12.20 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

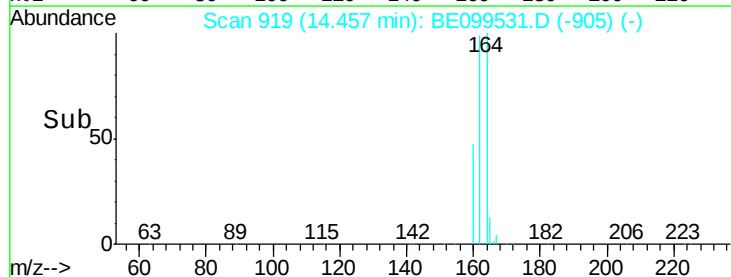
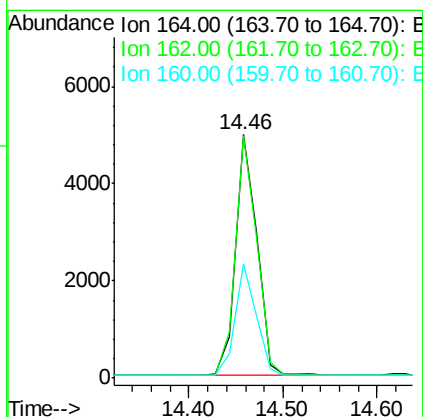
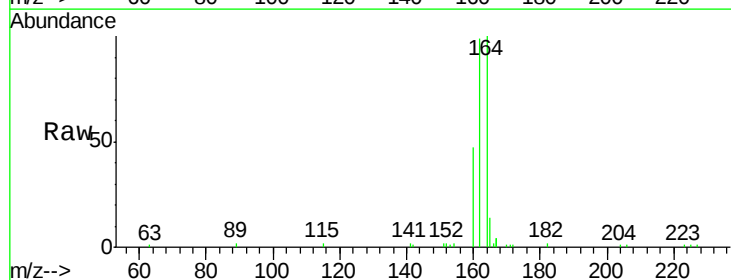
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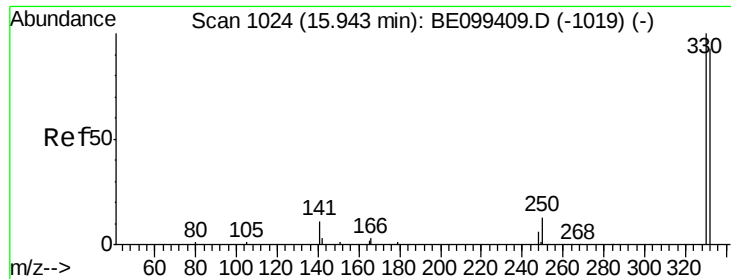
Tot Ion:152 Resp: 4869
 Ion Ratio Lower Upper
 152 100
 151 19.2 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

Tgt Ion:164 Resp: 7808
 Ion Ratio Lower Upper
 164 100
 162 99.3 79.0 118.4
 160 47.2 37.0 55.4

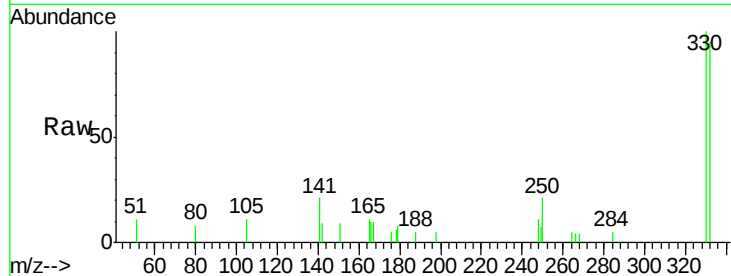




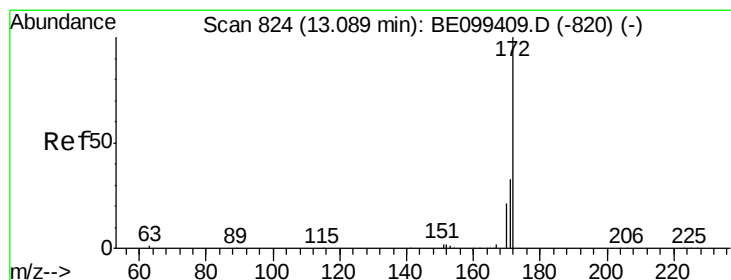
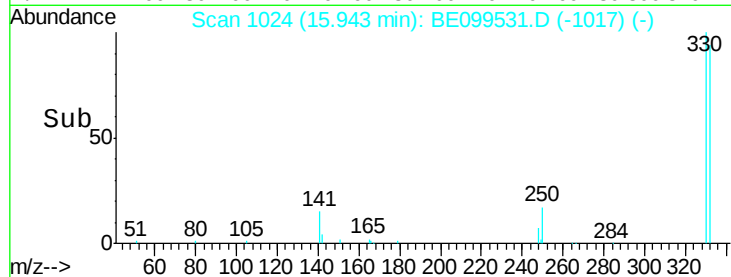
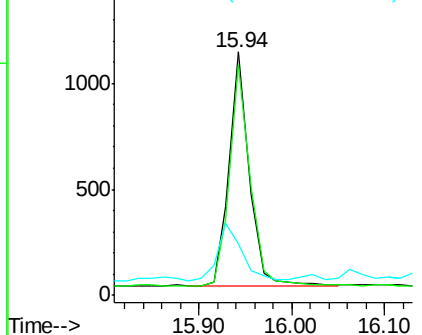
#14
 2,4,6-Tribromophenol
 Concen: 0.331 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B193-042519

Tot Ion:330 Resp: 1629
 Ion Ratio Lower Upper
 330 100
 332 98.3 71.5 107.3
 141 29.7 24.0 36.0

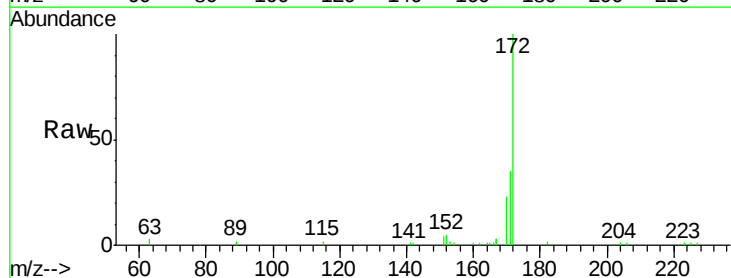


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

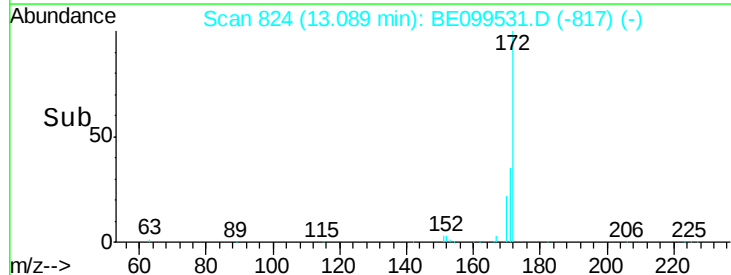
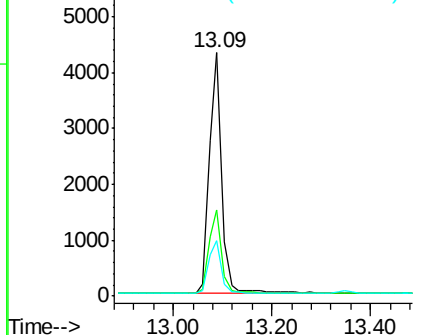


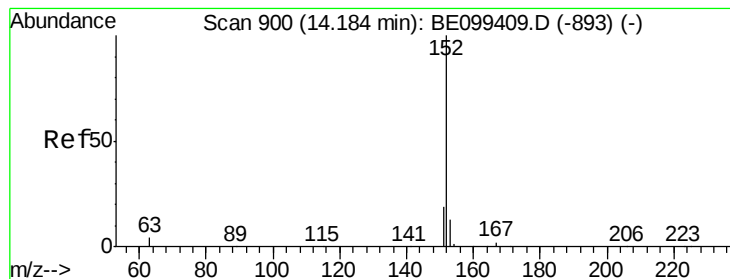
#15
 2-Fluorobiphenyl
 Concen: 0.251 ng
 RT: 13.09 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

Tgt Ion:172 Resp: 7470
 Ion Ratio Lower Upper
 172 100
 171 35.3 26.6 39.8
 170 23.0 17.0 25.6



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





#16

Acenaphthylene

Concen: 0.024 ng

RT: 14.18 min Scan# 900

Delta R.T. 0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

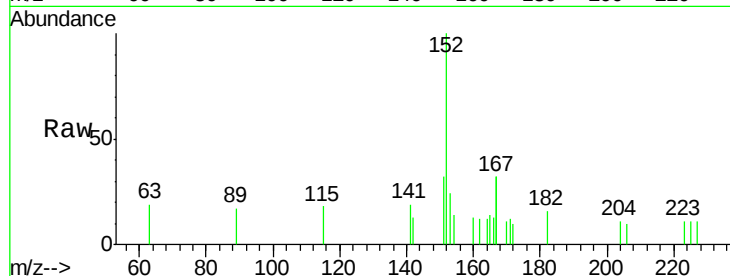
Tot Ion:152 Resp: 921

Ion Ratio Lower Upper

152 100

151 24.4 15.4 23.2#

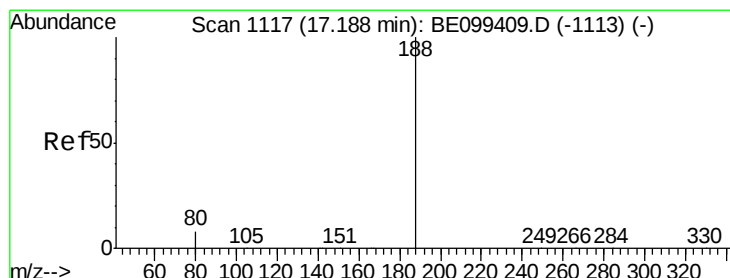
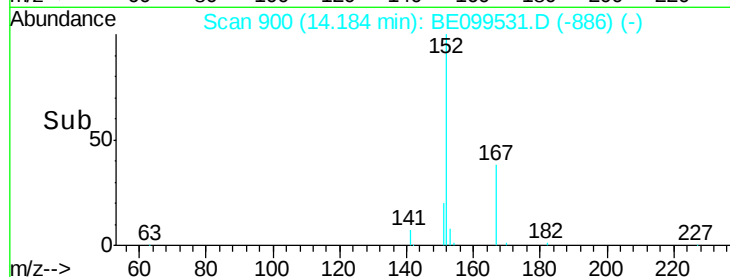
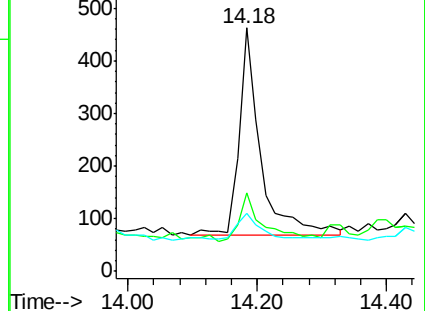
153 13.2 9.8 14.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

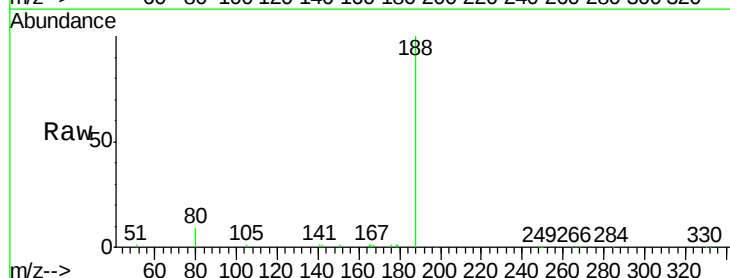
Tgt Ion:188 Resp: 24824

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

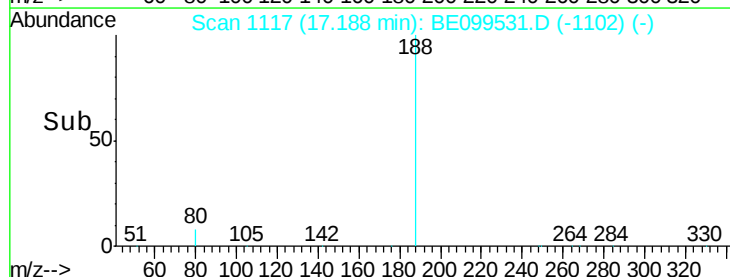
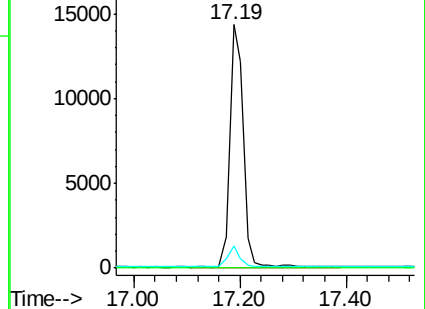
80 9.1 6.7 10.1

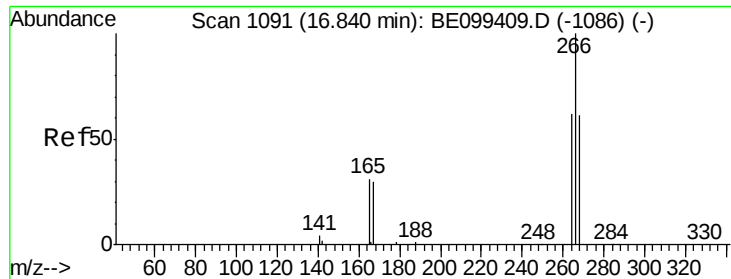


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.232 ng

RT: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099531.D

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Instrument :

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ClientSampleId :

PST-001-B193-042519

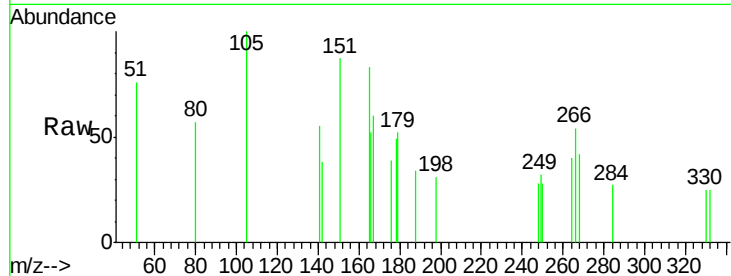
Tot Ion:266 Resp: 130

Ion Ratio Lower Upper

266 100

264 74.5 50.8 76.2

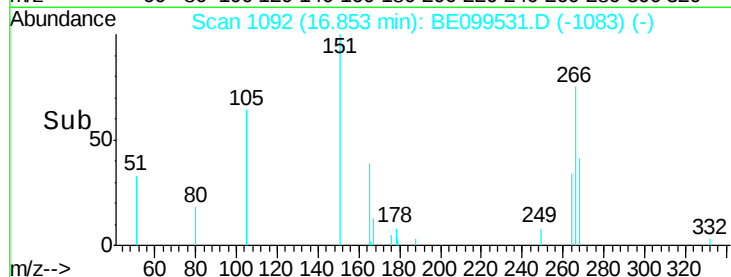
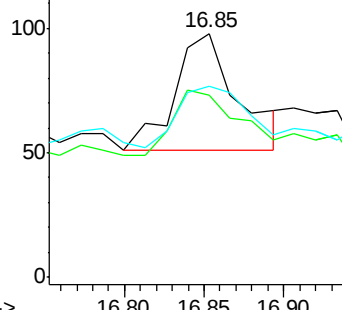
268 78.6 50.5 75.7#



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: 0.232 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

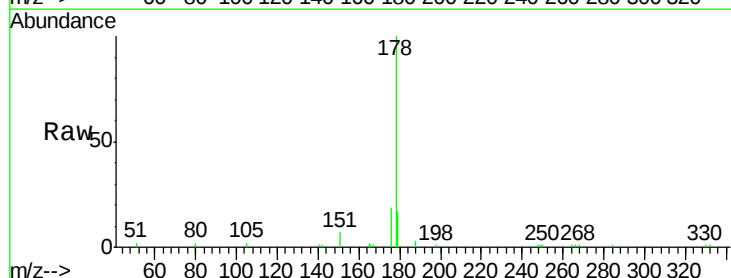
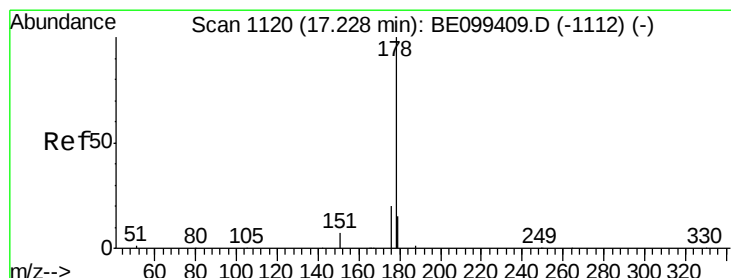
Tgt Ion:178 Resp: 14857

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

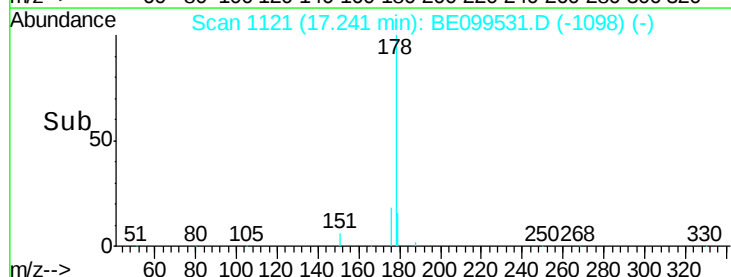
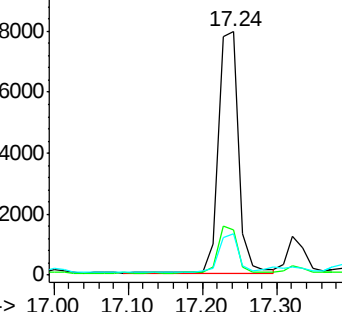
179 15.5 12.0 18.0

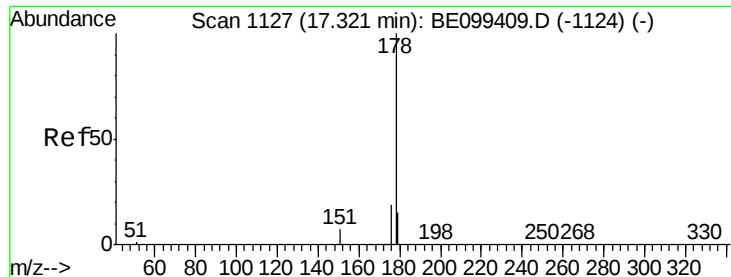


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.026 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

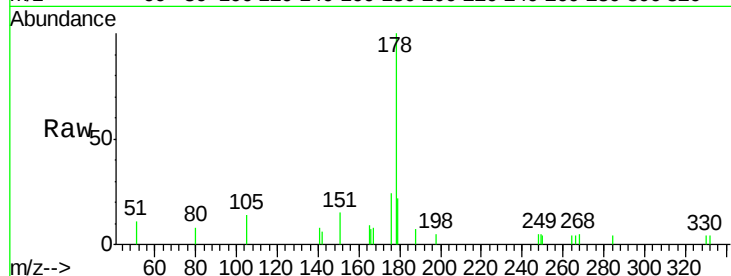
Tot Ion:178 Resp: 1610

Ion Ratio Lower Upper

178 100

176 21.6 14.9 22.3

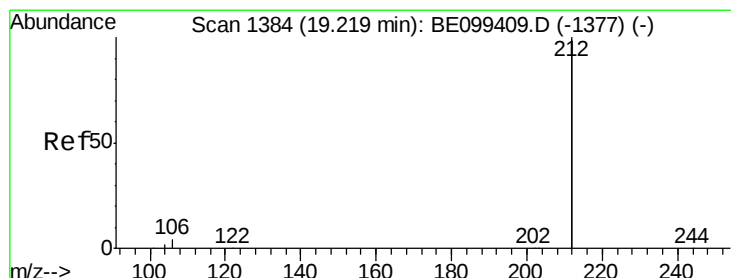
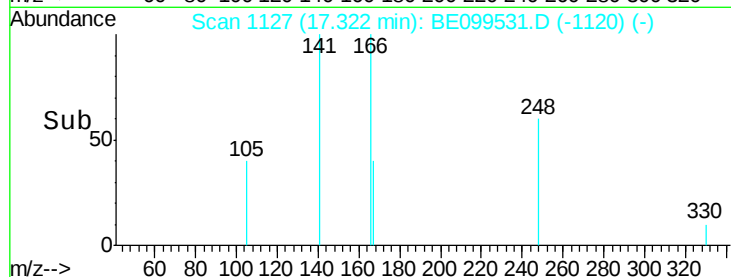
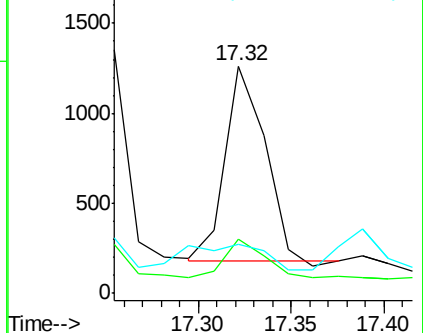
179 26.3 11.9 17.9#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.238 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

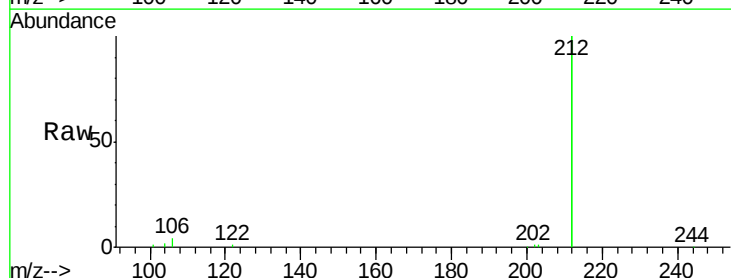
Tgt Ion:212 Resp: 79759

Ion Ratio Lower Upper

212 100

106 2.0 1.5 2.3

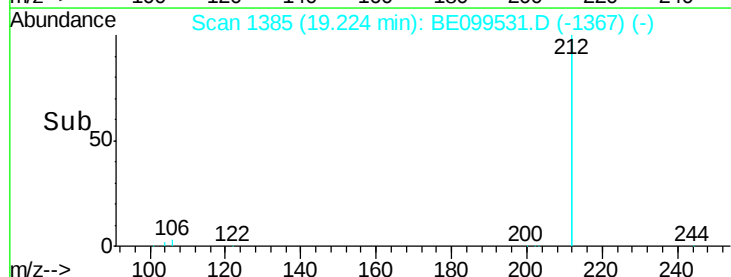
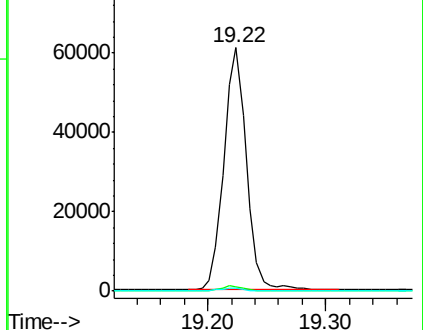
104 1.2 0.9 1.3

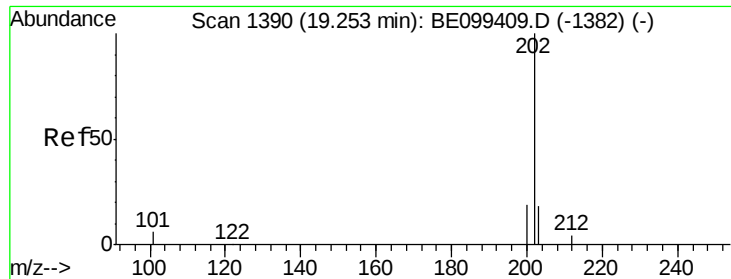


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

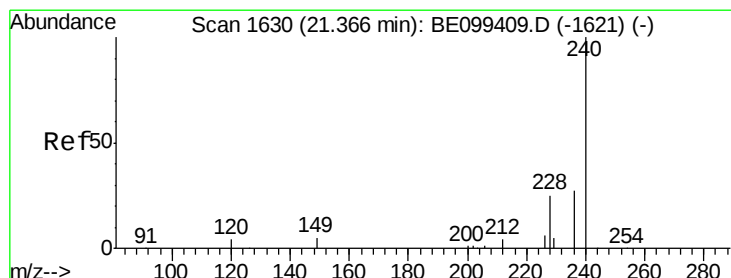
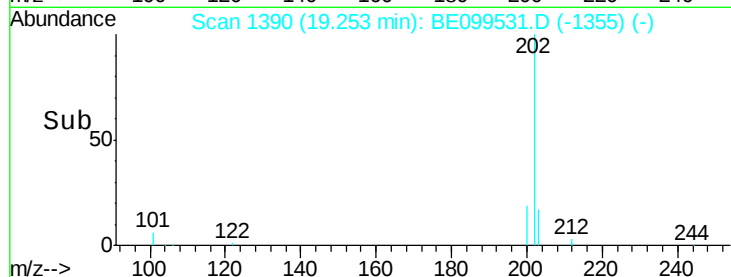
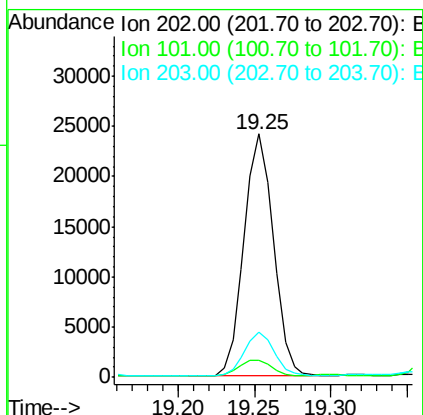
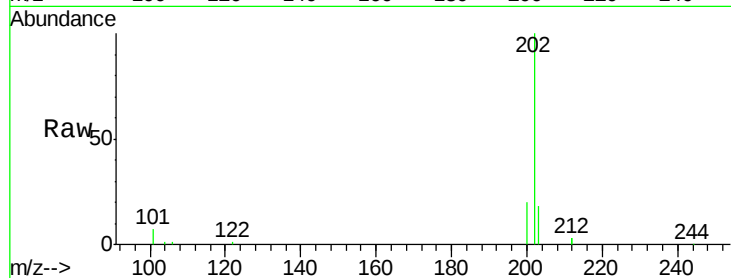




#26
 Fluoranthene
 Concen: 0.336 ng
 RT: 19.25 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

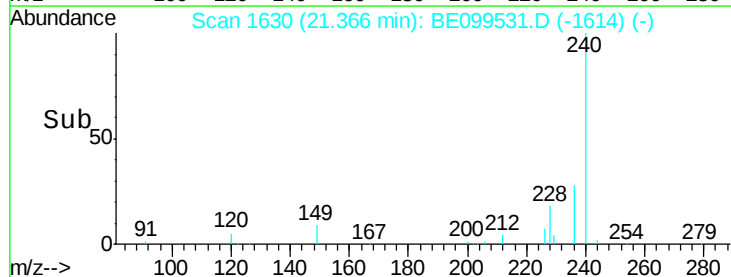
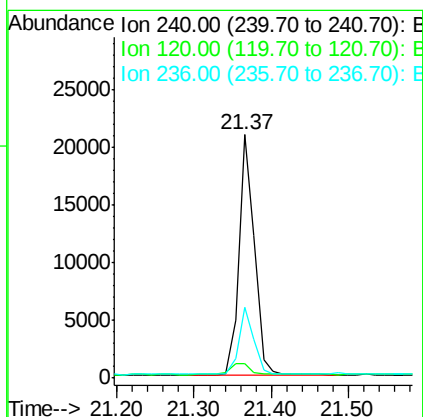
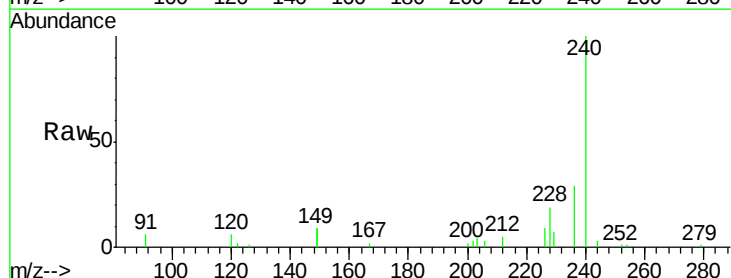
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B193-042519

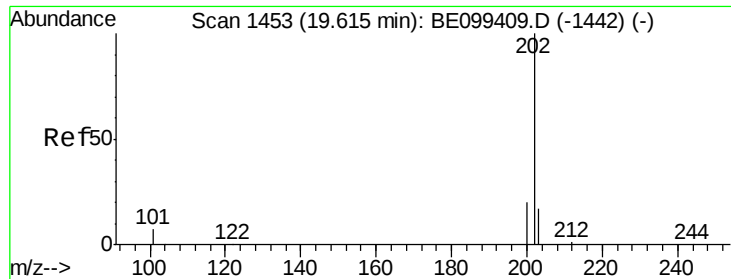
Tot Ion:202 Resp: 32286
 Ion Ratio Lower Upper
 202 100
 101 7.9 5.4 8.0
 203 17.7 13.9 20.9



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: BE099531.D
 Acq: 3 May 2019 15:55

Tgt Ion:240 Resp: 29408
 Ion Ratio Lower Upper
 240 100
 120 6.0 4.0 6.0#
 236 29.2 22.0 33.0

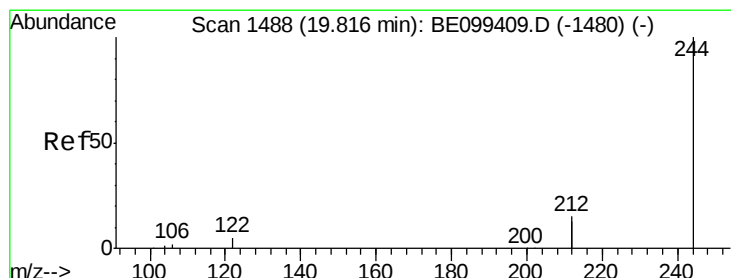
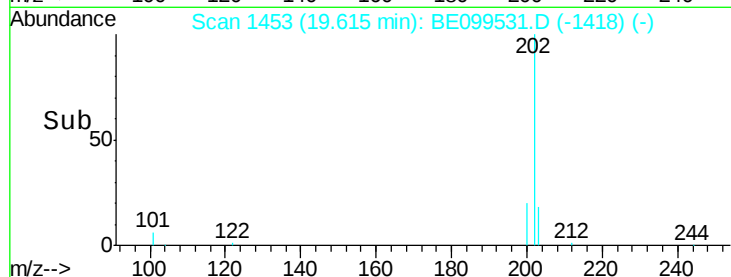
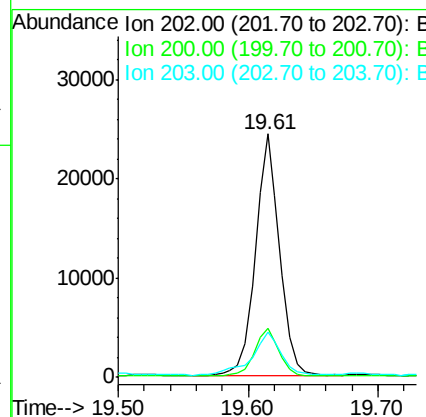
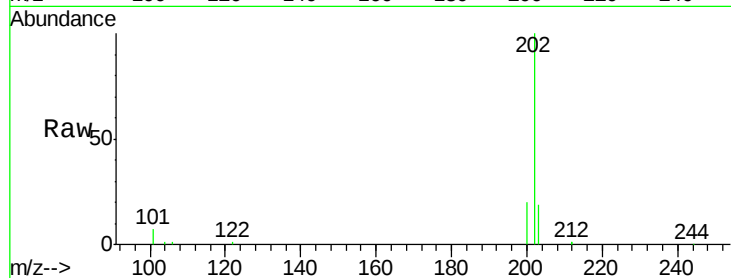




#28
Pvrene
Concen: 0.412 ng
RT: 19.61 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

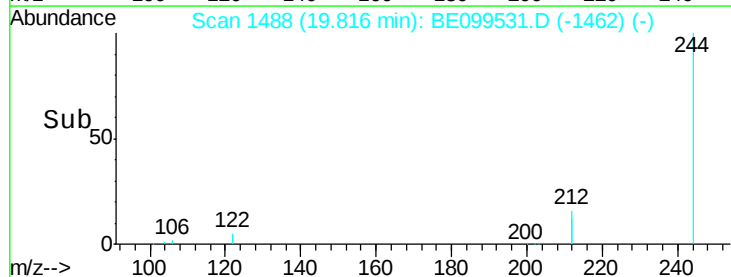
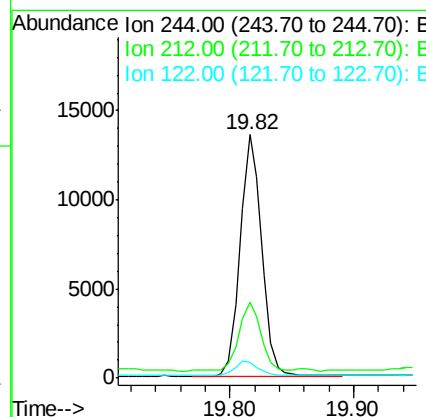
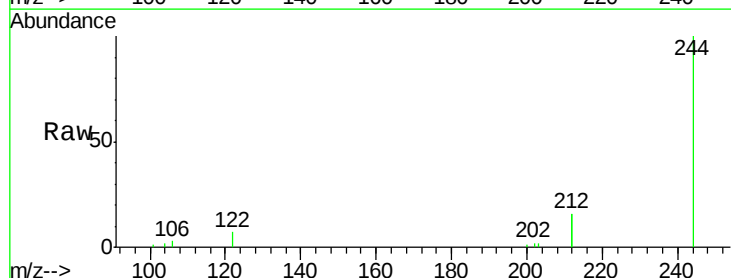
Instrument :
BNA_E
ClientSampleId :
PST-001-B193-042519

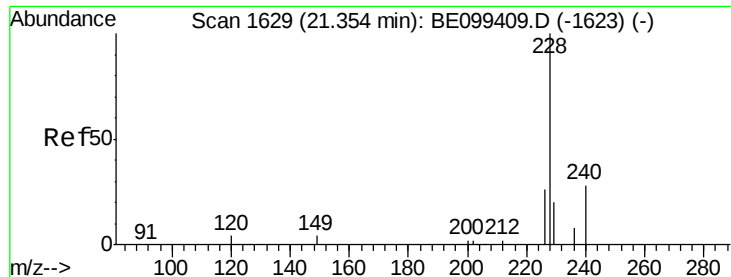
Tot Ion:202 Resp: 31557
Ion Ratio Lower Upper
202 100
200 20.1 15.7 23.5
203 21.4 13.9 20.9#



#29
Terphenyl-d14
Concen: 0.307 ng
RT: 19.82 min Scan# 1488
Delta R.T. -0.00 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

Tgt Ion:244 Resp: 16511
Ion Ratio Lower Upper
244 100
212 31.2 23.2 34.8
122 6.6 4.2 6.4#

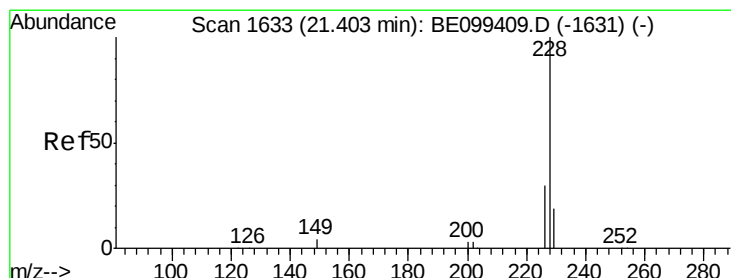
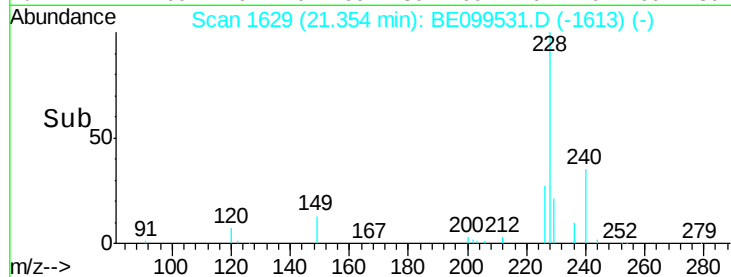
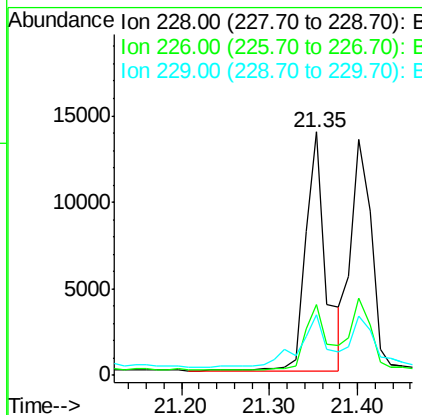
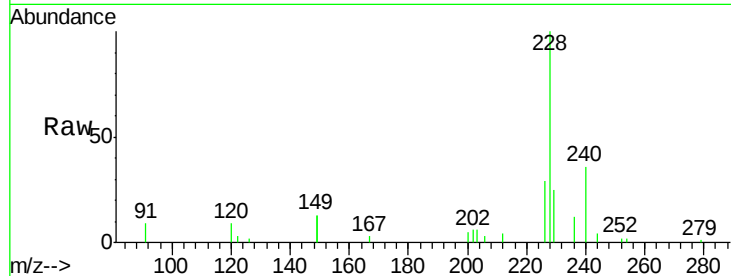




#30
Benzo(a)anthracene
Concen: 0.238 ng
RT: 21.35 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

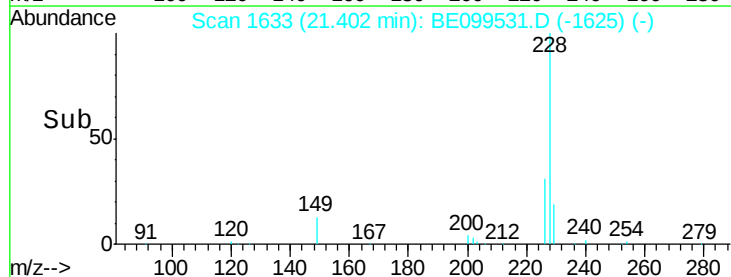
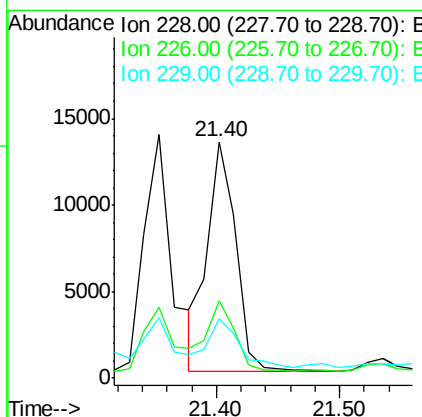
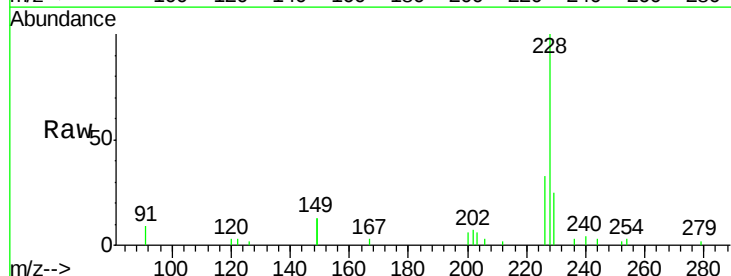
Instrument :
BNA_E
ClientSampleId :
PST-001-B193-042519

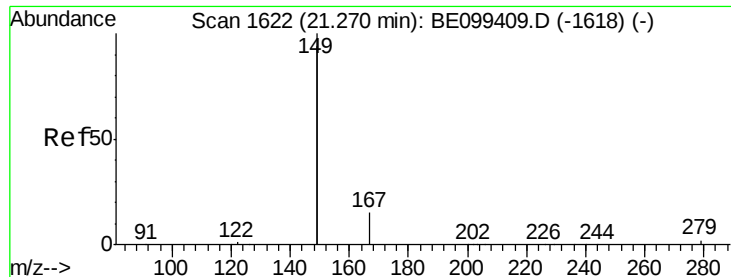
Tot Ion:228 Resp: 22296
Ion Ratio Lower Upper
228 100
226 29.0 21.0 31.6
229 24.9 16.6 25.0



#31
Chrysene
Concen: 0.233 ng
RT: 21.40 min Scan# 1633
Delta R.T. -0.00 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

Tgt Ion:228 Resp: 21331
Ion Ratio Lower Upper
228 100
226 32.9 24.0 36.0
229 25.0 15.8 23.8#





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.068 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

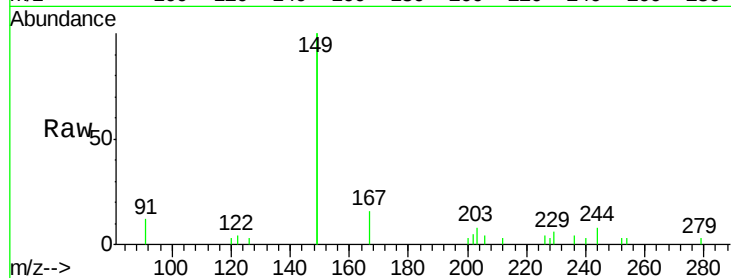
Tot Ion:149 Resp: 18462

Ion Ratio Lower Upper

149 100

167 6.8 5.8 8.6

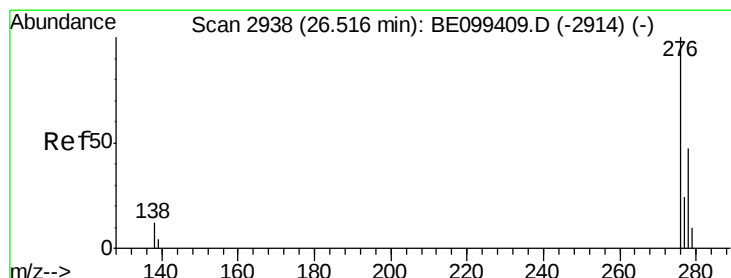
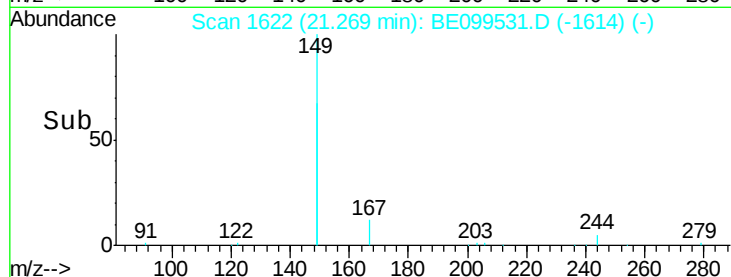
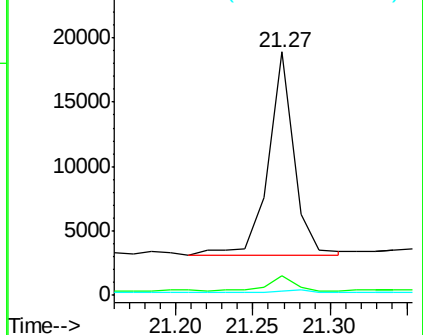
279 1.3 1.0 1.6



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: 0.156 ng

RT: 26.53 min Scan# 2942

Delta R.T. 0.01 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

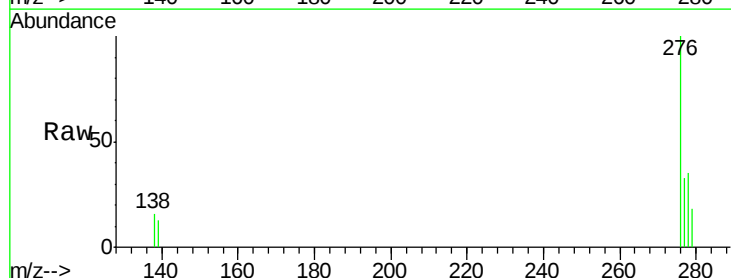
Tgt Ion:276 Resp: 16946

Ion Ratio Lower Upper

276 100

138 10.9 10.2 15.2

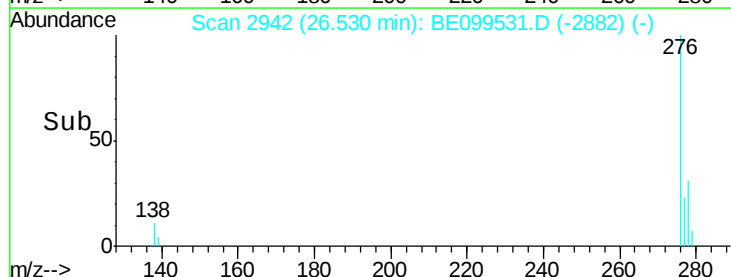
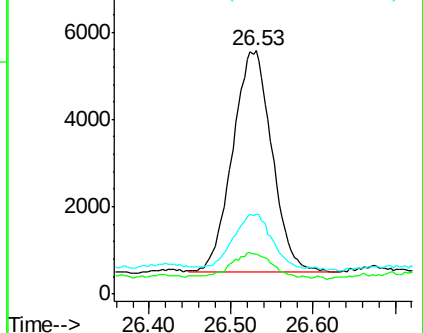
277 23.0 19.2 28.8

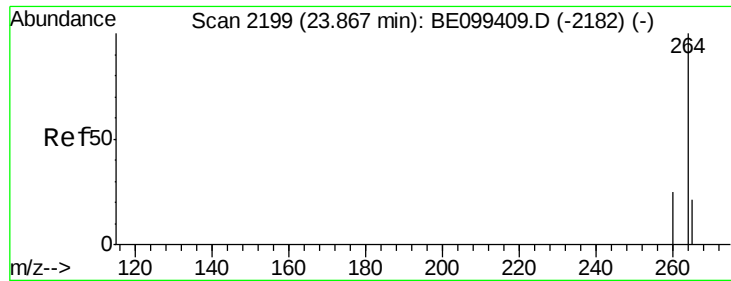


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

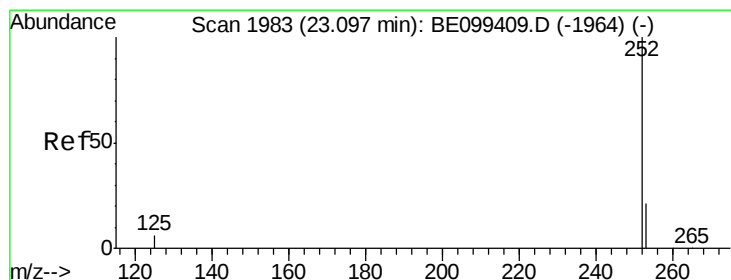
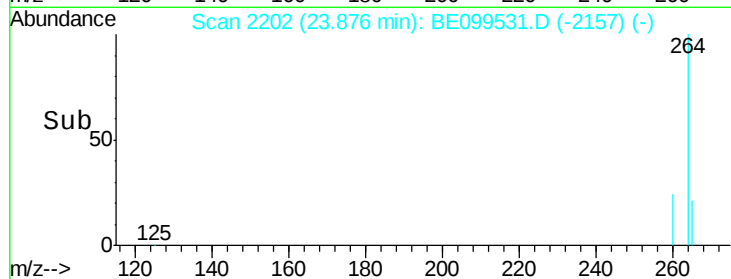
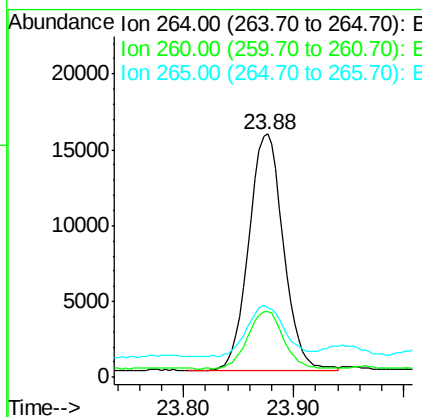
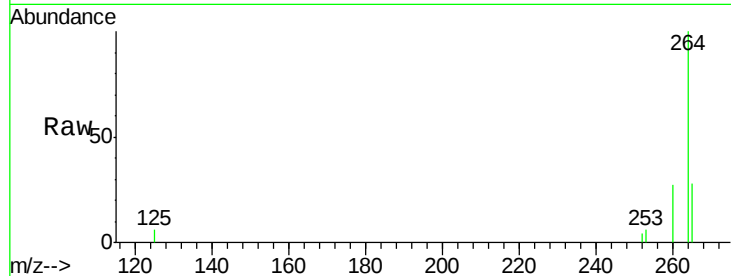




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.88 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

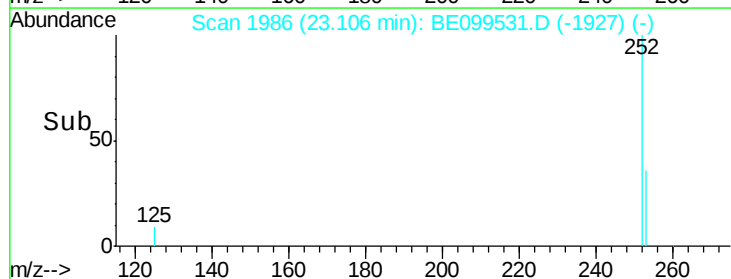
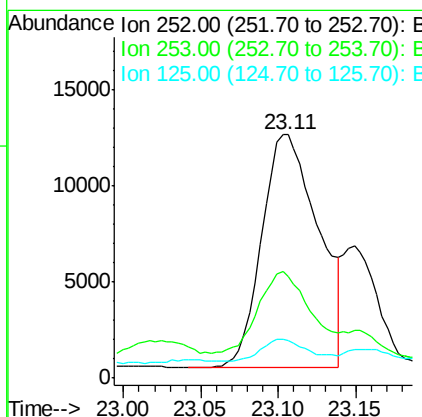
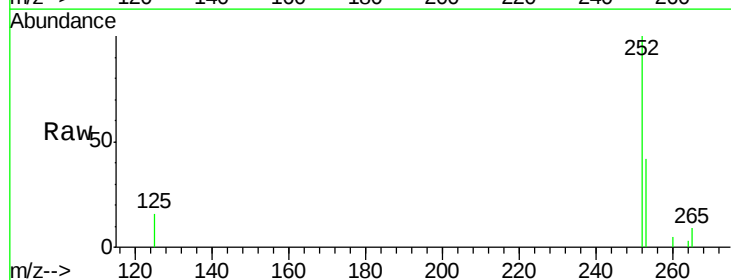
Instrument :
BNA_E
ClientSampleId :
PST-001-B193-042519

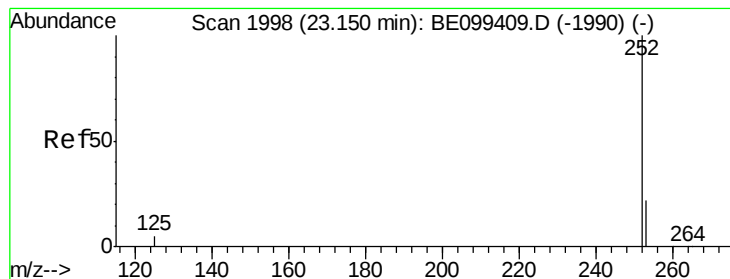
Tot Ion:264 Resp: 33867
Ion Ratio Lower Upper
264 100
260 27.2 20.2 30.2
265 28.4 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.315 ng
RT: 23.11 min Scan# 1986
Delta R.T. 0.01 min
Lab File: BE099531.D
Acq: 3 May 2019 15:55

Tgt Ion:252 Resp: 30755
Ion Ratio Lower Upper
252 100
253 41.5 18.1 27.1#
125 15.6 5.6 8.4#





#36

Benzo(k)fluoranthene

Concen: 0.327 ng

RT: 23.11 min Scan# 1986

Delta R.T. -0.04 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

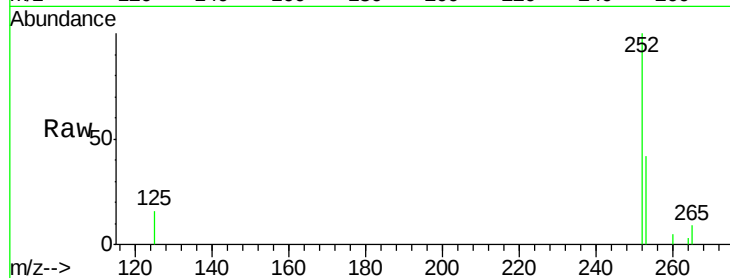
Tot Ion:252 Resp: 30755

Ion Ratio Lower Upper

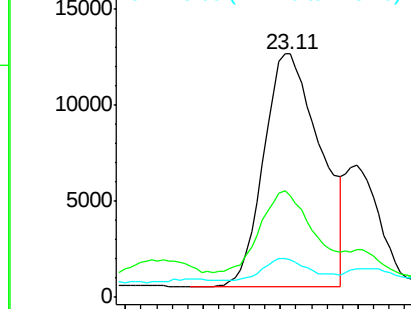
252 100

253 41.5 18.4 27.6#

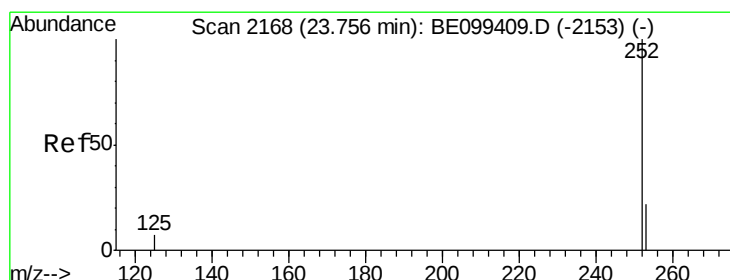
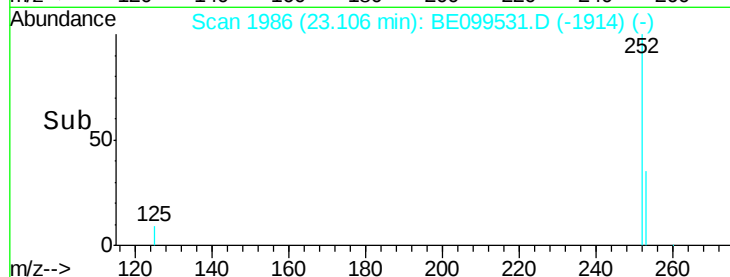
125 15.6 5.0 7.4#



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



Time-->



#37

Benzo(a)pyrene

Concen: 0.216 ng

RT: 23.76 min Scan# 2170

Delta R.T. 0.01 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

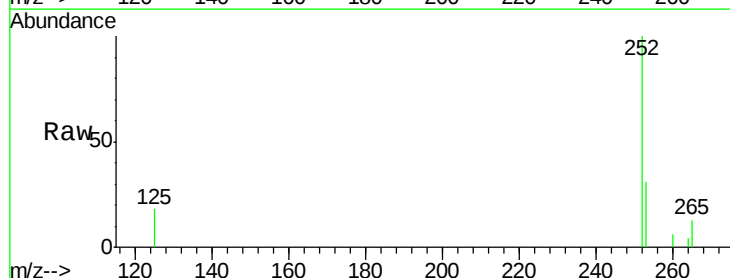
Tgt Ion:252 Resp: 19975

Ion Ratio Lower Upper

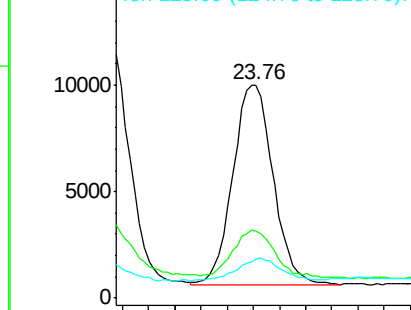
252 100

253 31.5 18.9 28.3#

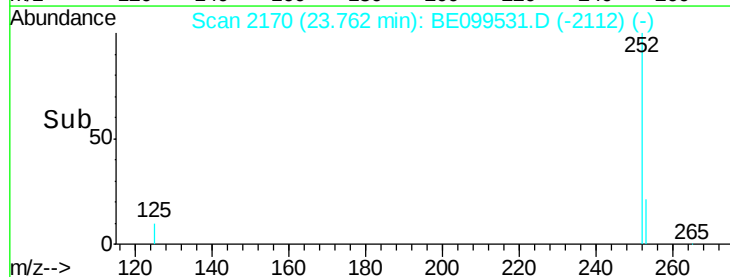
125 18.5 6.7 10.1#

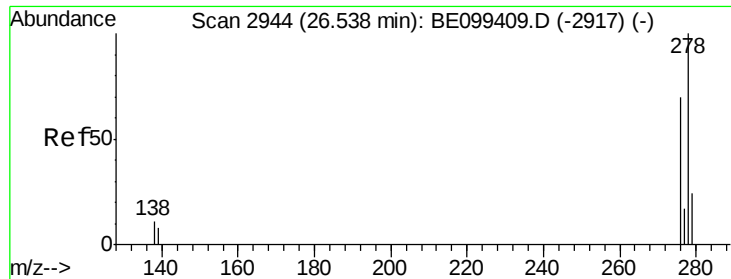


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#38

Dibenzo(a,h)anthracene

Concen: 0.070 ng

RT: 26.54 min Scan# 2944

Delta R.T. -0.00 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B193-042519

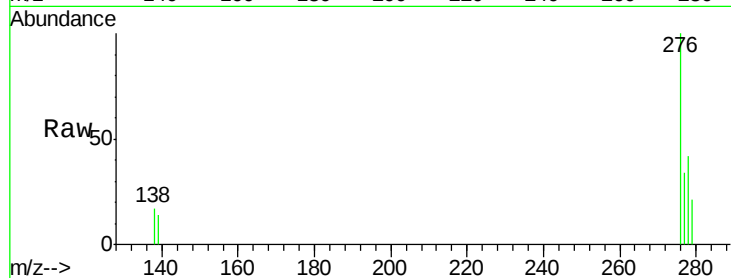
Tot Ion:278 Resp: 6586

Ion Ratio Lower Upper

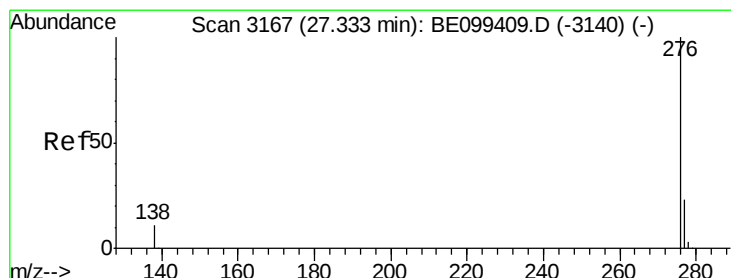
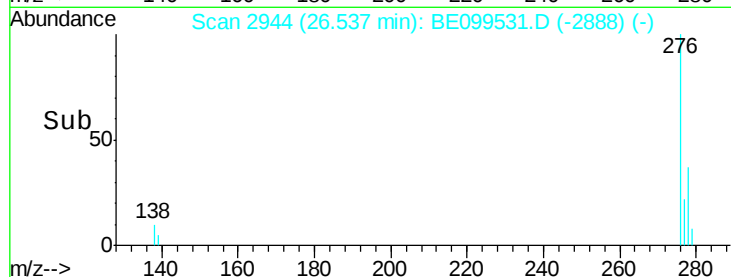
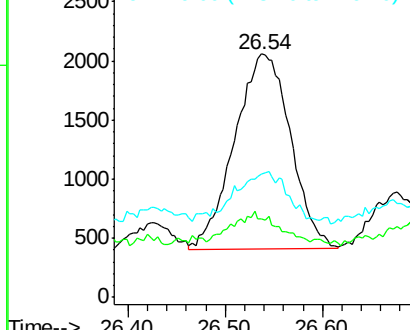
278 100

139 32.5 7.7 11.5#

279 50.5 20.2 30.2#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.226 ng

RT: 27.35 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BE099531.D

Acq: 3 May 2019 15:55

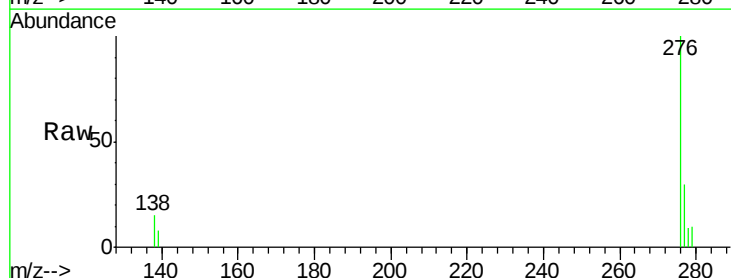
Tgt Ion:276 Resp: 21340

Ion Ratio Lower Upper

276 100

277 30.3 19.5 29.3#

138 15.3 9.6 14.4#



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

