

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF090919\
 Data File : BF116904.D
 Acq On : 9 Sep 2019 18:45
 Operator : HP/JU
 Sample : K4755-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-1-3

Quant Time: Sep 10 03:01:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	67712	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	274561	20.00	ng	-0.02
39) Acenaphthene-d10	9.87	164	142302	20.00	ng	-0.02
64) Phenanthrene-d10	11.35	188	241982	20.00	ng	-0.02
76) Chrysene-d12	13.99	240	194521	20.00	ng	-0.01
87) Perylene-d12	15.44	264	194431	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	434291	103.91	ng	-0.01
7) Phenol-d6	6.47	99	617656	112.54	ng	-0.01
23) Nitrobenzene-d5	7.39	82	373703	77.70	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	141253	148.48	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	651029	77.18	ng	-0.02
79) Terphenyl-d14	12.93	244	691295	65.74	ng	-0.02

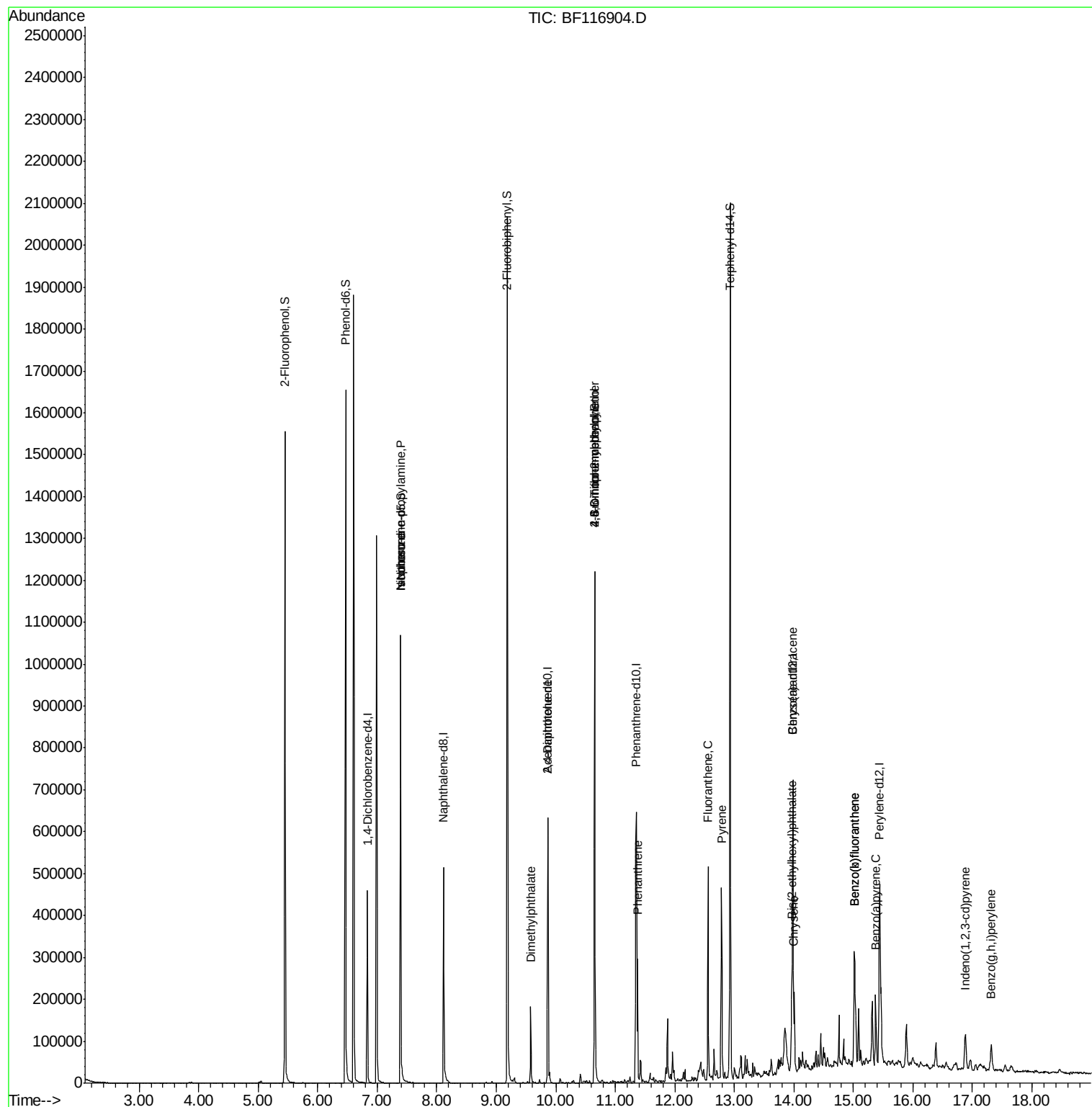
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.39	70	49598	13.725	ng	# 71
25) Isophorone	7.39	82	373701	38.345	ng	# 66
50) Dimethylphthalate	9.58	163	83286	8.477	ng	98
57) 2,4-Dinitrotoluene	9.87	165	18465	8.056	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.66	198	120	7.565	ng	# 1
67) 4-Bromophenyl-phenylether	10.65	248	8805	3.582	ng	# 1
71) Phenanthrene	11.37	178	114166	8.475	ng	97
75) Fluoranthene	12.56	202	204898	15.478	ng	98
78) Pyrene	12.79	202	180832	10.458	ng	99
81) Benzo(a)anthracene	13.97	228	78675	6.391	ng	99
83) Chrysene	14.01	228	80074	6.313	ng	96
84) Bis(2-ethylhexyl)phthalate	13.96	149	27734	2.672	ng	94
86) Indeno(1,2,3-cd)pyrene	16.88	276	54411	5.341	ng	99
88) Benzo(b)fluoranthene	15.02	252	176454	15.011	ng	97
89) Benzo(k)fluoranthene	15.02	252	176454	16.463	ng	98
90) Benzo(a)pyrene	15.37	252	80131	7.835	ng	99
92) Benzo(g,h,i)perylene	17.32	276	51671	5.660	ng	# 95

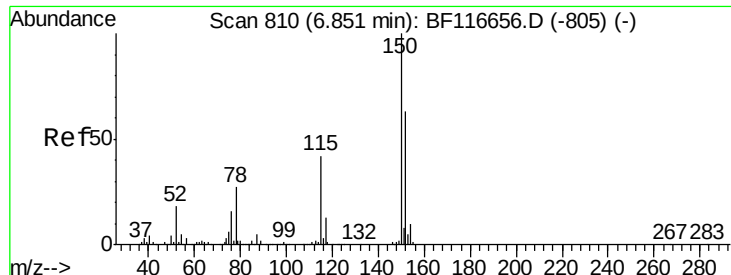
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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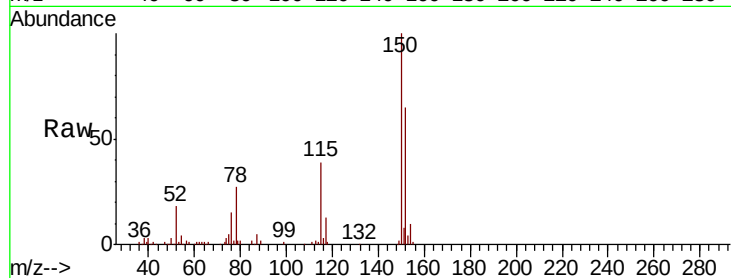


#1

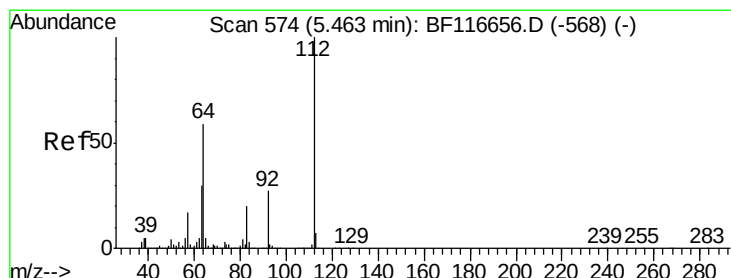
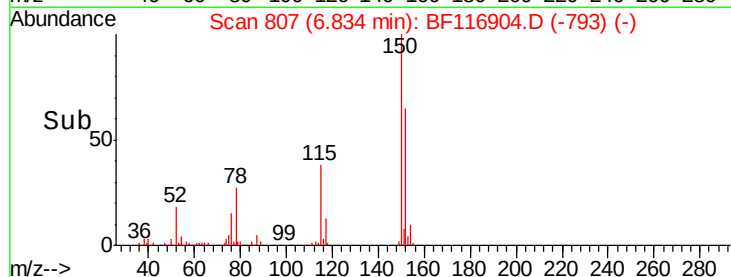
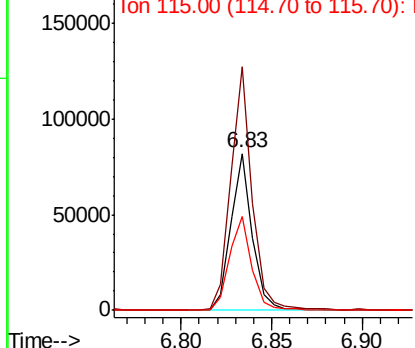
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.02 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

Instrument :
BNA_F
ClientSampleId :
RO-1-3

Tgt Ion:152 Resp: 67712
Ion Ratio Lower Upper
152 100
150 154.9 124.4 186.6
115 59.8 49.9 74.9



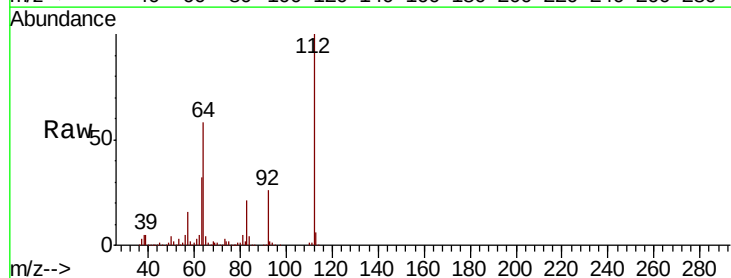
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



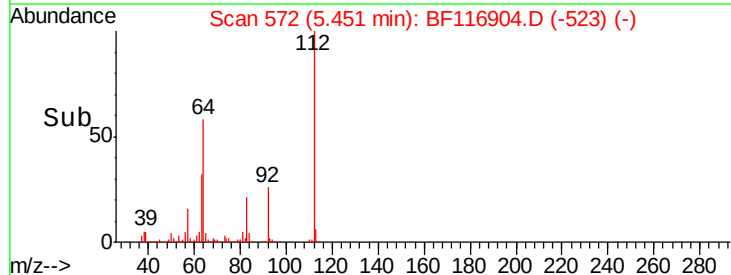
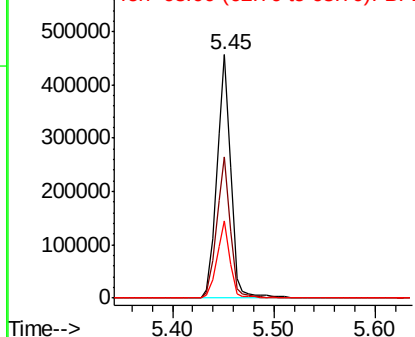
#5

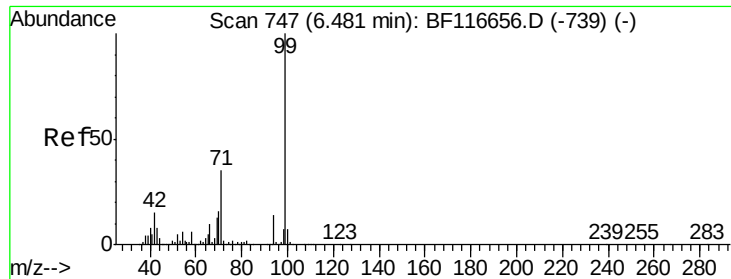
2-Fluorophenol
Concen: 103.907 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.01 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

Tgt Ion:112 Resp: 434291
Ion Ratio Lower Upper
112 100
64 57.8 47.1 70.7
63 31.6 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 112.541 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

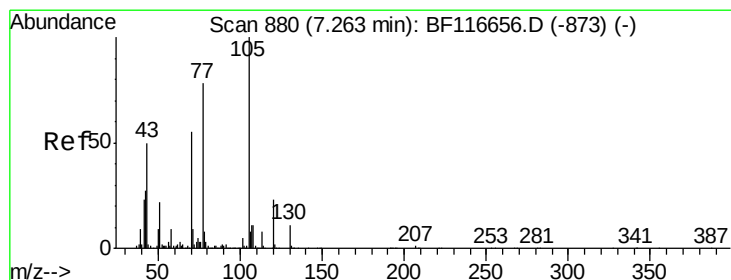
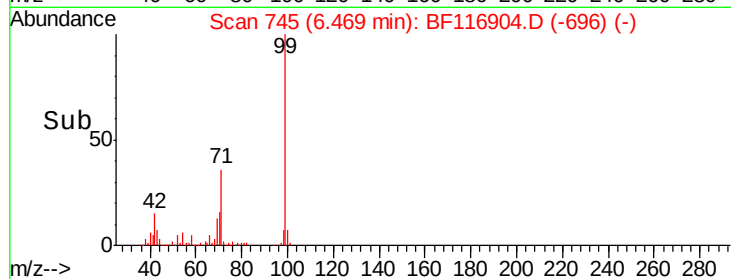
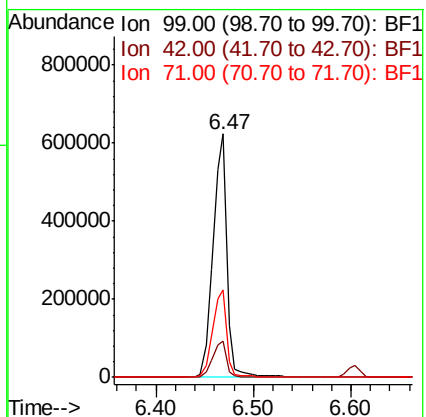
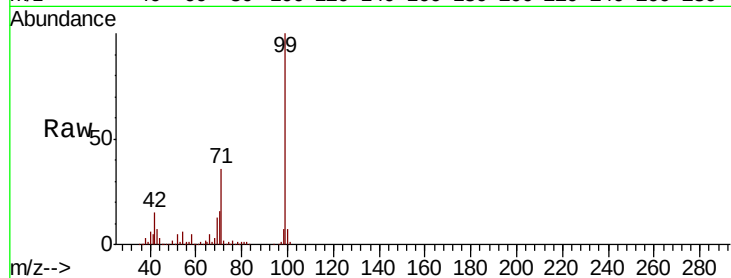
Tgt Ion: 99 Resp: 617656

Ion Ratio Lower Upper

99 100

42 14.9 13.7 20.5

71 35.9 30.8 46.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.725 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.13 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Tgt Ion: 70 Resp: 49598

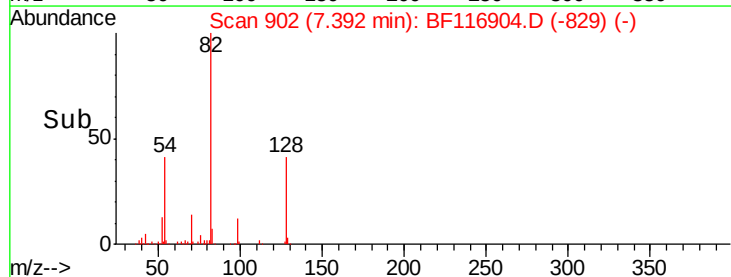
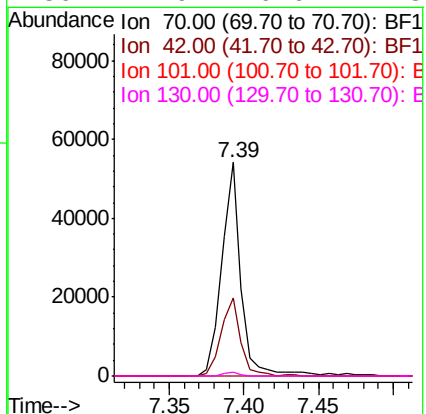
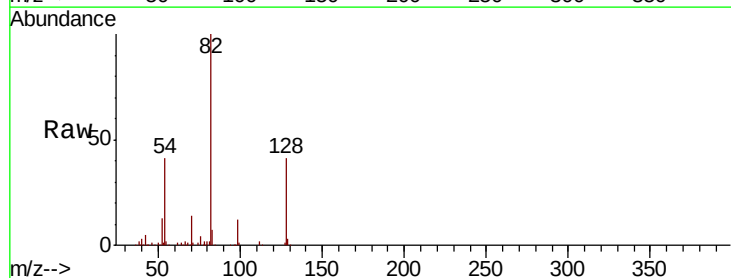
Ion Ratio Lower Upper

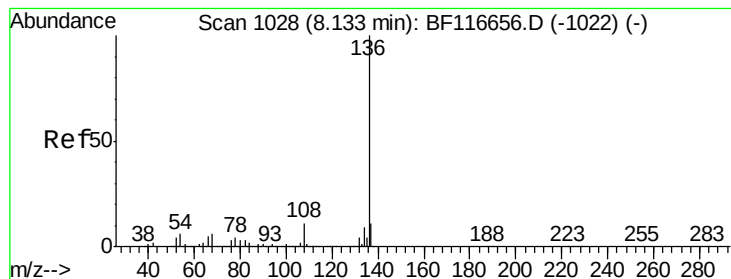
70 100

42 36.8 43.5 65.3#

101 0.0 7.8 11.6#

130 1.9 16.6 24.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

Tgt Ion: 136 Resp: 274561

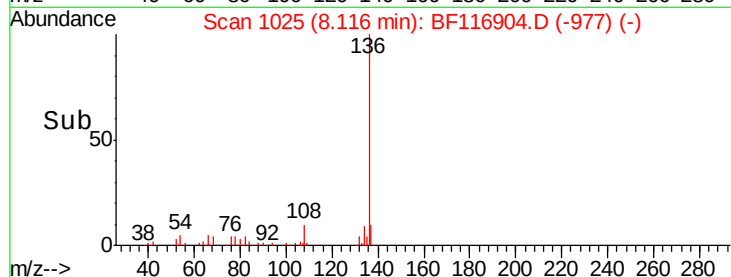
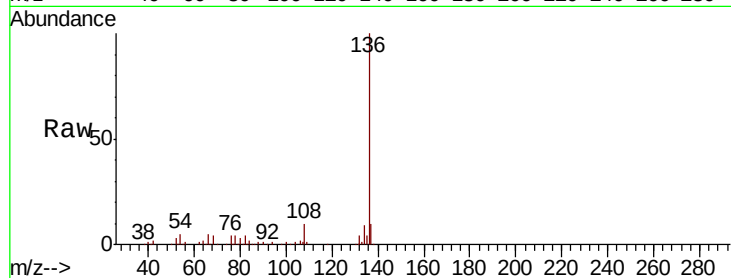
Ion Ratio Lower Upper

136 100

137 10.4 8.9 13.3

54 5.1 4.8 7.2

68 4.5 4.0 6.0

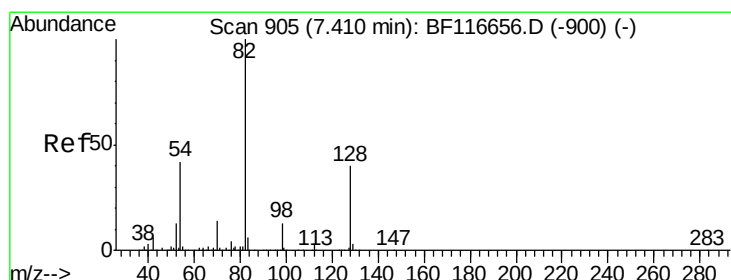
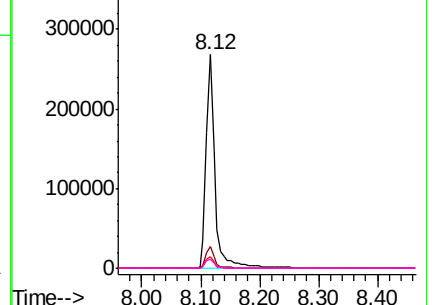


Abundance Ion 136.00 (135.70 to 136.70): E

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: 77.701 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

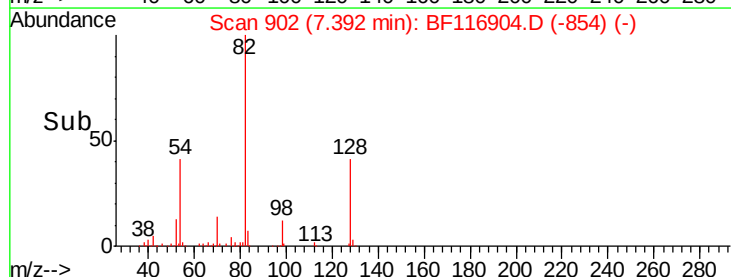
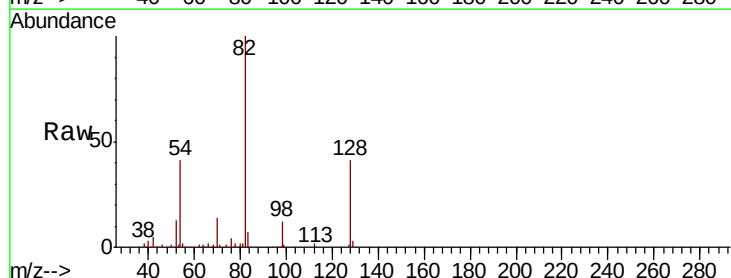
Tgt Ion: 82 Resp: 373703

Ion Ratio Lower Upper

82 100

128 41.1 32.8 49.2

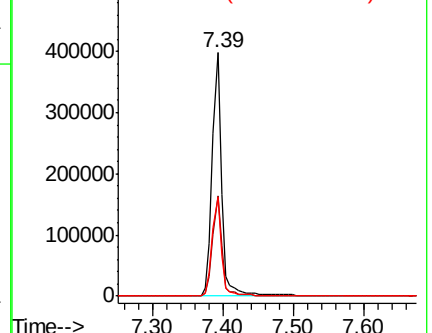
54 40.7 36.9 55.3

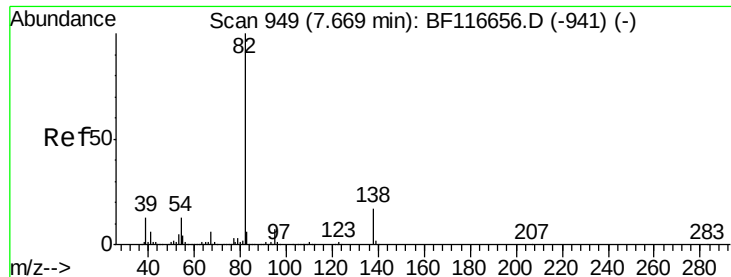


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 38.345 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.28 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

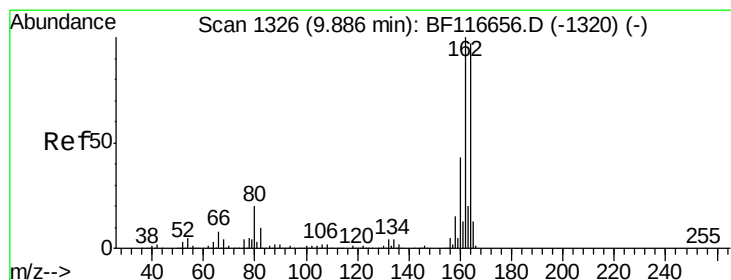
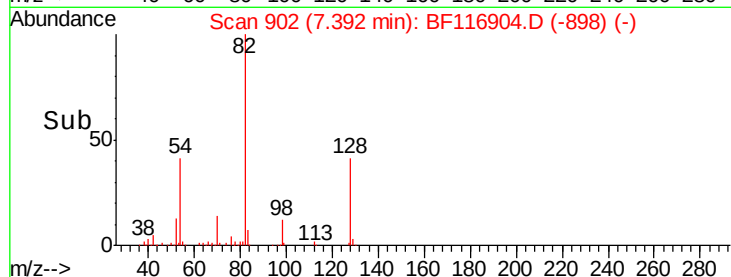
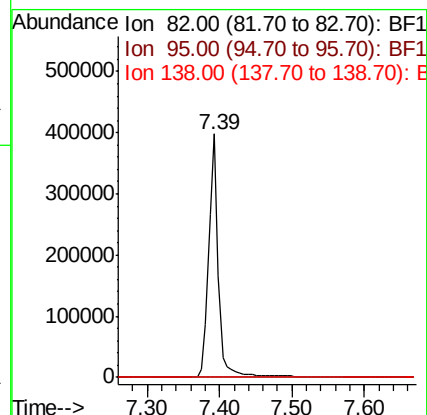
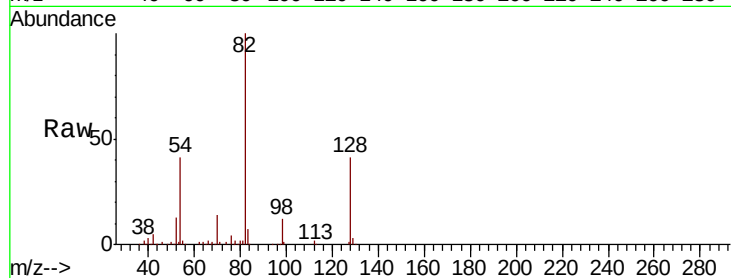
Tgt Ion: 82 Resp: 373701

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.5 20.3#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

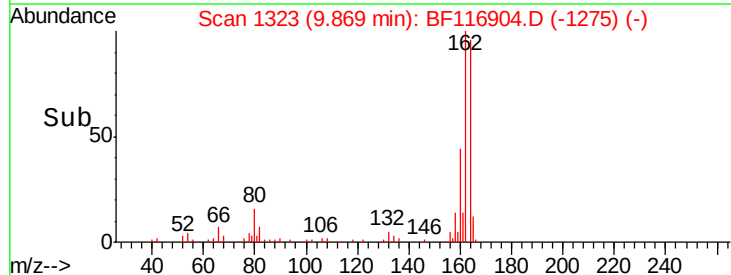
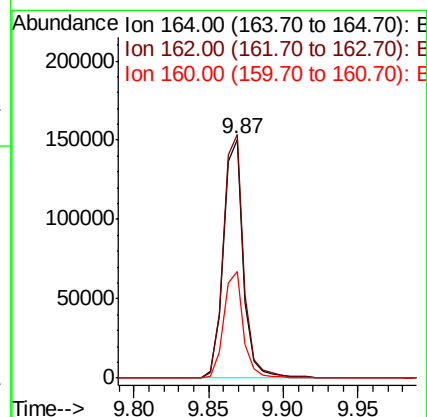
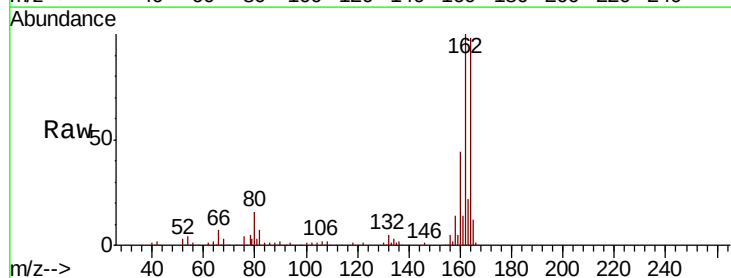
Tgt Ion: 164 Resp: 142302

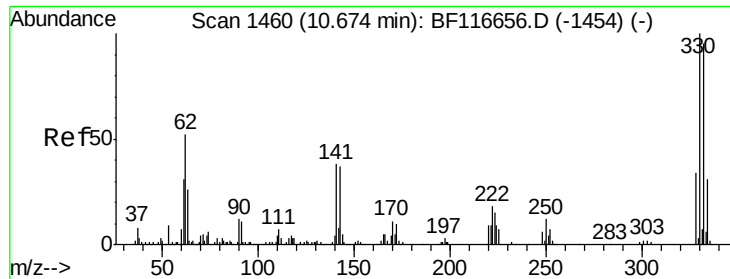
Ion Ratio Lower Upper

164 100

162 101.8 81.4 122.0

160 44.6 35.4 53.2

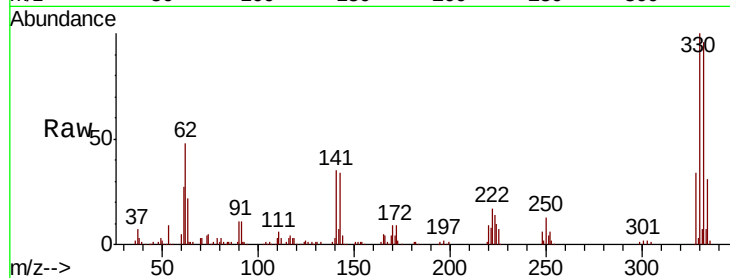




#42
 2,4,6-Tribromophenol
 Concen: 148.481 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. -0.02 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

Instrument :
 BNA_F
 ClientSampleId :
 RO-1-3

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.9	115.3
141	44.4	31.4	47.2

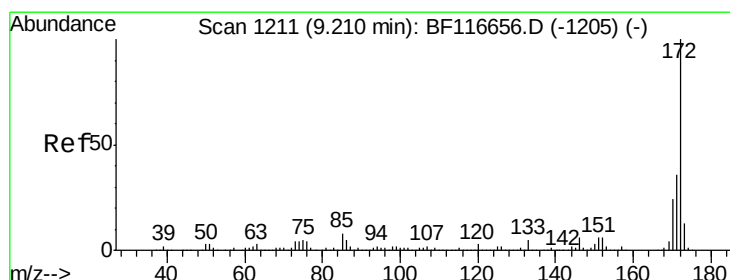
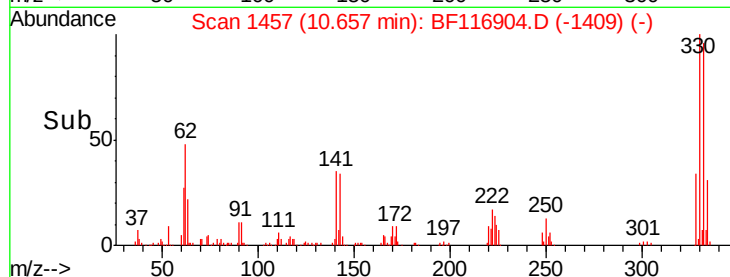
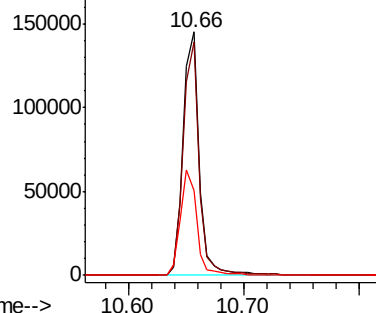


Abundance

Ion 329.80 (329.50 to 330.50): E

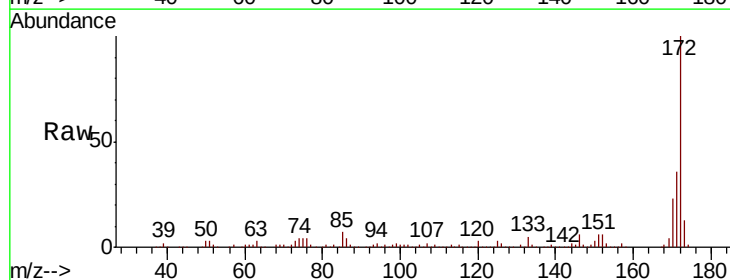
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 77.175 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.02 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	27.8	41.6
170	23.3	18.9	28.3

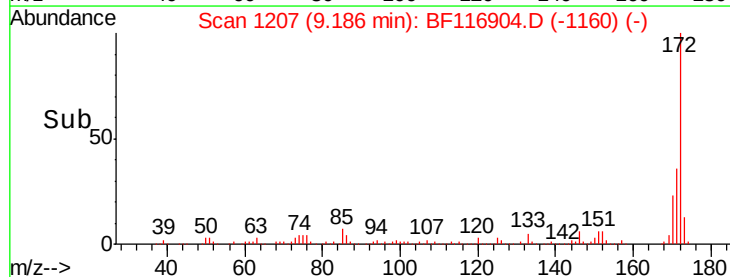
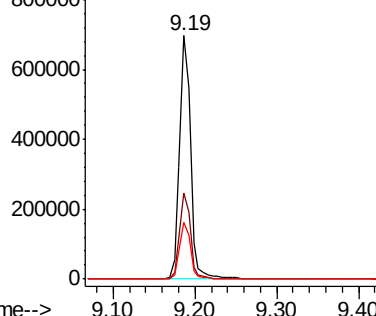


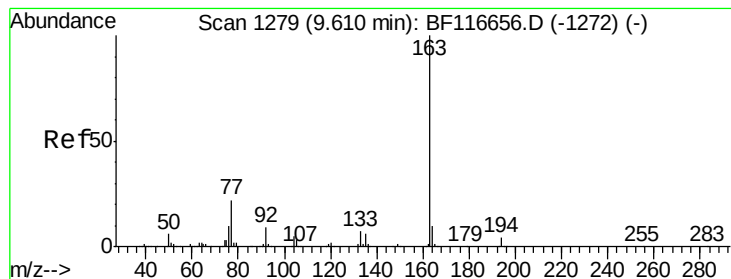
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 8.477 ng

RT: 9.58 min Scan# 1274

Delta R.T. -0.03 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

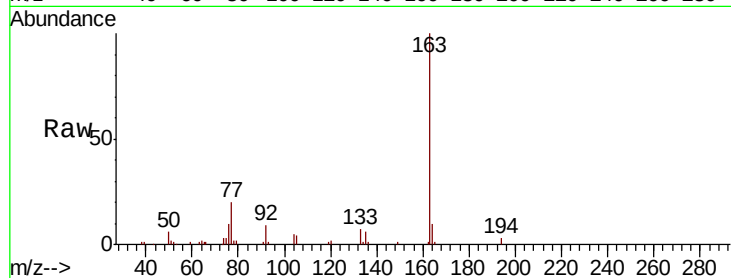
Tgt Ion:163 Resp: 83286

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

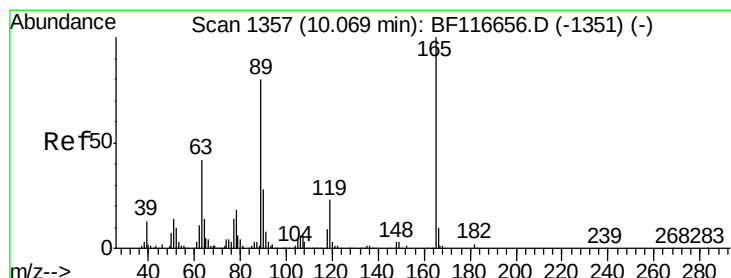
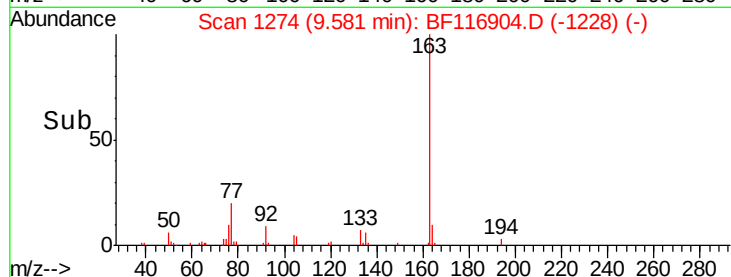
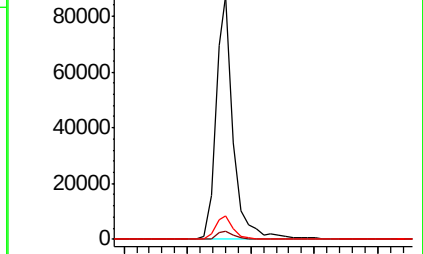
164 9.8 8.6 12.8



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 8.056 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.20 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Tgt Ion:165 Resp: 18465

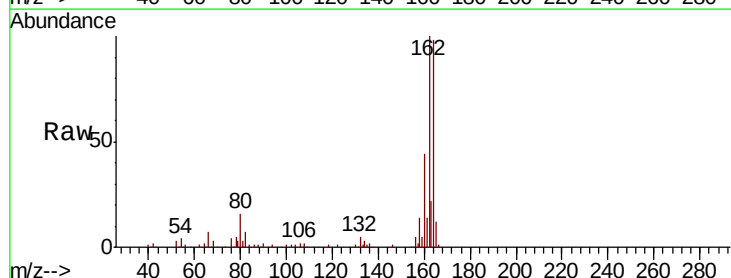
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 2.0 62.6 94.0#

182 0.0 2.1 3.1#

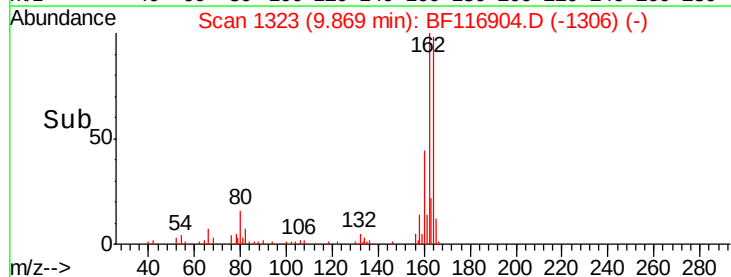
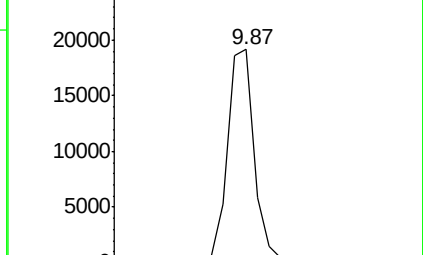


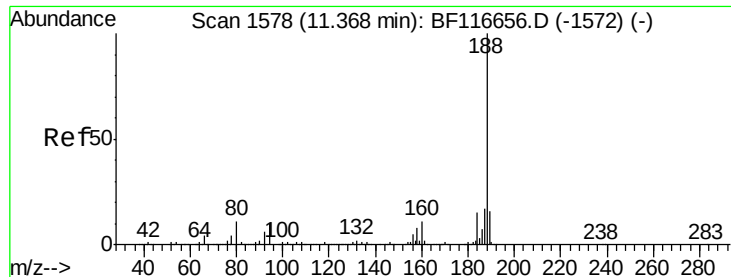
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

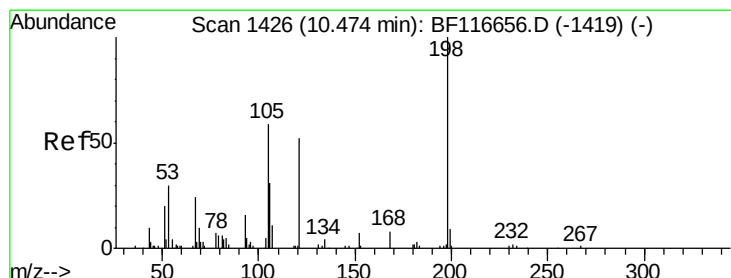
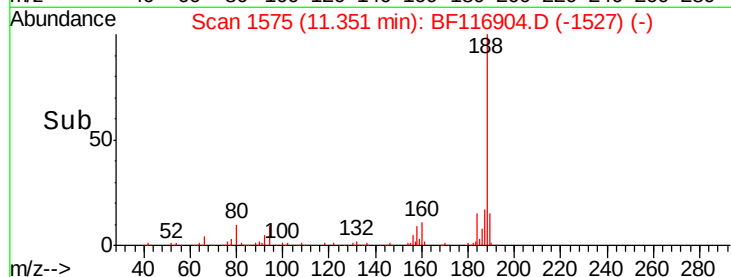
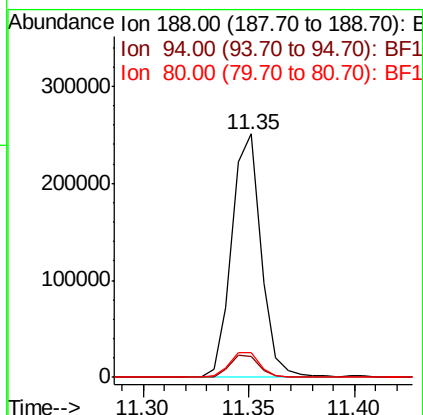
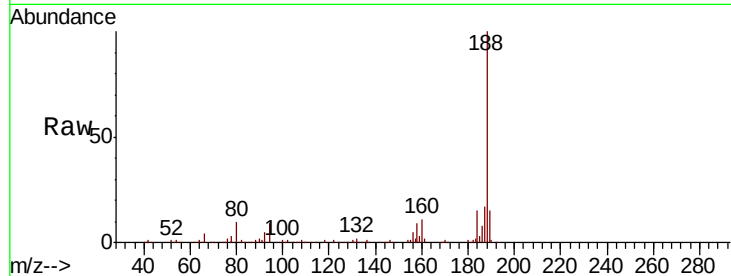




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

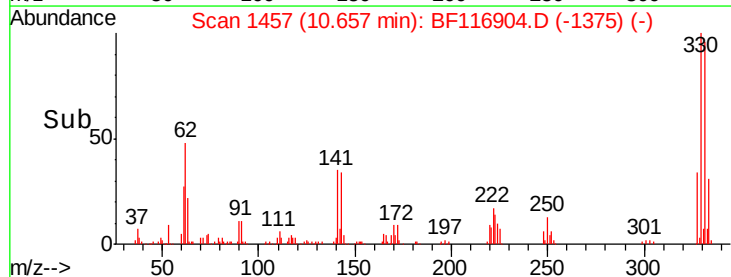
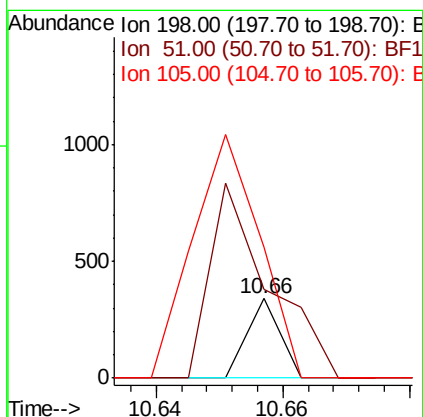
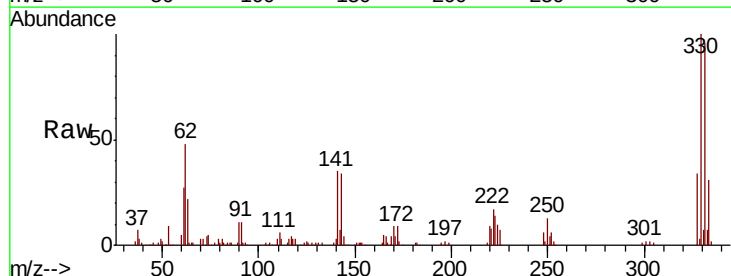
Instrument :
 BNA_F
 ClientSampleId :
 RO-1-3

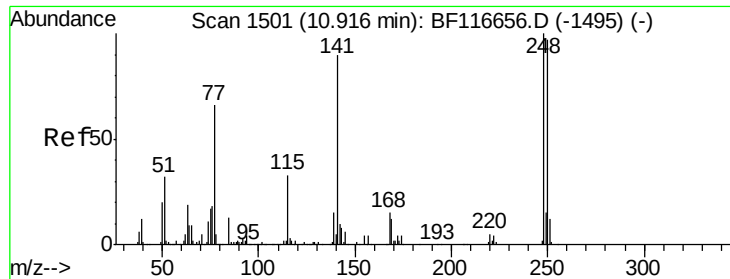
Tgt Ion:188 Resp: 241982
 Ion Ratio Lower Upper
 188 100
 94 8.6 7.3 10.9
 80 10.2 8.4 12.6



#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.565 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. 0.18 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

Tgt Ion:198 Resp: 120
 Ion Ratio Lower Upper
 198 100
 51 112.0 18.4 58.4#
 105 163.9 22.9 62.9#

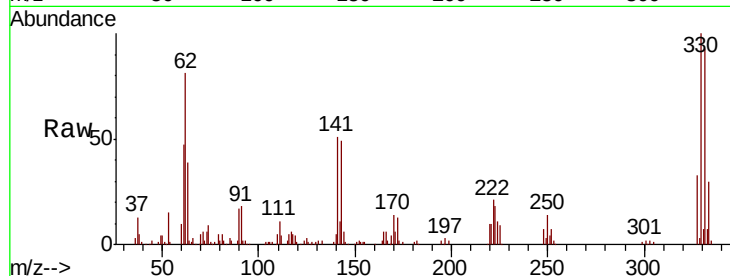




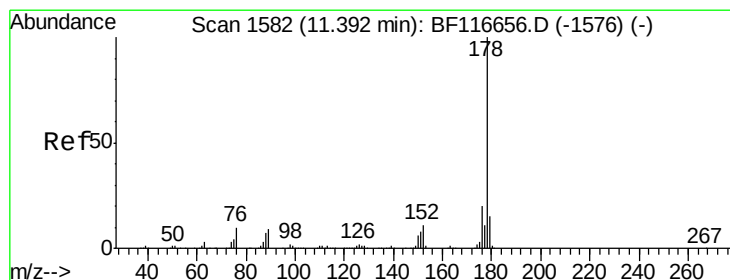
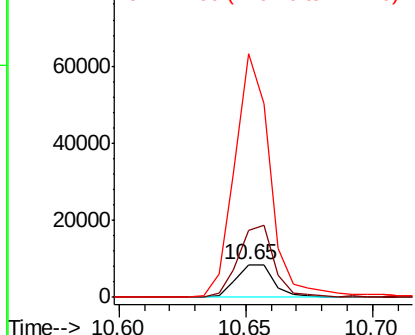
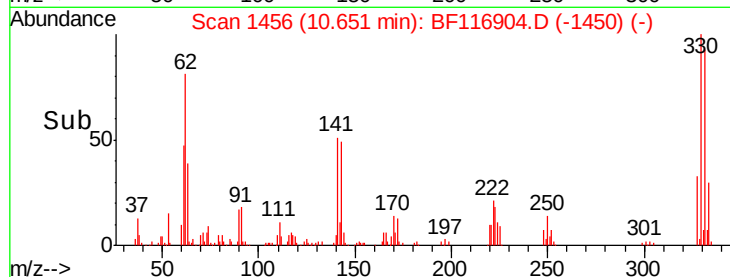
#67
 4-Bromophenyl-phenylether
 Concen: 3.582 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.26 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

Instrument :
 BNA_F
 ClientSampleId :
 RO-1-3

Tgt Ion: 248 Resp: 8805
 Ion Ratio Lower Upper
 248 100
 250 207.1 77.8 116.8#
 141 747.9 75.9 113.9#

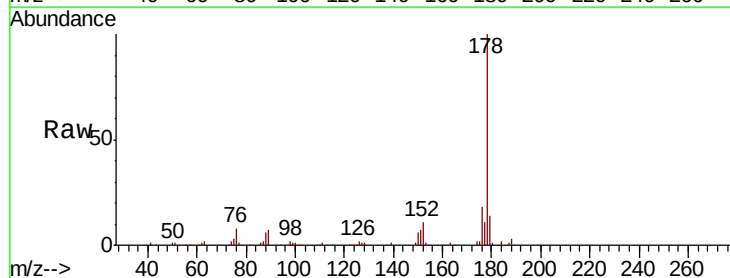


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

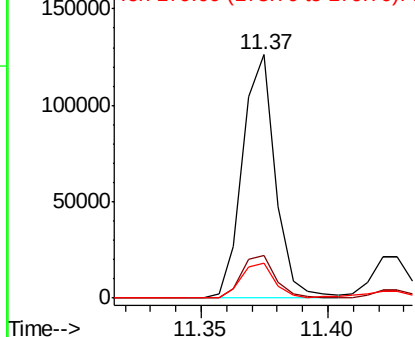
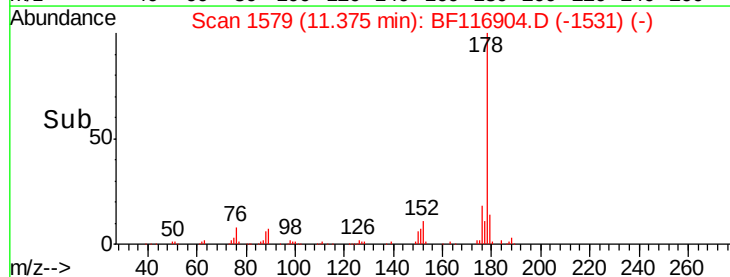


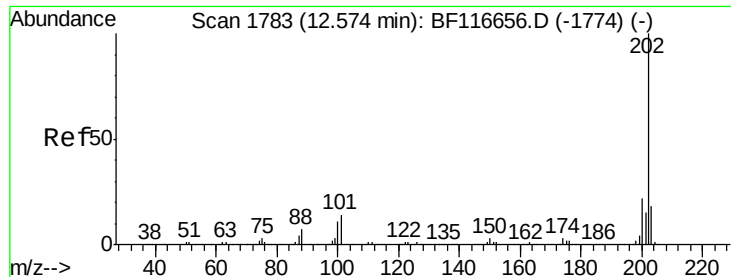
#71
 Phenanthrene
 Concen: 8.475 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.02 min
 Lab File: BF116904.D
 Acq: 9 Sep 2019 18:45

Tgt Ion: 178 Resp: 114166
 Ion Ratio Lower Upper
 178 100
 176 17.8 15.4 23.0
 179 14.4 12.2 18.2



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: 15.478 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

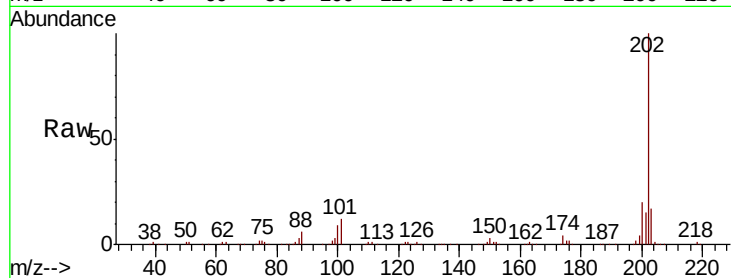
Tgt Ion: 202 Resp: 204898

Ion Ratio Lower Upper

202 100

101 12.2 0.0 31.3

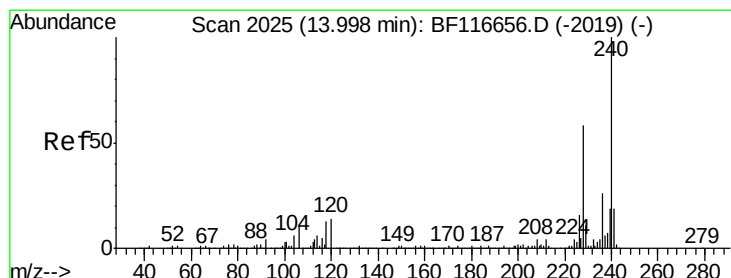
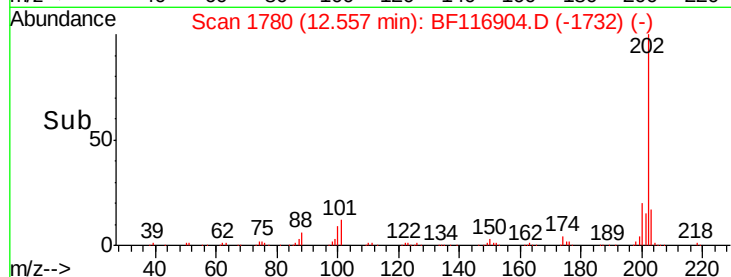
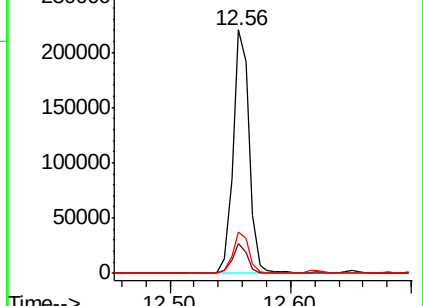
203 16.8 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

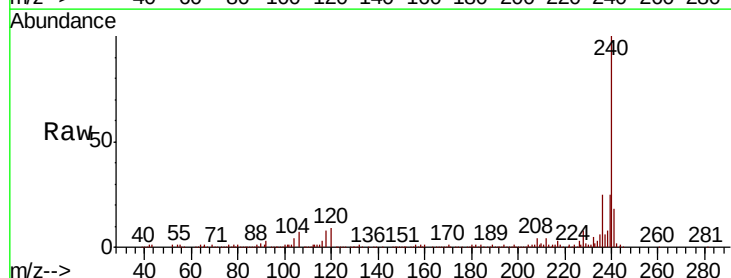
Tgt Ion: 240 Resp: 194521

Ion Ratio Lower Upper

240 100

120 9.2 9.1 13.7

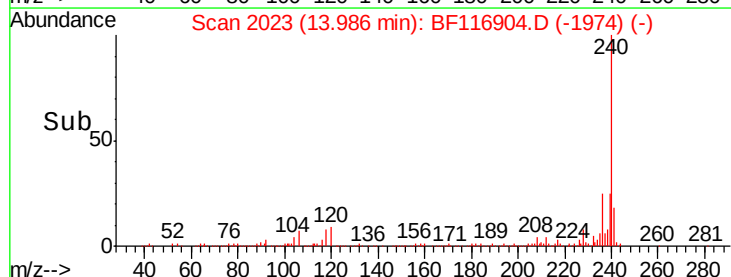
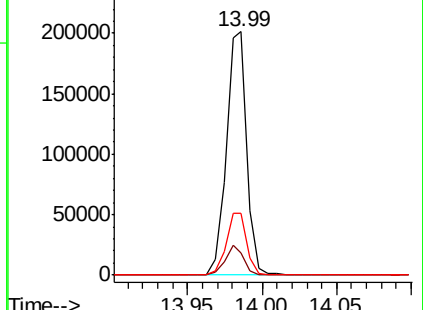
236 25.4 21.1 31.7

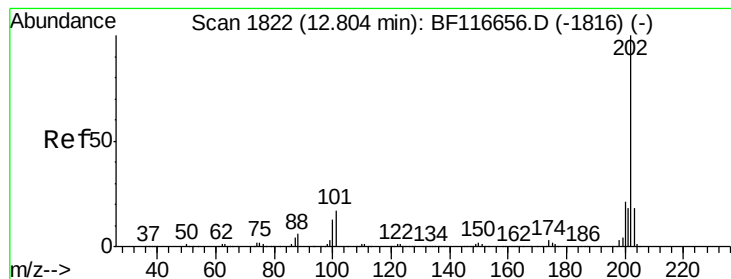


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 10.458 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampled :

RO-1-3

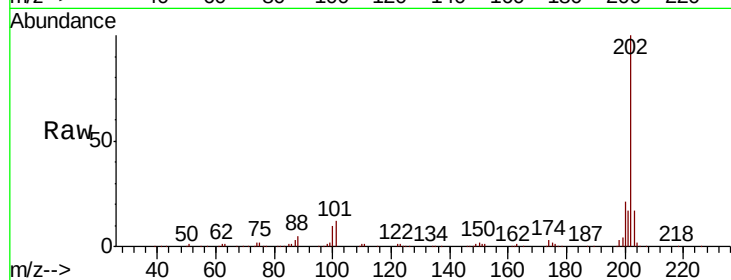
Tgt Ion: 202 Resp: 180832

Ion Ratio Lower Upper

202 100

200 21.3 16.5 24.7

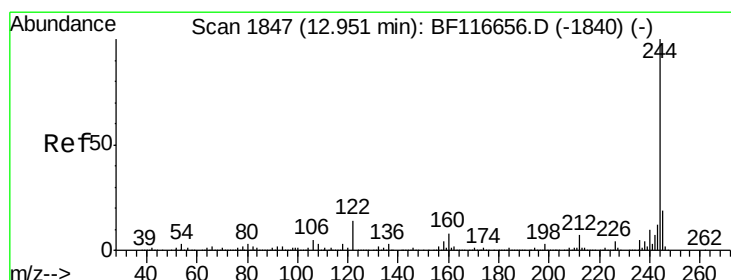
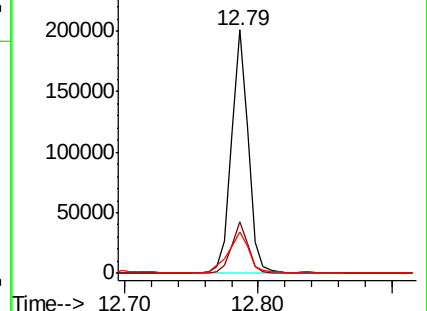
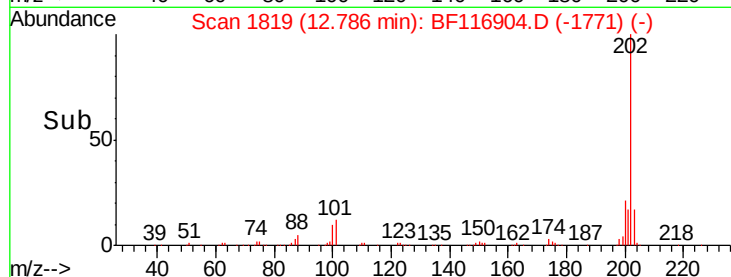
203 17.2 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 65.744 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

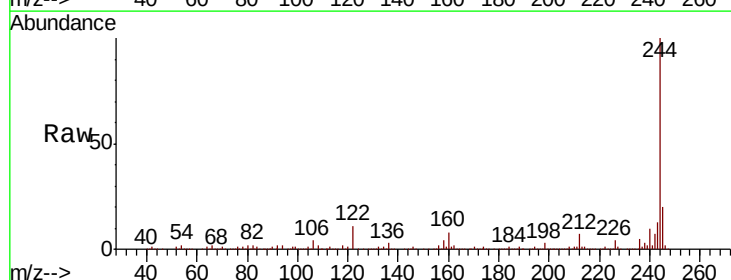
Tgt Ion: 244 Resp: 691295

Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

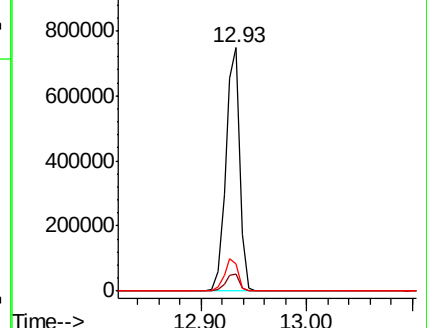
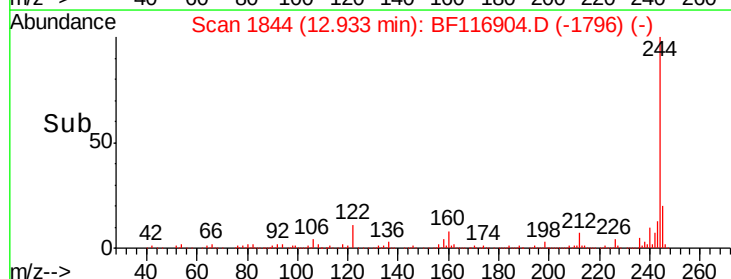
122 11.3 10.2 15.4

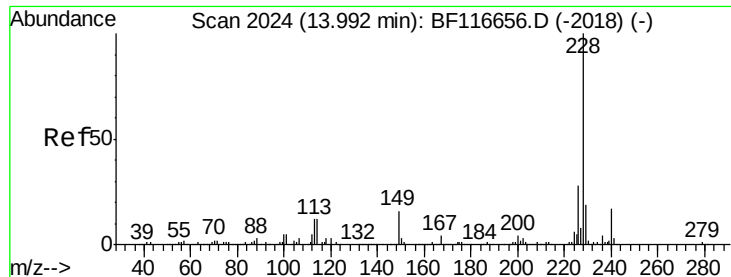


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 6.391 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampled :

RO-1-3

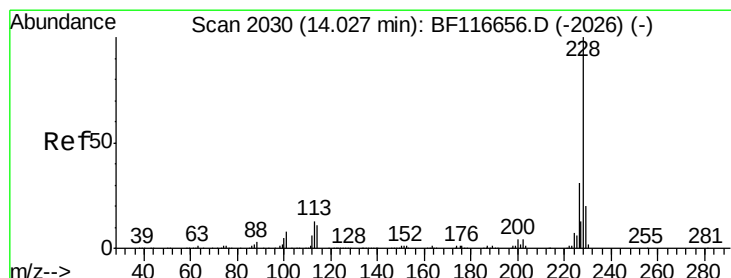
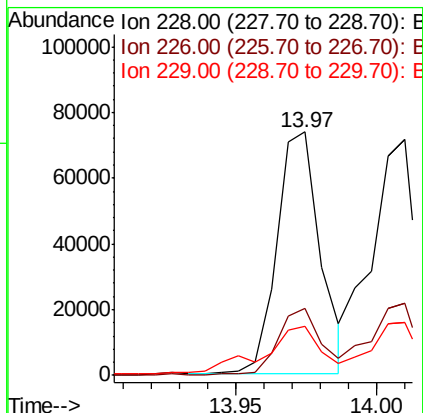
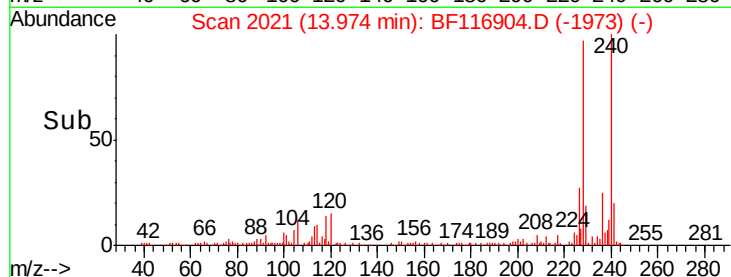
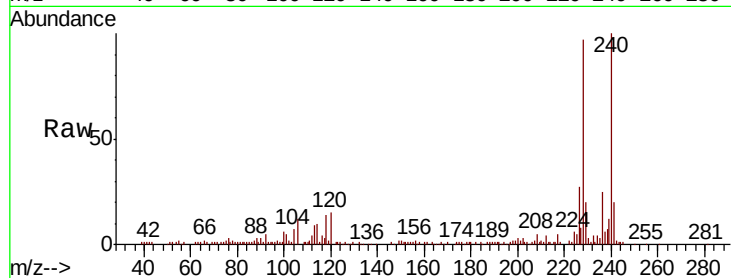
Tgt Ion:228 Resp: 78675

Ion Ratio Lower Upper

228 100

226 27.7 22.0 33.0

229 20.0 16.4 24.6



#83

Chrysene

Concen: 6.313 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

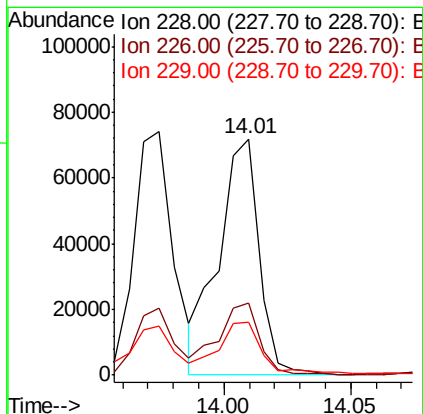
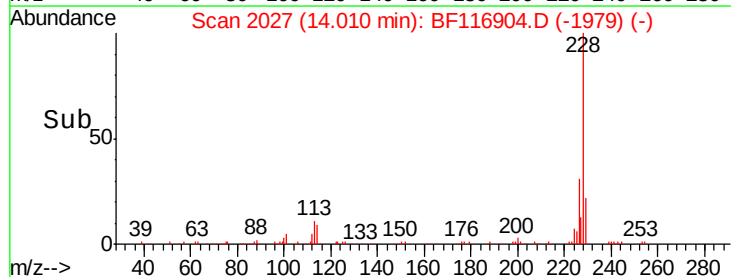
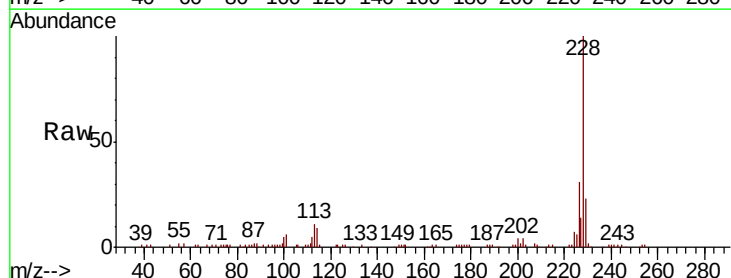
Tgt Ion:228 Resp: 80074

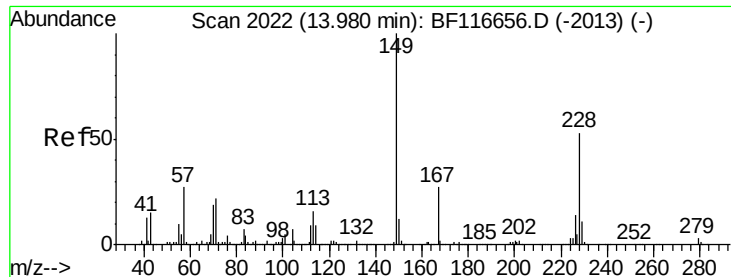
Ion Ratio Lower Upper

228 100

226 30.7 24.0 36.0

229 22.6 15.4 23.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.672 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

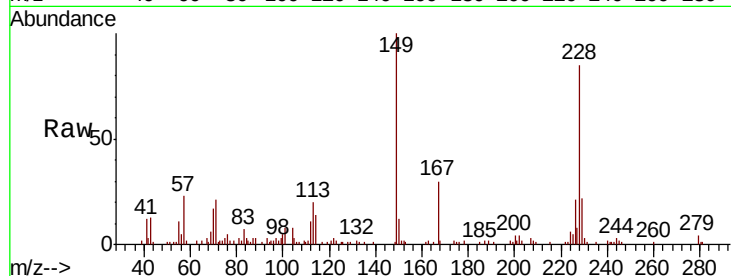
Tgt Ion:149 Resp: 27734

Ion Ratio Lower Upper

149 100

167 29.8 21.0 31.4

279 3.5 2.8 4.2

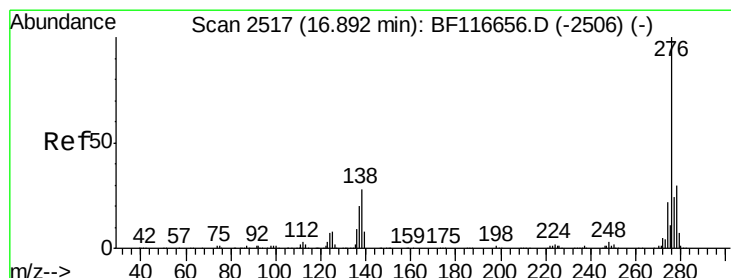
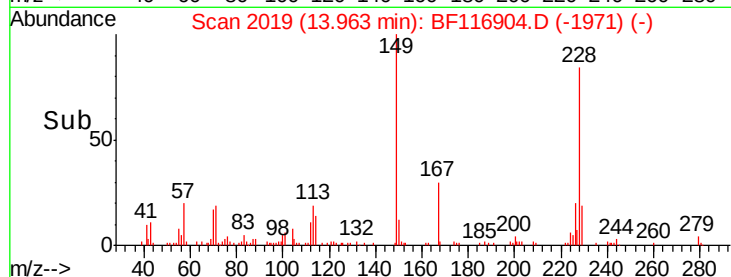
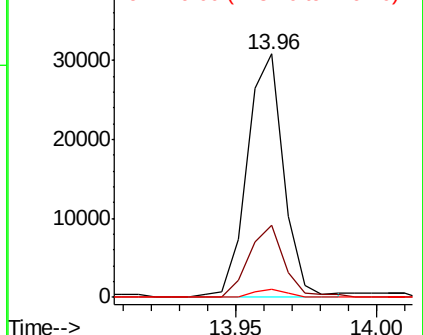


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.341 ng

RT: 16.88 min Scan# 2515

Delta R.T. -0.01 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

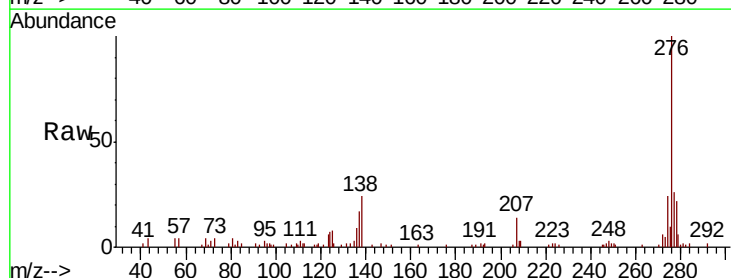
Tgt Ion:276 Resp: 54411

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.2

277 26.1 20.5 30.7

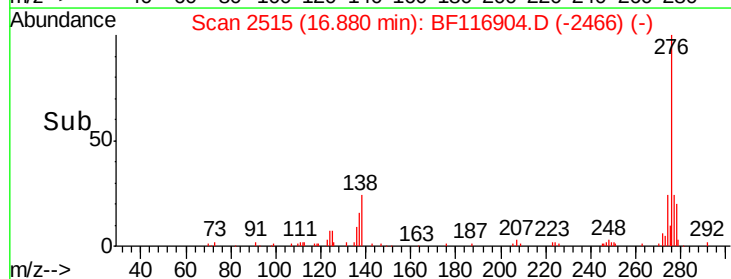
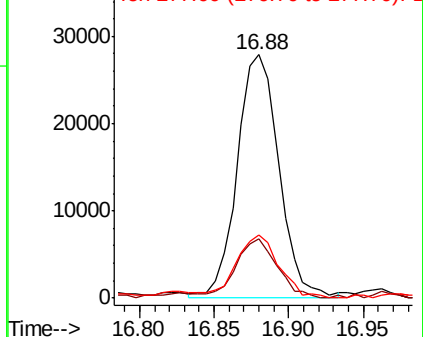


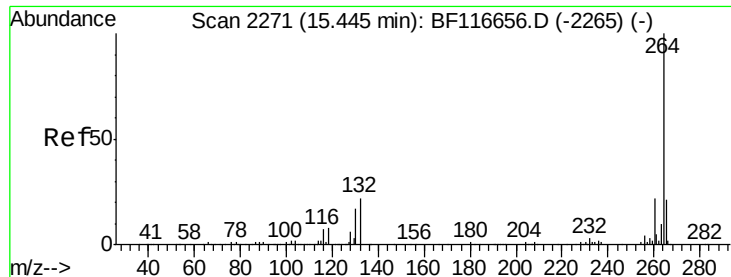
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

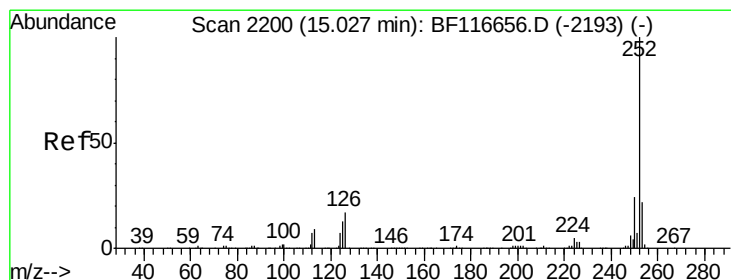
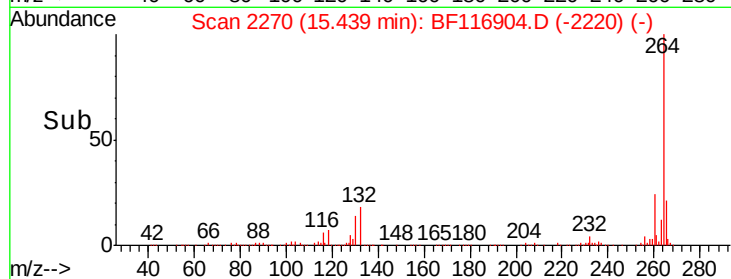
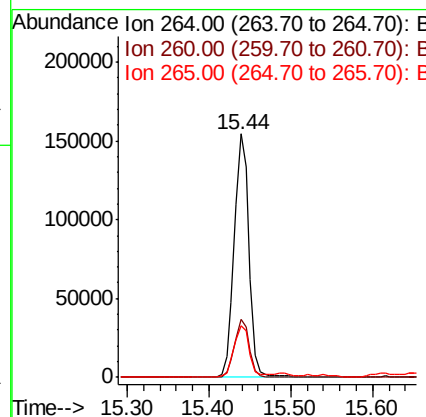
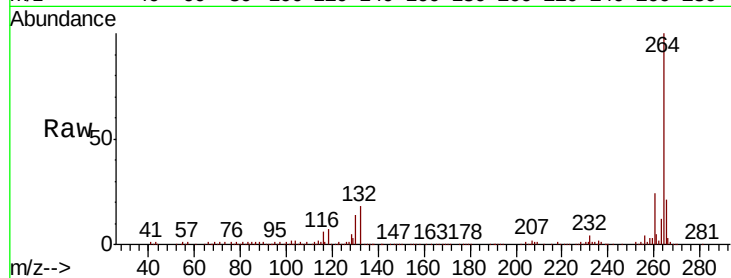




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

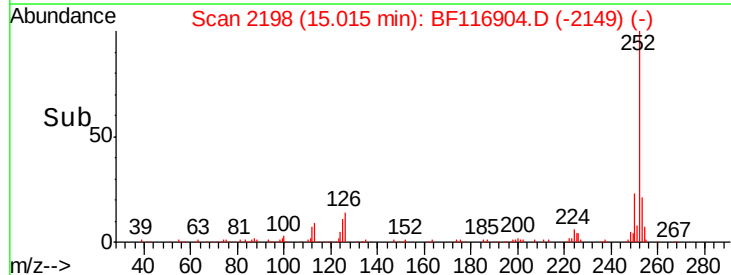
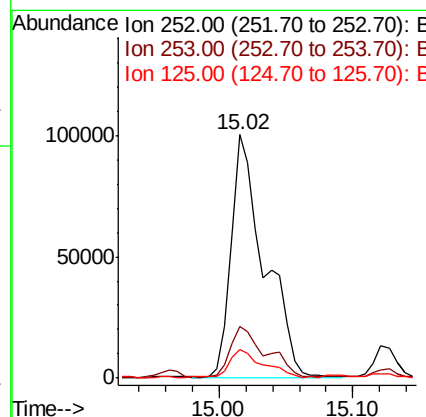
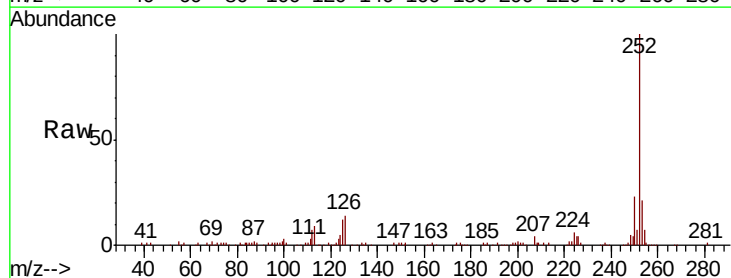
Instrument :
BNA_F
ClientSampleId :
RO-1-3

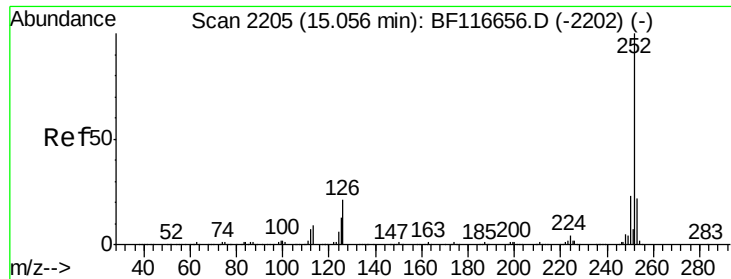
Tgt Ion: 264 Resp: 194431
Ion Ratio Lower Upper
264 100
260 23.9 18.3 27.5
265 21.2 16.5 24.7



#88
Benzo(b)fluoranthene
Concen: 15.011 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.01 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

Tgt Ion: 252 Resp: 176454
Ion Ratio Lower Upper
252 100
253 21.1 17.7 26.5
125 11.8 8.2 12.2

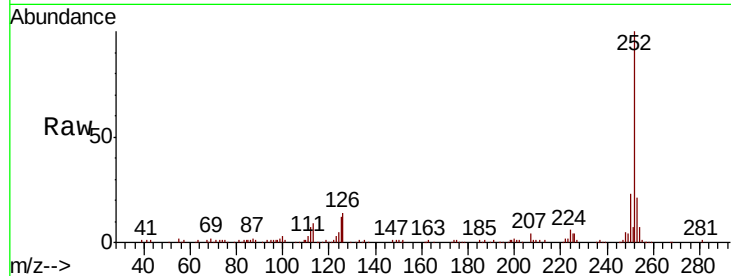




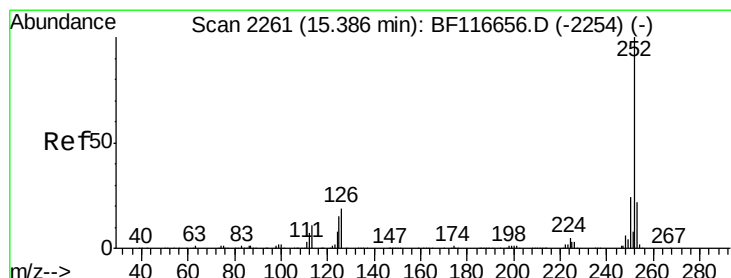
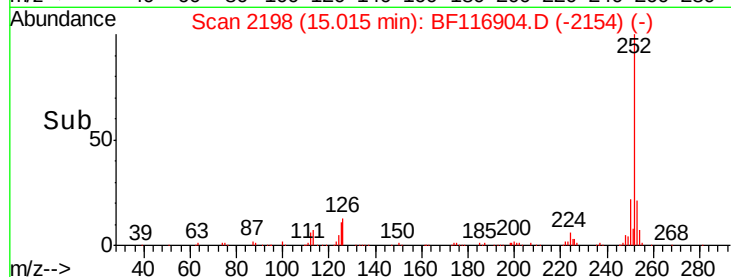
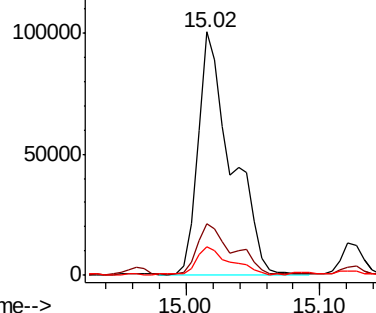
#89
Benzo(k)fluoranthene
Concen: 16.463 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.04 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

Instrument :
BNA_F
ClientSampled :
RO-1-3

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.7	26.5
125	11.8	8.6	13.0

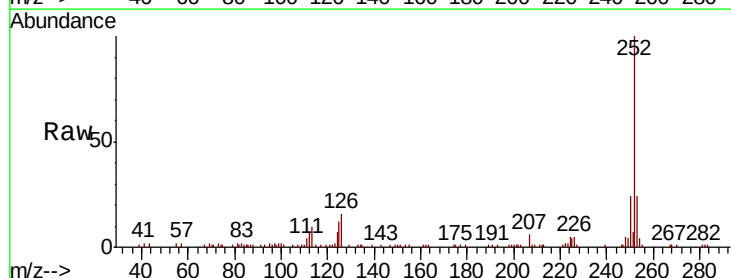


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

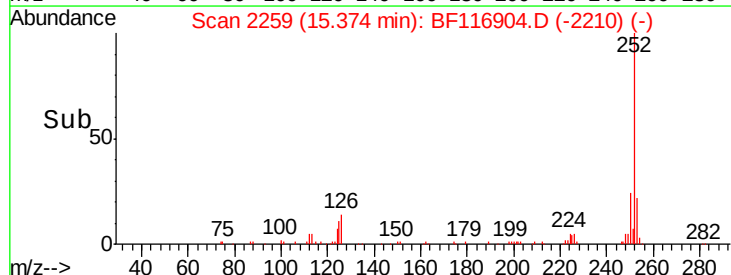
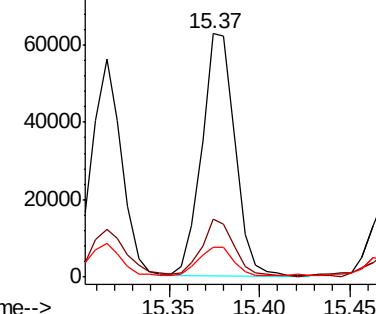


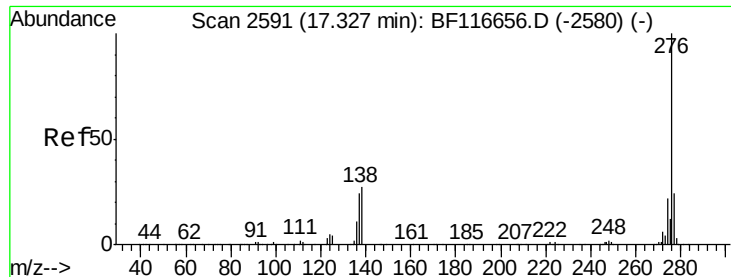
#90
Benzo(a)pyrene
Concen: 7.835 ng
RT: 15.37 min Scan# 2259
Delta R.T. -0.01 min
Lab File: BF116904.D
Acq: 9 Sep 2019 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	12.3	9.8	14.8



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





#92

Benzo(g,h,i)perylene

Concen: 5.660 ng

RT: 17.32 min Scan# 2589

Delta R.T. -0.01 min

Lab File: BF116904.D

Acq: 9 Sep 2019 18:45

Instrument :

BNA_F

ClientSampleId :

RO-1-3

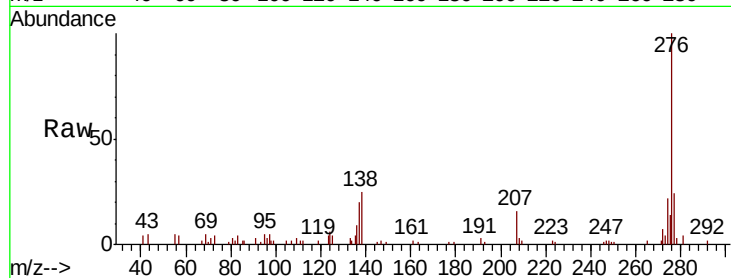
Tgt Ion: 276 Resp: 51671

Ion Ratio Lower Upper

276 100

277 23.9 18.5 27.7

138 24.7 16.2 24.2#



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

