

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
 Data File : BF117572.D
 Acq On : 28 Oct 2019 20:05
 Operator : JU
 Sample : K5502-17DL2 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 29 14:07:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	37332	20.00	ng	-0.01
21) Naphthalene-d8	8.01	136	168913	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	83610	20.00	ng	-0.01
64) Phenanthrene-d10	11.25	188	116432	20.00	ng	0.00
76) Chrysene-d12	13.89	240	75060	20.00	ng	-0.01
87) Perylene-d12	15.32	264	82274	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.37	112	15577	6.21	ng	0.02
7) Phenol-d6	6.40	99	26453	7.85	ng	0.02
23) Nitrobenzene-d5	7.31	82	17079	4.99	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	4400	6.08	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	33187	5.59	ng	-0.01
79) Terphenyl-d14	12.82	244	22075	4.80	ng	-0.01

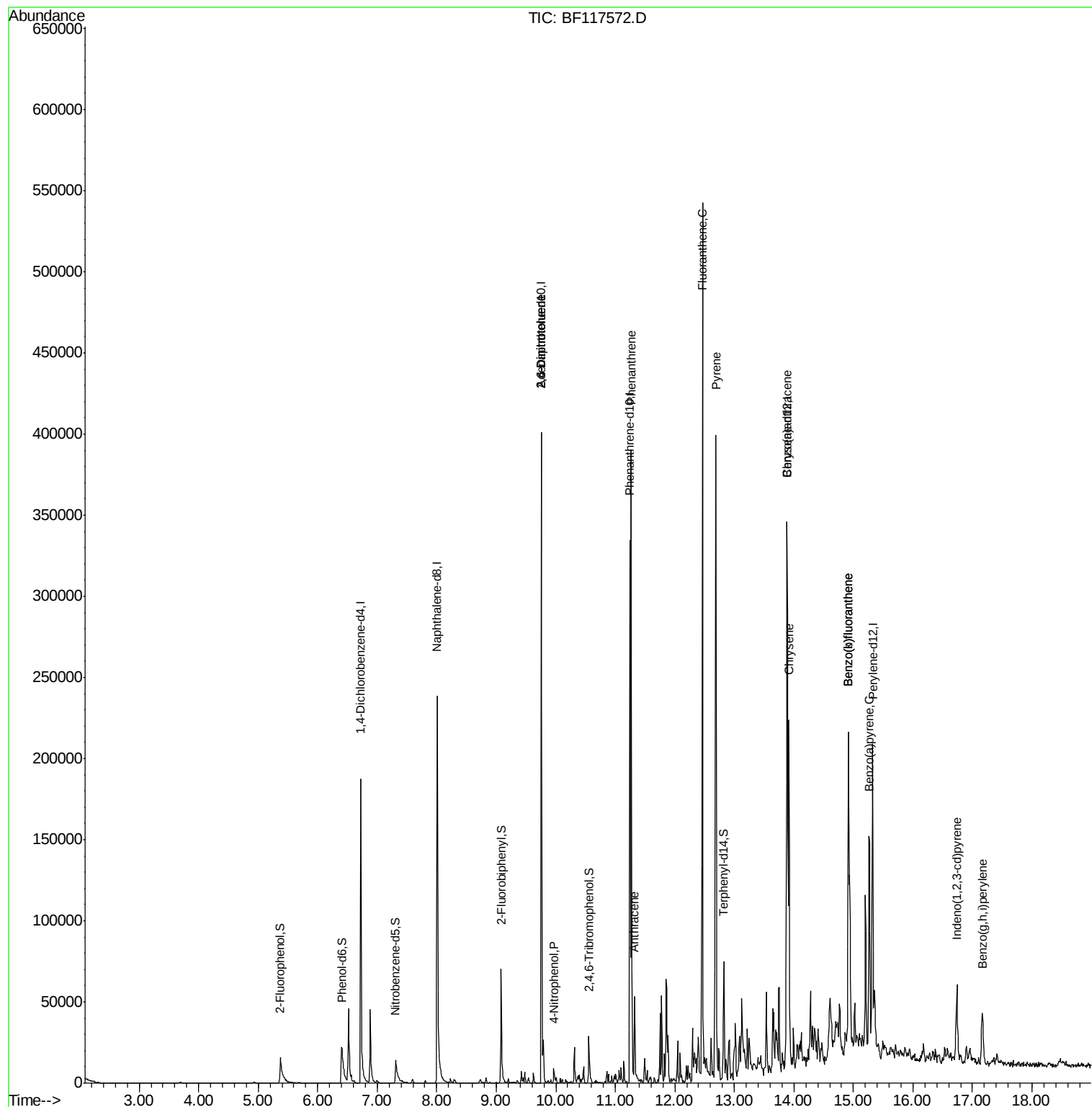
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.52	77	227	Below Cal	#	3
51) 2,6-Dinitrotoluene	9.76	165	10624	8.542	ng	# 22
56) 4-Nitrophenol	9.97	139	2183	7.110	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	10624	6.424	ng	# 12
71) Phenanthrene	11.27	178	147919	21.879	ng	98
72) Anthracene	11.32	178	28837	4.157	ng	96
75) Fluoranthene	12.46	202	209102	30.895	ng	98
77) Benzydine	12.83	184	118	Below Cal	#	67
78) Pyrene	12.69	202	172677	26.783	ng	99
81) Benzo(a)anthracene	13.88	228	83229	16.438	ng	99
83) Chrysene	13.92	228	72886	14.688	ng	98
86) Indeno(1,2,3-cd)pyrene	16.74	276	32610	8.802	ng	94
88) Benzo(b)fluoranthene	14.92	252	124759	25.679	ng	99
89) Benzo(k)fluoranthene	14.92	252	124759	25.054	ng	97
90) Benzo(a)pyrene	15.26	252	62706	14.196	ng	# 96
92) Benzo(g,h,i)perylene	17.16	276	25166	6.964	ng	96

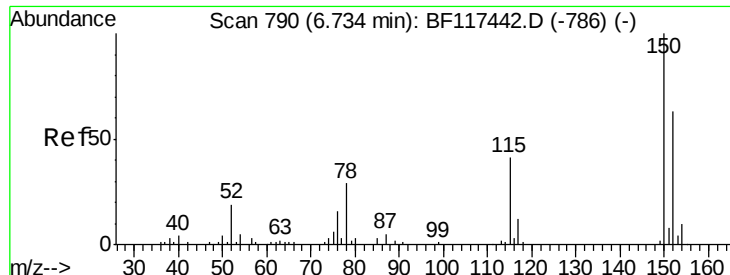
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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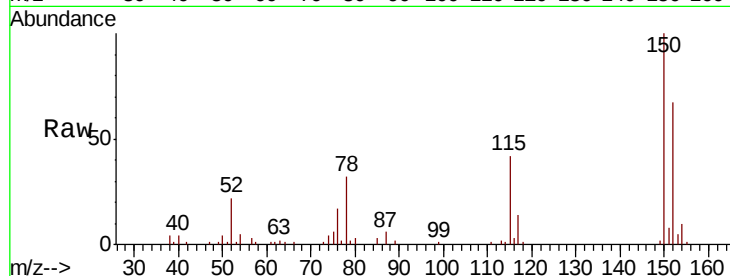


#1

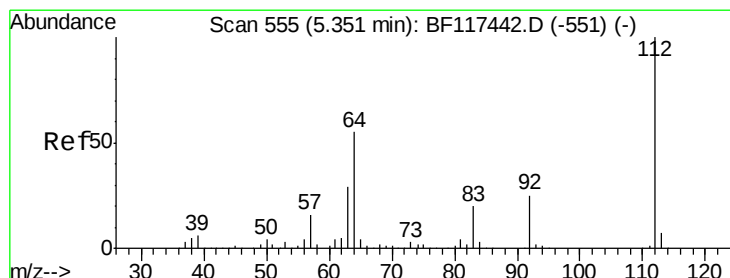
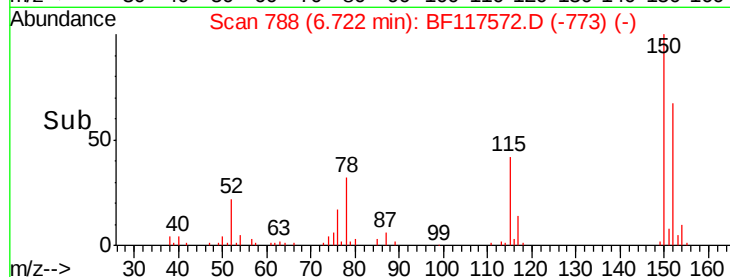
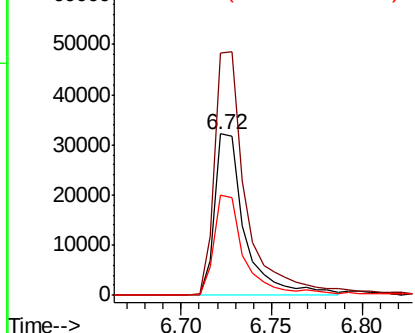
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 37332
Ion Ratio Lower Upper
152 100
150 149.7 126.8 190.2
115 62.2 51.6 77.4



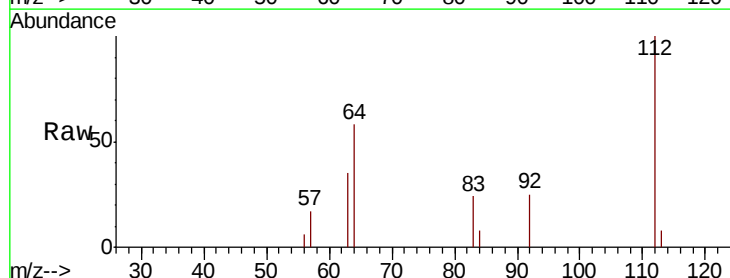
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



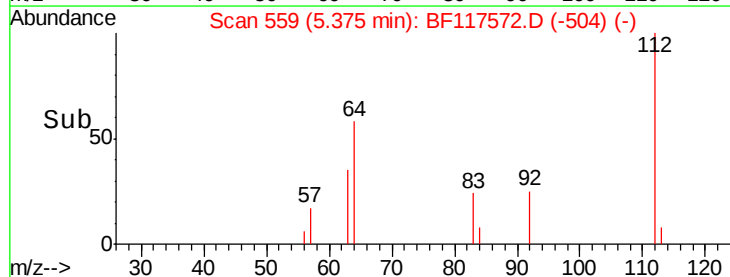
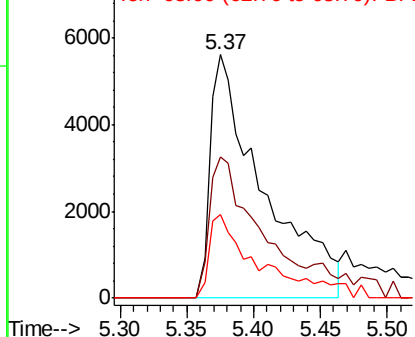
#5

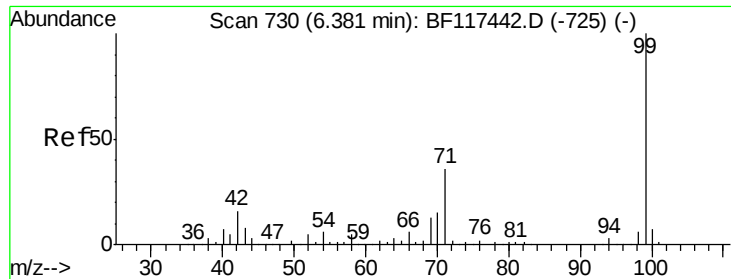
2-Fluorophenol
Concen: 6.208 ng
RT: 5.37 min Scan# 559
Delta R.T. 0.02 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Tgt Ion:112 Resp: 15577
Ion Ratio Lower Upper
112 100
64 58.0 44.1 66.1
63 34.5 23.4 35.2



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: 7.849 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.02 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Instrument :

BNA_E

ClientSampleId :

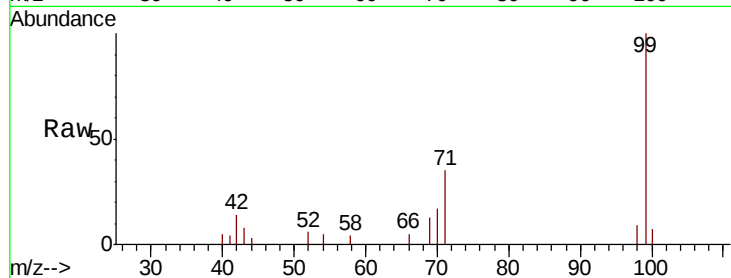
Tot Ion: 99 Resp: 26453

Ion Ratio Lower Upper

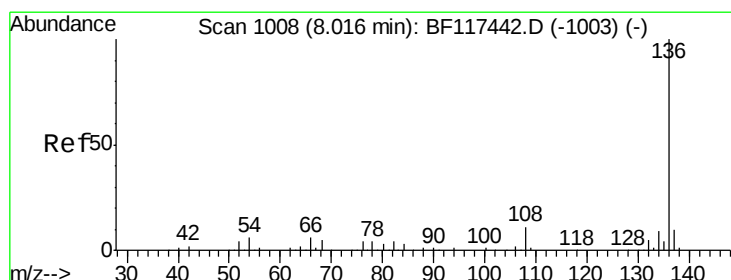
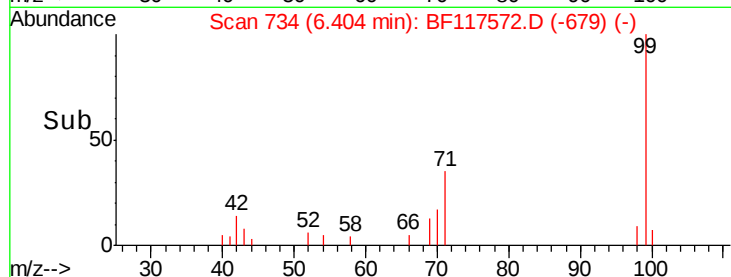
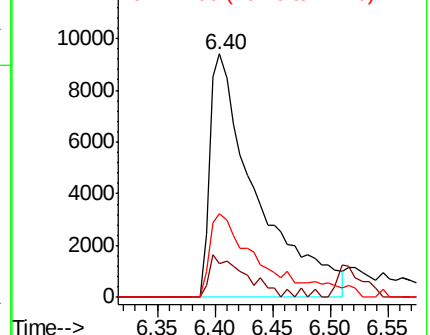
99 100

42 13.9 12.8 19.2

71 34.6 28.6 43.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Tgt Ion: 136 Resp: 168913

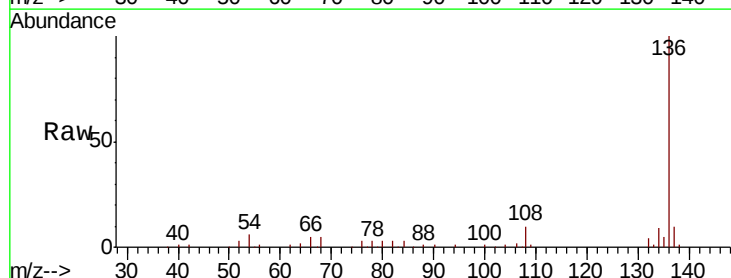
Ion Ratio Lower Upper

136 100

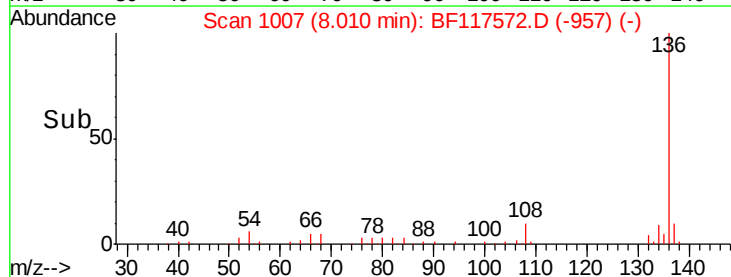
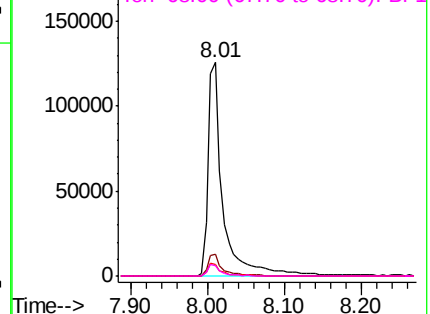
137 10.3 8.2 12.4

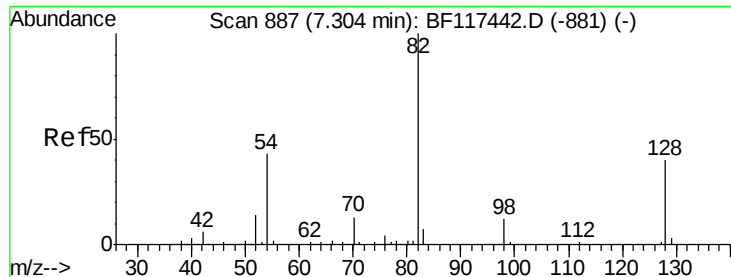
54 5.6 4.5 6.7

68 4.8 4.3 6.5



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

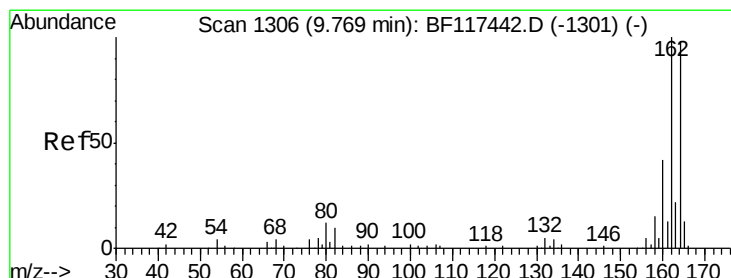
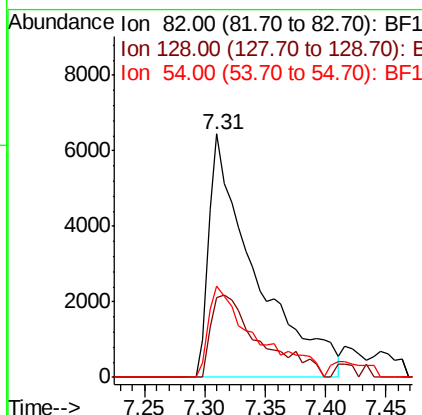
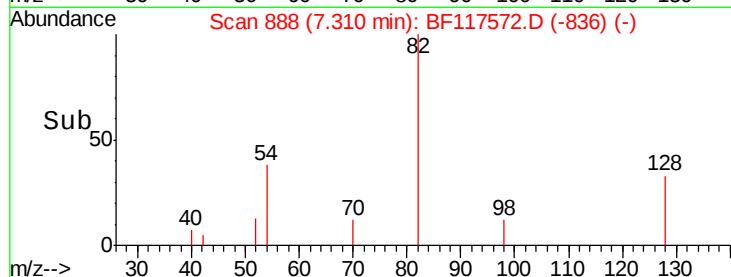
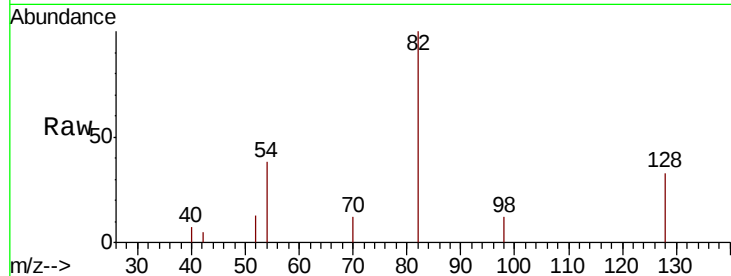




#23
 Nitrobenzene-d5
 Concen: 4.992 ng
 RT: 7.31 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

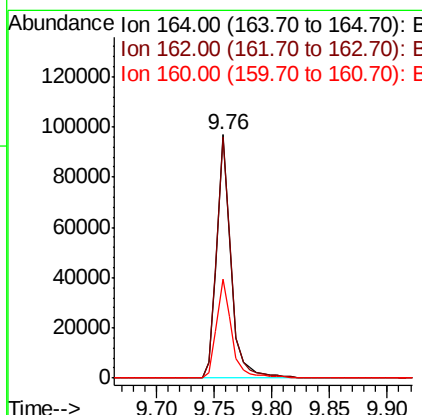
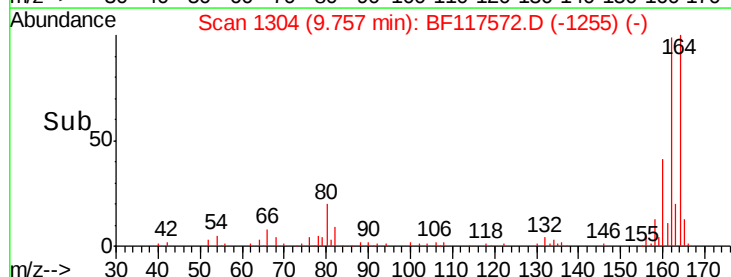
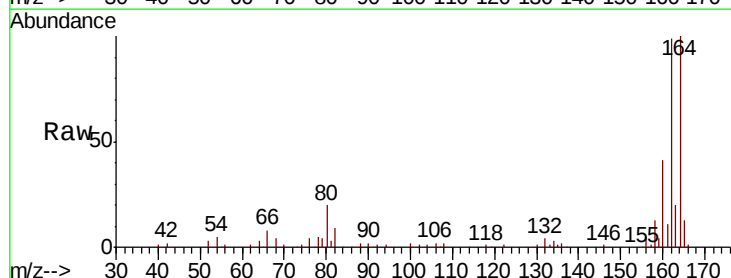
Instrument :
 BNA_E
 ClientSampleId :

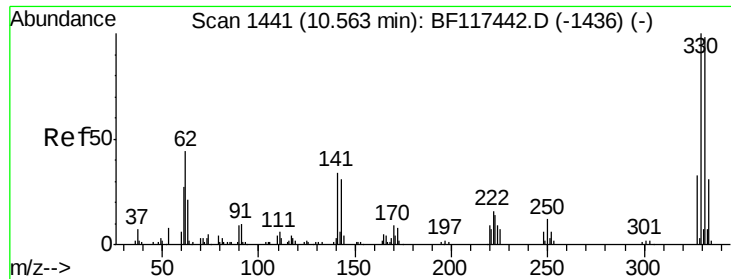
Tot Ion: 82 Resp: 17079
 Ion Ratio Lower Upper
 82 100
 128 32.6 32.2 48.2
 54 37.6 34.2 51.2



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

Tgt Ion: 164 Resp: 83610
 Ion Ratio Lower Upper
 164 100
 162 98.8 81.8 122.6
 160 40.8 34.4 51.6





#42

2,4,6-Tribromophenol

Concen: 6.082 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Instrument :

BNA_E

ClientSampleId :

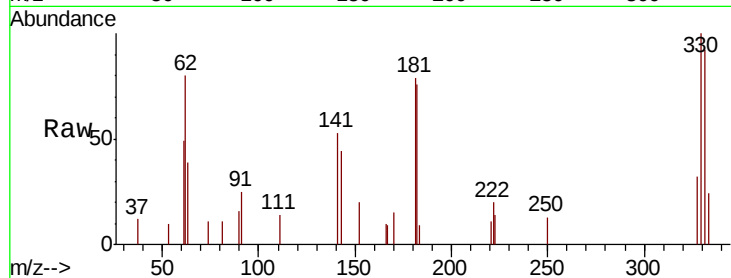
Tot Ion:330 Resp: 4400

Ion Ratio Lower Upper

330 100

332 92.7 78.5 117.7

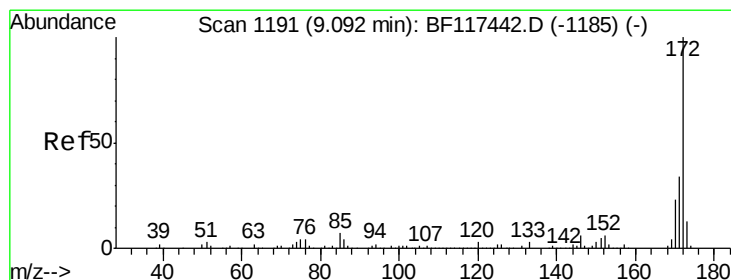
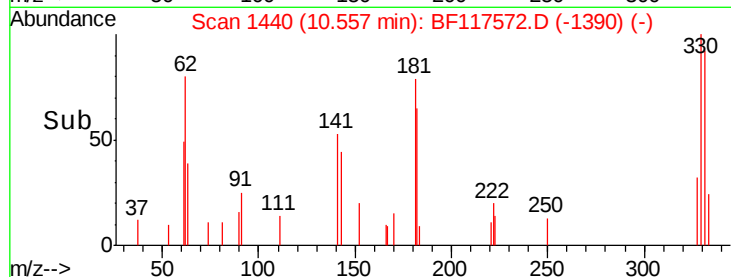
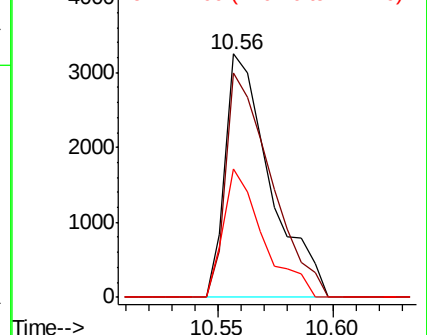
141 46.4 37.0 55.6



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: 5.593 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

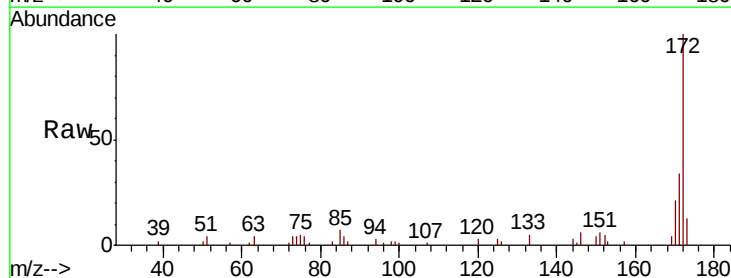
Tgt Ion:172 Resp: 33187

Ion Ratio Lower Upper

172 100

171 33.6 27.5 41.3

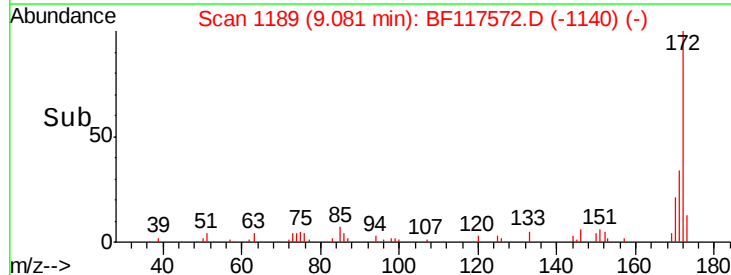
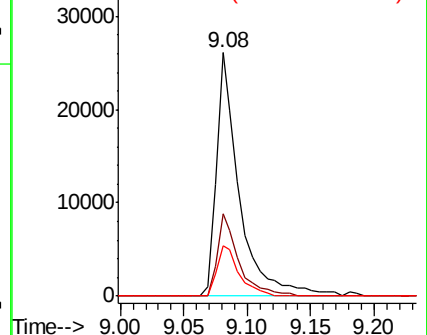
170 20.5 18.6 27.8

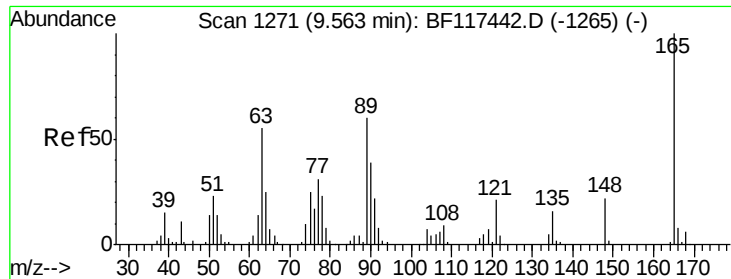


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

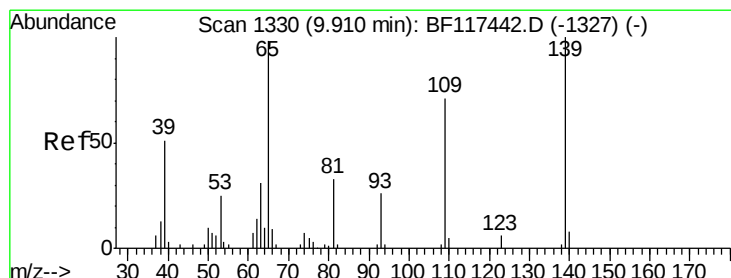
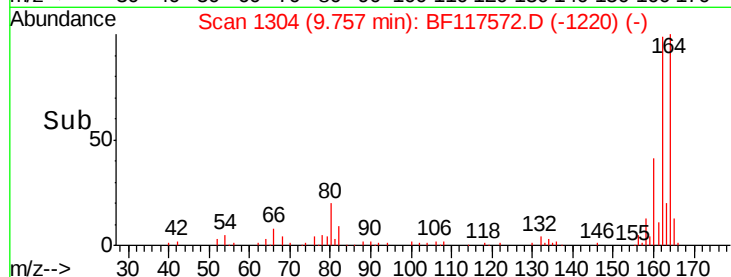
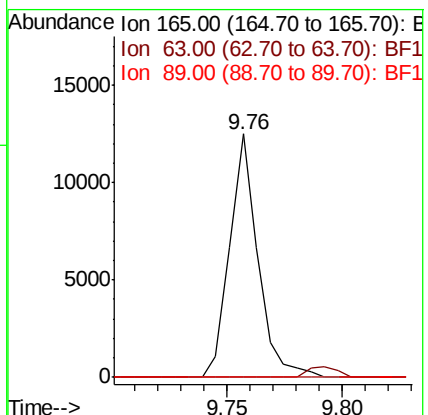
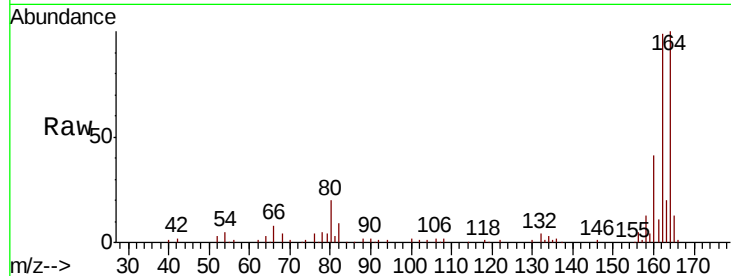




#51
 2,6-Dinitrotoluene
 Concen: 8.542 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.19 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

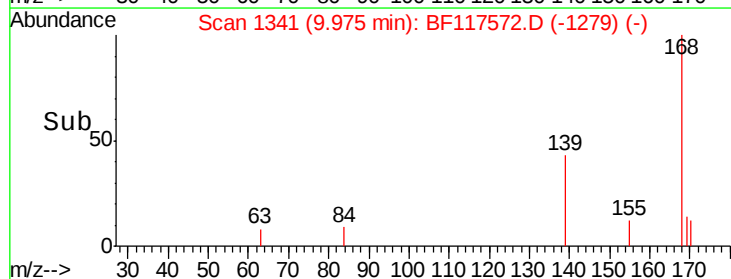
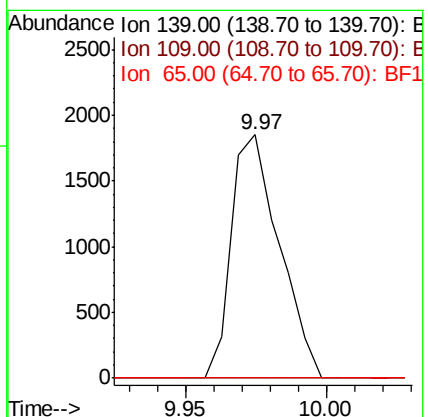
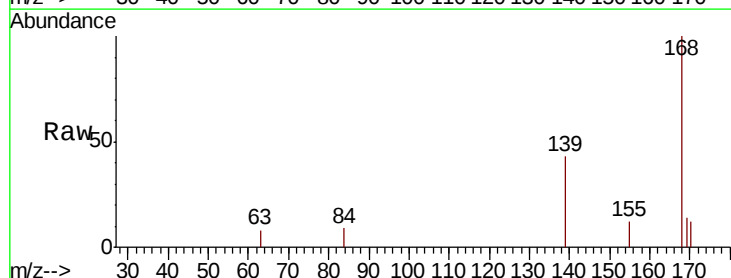
Instrument :
 BNA_E
 ClientSampleId :

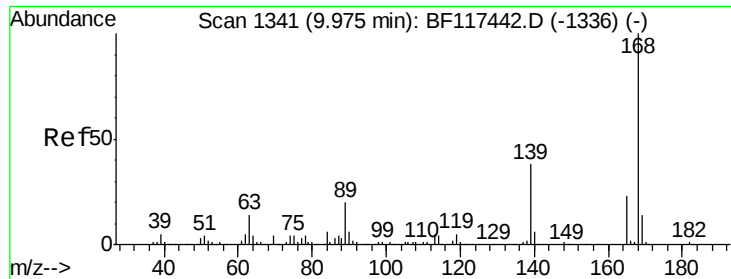
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	43.8	65.8#
89	0.0	47.6	71.4#



#56
 4-Nitrophenol
 Concen: 7.110 ng
 RT: 9.97 min Scan# 1341
 Delta R.T. 0.07 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	51.4	91.4#
65	0.0	79.4	119.4#





#57

2,4-Dinitrotoluene

Concen: 6.424 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.22 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Instrument :

BNA_E

ClientSampleId :

Tot Ion:165 Resp: 10624

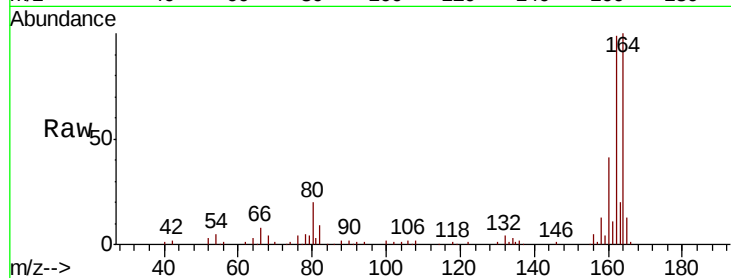
Ion Ratio Lower Upper

165 100

63 0.0 51.4 77.0#

89 0.0 69.9 104.9#

182 0.0 1.9 2.9#

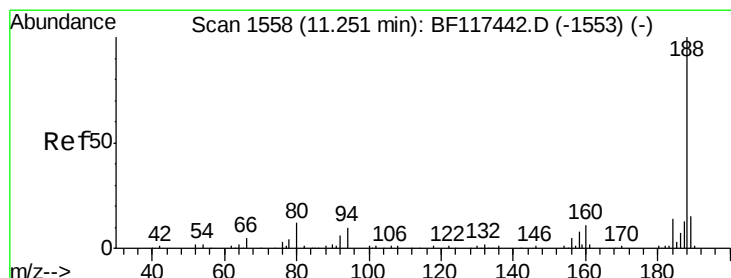
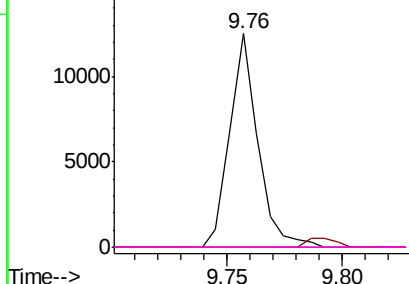
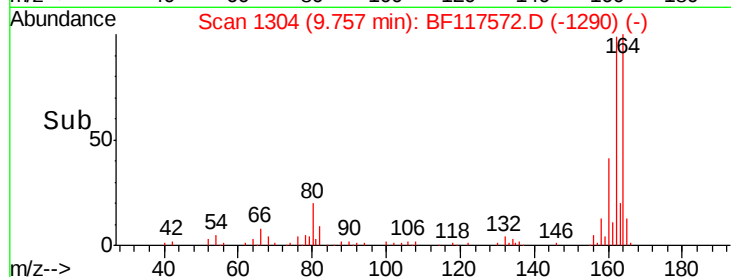


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.25 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

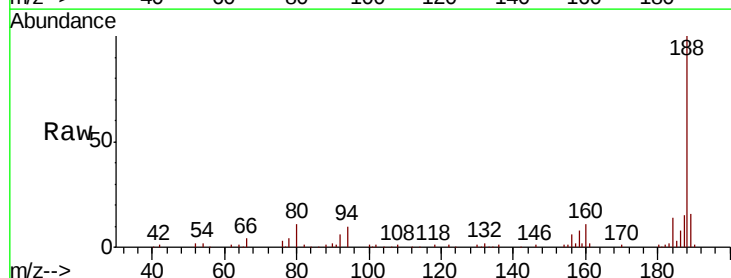
Tgt Ion:188 Resp: 116432

Ion Ratio Lower Upper

188 100

94 10.2 8.0 12.0

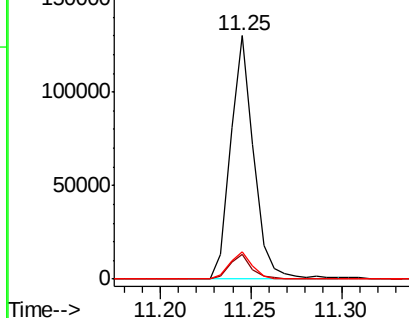
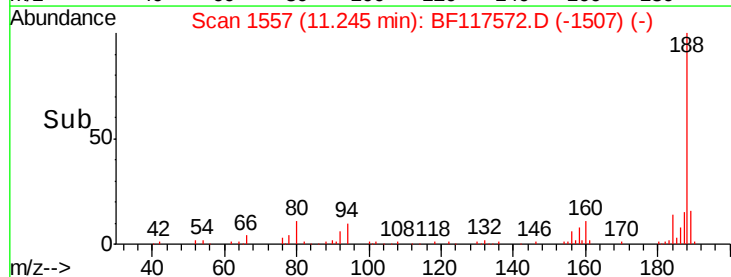
80 11.1 9.5 14.3

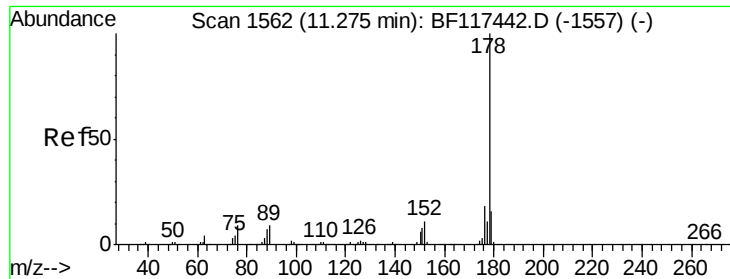


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

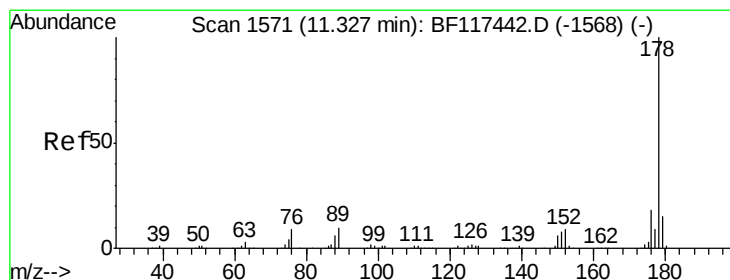
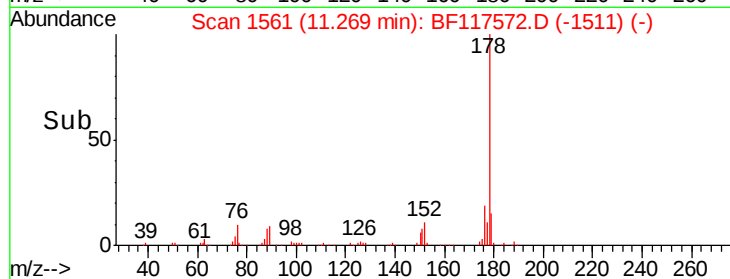
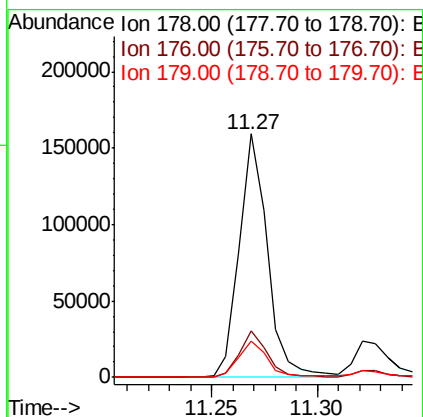
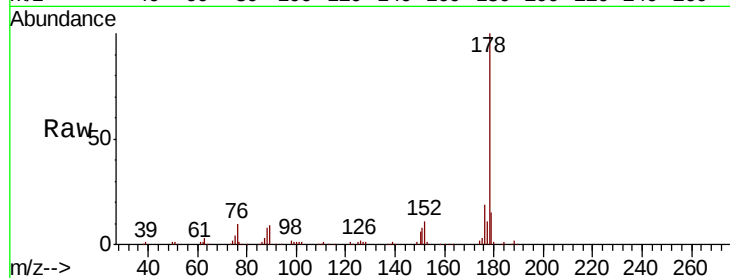




#71
Phenanthrene
Concen: 21.879 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

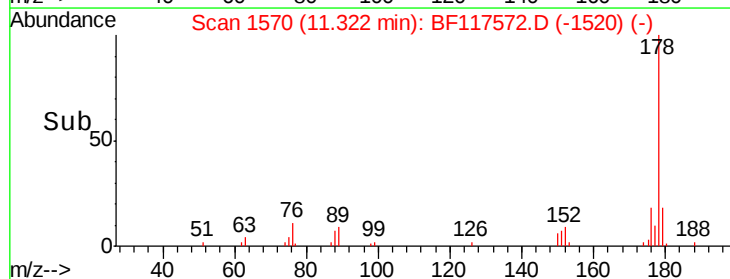
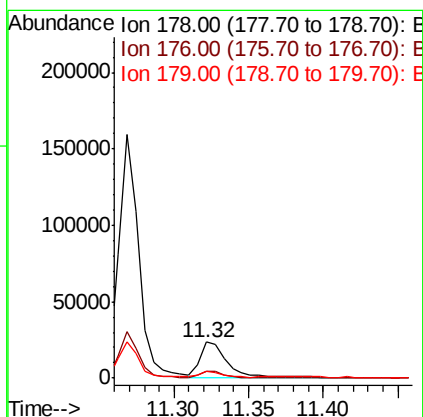
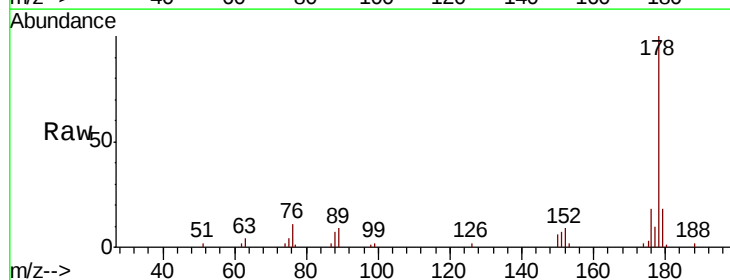
Instrument :
BNA_E
ClientSampleId :

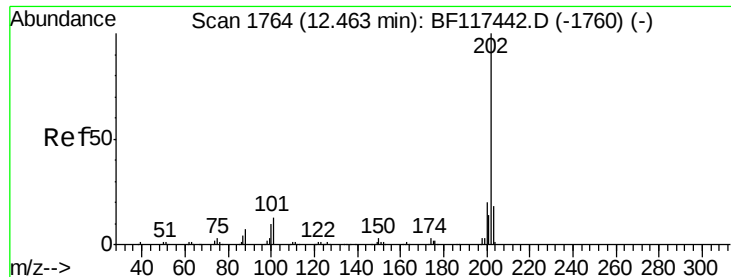
Tot Ion:178 Resp: 147919
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 14.7 12.6 19.0



#72
Anthracene
Concen: 4.157 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Tgt Ion:178 Resp: 28837
Ion Ratio Lower Upper
178 100
176 18.0 14.7 22.1
179 18.2 12.2 18.2





#75

Fluoranthene

Concen: 30.895 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.00 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Instrument :

BNA_E

ClientSampleId :

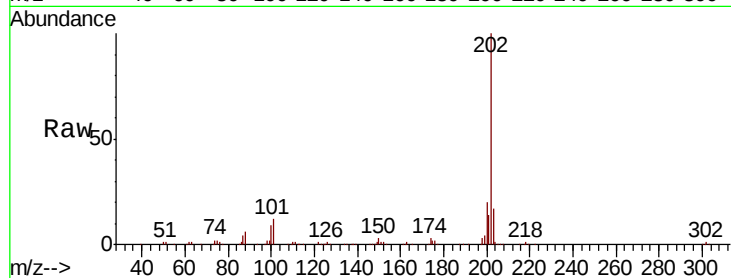
Tot Ion:202 Resp: 209102

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.7

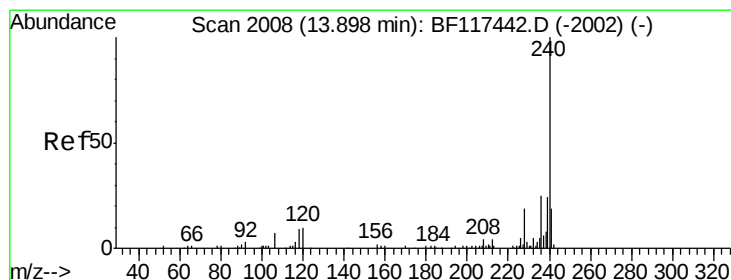
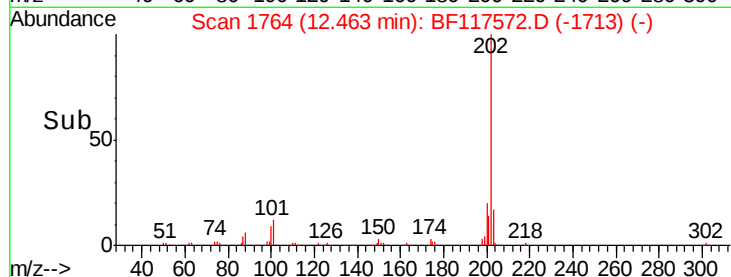
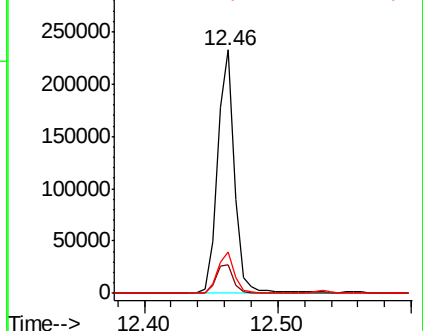
203 17.0 0.0 37.6



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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

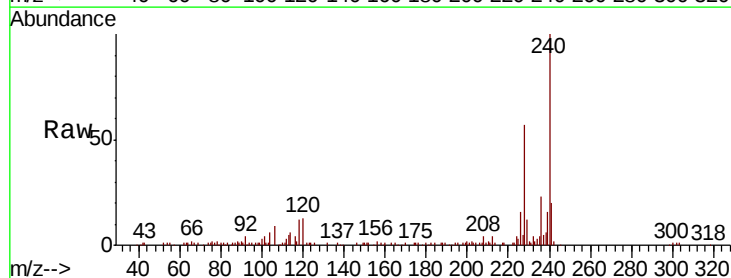
Tgt Ion:240 Resp: 75060

Ion Ratio Lower Upper

240 100

120 13.4 8.4 12.6#

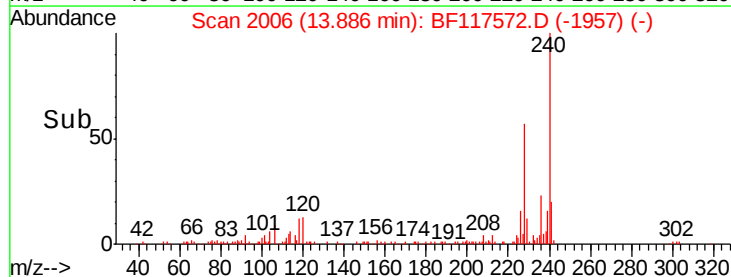
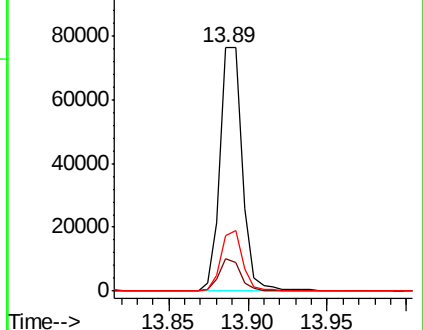
236 22.9 20.0 30.0

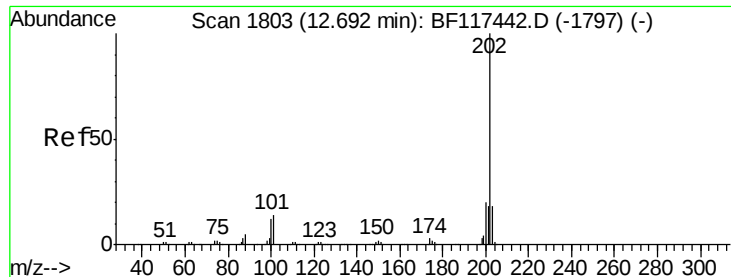


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 26.783 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.00 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

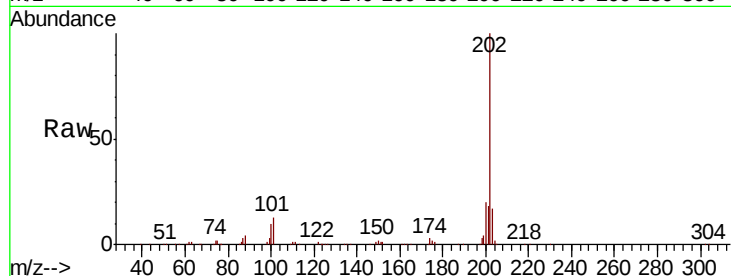
Instrument :

BNA_E

ClientSampleId :

Tot Ion:202 Resp: 172677

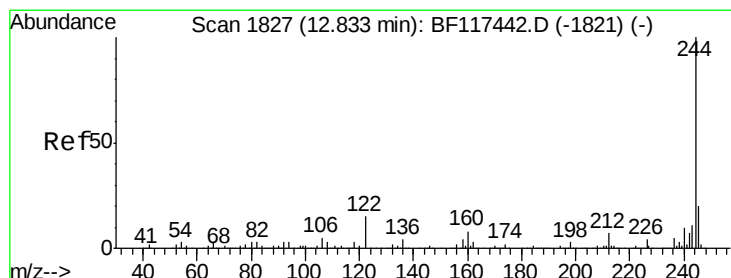
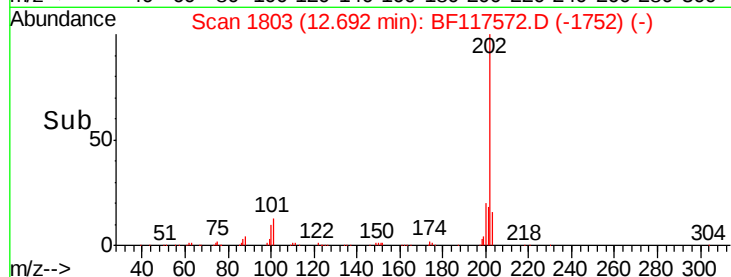
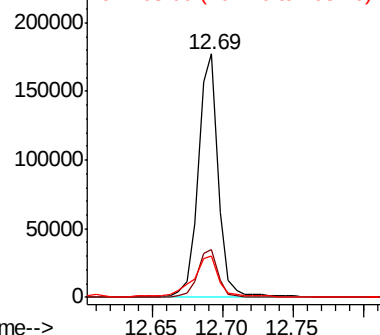
Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.2	24.2
203	16.8	14.0	21.0



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: 4.797 ng

RT: 12.82 min Scan# 1825

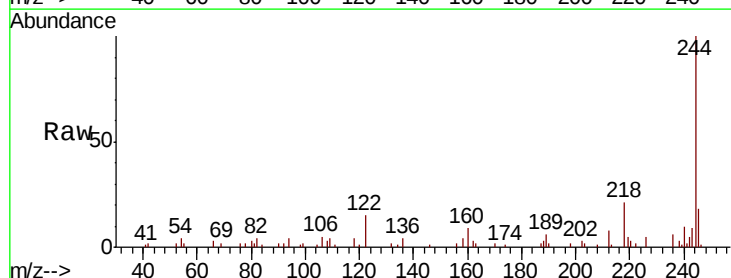
Delta R.T. -0.01 min

Lab File: BF117572.D

Acq: 28 Oct 2019 20:05

Tgt Ion:244 Resp: 22075

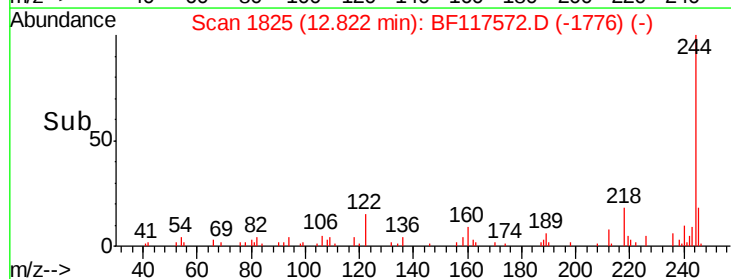
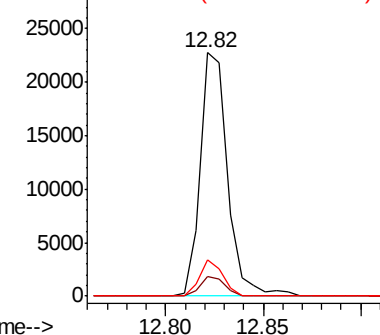
Ion	Ratio	Lower	Upper
244	100		
212	8.2	5.8	8.6
122	14.6	11.8	17.8

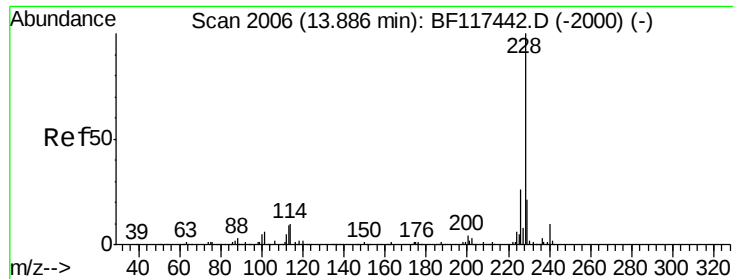


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

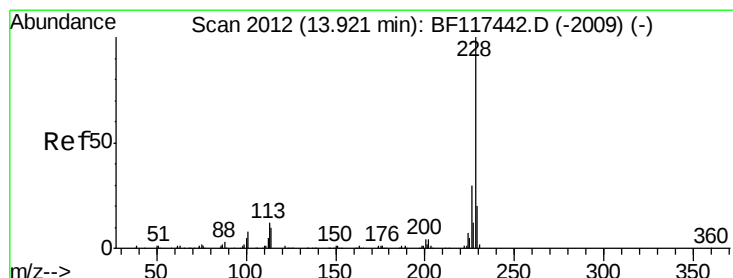
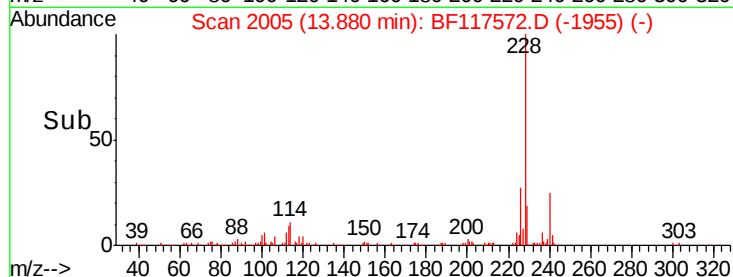
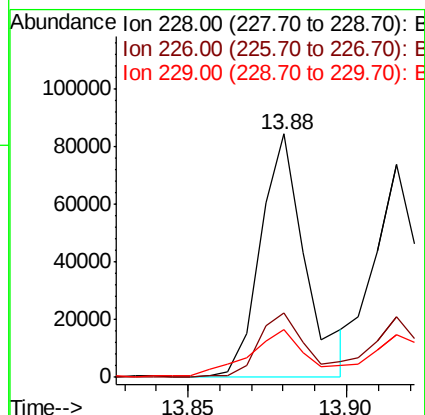
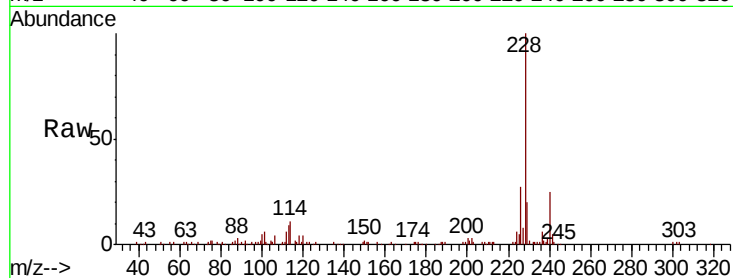




#81
Benzo(a)anthracene
Concen: 16.438 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

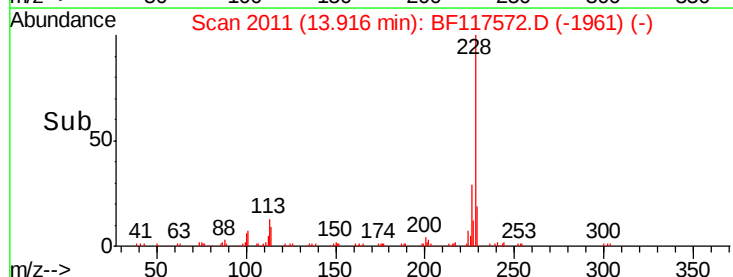
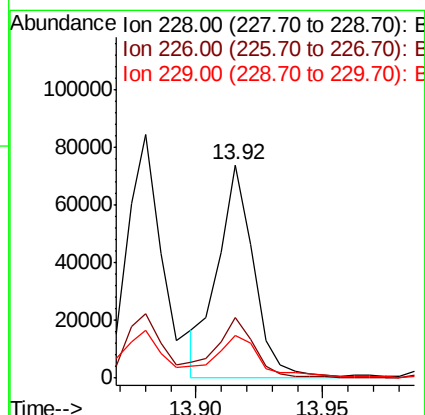
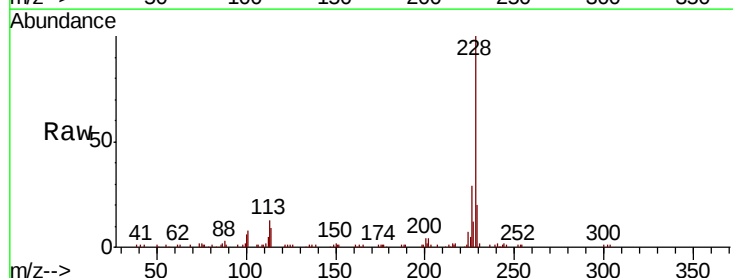
Instrument :
BNA_E
ClientSampleId :

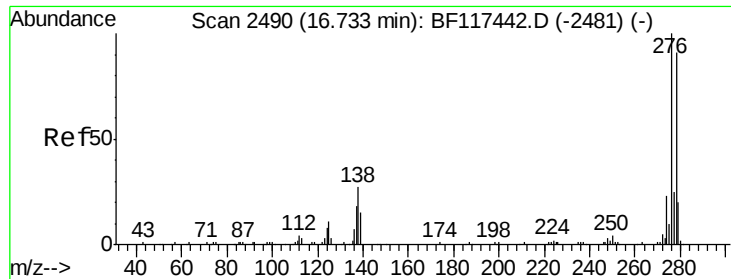
Tot Ion:228 Resp: 83229
Ion Ratio Lower Upper
228 100
226 26.7 21.0 31.4
229 19.7 16.4 24.6



#83
Chrysene
Concen: 14.688 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Tgt Ion:228 Resp: 72886
Ion Ratio Lower Upper
228 100
226 28.6 23.9 35.9
229 19.9 15.8 23.6

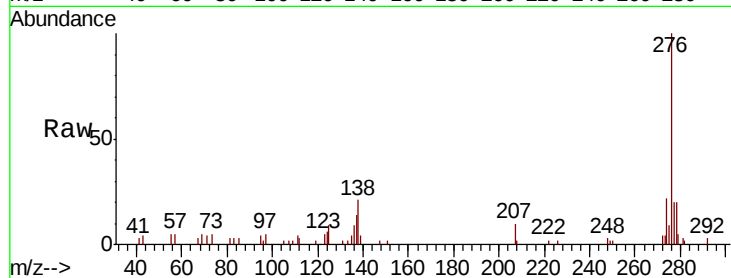




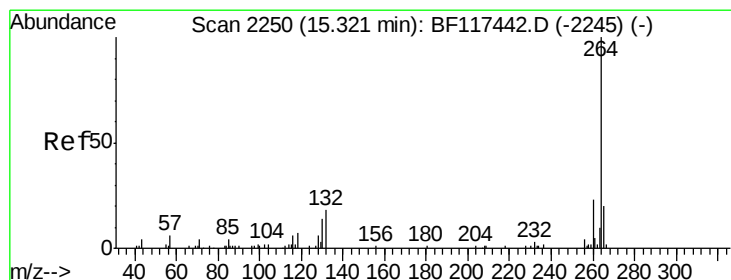
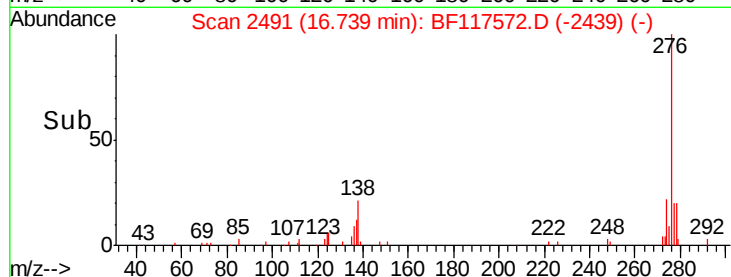
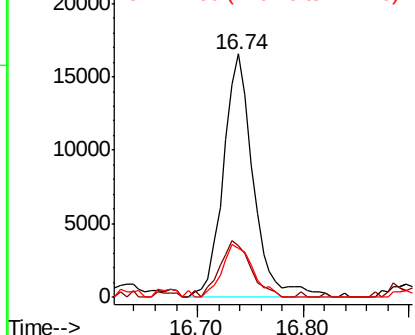
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.802 ng
 RT: 16.74 min Scan# 2491
 Delta R.T. 0.01 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.3	21.8	32.8
277	22.1	20.0	30.0

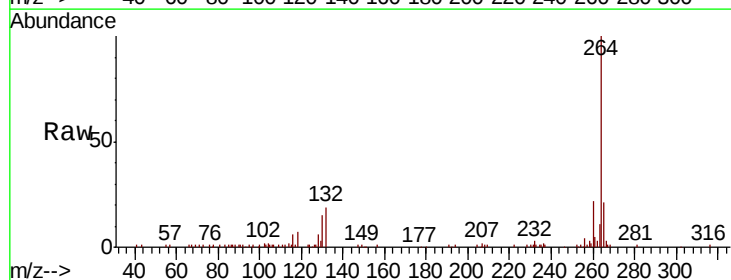


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

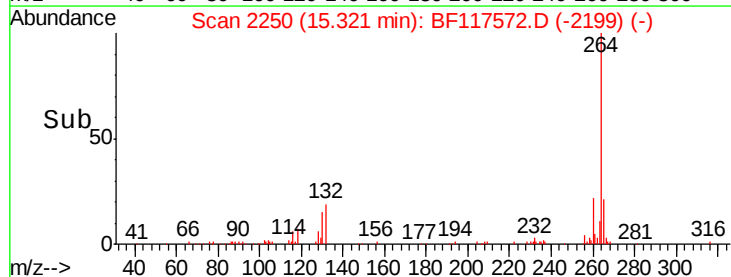
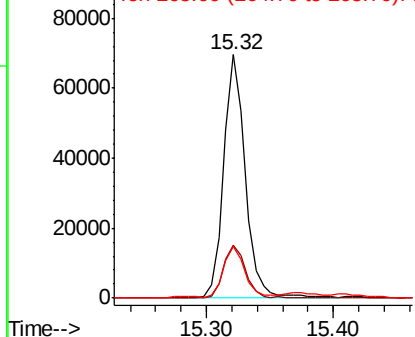


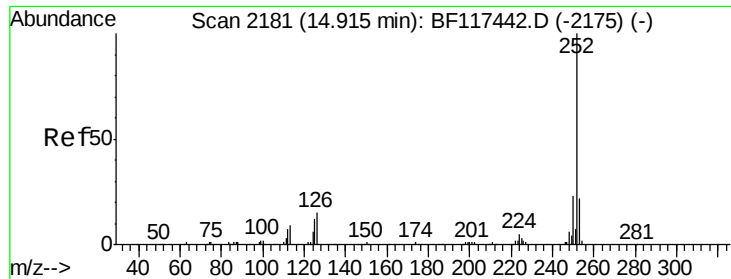
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: BF117572.D
 Acq: 28 Oct 2019 20:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	21.6	18.4	27.6
265	21.2	16.1	24.1



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

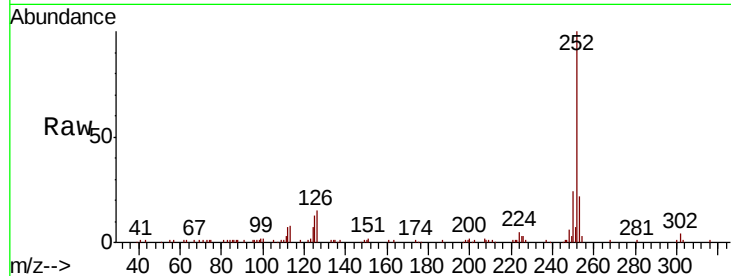




#88
Benzo(b)fluoranthene
Concen: 25.679 ng
RT: 14.92 min Scan# 2181
Delta R.T. 0.00 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	12.7	9.9	14.9

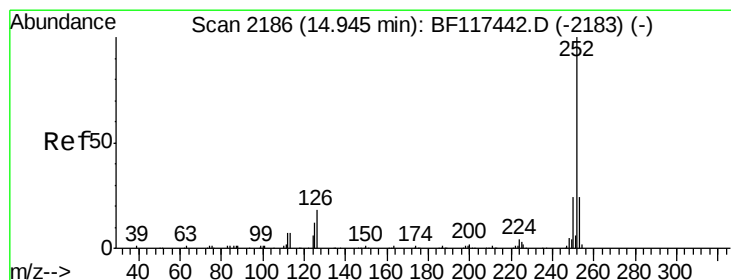
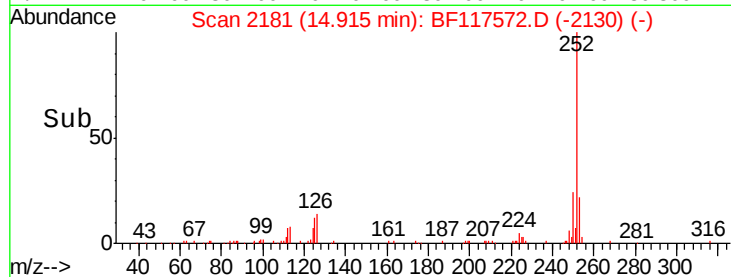
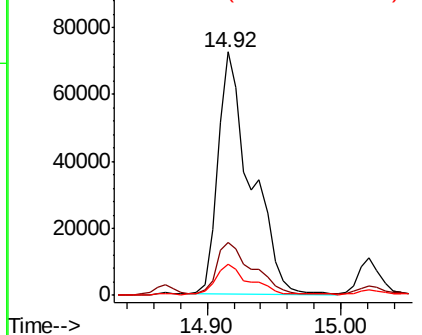


Abundance

Ion 252.00 (251.70 to 252.70): E

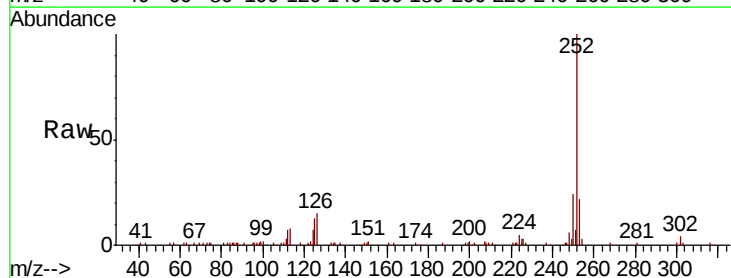
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 25.054 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.03 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	12.7	8.9	13.3

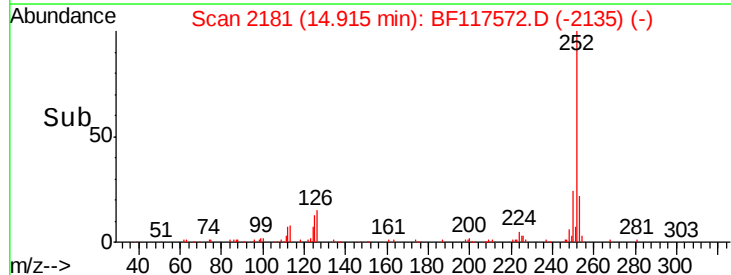
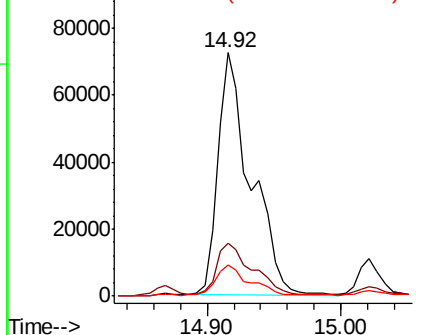


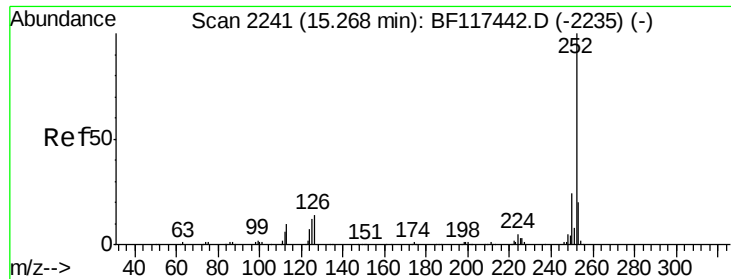
Abundance

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

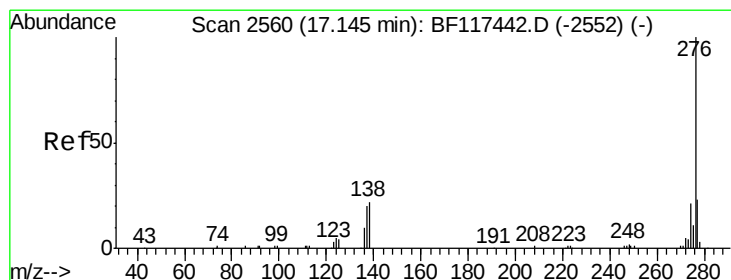
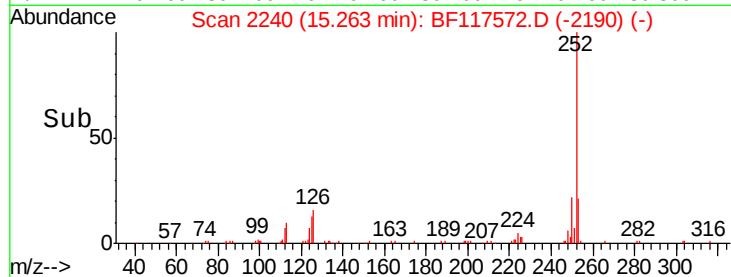
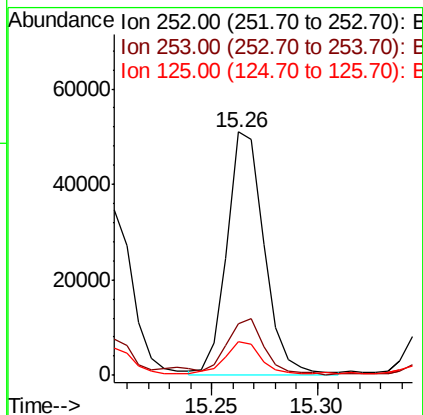
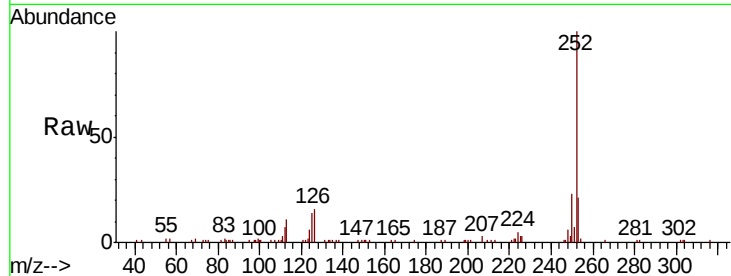




#90
Benzo(a)pyrene
Concen: 14.196 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 62706
Ion Ratio Lower Upper
252 100
253 21.4 16.3 24.5
125 14.0 9.2 13.8#



#92
Benzo(g,h,i)perylene
Concen: 6.964 ng
RT: 17.16 min Scan# 2563
Delta R.T. 0.02 min
Lab File: BF117572.D
Acq: 28 Oct 2019 20:05

Tgt Ion:276 Resp: 25166
Ion Ratio Lower Upper
276 100
277 23.8 18.4 27.6
138 25.7 17.8 26.6

