

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032319\
 Data File : BE099113.D
 Acq On : 23 Mar 2019 15:48
 Operator : JU/SJ
 Sample : K2014-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW074-031919

Quant Time: Mar 23 22:36:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 23 04:40:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	3367	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	13350	0.40	ng	-0.01
13) Acenaphthene-d10	14.49	164	8689	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	24428	0.40	ng	0.00
27) Chrysene-d12	21.39	240	35829	0.40	ng	0.00
34) Perylene-d12	23.90	264	37710	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	4109	0.41	ng	0.00
5) Phenol-d6	6.99	99	5802	0.40	ng	0.00
8) Nitrobenzene-d5	8.99	82	3778	0.65	ng	-0.01
11) 2-Methylnaphthalene-d10	12.22	152	8771	0.36	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	1386	0.54	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	13081	0.38	ng	-0.01
25) Fluoranthene-d10	19.24	212	123251	0.38	ng	0.00
29) Terphenyl-d14	19.83	244	24152	0.32	ng	0.00

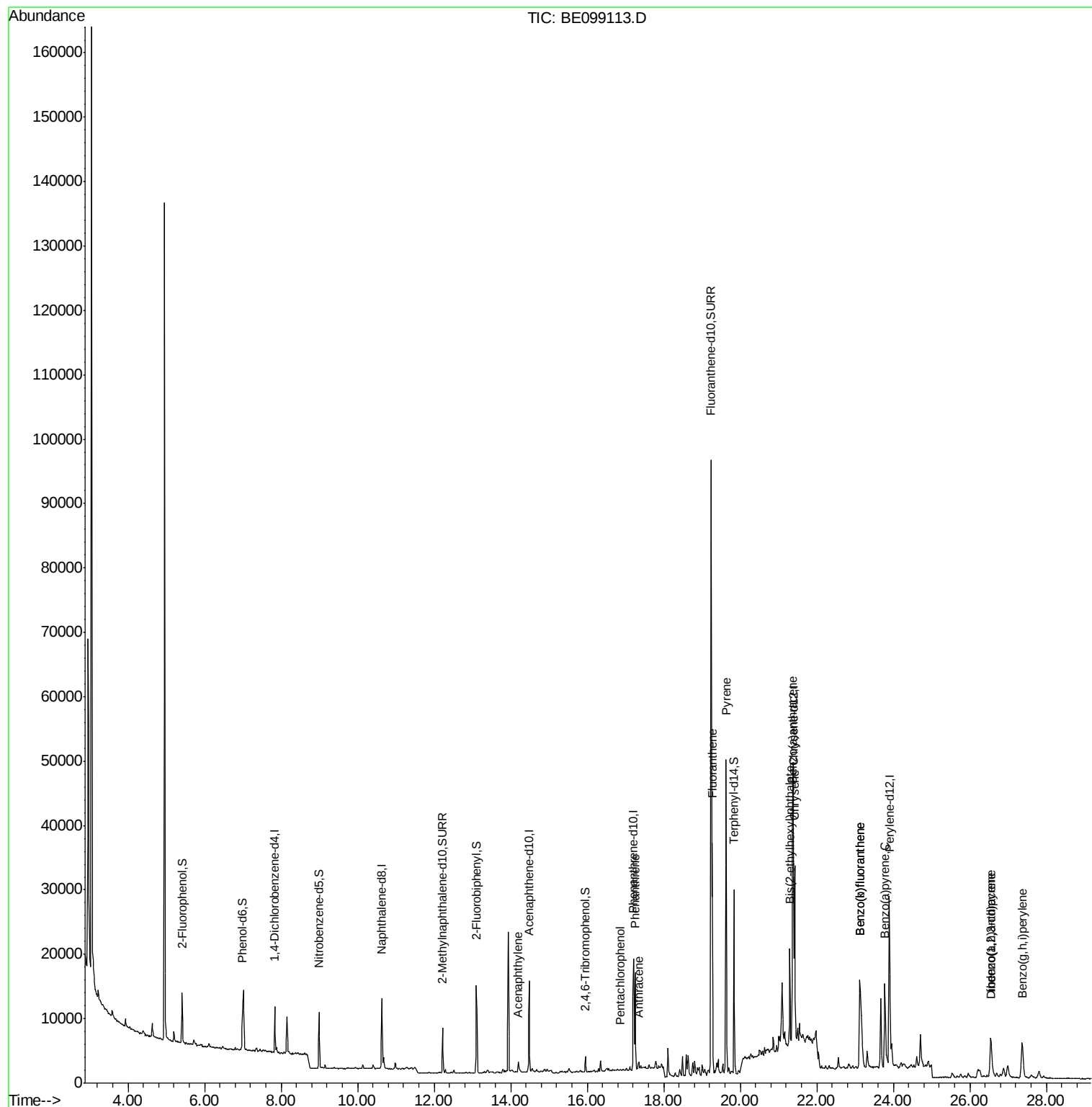
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acenaphthylene	14.20	152	2924	0.063	ng	94
22) Pentachlorophenol	16.85	266	47	0.260	ng	95
23) Phenanthrene	17.26	178	15446	0.213	ng	99
24) Anthracene	17.35	178	1811	0.026	ng	95
26) Fluoranthene	19.27	202	33009	0.323	ng	98
28) Pyrene	19.63	202	46044	0.379	ng	96
30) Benzo(a)anthracene	21.37	228	26403	0.209	ng	97
31) Chrysene	21.43	228	28298	0.224	ng	97
32) Bis(2-ethylhexyl)phthalate	21.29	149	16936	0.103	ng	100
33) Indeno(1,2,3-cd)pyrene	26.54	276	12603	0.093	ng	99
35) Benzo(b)fluoranthene	23.12	252	27695	0.212	ng	96
36) Benzo(k)fluoranthene	23.12	252	27695	0.217	ng	98
37) Benzo(a)pyrene	23.78	252	21747	0.180	ng	98
38) Dibenzo(a,h)anthracene	26.57	278	3501	0.030	ng	# 78
39) Benzo(g,h,i)perylene	27.37	276	14292	0.119	ng	97

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

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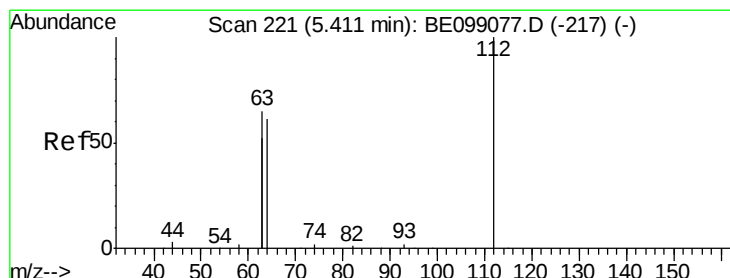
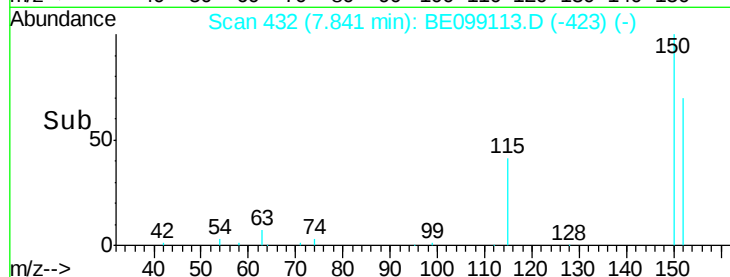
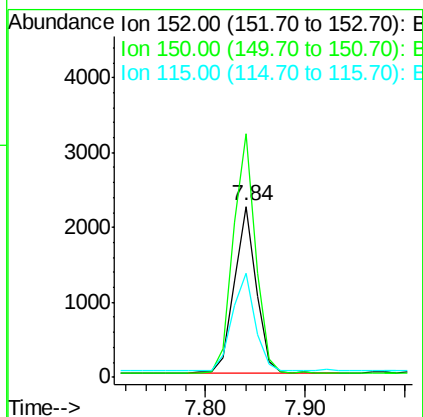
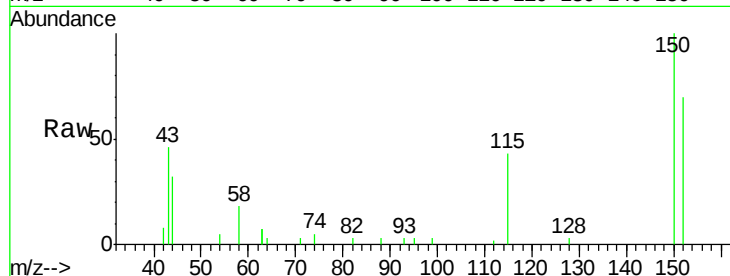


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

Instrument :
BNA_E
ClientSampleId :
PST-026-SW074-031919

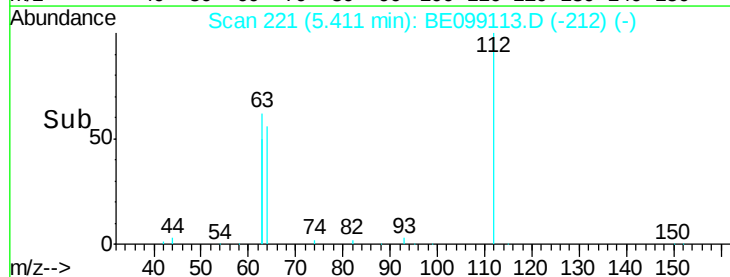
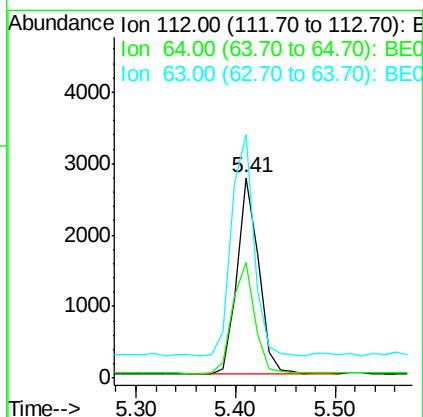
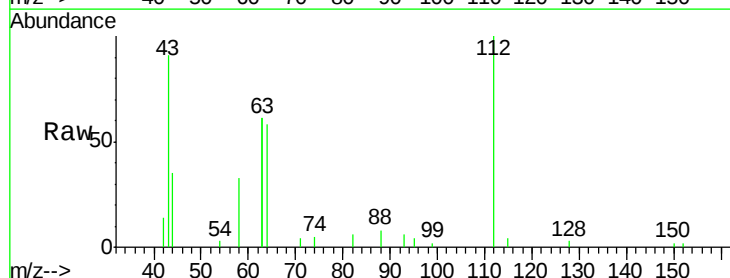
Tgt Ion:152 Resp: 3367
Ion Ratio Lower Upper
152 100
150 142.4 122.5 183.7
115 60.6 57.4 86.2

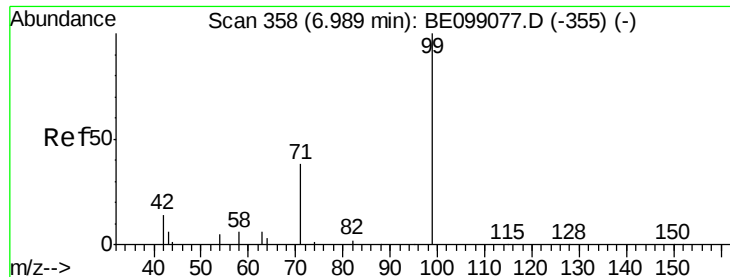


#4

2-Fluorophenol
Concen: 0.410 ng
RT: 5.41 min Scan# 221
Delta R.T. -0.00 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

Tgt Ion:112 Resp: 4109
Ion Ratio Lower Upper
112 100
64 58.7 57.9 86.9
63 118.1 158.3 237.5#





#5

Phenol-d6

Concen: 0.402 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

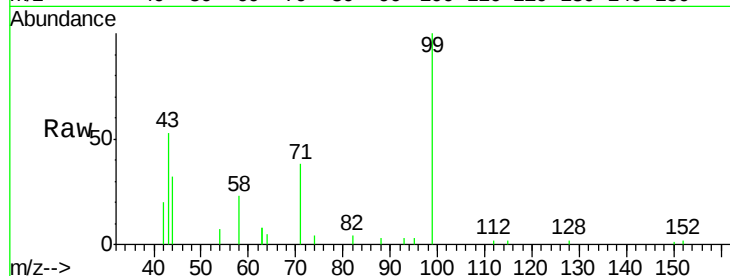
Tgt Ion: 99 Resp: 5802

Ion Ratio Lower Upper

99 100

42 23.0 24.2 36.2#

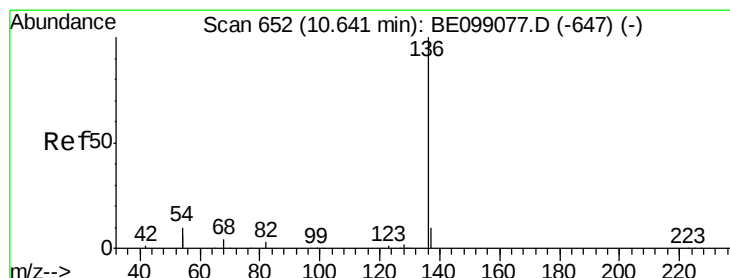
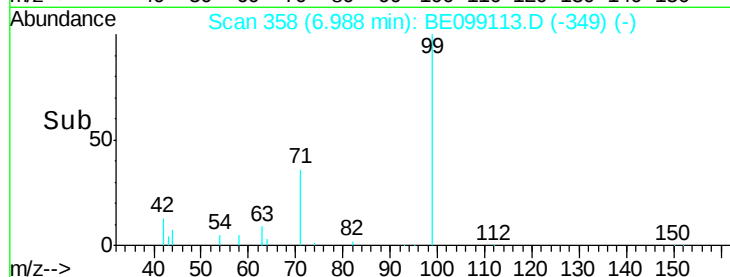
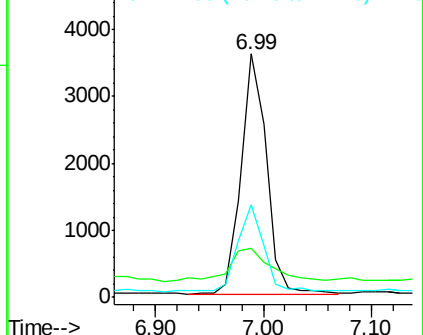
71 36.1 35.7 53.5



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: 10.63 min Scan# 651

Delta R.T. -0.01 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Tgt Ion: 136 Resp: 13350

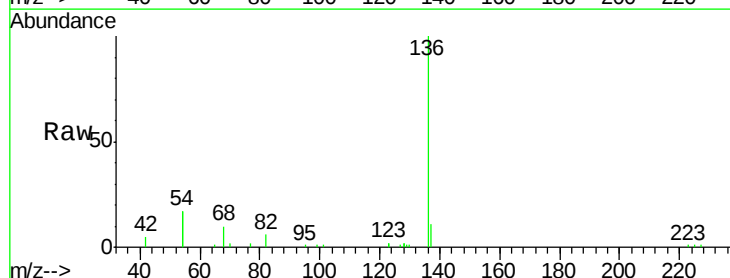
Ion Ratio Lower Upper

136 100

137 11.1 11.4 17.0#

54 34.4 39.3 58.9#

68 9.8 6.7 10.1

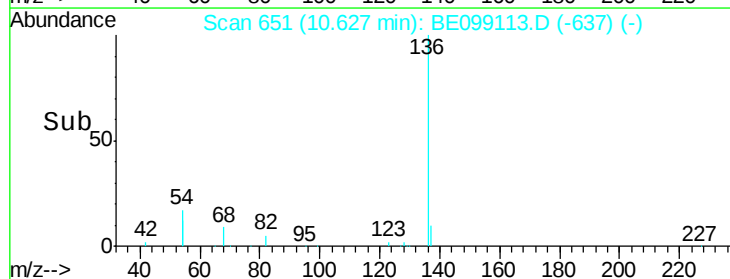
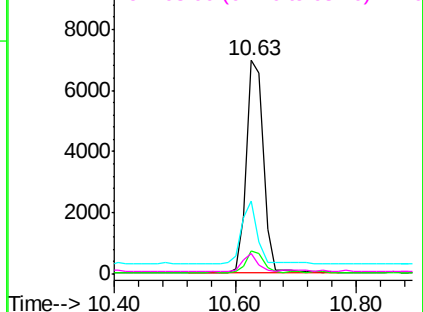


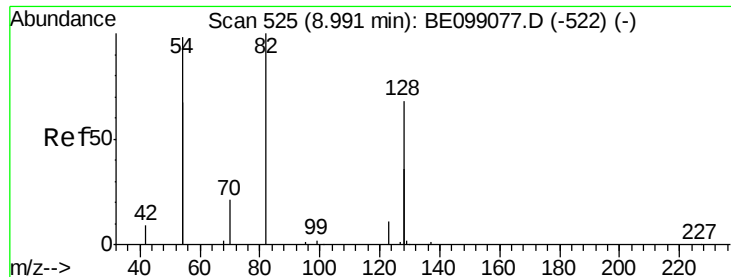
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.647 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

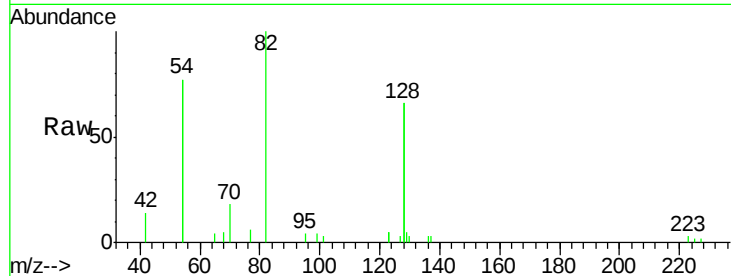
Tgt Ion: 82 Resp: 3778

Ion Ratio Lower Upper

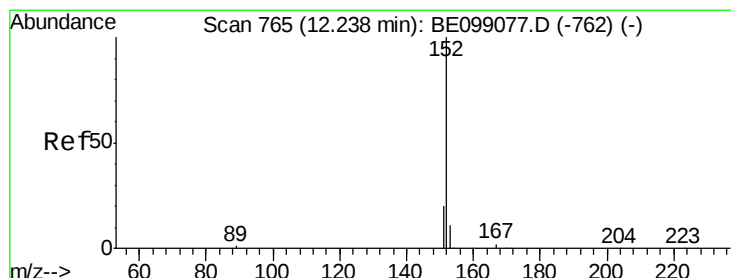
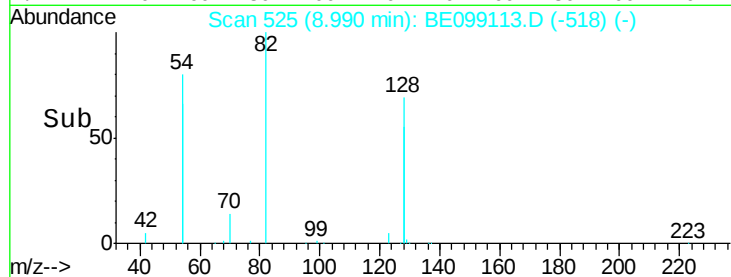
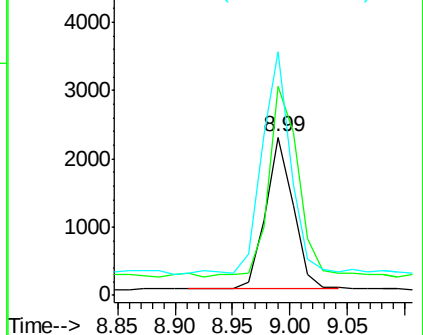
82 100

128 132.1 123.8 185.8

54 153.8 203.4 305.2#



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: 0.365 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.01 min

Lab File: BE099113.D

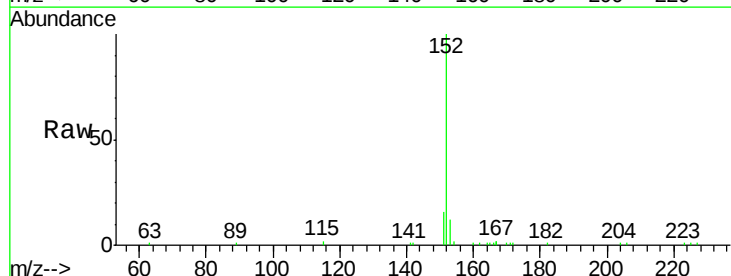
Acq: 23 Mar 2019 15:48

Tgt Ion: 152 Resp: 8771

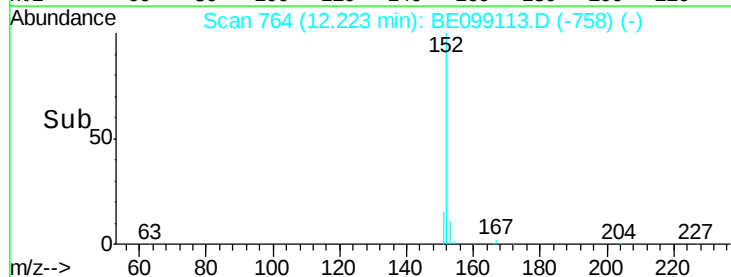
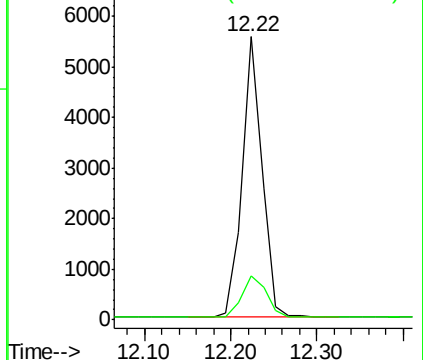
Ion Ratio Lower Upper

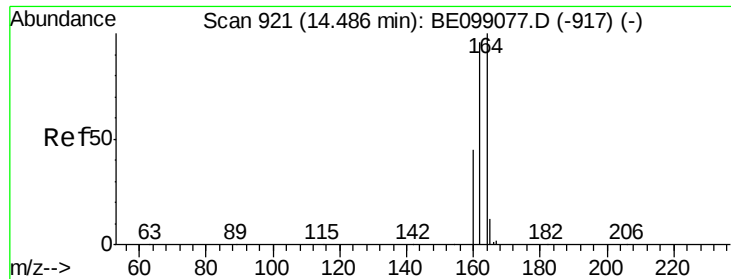
152 100

151 18.2 16.5 24.7



Abundance Ion 152.00 (151.70 to 152.70): BE
Ion 151.00 (150.70 to 151.70): BE

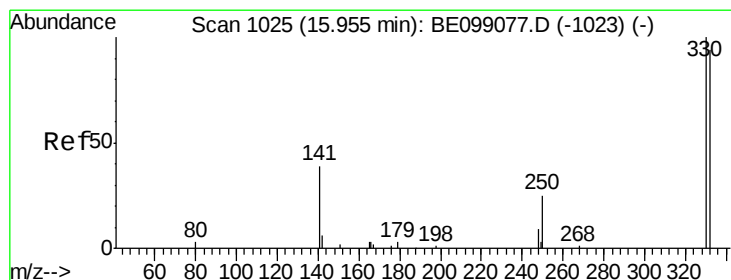
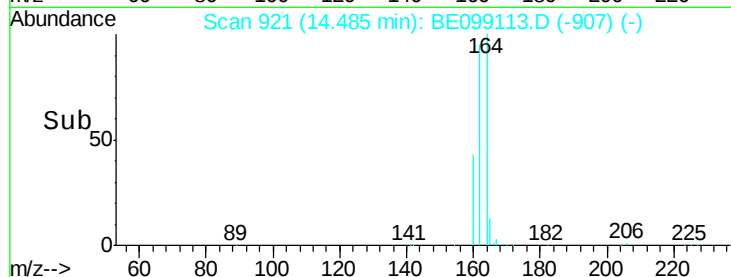
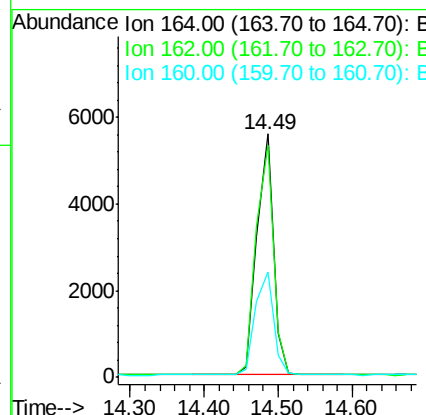
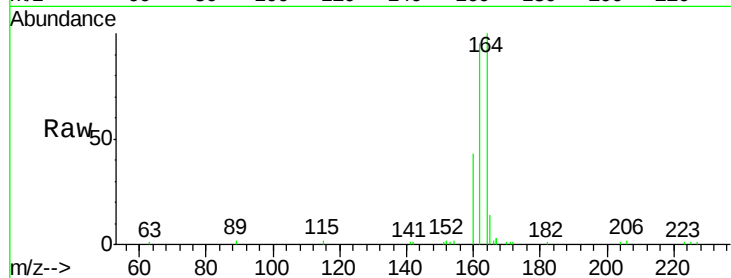




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

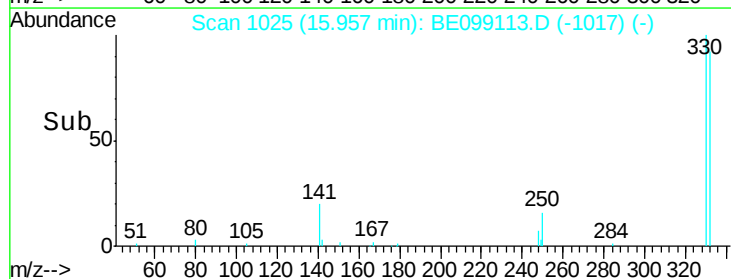
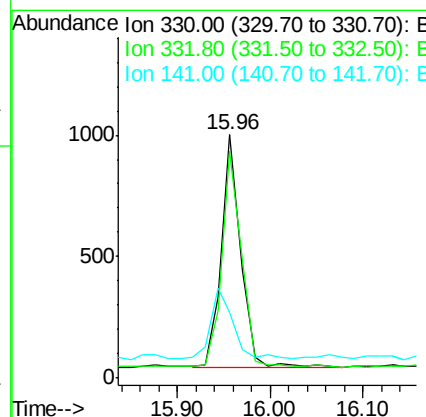
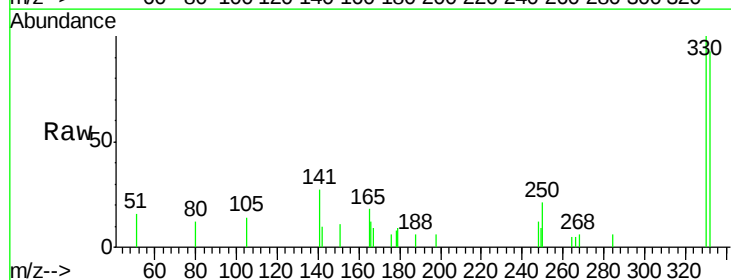
Instrument :
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PST-026-SW074-031919

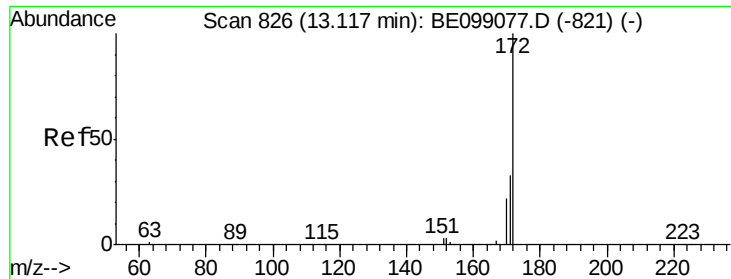
Tgt Ion:164 Resp: 8689
Ion Ratio Lower Upper
164 100
162 95.4 80.2 120.2
160 43.5 37.8 56.8



#14
2,4,6-Tribromophenol
Concen: 0.543 ng
RT: 15.96 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

Tgt Ion:330 Resp: 1386
Ion Ratio Lower Upper
330 100
332 93.4 77.6 116.4
141 35.0 31.0 46.4

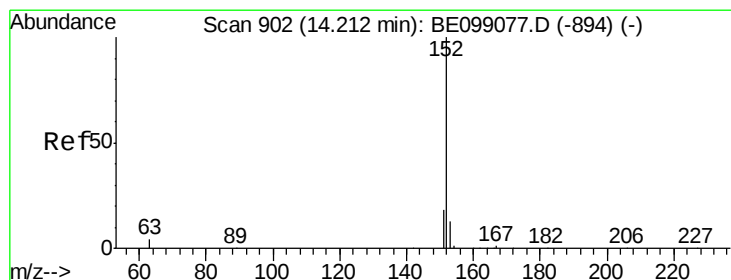
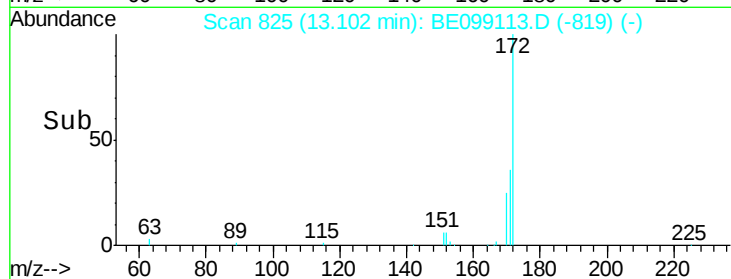
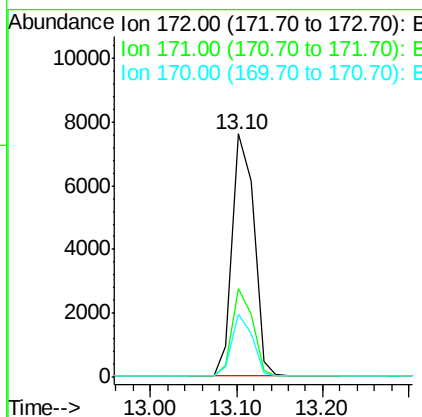
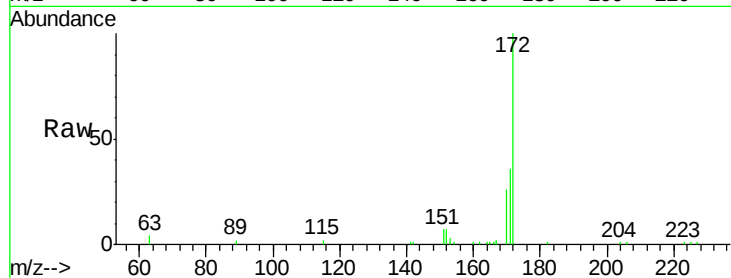




#15
2-Fluorobiphenyl
Concen: 0.379 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

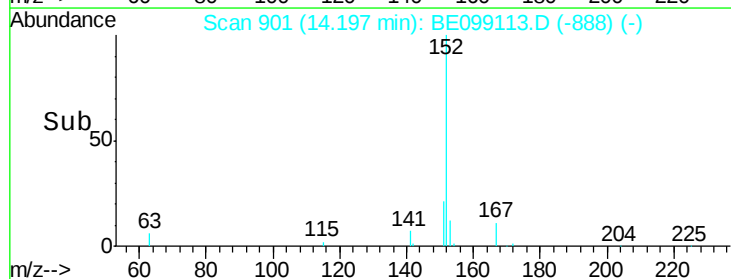
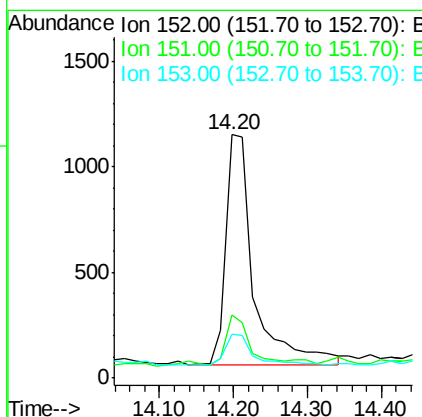
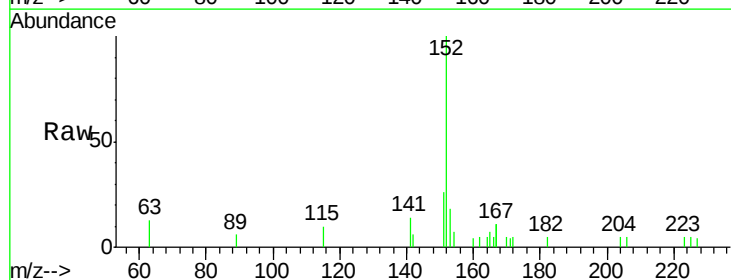
Instrument :
BNA_E
ClientSampleId :
PST-026-SW074-031919

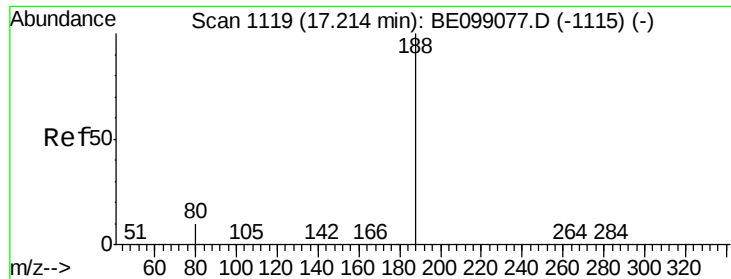
Tgt Ion:172 Resp: 13081
Ion Ratio Lower Upper
172 100
171 36.3 28.0 42.0
170 25.9 17.7 26.5



#16
Acenaphthylene
Concen: 0.063 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE099113.D
Acq: 23 Mar 2019 15:48

Tgt Ion:152 Resp: 2924
Ion Ratio Lower Upper
152 100
151 17.4 17.0 25.6
153 12.6 11.2 16.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

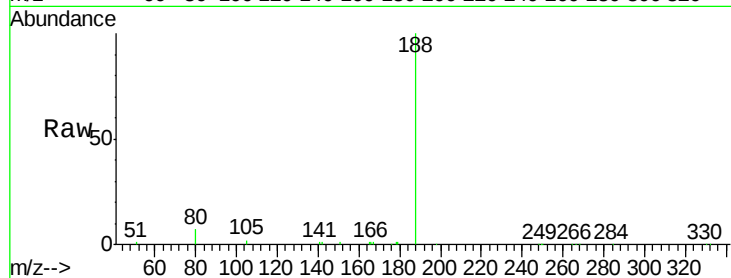
Tgt Ion:188 Resp: 24428

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

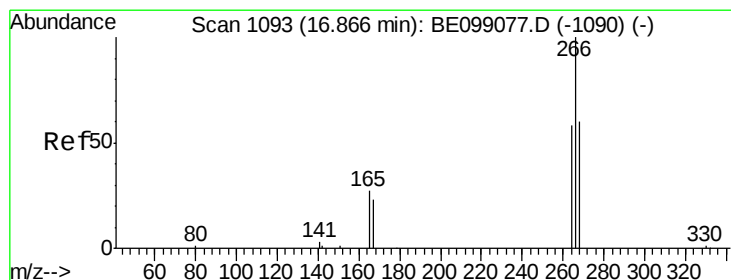
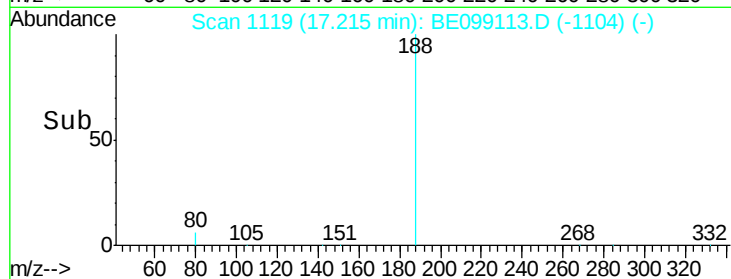
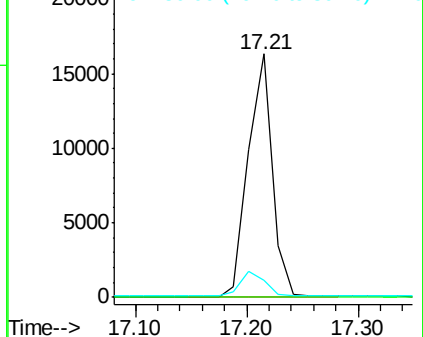
80 6.8 6.3 9.5



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: 0.260 ng

RT: 16.85 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

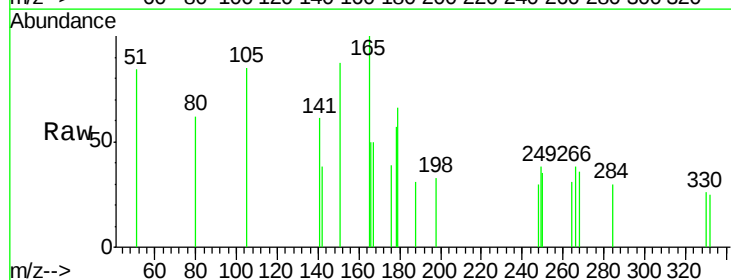
Tgt Ion:266 Resp: 47

Ion Ratio Lower Upper

266 100

264 82.4 66.6 100.0

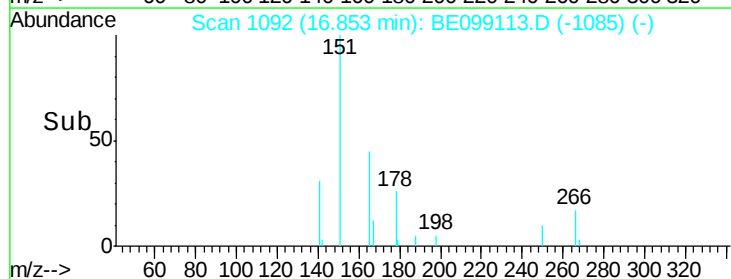
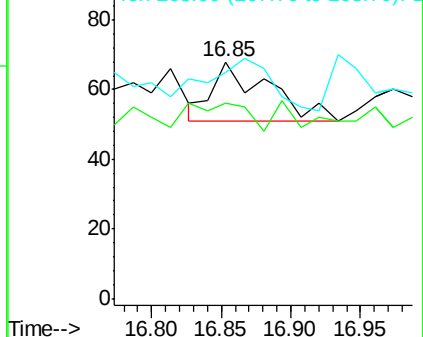
268 95.6 69.8 104.8

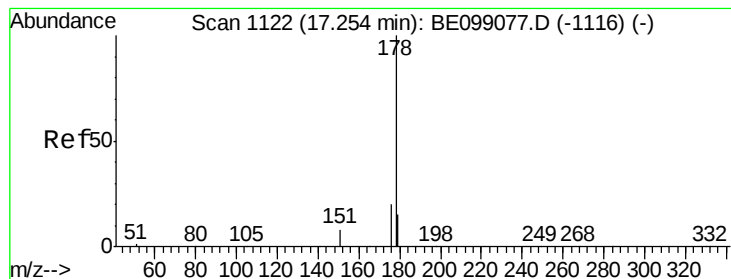


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.213 ng

RT: 17.26 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

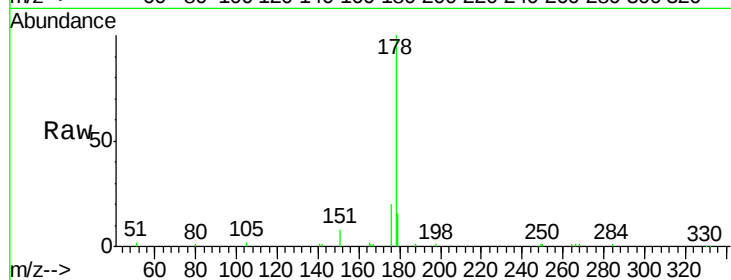
Tgt Ion:178 Resp: 15446

Ion Ratio Lower Upper

178 100

176 19.6 16.0 24.0

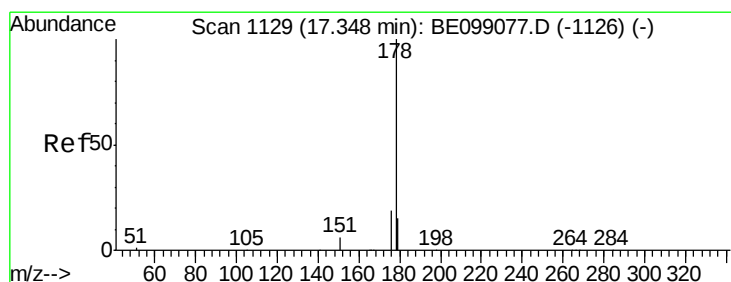
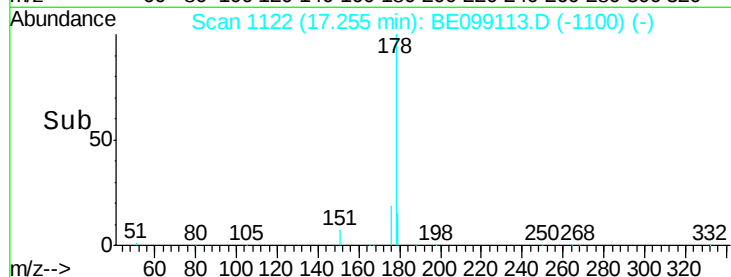
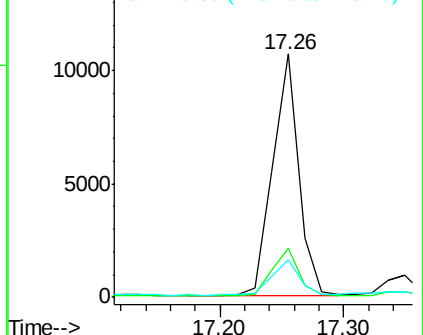
179 16.0 12.1 18.1



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: 17.35 min Scan# 1129

Delta R.T. 0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

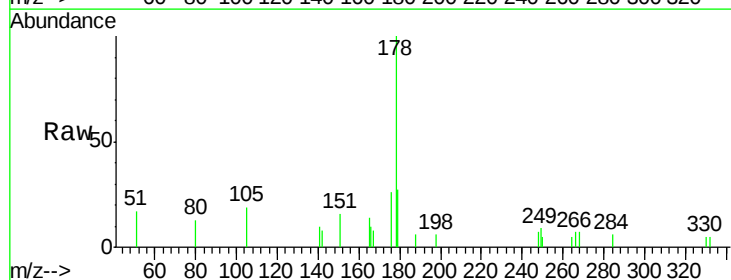
Tgt Ion:178 Resp: 1811

Ion Ratio Lower Upper

178 100

176 21.0 15.4 23.0

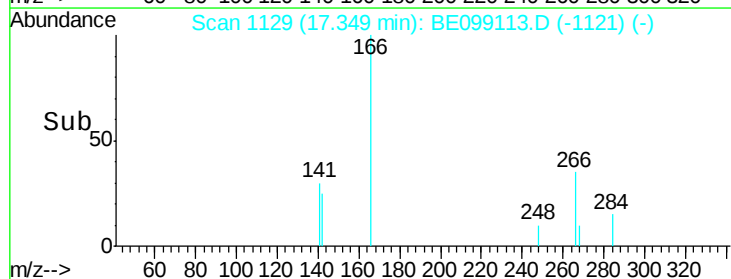
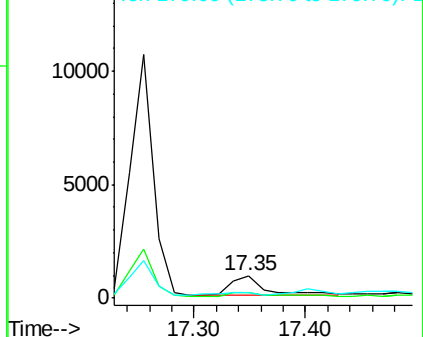
179 12.4 12.2 18.4

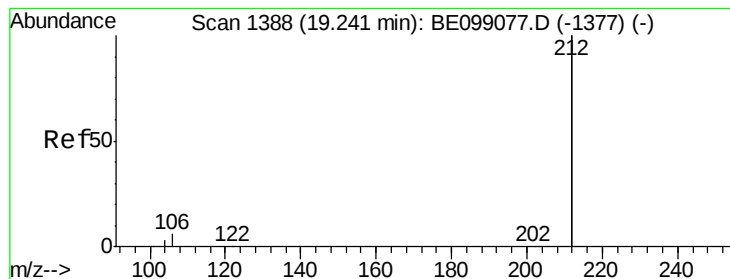


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

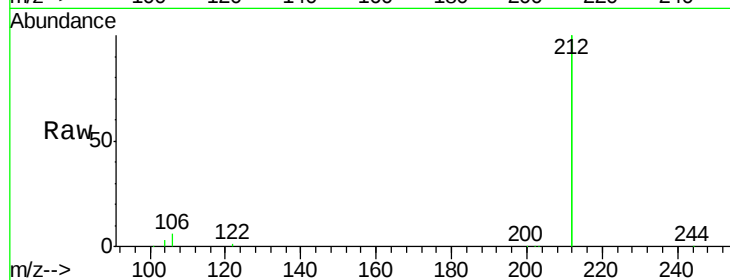
Tgt Ion:212 Resp: 123251

Ion Ratio Lower Upper

212 100

106 2.7 1.8 2.8

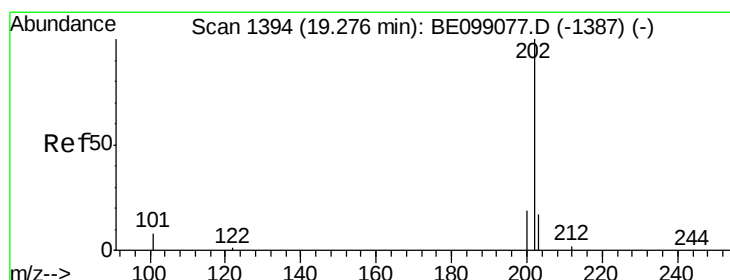
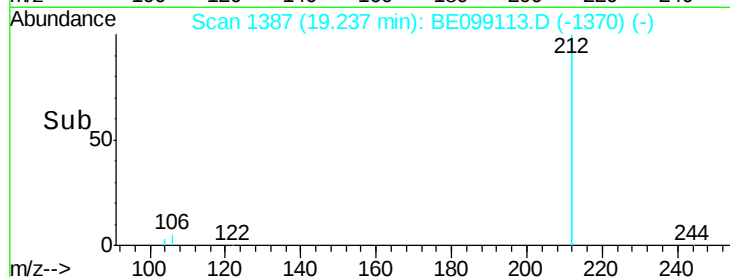
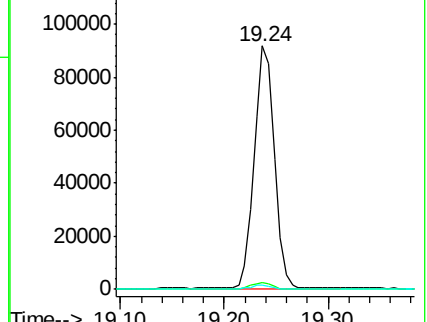
104 1.5 1.0 1.6



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: 0.323 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

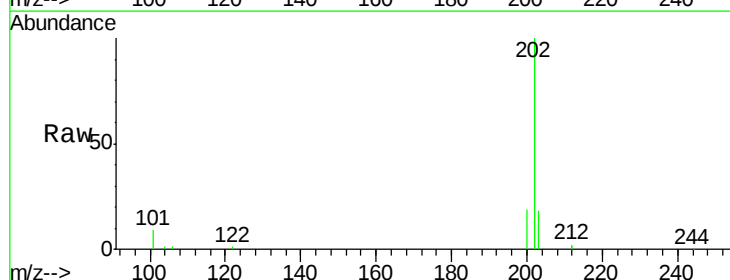
Tgt Ion:202 Resp: 33009

Ion Ratio Lower Upper

202 100

101 10.1 7.3 10.9

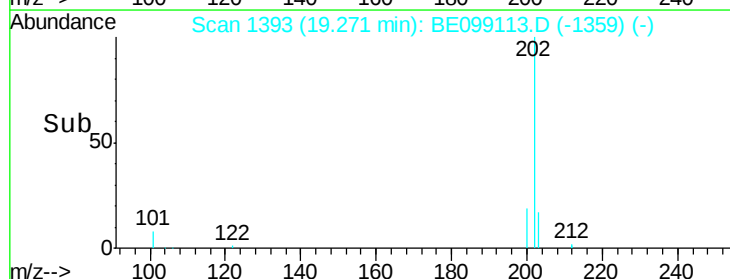
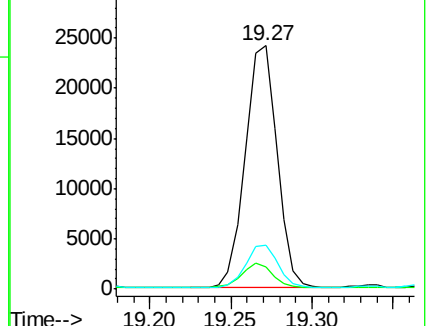
203 17.7 13.4 20.2

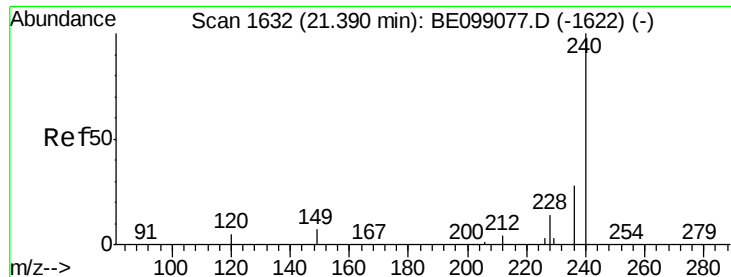


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

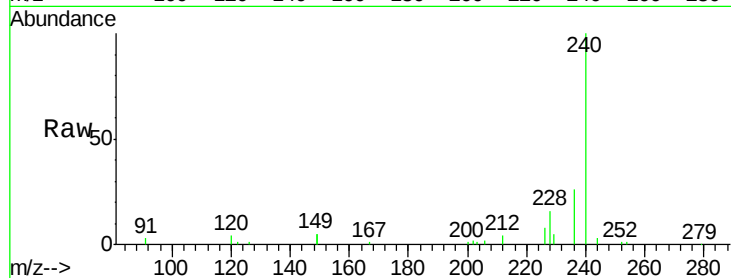




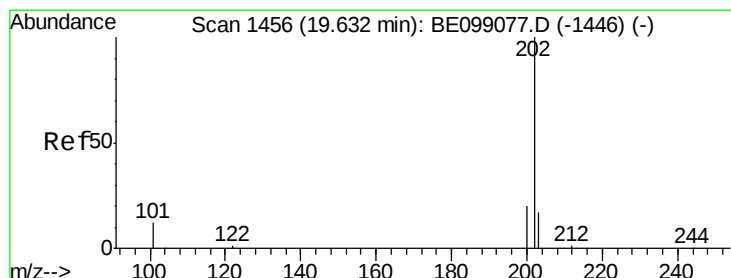
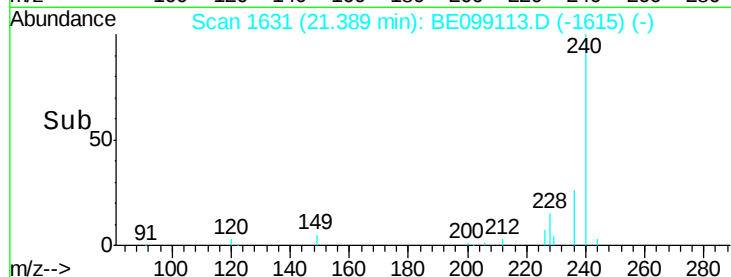
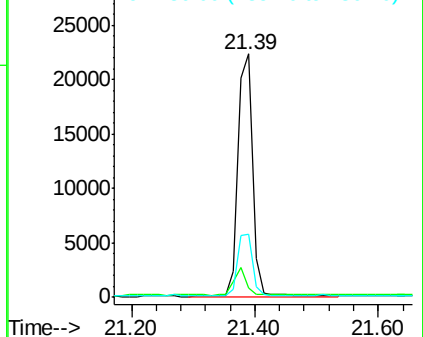
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.39 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: BE099113.D
 Acq: 23 Mar 2019 15:48

Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW074-031919

Tgt Ion:240 Resp: 35829
 Ion Ratio Lower Upper
 240 100
 120 3.9 5.0 7.4#
 236 26.1 22.7 34.1

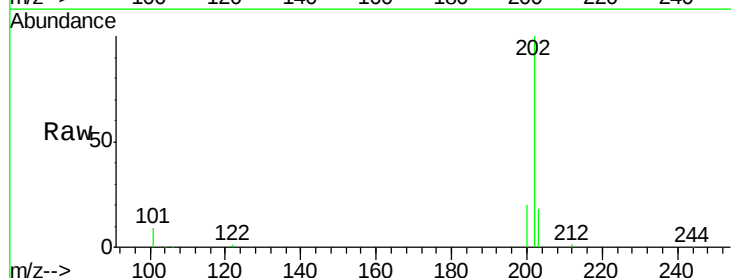


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

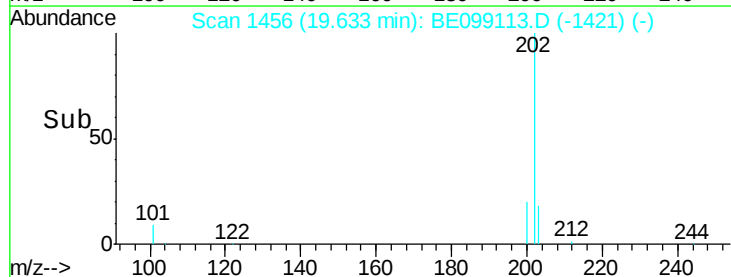
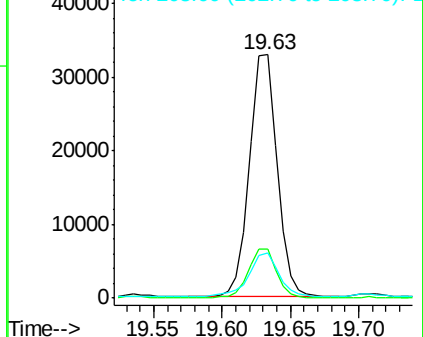


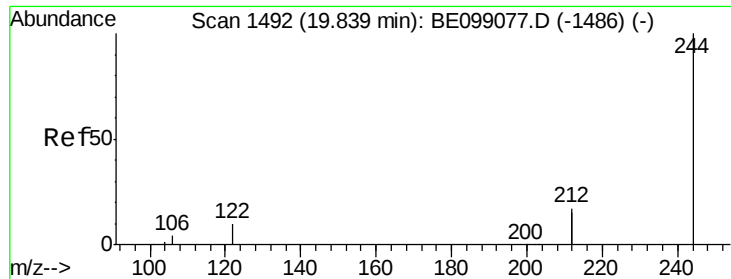
#28
 Pyrene
 Concen: 0.379 ng
 RT: 19.63 min Scan# 1456
 Delta R.T. 0.00 min
 Lab File: BE099113.D
 Acq: 23 Mar 2019 15:48

Tgt Ion:202 Resp: 46044
 Ion Ratio Lower Upper
 202 100
 200 20.1 17.0 25.6
 203 20.1 14.2 21.2



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: 0.319 ng

RT: 19.83 min Scan# 1491

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

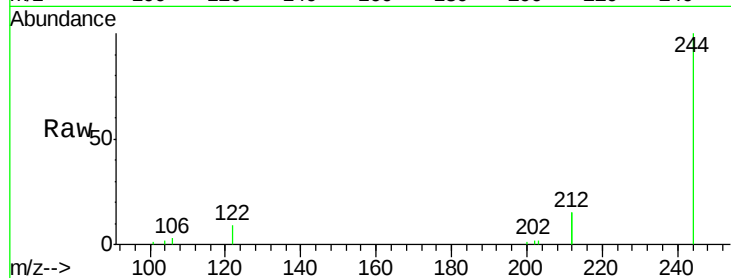
Tgt Ion:244 Resp: 24152

Ion Ratio Lower Upper

244 100

212 30.6 29.4 44.2

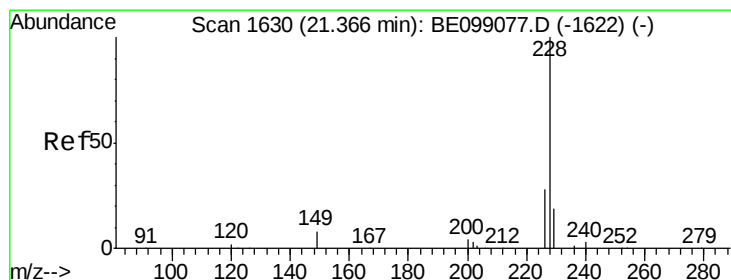
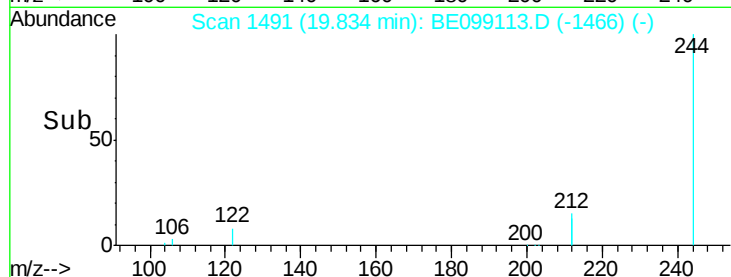
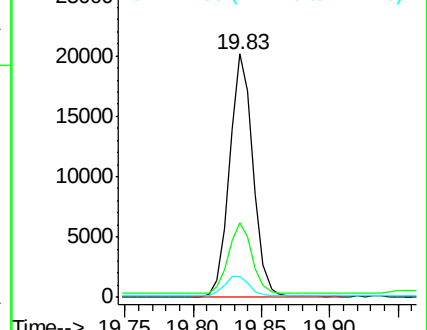
122 8.7 7.1 10.7



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: 0.209 ng

RT: 21.37 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

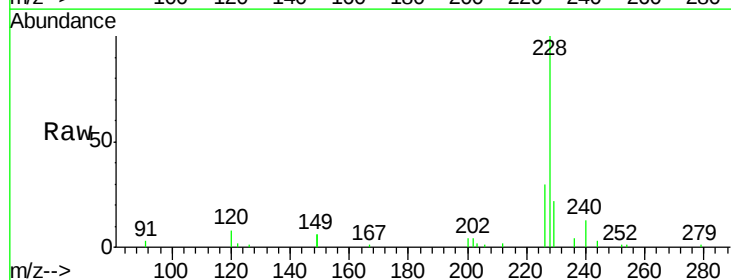
Tgt Ion:228 Resp: 26403

Ion Ratio Lower Upper

228 100

226 29.6 23.0 34.4

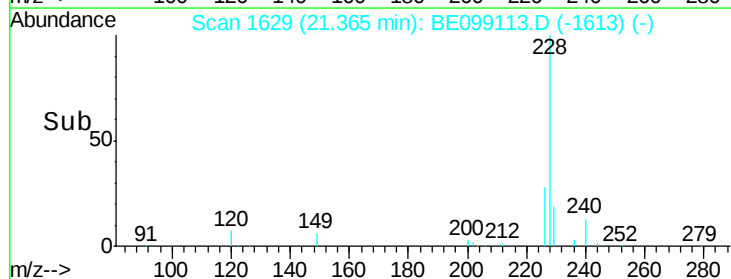
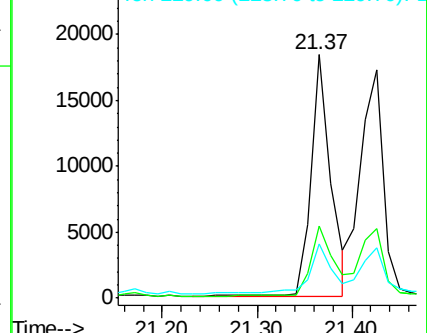
229 22.5 16.5 24.7

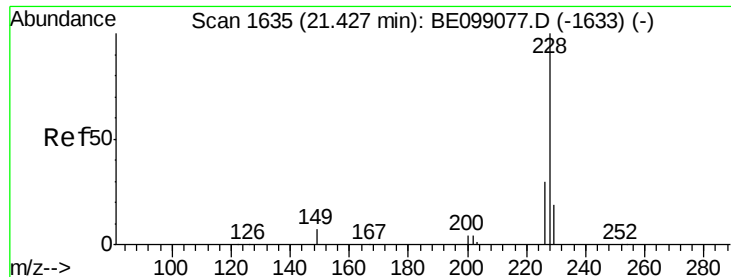


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.224 ng

RT: 21.43 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

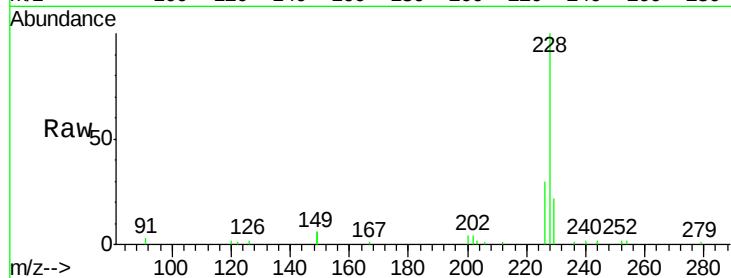
Tgt Ion:228 Resp: 28298

Ion Ratio Lower Upper

228 100

226 30.2 23.7 35.5

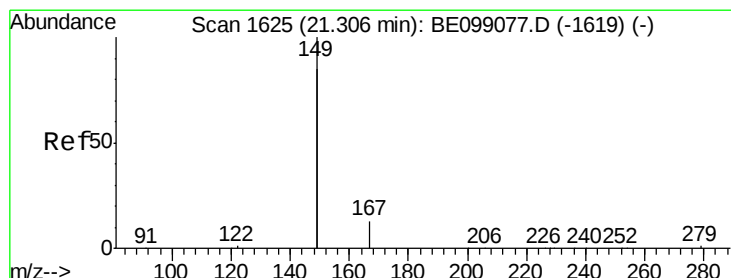
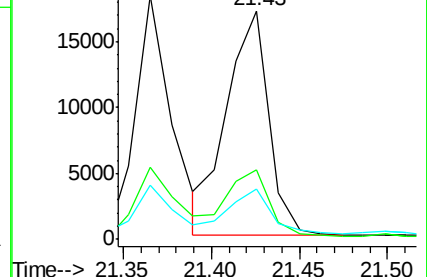
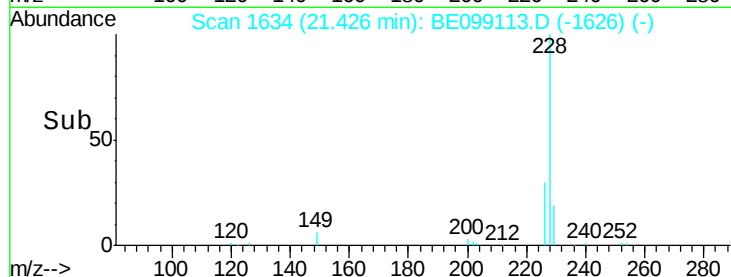
229 22.2 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

RT: 21.29 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

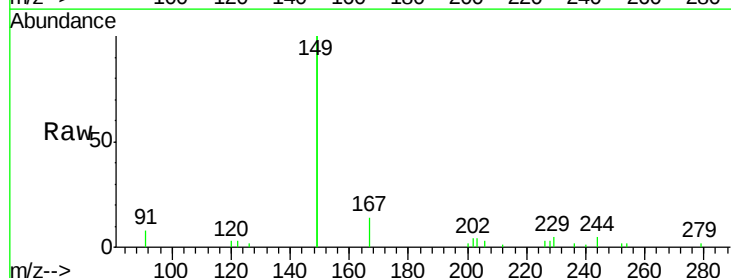
Tgt Ion:149 Resp: 16936

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

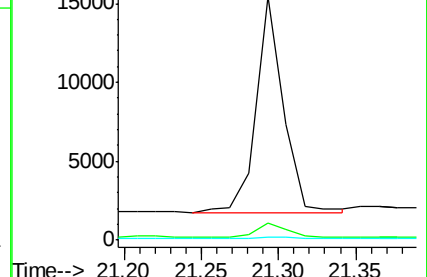
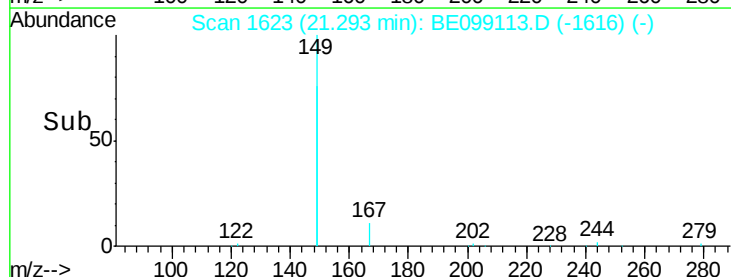
279 1.0 1.0 1.4

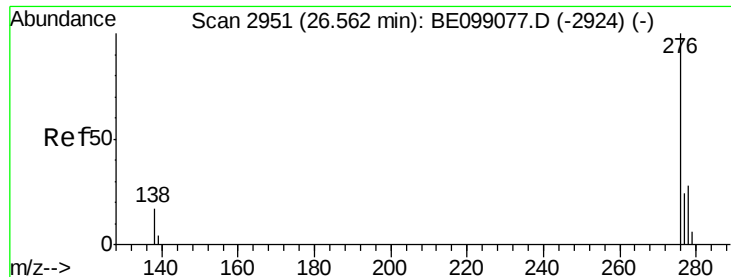


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.093 ng

RT: 26.54 min Scan# 2945

Delta R.T. -0.02 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

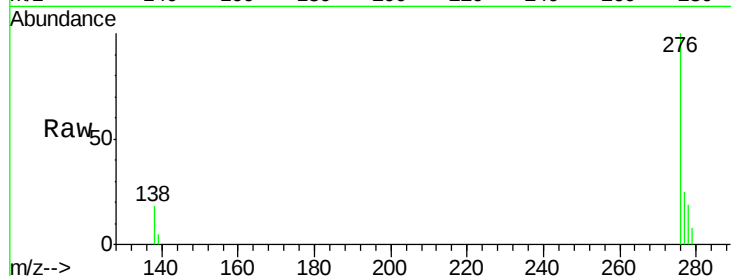
Tgt Ion:276 Resp: 12603

Ion Ratio Lower Upper

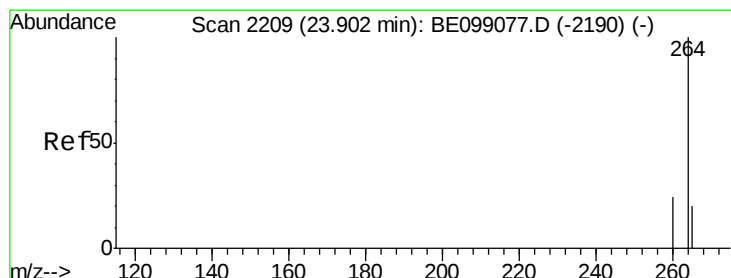
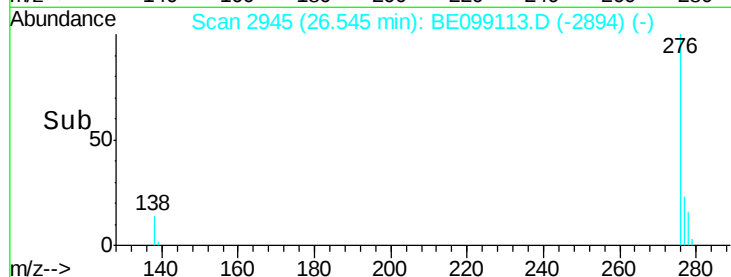
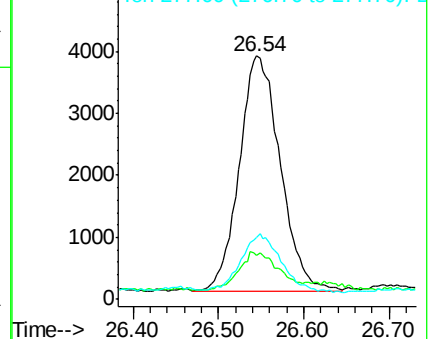
276 100

138 16.1 13.8 20.8

277 24.6 19.5 29.3



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: 23.90 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

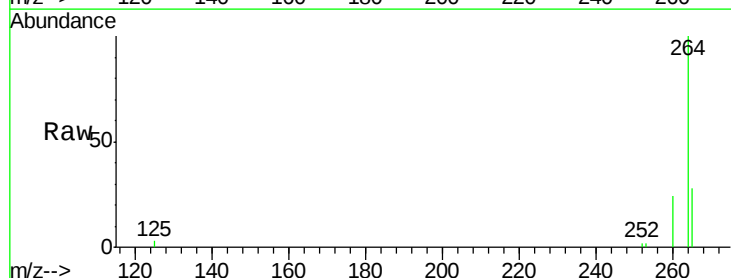
Tgt Ion:264 Resp: 37710

Ion Ratio Lower Upper

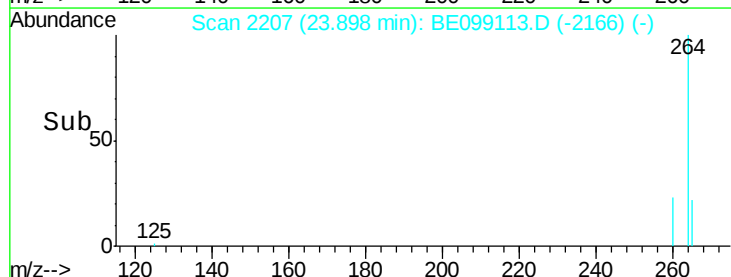
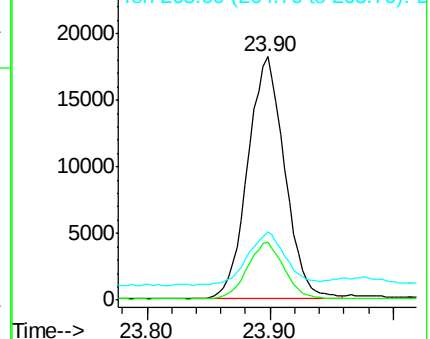
264 100

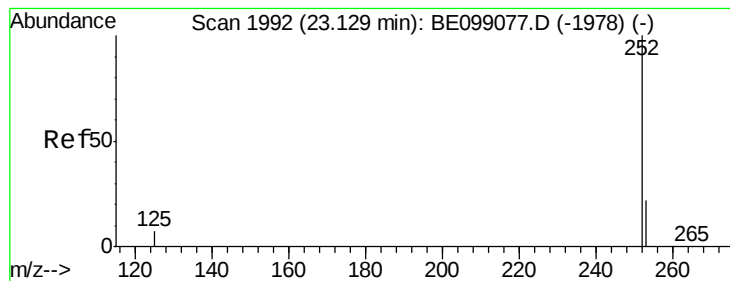
260 23.6 21.2 31.8

265 27.8 24.6 36.8



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: 0.212 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.00 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

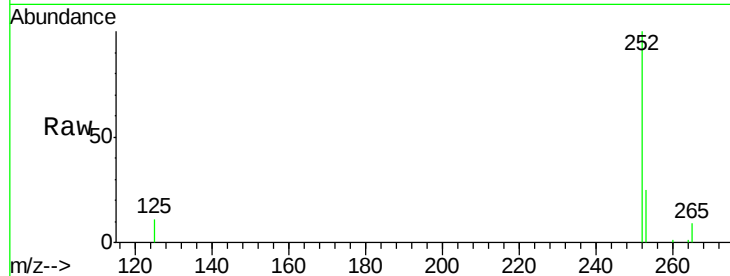
Tgt Ion:252 Resp: 27695

Ion Ratio Lower Upper

252 100

253 24.8 18.2 27.2

125 10.9 7.3 10.9

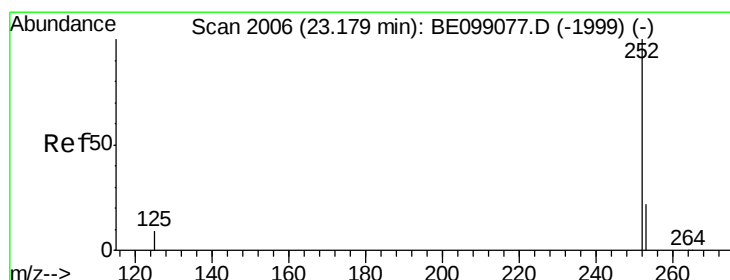
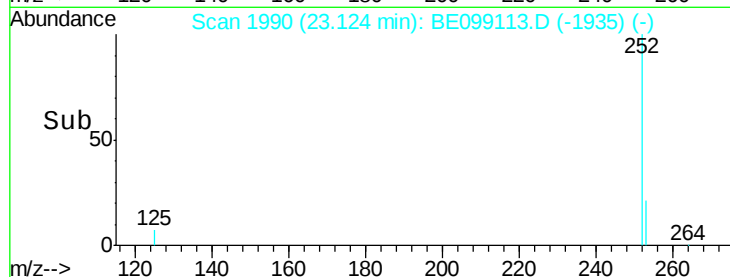
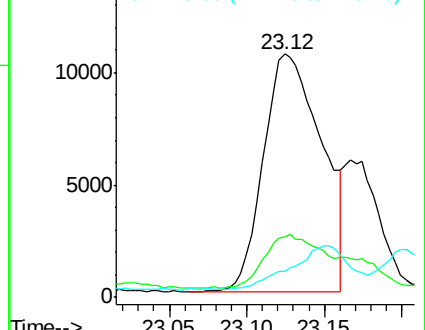


Abundance

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: 0.217 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.05 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

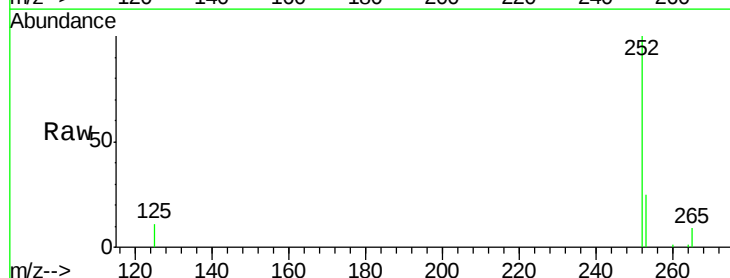
Tgt Ion:252 Resp: 27695

Ion Ratio Lower Upper

252 100

253 24.8 19.3 28.9

125 10.9 7.5 11.3

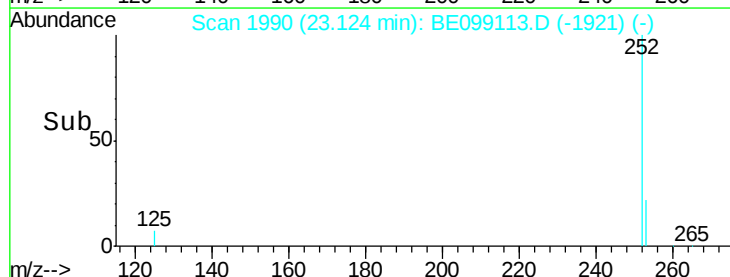
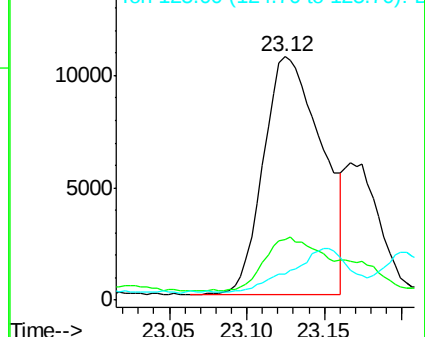


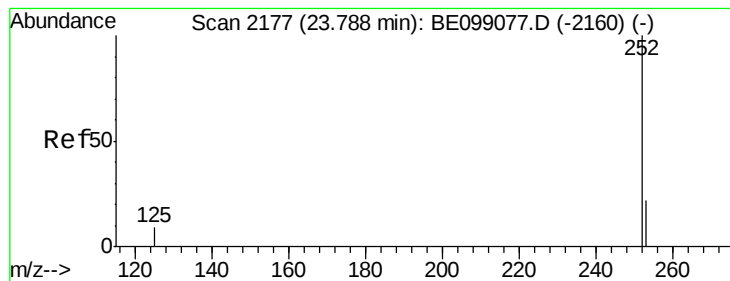
Abundance

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: 0.180 ng

RT: 23.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919

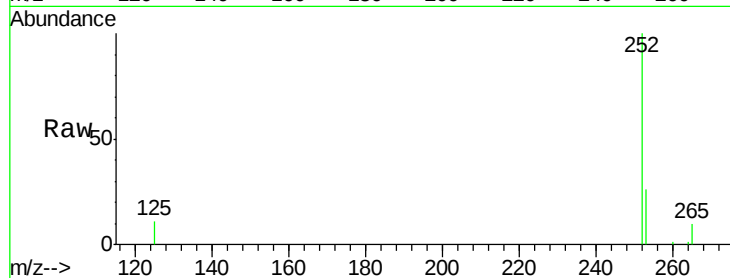
Tgt Ion:252 Resp: 21747

Ion Ratio Lower Upper

252 100

253 26.0 19.9 29.9

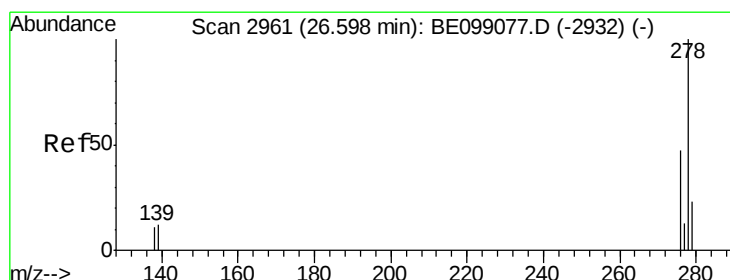
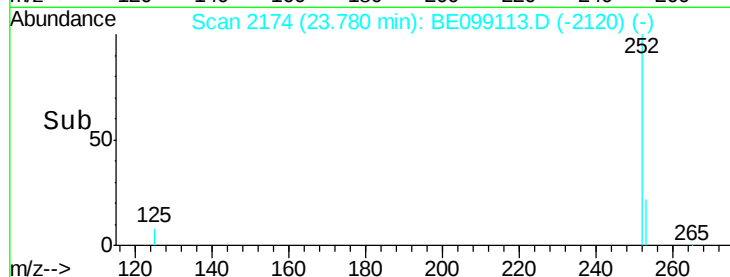
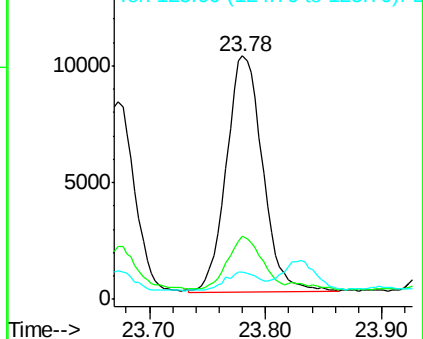
125 11.2 9.0 13.4



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



#38

Dibenzo(a,h)anthracene

Concen: 0.030 ng

RT: 26.57 min Scan# 2952

Delta R.T. -0.03 min

Lab File: BE099113.D

Acq: 23 Mar 2019 15:48

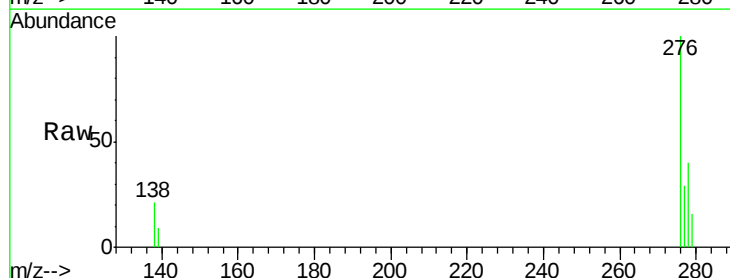
Tgt Ion:278 Resp: 3501

Ion Ratio Lower Upper

278 100

139 22.2 11.8 17.6#

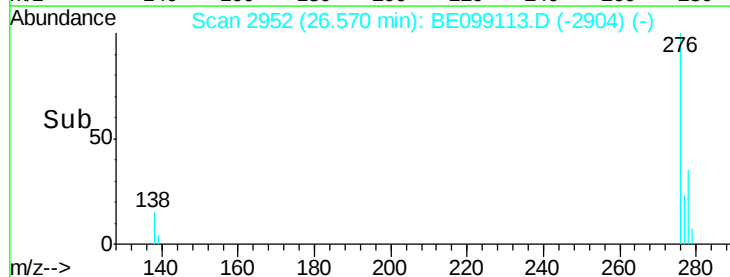
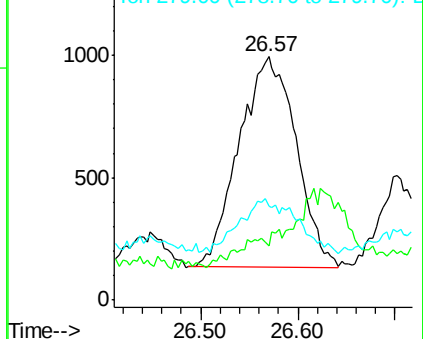
279 38.7 21.1 31.7#

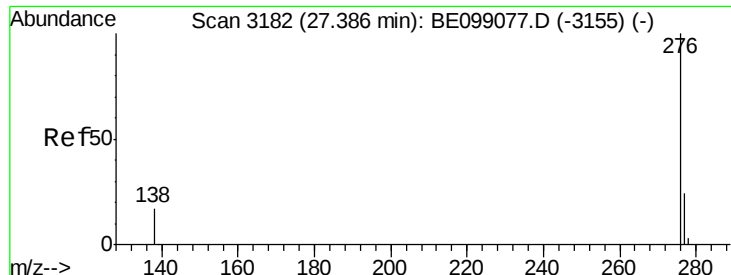


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.119 ng

RT: 27.37 min Scan# 3176

Delta R.T. -0.02 min

Lab File: BE099113.D

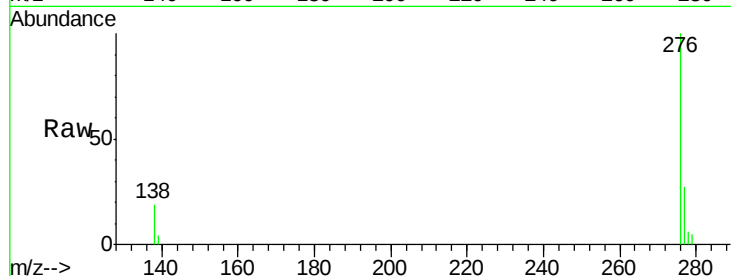
Acq: 23 Mar 2019 15:48

Instrument :

BNA_E

ClientSampleId :

PST-026-SW074-031919



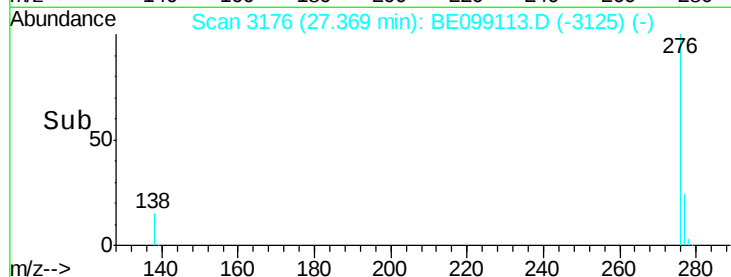
Tgt Ion: 276 Resp: 14292

Ion Ratio Lower Upper

276 100

277 26.6 20.4 30.6

138 18.8 13.6 20.4



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

