

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
 Data File : BF116999.D
 Acq On : 12 Sep 2019 18:29
 Operator : HP/JU
 Sample : K4663-04 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 13 07:46:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 08:24:39 2019
 Response via : Initial Calibration

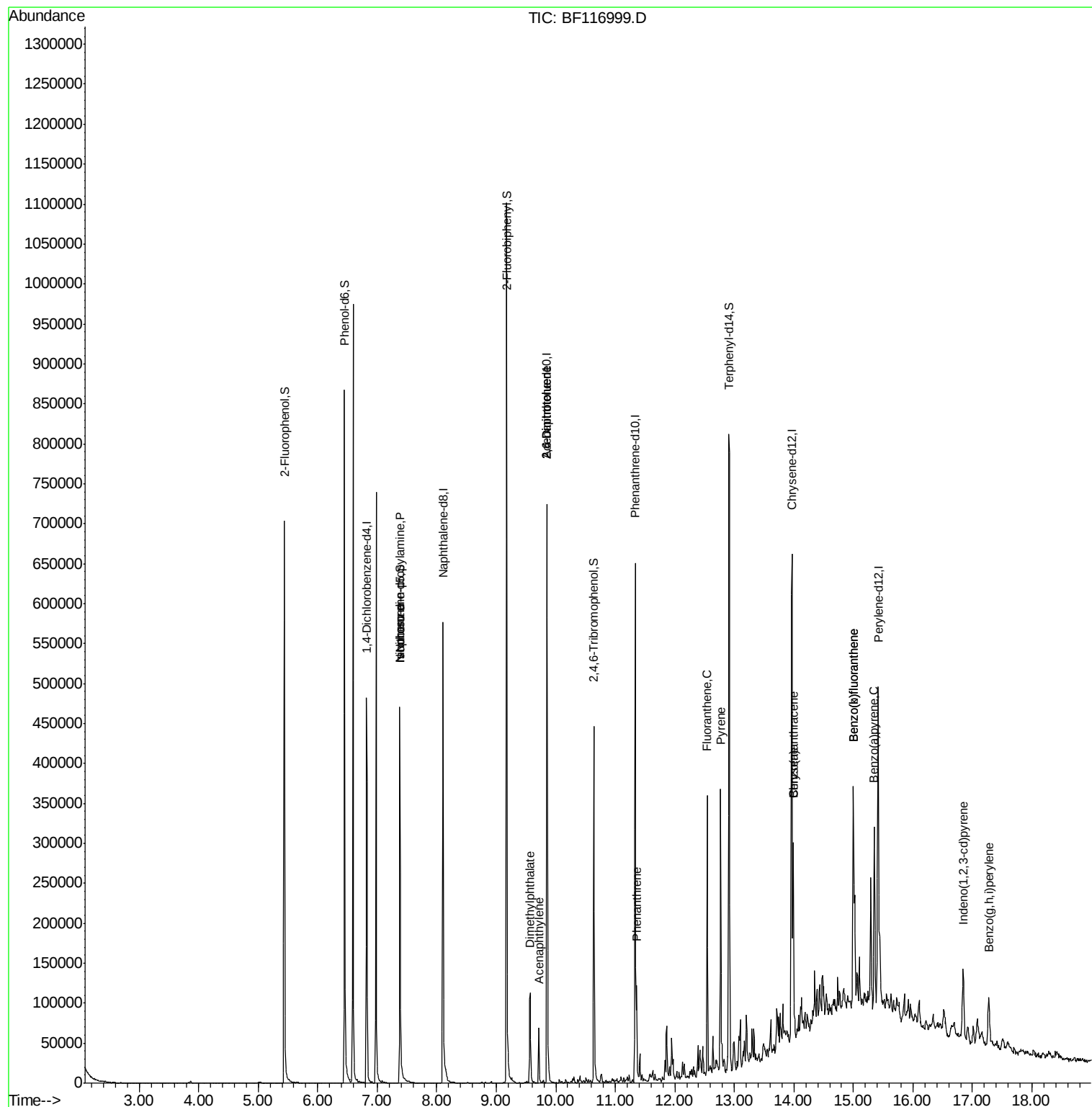
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	73105	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	310582	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	157147	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	235164	20.00	ng	0.00
76) Chrysene-d12	13.97	240	155977	20.00	ng	0.00
87) Perylene-d12	15.42	264	171119	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	210293	46.60	ng	0.00
7) Phenol-d6	6.45	99	294635	49.72	ng	-0.01
23) Nitrobenzene-d5	7.38	82	184909	33.99	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	53199	50.64	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	353019	37.89	ng	0.00
79) Terphenyl-d14	12.92	244	263996	31.31	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.38	70	23372	5.991	ng	# 78
25) Isophorone	7.38	82	184925	16.774	ng	# 66
49) Acenaphthylene	9.72	152	35561	2.491	ng	98
50) Dimethylphthalate	9.57	163	58429	5.385	ng	97
51) 2,6-Dinitrotoluene	9.85	165	20205	9.761	ng	# 26
57) 2,4-Dinitrotoluene	9.85	165	20205	7.983	ng	# 18
71) Phenanthrene	11.36	178	39467	3.015	ng	98
75) Fluoranthene	12.55	202	137052	10.653	ng	98
78) Pyrene	12.77	202	155099	11.186	ng	98
81) Benzo(a)anthracene	13.99	228	86773	8.790	ng	95
83) Chrysene	13.99	228	86773	8.532	ng	97
86) Indeno(1,2,3-cd)pyrene	16.84	276	54334	6.651	ng	98
88) Benzo(b)fluoranthene	15.00	252	185227	17.904	ng	98
89) Benzo(k)fluoranthene	15.00	252	185227	19.636	ng	95
90) Benzo(a)pyrene	15.35	252	96616	10.734	ng	95
92) Benzo(g,h,i)perylene	17.27	276	49970	6.219	ng	97

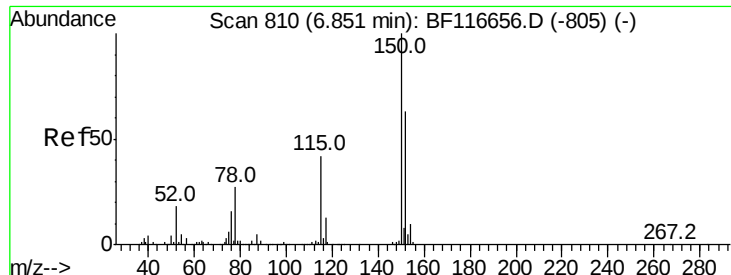
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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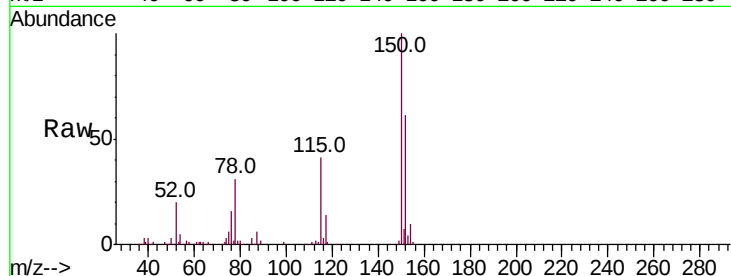


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.8	126.2	189.2
115	67.8	50.2	75.2

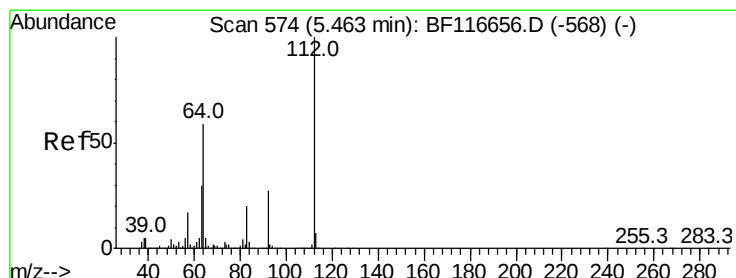
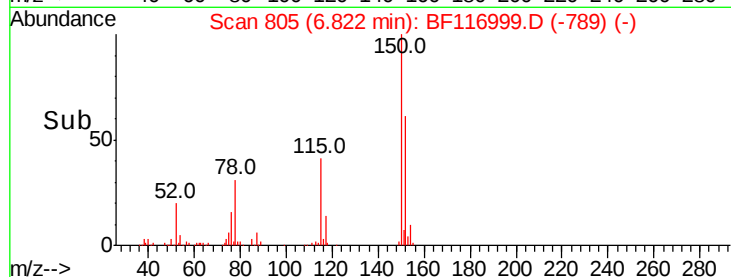
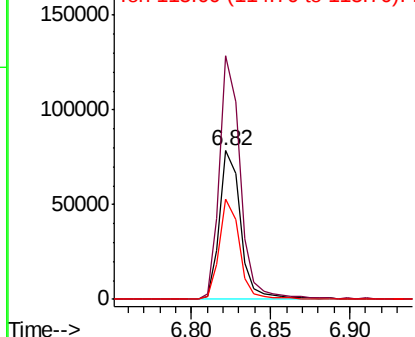


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

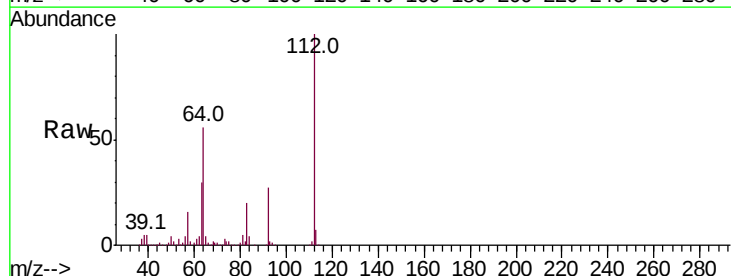
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 46.602 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	47.1	70.7
63	30.4	25.4	38.0

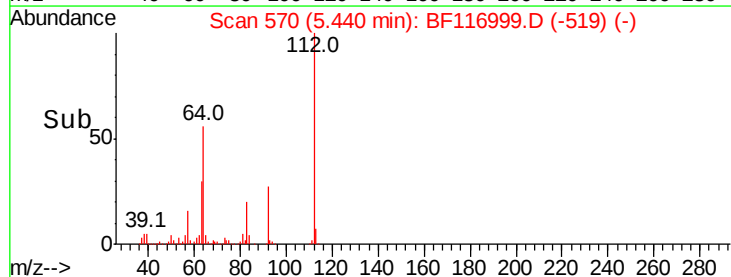
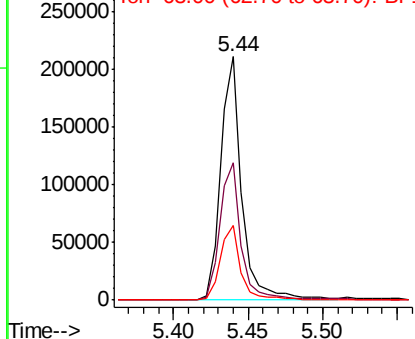


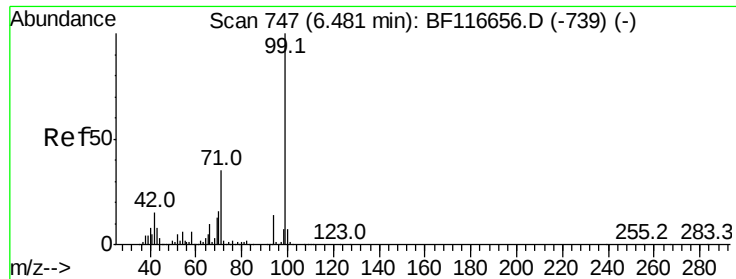
Abundance

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: 49.724 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

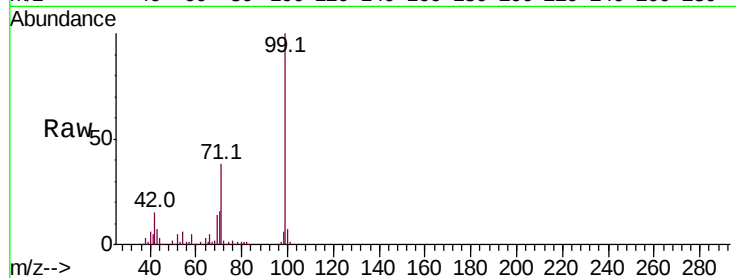
Tot Ion: 99 Resp: 294635

Ion Ratio Lower Upper

99 100

42 14.9 12.0 18.0

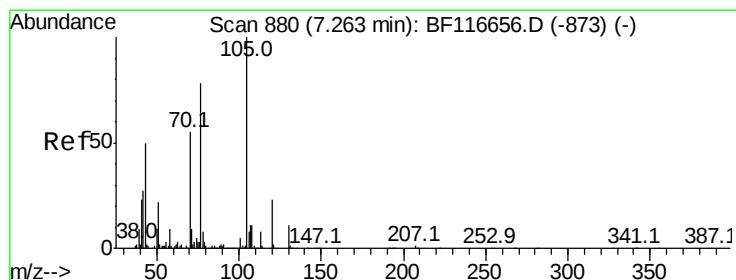
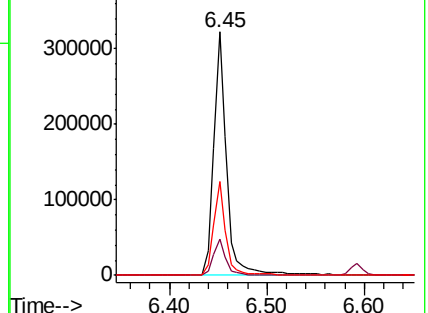
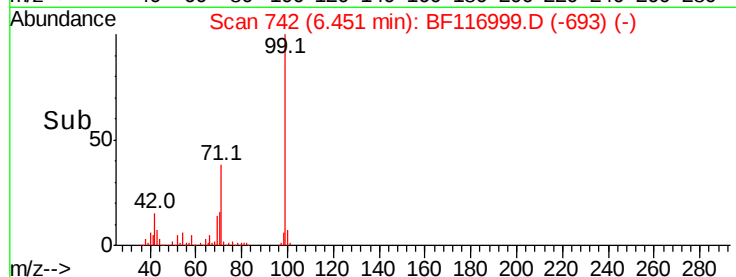
71 38.4 29.7 44.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 5.991 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.14 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Tgt Ion: 70 Resp: 23372

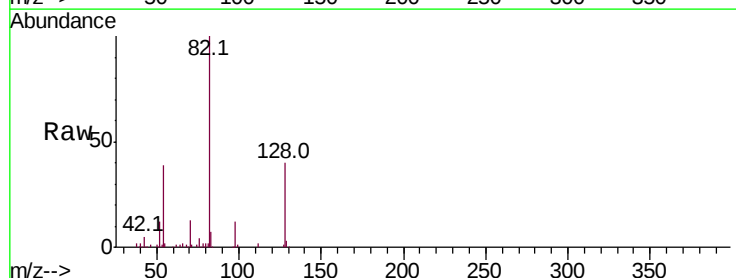
Ion Ratio Lower Upper

70 100

42 37.2 37.0 55.4

101 0.0 7.4 11.2#

130 1.7 16.0 24.0#

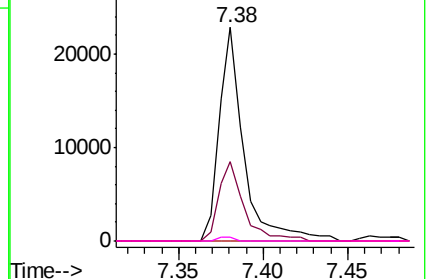
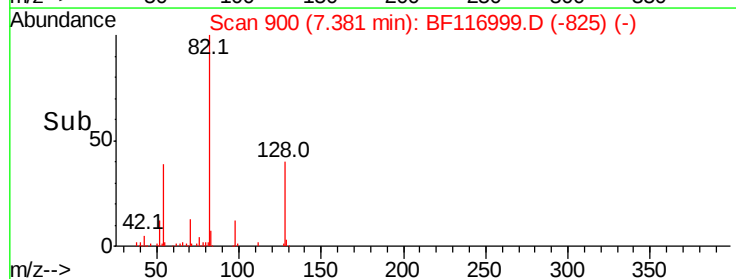


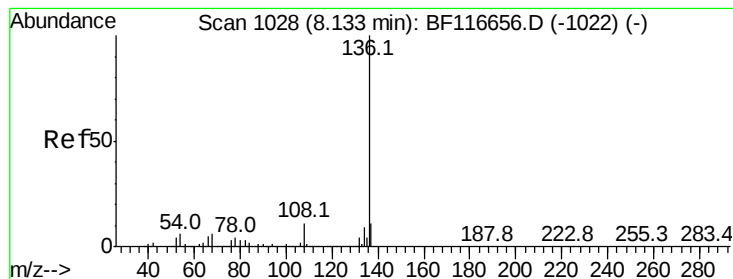
Abundance Ion 70.00 (69.70 to 70.70): BF1

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. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 310582

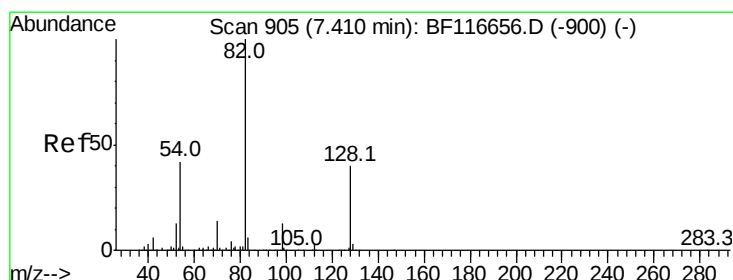
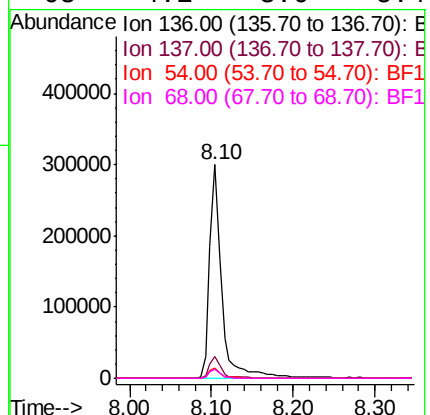
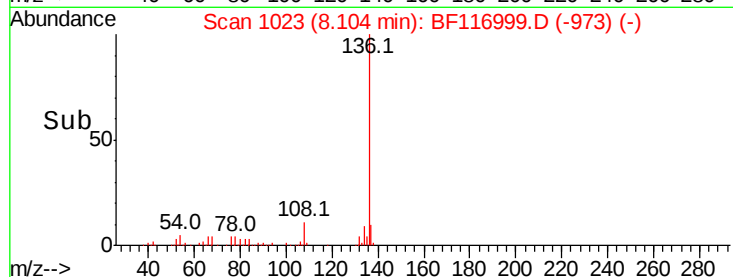
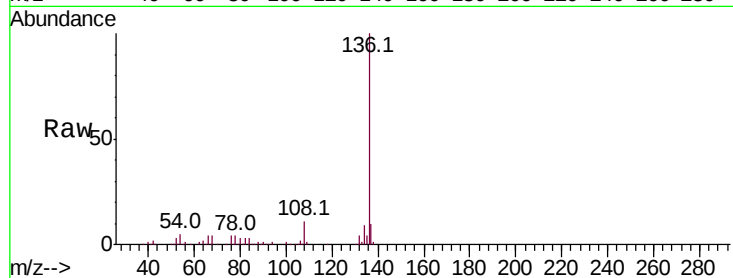
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 5.1 3.8 5.8

68 4.1 3.6 5.4



#23

Nitrobenzene-d5

Concen: 33.988 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

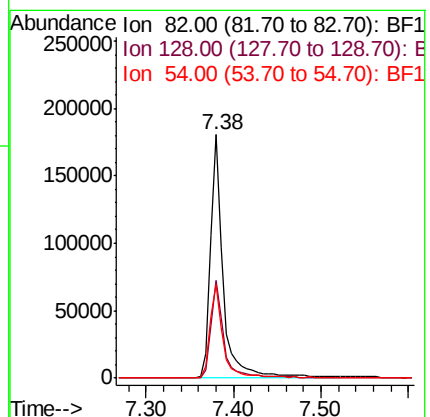
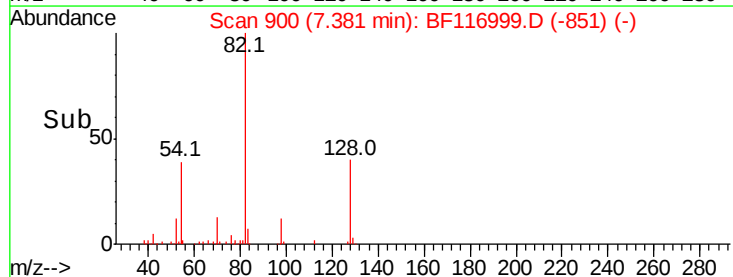
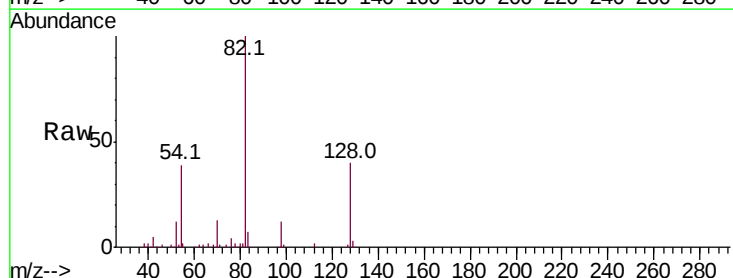
Tgt Ion: 82 Resp: 184909

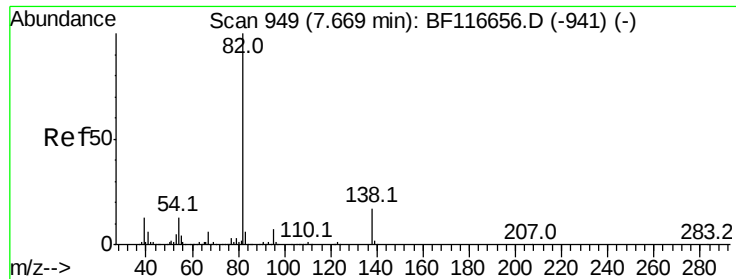
Ion Ratio Lower Upper

82 100

128 40.1 35.0 52.4

54 38.8 32.6 48.8





#25

Isophorone

Concen: 16.774 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.26 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampled :

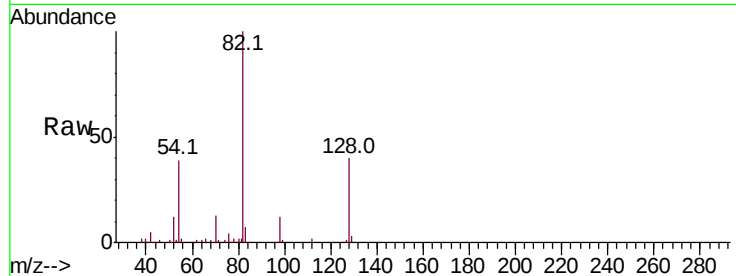
Tot Ion: 82 Resp: 184925

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

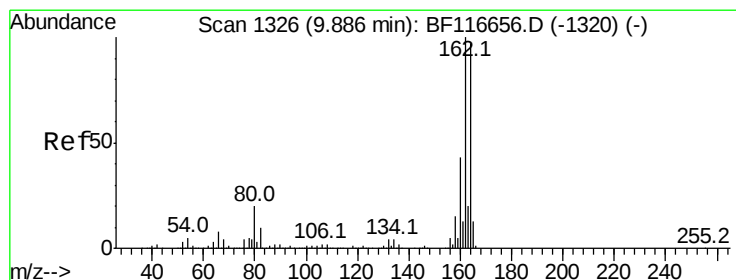
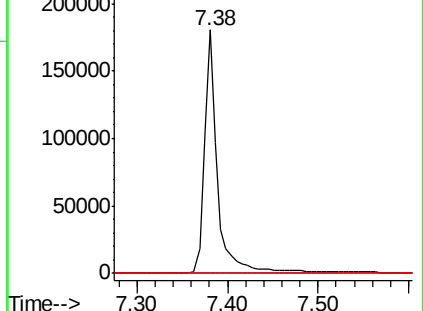
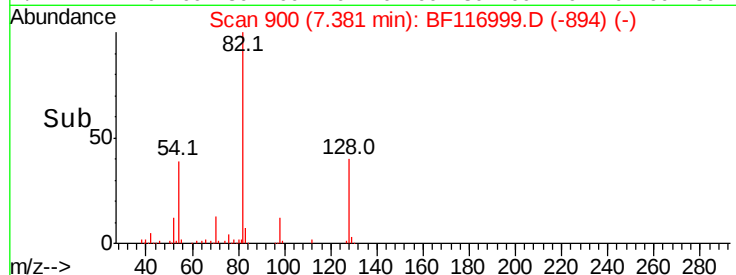
138 0.0 13.4 20.2#



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: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

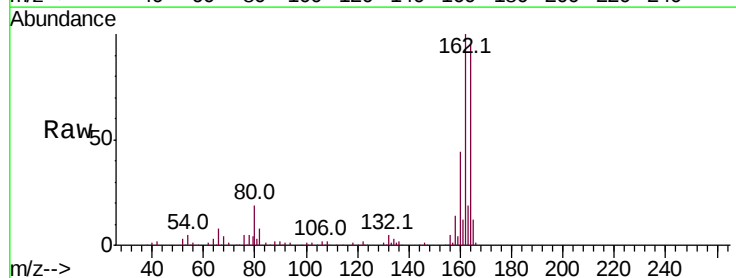
Tgt Ion: 164 Resp: 157147

Ion Ratio Lower Upper

164 100

162 105.5 81.8 122.6

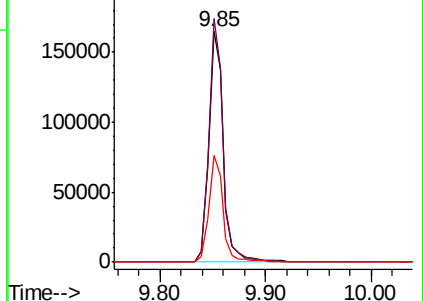
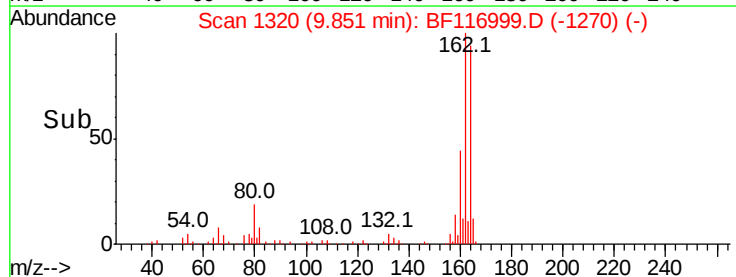
160 46.1 35.7 53.5

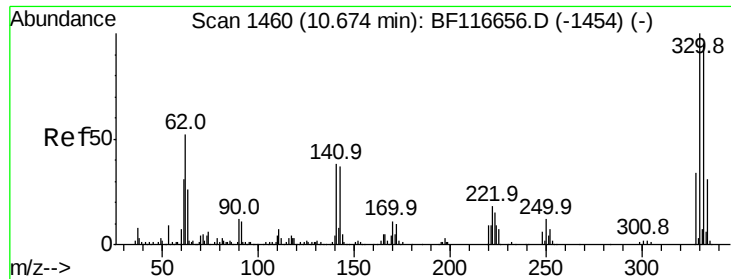


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

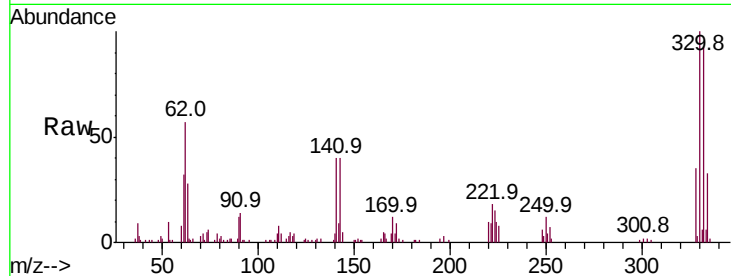




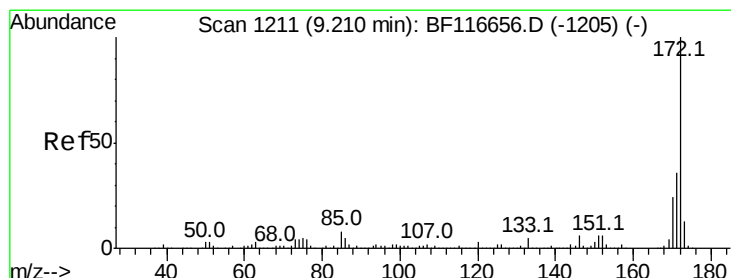
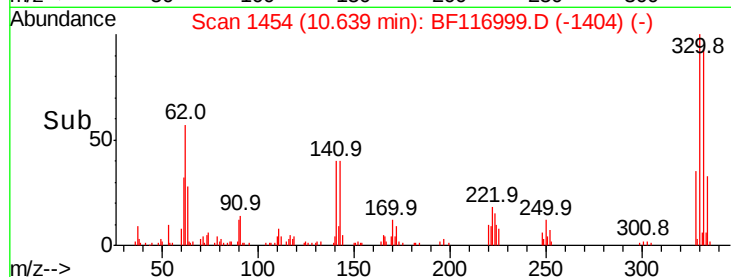
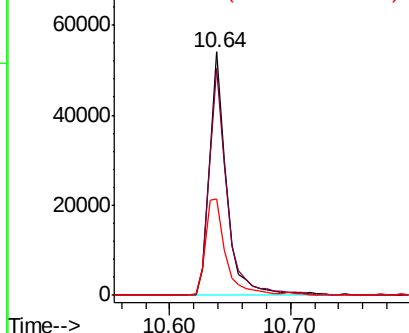
#42
 2,4,6-Tribromophenol
 Concen: 50.639 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF116999.D
 Acq: 12 Sep 2019 18:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	75.9	113.9
141	46.1	35.6	53.4

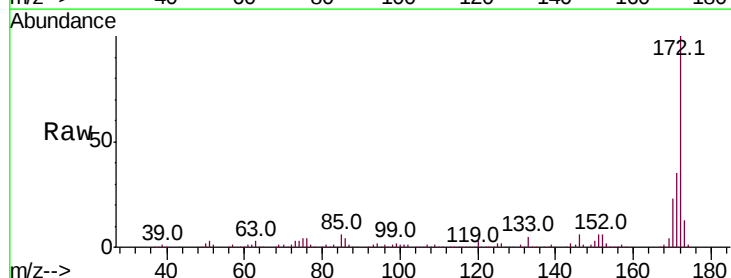


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

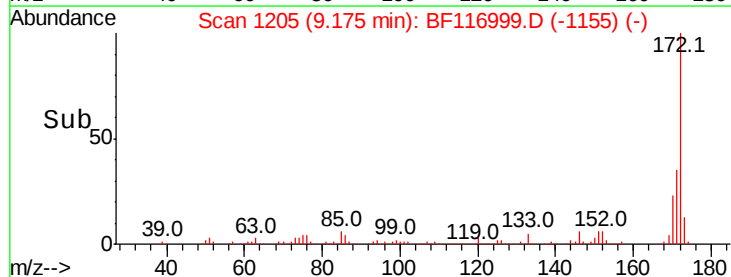
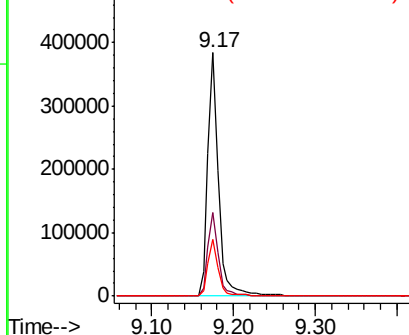


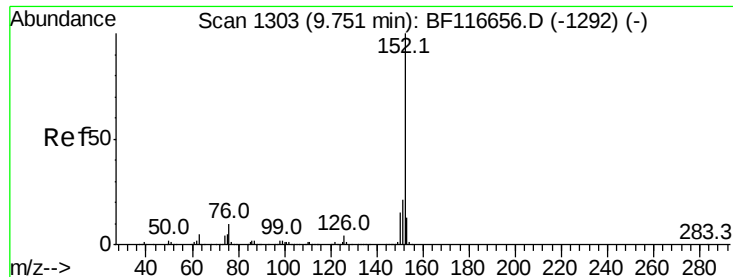
#45
 2-Fluorobiphenyl
 Concen: 37.895 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: BF116999.D
 Acq: 12 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.1	43.7
170	23.1	19.2	28.8



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





#49

Acenaphthylene

Concen: 2.491 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

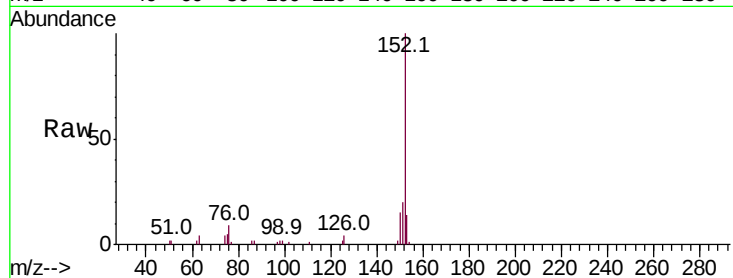
Tot Ion:152 Resp: 35561

Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

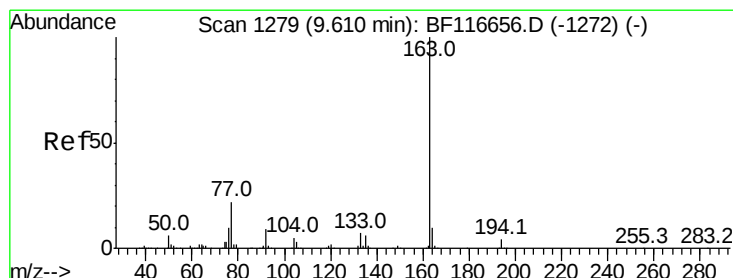
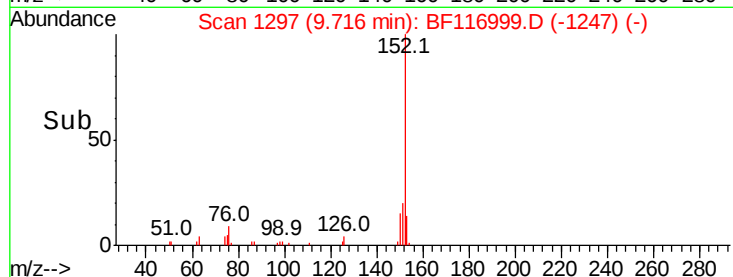
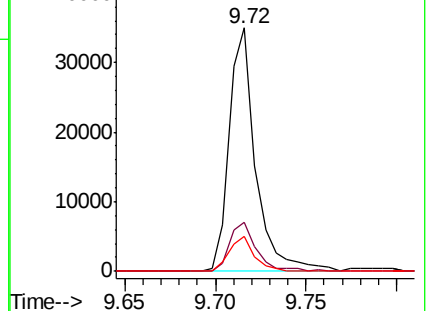
153 14.4 10.3 15.5



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: 5.385 ng

RT: 9.57 min Scan# 1272

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

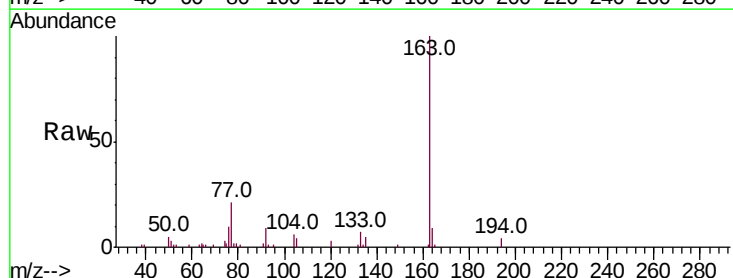
Tgt Ion:163 Resp: 58429

Ion Ratio Lower Upper

163 100

194 4.0 2.7 4.1

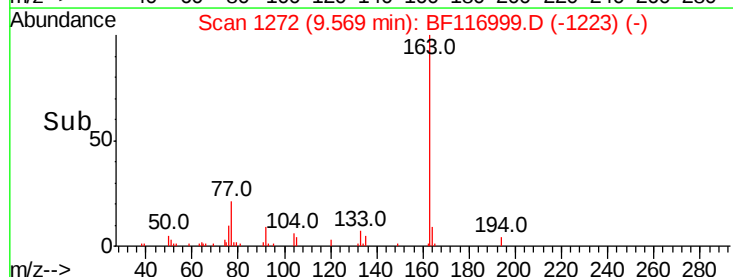
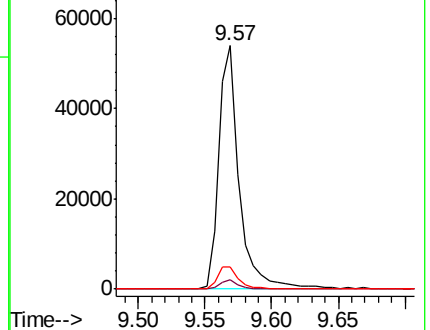
164 9.2 8.2 12.4

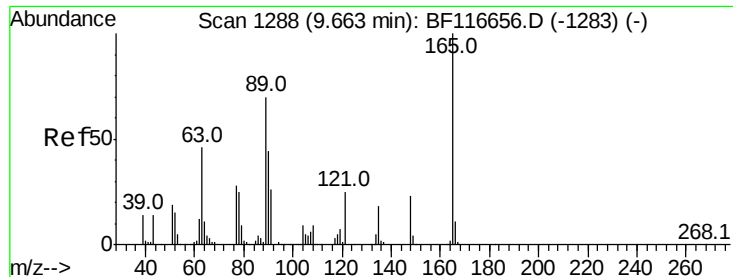


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 9.761 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.21 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampled :

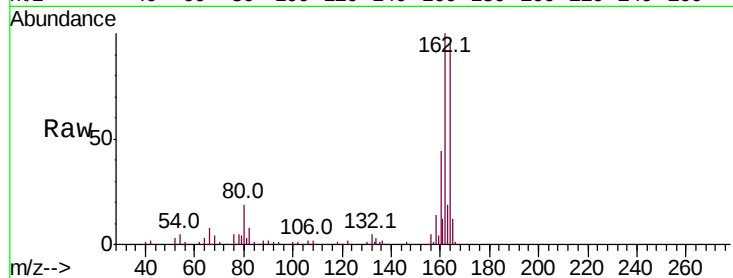
Tot Ion:165 Resp: 20205

Ion Ratio Lower Upper

165 100

63 0.0 38.0 57.0#

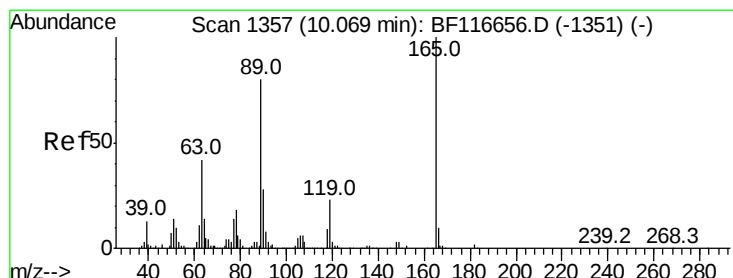
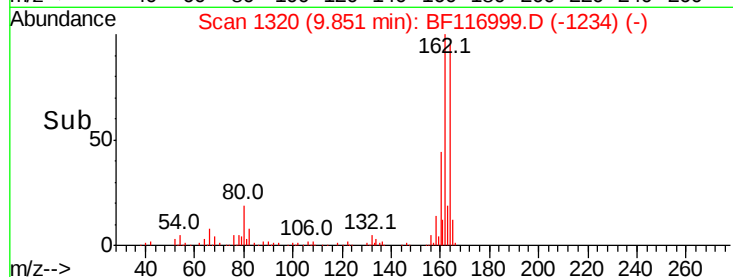
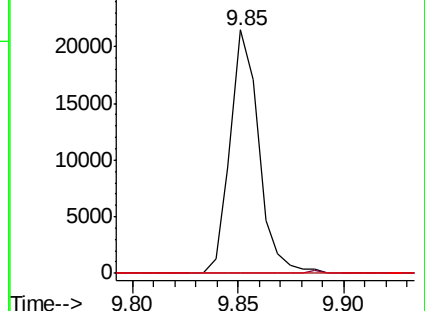
89 0.0 44.1 66.1#



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



#57

2,4-Dinitrotoluene

Concen: 7.983 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.19 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Tgt Ion:165 Resp: 20205

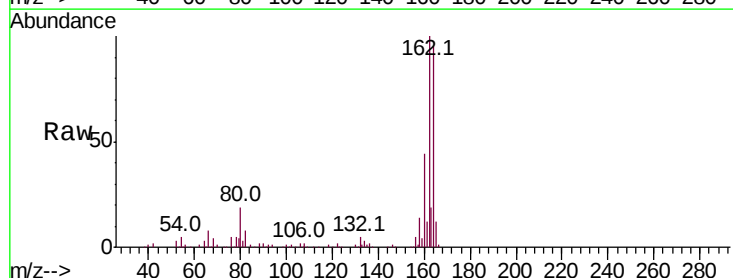
Ion Ratio Lower Upper

165 100

63 0.0 36.2 54.2#

89 0.0 66.1 99.1#

182 0.0 1.8 2.8#

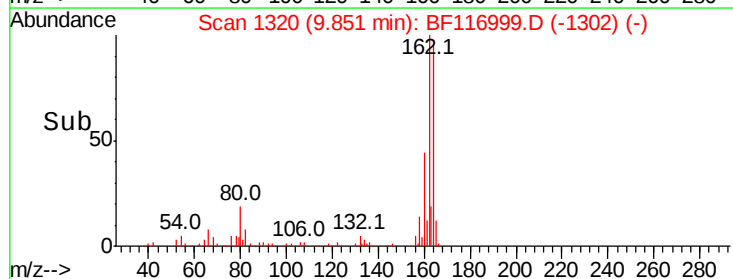
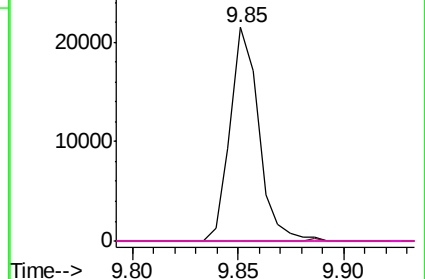


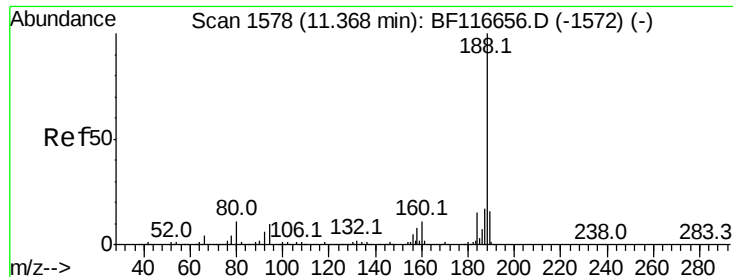
Abundance Ion 165.00 (164.70 to 165.70): E

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# 1572

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

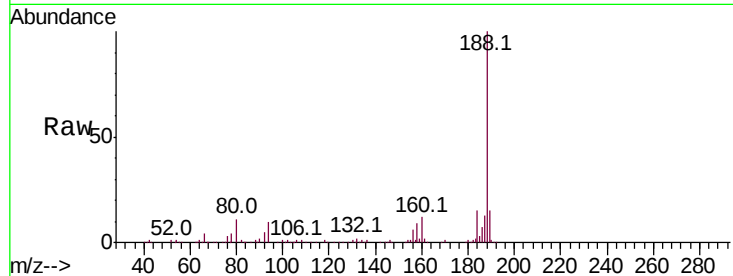
Tot Ion:188 Resp: 235164

Ion Ratio Lower Upper

188 100

94 9.6 7.4 11.2

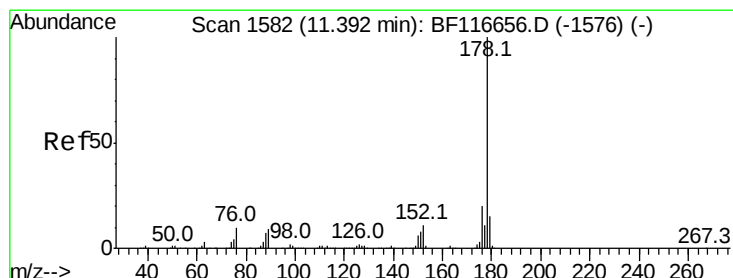
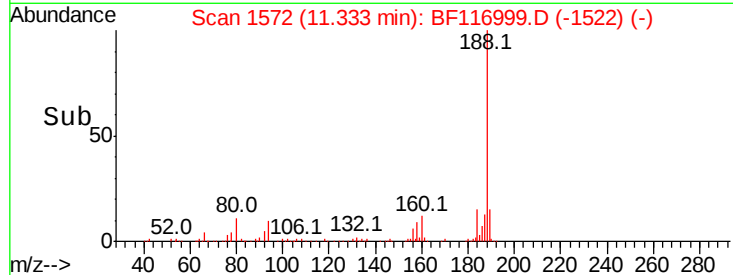
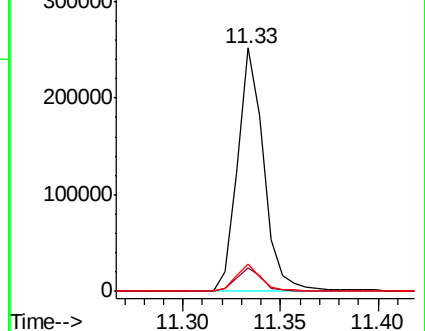
80 11.1 8.5 12.7



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: 3.015 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

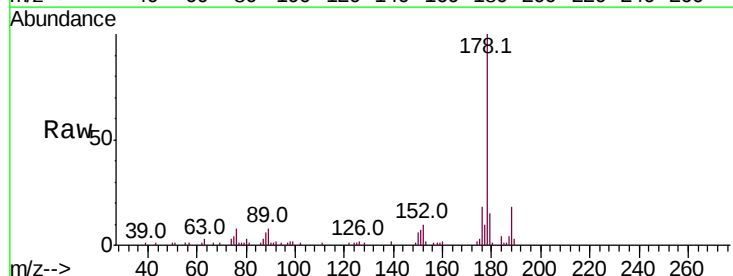
Tgt Ion:178 Resp: 39467

Ion Ratio Lower Upper

178 100

176 18.4 15.7 23.5

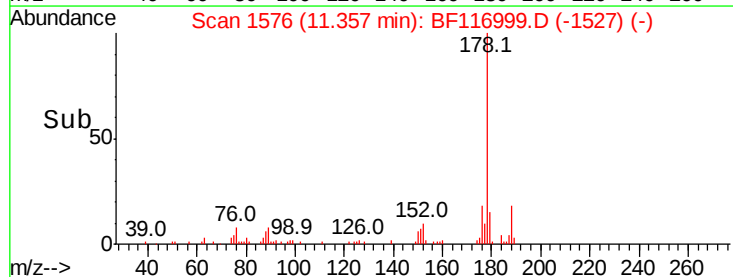
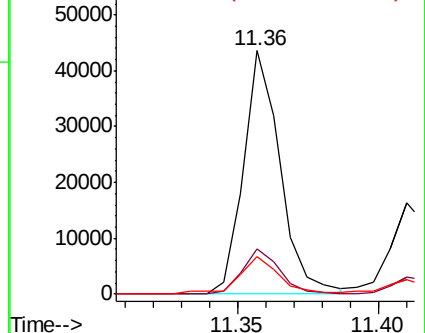
179 15.3 12.0 18.0

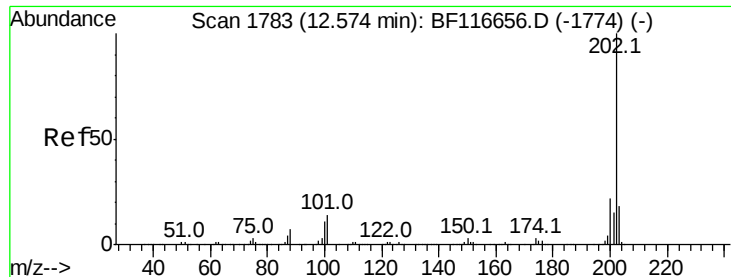


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 10.653 ng

RT: 12.55 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

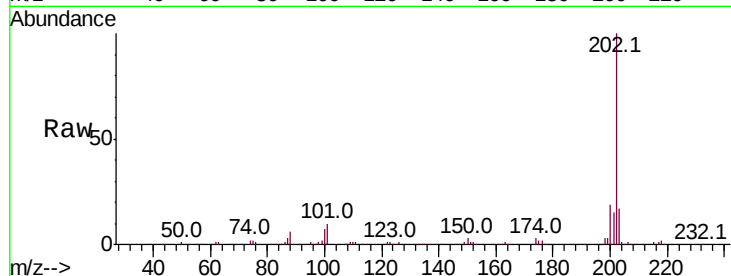
Tot Ion:202 Resp: 137052

Ion Ratio Lower Upper

202 100

101 10.4 0.0 32.0

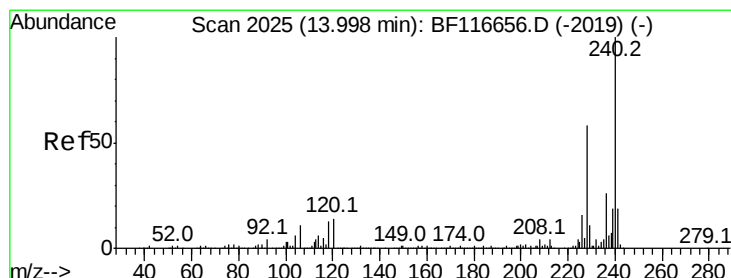
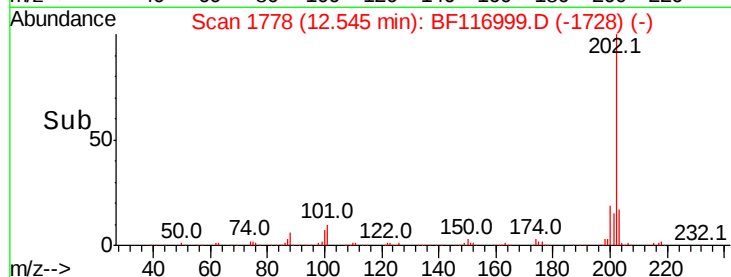
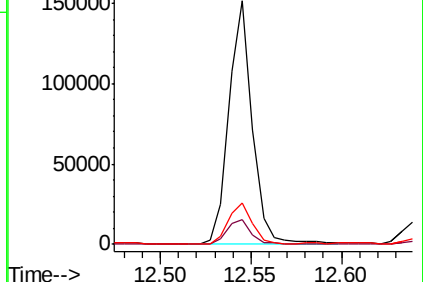
203 17.2 0.0 37.5



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: BF116999.D

Acq: 12 Sep 2019 18:29

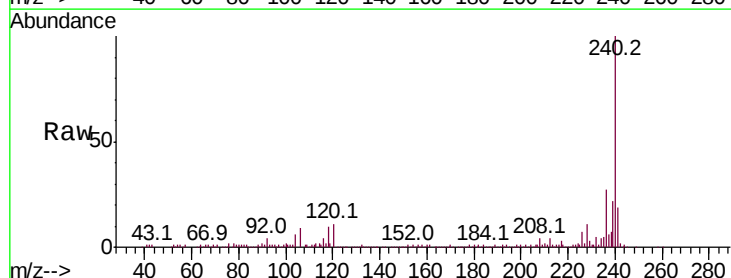
Tgt Ion:240 Resp: 155977

Ion Ratio Lower Upper

240 100

120 11.2 9.1 13.7

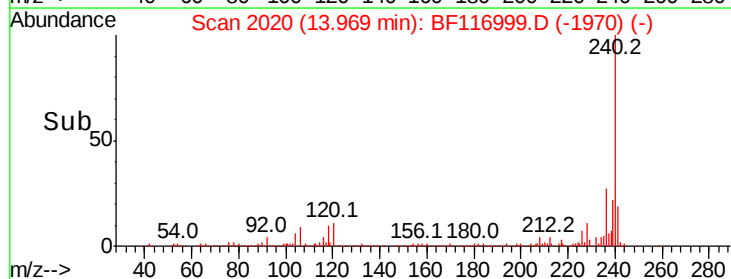
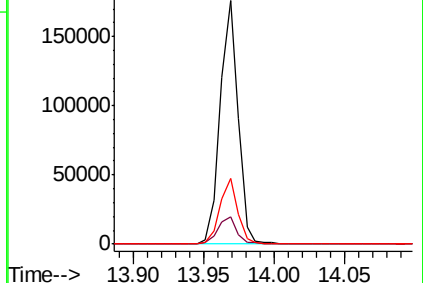
236 27.0 20.9 31.3

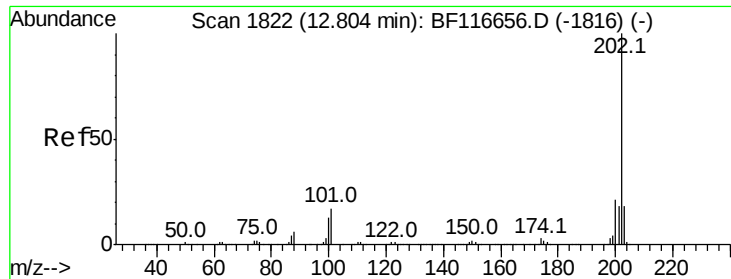


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

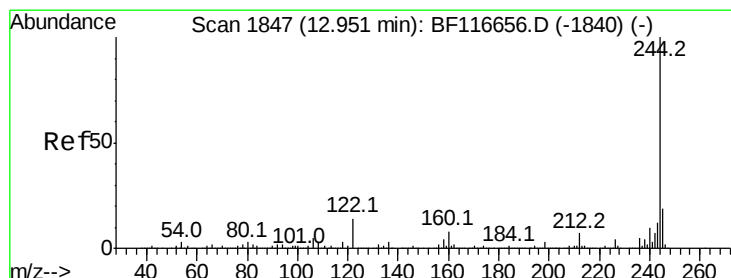
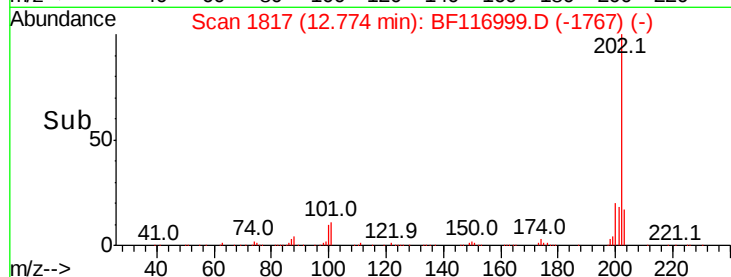
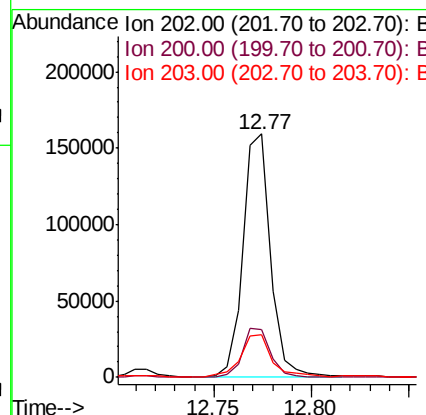
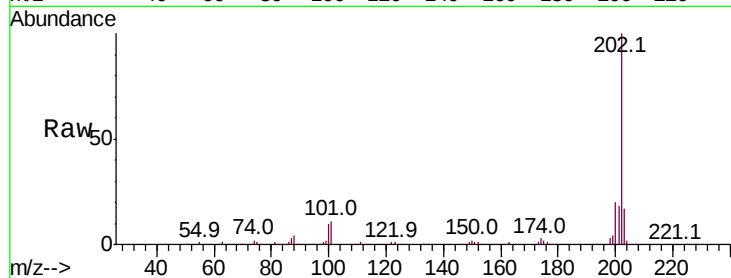




#78
Pvrene
Concen: 11.186 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

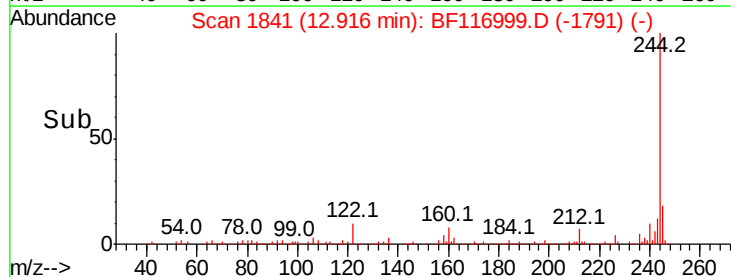
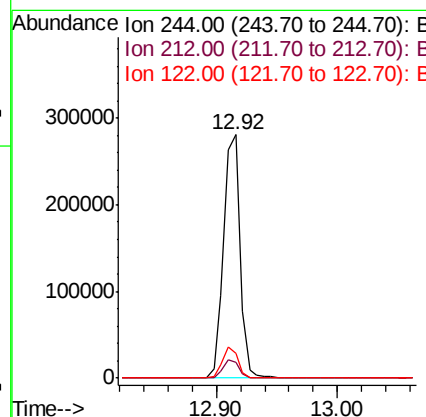
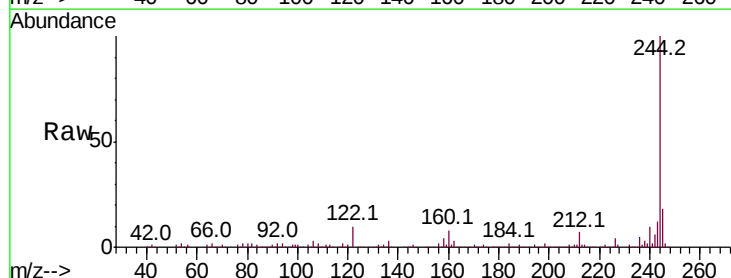
Instrument :
BNA_F
ClientSampleId :

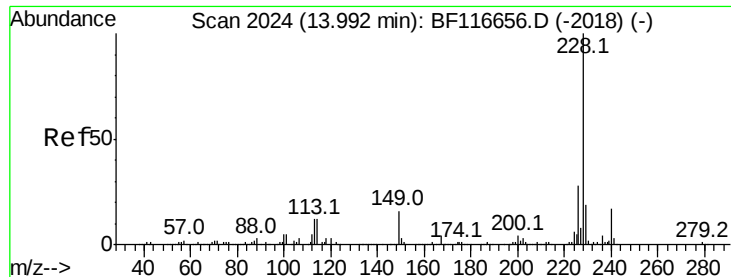
Tot Ion:202 Resp: 155099
Ion Ratio Lower Upper
202 100
200 19.8 17.2 25.8
203 17.4 14.2 21.2



#79
Terphenyl-d14
Concen: 31.311 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Tgt Ion:244 Resp: 263996
Ion Ratio Lower Upper
244 100
212 6.5 5.7 8.5
122 10.0 11.5 17.3#

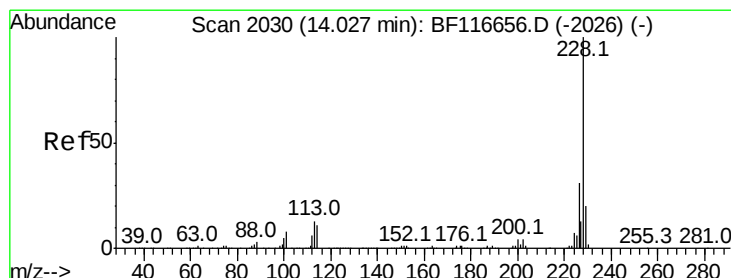
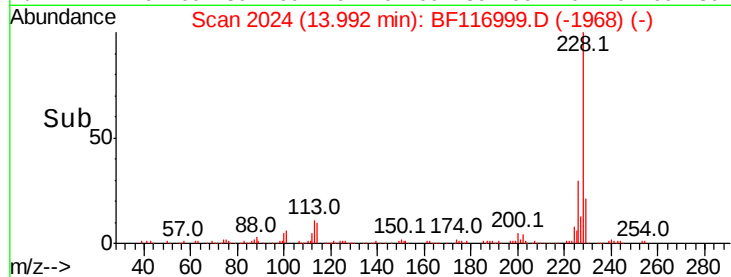
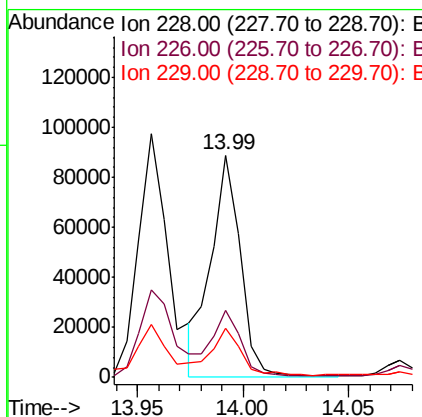
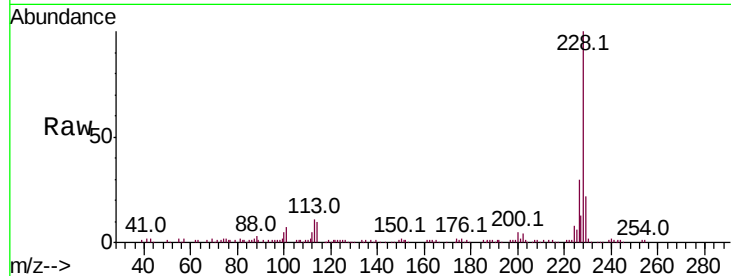




#81
Benzo(a)anthracene
Concen: 8.790 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.03 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

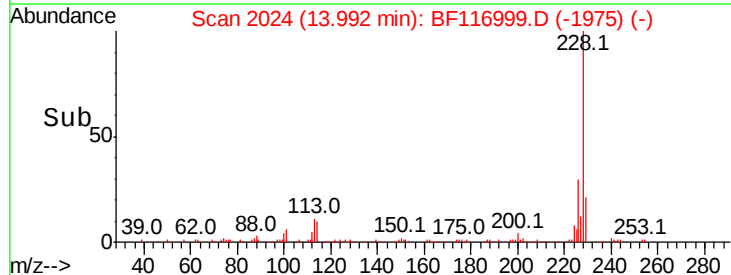
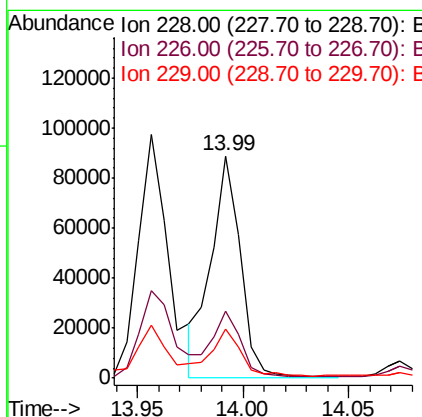
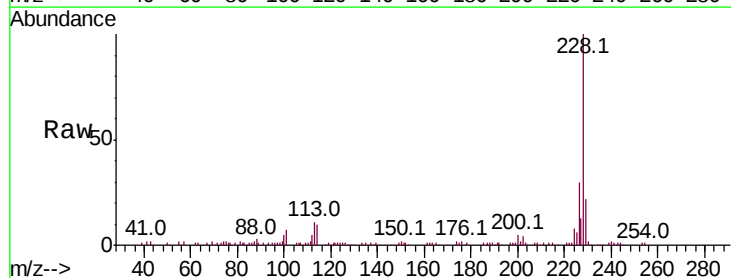
Instrument :
BNA_F
ClientSampleId :

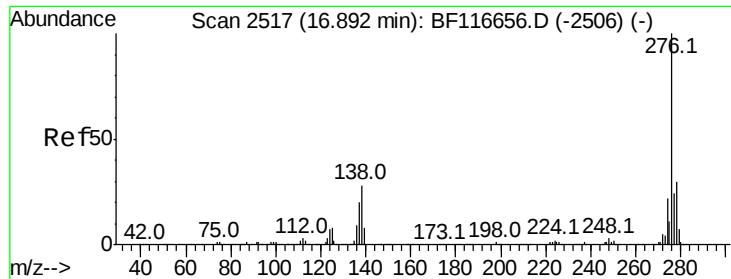
Tot Ion:228 Resp: 86773
Ion Ratio Lower Upper
228 100
226 30.3 22.3 33.5
229 22.2 15.8 23.8



#83
Chrysene
Concen: 8.532 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Tgt Ion:228 Resp: 86773
Ion Ratio Lower Upper
228 100
226 30.3 24.5 36.7
229 22.2 15.7 23.5

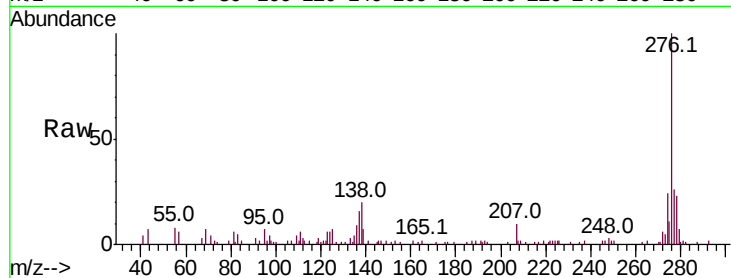




#86
Indeno(1,2,3-cd)pyrene
Concen: 6.651 ng
RT: 16.84 min Scan# 2509
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.9	20.6	31.0
277	24.3	19.9	29.9

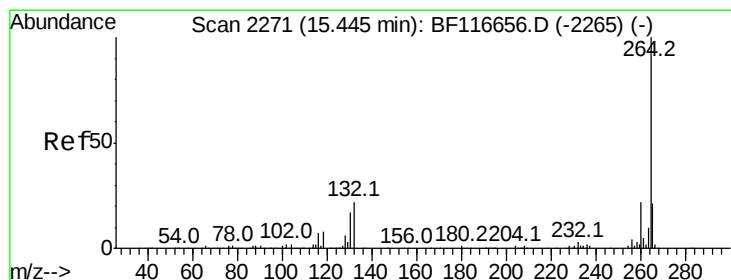
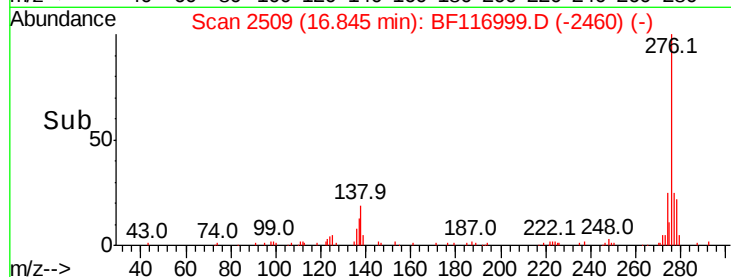
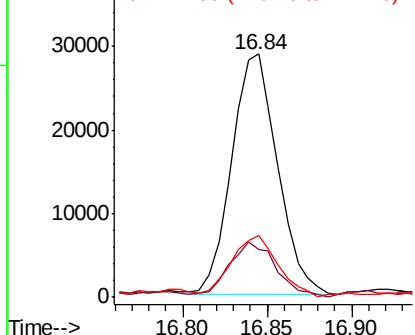


Abundance

Ion 276.00 (275.70 to 276.70): E

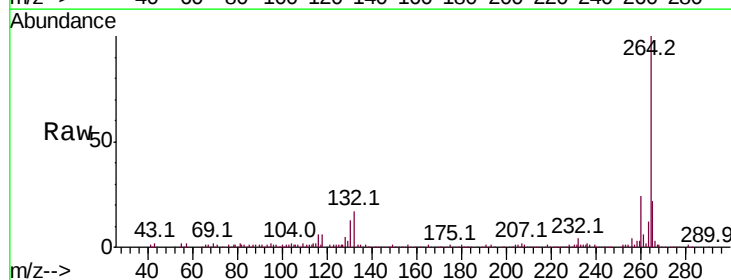
Ion 138.00 (137.70 to 138.70): E

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. 0.00 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.0	28.4
265	22.1	17.9	26.9

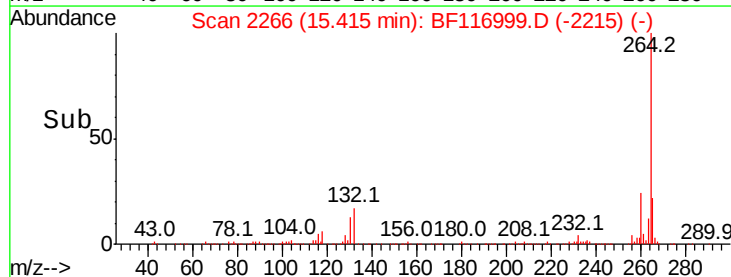
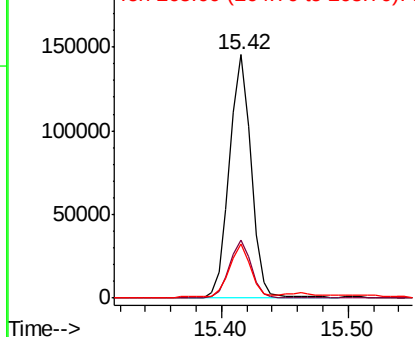


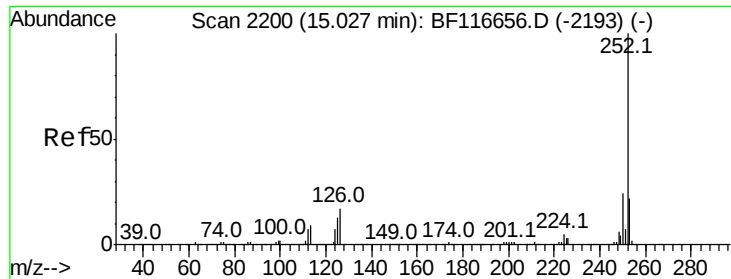
Abundance

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

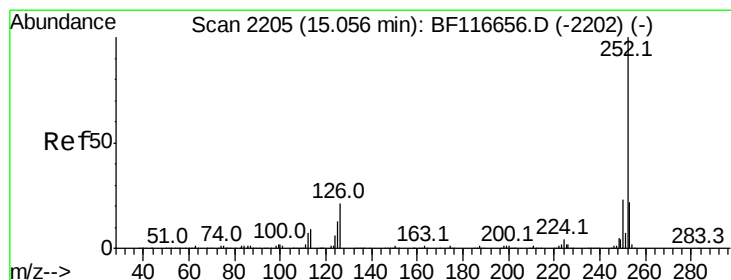
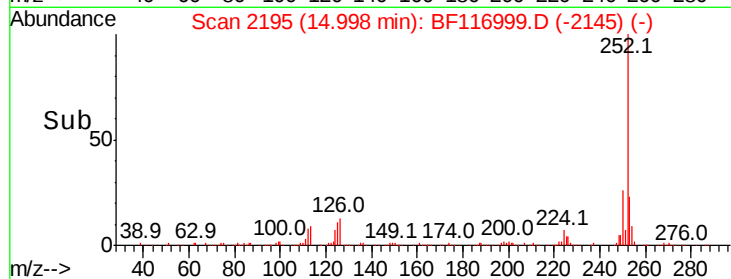
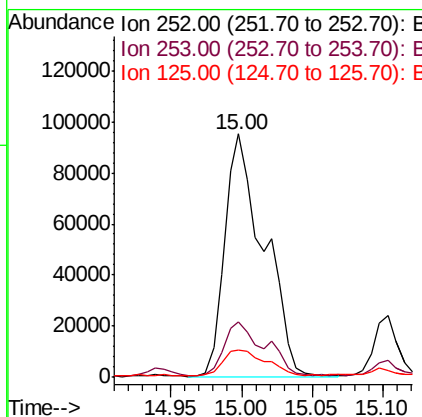
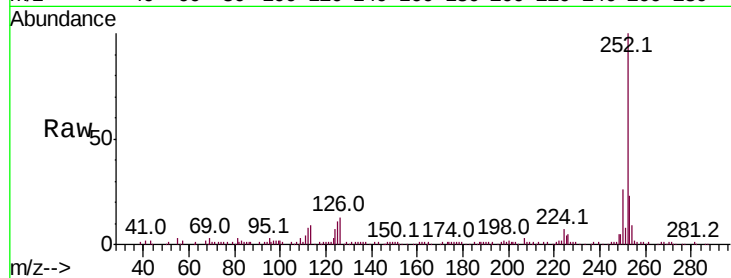




#88
Benzo(b)fluoranthene
Concen: 17.904 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

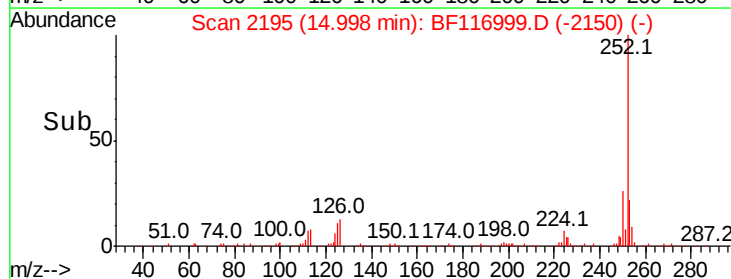
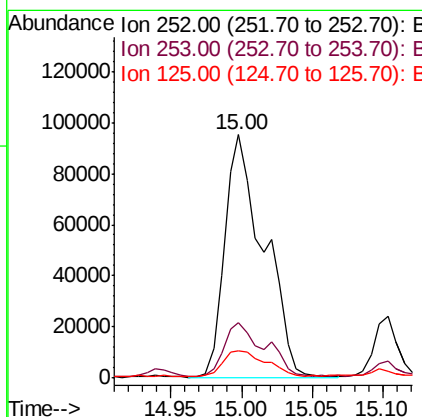
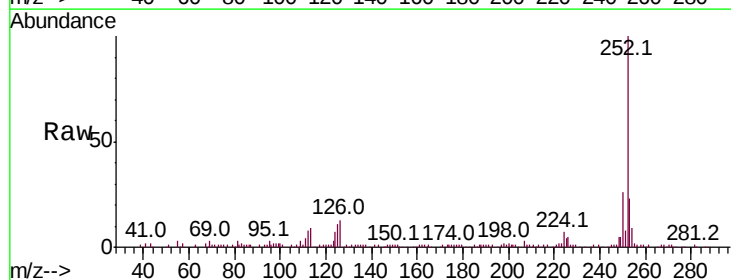
Instrument :
BNA_F
ClientSampleId :

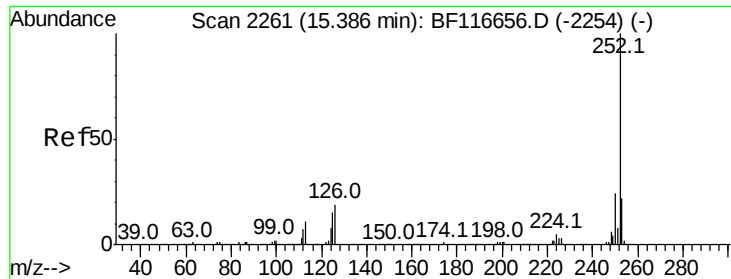
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	11.4	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 19.636 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.04 min
Lab File: BF116999.D
Acq: 12 Sep 2019 18:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	16.8	25.2
125	11.4	7.6	11.4





#90

Benzo(a)pyrene

Concen: 10.734 ng

RT: 15.35 min Scan# 2255

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

Instrument :

BNA_F

ClientSampleId :

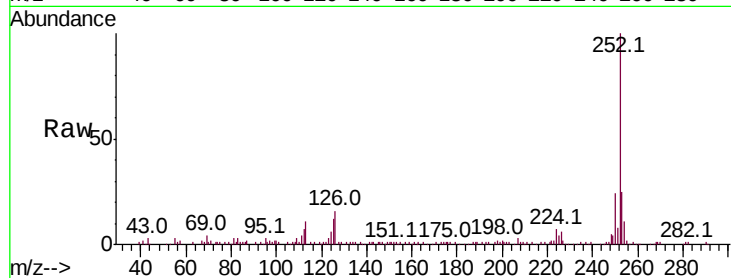
Tot Ion:252 Resp: 96616

Ion Ratio Lower Upper

252 100

253 24.7 17.6 26.4

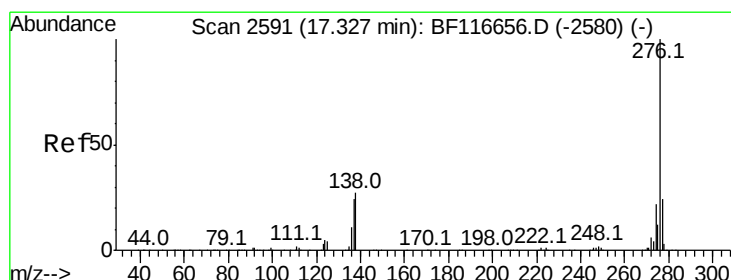
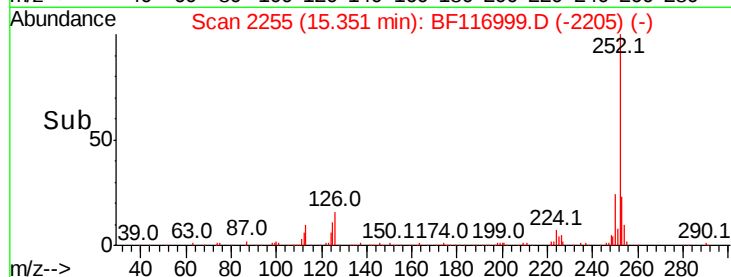
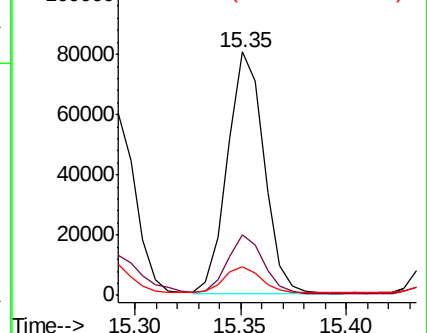
125 11.6 10.2 15.2



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



#92

Benzo(g,h,i)perylene

Concen: 6.219 ng

RT: 17.27 min Scan# 2582

Delta R.T. -0.01 min

Lab File: BF116999.D

Acq: 12 Sep 2019 18:29

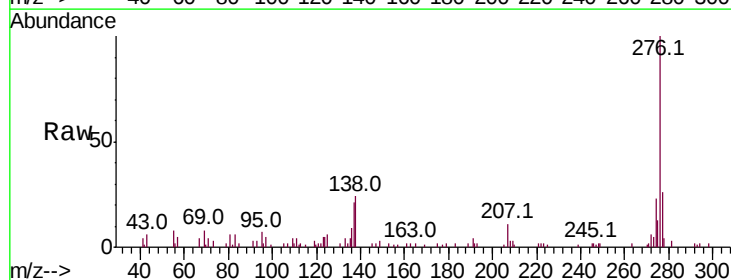
Tgt Ion:276 Resp: 49970

Ion Ratio Lower Upper

276 100

277 25.7 19.0 28.6

138 24.1 18.7 28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

