

Data File : BP001642.D
Acq On : 16 Jan 2020 23:12
Operator : JU
Sample : L1148-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SB-31-(2-4)

Quant Time: Jan 17 04:35:29 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 14 21:52:04 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	38425	20.00	ng	-0.01
21) Naphthalene-d8	10.40	136	140536	20.00	ng	-0.01
39) Acenaphthene-d10	14.27	164	93525	20.00	ng	-0.01
64) Phenanthrene-d10	17.04	188	202752	20.00	ng	-0.01
76) Chrysene-d12	21.15	240	175517	20.00	ng	-0.01
87) Perylene-d12	23.38	264	184405	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	226426	115.43	ng	0.00
7) Phenol-d6	6.83	99	330641	105.47	ng	0.00
23) Nitrobenzene-d5	8.78	82	232361	72.25	ng	-0.01
42) 2,4,6-Tribromophenol	15.78	330	131454	92.34	ng	-0.01
45) 2-Fluorobiphenyl	12.89	172	459352	72.21	ng	-0.01
79) Terphenyl-d14	19.63	244	634808	66.15	ng	-0.01

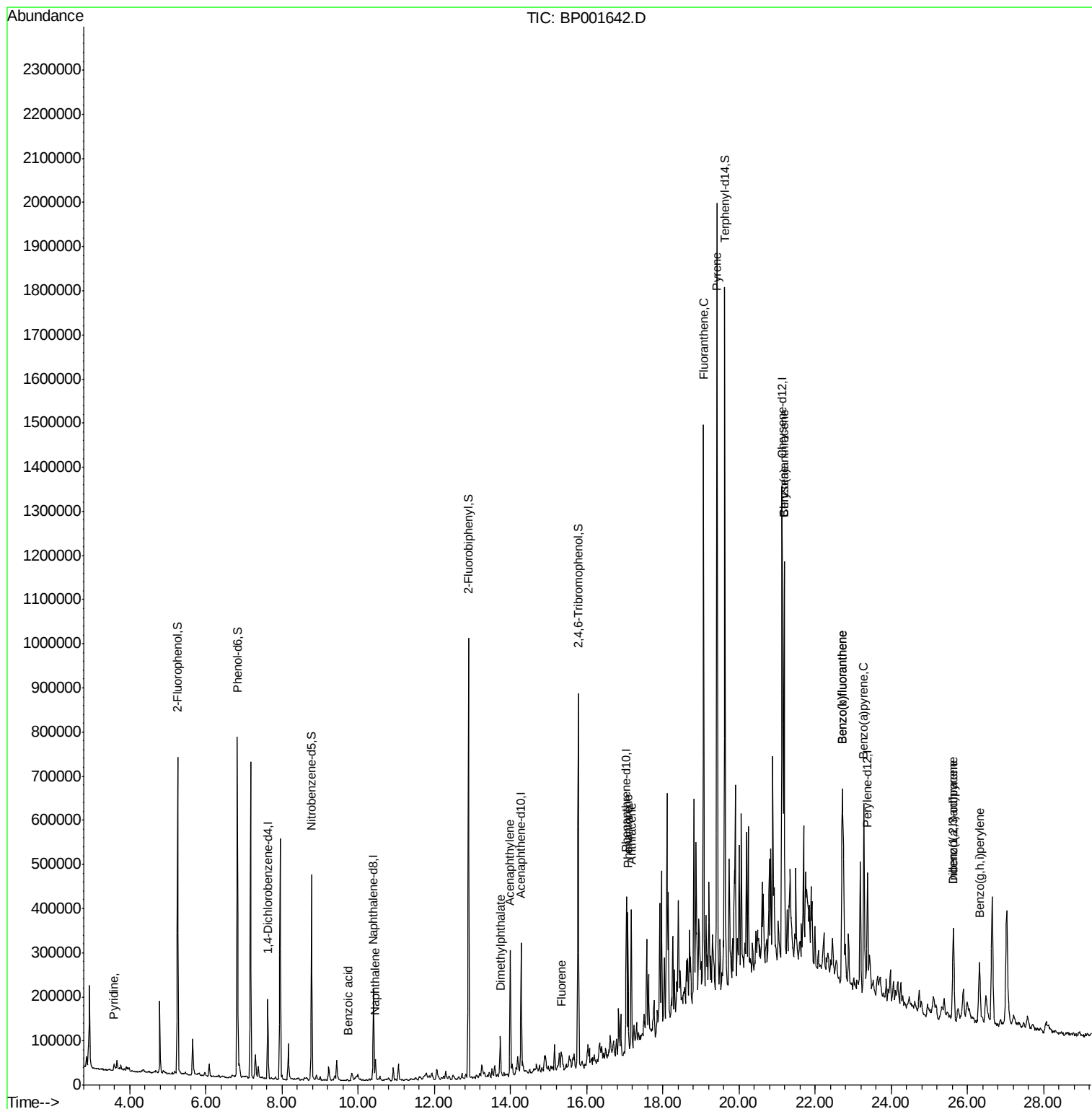
Target Compounds				Qvalue		
3) Pyridine	3.59	79	8740	3.864	ng	# 32
31) Naphthalene	10.45	128	29971	4.041	ng	98
32) Benzoic acid	9.73	122	220	4.823	ng	93
49) Acenaphthylene	13.99	152	194752	22.671	ng	99
50) Dimethylphthalate	13.74	163	23634	3.068	ng	# 97
58) Fluorene	15.33	166	24227	3.328	ng	91
71) Phenanthrene	17.08	178	172954	15.686	ng	99
72) Anthracene	17.17	178	186184	17.345	ng	97
75) Fluoranthene	19.07	202	641197	44.194	ng	98
78) Pyrene	19.42	202	1005160	77.961	ng	99
81) Benzo(a)anthracene	21.19	228	460840	37.701	ng	95
83) Chrysene	21.19	228	460840	38.685	ng	97
86) Indeno(1,2,3-cd)pyrene	25.63	276	164183	11.774	ng	99
88) Benzo(b)fluoranthene	22.72	252	506755	43.610	ng	# 98
89) Benzo(k)fluoranthene	22.72	252	506755	44.728	ng	# 97
90) Benzo(a)pyrene	23.28	252	285917	25.914	ng	# 98
91) Dibenzo(a,h)anthracene	25.63	278	54307	4.771	ng	# 92
92) Benzo(g,h,i)perylene	26.32	276	165141	14.593	ng	98

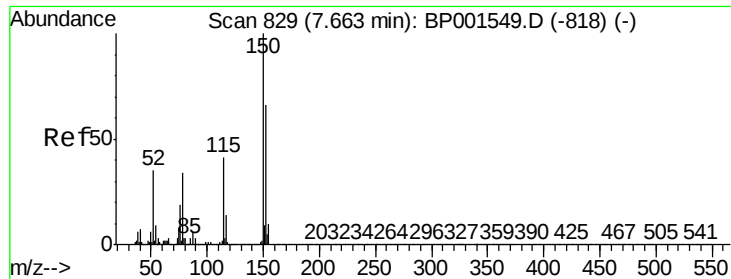
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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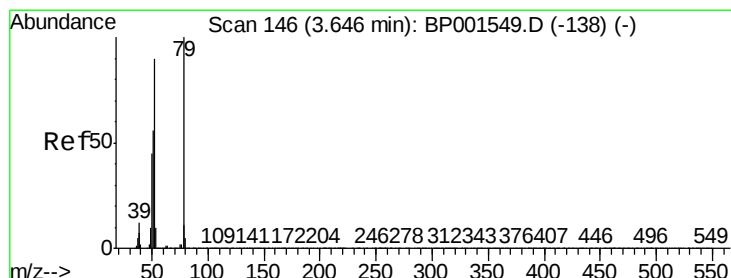
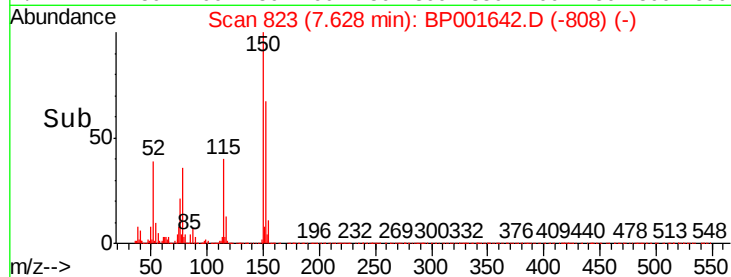
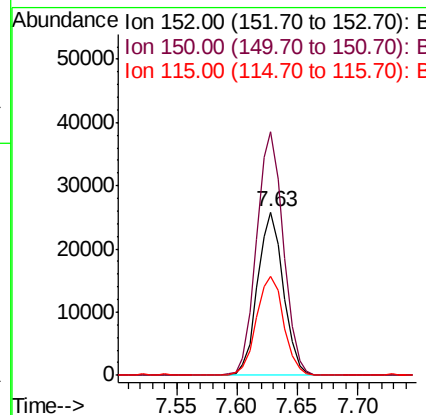
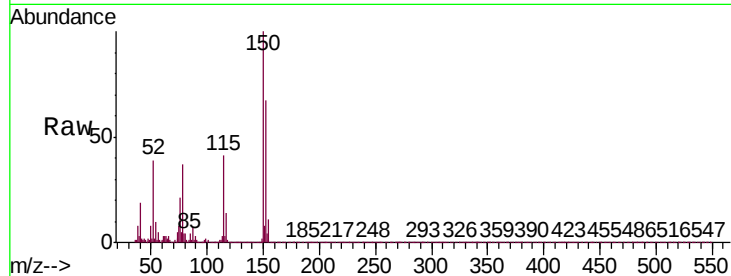


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.63 min Scan# 823
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Instrument :
BNA_P
ClientSampleId :
SB-31-(2-4)

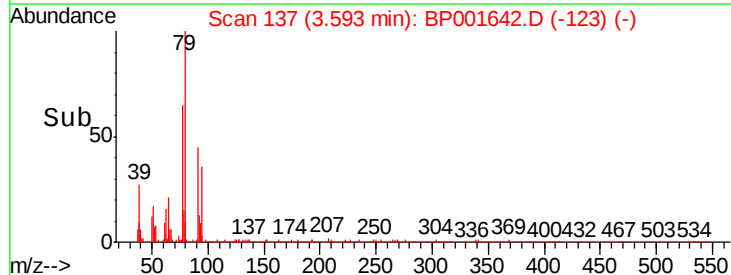
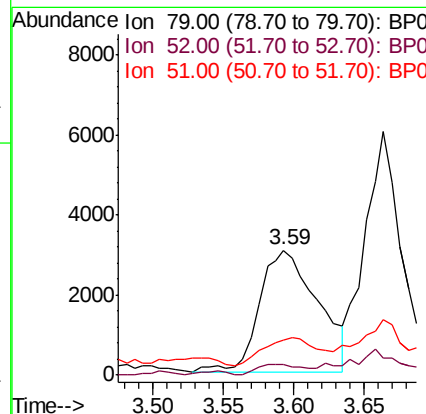
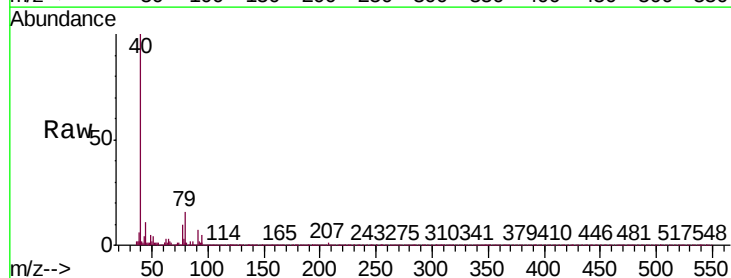
Tgt Ion:152 Resp: 38425
Ion Ratio Lower Upper
152 100
150 149.2 122.0 183.0
115 60.6 50.7 76.1

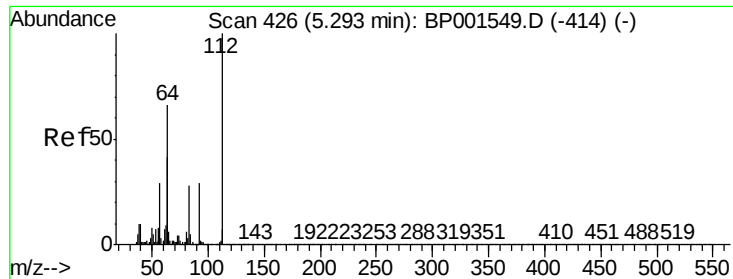


#3

Pyridine
Concen: 3.864 ng
RT: 3.59 min Scan# 137
Delta R.T. -0.02 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion: 79 Resp: 8740
Ion Ratio Lower Upper
79 100
52 8.7 72.1 108.1#
51 27.5 44.8 67.2#





#5

2-Fluorophenol

Concen: 115.432 ng

RT: 5.26 min Scan# 420

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

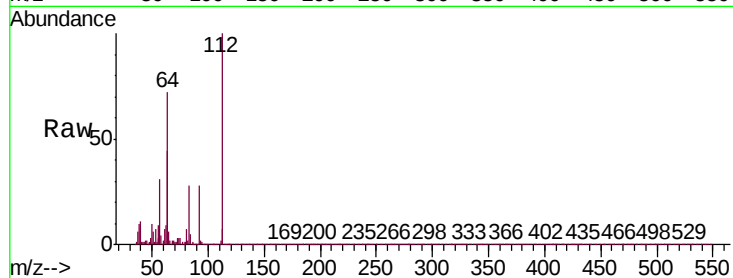
Tgt Ion: 112 Resp: 226426

Ion Ratio Lower Upper

112 100

64 71.8 52.8 79.2

63 43.9 33.1 49.7



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BP0

Ion 63.00 (62.70 to 63.70): BP0

200000

150000

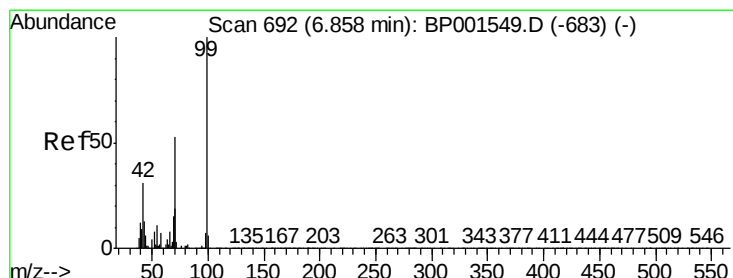
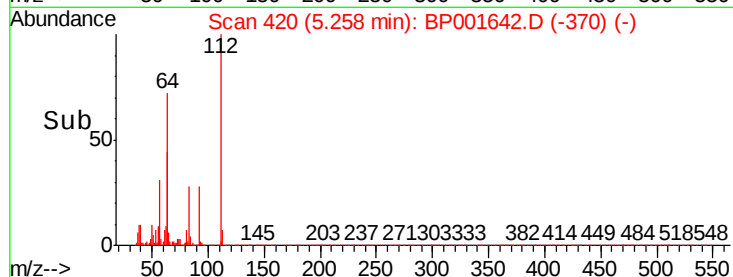
100000

50000

0

5.15 5.20 5.25 5.30 5.35

Time-->



#7

Phenol-d6

Concen: 105.469 ng

RT: 6.83 min Scan# 687

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

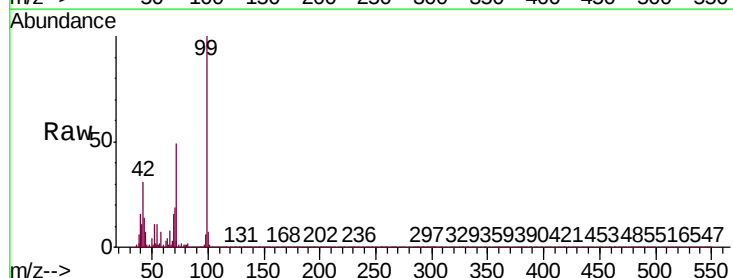
Tgt Ion: 99 Resp: 330641

Ion Ratio Lower Upper

99 100

42 31.4 24.5 36.7

71 48.8 42.4 63.6



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0

300000

250000

200000

150000

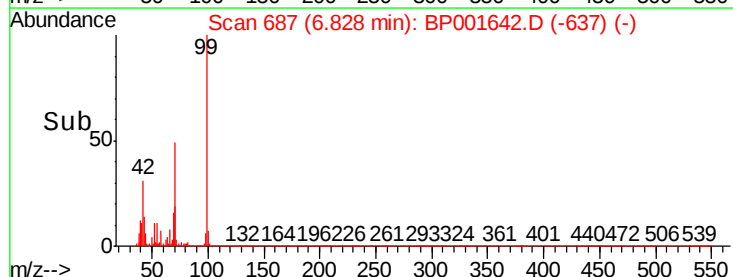
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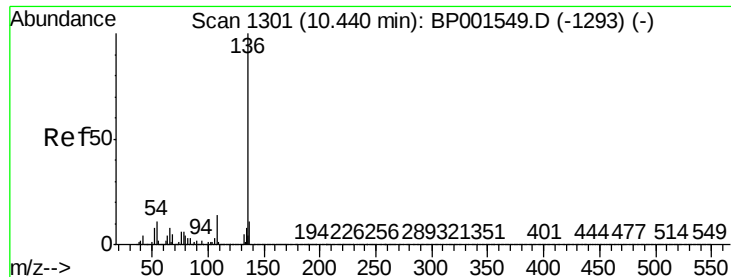
50000

0

6.80 6.83 6.90

Time-->

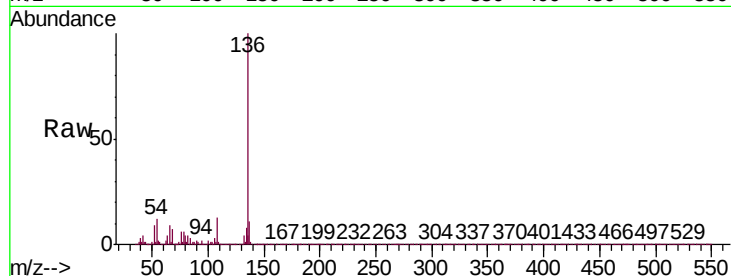




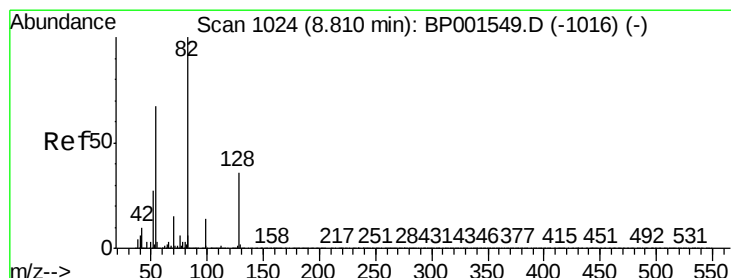
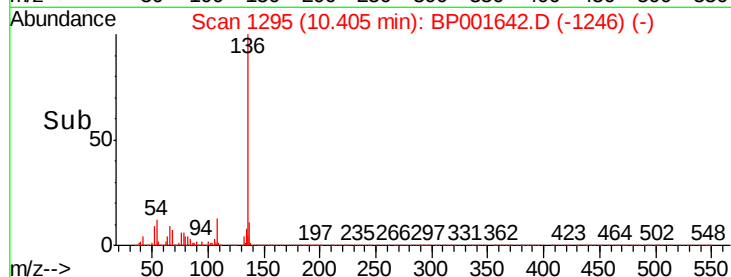
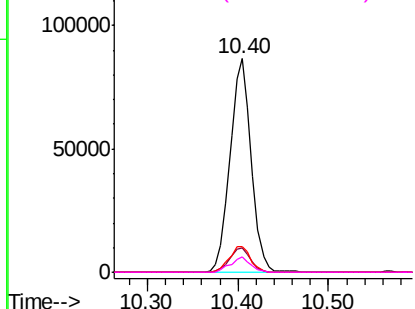
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.40 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Instrument :
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ClientSampleId :
SB-31-(2-4)

Tgt Ion:	136	Resp:	140536
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.6	12.8
54	11.9	9.2	13.8
68	7.0	4.1	6.1#

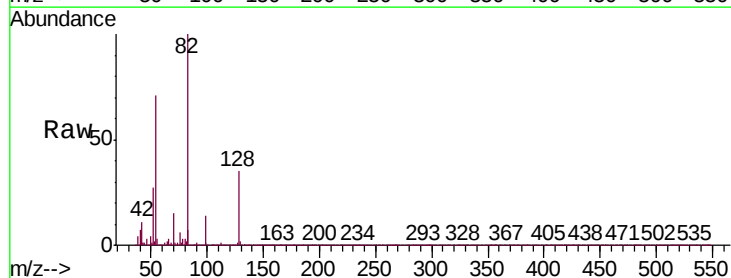


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BP0
Ion 68.00 (67.70 to 68.70): BP0

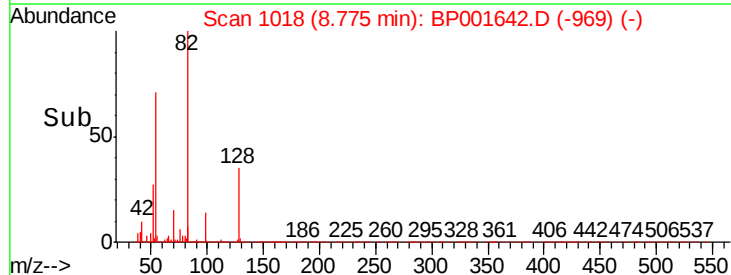
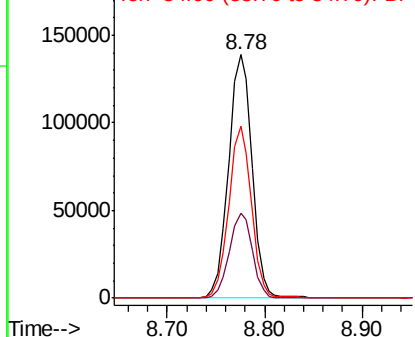


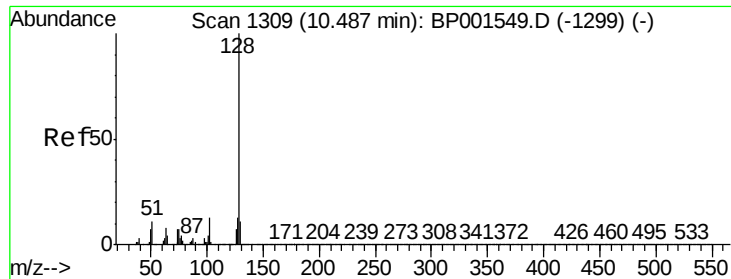
#23
Nitrobenzene-d5
Concen: 72.249 ng
RT: 8.78 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion:	82	Resp:	232361
Ion	Ratio	Lower	Upper
82	100		
128	34.8	28.4	42.6
54	70.7	53.4	80.2



Abundance Ion 82.00 (81.70 to 82.70): BP0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BP0

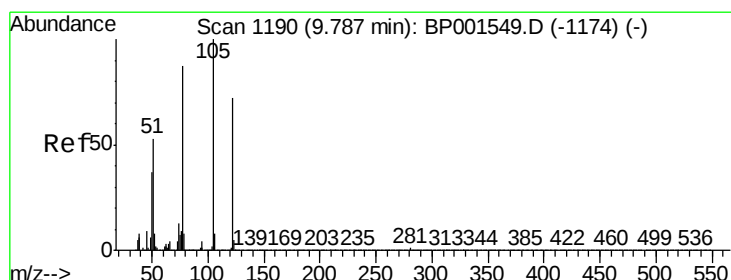
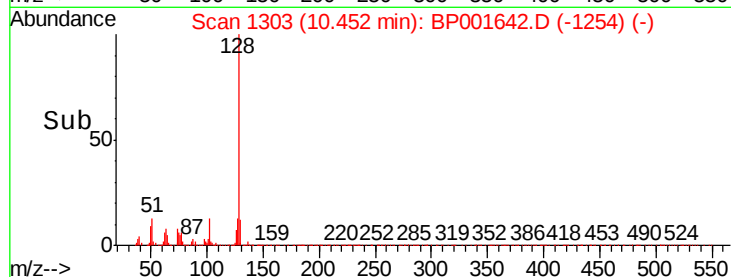
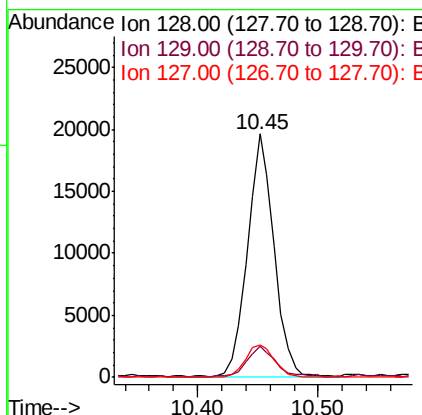
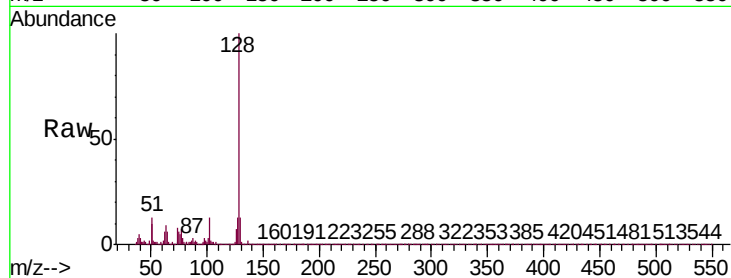




#31
Naphthalene
Concen: 4.041 ng
RT: 10.45 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

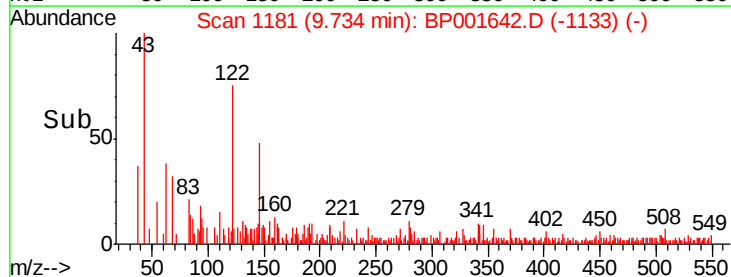
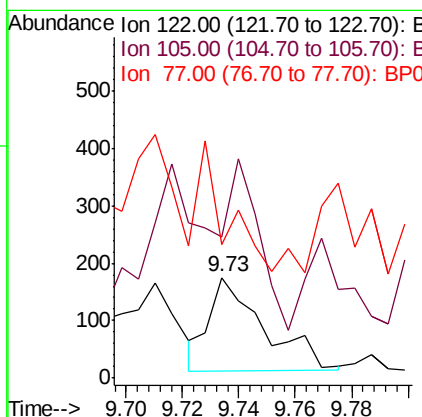
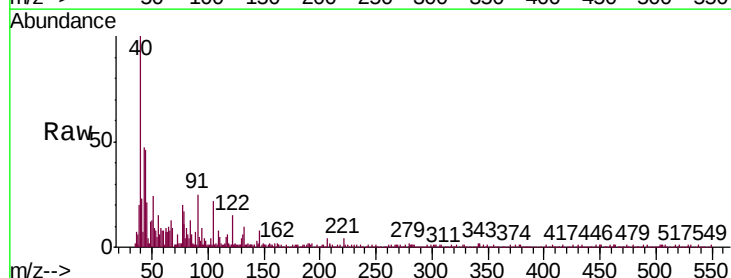
Instrument :
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ClientSampleId :
SB-31-(2-4)

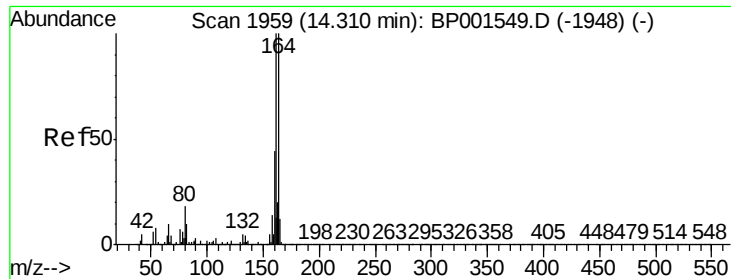
Tgt Ion:128 Resp: 29971
Ion Ratio Lower Upper
128 100
129 12.6 8.9 13.3
127 13.3 10.6 16.0



#32
Benzoic acid
Concen: 4.823 ng
RT: 9.73 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion:122 Resp: 220
Ion Ratio Lower Upper
122 100
105 144.6 119.5 159.5
77 133.1 102.8 142.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.27 min Scan# 1953

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

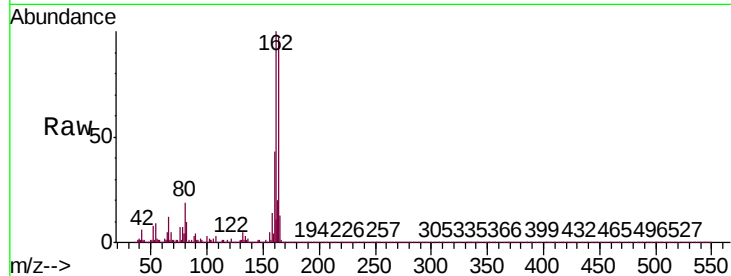
Tgt Ion:164 Resp: 93525

Ion Ratio Lower Upper

164 100

162 102.6 79.8 119.6

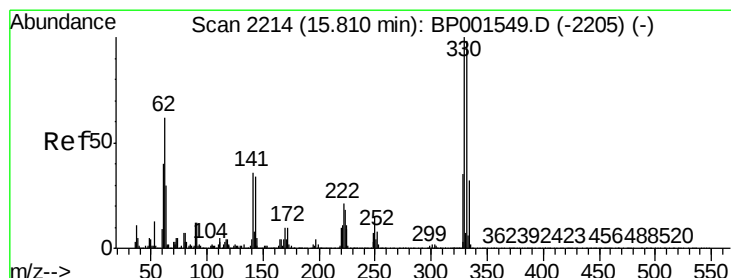
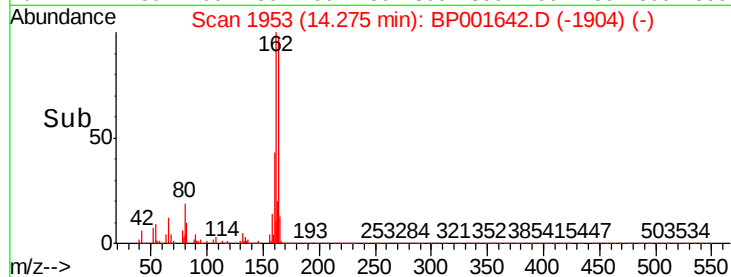
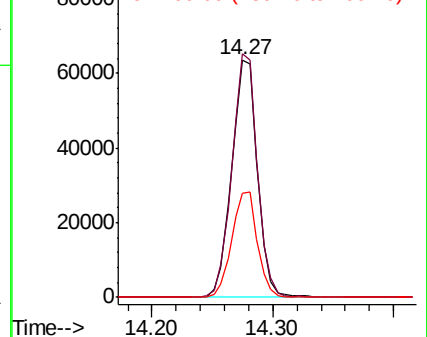
160 43.9 35.0 52.6



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



#42

2,4,6-Tribromophenol

Concen: 92.337 ng

RT: 15.78 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

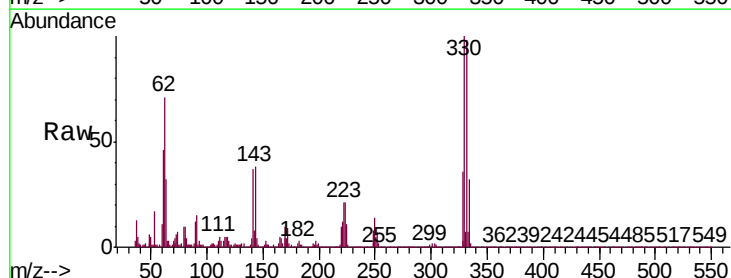
Tgt Ion:330 Resp: 131454

Ion Ratio Lower Upper

330 100

332 97.5 77.8 116.6

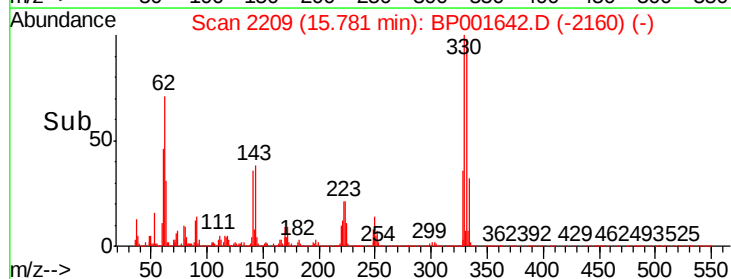
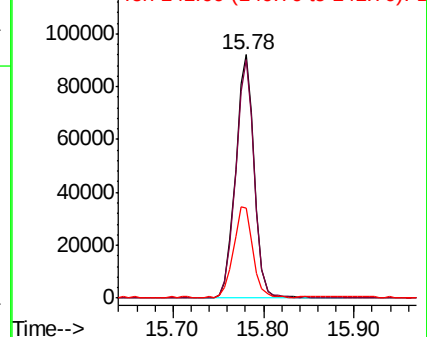
141 38.6 28.7 43.1

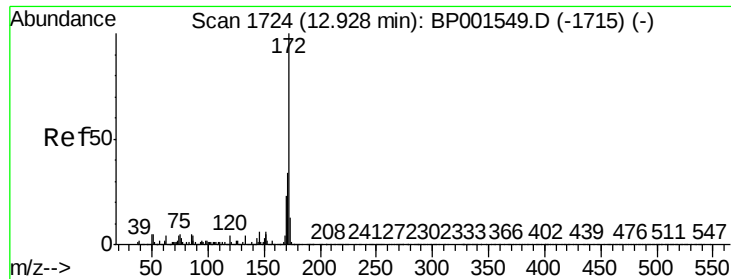


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 72.213 ng

RT: 12.89 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BP001642.D

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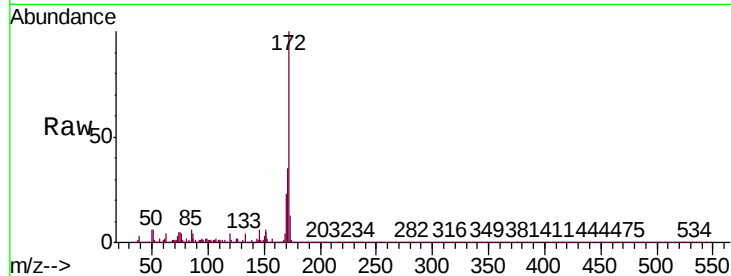
Tgt Ion:172 Resp: 459352

Ion Ratio Lower Upper

172 100

171 35.3 27.6 41.4

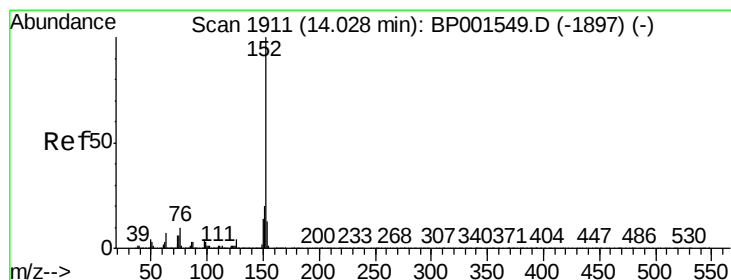
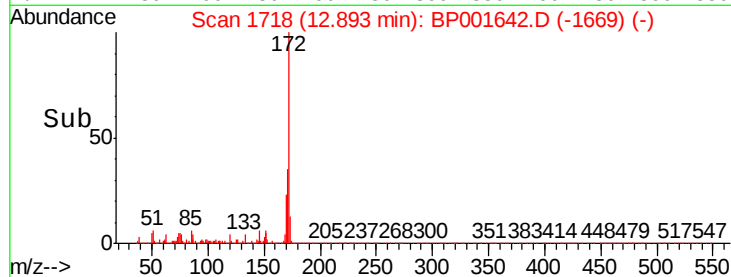
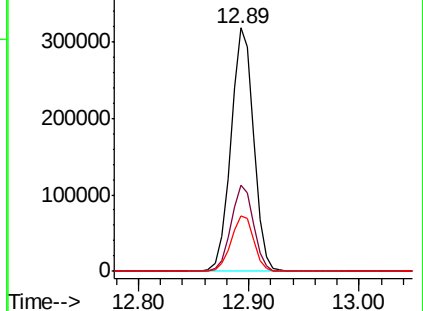
170 23.0 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Acenaphthylene

Concen: 22.671 ng

RT: 13.99 min Scan# 1905

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

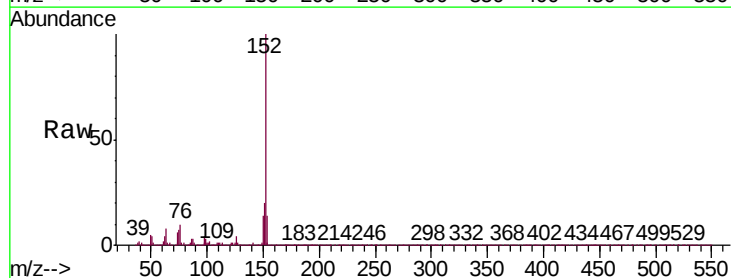
Tgt Ion:152 Resp: 194752

Ion Ratio Lower Upper

152 100

151 19.9 15.9 23.9

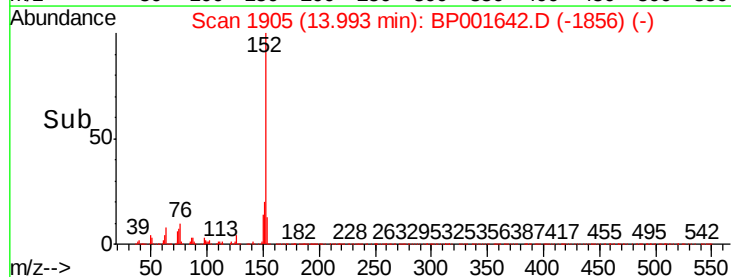
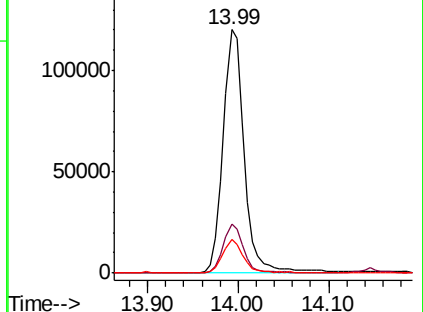
153 13.9 10.4 15.6

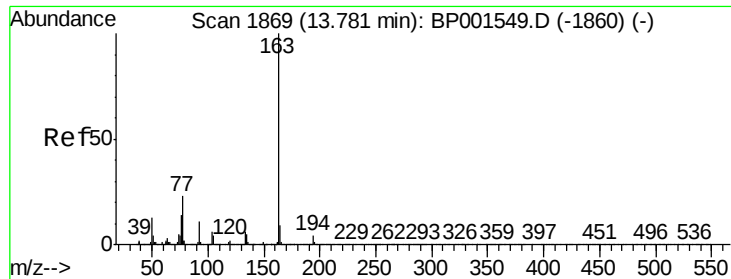


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

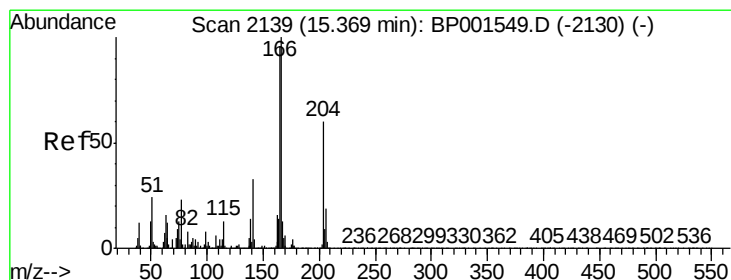
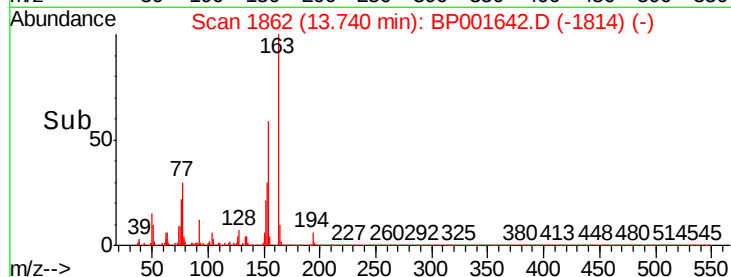
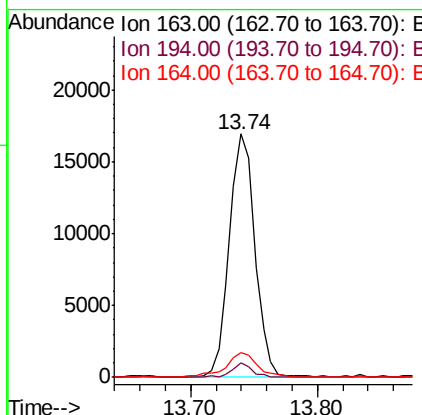
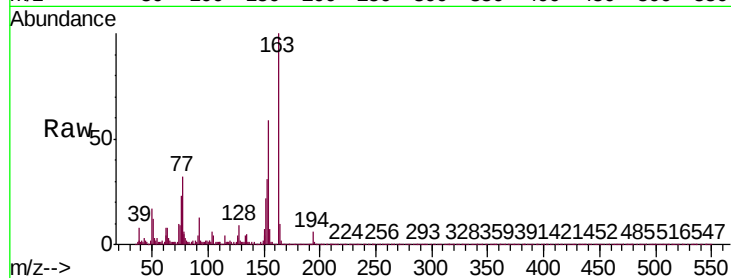




#50
Dimethylphthalate
Concen: 3.068 ng
RT: 13.74 min Scan# 1862
Delta R.T. -0.02 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

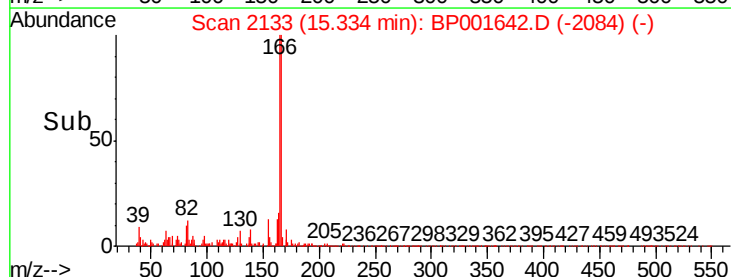
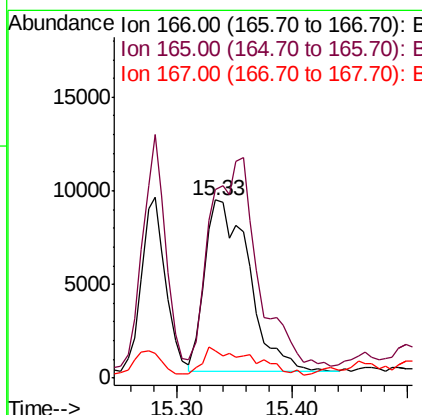
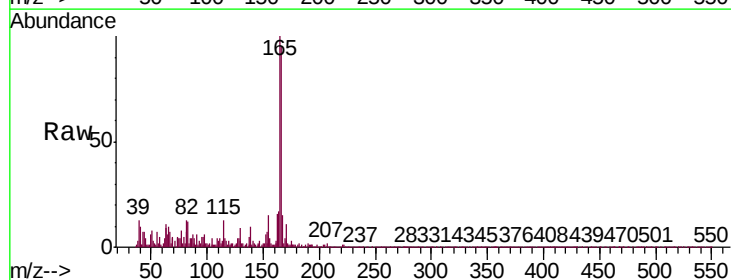
Instrument :
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ClientSampleId :
SB-31-(2-4)

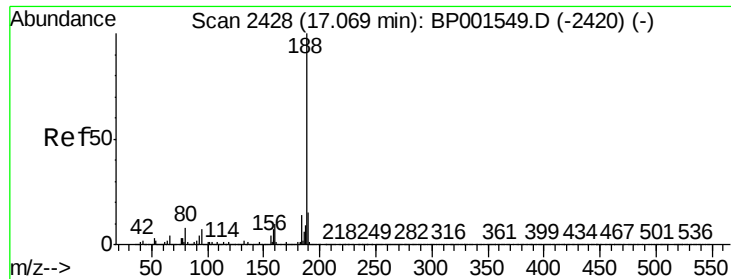
Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.8	3.6	5.4#
164	10.4	7.5	11.3



#58
Fluorene
Concen: 3.328 ng
RT: 15.33 min Scan# 2133
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion	Ratio	Lower	Upper
166	100		
165	105.5	76.9	115.3
167	15.4	10.3	15.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.04 min Scan# 2423

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

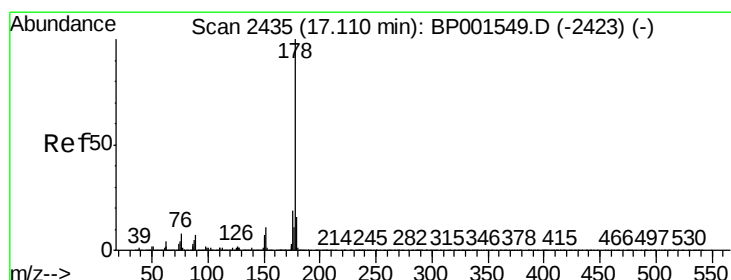
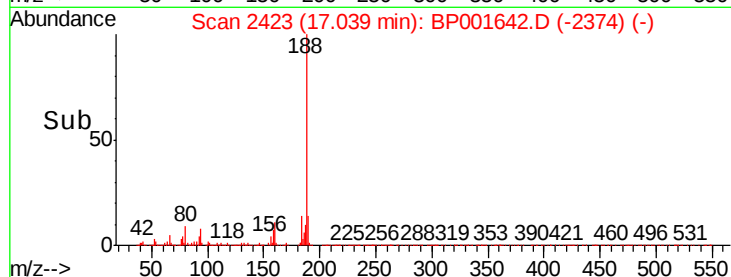
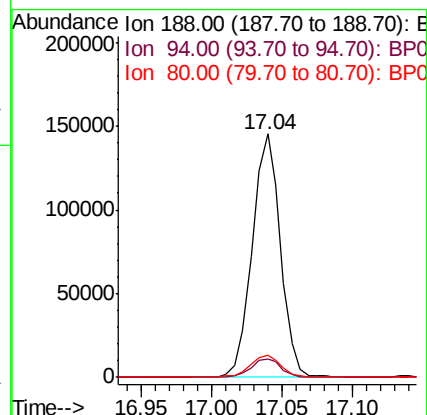
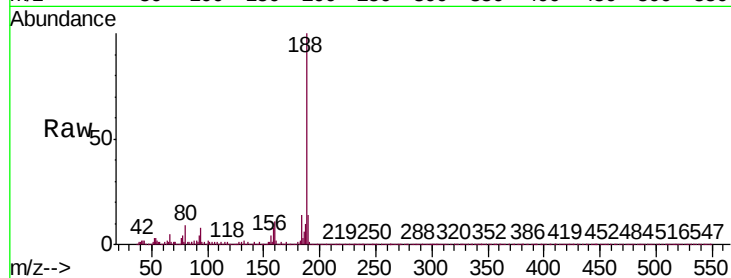
Tgt Ion:188 Resp: 202752

Ion Ratio Lower Upper

188 100

94 8.9 5.9 8.9#

80 9.4 6.8 10.2



#71

Phenanthrene

Concen: 15.686 ng

RT: 17.08 min Scan# 2430

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

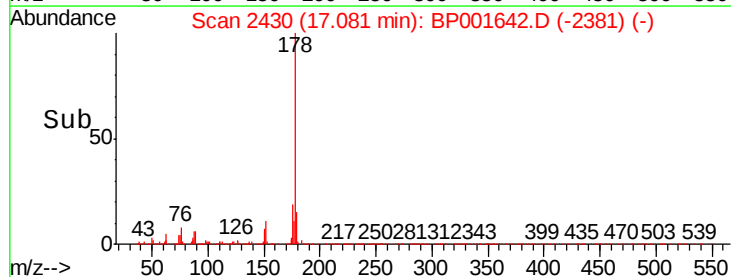
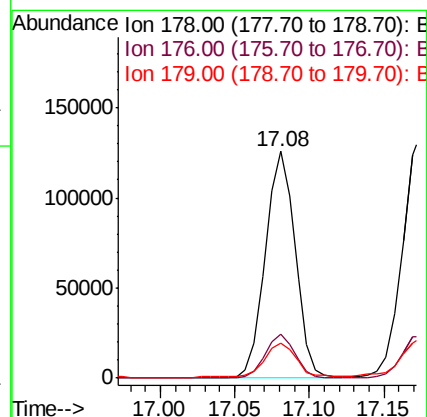
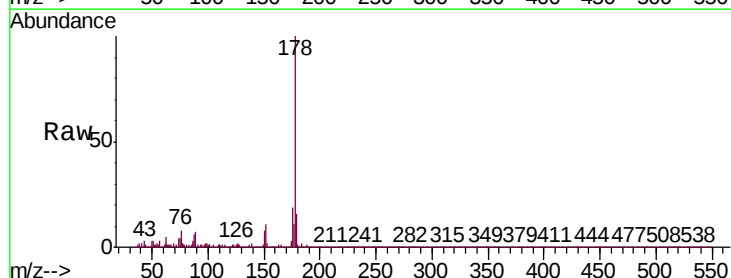
Tgt Ion:178 Resp: 172954

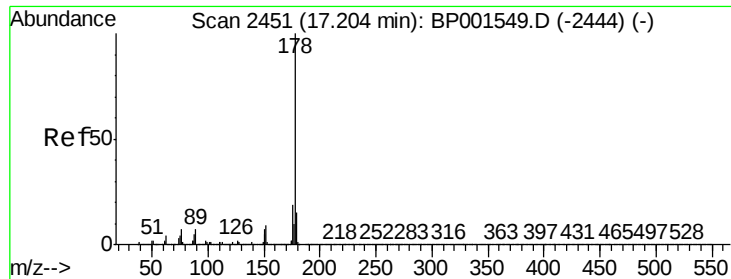
Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

179 15.7 12.5 18.7





#72

Anthracene

Concen: 17.345 ng

RT: 17.17 min Scan# 2446

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

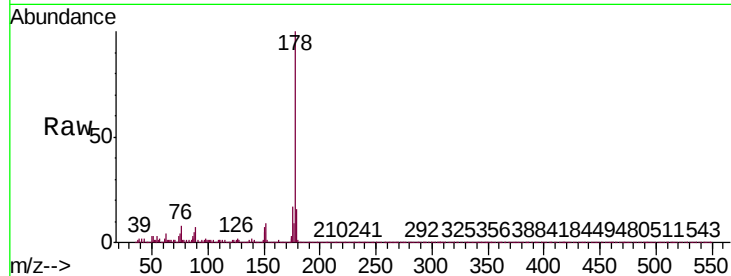
Tgt Ion:178 Resp: 186184

Ion Ratio Lower Upper

178 100

176 17.2 15.0 22.6

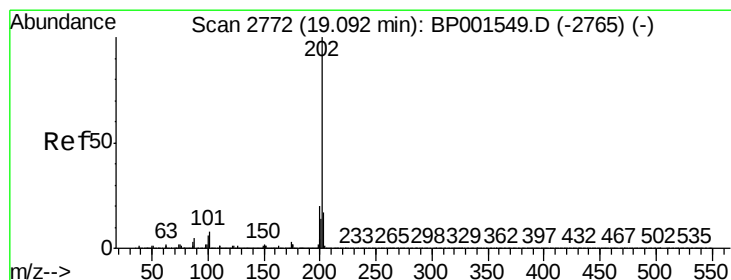
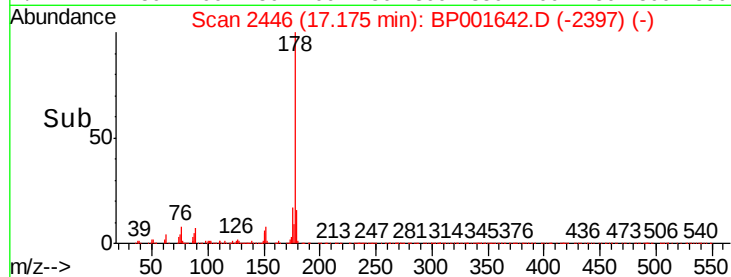
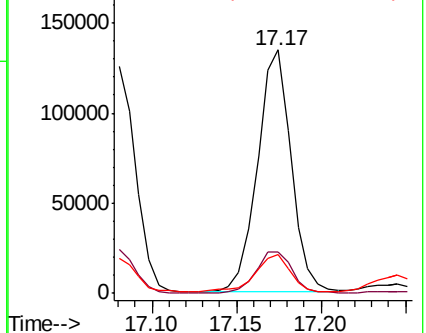
179 16.1 11.8 17.8



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



#75

Fluoranthene

Concen: 44.194 ng

RT: 19.07 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

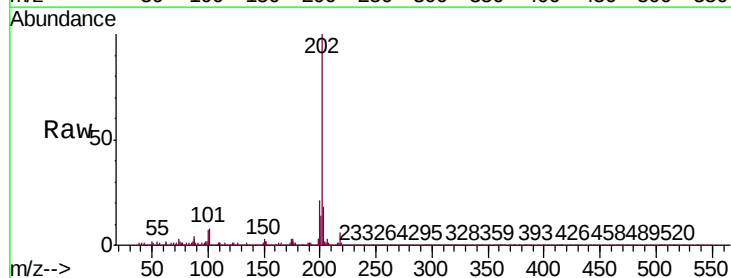
Tgt Ion:202 Resp: 641197

Ion Ratio Lower Upper

202 100

101 8.2 0.0 28.4

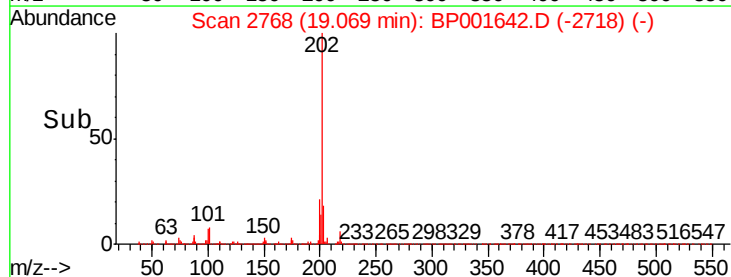
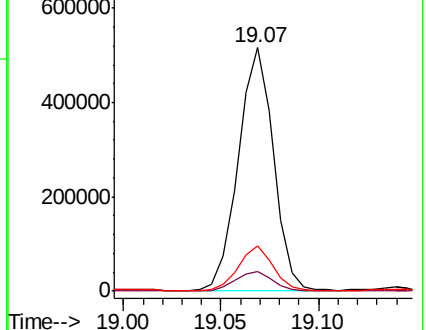
203 18.5 0.0 37.4

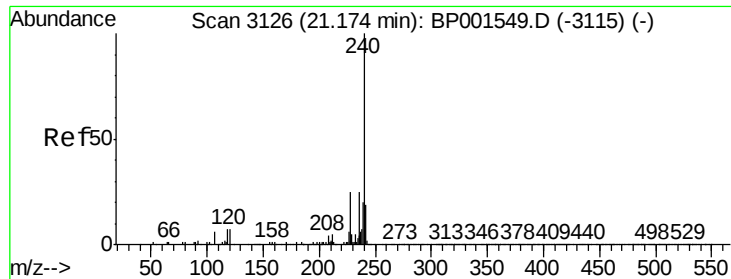


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

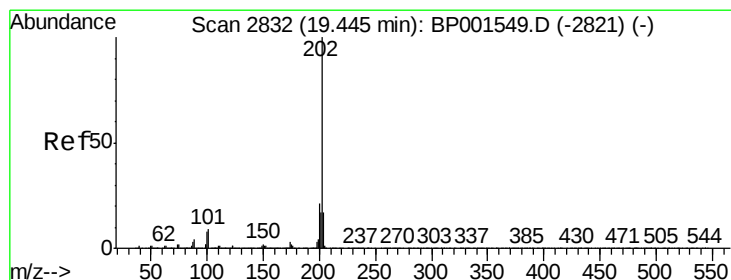
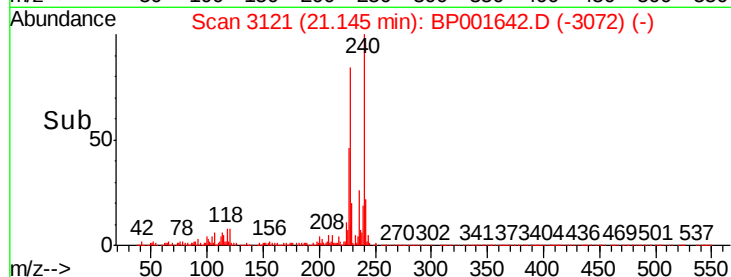
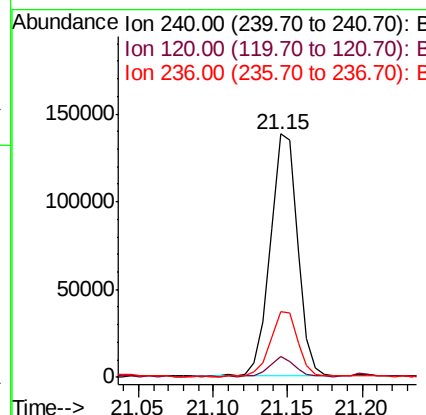
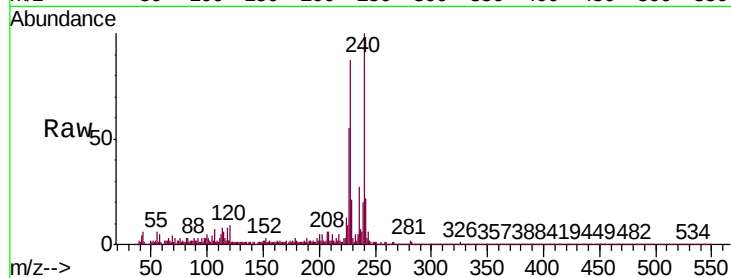




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.15 min Scan# 3121
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

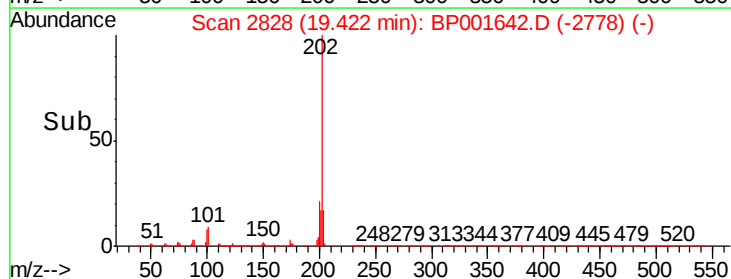
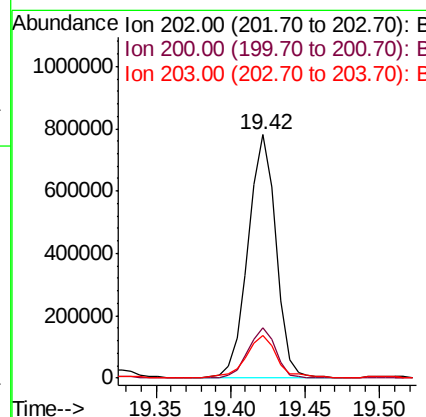
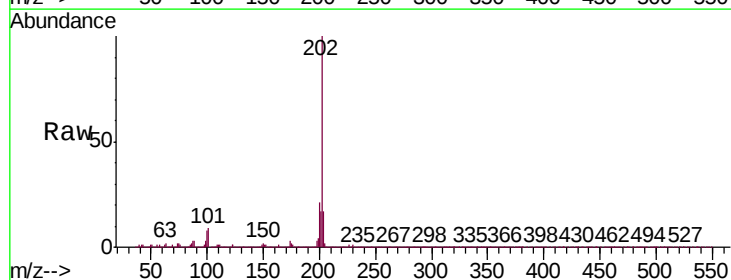
Instrument :
BNA_P
ClientSampleId :
SB-31-(2-4)

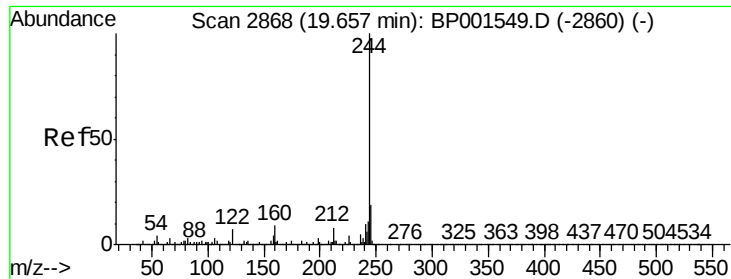
Tgt Ion:240 Resp: 175517
Ion Ratio Lower Upper
240 100
120 8.7 5.7 8.5#
236 26.8 20.4 30.6



#78
Pyrene
Concen: 77.961 ng
RT: 19.42 min Scan# 2828
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion:202 Resp: 1005160
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.6
203 17.4 13.7 20.5





#79

Terphenyl-d14

Concen: 66.152 ng

RT: 19.63 min Scan# 2863

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

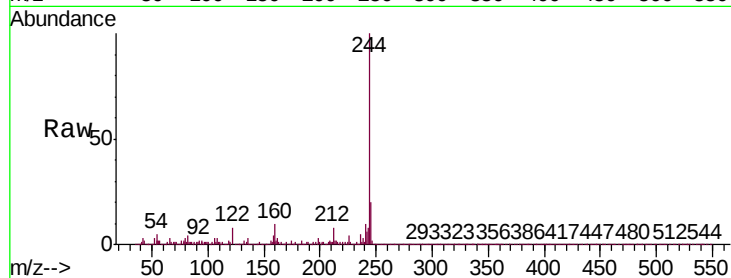
Tgt Ion:244 Resp: 634808

Ion Ratio Lower Upper

244 100

212 8.0 6.3 9.5

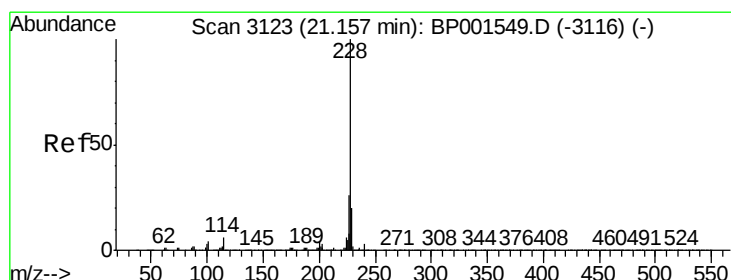
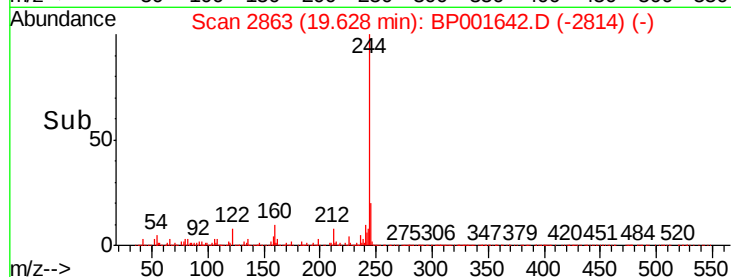
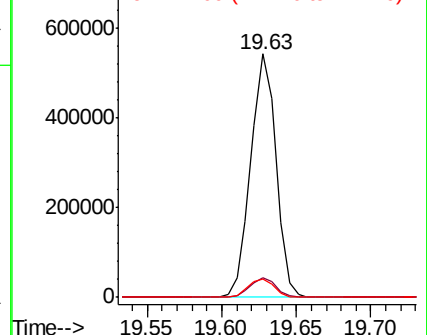
122 7.7 5.8 8.6



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



#81

Benzo(a)anthracene

Concen: 37.701 ng

RT: 21.19 min Scan# 3128

Delta R.T. 0.05 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

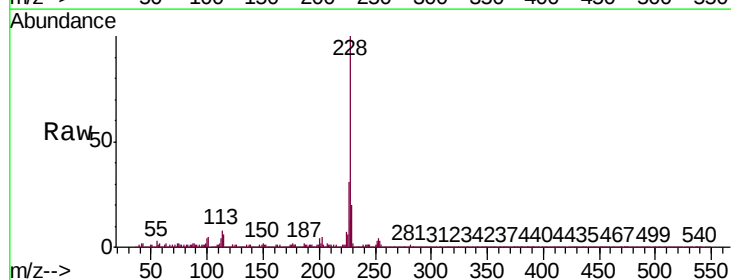
Tgt Ion:228 Resp: 460840

Ion Ratio Lower Upper

228 100

226 30.8 21.2 31.8

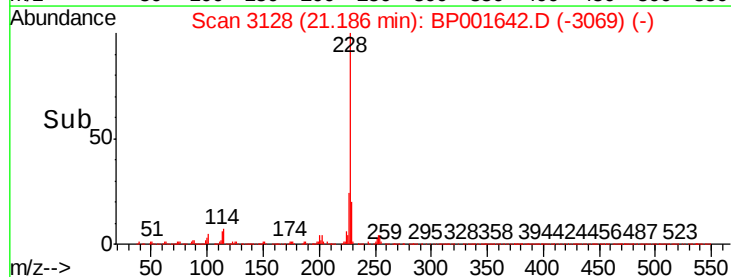
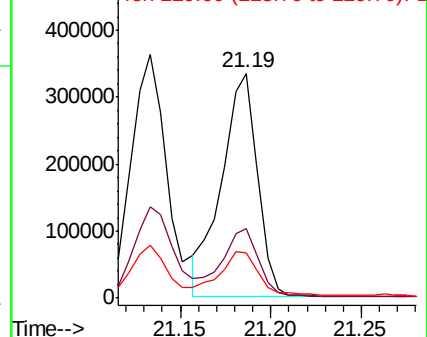
229 20.1 16.1 24.1

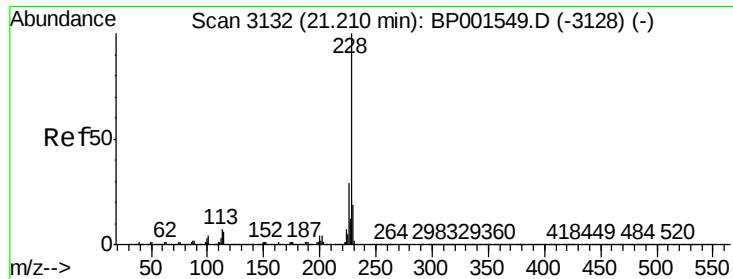


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 38.685 ng

RT: 21.19 min Scan# 3128

Delta R.T. -0.01 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

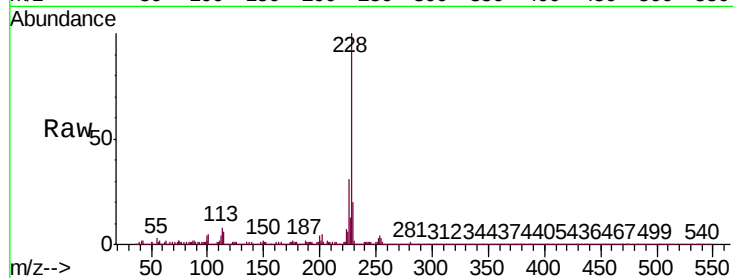
Tgt Ion:228 Resp: 460840

Ion Ratio Lower Upper

228 100

226 30.8 23.2 34.8

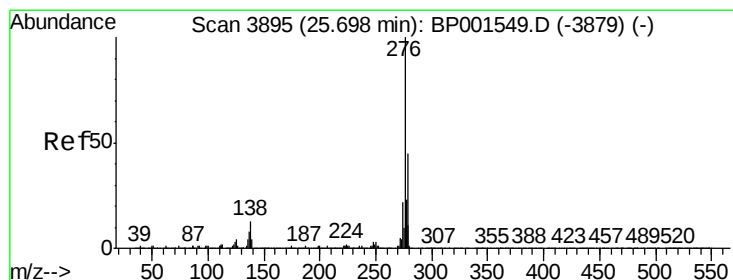
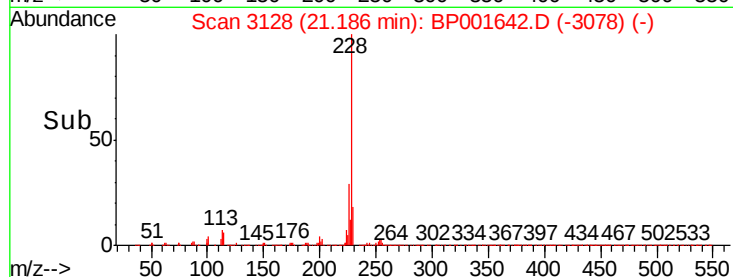
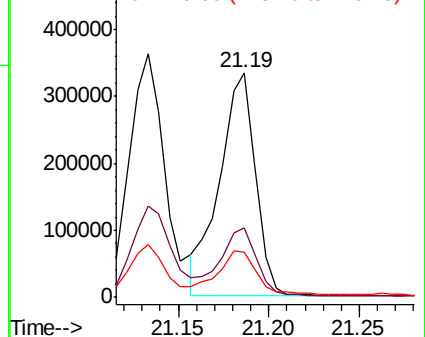
229 20.1 15.2 22.8



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 11.774 ng

RT: 25.63 min Scan# 3884

Delta R.T. -0.02 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

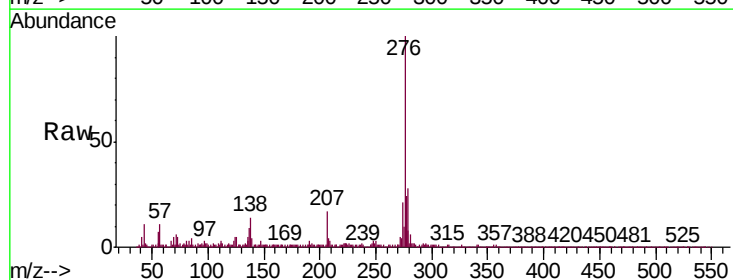
Tgt Ion:276 Resp: 164183

Ion Ratio Lower Upper

276 100

138 14.8 11.1 16.7

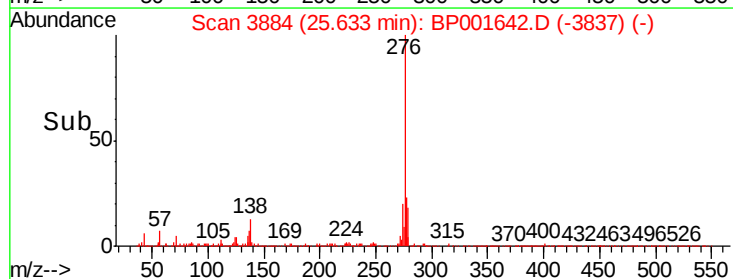
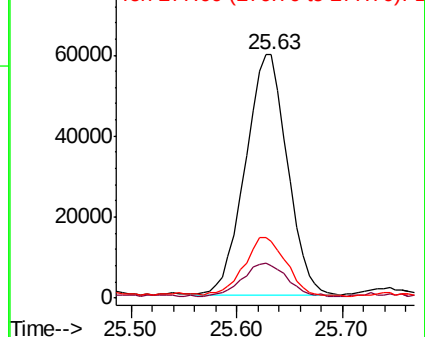
277 25.1 20.4 30.6

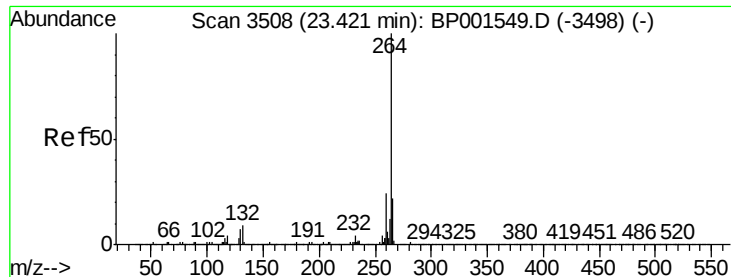


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

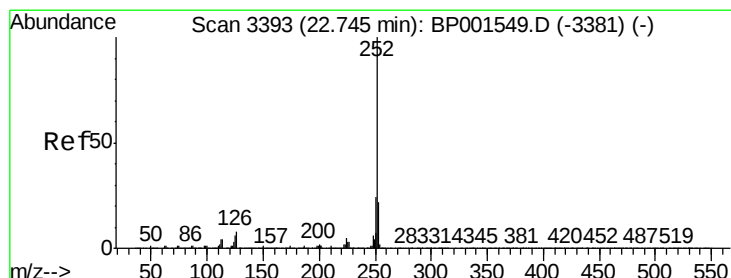
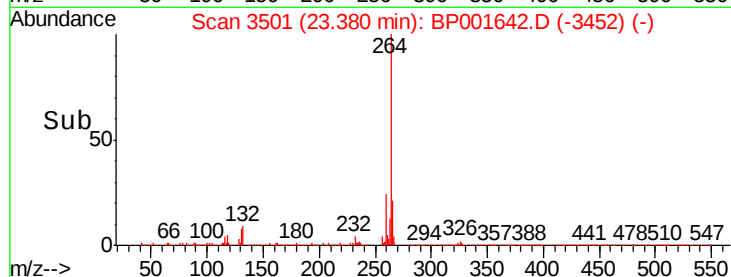
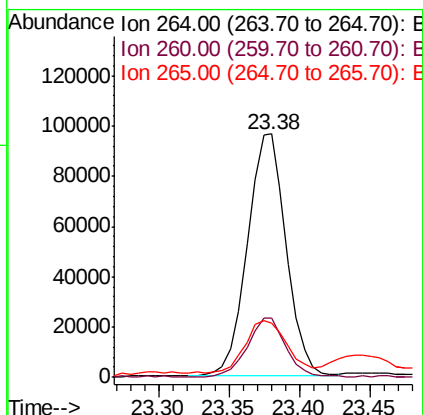
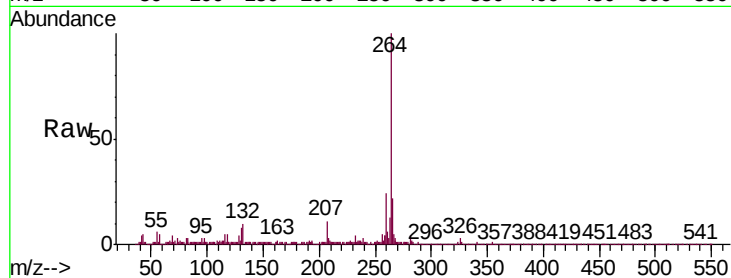




#87
Perylene-d12
Concen: 20.000 ng
RT: 23.38 min Scan# 3501
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

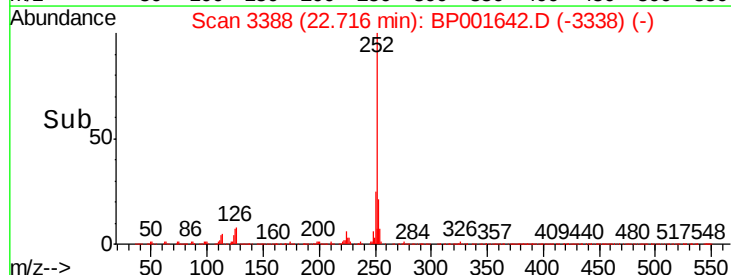
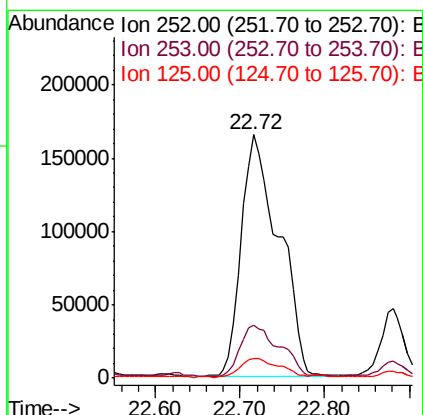
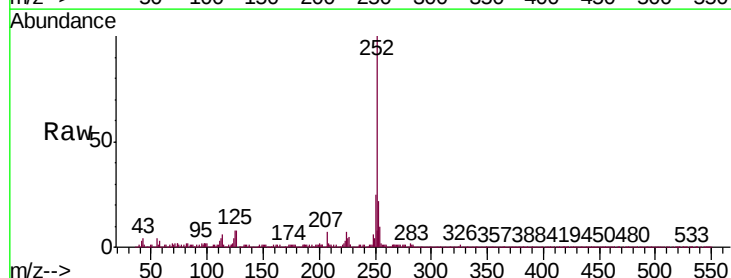
Instrument :
BNA_P
ClientSampleId :
SB-31-(2-4)

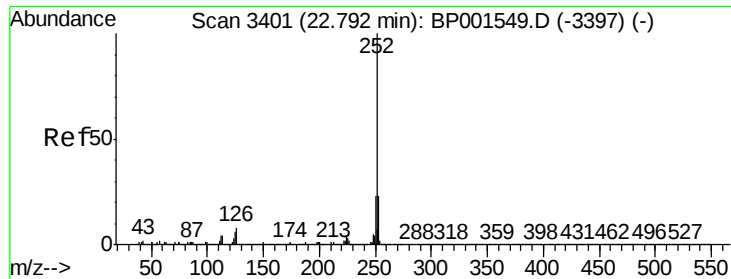
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.0	28.6
265	22.4	18.2	27.4



#88
Benzo(b)fluoranthene
Concen: 43.610 ng
RT: 22.72 min Scan# 3388
Delta R.T. -0.01 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	8.0	4.6	7.0





#89

Benzo(k)fluoranthene

Concen: 44.728 ng

RT: 22.72 min Scan# 3388

Delta R.T. -0.05 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

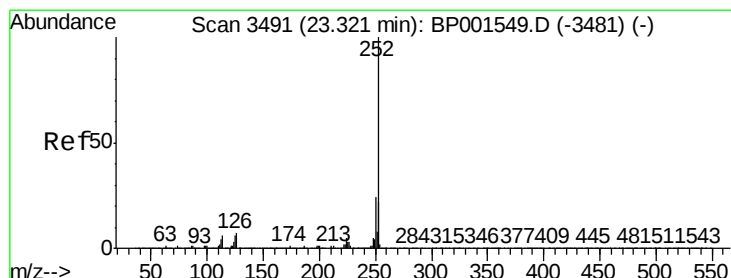
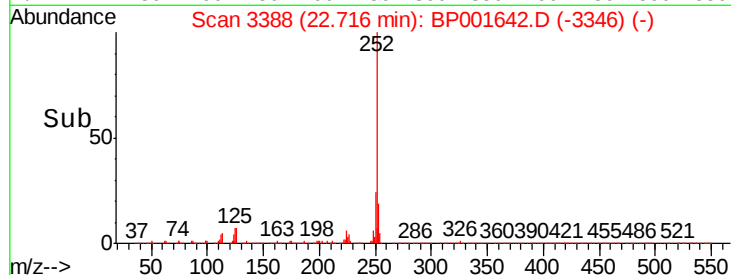
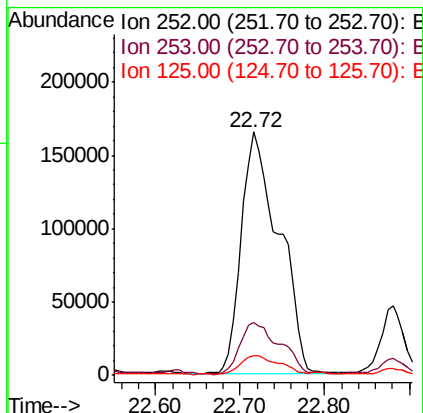
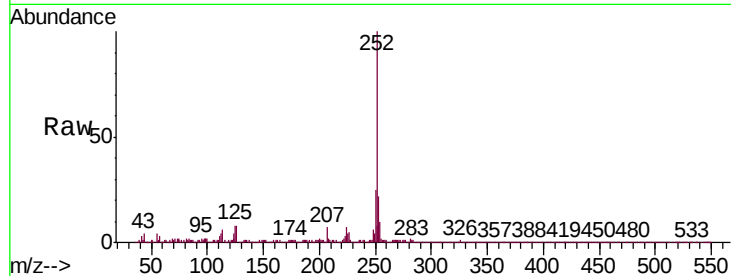
Instrument :

BNA_P

ClientSampleId :

SB-31-(2-4)

Tgt Ion:	252	Resp:	506755
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.2	27.2
125	8.0	4.6	6.8#



#90

Benzo(a)pyrene

Concen: 25.914 ng

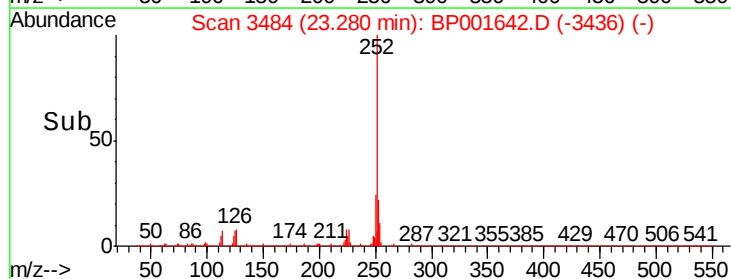
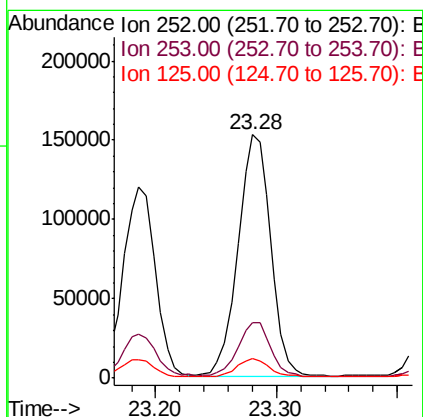
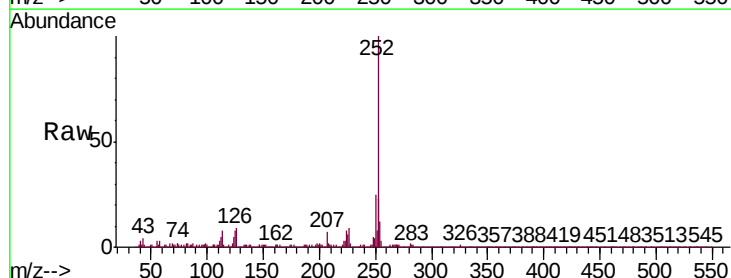
RT: 23.28 min Scan# 3484

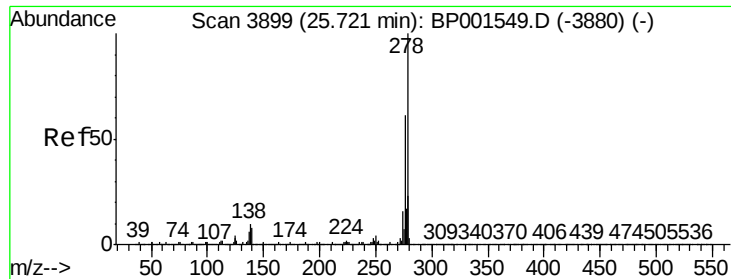
Delta R.T. -0.02 min

Lab File: BP001642.D

Acq: 16 Jan 2020 23:12

Tgt Ion:	252	Resp:	285917
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.6	26.4
125	7.9	5.0	7.4#

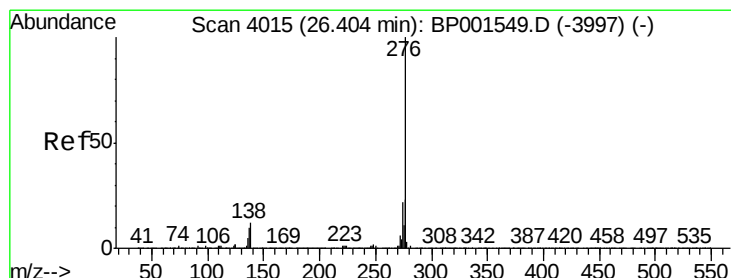
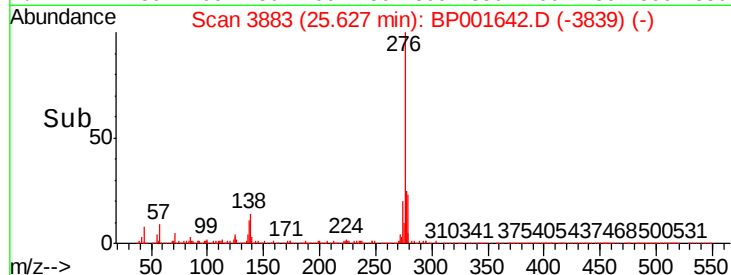
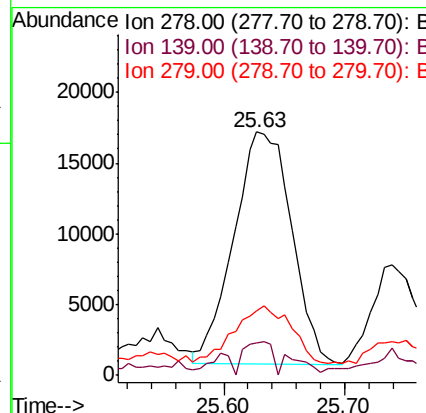
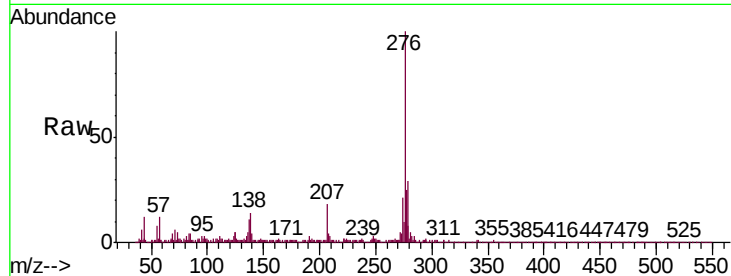




#91
Dibenzo(a,h)anthracene
Concen: 4.771 ng
RT: 25.63 min Scan# 3883
Delta R.T. -0.04 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Instrument :
BNA_P
ClientSampleId :
SB-31-(2-4)

Tgt Ion:278 Resp: 54307
Ion Ratio Lower Upper
278 100
139 13.1 6.7 10.1#
279 26.2 18.6 28.0



#92
Benzo(g,h,i)perylene
Concen: 14.593 ng
RT: 26.32 min Scan# 4001
Delta R.T. -0.02 min
Lab File: BP001642.D
Acq: 16 Jan 2020 23:12

Tgt Ion:276 Resp: 165141
Ion Ratio Lower Upper
276 100
277 23.2 18.6 28.0
138 13.8 9.4 14.2

