

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091119\
 Data File : BF116971.D
 Acq On : 12 Sep 2019 2:27
 Operator : HP/JU
 Sample : K4814-02 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 12 07:08:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

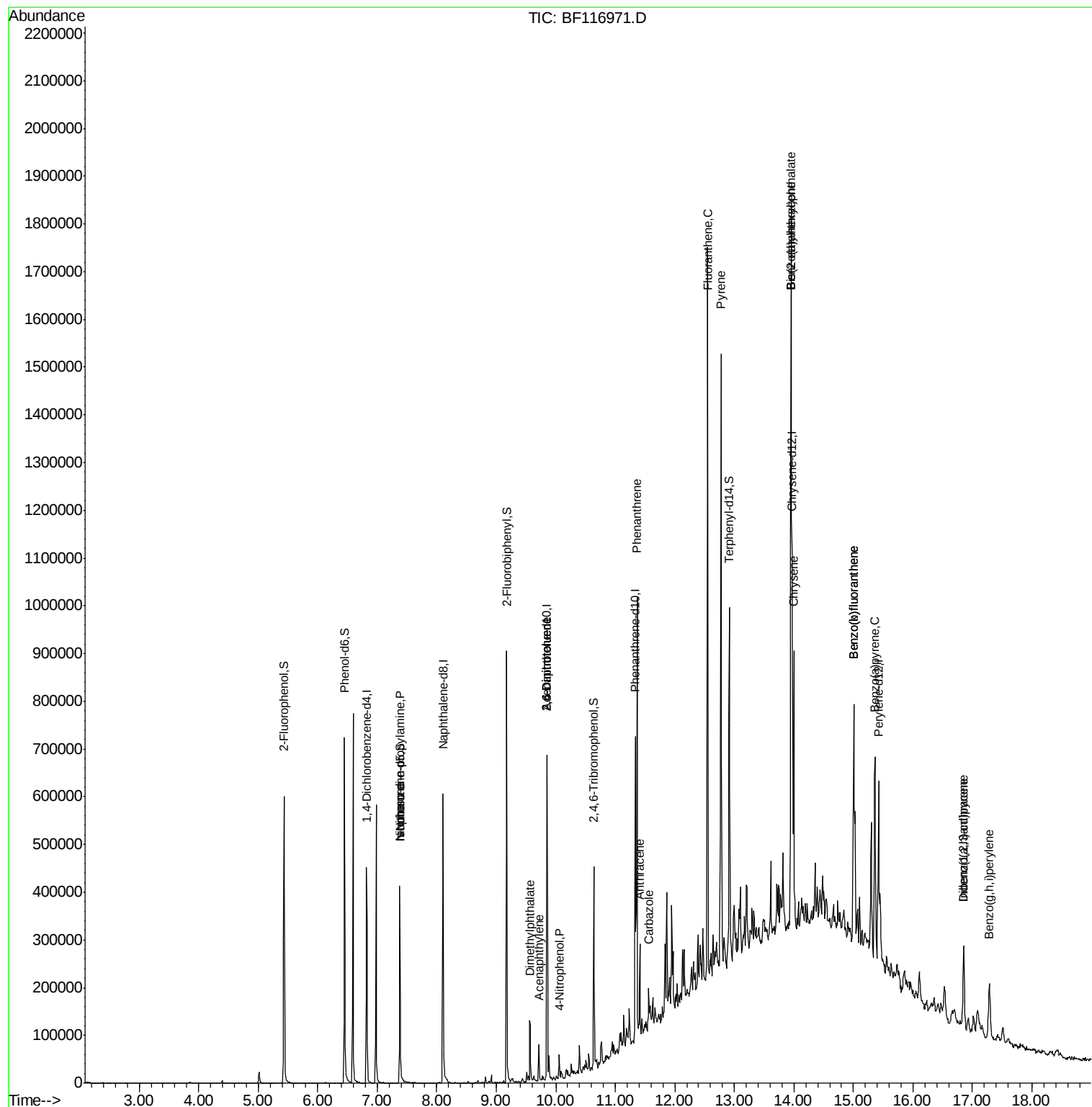
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	68139	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	286206	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	146802	20.00	ng	-0.02
64) Phenanthrene-d10	11.34	188	238973	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	151062	20.00	ng	-0.01
87) Perylene-d12	15.42	264	167538	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	172654	41.05	ng	-0.02
7) Phenol-d6	6.45	99	246559	44.64	ng	-0.02
23) Nitrobenzene-d5	7.38	82	147691	29.46	ng	-0.02
42) 2,4,6-Tribromophenol	10.64	330	40919	41.69	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	257643	29.61	ng	-0.02
79) Terphenyl-d14	12.92	244	204676	25.07	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.38	70	19056	5.240	ng	Qvalue # 73
25) Isophorone	7.38	82	147690	14.538	ng	# 66
49) Acenaphthylene	9.72	152	32438	2.432	ng	98
50) Dimethylphthalate	9.56	163	51600	5.091	ng	99
51) 2,6-Dinitrotoluene	9.85	165	19211	9.935	ng	# 20
56) 4-Nitrophenol	10.06	139	6131	3.690	ng	# 10
57) 2,4-Dinitrotoluene	9.85	165	19211	8.125	ng	# 20
71) Phenanthrene	11.36	178	345433	25.967	ng	100
72) Anthracene	11.41	178	72905	5.444	ng	98
73) Carbazole	11.56	167	30741	2.410	ng	98
75) Fluoranthene	12.55	202	569914	43.594	ng	99
78) Pylene	12.78	202	521896	38.865	ng	98
81) Benzo(a)anthracene	13.96	228	233971	24.472	ng	96
83) Chrysene	14.00	228	202318	20.540	ng	97
84) Bis(2-ethylhexyl)phthalate	13.95	149	377201	46.793	ng	98
86) Indeno(1,2,3-cd)pyrene	16.85	276	106012	13.400	ng	95
88) Benzo(b)fluoranthene	15.00	252	343290	33.891	ng	# 97
89) Benzo(k)fluoranthene	15.00	252	343290	37.171	ng	97
90) Benzo(a)pyrene	15.36	252	188302	21.368	ng	99
91) Dibenzo(a,h)anthracene	16.86	278	26439	3.428	ng	# 83
92) Benzo(g,h,i)perylene	17.29	276	94106	11.962	ng	98

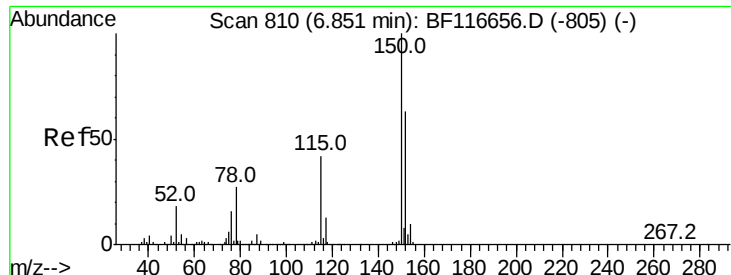
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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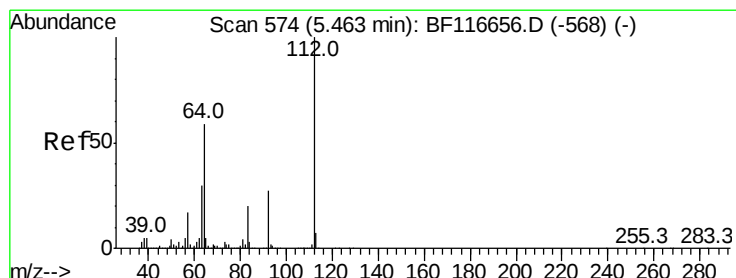
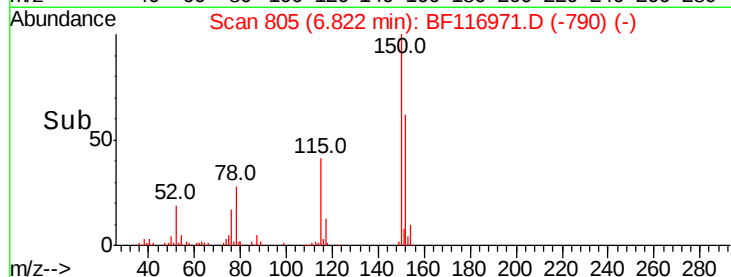
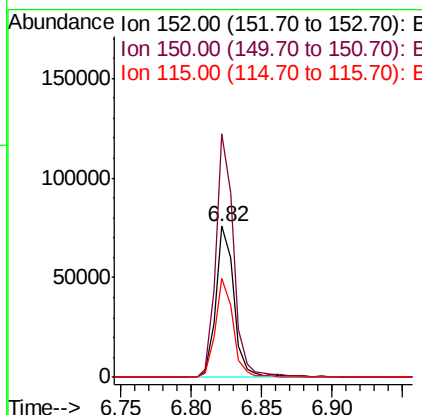
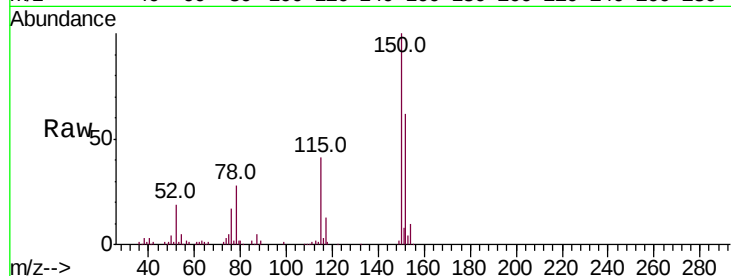


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Instrument :
BNA_F
ClientSampleId :

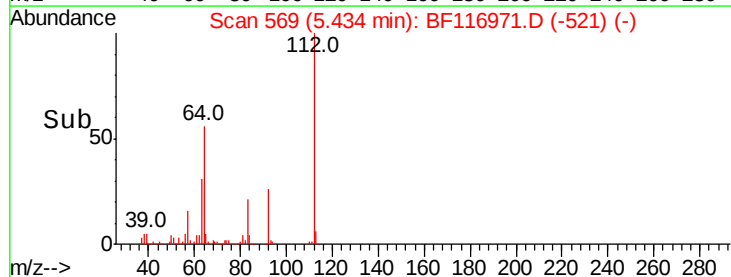
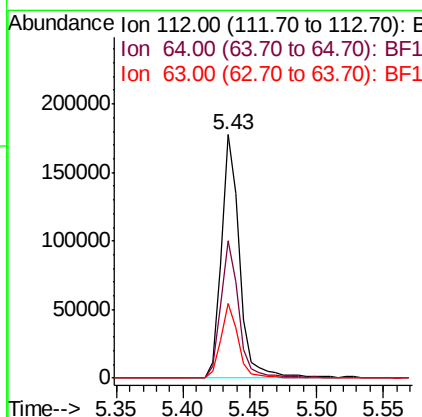
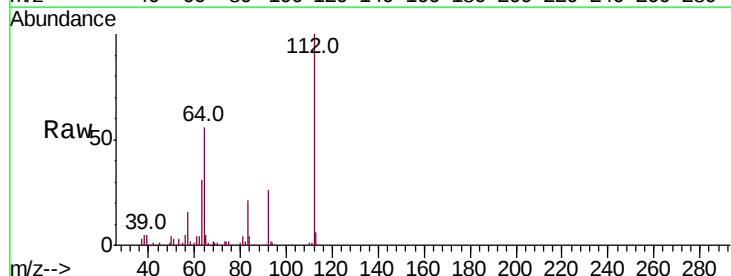
Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	124.4	186.6
115	65.9	49.9	74.9



#5

2-Fluorophenol
Concen: 41.050 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.02 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	47.1	70.7
63	30.7	24.9	37.3





#7

Phenol-d6

Concen: 44.643 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

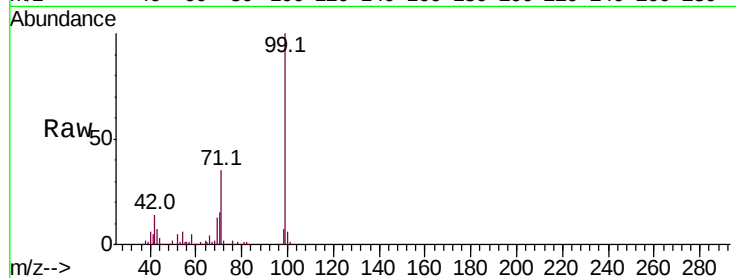
Tot Ion: 99 Resp: 246559

Ion Ratio Lower Upper

99 100

42 13.9 13.7 20.5

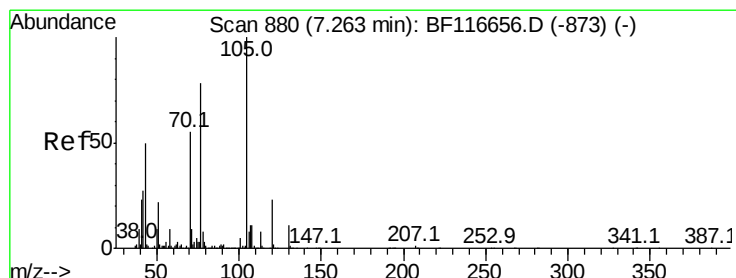
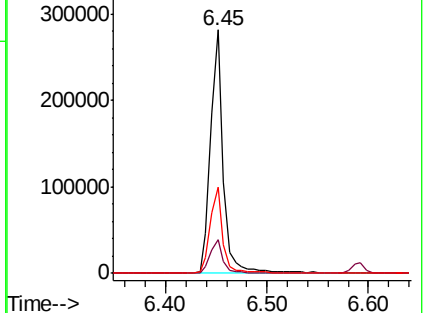
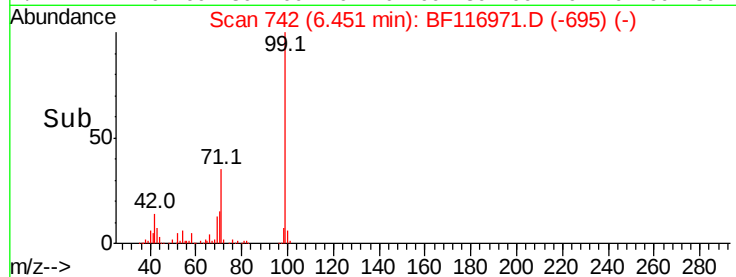
71 35.5 30.8 46.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 5.240 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.13 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Tgt Ion: 70 Resp: 19056

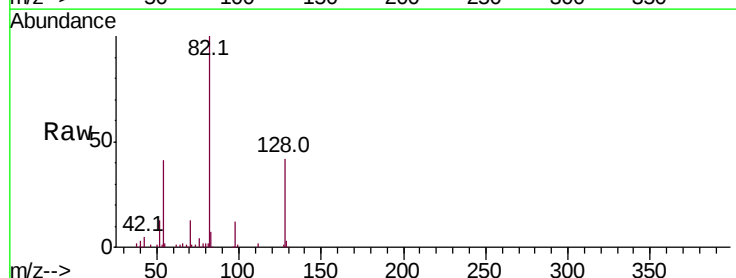
Ion Ratio Lower Upper

70 100

42 37.9 43.5 65.3#

101 0.0 7.8 11.6#

130 2.3 16.6 24.8#

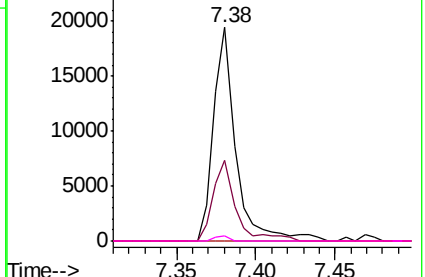
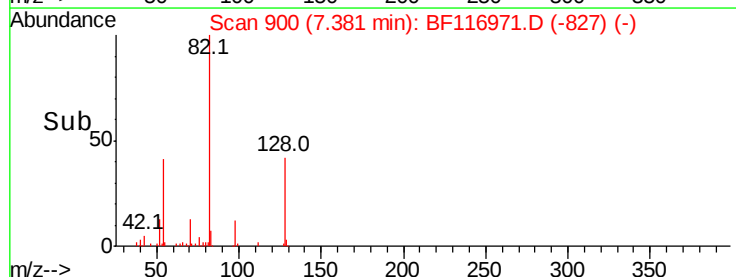


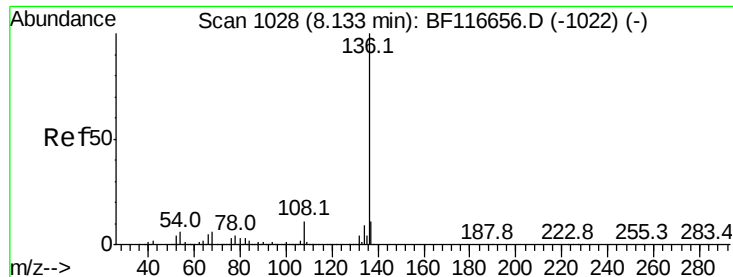
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

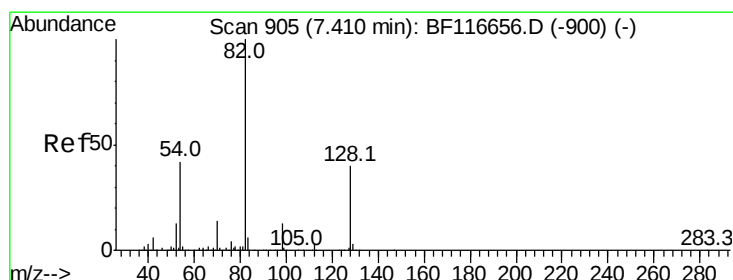
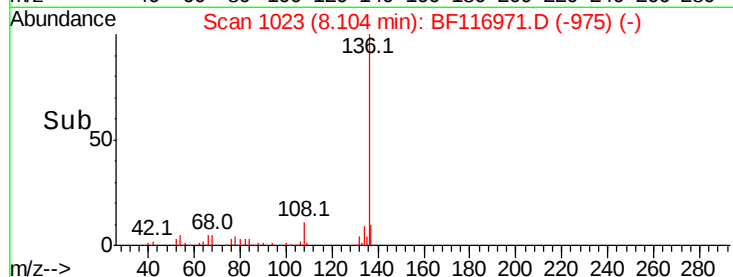
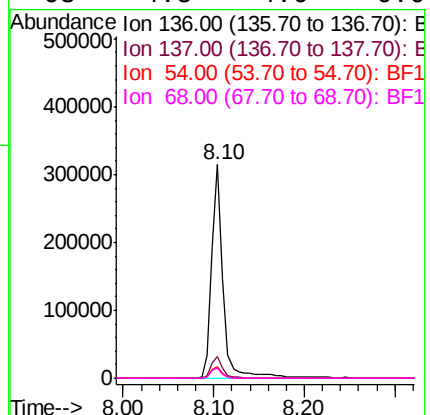
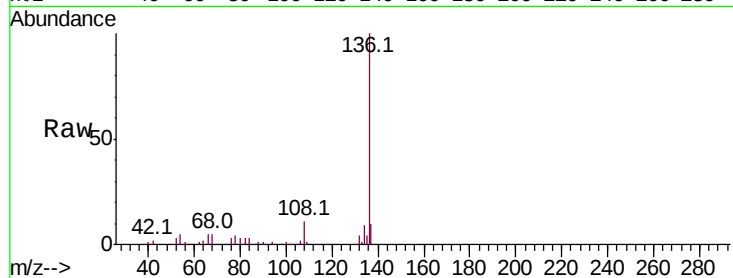




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

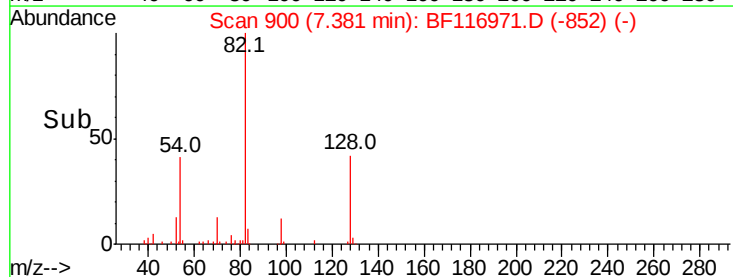
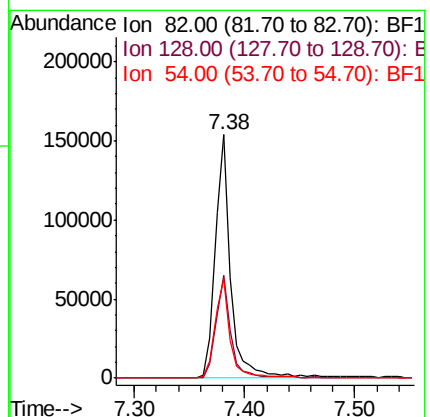
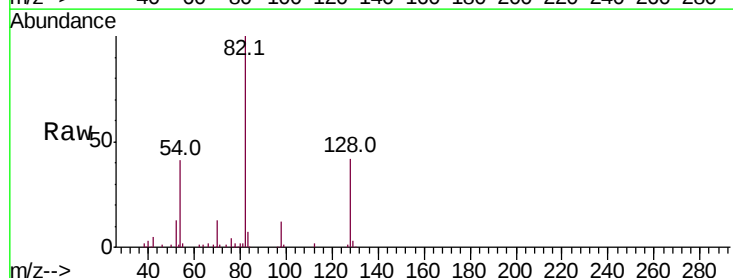
Instrument :
BNA_F
ClientSampled :

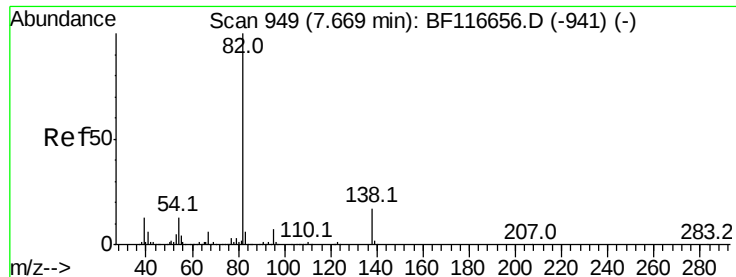
Tot Ion:	136	Resp:	286206
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.9	13.3
54	5.2	4.8	7.2
68	4.5	4.0	6.0



#23
Nitrobenzene-d5
Concen: 29.459 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.02 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion:	82	Resp:	147691
Ion	Ratio	Lower	Upper
82	100		
128	42.4	32.8	49.2
54	40.7	36.9	55.3





#25

Isophorone

Concen: 14.538 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.28 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

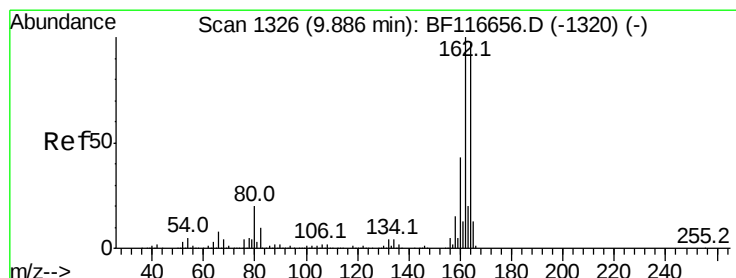
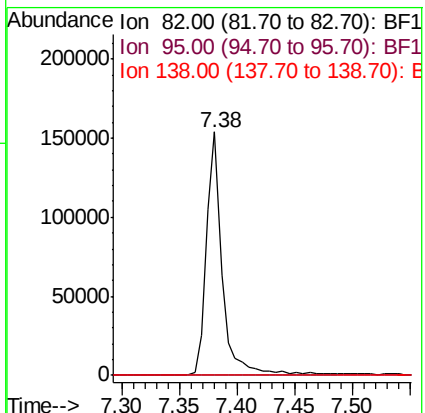
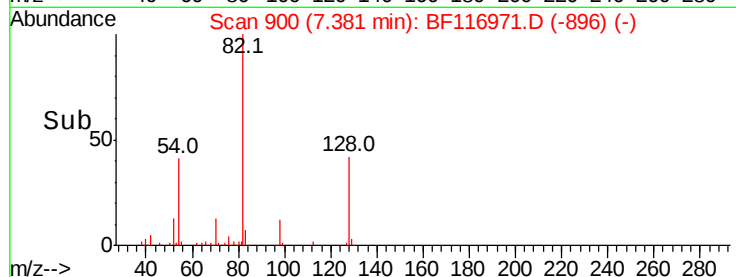
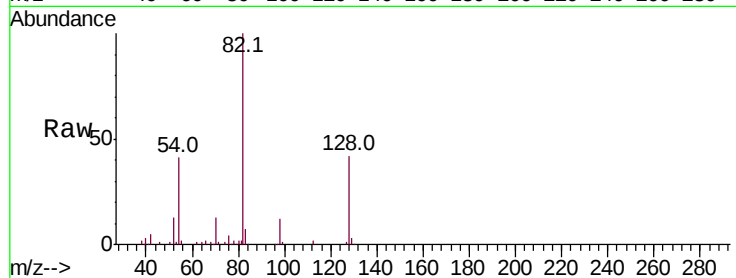
Tot Ion: 82 Resp: 147690

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.5 20.3#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

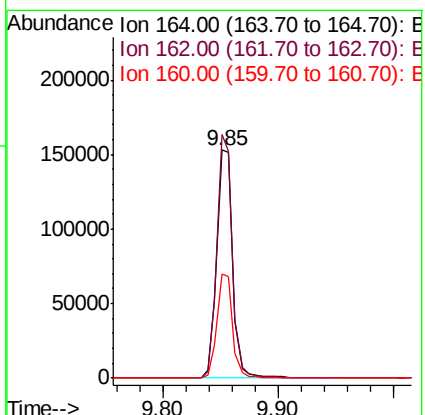
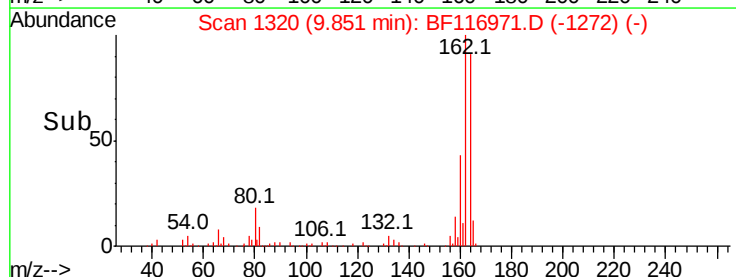
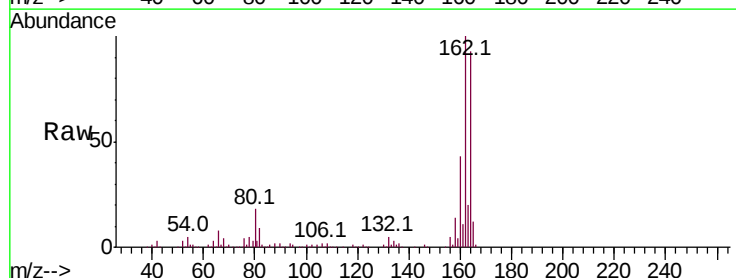
Tgt Ion: 164 Resp: 146802

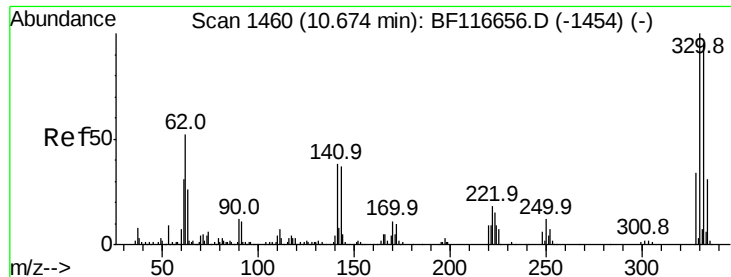
Ion Ratio Lower Upper

164 100

162 107.0 81.4 122.0

160 45.6 35.4 53.2

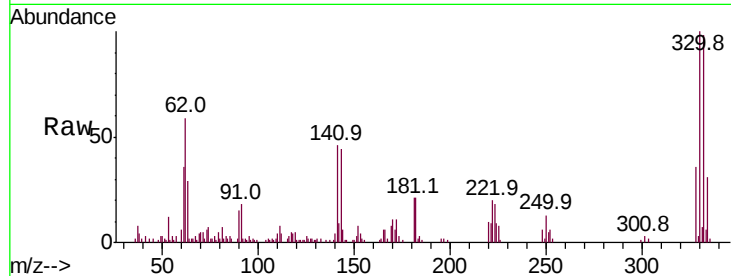




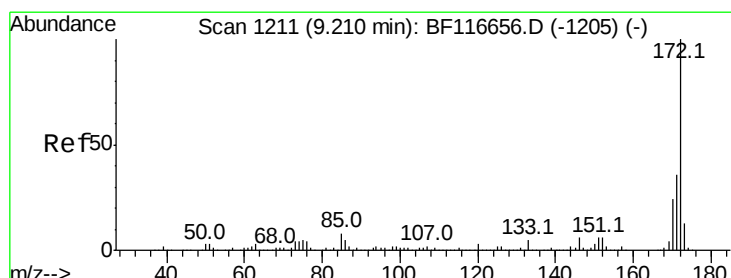
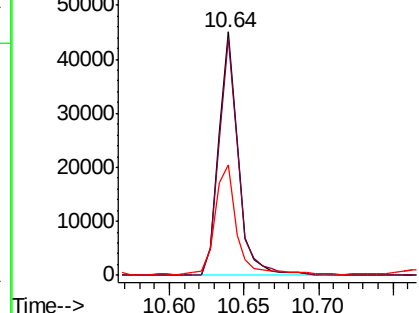
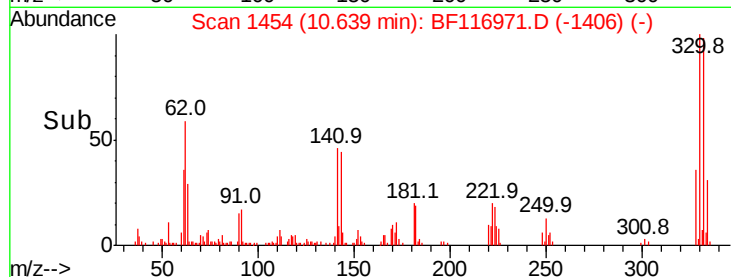
#42
 2,4,6-Tribromophenol
 Concen: 41.694 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: BF116971.D
 Acq: 12 Sep 2019 2:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 40919
 Ion Ratio Lower Upper
 330 100
 332 97.9 76.9 115.3
 141 52.8 31.4 47.2#

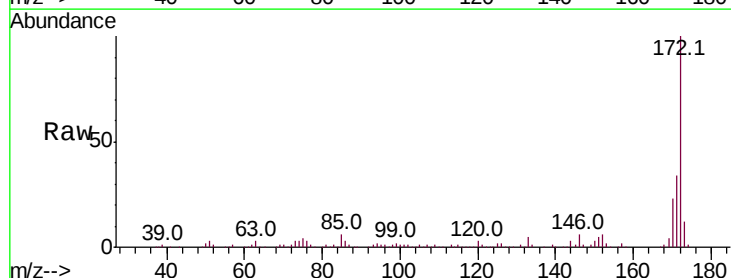


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

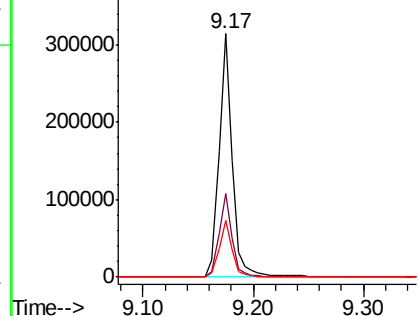
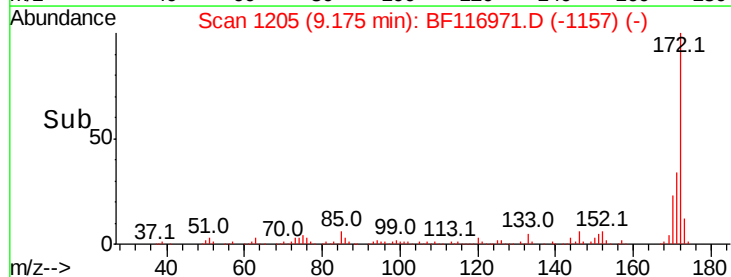


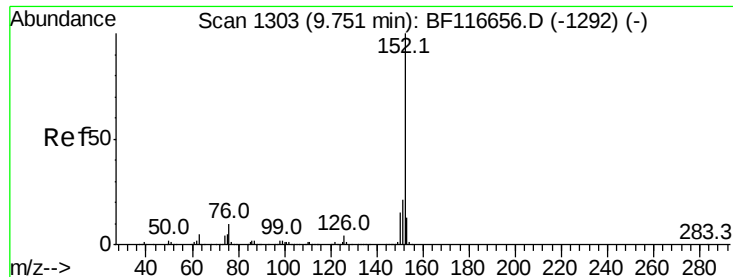
#45
 2-Fluorobiphenyl
 Concen: 29.606 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.02 min
 Lab File: BF116971.D
 Acq: 12 Sep 2019 2:27

Tgt Ion:172 Resp: 257643
 Ion Ratio Lower Upper
 172 100
 171 34.5 27.8 41.6
 170 23.5 18.9 28.3



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





#49

Acenaphthylene

Concen: 2.432 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

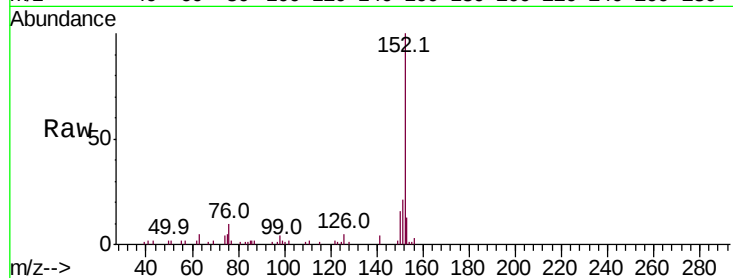
Tot Ion:152 Resp: 32438

Ion Ratio Lower Upper

152 100

151 21.2 15.9 23.9

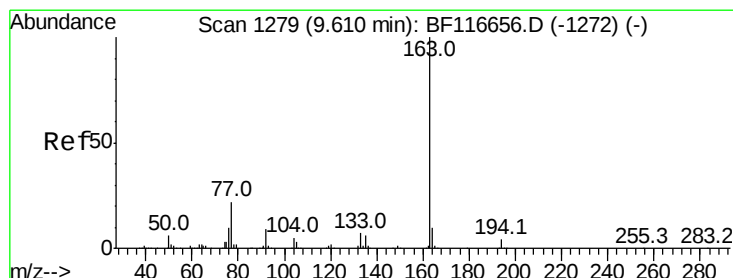
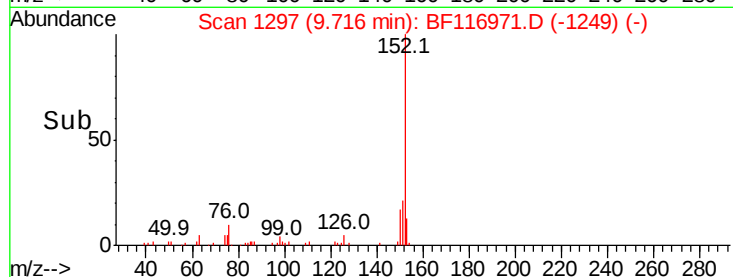
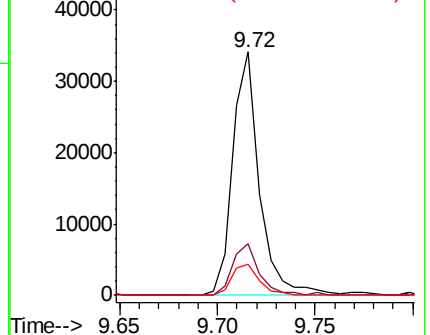
153 13.0 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.091 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.03 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

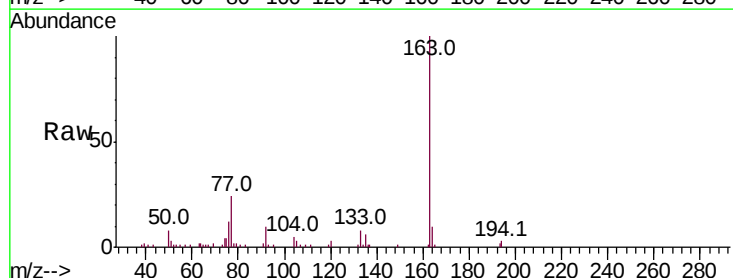
Tgt Ion:163 Resp: 51600

Ion Ratio Lower Upper

163 100

194 3.4 2.8 4.2

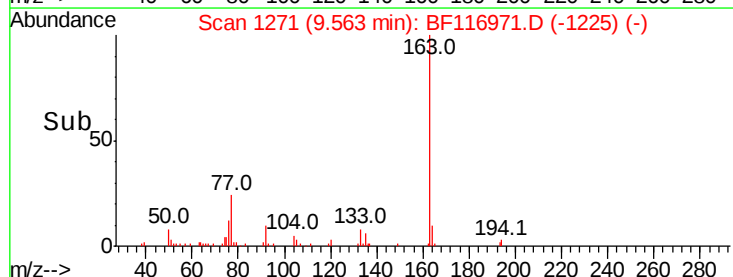
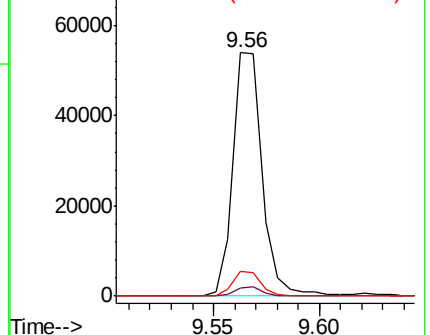
164 10.1 8.6 12.8

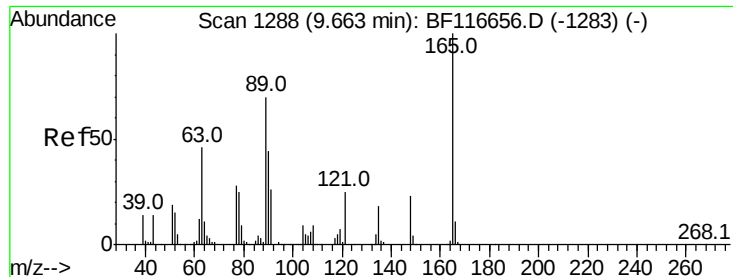


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

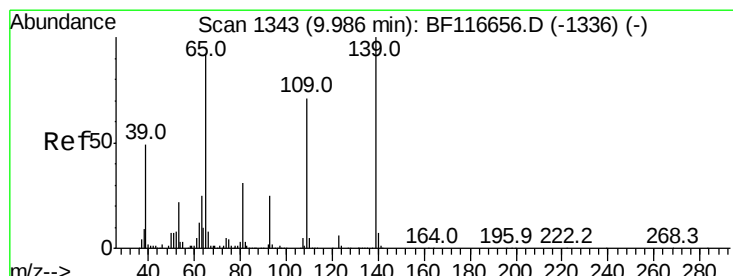
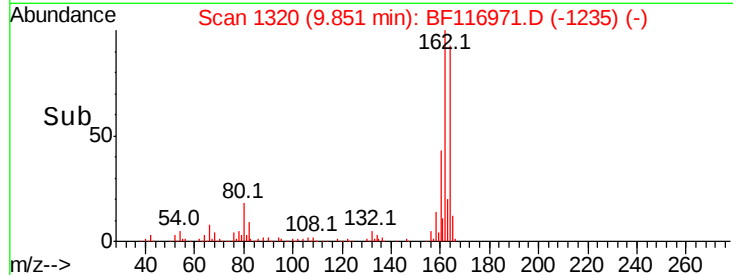
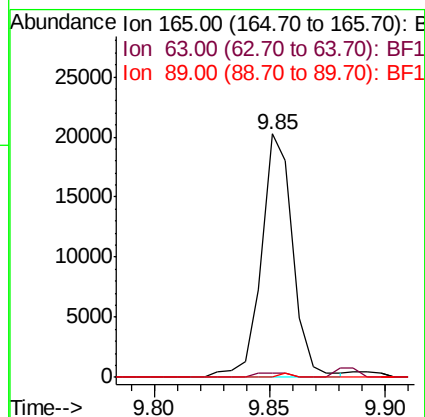
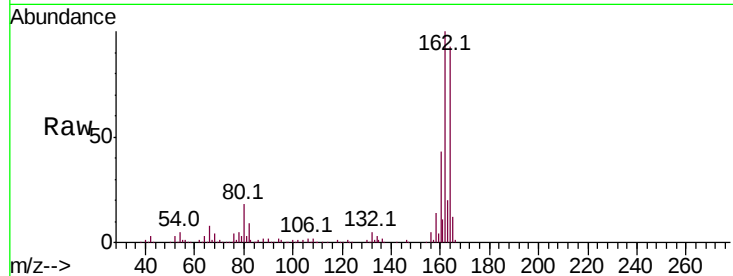




#51
2,6-Dinitrotoluene
Concen: 9.935 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.20 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

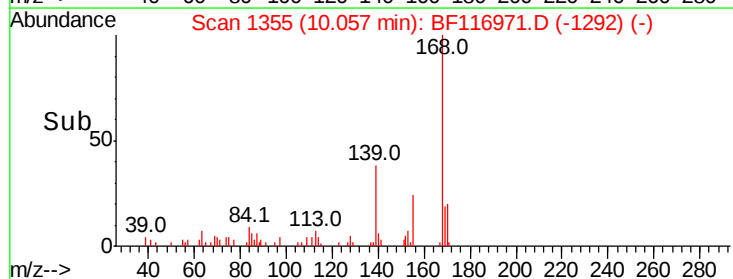
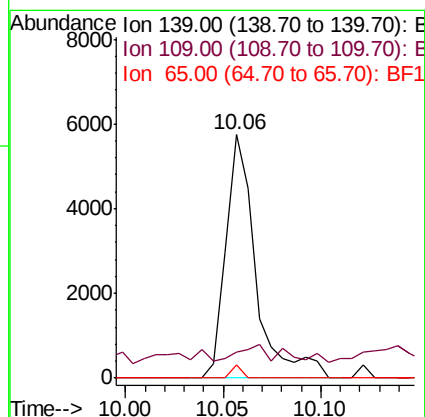
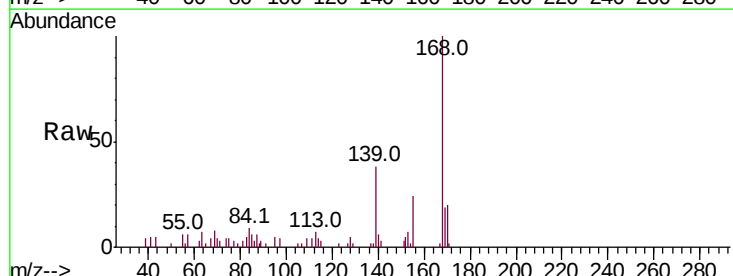
Instrument :
BNA_F
ClientSampled :

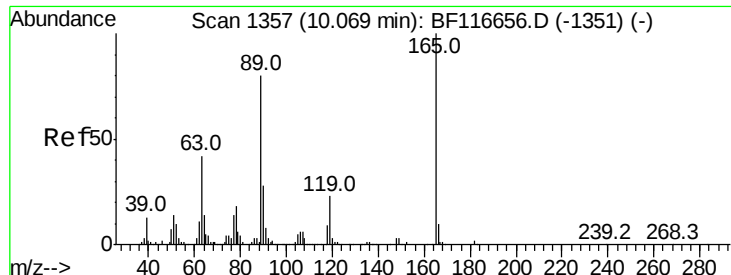
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	47.3	70.9#
89	0.0	52.5	78.7#



#56
4-Nitrophenol
Concen: 3.690 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.07 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
139	100		
109	10.6	61.7	101.7#
65	5.6	89.1	129.1#

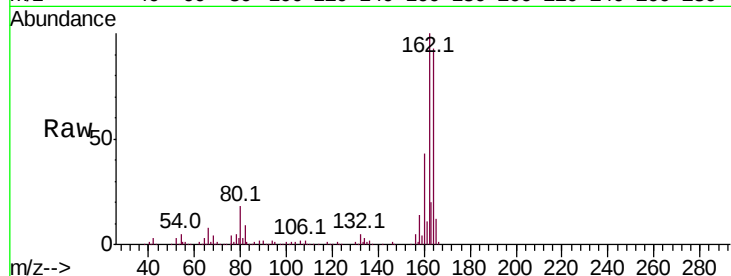




#57
2,4-Dinitrotoluene
Concen: 8.125 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.21 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	36.4	54.6#
89	0.0	62.6	94.0#
182	0.0	2.1	3.1#



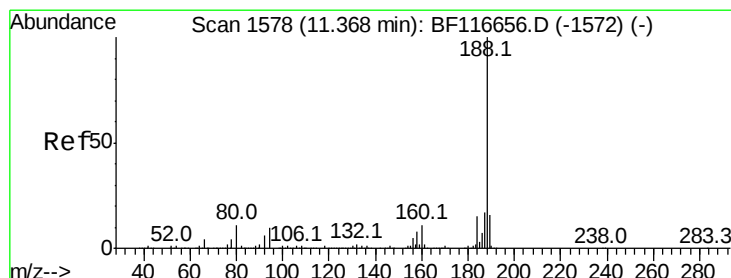
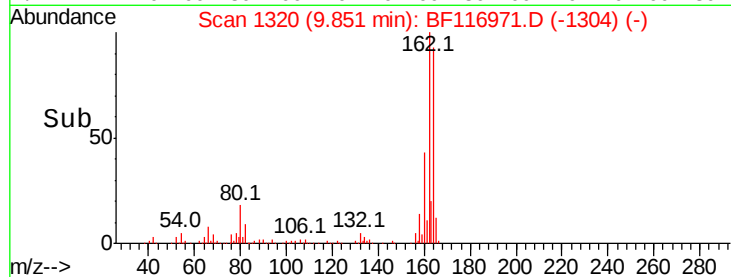
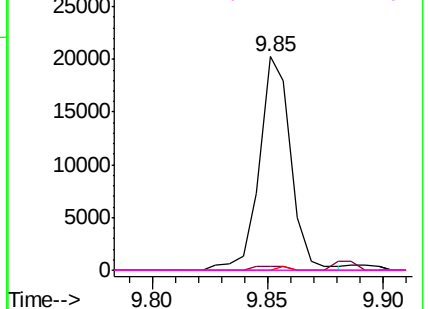
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

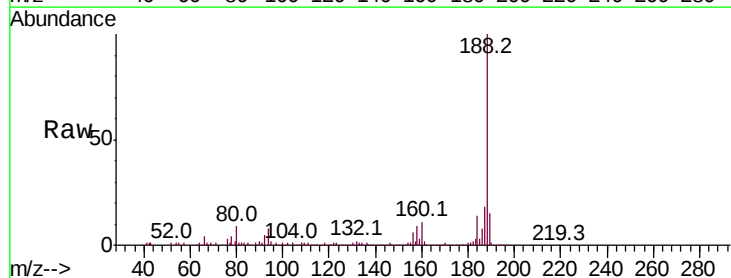
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	7.3	10.9
80	9.0	8.4	12.6

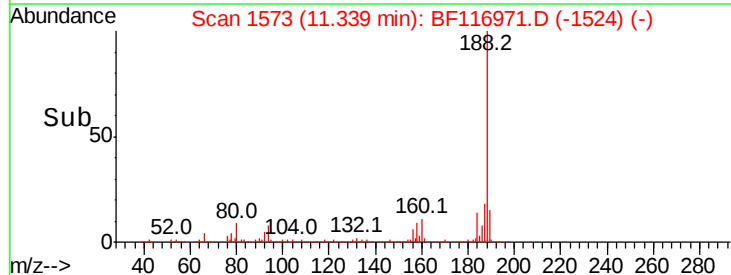
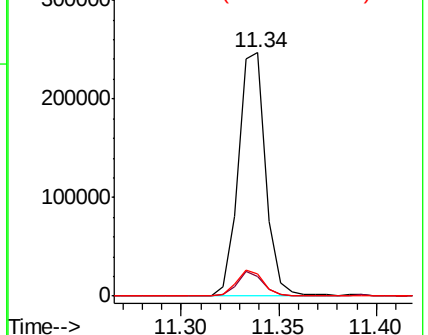


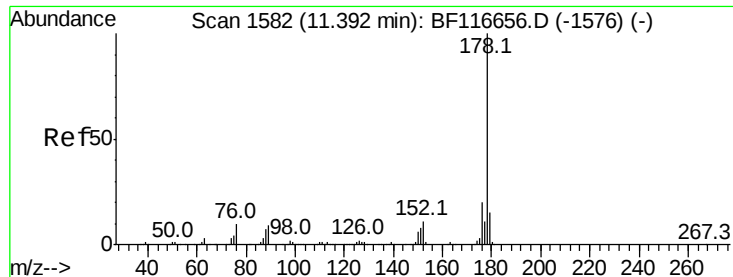
Abundance

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

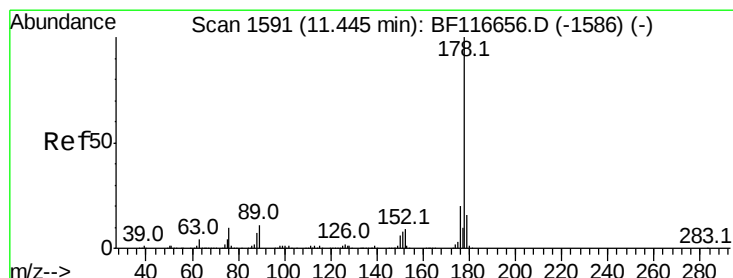
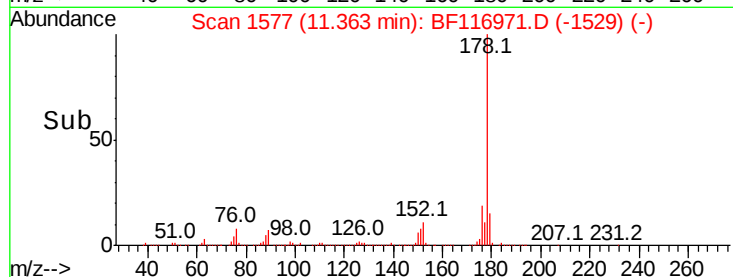
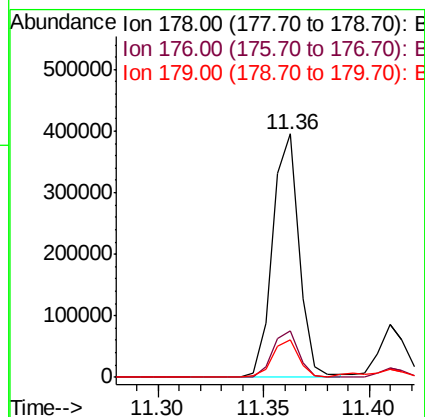
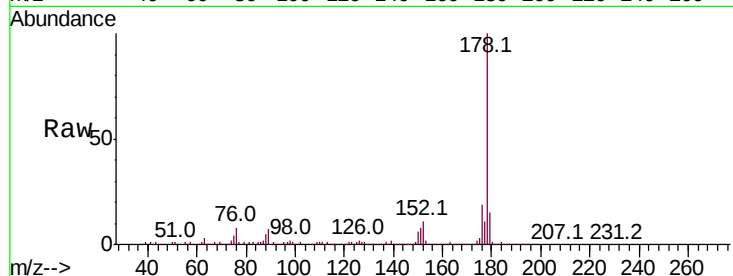




#71
Phenanthrene
Concen: 25.967 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

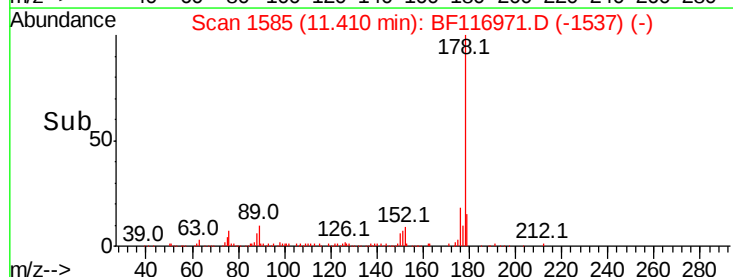
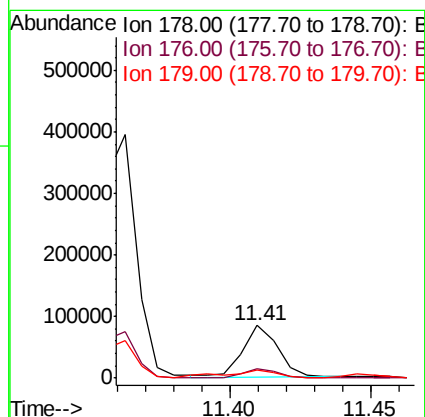
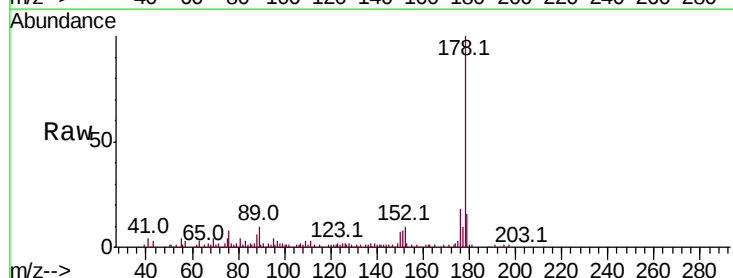
Instrument :
BNA_F
ClientSampled :

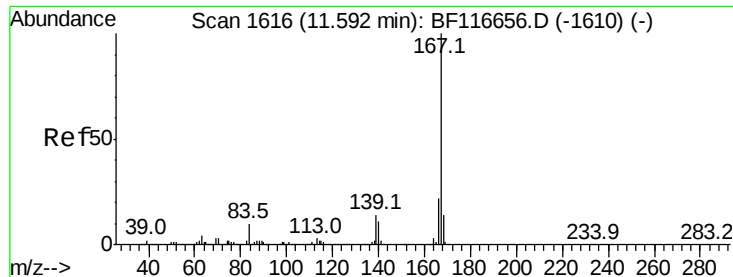
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.2	12.2	18.2



#72
Anthracene
Concen: 5.444 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.02 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.0
179	15.8	12.5	18.7





#73

Carbazole

Concen: 2.410 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

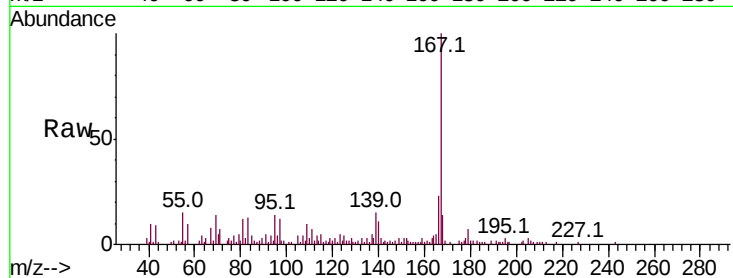
Tot Ion:167 Resp: 30741

Ion Ratio Lower Upper

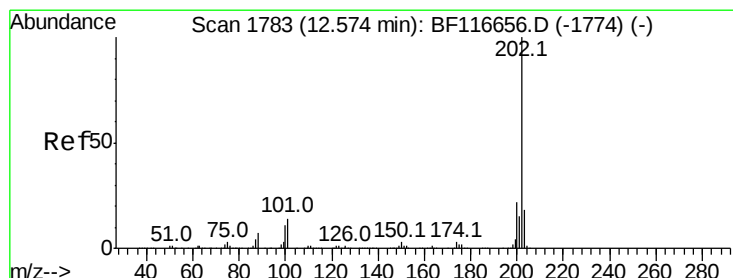
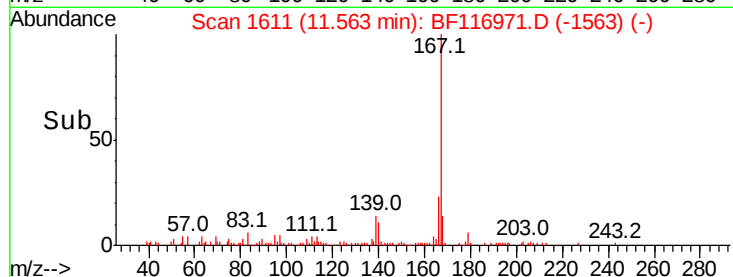
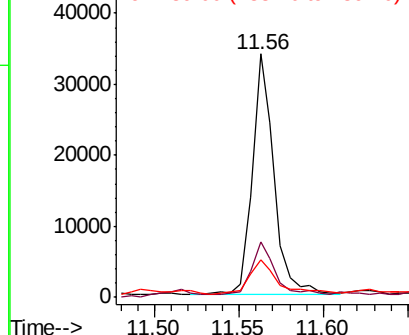
167 100

166 22.5 17.8 26.6

139 15.2 11.1 16.7



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 43.594 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

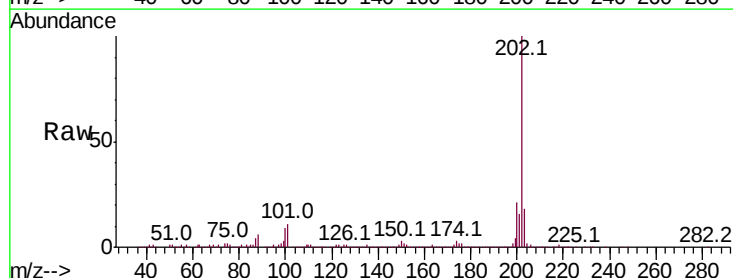
Tgt Ion:202 Resp: 569914

Ion Ratio Lower Upper

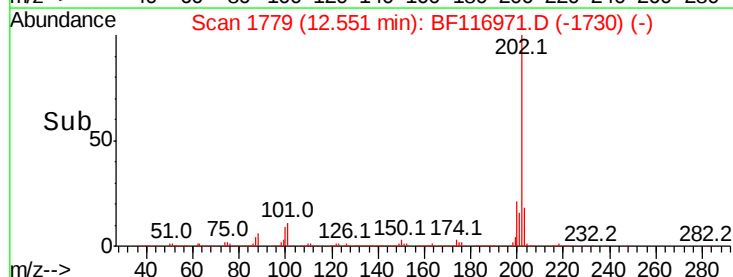
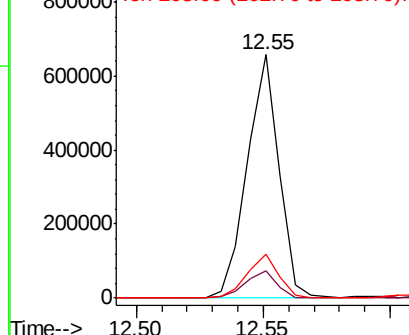
202 100

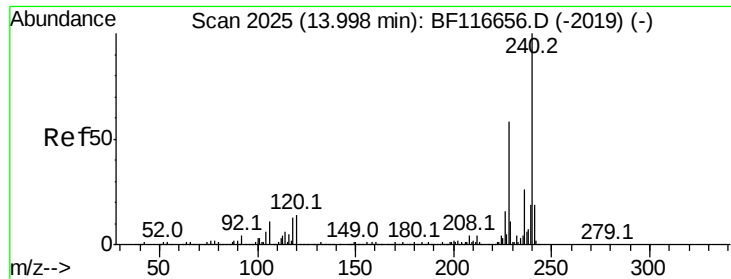
101 11.3 0.0 31.3

203 17.9 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

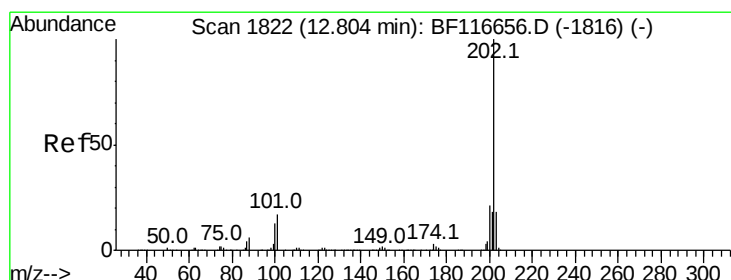
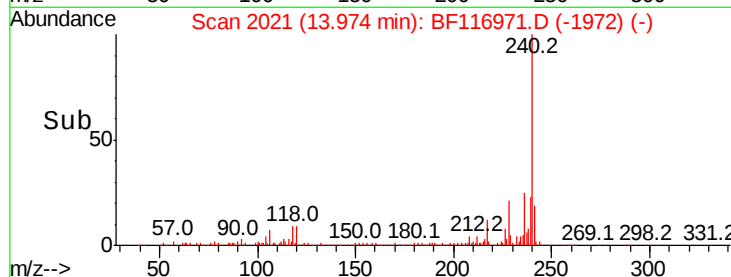
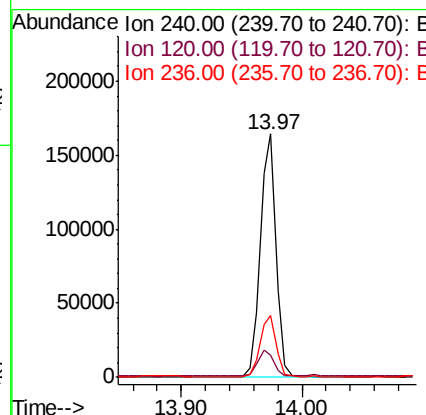
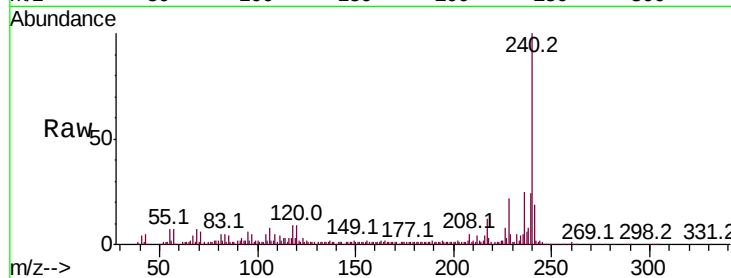




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

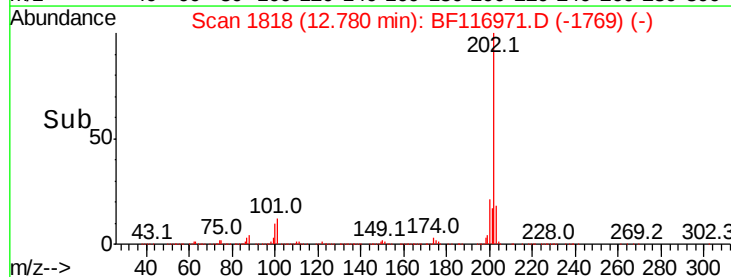
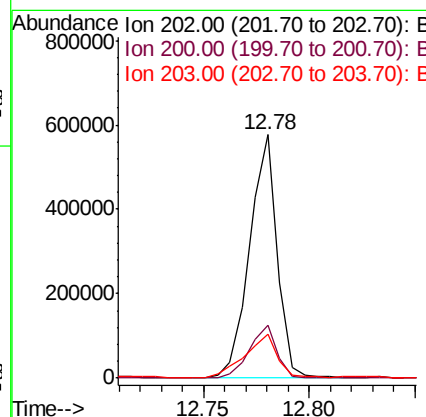
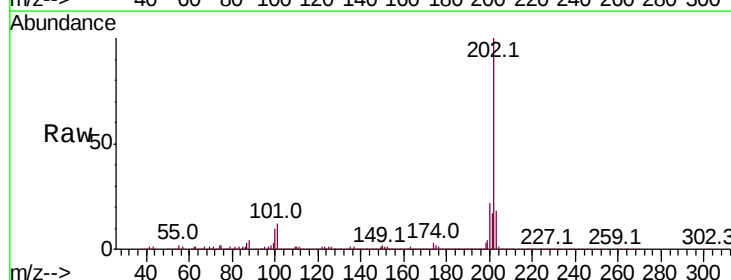
Instrument :
BNA_F
ClientSampleId :

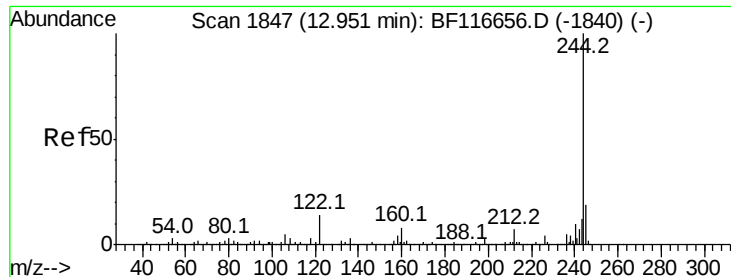
Tot Ion	Ratio	Lower	Upper
240	100		
120	9.4	9.1	13.7
236	25.4	21.1	31.7



#78
Pyrene
Concen: 38.865 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.5	24.7
203	18.3	13.7	20.5





#79

Terphenyl-d14

Concen: 25.065 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

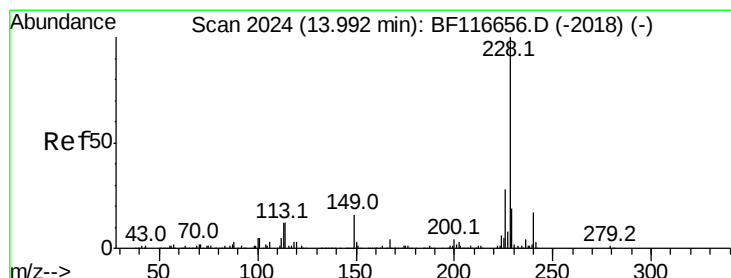
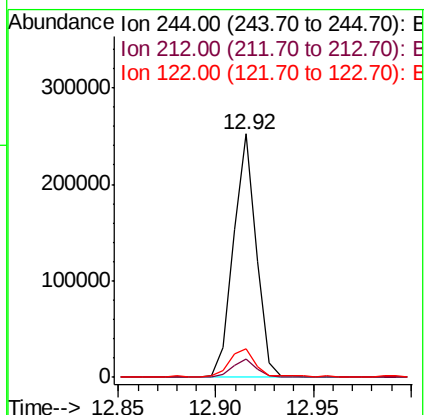
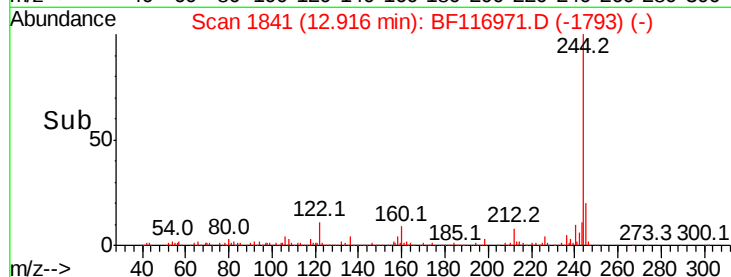
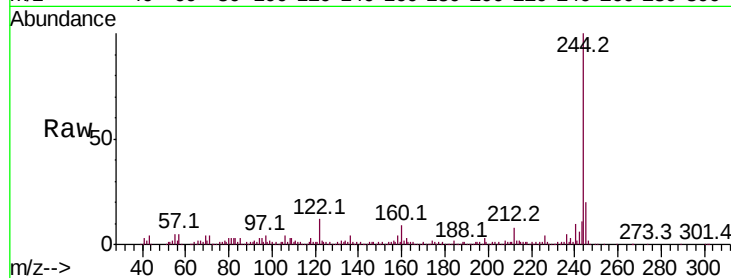
Tot Ion:244 Resp: 204676

Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

122 11.7 10.2 15.4



#81

Benzo(a)anthracene

Concen: 24.472 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

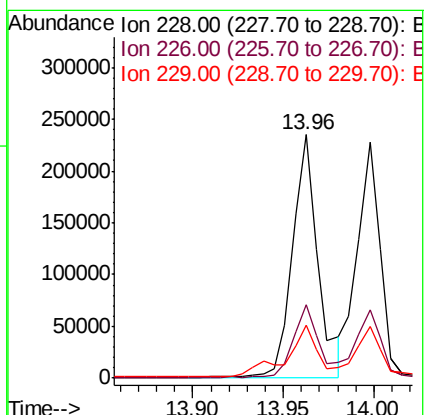
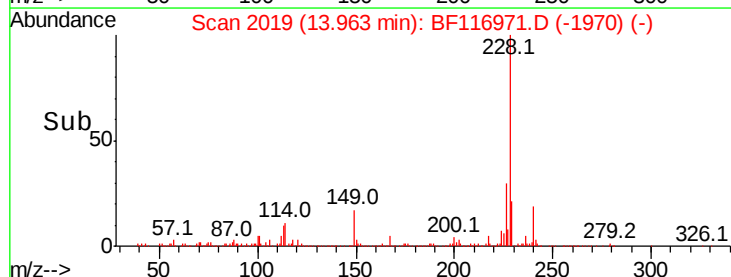
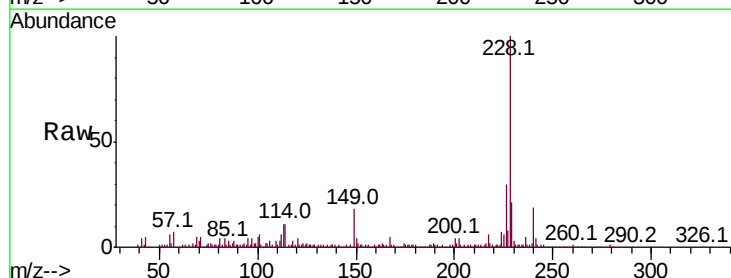
Tgt Ion:228 Resp: 233971

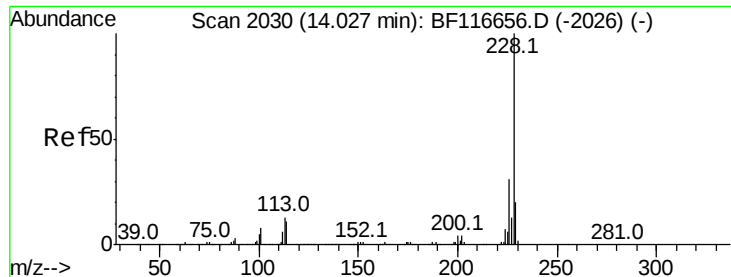
Ion Ratio Lower Upper

228 100

226 30.2 22.0 33.0

229 21.5 16.4 24.6





#83

Chrysene

Concen: 20.540 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

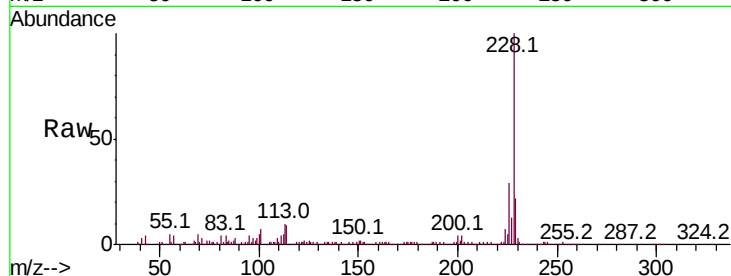
Tot Ion:228 Resp: 202318

Ion Ratio Lower Upper

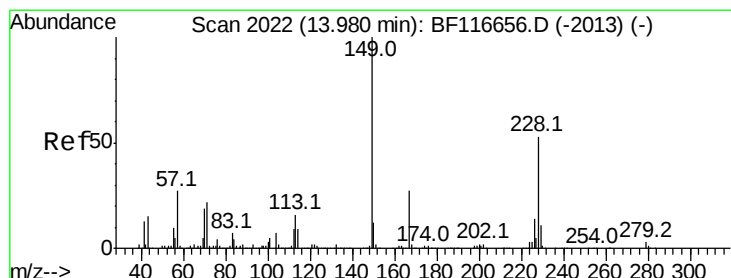
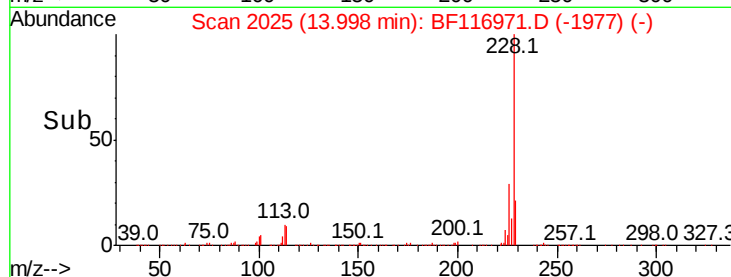
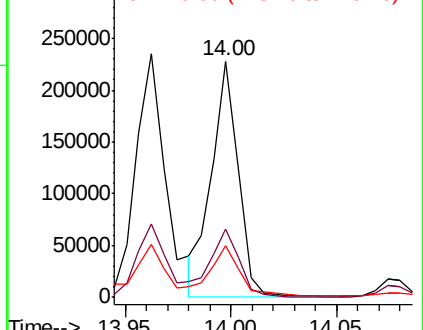
228 100

226 29.1 24.0 36.0

229 21.6 15.4 23.0



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 46.793 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

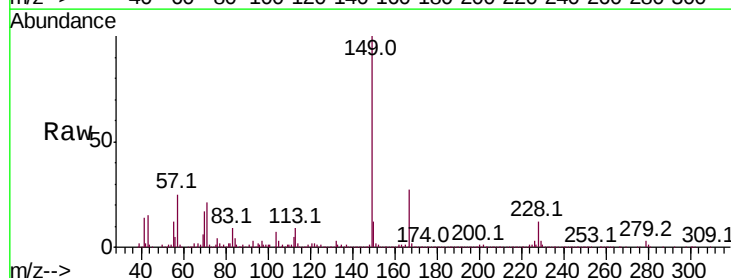
Tgt Ion:149 Resp: 377201

Ion Ratio Lower Upper

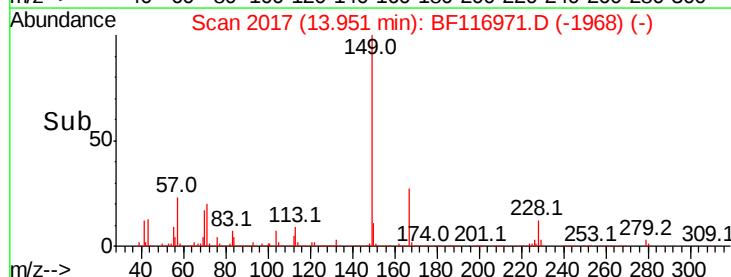
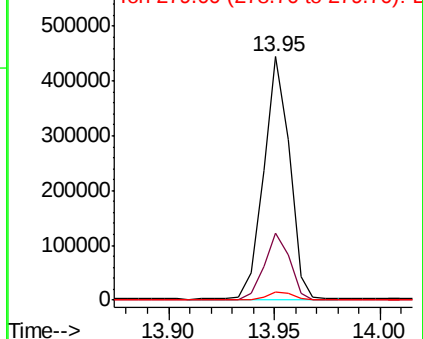
149 100

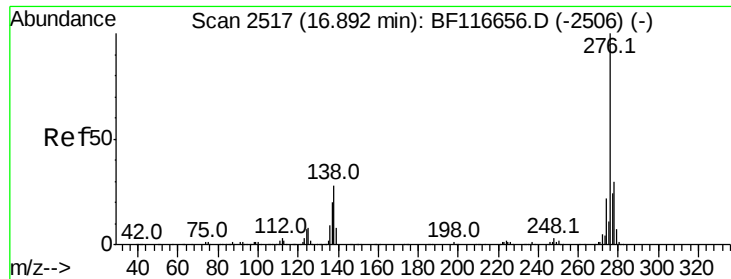
167 27.4 21.0 31.4

279 3.2 2.8 4.2



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E

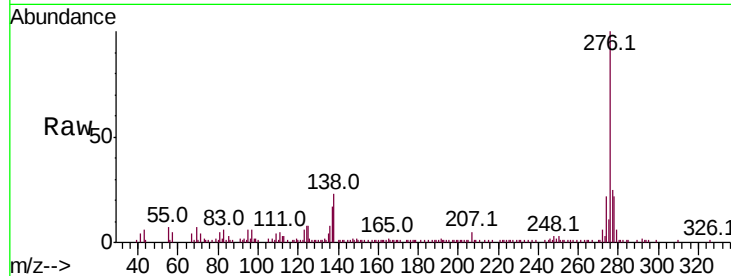




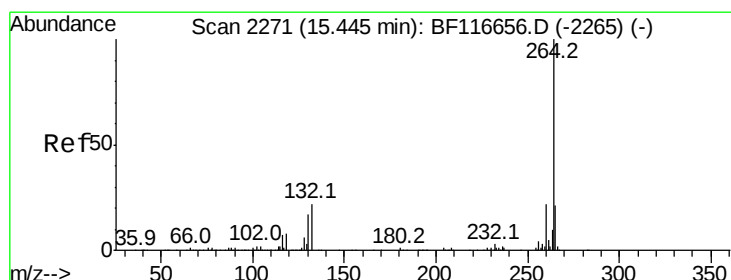
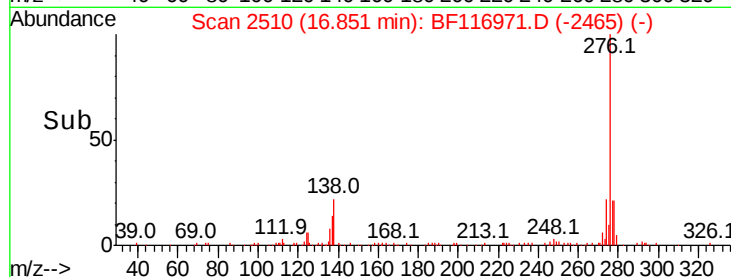
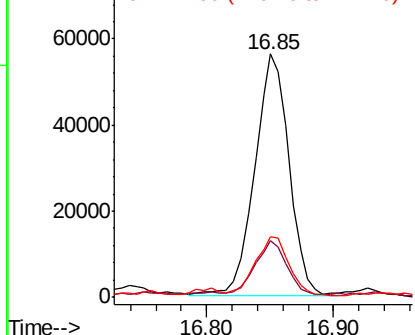
#86
Indeno(1,2,3-cd)pyrene
Concen: 13.400 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.04 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.5	19.4	29.2
277	24.0	20.5	30.7

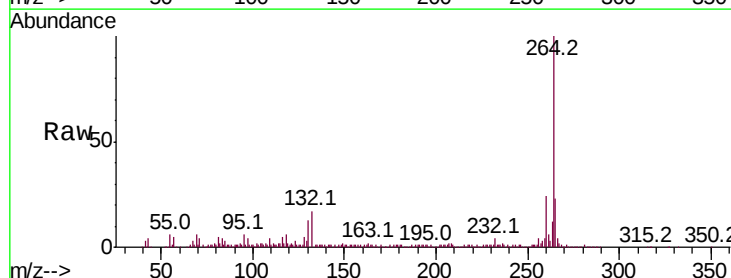


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

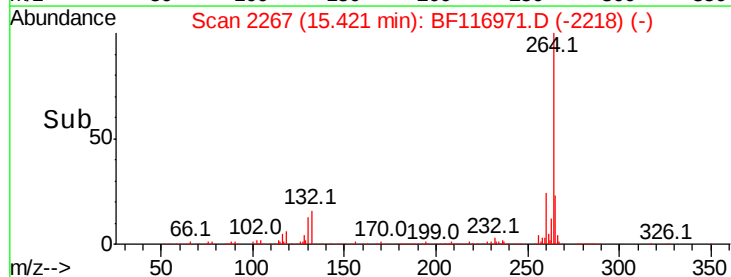
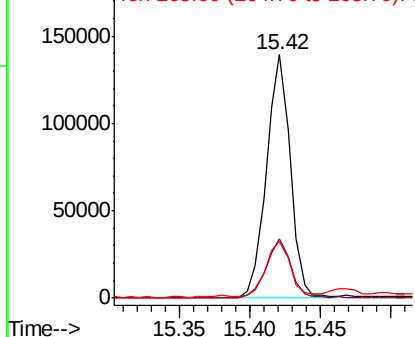


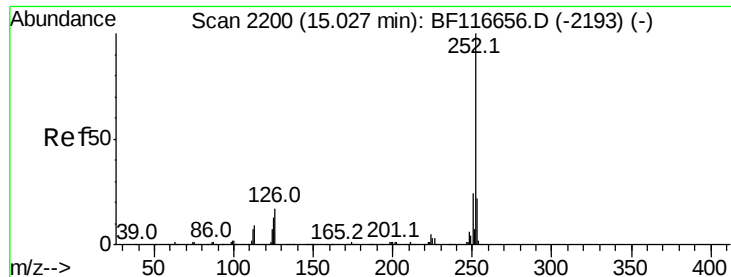
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.3	27.5
265	23.3	16.5	24.7



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

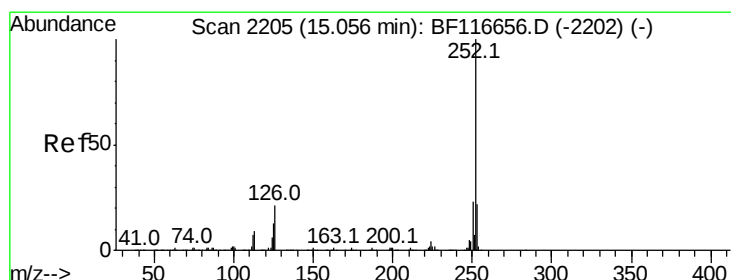
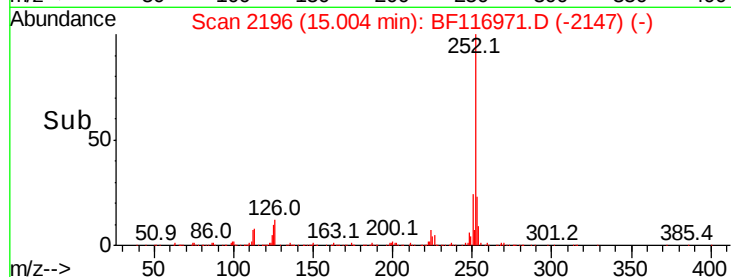
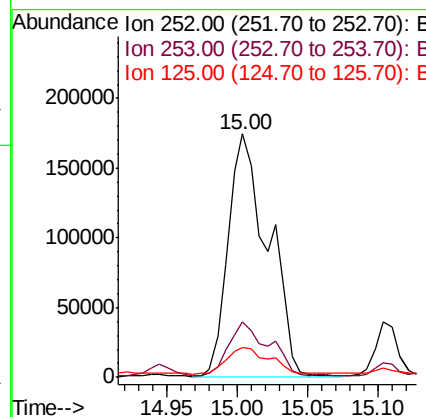
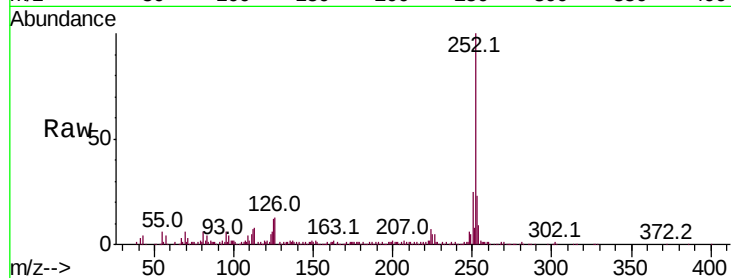




#88
Benzo(b)fluoranthene
Concen: 33.891 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

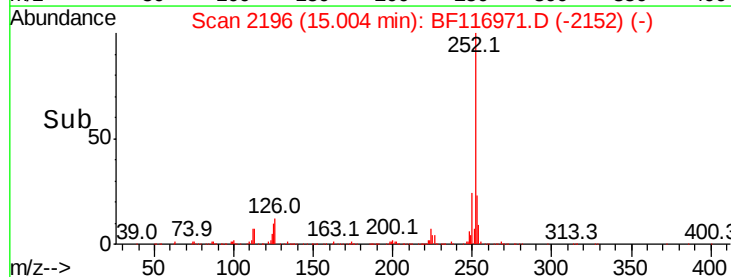
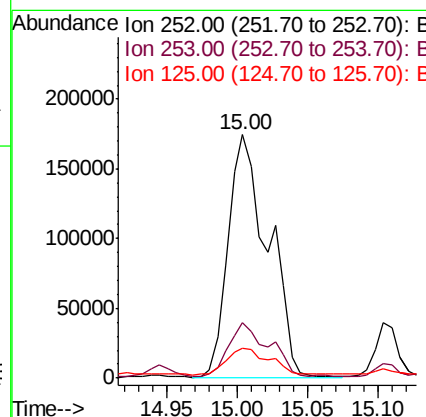
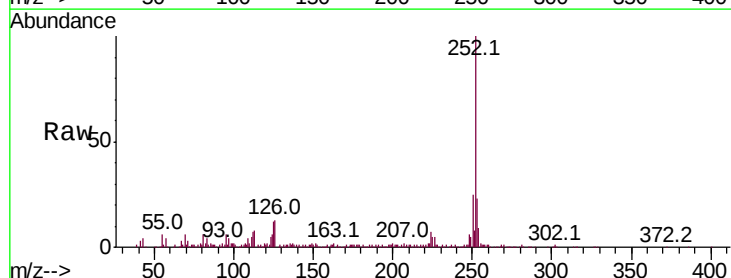
Instrument :
BNA_F
ClientSampleId :

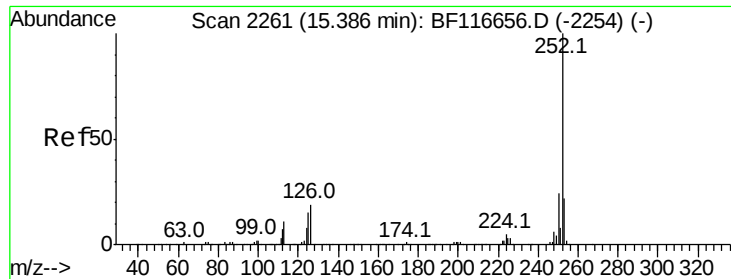
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.7	26.5
125	12.3	8.2	12.2#



#89
Benzo(k)fluoranthene
Concen: 37.171 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.04 min
Lab File: BF116971.D
Acq: 12 Sep 2019 2:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.7	26.5
125	12.3	8.6	13.0





#90

Benzo(a)pyrene

Concen: 21.368 ng

RT: 15.36 min Scan# 2257

Delta R.T. -0.02 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

Instrument :

BNA_F

ClientSampleId :

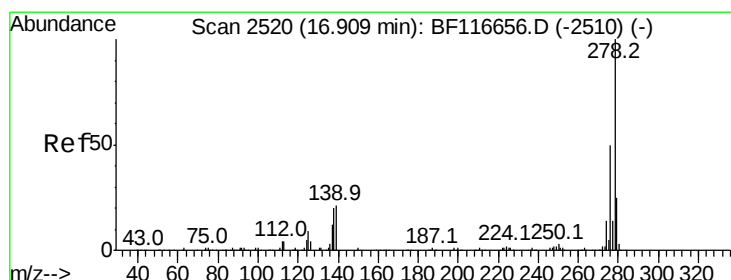
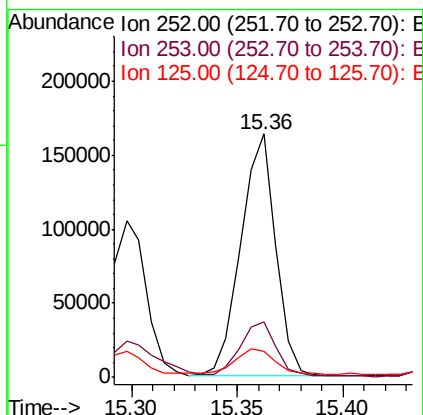
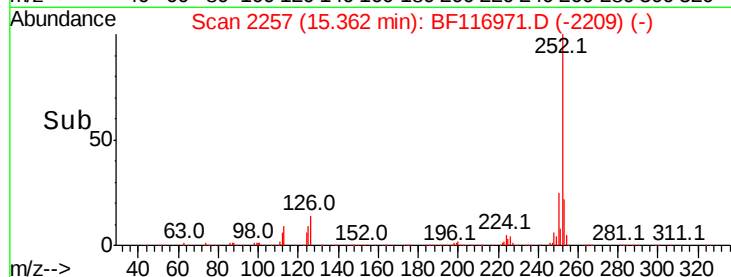
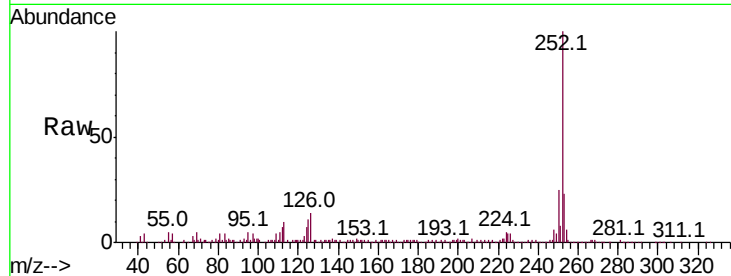
Tot Ion:252 Resp: 188302

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

125 10.9 9.8 14.8



#91

Dibenzo(a,h)anthracene

Concen: 3.428 ng

RT: 16.86 min Scan# 2511

Delta R.T. -0.04 min

Lab File: BF116971.D

Acq: 12 Sep 2019 2:27

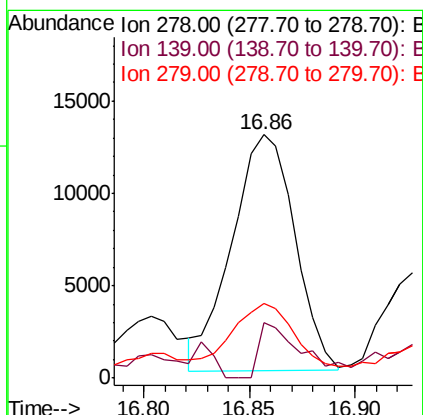
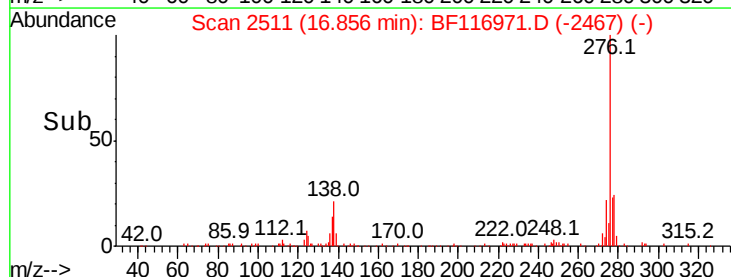
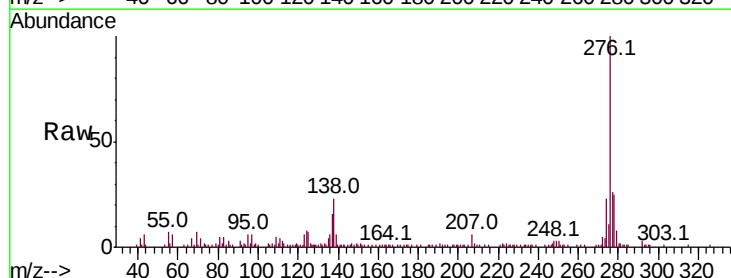
Tgt Ion:278 Resp: 26439

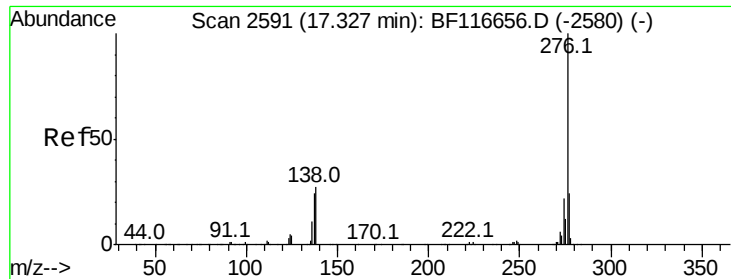
Ion Ratio Lower Upper

278 100

139 22.9 12.4 18.6#

279 30.5 18.2 27.4#





#92
 Benzo(a,h,i)perylene
 Concen: 11.962 ng
 RT: 17.29 min Scan# 2584
 Delta R.T. -0.04 min
 Lab File: BF116971.D
 Acq: 12 Sep 2019 2:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.5	27.7
138	21.0	16.2	24.2

