

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050119\
 Data File : BE099466.D
 Acq On : 1 May 2019 16:30
 Operator : JU/SJ
 Sample : K2589-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B201-042419

Quant Time: May 02 04:14:16 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	7.81	152	2526	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9593	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7968	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	24421	0.40	ng	0.00
27) Chrysene-d12	21.37	240	27674	0.40	ng	0.00
34) Perylene-d12	23.86	264	31999	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1943	0.28	ng	0.00
5) Phenol-d6	6.97	99	2839	0.31	ng	0.00
8) Nitrobenzene-d5	8.96	82	2295	0.26	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	4804	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.93	330	1473	0.29	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	7227	0.24	ng	-0.01
25) Fluoranthene-d10	19.22	212	75760	0.23	ng	0.00
29) Terphenyl-d14	19.82	244	14474	0.29	ng	0.00

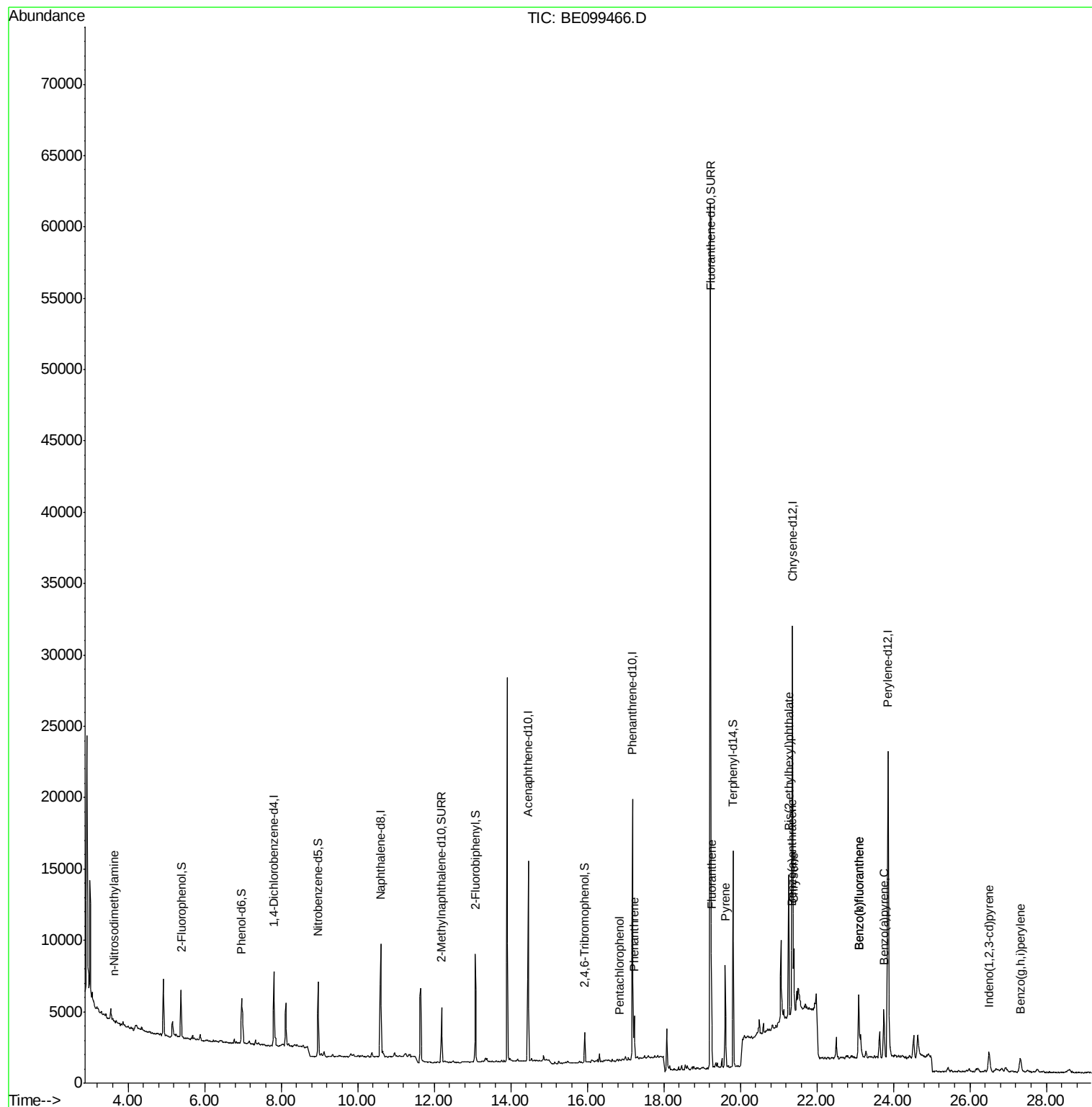
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.63	42	48	0.023	ng	# 1
22) Pentachlorophenol	16.84	266	50	0.222	ng	# 70
23) Phenanthrene	17.23	178	3019	0.048	ng	# 95
26) Fluoranthene	19.25	202	6386	0.068	ng	# 98
28) Pyrene	19.61	202	6858	0.095	ng	# 97
30) Benzo(a)anthracene	21.34	228	3046	0.035	ng	# 87
31) Chrysene	21.40	228	4296	0.050	ng	# 92
32) Bis(2-ethylhexyl)phthalate	21.27	149	13827	0.039	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.50	276	2474	0.024	ng	# 92
35) Benzo(b)fluoranthene	23.10	252	5395	0.058	ng	# 17
36) Benzo(k)fluoranthene	23.10	252	5395	0.061	ng	# 21
37) Benzo(a)pyrene	23.75	252	3329	0.038	ng	# 10
39) Benzo(a,h,i)perylene	27.33	276	2769	0.031	ng	# 75

(#) = 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: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

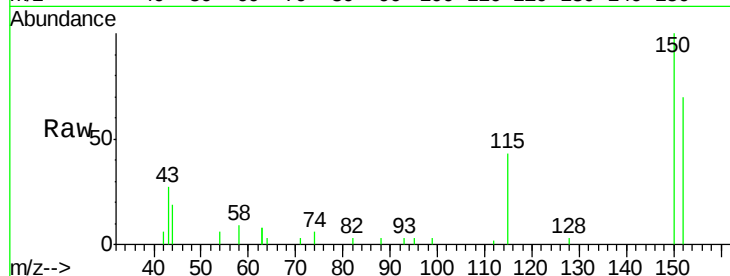
Tot Ion:152 Resp: 2526

Ion Ratio Lower Upper

152 100

150 143.8 104.8 157.2

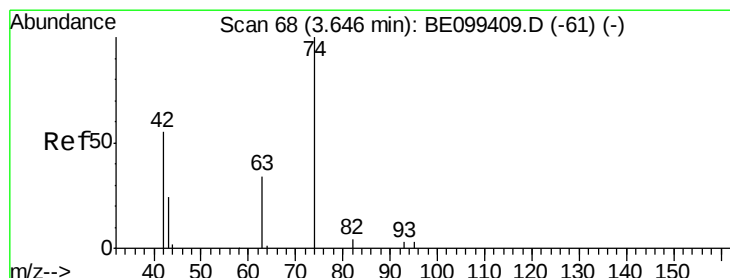
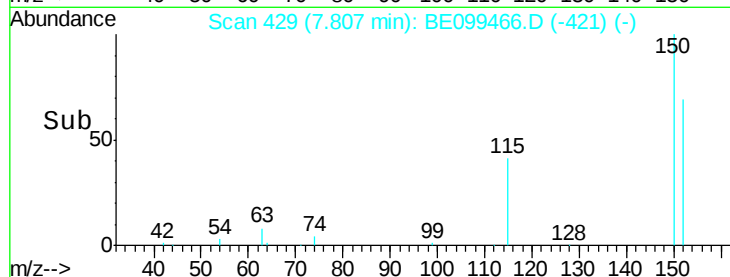
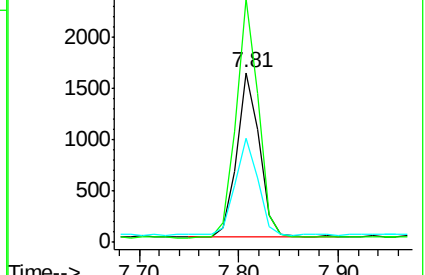
115 61.6 46.6 69.8



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



#3

n-Nitrosodimethylamine

Concen: 0.023 ng

RT: 3.63 min Scan# 66

Delta R.T. -0.02 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

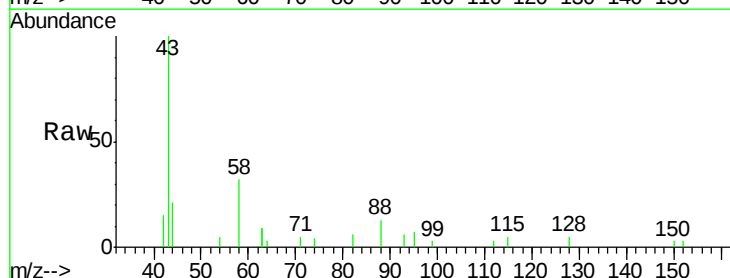
Tgt Ion: 42 Resp: 48

Ion Ratio Lower Upper

42 100

74 0.0 141.6 212.4#

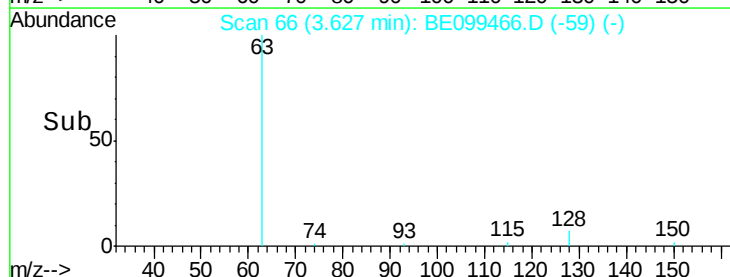
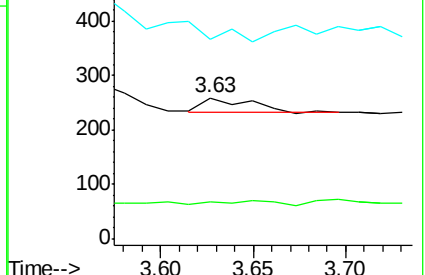
44 0.0 0.0 0.0

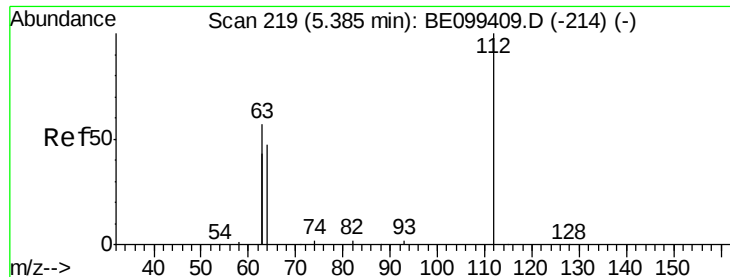


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.278 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

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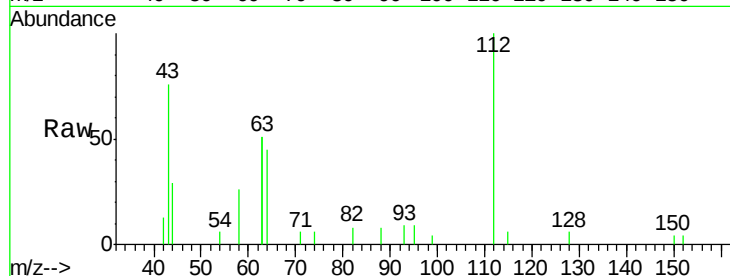
Tot Ion:112 Resp: 1943

Ion Ratio Lower Upper

112 100

64 57.4 47.4 71.0

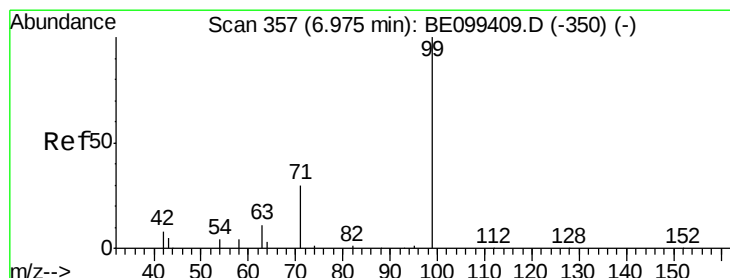
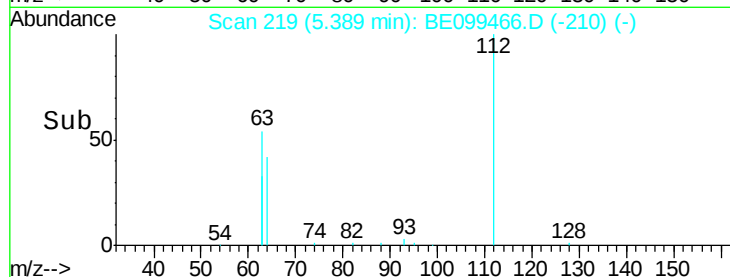
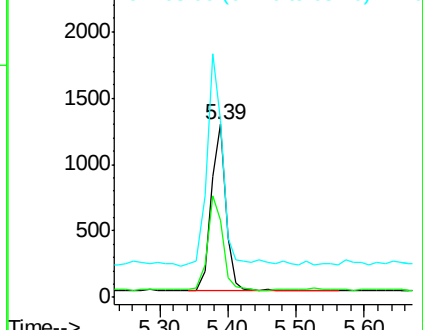
63 130.0 104.3 156.5



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: 0.306 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

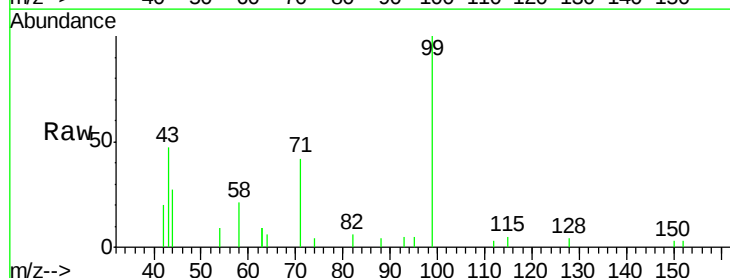
Tgt Ion: 99 Resp: 2839

Ion Ratio Lower Upper

99 100

42 17.5 14.9 22.3

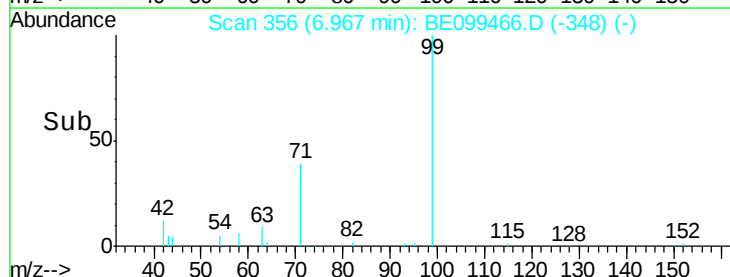
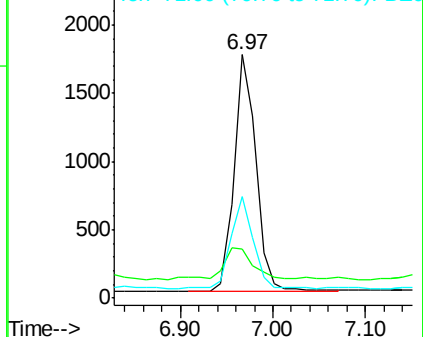
71 40.3 33.0 49.6

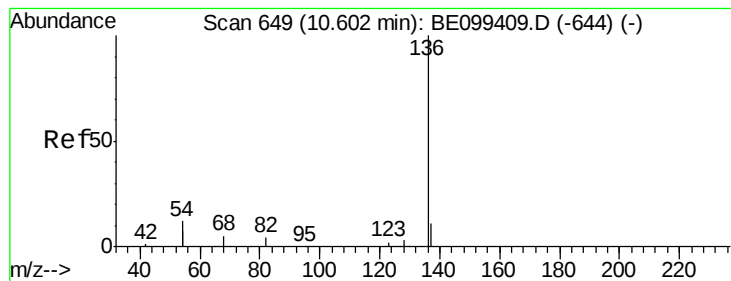


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

Tot Ion:136 Resp: 9593

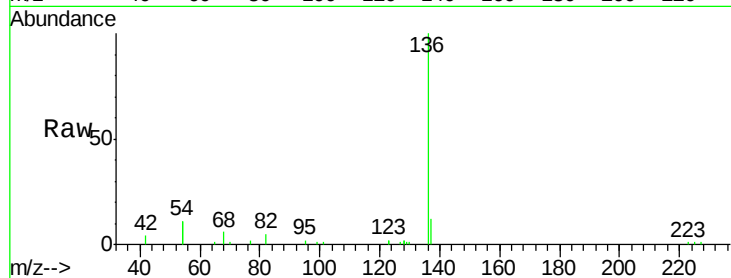
Ion Ratio Lower Upper

136 100

137 12.2 9.8 14.8

54 21.4 18.5 27.7

68 6.0 4.7 7.1

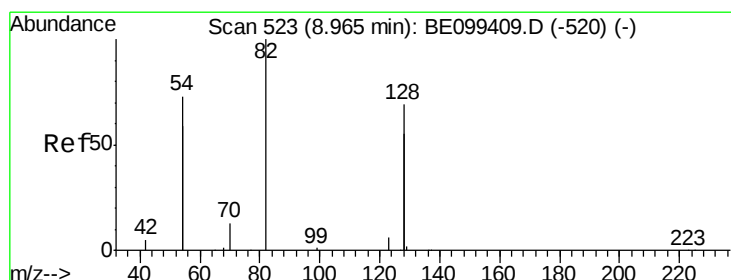
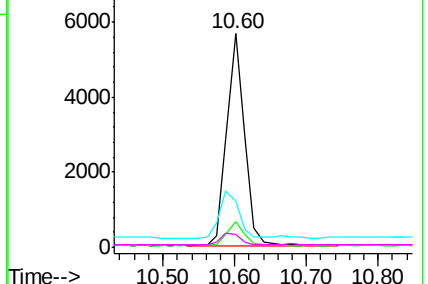
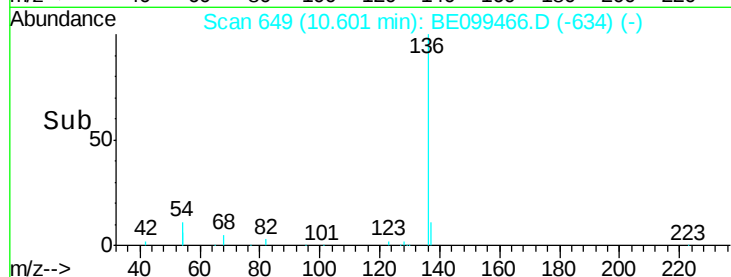


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.255 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

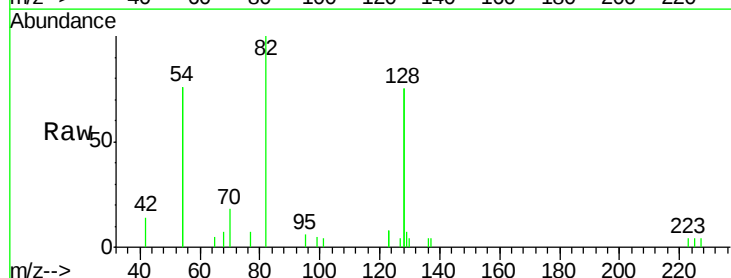
Tgt Ion: 82 Resp: 2295

Ion Ratio Lower Upper

82 100

128 149.1 107.0 160.4

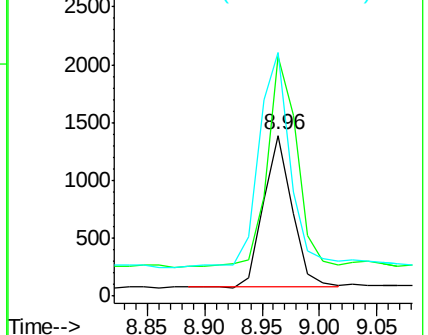
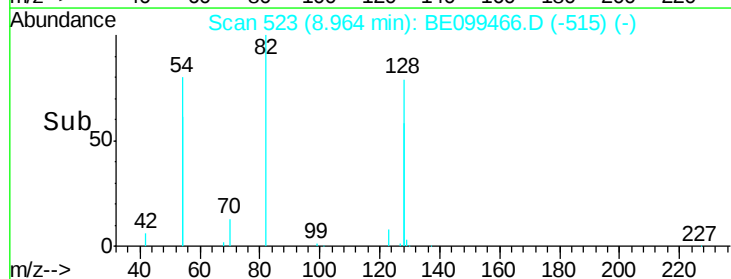
54 151.6 113.1 169.7

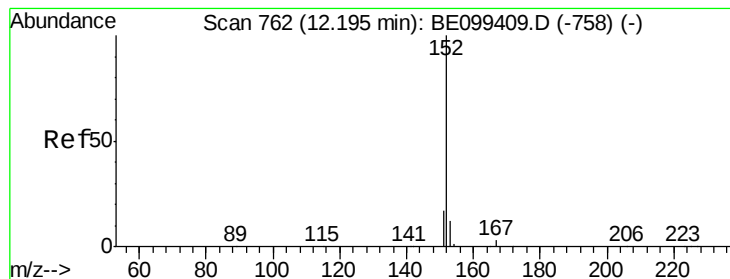


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.278 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

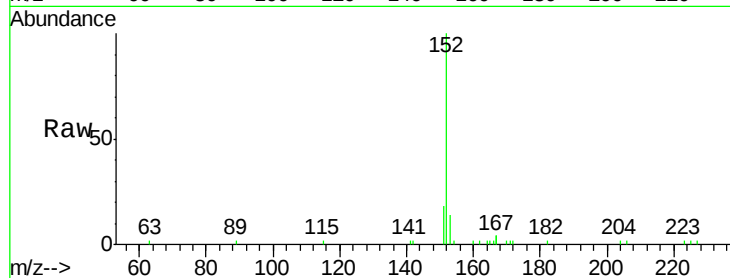
PST-001-B201-042419

Tot Ion:152 Resp: 4804

Ion Ratio Lower Upper

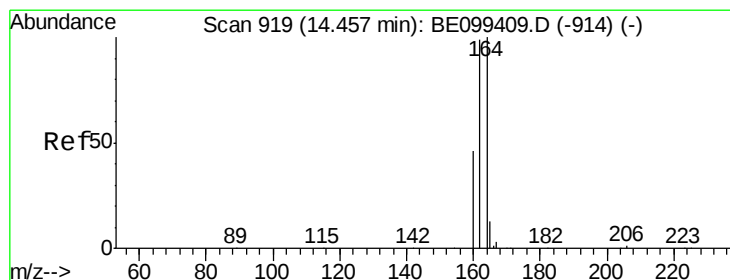
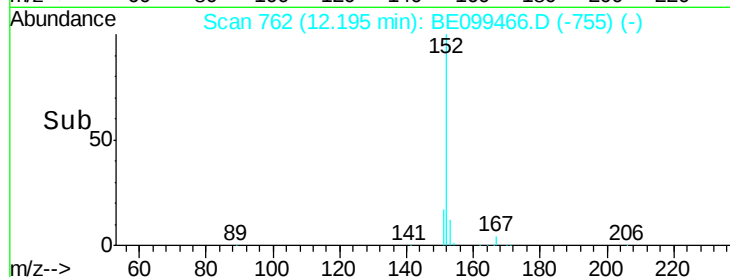
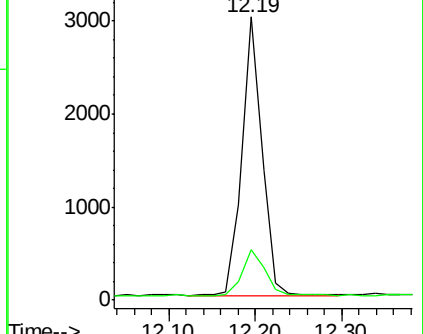
152 100

151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

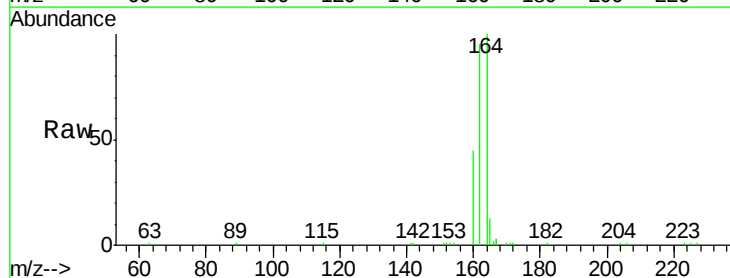
Tgt Ion:164 Resp: 7968

Ion Ratio Lower Upper

164 100

162 94.9 79.0 118.4

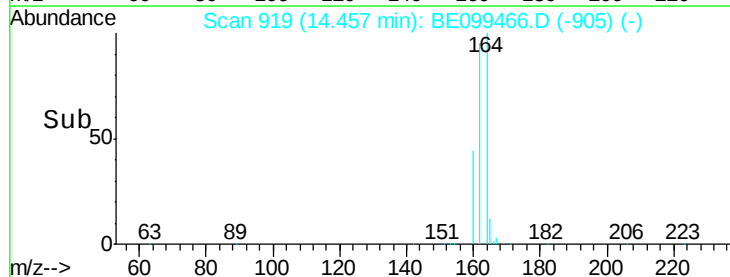
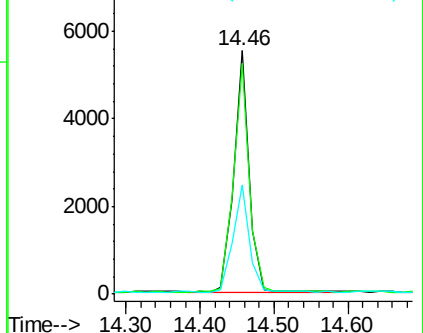
160 44.8 37.0 55.4

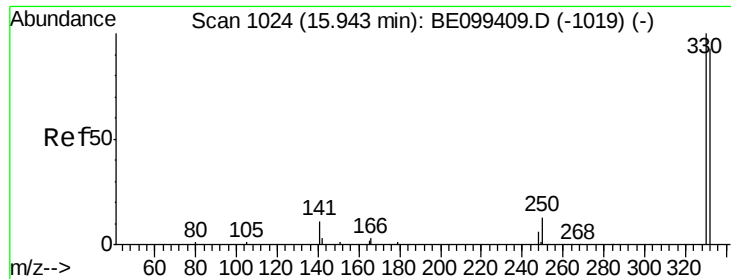


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

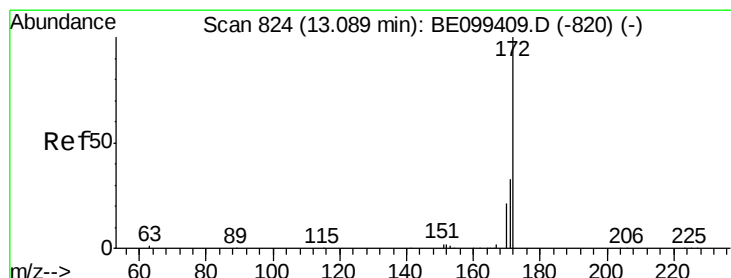
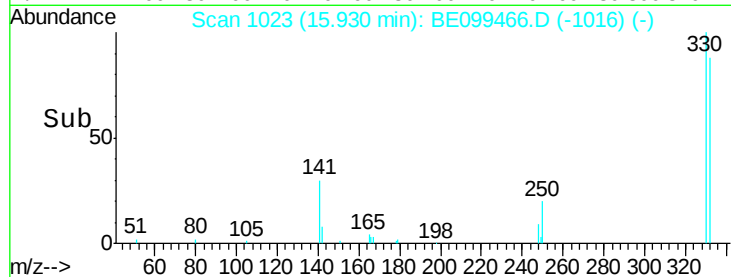
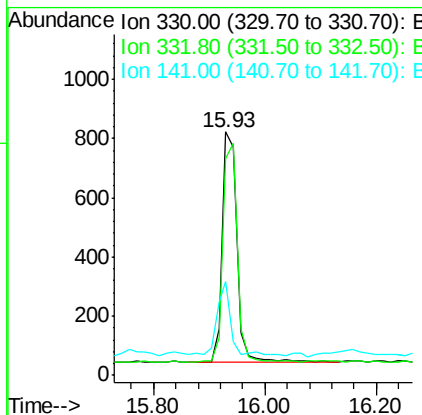
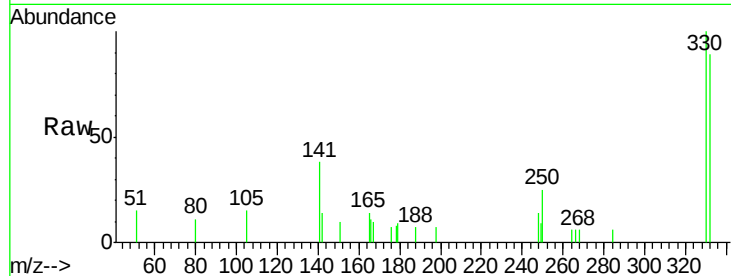




#14
 2,4,6-Tribromophenol
 Concen: 0.293 ng
 RT: 15.93 min Scan# 1023
 Delta R.T. -0.01 min
 Lab File: BE099466.D
 Acq: 1 May 2019 16:30

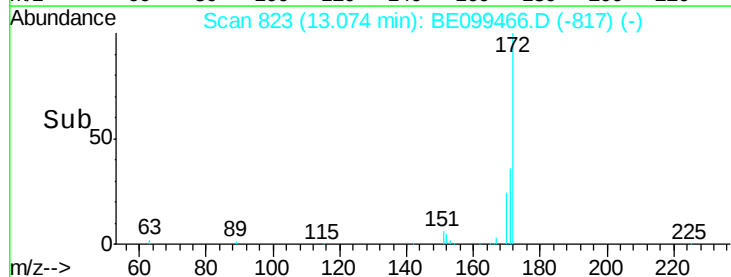
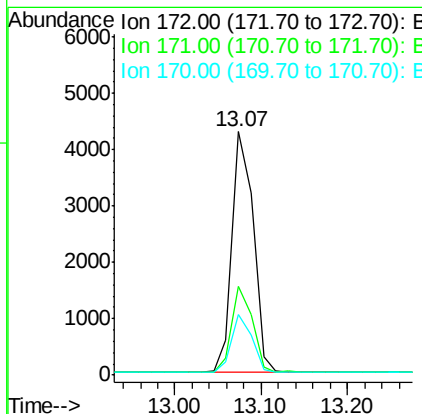
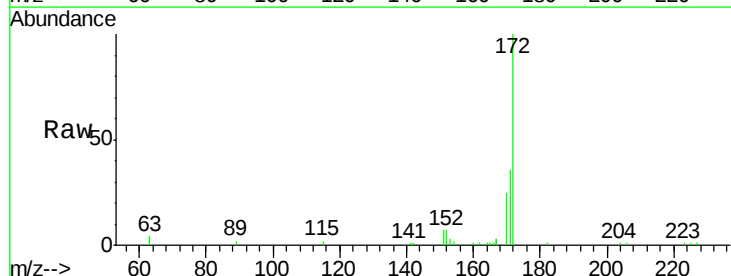
Instrument :
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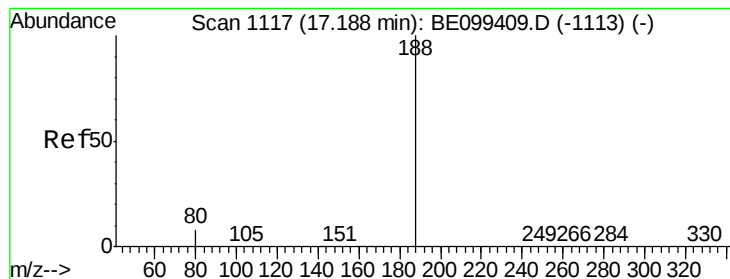
Tot Ion:330 Resp: 1473
 Ion Ratio Lower Upper
 330 100
 332 91.6 71.5 107.3
 141 26.2 24.0 36.0



#15
 2-Fluorobiphenyl
 Concen: 0.238 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: BE099466.D
 Acq: 1 May 2019 16:30

Tgt Ion:172 Resp: 7227
 Ion Ratio Lower Upper
 172 100
 171 36.2 26.6 39.8
 170 25.0 17.0 25.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

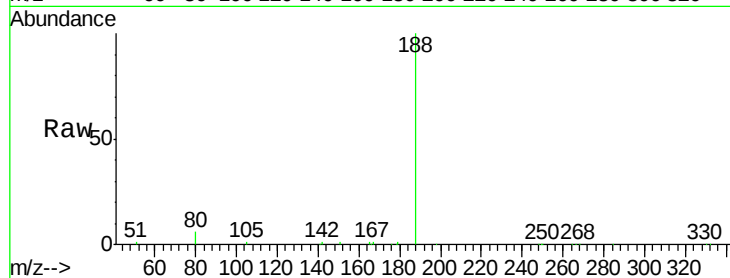
Tot Ion:188 Resp: 24421

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

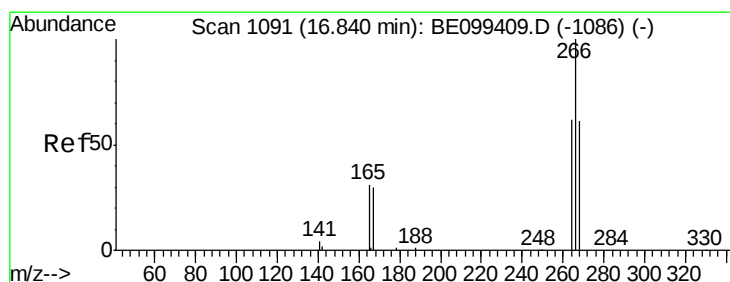
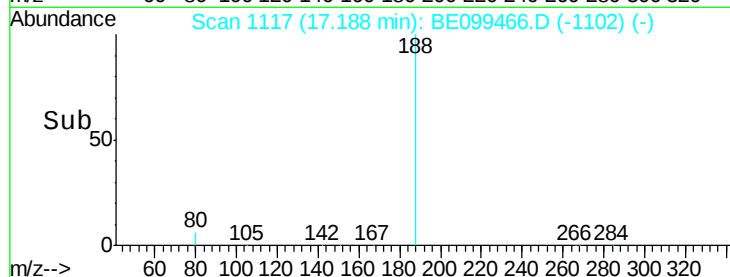
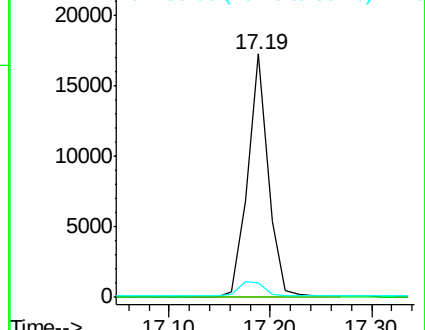
80 6.1 6.7 10.1#



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: 0.222 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

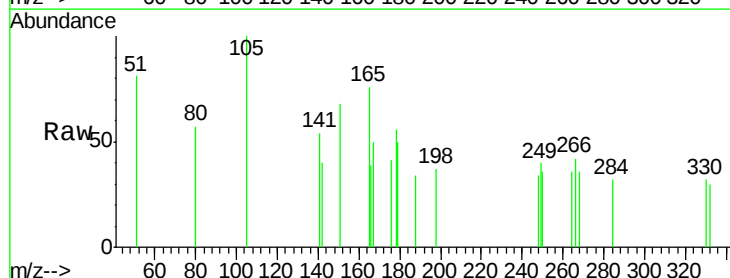
Tgt Ion:266 Resp: 50

Ion Ratio Lower Upper

266 100

264 85.7 50.8 76.2#

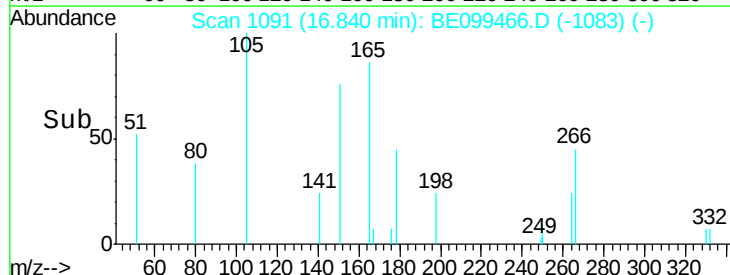
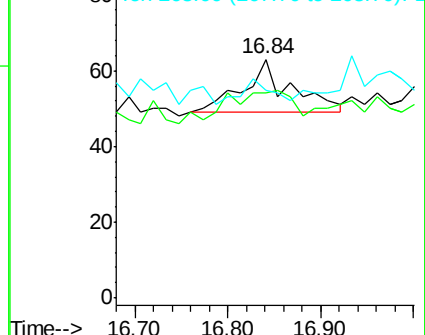
268 87.3 50.5 75.7#

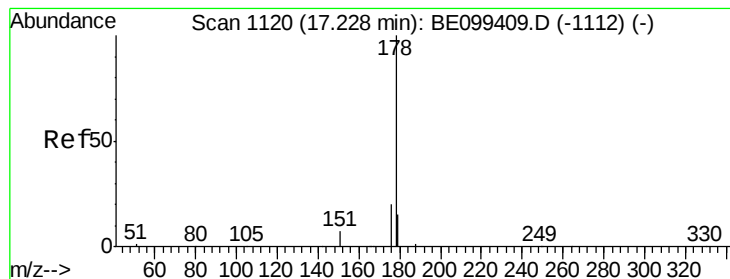


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.048 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

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ClientSampleId :

PST-001-B201-042419

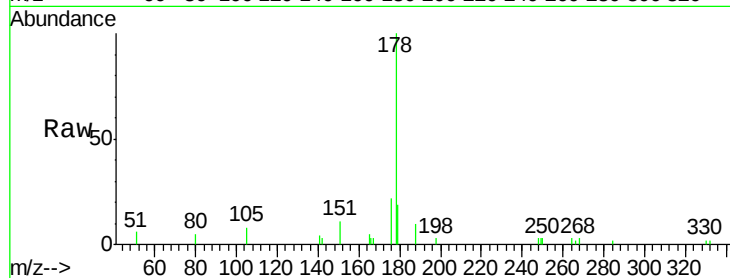
Tot Ion:178 Resp: 3019

Ion Ratio Lower Upper

178 100

176 20.9 15.6 23.4

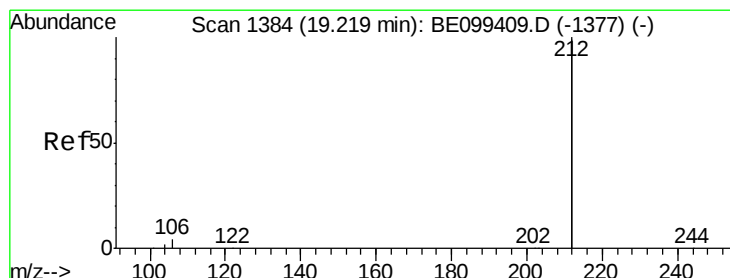
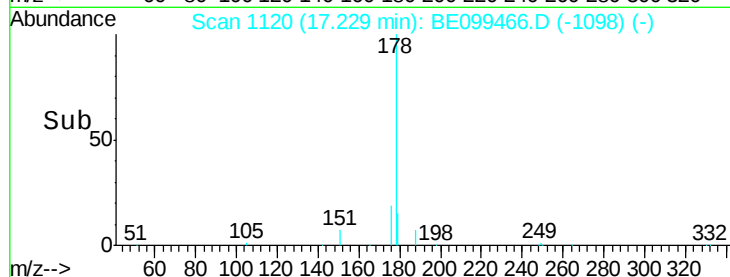
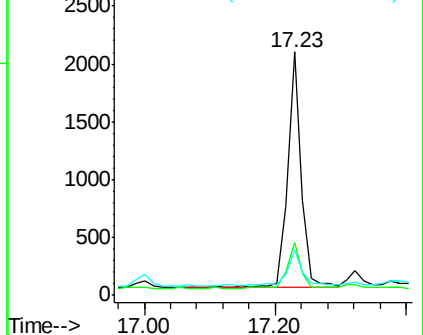
179 18.3 12.0 18.0#



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: 0.230 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

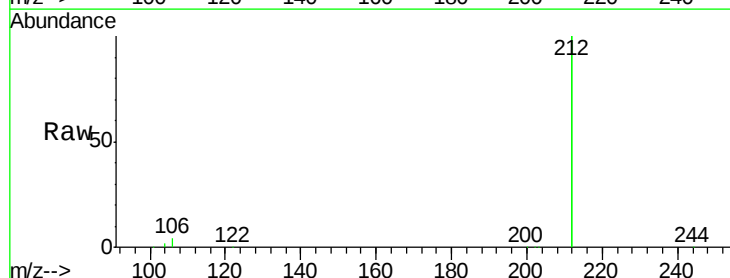
Tgt Ion:212 Resp: 75760

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

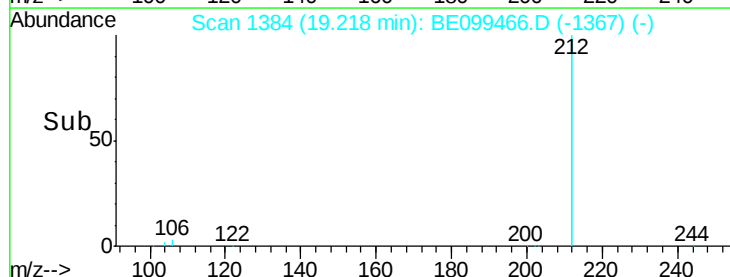
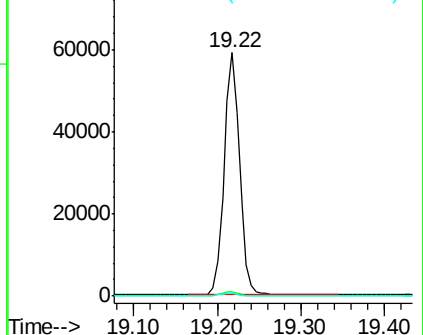
104 1.1 0.9 1.3

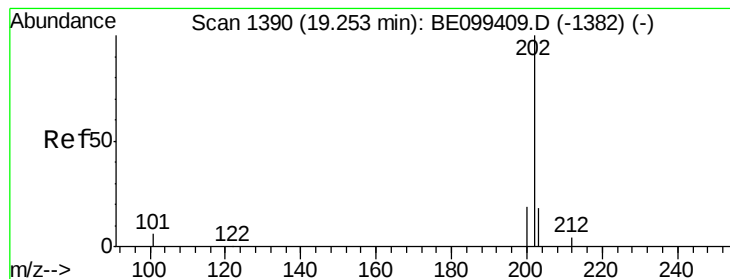


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.068 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

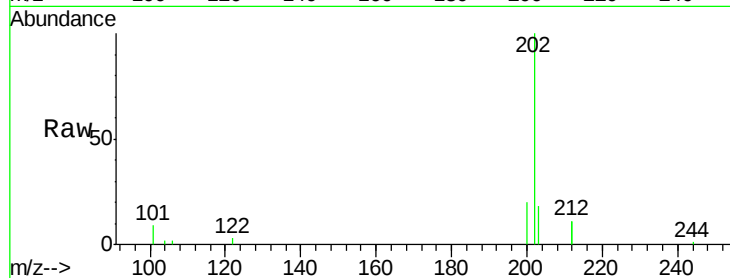
Tot Ion:202 Resp: 6386

Ion Ratio Lower Upper

202 100

101 8.5 5.4 8.0#

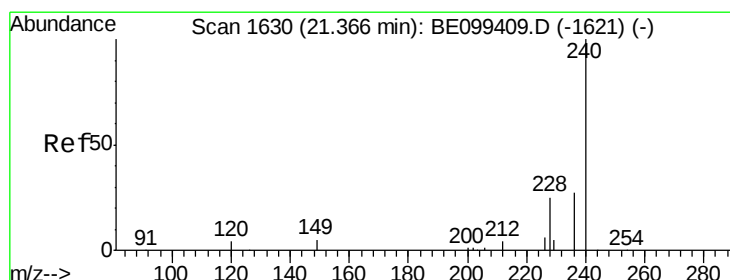
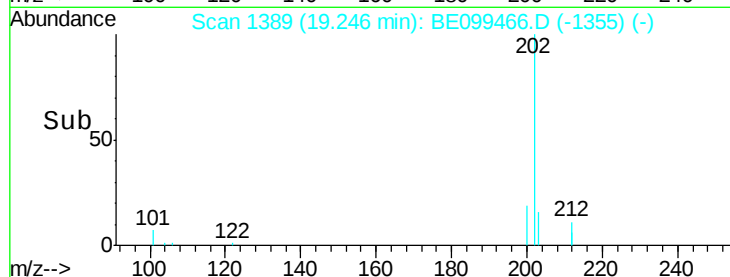
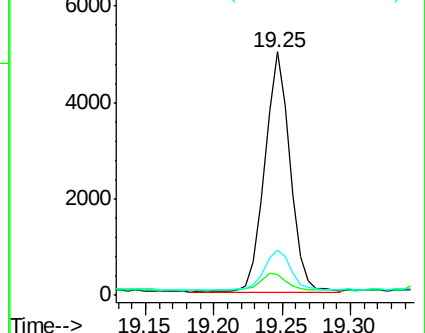
203 17.3 13.9 20.9



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: BE099466.D

Acq: 1 May 2019 16:30

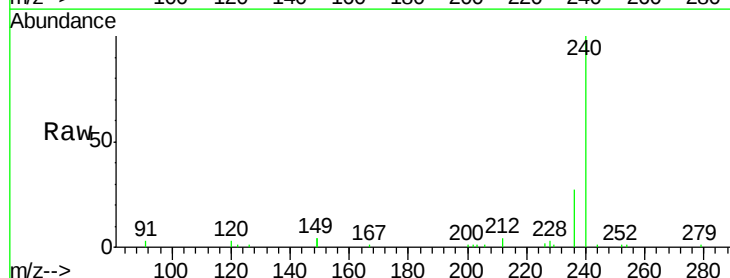
Tgt Ion:240 Resp: 27674

Ion Ratio Lower Upper

240 100

120 3.1 4.0 6.0#

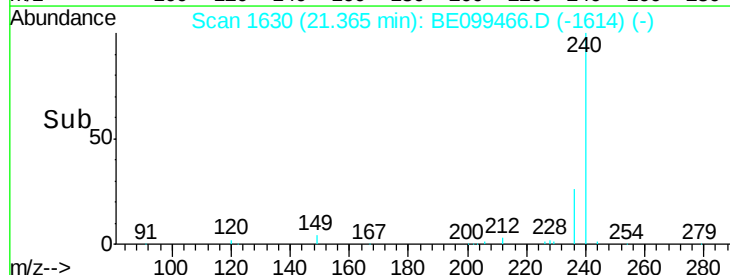
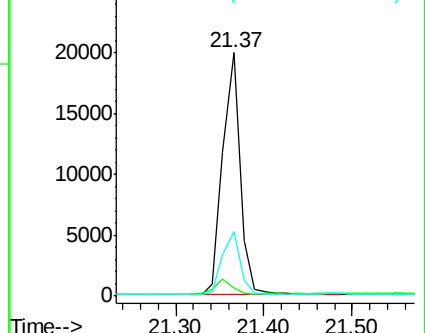
236 26.7 22.0 33.0

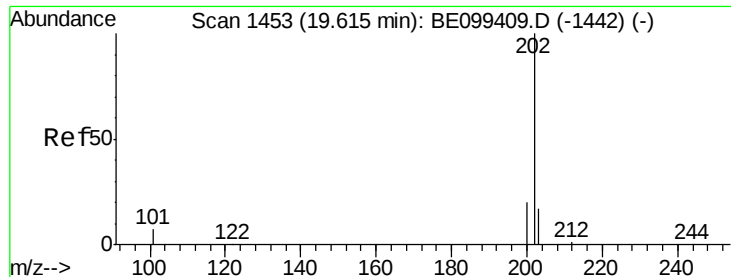


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.095 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

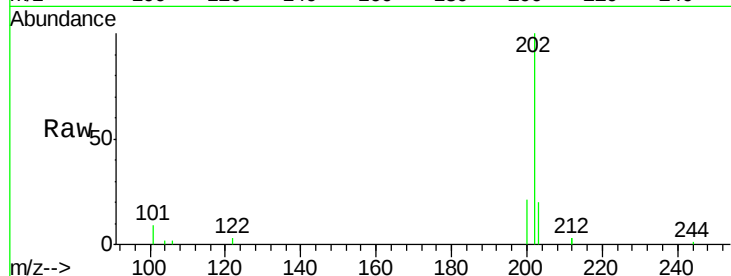
Tot Ion:202 Resp: 6858

Ion Ratio Lower Upper

202 100

200 20.4 15.7 23.5

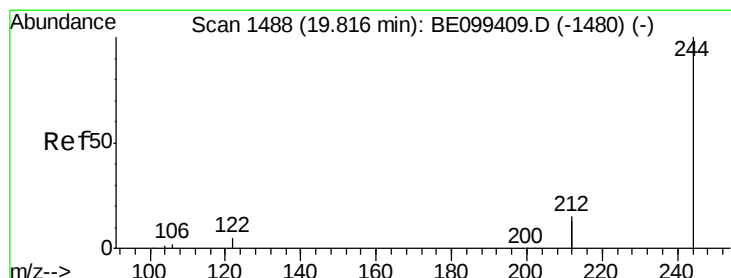
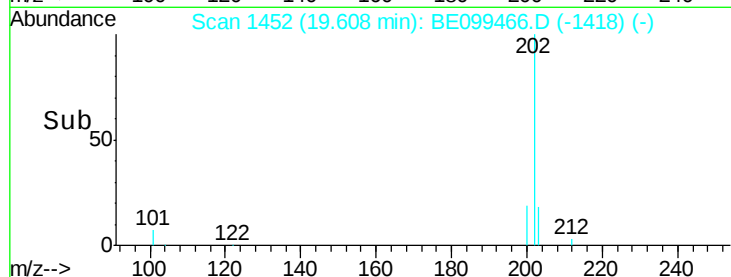
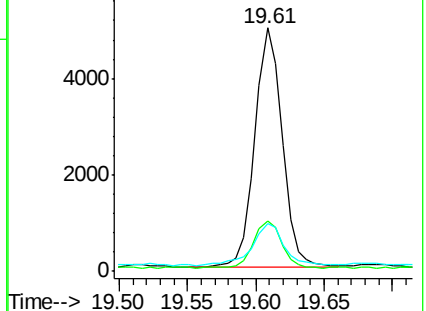
203 19.8 13.9 20.9



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: 0.286 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

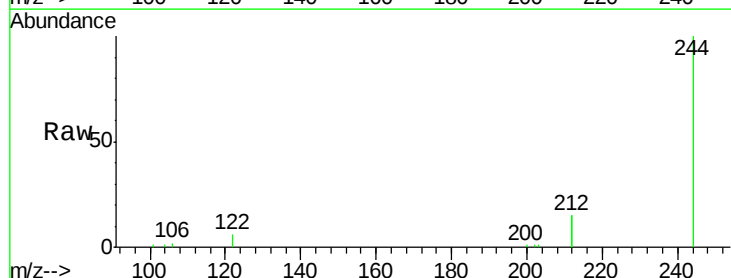
Tgt Ion:244 Resp: 14474

Ion Ratio Lower Upper

244 100

212 29.6 23.2 34.8

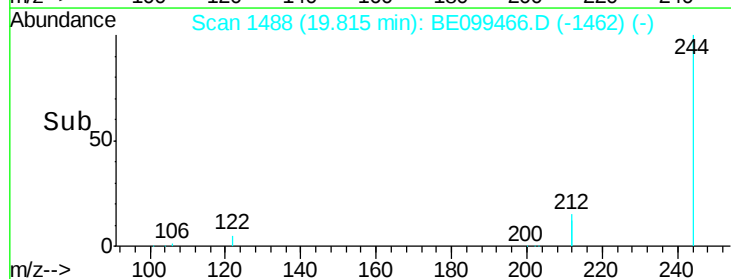
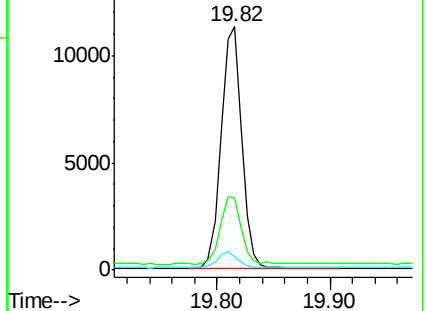
122 5.5 4.2 6.4

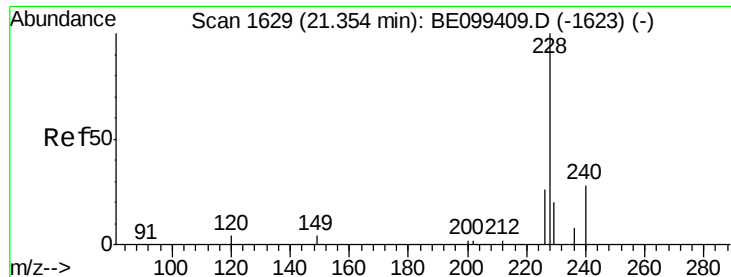


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

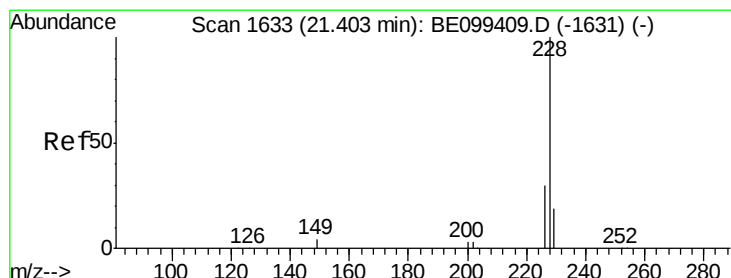
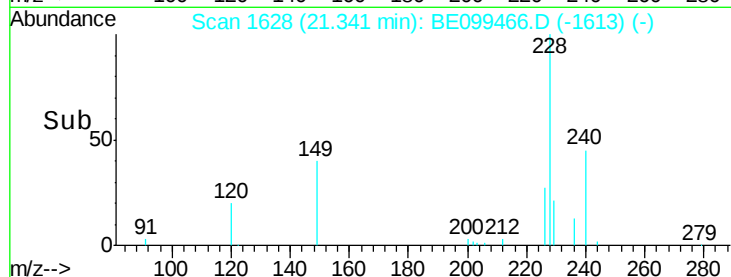
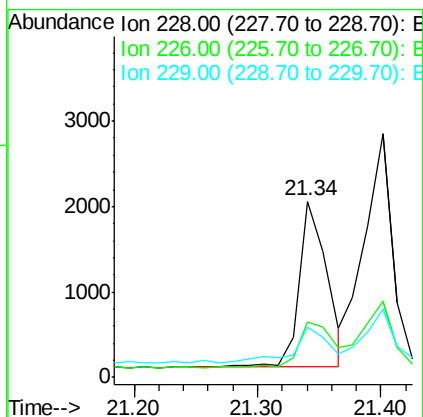
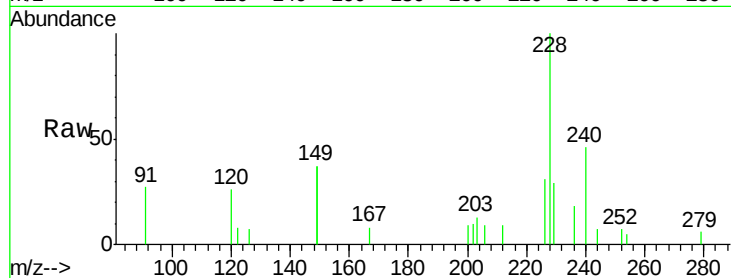




#30
Benzo(a)anthracene
Concen: 0.035 ng
RT: 21.34 min Scan# 1628
Delta R.T. -0.01 min
Lab File: BE099466.D
Acq: 1 May 2019 16:30

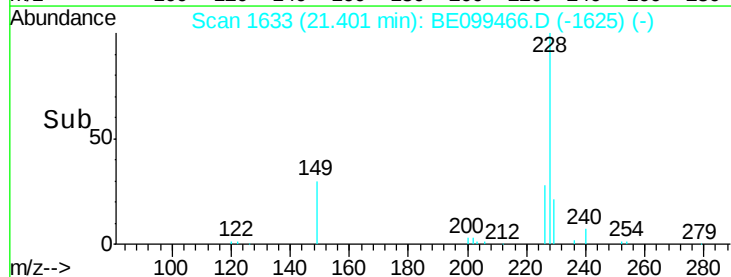
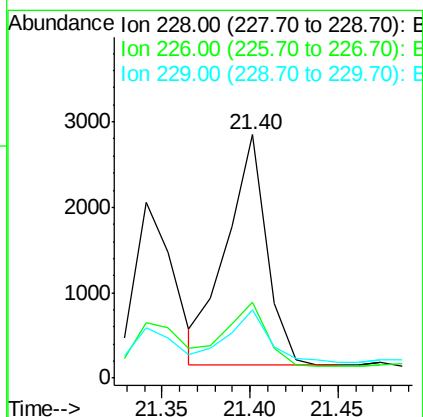
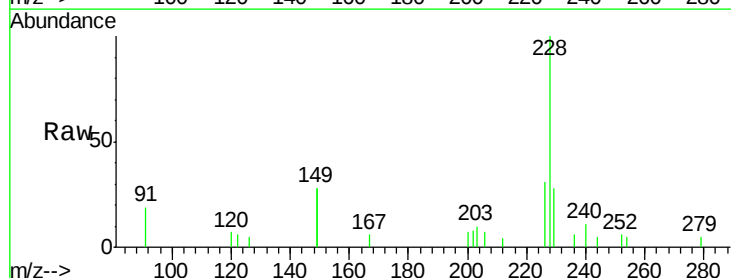
Instrument :
BNA_E
ClientSampleId :
PST-001-B201-042419

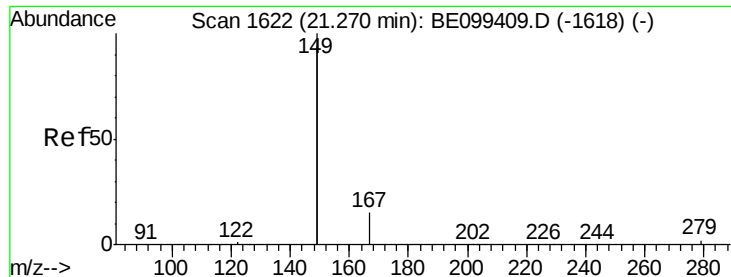
Tot Ion:228 Resp: 3046
Ion Ratio Lower Upper
228 100
226 31.2 21.0 31.6
229 28.5 16.6 25.0#



#31
Chrysene
Concen: 0.050 ng
RT: 21.40 min Scan# 1633
Delta R.T. -0.00 min
Lab File: BE099466.D
Acq: 1 May 2019 16:30

Tgt Ion:228 Resp: 4296
Ion Ratio Lower Upper
228 100
226 31.0 24.0 36.0
229 27.9 15.8 23.8#

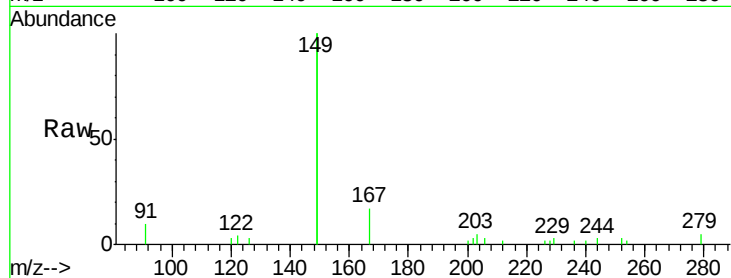




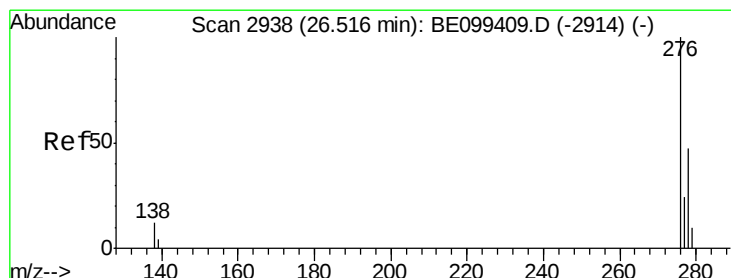
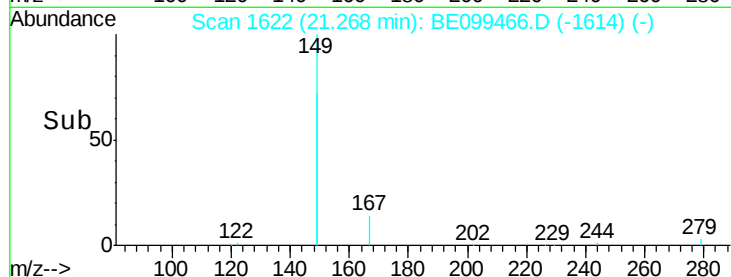
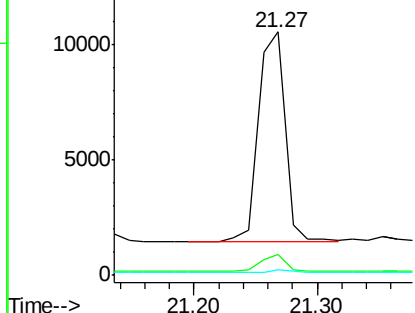
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.039 ng
 RT: 21.27 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: BE099466.D
 Acq: 1 May 2019 16:30

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B201-042419

Tot Ion:149 Resp: 13827
 Ion Ratio Lower Upper
 149 100
 167 7.6 5.8 8.6
 279 1.4 1.0 1.6

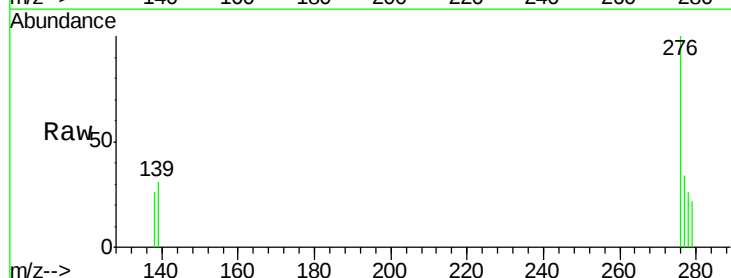


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

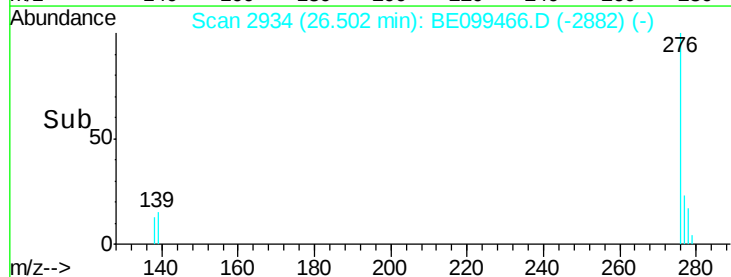
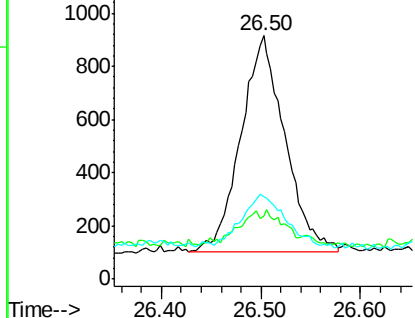


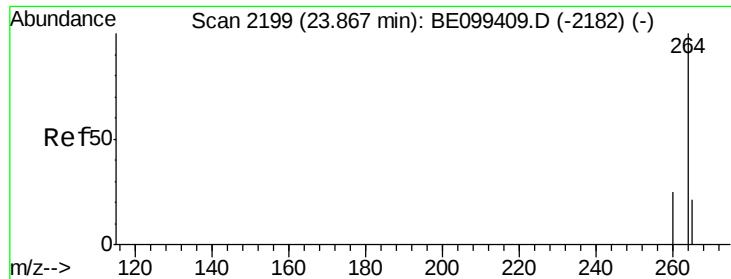
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.024 ng
 RT: 26.50 min Scan# 2934
 Delta R.T. -0.01 min
 Lab File: BE099466.D
 Acq: 1 May 2019 16:30

Tgt Ion:276 Resp: 2474
 Ion Ratio Lower Upper
 276 100
 138 6.6 10.2 15.2#
 277 25.8 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

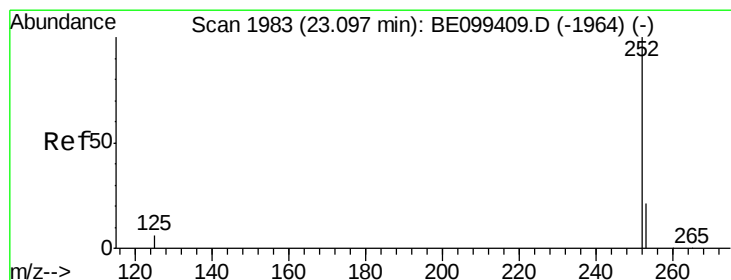
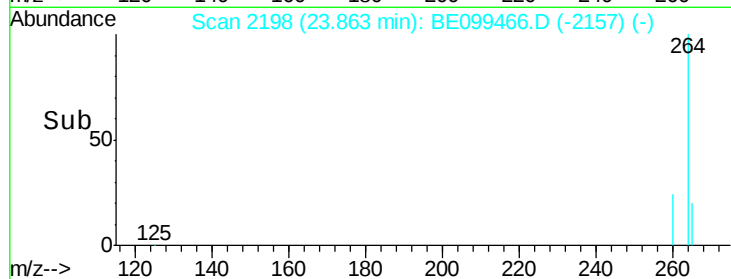
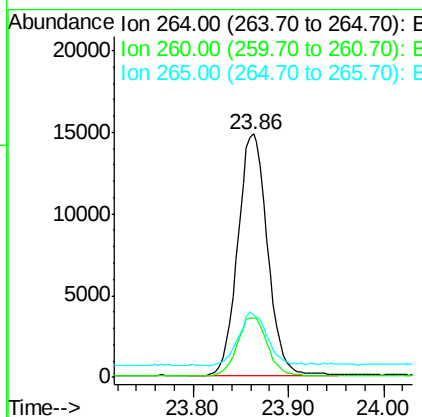
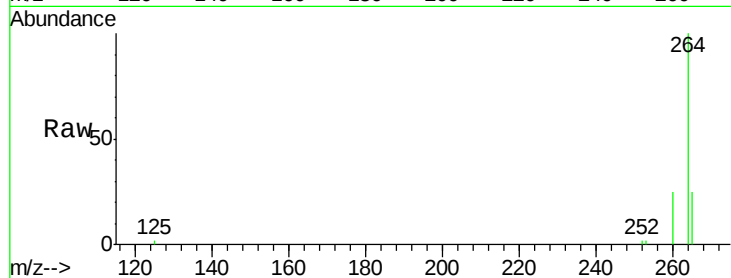




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2198
Delta R.T. -0.00 min
Lab File: BE099466.D
Acq: 1 May 2019 16:30

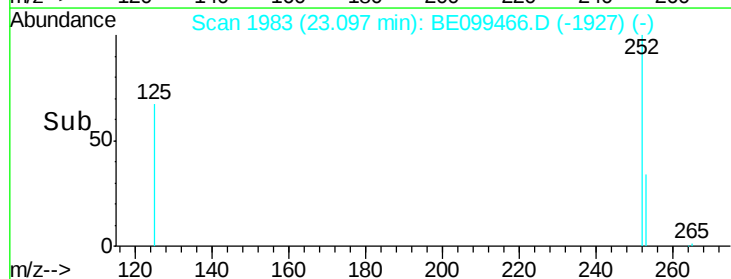
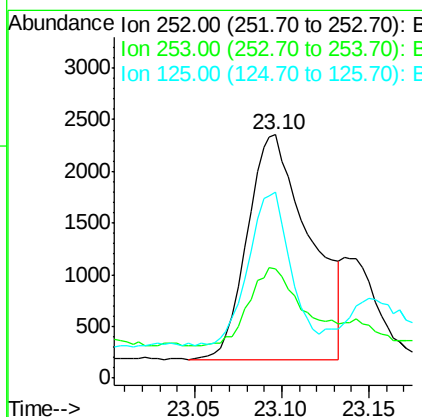
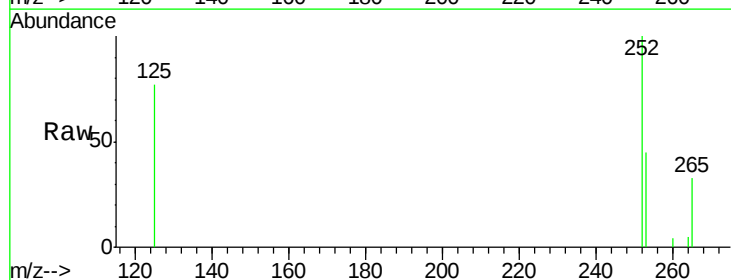
Instrument :
BNA_E
ClientSampleId :
PST-001-B201-042419

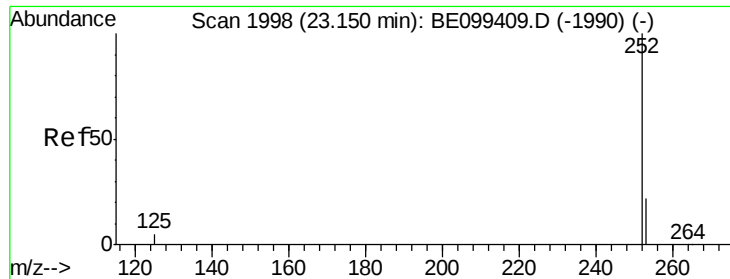
Tot Ion:264 Resp: 31999
Ion Ratio Lower Upper
264 100
260 24.6 20.2 30.2
265 25.3 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.058 ng
RT: 23.10 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BE099466.D
Acq: 1 May 2019 16:30

Tgt Ion:252 Resp: 5395
Ion Ratio Lower Upper
252 100
253 44.7 18.1 27.1#
125 76.5 5.6 8.4#





#36

Benzo(k)fluoranthene

Concen: 0.061 ng

RT: 23.10 min Scan# 1983

Delta R.T. -0.05 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

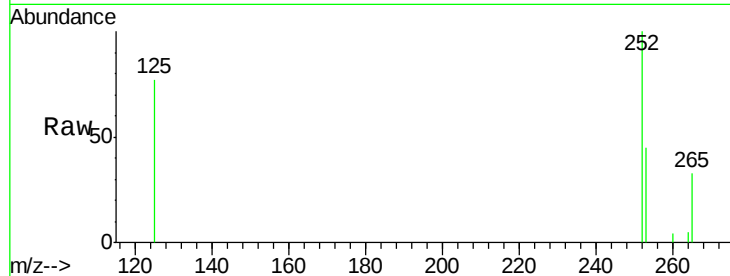
Tot Ion:252 Resp: 5395

Ion Ratio Lower Upper

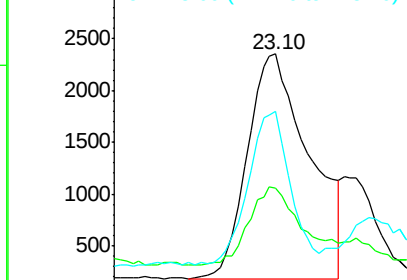
252 100

253 44.7 18.4 27.6#

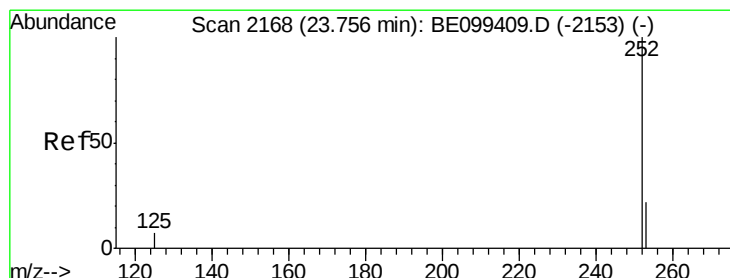
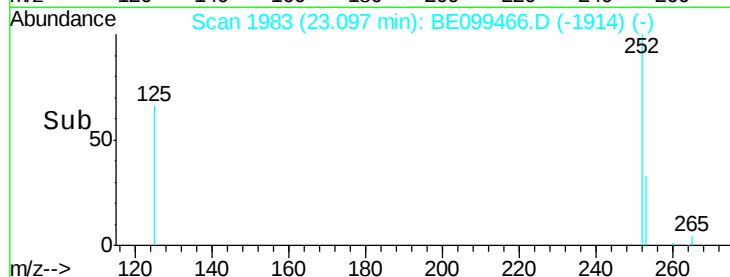
125 76.5 5.0 7.4#



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: 0.038 ng

RT: 23.75 min Scan# 2166

Delta R.T. -0.01 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

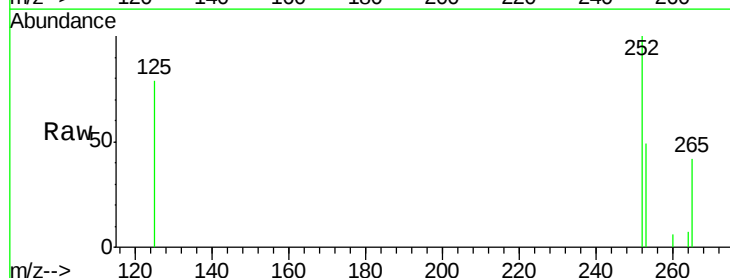
Tgt Ion:252 Resp: 3329

Ion Ratio Lower Upper

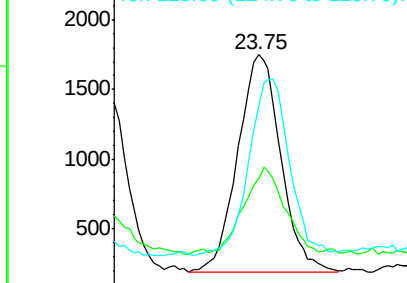
252 100

253 48.8 18.9 28.3#

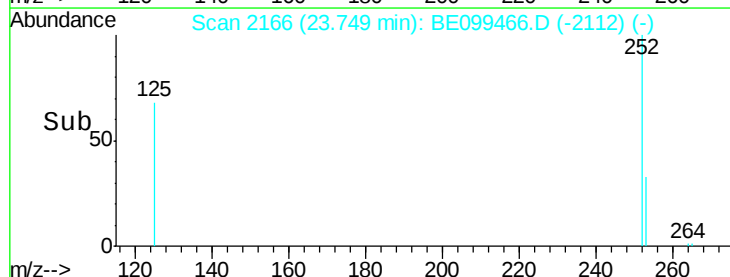
125 79.0 6.7 10.1#

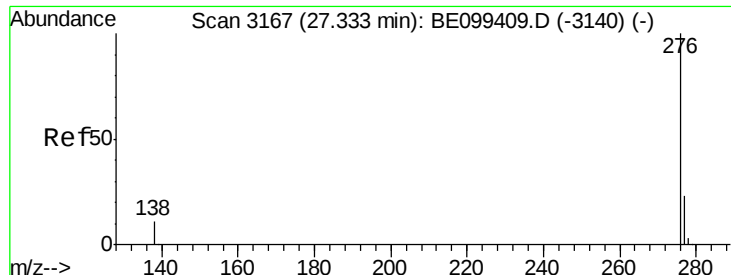


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#39

Benzo(a,h,i)perylene

Concen: 0.031 ng

RT: 27.33 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BE099466.D

Acq: 1 May 2019 16:30

Instrument :

BNA_E

ClientSampleId :

PST-001-B201-042419

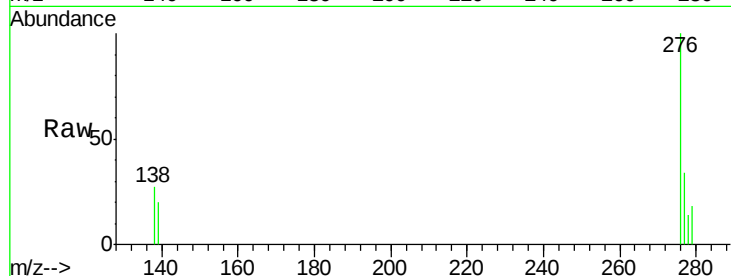
Tot Ion: 276 Resp: 2769

Ion Ratio Lower Upper

276 100

277 34.0 19.5 29.3#

138 26.6 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

1000

800

600

400

200

0

27.20 27.30 27.40

Time-->

