

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF040620\
 Data File : BF119823.D
 Acq On : 7 Apr 2020 15:42
 Operator : MA/SJ
 Sample : L2129-41DL 5X
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3DL

Quant Time: Apr 07 16:13:56 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 06 11:15:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	157892	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	413572	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	230085	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	323816	20.00	ng	0.00
76) Chrysene-d12	13.96	240	331187	20.00	ng	0.00
87) Perylene-d12	15.42	264	179872	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.39	112	329717	33.24	ng	0.00
7) Phenol-d6	6.42	99	369138	29.13	ng	0.00
23) Nitrobenzene-d5	7.35	82	243026	31.94	ng	0.00
42) 2,4,6-Tribromophenol	10.62	330	69022	29.08	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	450191	28.99	ng	0.00
79) Terphenyl-d14	12.91	244	379123	22.43	ng	0.00

Target Compounds

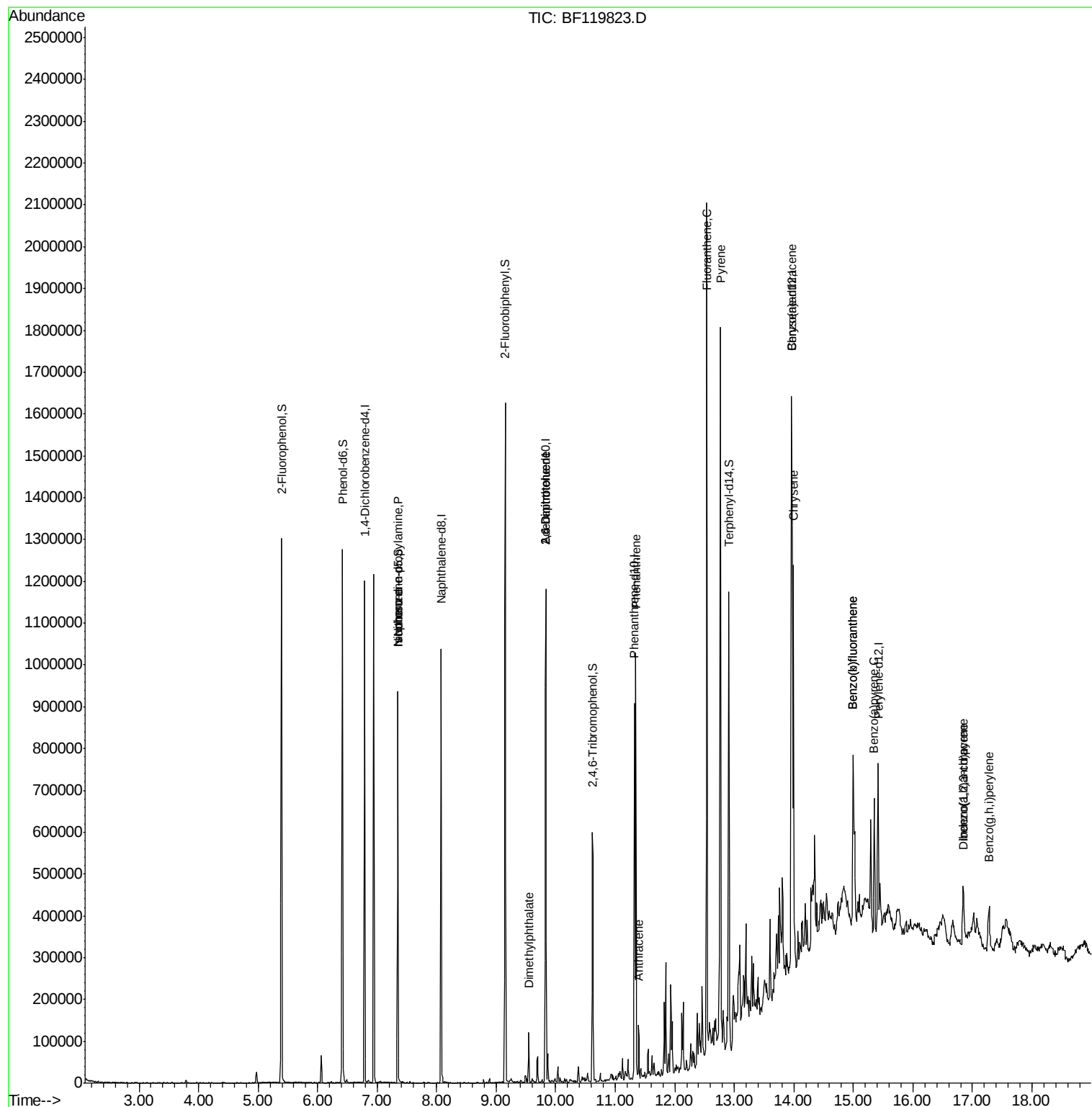
						Qvalue
19) n-Nitroso-di-n-propylamine	7.35	70	31464	4.120	ng	# 77
25) Isophorone	7.35	82	243022	15.743	ng	# 65
50) Dimethylphthalate	9.55	163	40489	2.477	ng	98
51) 2,6-Dinitrotoluene	9.83	165	30342	8.662	ng	# 26
57) 2,4-Dinitrotoluene	9.83	165	30342	6.876	ng	# 20
71) Phenanthrene	11.35	178	363386	21.642	ng	97
72) Anthracene	11.39	178	45165	2.647	ng	97
75) Fluoranthene	12.54	202	791982	43.584	ng	96
78) Pyrene	12.77	202	739780	27.218	ng	98
81) Benzo(a)anthracene	13.96	228	287127	13.332	ng	98
83) Chrysene	13.99	228	358612	16.134	ng	97
86) Indeno(1,2,3-cd)pyrene	16.84	276	94495	4.514	ng	# 92
88) Benzo(b)fluoranthene	15.00	252	320429	26.668	ng	98
89) Benzo(k)fluoranthene	15.00	252	320429	28.007	ng	99
90) Benzo(a)pyrene	15.35	252	159935	14.647	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	20939	2.192	ng	# 90
92) Benzo(g,h,i)perylene	17.27	276	87739	9.144	ng	97

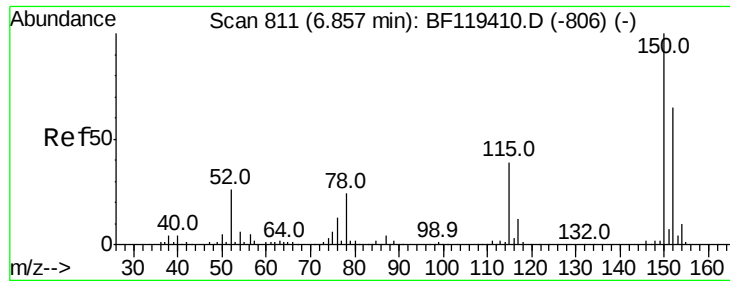
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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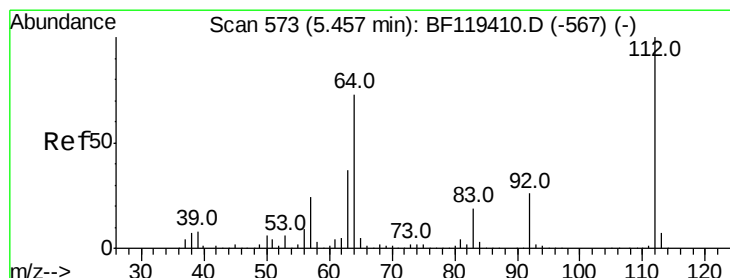
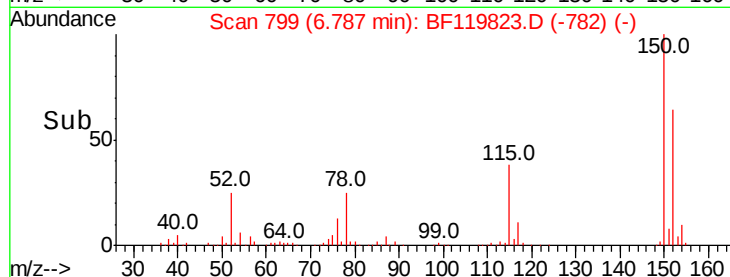
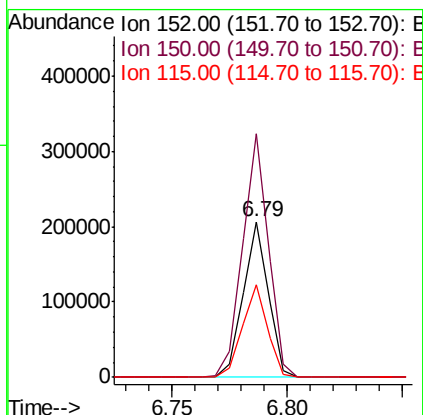
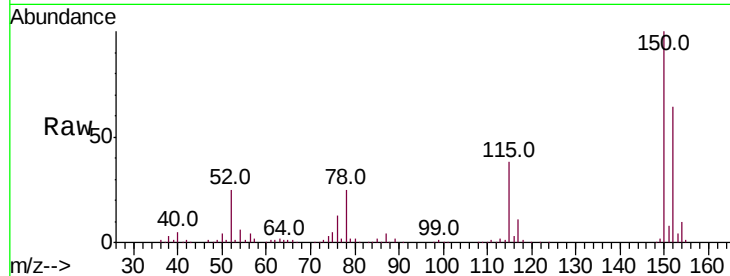


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. 0.00 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-3DL

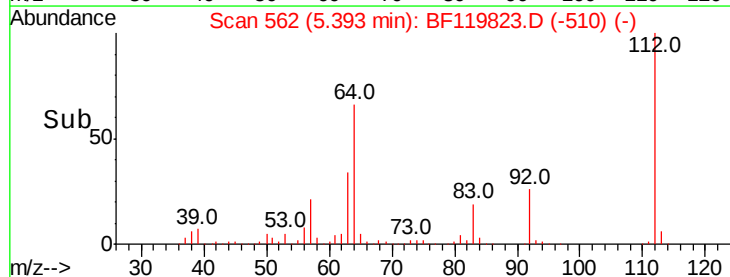
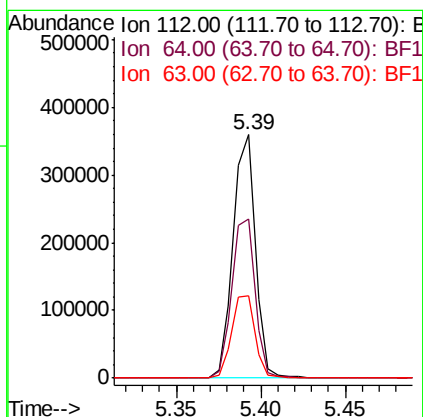
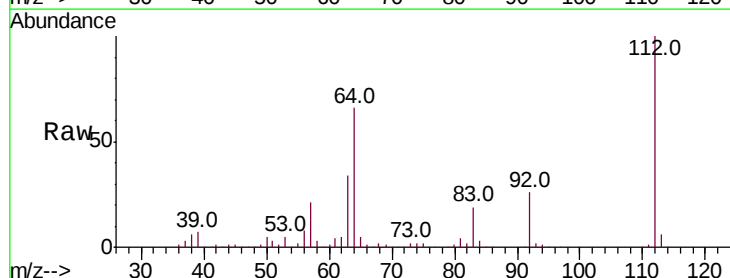
Tot Ion:152 Resp: 157892
Ion Ratio Lower Upper
152 100
150 156.3 124.5 186.7
115 59.2 49.6 74.4

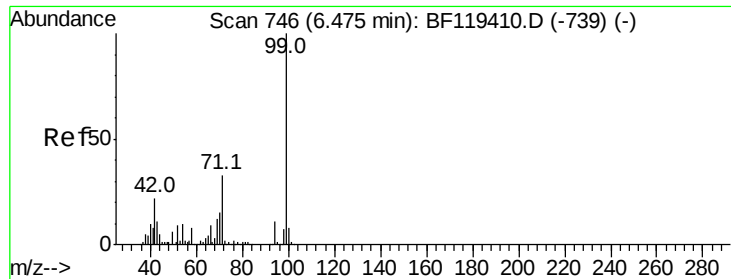


#5

2-Fluorophenol
Concen: 33.243 ng
RT: 5.39 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion:112 Resp: 329717
Ion Ratio Lower Upper
112 100
64 65.6 56.7 85.1
63 33.6 29.5 44.3





#7

Phenol-d6

Concen: 29.135 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.00 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

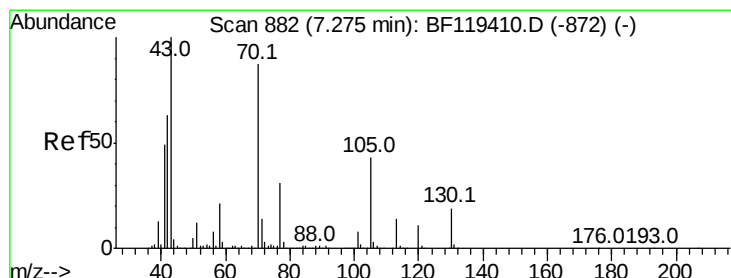
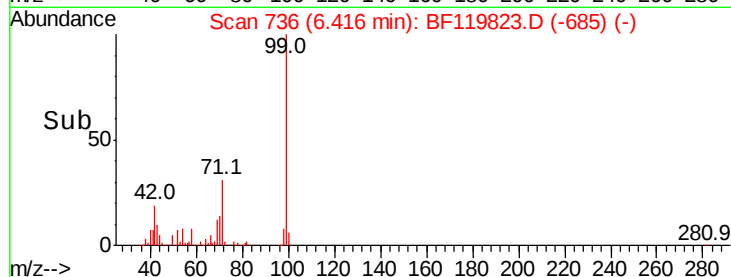
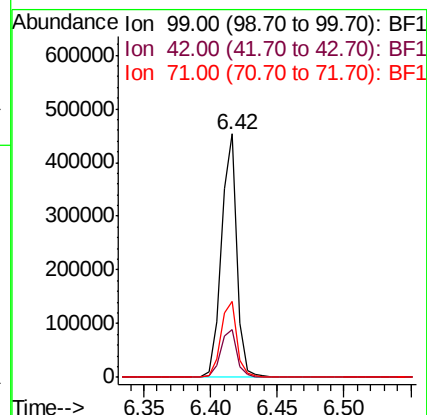
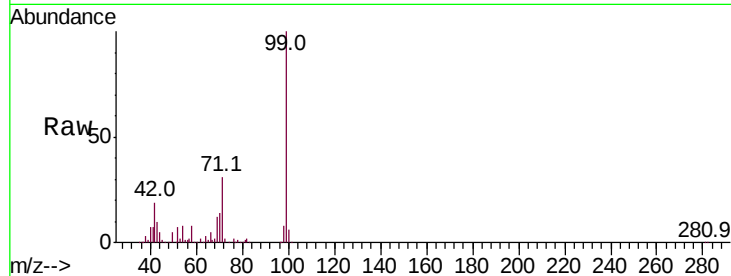
Tot Ion: 99 Resp: 369138

Ion Ratio Lower Upper

99 100

42 19.4 16.6 24.8

71 31.4 26.4 39.6



#19

n-Nitroso-di-n-propylamine

Concen: 4.120 ng

RT: 7.35 min Scan# 894

Delta R.T. 0.14 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Tgt Ion: 70 Resp: 31464

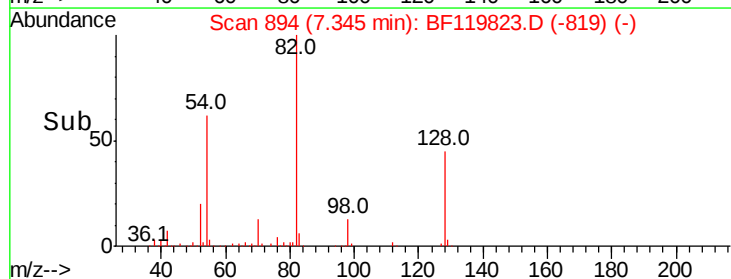
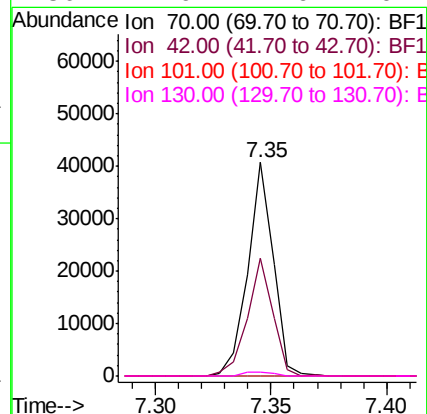
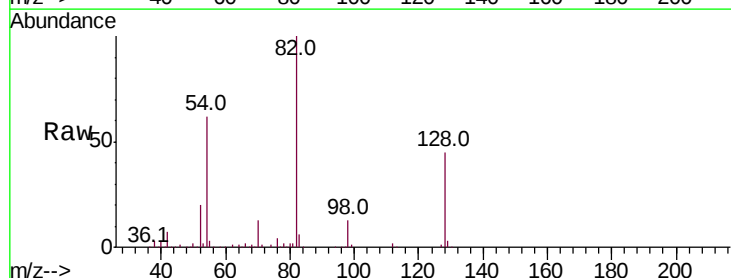
Ion Ratio Lower Upper

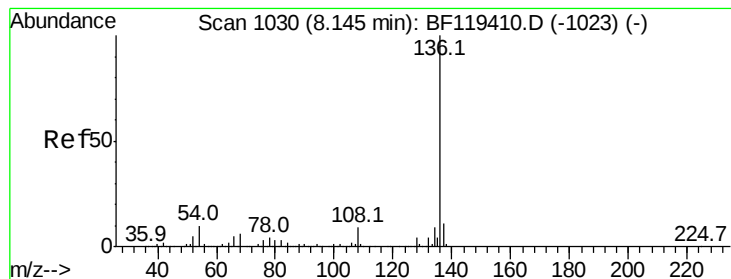
70 100

42 54.9 54.5 81.7

101 0.0 7.6 11.4#

130 1.9 17.6 26.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. 0.00 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

Tot Ion:136 Resp: 413572

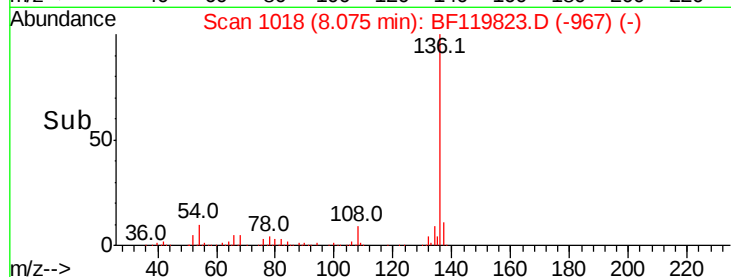
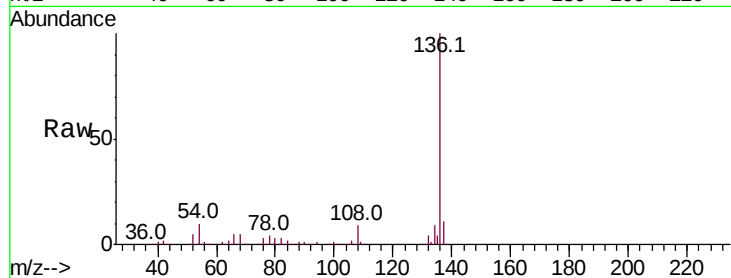
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 10.2 9.1 13.7

68 5.1 4.6 6.8



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

800000

600000

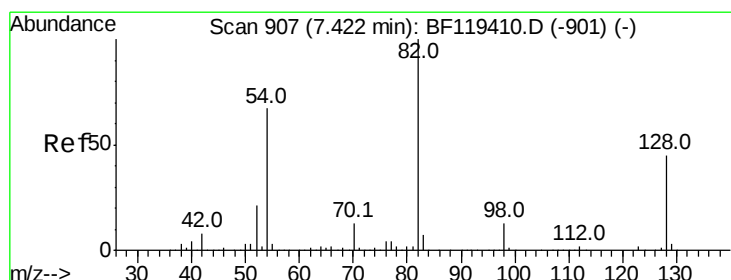
400000

200000

0

Time-->

8.05 8.10



#23

Nitrobenzene-d5

Concen: 31.936 ng

RT: 7.35 min Scan# 894

Delta R.T. -0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

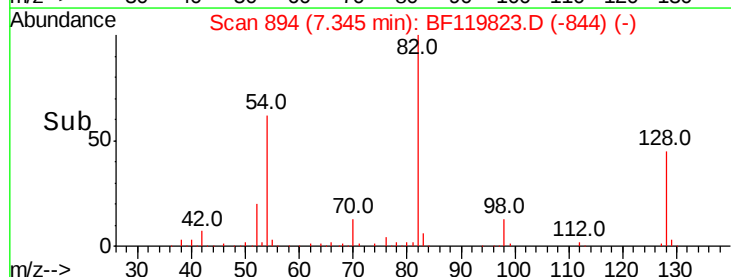
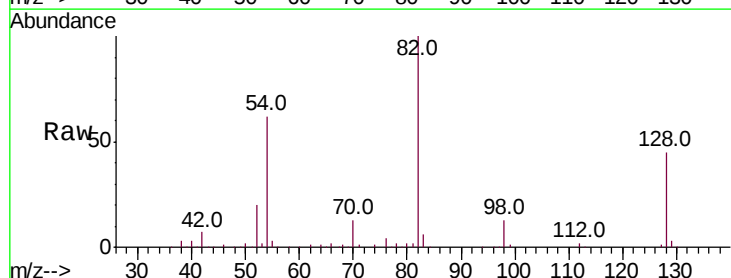
Tgt Ion: 82 Resp: 243026

Ion Ratio Lower Upper

82 100

128 45.3 36.3 54.5

54 61.9 50.6 75.8



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

400000

300000

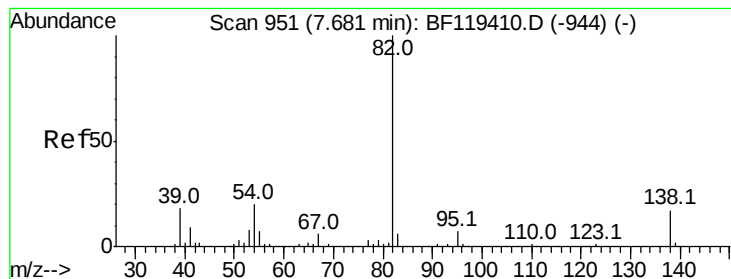
200000

100000

0

Time-->

7.30 7.35 7.40



#25

Isophorone

Concen: 15.743 ng

RT: 7.35 min Scan# 894

Delta R.T. -0.26 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampled :

TP-3DL

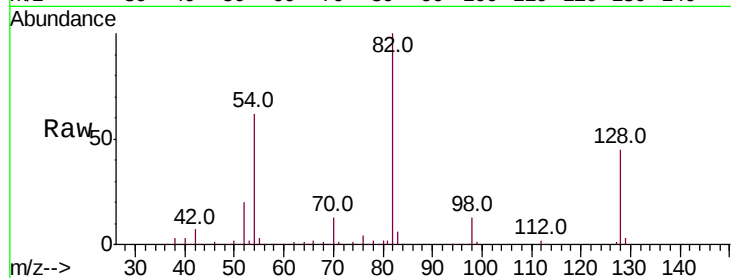
Tot Ion: 82 Resp: 243022

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

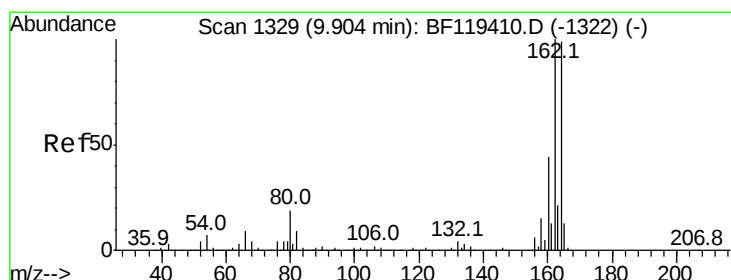
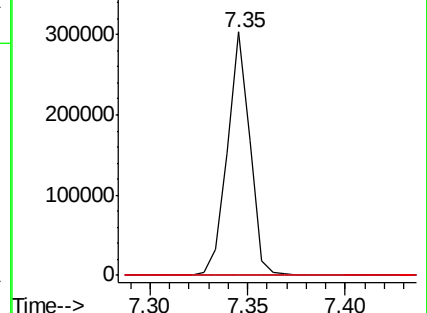
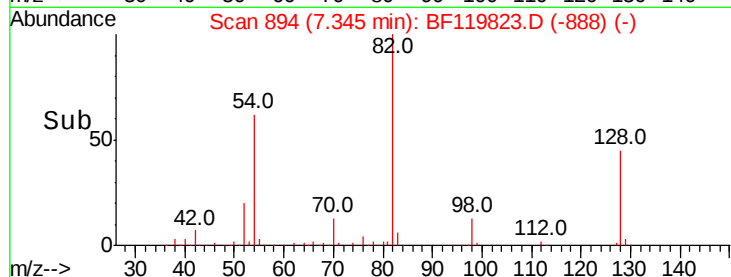
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.00 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

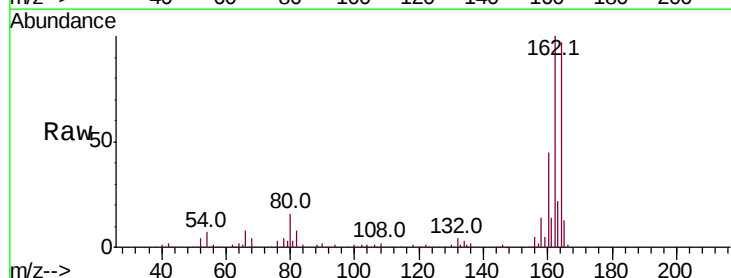
Tgt Ion:164 Resp: 230085

Ion Ratio Lower Upper

164 100

162 103.5 80.6 121.0

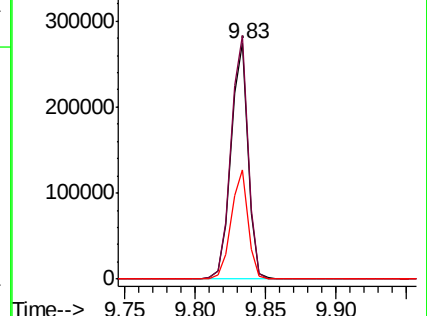
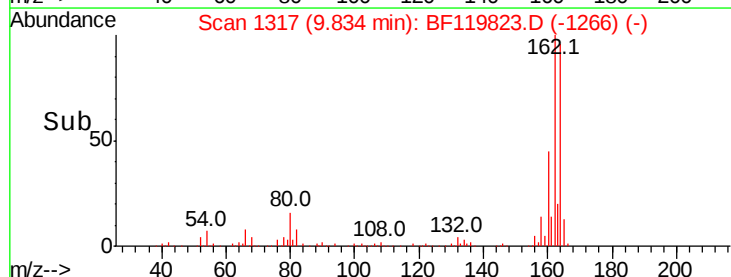
160 46.2 35.7 53.5

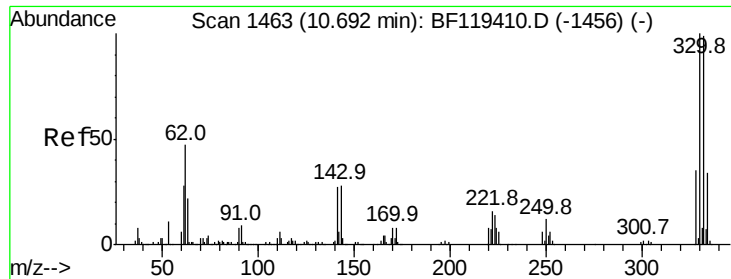


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 29.078 ng

RT: 10.62 min Scan# 1451

Delta R.T. 0.00 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

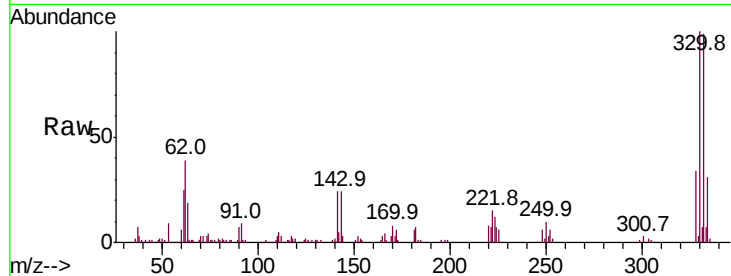
Tot Ion:330 Resp: 69022

Ion Ratio Lower Upper

330 100

332 97.8 75.7 113.5

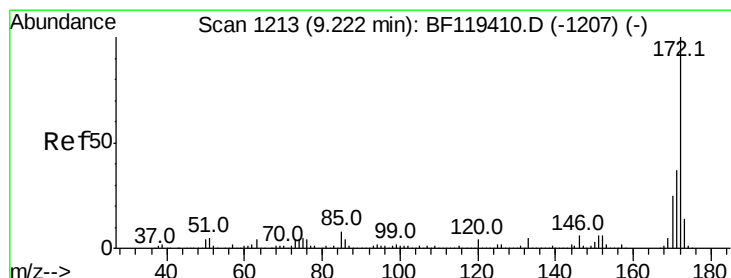
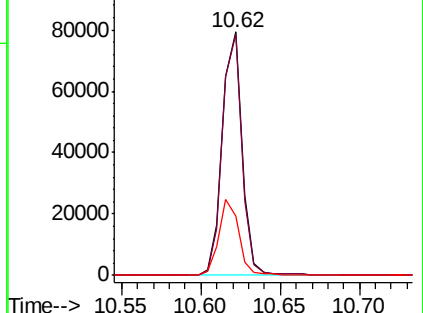
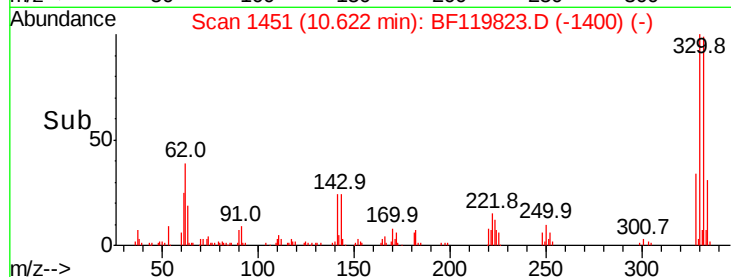
141 31.1 25.4 38.0



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: 28.987 ng

RT: 9.15 min Scan# 1201

Delta R.T. 0.00 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

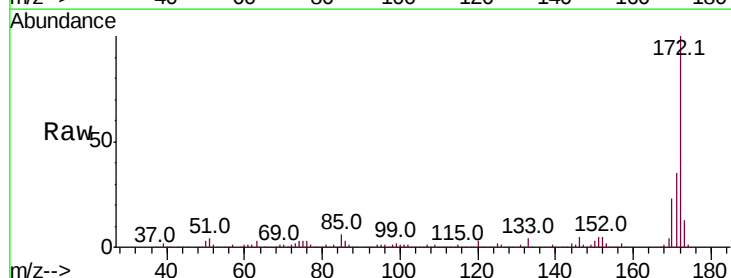
Tgt Ion:172 Resp: 450191

Ion Ratio Lower Upper

172 100

171 35.1 29.6 44.4

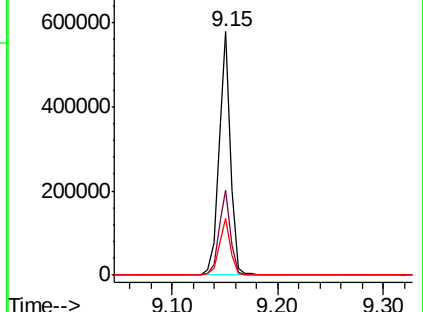
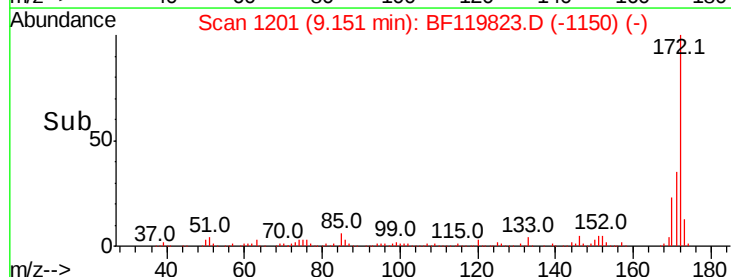
170 23.2 20.2 30.2

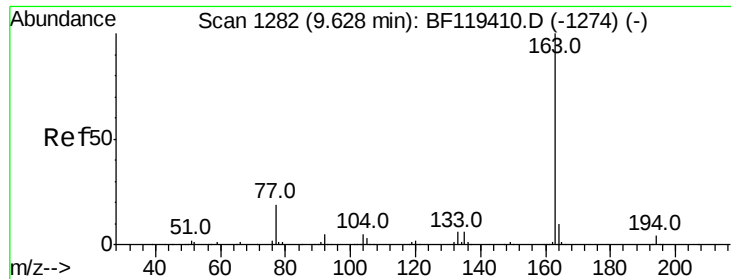


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

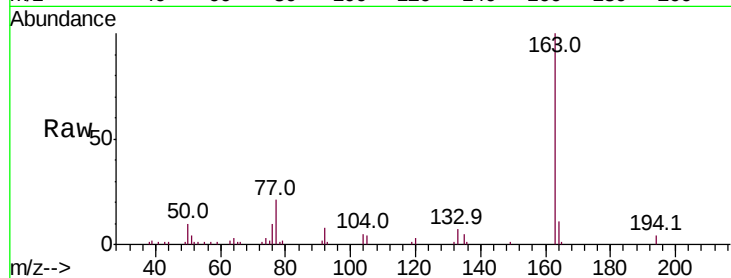




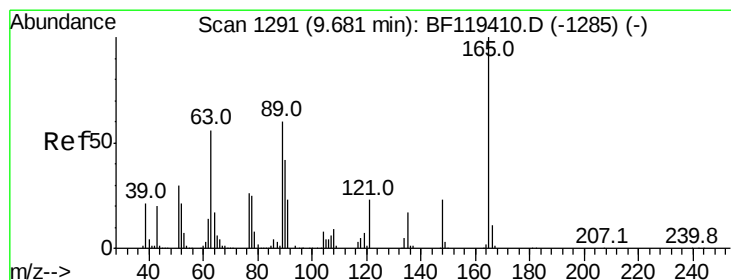
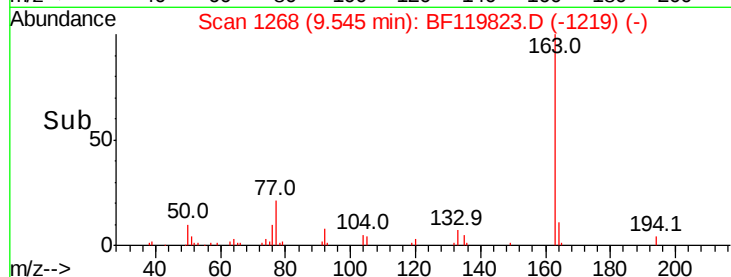
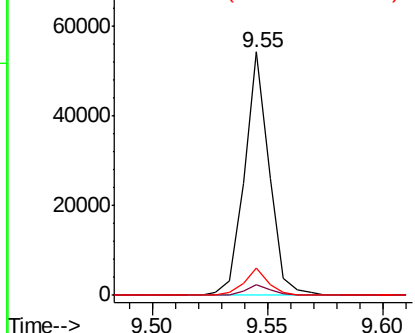
#50
Dimethylphthalate
Concen: 2.477 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-3DL

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.1	4.7
164	11.2	8.2	12.2

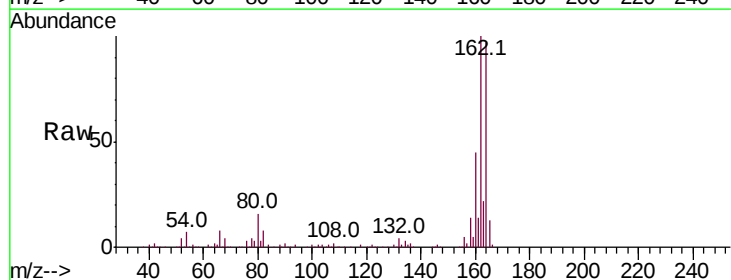


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

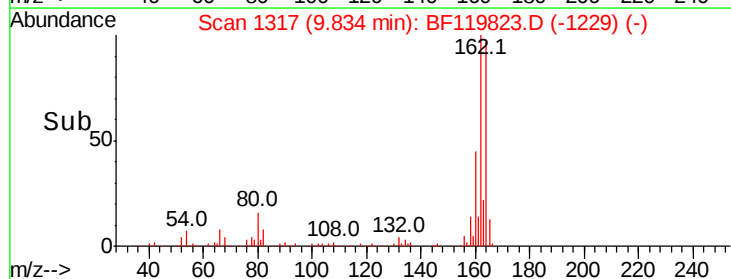
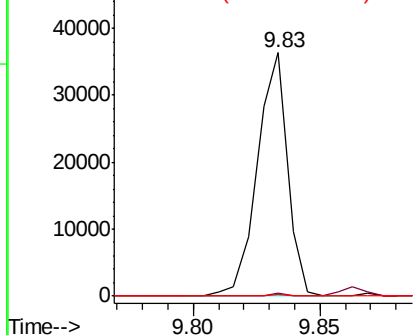


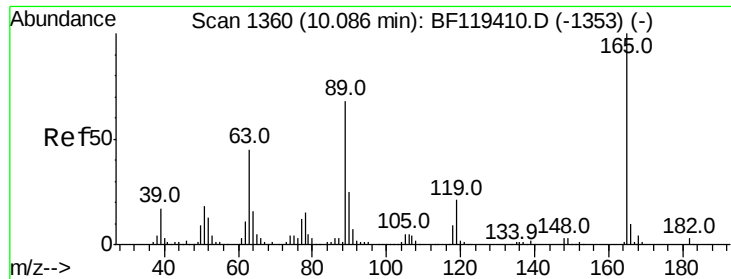
#51
2,6-Dinitrotoluene
Concen: 8.662 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.22 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	45.0	67.4#
89	0.8	41.5	62.3#



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

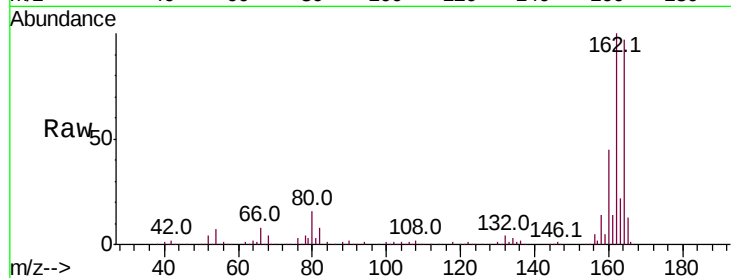




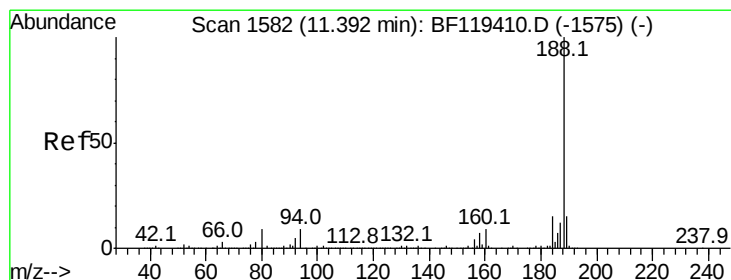
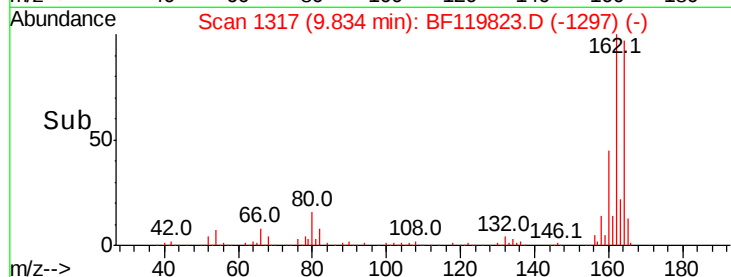
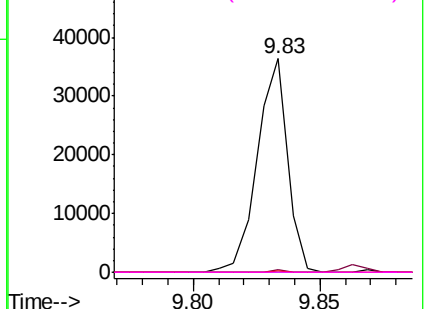
#57
 2,4-Dinitrotoluene
 Concen: 6.876 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.18 min
 Lab File: BF119823.D
 Acq: 7 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampled :
 TP-3DL

Tot Ion:165 Resp: 30342
 Ion Ratio Lower Upper
 165 100
 63 1.3 42.6 64.0#
 89 0.8 61.0 91.4#
 182 0.0 2.2 3.2#

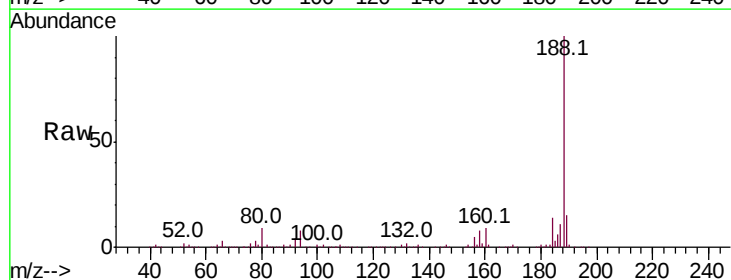


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

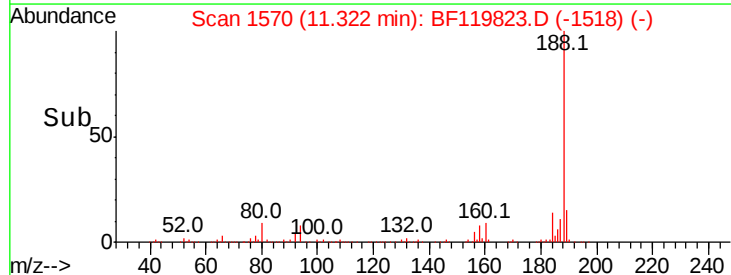
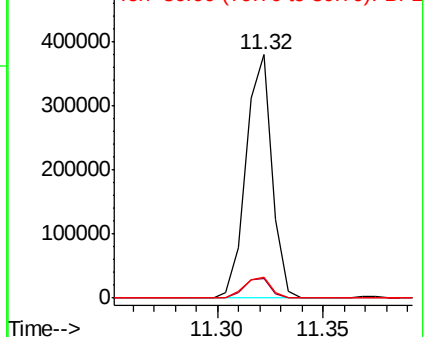


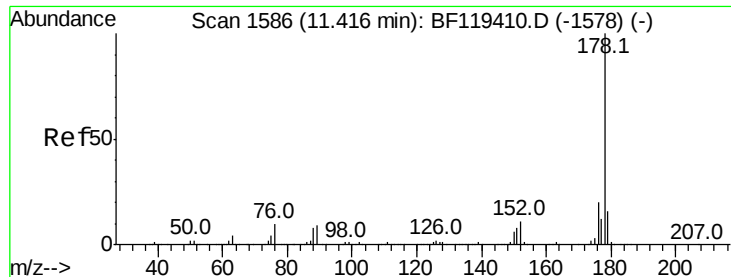
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF119823.D
 Acq: 7 Apr 2020 15:42

Tgt Ion:188 Resp: 323816
 Ion Ratio Lower Upper
 188 100
 94 8.1 7.5 11.3
 80 8.8 9.0 13.4#



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

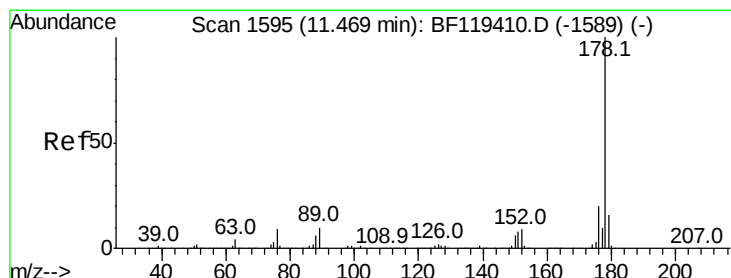
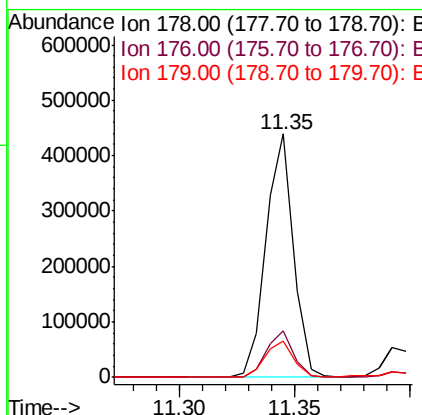
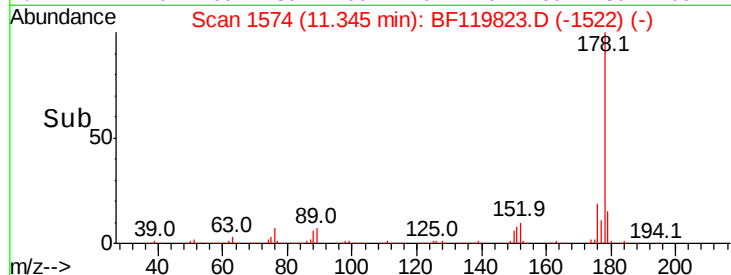
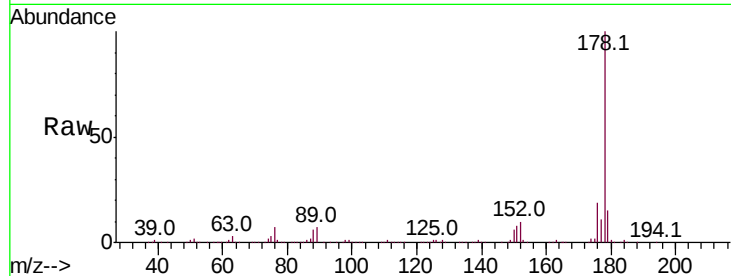




#71
Phenanthrene
Concen: 21.642 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

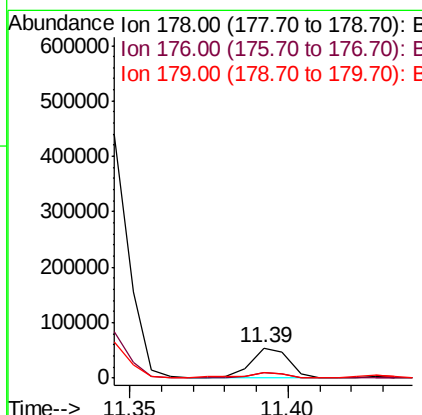
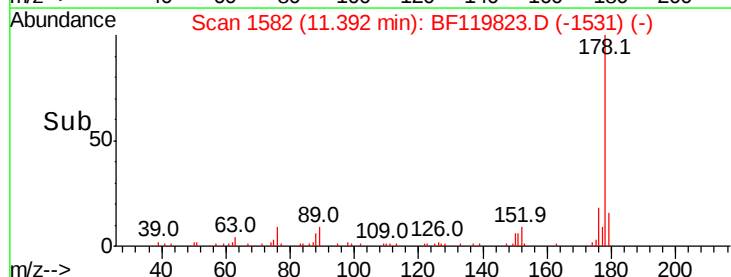
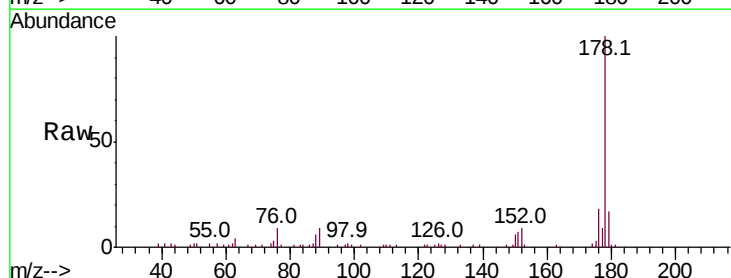
Instrument :
BNA_F
ClientSampleId :
TP-3DL

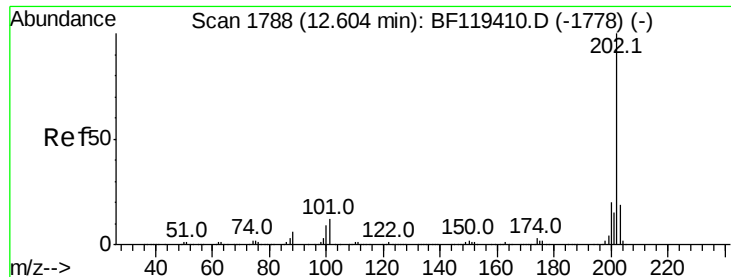
Tot Ion:178 Resp: 363386
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 14.8 13.2 19.8



#72
Anthracene
Concen: 2.647 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.00 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion:178 Resp: 45165
Ion Ratio Lower Upper
178 100
176 17.6 16.1 24.1
179 16.6 13.0 19.4





#75

Fluoranthene

Concen: 43.584 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

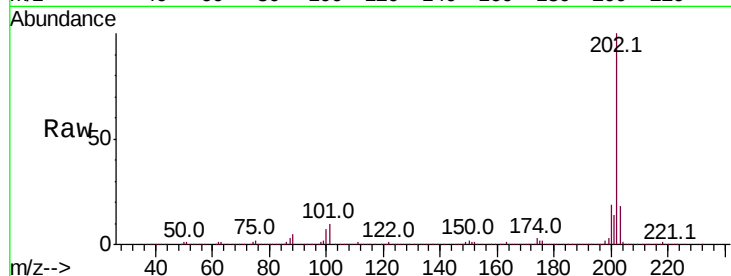
Tot Ion:202 Resp: 791982

Ion Ratio Lower Upper

202 100

101 9.7 0.0 32.2

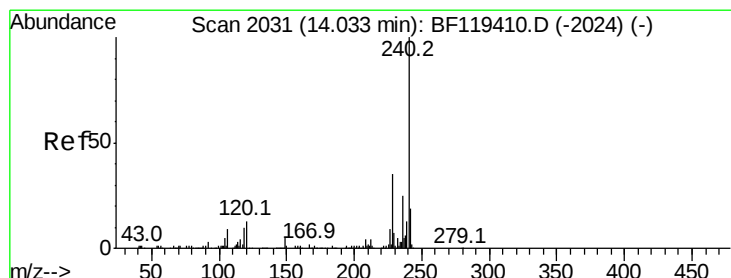
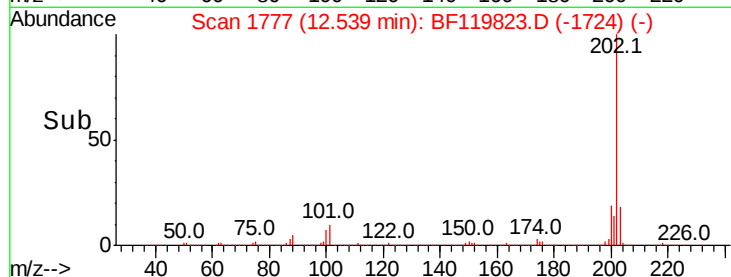
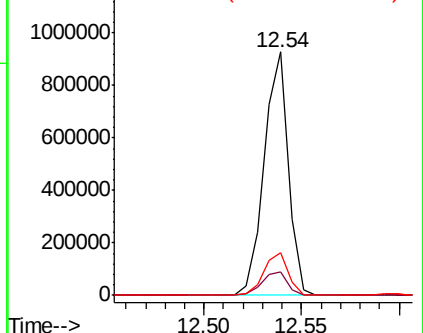
203 17.7 0.0 38.8



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: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

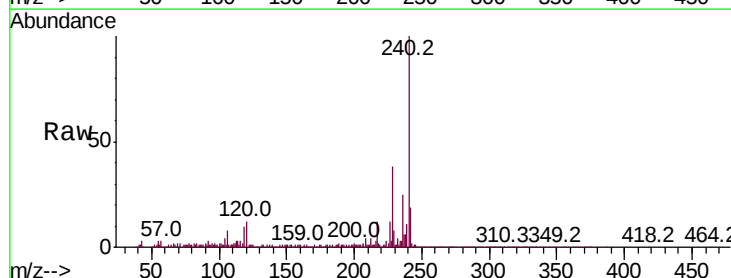
Tgt Ion:240 Resp: 331187

Ion Ratio Lower Upper

240 100

120 11.8 10.6 15.8

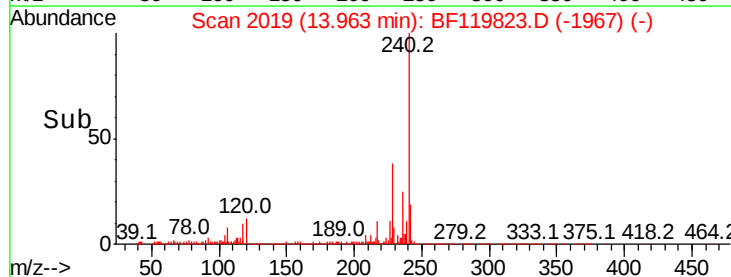
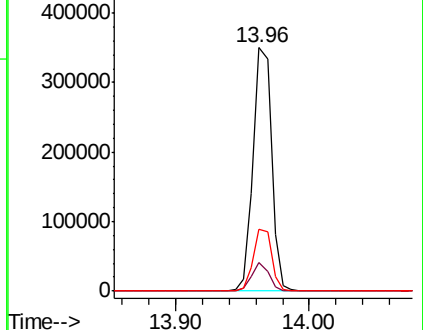
236 25.5 20.2 30.2

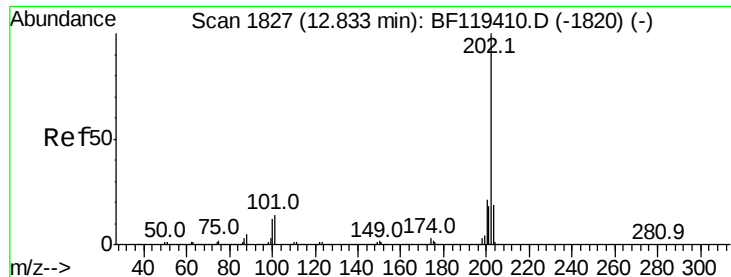


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

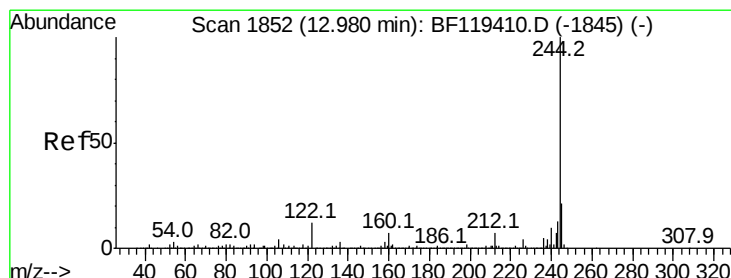
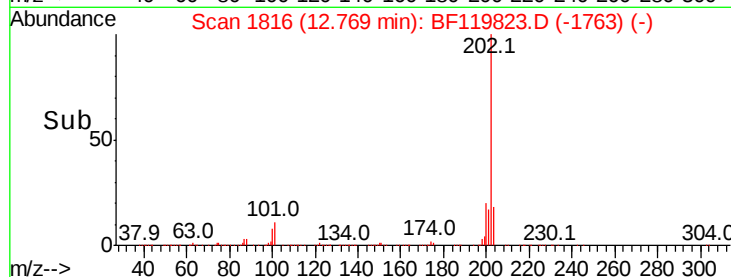
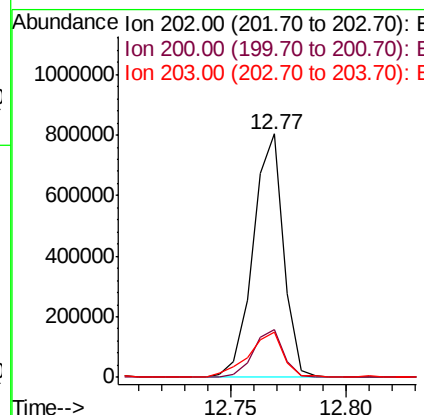
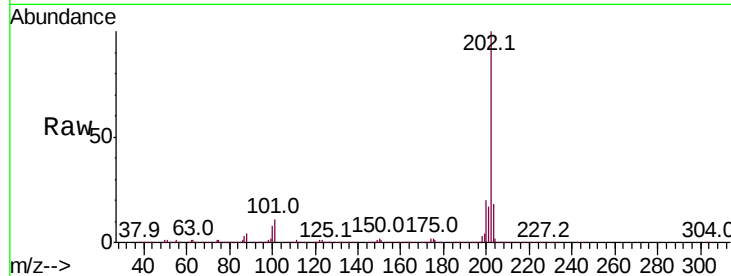




#78
Pvrene
Concen: 27.218 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

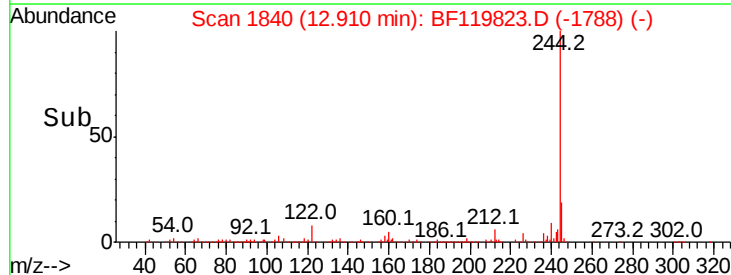
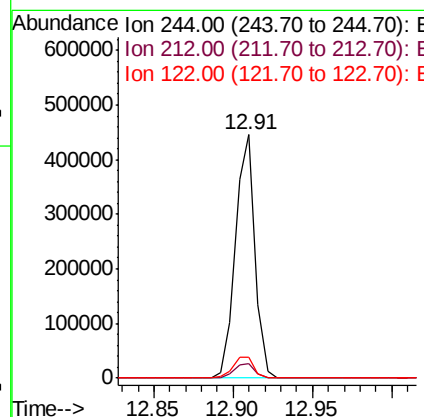
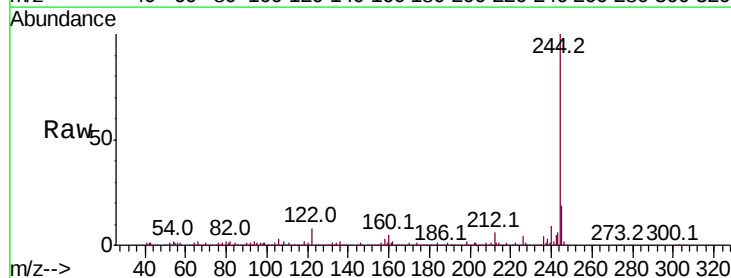
Instrument :
BNA_F
ClientSampleId :
TP-3DL

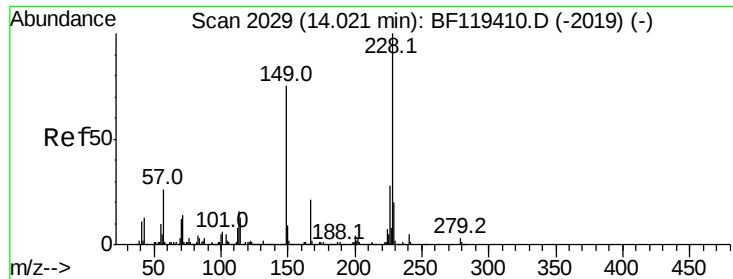
Tot Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.8	25.2
203	18.4	15.1	22.7



#79
Terphenyl-d14
Concen: 22.428 ng
RT: 12.91 min Scan# 1840
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.9	5.8	8.8
122	8.5	10.3	15.5#

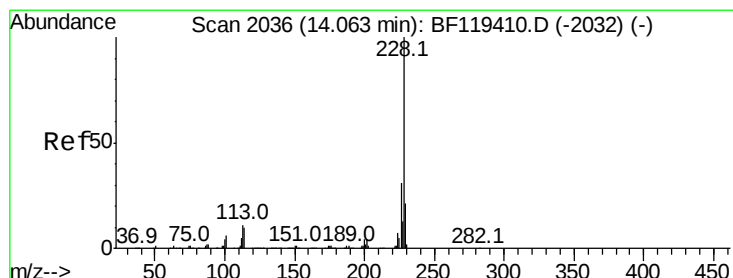
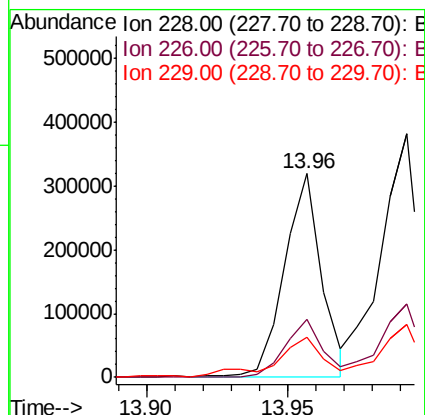
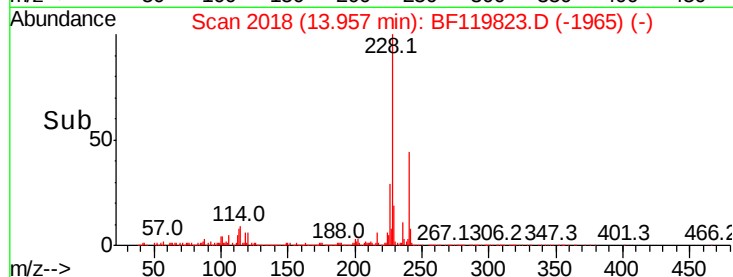
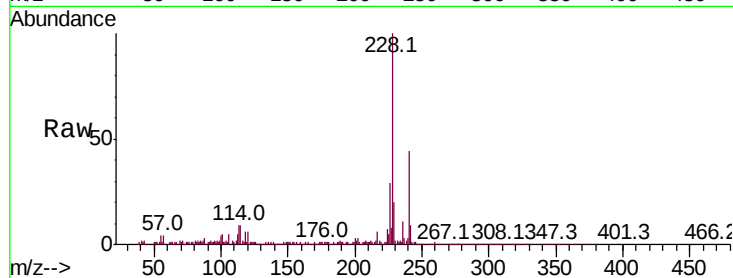




#81
Benzo(a)anthracene
Concen: 13.332 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

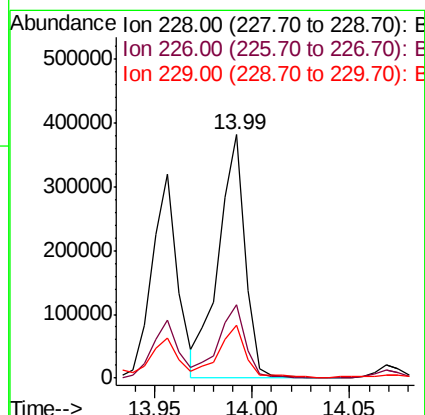
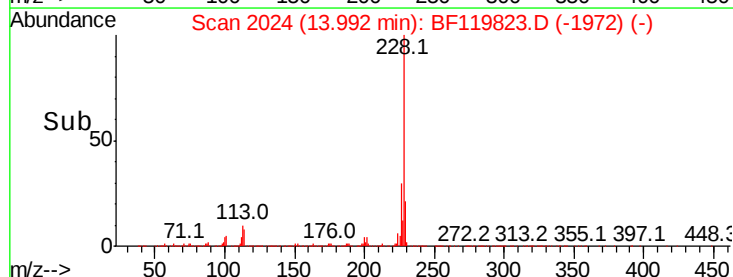
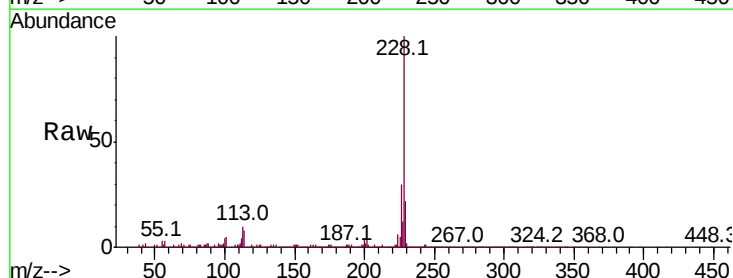
Instrument :
BNA_F
ClientSampleId :
TP-3DL

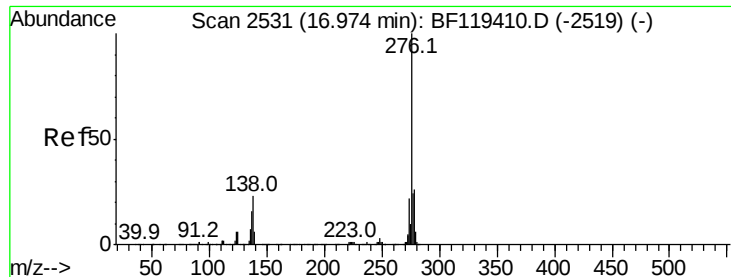
Tot Ion:228 Resp: 287127
Ion Ratio Lower Upper
228 100
226 28.7 21.8 32.8
229 19.7 16.2 24.4



#83
Chrysene
Concen: 16.134 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion:228 Resp: 358612
Ion Ratio Lower Upper
228 100
226 30.0 25.4 38.0
229 21.6 16.6 24.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 4.514 ng

RT: 16.84 min Scan# 2509

Delta R.T. 0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

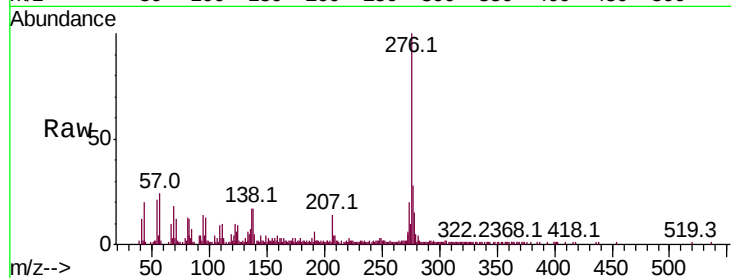
Tot Ion:276 Resp: 94495

Ion Ratio Lower Upper

276 100

138 19.2 19.6 29.4#

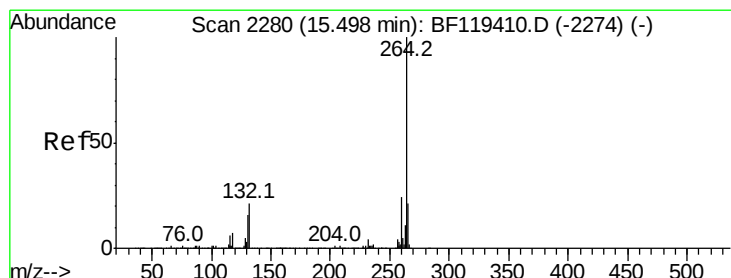
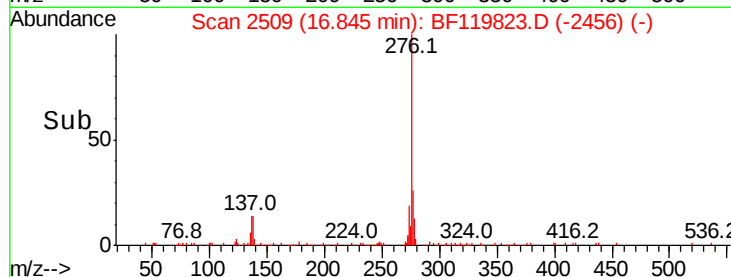
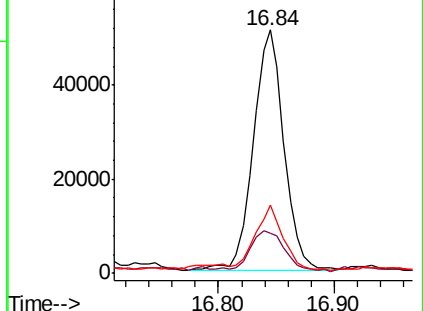
277 27.9 20.0 30.0



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# 2266

Delta R.T. 0.02 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

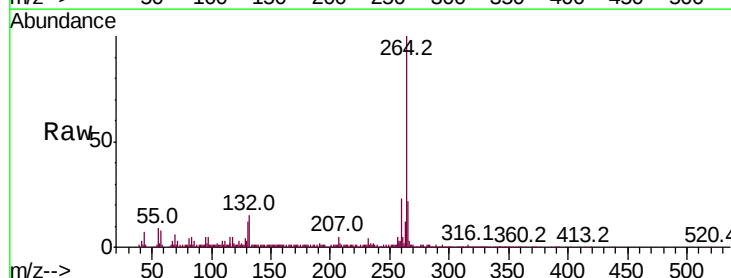
Tgt Ion:264 Resp: 179872

Ion Ratio Lower Upper

264 100

260 22.7 18.7 28.1

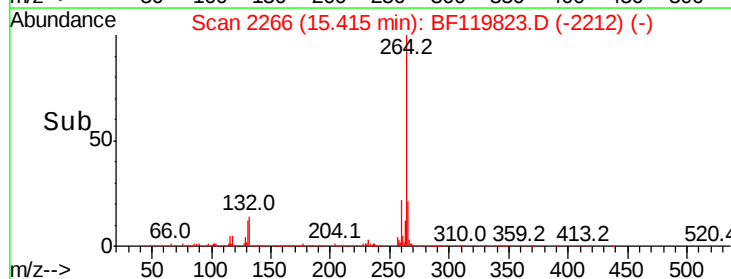
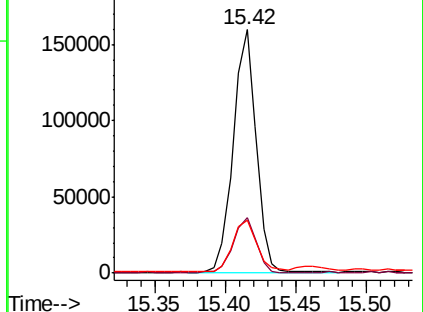
265 21.5 17.7 26.5

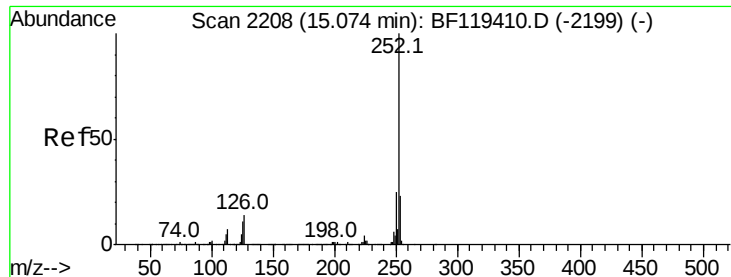


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

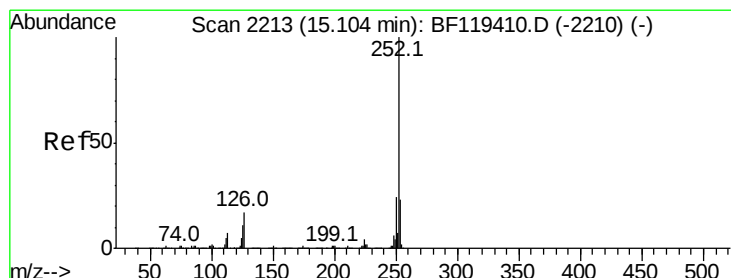
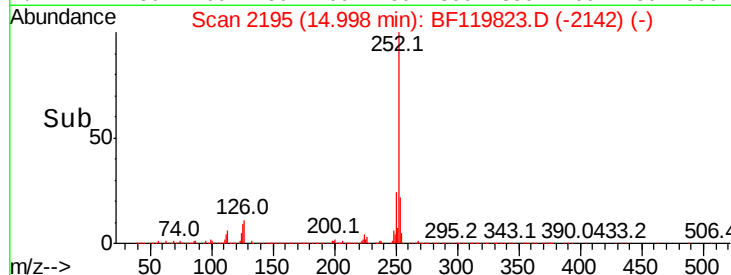
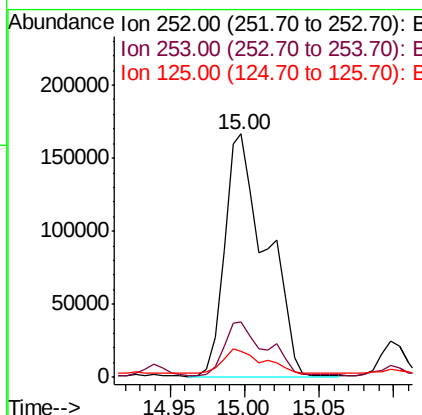
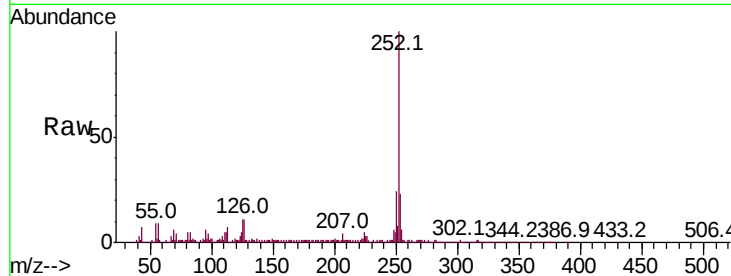




#88
Benzo(b)fluoranthene
Concen: 26.668 ng
RT: 15.00 min Scan# 2195
Delta R.T. 0.01 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

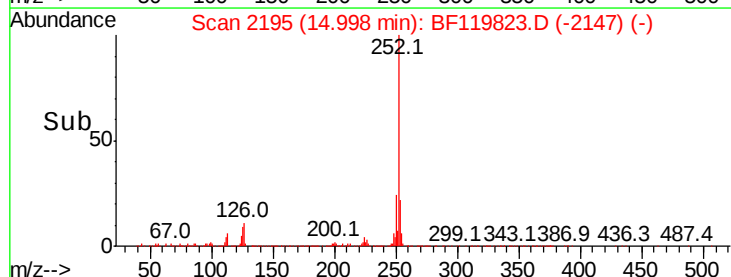
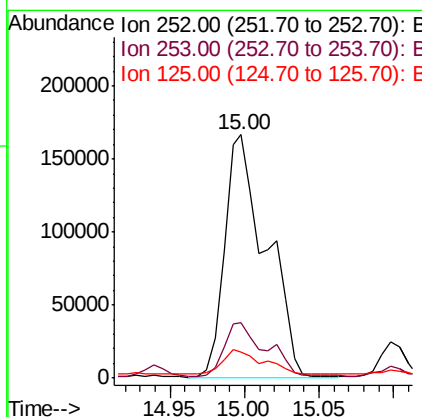
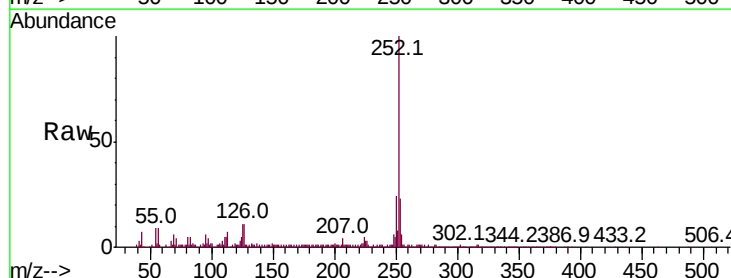
Instrument :
BNA_F
ClientSampleId :
TP-3DL

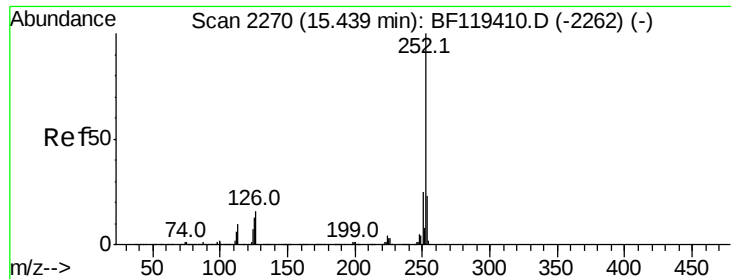
Tot Ion:252 Resp: 320429
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 10.9 7.9 11.9



#89
Benzo(k)fluoranthene
Concen: 28.007 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF119823.D
Acq: 7 Apr 2020 15:42

Tgt Ion:252 Resp: 320429
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.6
125 10.9 8.4 12.6





#90

Benzo(a)pyrene

Concen: 14.647 ng

RT: 15.35 min Scan# 2255

Delta R.T. 0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

Instrument :

BNA_F

ClientSampleId :

TP-3DL

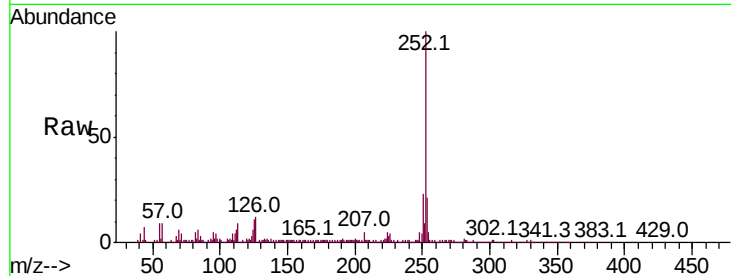
Tot Ion:252 Resp: 159935

Ion Ratio Lower Upper

252 100

253 21.5 18.2 27.2

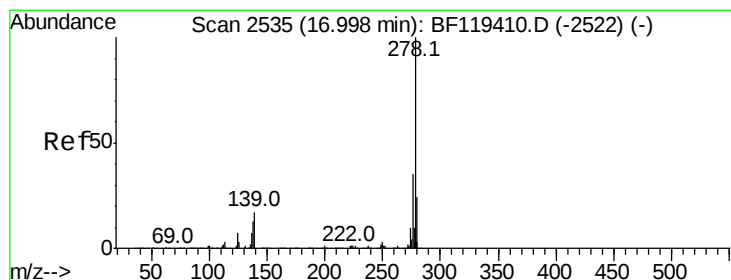
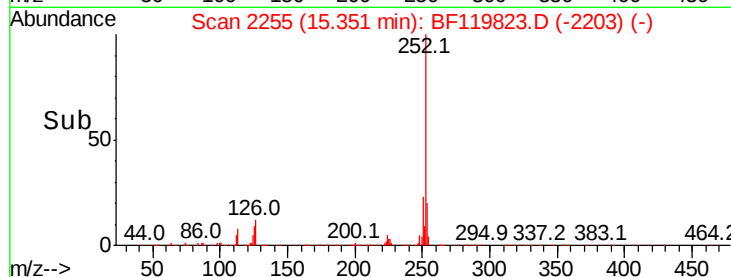
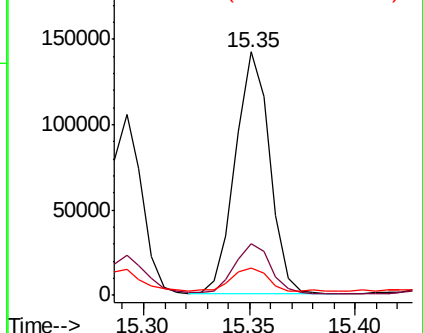
125 11.1 9.4 14.2



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



#91

Dibenzo(a,h)anthracene

Concen: 2.192 ng

RT: 16.86 min Scan# 2511

Delta R.T. 0.01 min

Lab File: BF119823.D

Acq: 7 Apr 2020 15:42

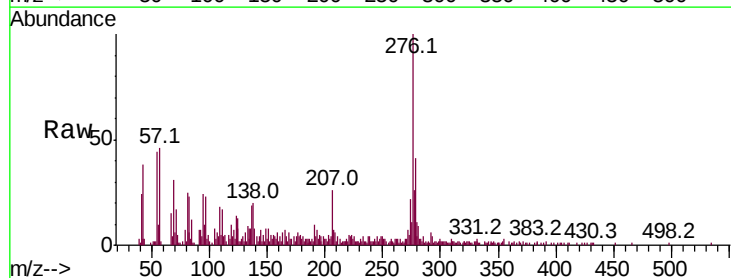
Tgt Ion:278 Resp: 20939

Ion Ratio Lower Upper

278 100

139 20.7 12.6 19.0#

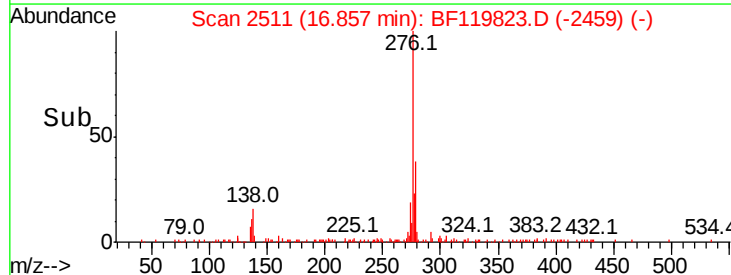
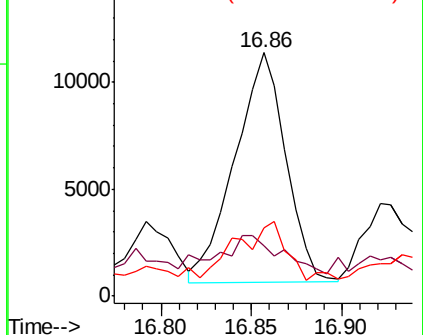
279 28.1 19.0 28.6

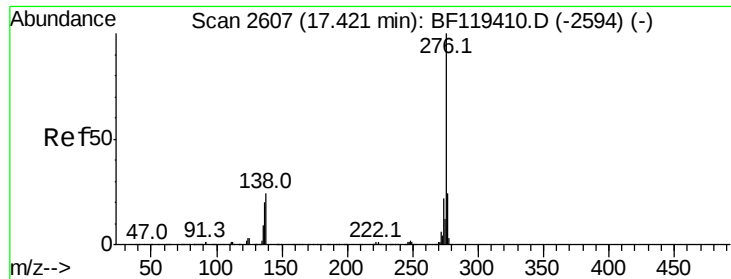


Abundance Ion 278.00 (277.70 to 278.70): E

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: 9.144 ng
 RT: 17.27 min Scan# 2582
 Delta R.T. 0.01 min
 Lab File: BF119823.D
 Acq: 7 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-3DL

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.6	18.4	27.6	
138	17.6	15.4	23.0	

