

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE062119\
 Data File : BE100136.D
 Acq On : 21 Jun 2019 15:04
 Operator : JU/SJ
 Sample : K3428-17
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B046-061319

Quant Time: Jun 22 02:02:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 19 15:07:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	438	0.40	ng	-0.01
7) Naphthalene-d8	10.55	136	1597	0.40	ng	0.01
13) Acenaphthene-d10	14.40	164	1683	0.40	ng	-0.01
19) Phenanthrene-d10	17.15	188	5930	0.40	ng	-0.01
27) Chrysene-d12	21.34	240	8303	0.40	ng	0.00
34) Perylene-d12	23.83	264	9432	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.30	112	346	0.38	ng	0.00
5) Phenol-d6	6.92	99	516	0.41	ng	-0.01
8) Nitrobenzene-d5	8.94	82	404	0.26	ng	0.03
11) 2-Methylnaphthalene-d10	12.17	152	65	0.02	ng	0.01
14) 2,4,6-Tribromophenol	15.90	330	329	0.35	ng	-0.01
15) 2-Fluorobiphenyl	13.04	172	1776	0.27	ng	0.00
25) Fluoranthene-d10	19.19	212	2040	0.02	ng	0.00
29) Terphenyl-d14	19.79	244	5555	0.33	ng	-0.02

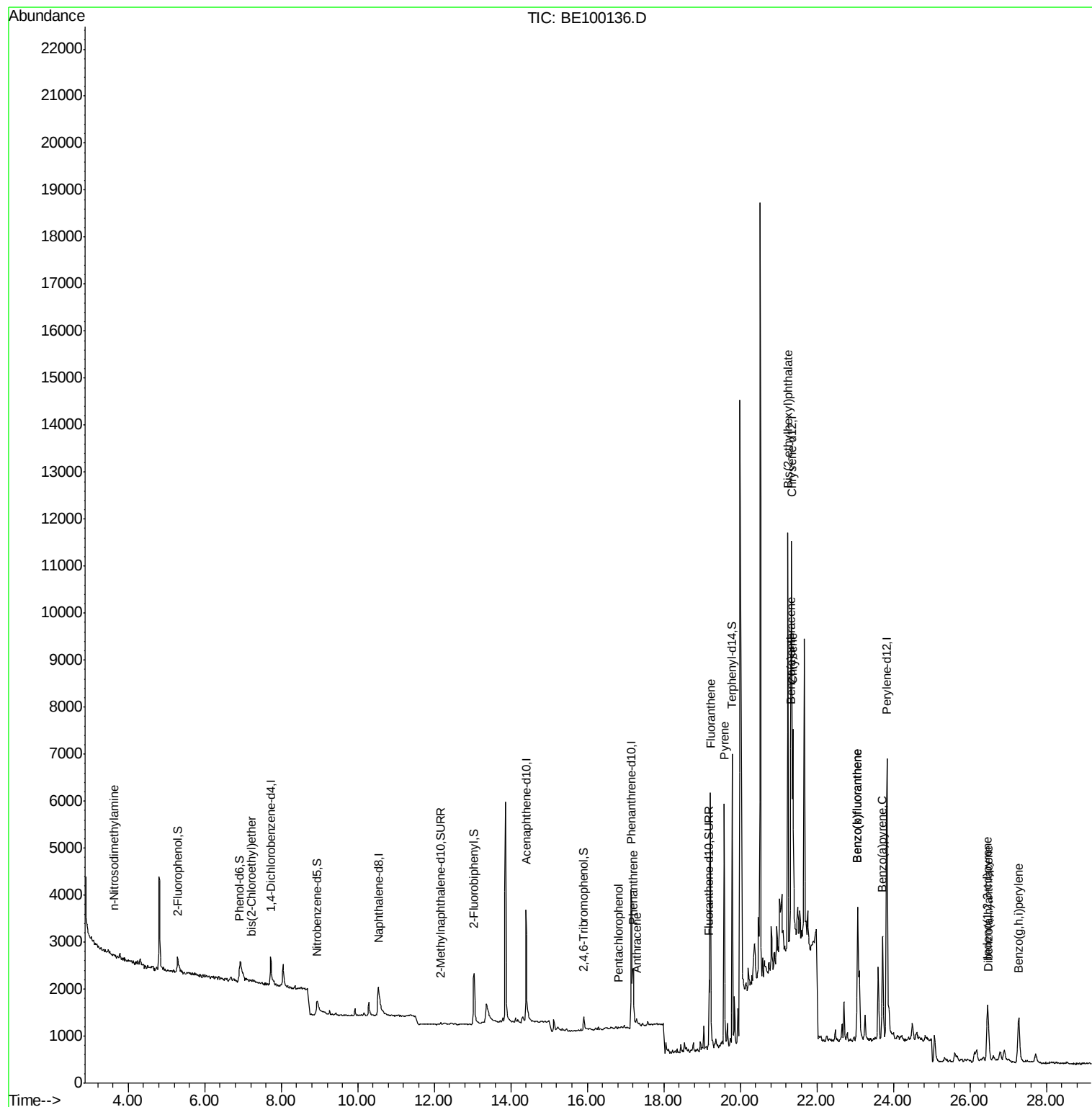
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.63	42	30	0.406	ng	# 100
6) bis(2-Chloroethyl)ether	7.22	93	6	0.038	ng	# 1
22) Pentachlorophenol	16.81	266	19	0.257	ng	95
23) Phenanthrene	17.20	178	1573	0.111	ng	97
24) Anthracene	17.30	178	260	0.022	ng	95
26) Fluoranthene	19.22	202	5615	0.246	ng	100
28) Pyrene	19.58	202	5254	0.246	ng	96
30) Benzo(a)anthracene	21.32	228	3865	0.156	ng	# 92
31) Chrysene	21.38	228	4291	0.150	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.25	149	10187	0.437	ng	# 96
33) Indeno(1,2,3-cd)pyrene	26.46	276	2471	0.077	ng	# 96
35) Benzo(b)fluoranthene	23.06	252	5436	0.196	ng	# 77
36) Benzo(k)fluoranthene	23.06	252	5436	0.173	ng	# 77
37) Benzo(a)pyrene	23.72	252	3428	0.128	ng	# 79
38) Dibenzo(a,h)anthracene	26.48	278	679	0.025	ng	# 35
39) Benzo(g,h,i)perylene	27.28	276	2547	0.090	ng	# 89

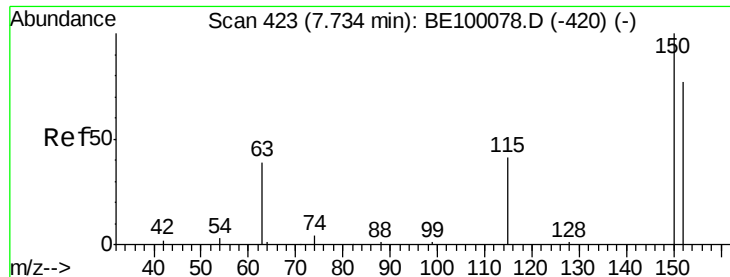
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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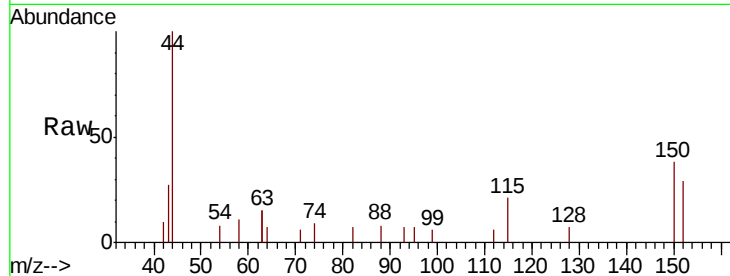


#1

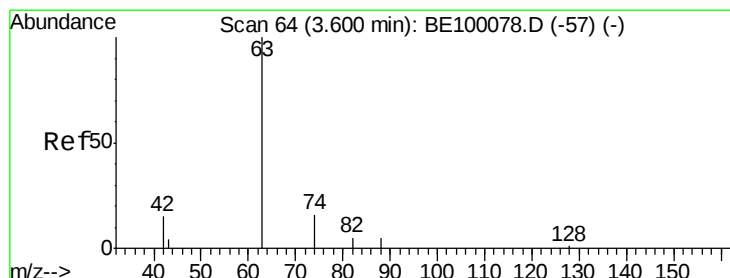
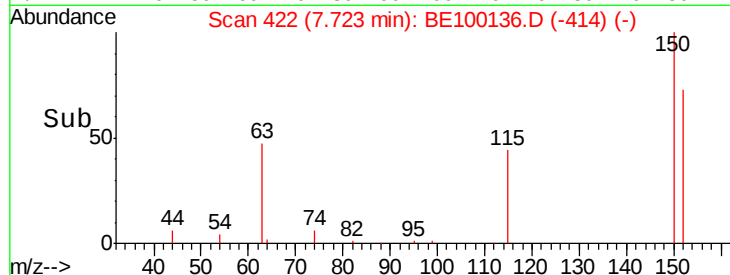
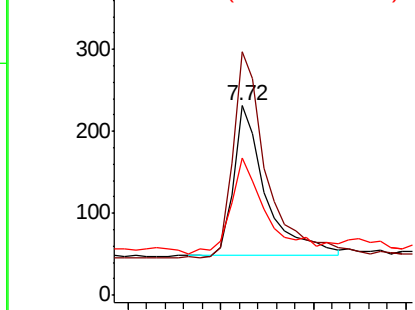
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.72 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

Instrument :
BNA_E
ClientSampleId :
PST-084-B046-061319

Tgt Ion: 152 Resp: 438
Ion Ratio Lower Upper
152 100
150 128.6 99.8 149.8
115 72.7 51.3 76.9



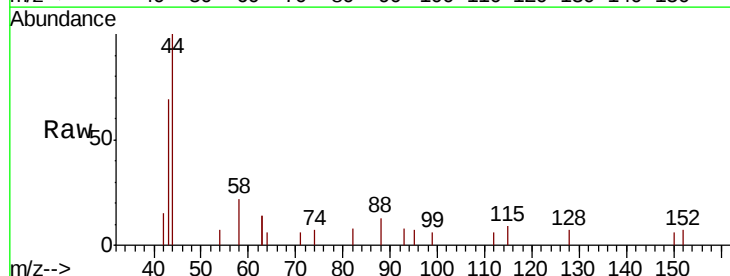
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



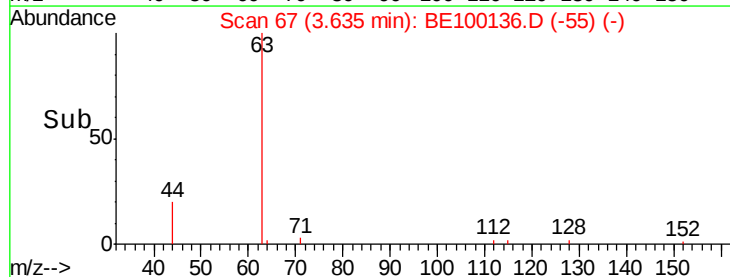
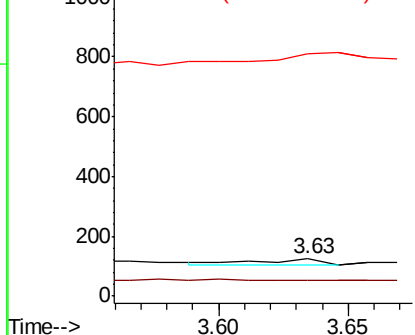
#3

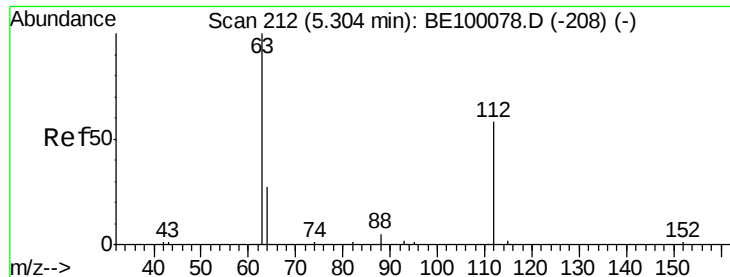
n-Nitrosodimethylamine
Concen: 0.406 ng
RT: 3.63 min Scan# 67
Delta R.T. 0.04 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

Tgt Ion: 42 Resp: 30
Ion Ratio Lower Upper
42 100
74 13.3 0.0 0.0#
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE1
Ion 74.00 (73.70 to 74.70): BE1
Ion 44.00 (43.70 to 44.70): BE1





#4

2-Fluorophenol

Concen: 0.381 ng

RT: 5.30 min Scan# 212

Delta R.T. 0.00 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

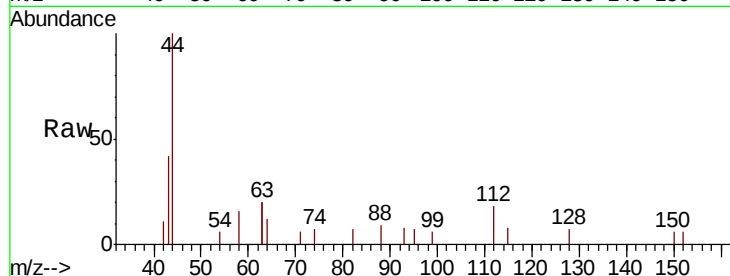
Tgt Ion: 112 Resp: 346

Ion Ratio Lower Upper

112 100

64 65.0 22.0 33.0#

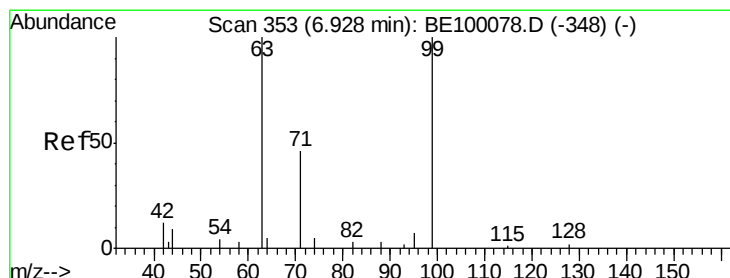
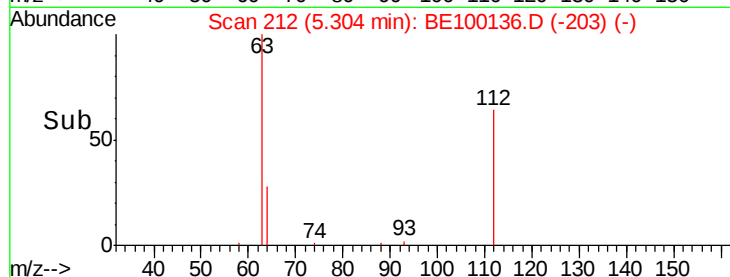
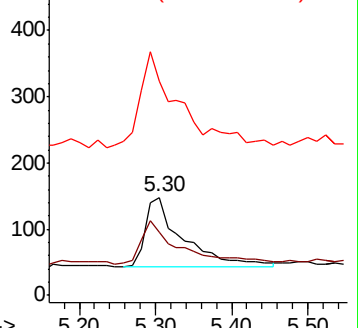
63 147.7 121.8 182.6



Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1



#5

Phenol-d6

Concen: 0.413 ng

RT: 6.92 min Scan# 352

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

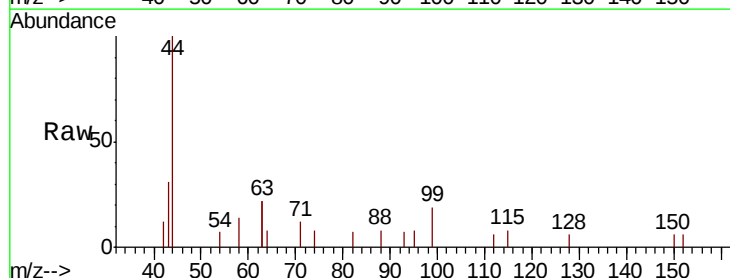
Tgt Ion: 99 Resp: 516

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

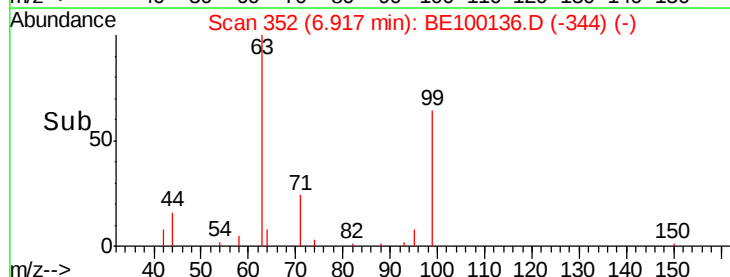
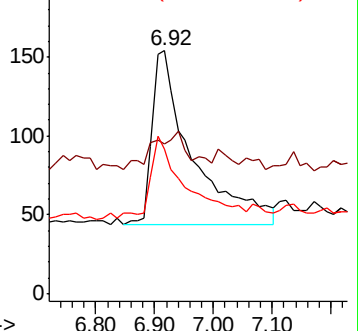
71 40.3 37.6 56.4

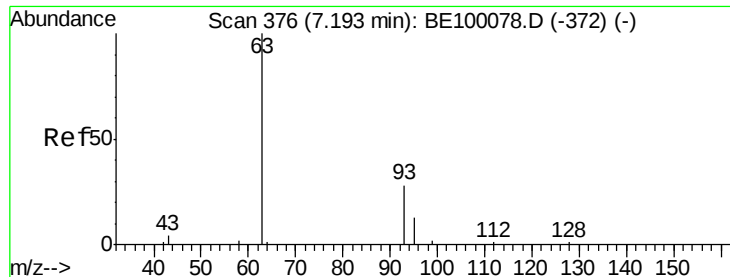


Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1





#6

bis(2-Chloroethyl)ether

Concen: 0.038 ng

RT: 7.22 min Scan# 378

Delta R.T. 0.02 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

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PST-084-B046-061319

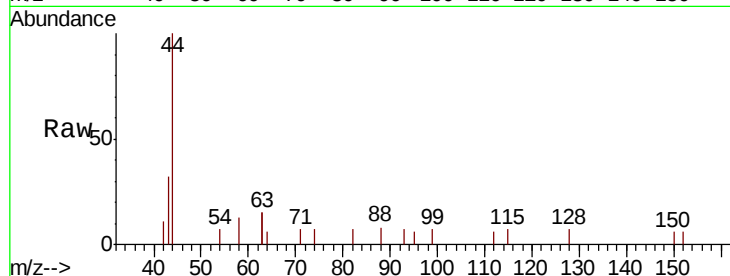
Tgt Ion: 93 Resp: 6

Ion Ratio Lower Upper

93 100

63 983.3 200.0 300.0#

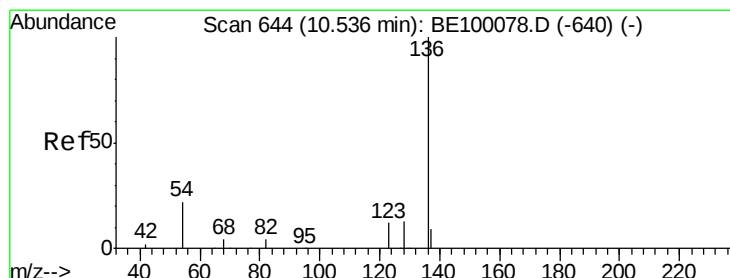
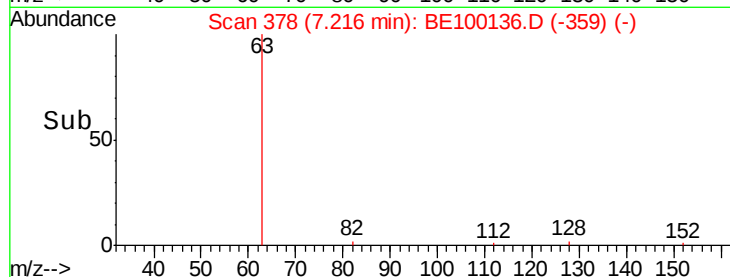
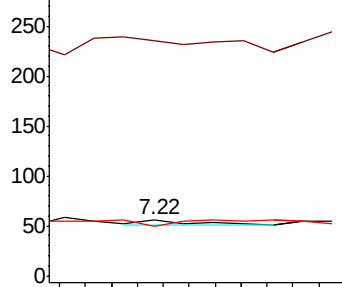
95 0.0 24.0 36.0#



Abundance Ion 93.00 (92.70 to 93.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Ion 95.00 (94.70 to 95.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.55 min Scan# 645

Delta R.T. 0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Tgt Ion: 136 Resp: 1597

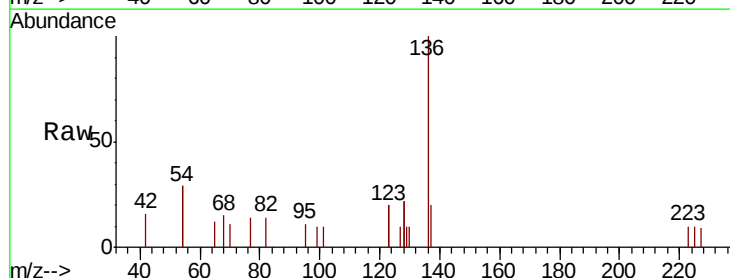
Ion Ratio Lower Upper

136 100

137 19.6 11.6 17.4#

54 58.4 33.9 50.9#

68 15.1 7.8 11.8#

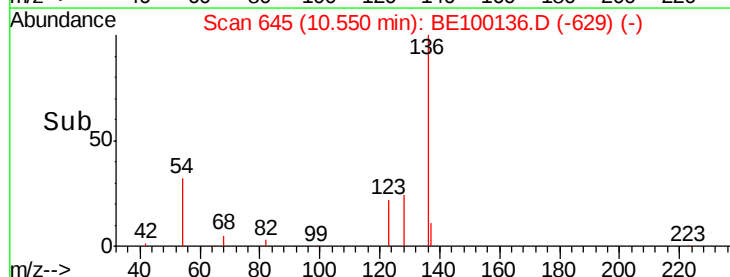
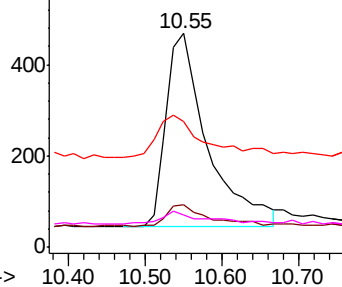


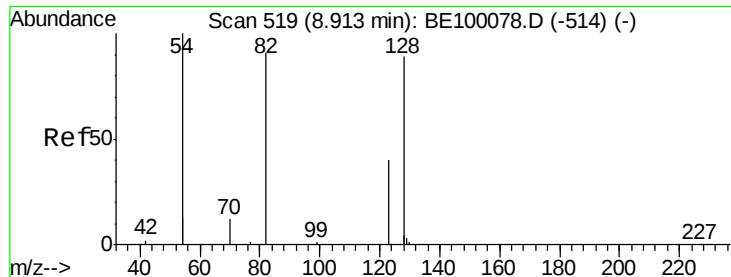
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.261 ng

RT: 8.94 min Scan# 521

Delta R.T. 0.03 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

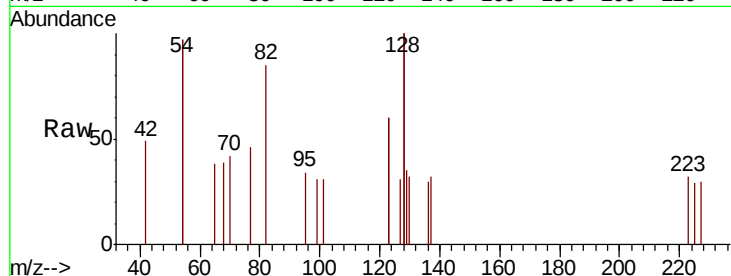
Tgt Ion: 82 Resp: 404

Ion Ratio Lower Upper

82 100

128 234.4 128.0 192.0#

54 226.6 143.4 215.0#

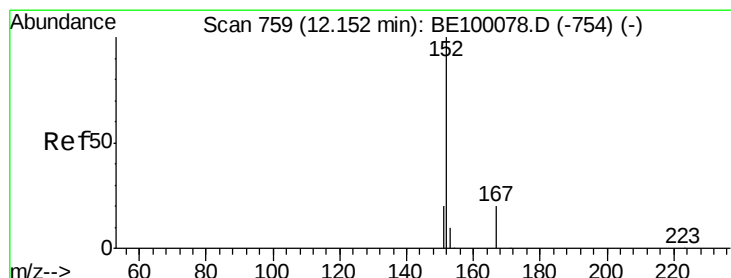
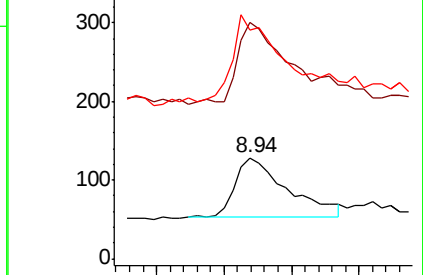
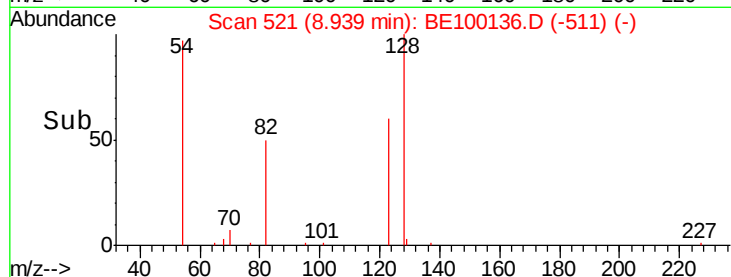


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.021 ng

RT: 12.17 min Scan# 760

Delta R.T. 0.01 min

Lab File: BE100136.D

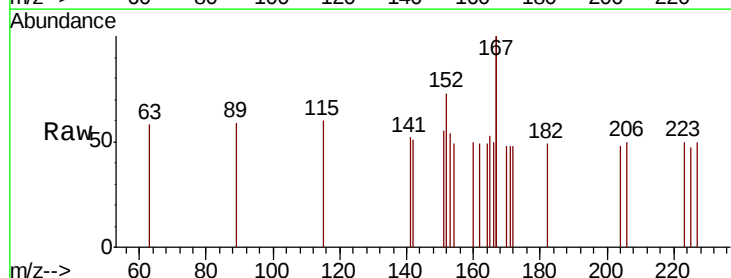
Acq: 21 Jun 2019 15:04

Tgt Ion: 152 Resp: 65

Ion Ratio Lower Upper

152 100

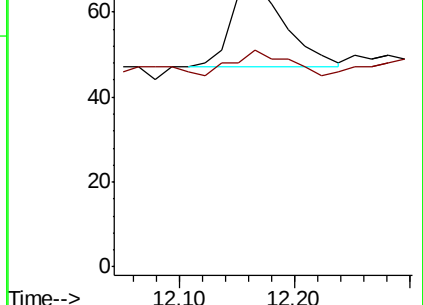
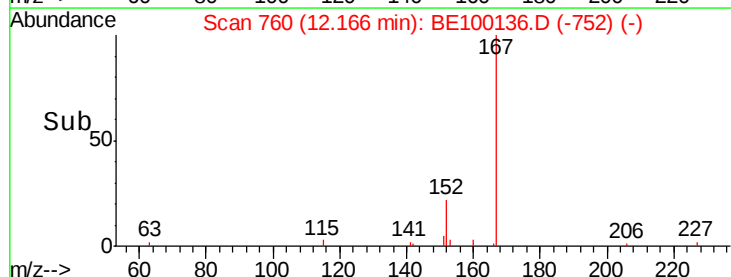
151 29.2 16.3 24.5#

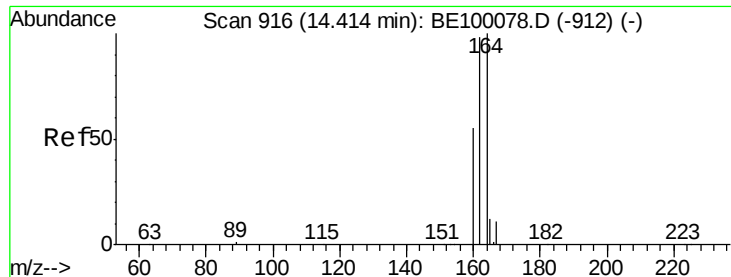


Abundance Ion 152.00 (151.70 to 152.70): BE1

Ion 151.00 (150.70 to 151.70): BE1

Time-->

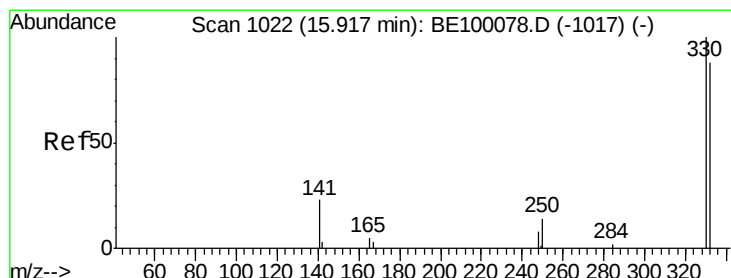
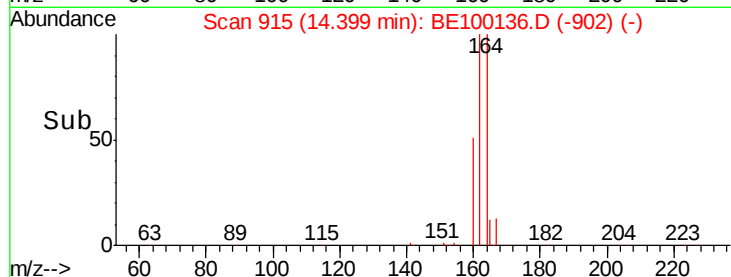
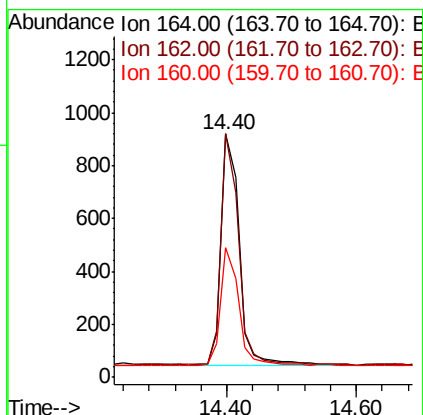
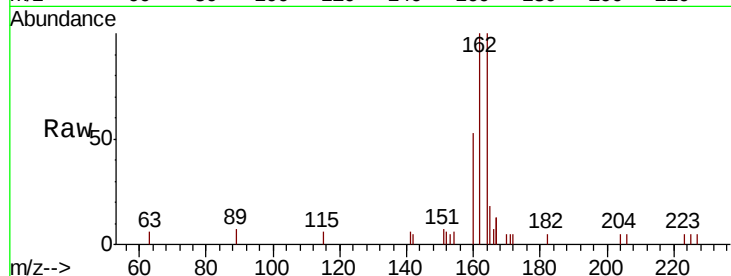




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.40 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

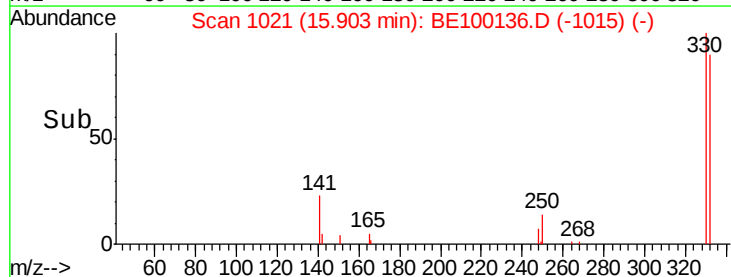
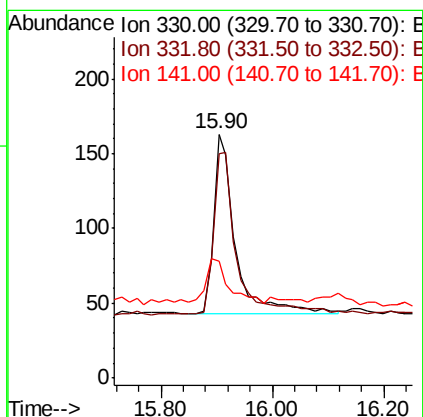
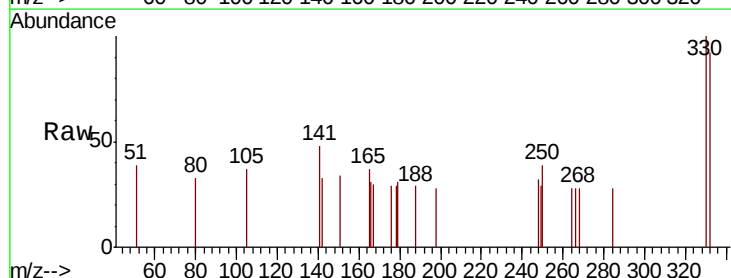
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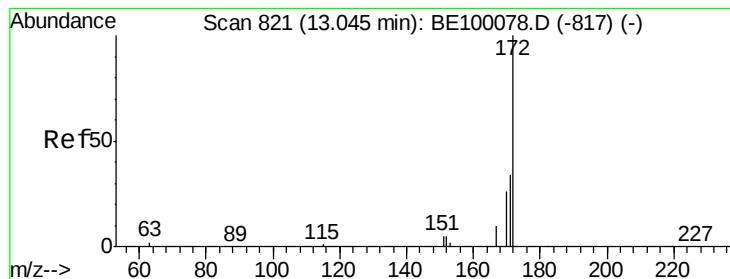
Tgt Ion:164 Resp: 1683
 Ion Ratio Lower Upper
 164 100
 162 99.9 78.2 117.2
 160 53.5 45.6 68.4



#14
 2,4,6-Tribromophenol
 Concen: 0.354 ng
 RT: 15.90 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

Tgt Ion:330 Resp: 329
 Ion Ratio Lower Upper
 330 100
 332 0.0 73.3 109.9#
 141 25.2 22.2 33.2





#15

2-Fluorobiphenyl

Concen: 0.268 ng

RT: 13.04 min Scan# 821

Delta R.T. -0.00 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

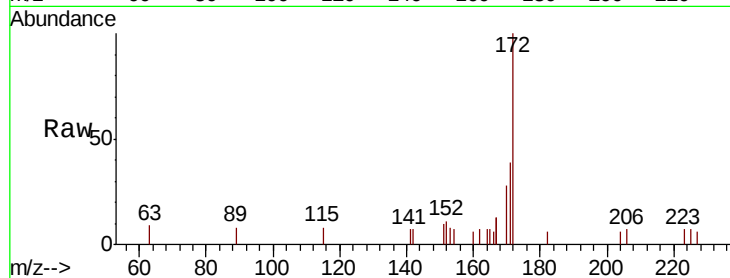
Tgt Ion:172 Resp: 1776

Ion Ratio Lower Upper

172 100

171 39.4 29.8 44.8

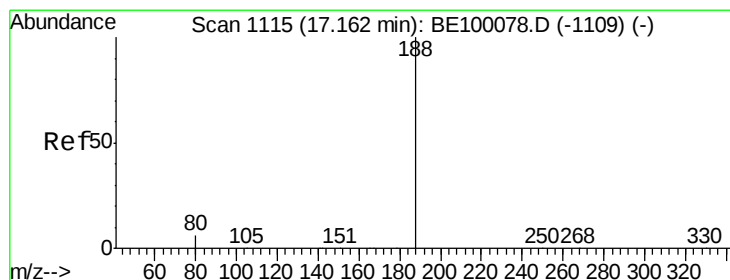
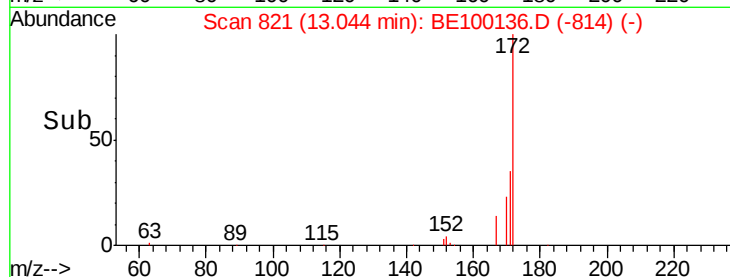
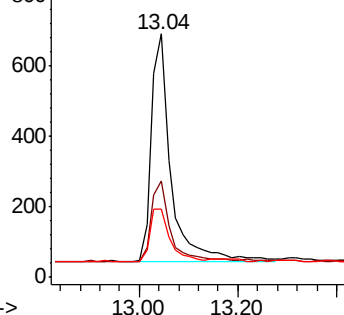
170 28.0 23.2 34.8



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.15 min Scan# 1114

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

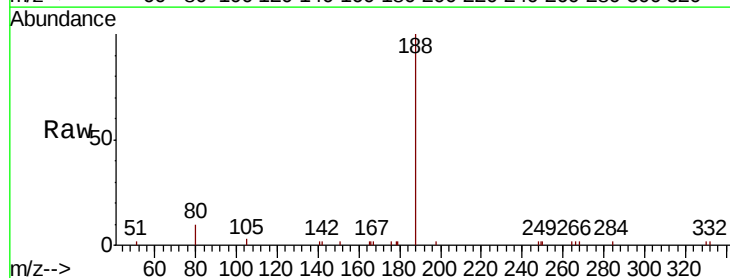
Tgt Ion:188 Resp: 5930

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

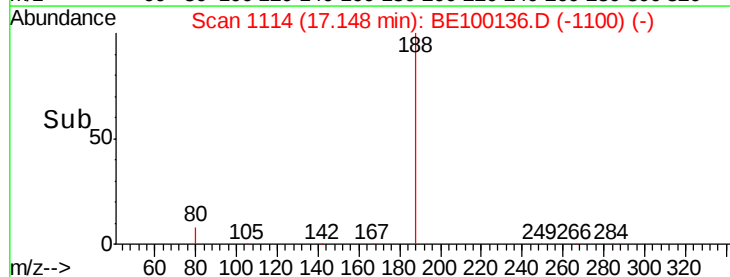
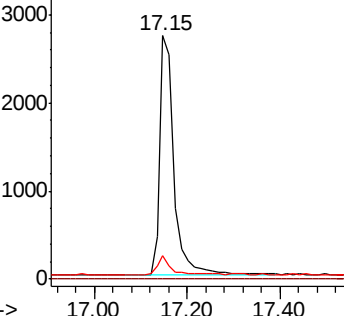
80 9.8 6.3 9.5#

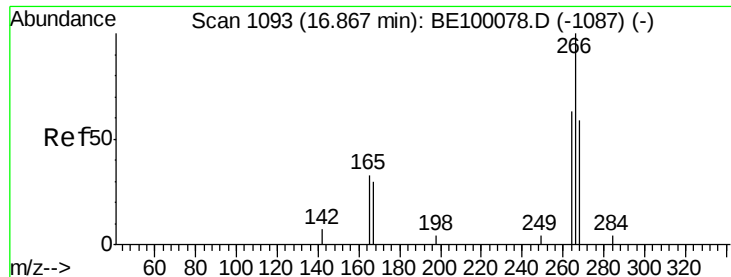


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1





#22

Pentachlorophenol

Concen: 0.257 ng

RT: 16.81 min Scan# 1089

Delta R.T. -0.05 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

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PST-084-B046-061319

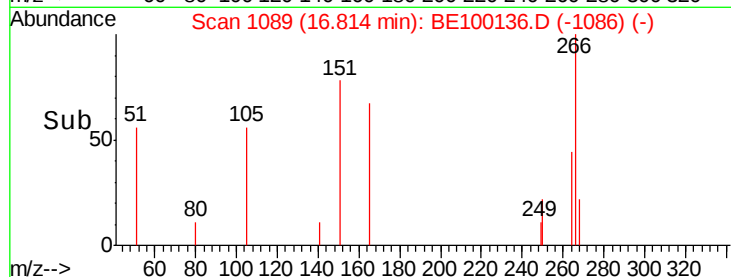
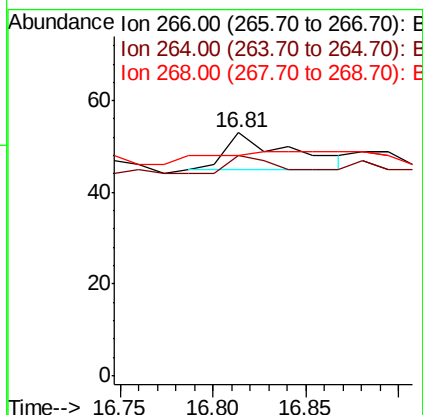
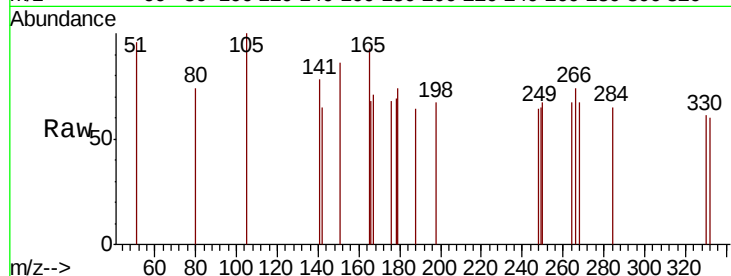
Tgt Ion: 266 Resp: 19

Ion Ratio Lower Upper

266 100

264 90.6 67.8 101.6

268 90.6 70.0 105.0



#23

Phenanthrene

Concen: 0.111 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

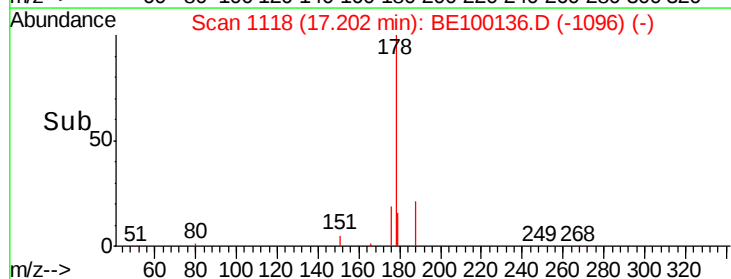
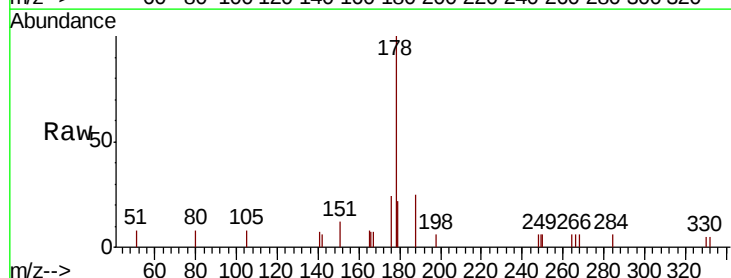
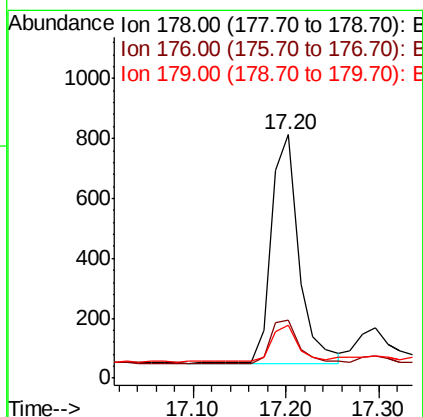
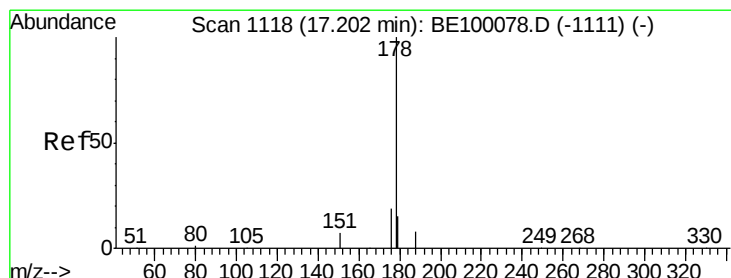
Tgt Ion: 178 Resp: 1573

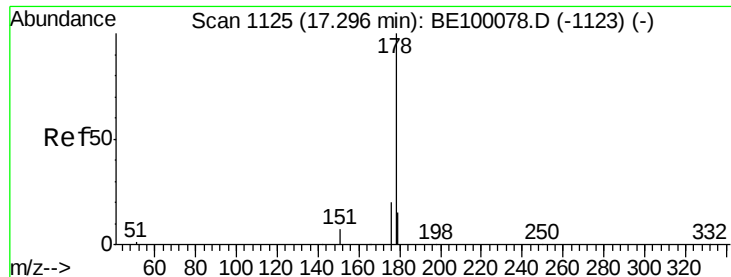
Ion Ratio Lower Upper

178 100

176 21.0 15.9 23.9

179 14.9 13.1 19.7





#24

Anthracene

Concen: 0.022 ng

RT: 17.30 min Scan# 1125

Delta R.T. 0.00 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

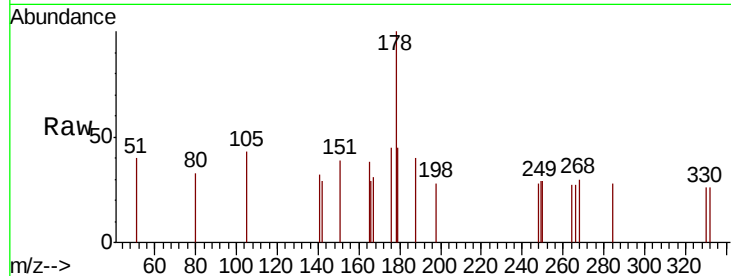
Tgt Ion:178 Resp: 260

Ion Ratio Lower Upper

178 100

176 17.7 15.8 23.6

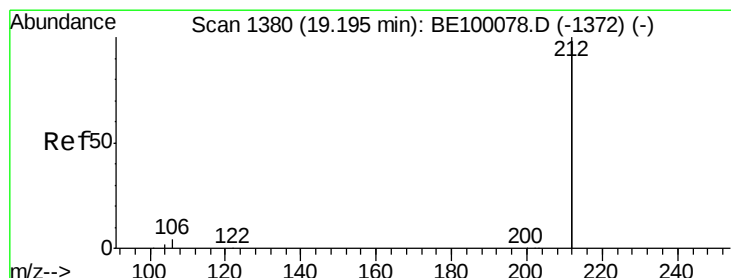
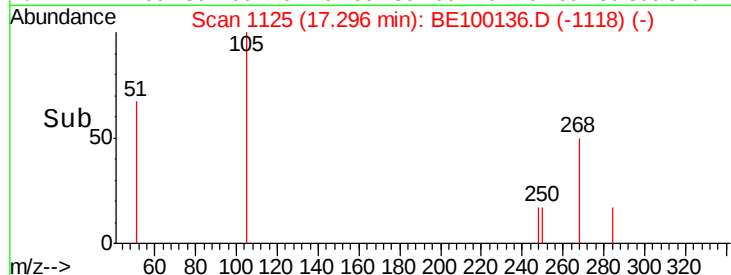
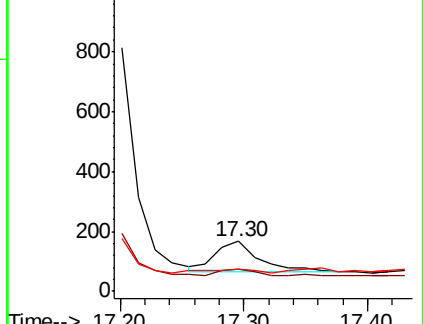
179 12.7 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.024 ng

RT: 19.19 min Scan# 1379

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

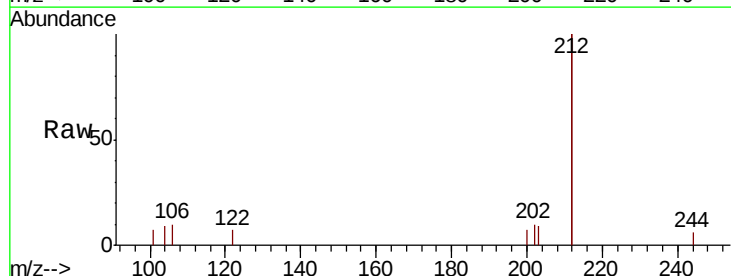
Tgt Ion:212 Resp: 2040

Ion Ratio Lower Upper

212 100

106 2.8 1.4 2.0#

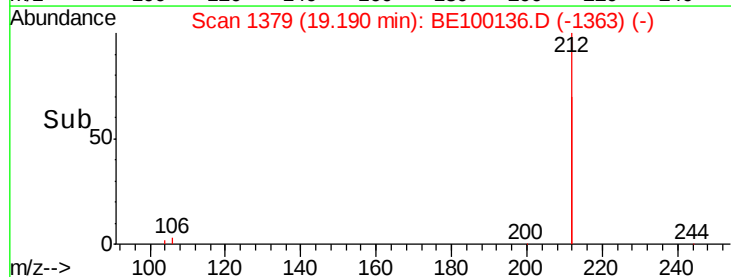
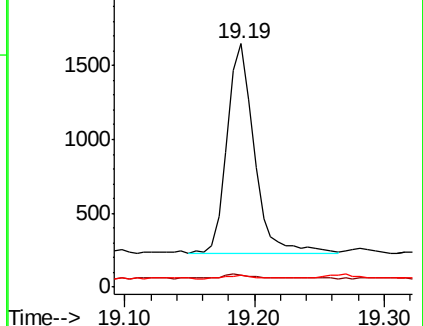
104 1.7 0.8 1.2#

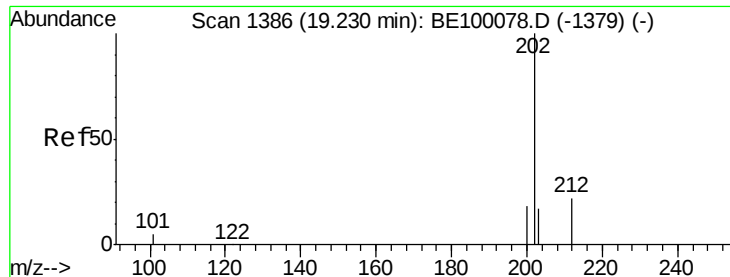


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

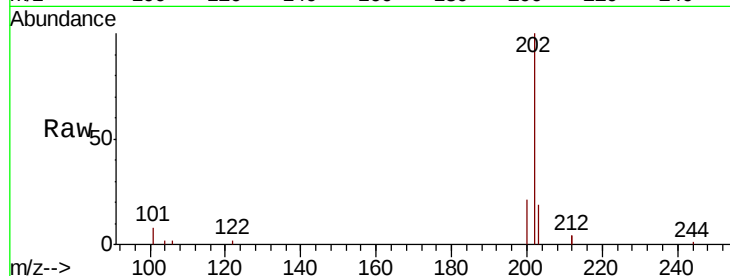




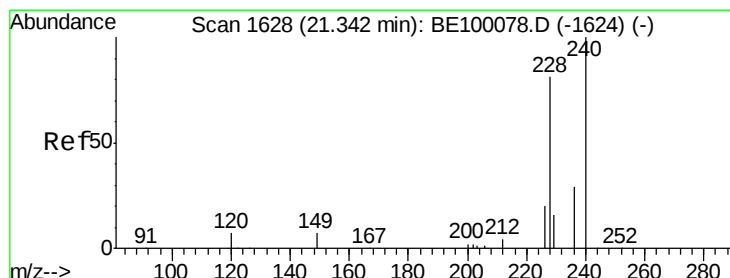
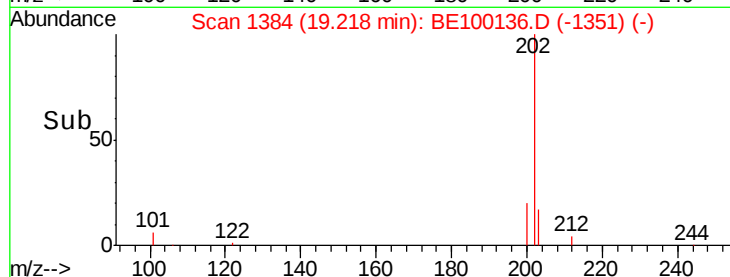
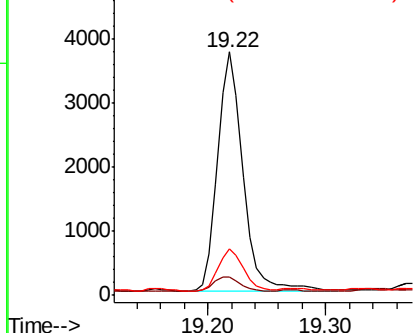
#26
Fluoranthene
Concen: 0.246 ng
RT: 19.22 min Scan# 1384
Delta R.T. -0.01 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

Instrument :
BNA_E
ClientSampleId :
PST-084-B046-061319

Tgt Ion: 202 Resp: 5615
Ion Ratio Lower Upper
202 100
101 6.4 5.0 7.4
203 17.0 13.7 20.5

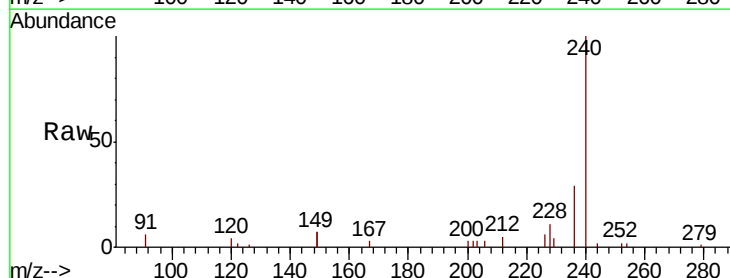


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

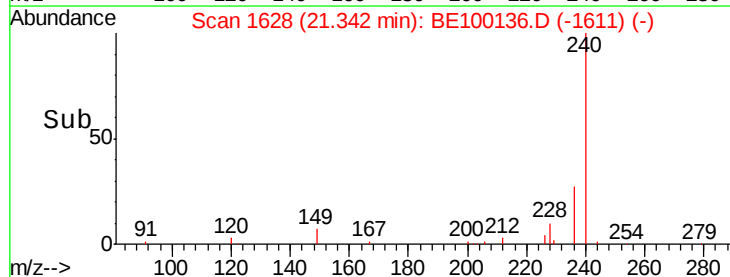
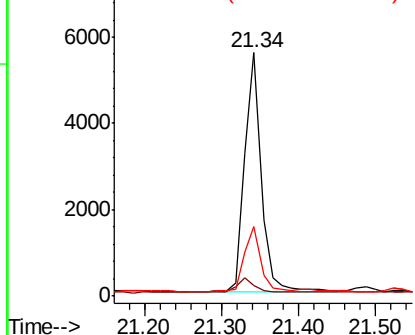


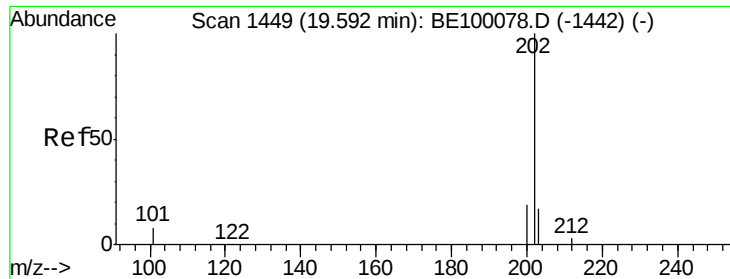
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.34 min Scan# 1628
Delta R.T. 0.00 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

Tgt Ion: 240 Resp: 8303
Ion Ratio Lower Upper
240 100
120 4.2 6.6 10.0#
236 28.8 23.8 35.6



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

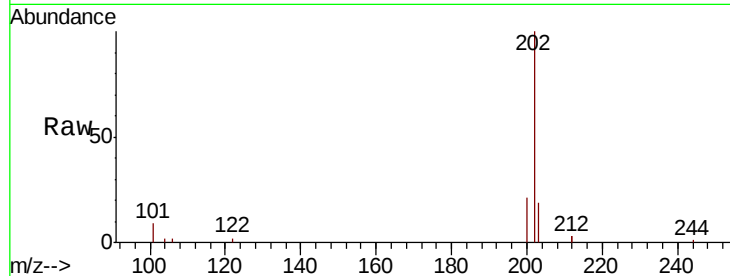




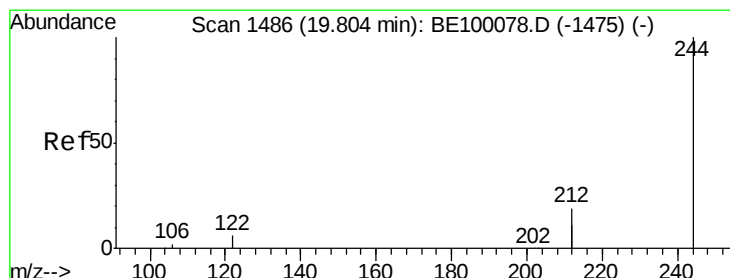
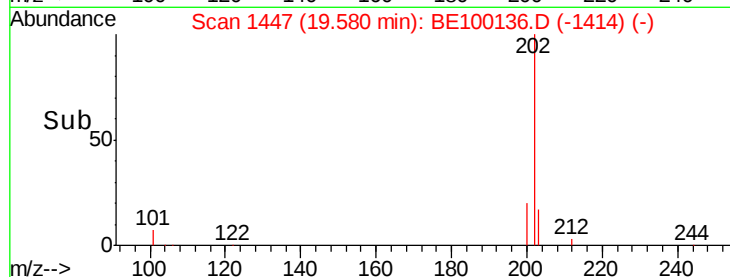
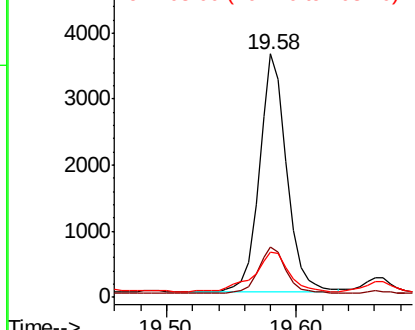
#28
 Pyrene
 Concen: 0.246 ng
 RT: 19.58 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B046-061319

Tgt Ion: 202 Resp: 5254
 Ion Ratio Lower Upper
 202 100
 200 19.4 15.6 23.4
 203 20.6 13.9 20.9

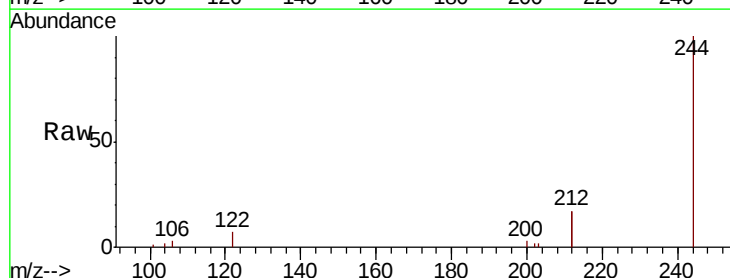


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

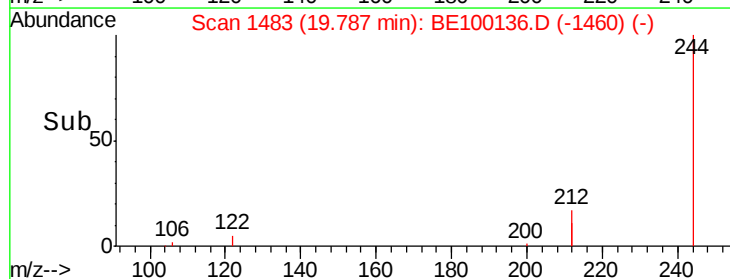
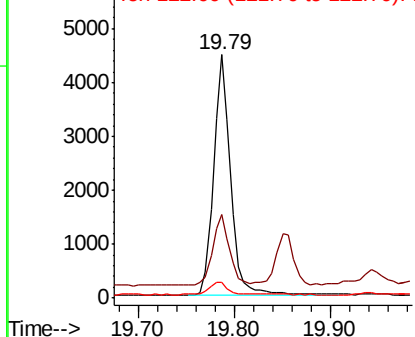


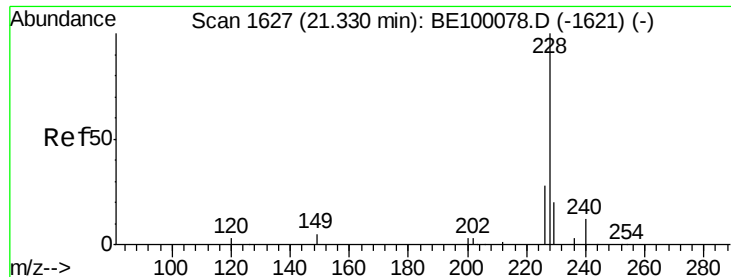
#29
 Terphenyl-d14
 Concen: 0.335 ng
 RT: 19.79 min Scan# 1483
 Delta R.T. -0.02 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

Tgt Ion: 244 Resp: 5555
 Ion Ratio Lower Upper
 244 100
 212 34.1 29.8 44.8
 122 6.6 6.1 9.1



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: 0.156 ng

RT: 21.32 min Scan# 1626

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

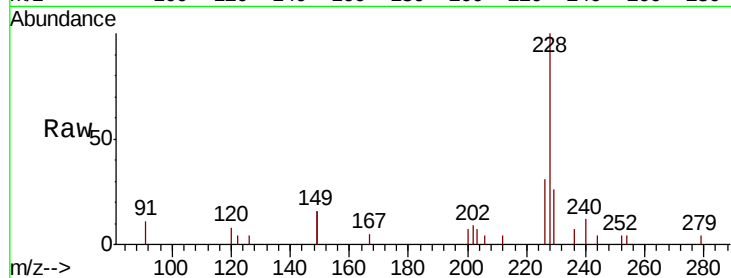
Tgt Ion:228 Resp: 3865

Ion Ratio Lower Upper

228 100

226 31.0 23.0 34.4

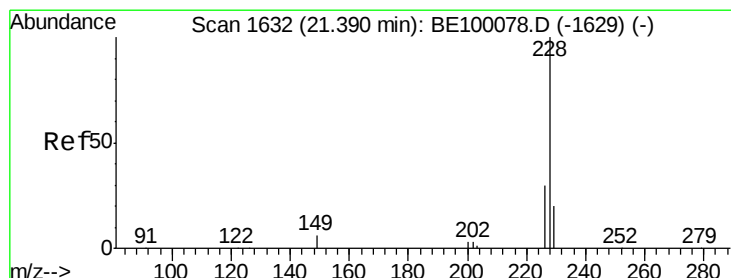
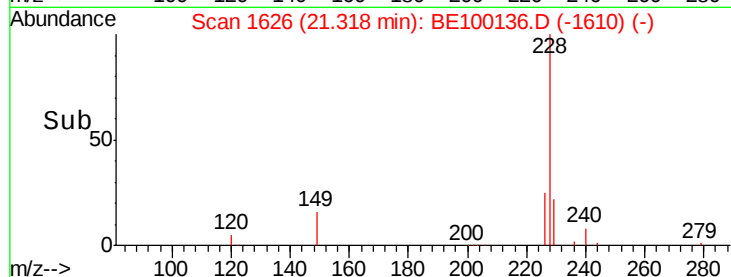
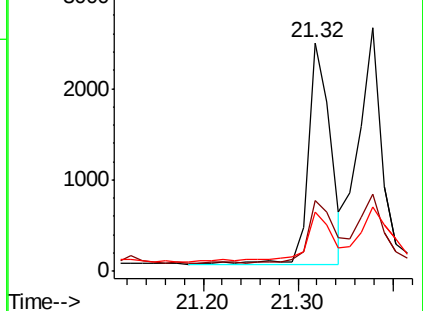
229 26.2 16.4 24.6#



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: 0.150 ng

RT: 21.38 min Scan# 1631

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

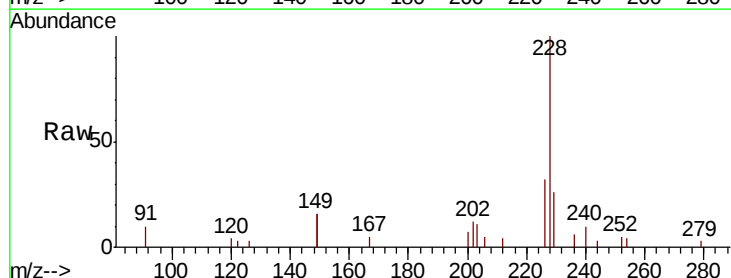
Tgt Ion:228 Resp: 4291

Ion Ratio Lower Upper

228 100

226 31.5 23.8 35.8

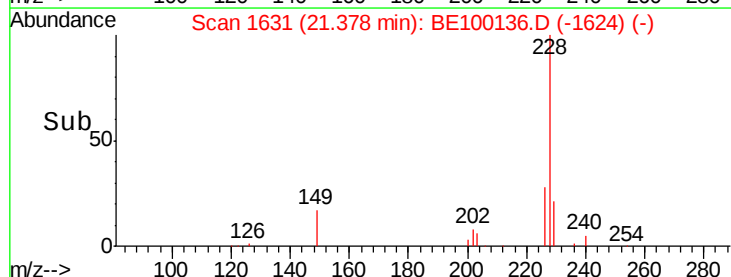
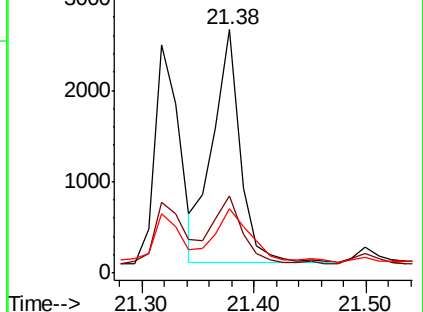
229 26.2 16.3 24.5#

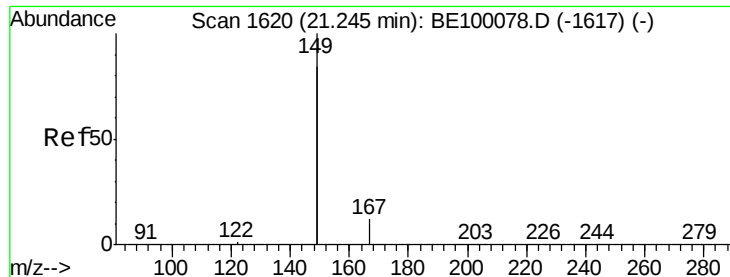


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

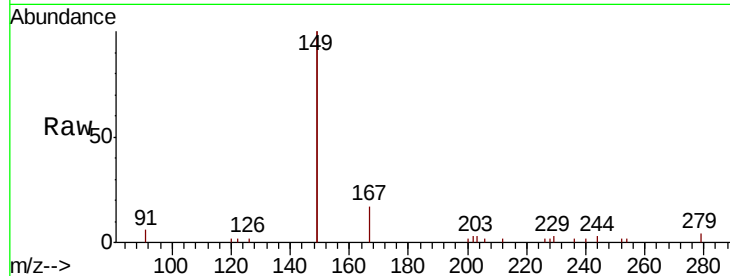




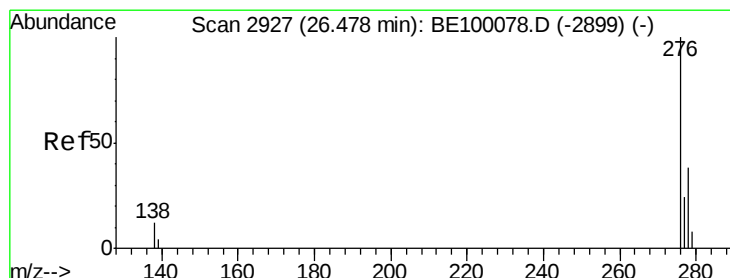
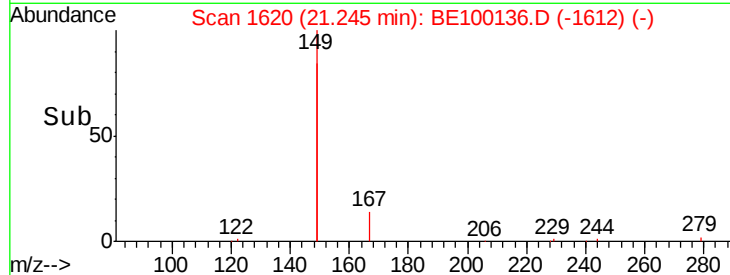
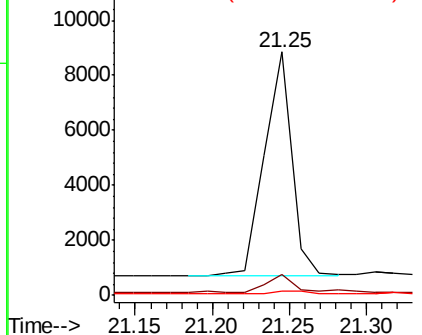
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.437 ng
 RT: 21.25 min Scan# 1620
 Delta R.T. 0.00 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B046-061319

Tgt Ion: 149 Resp: 10187
 Ion Ratio Lower Upper
 149 100
 167 8.7 5.8 8.6#
 279 1.4 1.1 1.7

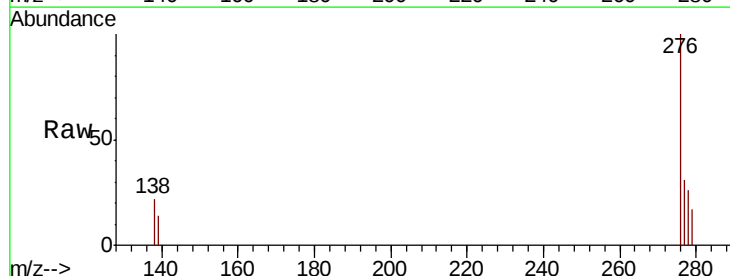


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

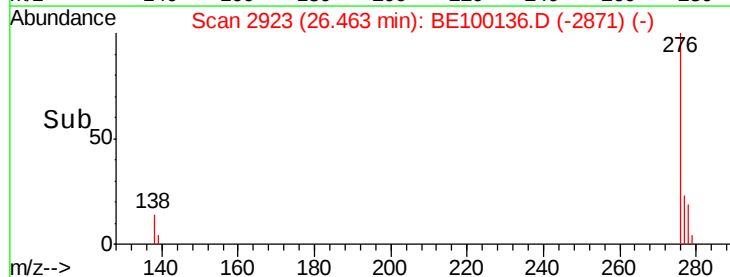
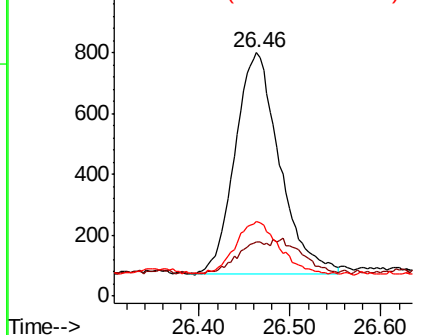


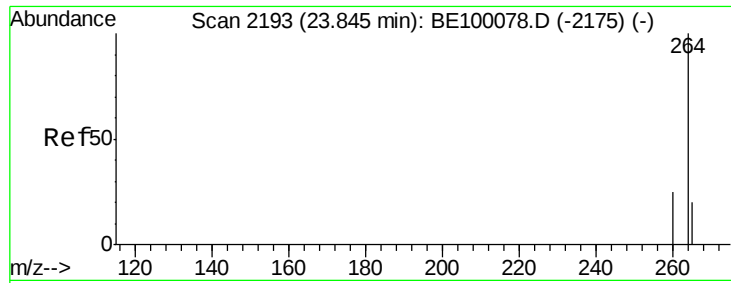
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.077 ng
 RT: 26.46 min Scan# 2923
 Delta R.T. -0.01 min
 Lab File: BE100136.D
 Acq: 21 Jun 2019 15:04

Tgt Ion: 276 Resp: 2471
 Ion Ratio Lower Upper
 276 100
 138 8.5 4.3 6.5#
 277 22.7 19.4 29.0



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: 23.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

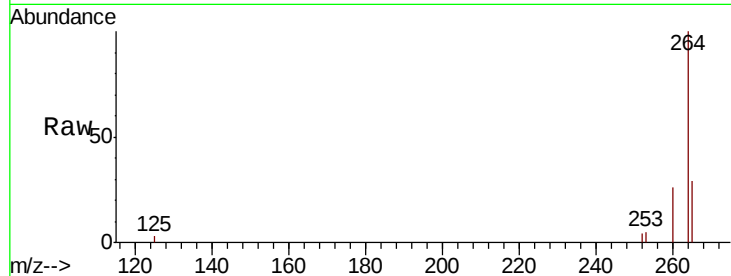
Tgt Ion: 264 Resp: 9432

Ion Ratio Lower Upper

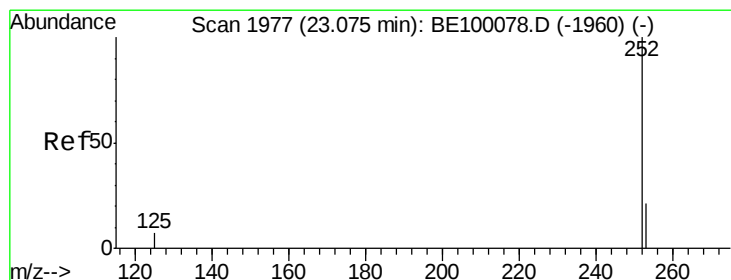
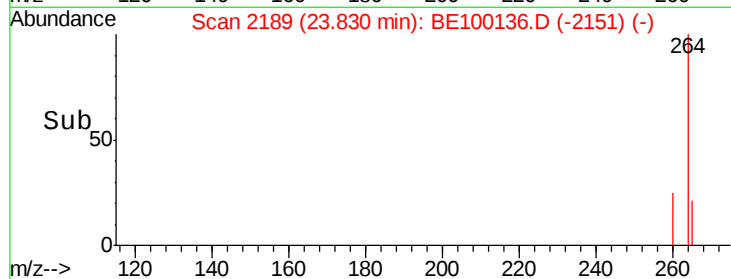
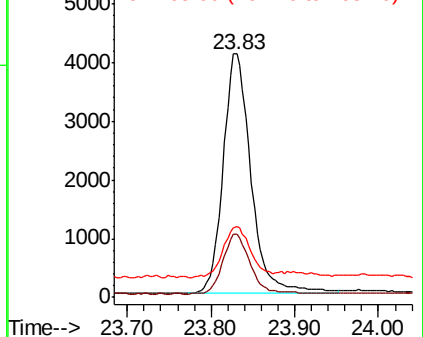
264 100

260 26.0 20.8 31.2

265 29.2 23.2 34.8



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: 0.196 ng

RT: 23.06 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

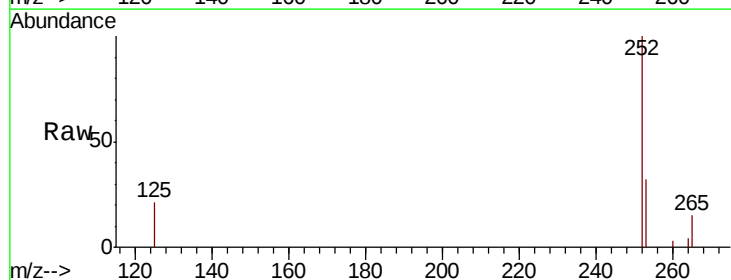
Tgt Ion: 252 Resp: 5436

Ion Ratio Lower Upper

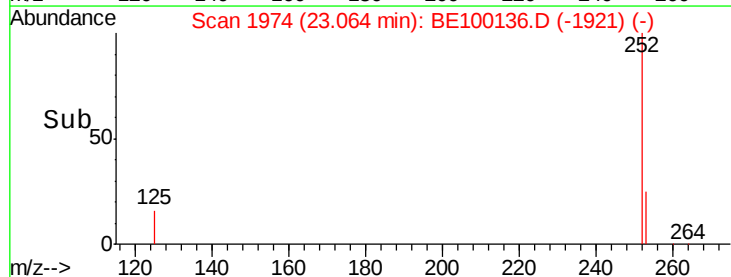
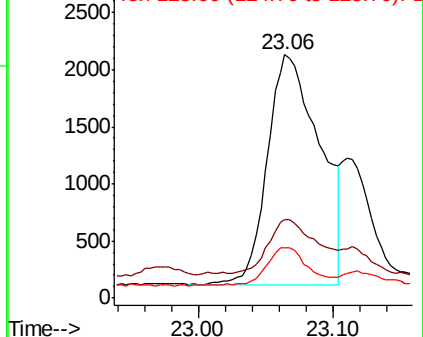
252 100

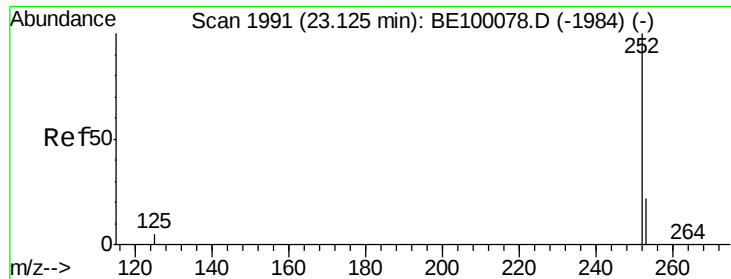
253 32.3 18.4 27.6#

125 20.7 6.4 9.6#



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

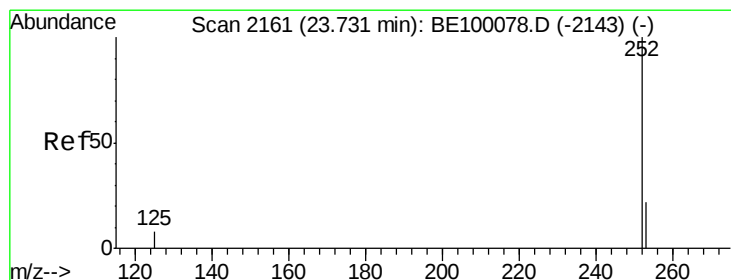
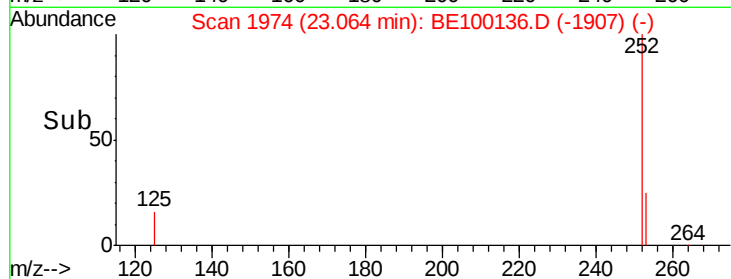
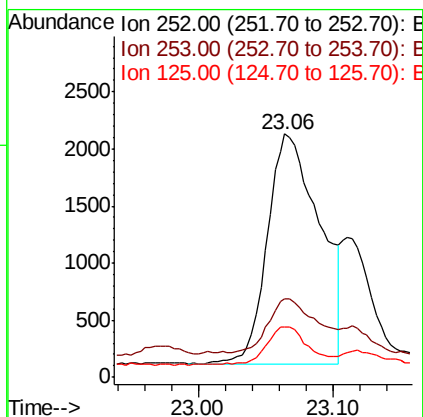
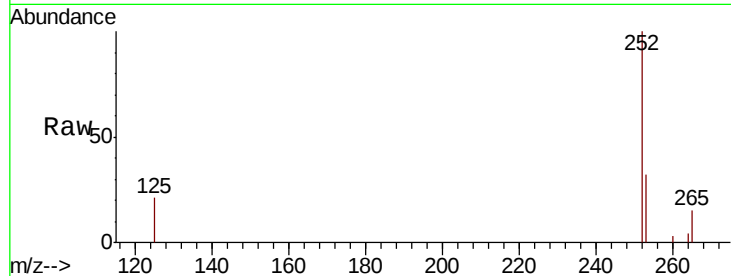




#36
Benzo(k)fluoranthene
Concen: 0.173 ng
RT: 23.06 min Scan# 1974
Delta R.T. -0.06 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

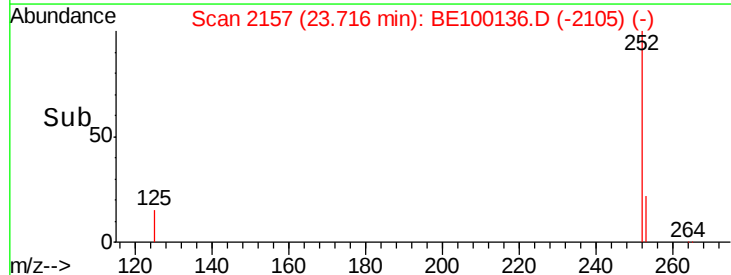
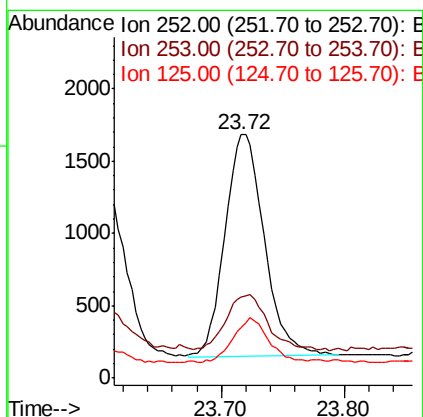
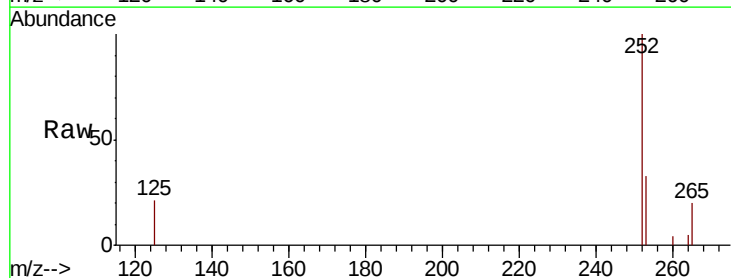
Instrument :
BNA_E
ClientSampleId :
PST-084-B046-061319

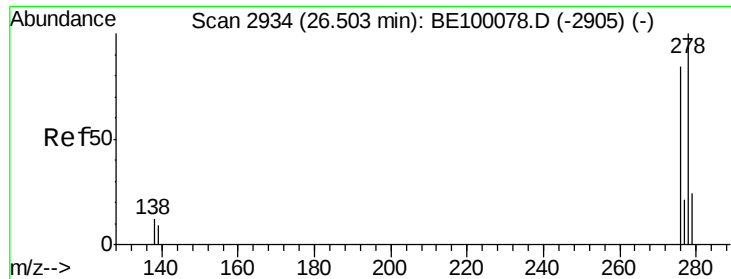
Tgt Ion: 252 Resp: 5436
Ion Ratio Lower Upper
252 100
253 32.3 18.9 28.3#
125 20.7 5.3 7.9#



#37
Benzo(a)pyrene
Concen: 0.128 ng
RT: 23.72 min Scan# 2157
Delta R.T. -0.01 min
Lab File: BE100136.D
Acq: 21 Jun 2019 15:04

Tgt Ion: 252 Resp: 3428
Ion Ratio Lower Upper
252 100
253 33.3 19.4 29.2#
125 20.8 8.0 12.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.025 ng

RT: 26.48 min Scan# 2929

Delta R.T. -0.02 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

Instrument :

BNA_E

ClientSampleId :

PST-084-B046-061319

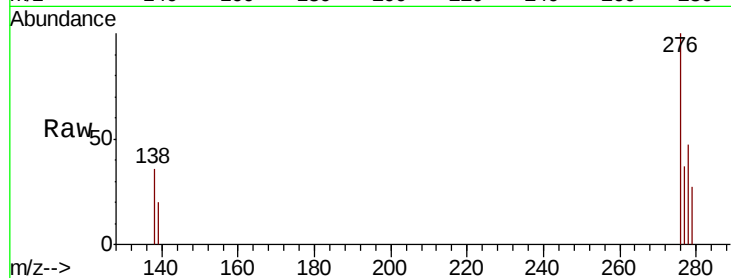
Tgt Ion: 278 Resp: 679

Ion Ratio Lower Upper

278 100

139 41.7 9.0 13.6#

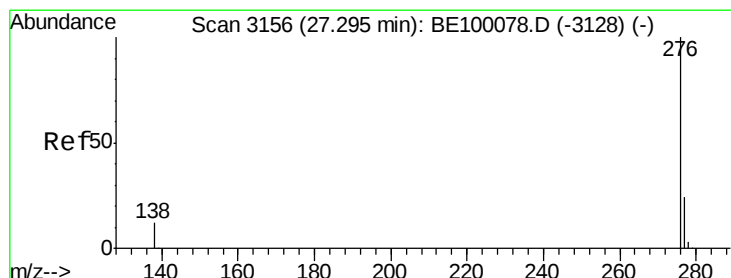
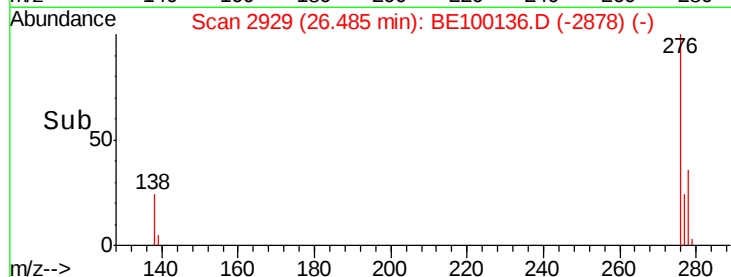
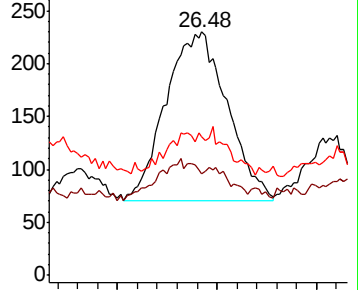
279 57.0 21.4 32.0#



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: 0.090 ng

RT: 27.28 min Scan# 3151

Delta R.T. -0.02 min

Lab File: BE100136.D

Acq: 21 Jun 2019 15:04

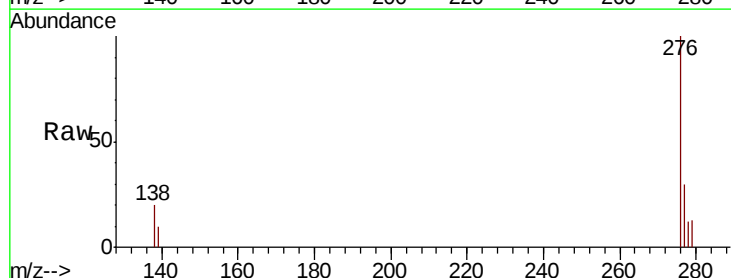
Tgt Ion: 276 Resp: 2547

Ion Ratio Lower Upper

276 100

277 29.6 20.3 30.5

138 20.2 11.3 16.9#



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

