

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100204.D
 Acq On : 27 Jun 2019 14:52
 Operator : JU/SJ
 Sample : K3428-16
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jun 27 18:52:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 15:40:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	661	0.40	ng	-0.01
7) Naphthalene-d8	10.45	136	2214	0.40	ng	-0.03
13) Acenaphthene-d10	14.33	164	1737	0.40	ng	-0.02
19) Phenanthrene-d10	17.07	188	5589	0.40	ng	-0.03
27) Chrysene-d12	21.24	240	7913	0.40	ng	-0.04
34) Perylene-d12	23.67	264	9069	0.40	ng	-0.06

System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	433	0.29	ng	-0.01
5) Phenol-d6	6.84	99	585	0.29	ng	-0.03
8) Nitrobenzene-d5	8.85	82	545	0.25	ng	0.00
11) 2-Methylnaphthalene-d10	12.06	152	1562	0.38	ng	-0.02
14) 2,4,6-Tribromophenol	15.82	330	272	0.27	ng	-0.03
15) 2-Fluorobiphenyl	12.96	172	1856	0.27	ng	-0.02
25) Fluoranthene-d10	19.10	212	30956	0.38	ng	-0.03
29) Terphenyl-d14	19.70	244	5506	0.35	ng	-0.04

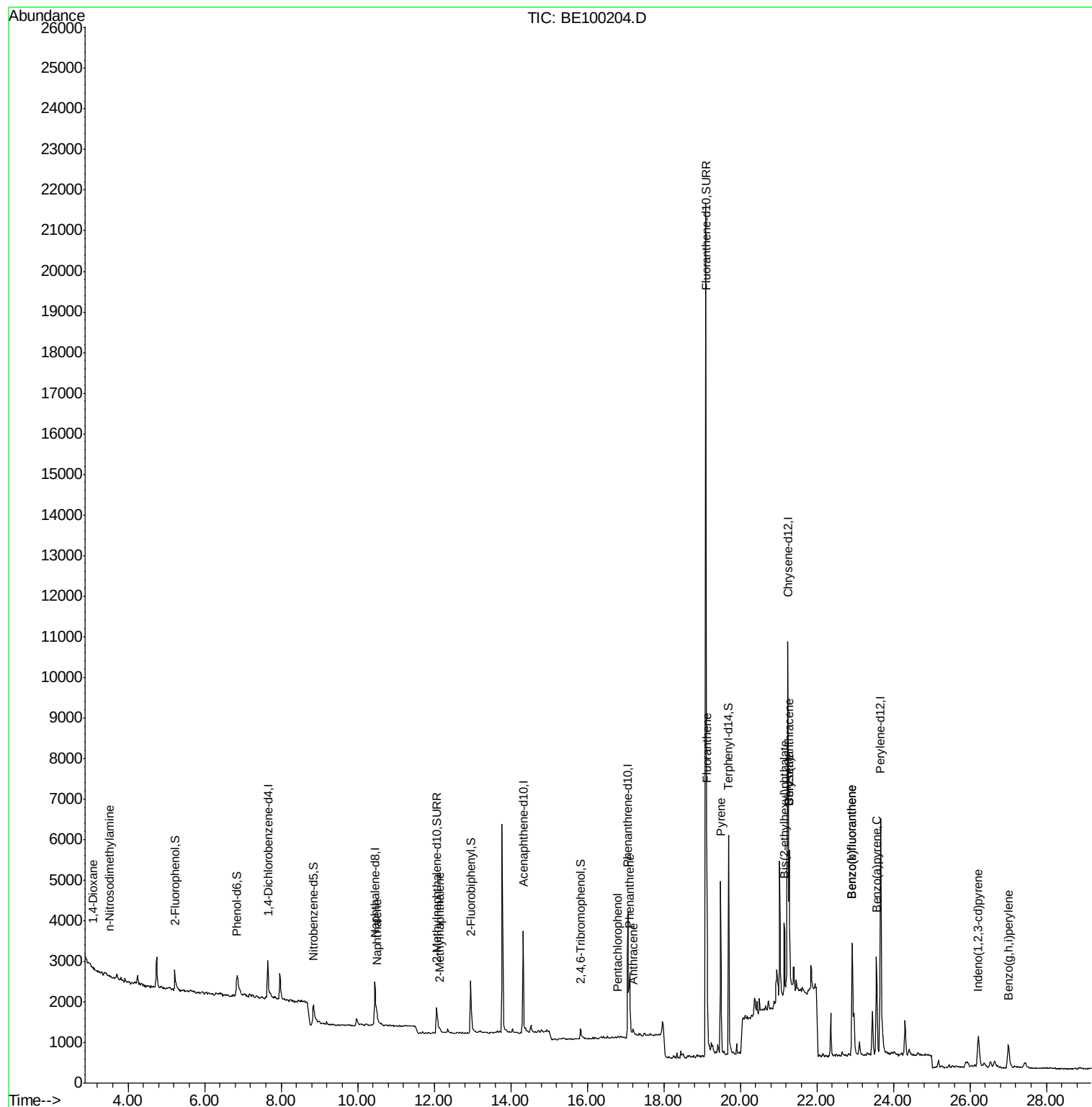
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.07	88	48	0.046	ng	# 31
3) n-Nitrosodimethylamine	3.52	42	15	0.039	ng	# 1
9) Naphthalene	10.50	128	592	0.025	ng	# 74
12) 2-Methylnaphthalene	12.14	142	89	0.023	ng	# 81
22) Pentachlorophenol	16.80	266	23	0.289	ng	88
23) Phenanthrene	17.11	178	1922	0.145	ng	98
24) Anthracene	17.20	178	256	0.023	ng	# 92
26) Fluoranthene	19.13	202	4499	0.209	ng	# 97
28) Pyrene	19.49	202	4228	0.209	ng	# 95
30) Benzo(a)anthracene	21.28	228	3072	0.132	ng	91
31) Chrysene	21.28	228	3014	0.110	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.15	149	2359	0.088	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.22	276	1575	0.040	ng	97
35) Benzo(b)fluoranthene	22.92	252	3644	0.149	ng	# 32
36) Benzo(k)fluoranthene	22.92	252	3644	0.125	ng	# 34
37) Benzo(a)pyrene	23.56	252	2523	0.100	ng	# 27
39) Benzo(a,h,i)perylene	27.00	276	1584	0.056	ng	# 82

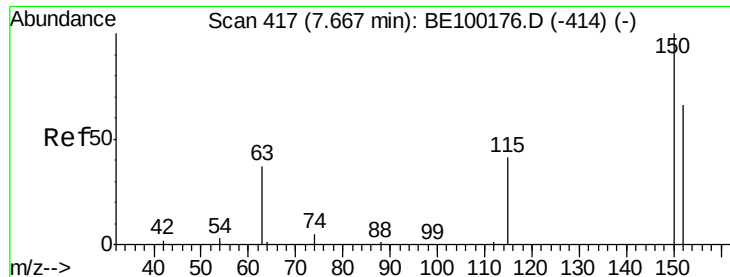
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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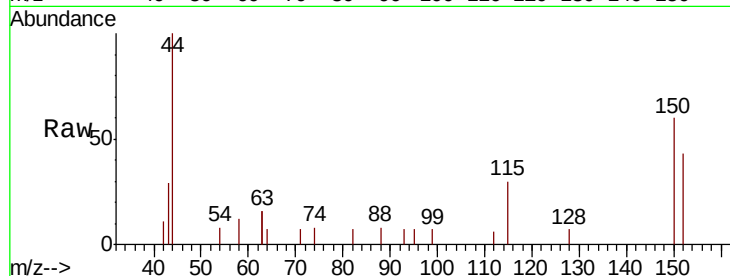


#1

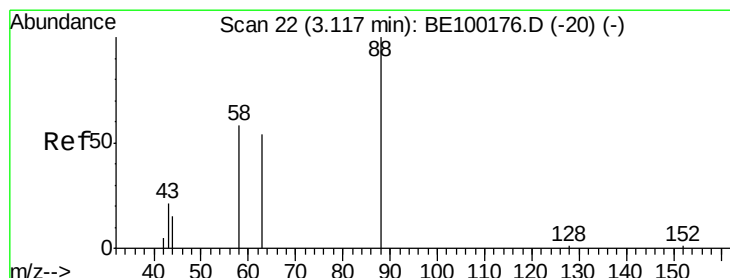
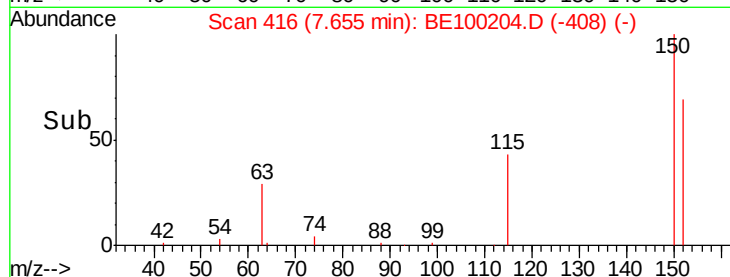
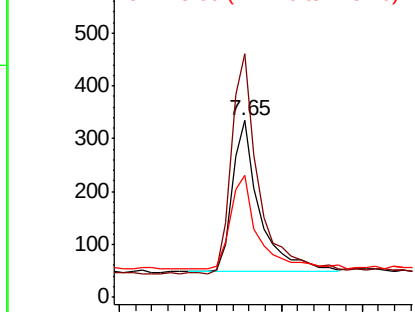
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.65 min Scan# 416
Delta R.T. -0.01 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 661
Ion Ratio Lower Upper
152 100
150 138.0 113.4 170.2
115 69.2 55.8 83.6



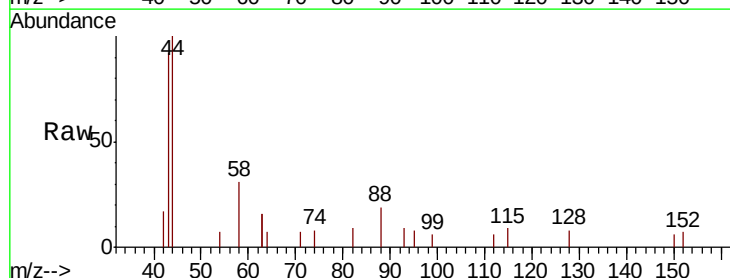
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



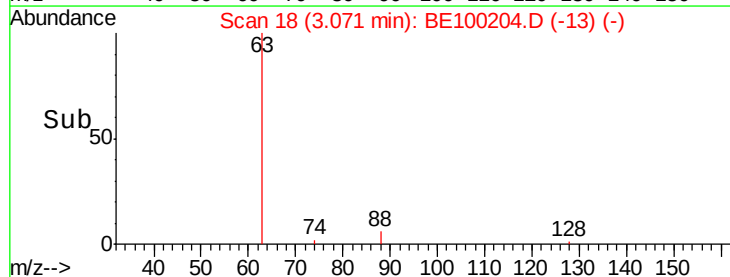
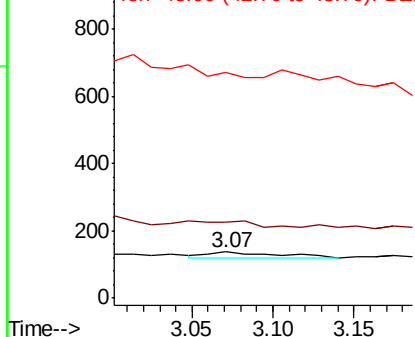
#2

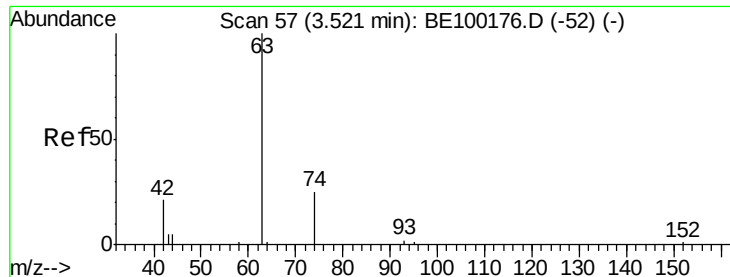
1,4-Dioxane
Concen: 0.046 ng
RT: 3.07 min Scan# 18
Delta R.T. -0.05 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
58 110.4 43.8 65.6#
43 0.0 19.4 29.2#



Abundance Ion 88.00 (87.70 to 88.70): BE1
Ion 58.00 (57.70 to 58.70): BE1
Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.039 ng

RT: 3.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampleId :

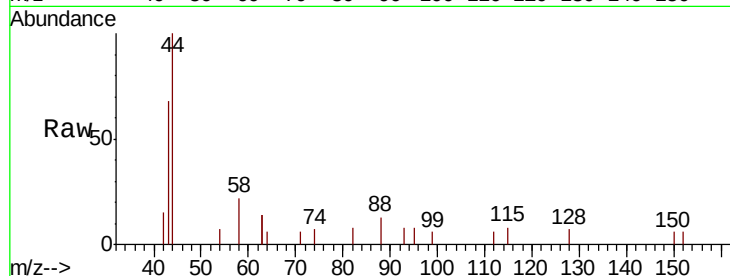
Tot Ion: 42 Resp: 15

Ion Ratio Lower Upper

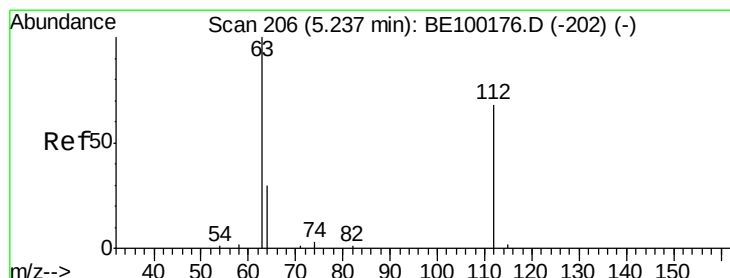
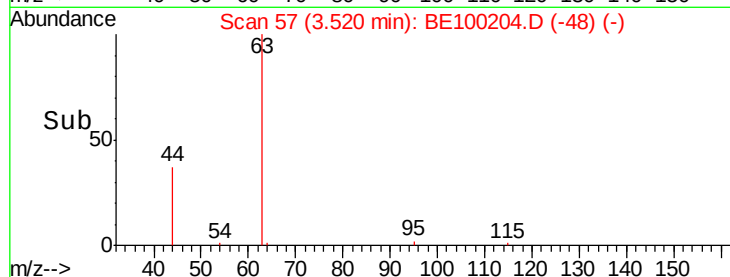
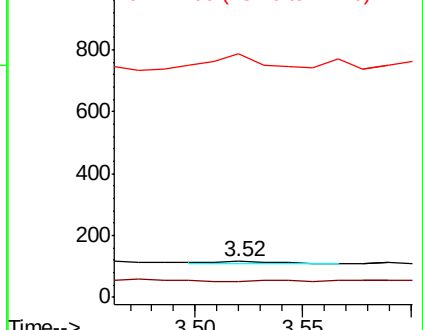
42 100

74 26.7 193.2 289.8#

44 653.3 114.5 171.7#



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: 0.295 ng

RT: 5.22 min Scan# 205

Delta R.T. -0.01 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

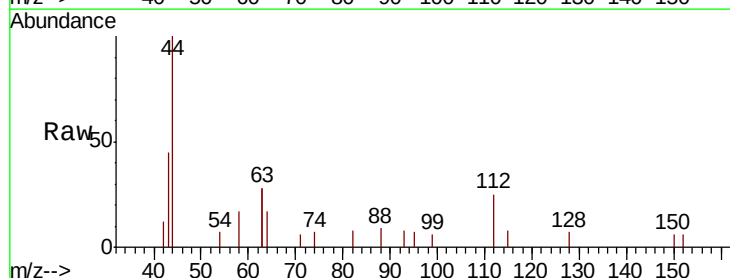
Tgt Ion: 112 Resp: 433

Ion Ratio Lower Upper

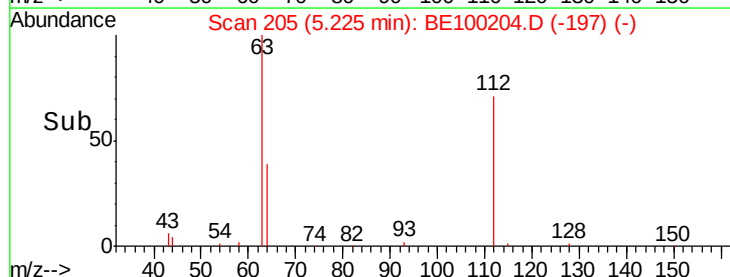
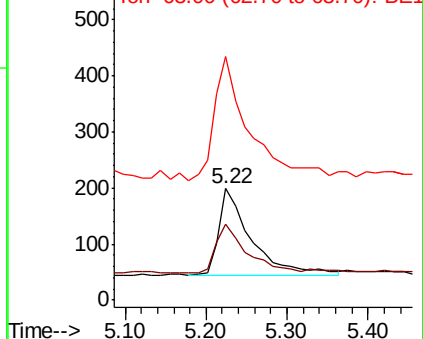
112 100

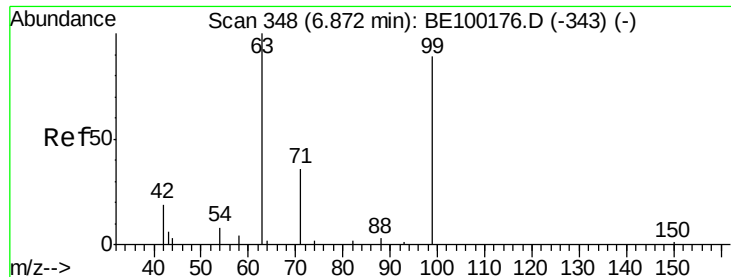
64 51.5 40.7 61.1

63 158.9 93.2 139.8#



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: 0.289 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.03 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampleId :

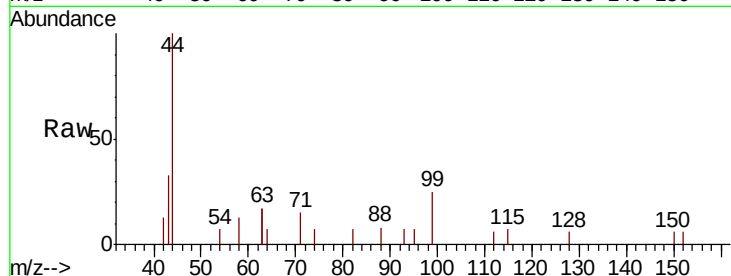
Tot Ion: 99 Resp: 585

Ion Ratio Lower Upper

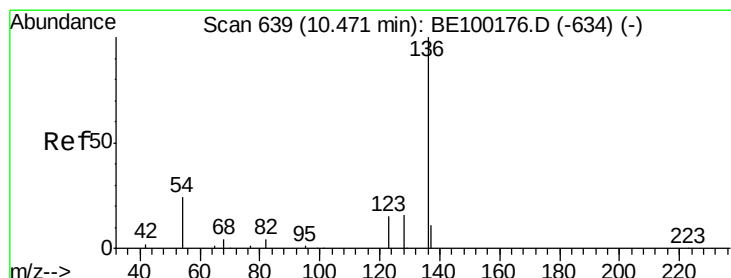
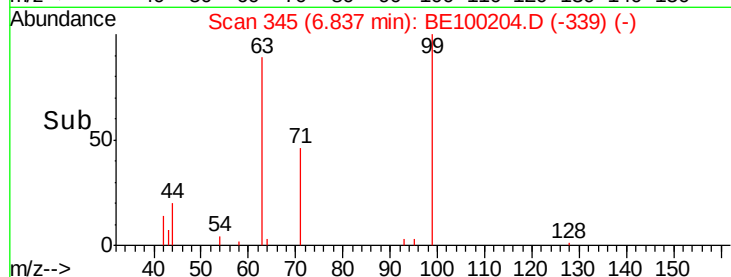
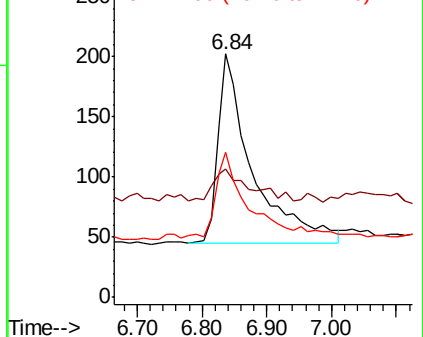
99 100

42 17.8 10.4 15.6#

71 43.2 32.4 48.6



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.45 min Scan# 637

Delta R.T. -0.03 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Tgt Ion: 136 Resp: 2214

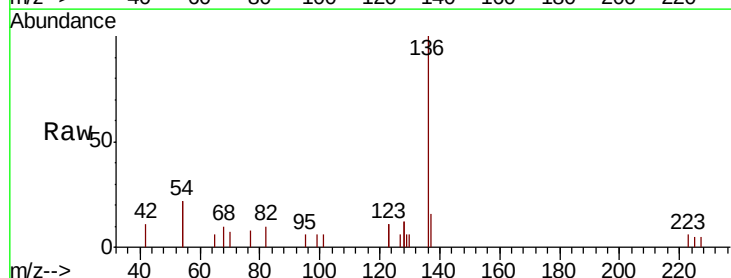
Ion Ratio Lower Upper

136 100

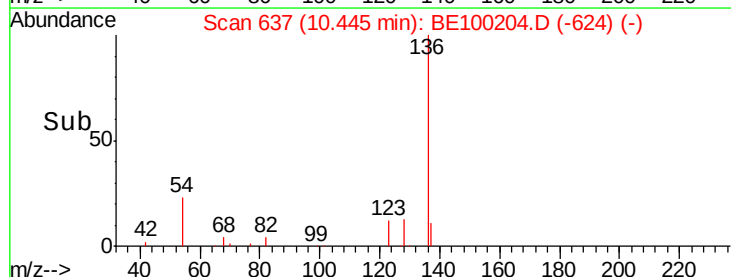
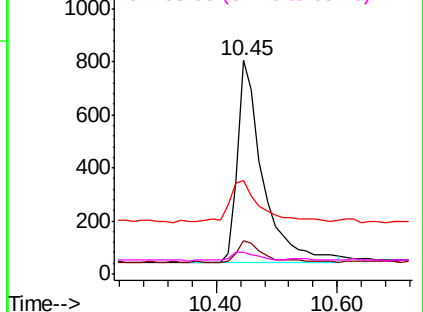
137 15.7 13.8 20.8

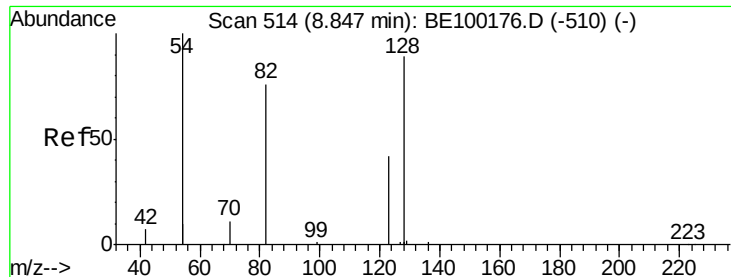
54 43.5 35.4 53.2

68 9.9 8.8 13.2



Abundance Ion 136.00 (135.70 to 136.70): BE1
Ion 137.00 (136.70 to 137.70): BE1
Ion 54.00 (53.70 to 54.70): BE1
Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.247 ng

RT: 8.85 min Scan# 514

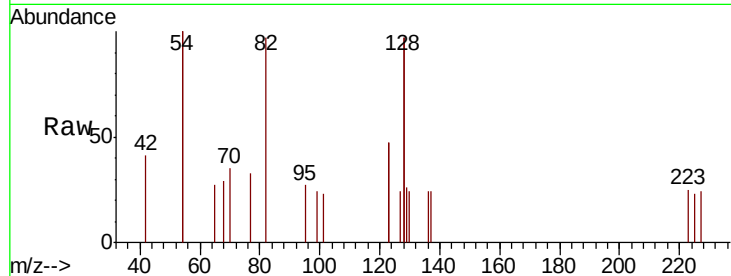
Delta R.T. -0.00 min

Lab File: BE100204.D

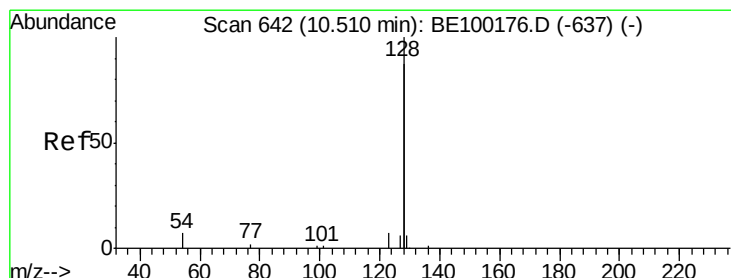
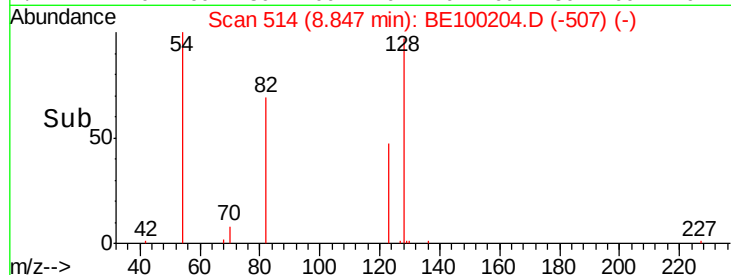
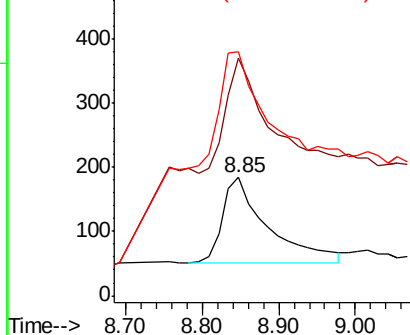
Acq: 27 Jun 2019 14:52

Instrument :
BNA_E
ClientSampleId :

Tot Ion:	82	Resp:	545
Ion	Ratio	Lower	Upper
82	100		
128	201.1	144.6	217.0
54	206.5	163.0	244.6



Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.025 ng

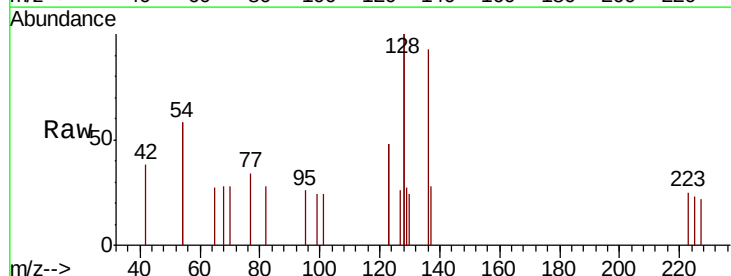
RT: 10.50 min Scan# 641

Delta R.T. -0.01 min

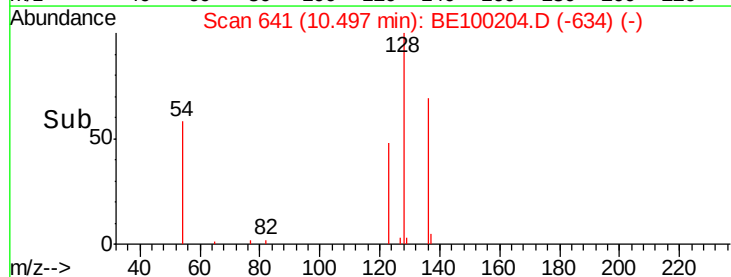
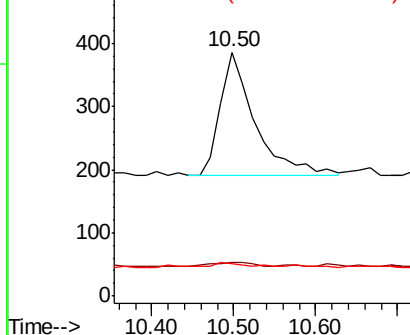
Lab File: BE100204.D

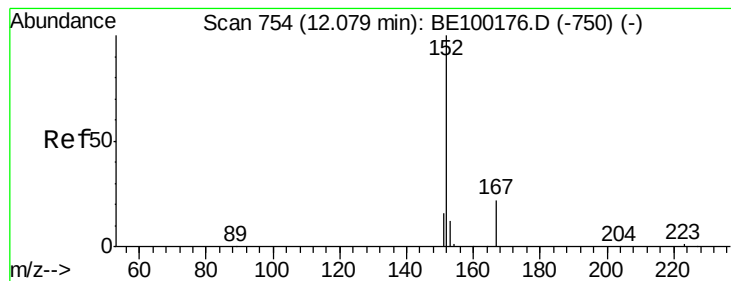
Acq: 27 Jun 2019 14:52

Tgt Ion:	128	Resp:	592
Ion	Ratio	Lower	Upper
128	100		
129	13.5	3.6	5.4#
127	13.2	3.8	5.8#



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

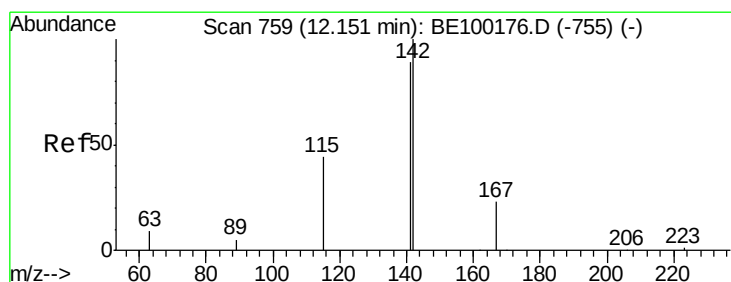
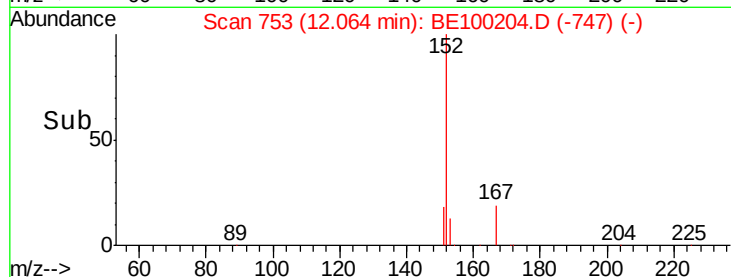
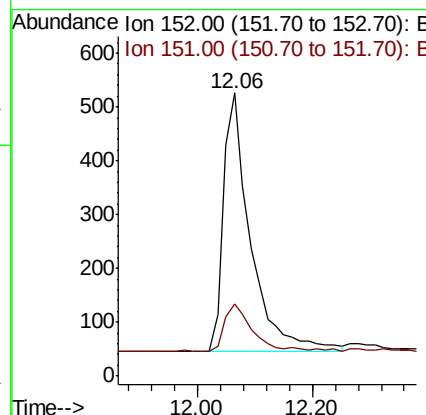
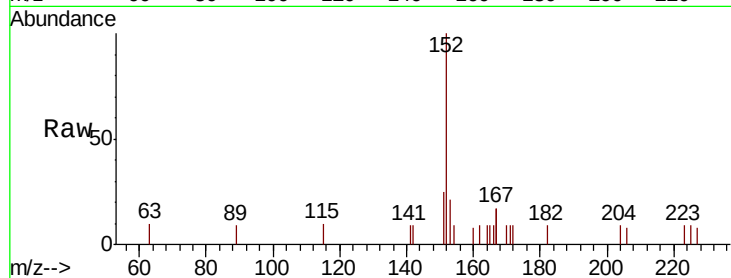




#11
 2-Methylnaphthalene-d10
 Concen: 0.376 ng
 RT: 12.06 min Scan# 753
 Delta R.T. -0.02 min
 Lab File: BE100204.D
 Acq: 27 Jun 2019 14:52

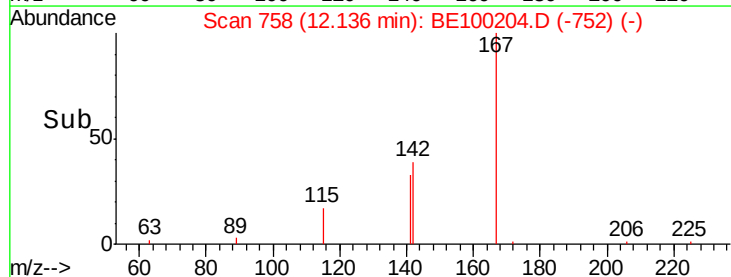
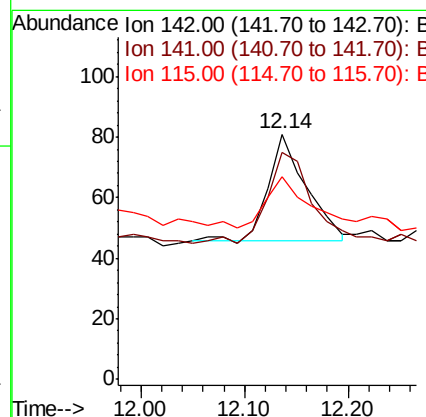
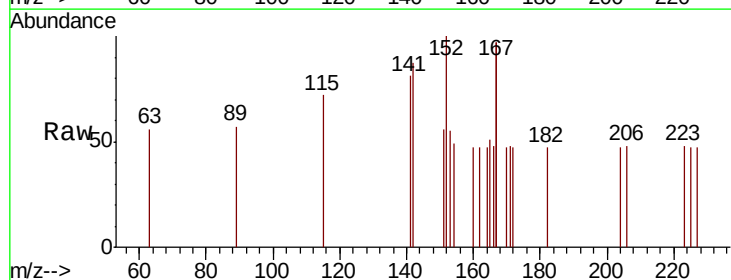
Instrument :
 BNA_E
 ClientSampleId :

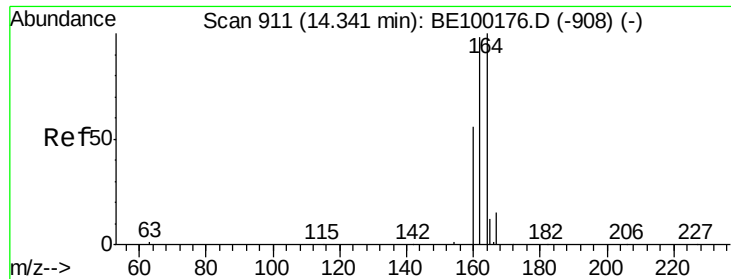
Tot Ion:152 Resp: 1562
 Ion Ratio Lower Upper
 152 100
 151 19.6 16.3 24.5



#12
 2-Methylnaphthalene
 Concen: 0.023 ng
 RT: 12.14 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: BE100204.D
 Acq: 27 Jun 2019 14:52

Tgt Ion:142 Resp: 89
 Ion Ratio Lower Upper
 142 100
 141 92.6 71.8 107.8
 115 82.7 40.4 60.6#

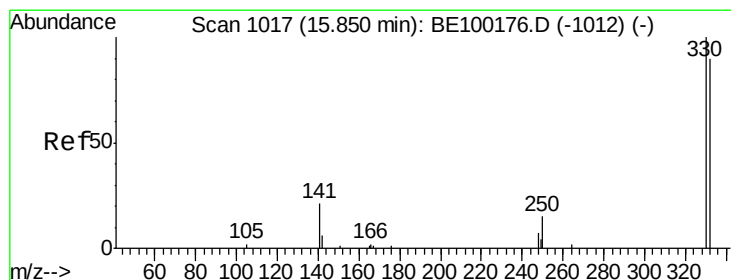
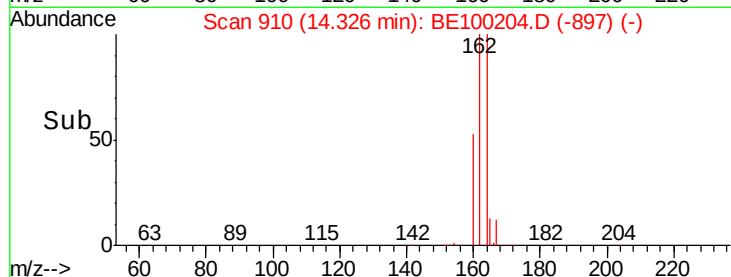
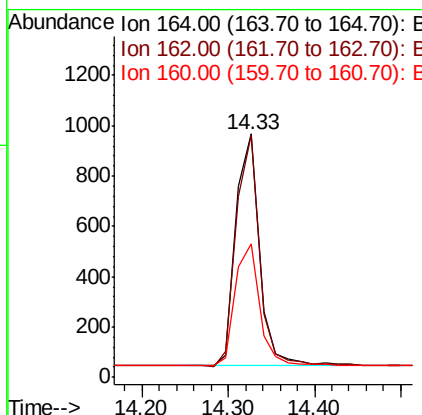
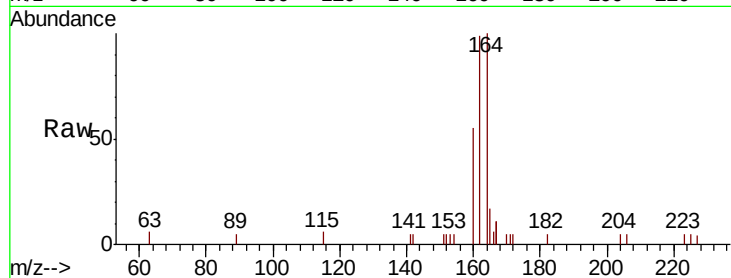




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.33 min Scan# 910
 Delta R.T. -0.02 min
 Lab File: BE100204.D
 Acq: 27 Jun 2019 14:52

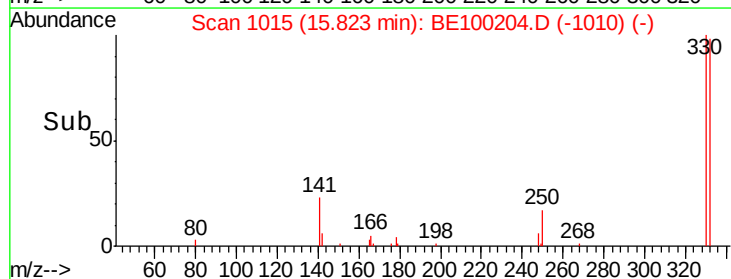
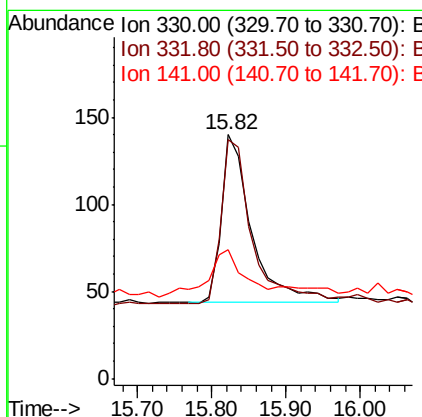
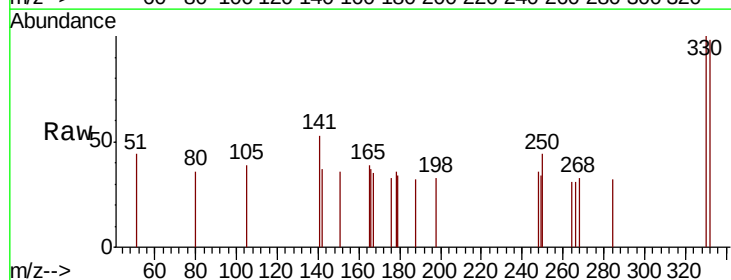
Instrument :
 BNA_E
 ClientSampleId :

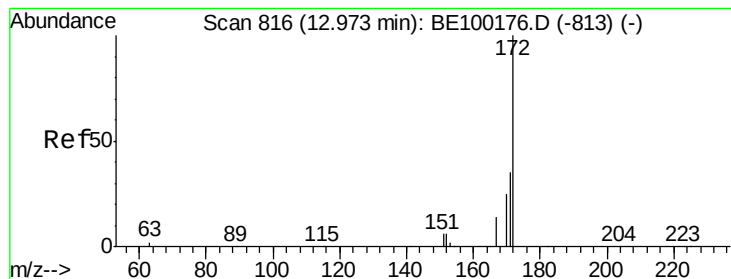
Tot Ion:164 Resp: 1737
 Ion Ratio Lower Upper
 164 100
 162 99.3 78.6 118.0
 160 55.0 46.9 70.3



#14
 2,4,6-Tribromophenol
 Concen: 0.270 ng
 RT: 15.82 min Scan# 1015
 Delta R.T. -0.03 min
 Lab File: BE100204.D
 Acq: 27 Jun 2019 14:52

Tgt Ion:330 Resp: 272
 Ion Ratio Lower Upper
 330 100
 332 102.9 77.7 116.5
 141 20.2 18.9 28.3

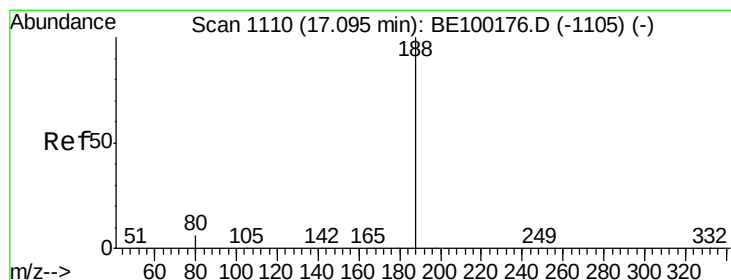
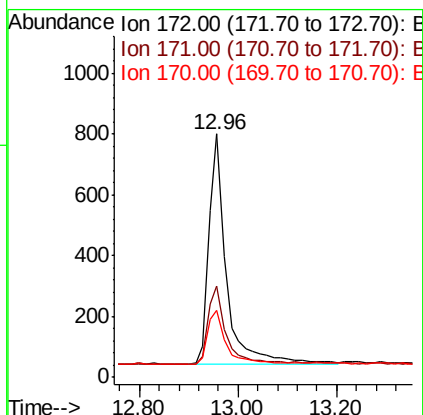
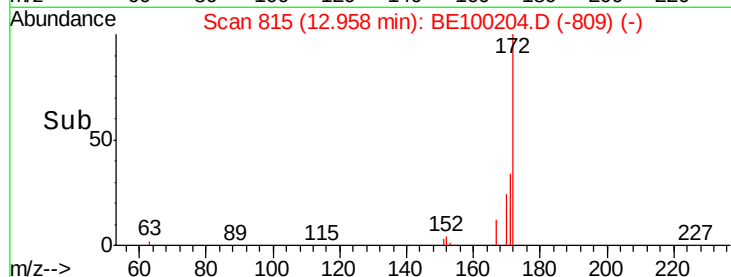
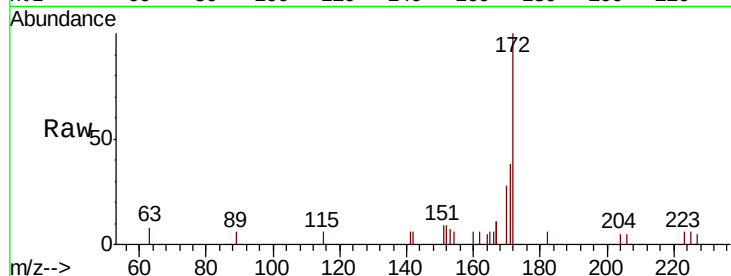




#15
2-Fluorobiphenyl
Concen: 0.266 ng
RT: 12.96 min Scan# 815
Delta R.T. -0.02 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

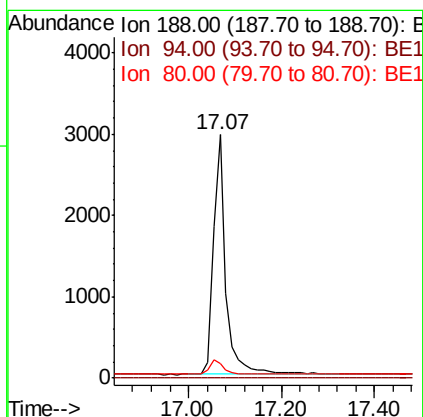
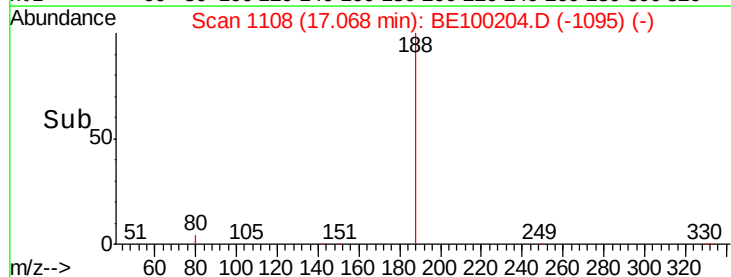
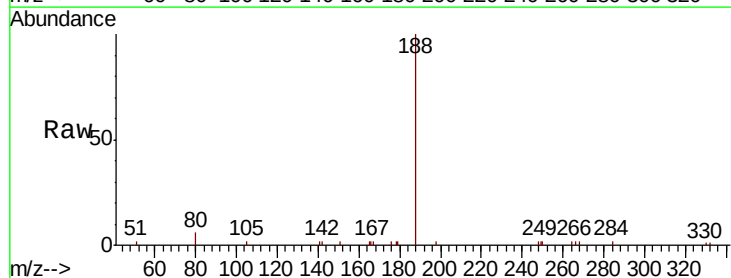
Instrument :
BNA_E
ClientSampled :

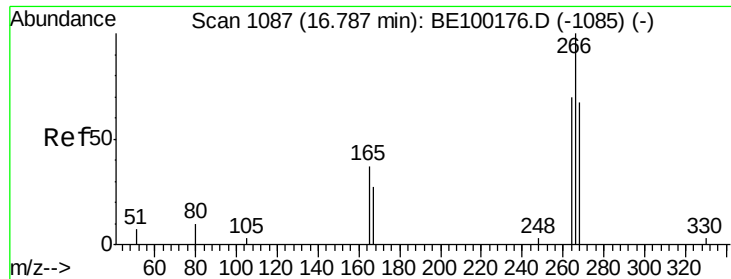
Tot Ion:172 Resp: 1856
Ion Ratio Lower Upper
172 100
171 37.6 31.0 46.4
170 27.7 23.9 35.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.07 min Scan# 1108
Delta R.T. -0.03 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:188 Resp: 5589
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.8 6.4 9.6#





#22

Pentachlorophenol

Concen: 0.289 ng

RT: 16.80 min Scan# 1088

Delta R.T. 0.01 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampled :

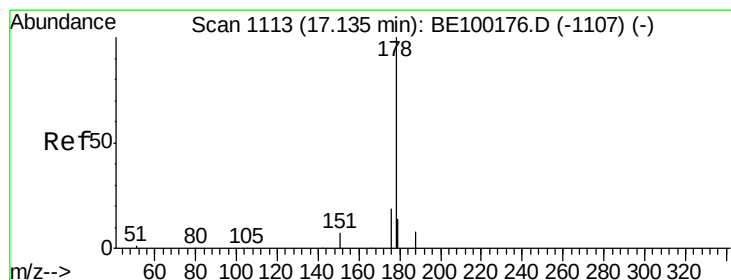
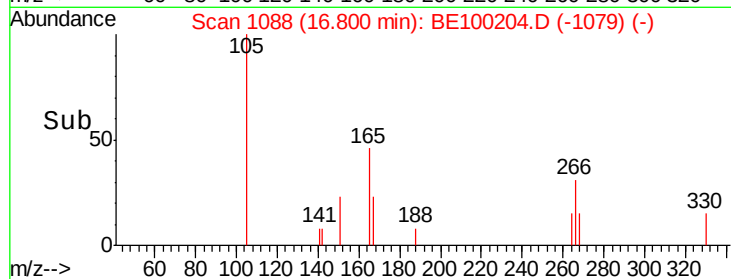
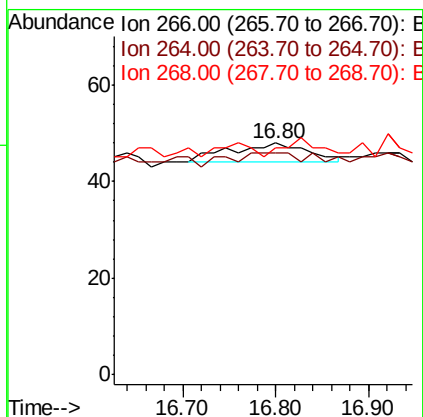
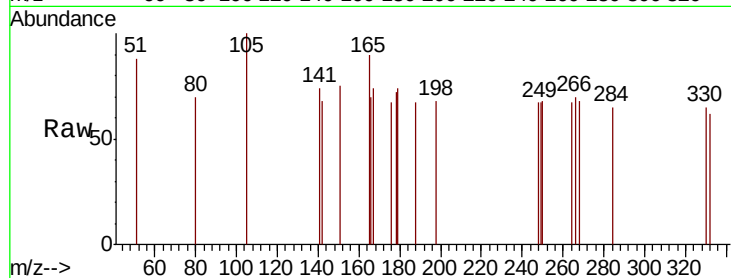
Tot Ion:266 Resp: 23

Ion Ratio Lower Upper

266 100

264 95.8 67.7 101.5

268 97.9 69.8 104.6



#23

Phenanthrene

Concen: 0.145 ng

RT: 17.11 min Scan# 1111

Delta R.T. -0.03 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

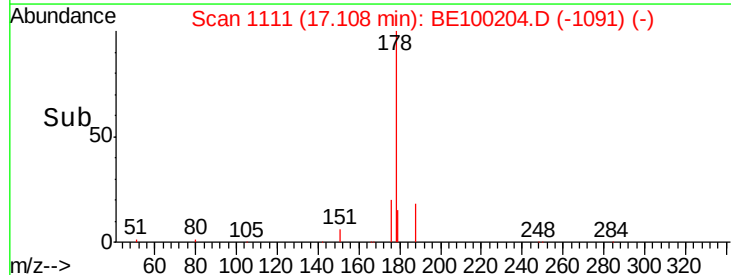
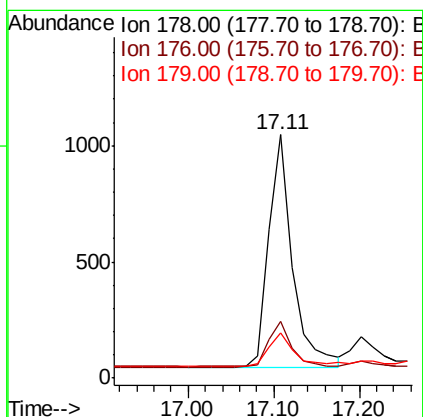
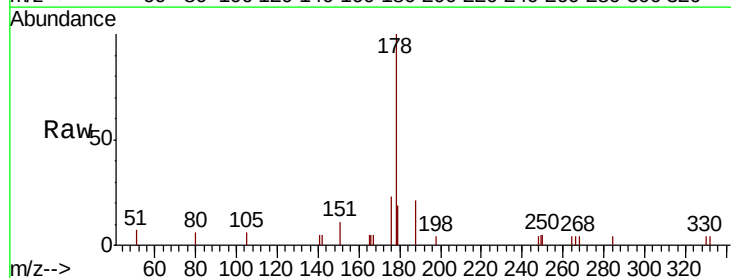
Tgt Ion:178 Resp: 1922

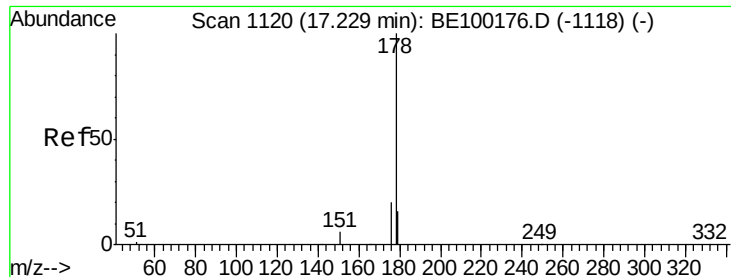
Ion Ratio Lower Upper

178 100

176 20.6 15.5 23.3

179 15.8 12.2 18.2





#24

Anthracene

Concen: 0.023 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.03 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampleId :

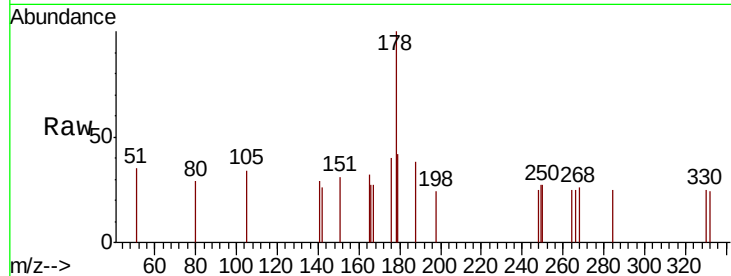
Tot Ion:178 Resp: 256

Ion Ratio Lower Upper

178 100

176 16.4 15.7 23.5

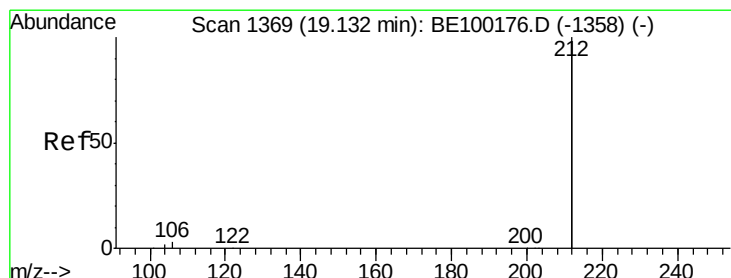
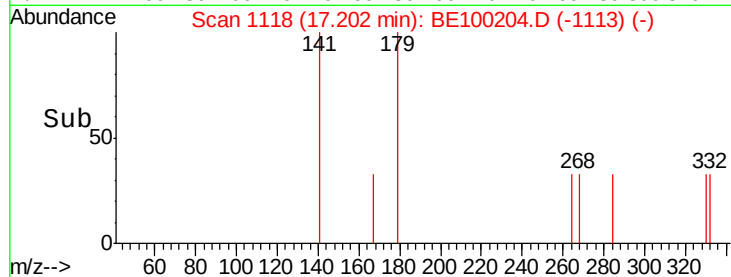
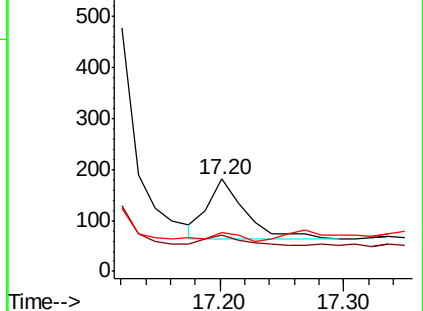
179 12.1 12.9 19.3#



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: 0.384 ng

RT: 19.10 min Scan# 1363

Delta R.T. -0.03 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

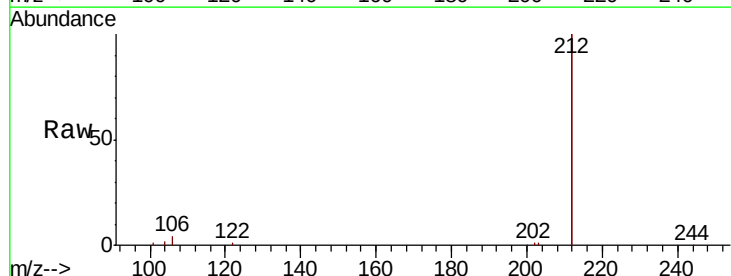
Tgt Ion:212 Resp: 30956

Ion Ratio Lower Upper

212 100

106 1.7 1.3 1.9

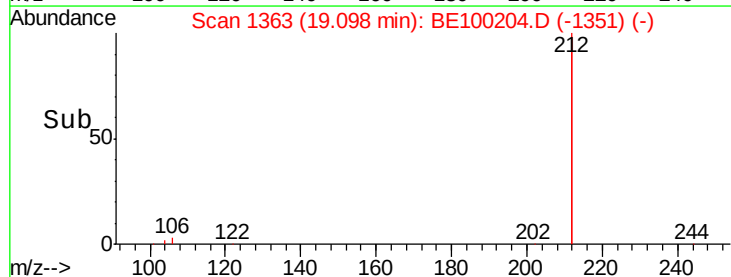
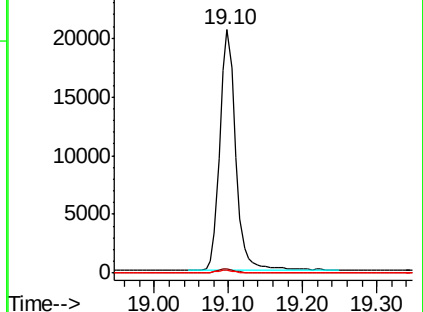
104 1.0 0.7 1.1

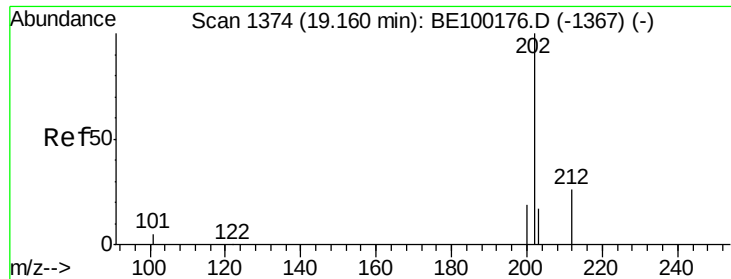


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

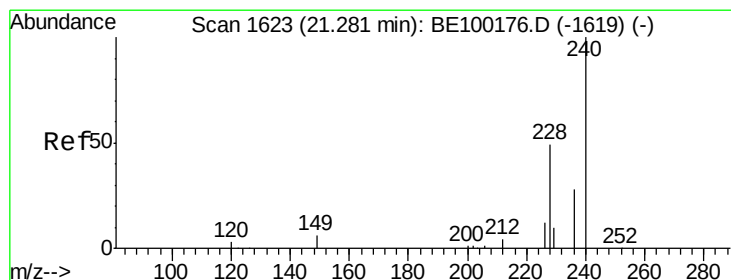
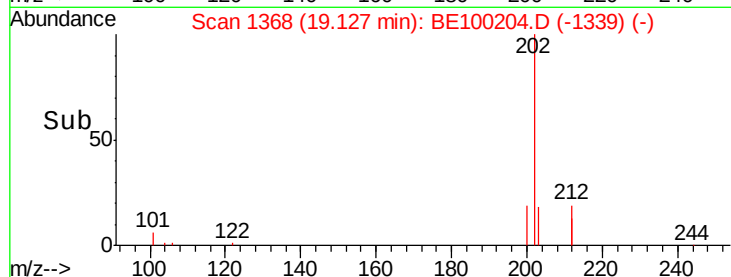
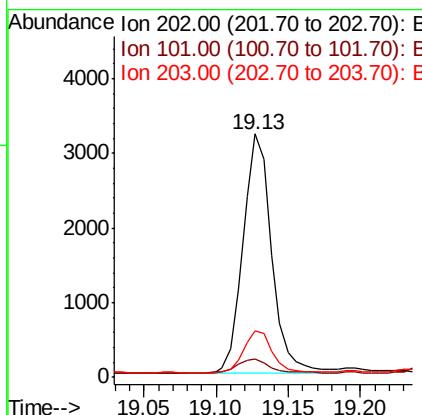
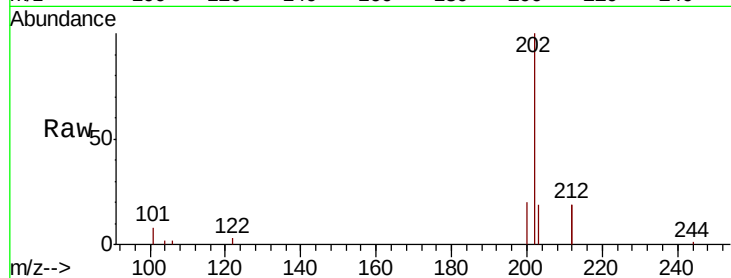




#26
Fluoranthene
Concen: 0.209 ng
RT: 19.13 min Scan# 1368
Delta R.T. -0.03 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

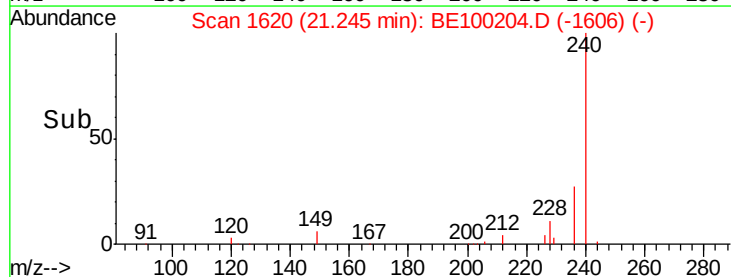
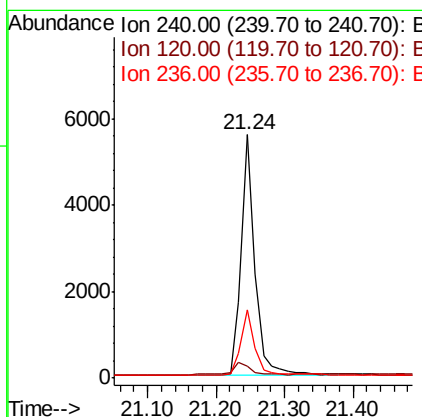
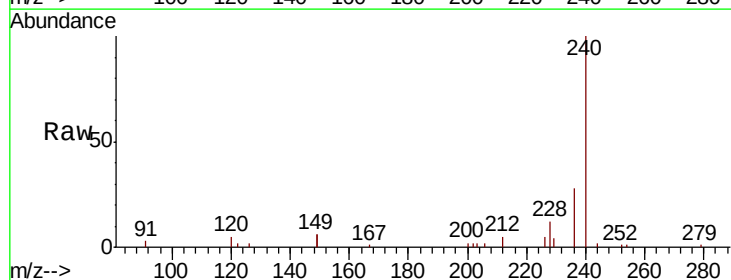
Instrument :
BNA_E
ClientSampleId :

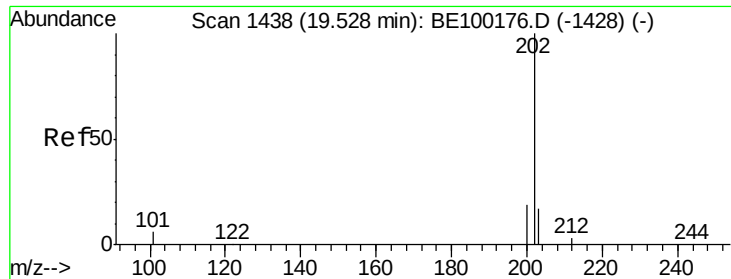
Tot Ion:202 Resp: 4499
Ion Ratio Lower Upper
202 100
101 7.4 4.5 6.7#
203 17.9 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.24 min Scan# 1620
Delta R.T. -0.04 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:240 Resp: 7913
Ion Ratio Lower Upper
240 100
120 4.9 4.1 6.1
236 27.9 23.0 34.6

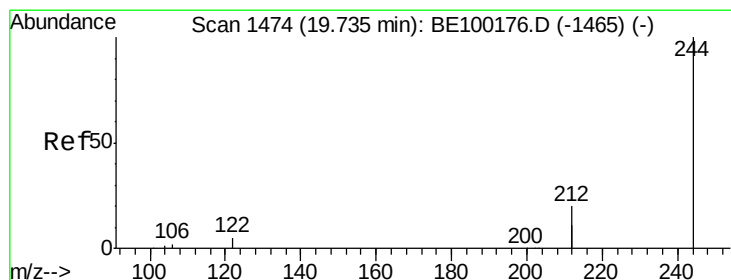
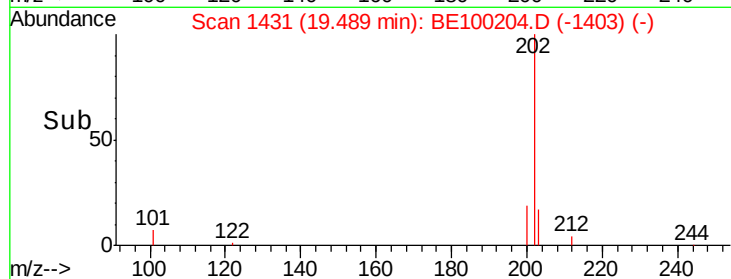
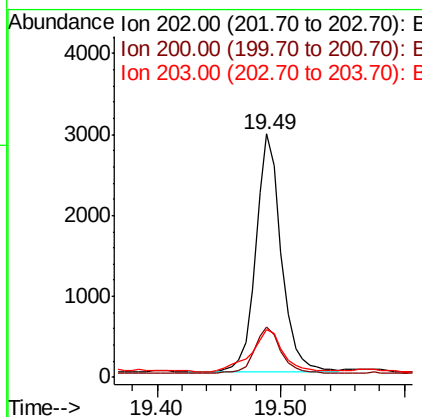
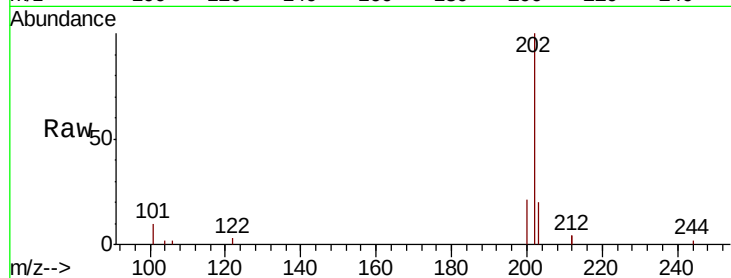




#28
Pvrene
Concen: 0.209 ng
RT: 19.49 min Scan# 1431
Delta R.T. -0.04 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

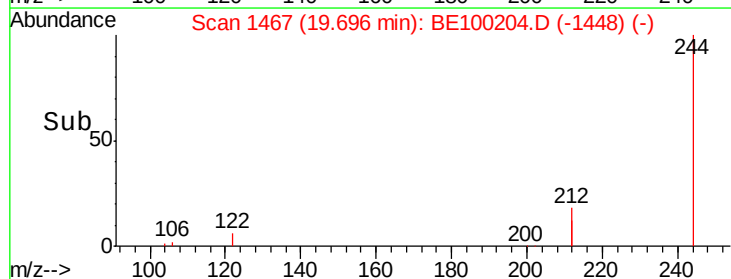
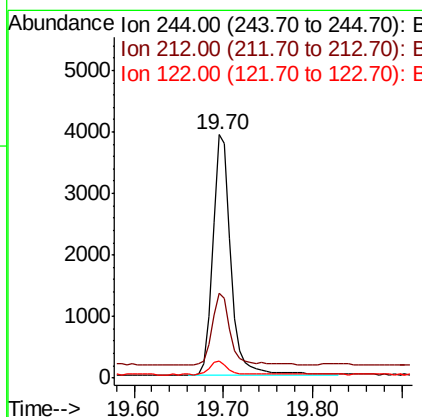
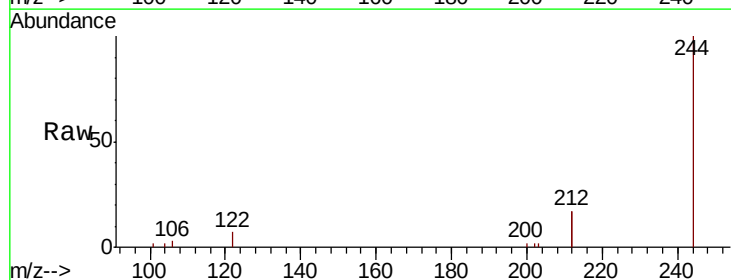
Instrument :
BNA_E
ClientSampleId :

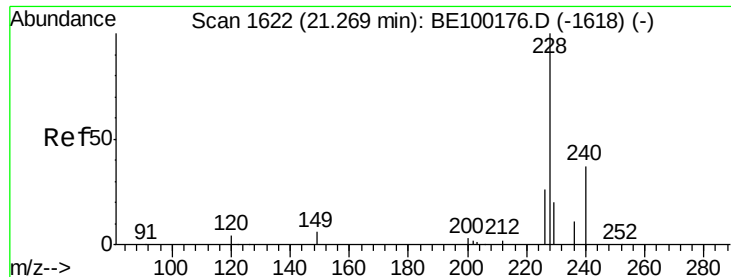
Tot Ion:202 Resp: 4228
Ion Ratio Lower Upper
202 100
200 19.9 15.5 23.3
203 21.9 13.9 20.9#



#29
Terphenyl-d14
Concen: 0.354 ng
RT: 19.70 min Scan# 1467
Delta R.T. -0.04 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:244 Resp: 5506
Ion Ratio Lower Upper
244 100
212 35.0 30.7 46.1
122 6.9 5.8 8.6

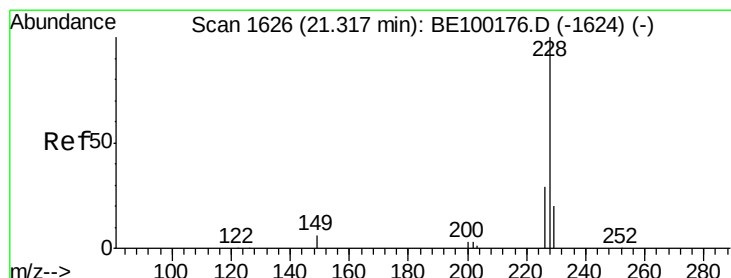
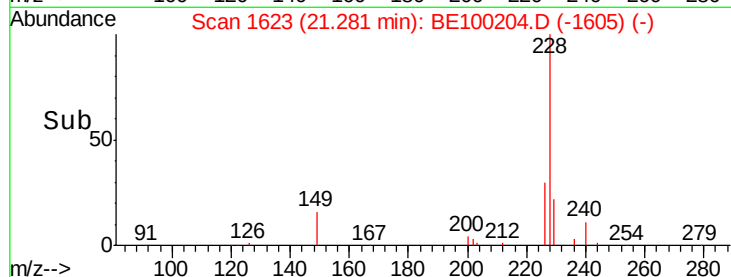
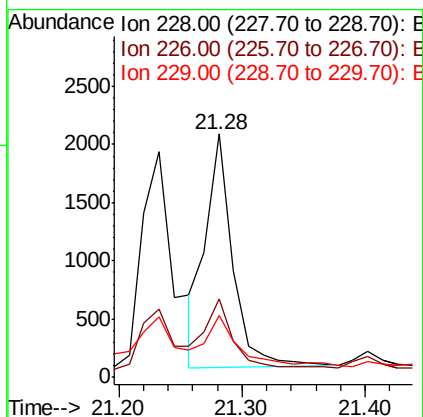
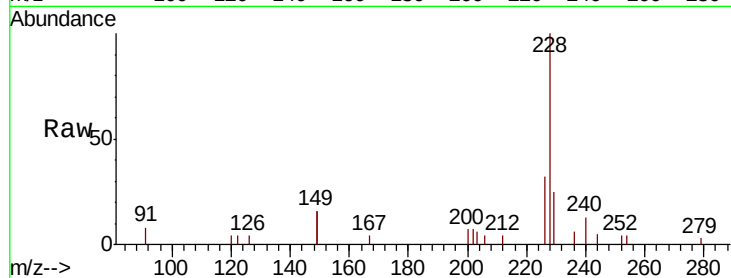




#30
Benzo(a)anthracene
Concen: 0.132 ng
RT: 21.28 min Scan# 1623
Delta R.T. 0.01 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

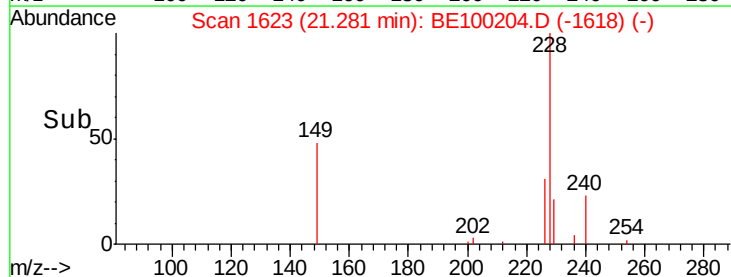
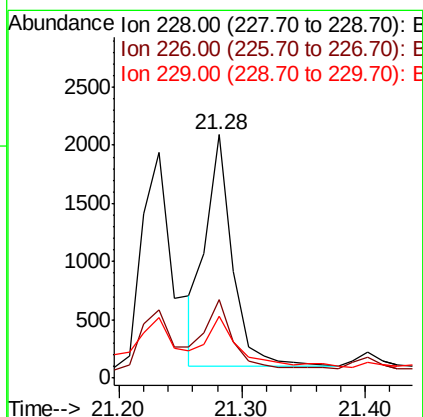
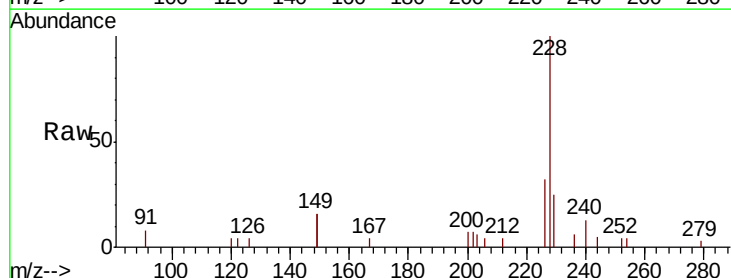
Instrument :
BNA_E
ClientSampled :

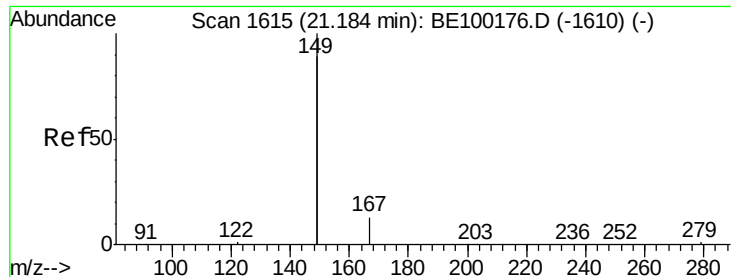
Tot Ion:228 Resp: 3072
Ion Ratio Lower Upper
228 100
226 32.2 21.5 32.3
229 25.3 17.2 25.8



#31
Chrysene
Concen: 0.110 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.04 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:228 Resp: 3014
Ion Ratio Lower Upper
228 100
226 32.2 23.7 35.5
229 25.3 16.5 24.7#





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.088 ng

RT: 21.15 min Scan# 1612

Delta R.T. -0.04 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampleId :

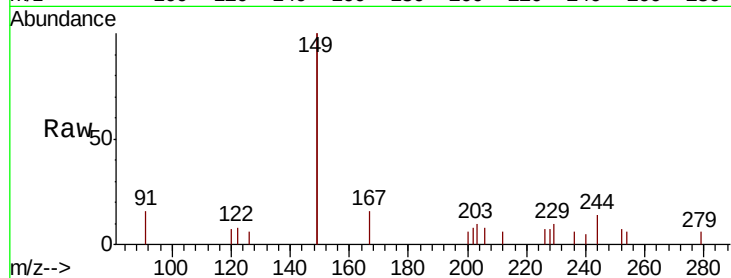
Tot Ion:149 Resp: 2359

Ion Ratio Lower Upper

149 100

167 7.9 5.9 8.9

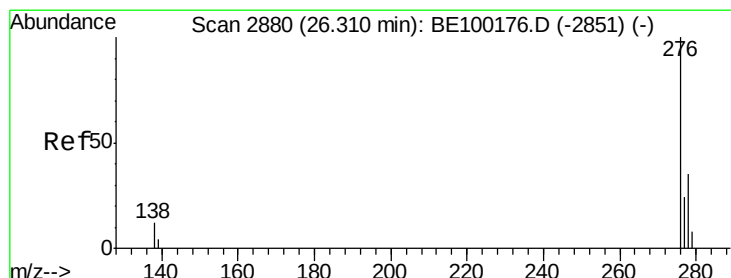
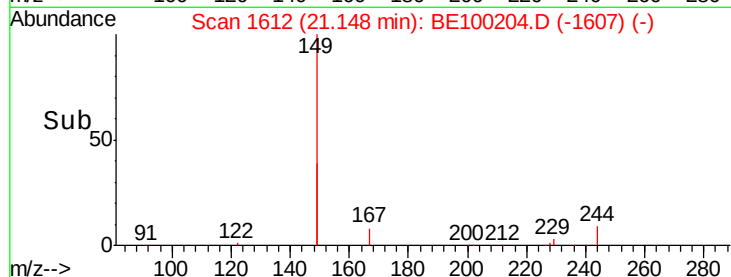
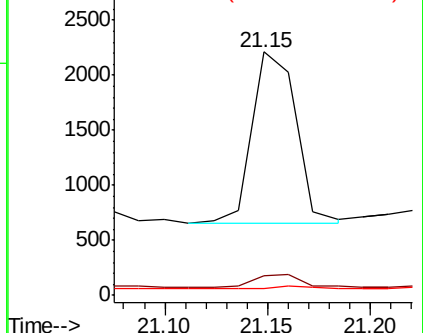
279 1.6 1.0 1.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.040 ng

RT: 26.22 min Scan# 2856

Delta R.T. -0.09 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

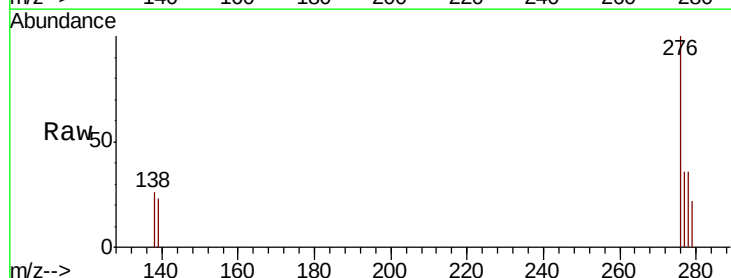
Tgt Ion:276 Resp: 1575

Ion Ratio Lower Upper

276 100

138 4.6 3.7 5.5

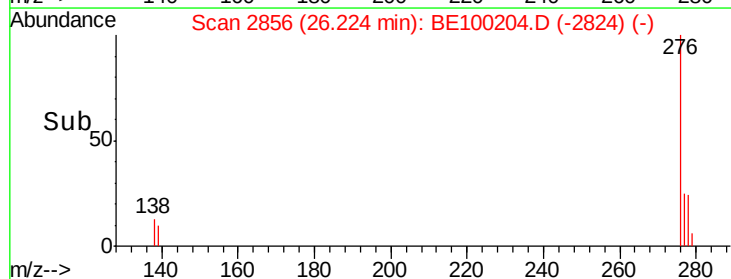
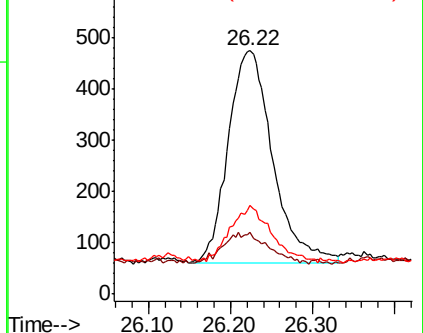
277 25.1 18.7 28.1

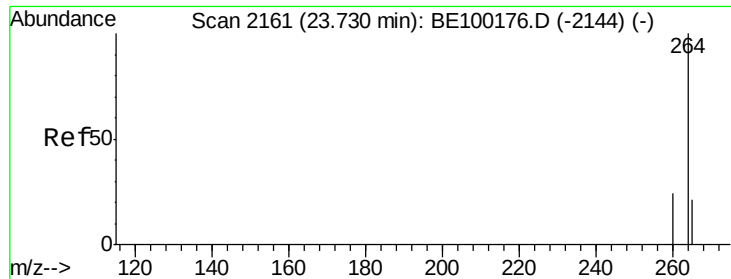


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

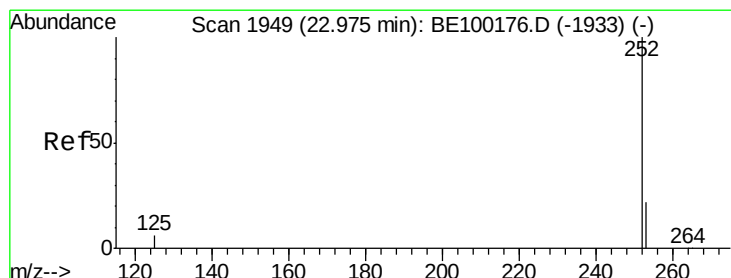
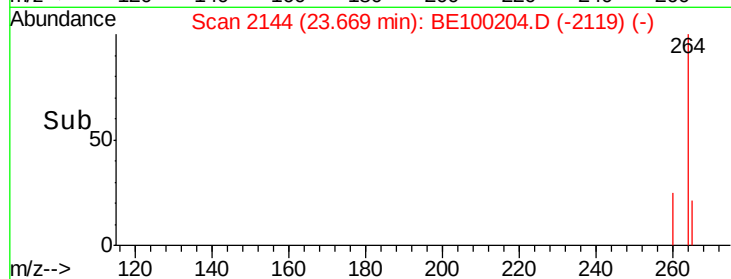
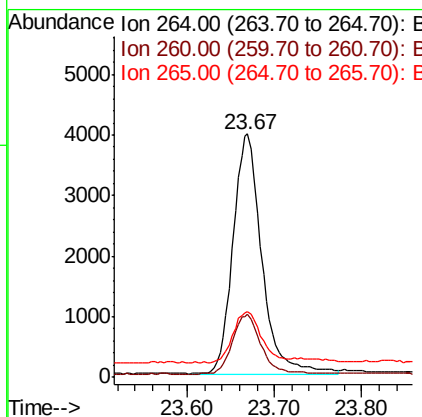
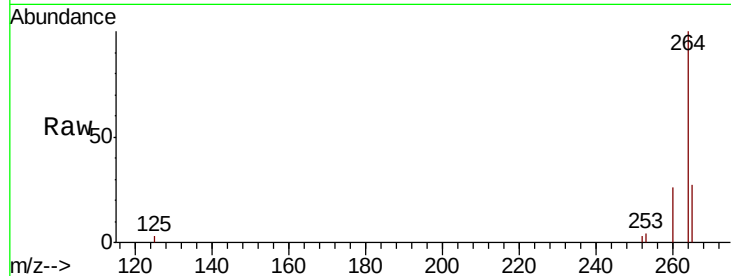




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2144
Delta R.T. -0.06 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

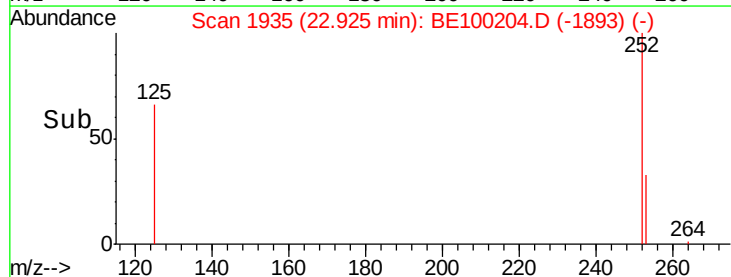
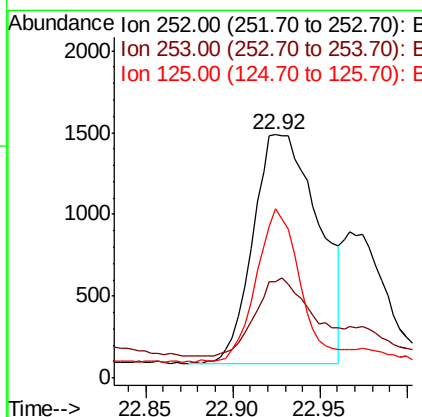
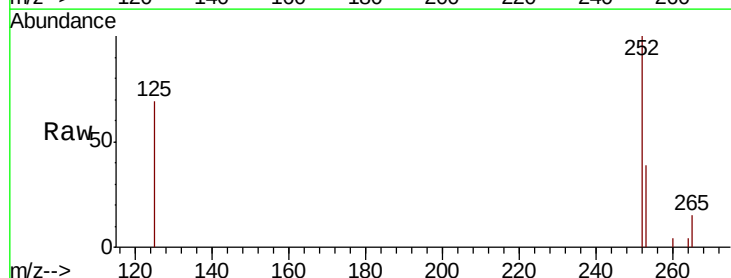
Instrument :
BNA_E
ClientSampleId :

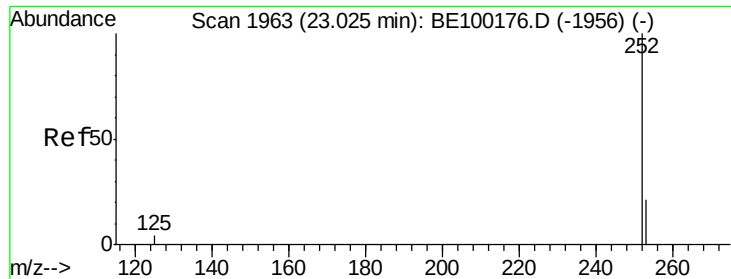
Tot Ion:264 Resp: 9069
Ion Ratio Lower Upper
264 100
260 26.1 20.4 30.6
265 27.0 22.5 33.7



#35
Benzo(b)fluoranthene
Concen: 0.149 ng
RT: 22.92 min Scan# 1935
Delta R.T. -0.05 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:252 Resp: 3644
Ion Ratio Lower Upper
252 100
253 39.4 19.0 28.4#
125 69.3 6.3 9.5#

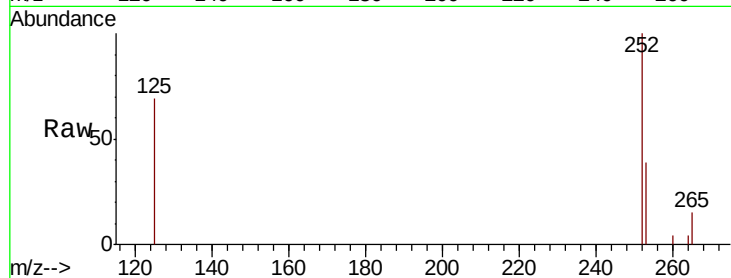




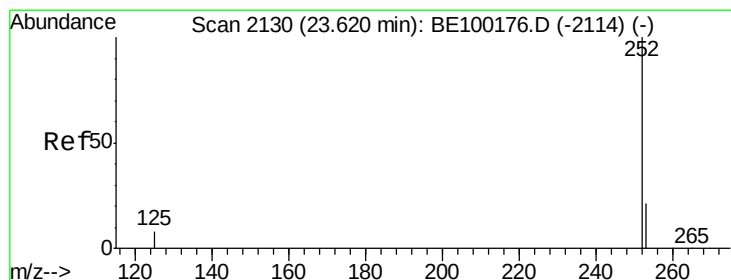
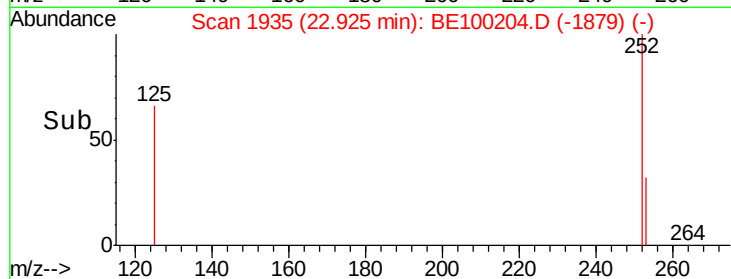
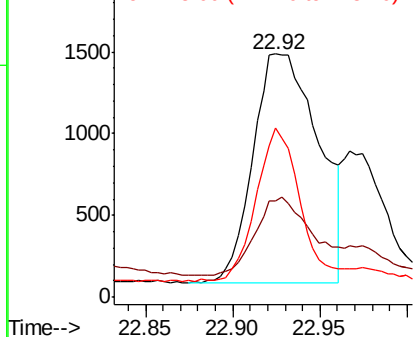
#36
Benzo(k)fluoranthene
Concen: 0.125 ng
RT: 22.92 min Scan# 1935
Delta R.T. -0.10 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 3644
Ion Ratio Lower Upper
252 100
253 39.4 18.4 27.6#
125 69.3 5.0 7.4#

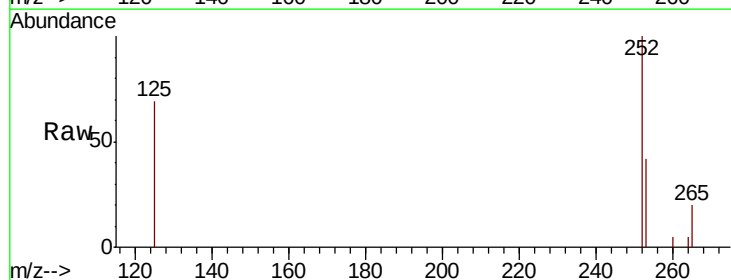


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

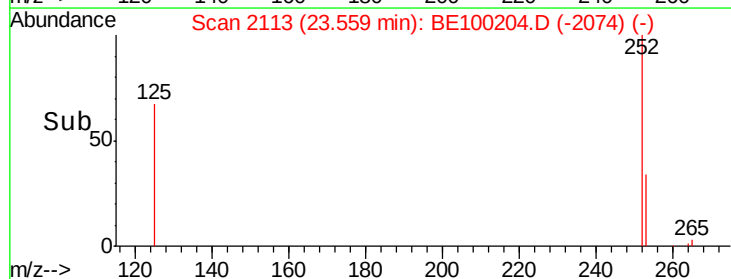
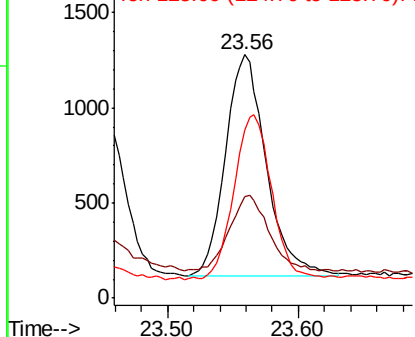


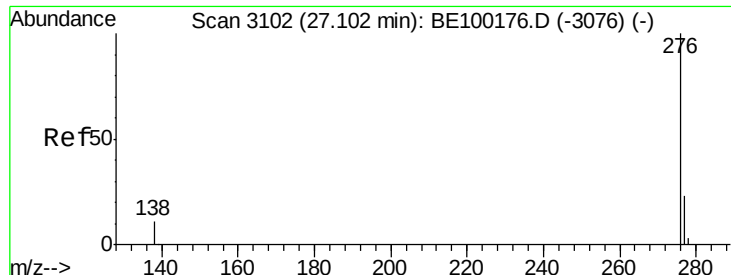
#37
Benzo(a)pyrene
Concen: 0.100 ng
RT: 23.56 min Scan# 2113
Delta R.T. -0.06 min
Lab File: BE100204.D
Acq: 27 Jun 2019 14:52

Tgt Ion:252 Resp: 2523
Ion Ratio Lower Upper
252 100
253 42.0 19.2 28.8#
125 69.2 8.2 12.2#



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





#39

Benzo(a,h,i)perylene

Concen: 0.056 ng

RT: 27.00 min Scan# 3074

Delta R.T. -0.10 min

Lab File: BE100204.D

Acq: 27 Jun 2019 14:52

Instrument :

BNA_E

ClientSampleId :

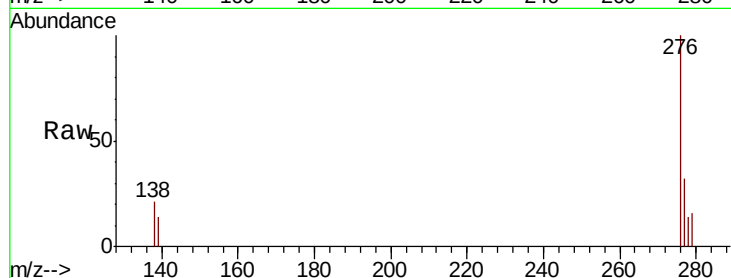
Tot Ion: 276 Resp: 1584

Ion Ratio Lower Upper

276 100

277 32.5 19.8 29.6#

138 21.4 10.2 15.4#



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

