

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099507.D
 Acq On : 2 May 2019 23:31
 Operator : JU/SJ
 Sample : K2589-17
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B185-042419

Quant Time: May 03 02:11:59 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	7.80	152	2179	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	8052	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6266	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19756	0.40	ng	0.00
27) Chrysene-d12	21.37	240	26129	0.40	ng	0.00
34) Perylene-d12	23.87	264	30012	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	1354	0.22	ng	0.00
5) Phenol-d6	6.96	99	1919	0.24	ng	-0.01
8) Nitrobenzene-d5	8.96	82	1550	0.21	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	2971	0.20	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	933	0.24	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	4534	0.19	ng	-0.01
25) Fluoranthene-d10	19.22	212	51679	0.19	ng	0.00
29) Terphenyl-d14	19.82	244	10355	0.22	ng	0.00

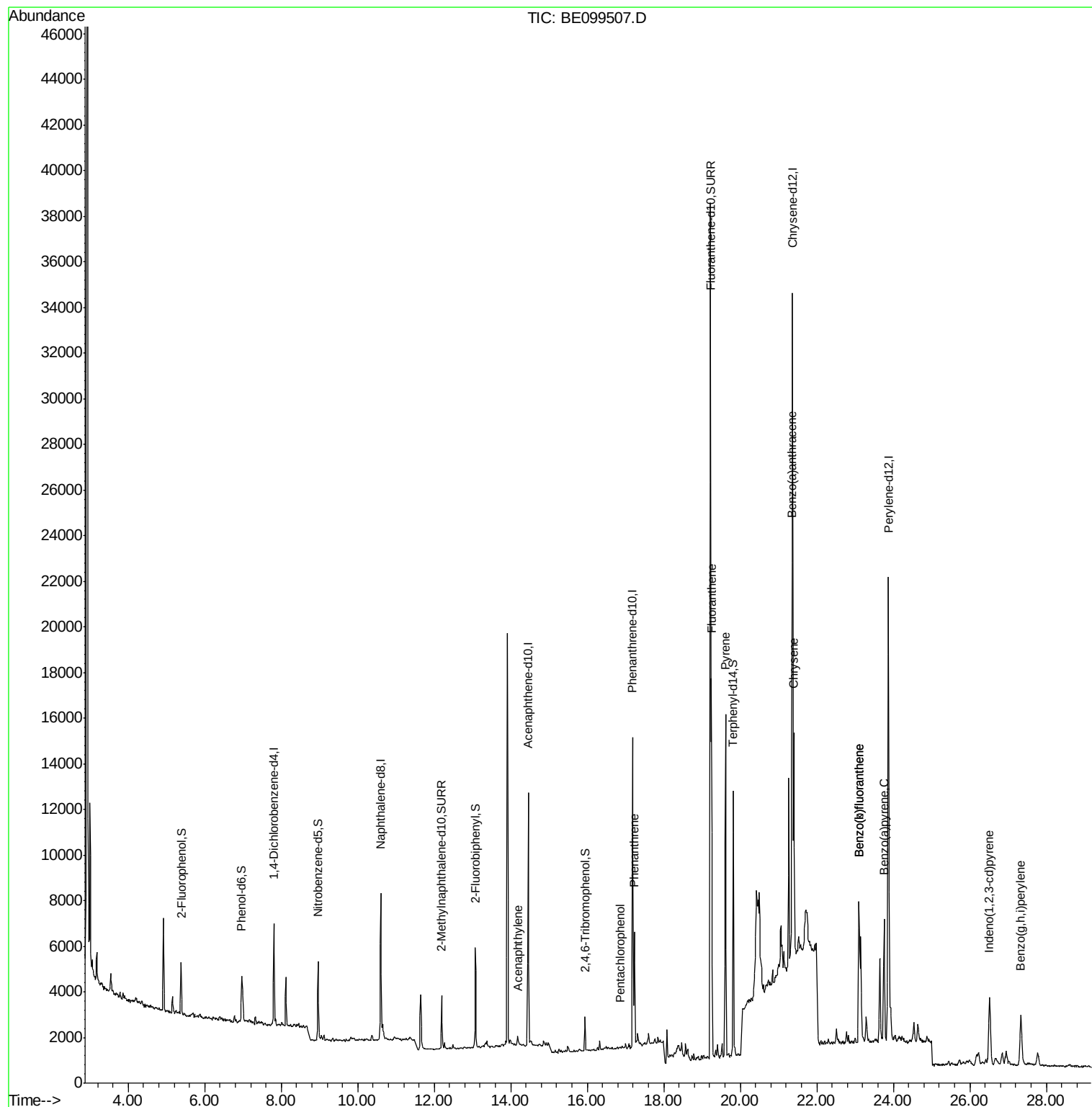
Target Compounds						Qvalue
16) Acenaphthylene	14.18	152	621	0.020	ng	# 87
22) Pentachlorophenol	16.85	266	42	0.222	ng	# 64
23) Phenanthrene	17.23	178	5477	0.107	ng	97
26) Fluoranthene	19.25	202	14269	0.187	ng	99
28) Pyrene	19.62	202	14770	0.217	ng	97
30) Benzo(a)anthracene	21.35	228	8114	0.097	ng	# 91
31) Chrysene	21.40	228	8661	0.106	ng	95
33) Indeno(1,2,3-cd)pyrene	26.51	276	5700	0.059	ng	100
35) Benzo(b)fluoranthene	23.10	252	11884	0.137	ng	# 78
36) Benzo(k)fluoranthene	23.10	252	11884	0.142	ng	# 79
37) Benzo(a)pyrene	23.75	252	8123	0.099	ng	# 80
39) Benzo(a,h,i)perylene	27.34	276	5726	0.068	ng	# 89

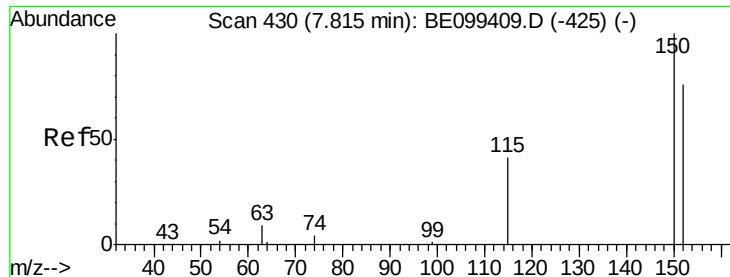
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

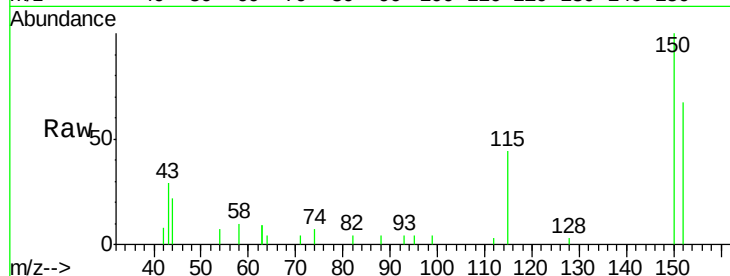
Tot Ion:152 Resp: 2179

Ion Ratio Lower Upper

152 100

150 149.0 104.8 157.2

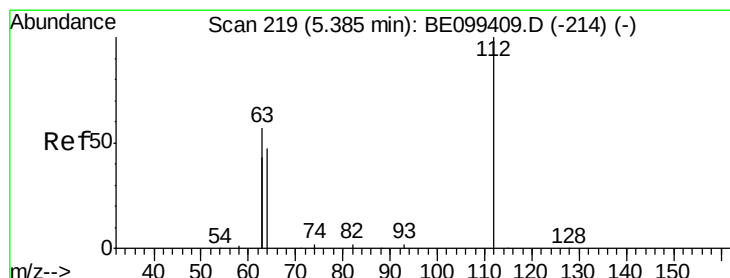
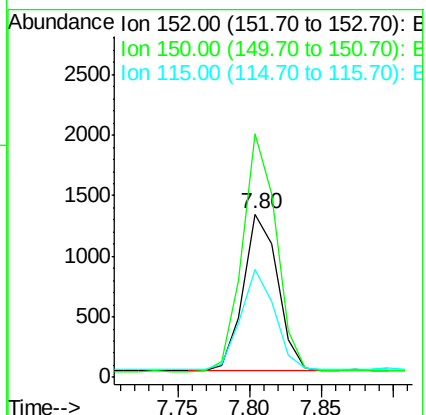
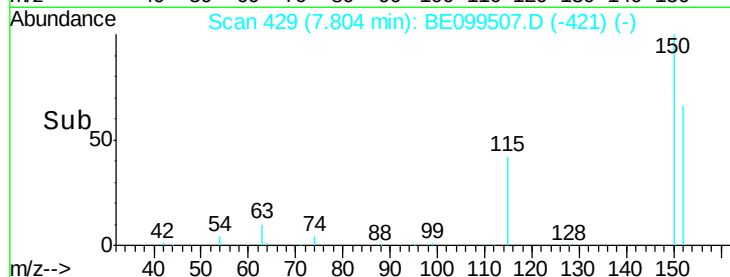
115 66.2 46.6 69.8



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



#4

2-Fluorophenol

Concen: 0.225 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

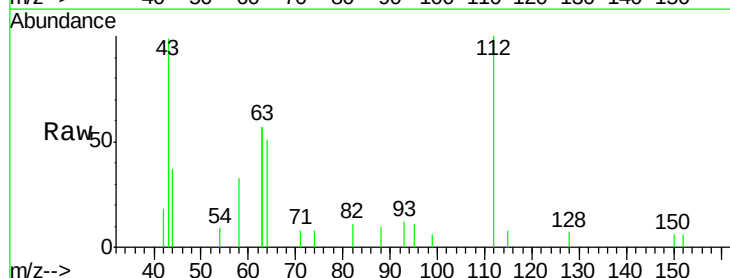
Tgt Ion:112 Resp: 1354

Ion Ratio Lower Upper

112 100

64 57.3 47.4 71.0

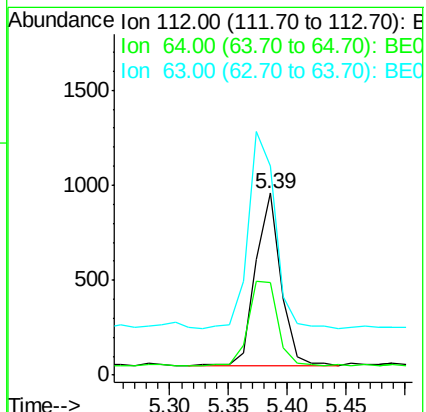
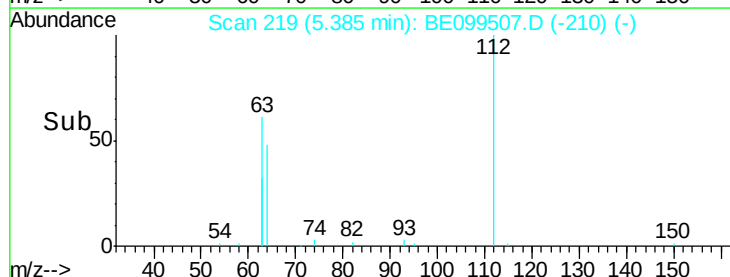
63 124.2 104.3 156.5

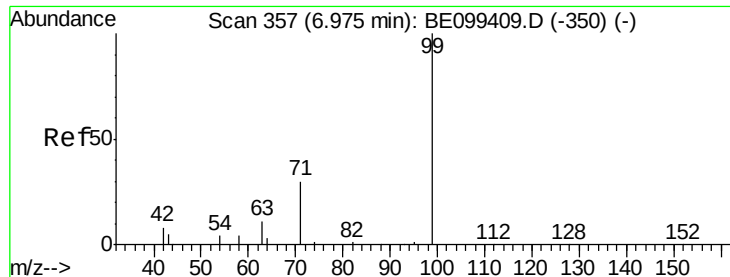


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.239 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

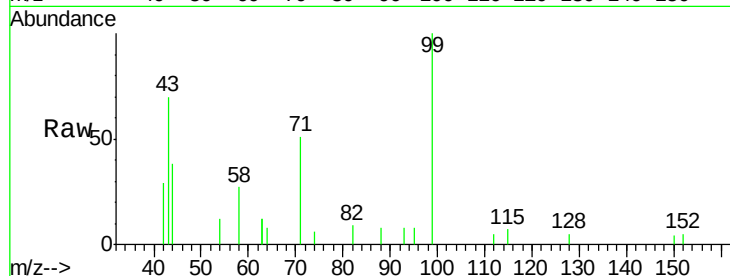
Tot Ion: 99 Resp: 1919

Ion Ratio Lower Upper

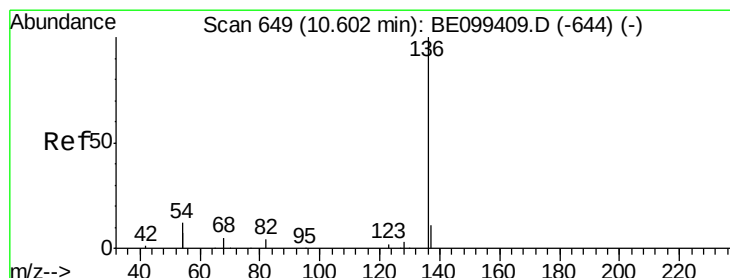
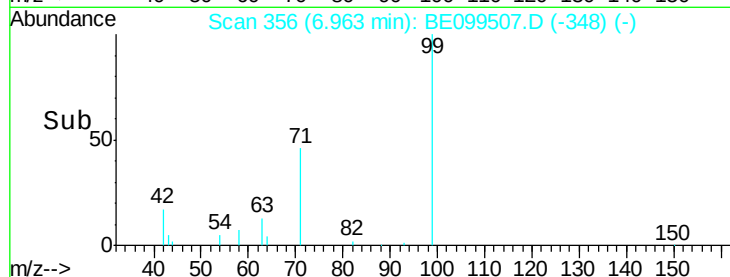
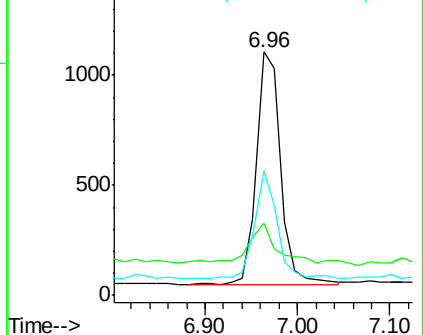
99 100

42 24.9 14.9 22.3#

71 43.5 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: BE099507.D

Acq: 2 May 2019 23:31

Tgt Ion: 136 Resp: 8052

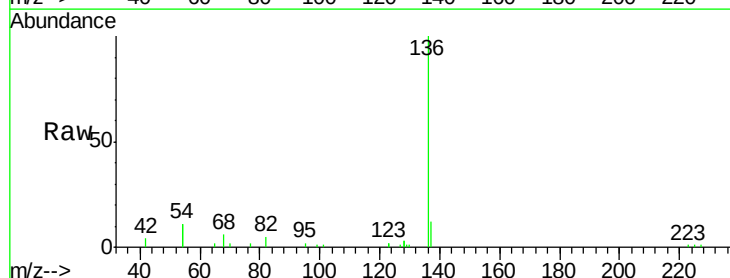
Ion Ratio Lower Upper

136 100

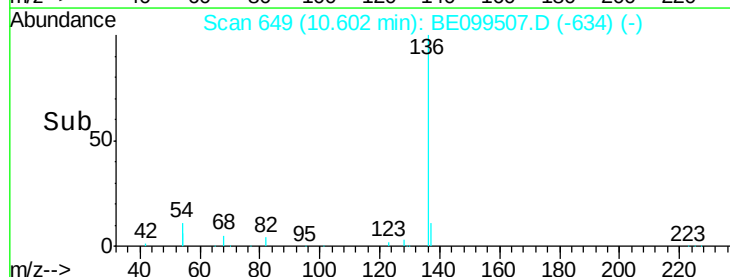
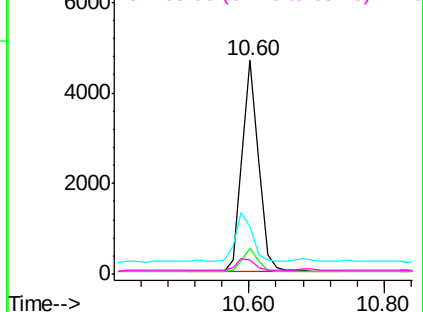
137 12.0 9.8 14.8

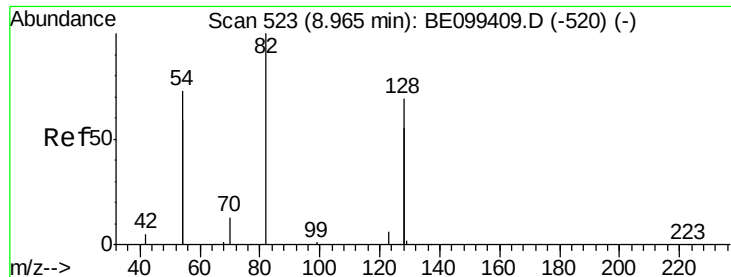
54 22.3 18.5 27.7

68 6.4 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: 0.205 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

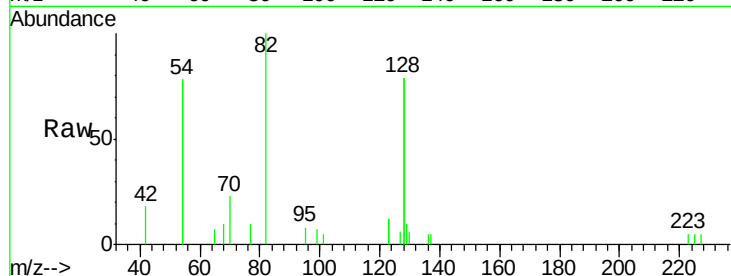
Tot Ion: 82 Resp: 1550

Ion Ratio Lower Upper

82 100

128 157.3 107.0 160.4

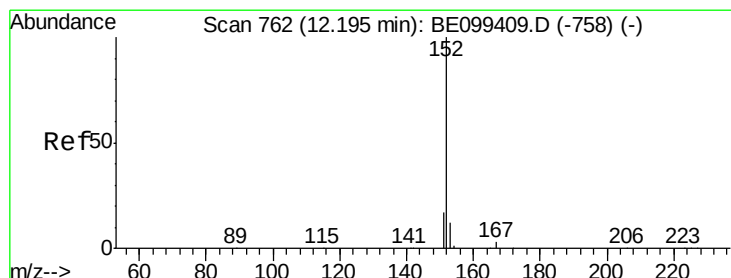
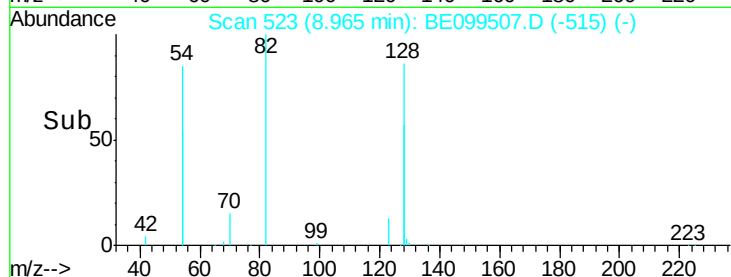
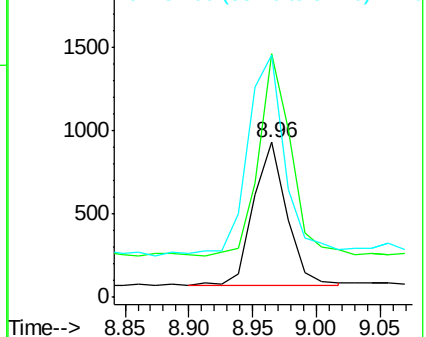
54 156.4 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.205 ng

RT: 12.20 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099507.D

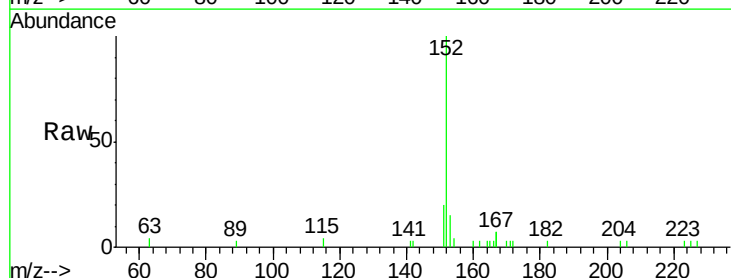
Acq: 2 May 2019 23:31

Tgt Ion: 152 Resp: 2971

Ion Ratio Lower Upper

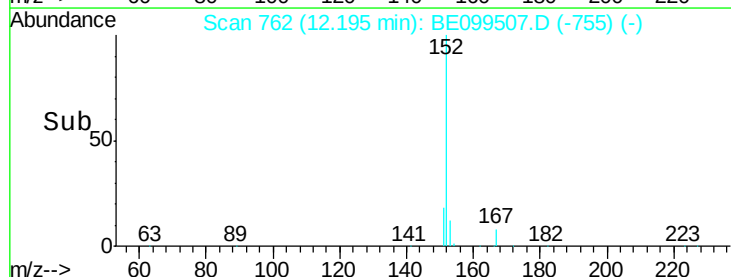
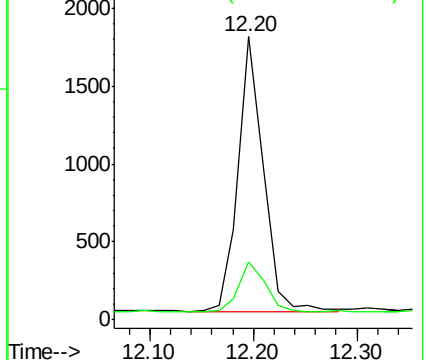
152 100

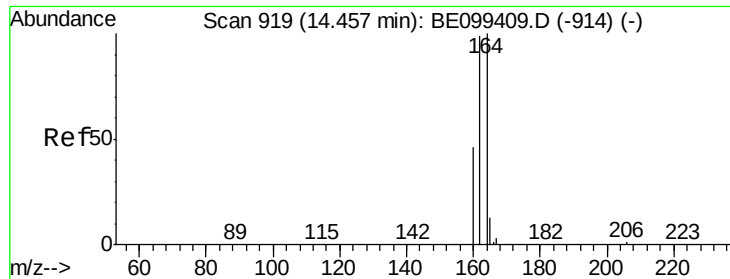
151 19.8 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0

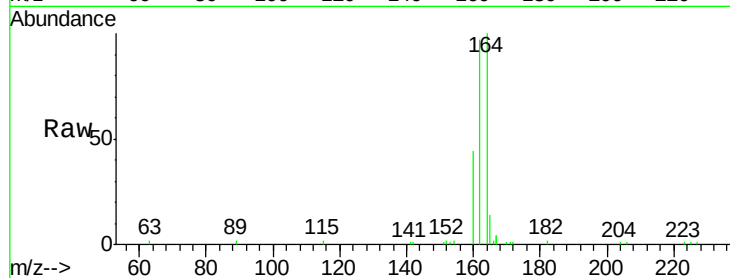




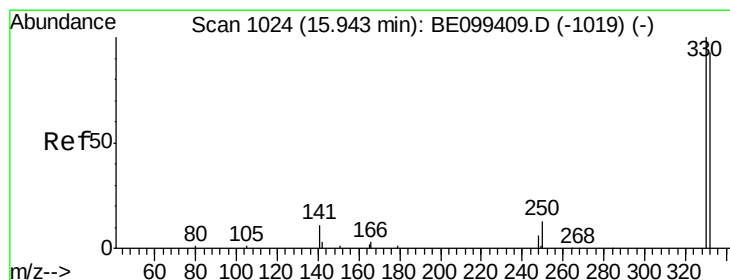
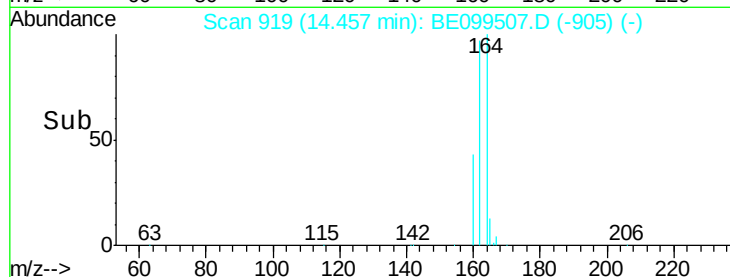
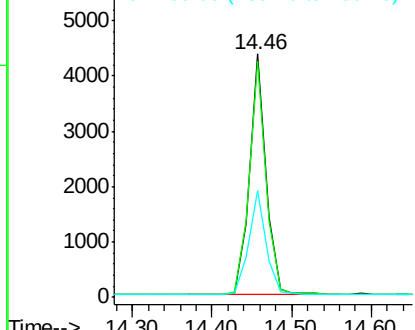
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099507.D
Acq: 2 May 2019 23:31

Instrument :
BNA_E
ClientSampleId :
PST-001-B185-042419

Tot Ion:164 Resp: 6266
Ion Ratio Lower Upper
164 100
162 97.0 79.0 118.4
160 43.6 37.0 55.4

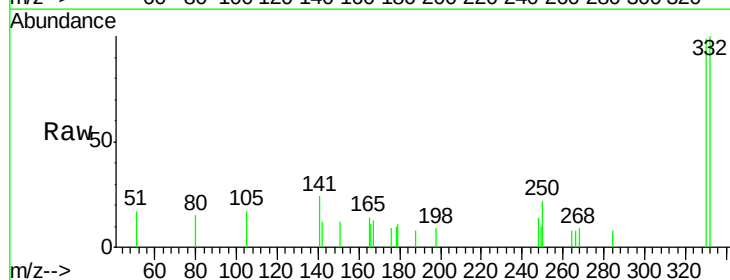


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

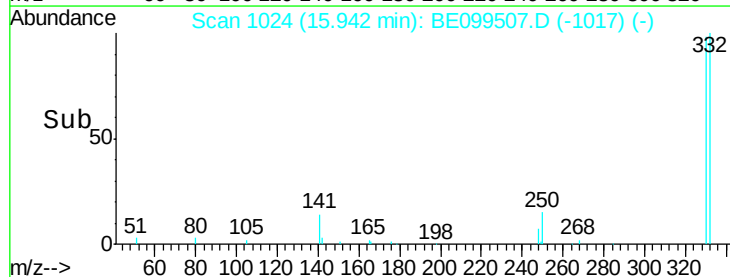
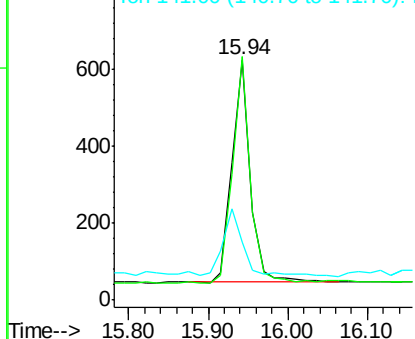


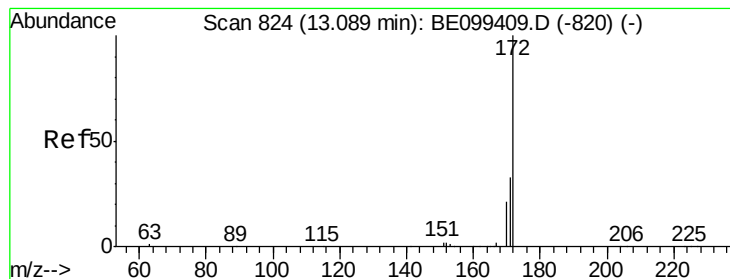
#14
2,4,6-Tribromophenol
Concen: 0.236 ng
RT: 15.94 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BE099507.D
Acq: 2 May 2019 23:31

Tgt Ion:330 Resp: 933
Ion Ratio Lower Upper
330 100
332 97.6 71.5 107.3
141 34.9 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: 0.190 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

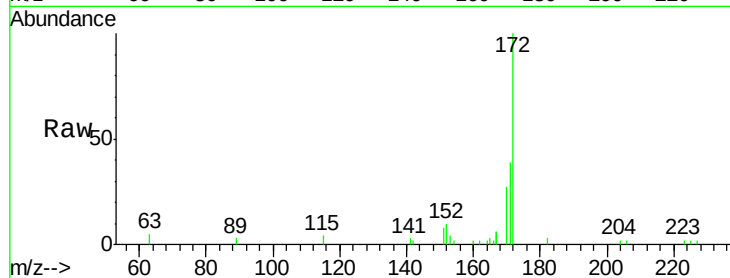
Tot Ion:172 Resp: 4534

Ion Ratio Lower Upper

172 100

171 39.0 26.6 39.8

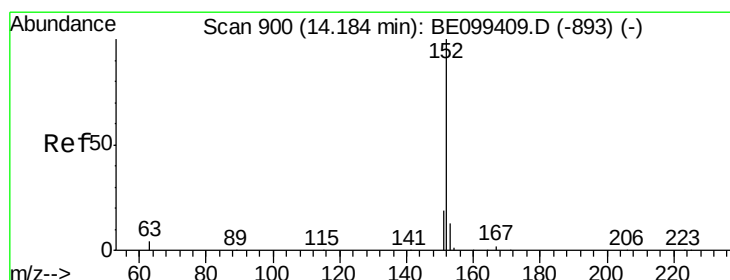
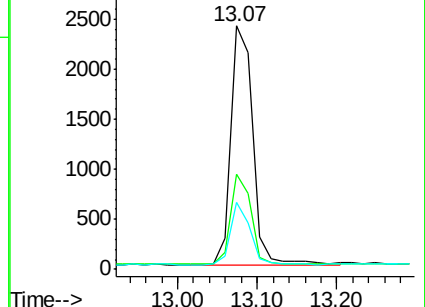
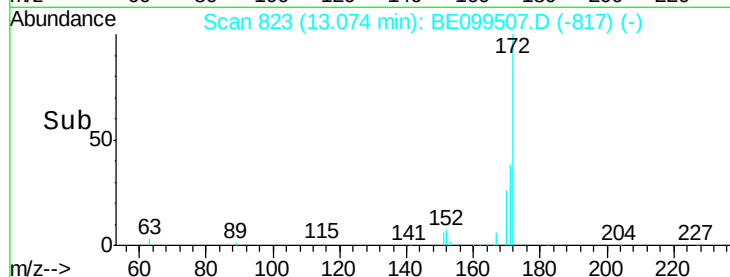
170 27.5 17.0 25.6#



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: 0.020 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

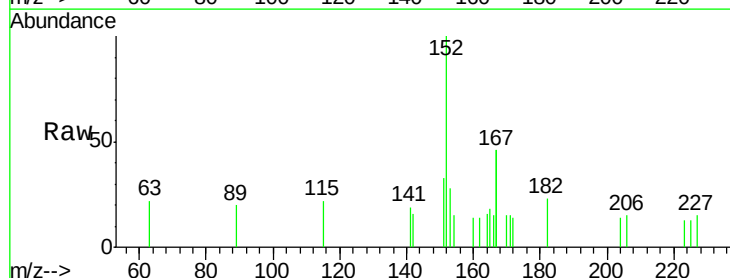
Tgt Ion:152 Resp: 621

Ion Ratio Lower Upper

152 100

151 26.6 15.4 23.2#

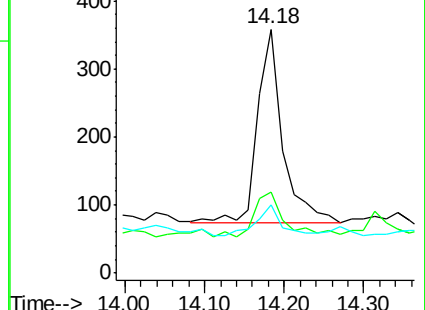
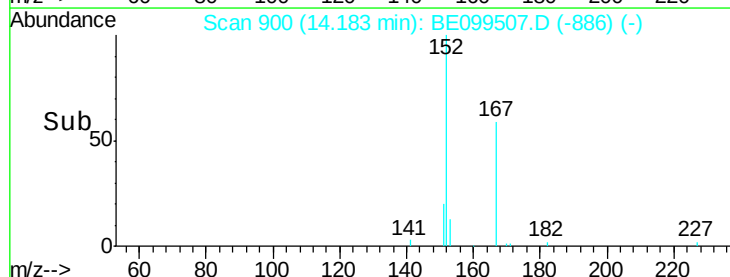
153 15.8 9.8 14.6#

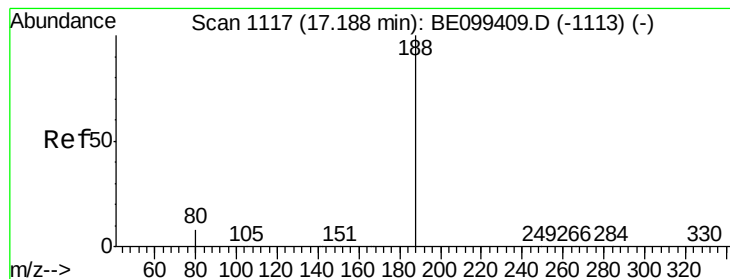


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

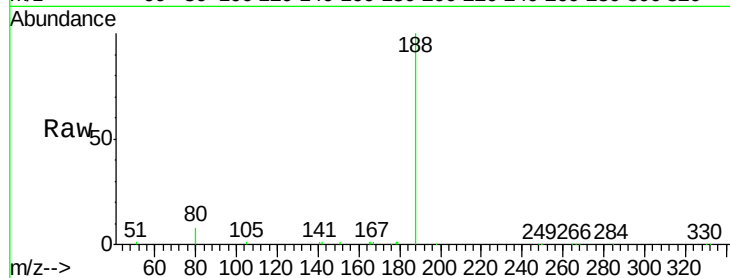
Tot Ion:188 Resp: 19756

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

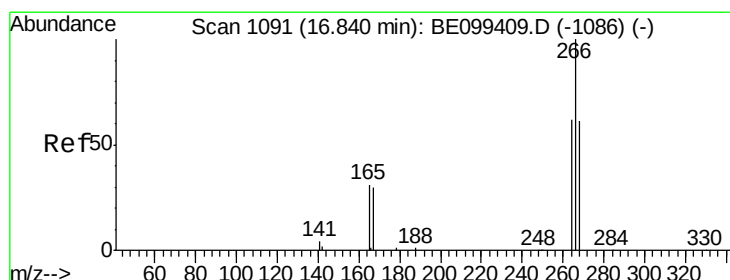
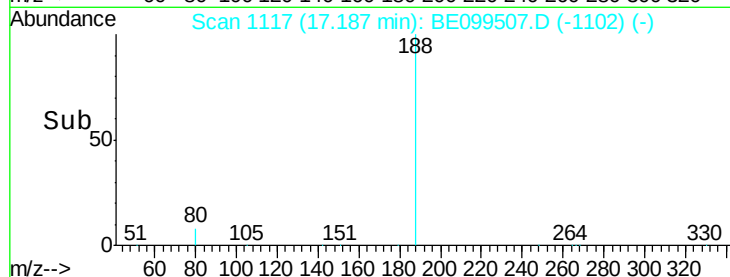
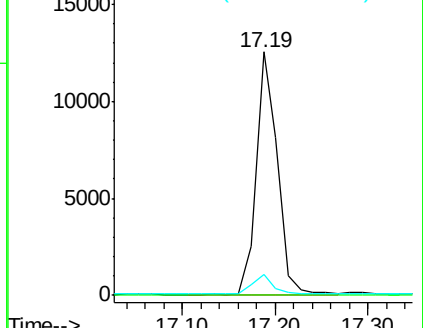
80 8.5 6.7 10.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.222 ng

RT: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

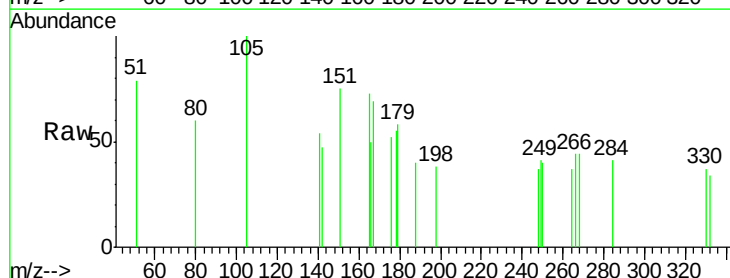
Tgt Ion:266 Resp: 42

Ion Ratio Lower Upper

266 100

264 82.8 50.8 76.2#

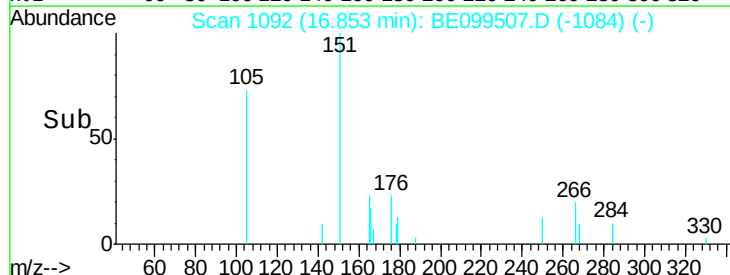
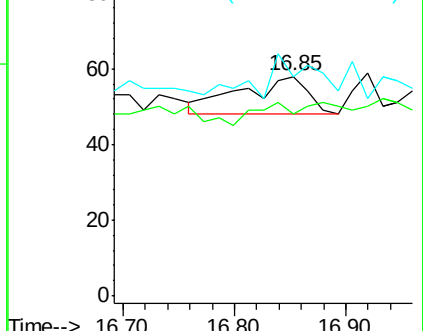
268 100.0 50.5 75.7#

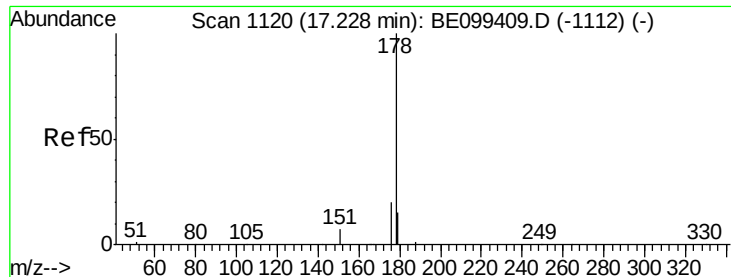


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.107 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

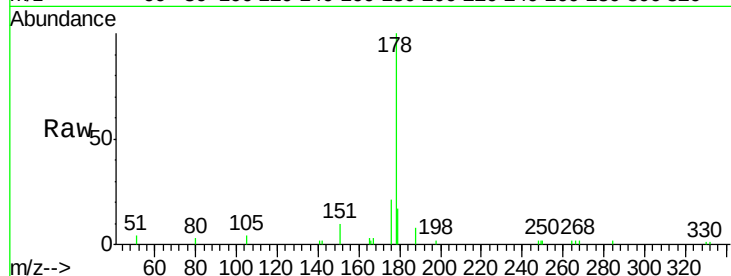
BNA_E

ClientSampleId :

PST-001-B185-042419

Tot Ion:178 Resp: 5477

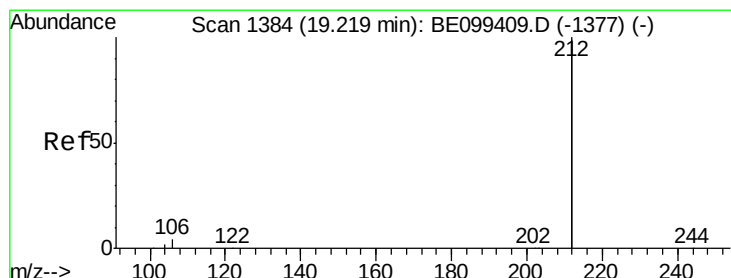
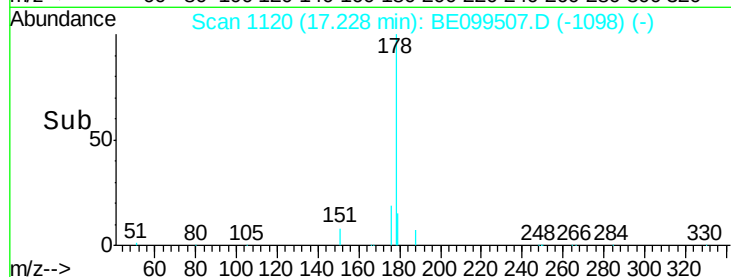
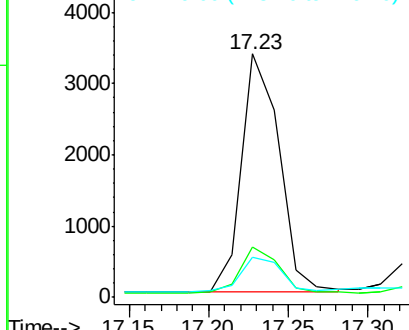
Ion	Ratio	Lower	Upper
178	100		
176	20.7	15.6	23.4
179	16.3	12.0	18.0



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: 0.194 ng

RT: 19.22 min Scan# 1384

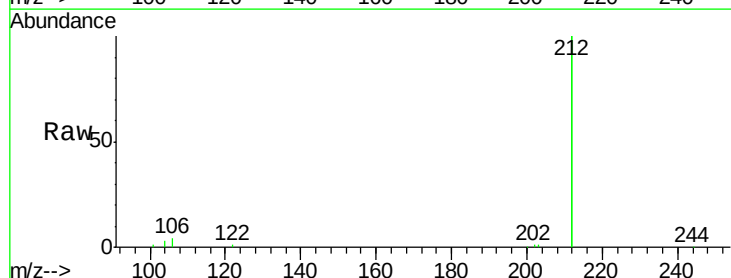
Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Tgt Ion:212 Resp: 51679

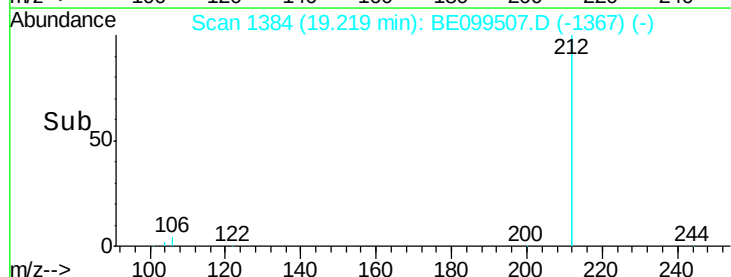
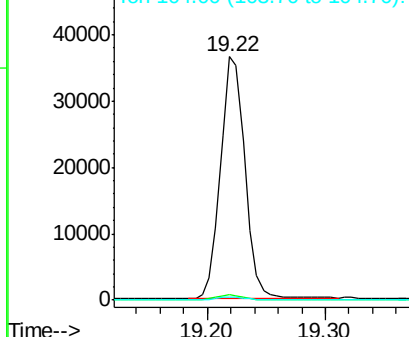
Ion	Ratio	Lower	Upper
212	100		
106	1.8	1.5	2.3
104	1.1	0.9	1.3

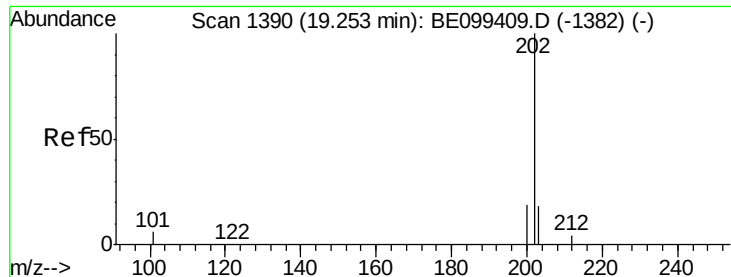


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.187 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

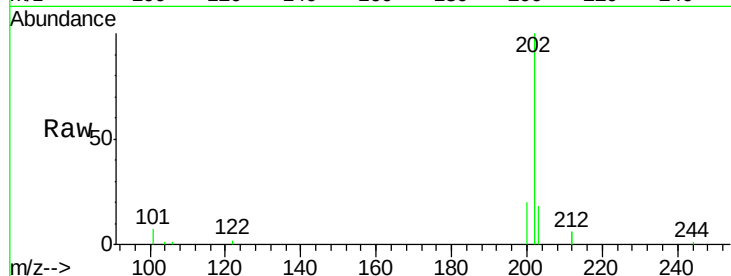
Tot Ion:202 Resp: 14269

Ion Ratio Lower Upper

202 100

101 7.0 5.4 8.0

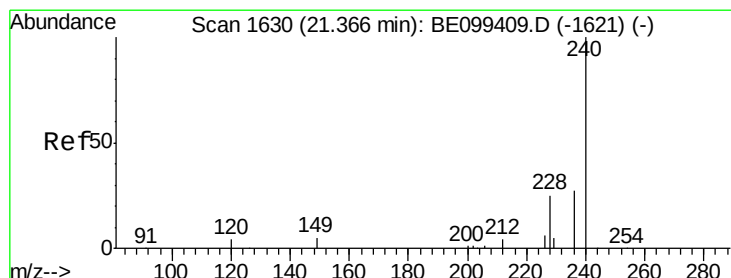
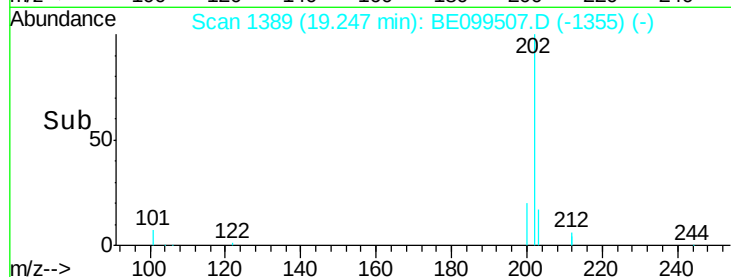
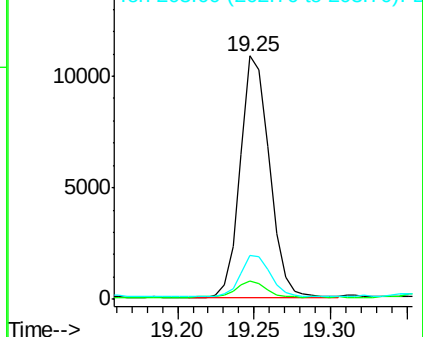
203 17.8 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

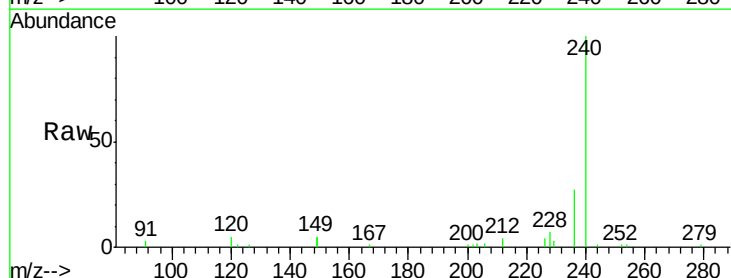
Tgt Ion:240 Resp: 26129

Ion Ratio Lower Upper

240 100

120 4.8 4.0 6.0

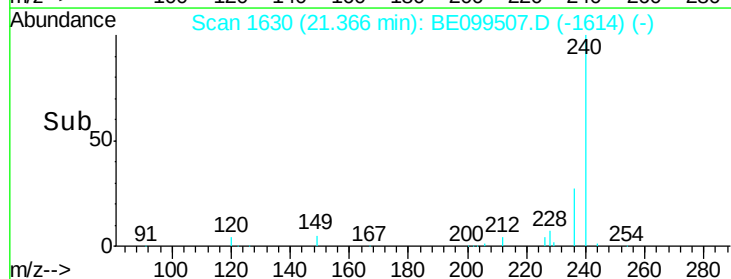
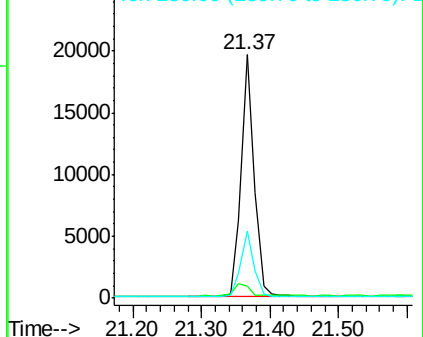
236 27.4 22.0 33.0

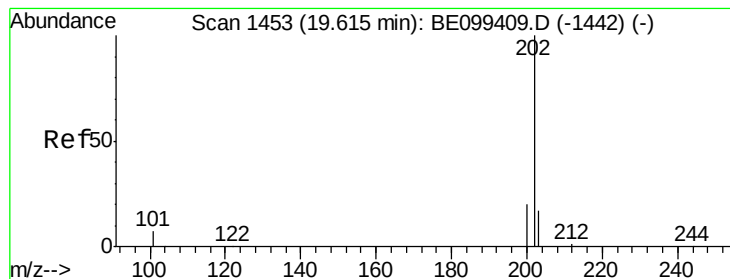


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.217 ng

RT: 19.62 min Scan# 1453

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

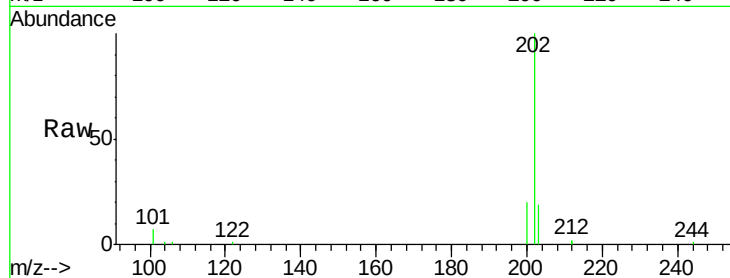
Tot Ion:202 Resp: 14770

Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

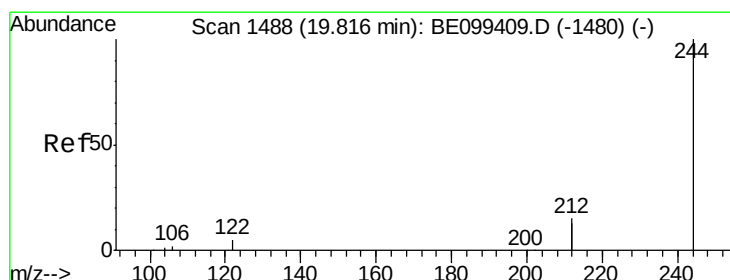
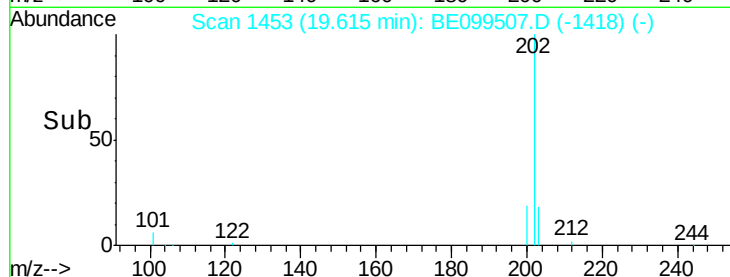
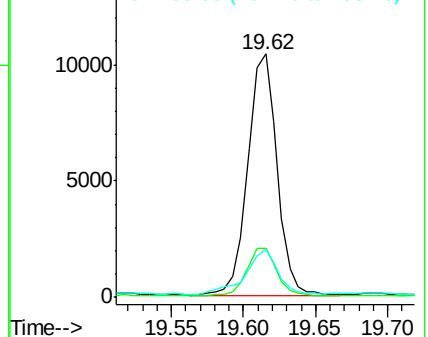
203 19.7 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.216 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

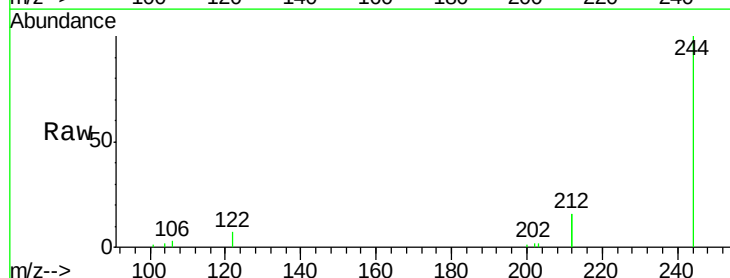
Tgt Ion:244 Resp: 10355

Ion Ratio Lower Upper

244 100

212 31.2 23.2 34.8

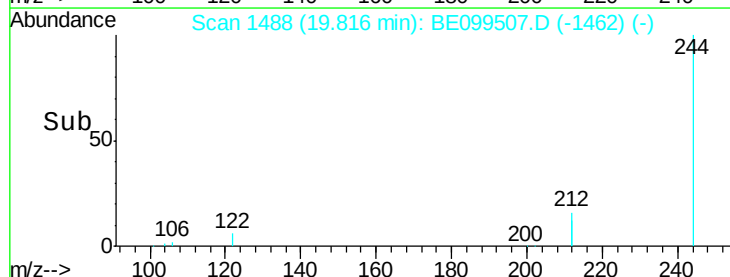
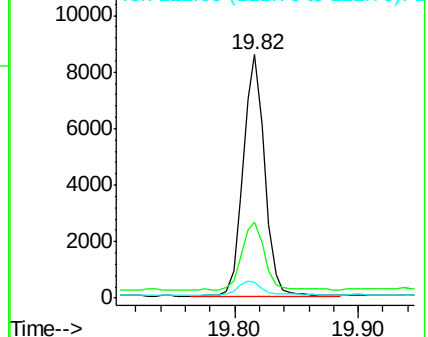
122 6.6 4.2 6.4#

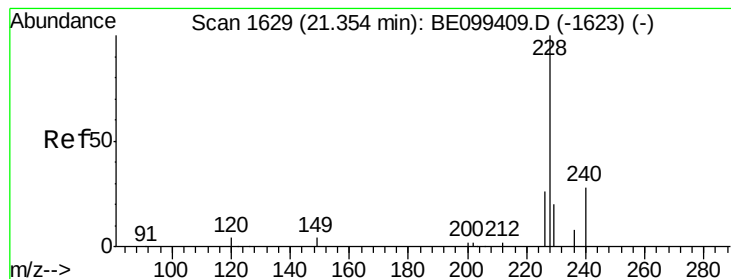


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.097 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

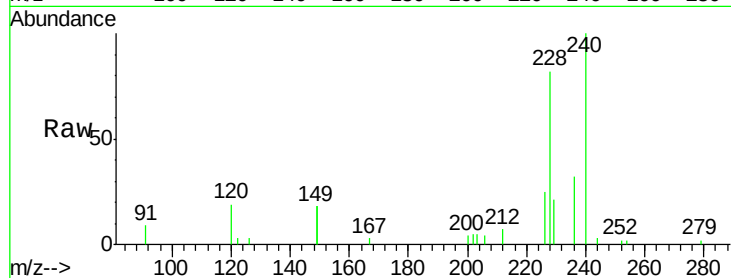
Tot Ion:228 Resp: 8114

Ion Ratio Lower Upper

228 100

226 30.6 21.0 31.6

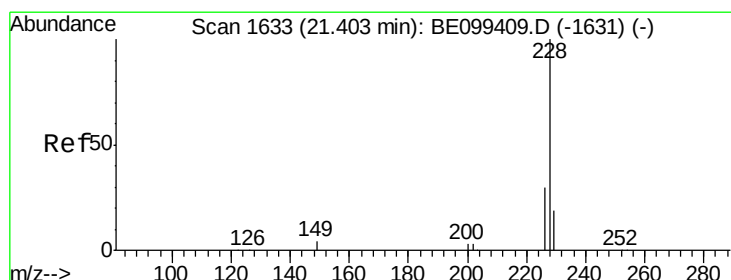
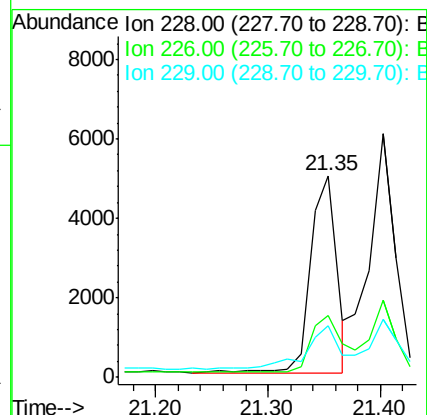
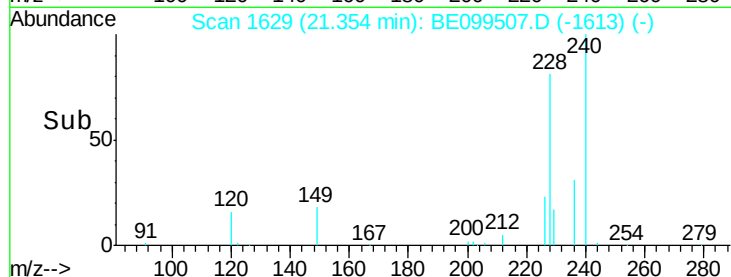
229 25.4 16.6 25.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.106 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

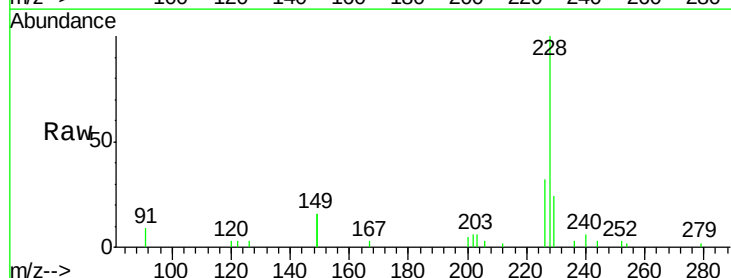
Tgt Ion:228 Resp: 8661

Ion Ratio Lower Upper

228 100

226 31.6 24.0 36.0

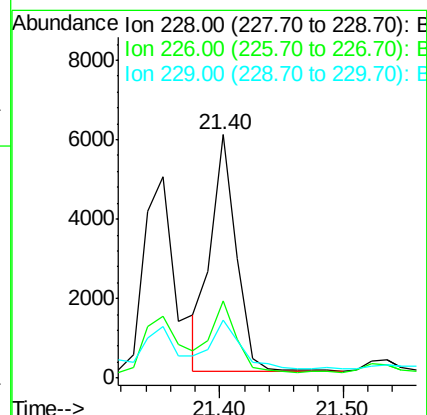
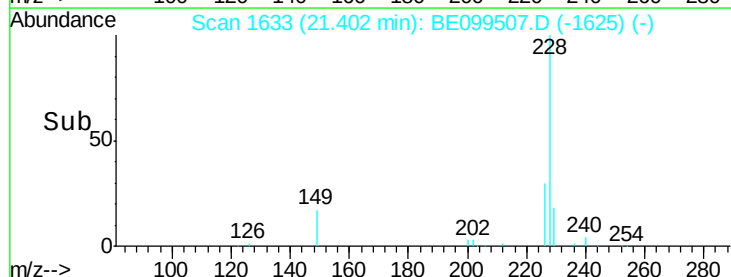
229 23.6 15.8 23.8

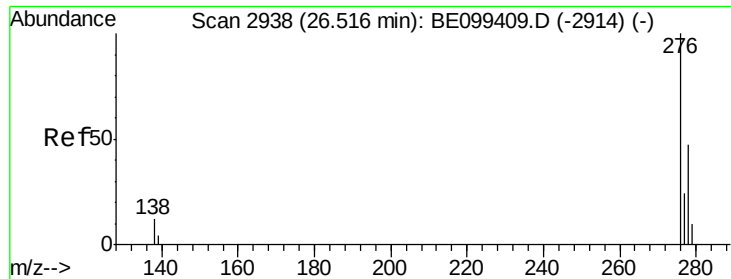


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.059 ng

RT: 26.51 min Scan# 2937

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

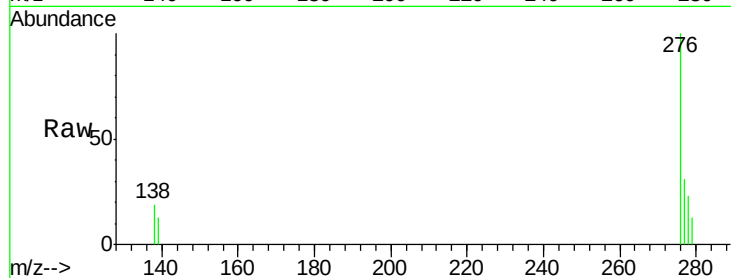
Tot Ion:276 Resp: 5700

Ion Ratio Lower Upper

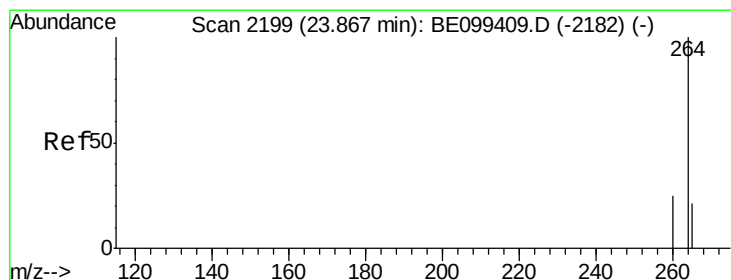
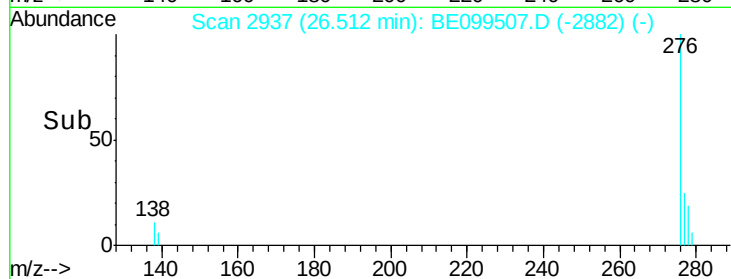
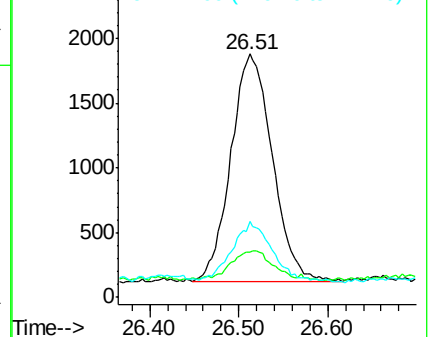
276 100

138 12.8 10.2 15.2

277 24.2 19.2 28.8



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.87 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

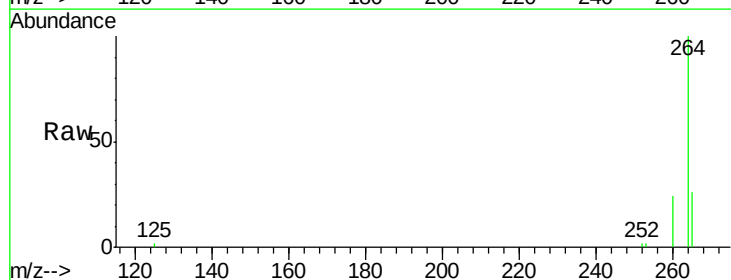
Tgt Ion:264 Resp: 30012

Ion Ratio Lower Upper

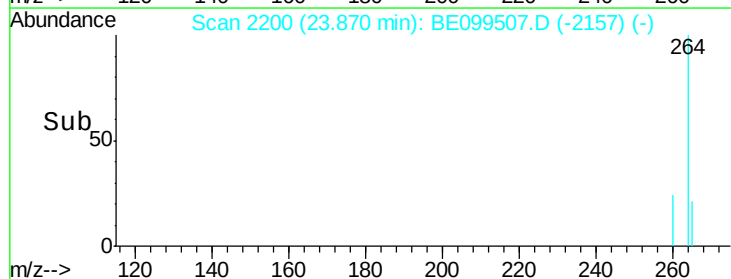
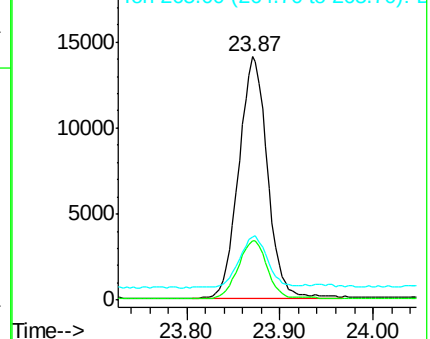
264 100

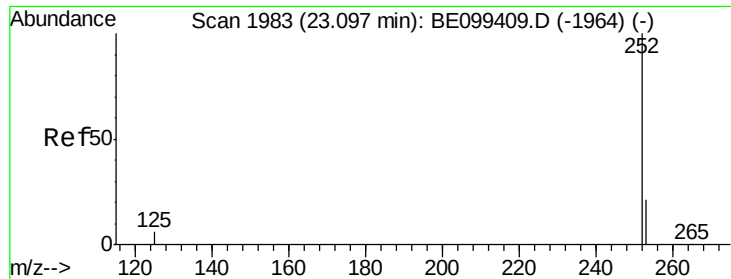
260 24.3 20.2 30.2

265 26.0 21.3 31.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.137 ng

RT: 23.10 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

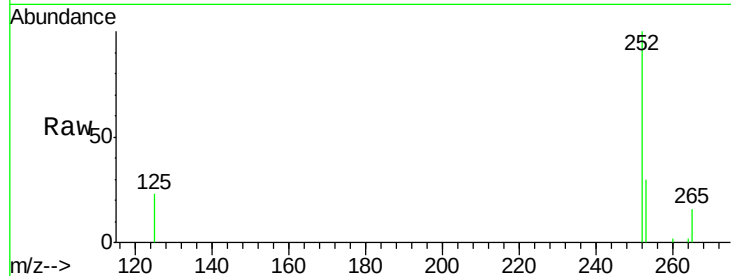
Tot Ion:252 Resp: 11884

Ion Ratio Lower Upper

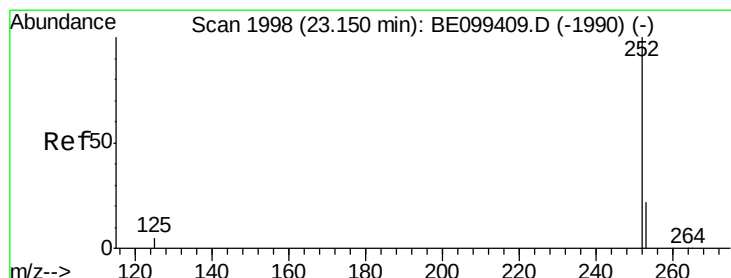
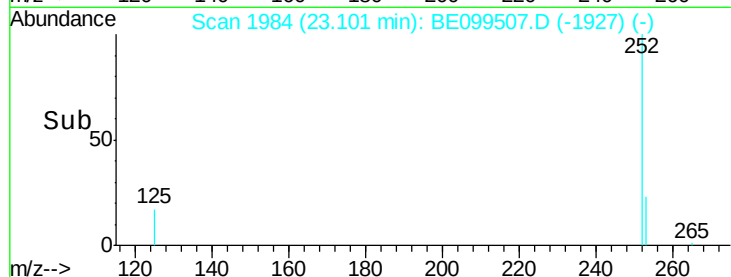
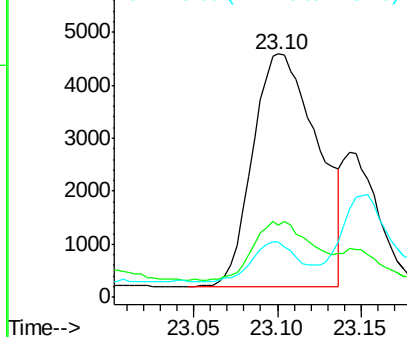
252 100

253 29.7 18.1 27.1#

125 22.6 5.6 8.4#



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



#36

Benzo(k)fluoranthene

Concen: 0.142 ng

RT: 23.10 min Scan# 1984

Delta R.T. -0.05 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

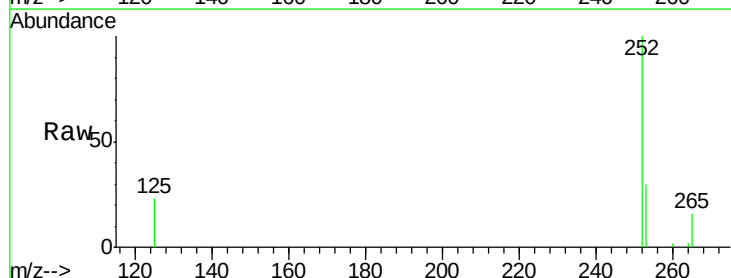
Tgt Ion:252 Resp: 11884

Ion Ratio Lower Upper

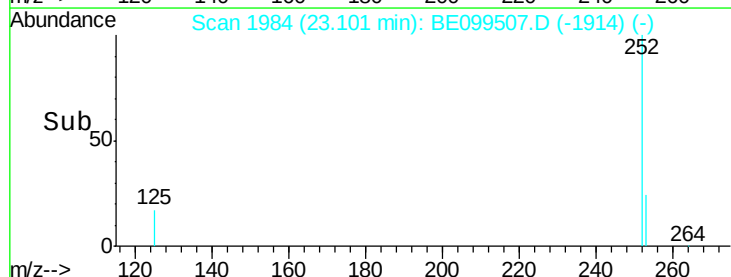
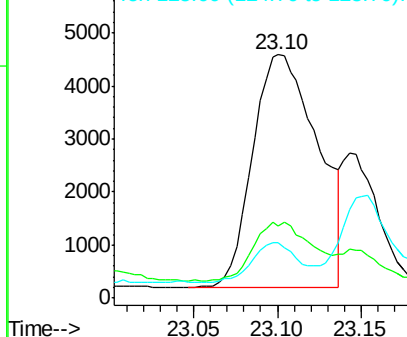
252 100

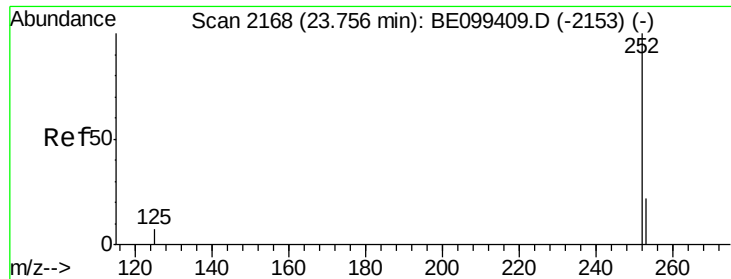
253 29.7 18.4 27.6#

125 22.6 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





#37

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.75 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B185-042419

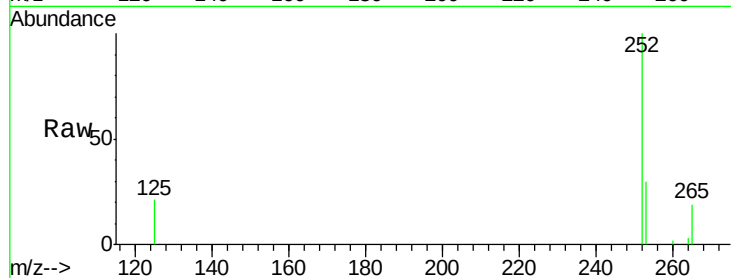
Tot Ion:252 Resp: 8123

Ion Ratio Lower Upper

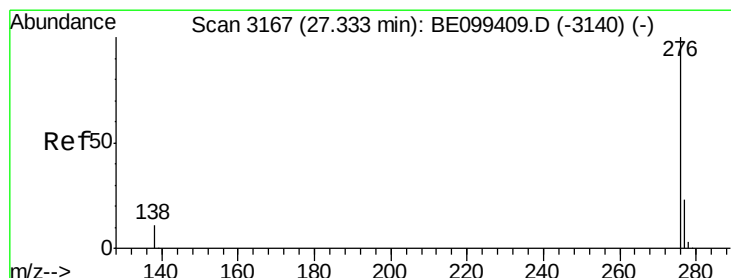
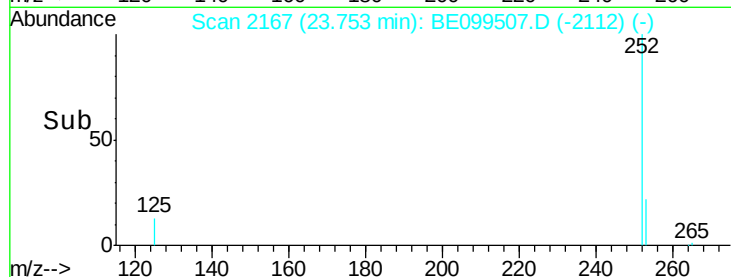
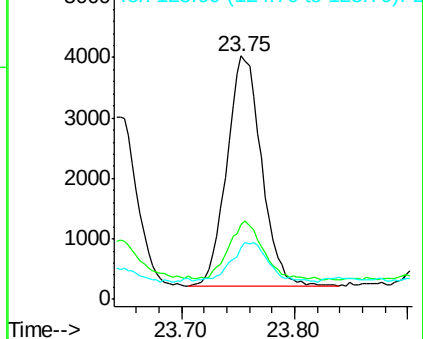
252 100

253 30.4 18.9 28.3#

125 21.0 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



#39

Benzo(g,h,i)perylene

Concen: 0.068 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099507.D

Acq: 2 May 2019 23:31

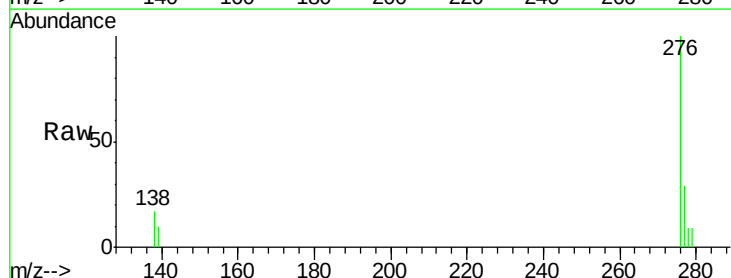
Tgt Ion:276 Resp: 5726

Ion Ratio Lower Upper

276 100

277 29.4 19.5 29.3#

138 17.5 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

