

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117616.D
 Acq On : 30 Oct 2019 11:32
 Operator : JU
 Sample : K5503-07RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 31 01:22:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	38598	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	152286	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	70916	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	103109	20.00	ng	0.00
76) Chrysene-d12	13.89	240	73139	20.00	ng	0.00
87) Perylene-d12	15.33	264	94511	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	152599	58.82	ng	0.00
7) Phenol-d6	6.38	99	217237	62.34	ng	0.00
23) Nitrobenzene-d5	7.29	82	126805	41.11	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	33958	55.34	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	183734	36.51	ng	-0.01
79) Terphenyl-d14	12.83	244	114563	25.55	ng	0.00

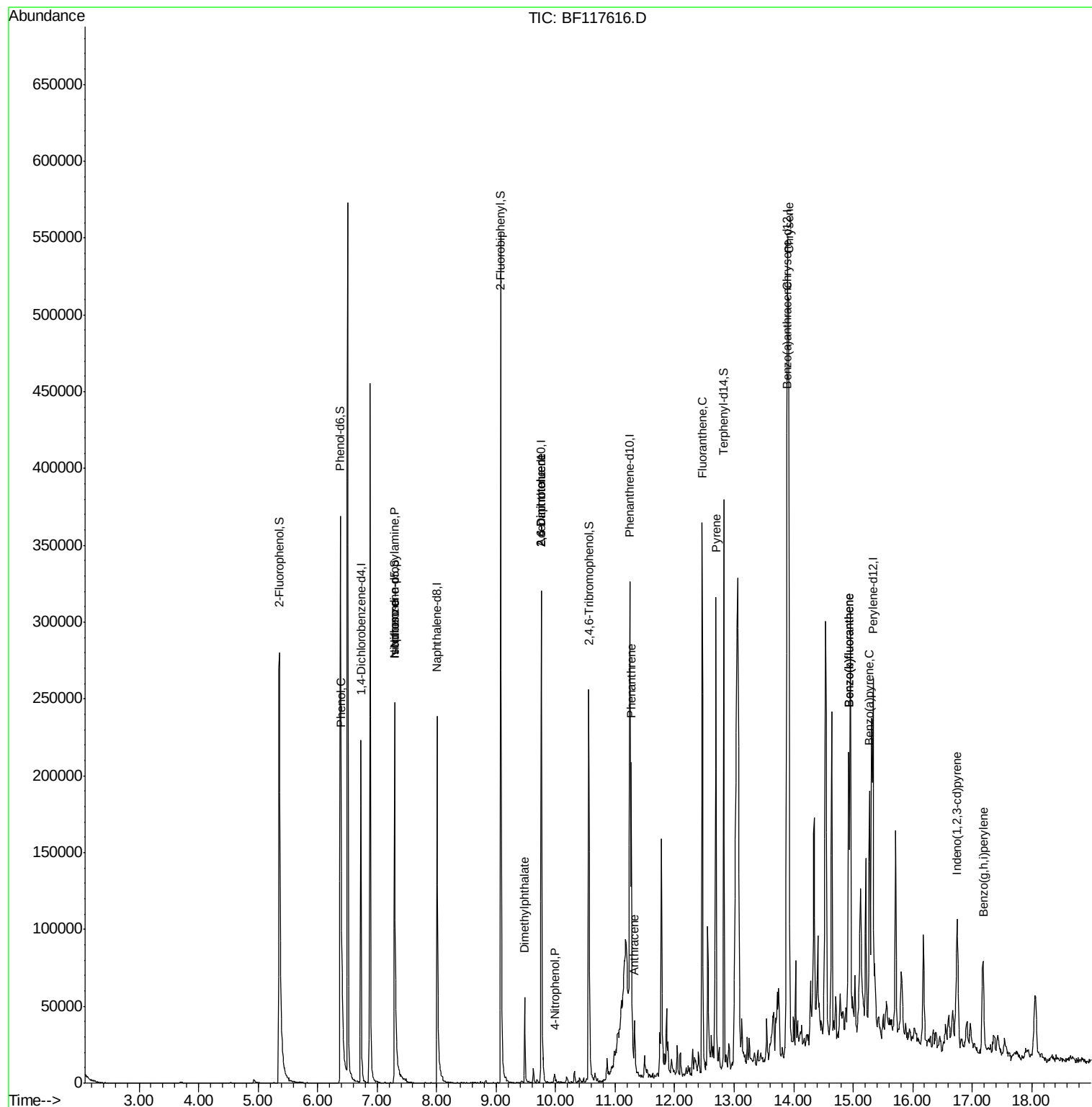
Target Compounds				Qvalue		
9) Benzaldehyde	6.50	77	3926	Below Cal	#	80
10) Phenol	6.40	94	9430	2.651 ng		86
19) n-Nitroso-di-n-propylamine	7.29	70	17693	8.314 ng	#	82
25) Isophorone	7.29	82	126803	23.762 ng	#	65
50) Dimethylphthalate	9.48	163	26737	5.289 ng	#	98
51) 2,6-Dinitrotoluene	9.76	165	9220	8.740 ng	#	22
56) 4-Nitrophenol	9.98	139	704	5.263 ng	#	6
57) 2,4-Dinitrotoluene	9.76	165	9220	6.573 ng	#	12
71) Phenanthrene	11.27	178	73992	12.358 ng		99
72) Anthracene	11.33	178	18405	2.996 ng		96
75) Fluoranthene	12.46	202	138588	23.123 ng		99
77) Benzidine	12.83	184	1760	Below Cal	#	79
78) Pyrene	12.69	202	124453	19.810 ng		98
81) Benzo(a)anthracene	13.88	228	64377	13.049 ng		98
83) Chrysene	13.92	228	59932	12.395 ng		98
86) Indeno(1,2,3-cd)pyrene	16.75	276	51399	14.238 ng		98
88) Benzo(b)fluoranthene	14.93	252	121990	21.858 ng		96
89) Benzo(k)fluoranthene	14.93	252	121990	21.326 ng	#	95
90) Benzo(a)pyrene	15.27	252	70195	13.834 ng		95
92) Benzo(a,h,i)perylene	17.18	276	51751	12.466 ng		97

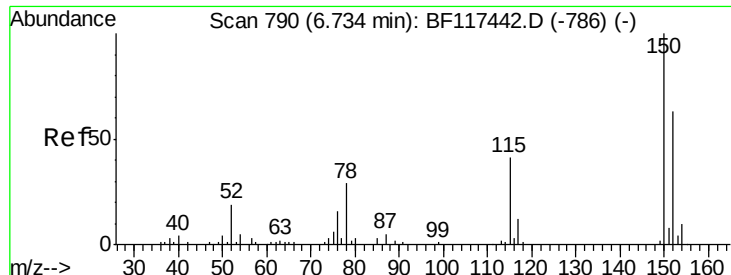
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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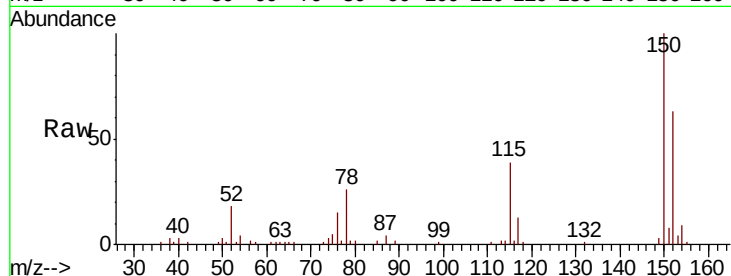


#1

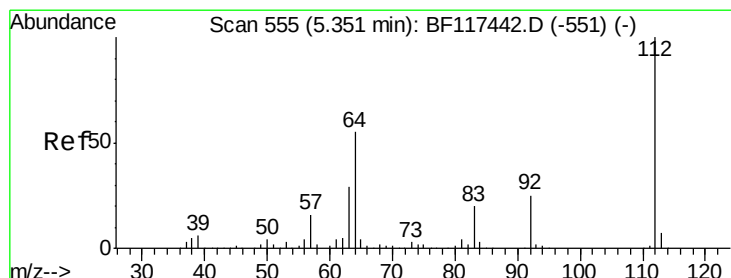
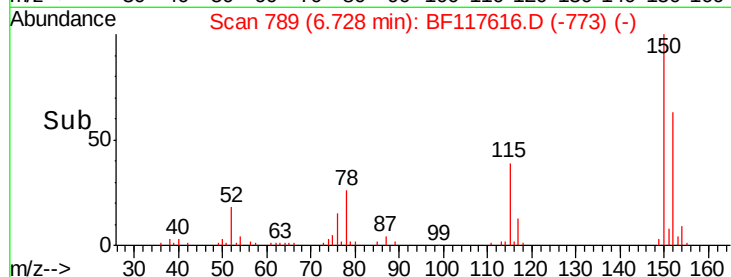
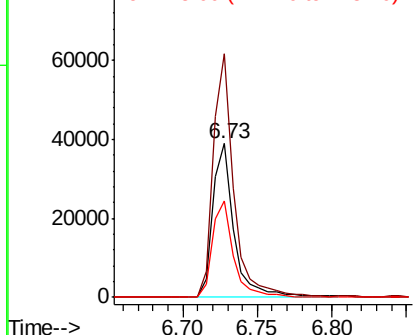
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 38598
Ion Ratio Lower Upper
152 100
150 158.7 126.8 190.2
115 62.5 51.6 77.4



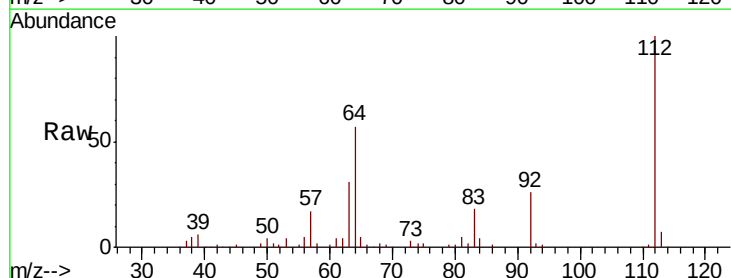
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



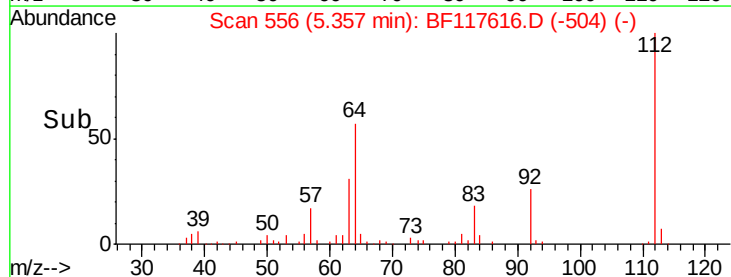
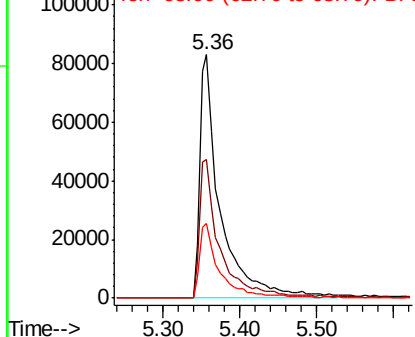
#5

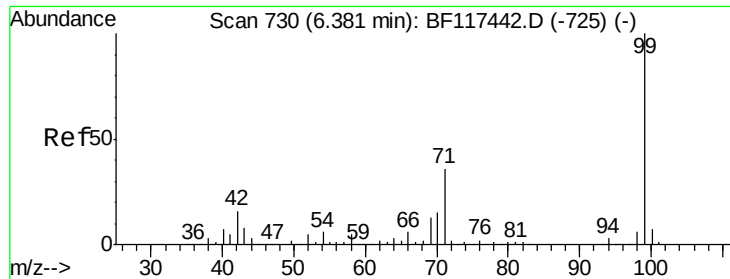
2-Fluorophenol
Concen: 58.817 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion:112 Resp: 152599
Ion Ratio Lower Upper
112 100
64 56.7 44.1 66.1
63 30.7 23.4 35.2



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: 62.341 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

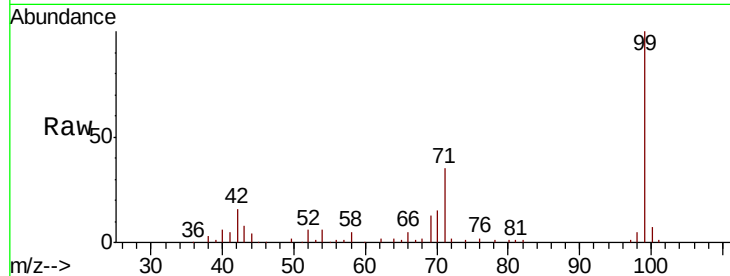
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 217237

Ion	Ratio	Lower	Upper
99	100		
42	15.6	12.8	19.2
71	35.1	28.6	43.0

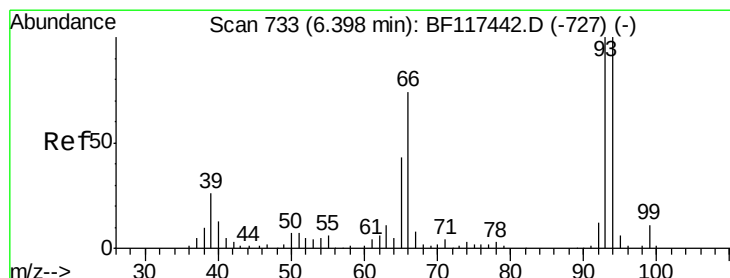
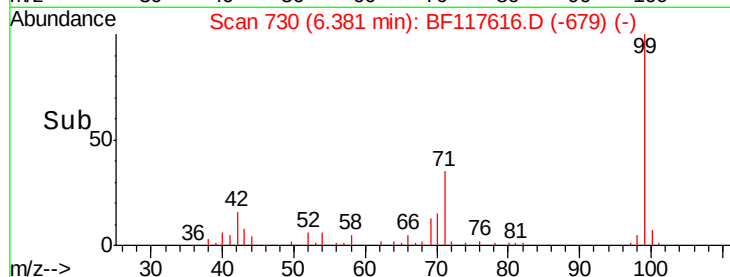
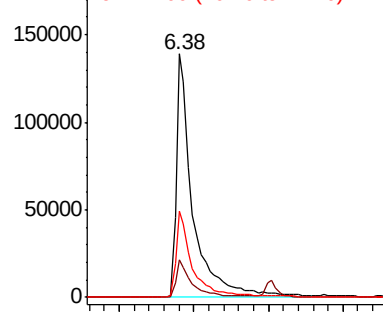


Abundance

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



#10

Phenol

Concen: 2.651 ng

RT: 6.40 min Scan# 733

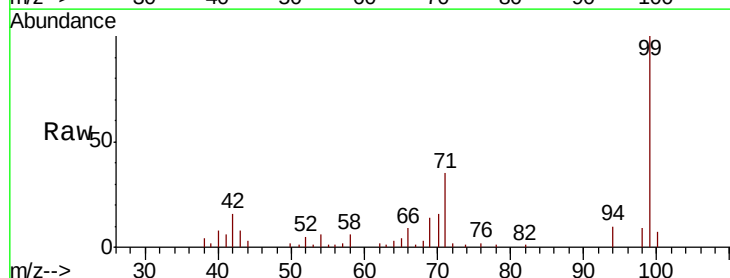
Delta R.T. -0.00 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

Tgt Ion: 94 Resp: 9430

Ion	Ratio	Lower	Upper
94	100		
65	43.3	23.4	63.4
66	93.0	54.7	94.7

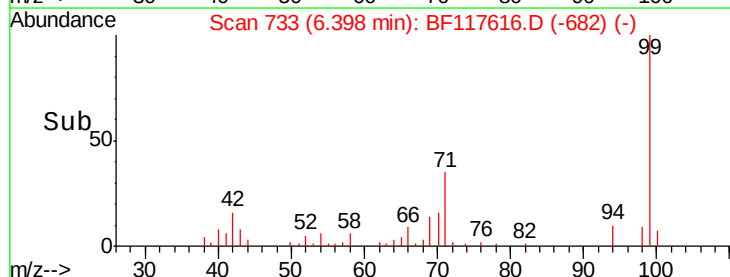
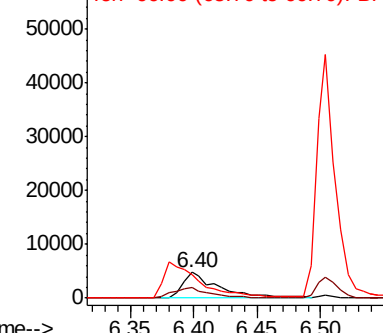


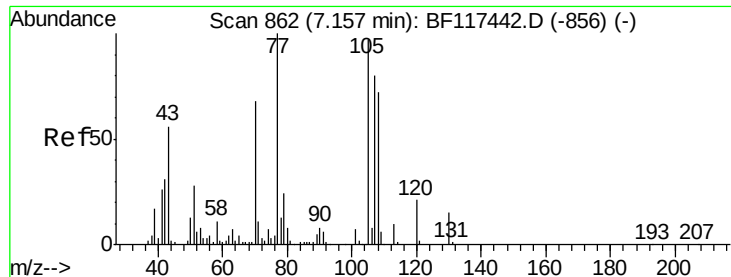
Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

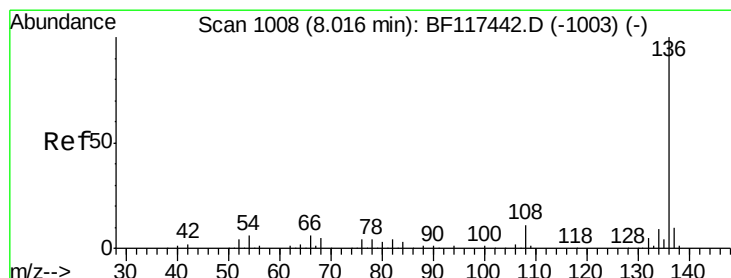
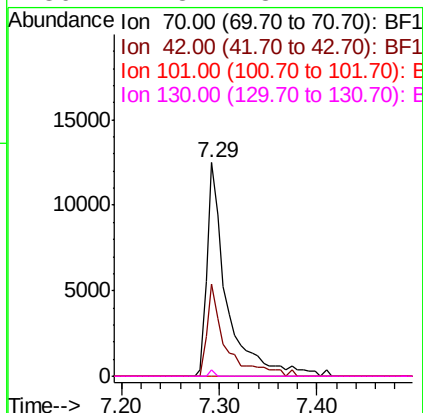
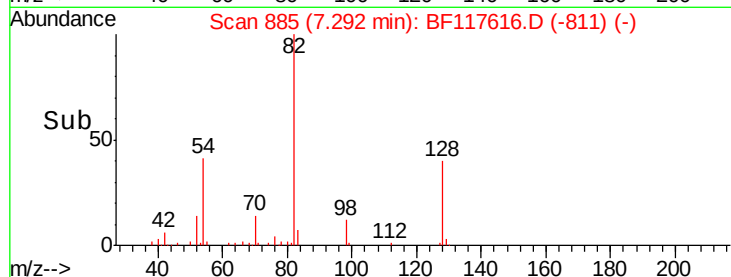
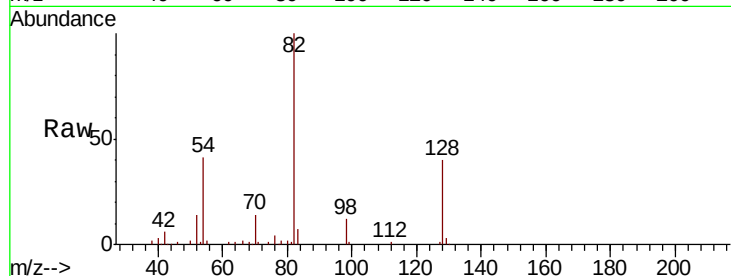




#19
n-Nitroso-di-n-propylamine
Concen: 8.314 ng
RT: 7.29 min Scan# 885
Delta R.T. 0.14 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

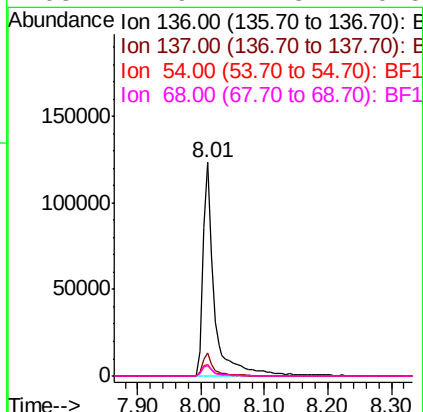
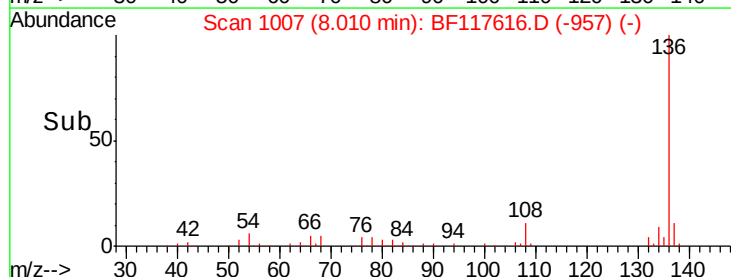
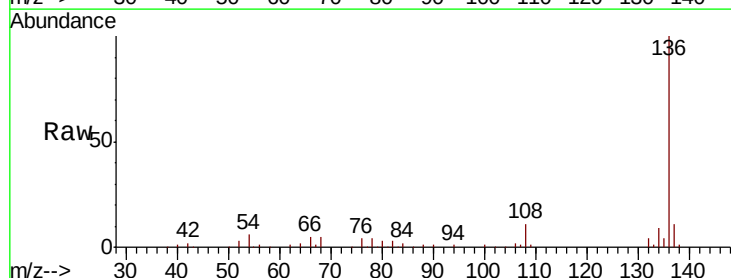
Instrument :
BNA_F
ClientSampleId :

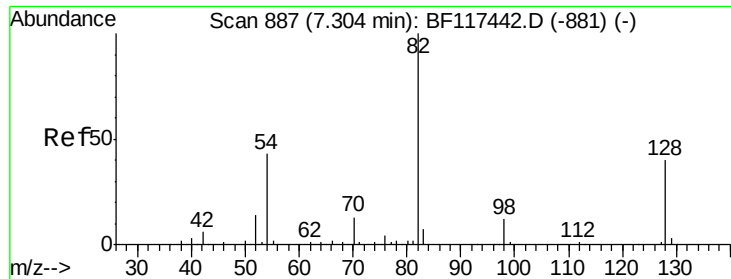
Tot Ion: 70 Resp: 17693
Ion Ratio Lower Upper
70 100
42 43.1 36.7 55.1
101 0.0 8.3 12.5#
130 2.8 18.1 27.1#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion: 136 Resp: 152286
Ion Ratio Lower Upper
136 100
137 10.6 8.2 12.4
54 5.7 4.5 6.7
68 4.9 4.3 6.5

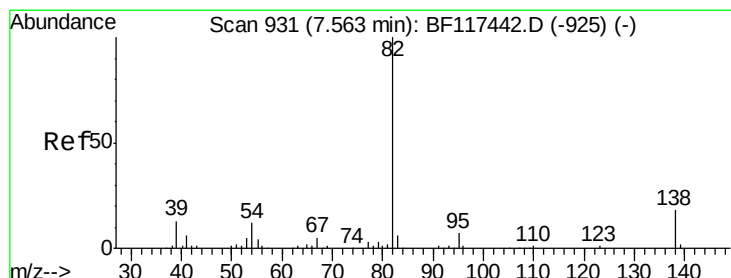
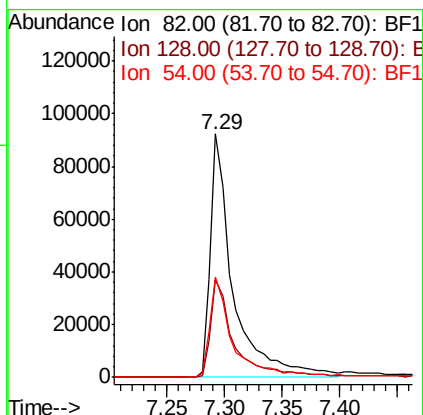
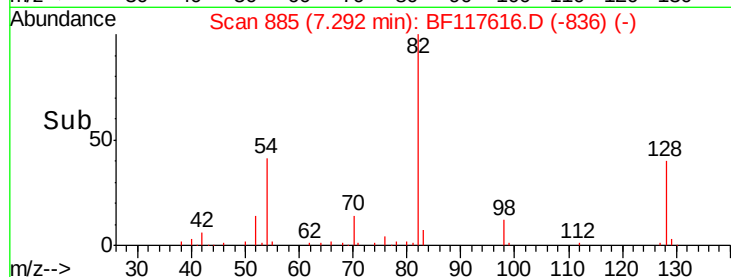
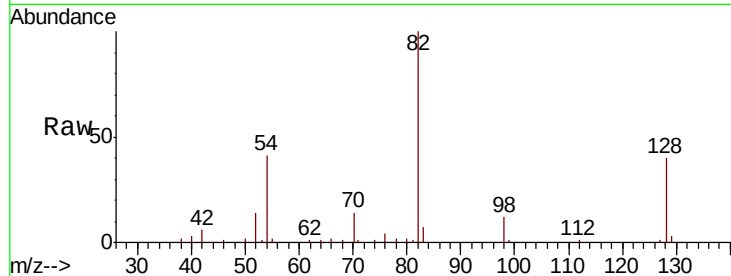




#23
Nitrobenzene-d5
Concen: 41.107 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

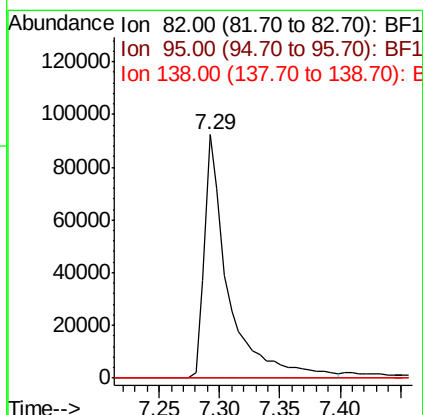
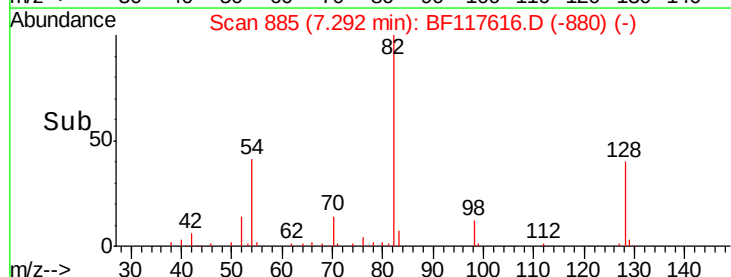
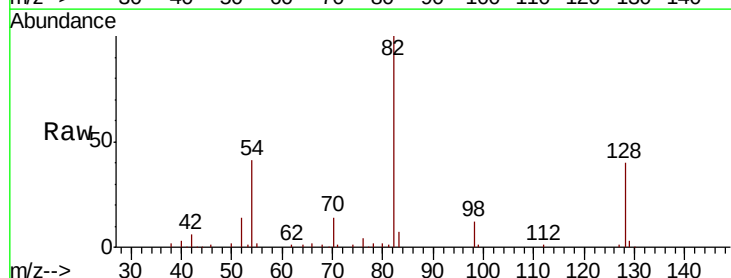
Instrument :
BNA_F
ClientSampleId :

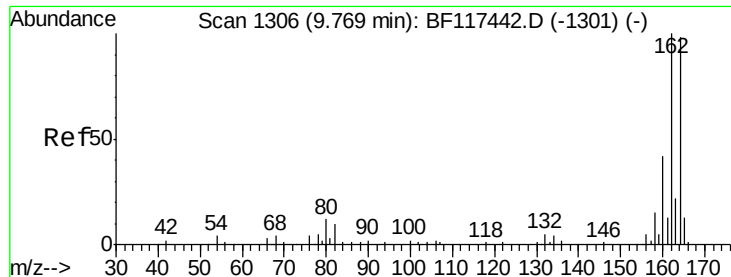
Tot Ion: 82 Resp: 126805
Ion Ratio Lower Upper
82 100
128 40.2 32.2 48.2
54 41.4 34.2 51.2



#25
Isophorone
Concen: 23.762 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.27 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion: 82 Resp: 126803
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 14.2 21.2#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

Instrument :

BNA_F

ClientSampleId :

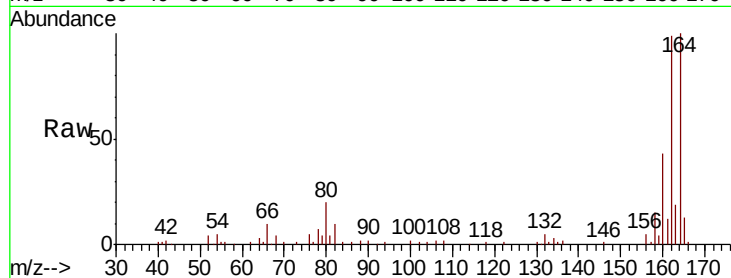
Tot Ion:164 Resp: 70916

Ion Ratio Lower Upper

164 100

162 98.6 81.8 122.6

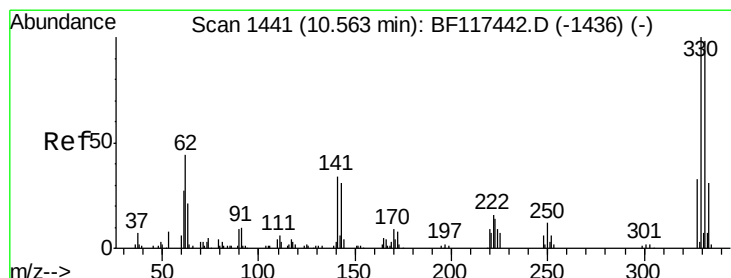
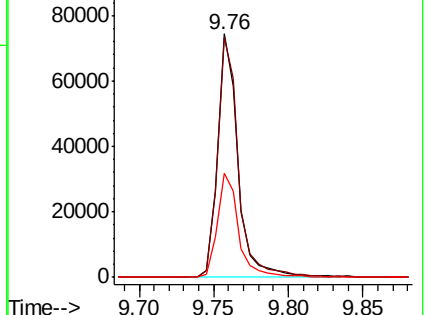
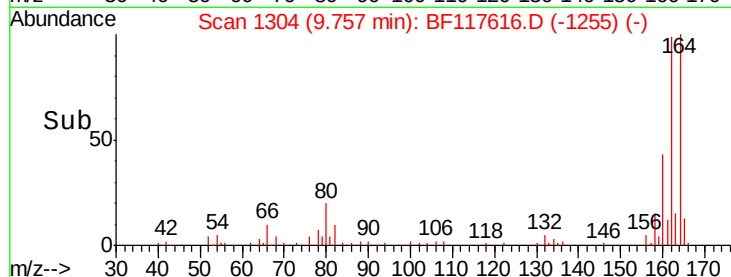
160 43.0 34.4 51.6



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: 55.342 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

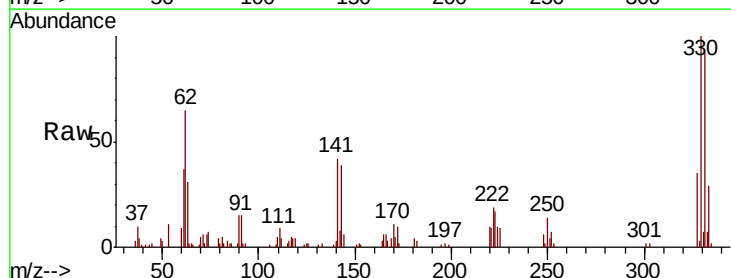
Tgt Ion:330 Resp: 33958

Ion Ratio Lower Upper

330 100

332 96.4 78.5 117.7

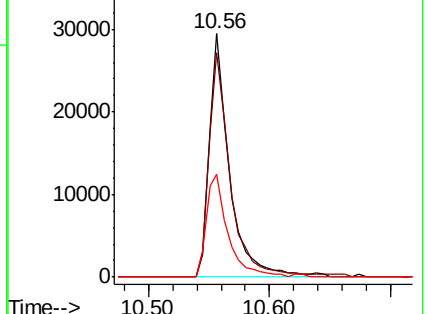
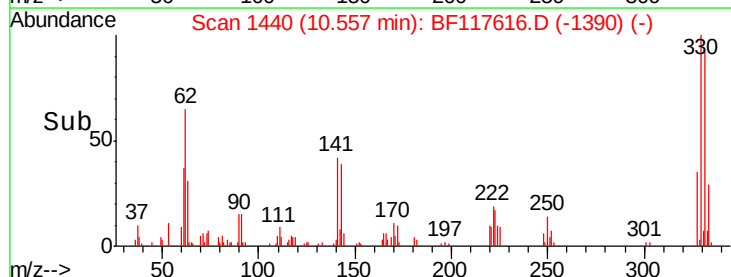
141 45.0 37.0 55.6

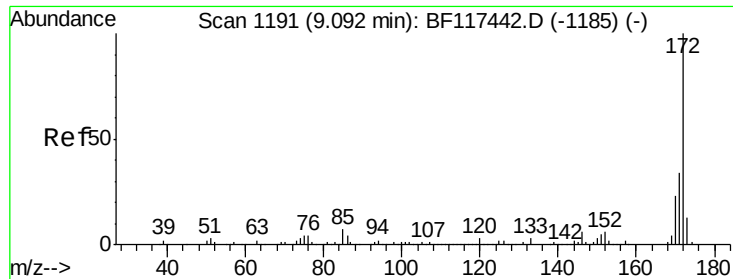


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

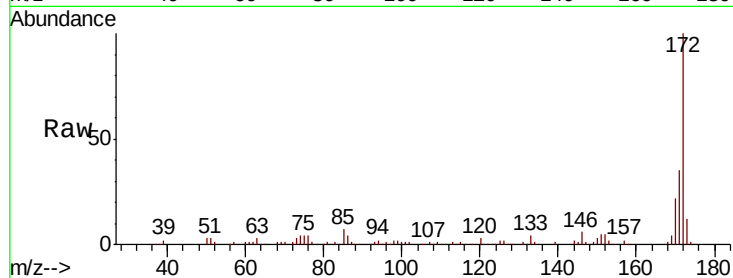




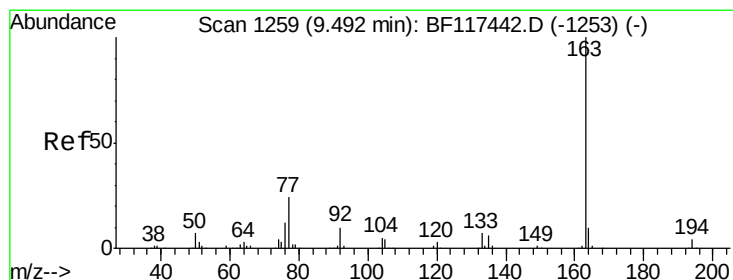
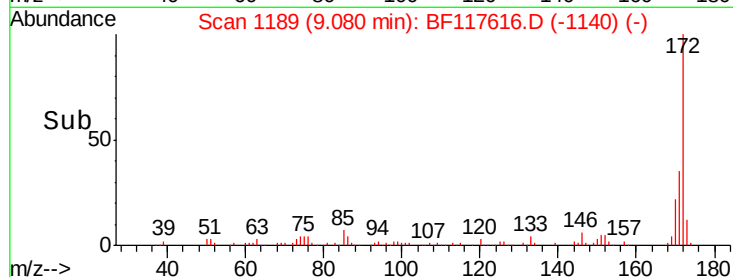
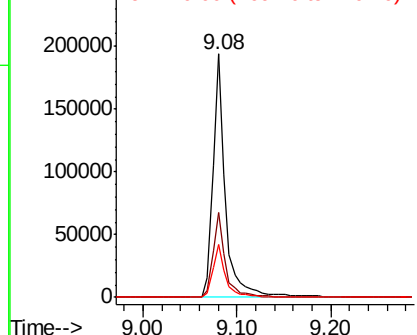
#45
2-Fluorobiphenyl
Concen: 36.505 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 183734
Ion Ratio Lower Upper
172 100
171 34.9 27.5 41.3
170 21.8 18.6 27.8

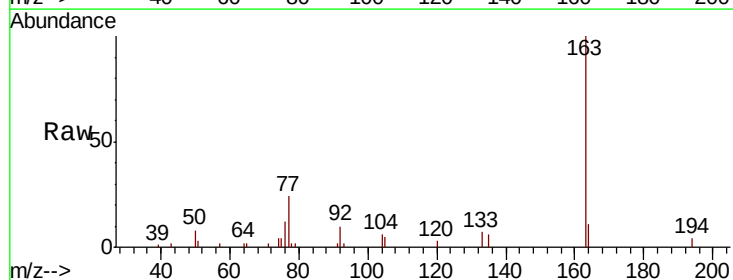


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

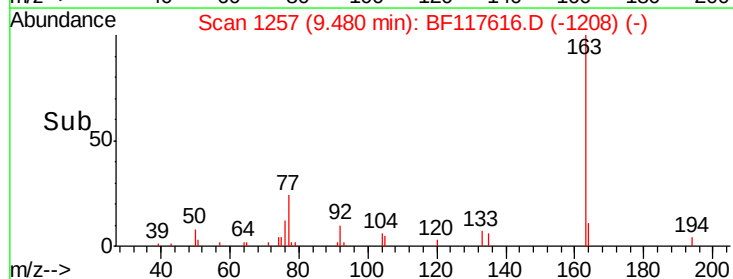
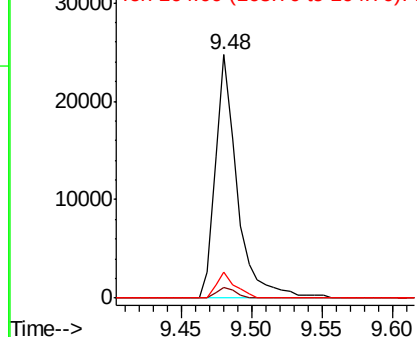


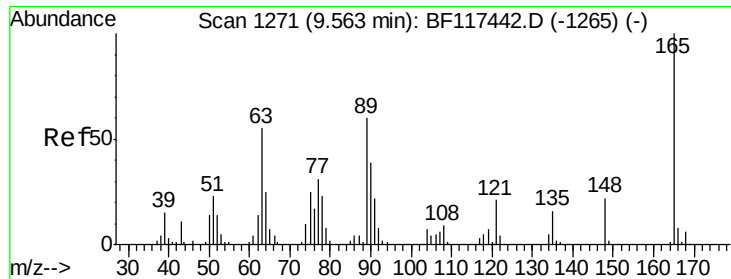
#50
Dimethylphthalate
Concen: 5.289 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion:163 Resp: 26737
Ion Ratio Lower Upper
163 100
194 4.4 2.9 4.3#
164 10.8 8.2 12.2



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

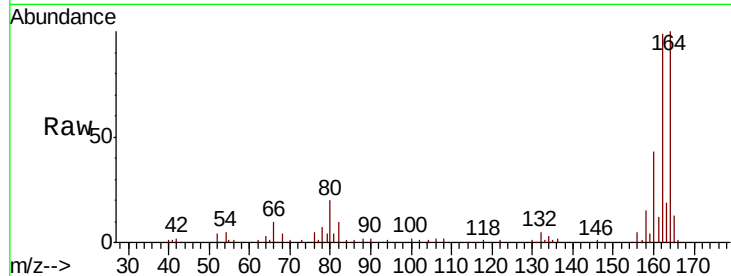




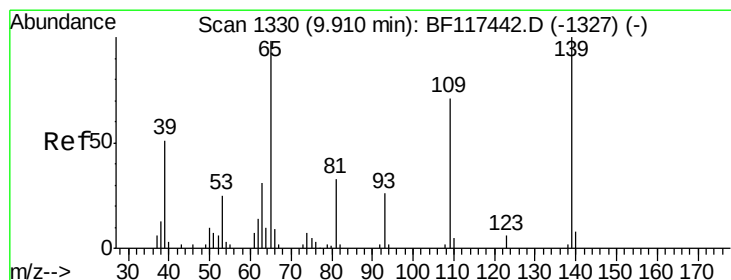
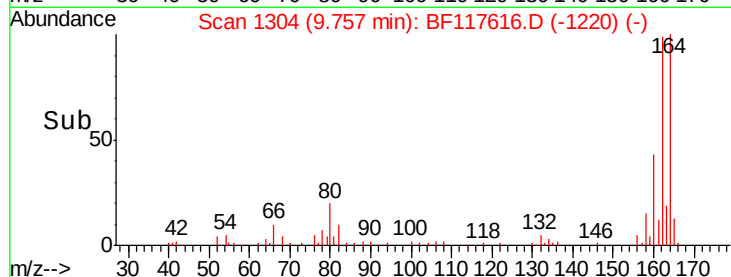
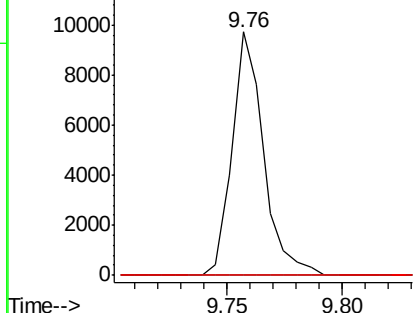
#51
 2,6-Dinitrotoluene
 Concen: 8.740 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.19 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 9220
 Ion Ratio Lower Upper
 165 100
 63 0.0 43.8 65.8#
 89 0.0 47.6 71.4#

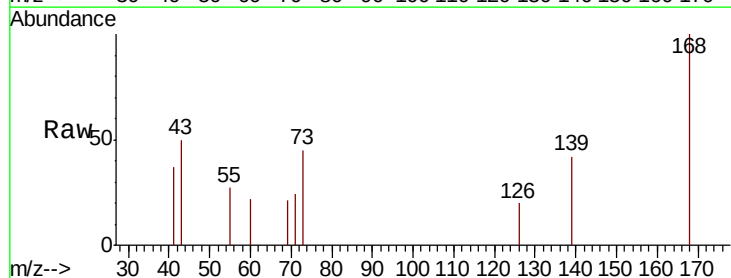


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

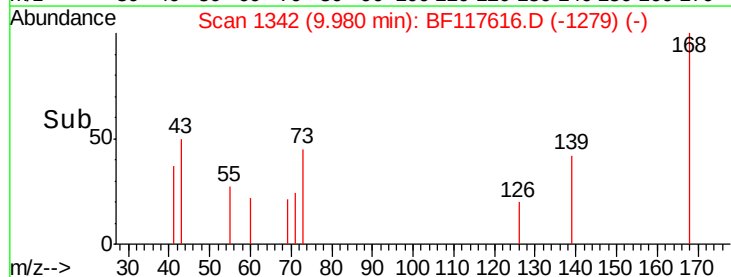
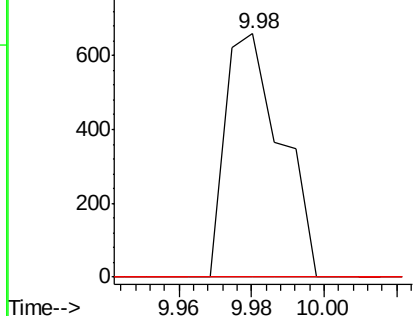


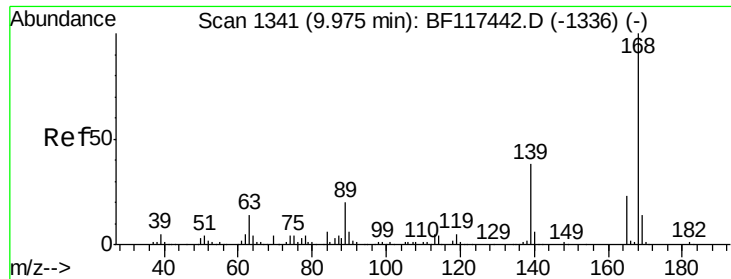
#56
 4-Nitrophenol
 Concen: 5.263 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. 0.07 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

Tgt Ion:139 Resp: 704
 Ion Ratio Lower Upper
 139 100
 109 0.0 51.4 91.4#
 65 0.0 79.4 119.4#



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

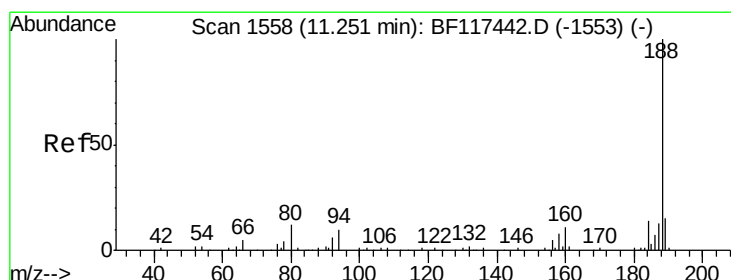
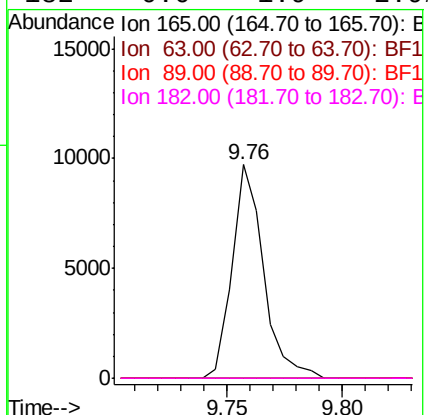
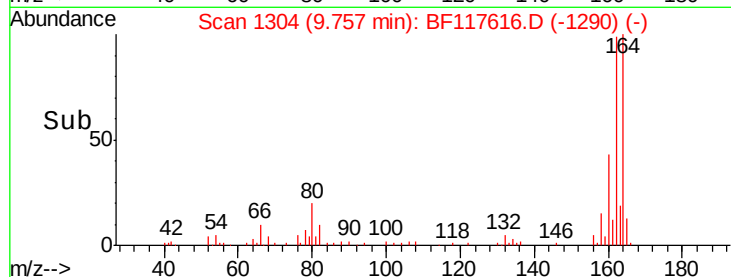
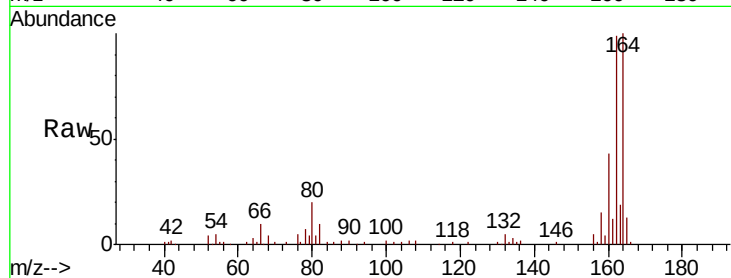




#57
 2,4-Dinitrotoluene
 Concen: 6.573 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.22 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

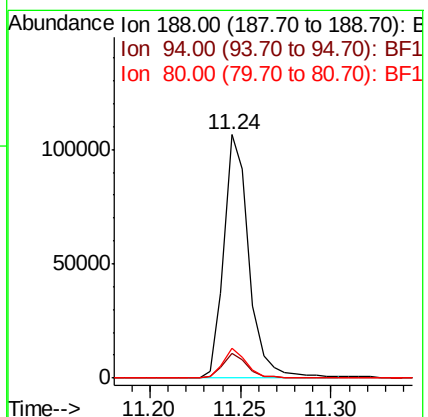
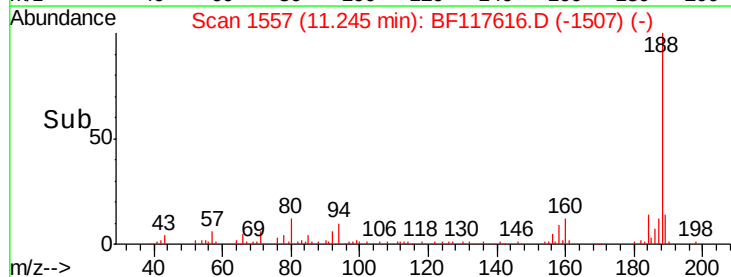
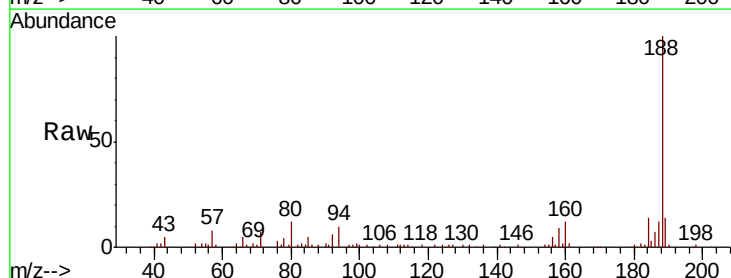
Instrument :
 BNA_F
 ClientSampleId :

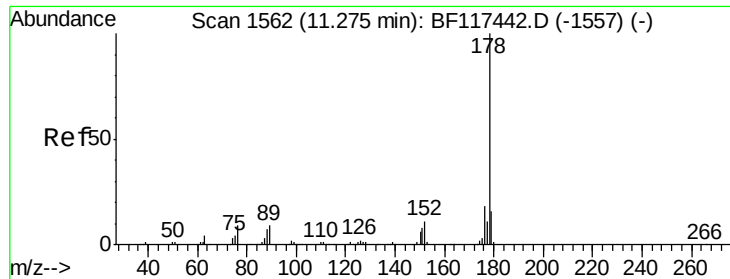
Tot Ion:165 Resp: 9220
 Ion Ratio Lower Upper
 165 100
 63 0.0 51.4 77.0#
 89 0.0 69.9 104.9#
 182 0.0 1.9 2.9#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

Tgt Ion:188 Resp: 103109
 Ion Ratio Lower Upper
 188 100
 94 9.9 8.0 12.0
 80 12.2 9.5 14.3

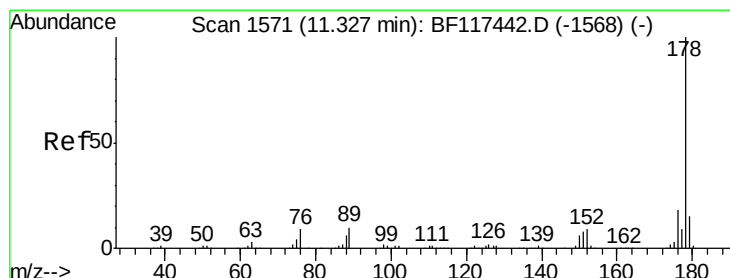
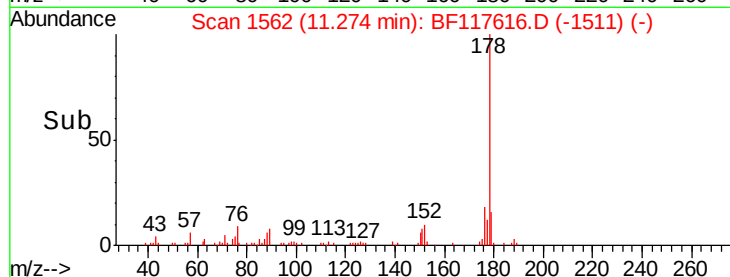
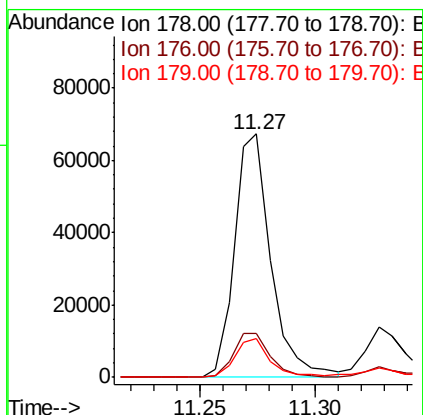
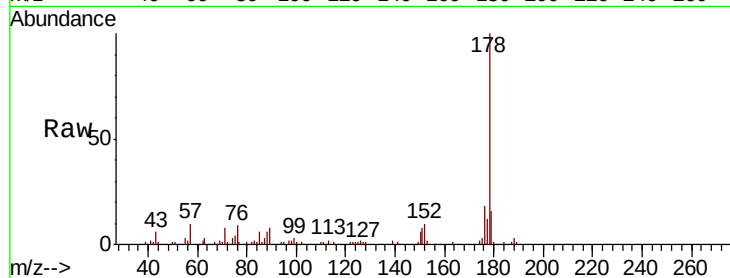




#71
Phenanthrene
Concen: 12.358 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

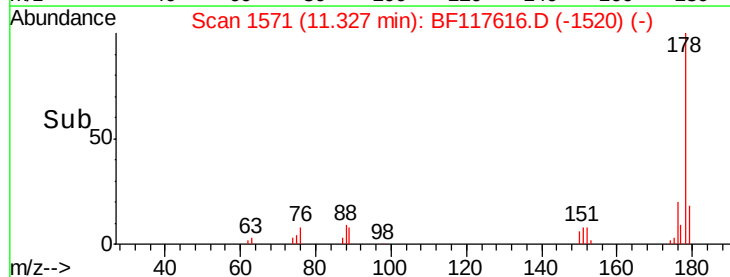
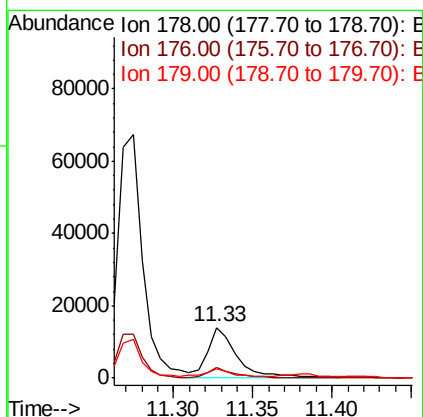
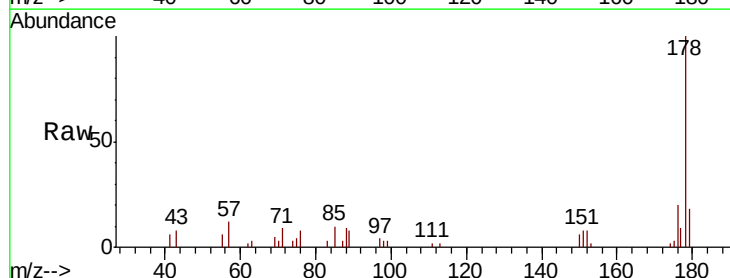
Instrument :
BNA_F
ClientSampleId :

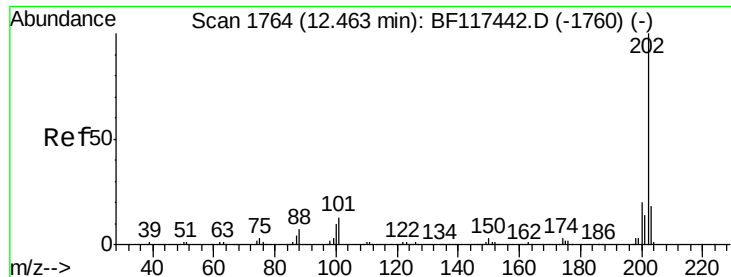
Tot Ion:178 Resp: 73992
Ion Ratio Lower Upper
178 100
176 17.8 14.6 22.0
179 16.0 12.6 19.0



#72
Anthracene
Concen: 2.996 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion:178 Resp: 18405
Ion Ratio Lower Upper
178 100
176 19.9 14.7 22.1
179 17.6 12.2 18.2





#75

Fluoranthene

Concen: 23.123 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.00 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

Instrument :

BNA_F

ClientSampleId :

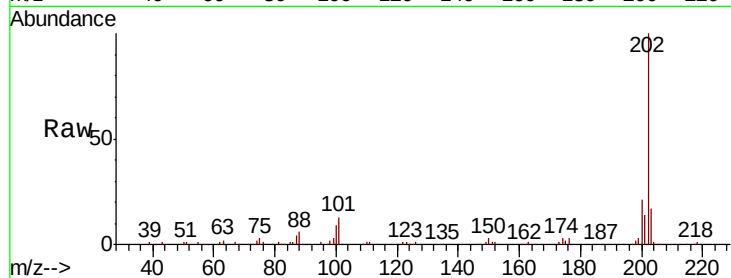
Tot Ion:202 Resp: 138588

Ion Ratio Lower Upper

202 100

101 12.6 0.0 32.7

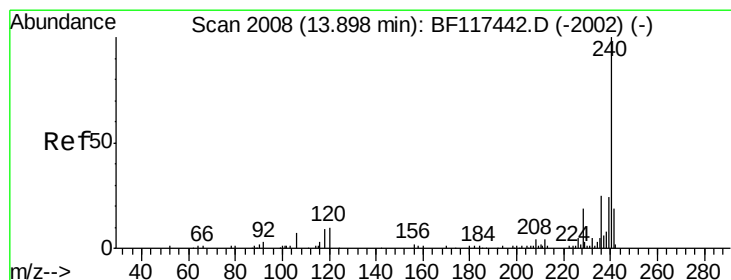
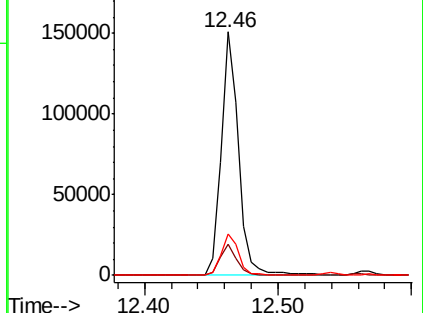
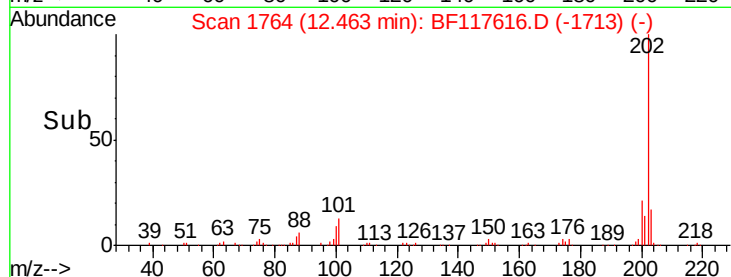
203 16.9 0.0 37.6



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: BF117616.D

Acq: 30 Oct 2019 11:32

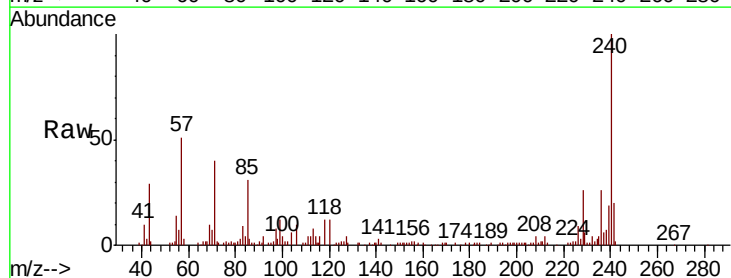
Tgt Ion:240 Resp: 73139

Ion Ratio Lower Upper

240 100

120 11.8 8.4 12.6

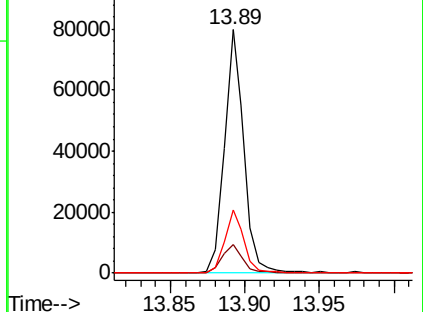
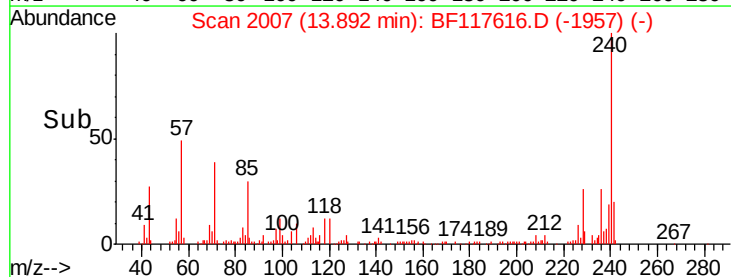
236 26.0 20.0 30.0

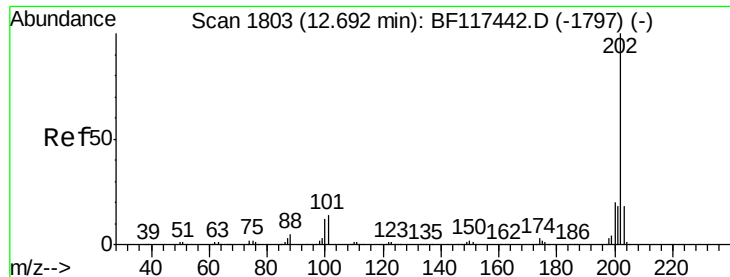


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

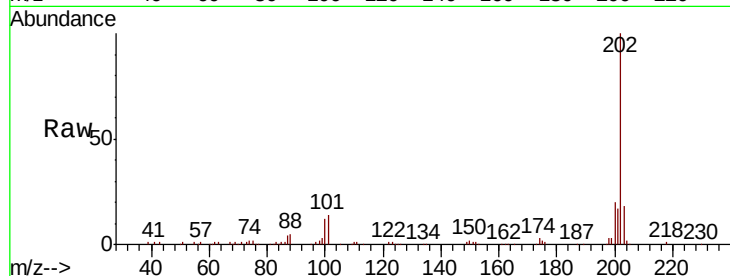




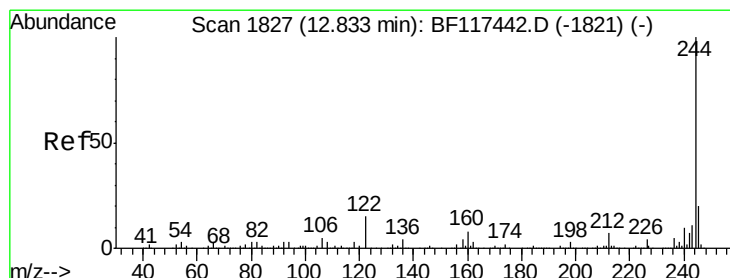
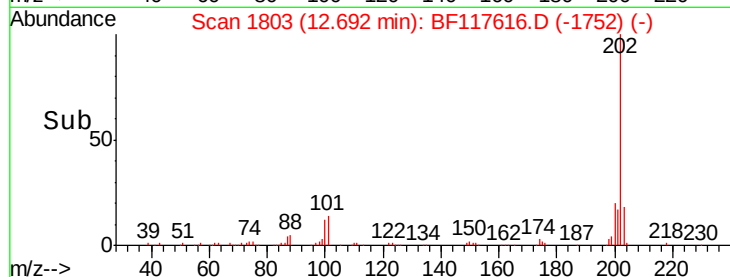
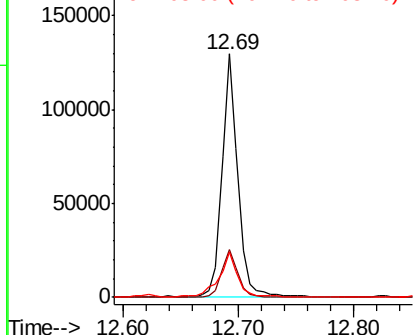
#78
Pvrene
Concen: 19.810 ng
RT: 12.69 min Scan# 1803
Delta R.T. -0.00 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 124453
Ion Ratio Lower Upper
202 100
200 19.7 16.2 24.2
203 18.4 14.0 21.0

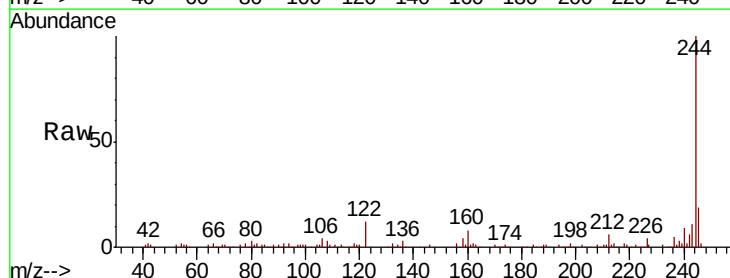


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

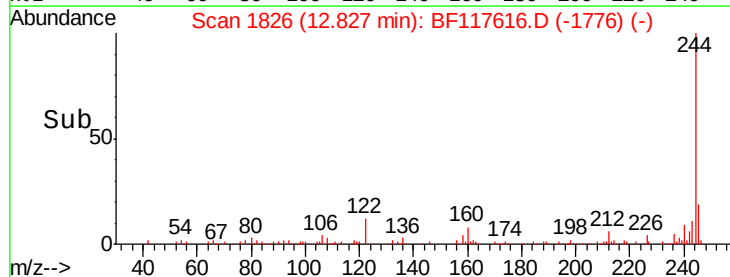
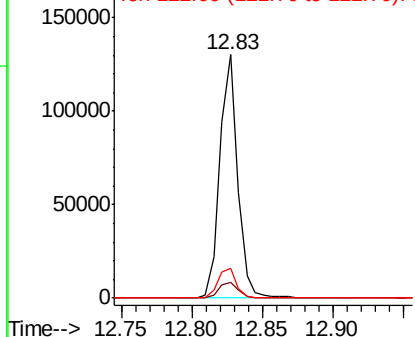


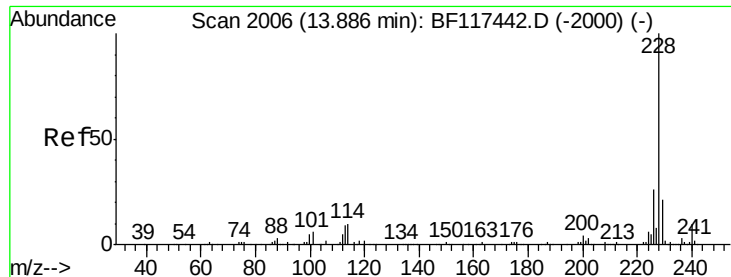
#79
Terphenyl-d14
Concen: 25.549 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion:244 Resp: 114563
Ion Ratio Lower Upper
244 100
212 6.3 5.8 8.6
122 12.4 11.8 17.8



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: 13.049 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

Instrument :

BNA_F

ClientSampleId :

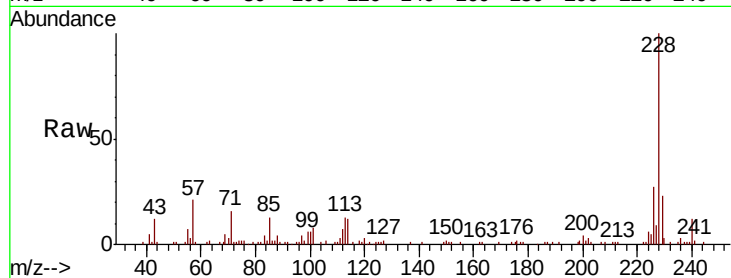
Tot Ion:228 Resp: 64377

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.0	31.4
229	22.6	16.4	24.6

228 100

226 26.6 21.0 31.4

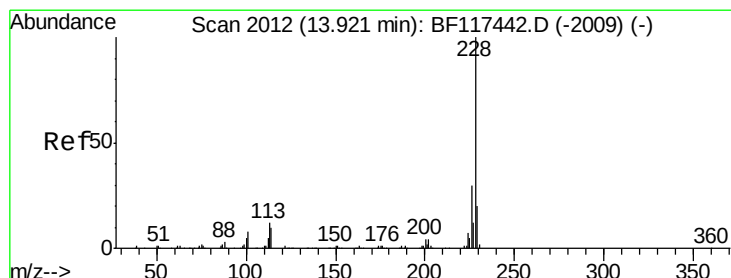
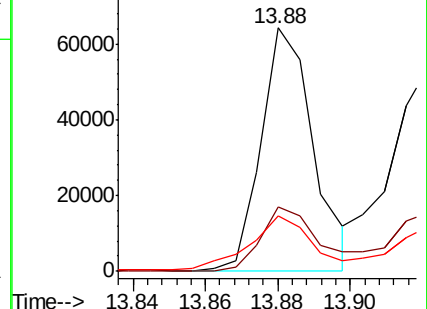
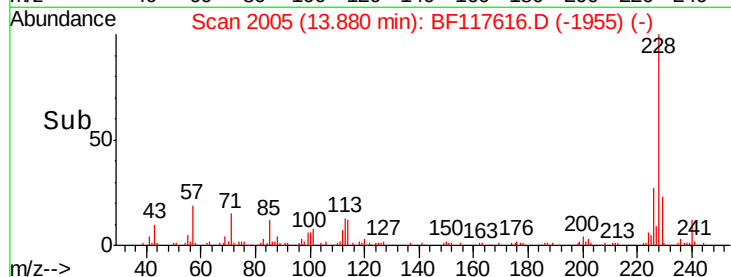
229 22.6 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 12.395 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.00 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

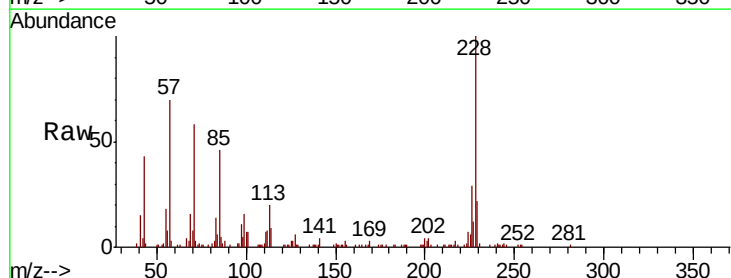
Tgt Ion:228 Resp: 59932

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.9	35.9
229	21.7	15.8	23.6

228 100

226 29.2 23.9 35.9

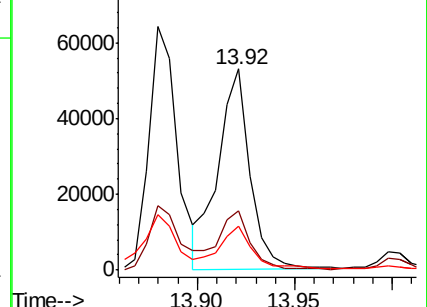
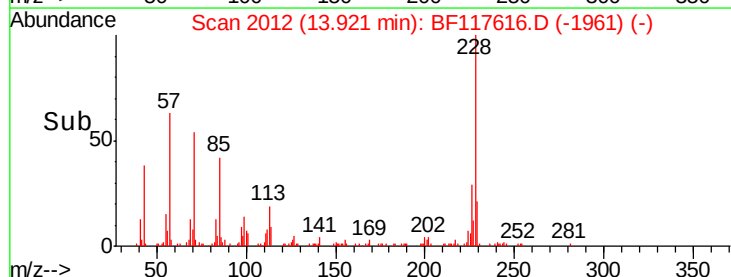
229 21.7 15.8 23.6

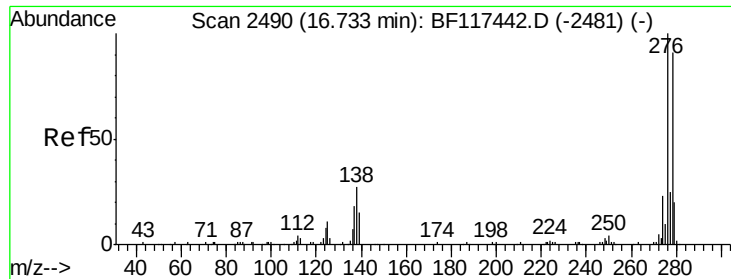


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

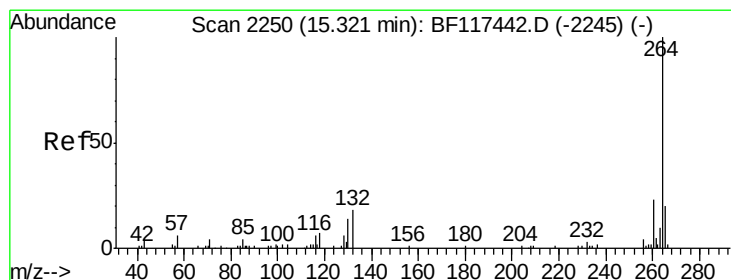
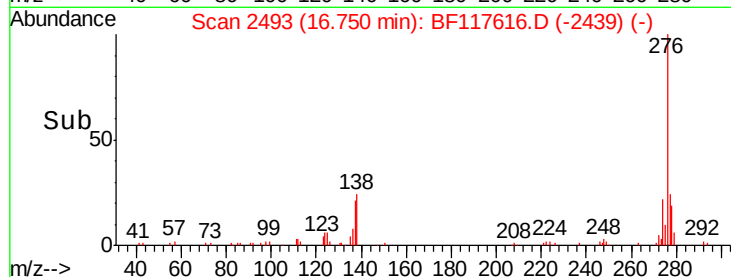
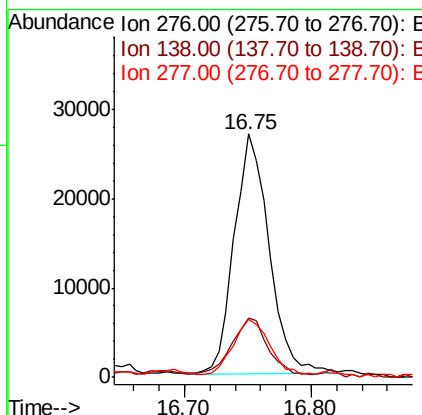
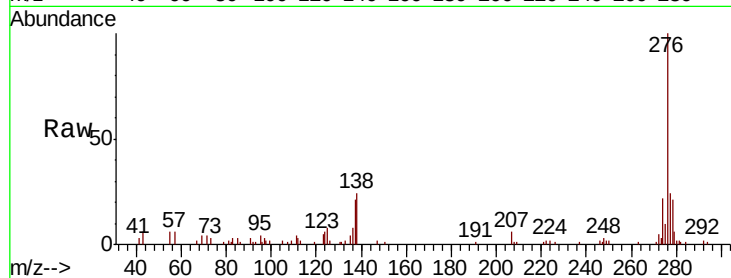




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 14.238 ng
 RT: 16.75 min Scan# 2493
 Delta R.T. 0.02 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

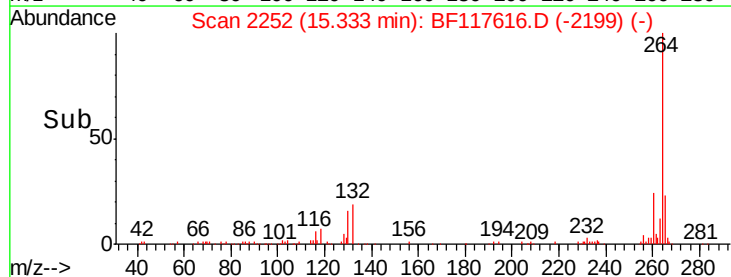
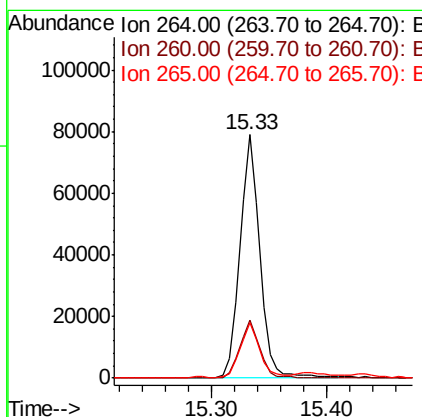
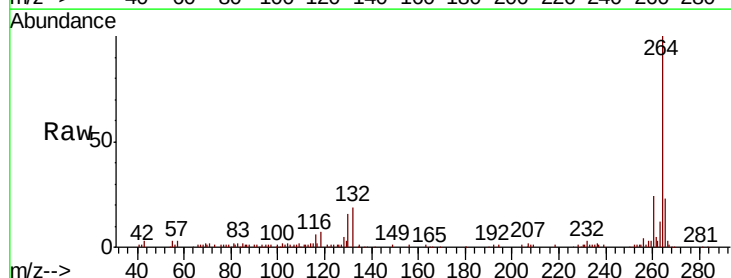
Instrument :
 BNA_F
 ClientSampleId :

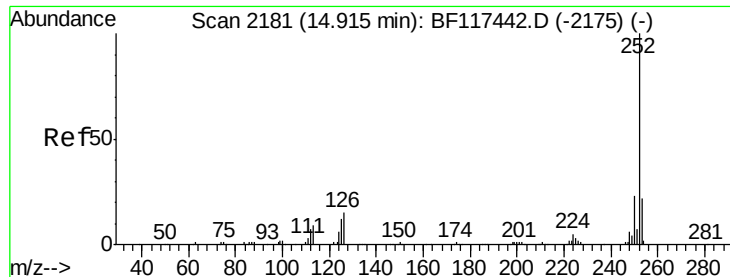
Tot Ion:276	Resp:	51399
Ion Ratio	Lower	Upper
276	100	
138	25.4	21.8 32.8
277	25.0	20.0 30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: BF117616.D
 Acq: 30 Oct 2019 11:32

Tgt Ion:264	Resp:	94511
Ion Ratio	Lower	Upper
264	100	
260	23.6	18.4 27.6
265	23.0	16.1 24.1





#88

Benzo(b)fluoranthene

Concen: 21.858 ng

RT: 14.93 min Scan# 2183

Delta R.T. 0.01 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

Instrument :

BNA_F

ClientSampleId :

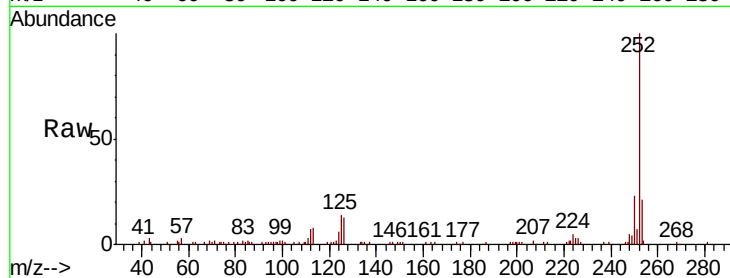
Tot Ion:252 Resp: 121990

Ion Ratio Lower Upper

252 100

253 20.6 17.8 26.6

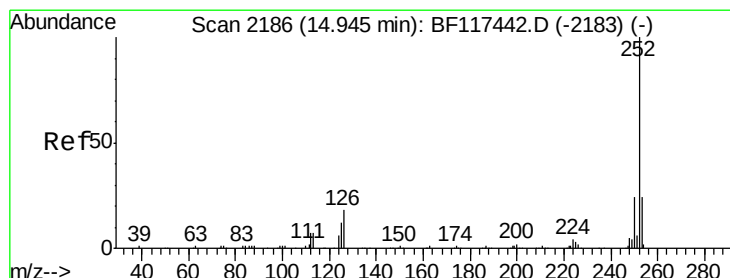
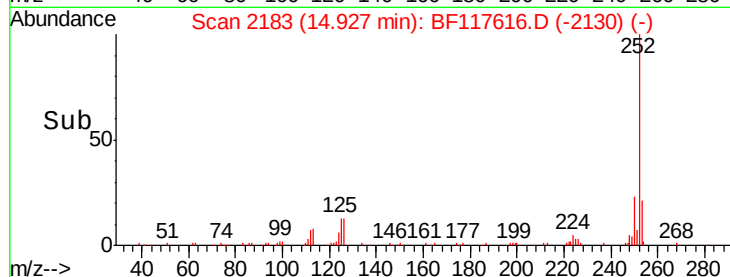
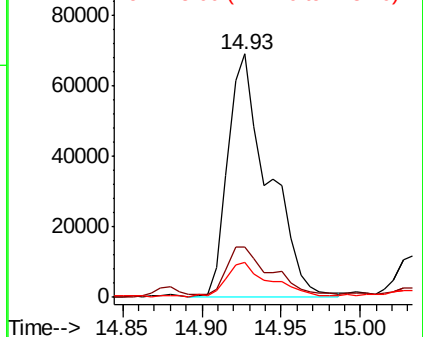
125 14.1 9.9 14.9



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



#89

Benzo(k)fluoranthene

Concen: 21.326 ng

RT: 14.93 min Scan# 2183

Delta R.T. -0.02 min

Lab File: BF117616.D

Acq: 30 Oct 2019 11:32

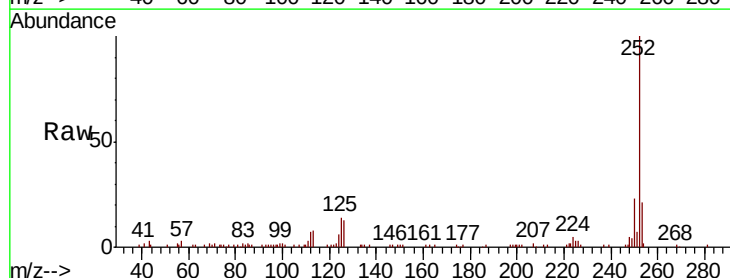
Tgt Ion:252 Resp: 121990

Ion Ratio Lower Upper

252 100

253 20.6 18.0 27.0

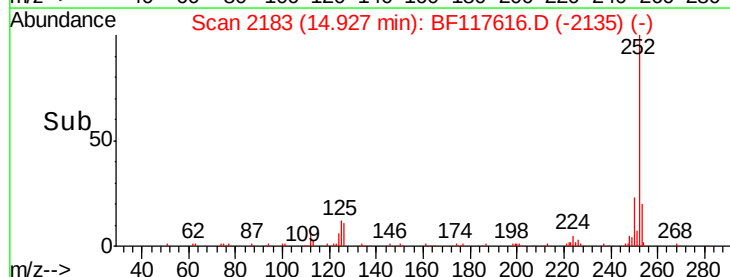
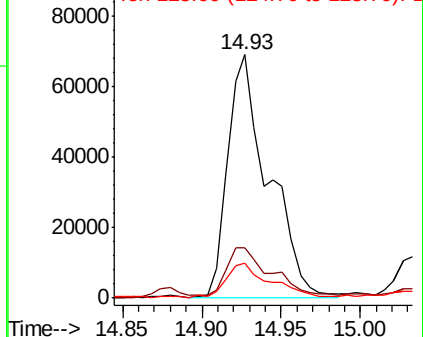
125 14.1 8.9 13.3#

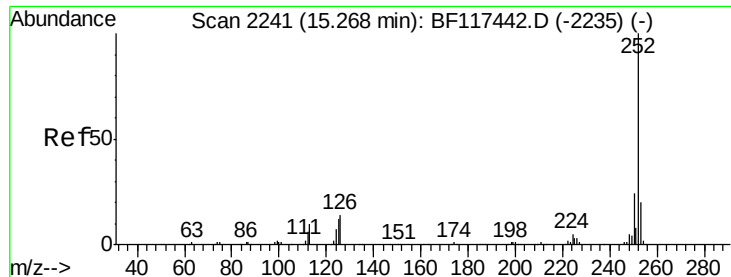


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

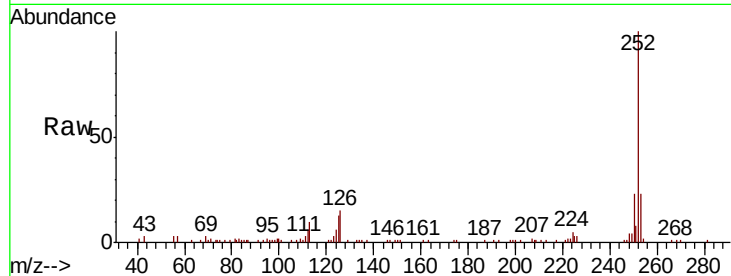




#90
Benzo(a)pyrene
Concen: 13.834 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	16.3	24.5
125	13.1	9.2	13.8

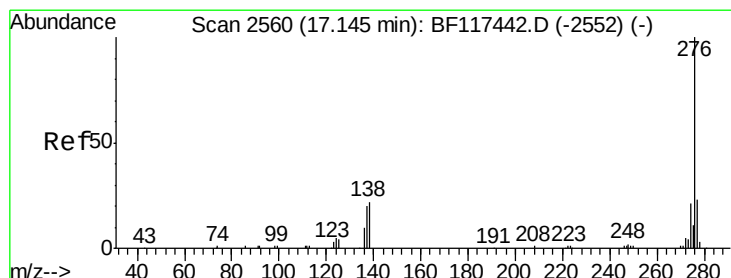
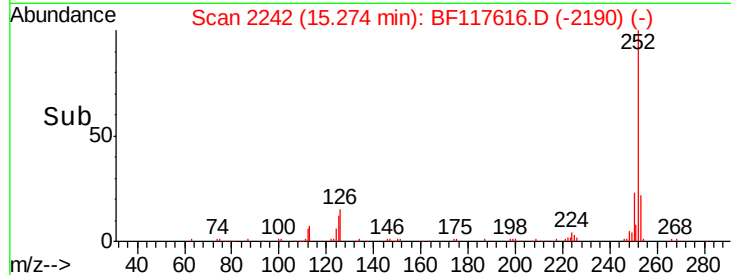
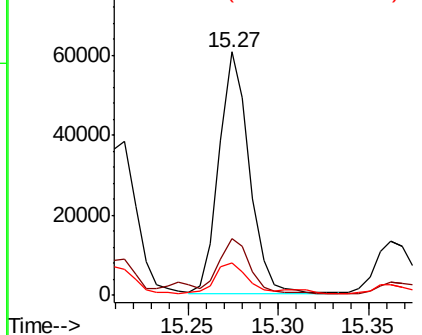


Abundance

Ion 252.00 (251.70 to 252.70): E

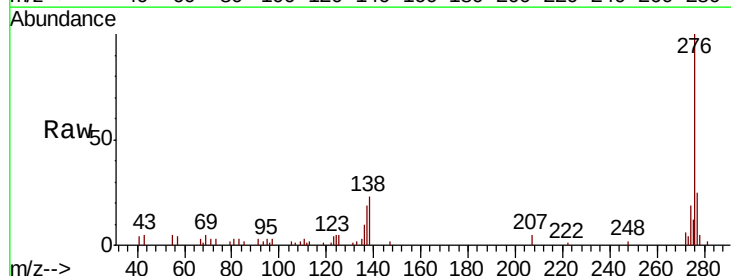
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 12.466 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF117616.D
Acq: 30 Oct 2019 11:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.4	27.6
138	23.2	17.8	26.6



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

