

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093019\
 Data File : BF117274.D
 Acq On : 30 Sep 2019 21:21
 Operator : JU
 Sample : K4668-16 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 01 01:41:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	25231	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	93452	20.00	ng	-0.01
39) Acenaphthene-d10	9.84	164	40240	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	64802	20.00	ng	0.00
76) Chrysene-d12	13.97	240	68538	20.00	ng	0.00
87) Perylene-d12	15.43	264	60230	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	74177	45.90	ng	0.00
7) Phenol-d6	6.45	99	98733	47.27	ng	0.00
23) Nitrobenzene-d5	7.37	82	56087	31.53	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	15038	44.71	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	95688	37.18	ng	-0.01
79) Terphenyl-d14	12.91	244	99883	27.24	ng	0.00

Target Compounds

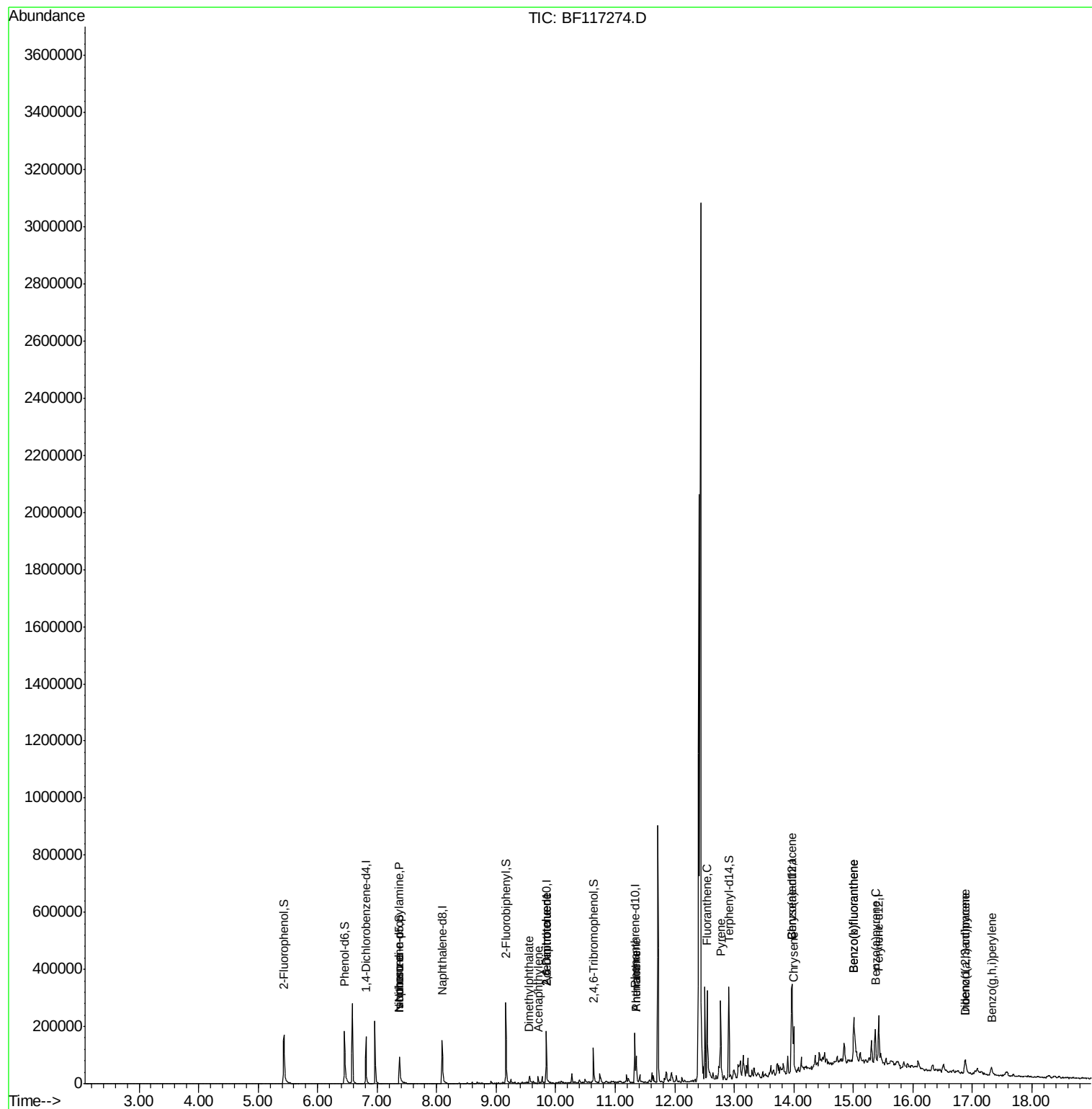
						Qvalue
9) Benzaldehyde	6.58	77	1939	Below Cal	#	64
19) n-Nitroso-di-n-propylamine	7.37	70	6588	5.180 ng	#	77
25) Isophorone	7.37	82	56086	17.810 ng	#	66
49) Acenaphthylene	9.70	152	12558	3.365 ng		94
50) Dimethylphthalate	9.56	163	9162	3.216 ng	#	98
51) 2,6-Dinitrotoluene	9.84	165	5715	9.849 ng	#	24
57) 2,4-Dinitrotoluene	9.84	165	5715	7.587 ng	#	18
71) Phenanthrene	11.35	178	33279	9.041 ng		98
72) Anthracene	11.35	178	33279	8.856 ng		95
75) Fluoranthene	12.55	202	122871	32.489 ng		97
78) Pyrene	12.77	202	123625	21.497 ng		98
81) Benzo(a)anthracene	13.96	228	79076	17.269 ng		99
83) Chrysene	14.00	228	68401	15.316 ng		98
86) Indeno(1,2,3-cd)pyrene	16.88	276	27553	8.456 ng		97
88) Benzo(b)fluoranthene	15.01	252	109852	30.110 ng		97
89) Benzo(k)fluoranthene	15.01	252	109852	31.786 ng		97
90) Benzo(a)pyrene	15.37	252	53403	16.681 ng		98
91) Dibenzo(a,h)anthracene	16.87	278	8763	3.436 ng	#	90
92) Benzo(a,h,i)perylene	17.32	276	22887	9.005 ng		95

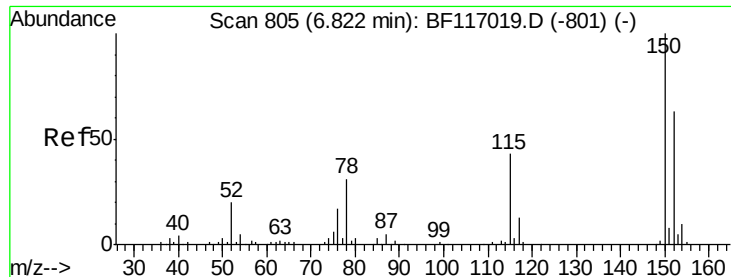
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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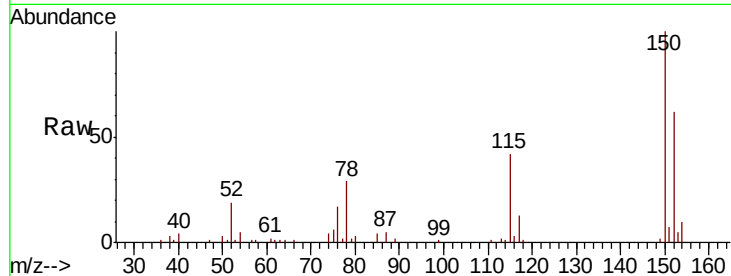


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.5	127.5	191.3
115	68.5	55.0	82.4

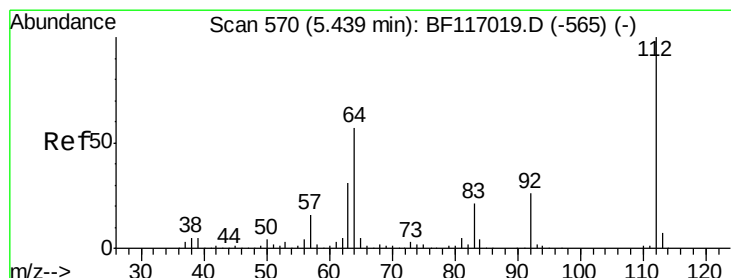
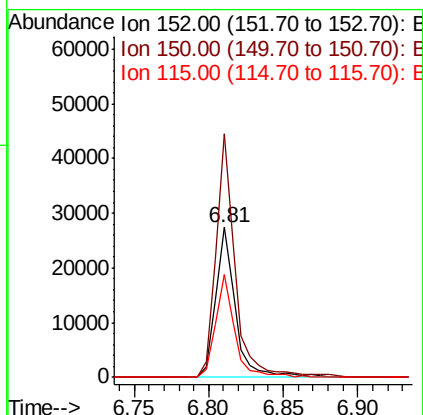
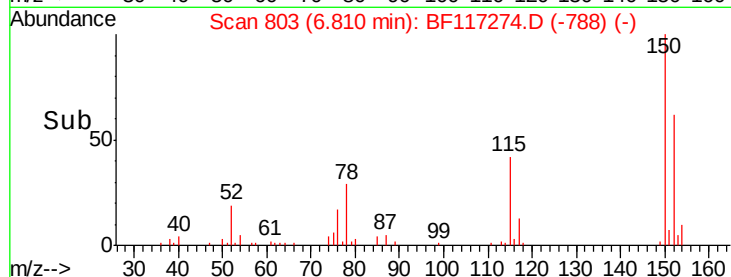


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

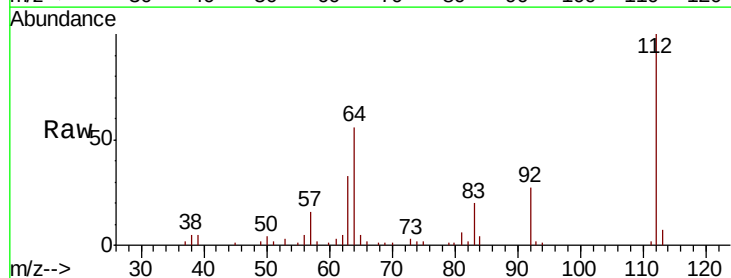
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 45.899 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	45.7	68.5
63	32.7	24.9	37.3

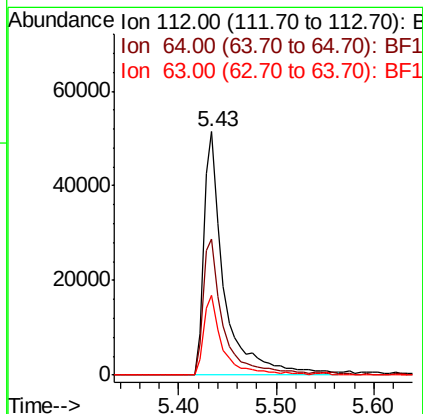
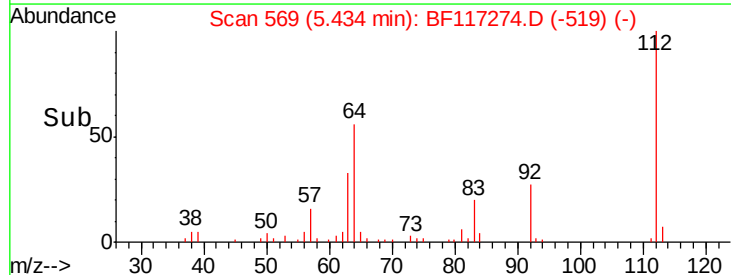


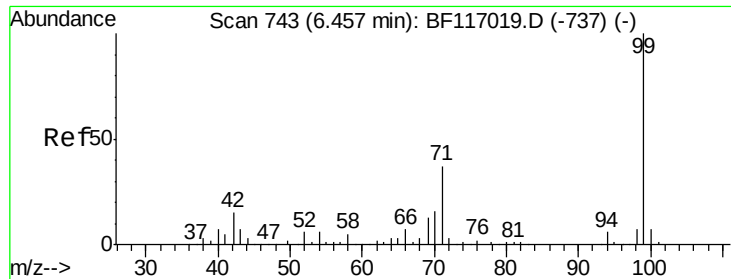
Abundance

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: 47.273 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA_F

ClientSampleId :

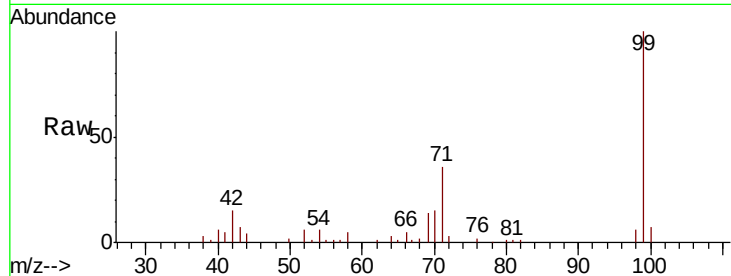
Tot Ion: 99 Resp: 98733

Ion Ratio Lower Upper

99 100

42 14.6 12.2 18.2

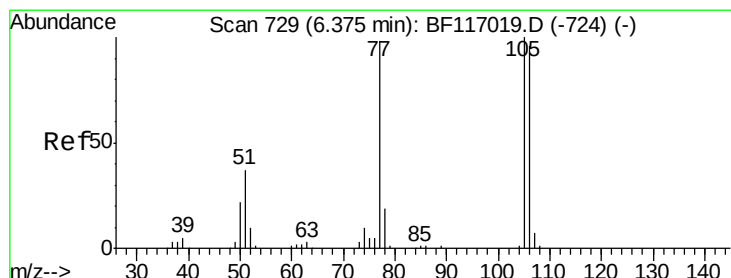
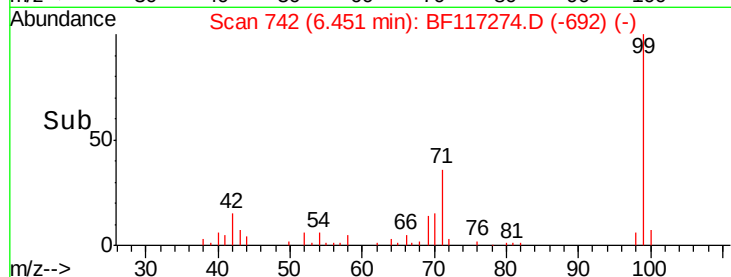
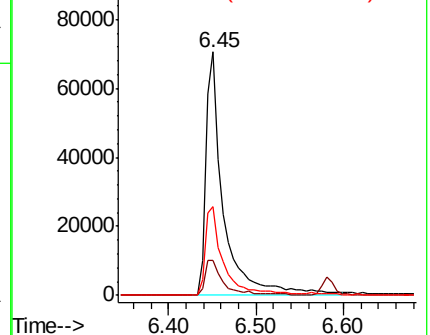
71 36.4 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.58 min Scan# 764

Delta R.T. 0.21 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

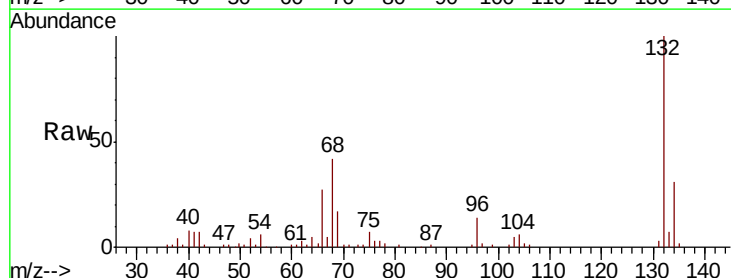
Tgt Ion: 77 Resp: 1939

Ion Ratio Lower Upper

77 100

105 70.8 81.8 121.8#

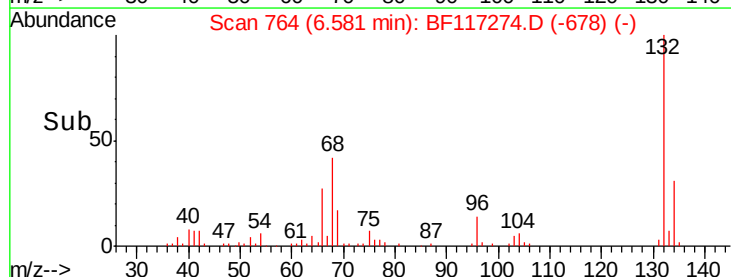
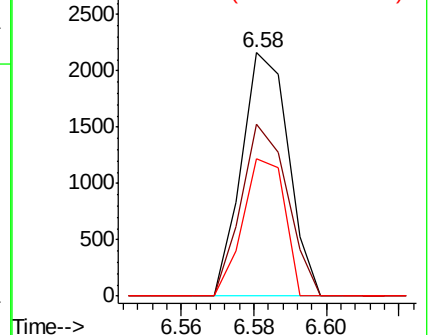
106 56.5 77.3 117.3#

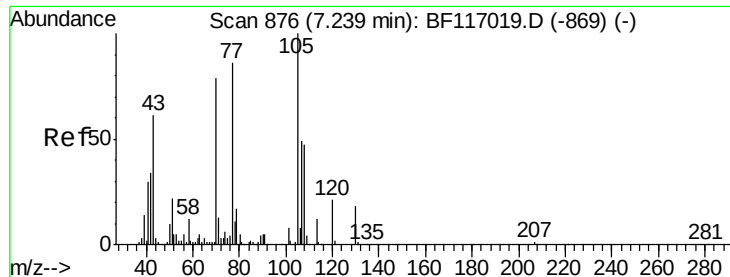


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

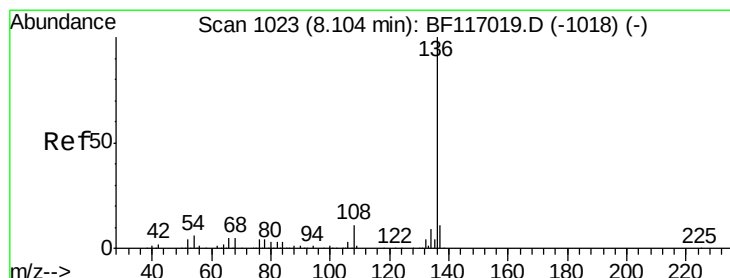
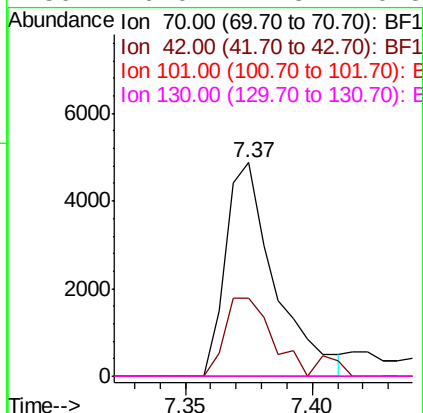
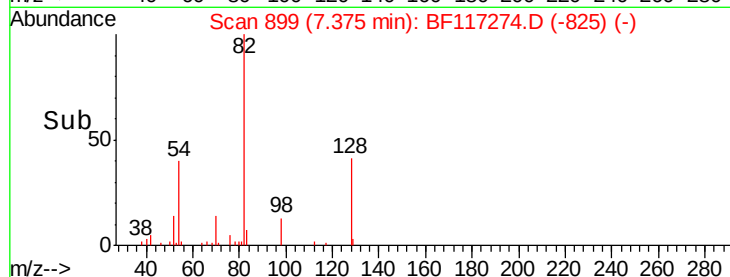
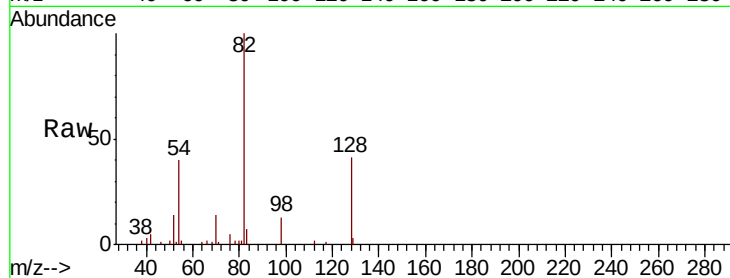




#19
n-Nitroso-di-n-propylamine
Concen: 5.180 ng
RT: 7.37 min Scan# 899
Delta R.T. 0.14 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

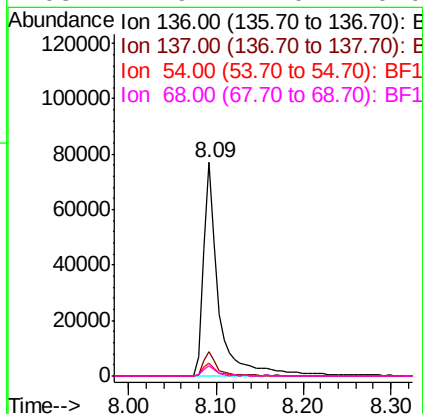
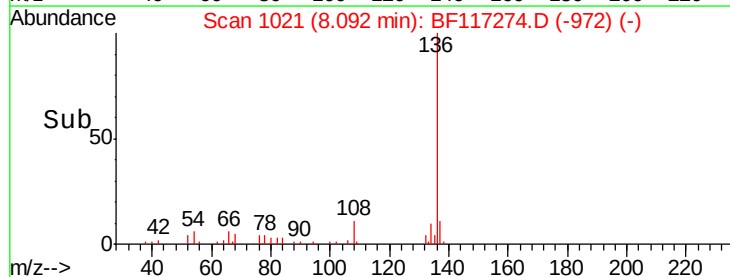
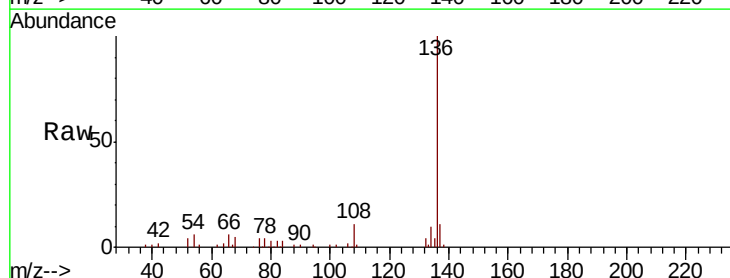
Instrument :
BNA_F
ClientSampleId :

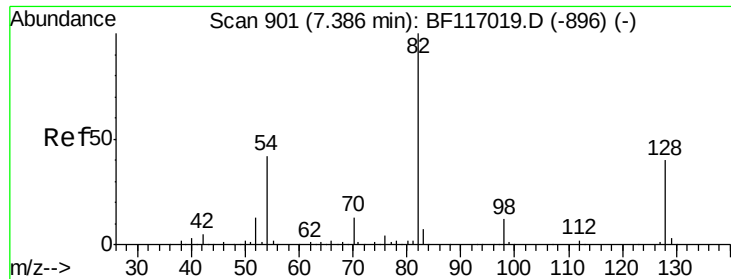
Tot Ion: 70 Resp: 6588
Ion Ratio Lower Upper
70 100
42 36.7 34.0 51.0
101 0.0 7.8 11.6#
130 0.0 17.8 26.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion: 136 Resp: 93452
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 6.0 4.5 6.7
68 4.9 4.0 6.0

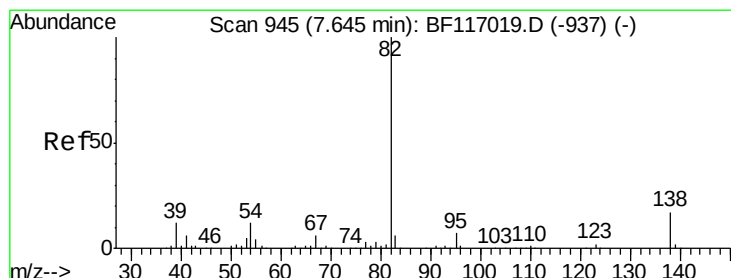
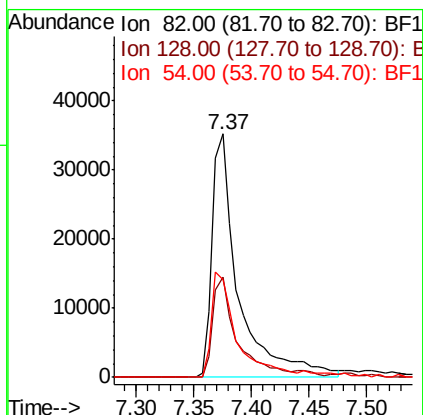
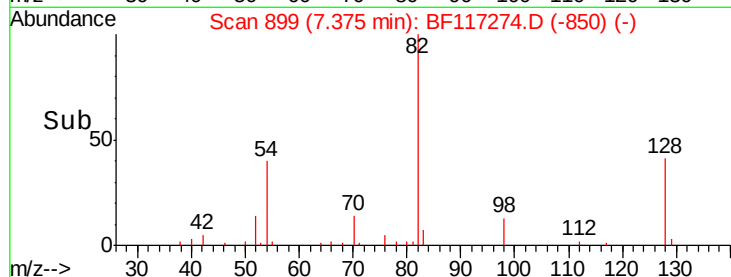
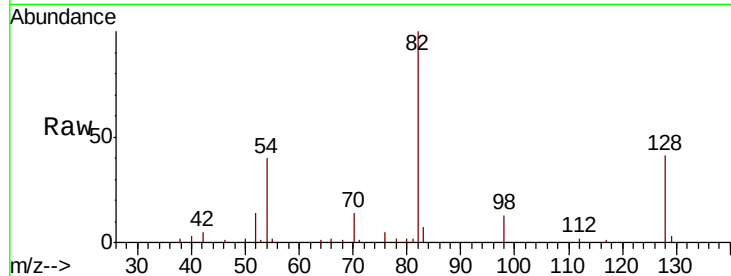




#23
Nitrobenzene-d5
Concen: 31.534 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

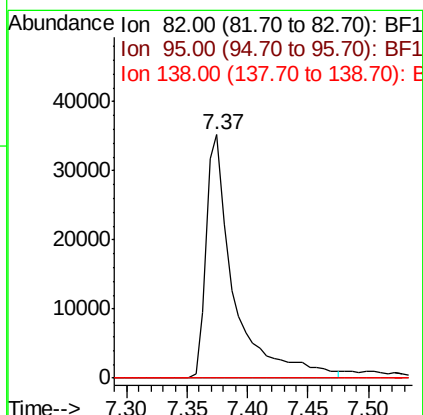
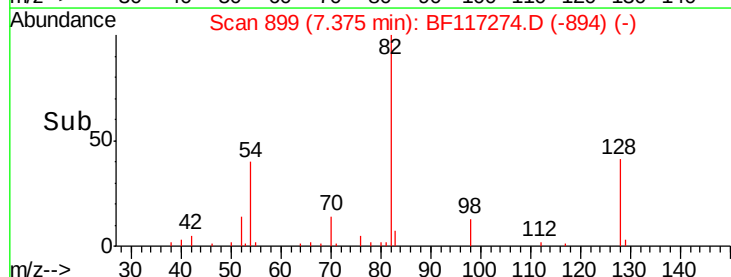
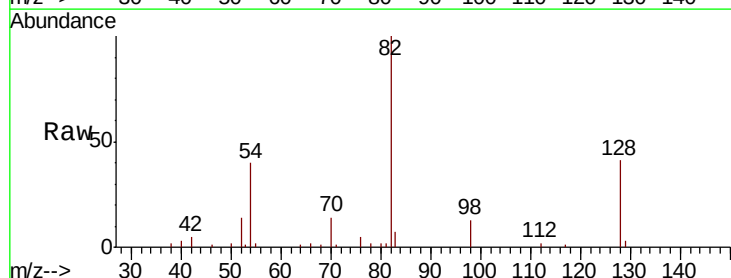
Instrument :
BNA_F
ClientSampled :

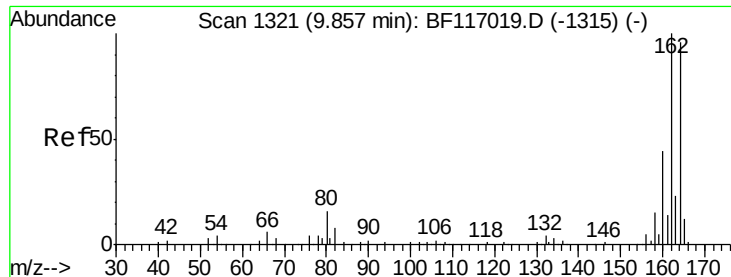
Tot Ion	82	Resp	56087
Ion Ratio	100	Lower	Upper
128	41.0	32.3	48.5
54	39.9	33.3	49.9



#25
Isophorone
Concen: 17.810 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.27 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion	82	Resp	56086
Ion Ratio	100	Lower	Upper
95	0.0	5.8	8.6#
138	0.0	13.5	20.3#

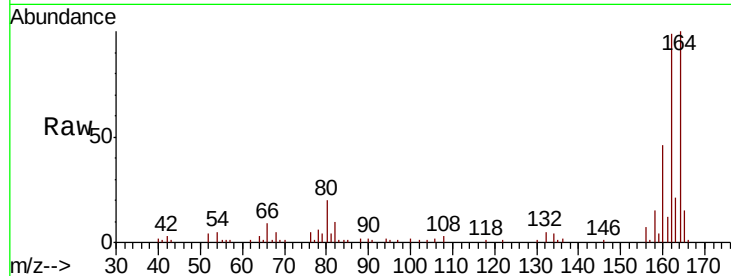




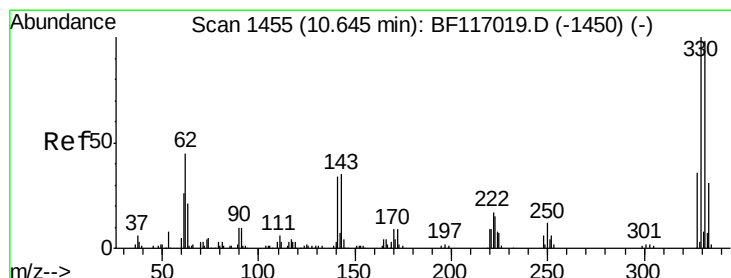
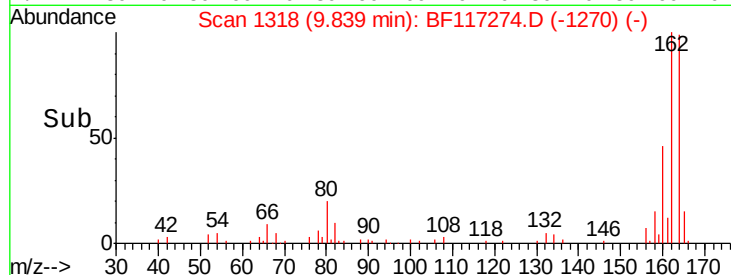
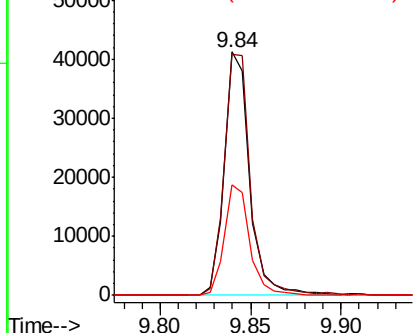
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.02 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 40240
Ion Ratio Lower Upper
164 100
162 98.8 83.4 125.2
160 45.5 36.4 54.6

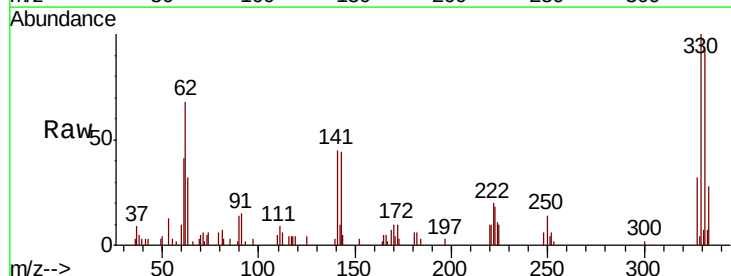


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

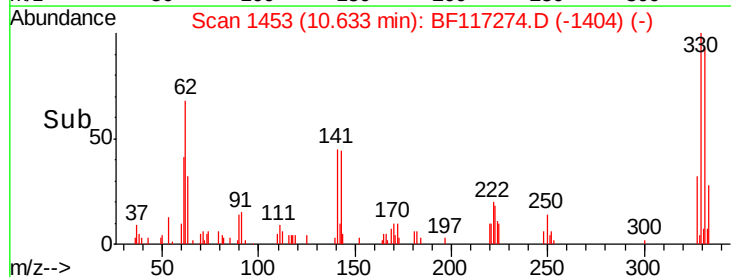
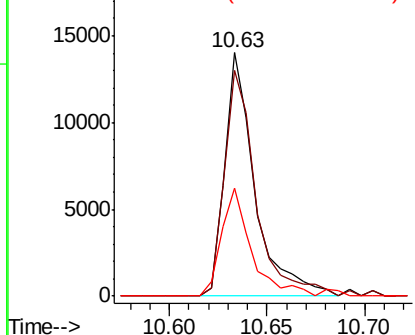


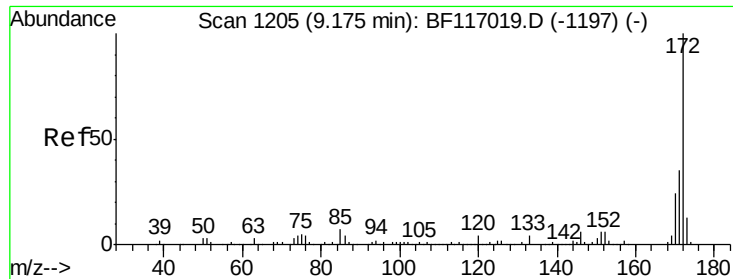
#42
2,4,6-Tribromophenol
Concen: 44.714 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion:330 Resp: 15038
Ion Ratio Lower Upper
330 100
332 96.5 78.0 117.0
141 44.1 35.8 53.6



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

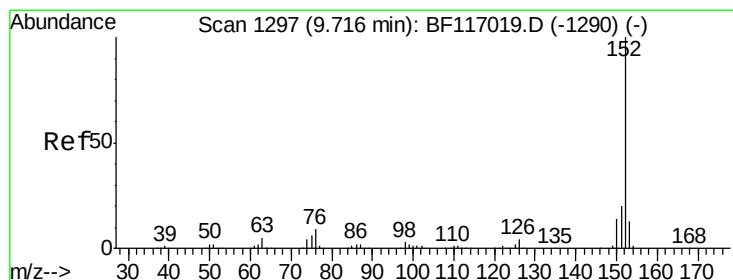
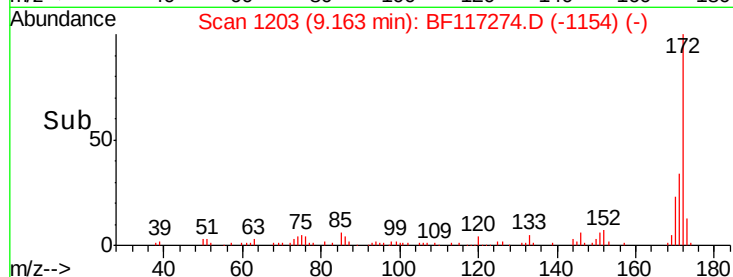
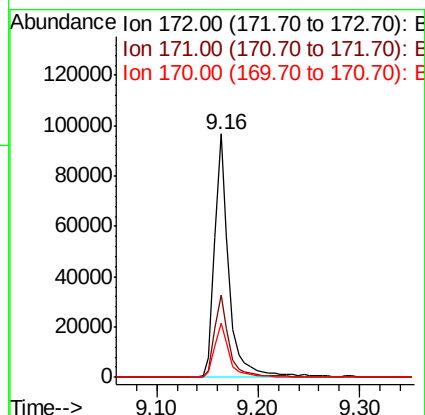
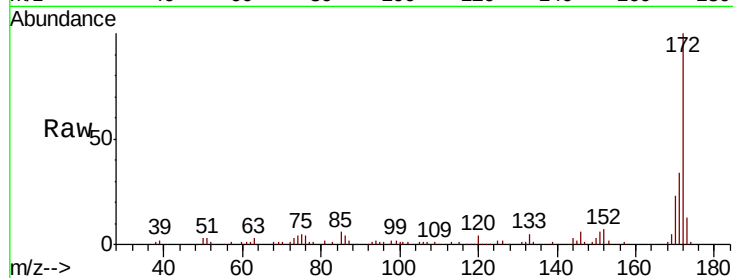




#45
 2-Fluorobiphenyl
 Concen: 37.181 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

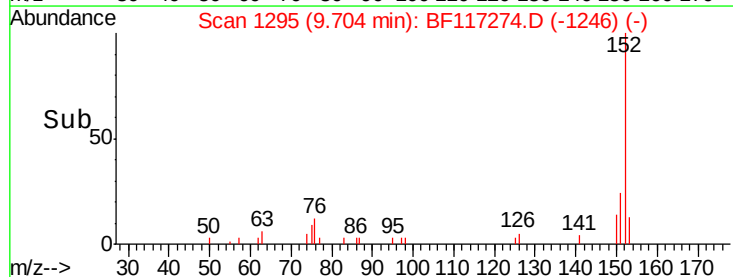
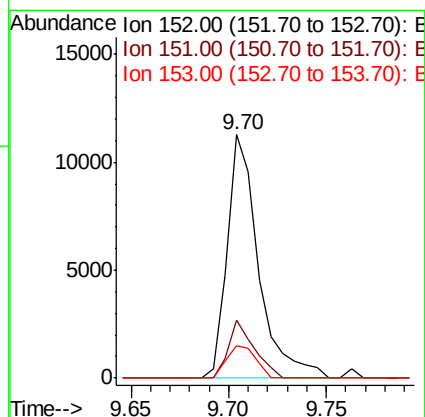
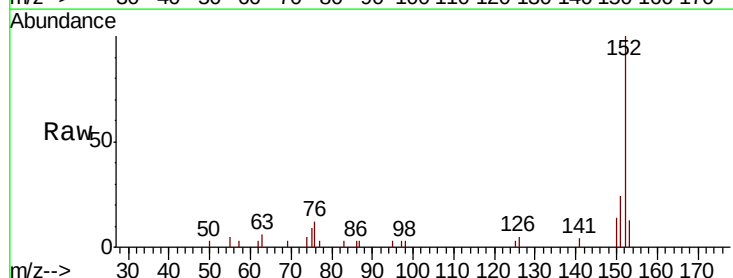
Instrument :
 BNA_F
 ClientSampleId :

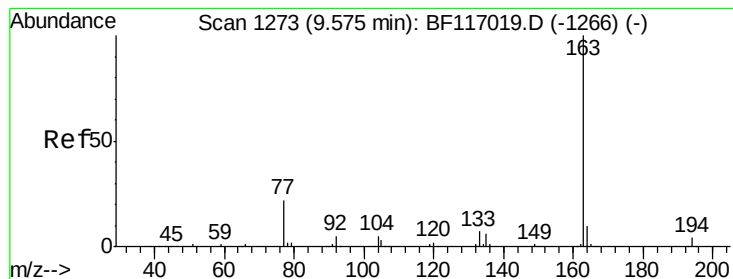
Tot Ion:172 Resp: 95688
 Ion Ratio Lower Upper
 172 100
 171 33.9 28.2 42.2
 170 22.5 18.9 28.3



#49
 Acenaphthylene
 Concen: 3.365 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.01 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

Tgt Ion:152 Resp: 12558
 Ion Ratio Lower Upper
 152 100
 151 23.9 16.2 24.2
 153 13.5 10.2 15.4





#50

Dimethylphthalate

Concen: 3.216 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA_F

ClientSampleId :

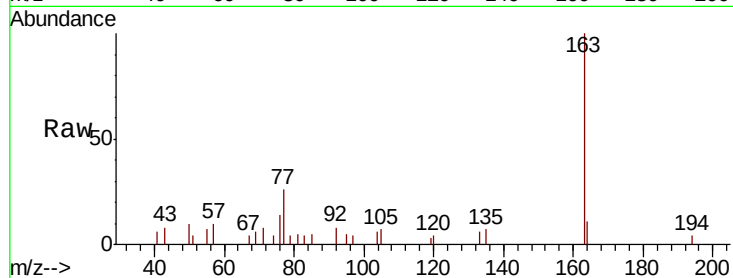
Tot Ion:163 Resp: 9162

Ion Ratio Lower Upper

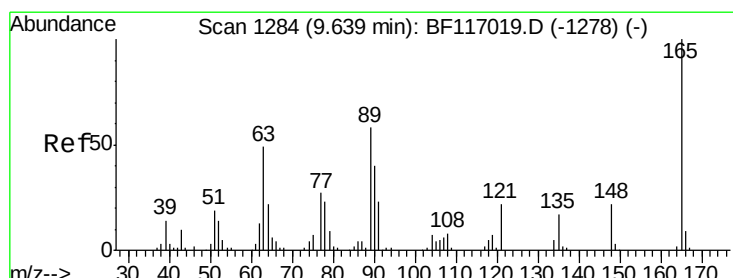
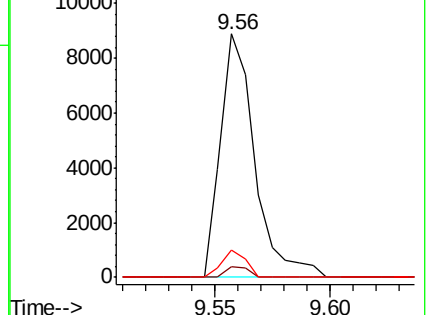
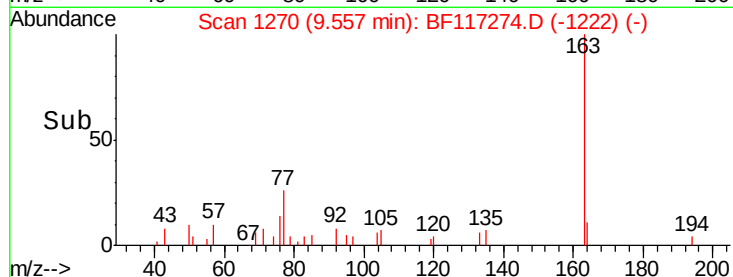
163 100

194 4.5 2.9 4.3#

164 11.1 8.2 12.4



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: 9.849 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.20 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

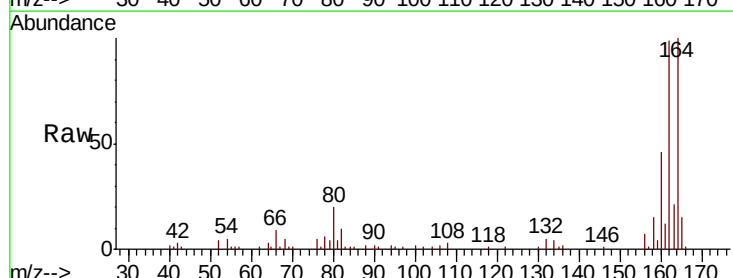
Tgt Ion:165 Resp: 5715

Ion Ratio Lower Upper

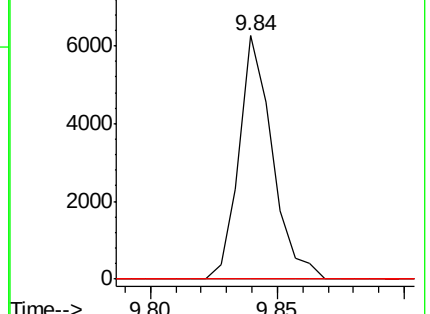
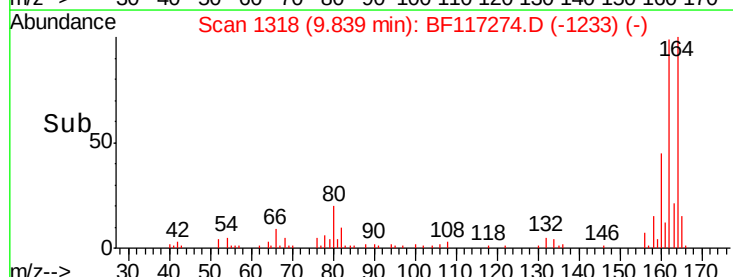
165 100

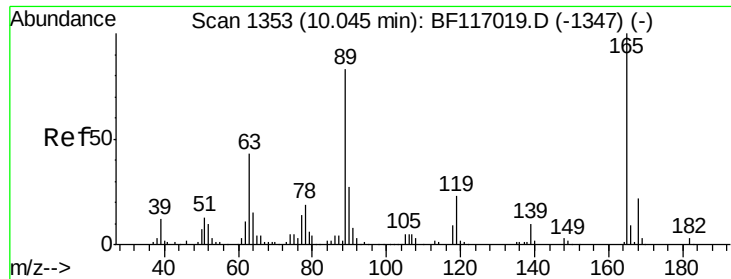
63 0.0 41.8 62.8#

89 0.0 46.5 69.7#



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

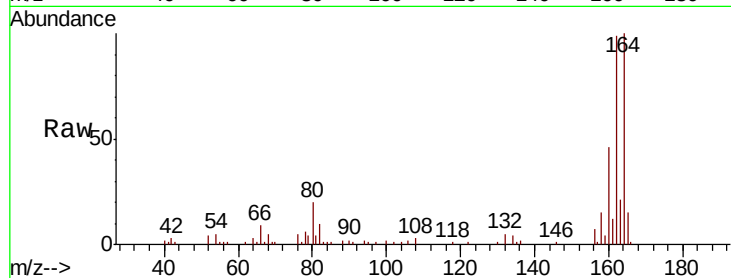




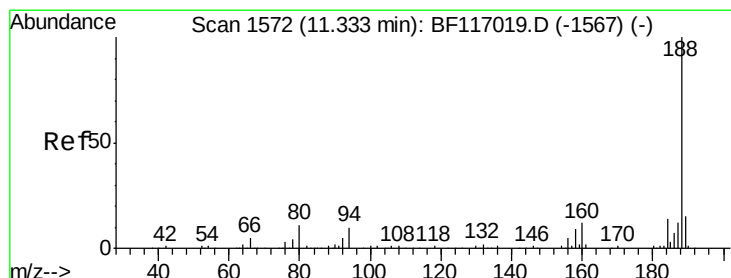
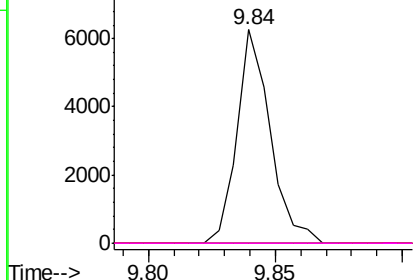
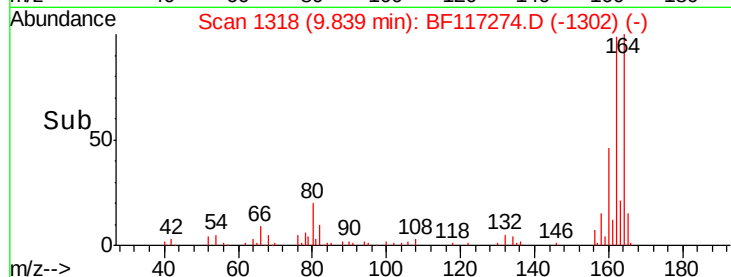
#57
 2,4-Dinitrotoluene
 Concen: 7.587 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.21 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 5715
 Ion Ratio Lower Upper
 165 100
 63 0.0 35.0 52.4#
 89 0.0 66.1 99.1#
 182 0.0 2.0 3.0#

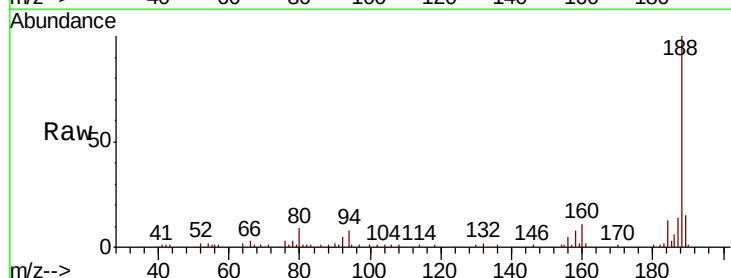


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

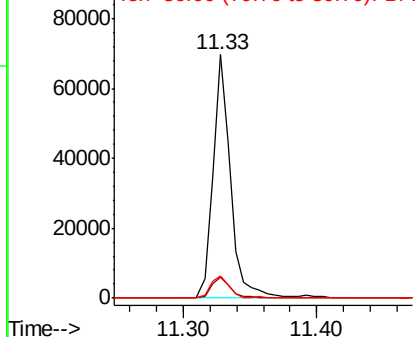
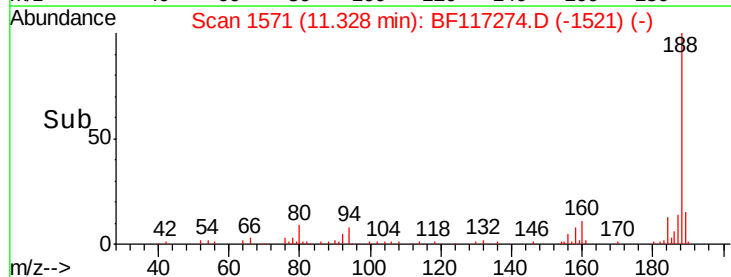


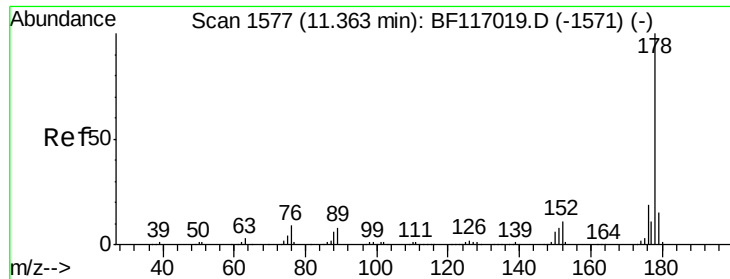
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

Tgt Ion:188 Resp: 64802
 Ion Ratio Lower Upper
 188 100
 94 8.5 8.2 12.2
 80 9.2 9.0 13.6



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

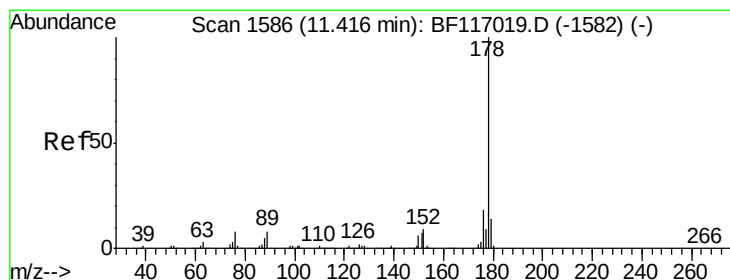
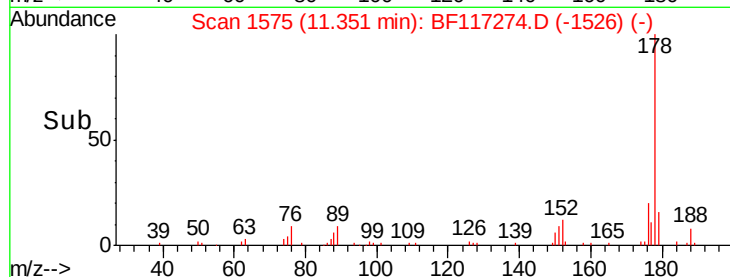
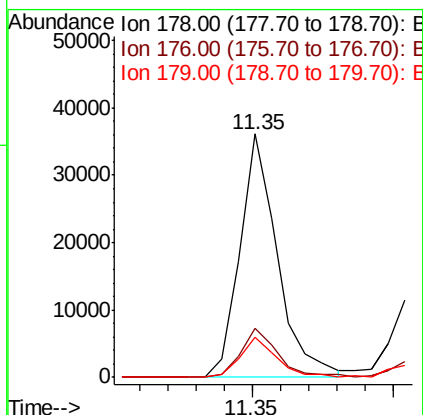
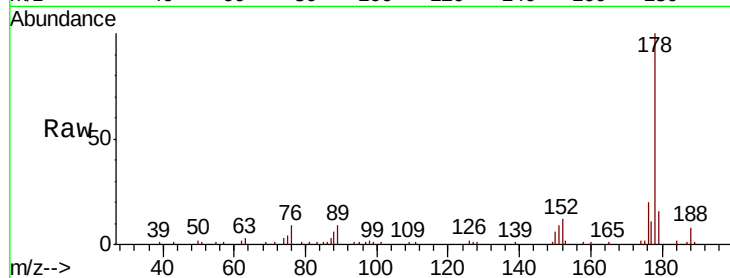




#71
Phenanthrene
Concen: 9.041 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

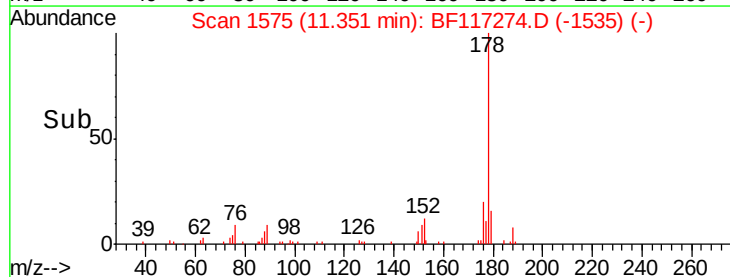
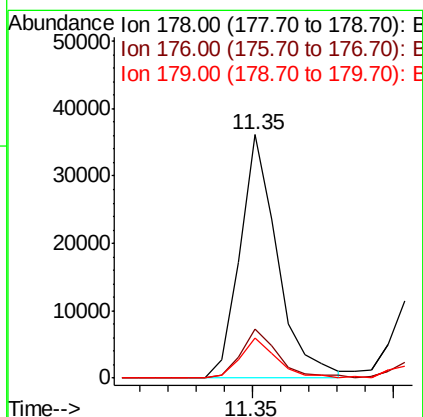
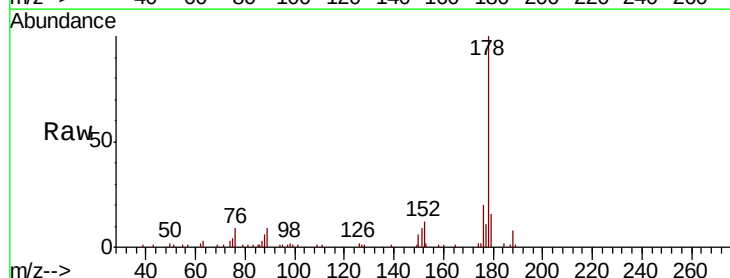
Instrument :
BNA_F
ClientSampled :

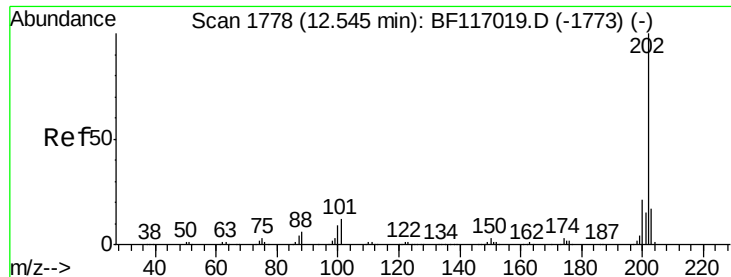
Tot Ion:178 Resp: 33279
Ion Ratio Lower Upper
178 100
176 20.4 15.4 23.2
179 16.5 12.4 18.6



#72
Anthracene
Concen: 8.856 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.06 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion:178 Resp: 33279
Ion Ratio Lower Upper
178 100
176 20.4 14.6 21.8
179 16.5 11.6 17.4





#75

Fluoranthene

Concen: 32.489 ng

RT: 12.55 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BF117274.D

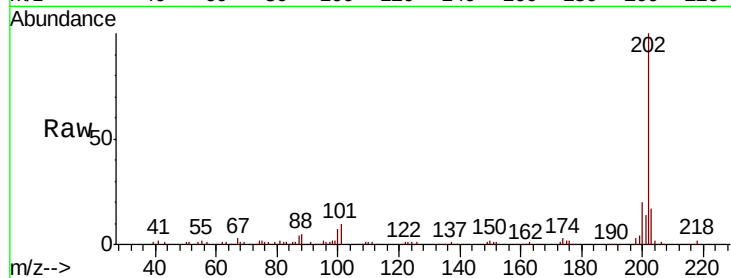
Acq: 30 Sep 2019 21:21

Instrument :

BNA_F

ClientSampleId :

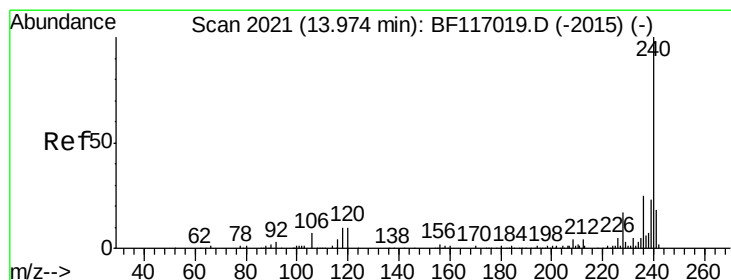
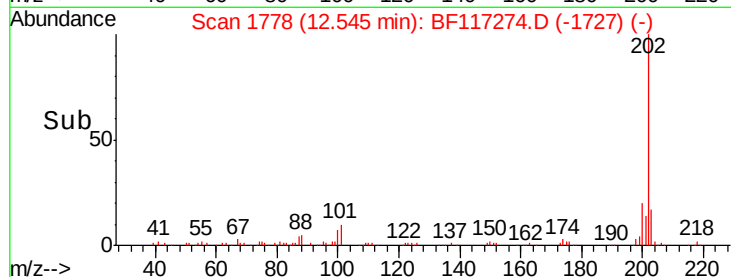
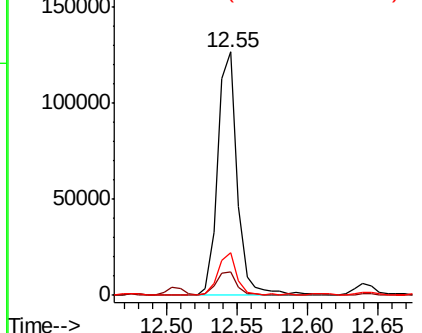
Tot Ion:	202	Resp:	122871
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	32.3
203	17.3	0.0	37.1



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

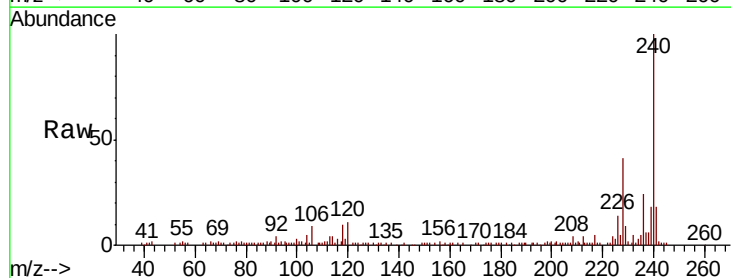
RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

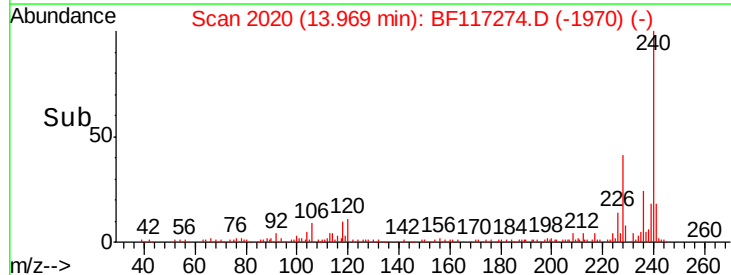
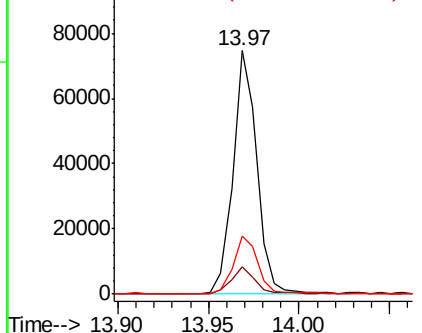
Tgt Ion:	240	Resp:	68538
Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.3	12.5
236	23.8	20.3	30.5

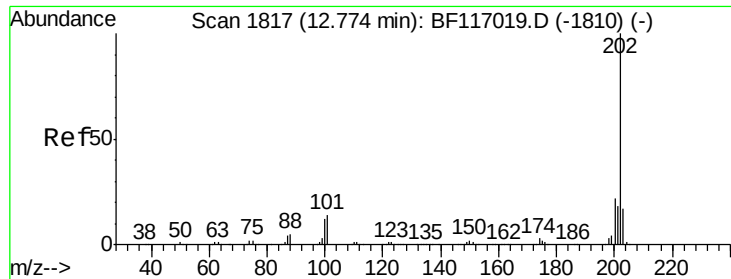


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

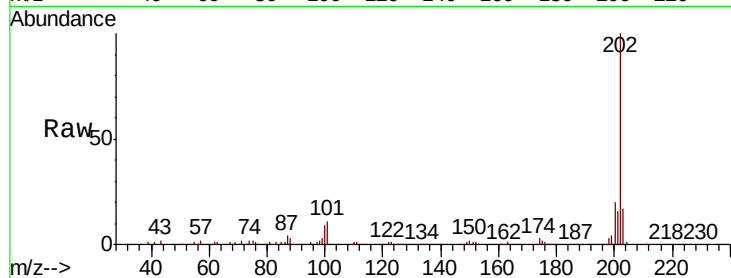




#78
Pvrene
Concen: 21.497 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.00 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.7	17.2	25.8
203	17.4	14.0	21.0

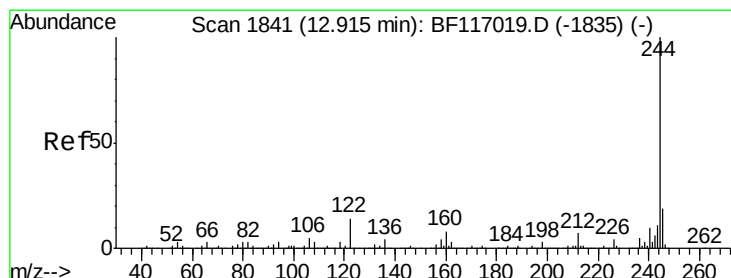
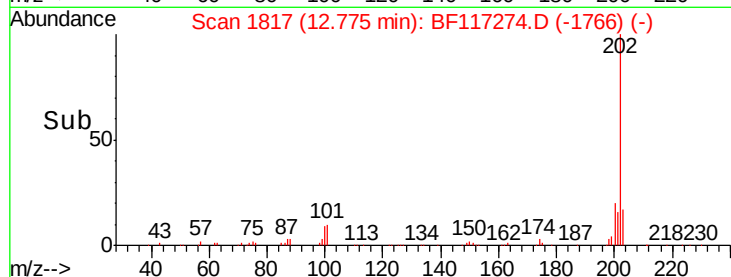
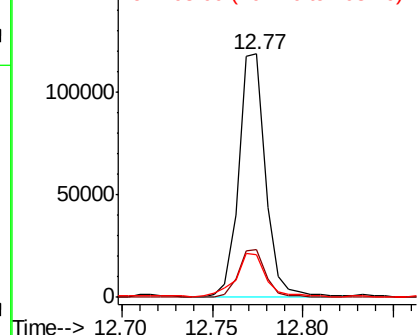


Abundance

Ion 202.00 (201.70 to 202.70): E

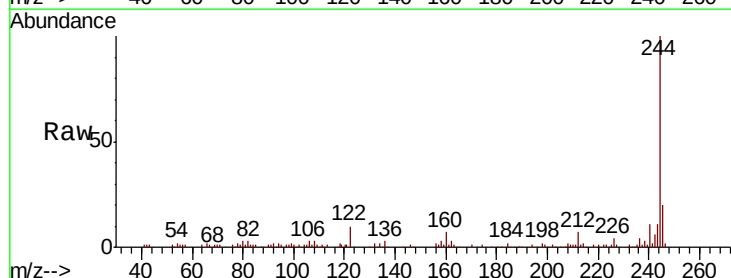
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 27.241 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.0	11.3	16.9

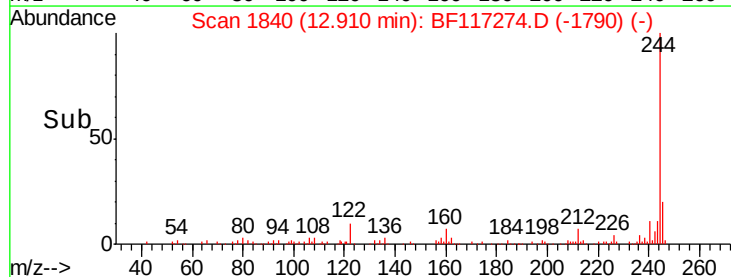
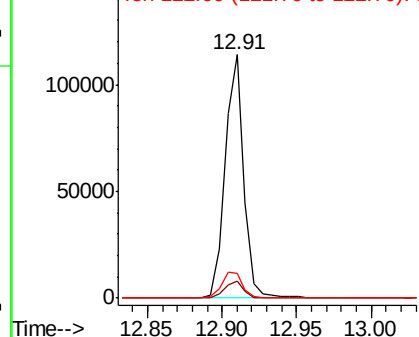


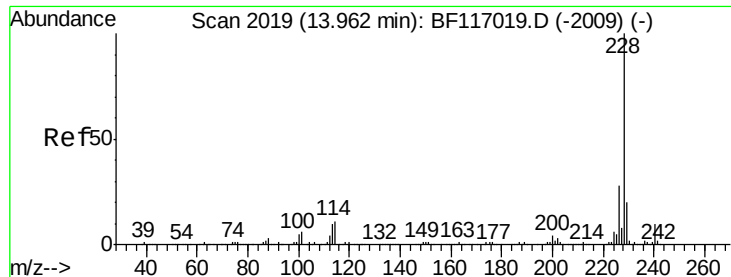
Abundance

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: 17.269 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

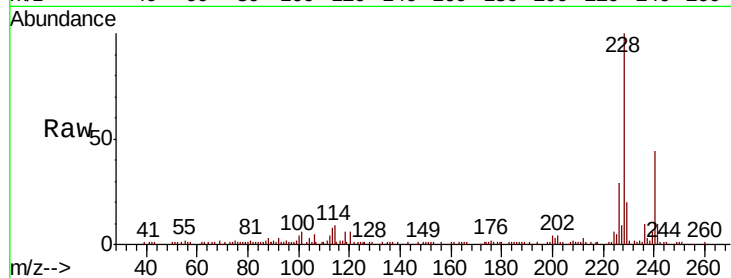
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 79076

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.3	33.5
229	20.2	15.9	23.9

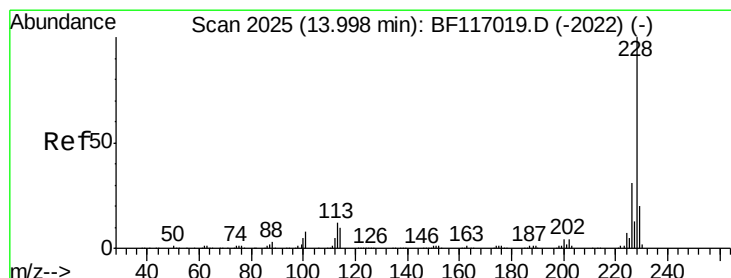
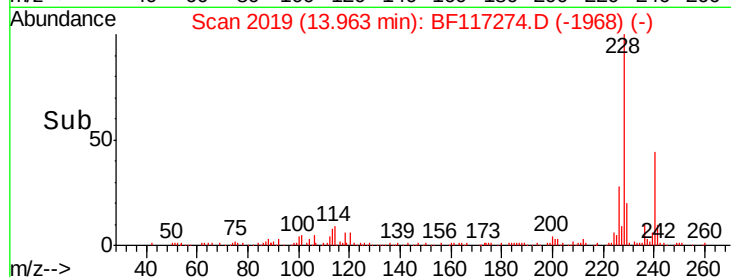
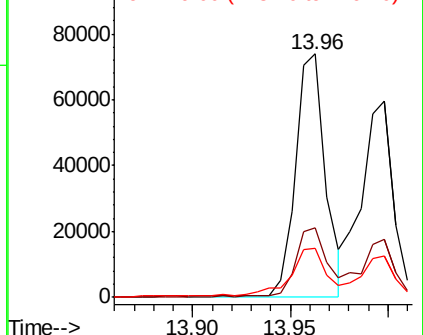


Abundance

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: 15.316 ng

RT: 14.00 min Scan# 2025

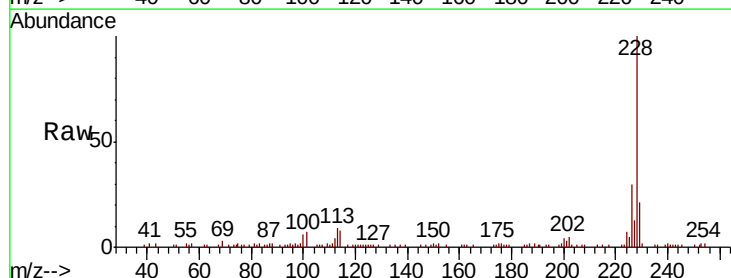
Delta R.T. 0.00 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Tgt Ion:228 Resp: 68401

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.8	37.2
229	20.9	15.8	23.8

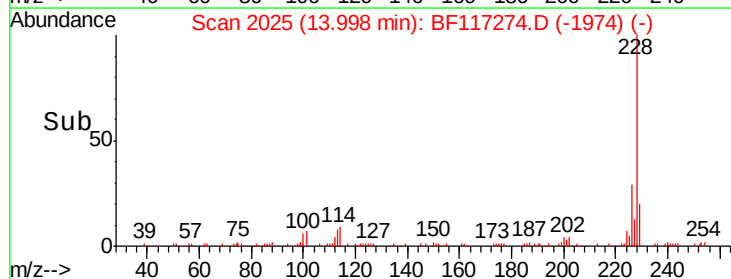
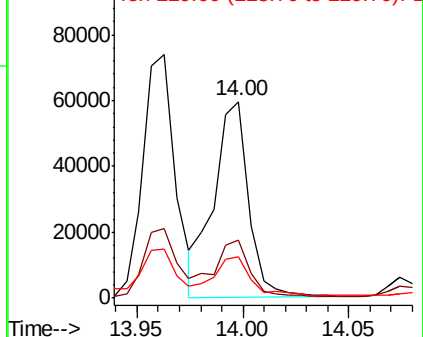


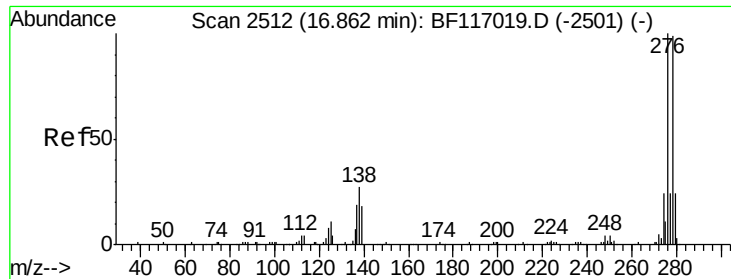
Abundance

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

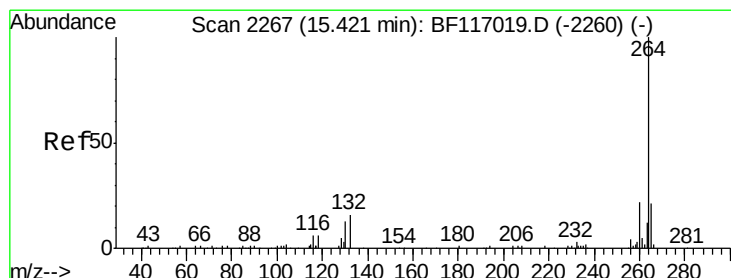
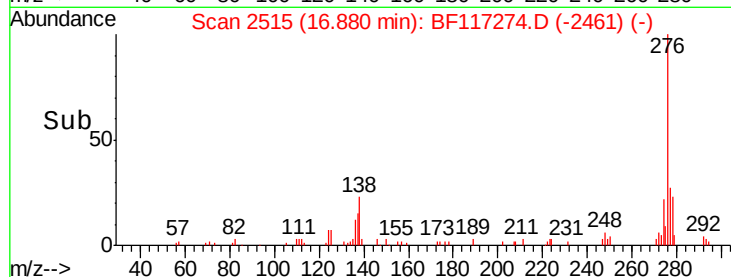
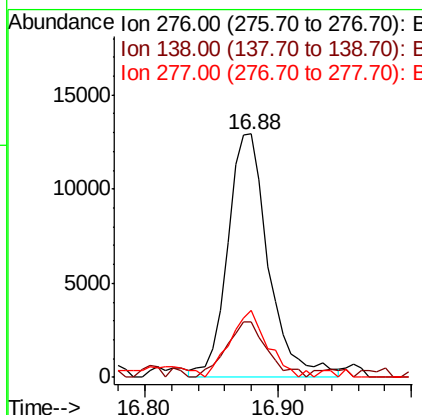
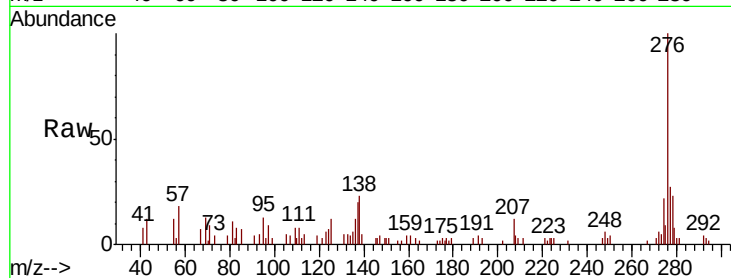




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.456 ng
 RT: 16.88 min Scan# 2515
 Delta R.T. 0.02 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

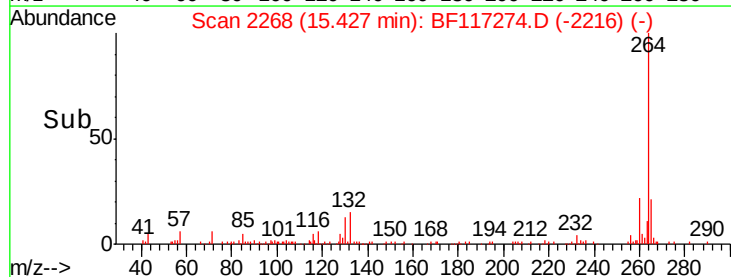
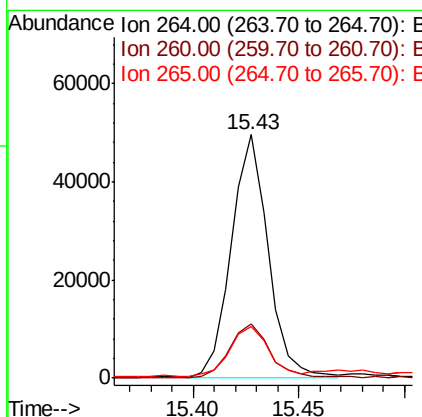
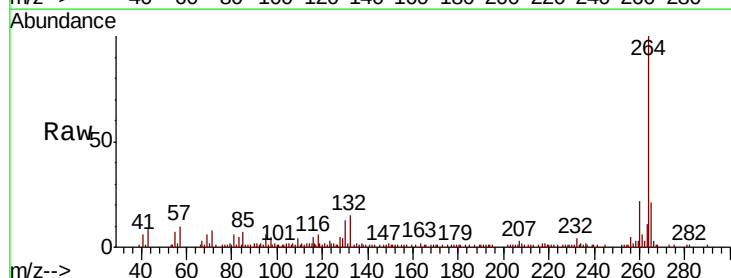
Instrument :
 BNA_F
 ClientSampleId :

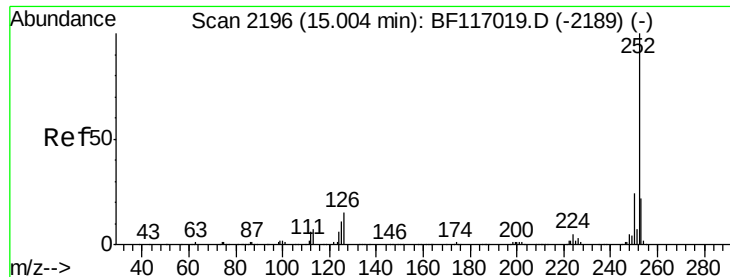
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.7	31.1
277	24.7	19.8	29.8



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2268
 Delta R.T. 0.01 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.2	17.6	26.4
265	21.3	16.6	24.8

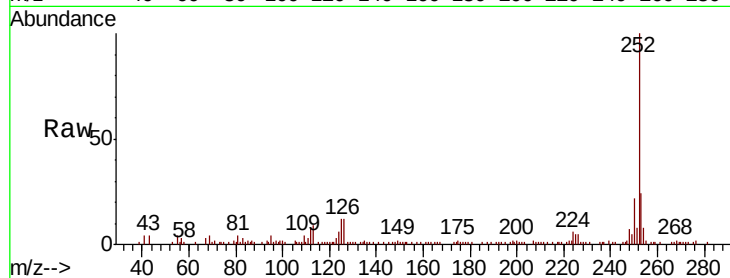




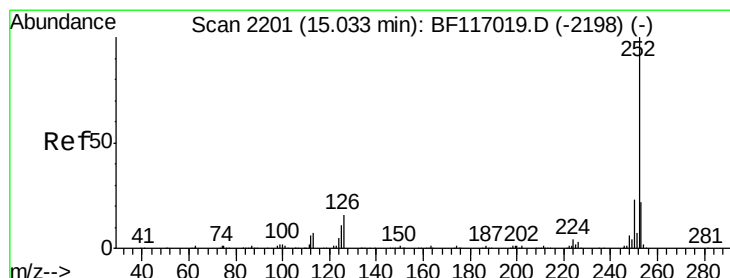
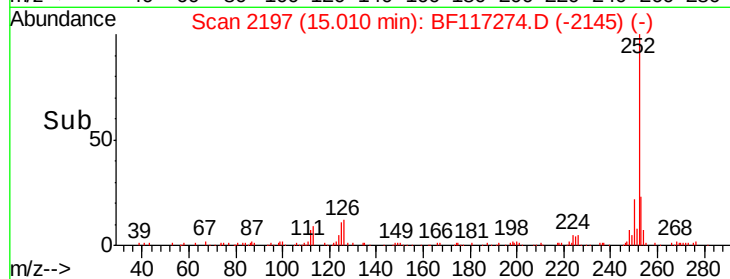
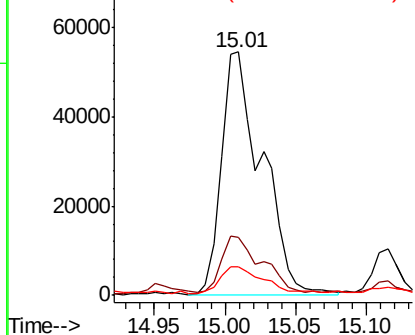
#88
Benzo(b)fluoranthene
Concen: 30.110 ng
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	12.0	8.6	12.8

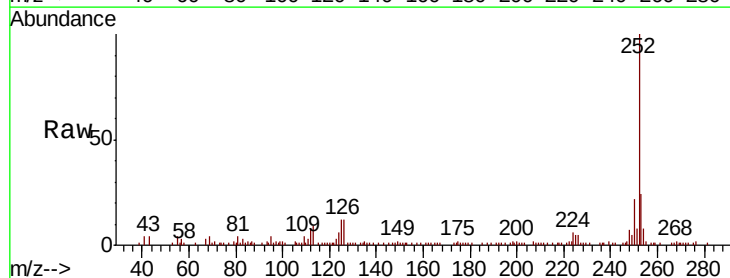


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

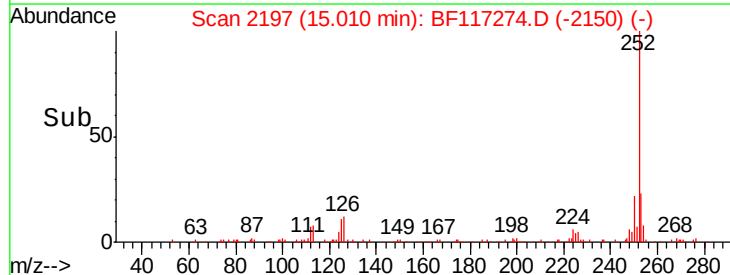
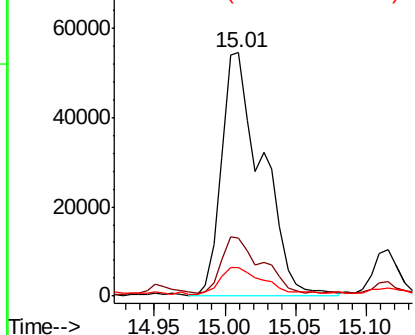


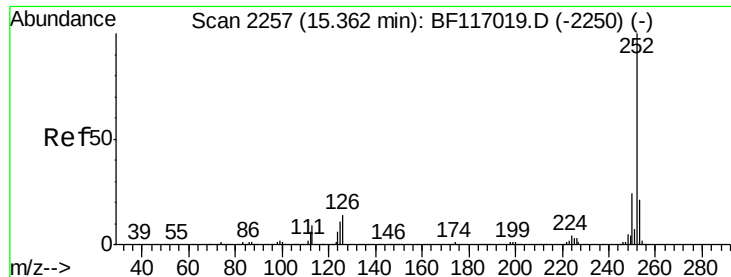
#89
Benzo(k)fluoranthene
Concen: 31.786 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.02 min
Lab File: BF117274.D
Acq: 30 Sep 2019 21:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.2
125	12.0	8.8	13.2



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





#90

Benzo(a)pyrene

Concen: 16.681 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA_F

ClientSampleId :

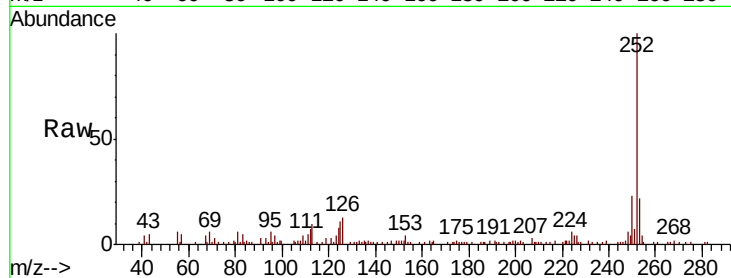
Tot Ion:252 Resp: 53403

Ion Ratio Lower Upper

252 100

253 22.2 16.6 25.0

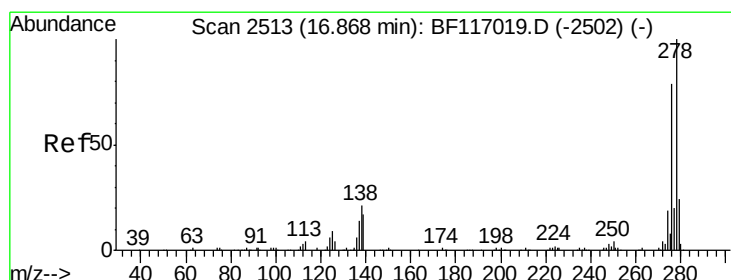
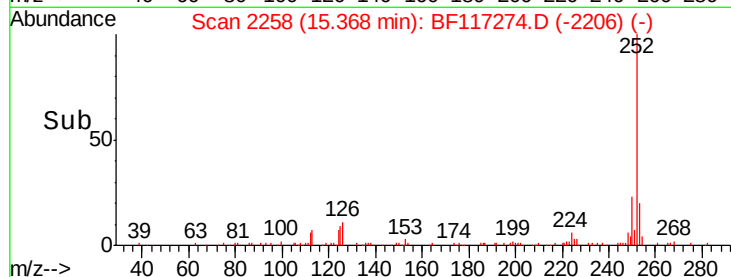
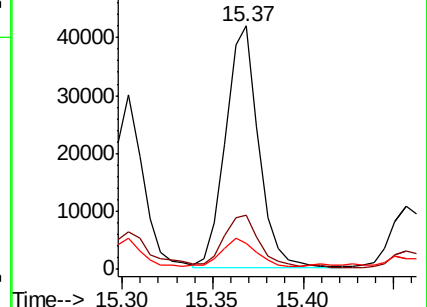
125 10.7 8.9 13.3



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



#91

Dibenzo(a,h)anthracene

Concen: 3.436 ng

RT: 16.87 min Scan# 2514

Delta R.T. 0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

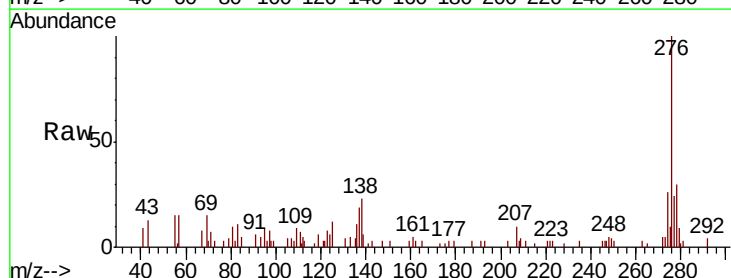
Tgt Ion:278 Resp: 8763

Ion Ratio Lower Upper

278 100

139 19.9 13.5 20.3

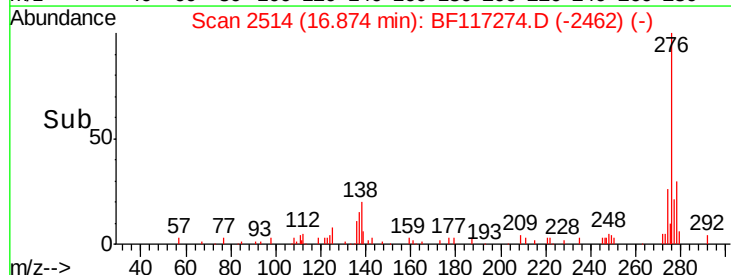
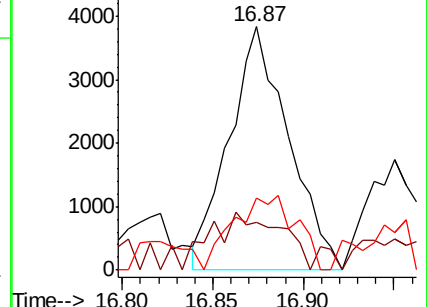
279 29.6 18.8 28.2#

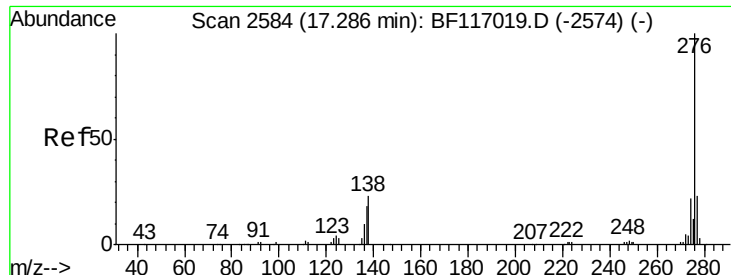


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 9.005 ng
 RT: 17.32 min Scan# 2589
 Delta R.T. 0.03 min
 Lab File: BF117274.D
 Acq: 30 Sep 2019 21:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	27.8
138	18.9	18.0	27.0

