

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF041620\
 Data File : BF120027.D
 Acq On : 16 Apr 2020 11:13
 Operator : MA/SJ
 Sample : L2230-45 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-34

Quant Time: Apr 16 11:46:08 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	145374	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	539622	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	256114	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	435533	20.00	ng	0.00
76) Chrysene-d12	13.89	240	247228	20.00	ng	0.00
87) Perylene-d12	15.32	264	253348	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	176024	20.93	ng	0.00
7) Phenol-d6	6.35	99	236020	21.77	ng	-0.01
23) Nitrobenzene-d5	7.28	82	148955	14.28	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	51244	16.34	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	304882	16.90	ng	0.00
79) Terphenyl-d14	12.84	244	246939	16.81	ng	-0.01

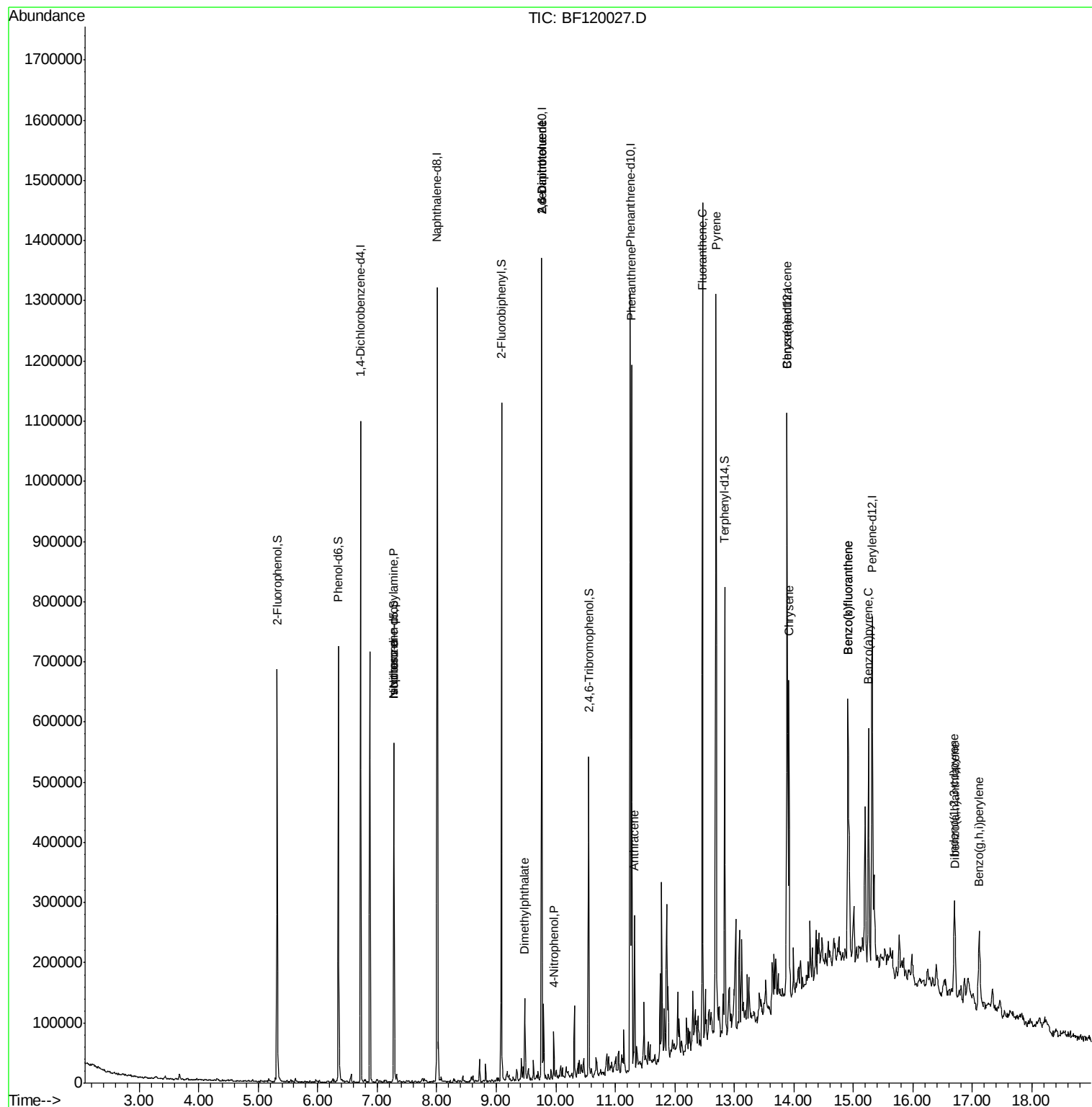
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.27	77	647	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.28	70	19358	2.777	ng	# 79
25) Isophorone	7.28	82	145783	7.250	ng	# 65
50) Dimethylphthalate	9.48	163	47158	2.381	ng	# 96
51) 2,6-Dinitrotoluene	9.76	165	34137	7.869	ng	# 20
56) 4-Nitrophenol	9.97	139	7392	2.005	ng	# 9
57) 2,4-Dinitrotoluene	9.76	165	34137	5.973	ng	# 23
71) Phenanthrene	11.27	178	387945	16.737	ng	# 98
72) Anthracene	11.32	178	92003	3.885	ng	# 98
75) Fluoranthene	12.46	202	529256	21.161	ng	# 97
78) Pyrene	12.69	202	480839	23.071	ng	# 99
81) Benzo(a)anthracene	13.88	228	225968	13.894	ng	# 99
83) Chrysene	13.92	228	189363	11.459	ng	# 98
86) Indeno(1,2,3-cd)pyrene	16.70	276	101661	6.979	ng	# 97
88) Benzo(b)fluoranthene	14.91	252	316423	17.362	ng	# 98
89) Benzo(k)fluoranthene	14.91	252	316423	20.122	ng	# 99
90) Benzo(a)pyrene	15.26	252	178506	11.649	ng	# 98
91) Dibenzo(a,h)anthracene	16.71	278	28010	2.064	ng	# 93
92) Benzo(a,h,i)perylene	17.12	276	96621	7.211	ng	# 98

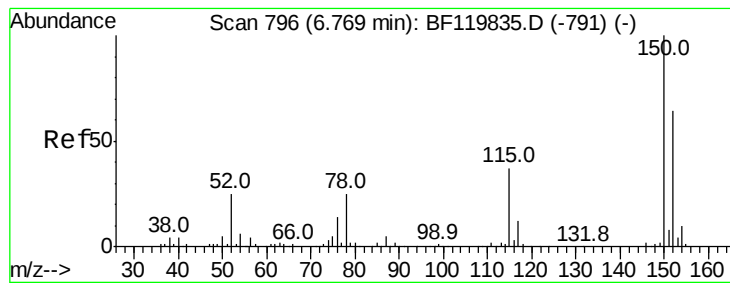
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.72 min Scan# 788

Delta R.T. -0.00 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Instrument :

BNA_F

ClientSampleId :

TP-34

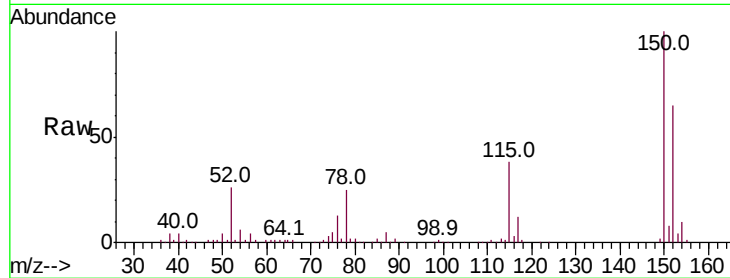
Tot Ion:152 Resp: 145374

Ion Ratio Lower Upper

152 100

150 154.2 124.8 187.2

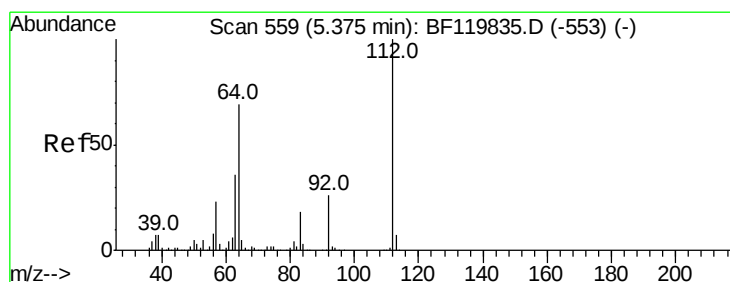
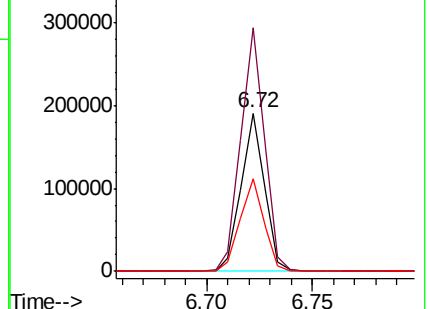
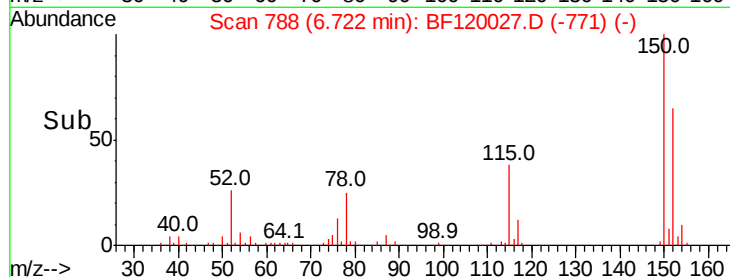
115 58.5 46.5 69.7



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



#5

2-Fluorophenol

Concen: 20.925 ng

RT: 5.32 min Scan# 549

Delta R.T. -0.01 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

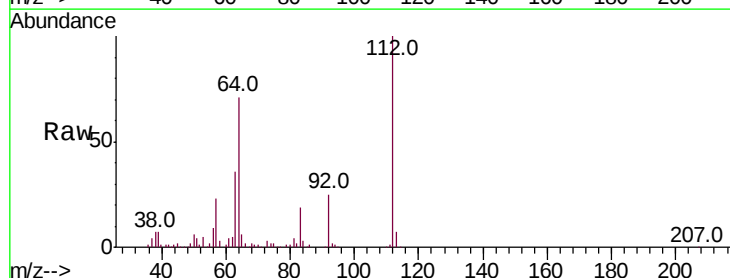
Tgt Ion:112 Resp: 176024

Ion Ratio Lower Upper

112 100

64 70.5 55.5 83.3

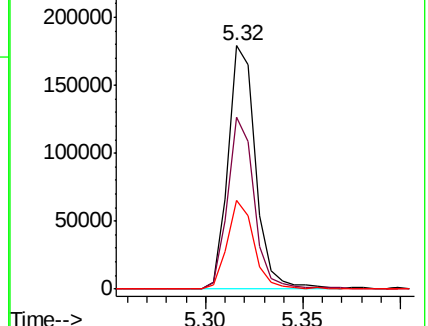
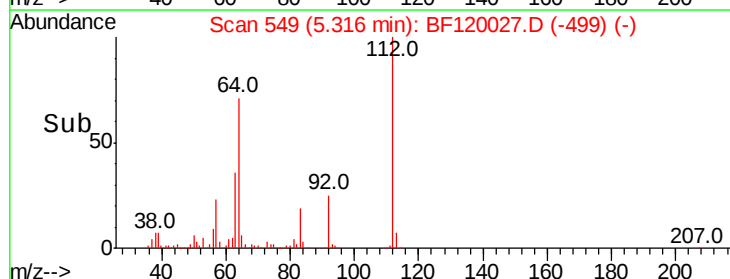
63 36.5 29.1 43.7

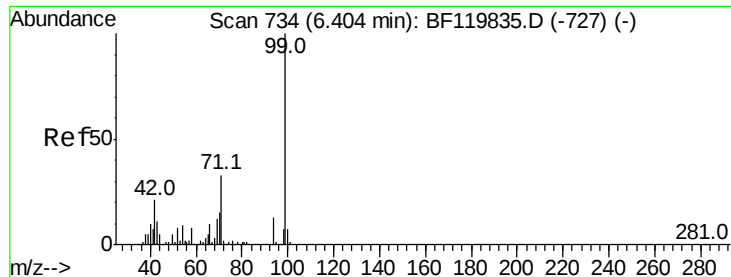


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 21.775 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Instrument :

BNA_F

ClientSampleId :

TP-34

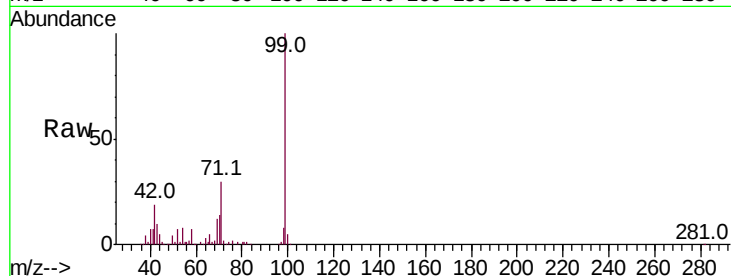
Tot Ion: 99 Resp: 236020

Ion Ratio Lower Upper

99 100

42 19.0 16.9 25.3

71 30.2 26.3 39.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

300000

200000

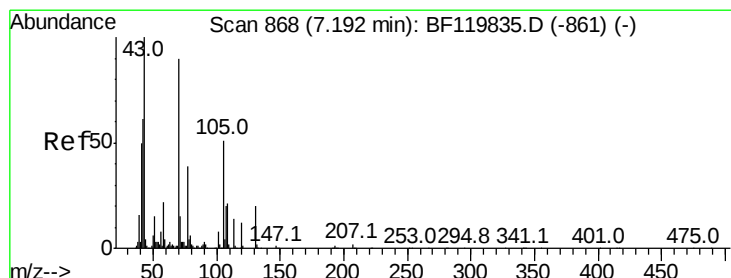
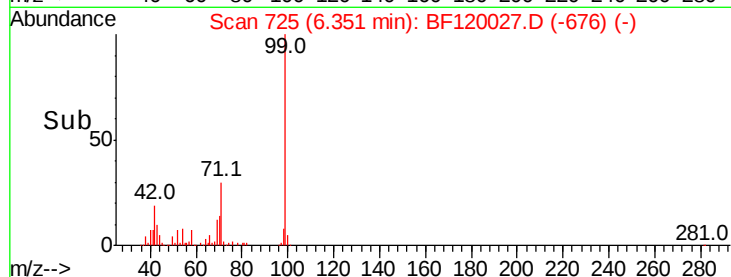
100000

0

6.35

6.30 6.40 6.50

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 2.777 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.13 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Tgt Ion: 70 Resp: 19358

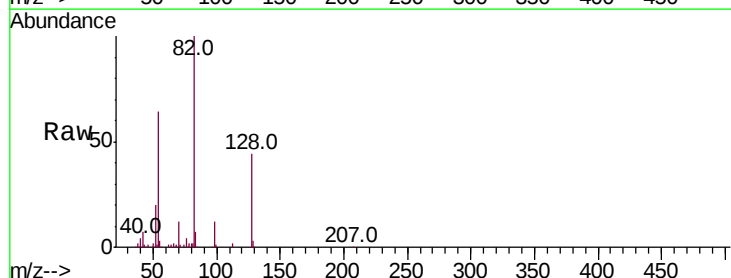
Ion Ratio Lower Upper

70 100

42 56.6 54.2 81.4

101 0.0 7.4 11.2#

130 2.7 17.8 26.6#



Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

30000

20000

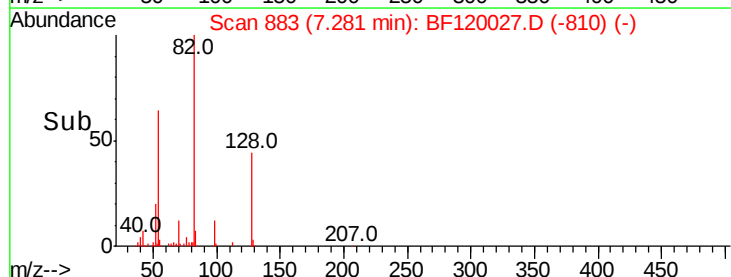
10000

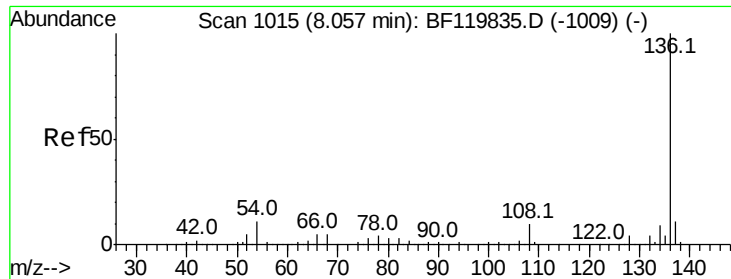
0

7.28

7.25 7.30

Time-->

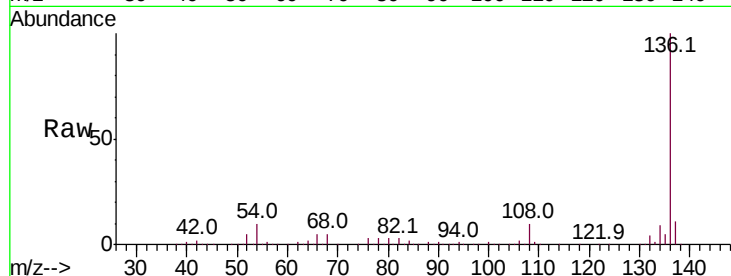




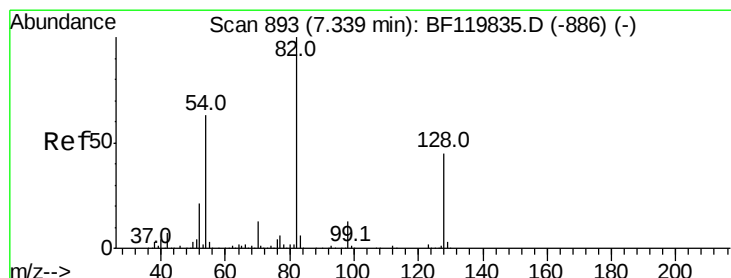
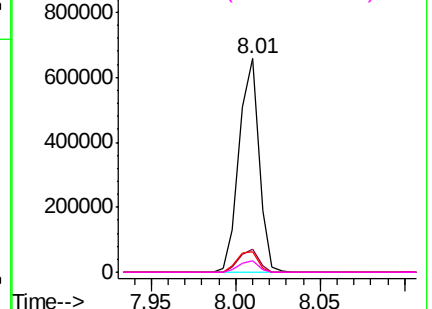
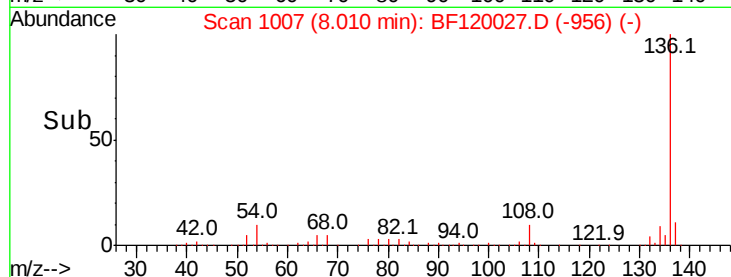
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Instrument :
BNA_F
ClientSampleId :
TP-34

Tot Ion:	136	Resp:	539622
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.7	13.1
54	9.7	8.5	12.7
68	5.3	3.9	5.9

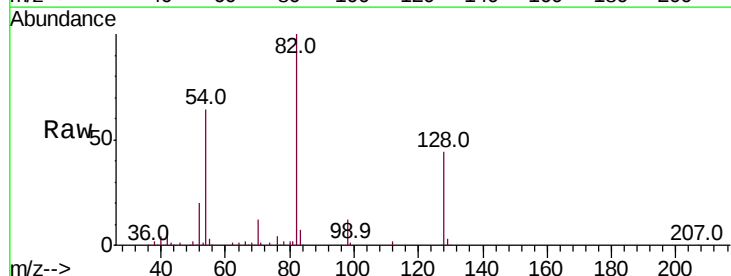


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

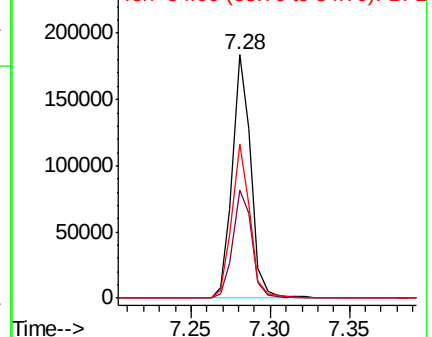
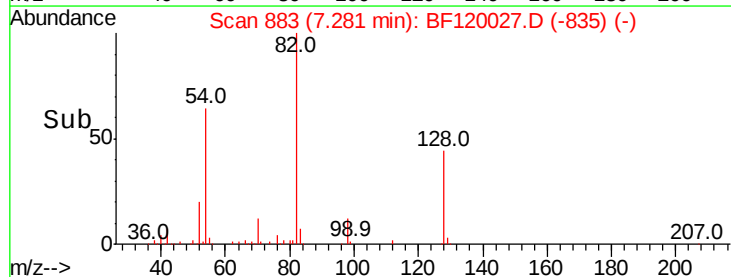


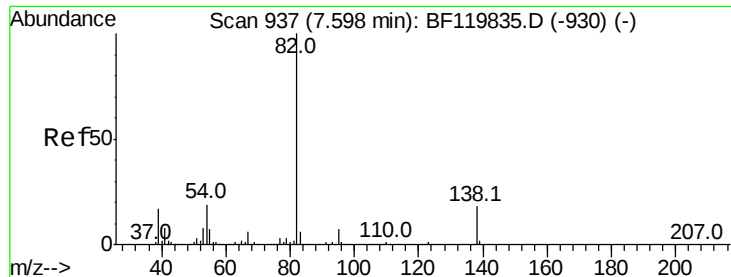
#23
Nitrobenzene-d5
Concen: 14.280 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion:	82	Resp:	148955
Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.2	54.4
54	63.5	50.4	75.6



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.250 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Instrument :

BNA_F

ClientSampled :

TP-34

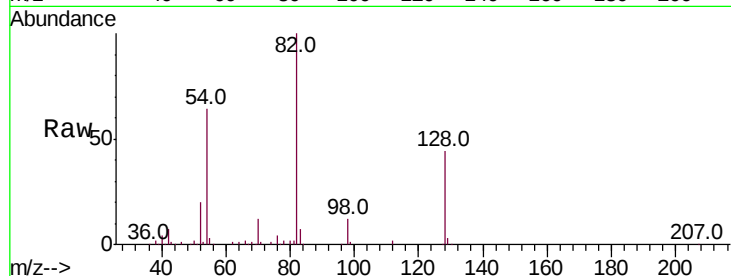
Tot Ion: 82 Resp: 145783

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

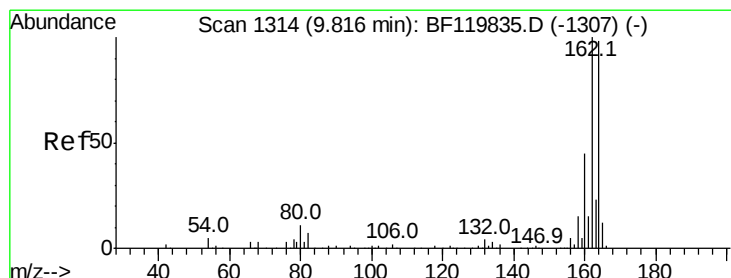
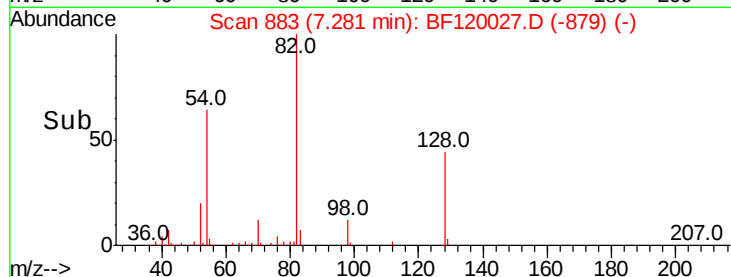
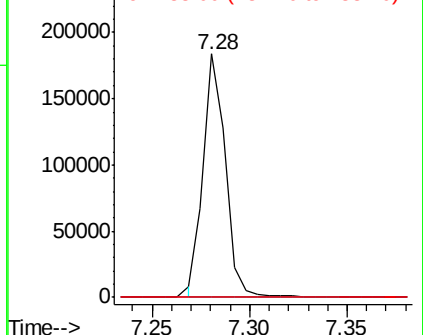
138 0.0 14.5 21.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

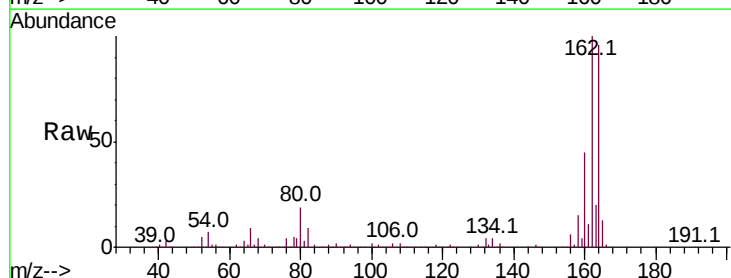
Tgt Ion:164 Resp: 256114

Ion Ratio Lower Upper

164 100

162 104.3 81.9 122.9

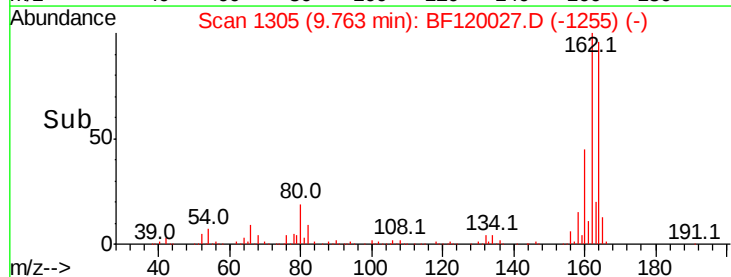
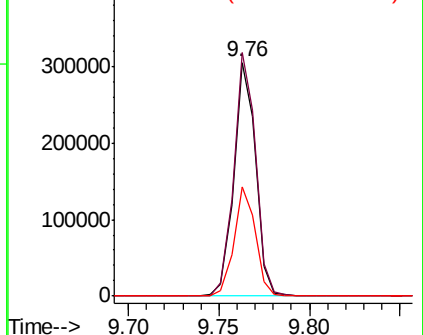
160 46.8 36.6 54.8

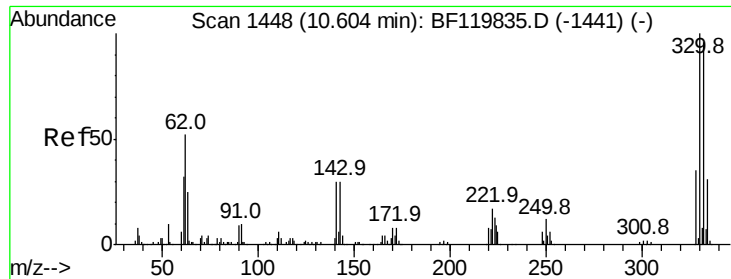


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

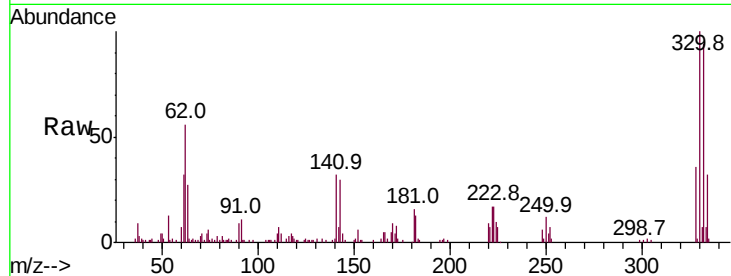




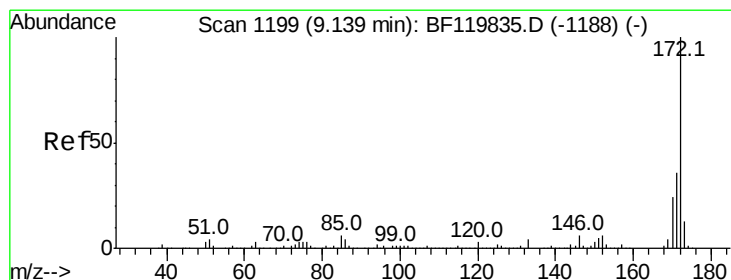
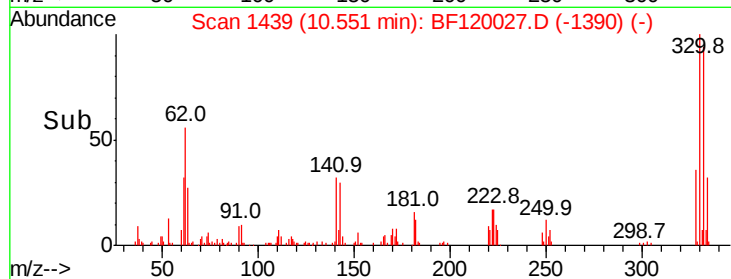
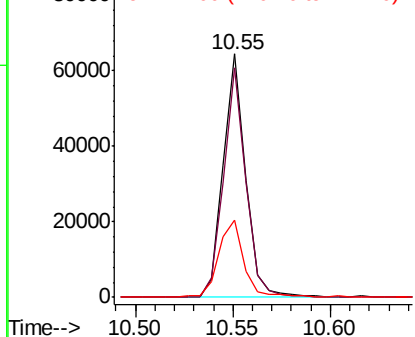
#42
 2,4,6-Tribromophenol
 Concen: 16.342 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

Instrument :
 BNA_F
 ClientSampleId :
 TP-34

Tot Ion:330 Resp: 51244
 Ion Ratio Lower Upper
 330 100
 332 93.9 76.8 115.2
 141 35.8 25.1 37.7

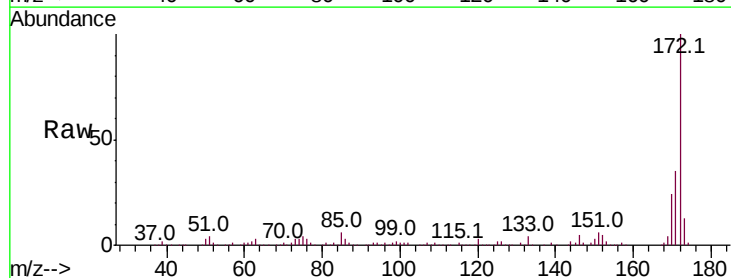


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

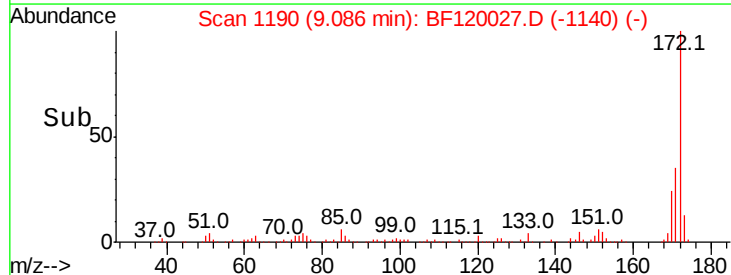
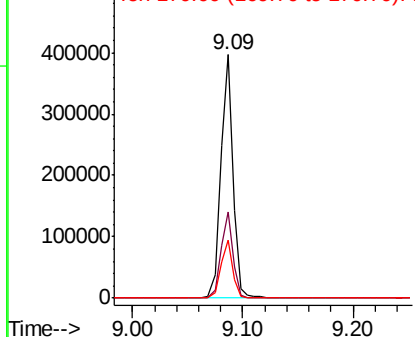


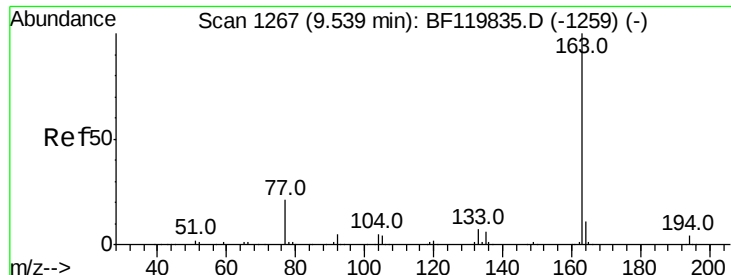
#45
 2-Fluorobiphenyl
 Concen: 16.901 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

Tgt Ion:172 Resp: 304882
 Ion Ratio Lower Upper
 172 100
 171 35.5 28.9 43.3
 170 23.8 19.4 29.2



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

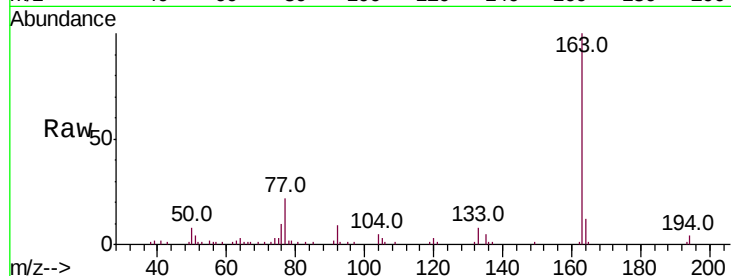




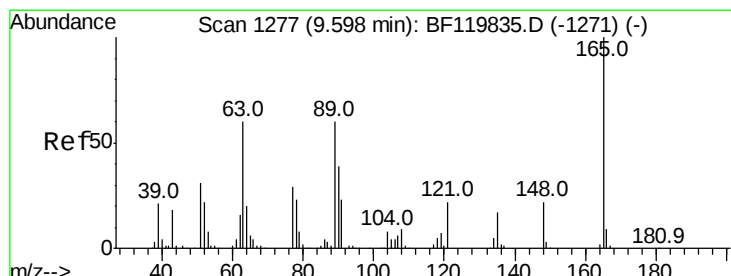
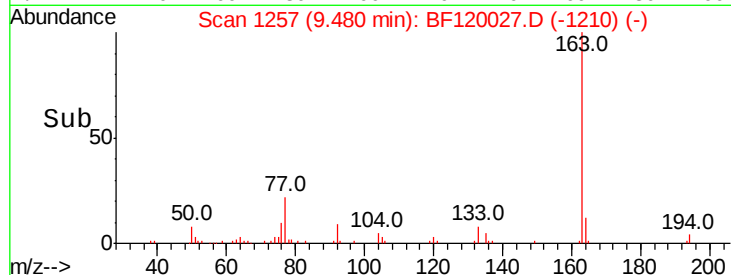
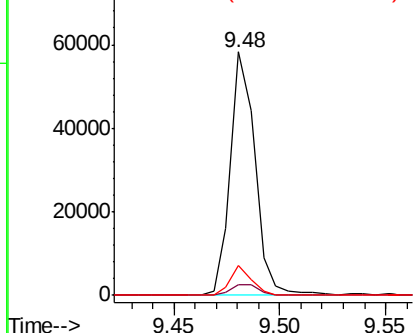
#50
Dimethylphthalate
Concen: 2.381 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Instrument :
BNA_F
ClientSampleId :
TP-34

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.0	4.4
164	12.1	8.4	12.6

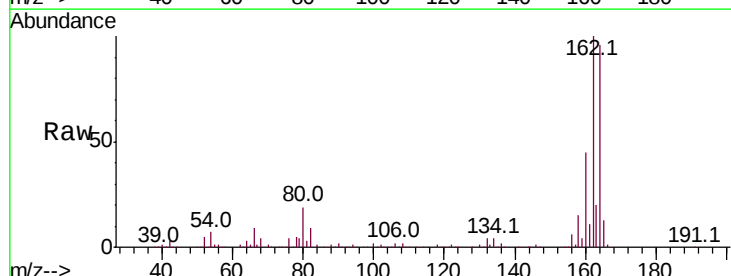


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

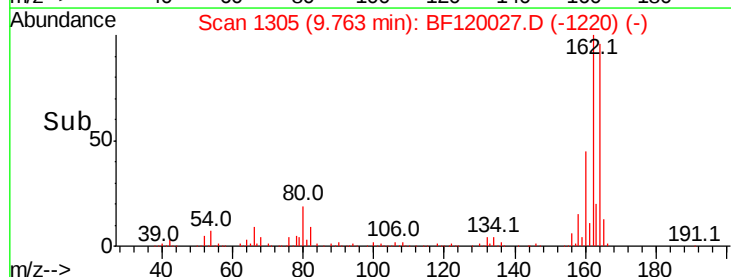
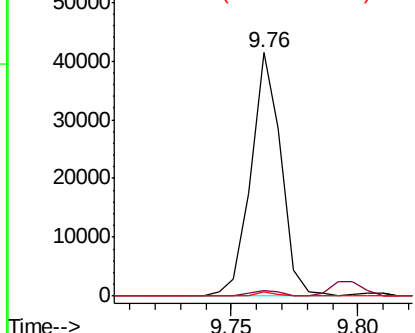


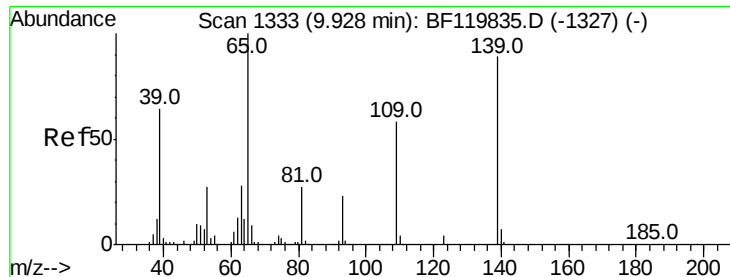
#51
2,6-Dinitrotoluene
Concen: 7.869 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.20 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.0	55.6	83.4#
89	1.6	47.9	71.9#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

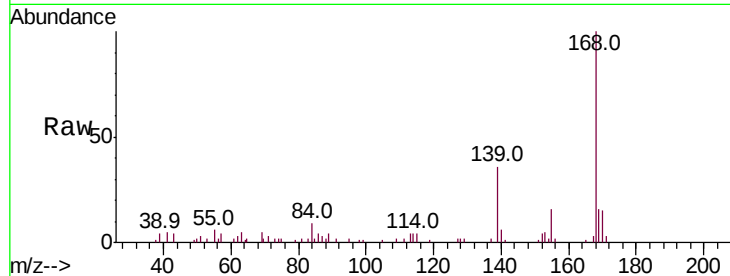




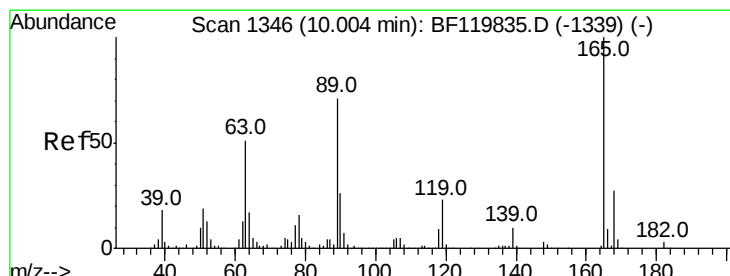
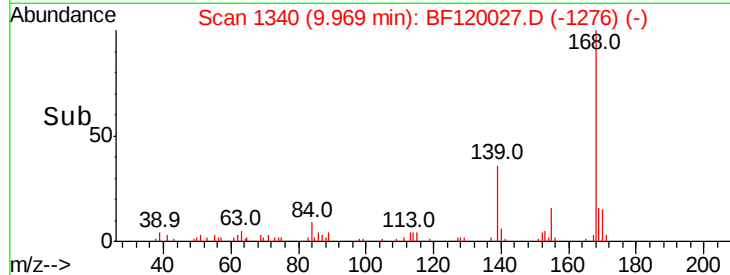
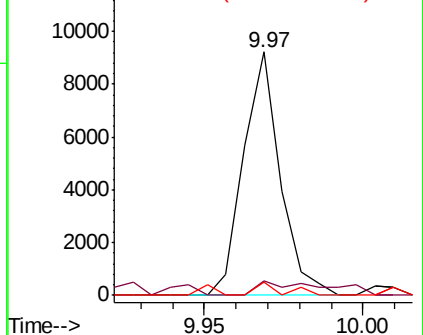
#56
4-Nitrophenol
Concen: 2.005 ng
RT: 9.97 min Scan# 1340
Delta R.T. 0.08 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Instrument :
BNA_F
ClientSampleId :
TP-34

Tot Ion:139 Resp: 7392
Ion Ratio Lower Upper
139 100
109 5.8 45.5 85.5#
65 5.4 92.3 132.3#

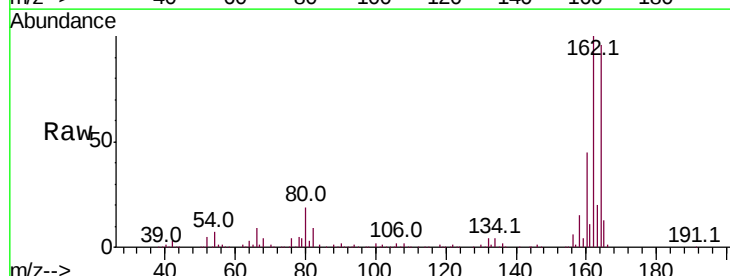


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

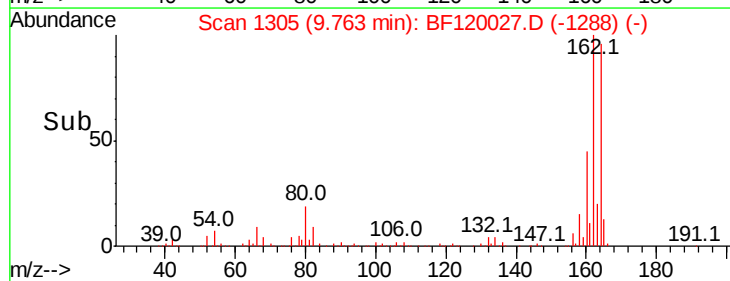
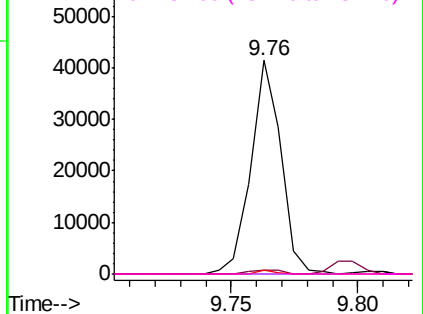


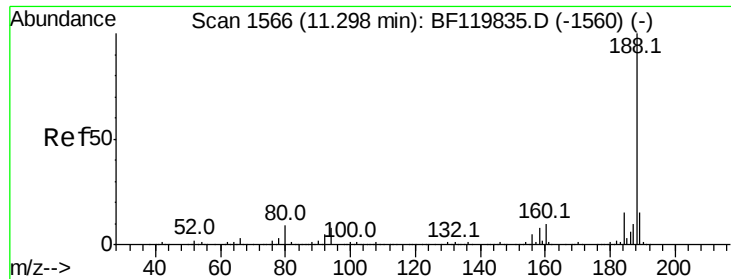
#57
2,4-Dinitrotoluene
Concen: 5.973 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.20 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion:165 Resp: 34137
Ion Ratio Lower Upper
165 100
63 2.0 40.8 61.2#
89 1.6 56.9 85.3#
182 0.0 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

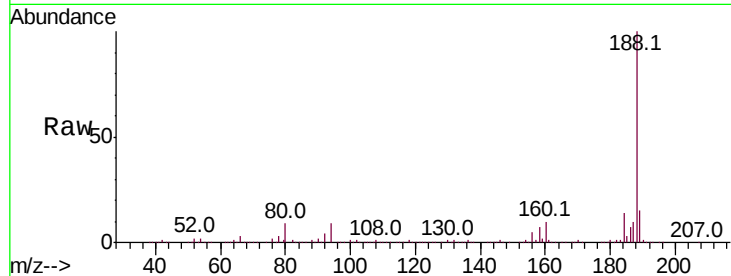




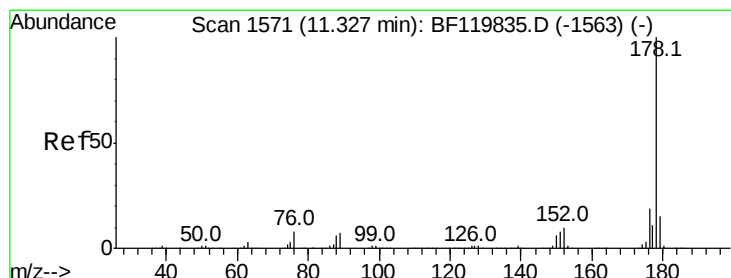
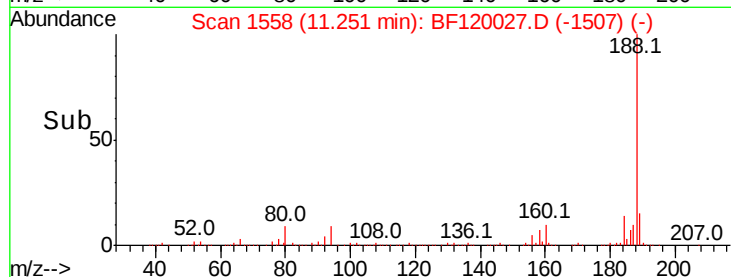
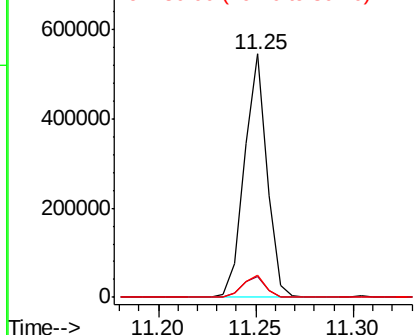
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Instrument :
BNA_F
ClientSampleId :
TP-34

Tot Ion:188 Resp: 435533
Ion Ratio Lower Upper
188 100
94 8.6 6.7 10.1
80 9.1 7.4 11.2

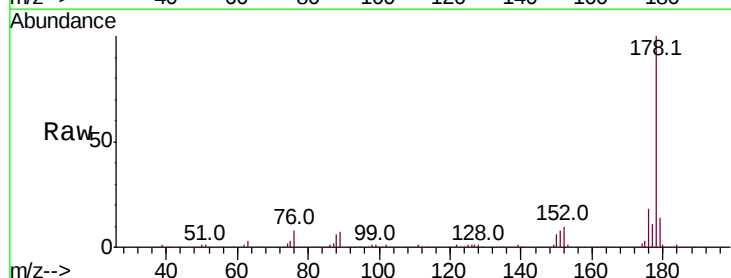


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

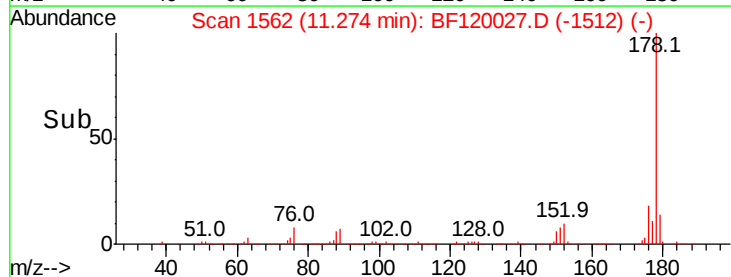
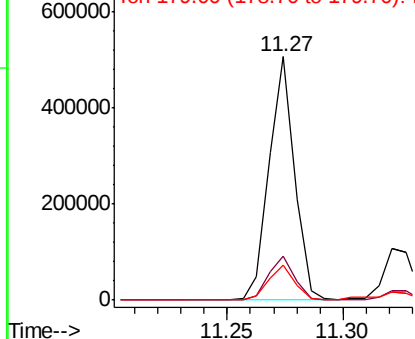


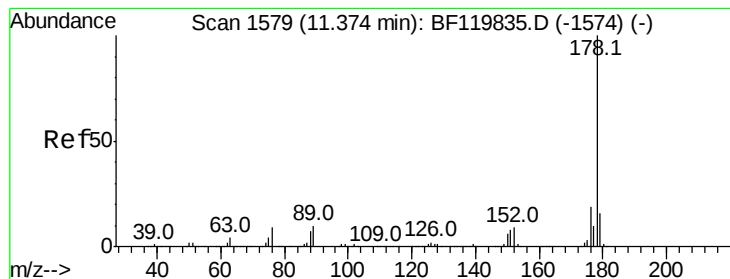
#71
Phenanthrene
Concen: 16.737 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion:178 Resp: 387945
Ion Ratio Lower Upper
178 100
176 18.1 15.1 22.7
179 14.4 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 3.885 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Instrument :

BNA_F

ClientSampleId :

TP-34

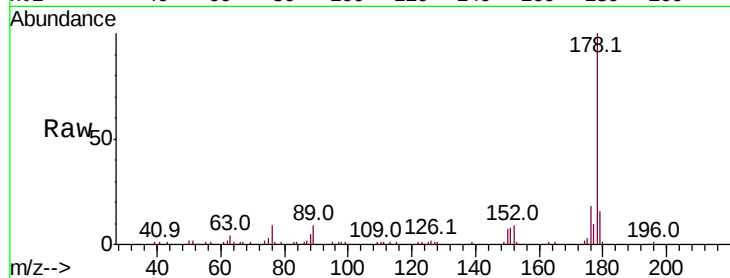
Tot Ion:178 Resp: 92003

Ion Ratio Lower Upper

178 100

176 17.9 15.4 23.2

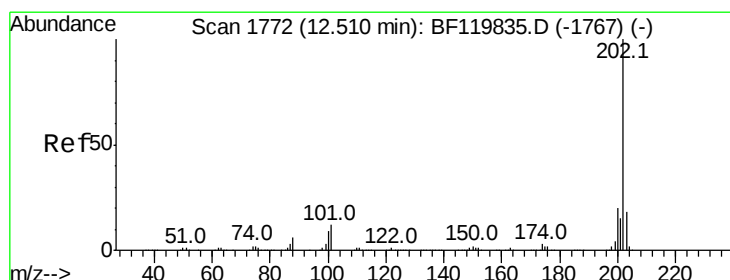
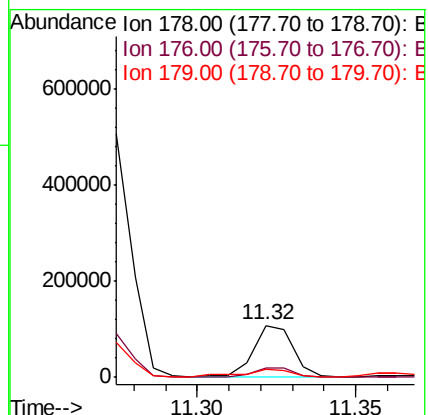
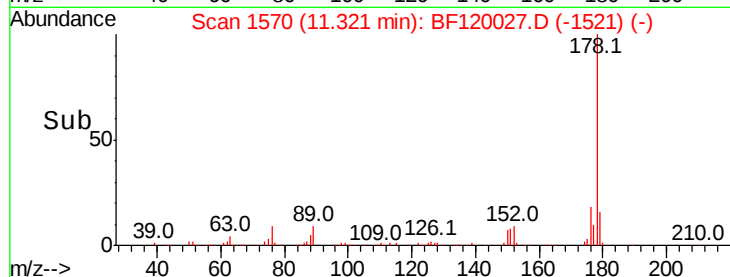
179 16.2 12.8 19.2



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: 21.161 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

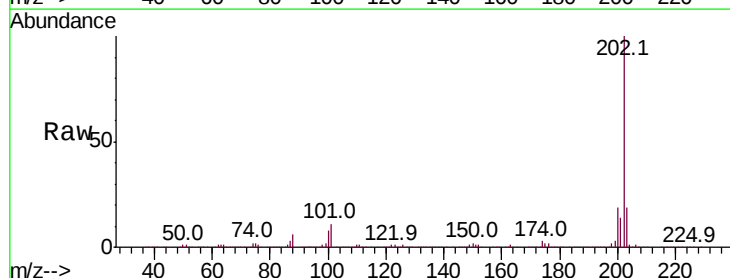
Tgt Ion:202 Resp: 529256

Ion Ratio Lower Upper

202 100

101 10.8 0.0 32.3

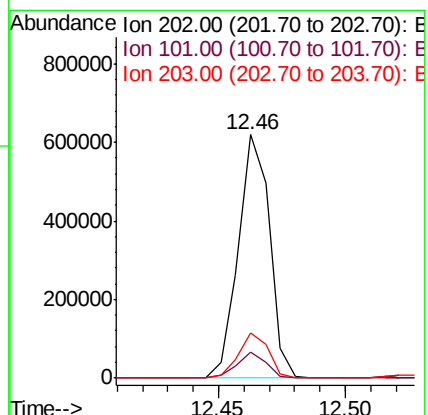
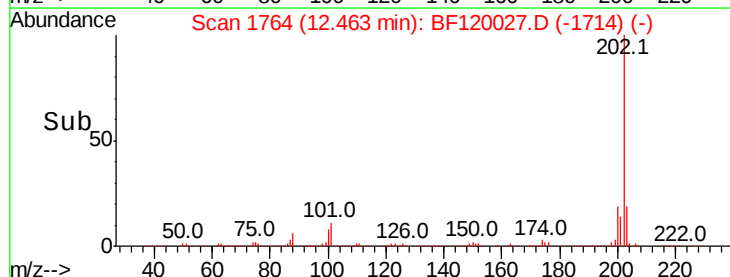
203 18.6 0.0 37.6

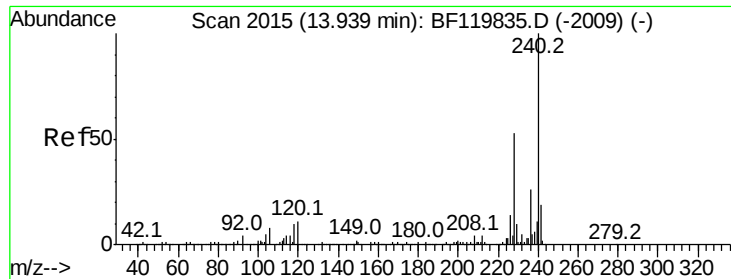


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

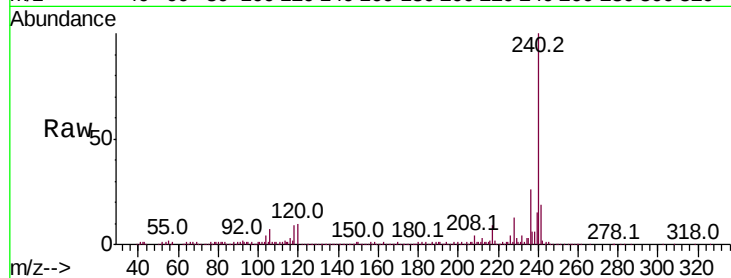




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

Instrument :
 BNA_F
 ClientSampleId :
 TP-34

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.0	13.6
236	26.0	20.7	31.1

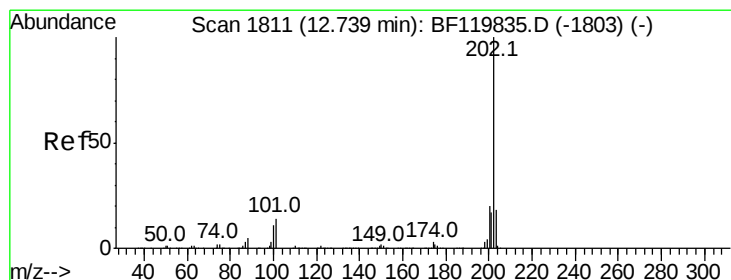
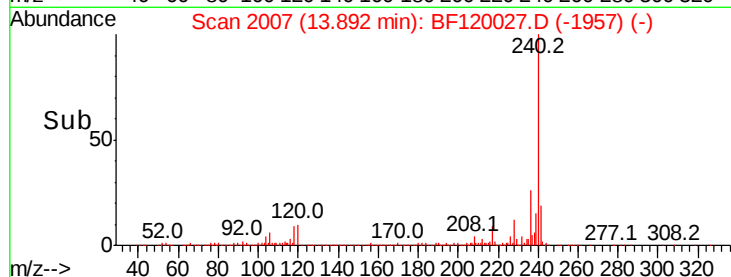
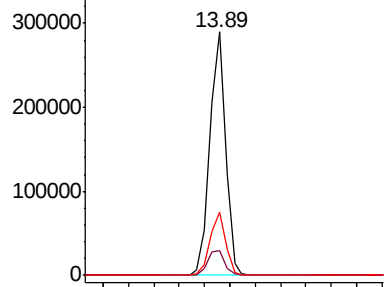


Abundance

Ion 240.00 (239.70 to 240.70): E

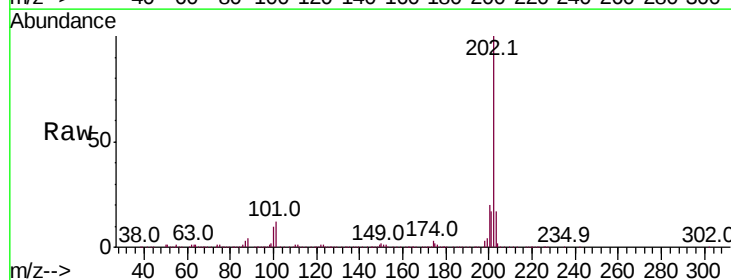
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
 Pyrene
 Concen: 23.071 ng
 RT: 12.69 min Scan# 1803
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.2	24.2
203	17.2	14.1	21.1

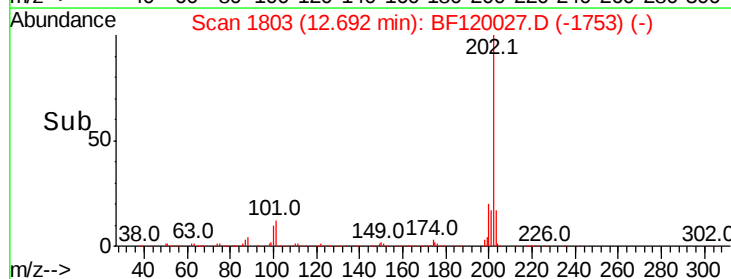
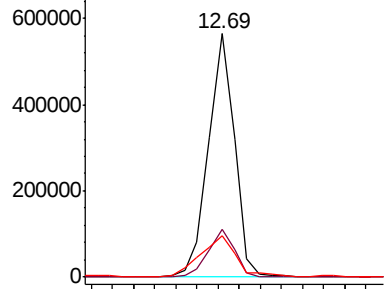


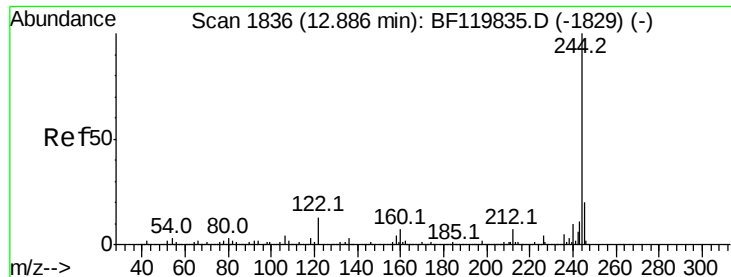
Abundance

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

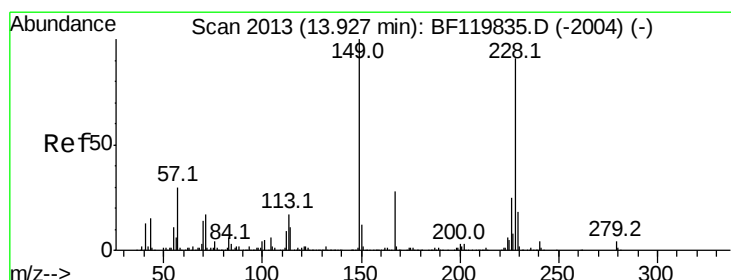
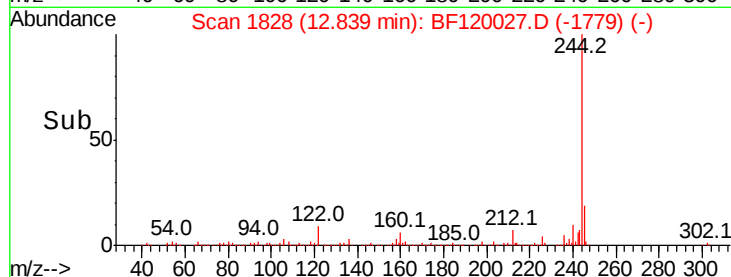
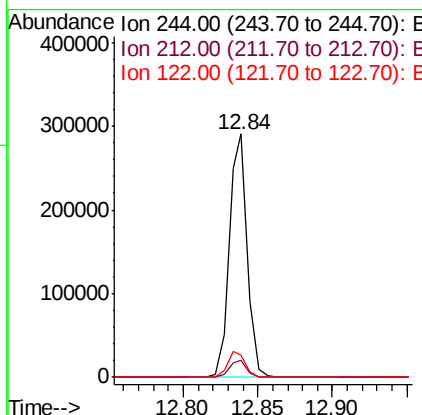
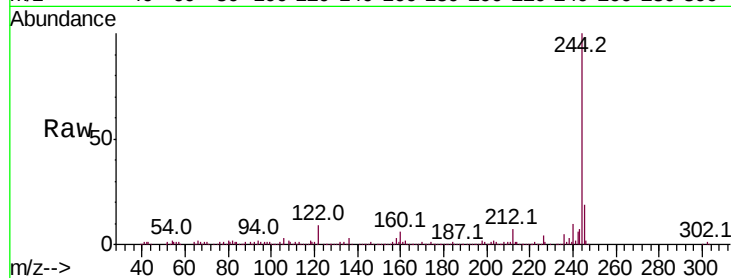




#79
 Terphenyl-d14
 Concen: 16.807 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

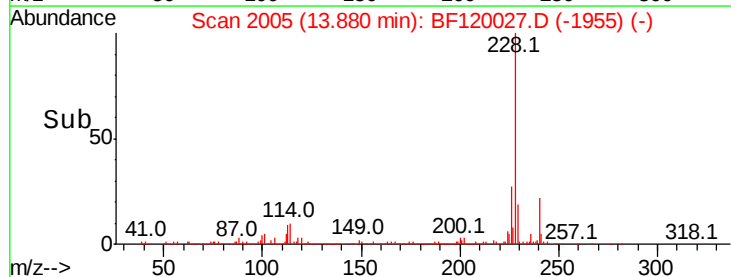
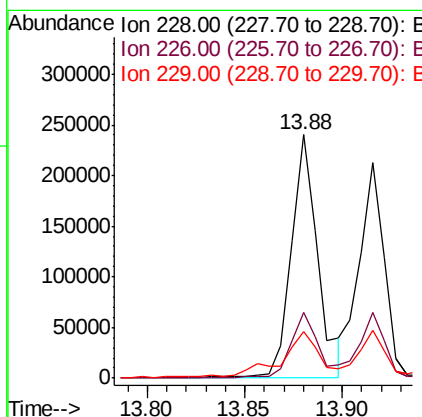
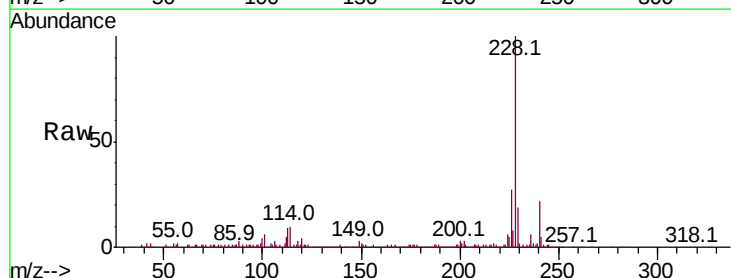
Instrument :
 BNA_F
 ClientSampleId :
 TP-34

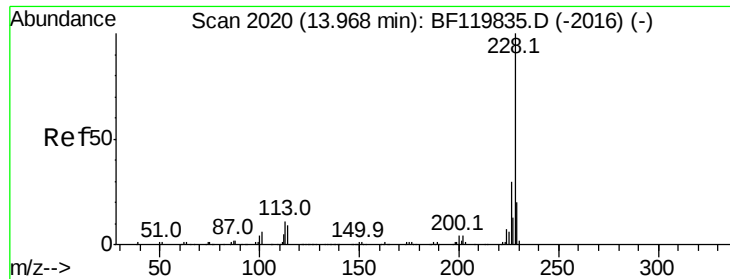
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	9.3	10.3	15.5#



#81
 Benzo(a)anthracene
 Concen: 13.894 ng
 RT: 13.88 min Scan# 2005
 Delta R.T. -0.01 min
 Lab File: BF120027.D
 Acq: 16 Apr 2020 11:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.9	32.9
229	19.3	15.9	23.9

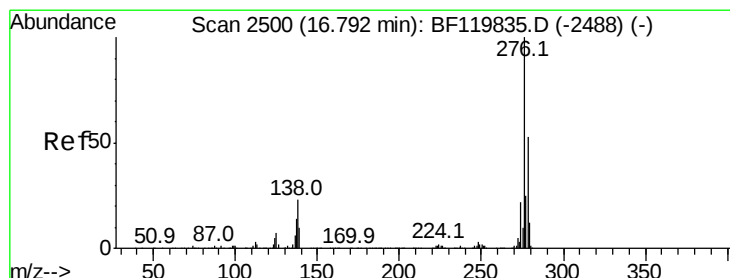
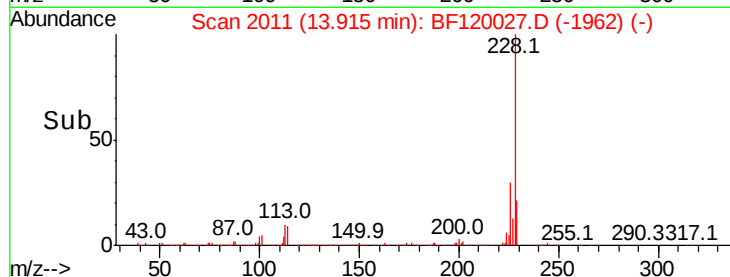
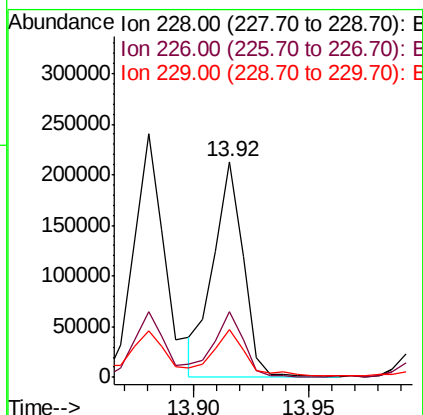
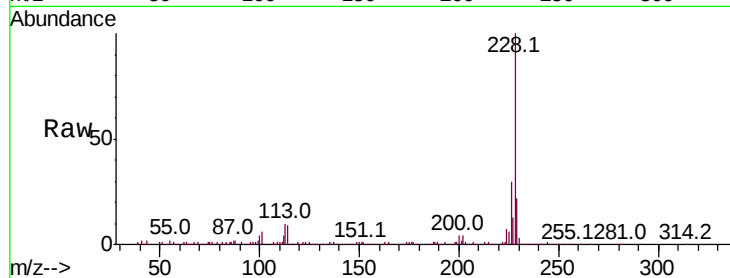




#83
Chrysene
Concen: 11.459 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

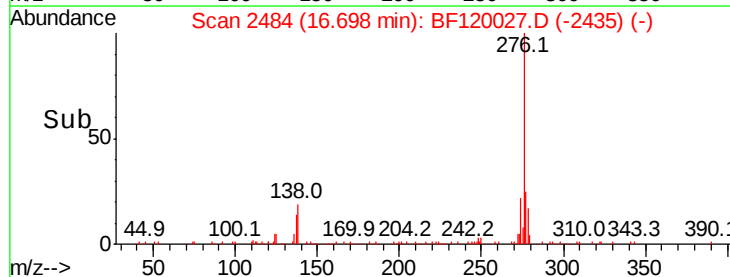
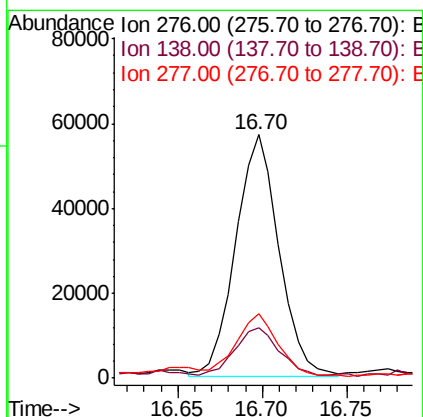
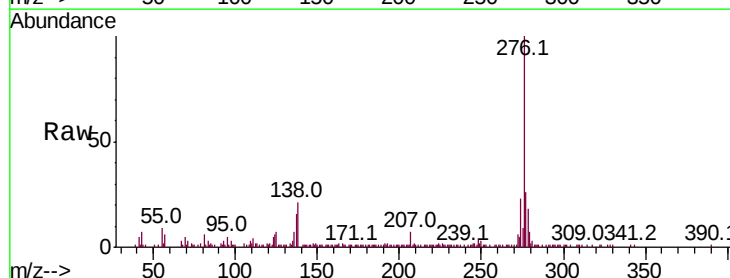
Instrument :
BNA_F
ClientSampleId :
TP-34

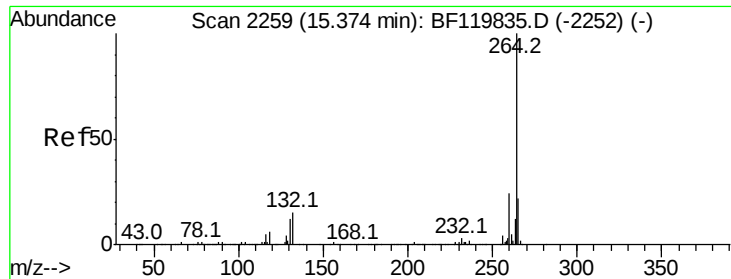
Tot Ion:228 Resp: 189363
Ion Ratio Lower Upper
228 100
226 30.2 24.2 36.2
229 22.0 15.9 23.9



#86
Indeno(1,2,3-cd)pyrene
Concen: 6.979 ng
RT: 16.70 min Scan# 2484
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion:276 Resp: 101661
Ion Ratio Lower Upper
276 100
138 20.2 18.0 27.0
277 24.2 20.1 30.1

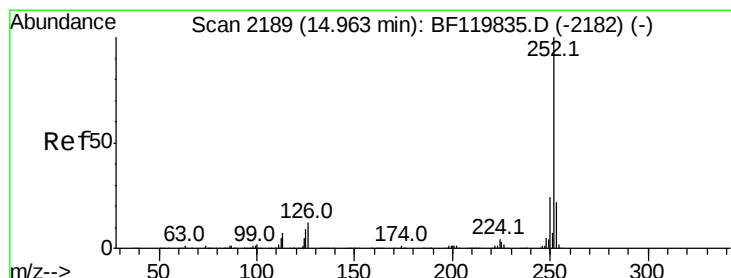
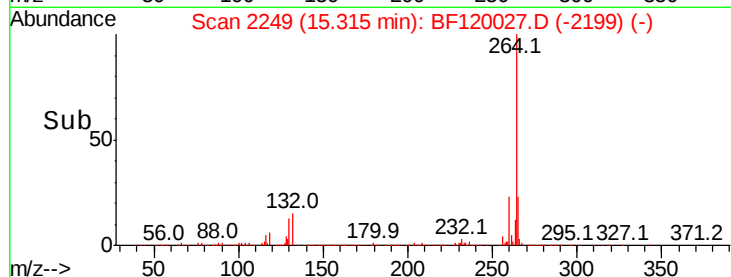
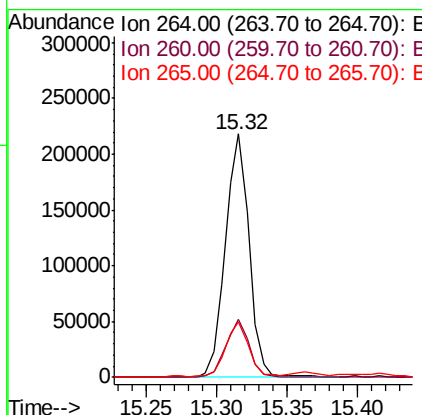
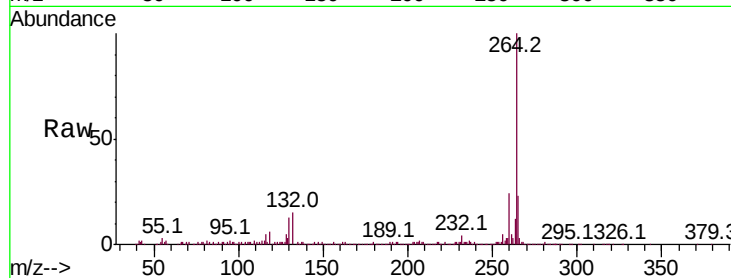




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

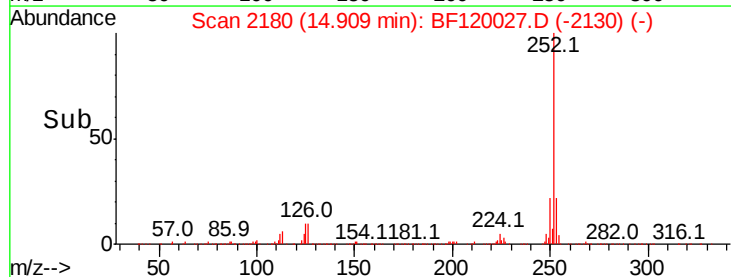
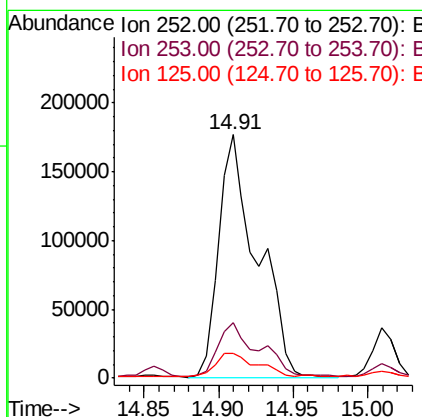
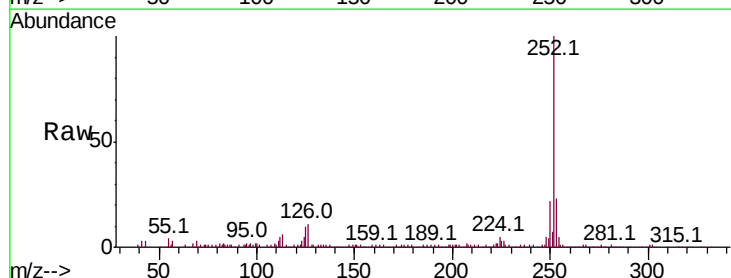
Instrument :
BNA_F
ClientSampled :
TP-34

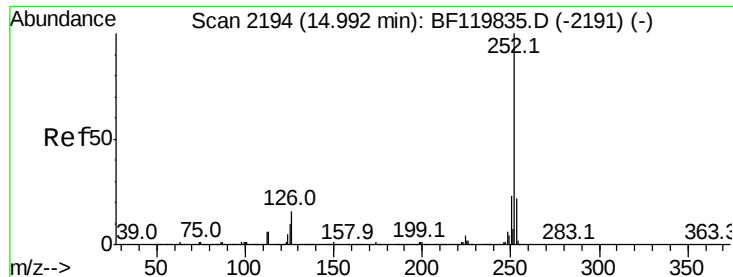
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.3	28.9
265	22.5	17.6	26.4



#88
Benzo(b)fluoranthene
Concen: 17.362 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.7	26.5
125	10.2	7.4	11.2

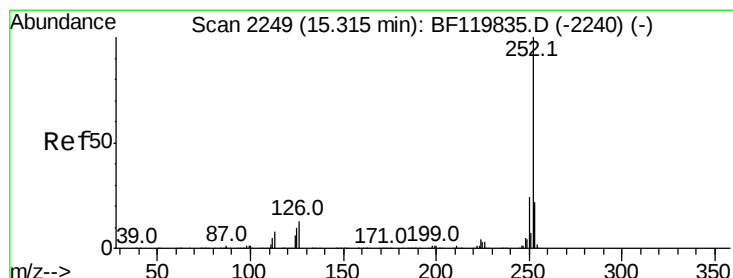
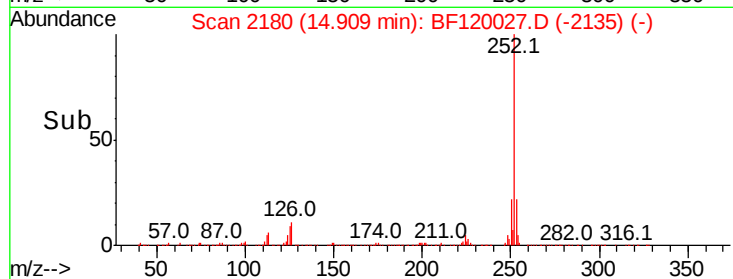
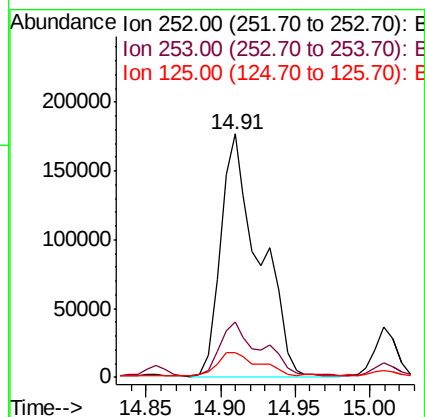
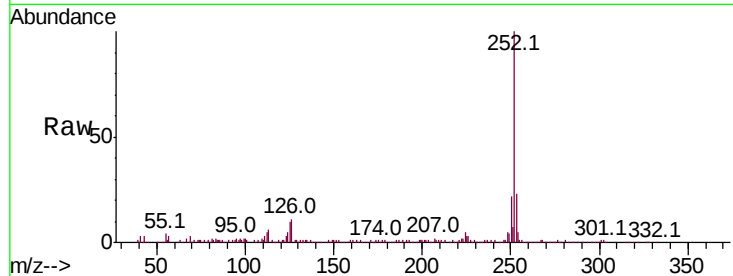




#89
Benzo(k)fluoranthene
Concen: 20.122 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.04 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

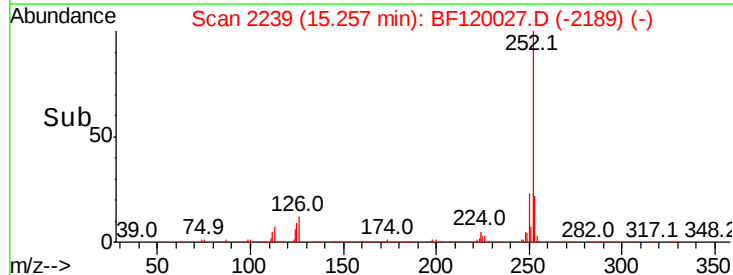
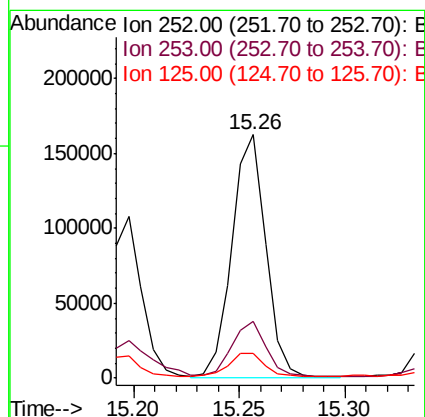
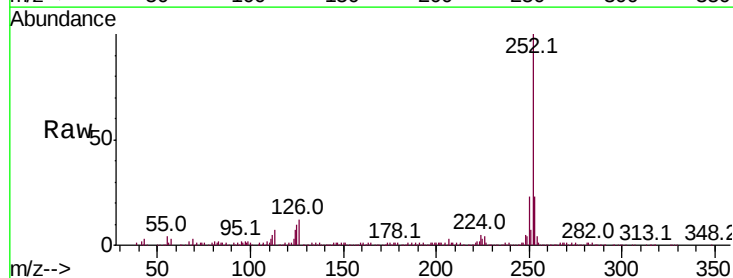
Instrument :
BNA_F
ClientSampleId :
TP-34

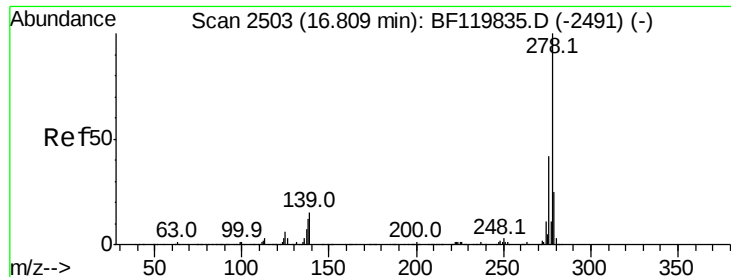
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	10.2	7.7	11.5



#90
Benzo(a)pyrene
Concen: 11.649 ng
RT: 15.26 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BF120027.D
Acq: 16 Apr 2020 11:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.2
125	10.1	8.3	12.5





#91

Dibenzo(a,h)anthracene

Concen: 2.064 ng

RT: 16.71 min Scan# 2486

Delta R.T. -0.02 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

Instrument :

BNA_F

ClientSampleId :

TP-34

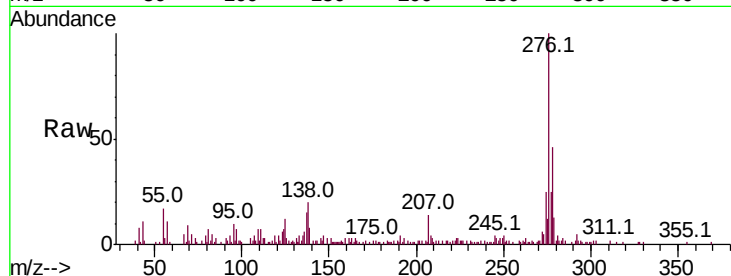
Tot Ion:278 Resp: 28010

Ion Ratio Lower Upper

278 100

139 16.4 11.6 17.4

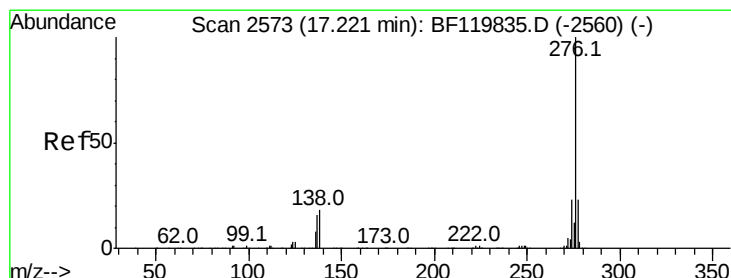
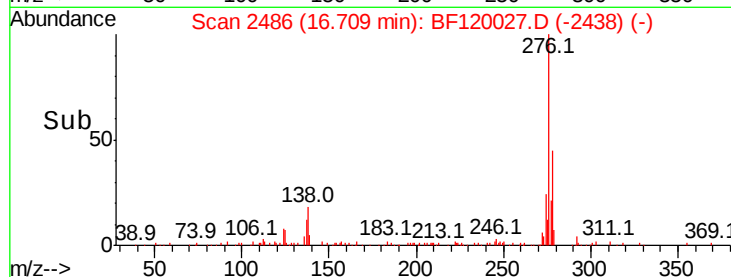
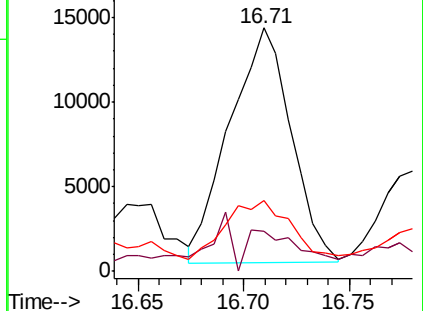
279 29.0 19.7 29.5



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



#92

Benzo(g,h,i)perylene

Concen: 7.211 ng

RT: 17.12 min Scan# 2555

Delta R.T. -0.02 min

Lab File: BF120027.D

Acq: 16 Apr 2020 11:13

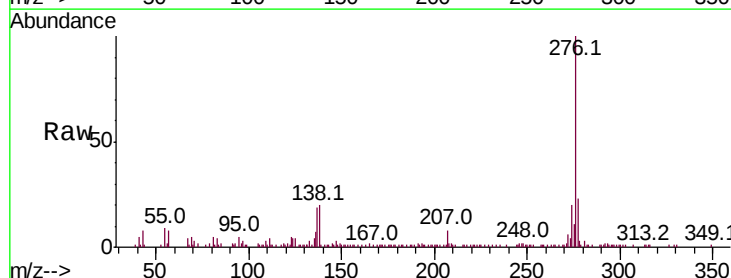
Tgt Ion:276 Resp: 96621

Ion Ratio Lower Upper

276 100

277 22.9 18.5 27.7

138 20.3 14.6 22.0



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

