

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032319\
 Data File : BE099127.D
 Acq On : 24 Mar 2019 1:15
 Operator : JU/SJ
 Sample : K2014-20
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW078-031919

Quant Time: Mar 24 03:42:33 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	3438	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	13437	0.40	ng	-0.01
13) Acenaphthene-d10	14.48	164	8944	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	26233	0.40	ng	0.00
27) Chrysene-d12	21.38	240	38912	0.40	ng	-0.01
34) Perylene-d12	23.89	264	42607	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	4219	0.41	ng	0.00
5) Phenol-d6	6.99	99	5928	0.40	ng	0.00
8) Nitrobenzene-d5	8.99	82	4173	0.71	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	8826	0.36	ng	-0.02
14) 2,4,6-Tribromophenol	15.96	330	1634	0.62	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	12553	0.35	ng	-0.02
25) Fluoranthene-d10	19.24	212	132999	0.38	ng	0.00
29) Terphenyl-d14	19.83	244	22850	0.28	ng	0.00

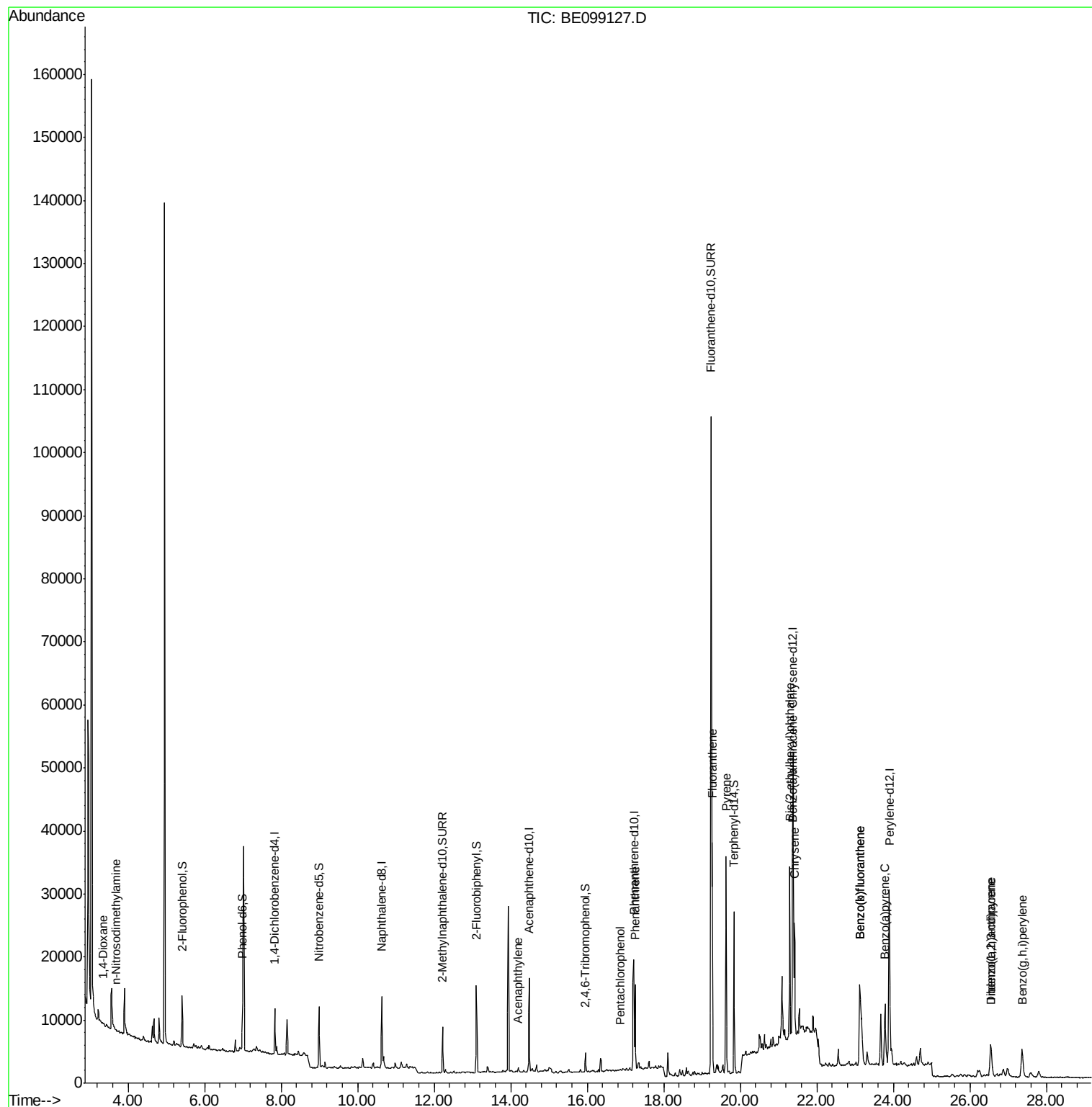
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.34	88	180	0.034	ng	# 26
3) n-Nitrosodimethylamine	3.69	42	294	0.107	ng	# 1
16) Acenaphthylene	14.20	152	961	0.020	ng	95
22) Pentachlorophenol	16.87	266	31	0.257	ng	88
23) Phenanthrene	17.25	178	14211	0.182	ng	99
26) Fluoranthene	19.27	202	32163	0.293	ng	98
28) Pyrene	19.63	202	31600	0.239	ng	95
30) Benzo(a)anthracene	21.37	228	17900	0.131	ng	98
31) Chrysene	21.42	228	18760	0.137	ng	95
32) Bis(2-ethylhexyl)phthalate	21.29	149	28462	0.160	ng	98
33) Indeno(1,2,3-cd)pyrene	26.54	276	10639	0.072	ng	# 85
35) Benzo(b)fluoranthene	23.12	252	24246	0.165	ng	# 90
36) Benzo(k)fluoranthene	23.12	252	24246	0.168	ng	# 93
37) Benzo(a)pyrene	23.78	252	16072	0.118	ng	96
38) Dibenzo(a,h)anthracene	26.57	278	2731	0.021	ng	# 61
39) Benzo(g,h,i)perylene	27.37	276	11007	0.081	ng	95

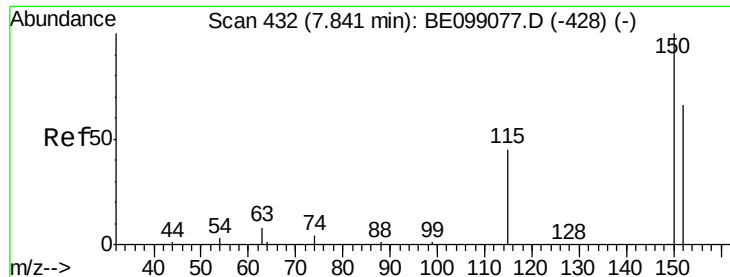
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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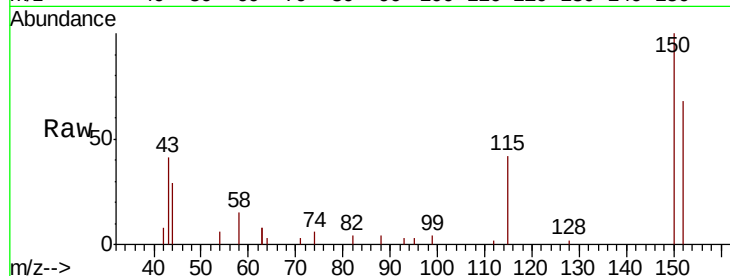


#1

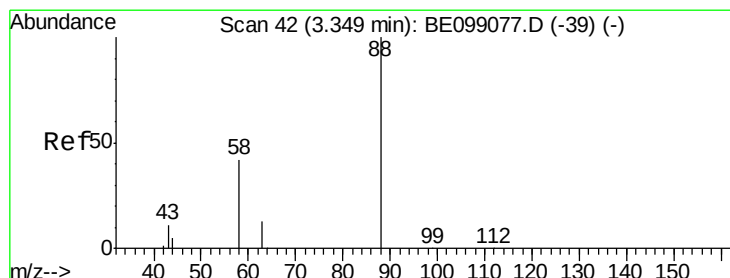
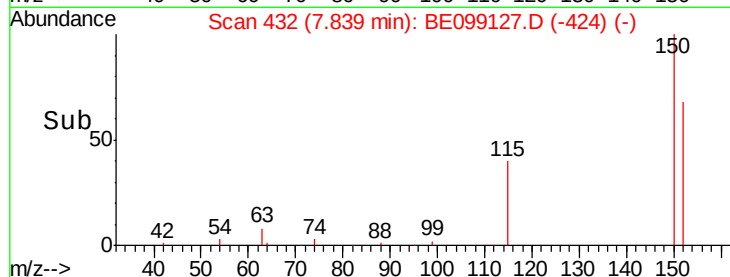
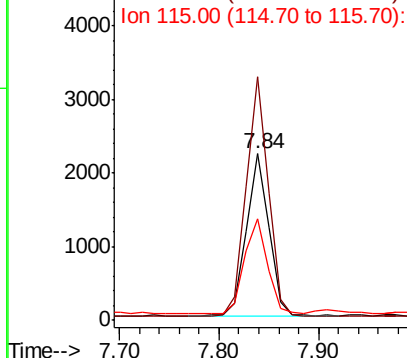
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099127.D
Acq: 24 Mar 2019 1:15

Instrument :
BNA_E
ClientSampleId :
PST-026-SW078-031919

Tgt Ion: 152 Resp: 3438
Ion Ratio Lower Upper
152 100
150 146.3 122.5 183.7
115 61.3 57.4 86.2



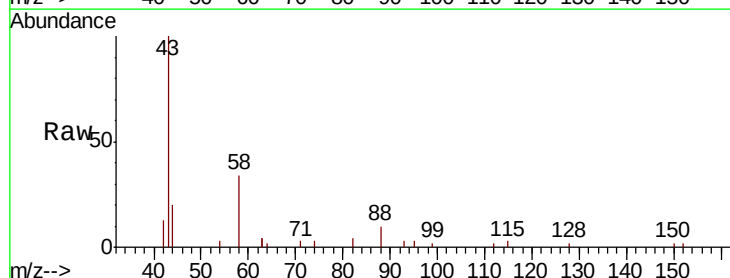
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



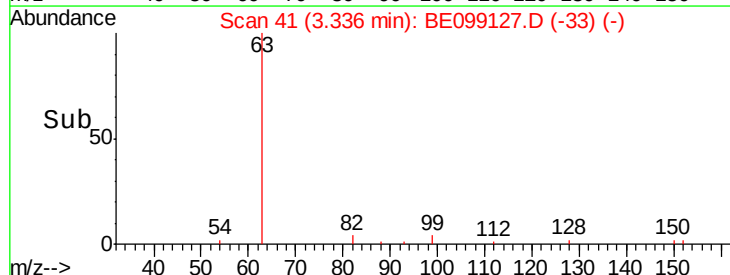
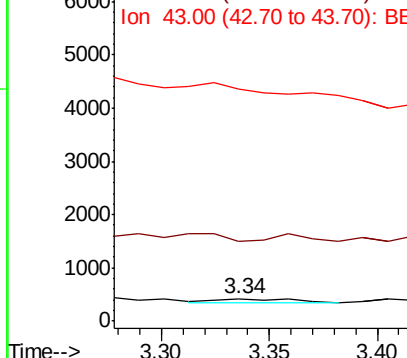
#2

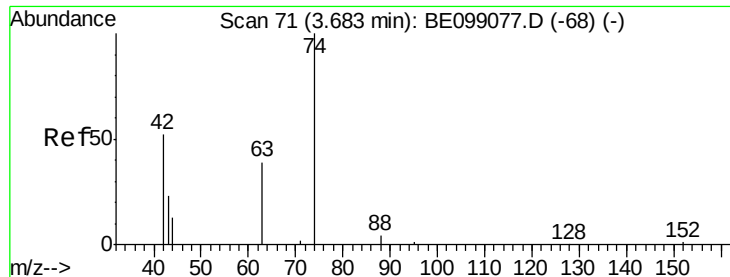
1,4-Dioxane
Concen: 0.034 ng
RT: 3.34 min Scan# 41
Delta R.T. -0.01 min
Lab File: BE099127.D
Acq: 24 Mar 2019 1:15

Tgt Ion: 88 Resp: 180
Ion Ratio Lower Upper
88 100
58 0.0 52.0 78.0#
43 0.0 24.0 36.0#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.107 ng

RT: 3.69 min Scan# 72

Delta R.T. 0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

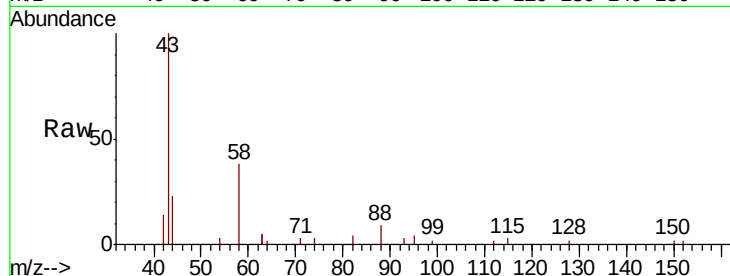
Tgt Ion: 42 Resp: 294

Ion Ratio Lower Upper

42 100

74 0.0 160.0 240.0#

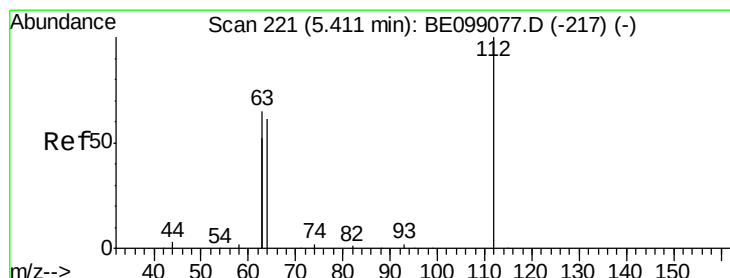
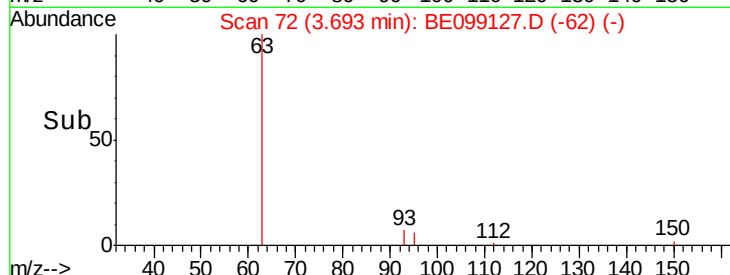
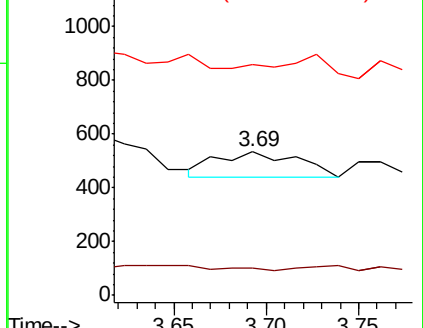
44 0.0 0.0 0.0



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: 0.412 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

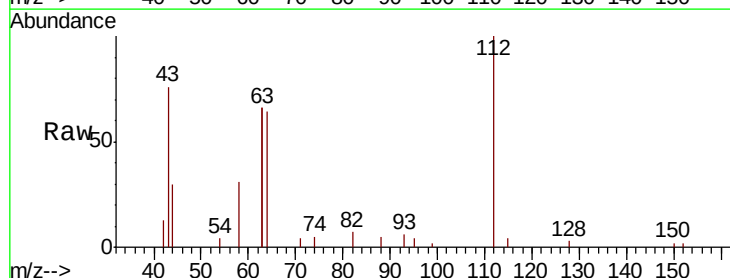
Tgt Ion: 112 Resp: 4219

Ion Ratio Lower Upper

112 100

64 59.2 57.9 86.9

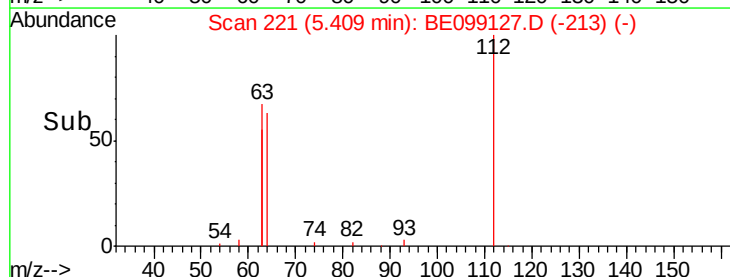
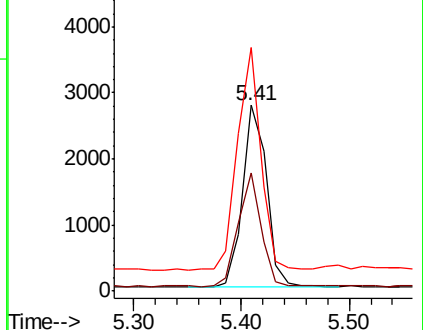
63 118.7 158.3 237.5#

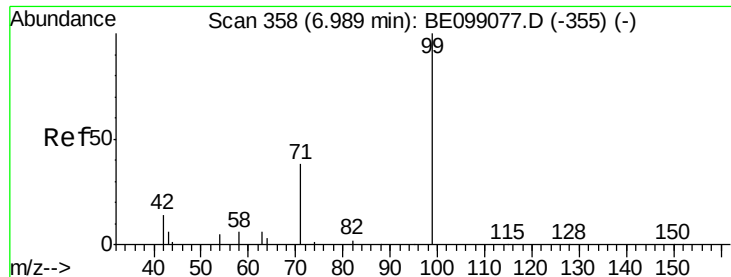


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.402 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

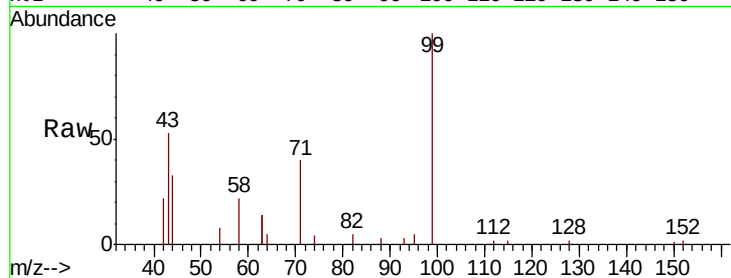
Tgt Ion: 99 Resp: 5928

Ion Ratio Lower Upper

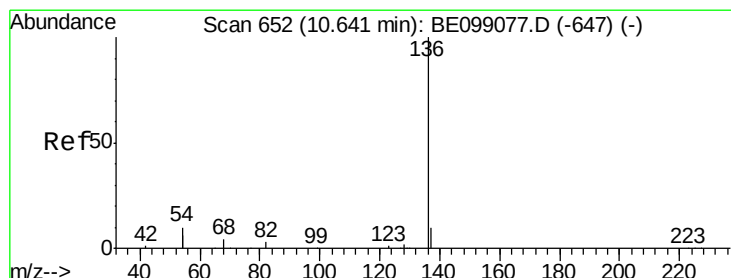
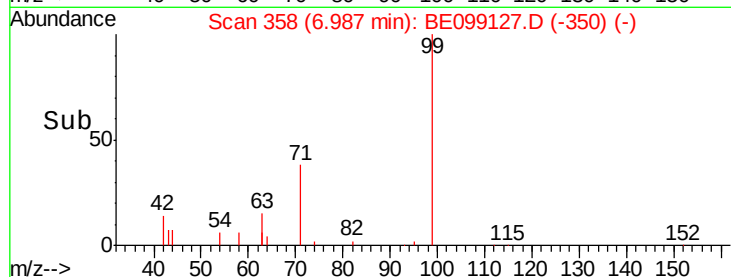
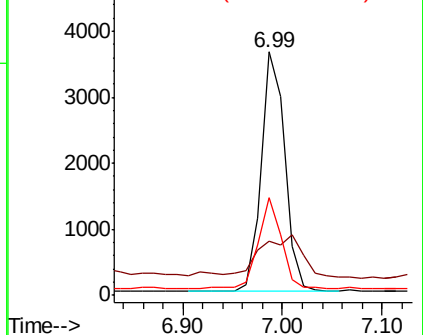
99 100

42 0.0 24.2 36.2#

71 37.4 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: BE099127.D

Acq: 24 Mar 2019 1:15

Tgt Ion: 136 Resp: 13437

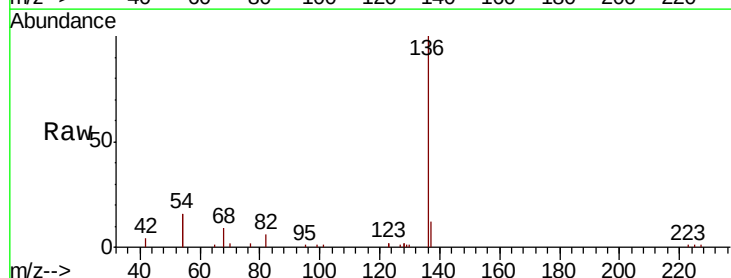
Ion Ratio Lower Upper

136 100

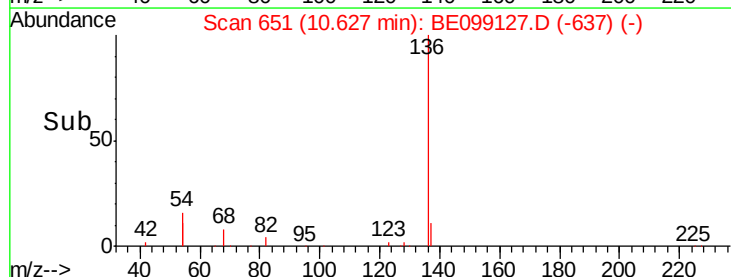
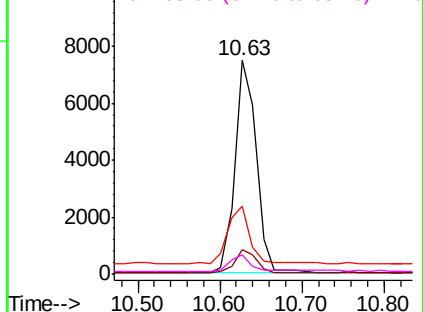
137 11.5 11.4 17.0

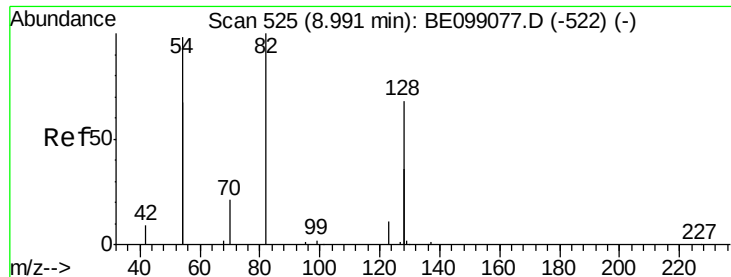
54 32.1 39.3 58.9#

68 8.9 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: 0.710 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

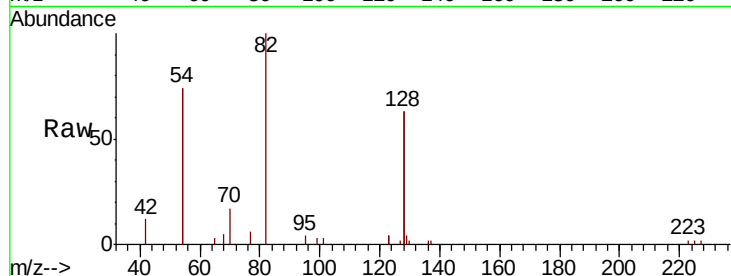
Tgt Ion: 82 Resp: 4173

Ion Ratio Lower Upper

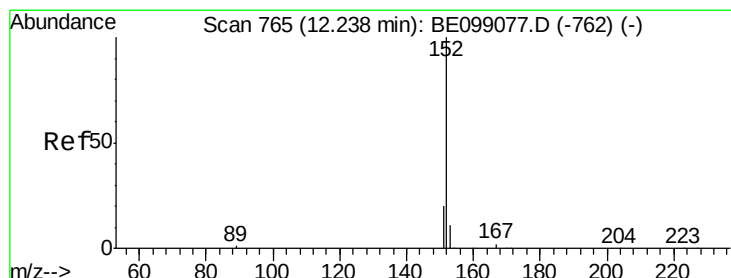
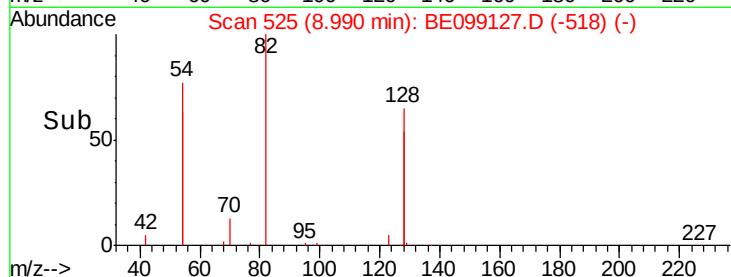
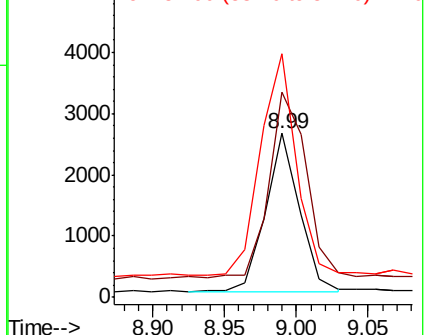
82 100

128 125.2 123.8 185.8

54 148.6 203.4 305.2#



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. -0.02 min

Lab File: BE099127.D

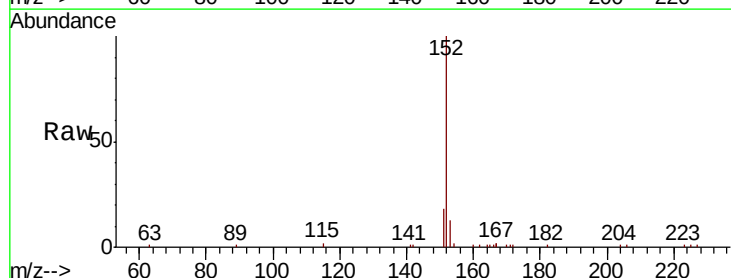
Acq: 24 Mar 2019 1:15

Tgt Ion: 152 Resp: 8826

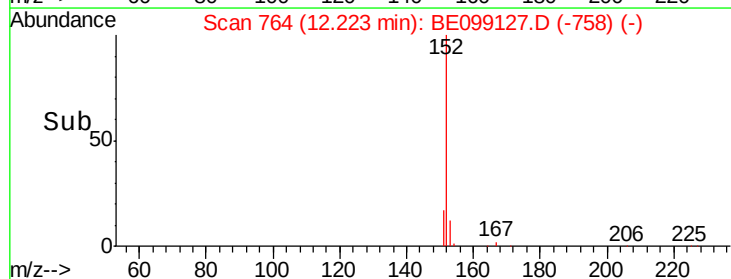
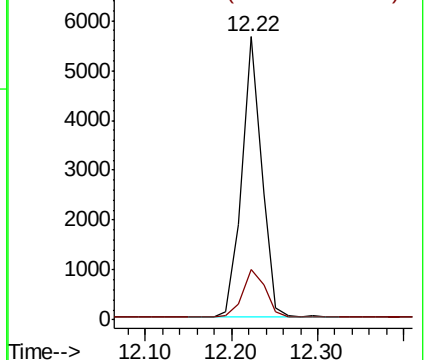
Ion Ratio Lower Upper

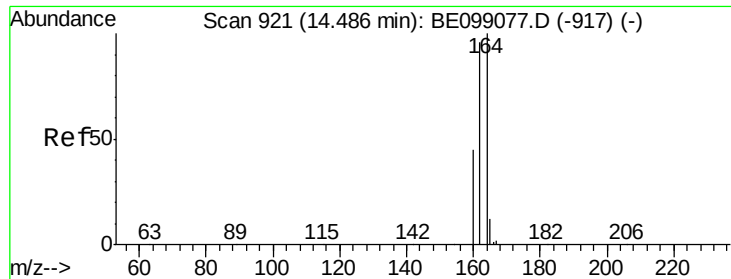
152 100

151 19.9 16.5 24.7



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

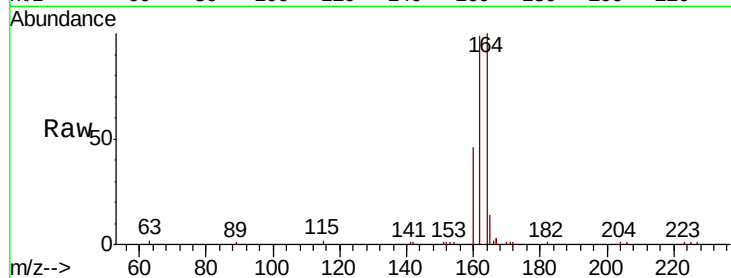




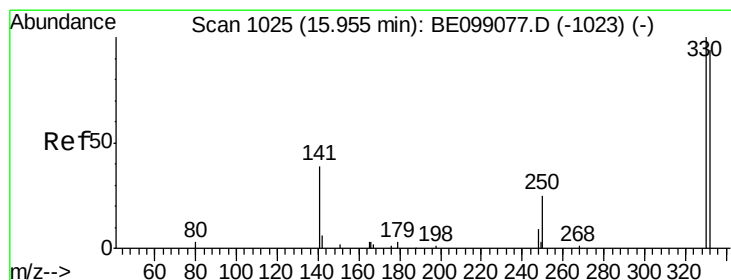
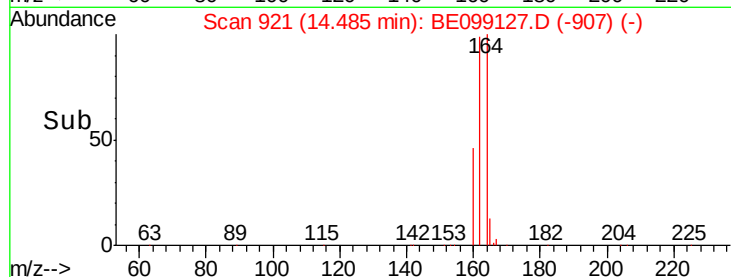
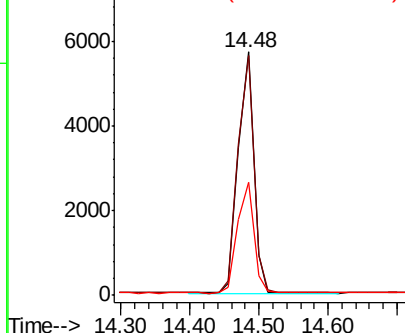
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.48 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

Instrument :
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 PST-026-SW078-031919

Tgt Ion:164 Resp: 8944
 Ion Ratio Lower Upper
 164 100
 162 98.5 80.2 120.2
 160 46.2 37.8 56.8

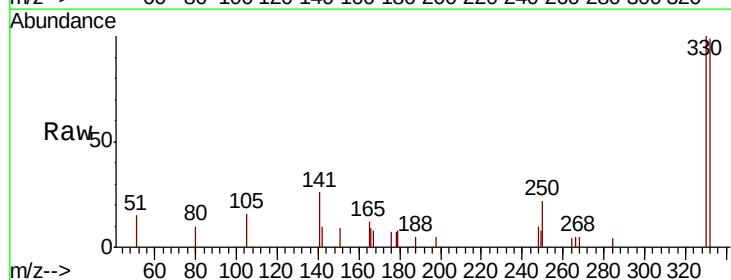


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

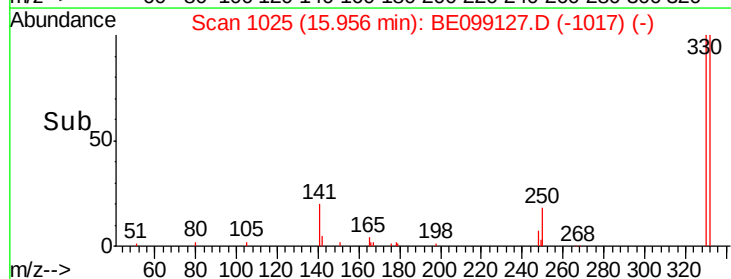
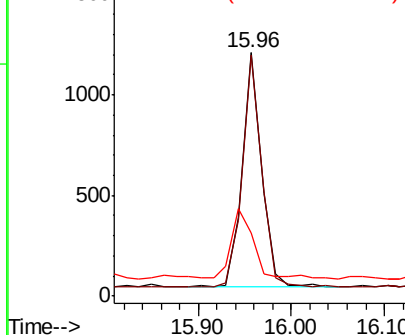


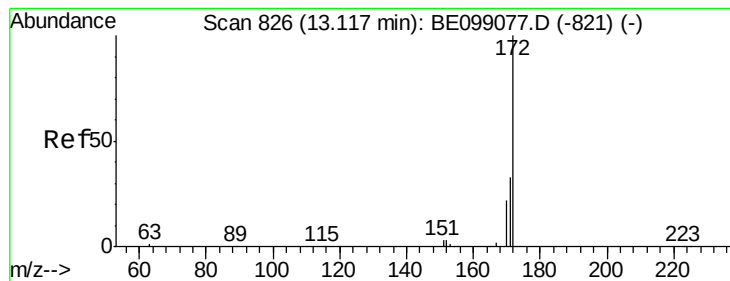
#14
 2,4,6-Tribromophenol
 Concen: 0.621 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

Tgt Ion:330 Resp: 1634
 Ion Ratio Lower Upper
 330 100
 332 100.2 77.6 116.4
 141 35.7 31.0 46.4



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: 0.353 ng

RT: 13.10 min Scan# 825

Delta R.T. -0.02 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

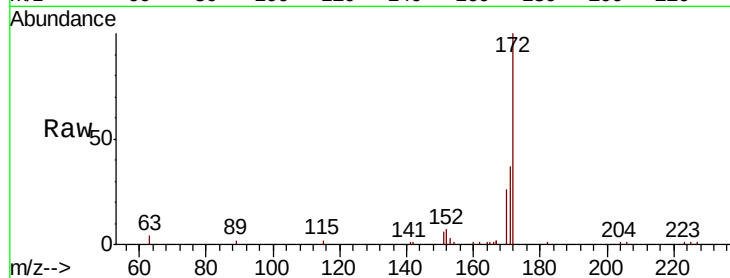
Tgt Ion:172 Resp: 12553

Ion Ratio Lower Upper

172 100

171 37.5 28.0 42.0

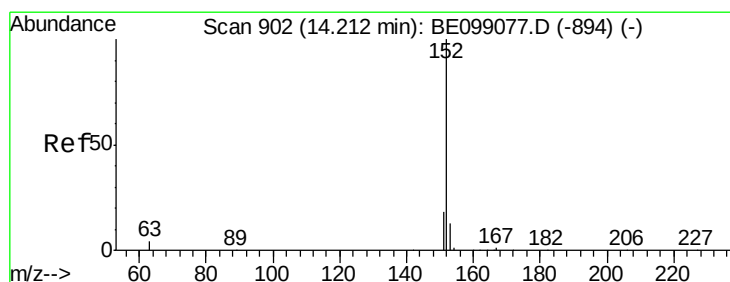
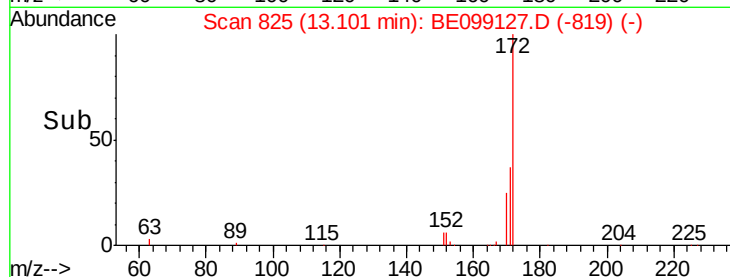
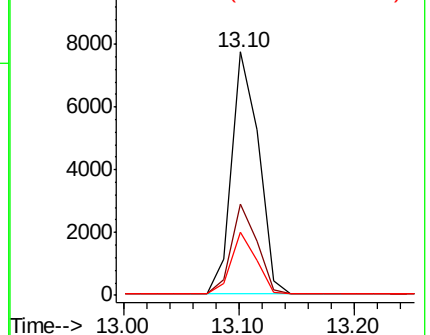
170 25.7 17.7 26.5



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: 14.20 min Scan# 901

Delta R.T. -0.02 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

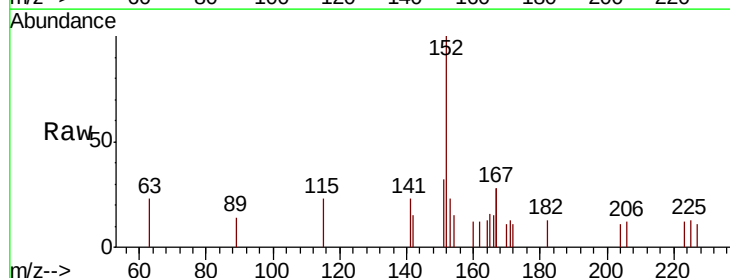
Tgt Ion:152 Resp: 961

Ion Ratio Lower Upper

152 100

151 24.6 17.0 25.6

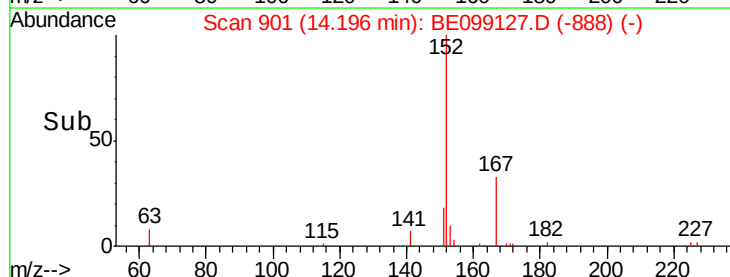
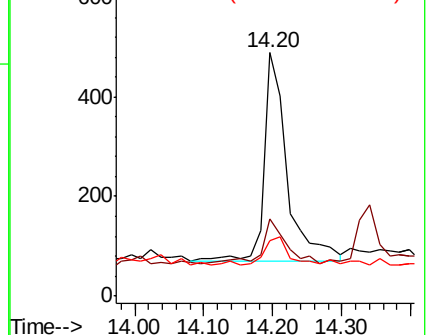
153 13.1 11.2 16.8

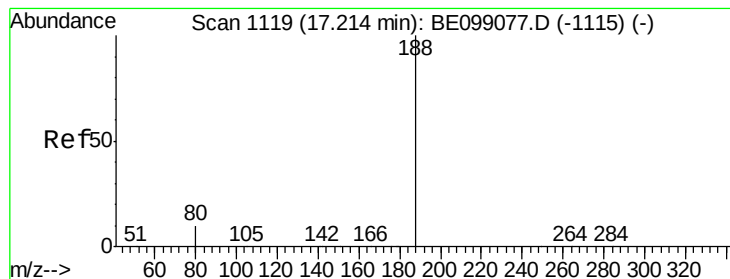


Abundance Ion 152.00 (151.70 to 152.70): E

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: 17.21 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

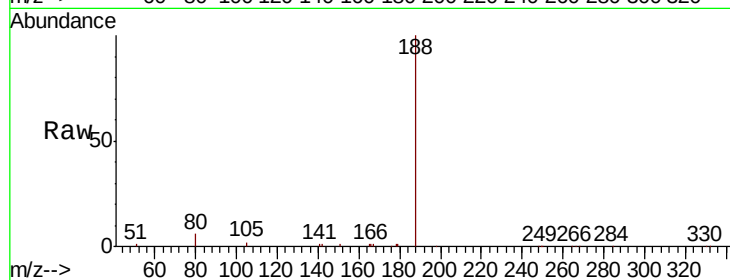
Tgt Ion:188 Resp: 26233

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

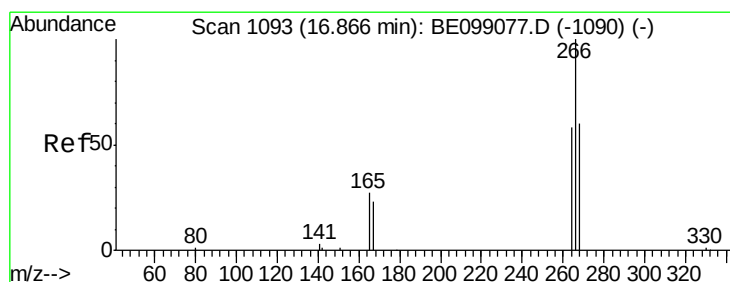
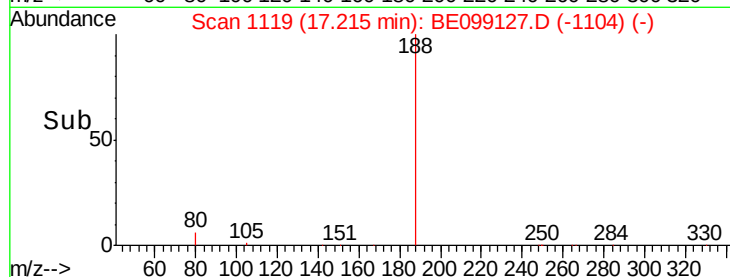
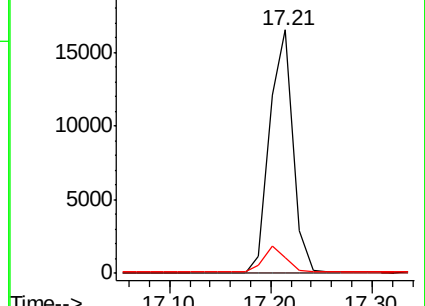
80 6.3 6.3 9.5#



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: 0.257 ng

RT: 16.87 min Scan# 1093

Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

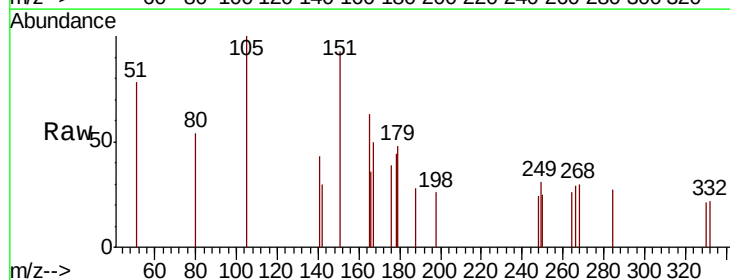
Tgt Ion:266 Resp: 31

Ion Ratio Lower Upper

266 100

264 89.4 66.6 100.0

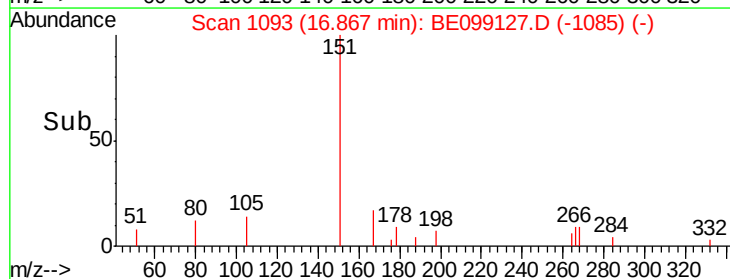
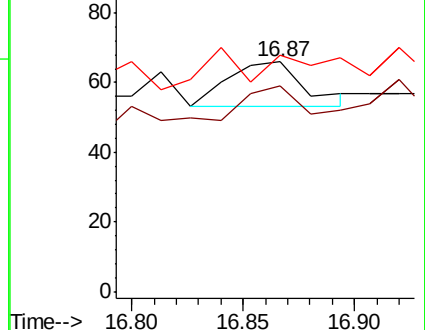
268 103.0 69.8 104.8

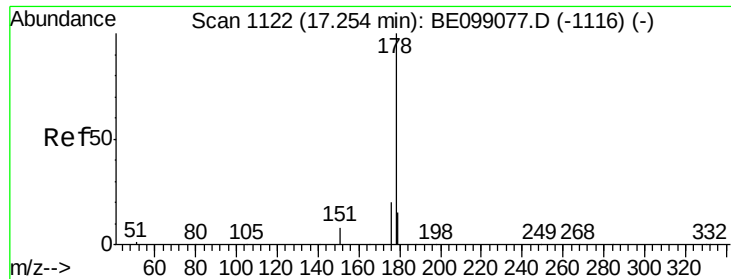


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.182 ng

RT: 17.25 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

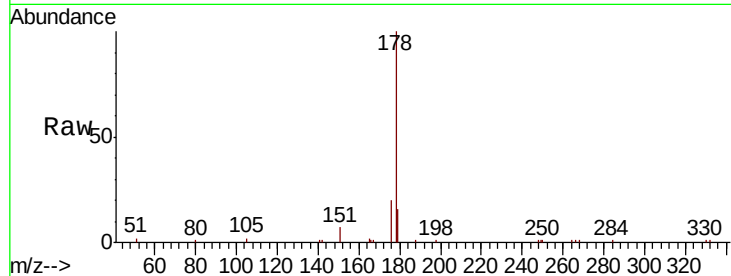
Tgt Ion:178 Resp: 14211

Ion Ratio Lower Upper

178 100

176 19.6 16.0 24.0

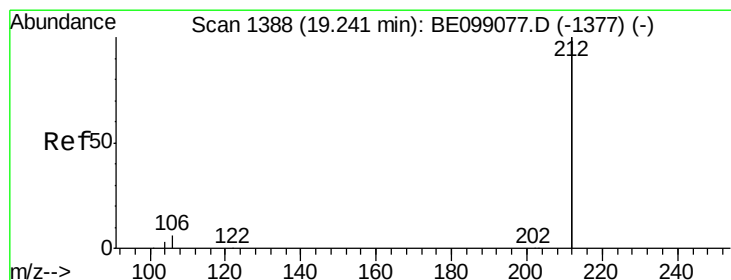
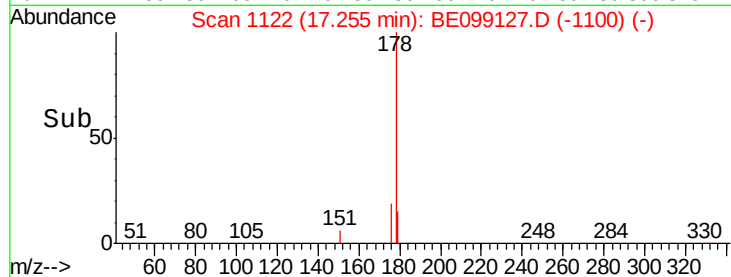
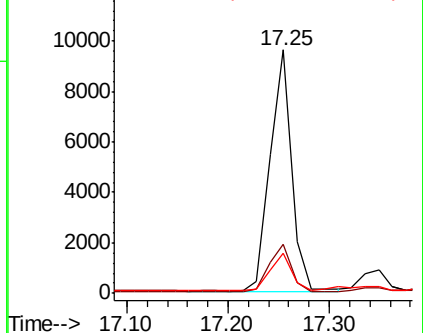
179 16.0 12.1 18.1



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



#25

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

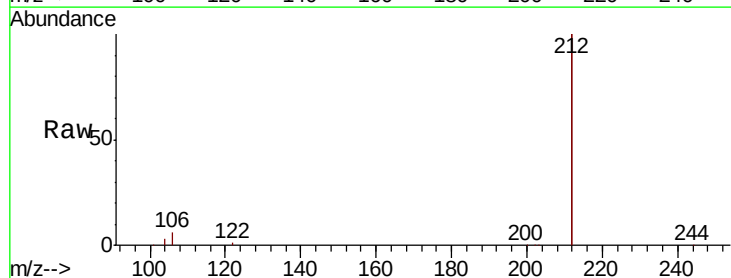
Tgt Ion:212 Resp: 132999

Ion Ratio Lower Upper

212 100

106 2.7 1.8 2.8

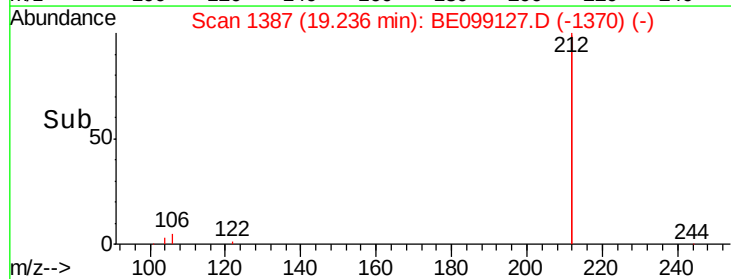
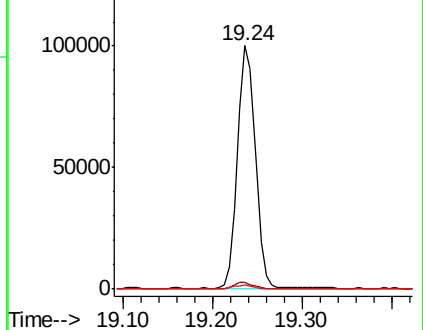
104 1.5 1.0 1.6

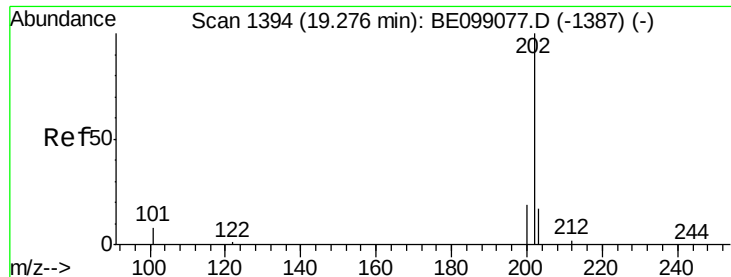


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

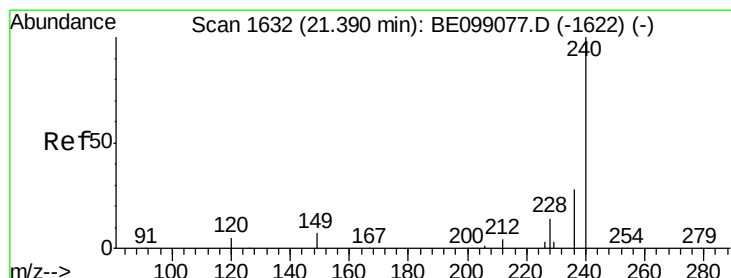
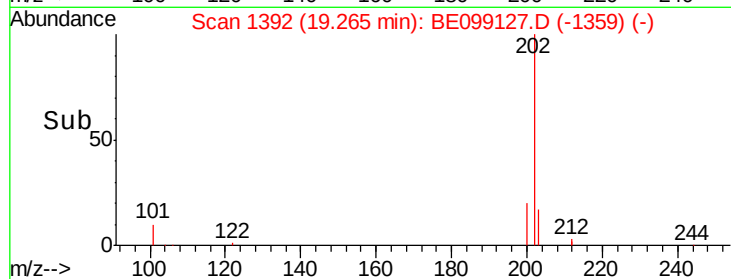
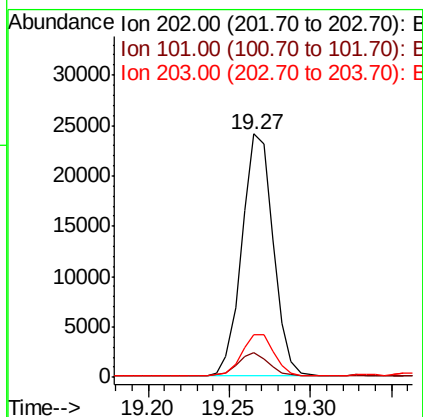
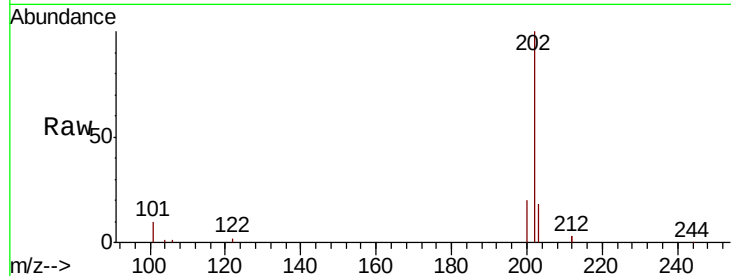




#26
 Fluoranthene
 Concen: 0.293 ng
 RT: 19.27 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

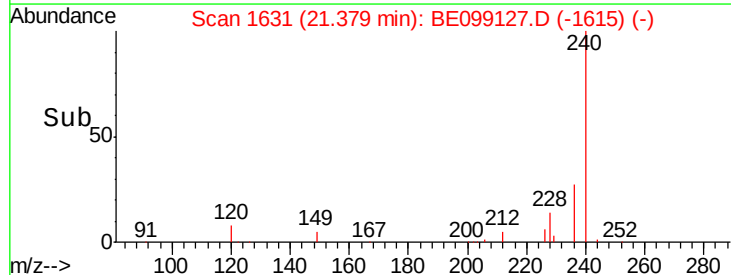
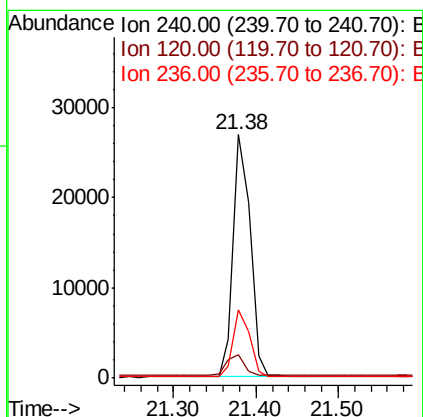
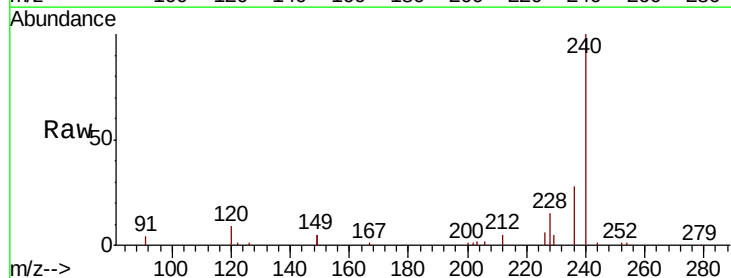
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW078-031919

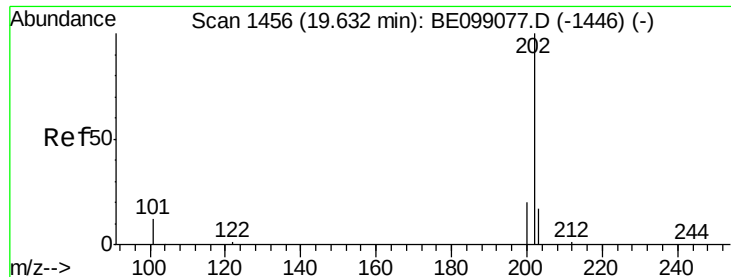
Tgt Ion: 202 Resp: 32163
 Ion Ratio Lower Upper
 202 100
 101 9.8 7.3 10.9
 203 17.5 13.4 20.2



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.38 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

Tgt Ion: 240 Resp: 38912
 Ion Ratio Lower Upper
 240 100
 120 9.4 5.0 7.4#
 236 27.8 22.7 34.1





#28

Pyrene

Concen: 0.239 ng

RT: 19.63 min Scan# 1455

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

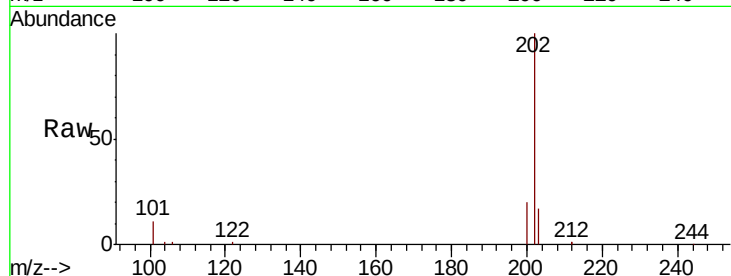
Tgt Ion:202 Resp: 31600

Ion Ratio Lower Upper

202 100

200 19.8 17.0 25.6

203 20.6 14.2 21.2

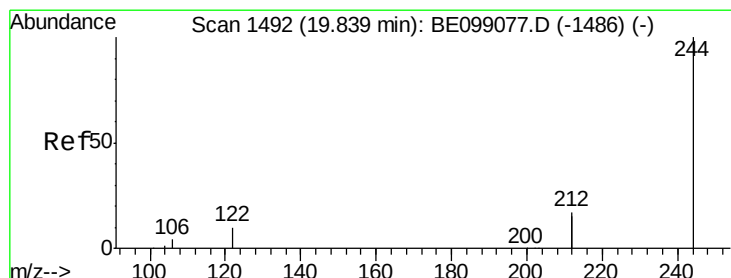
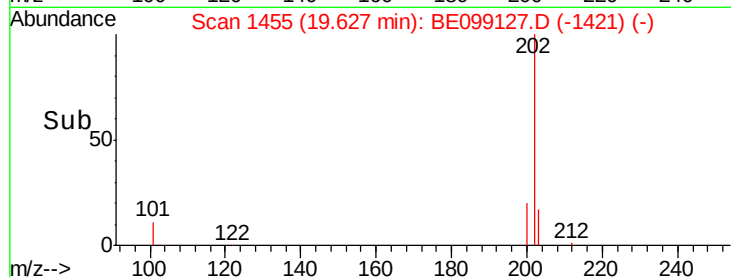
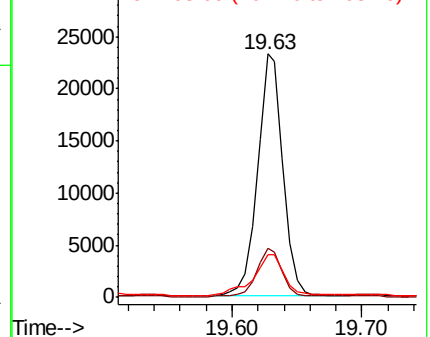


Abundance

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: 0.277 ng

RT: 19.83 min Scan# 1491

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

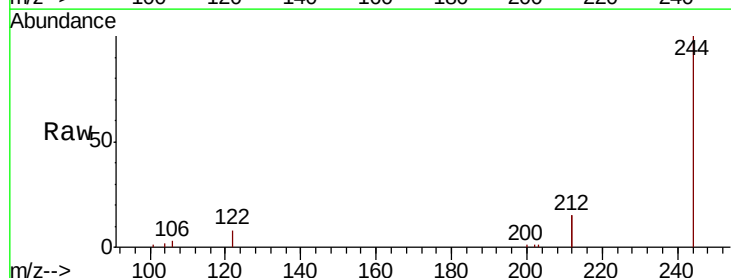
Tgt Ion:244 Resp: 22850

Ion Ratio Lower Upper

244 100

212 29.5 29.4 44.2

122 8.4 7.1 10.7

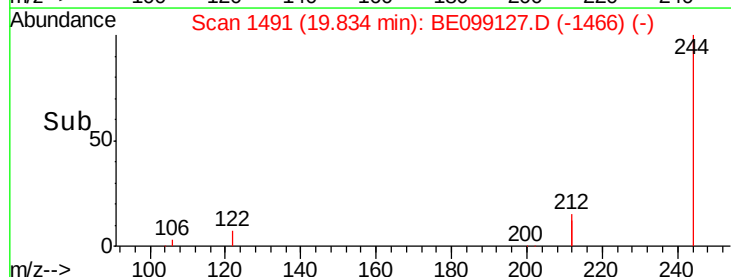
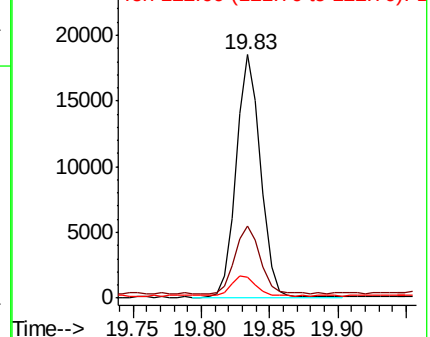


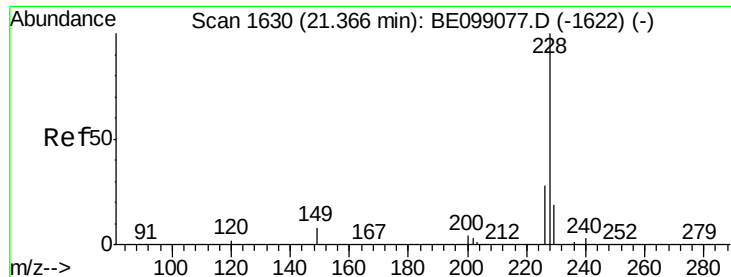
Abundance

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: 0.131 ng

RT: 21.37 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

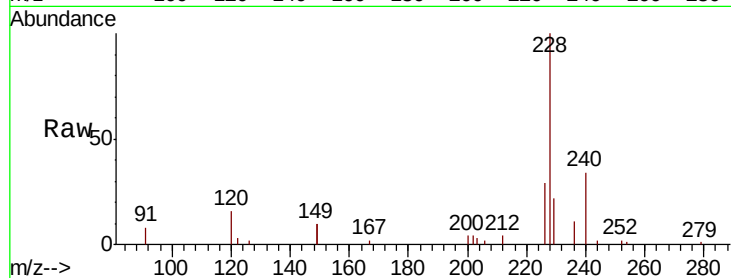
Tgt Ion:228 Resp: 17900

Ion Ratio Lower Upper

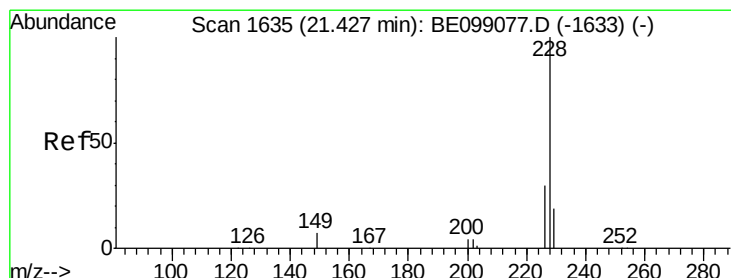
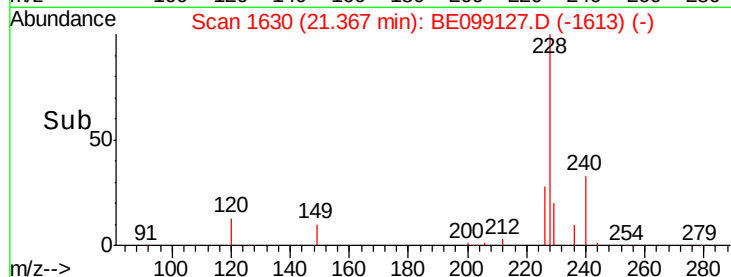
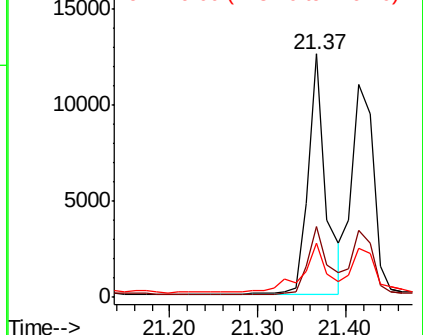
228 100

226 29.0 23.0 34.4

229 22.1 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: 0.137 ng

RT: 21.42 min Scan# 1634

Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

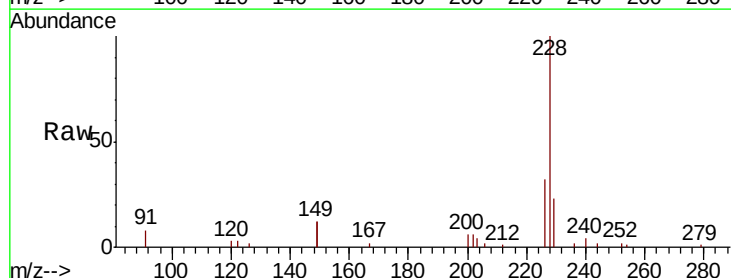
Tgt Ion:228 Resp: 18760

Ion Ratio Lower Upper

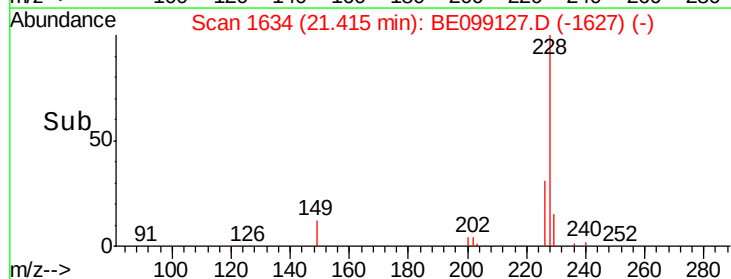
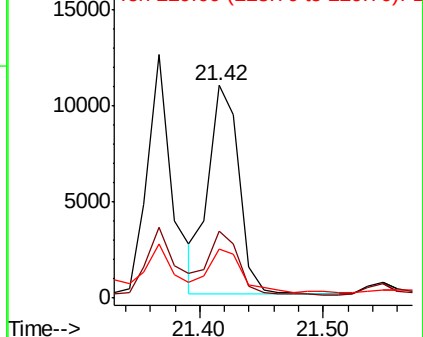
228 100

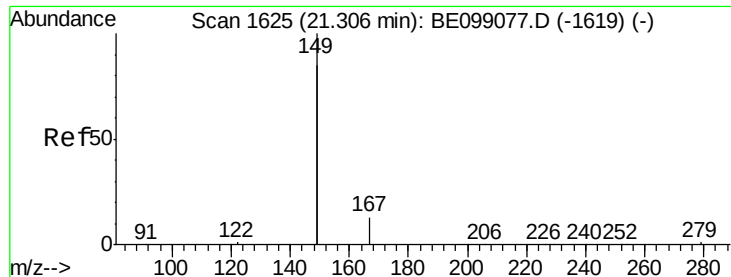
226 31.7 23.7 35.5

229 23.0 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

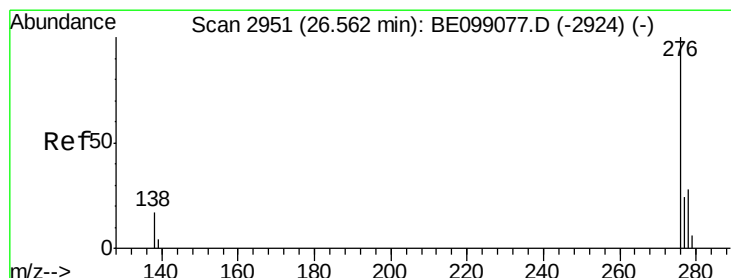
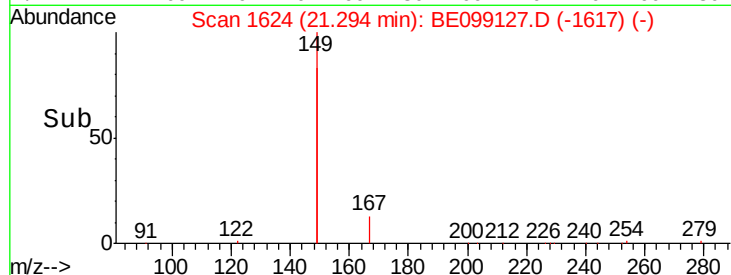
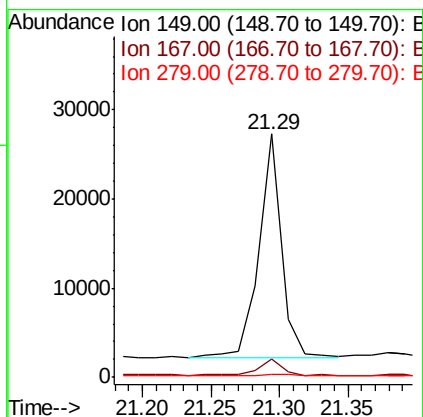
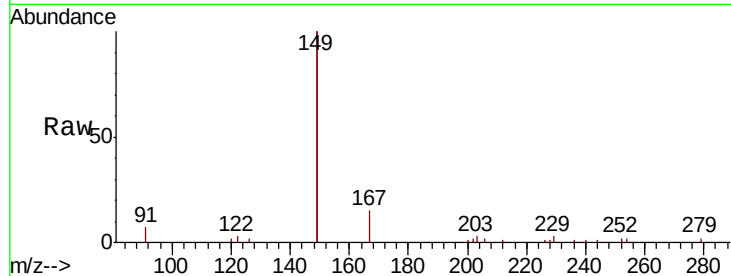




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.160 ng
 RT: 21.29 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

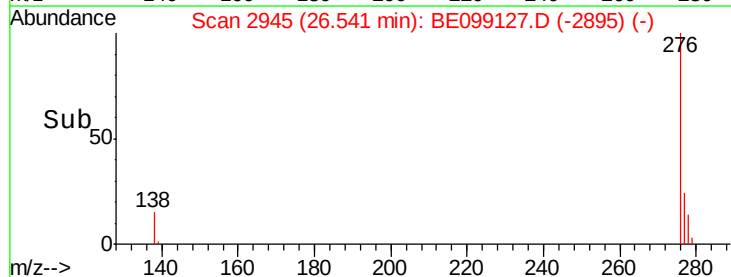
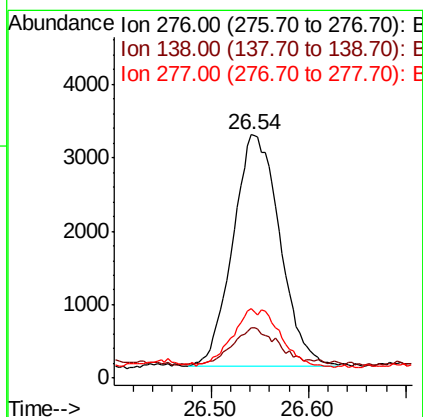
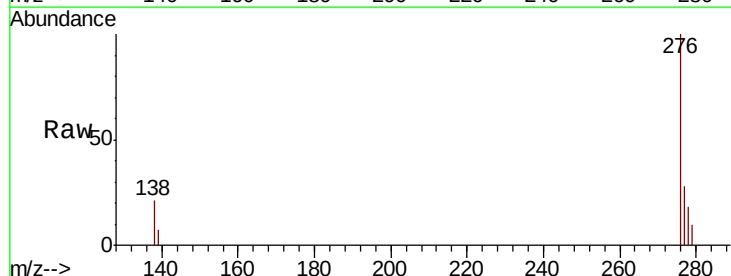
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW078-031919

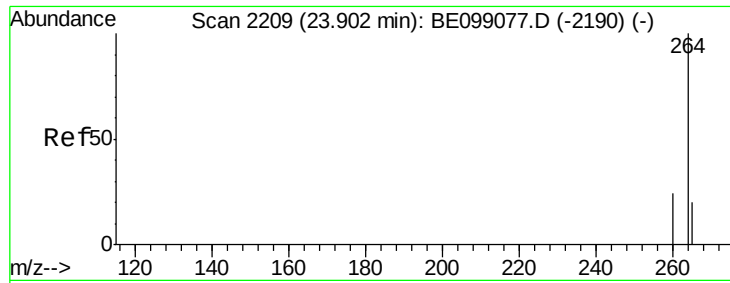
Tgt Ion:149 Resp: 28462
 Ion Ratio Lower Upper
 149 100
 167 7.5 5.4 8.0
 279 1.0 1.0 1.4



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.072 ng
 RT: 26.54 min Scan# 2945
 Delta R.T. -0.02 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

Tgt Ion:276 Resp: 10639
 Ion Ratio Lower Upper
 276 100
 138 14.8 13.8 20.8
 277 13.6 19.5 29.3#

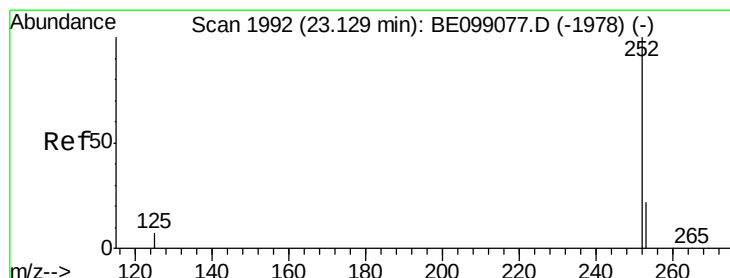
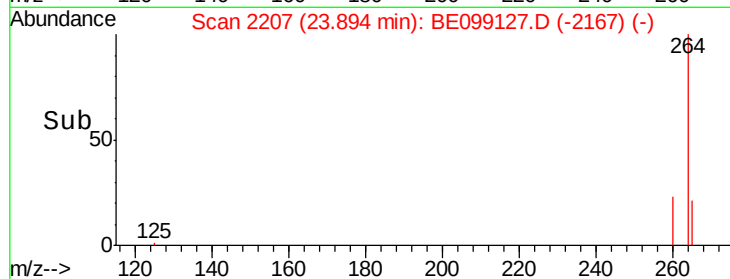
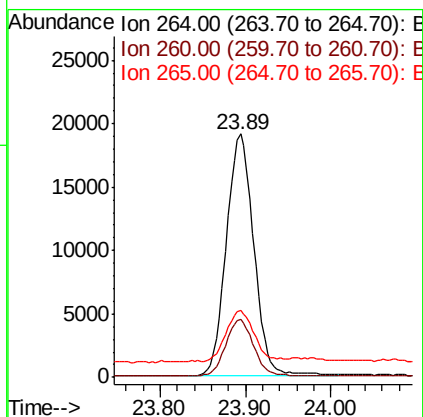
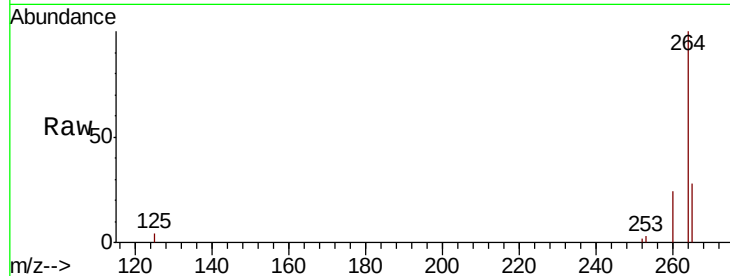




#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.89 min Scan# 2207
 Delta R.T. -0.01 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

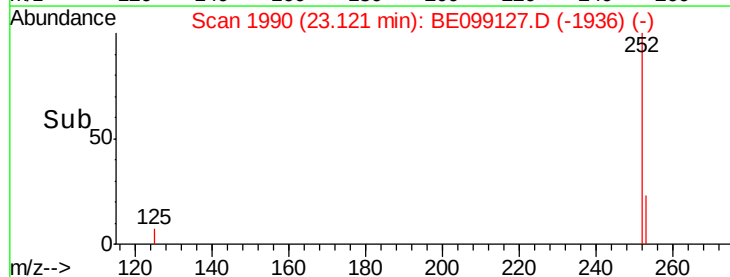
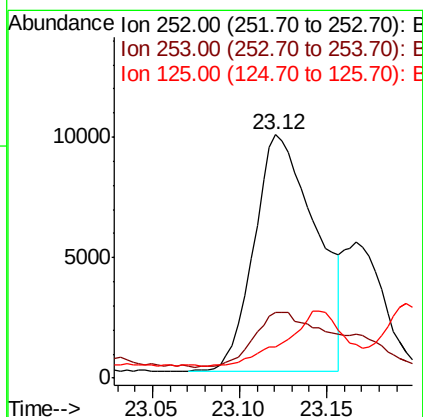
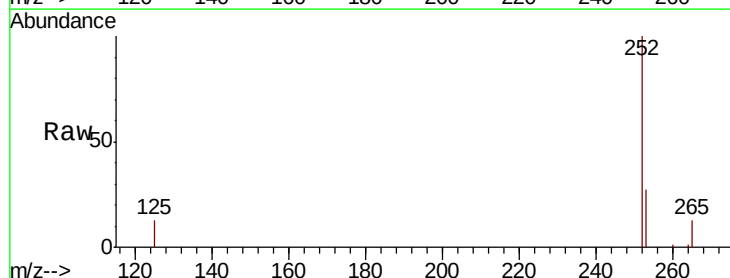
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW078-031919

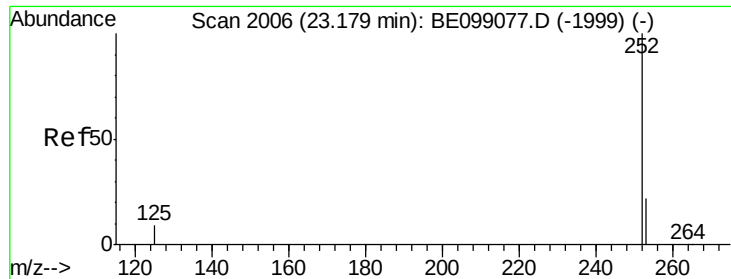
Tgt Ion: 264 Resp: 42607
 Ion Ratio Lower Upper
 264 100
 260 23.6 21.2 31.8
 265 27.6 24.6 36.8



#35
Benzo(b)fluoranthene
 Concen: 0.165 ng
 RT: 23.12 min Scan# 1990
 Delta R.T. -0.01 min
 Lab File: BE099127.D
 Acq: 24 Mar 2019 1:15

Tgt Ion: 252 Resp: 24246
 Ion Ratio Lower Upper
 252 100
 253 27.1 18.2 27.2
 125 12.9 7.3 10.9#

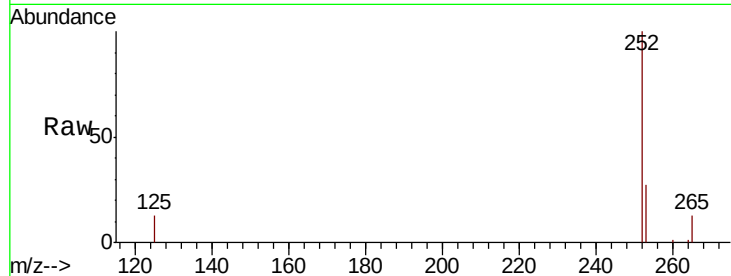




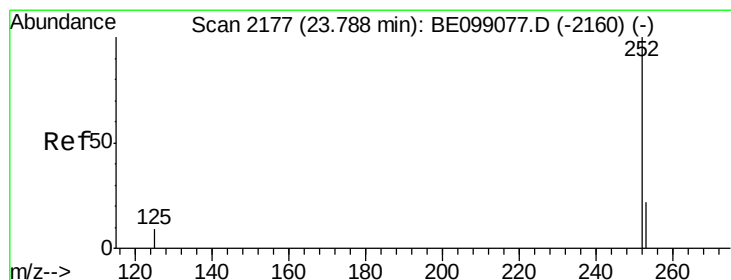
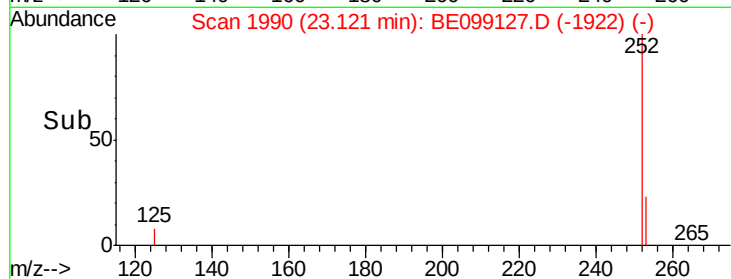
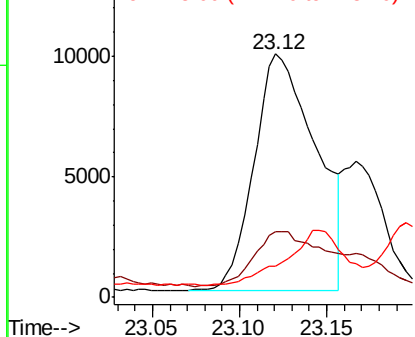
#36
Benzo(k)fluoranthene
Concen: 0.168 ng
RT: 23.12 min Scan# 1990
Delta R.T. -0.06 min
Lab File: BE099127.D
Acq: 24 Mar 2019 1:15

Instrument :
BNA_E
ClientSampleId :
PST-026-SW078-031919

Tgt Ion: 252 Resp: 24246
Ion Ratio Lower Upper
252 100
253 27.1 19.3 28.9
125 12.9 7.5 11.3#

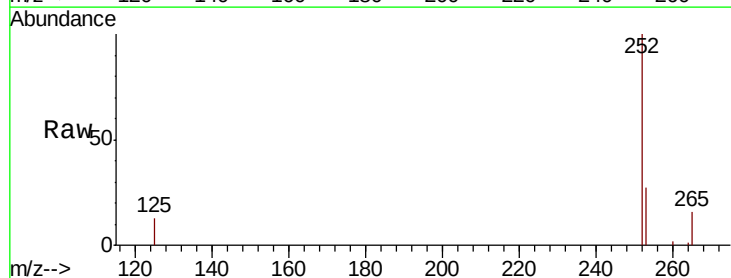


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

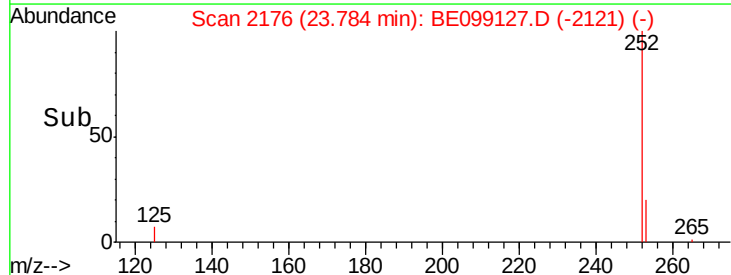
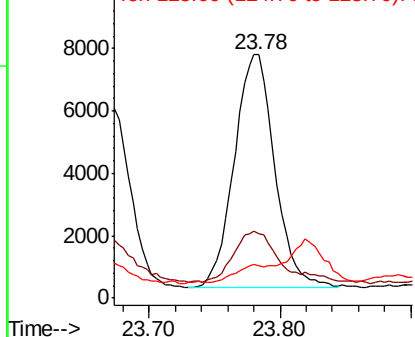


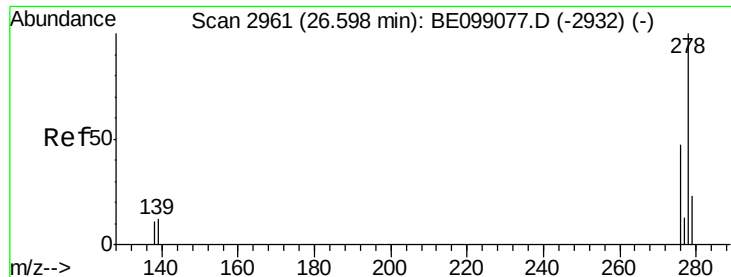
#37
Benzo(a)pyrene
Concen: 0.118 ng
RT: 23.78 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BE099127.D
Acq: 24 Mar 2019 1:15

Tgt Ion: 252 Resp: 16072
Ion Ratio Lower Upper
252 100
253 26.5 19.9 29.9
125 13.4 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: 0.021 ng

RT: 26.57 min Scan# 2953

Delta R.T. -0.03 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA_E

ClientSampleId :

PST-026-SW078-031919

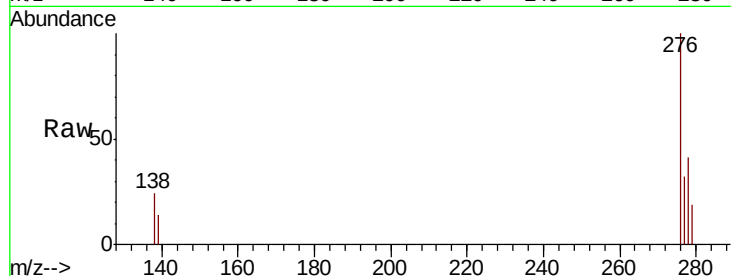
Tgt Ion: 278 Resp: 2731

Ion Ratio Lower Upper

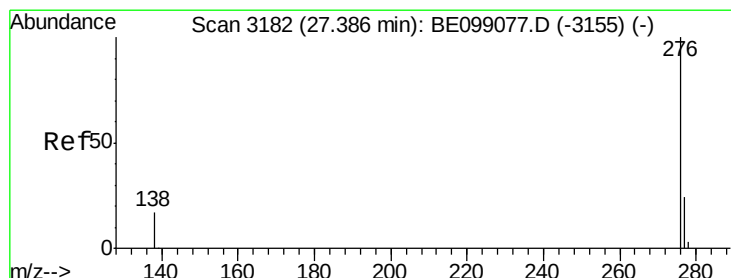
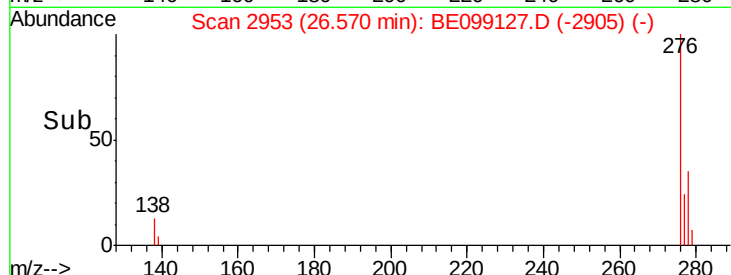
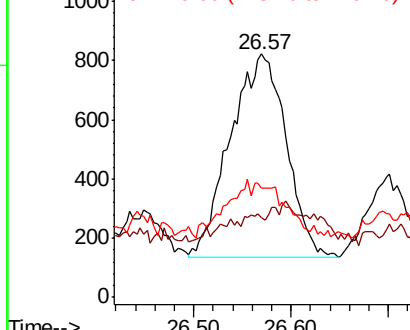
278 100

139 32.9 11.8 17.6#

279 45.1 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: 0.081 ng

RT: 27.37 min Scan# 3177

Delta R.T. -0.02 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

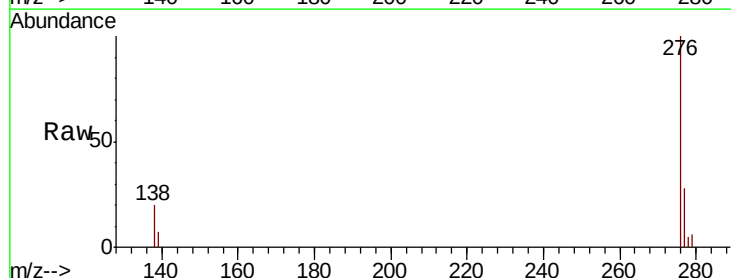
Tgt Ion: 276 Resp: 11007

Ion Ratio Lower Upper

276 100

277 27.7 20.4 30.6

138 20.1 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

