

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
 Data File : BF116631.D
 Acq On : 28 Aug 2019 22:46
 Operator : HP/JU
 Sample : K4573-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 29 03:33:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 28 13:34:15 2019
 Response via : Initial Calibration

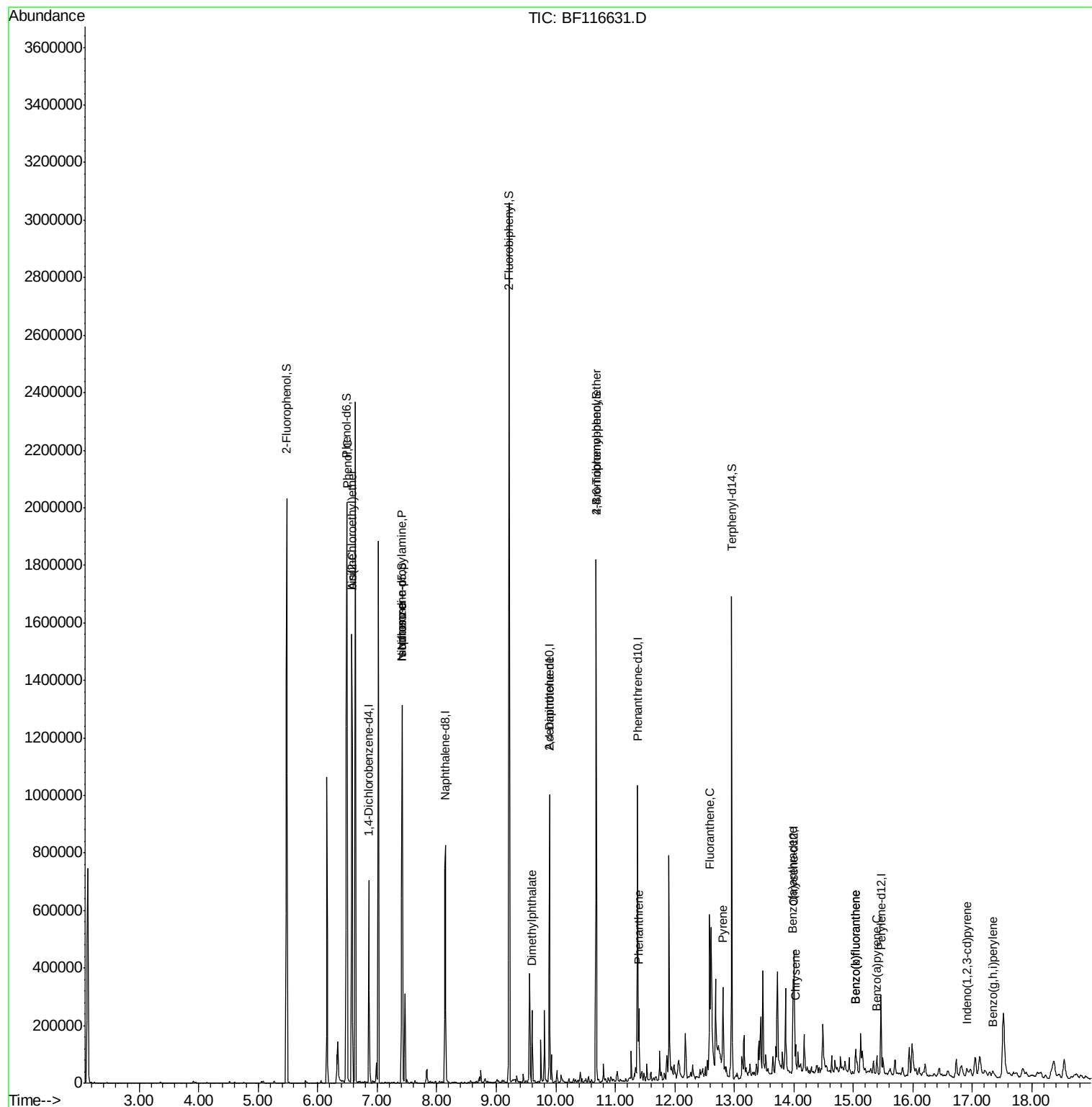
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	88161	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	375601	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	201036	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	339572	20.00	ng	0.00
76) Chrysene-d12	14.00	240	106340	20.00	ng	0.00
87) Perylene-d12	15.46	264	122876	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	544532	106.68	ng	0.00
7) Phenol-d6	6.49	99	764240	110.44	ng	0.00
23) Nitrobenzene-d5	7.42	82	461964	70.38	ng	-0.01
42) 2,4,6-Tribromophenol	10.68	330	191622	100.16	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	933536	77.28	ng	0.00
79) Terphenyl-d14	12.96	244	527559	80.68	ng	0.00
Target Compounds						
6) Aniline	6.57	93	312761	33.551	ng	Qvalue # 49
9) Benzaldehyde	6.32	77	3682	Below Cal		# 20
10) Phenol	6.50	94	43920	5.786	ng	97
11) bis(2-Chloroethyl)ether	6.57	93	312761	55.442	ng	# 24
19) n-Nitroso-di-n-propylamine	7.42	70	62551	14.214	ng	# 79
25) Isophorone	7.42	82	460142	38.507	ng	# 65
50) Dimethylphthalate	9.60	163	82305	6.090	ng	99
57) 2,4-Dinitrotoluene	9.89	165	25705	6.537	ng	# 26
67) 4-Bromophenyl-phenylether	10.68	248	12714	3.530	ng	# 1
71) Phenanthrene	11.40	178	75974	4.165	ng	98
75) Fluoranthene	12.59	202	157279	9.615	ng	97
78) Pvrene	12.81	202	112634	11.519	ng	98
81) Benzo(a)anthracene	13.99	228	29483	4.159	ng	94
83) Chrysene	14.03	228	35030	5.047	ng	97
86) Indeno(1,2,3-cd)pyrene	16.90	276	19869	7.300	ng	95
88) Benzo(b)fluoranthene	15.04	252	60657	8.039	ng	94
89) Benzo(k)fluoranthene	15.04	252	60657	8.457	ng	94
90) Benzo(a)pyrene	15.40	252	28452	4.225	ng	98
92) Benzo(a,h,i)perylene	17.34	276	16494	2.524	ng	# 94

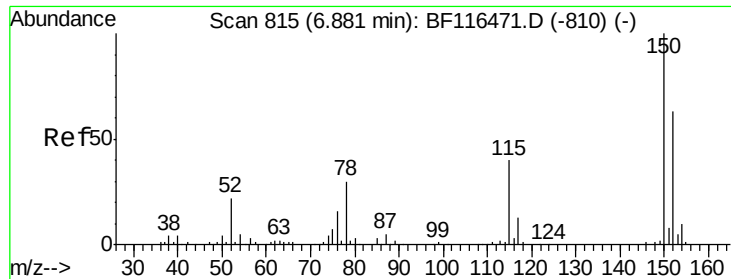
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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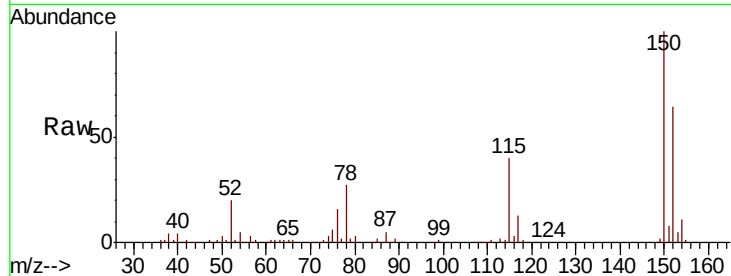


#1

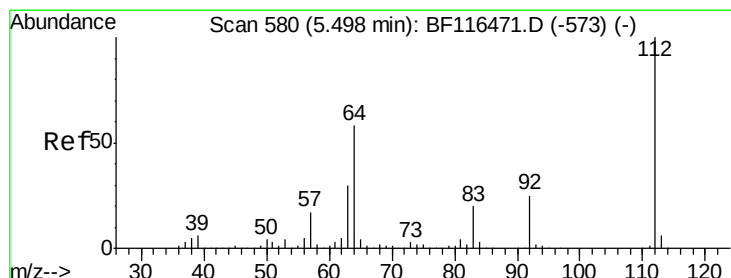
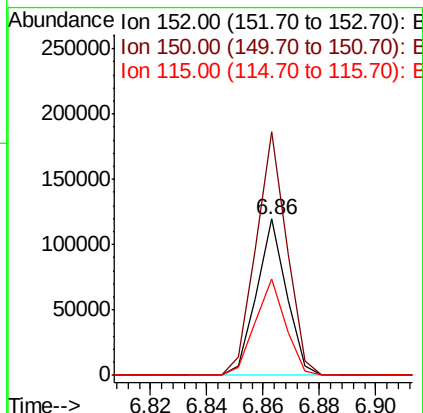
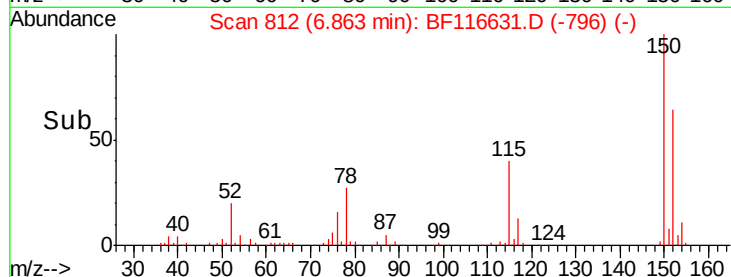
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 88161
 Ion Ratio Lower Upper
 152 100
 150 155.8 123.4 185.2
 115 61.9 48.2 72.2



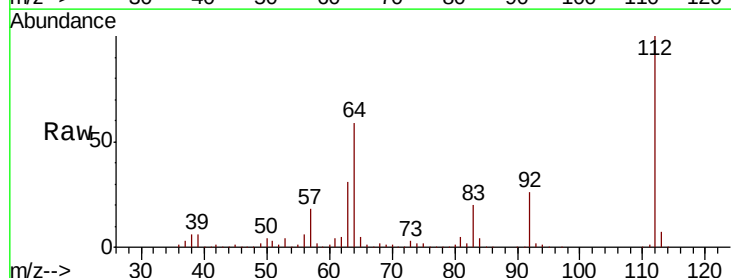
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



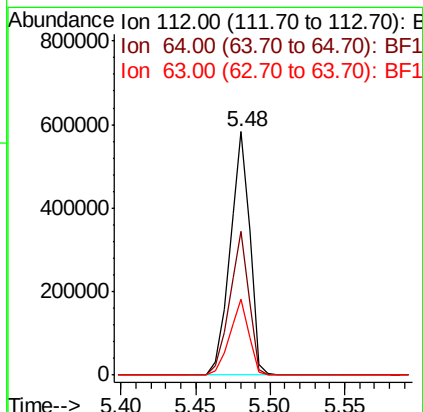
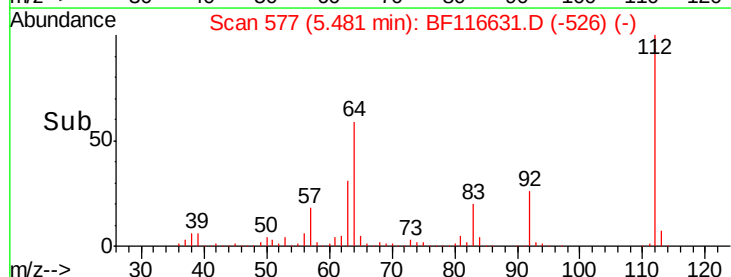
#5

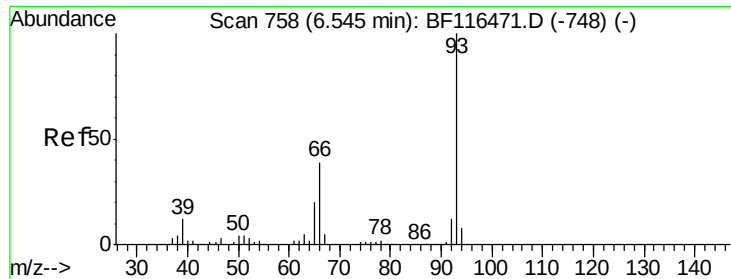
2-Fluorophenol
 Concen: 106.683 ng
 RT: 5.48 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Tgt Ion:112 Resp: 544532
 Ion Ratio Lower Upper
 112 100
 64 58.9 48.0 72.0
 63 31.1 24.6 36.8



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





#6

Aniline

Concen: 33.551 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.05 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

Instrument :

BNA_F

ClientSampled :

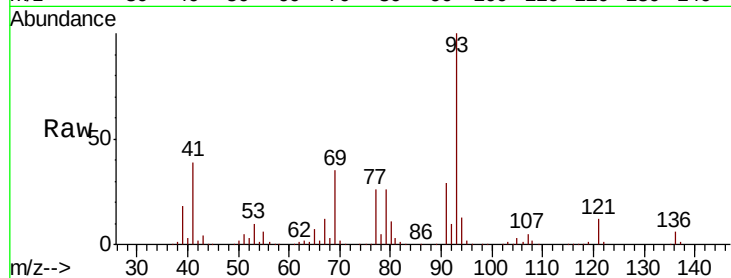
Tot Ion: 93 Resp: 312761

Ion Ratio Lower Upper

93 100

66 2.2 32.1 48.1#

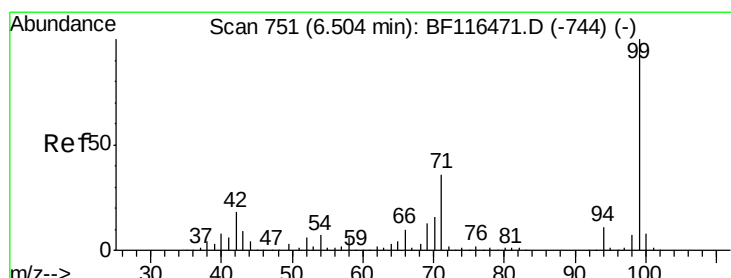
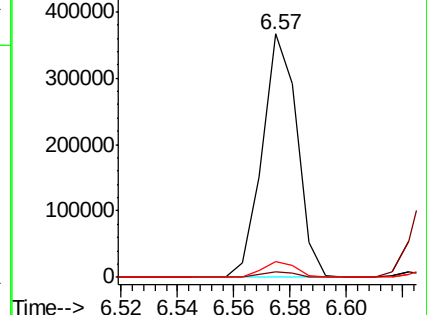
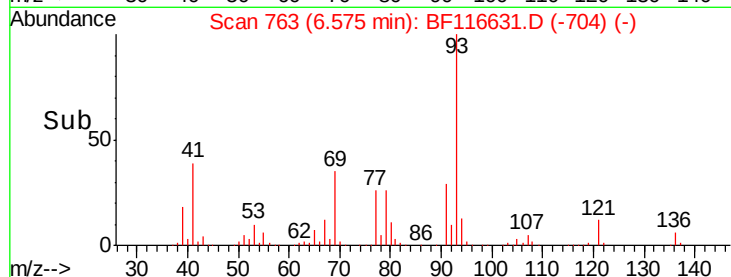
65 6.7 16.2 24.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 110.440 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

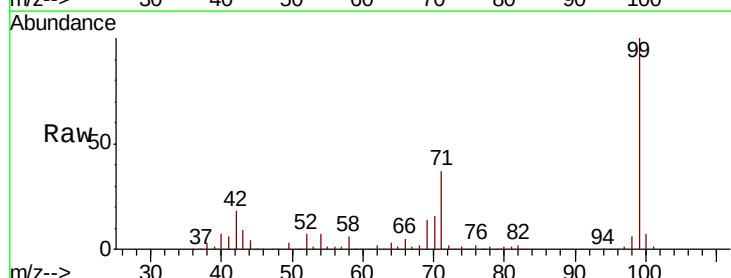
Tgt Ion: 99 Resp: 764240

Ion Ratio Lower Upper

99 100

42 18.1 13.2 19.8

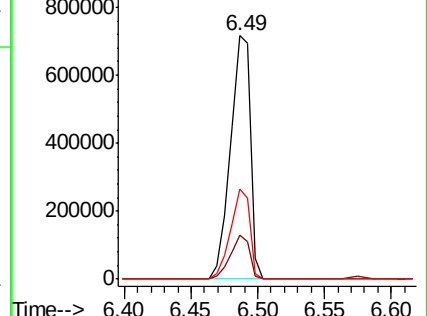
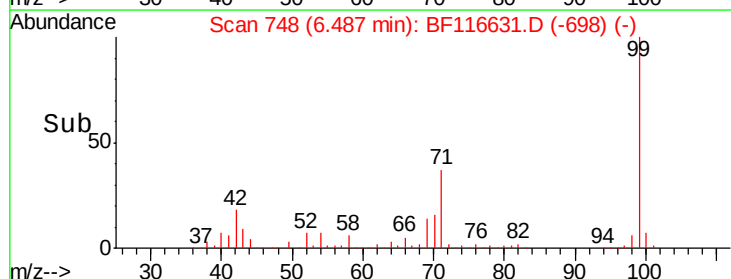
71 37.1 27.4 41.2

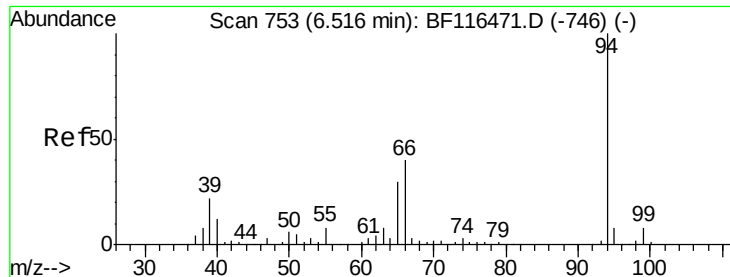


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

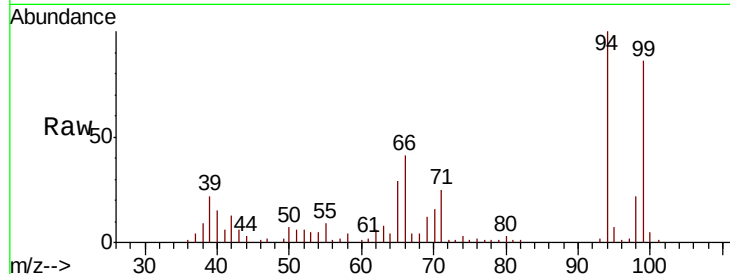




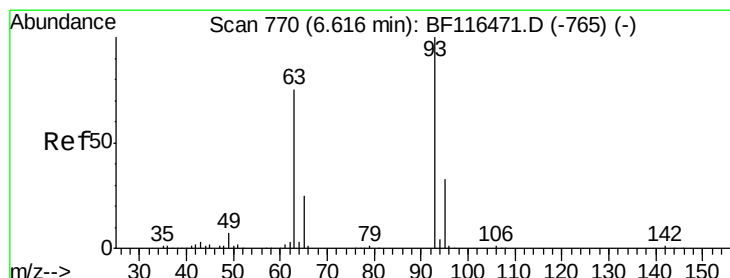
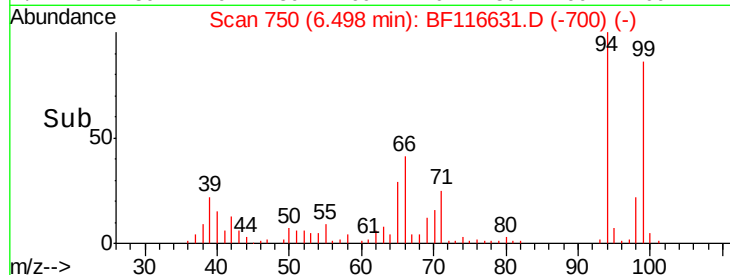
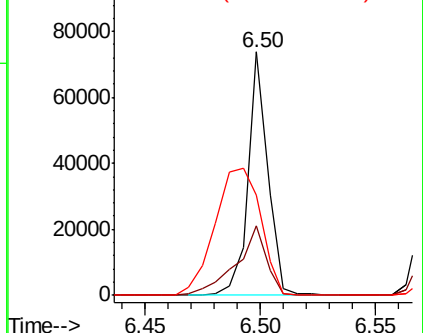
#10
Phenol
Concen: 5.786 ng
RT: 6.50 min Scan# 750
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampled :

Tot Ion: 94 Resp: 43920
Ion Ratio Lower Upper
94 100
65 28.6 8.6 48.6
66 41.0 18.0 58.0

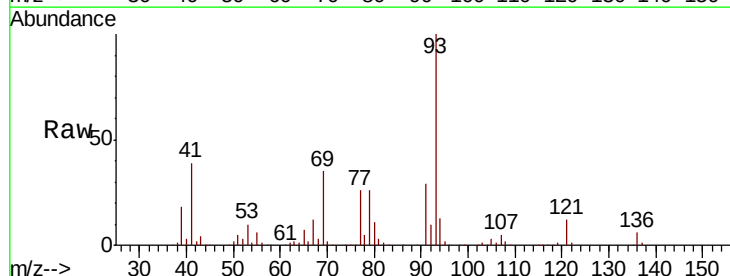


Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

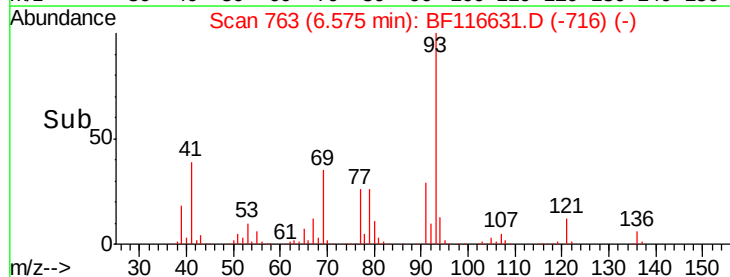
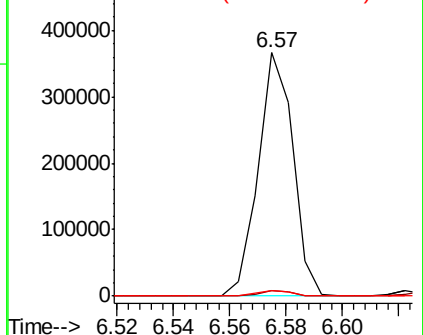


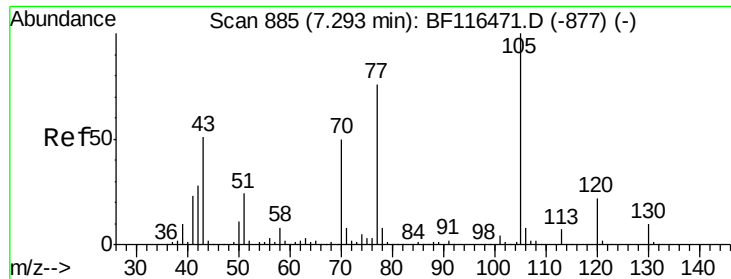
#11
bis(2-Chloroethyl)ether
Concen: 55.442 ng
RT: 6.57 min Scan# 763
Delta R.T. -0.02 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion: 93 Resp: 312761
Ion Ratio Lower Upper
93 100
63 2.1 54.7 94.7#
95 2.1 12.7 52.7#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1

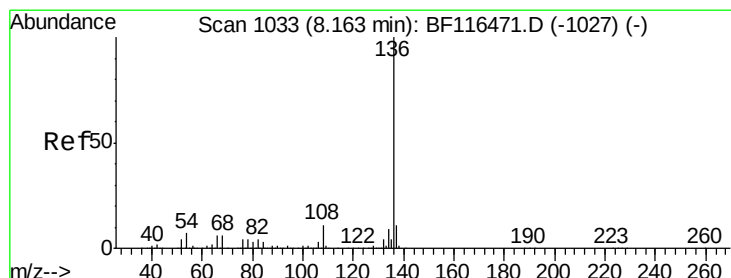
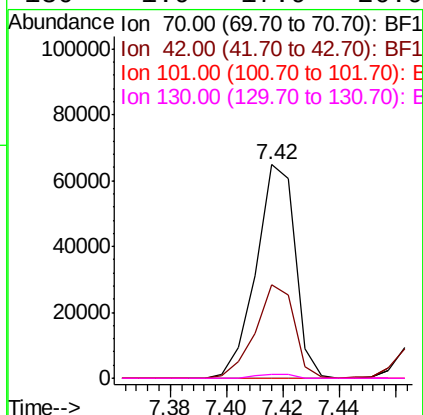
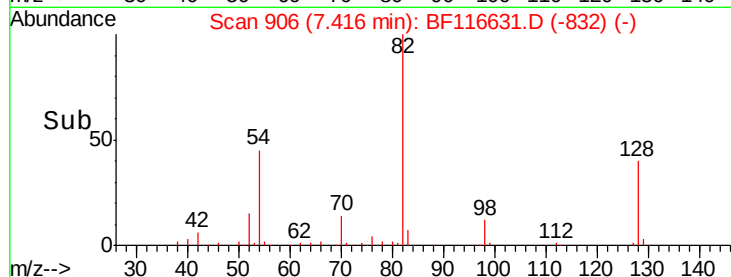
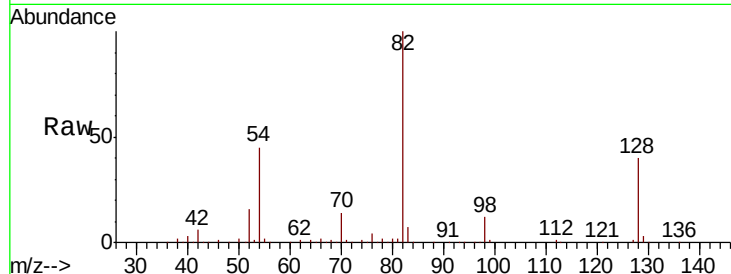




#19
n-Nitroso-di-n-propylamine
Concen: 14.214 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.14 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

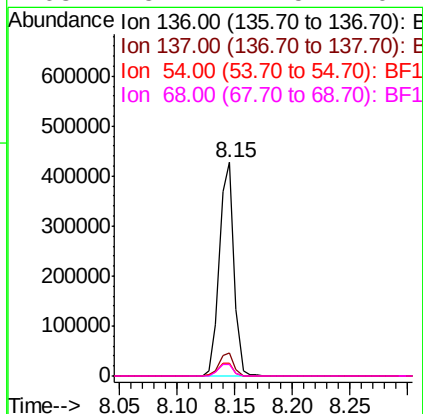
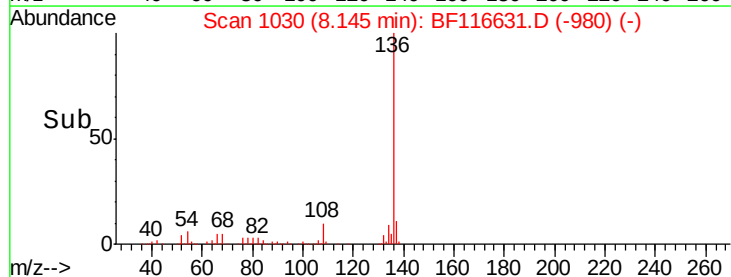
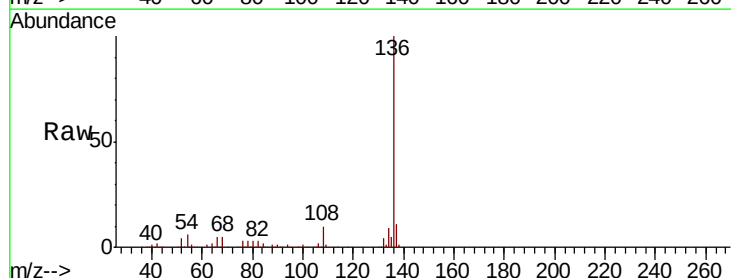
Instrument :
BNA_F
ClientSampleId :

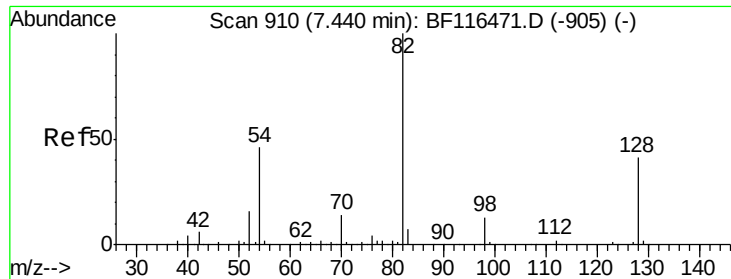
Tot Ion: 70 Resp: 62551
Ion Ratio Lower Upper
70 100
42 43.8 41.2 61.8
101 0.0 7.7 11.5#
130 1.9 17.9 26.9#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion: 136 Resp: 375601
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 6.1 5.0 7.4
68 5.4 4.5 6.7

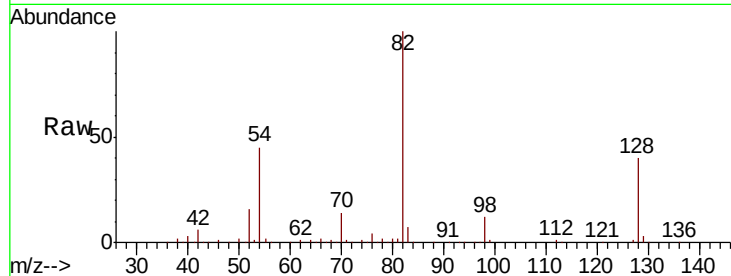




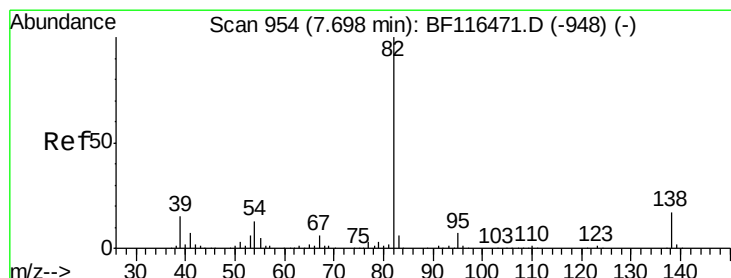
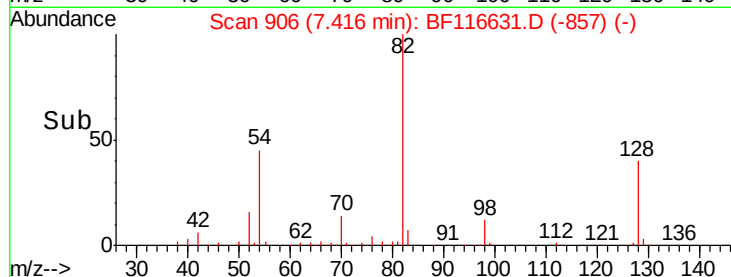
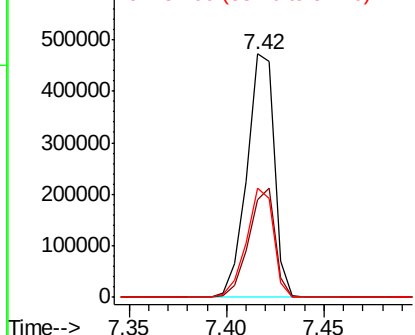
#23
Nitrobenzene-d5
Concen: 70.377 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	461964
Ion Ratio	100	Lower	Upper
128	40.4	35.0	52.6
54	45.0	34.4	51.6

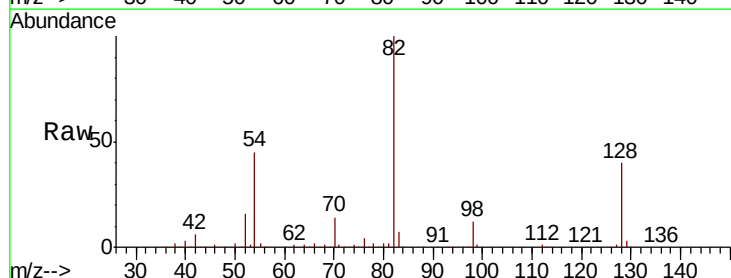


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

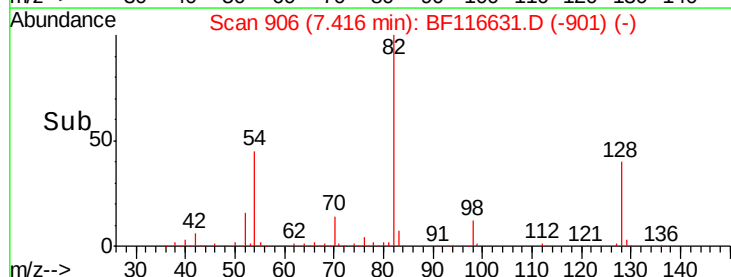
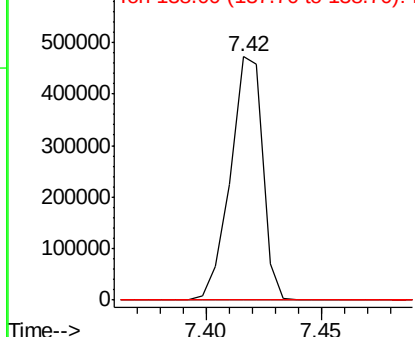


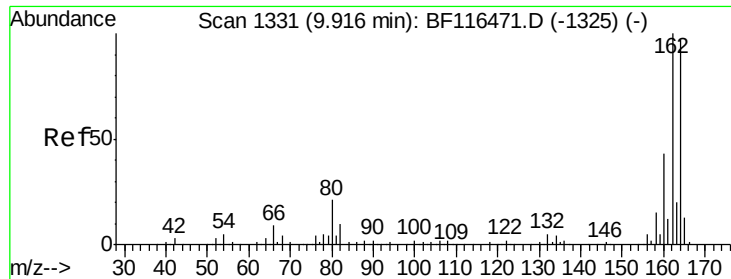
#25
Isophorone
Concen: 38.507 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.27 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion	82	Resp	460142
Ion Ratio	100	Lower	Upper
95	0.0	5.6	8.4#
138	0.0	14.4	21.6#



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

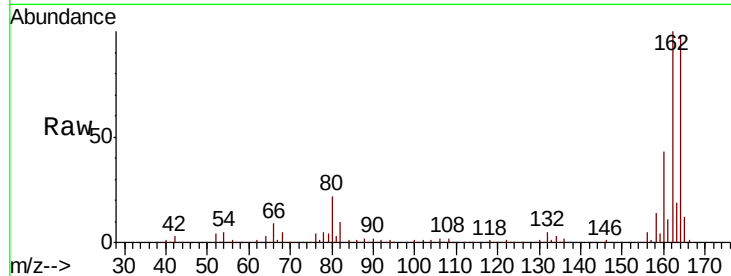




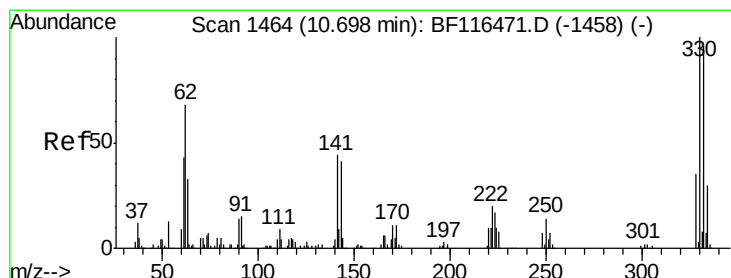
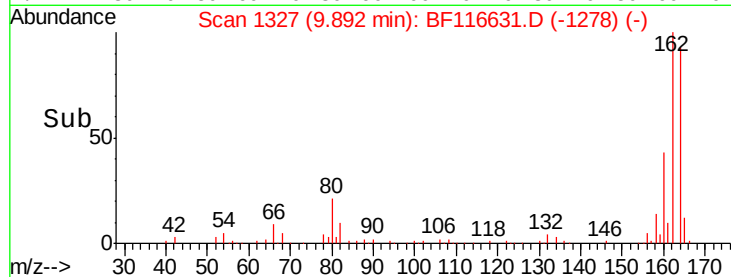
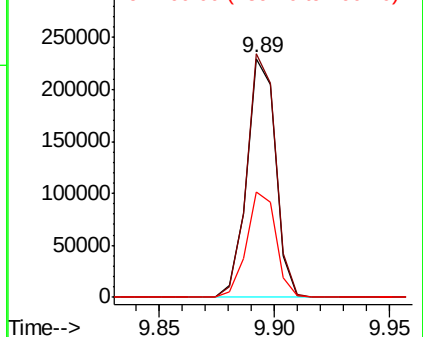
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 201036
Ion Ratio Lower Upper
164 100
162 101.9 83.4 125.0
160 44.2 37.0 55.4

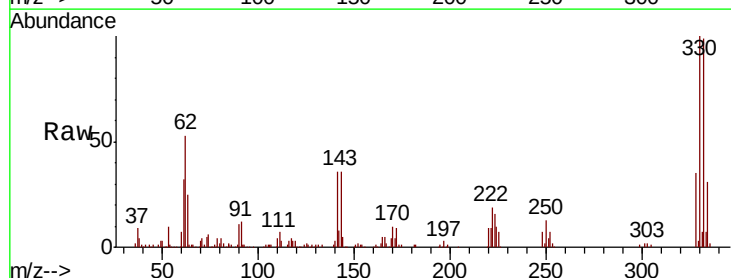


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

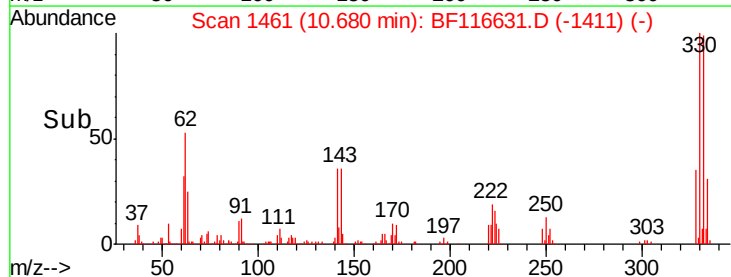
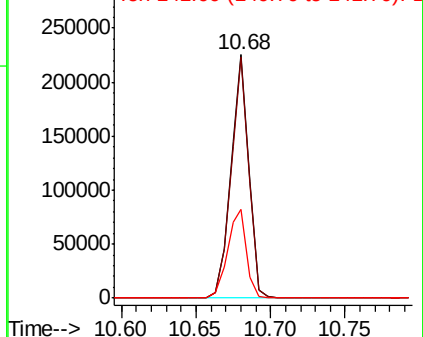


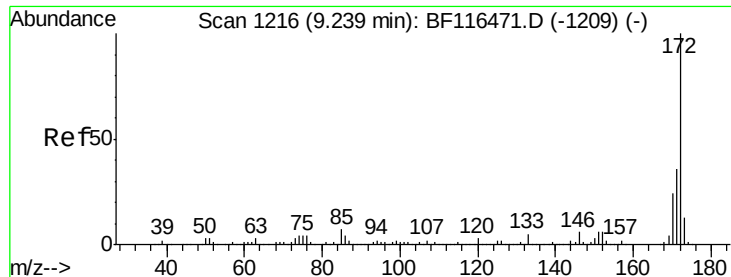
#42
2,4,6-Tribromophenol
Concen: 100.164 ng
RT: 10.68 min Scan# 1461
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion:330 Resp: 191622
Ion Ratio Lower Upper
330 100
332 98.2 77.5 116.3
141 38.6 28.2 42.2



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

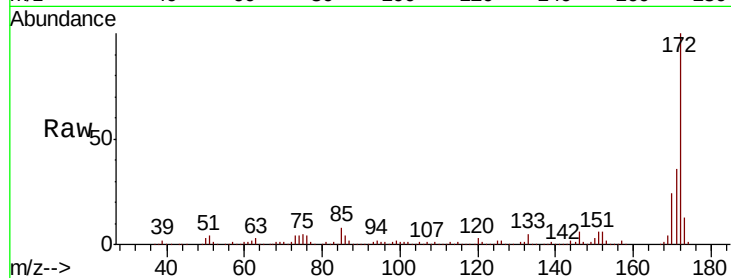




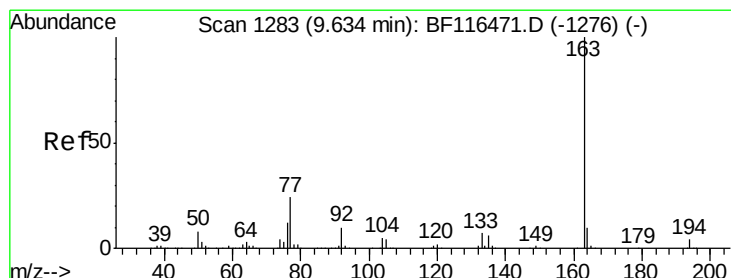
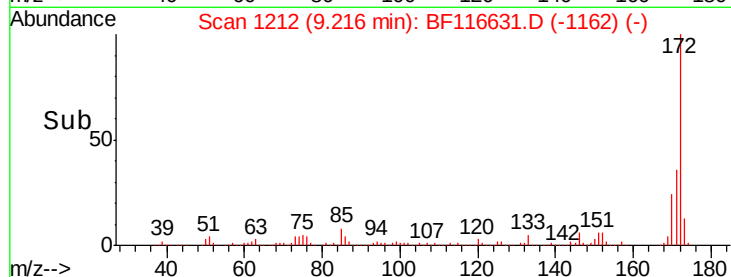
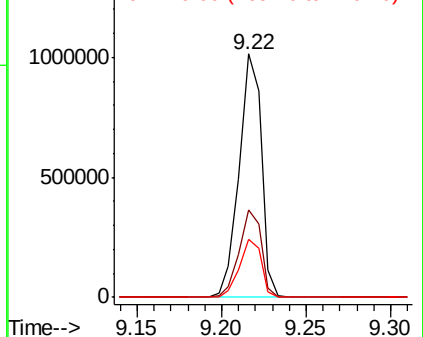
#45
2-Fluorobiphenyl
Concen: 77.279 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.6
170	23.9	19.3	28.9

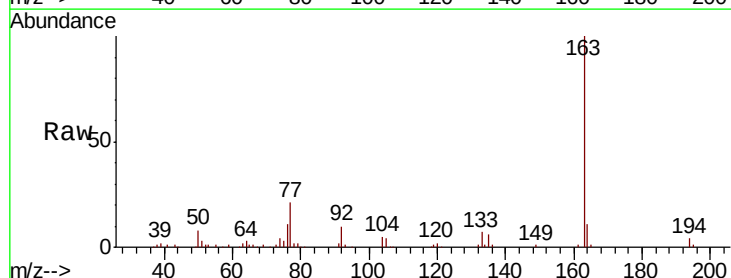


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

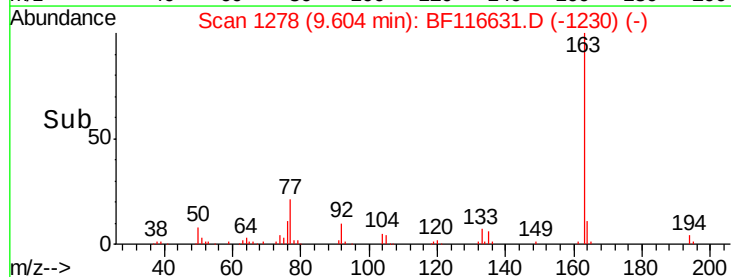
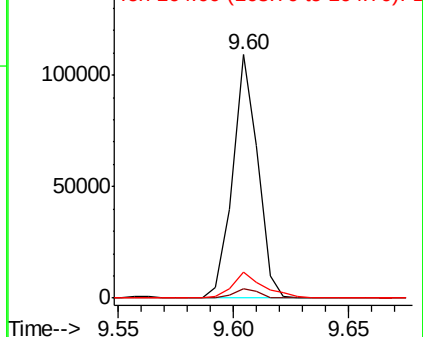


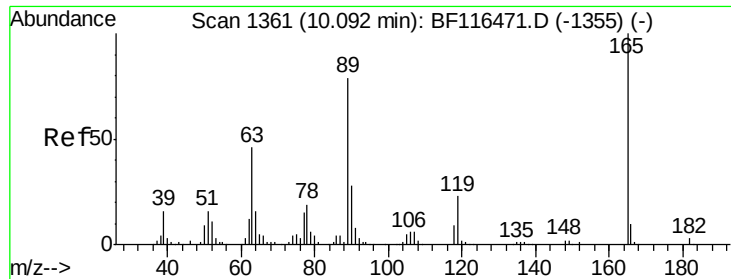
#50
Dimethylphthalate
Concen: 6.090 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.02 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.6
164	10.5	8.2	12.2



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





#57

2,4-Dinitrotoluene

Concen: 6.537 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.19 min

Lab File: BF116631.D

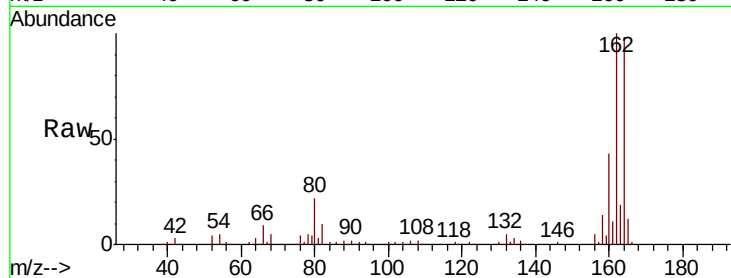
Acq: 28 Aug 2019 22:46

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165	Resp:	25705
Ion Ratio	Lower	Upper
165	100	
63	0.0	30.9 46.3#
89	1.9	55.0 82.6#
182	0.0	2.2 3.2#

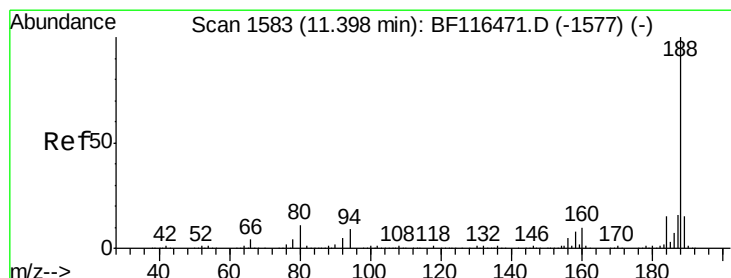
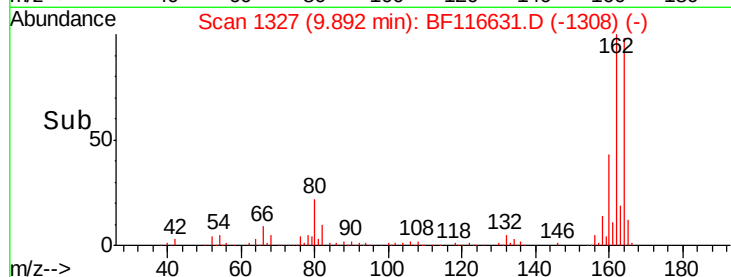
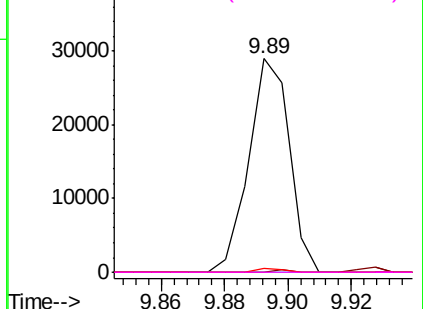


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

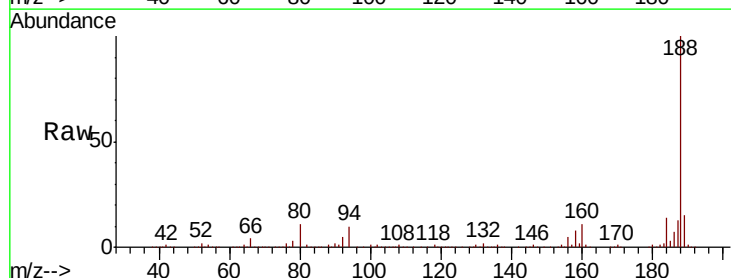
RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

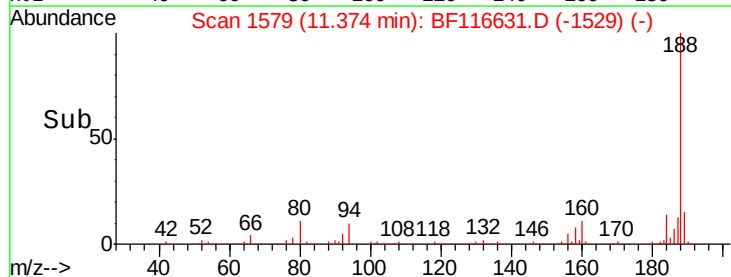
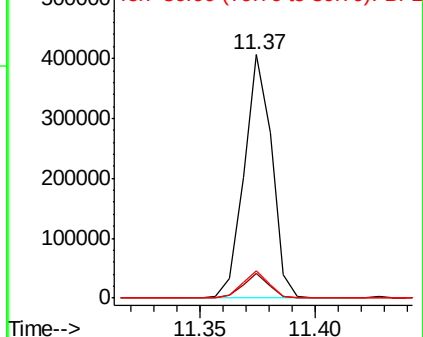
Tgt Ion:188	Resp:	339572
Ion Ratio	Lower	Upper
188	100	
94	9.9	8.2 12.4
80	11.0	8.9 13.3

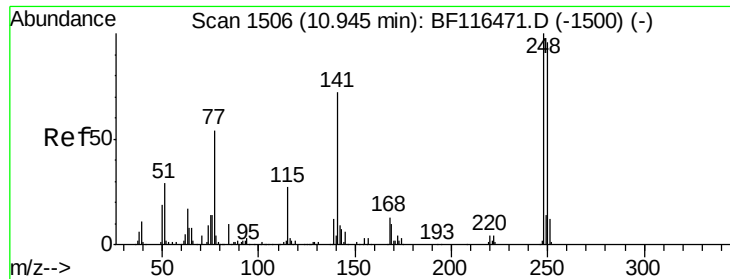


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

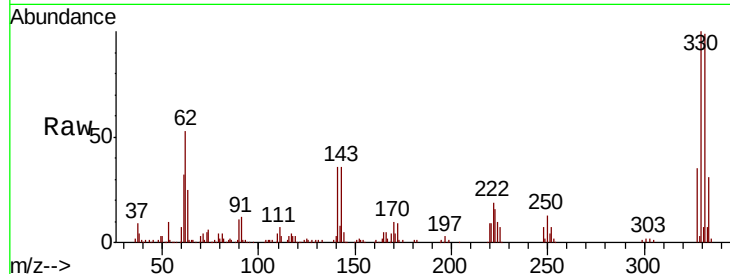




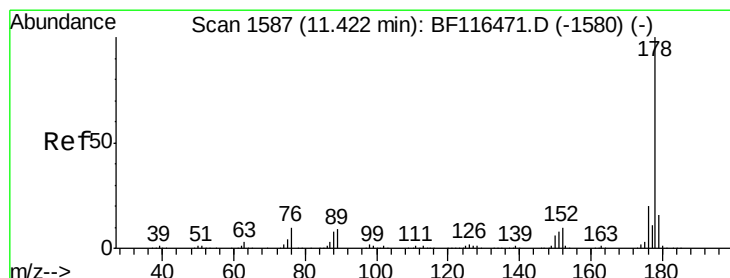
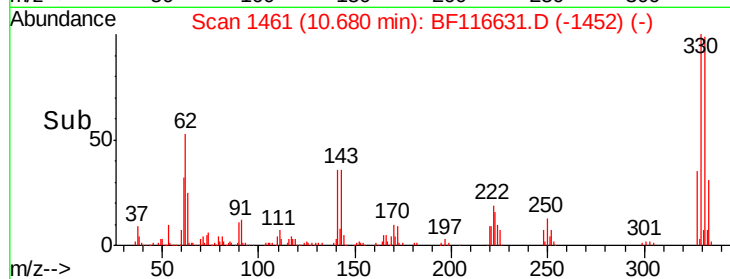
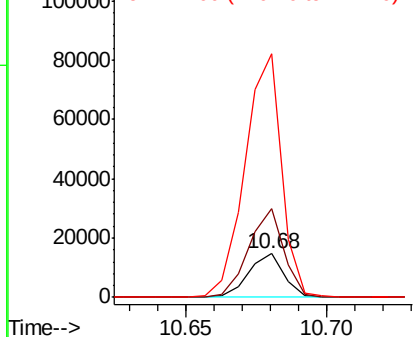
#67
 4-Bromophenyl-phenylether
 Concen: 3.530 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.25 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 12714
 Ion Ratio Lower Upper
 248 100
 250 202.1 76.6 115.0#
 141 555.7 60.8 91.2#

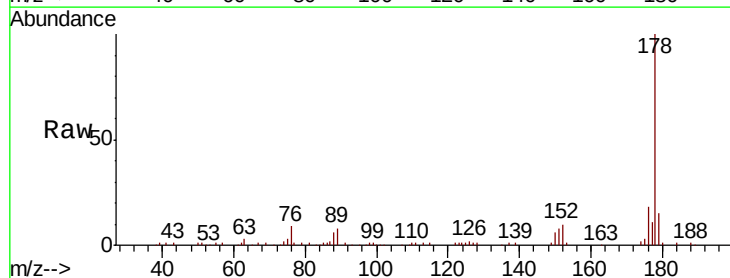


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

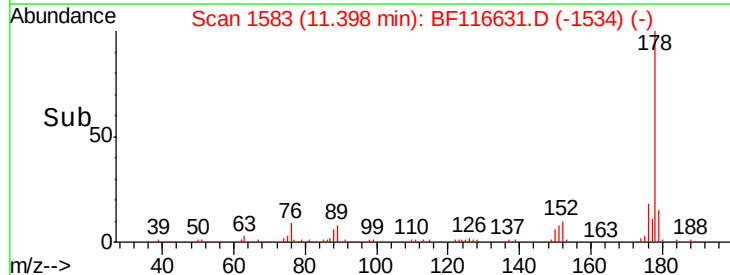
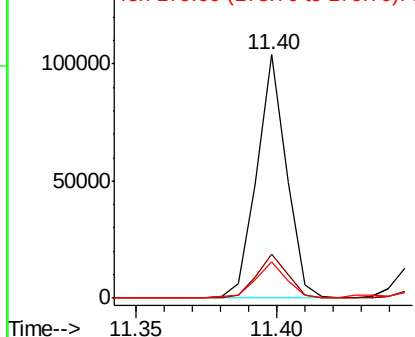


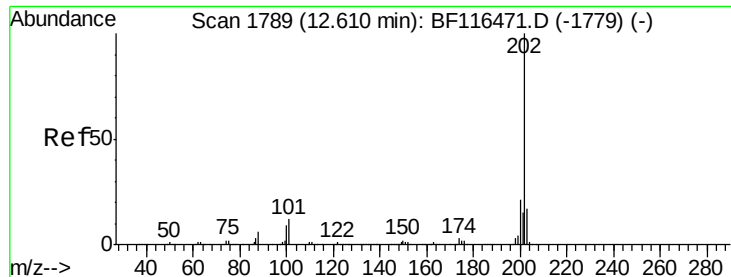
#71
 Phenanthrene
 Concen: 4.165 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Tgt Ion:178 Resp: 75974
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.5 23.3
 179 15.0 12.4 18.6



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: 9.615 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.01 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

Instrument :

BNA_F

ClientSampleId :

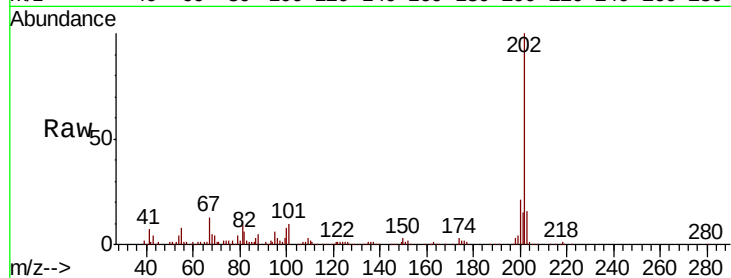
Tot Ion:202 Resp: 157279

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.8

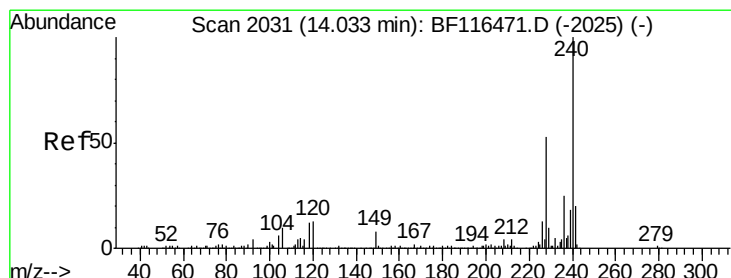
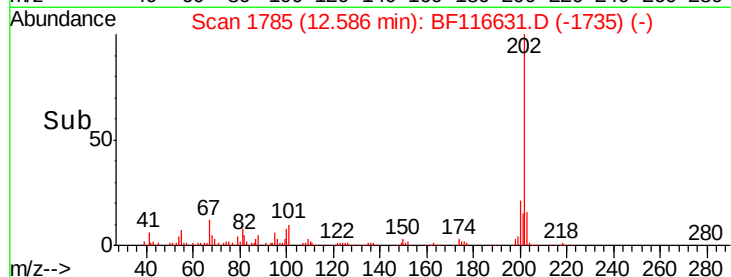
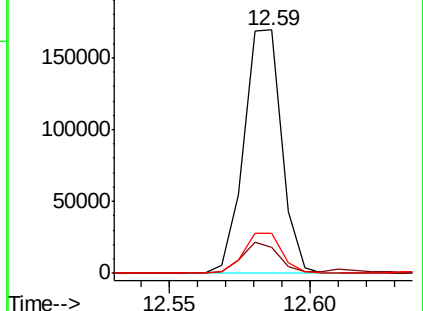
203 16.3 0.0 37.1



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: BF116631.D

Acq: 28 Aug 2019 22:46

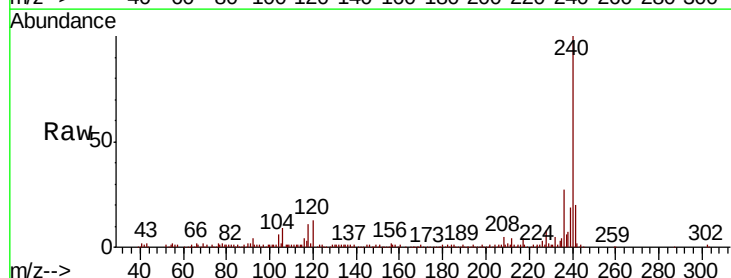
Tgt Ion:240 Resp: 106340

Ion Ratio Lower Upper

240 100

120 12.8 11.3 16.9

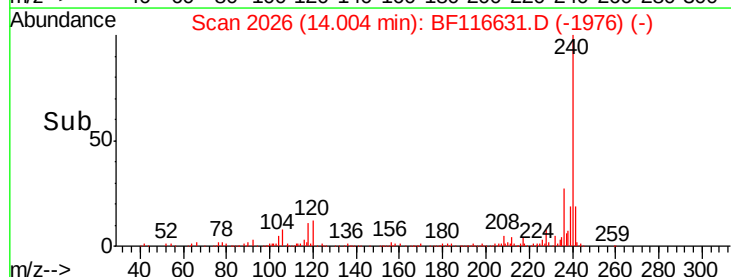
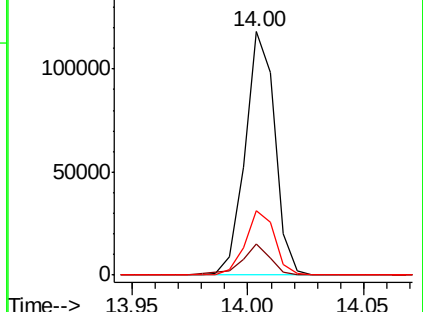
236 26.6 21.4 32.2

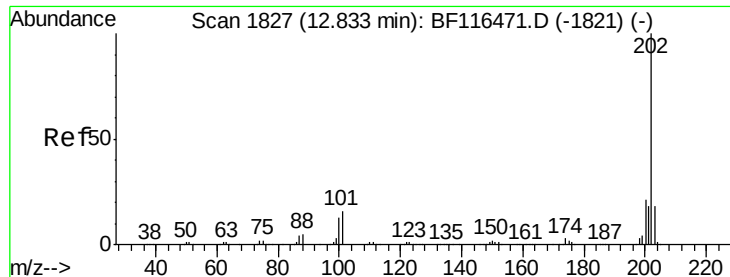


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

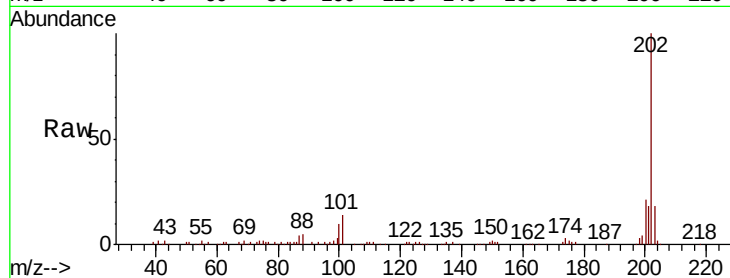




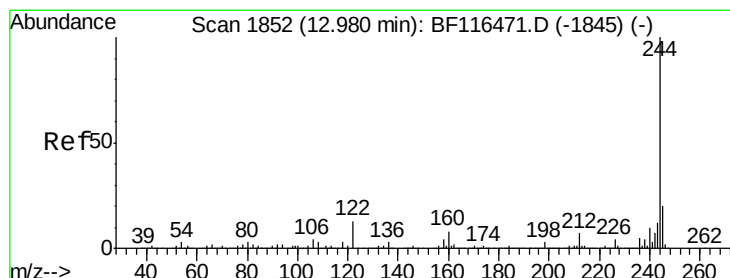
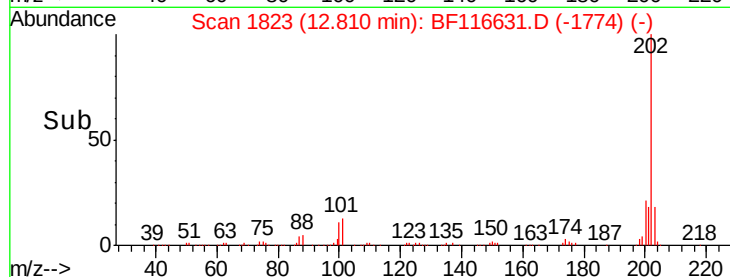
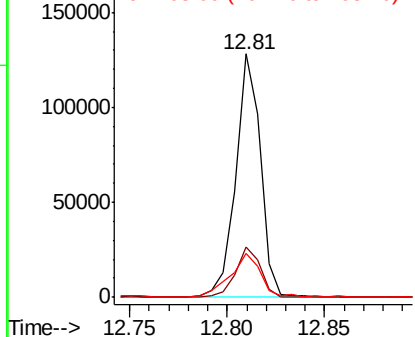
#78
Pvrene
Concen: 11.519 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 112634
Ion Ratio Lower Upper
202 100
200 20.8 17.4 26.0
203 18.3 14.2 21.4

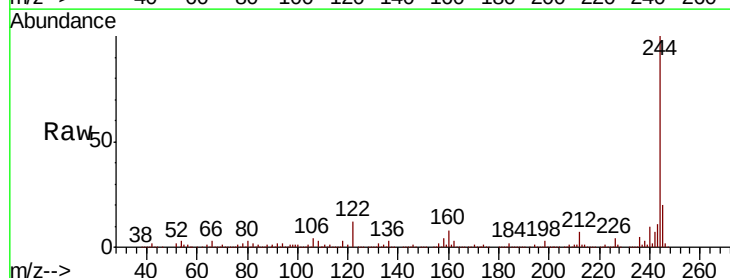


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

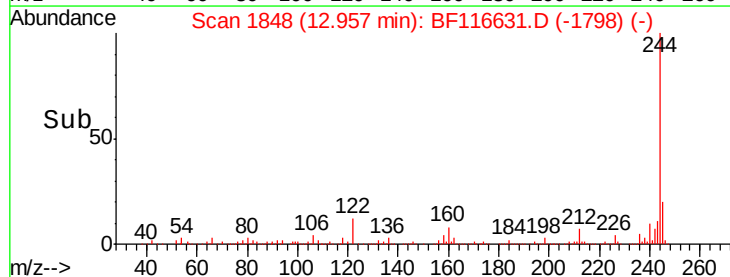
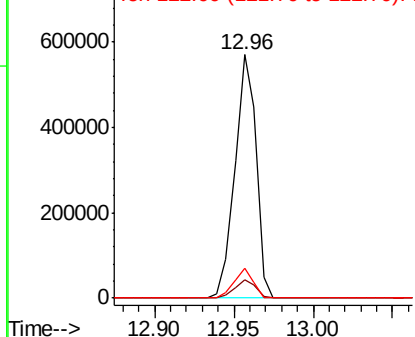


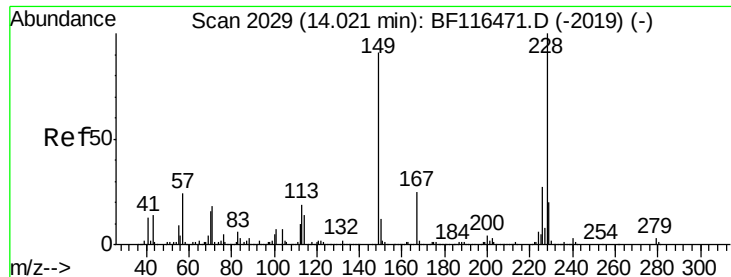
#79
Terphenyl-d14
Concen: 80.684 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion:244 Resp: 527559
Ion Ratio Lower Upper
244 100
212 7.5 5.9 8.9
122 12.3 10.0 15.0



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

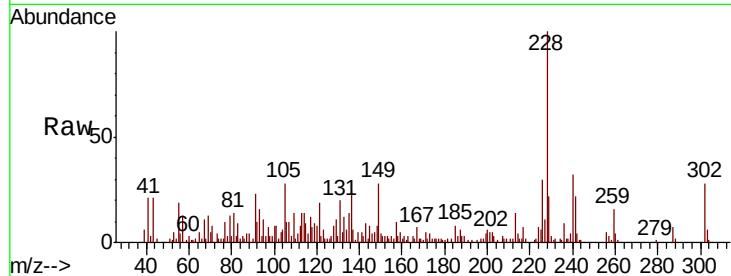




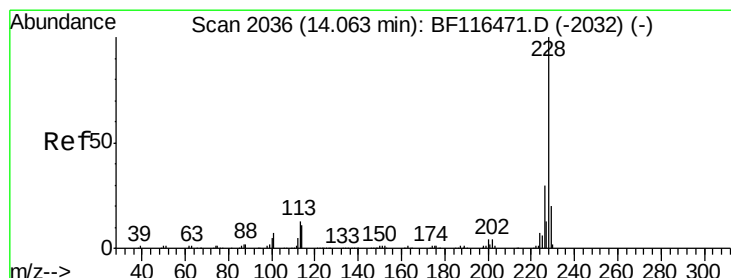
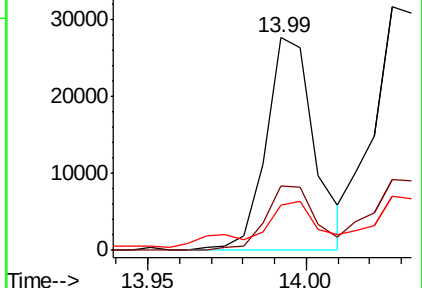
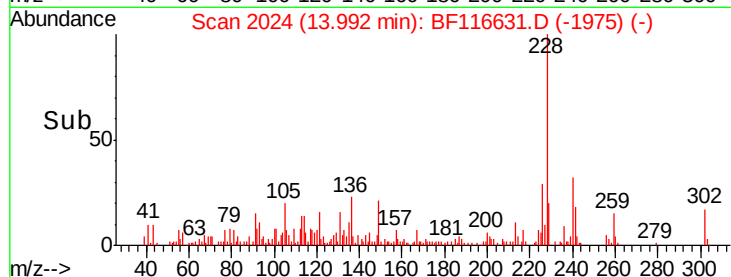
#81
Benzo(a)anthracene
Concen: 4.159 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 29483
Ion Ratio Lower Upper
228 100
226 30.1 21.5 32.3
229 21.5 15.4 23.0

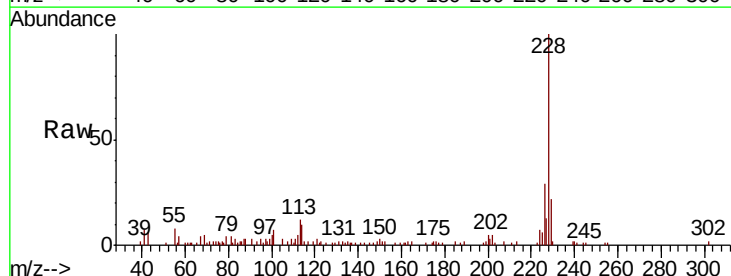


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

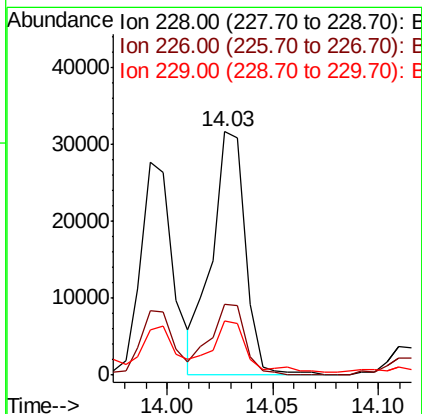
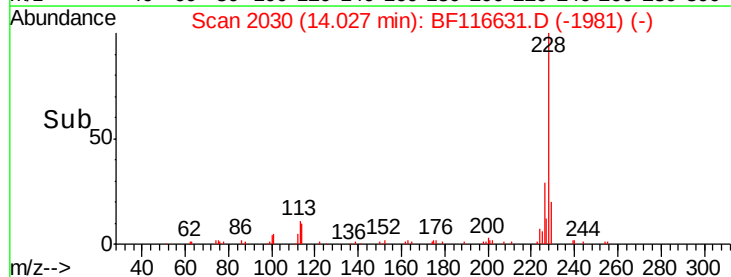


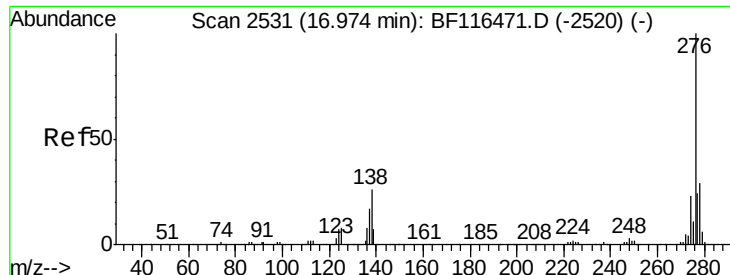
#83
Chrysene
Concen: 5.047 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion:228 Resp: 35030
Ion Ratio Lower Upper
228 100
226 29.2 24.0 36.0
229 22.4 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

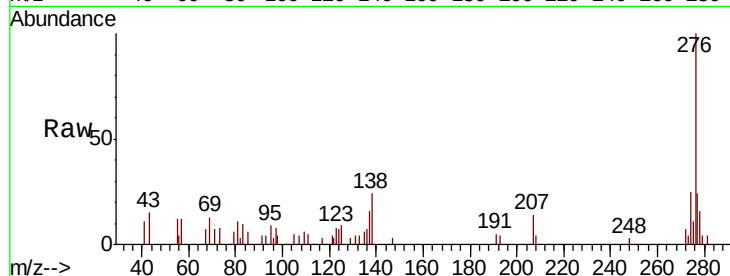




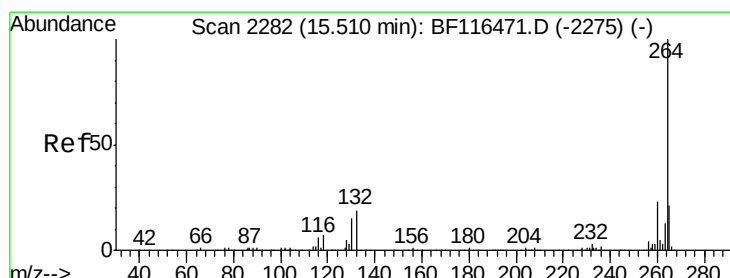
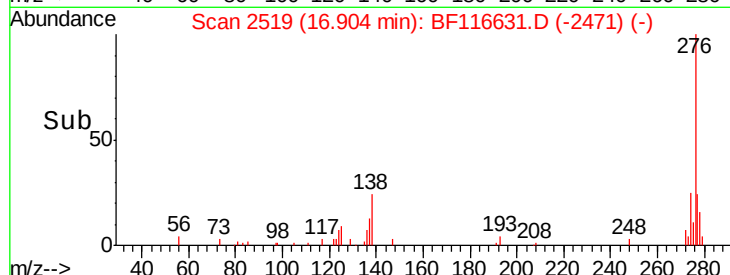
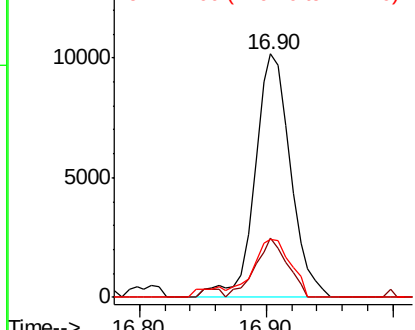
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.300 ng
 RT: 16.90 min Scan# 2519
 Delta R.T. -0.02 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	21.5	32.3
277	25.0	20.0	30.0

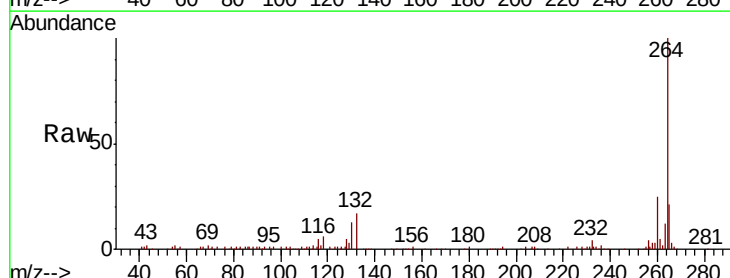


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

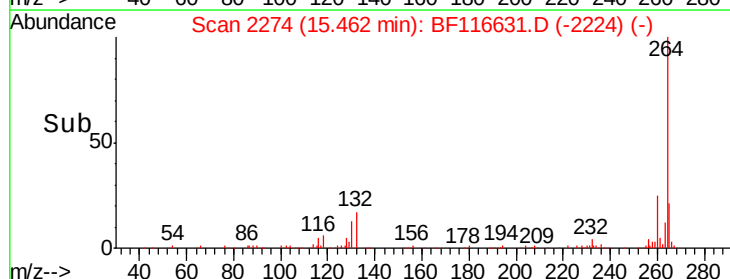
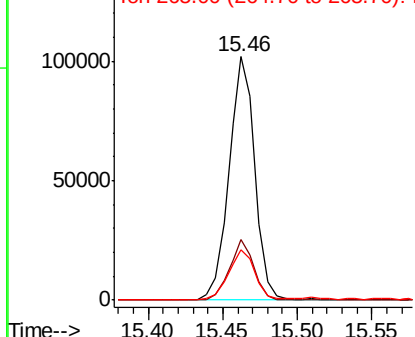


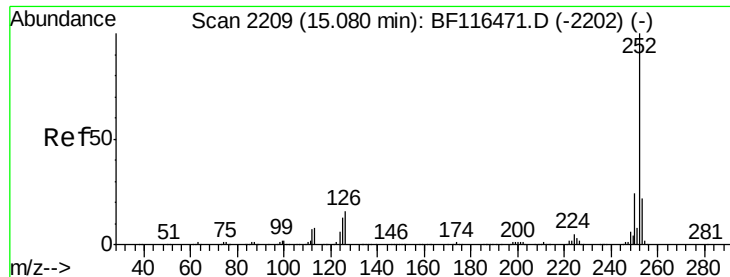
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. -0.01 min
 Lab File: BF116631.D
 Acq: 28 Aug 2019 22:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.0	30.0
265	20.8	17.6	26.4



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

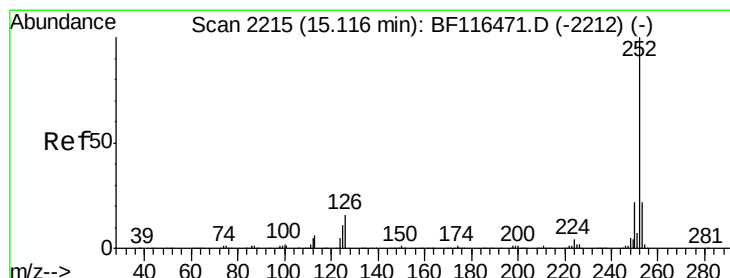
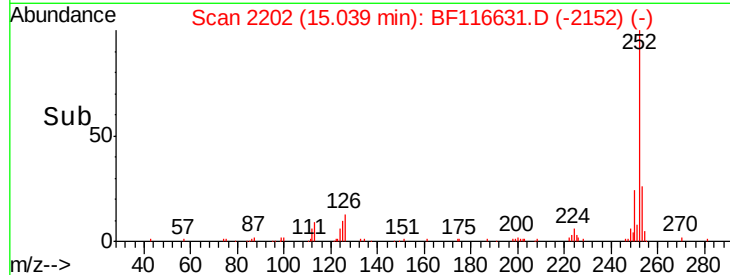
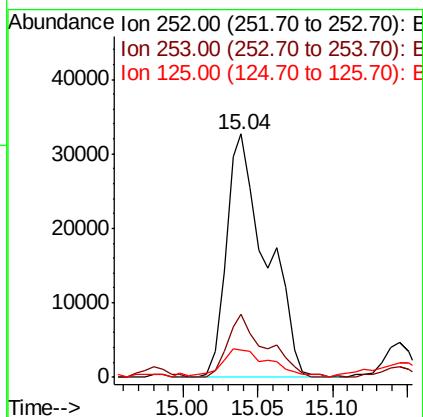
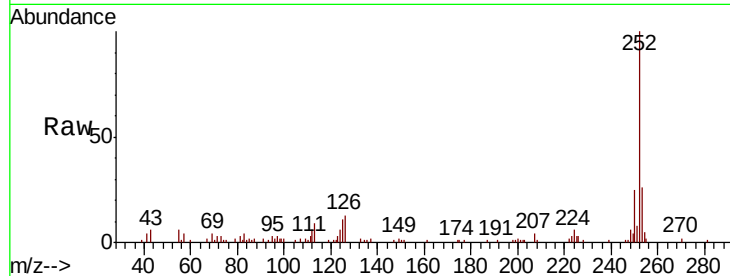




#88
Benzo(b)fluoranthene
Concen: 8.039 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

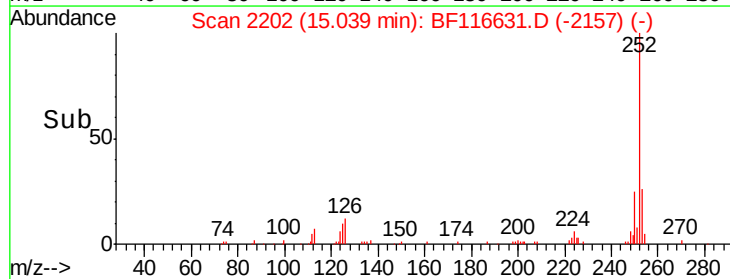
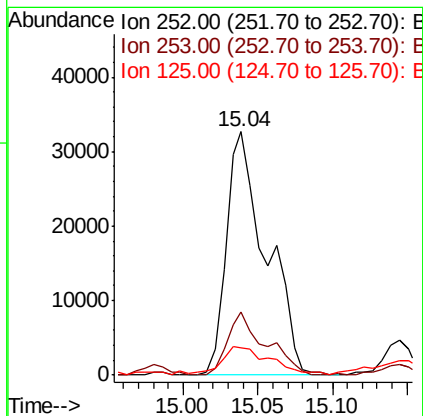
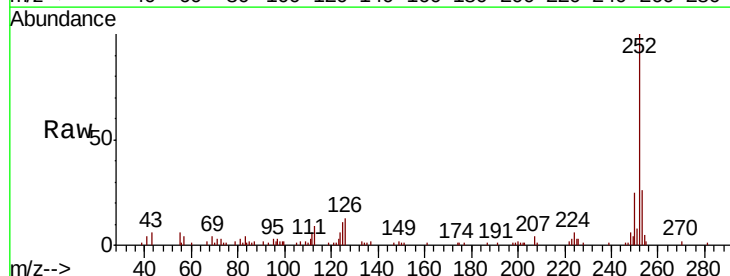
Instrument :
BNA_F
ClientSampleId :

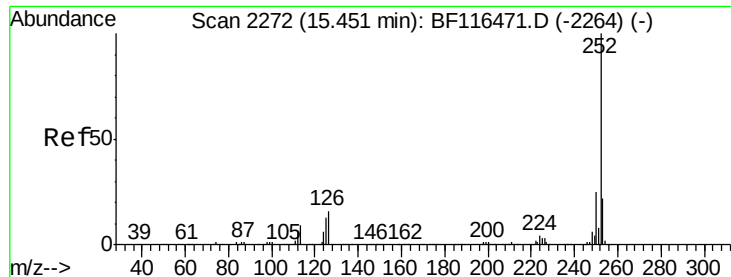
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.3	25.9
125	11.2	9.0	13.6



#89
Benzo(k)fluoranthene
Concen: 8.457 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF116631.D
Acq: 28 Aug 2019 22:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.2	25.8
125	11.2	8.6	13.0





#90

Benzo(a)pyrene

Concen: 4.225 ng

RT: 15.40 min Scan# 2263

Delta R.T. -0.01 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

Instrument :

BNA_F

ClientSampleId :

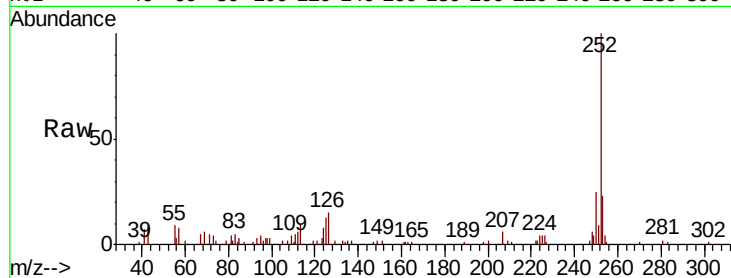
Tot Ion:252 Resp: 28452

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

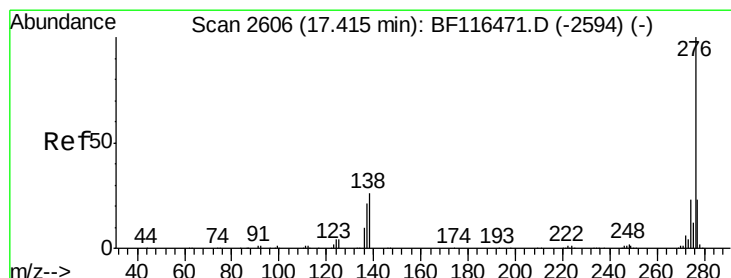
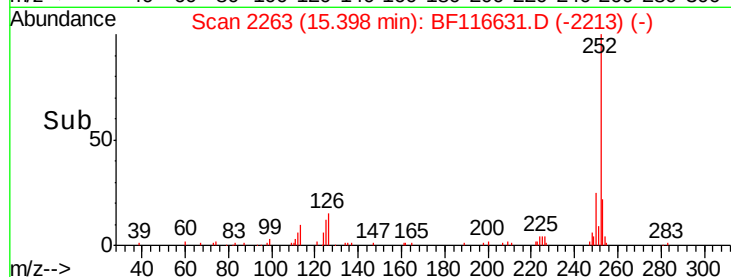
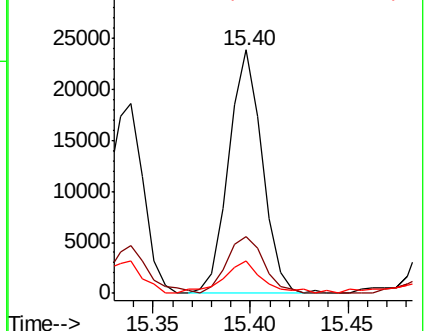
125 13.3 10.6 16.0



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



#92

Benzo(g,h,i)perylene

Concen: 2.524 ng

RT: 17.34 min Scan# 2593

Delta R.T. -0.02 min

Lab File: BF116631.D

Acq: 28 Aug 2019 22:46

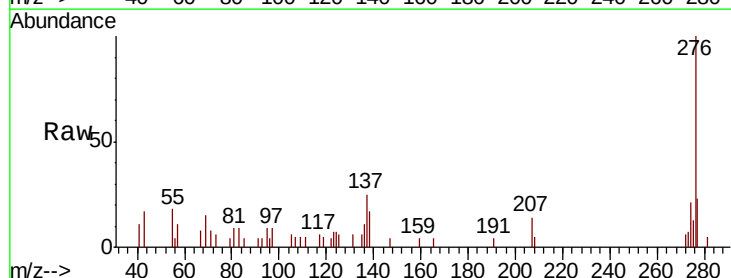
Tgt Ion:276 Resp: 16494

Ion Ratio Lower Upper

276 100

277 23.0 19.0 28.4

138 17.4 18.2 27.2#



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

