

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF013019\
 Data File : BF112329.D
 Acq On : 30 Jan 2019 18:43
 Operator : JU/SJ
 Sample : K1282-05 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Jan 30 23:44:36 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	138295	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	524410	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	231505	20.00	ng	-0.01
64) Phenanthrene-d10	11.36	188	399918	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	381881	20.00	ng	0.00
87) Perylene-d12	15.47	264	398004	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	412186	63.31	ng	-0.01
7) Phenol-d6	6.48	99	497175	54.95	ng	-0.01
23) Nitrobenzene-d5	7.40	82	300122	32.98	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	131904	48.95	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	524137	32.02	ng	-0.01
79) Terphenyl-d14	12.94	244	473078	23.33	ng	-0.01

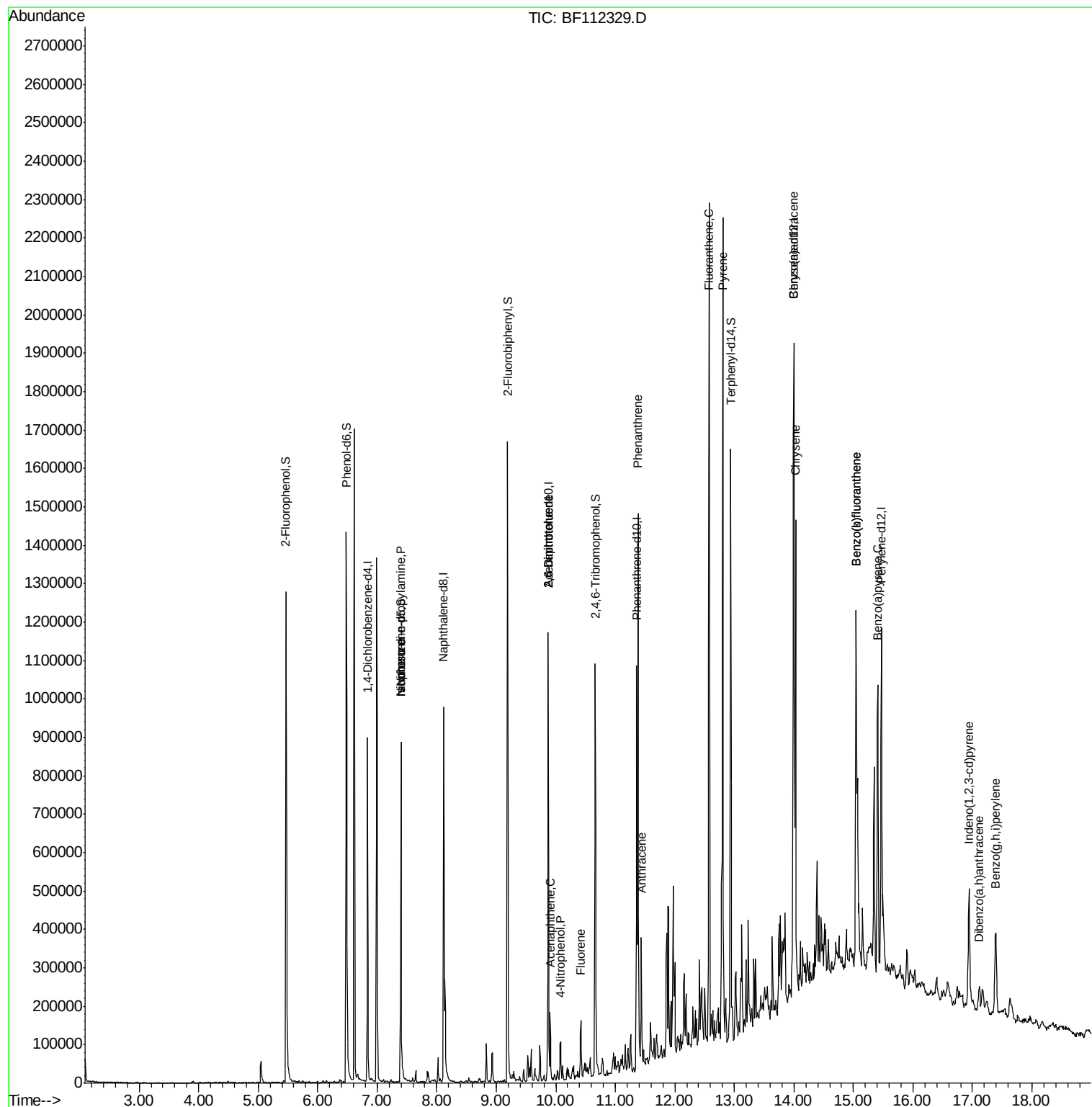
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	41713	6.686	ng	# 74
25) Isophorone	7.40	82	300117	21.020	ng	# 63
51) 2,6-Dinitrotoluene	9.87	165	31142	7.731	ng	# 34
52) Acenaphthene	9.90	154	32815	2.388	ng	98
56) 4-Nitrophenol	10.08	139	12544	5.437	ng	# 16
57) 2,4-Dinitrotoluene	9.87	165	31142	6.072	ng	# 32
58) Fluorene	10.42	166	40024	2.547	ng	97
71) Phenanthrene	11.39	178	585363	28.154	ng	97
72) Anthracene	11.43	178	127560	6.159	ng	97
75) Fluoranthene	12.57	202	857747	38.464	ng	99
78) Pyrene	12.80	202	841537	31.829	ng	98
81) Benzo(a)anthracene	13.99	228	490484	21.849	ng	99
83) Chrysene	14.03	228	425453	19.854	ng	97
86) Indeno(1,2,3-cd)pyrene	16.94	276	190815	11.238	ng	# 92
88) Benzo(b)fluoranthene	15.04	252	660580	27.753	ng	98
89) Benzo(k)fluoranthene	15.04	252	660580	28.974	ng	98
90) Benzo(a)pyrene	15.41	252	359945	16.806	ng	99
91) Dibenzo(a,h)anthracene	17.12	278	40885	2.369	ng	99
92) Benzo(g,h,i)perylene	17.39	276	173931	10.680	ng	99

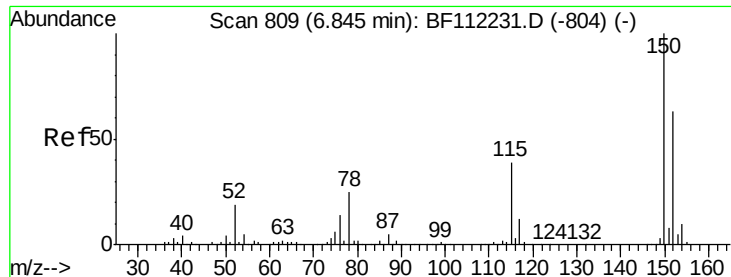
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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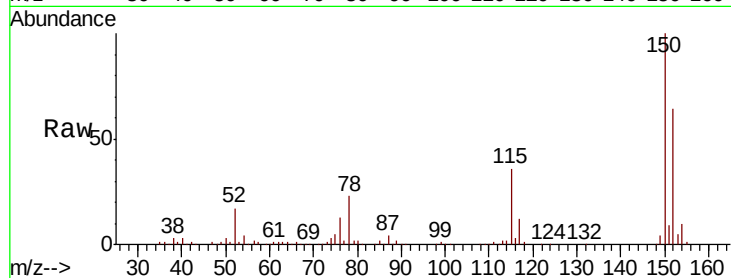


#1

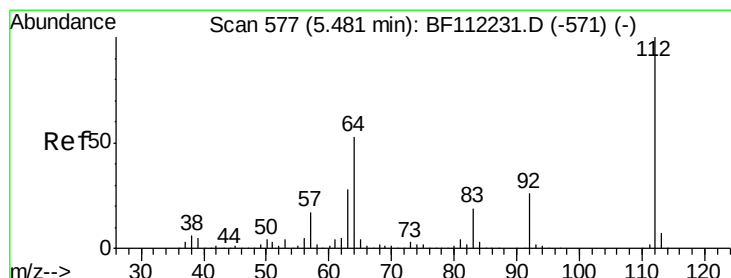
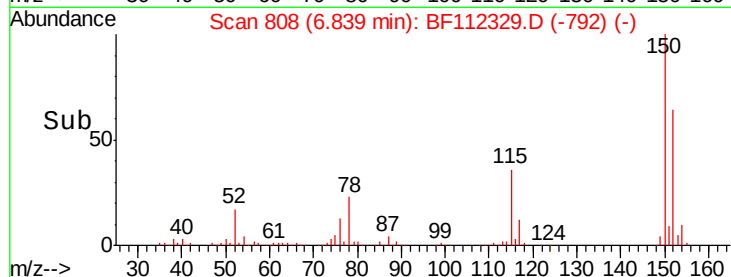
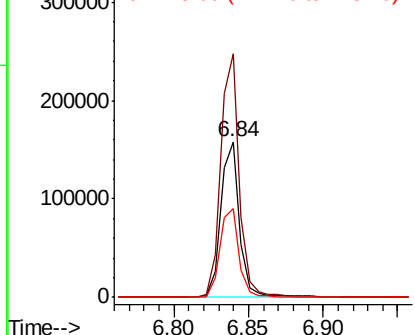
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion:152 Resp: 138295
Ion Ratio Lower Upper
152 100
150 156.3 127.4 191.0
115 56.6 45.5 68.3



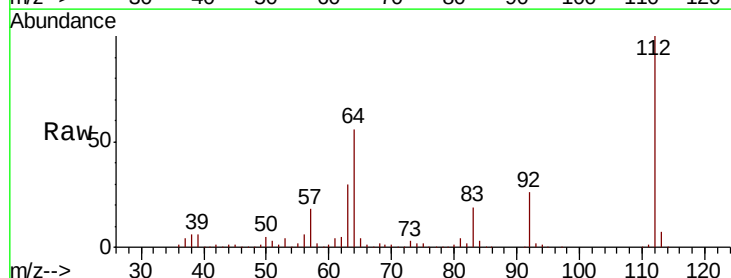
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



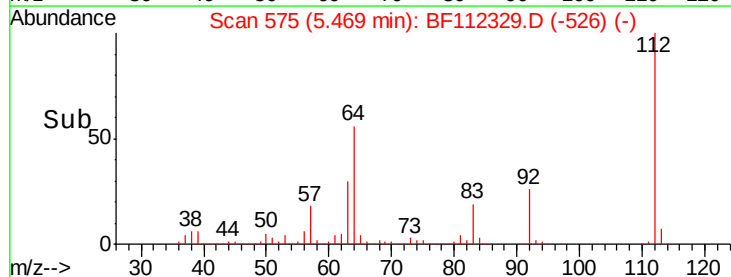
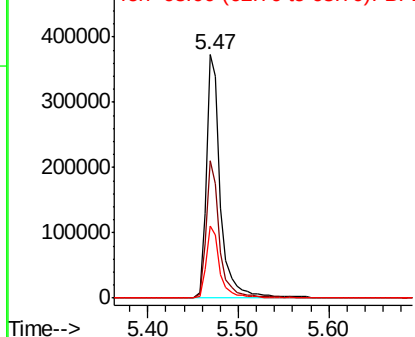
#5

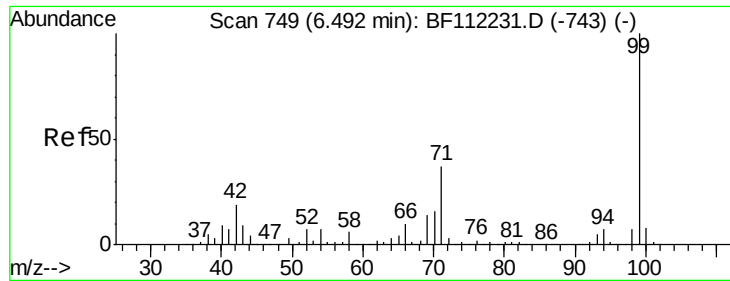
2-Fluorophenol
Concen: 63.307 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Tgt Ion:112 Resp: 412186
Ion Ratio Lower Upper
112 100
64 56.2 45.7 68.5
63 29.6 23.6 35.4



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: 54.954 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

Instrument :

BNA_F

ClientSampleId :

TP-2

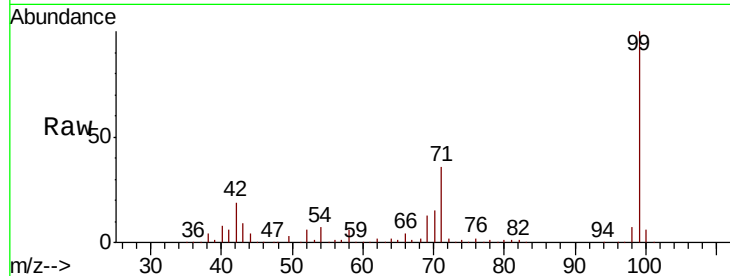
Tgt Ion: 99 Resp: 497175

Ion Ratio Lower Upper

99 100

42 18.7 15.1 22.7

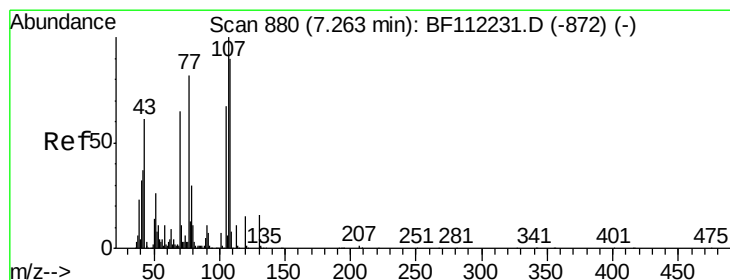
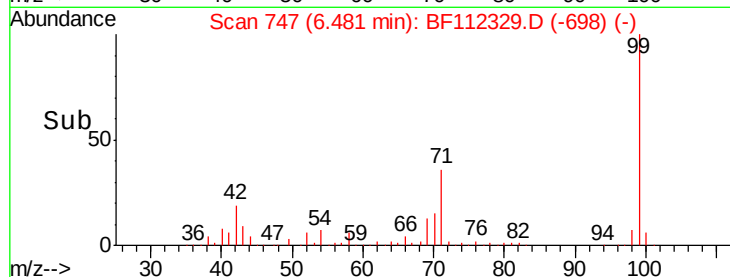
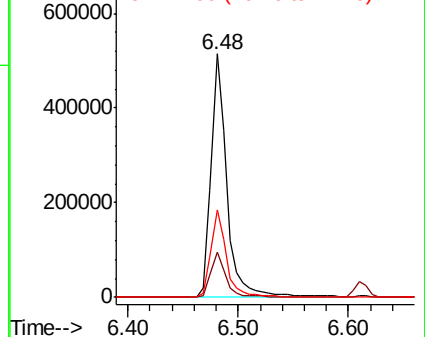
71 35.7 26.9 40.3



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: 6.686 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

Tgt Ion: 70 Resp: 41713

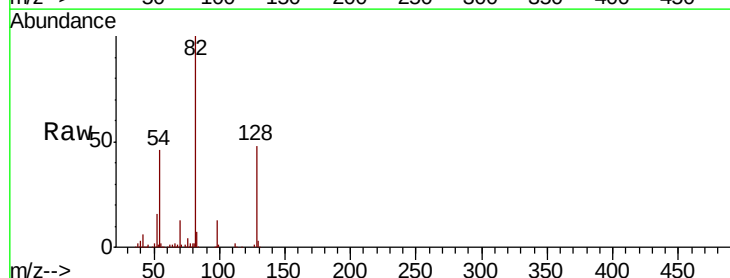
Ion Ratio Lower Upper

70 100

42 44.6 47.6 71.4#

101 0.0 7.9 11.9#

130 2.1 18.4 27.6#

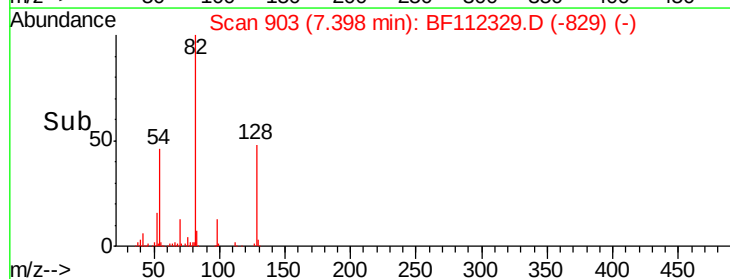
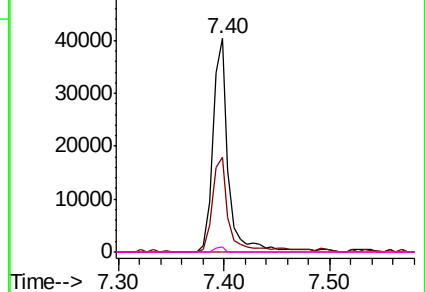


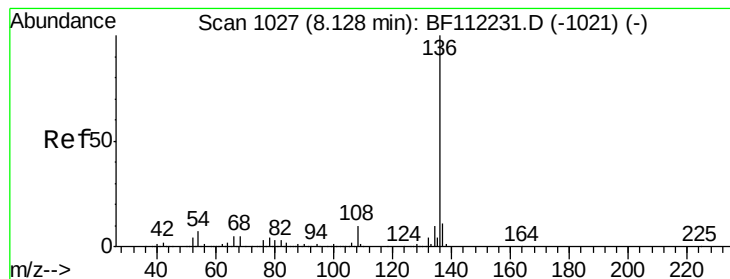
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

Instrument :

BNA_F

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Tgt Ion:136 Resp: 524410

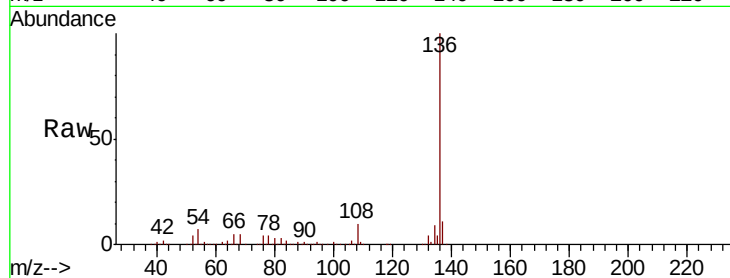
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 6.7 5.9 8.9

68 5.2 5.1 7.7

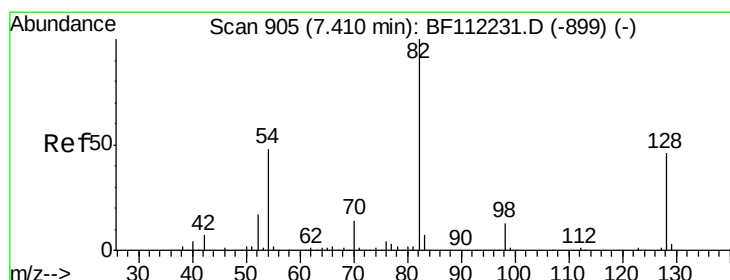
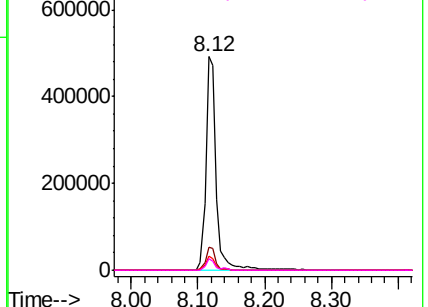
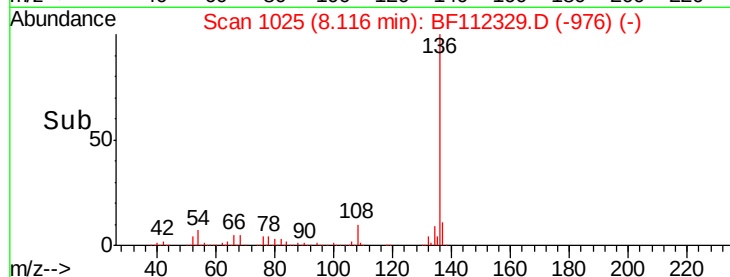


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 32.976 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

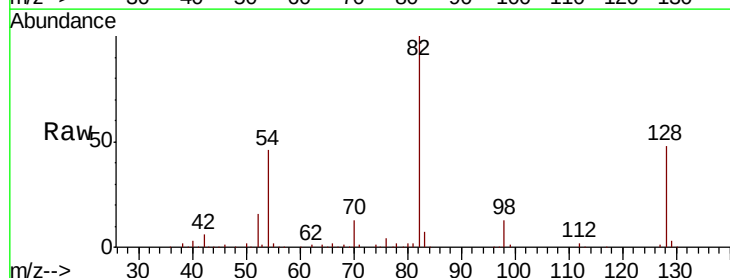
Tgt Ion: 82 Resp: 300122

Ion Ratio Lower Upper

82 100

128 48.1 37.8 56.8

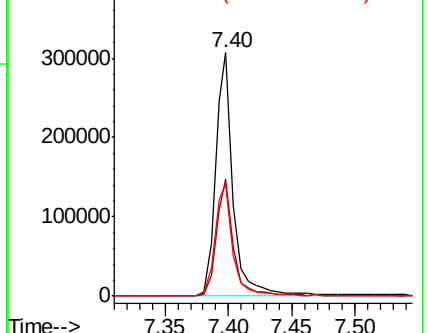
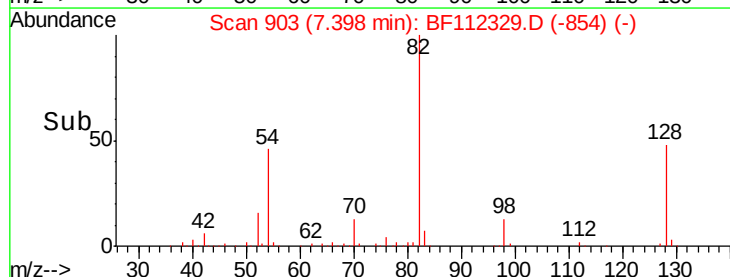
54 45.7 39.7 59.5

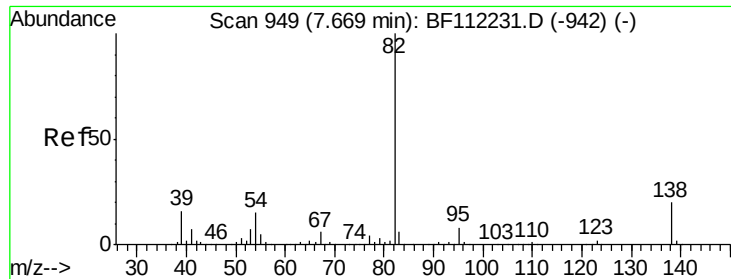


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 21.020 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

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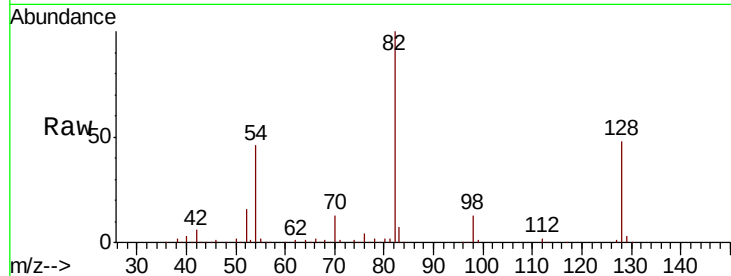
Tgt Ion: 82 Resp: 300117

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

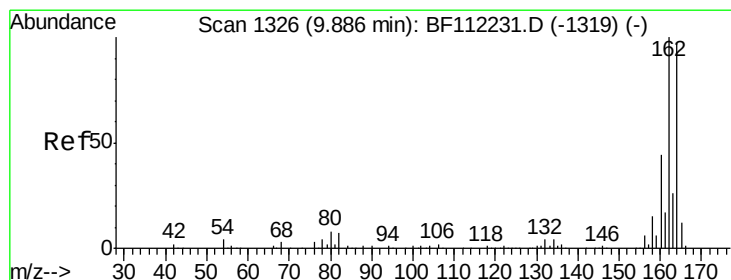
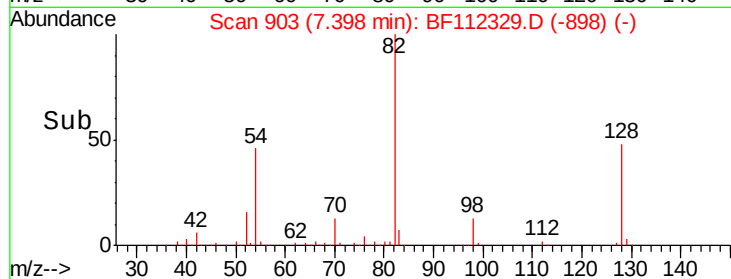
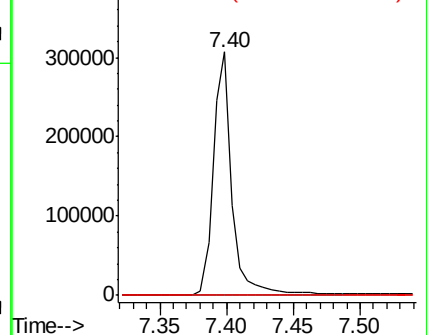
138 0.0 15.4 23.0#



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: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

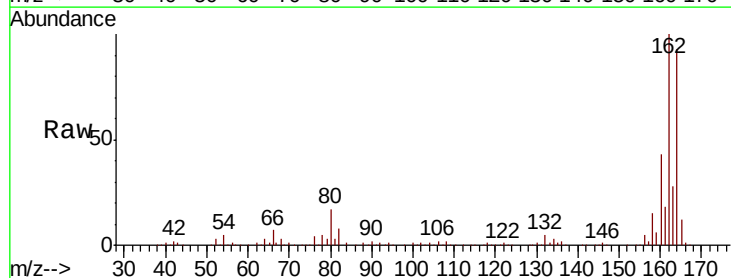
Tgt Ion: 164 Resp: 231505

Ion Ratio Lower Upper

164 100

162 107.0 82.2 123.4

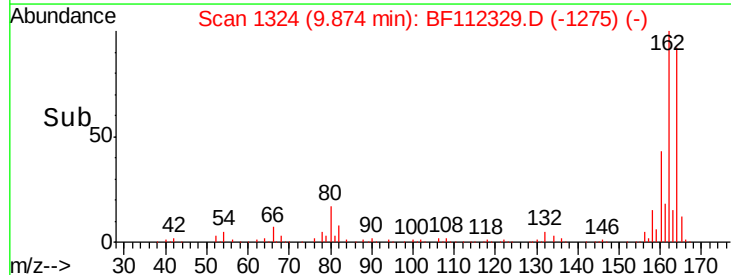
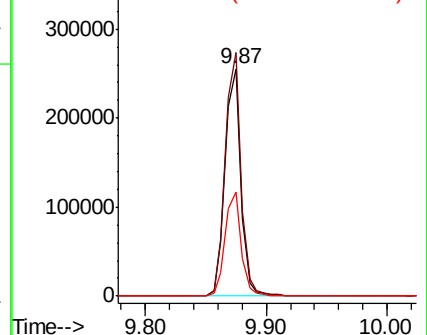
160 45.5 36.2 54.4

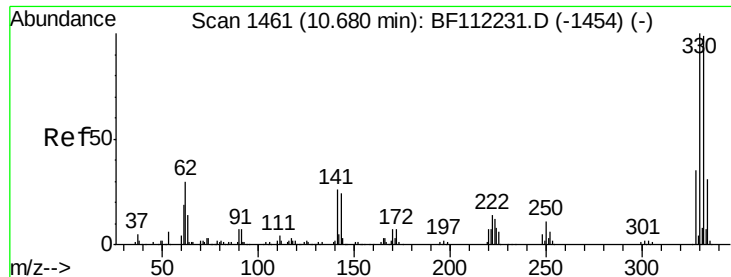


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 48.950 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BF112329.D

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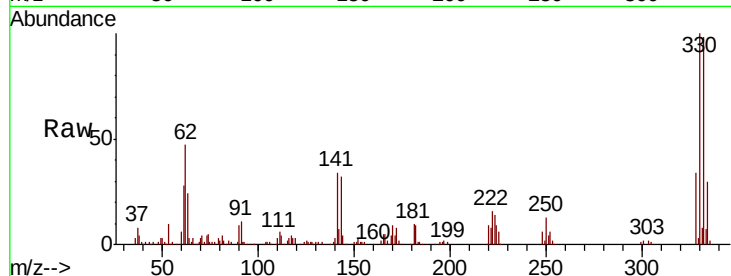
Tgt Ion:330 Resp: 131904

Ion Ratio Lower Upper

330 100

332 95.8 76.6 114.8

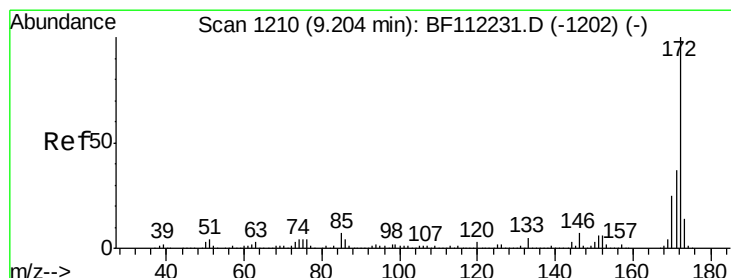
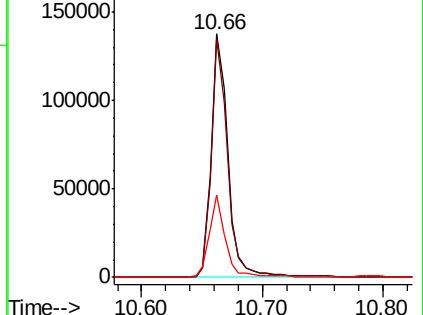
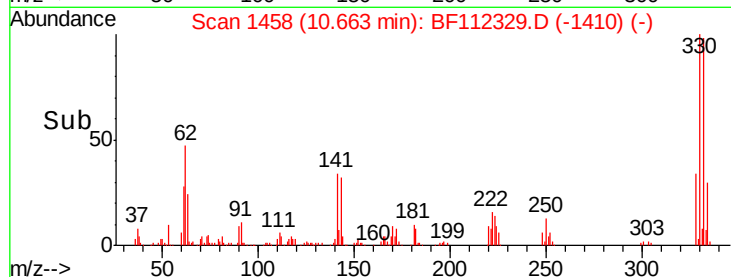
141 33.4 24.3 36.5



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: 32.021 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

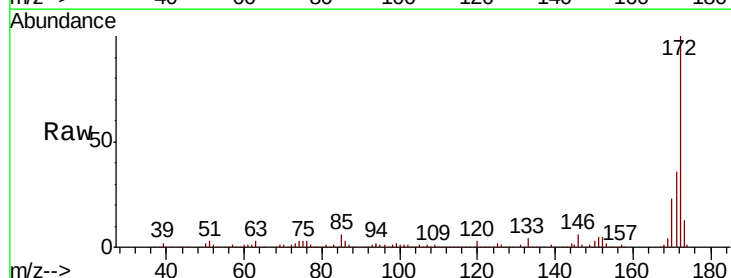
Tgt Ion:172 Resp: 524137

Ion Ratio Lower Upper

172 100

171 35.7 30.5 45.7

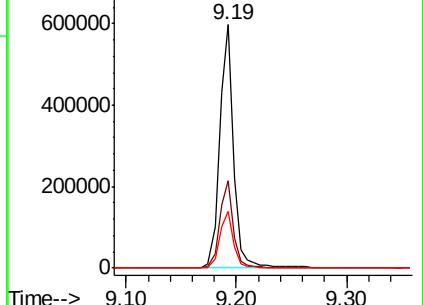
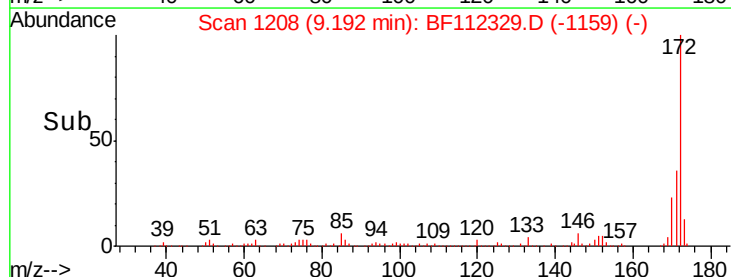
170 23.5 20.2 30.4

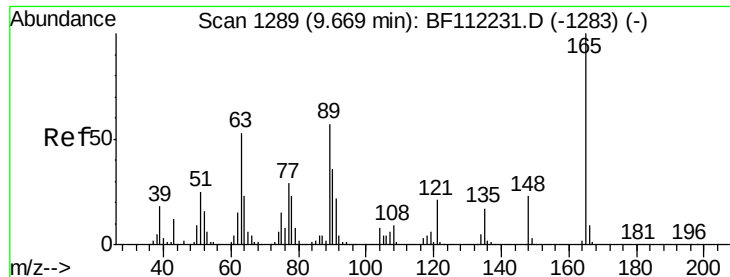


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.731 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.21 min

Lab File: BF112329.D

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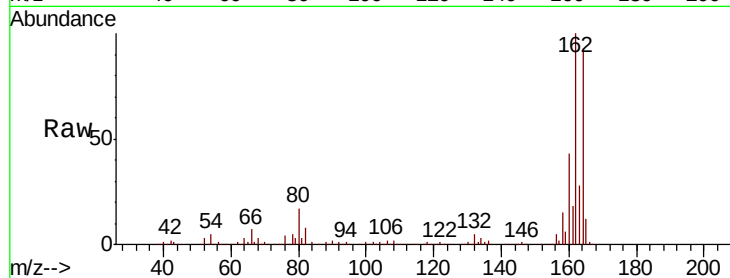
Tgt Ion:165 Resp: 31142

Ion Ratio Lower Upper

165 100

63 1.5 33.8 50.8#

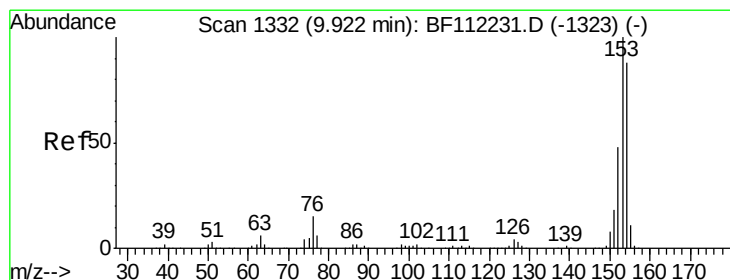
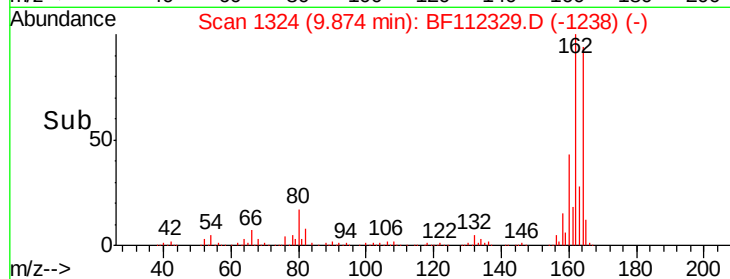
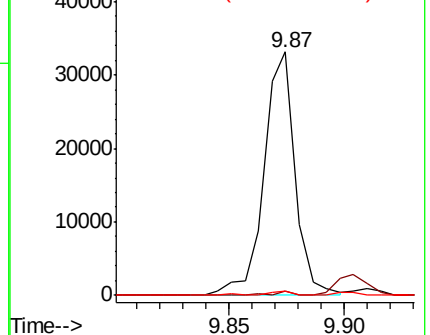
89 1.6 36.9 55.3#



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



#52

Acenaphthene

Concen: 2.388 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

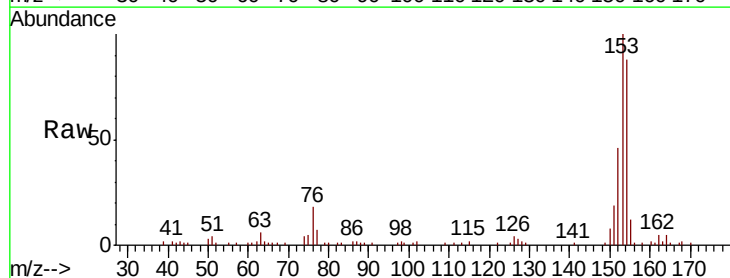
Tgt Ion:154 Resp: 32815

Ion Ratio Lower Upper

154 100

153 113.2 89.8 134.6

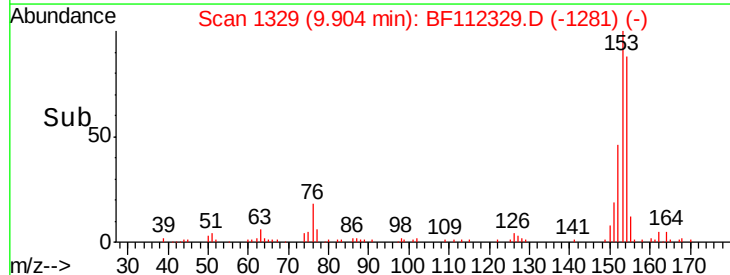
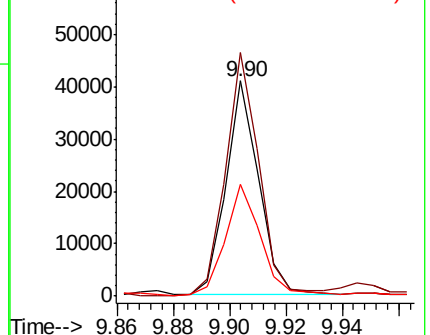
152 51.9 43.5 65.3

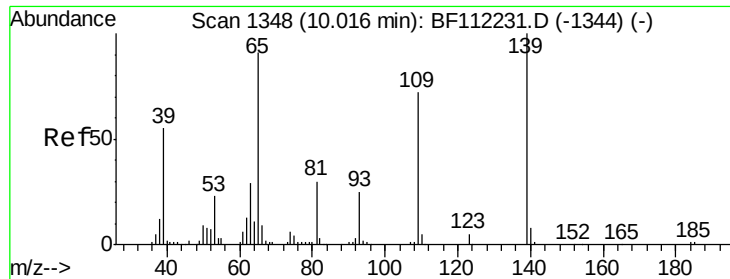


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

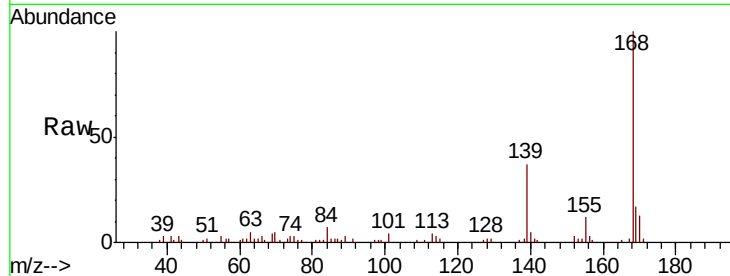




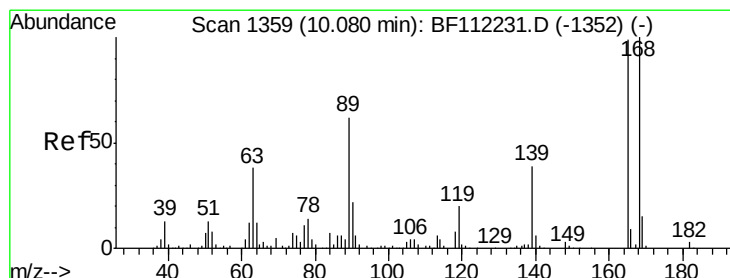
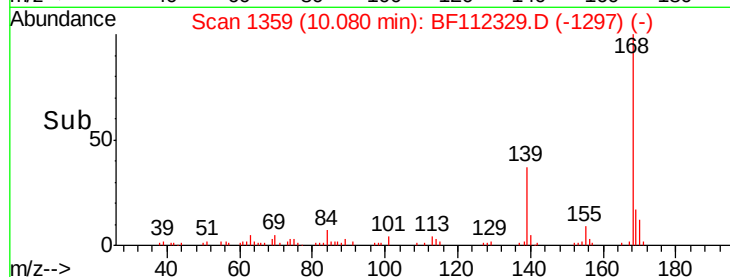
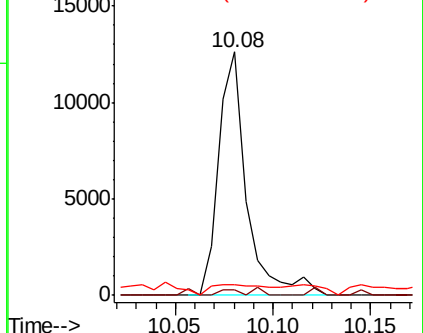
#56
4-Nitrophenol
Concen: 5.437 ng
RT: 10.08 min Scan# 1359
Delta R.T. 0.06 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion:139 Resp: 12544
Ion Ratio Lower Upper
139 100
109 2.4 42.8 82.8#
65 4.6 66.1 106.1#

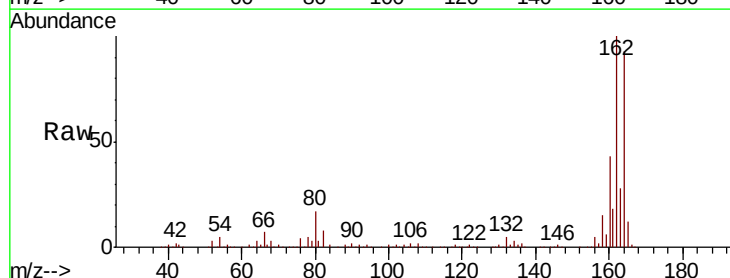


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

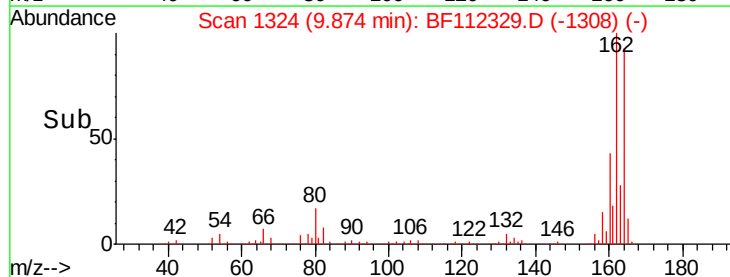
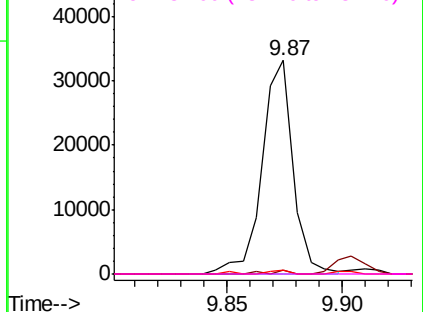


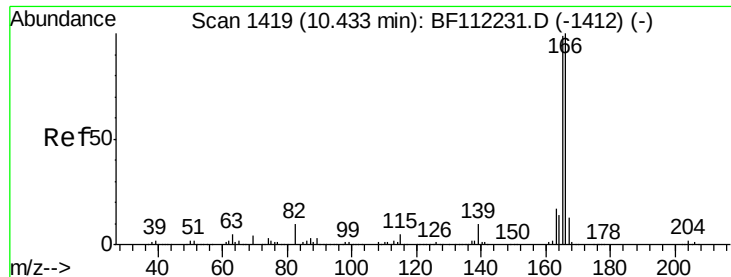
#57
2,4-Dinitrotoluene
Concen: 6.072 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.21 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Tgt Ion:165 Resp: 31142
Ion Ratio Lower Upper
165 100
63 1.5 27.9 41.9#
89 1.6 47.9 71.9#
182 0.0 2.2 3.4#



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

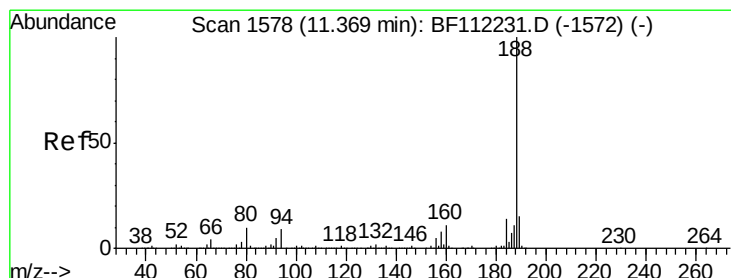
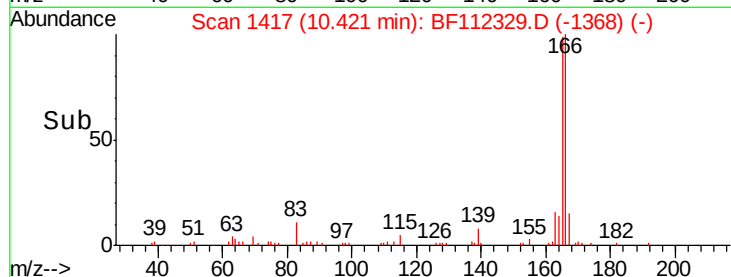
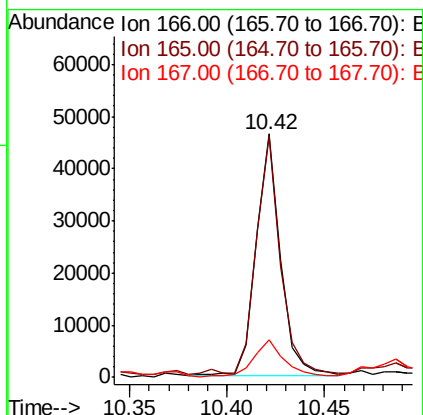
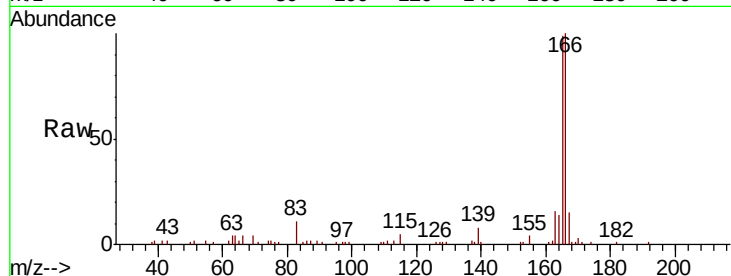




#58
 Fluorene
 Concen: 2.547 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

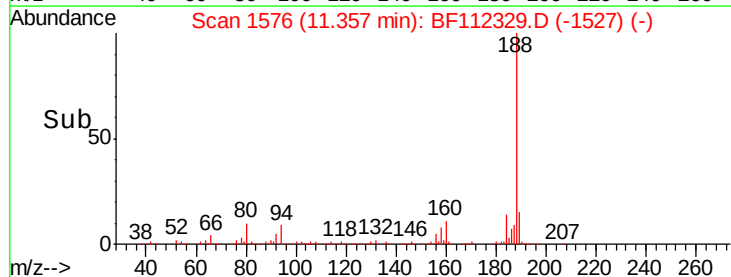
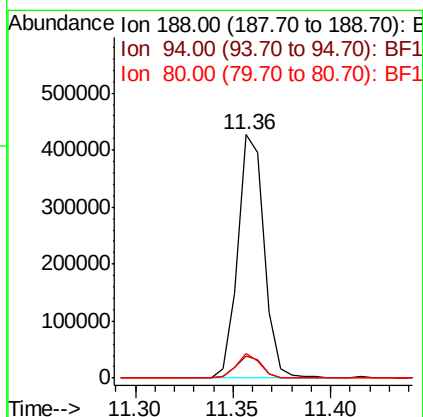
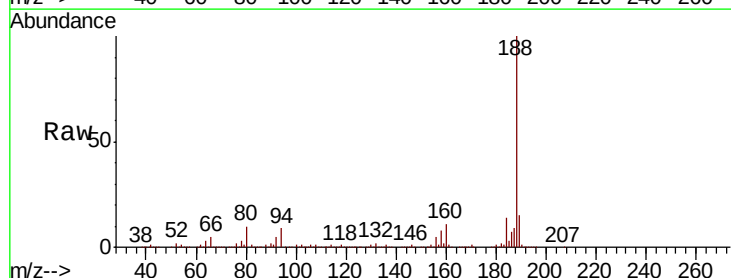
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

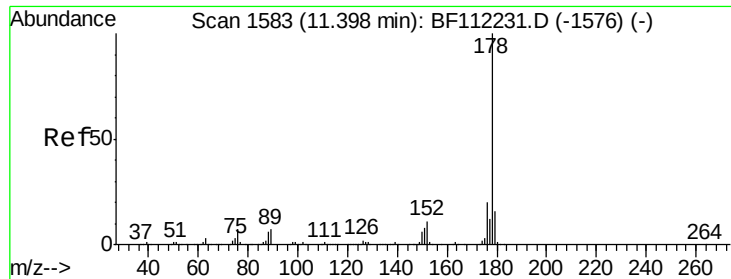
Tgt Ion:166 Resp: 40024
 Ion Ratio Lower Upper
 166 100
 165 99.2 77.1 115.7
 167 15.2 11.3 16.9



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

Tgt Ion:188 Resp: 399918
 Ion Ratio Lower Upper
 188 100
 94 9.4 8.2 12.2
 80 10.2 8.9 13.3

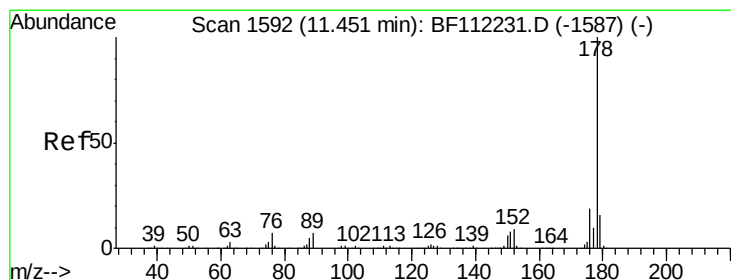
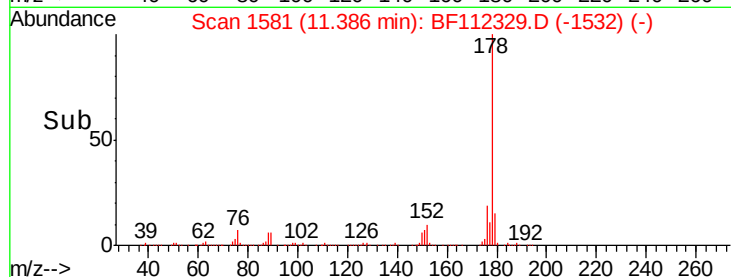
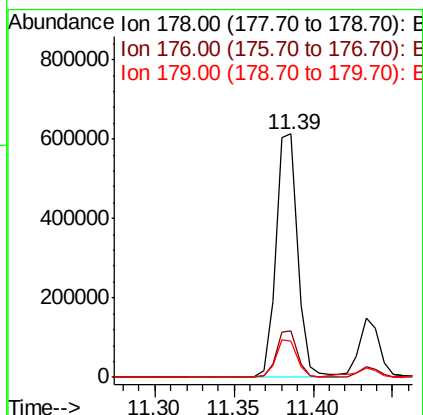
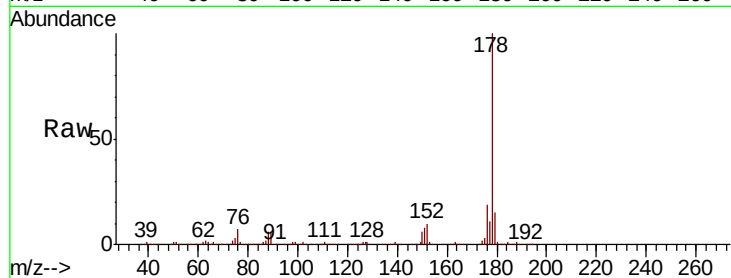




#71
Phenanthrene
Concen: 28.154 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

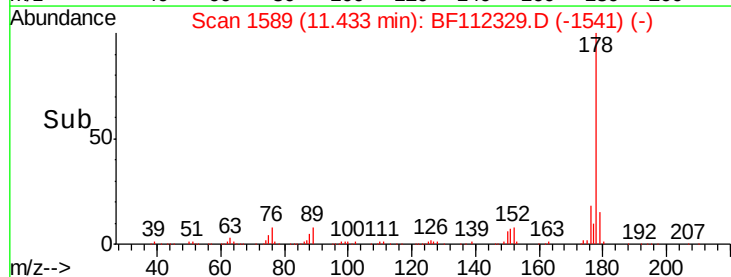
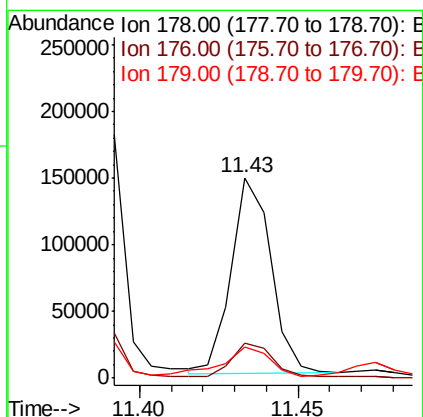
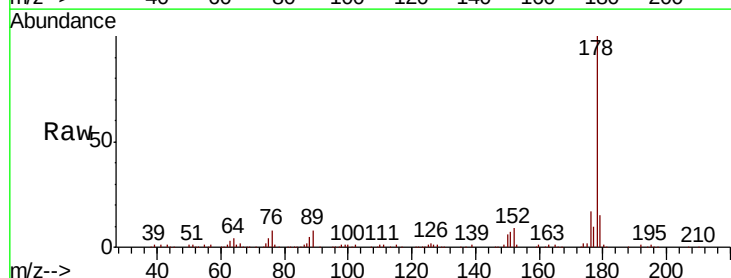
Instrument :
BNA_F
ClientSampleId :
TP-2

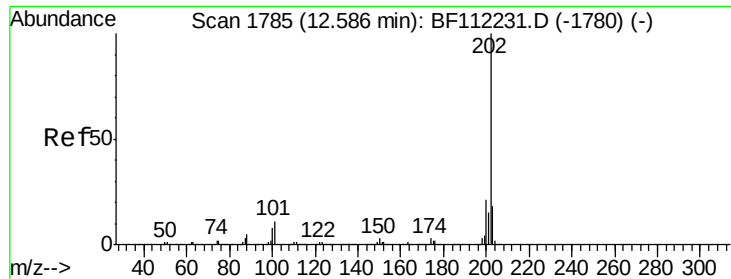
Tgt Ion:178 Resp: 585363
Ion Ratio Lower Upper
178 100
176 19.3 16.3 24.5
179 15.0 13.0 19.4



#72
Anthracene
Concen: 6.159 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Tgt Ion:178 Resp: 127560
Ion Ratio Lower Upper
178 100
176 17.5 15.5 23.3
179 15.3 12.8 19.2





#75

Fluoranthene

Concen: 38.464 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

Instrument :

BNA_F

ClientSampleId :

TP-2

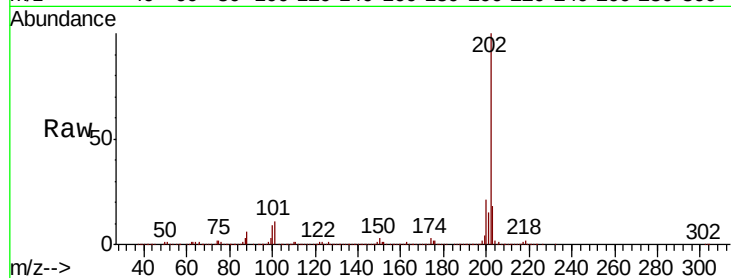
Tgt Ion:202 Resp: 857747

Ion Ratio Lower Upper

202 100

101 11.2 0.0 31.8

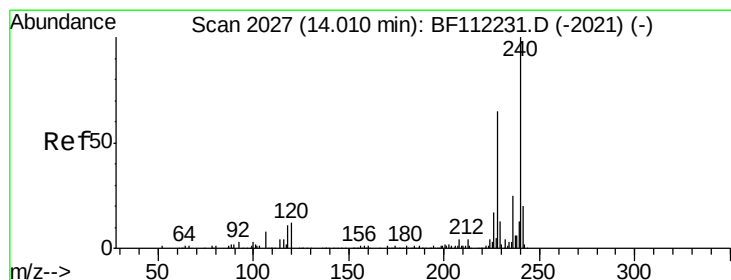
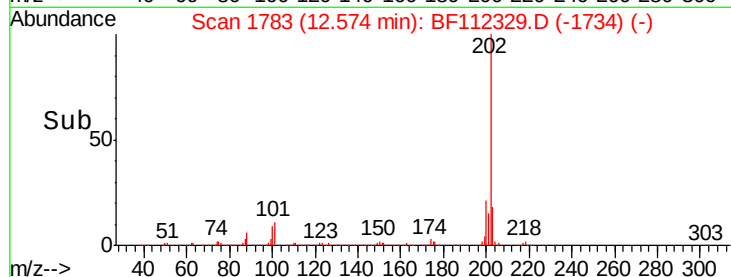
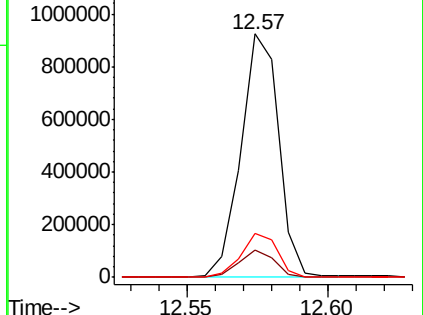
203 17.9 0.0 38.4



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: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

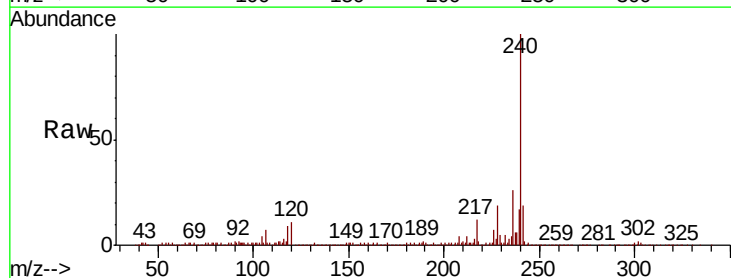
Tgt Ion:240 Resp: 381881

Ion Ratio Lower Upper

240 100

120 10.5 9.0 13.6

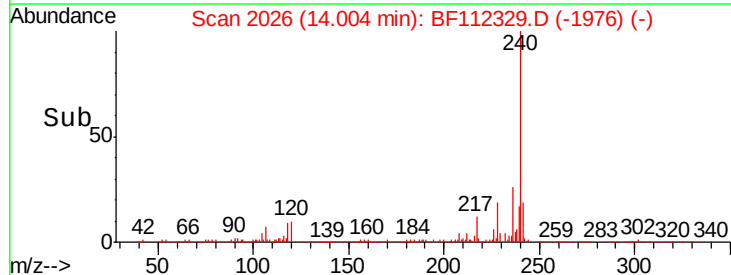
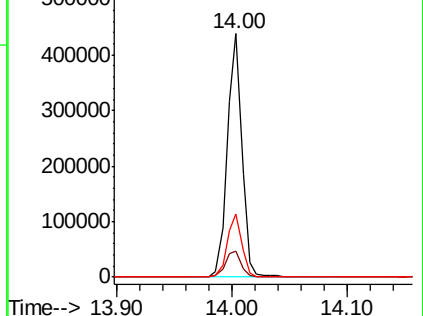
236 25.8 20.7 31.1

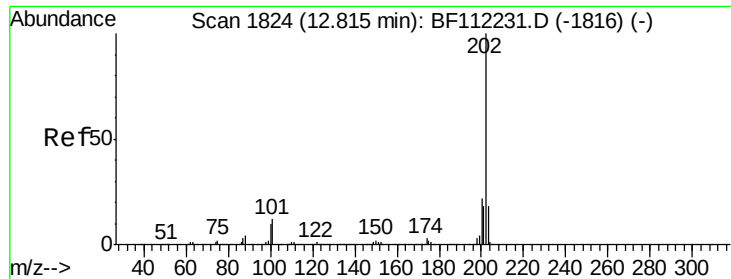


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

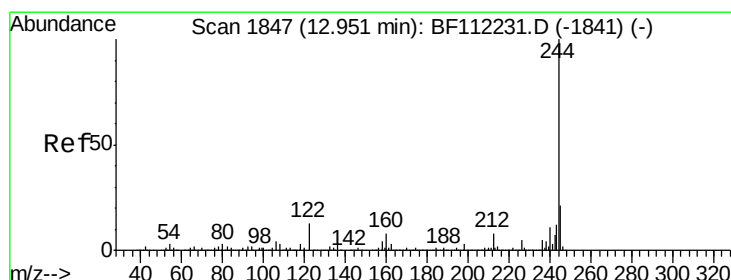
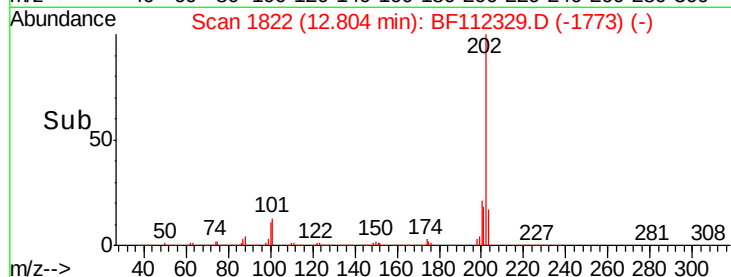
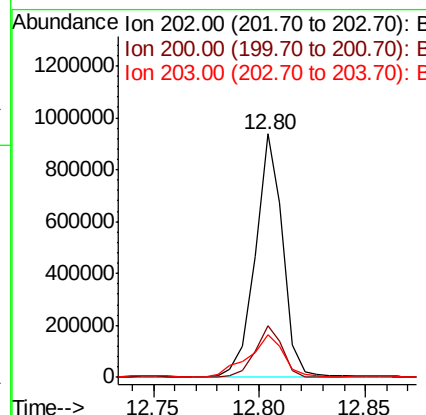
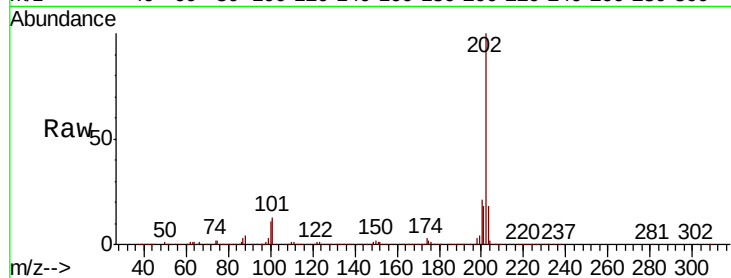




#78
 Pyrene
 Concen: 31.829 ng
 RT: 12.80 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

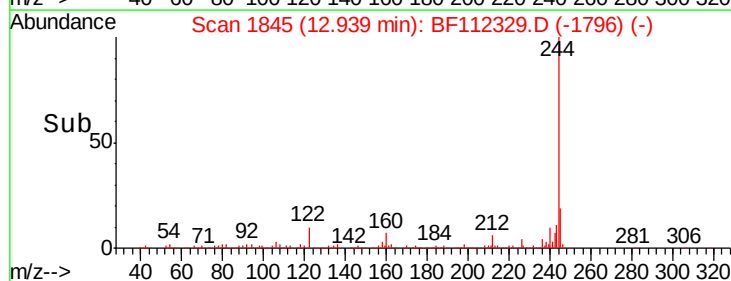
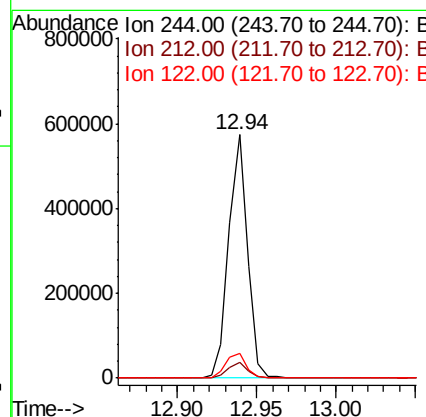
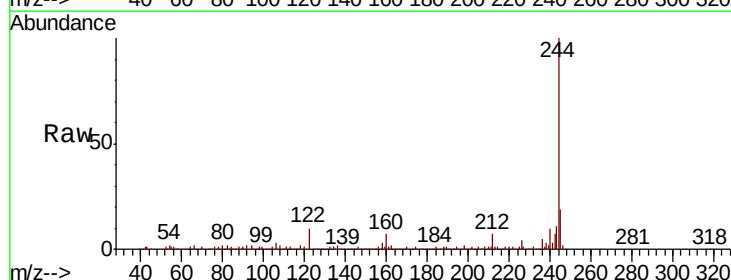
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

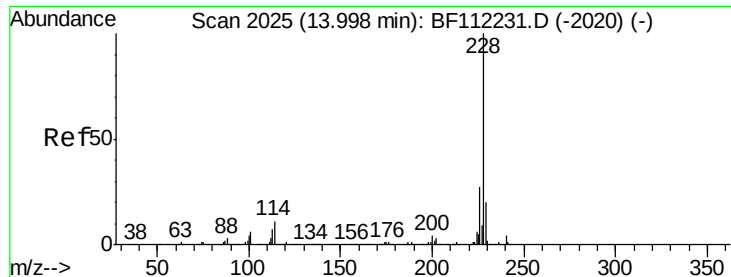
Tgt Ion:	202	Resp:	841537
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5
203	17.6	14.6	22.0



#79
 Terphenyl-d14
 Concen: 23.332 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

Tgt Ion:	244	Resp:	473078
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.9	8.9
122	10.3	9.8	14.6

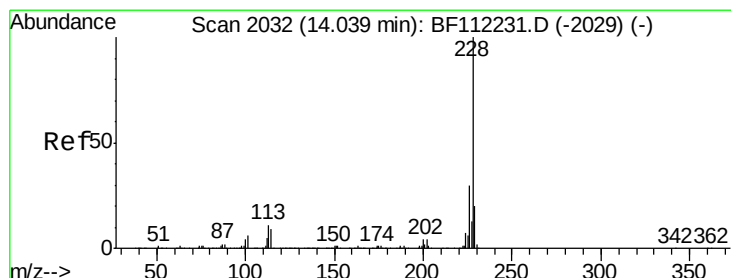
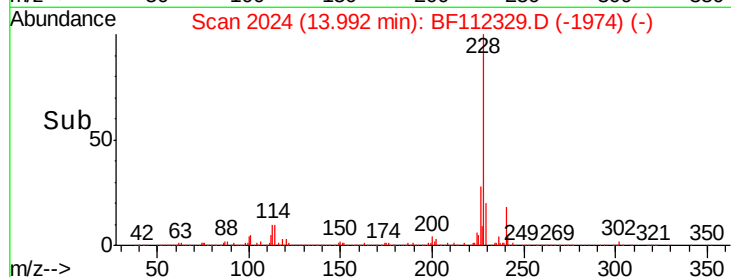
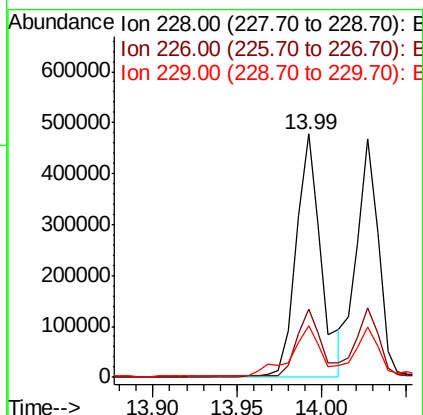
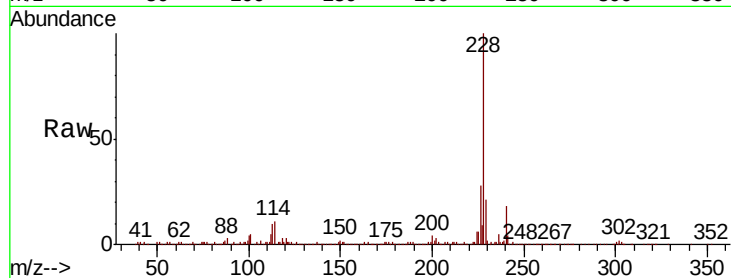




#81
Benzo(a)anthracene
Concen: 21.849 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

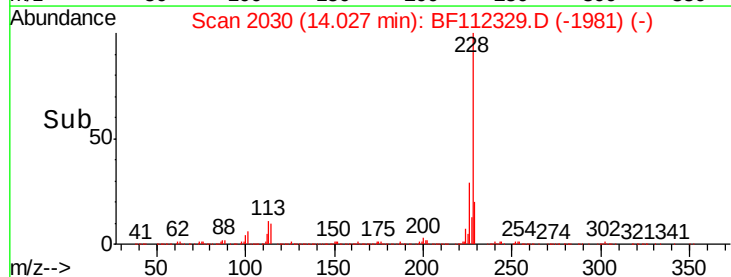
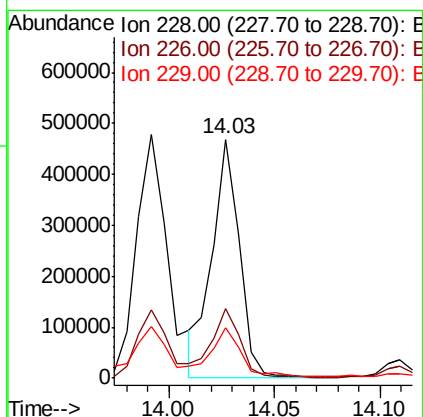
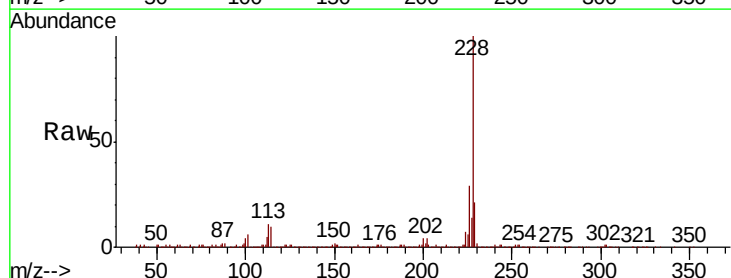
Instrument :
BNA_F
ClientSampleId :
TP-2

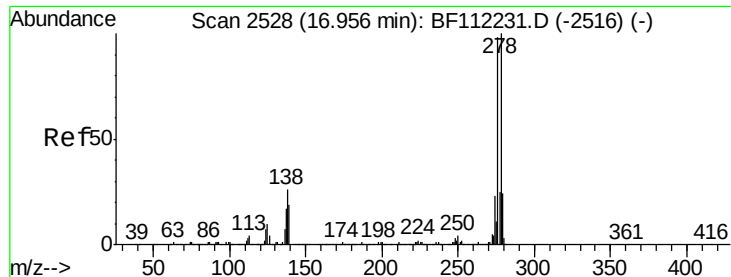
Tgt Ion:228 Resp: 490484
Ion Ratio Lower Upper
228 100
226 28.0 22.6 34.0
229 21.2 16.5 24.7



#83
Chrysene
Concen: 19.854 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Tgt Ion:228 Resp: 425453
Ion Ratio Lower Upper
228 100
226 29.3 25.0 37.6
229 21.3 16.6 24.8

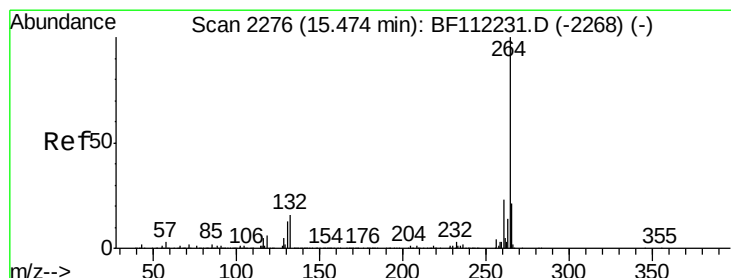
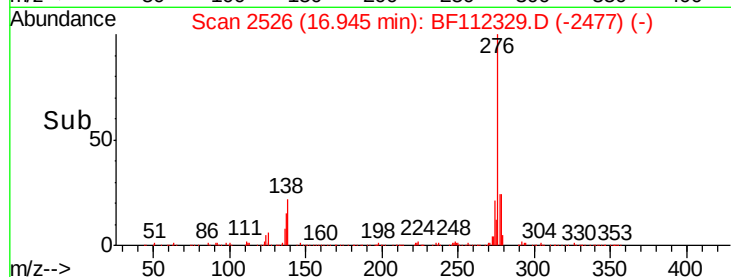
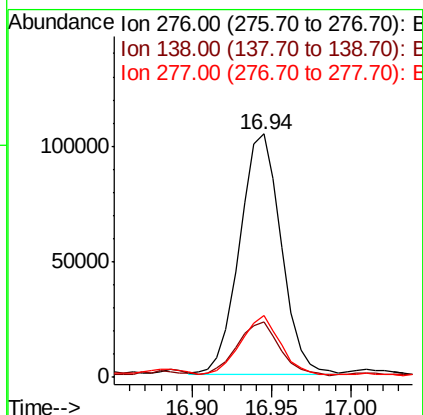
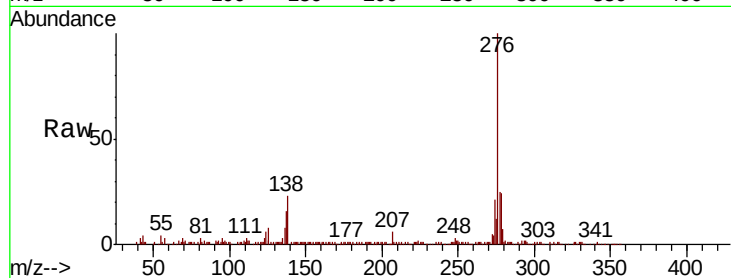




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.238 ng
 RT: 16.94 min Scan# 2526
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

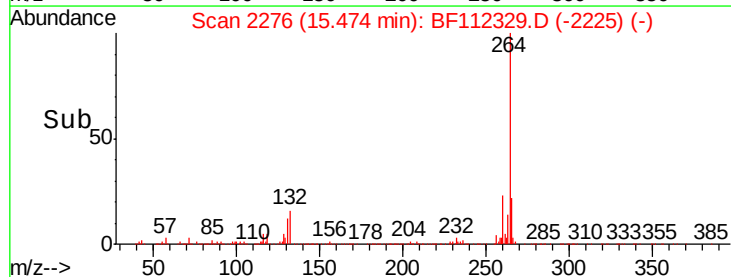
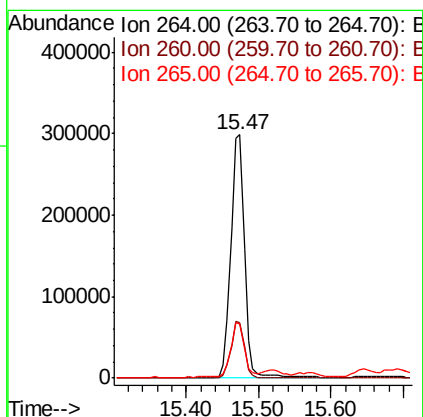
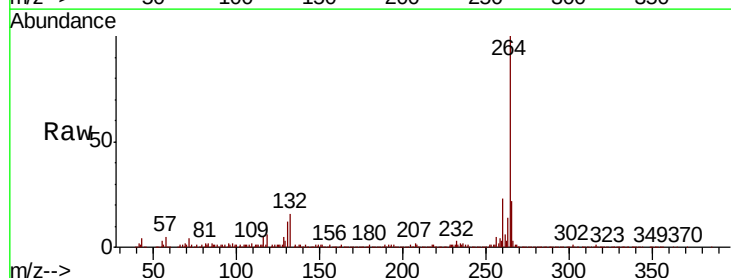
Instrument :
 BNA_F
 ClientSampled :
 TP-2

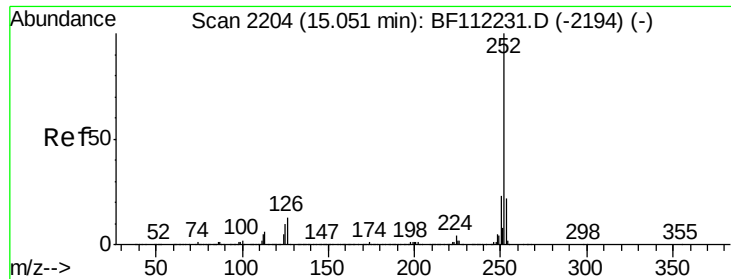
Tgt Ion: 276 Resp: 190815
 Ion Ratio Lower Upper
 276 100
 138 22.5 22.6 34.0#
 277 23.3 20.3 30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. -0.00 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

Tgt Ion: 264 Resp: 398004
 Ion Ratio Lower Upper
 264 100
 260 22.8 18.2 27.2
 265 22.4 17.0 25.4

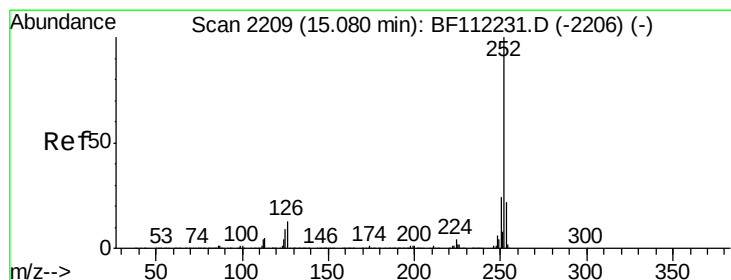
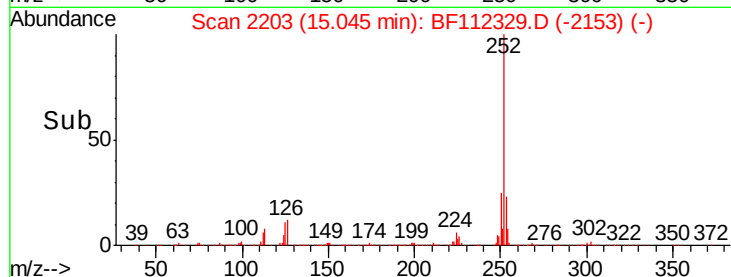
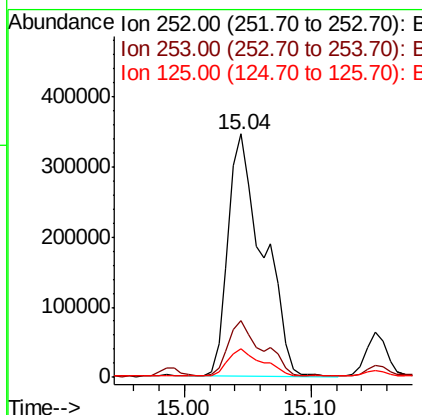
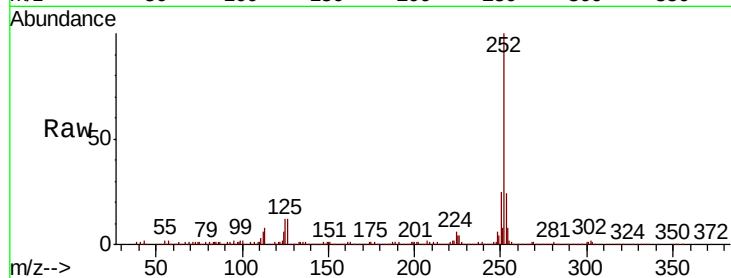




#88
Benzo(b)fluoranthene
Concen: 27.753 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

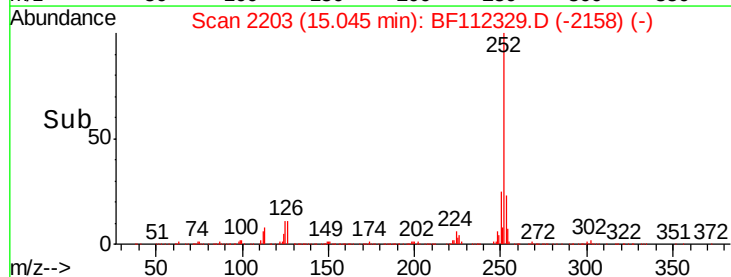
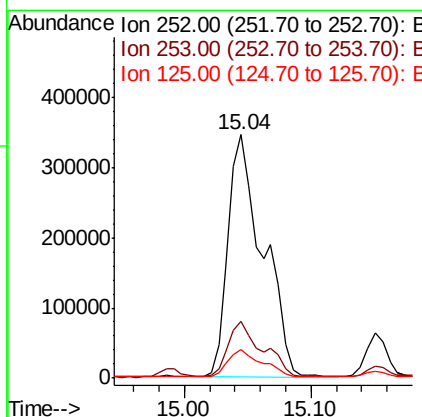
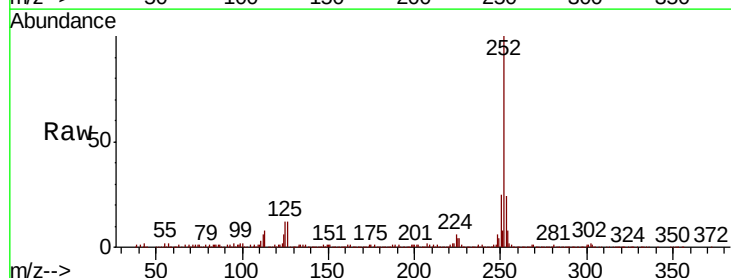
Instrument :
BNA_F
ClientSampleId :
TP-2

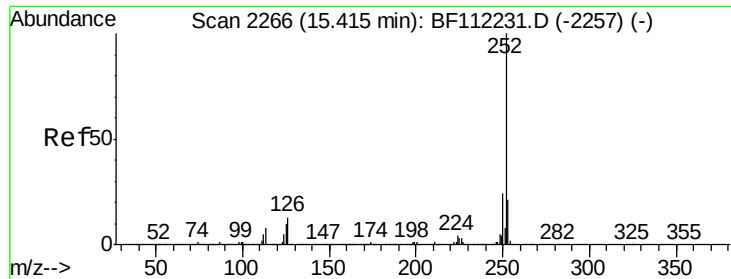
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	11.9	8.7	13.1



#89
Benzo(k)fluoranthene
Concen: 28.974 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF112329.D
Acq: 30 Jan 2019 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	11.9	9.1	13.7





#90

Benzo(a)pyrene

Concen: 16.806 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.01 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

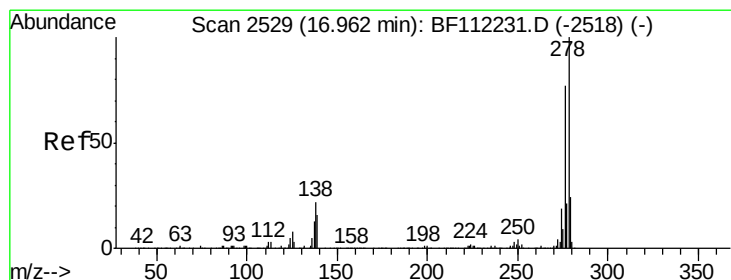
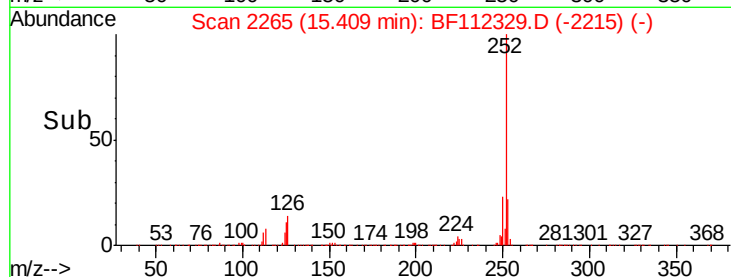
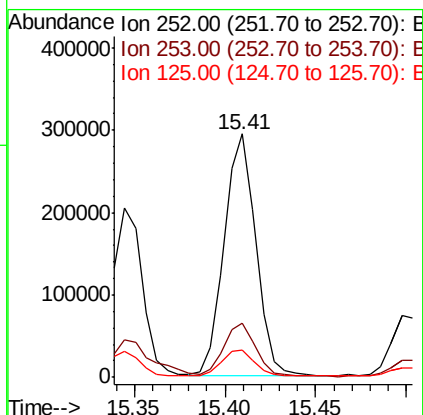
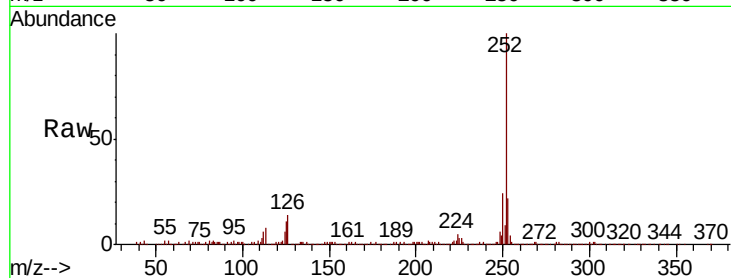
Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:	252	Resp:	359945
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	11.3	9.0	13.4



#91

Dibenzo(a,h)anthracene

Concen: 2.369 ng

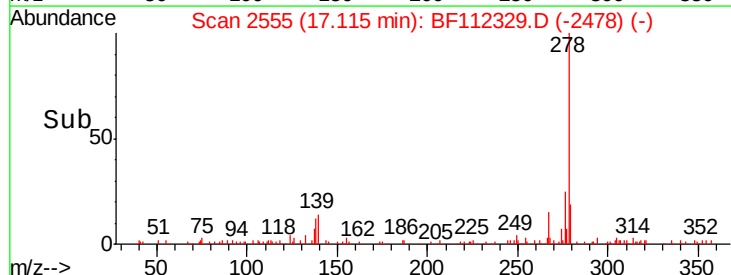
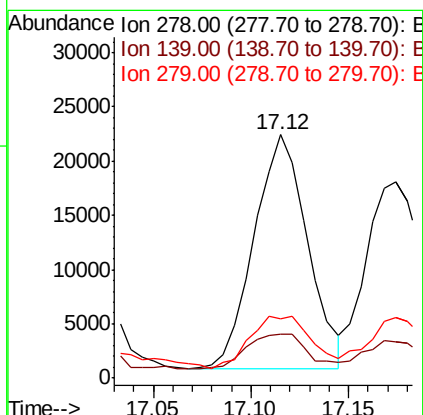
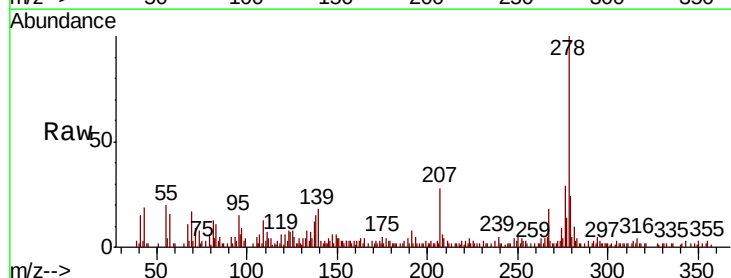
RT: 17.12 min Scan# 2555

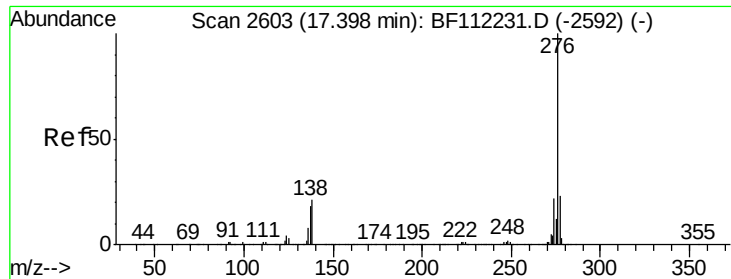
Delta R.T. 0.15 min

Lab File: BF112329.D

Acq: 30 Jan 2019 18:43

Tgt Ion:	278	Resp:	40885
Ion	Ratio	Lower	Upper
278	100		
139	17.9	13.7	20.5
279	24.3	19.0	28.6





#92
 Benzo(g,h,i)perylene
 Concen: 10.680 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.01 min
 Lab File: BF112329.D
 Acq: 30 Jan 2019 18:43

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.4	29.0
138	23.4	19.1	28.7

