

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032319\
 Data File : BE099112.D
 Acq On : 23 Mar 2019 15:09
 Operator : JU/SJ
 Sample : K2014-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW040-031919

Quant Time: Mar 23 22:36:12 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	3226	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	12457	0.40	ng	-0.01
13) Acenaphthene-d10	14.48	164	8009	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	22985	0.40	ng	0.00
27) Chrysene-d12	21.39	240	34068	0.40	ng	0.00
34) Perylene-d12	23.90	264	36246	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	4013	0.42	ng	0.00
5) Phenol-d6	6.99	99	5637	0.41	ng	0.00
8) Nitrobenzene-d5	8.99	82	3496	0.64	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	8242	0.37	ng	-0.02
14) 2,4,6-Tribromophenol	15.96	330	1257	0.53	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	12900	0.40	ng	-0.02
25) Fluoranthene-d10	19.24	212	119489	0.39	ng	0.00
29) Terphenyl-d14	19.83	244	22890	0.32	ng	0.00

Target Compounds

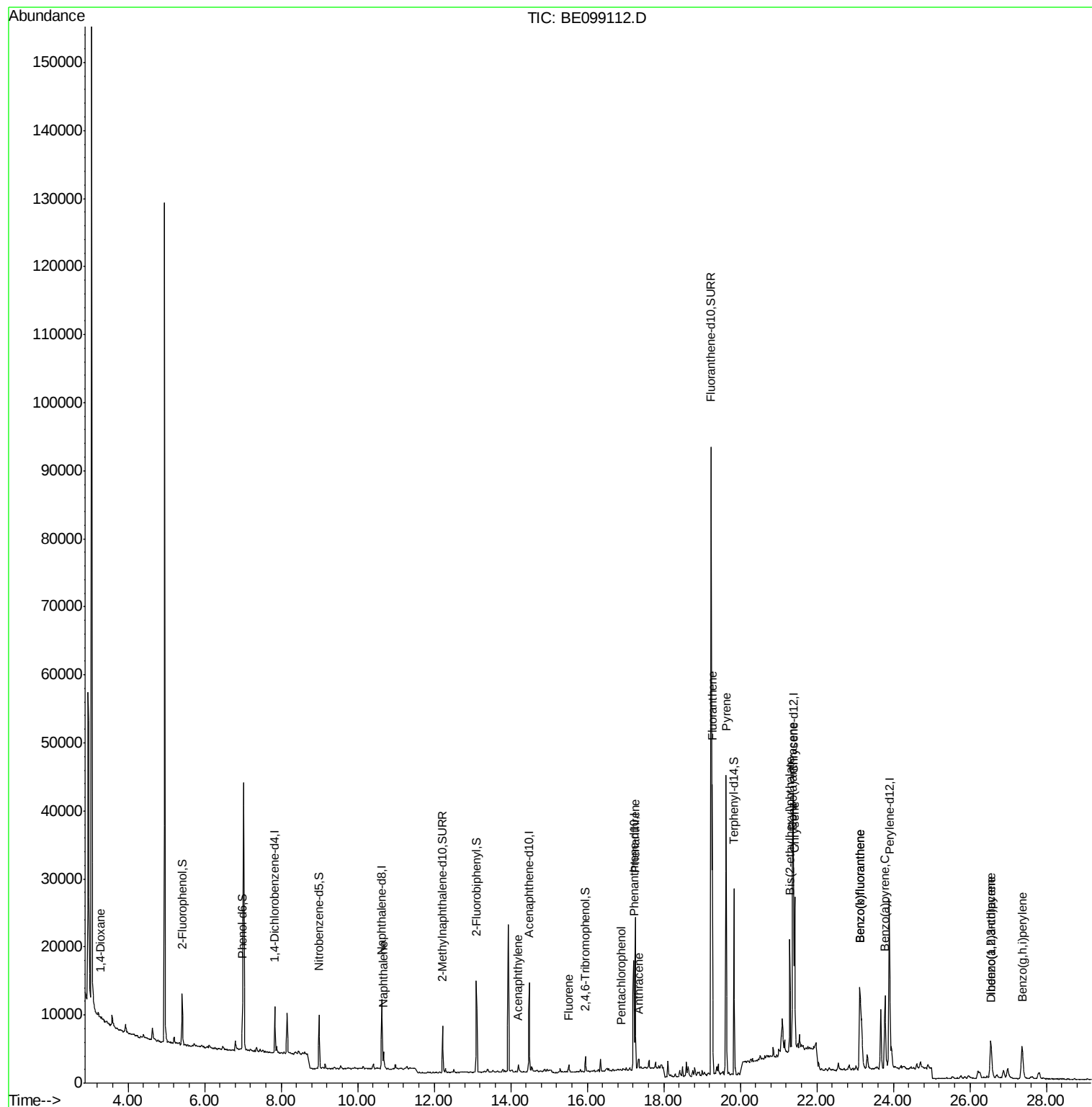
						Qvalue
2) 1,4-Dioxane	3.28	88	198	0.040	ng	# 26
9) Naphthalene	10.68	128	3526	0.024	ng	# 96
16) Acenaphthylene	14.20	152	1785	0.042	ng	97
18) Fluorene	15.51	166	933	0.025	ng	# 89
22) Pentachlorophenol	16.88	266	42	0.260	ng	92
23) Phenanthrene	17.25	178	23249	0.341	ng	99
24) Anthracene	17.35	178	1998	0.031	ng	# 89
26) Fluoranthene	19.27	202	38865	0.405	ng	99
28) Pyrene	19.63	202	41414	0.358	ng	96
30) Benzo(a)anthracene	21.37	228	20441	0.170	ng	99
31) Chrysene	21.43	228	23016	0.192	ng	98
32) Bis(2-ethylhexyl)phthalate	21.29	149	18779	0.121	ng	99
33) Indeno(1,2,3-cd)pyrene	26.55	276	11187	0.087	ng	97
35) Benzo(b)fluoranthene	23.12	252	23908	0.191	ng	94
36) Benzo(k)fluoranthene	23.12	252	23908	0.195	ng	97
37) Benzo(a)pyrene	23.78	252	17713	0.153	ng	99
38) Dibenzo(a,h)anthracene	26.57	278	2891	0.026	ng	# 77
39) Benzo(g,h,i)perylene	27.37	276	12207	0.105	ng	99

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

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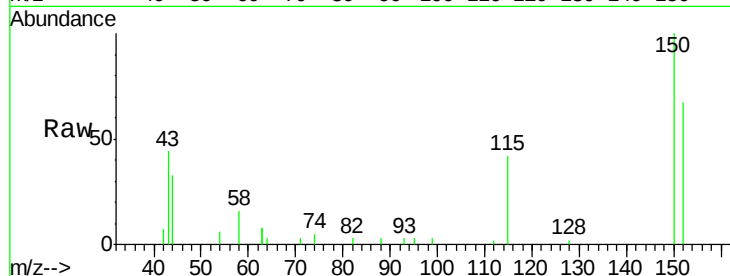


#1

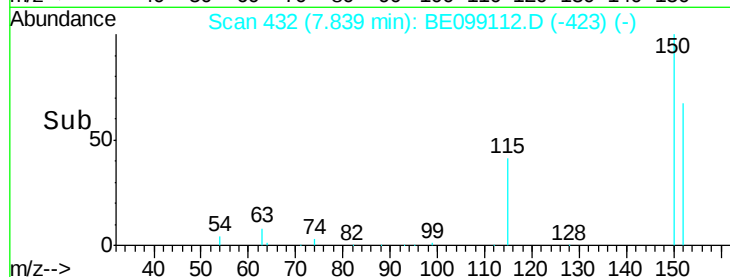
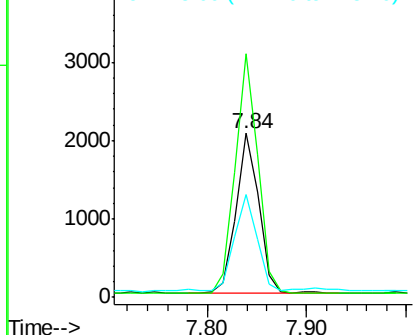
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099112.D
Acq: 23 Mar 2019 15:09

Instrument :
BNA_E
ClientSampleId :
PST-026-SW040-031919

Tgt Ion: 152 Resp: 3226
Ion Ratio Lower Upper
152 100
150 148.6 122.5 183.7
115 63.1 57.4 86.2



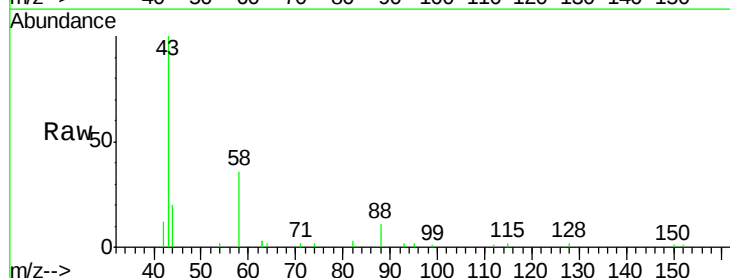
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



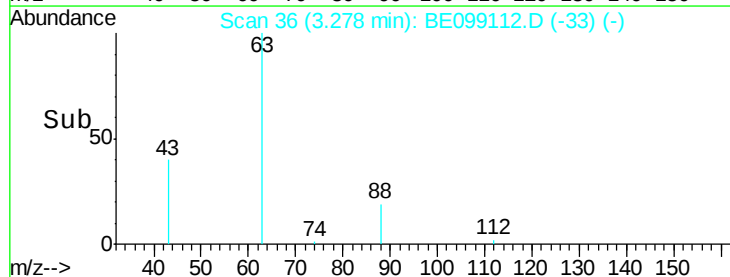
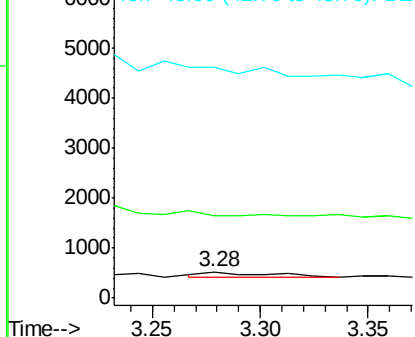
#2

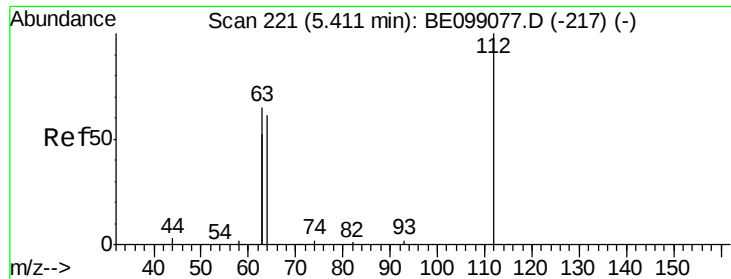
1,4-Dioxane
Concen: 0.040 ng
RT: 3.28 min Scan# 36
Delta R.T. -0.07 min
Lab File: BE099112.D
Acq: 23 Mar 2019 15:09

Tgt Ion: 88 Resp: 198
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





#4

2-Fluorophenol

Concen: 0.418 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

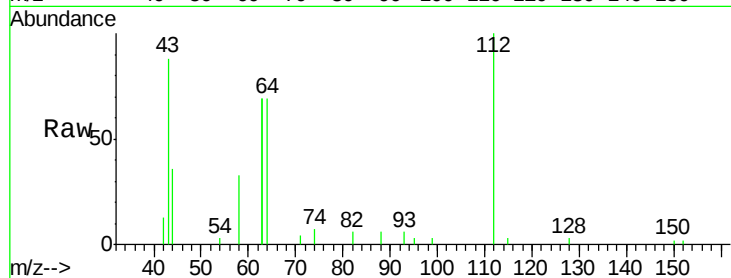
Tgt Ion: 112 Resp: 4013

Ion Ratio Lower Upper

112 100

64 59.3 57.9 86.9

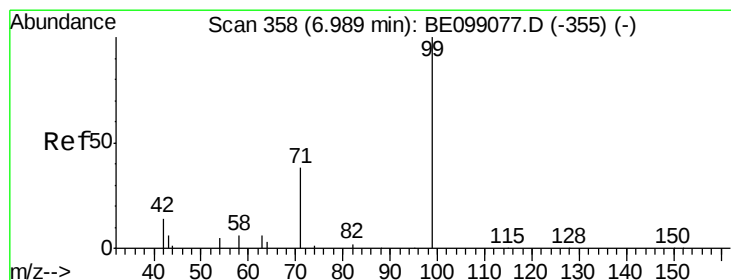
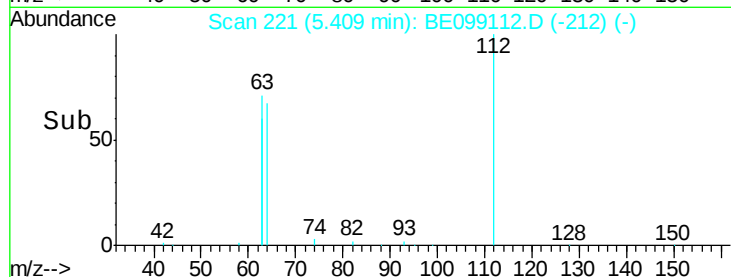
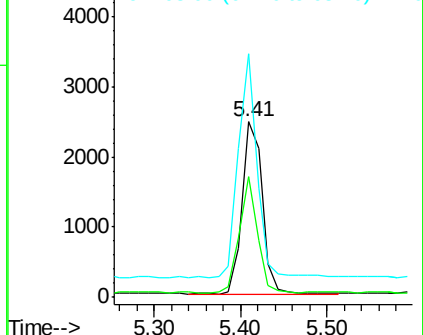
63 117.3 158.3 237.5#



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: 0.408 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

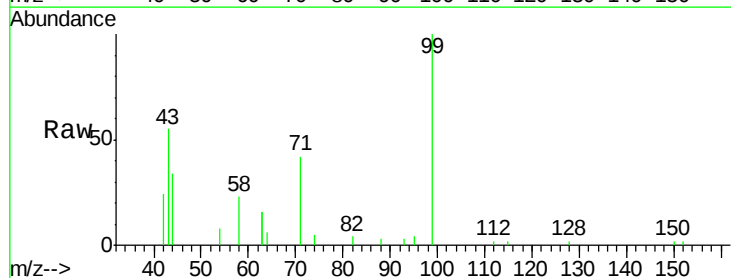
Tgt Ion: 99 Resp: 5637

Ion Ratio Lower Upper

99 100

42 0.0 24.2 36.2#

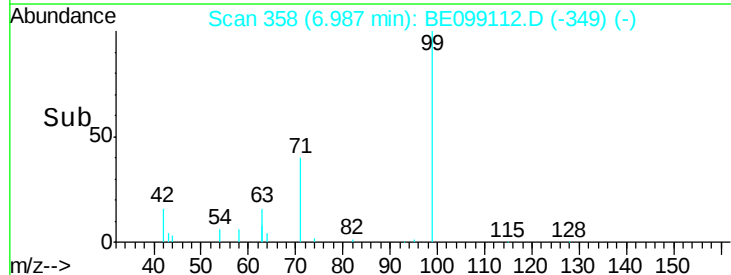
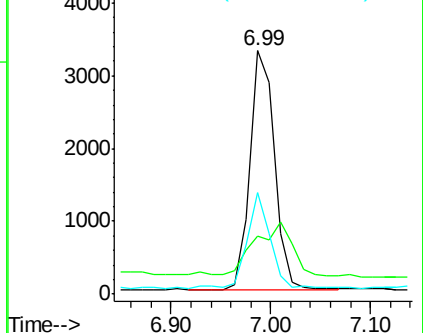
71 37.7 35.7 53.5

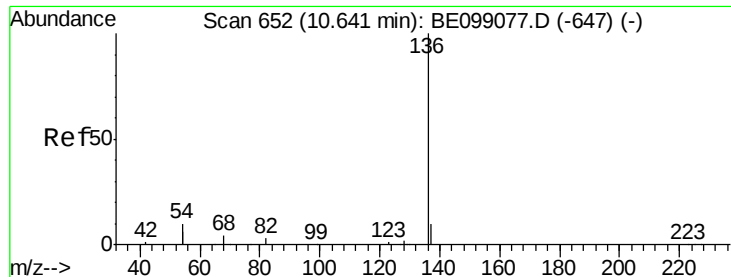


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

Tgt Ion:136 Resp: 12457

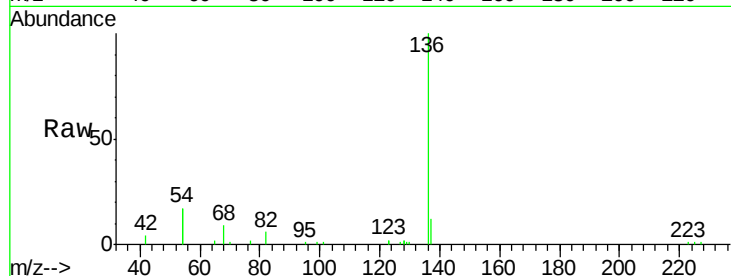
Ion Ratio Lower Upper

136 100

137 11.7 11.4 17.0

54 33.3 39.3 58.9#

68 9.1 6.7 10.1

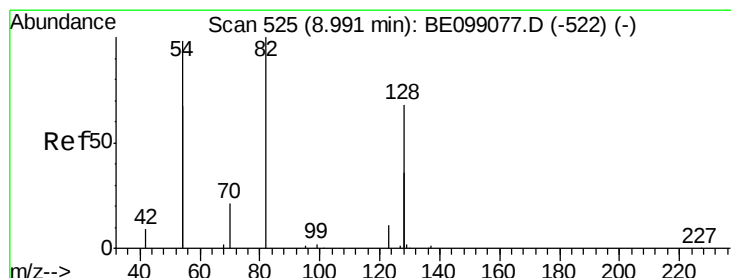
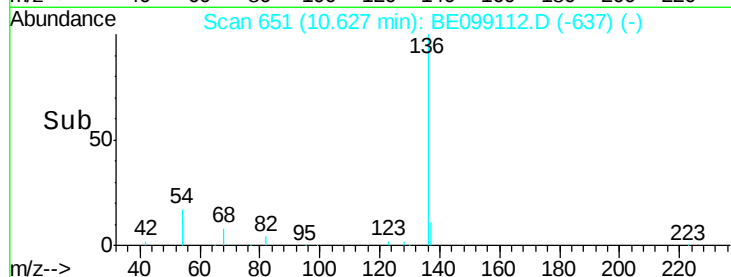
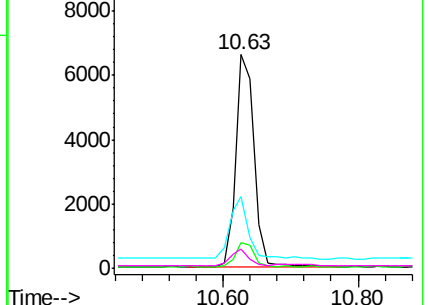


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.642 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

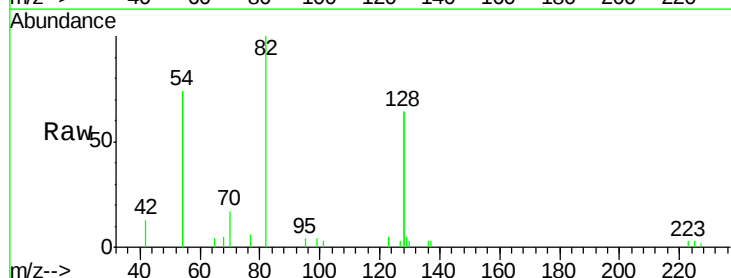
Tgt Ion: 82 Resp: 3496

Ion Ratio Lower Upper

82 100

128 127.6 123.8 185.8

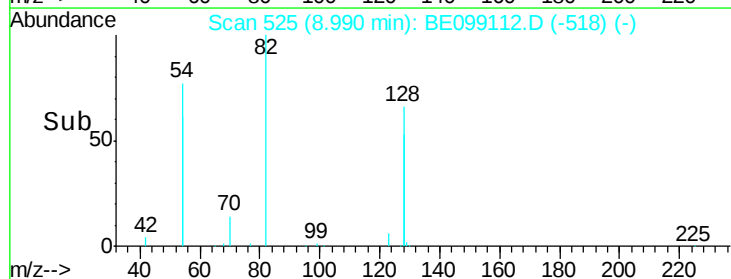
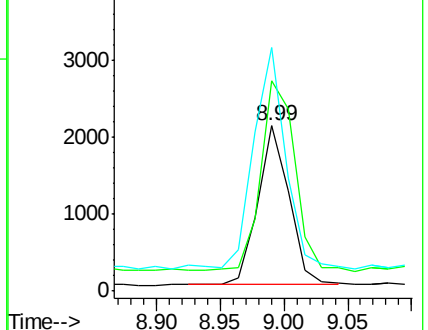
54 147.6 203.4 305.2#

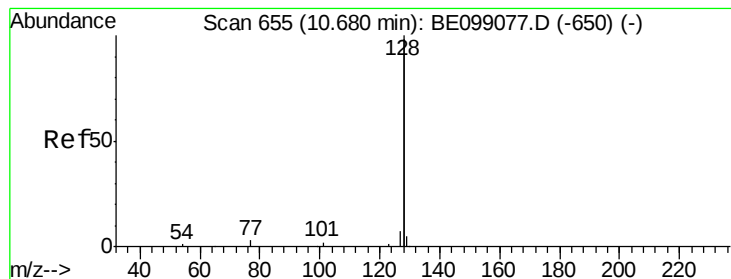


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.024 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

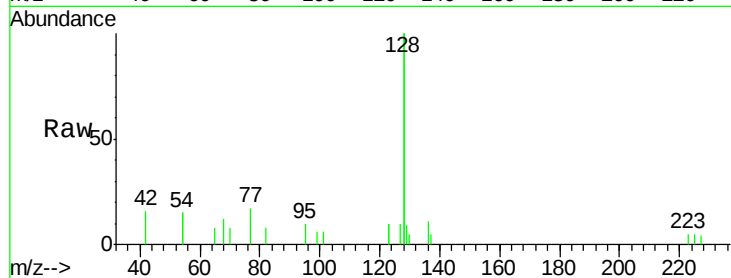
Tgt Ion:128 Resp: 3526

Ion Ratio Lower Upper

128 100

129 4.7 2.6 4.0#

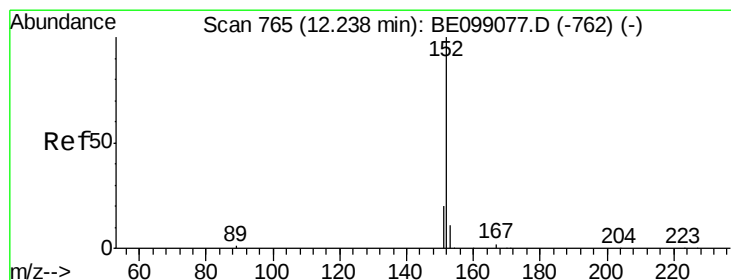
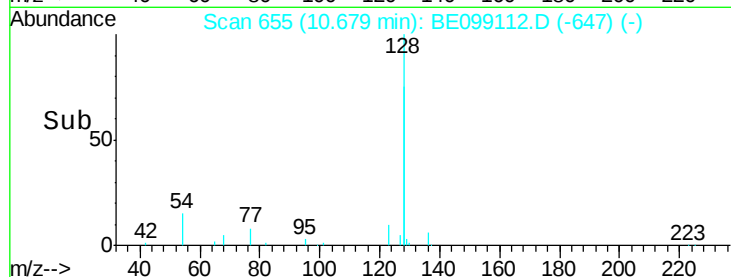
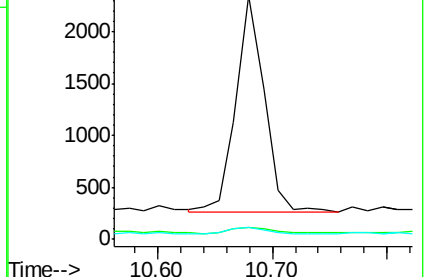
127 5.2 3.1 4.7#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.02 min

Lab File: BE099112.D

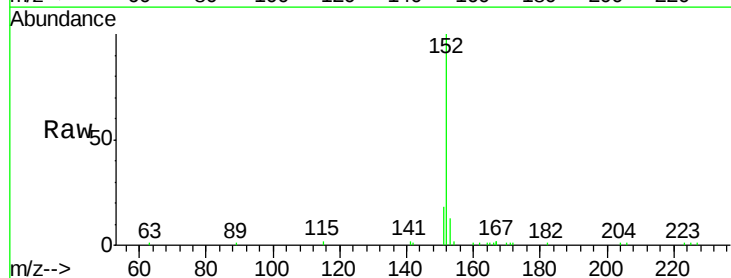
Acq: 23 Mar 2019 15:09

Tgt Ion:152 Resp: 8242

Ion Ratio Lower Upper

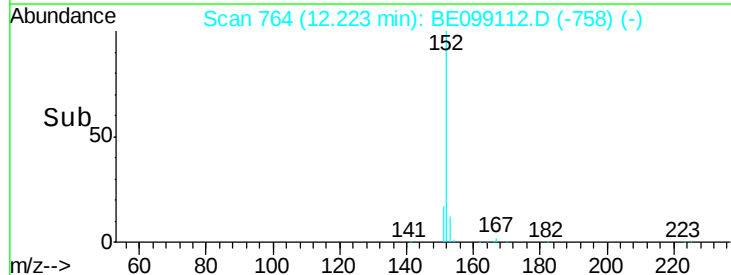
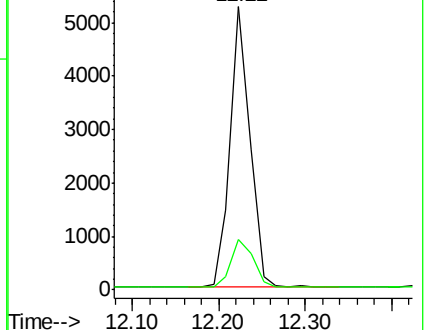
152 100

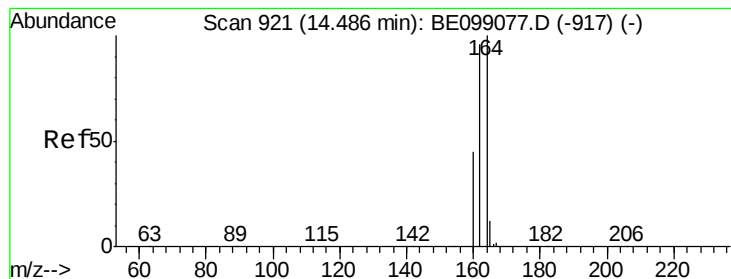
151 19.9 16.5 24.7



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: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

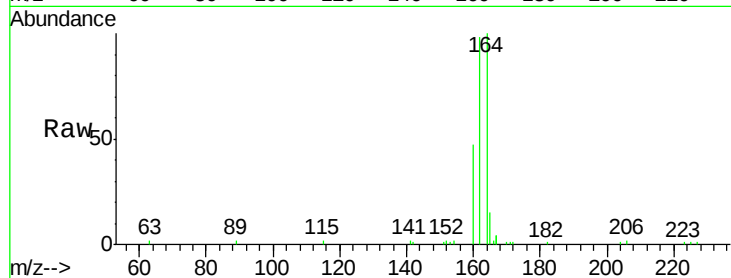
Tgt Ion:164 Resp: 8009

Ion Ratio Lower Upper

164 100

162 97.5 80.2 120.2

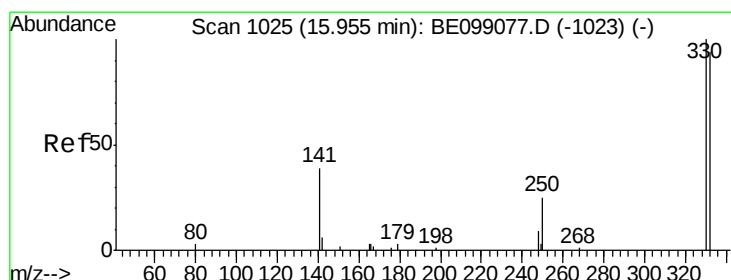
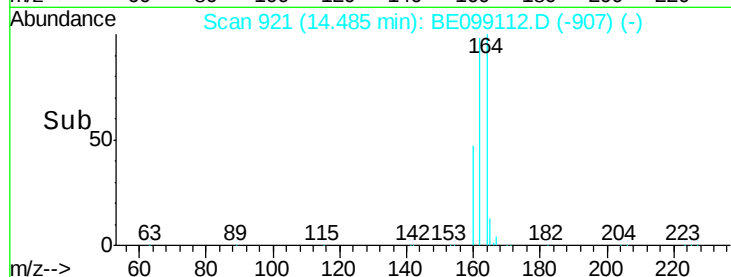
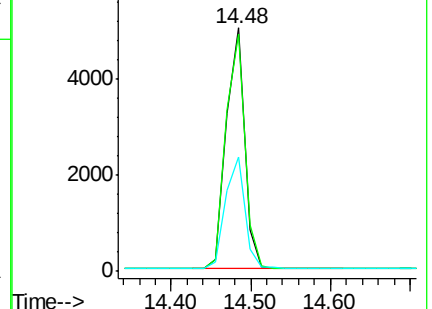
160 47.2 37.8 56.8



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: 0.534 ng

RT: 15.96 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

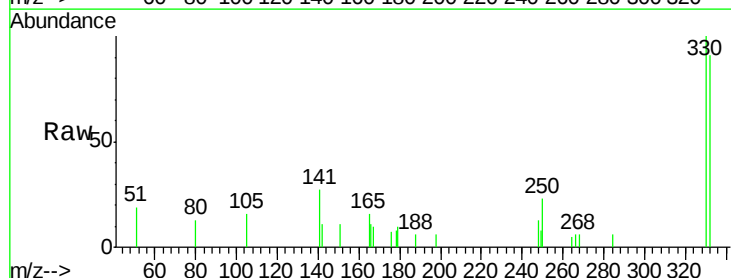
Tgt Ion:330 Resp: 1257

Ion Ratio Lower Upper

330 100

332 92.0 77.6 116.4

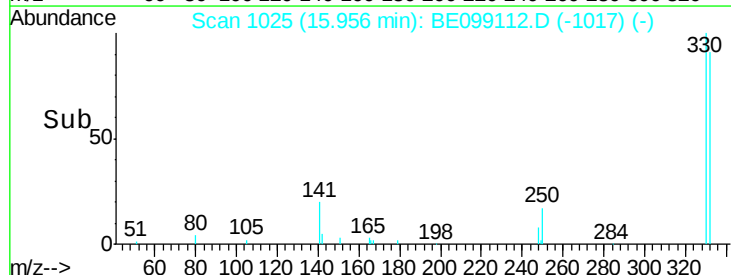
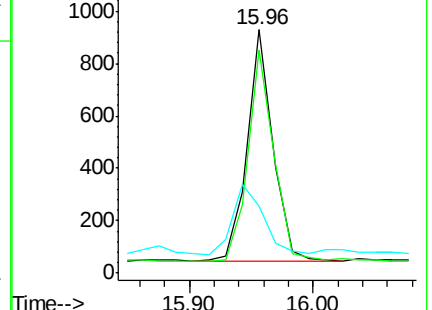
141 35.7 31.0 46.4

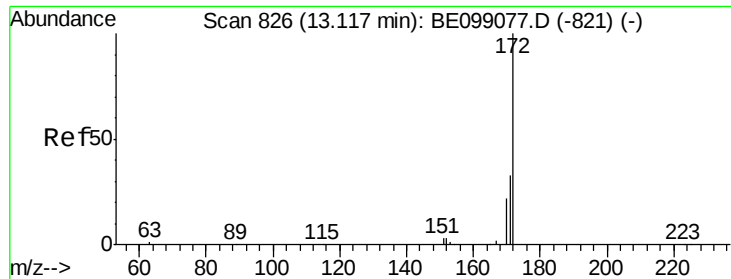


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

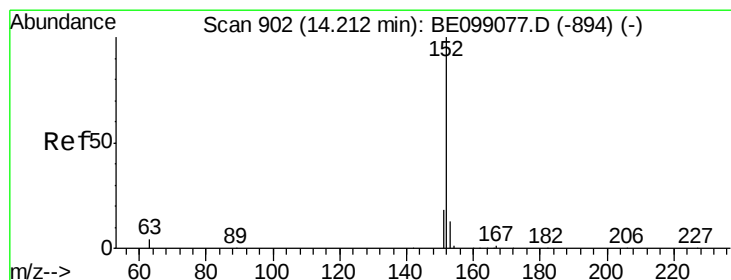
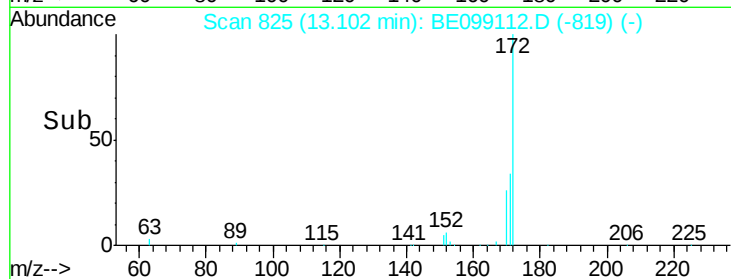
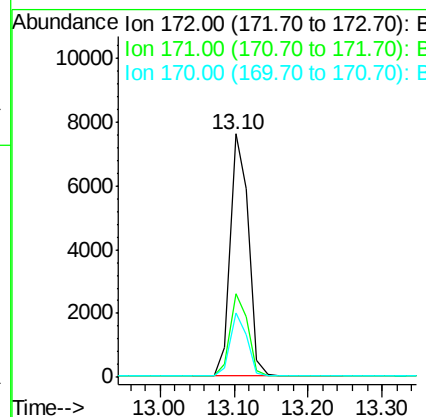
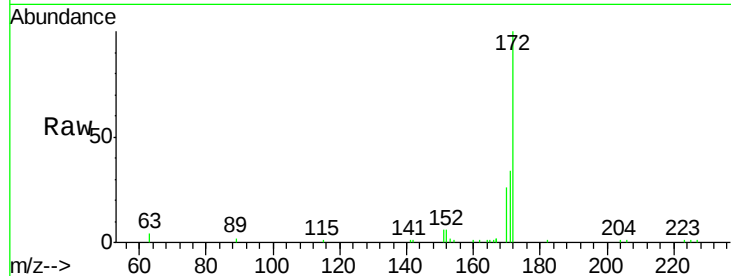




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.02 min
Lab File: BE099112.D
Acq: 23 Mar 2019 15:09

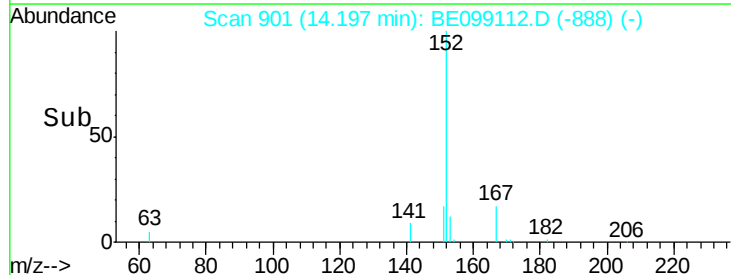
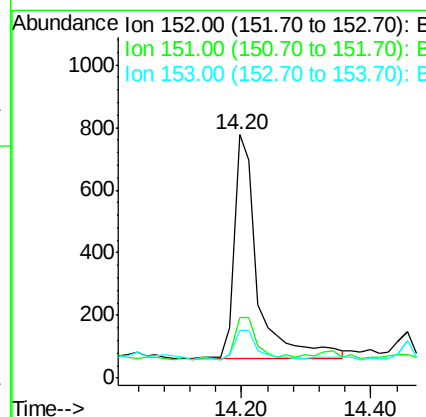
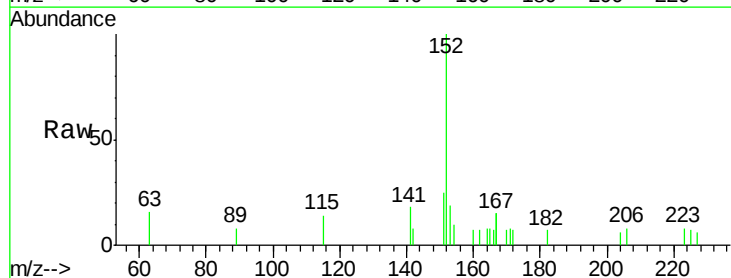
Instrument :
BNA_E
ClientSampleId :
PST-026-SW040-031919

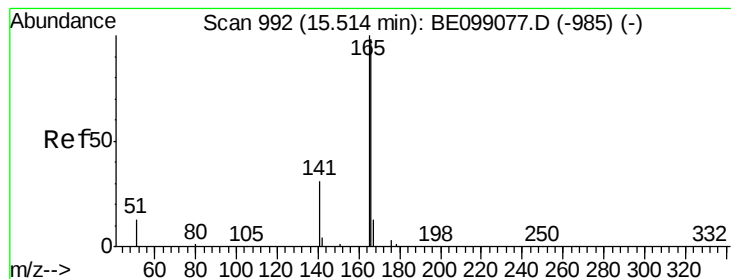
Tgt Ion:172 Resp: 12900
Ion Ratio Lower Upper
172 100
171 34.1 28.0 42.0
170 26.3 17.7 26.5



#16
Acenaphthylene
Concen: 0.042 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.02 min
Lab File: BE099112.D
Acq: 23 Mar 2019 15:09

Tgt Ion:152 Resp: 1785
Ion Ratio Lower Upper
152 100
151 20.4 17.0 25.6
153 12.0 11.2 16.8





#18

Fluorene

Concen: 0.025 ng

RT: 15.51 min Scan# 992

Delta R.T. 0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

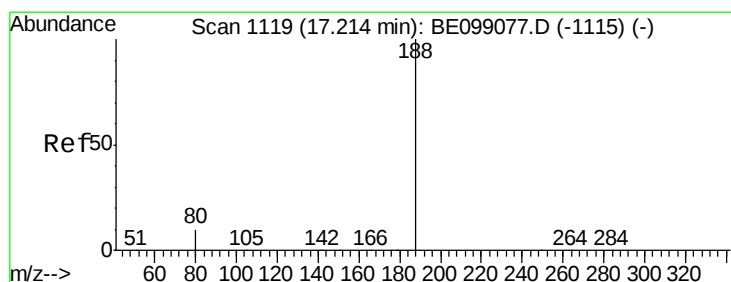
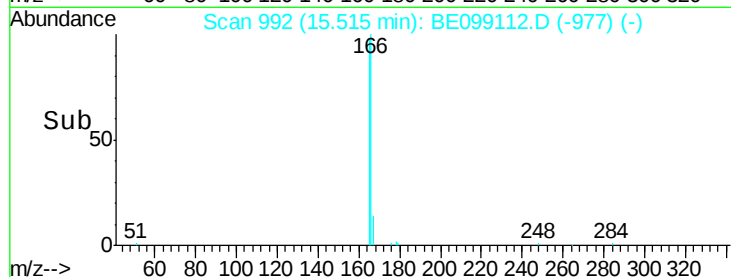
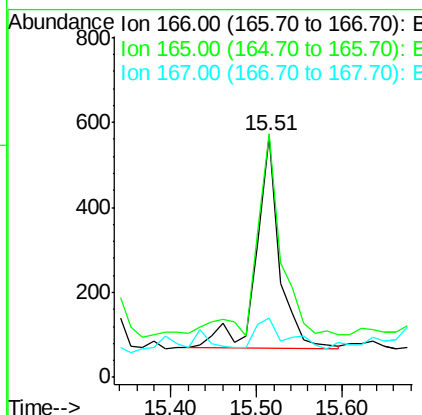
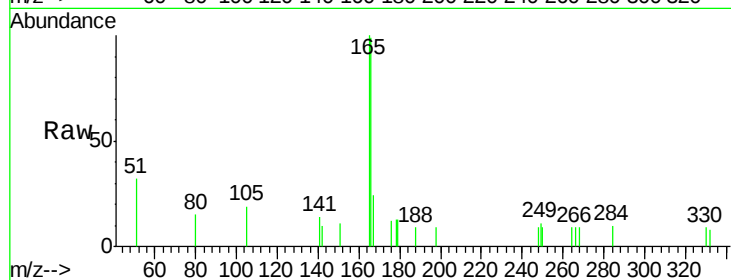
Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

Tgt Ion:	166	Resp:	933
Ion	Ratio	Lower	Upper
166	100		
165	88.7	79.3	118.9
167	20.4	10.5	15.7#



#19

Phenanthrene-d10

Concen: 0.400 ng

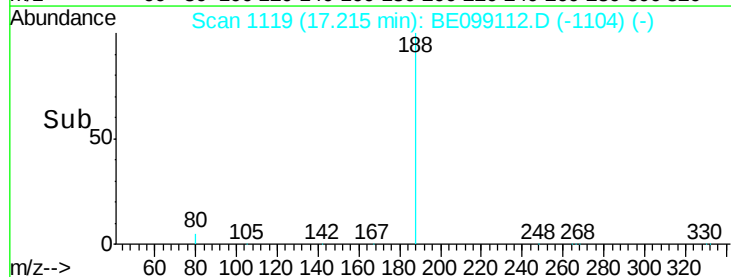
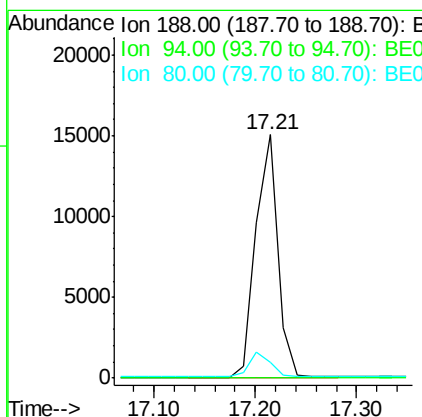
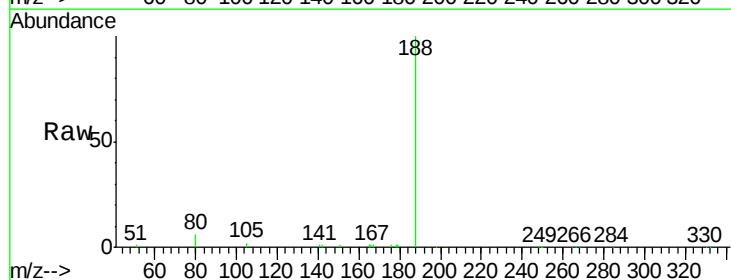
RT: 17.21 min Scan# 1119

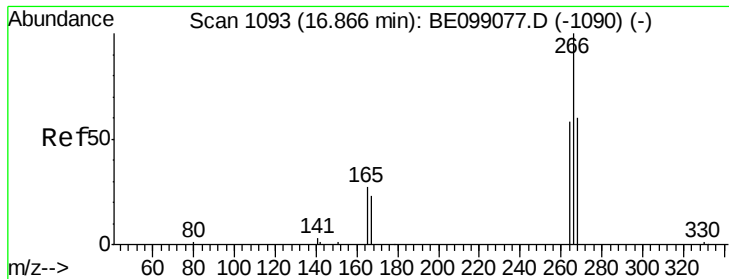
Delta R.T. 0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Tgt Ion:	188	Resp:	22985
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.3	6.3	9.5#

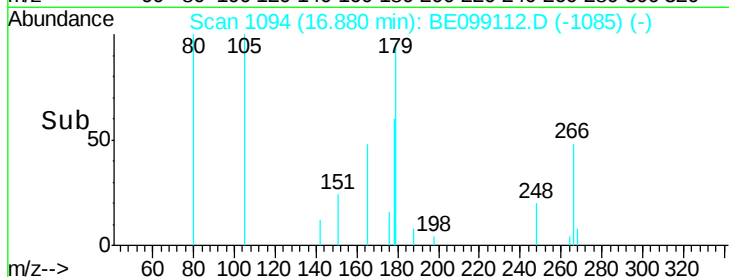
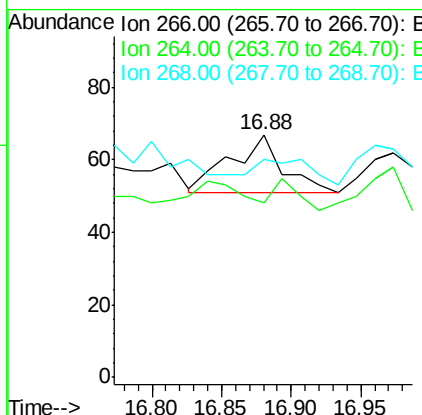
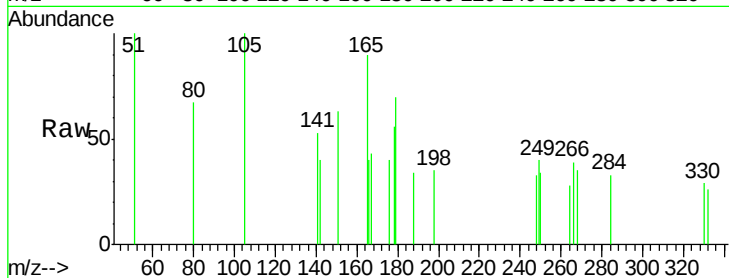




#22
 Pentachlorophenol
 Concen: 0.260 ng
 RT: 16.88 min Scan# 1094
 Delta R.T. 0.01 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

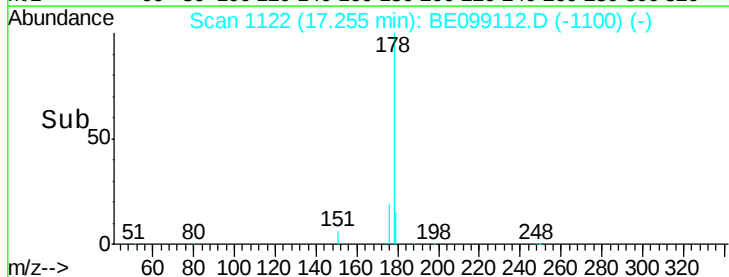
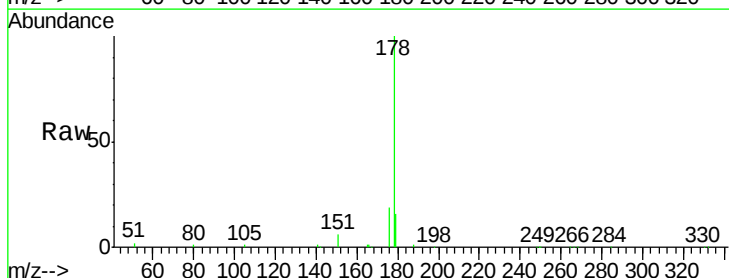
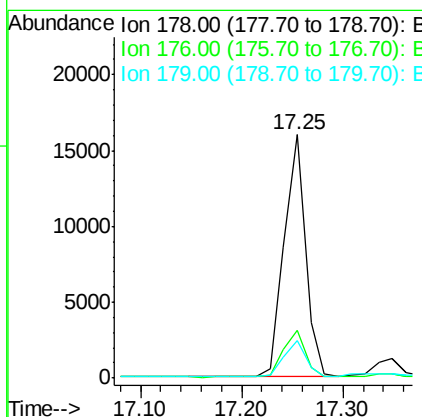
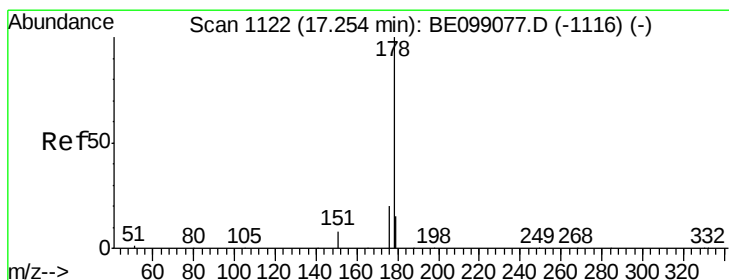
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW040-031919

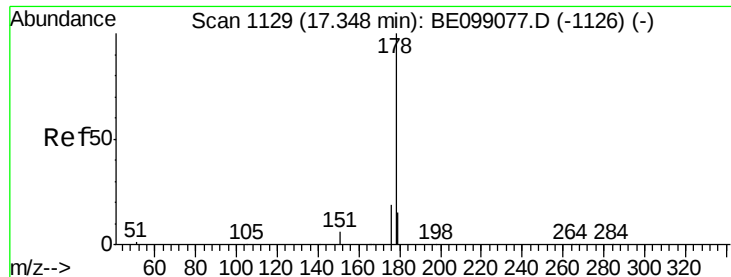
Tgt Ion: 266 Resp: 42
 Ion Ratio Lower Upper
 266 100
 264 71.6 66.6 100.0
 268 89.6 69.8 104.8



#23
 Phenanthrene
 Concen: 0.341 ng
 RT: 17.25 min Scan# 1122
 Delta R.T. 0.00 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

Tgt Ion: 178 Resp: 23249
 Ion Ratio Lower Upper
 178 100
 176 19.9 16.0 24.0
 179 15.5 12.1 18.1





#24

Anthracene

Concen: 0.031 ng

RT: 17.35 min Scan# 1129

Delta R.T. 0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

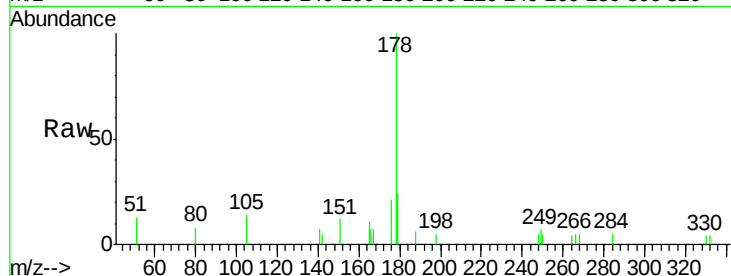
Tgt Ion:178 Resp: 1998

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.0

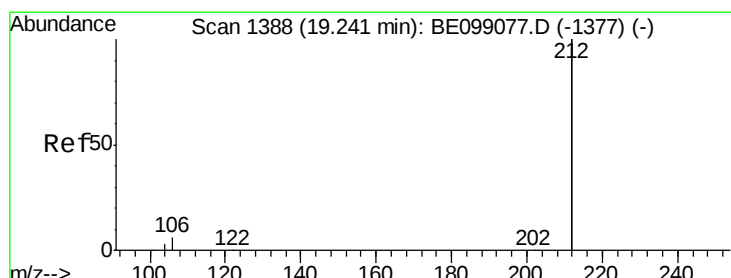
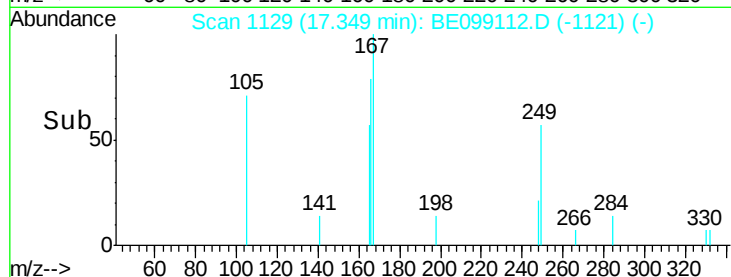
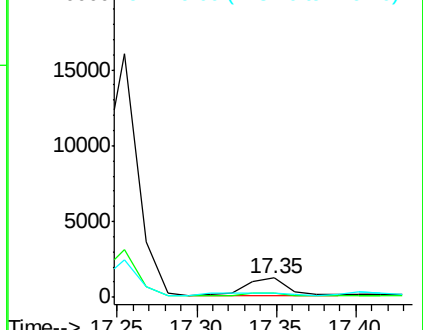
179 24.3 12.2 18.4#



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: 0.390 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

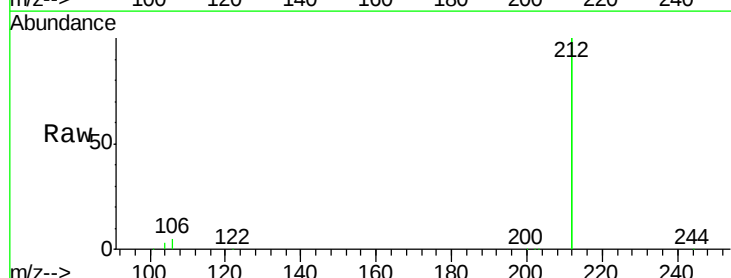
Tgt Ion:212 Resp: 119489

Ion Ratio Lower Upper

212 100

106 2.7 1.8 2.8

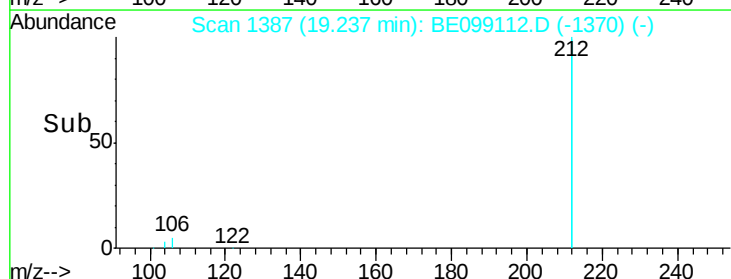
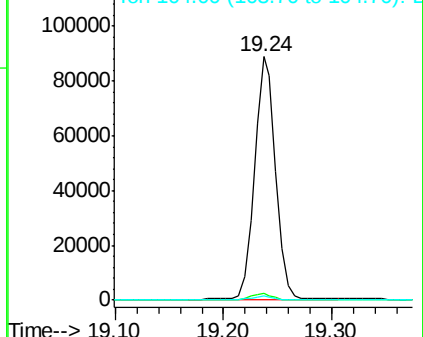
104 1.4 1.0 1.6

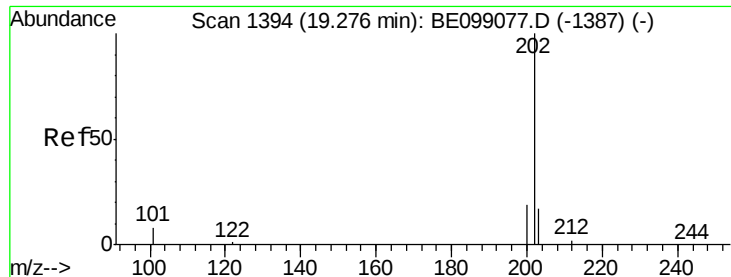


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

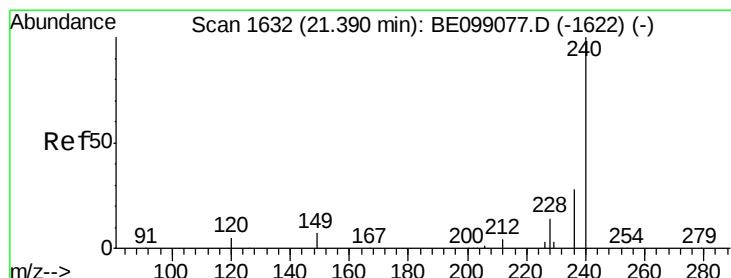
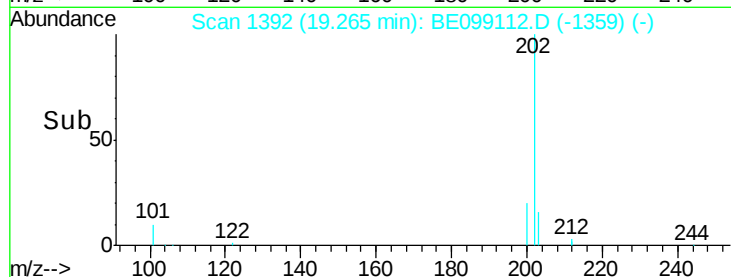
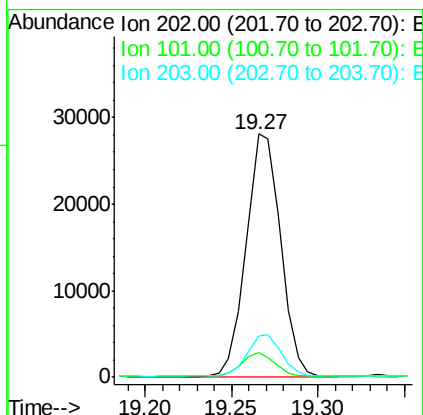
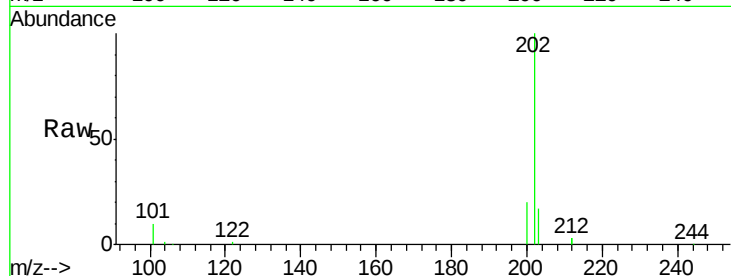




#26
 Fluoranthene
 Concen: 0.405 ng
 RT: 19.27 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

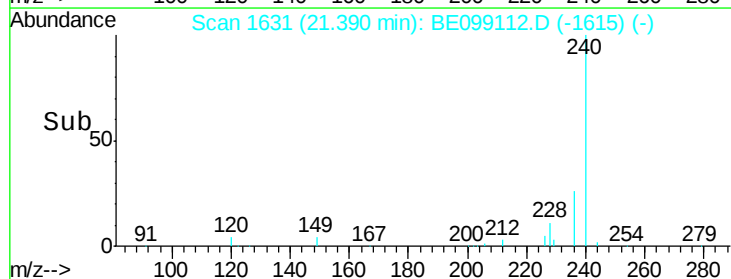
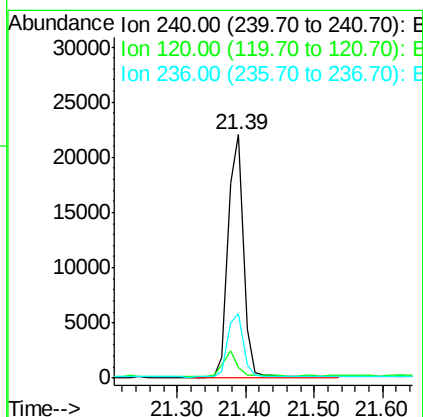
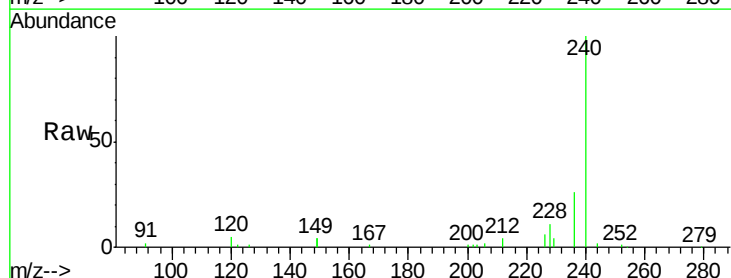
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW040-031919

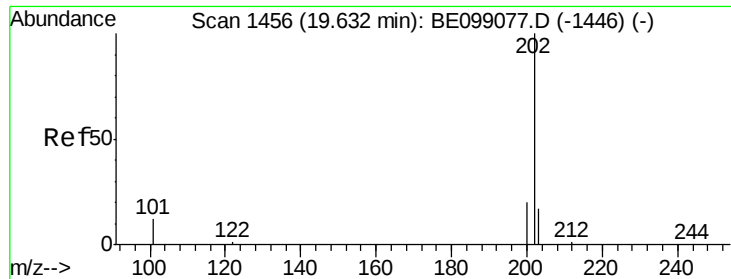
Tgt Ion: 202 Resp: 38865
 Ion Ratio Lower Upper
 202 100
 101 9.8 7.3 10.9
 203 17.2 13.4 20.2



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.39 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

Tgt Ion: 240 Resp: 34068
 Ion Ratio Lower Upper
 240 100
 120 4.6 5.0 7.4#
 236 26.4 22.7 34.1





#28

Pyrene

Concen: 0.358 ng

RT: 19.63 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

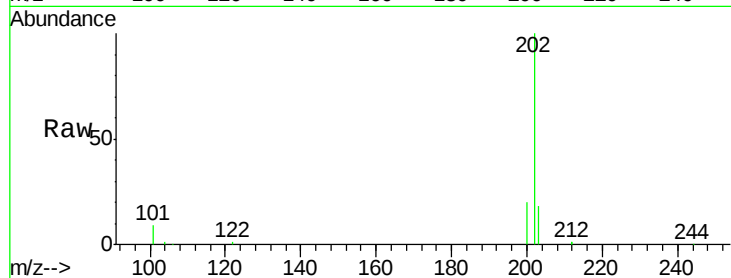
Instrument :

BNA_E

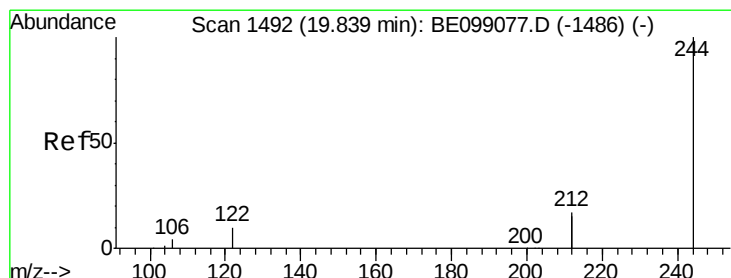
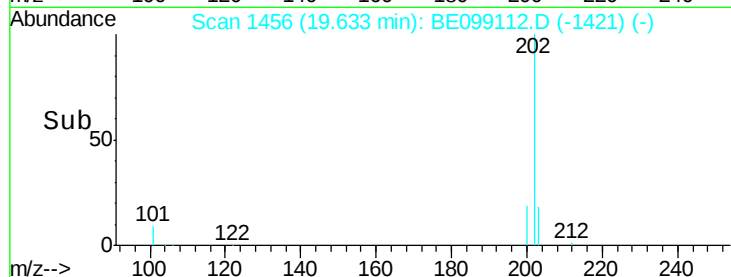
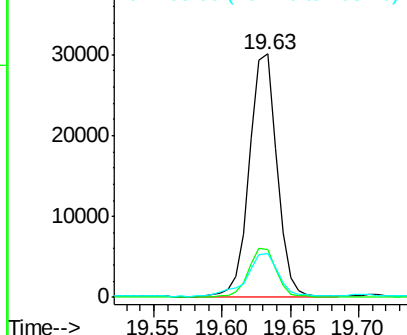
ClientSampleId :

PST-026-SW040-031919

Tgt Ion:	202	Resp:	41414
Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.0	25.6
203	20.4	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: 0.318 ng

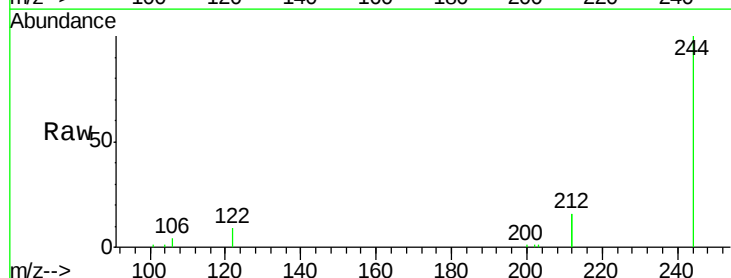
RT: 19.83 min Scan# 1491

Delta R.T. -0.00 min

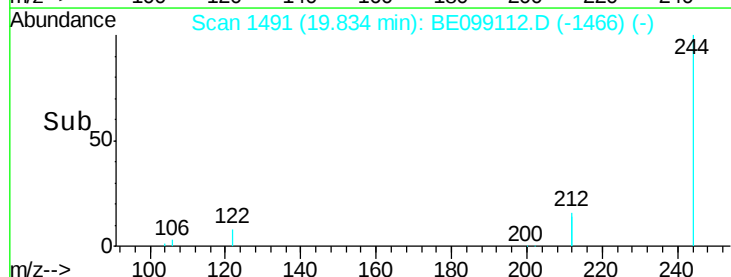
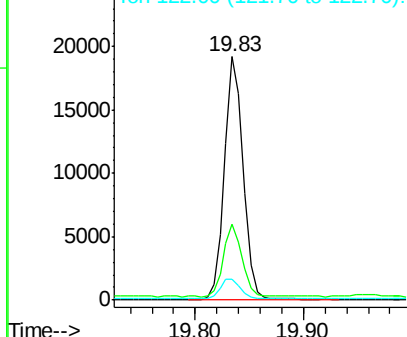
Lab File: BE099112.D

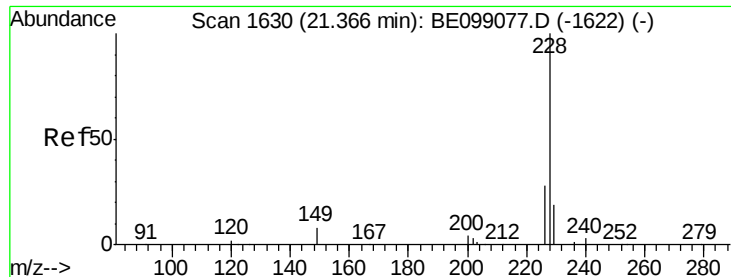
Acq: 23 Mar 2019 15:09

Tgt Ion:	244	Resp:	22890
Ion	Ratio	Lower	Upper
244	100		
212	31.2	29.4	44.2
122	8.6	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: 0.170 ng

RT: 21.37 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

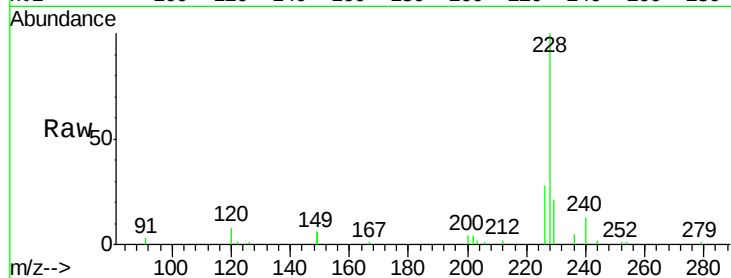
Tgt Ion:228 Resp: 20441

Ion Ratio Lower Upper

228 100

226 28.4 23.0 34.4

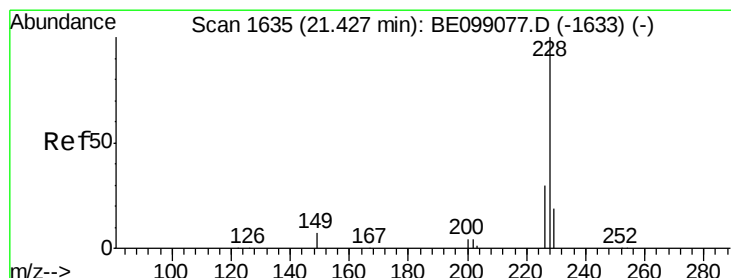
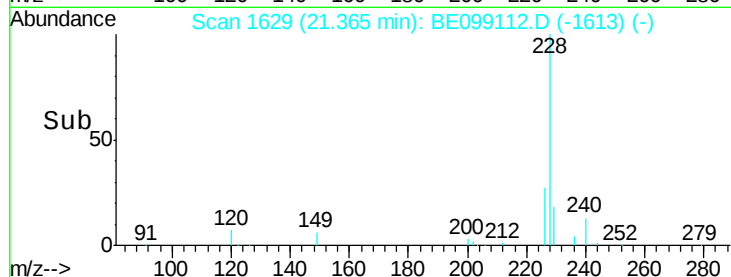
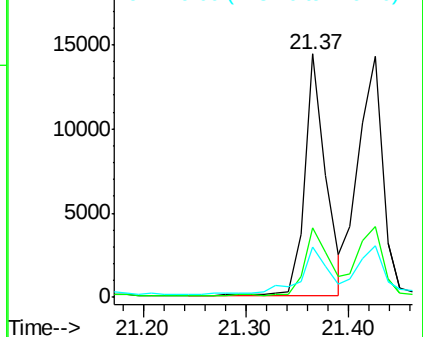
229 20.8 16.5 24.7



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: 0.192 ng

RT: 21.43 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

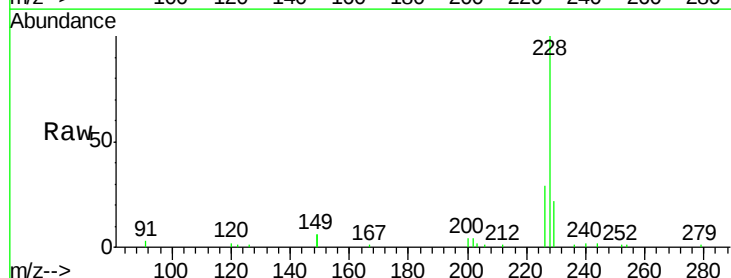
Tgt Ion:228 Resp: 23016

Ion Ratio Lower Upper

228 100

226 29.4 23.7 35.5

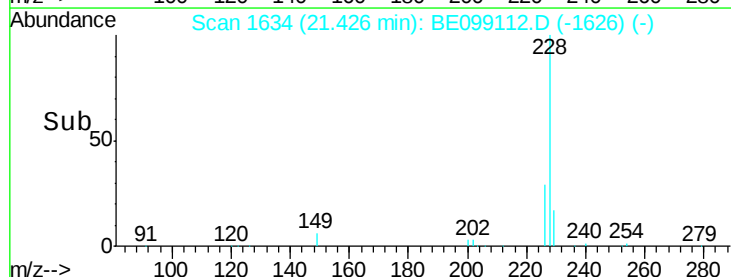
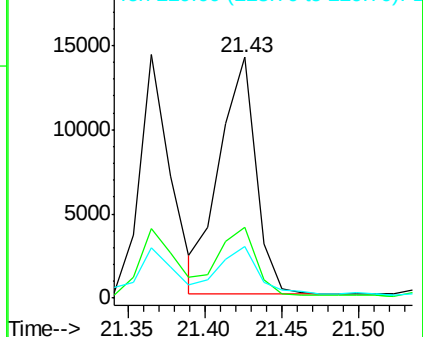
229 21.7 16.1 24.1

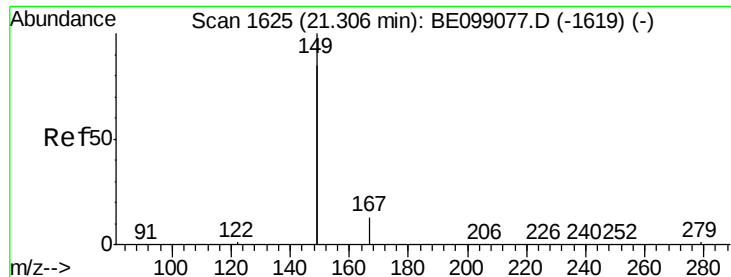


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.29 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

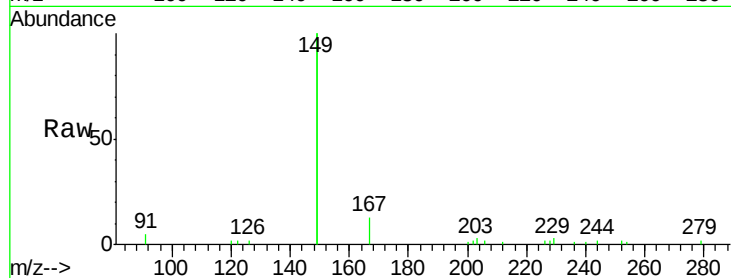
Tgt Ion:149 Resp: 18779

Ion Ratio Lower Upper

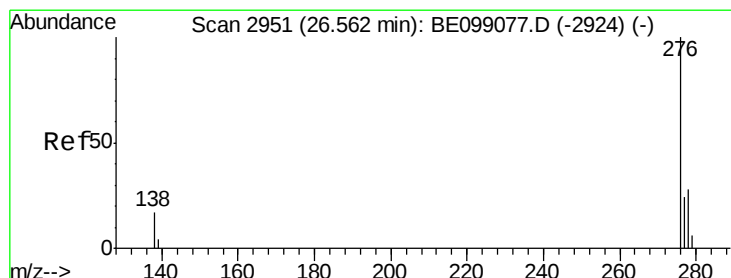
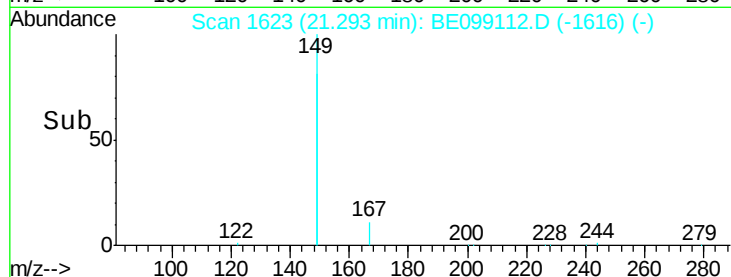
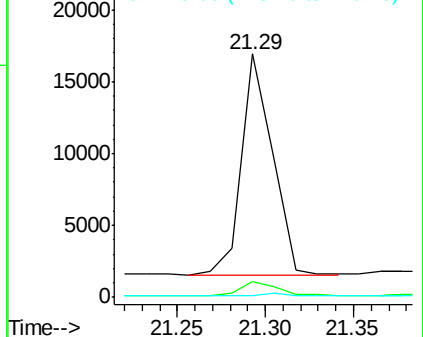
149 100

167 7.3 5.4 8.0

279 1.2 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: 0.087 ng

RT: 26.55 min Scan# 2946

Delta R.T. -0.01 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

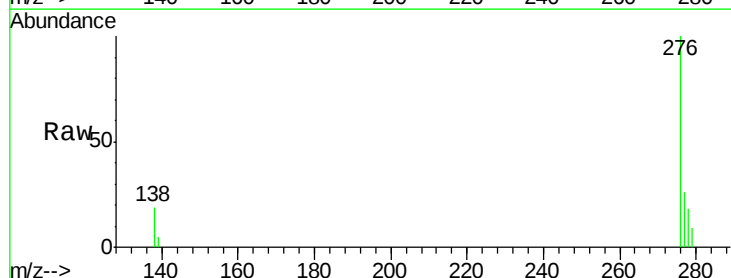
Tgt Ion:276 Resp: 11187

Ion Ratio Lower Upper

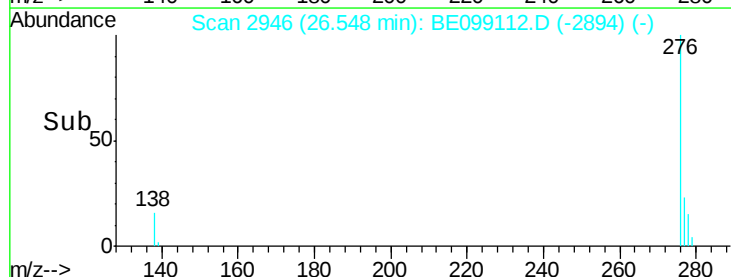
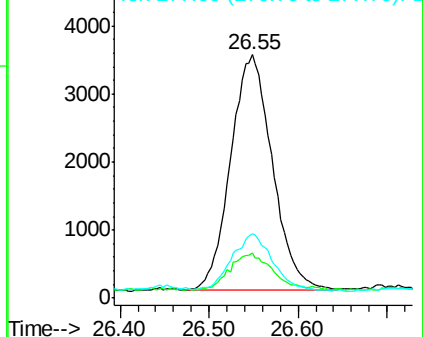
276 100

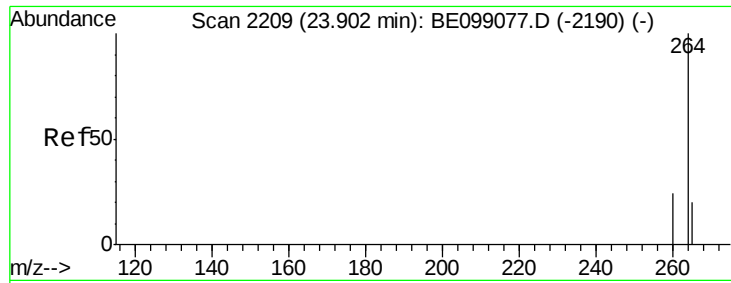
138 15.8 13.8 20.8

277 23.1 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

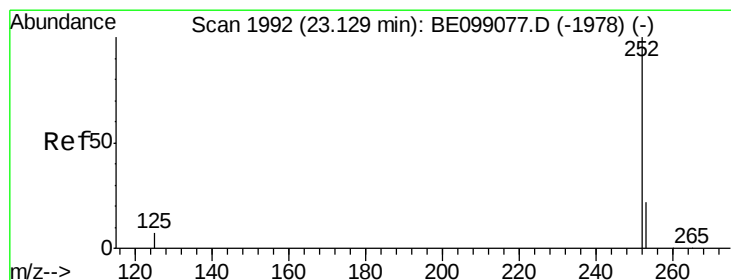
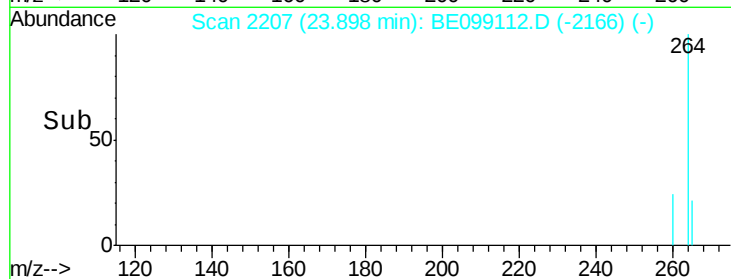
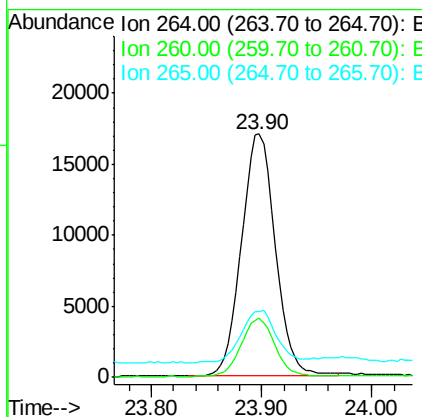
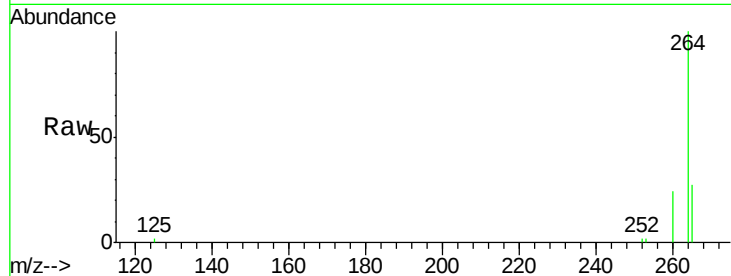




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.90 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

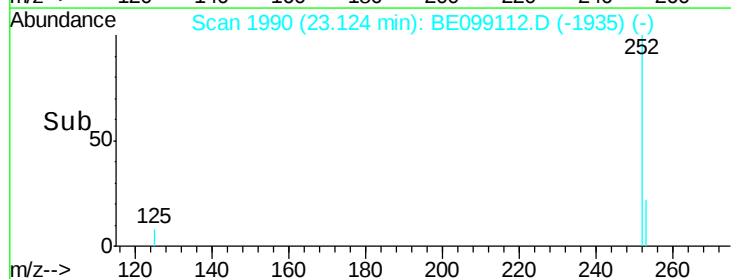
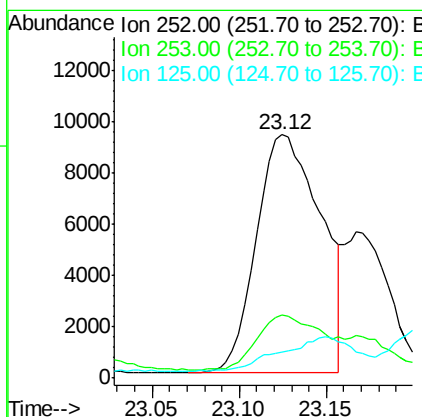
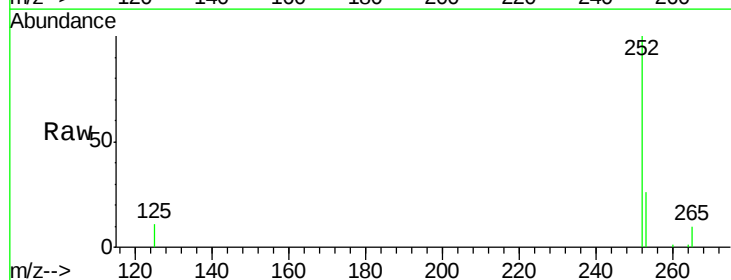
Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW040-031919

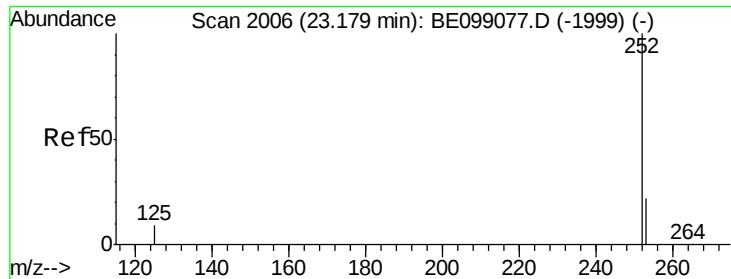
Tgt Ion: 264 Resp: 36246
 Ion Ratio Lower Upper
 264 100
 260 24.4 21.2 31.8
 265 27.0 24.6 36.8



#35
 Benzo(b)fluoranthene
 Concen: 0.191 ng
 RT: 23.12 min Scan# 1990
 Delta R.T. -0.00 min
 Lab File: BE099112.D
 Acq: 23 Mar 2019 15:09

Tgt Ion: 252 Resp: 23908
 Ion Ratio Lower Upper
 252 100
 253 25.8 18.2 27.2
 125 10.7 7.3 10.9





#36

Benzo(k)fluoranthene

Concen: 0.195 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.05 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

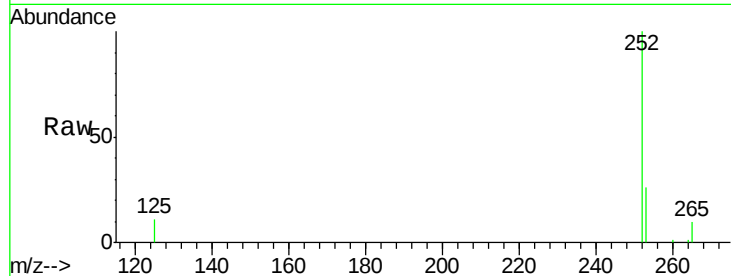
Tgt Ion:252 Resp: 23908

Ion Ratio Lower Upper

252 100

253 25.8 19.3 28.9

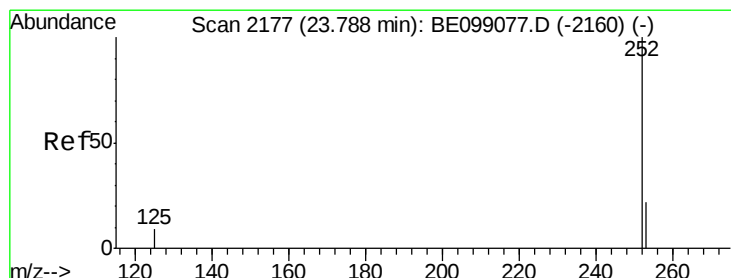
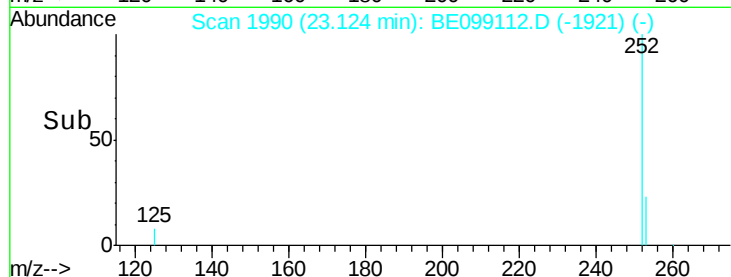
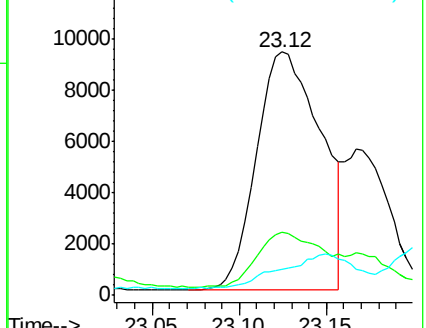
125 10.7 7.5 11.3



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: 0.153 ng

RT: 23.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

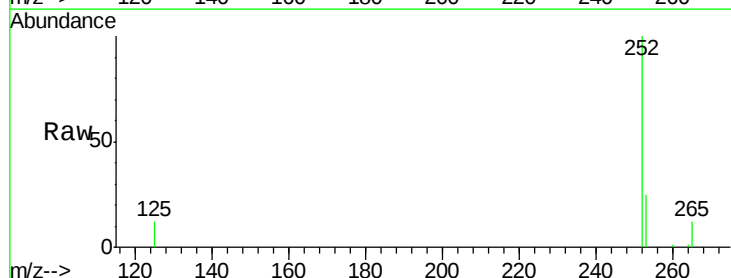
Tgt Ion:252 Resp: 17713

Ion Ratio Lower Upper

252 100

253 24.7 19.9 29.9

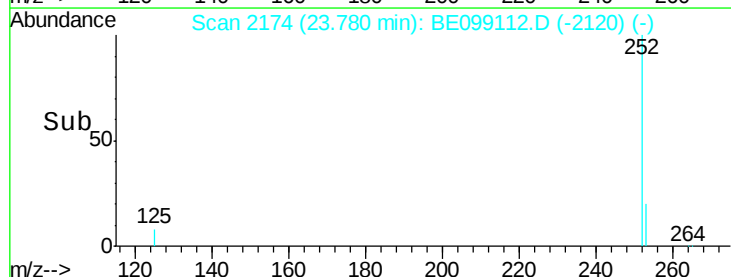
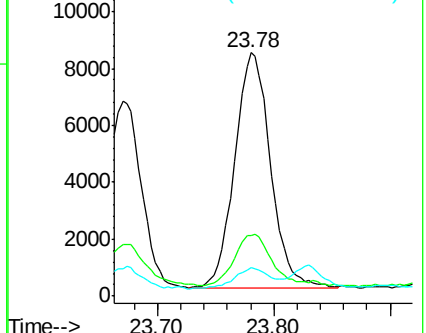
125 11.7 9.0 13.4

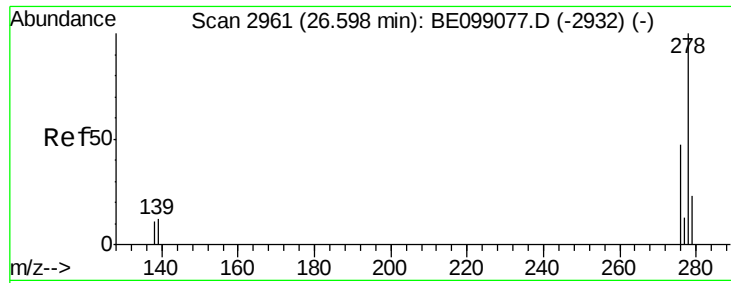


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.026 ng

RT: 26.57 min Scan# 2952

Delta R.T. -0.03 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

Instrument :

BNA_E

ClientSampleId :

PST-026-SW040-031919

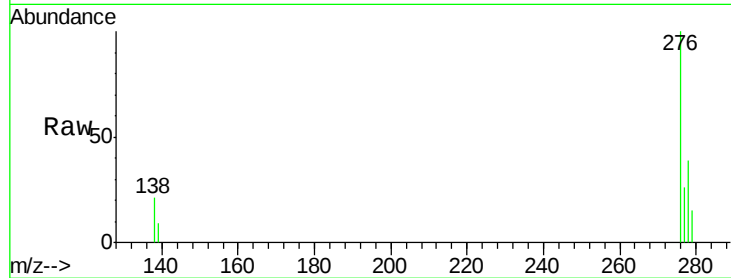
Tgt Ion: 278 Resp: 2891

Ion Ratio Lower Upper

278 100

139 23.5 11.8 17.6#

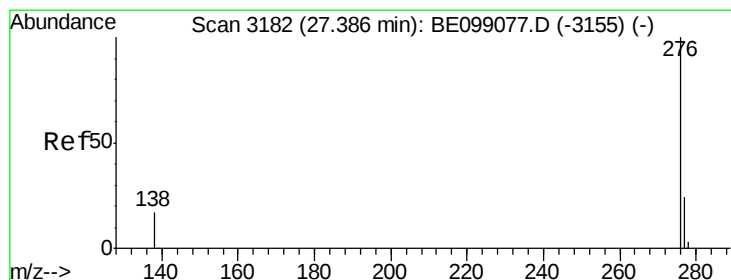
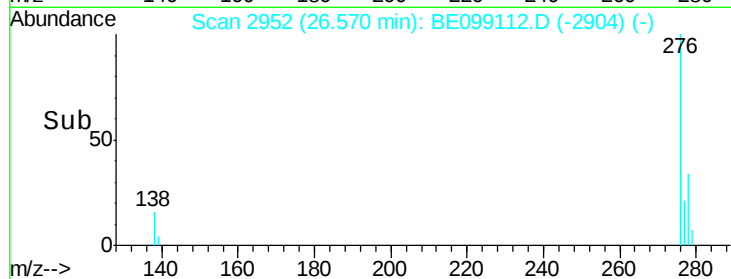
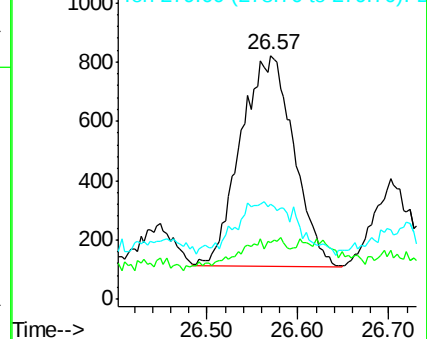
279 38.9 21.1 31.7#



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: 0.105 ng

RT: 27.37 min Scan# 3175

Delta R.T. -0.02 min

Lab File: BE099112.D

Acq: 23 Mar 2019 15:09

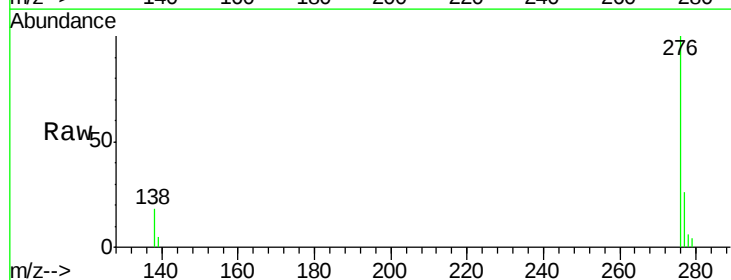
Tgt Ion: 276 Resp: 12207

Ion Ratio Lower Upper

276 100

277 26.0 20.4 30.6

138 17.8 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

