

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091319\
 Data File : BF117042.D
 Acq On : 14 Sep 2019 00:12
 Operator : HP/JU
 Sample : K4668-04 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 14 05:47:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	74060	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	298337	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	144069	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	196900	20.00	ng	0.00
76) Chrysene-d12	13.97	240	135435	20.00	ng	0.00
87) Perylene-d12	15.41	264	124845	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	217037	45.75	ng	0.00
7) Phenol-d6	6.45	99	312860	51.03	ng	0.00
23) Nitrobenzene-d5	7.38	82	184962	32.58	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	53268	44.24	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	348965	37.87	ng	0.00
79) Terphenyl-d14	12.91	244	234117	32.31	ng	0.00

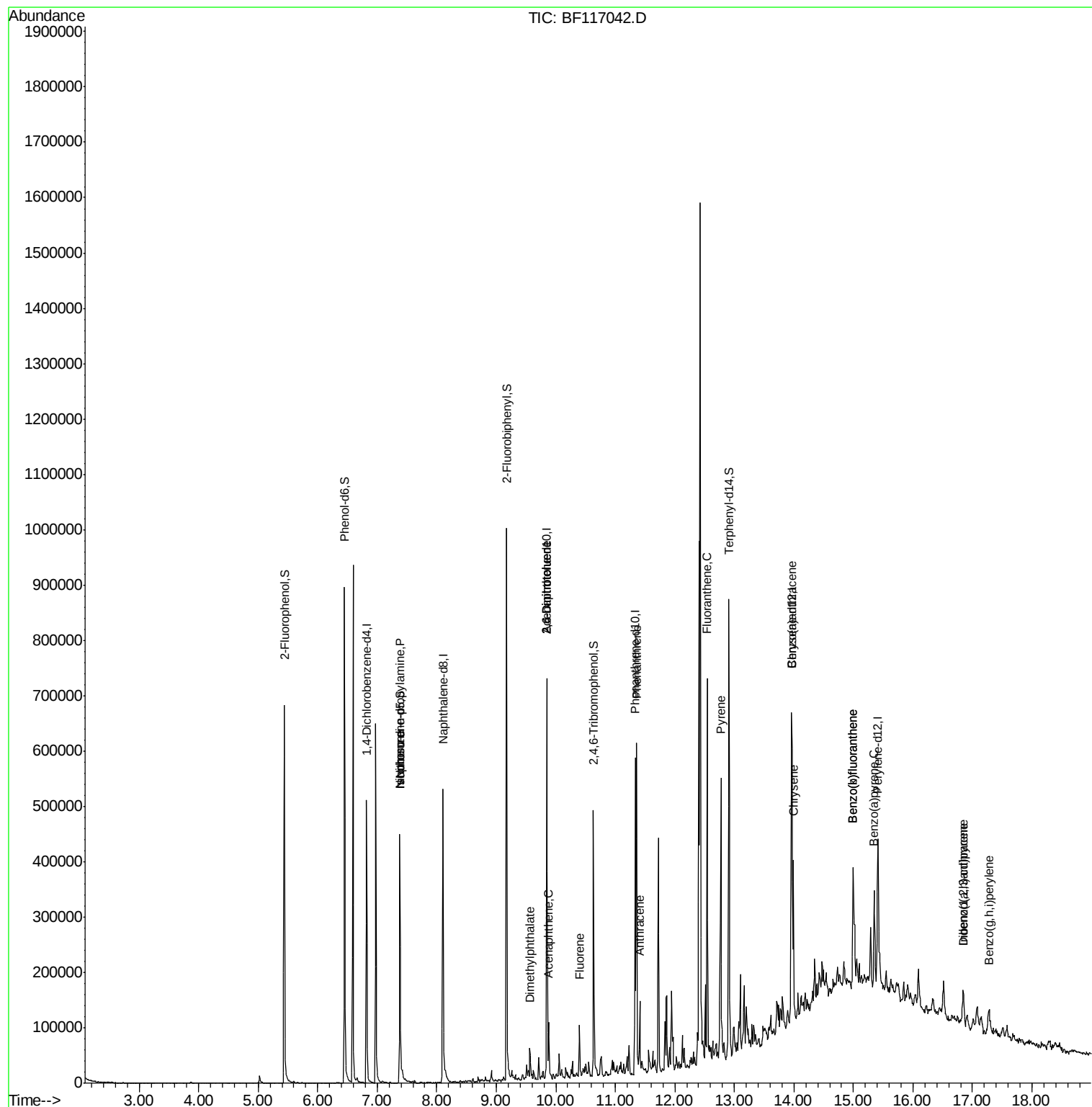
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.45	77	421	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.38	70	25109	6.726	ng	# 81
25) Isophorone	7.38	82	184959	18.398	ng	# 66
50) Dimethylphthalate	9.56	163	21559	2.113	ng	# 97
51) 2,6-Dinitrotoluene	9.85	165	20173	9.710	ng	# 25
52) Acenaphthene	9.88	154	19797	2.500	ng	# 94
57) 2,4-Dinitrotoluene	9.85	165	20173	7.480	ng	# 19
58) Fluorene	10.40	166	29080	3.089	ng	# 96
71) Phenanthrene	11.36	178	215829	19.298	ng	# 99
72) Anthracene	11.41	178	64039	5.609	ng	# 94
75) Fluoranthene	12.54	202	269716	23.471	ng	# 96
78) Pvrene	12.77	202	230208	20.258	ng	# 99
81) Benzo(a)anthracene	13.96	228	112637	12.448	ng	# 99
83) Chrysene	13.99	228	100257	11.360	ng	# 98
86) Indeno(1,2,3-cd)pyrene	16.84	276	37078	5.759	ng	# 95
88) Benzo(b)fluoranthene	14.99	252	151444	20.026	ng	# 97
89) Benzo(k)fluoranthene	14.99	252	151444	21.141	ng	# 97
90) Benzo(a)pyrene	15.35	252	77063	11.613	ng	# 95
91) Dibenzo(a,h)anthracene	16.85	278	13388	2.532	ng	# 81
92) Benzo(a,h,i)perylene	17.27	276	39966	7.587	ng	# 96

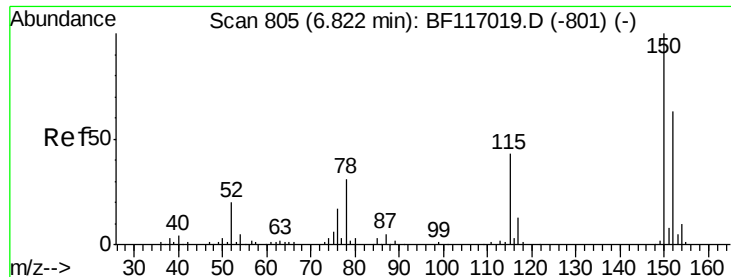
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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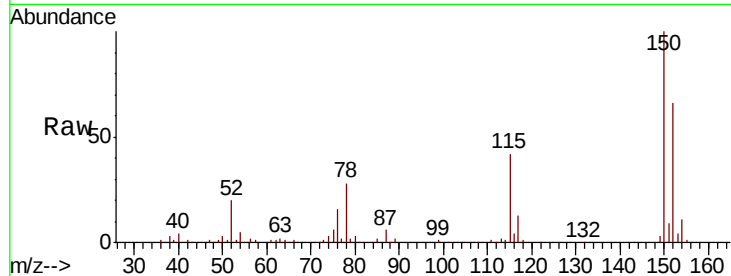


#1

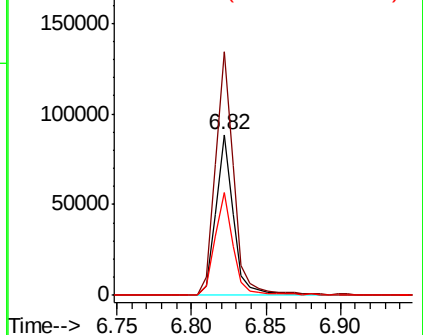
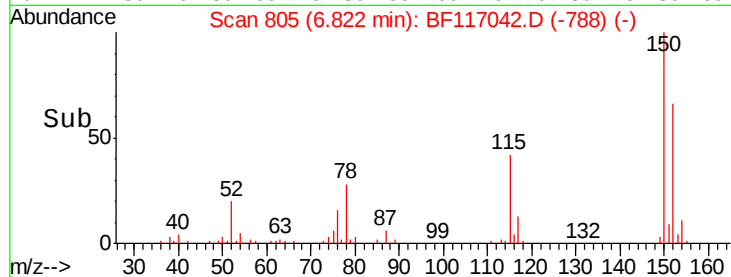
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 74060
Ion Ratio Lower Upper
152 100
150 151.5 127.5 191.3
115 64.0 55.0 82.4



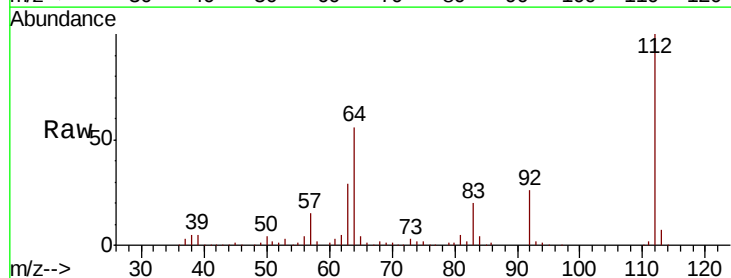
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



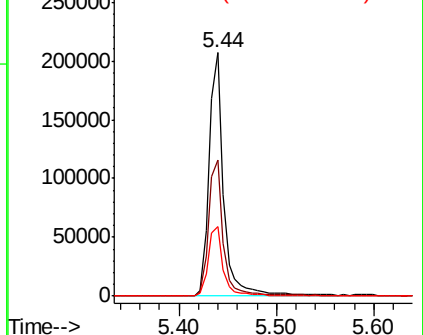
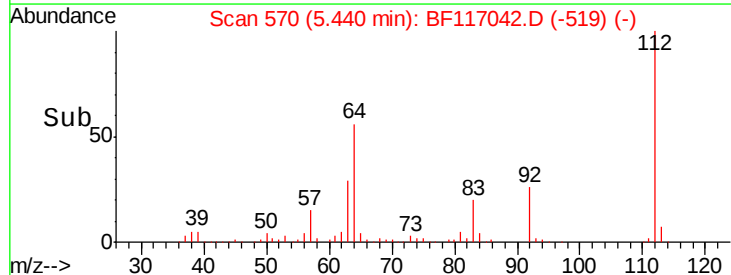
#5

2-Fluorophenol
Concen: 45.753 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion:112 Resp: 217037
Ion Ratio Lower Upper
112 100
64 55.8 45.7 68.5
63 28.5 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: 51.033 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

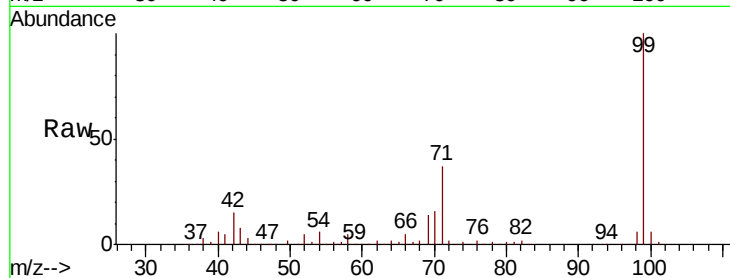
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 312860

Ion	Ratio	Lower	Upper
99	100		
42	15.4	12.2	18.2
71	37.4	29.8	44.8

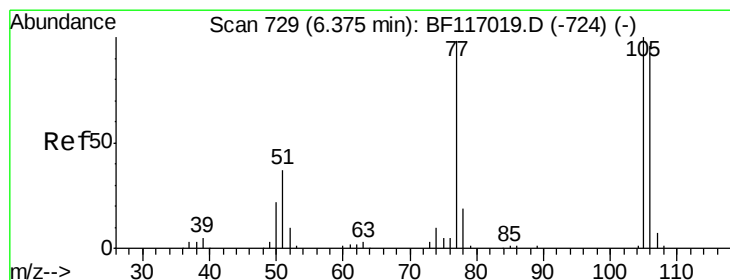
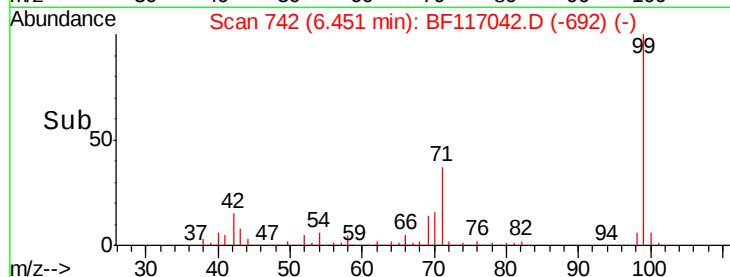
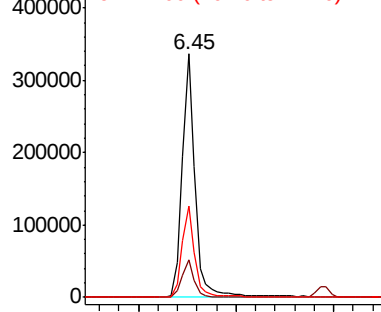


Abundance

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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.45 min Scan# 742

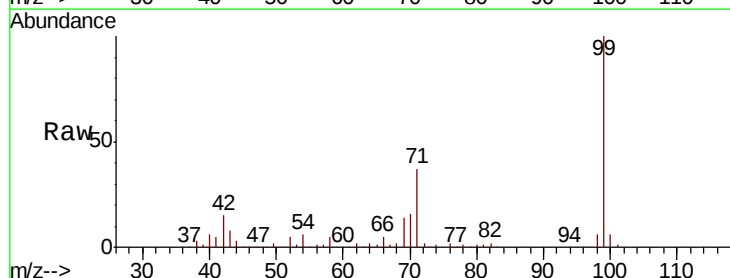
Delta R.T. 0.08 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Tgt Ion: 77 Resp: 421

Ion	Ratio	Lower	Upper
77	100		
105	0.0	81.8	121.8#
106	0.0	77.3	117.3#

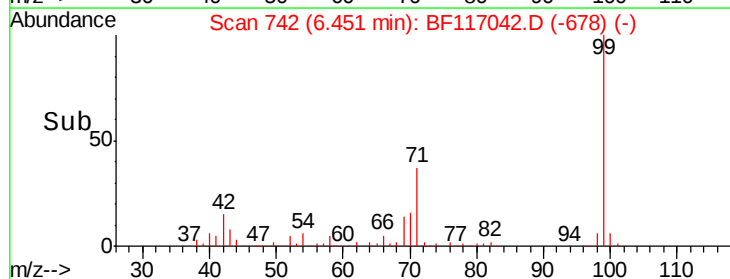
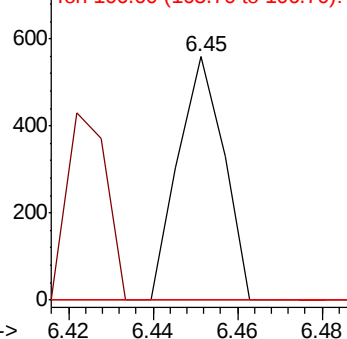


Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

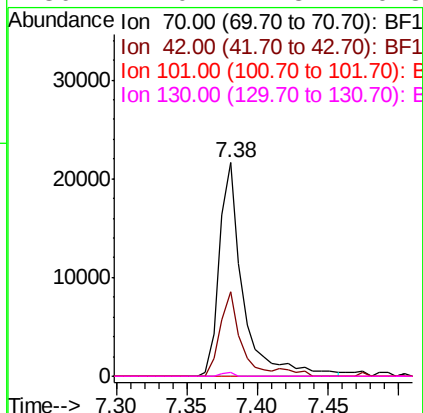
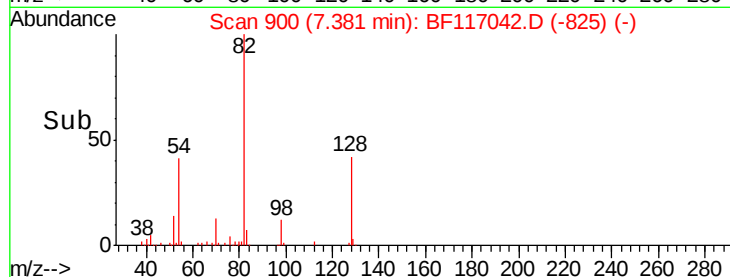
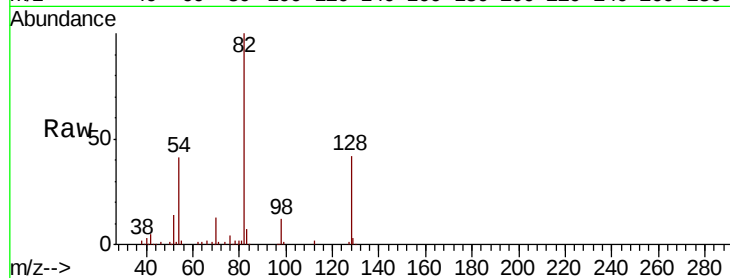




#19
n-Nitroso-di-n-propylamine
Concen: 6.726 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.14 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

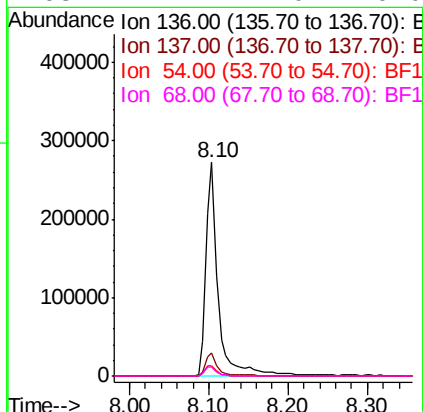
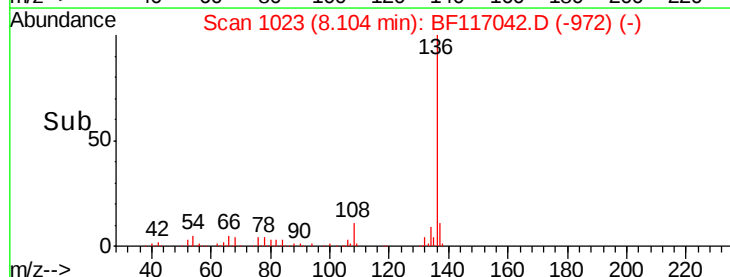
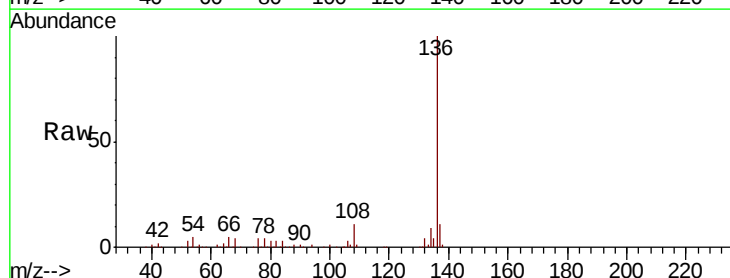
Instrument :
BNA_F
ClientSampleId :

Tot Ion: 70 Resp: 25109
Ion Ratio Lower Upper
70 100
42 39.7 34.0 51.0
101 0.0 7.8 11.6#
130 2.0 17.8 26.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1023
Delta R.T. 0.00 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion: 136 Resp: 298337
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 5.0 4.5 6.7
68 4.2 4.0 6.0

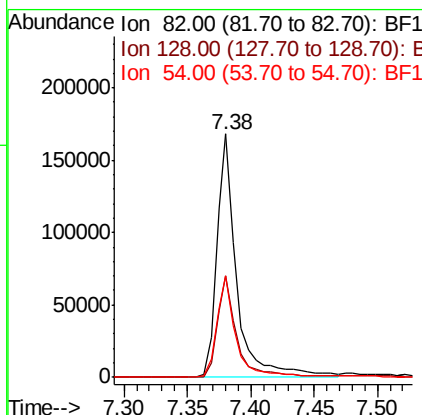
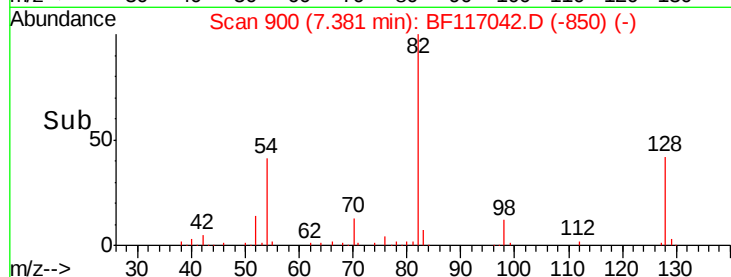
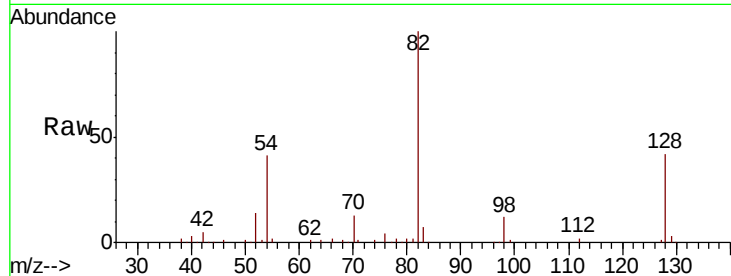




#23
 Nitrobenzene-d5
 Concen: 32.575 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF117042.D
 Acq: 14 Sep 2019 00:12

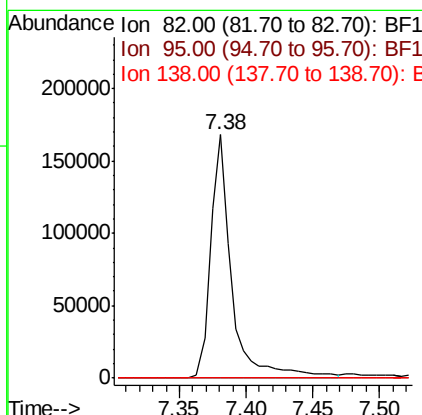
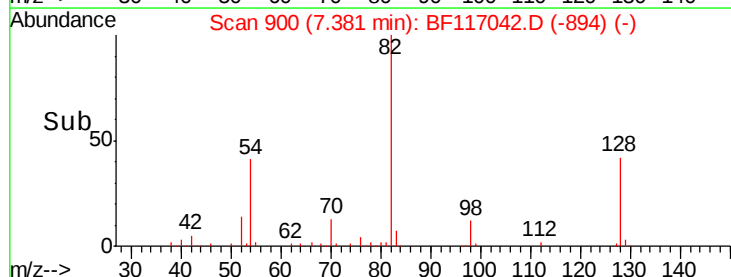
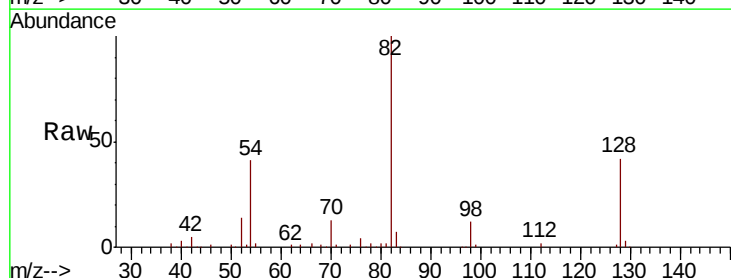
Instrument :
 BNA_F
 ClientSampled :

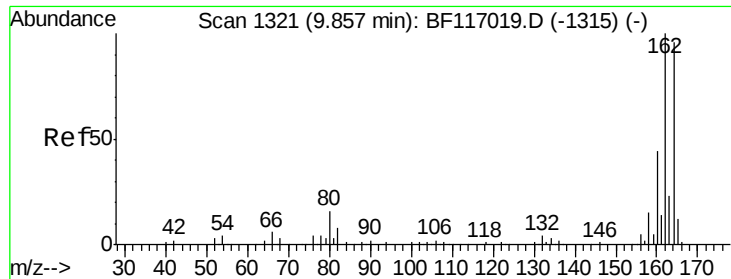
Tot Ion	82	Resp	184962
Ion Ratio	100	Lower	Upper
128	41.8	32.3	48.5
54	41.5	33.3	49.9



#25
 Isophorone
 Concen: 18.398 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.26 min
 Lab File: BF117042.D
 Acq: 14 Sep 2019 00:12

Tgt Ion	82	Resp	184959
Ion Ratio	100	Lower	Upper
95	0.0	5.8	8.6#
138	0.0	13.5	20.3#

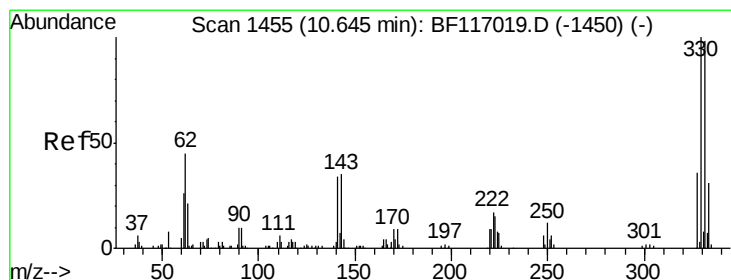
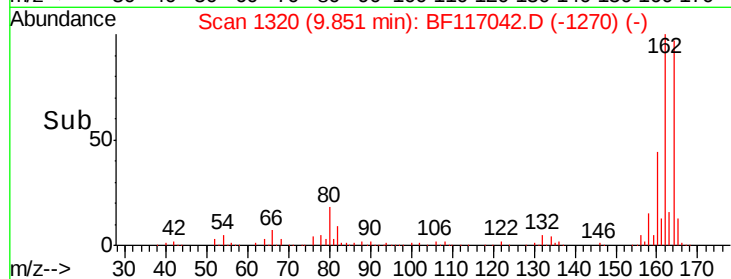
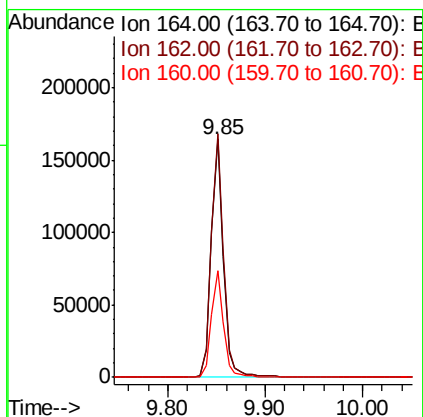
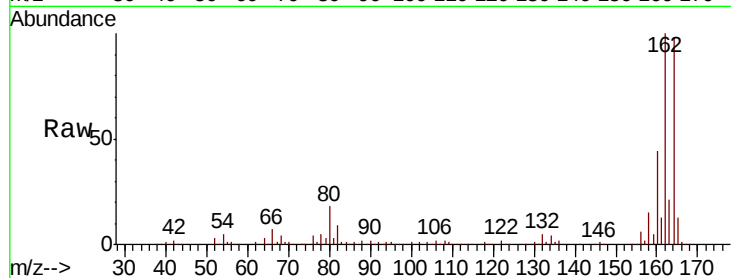




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

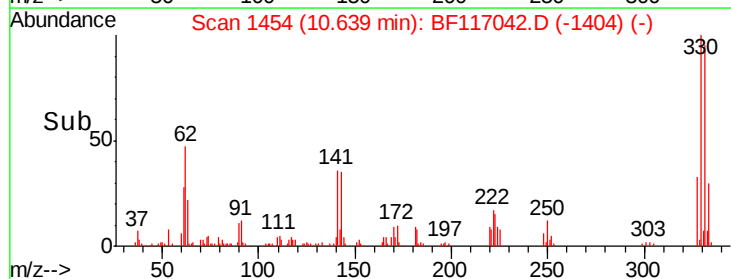
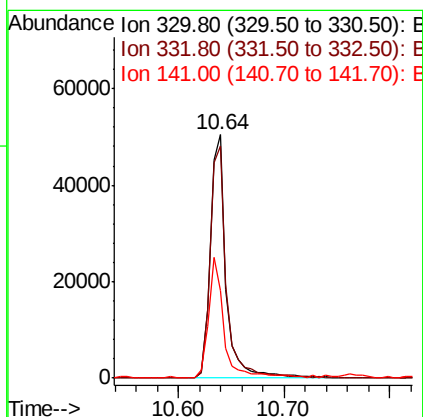
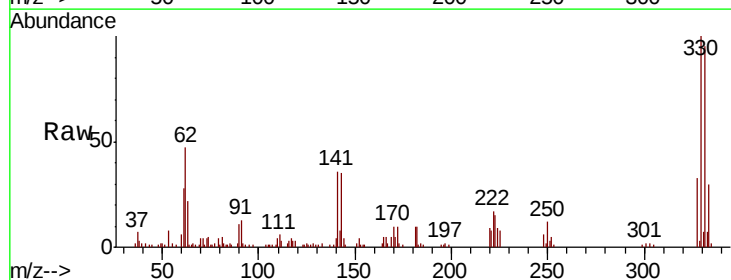
Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 144069
Ion Ratio Lower Upper
164 100
162 102.3 83.4 125.2
160 45.1 36.4 54.6



#42
2,4,6-Tribromophenol
Concen: 44.239 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion:330 Resp: 53268
Ion Ratio Lower Upper
330 100
332 97.8 78.0 117.0
141 48.3 35.8 53.6

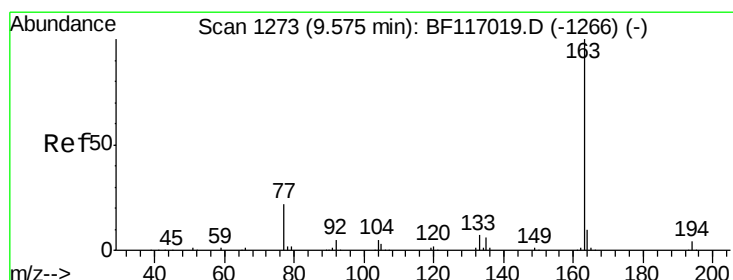
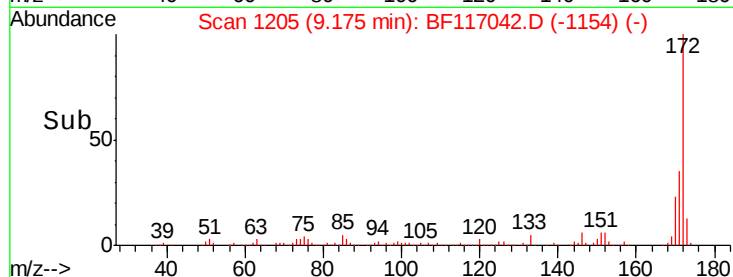
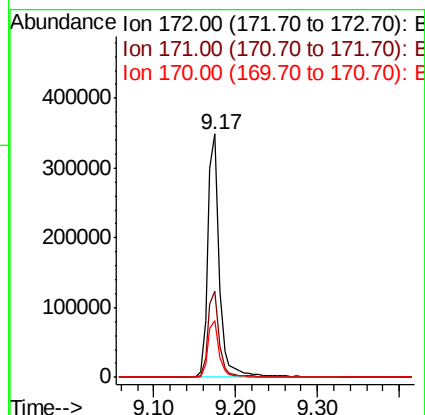
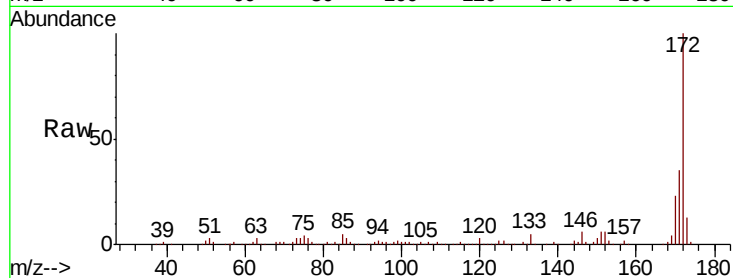




#45
2-Fluorobiphenyl
Concen: 37.873 ng
RT: 9.17 min Scan# 1205
Delta R.T. 0.00 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

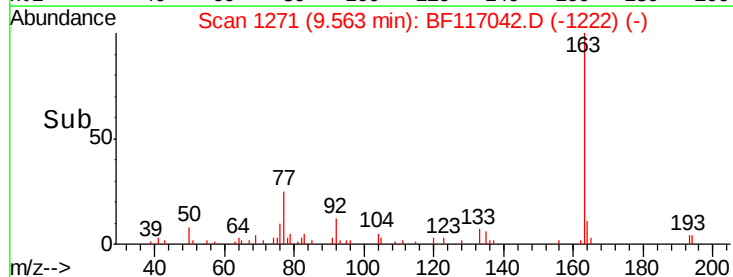
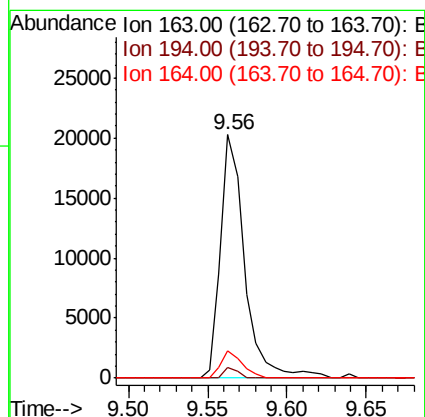
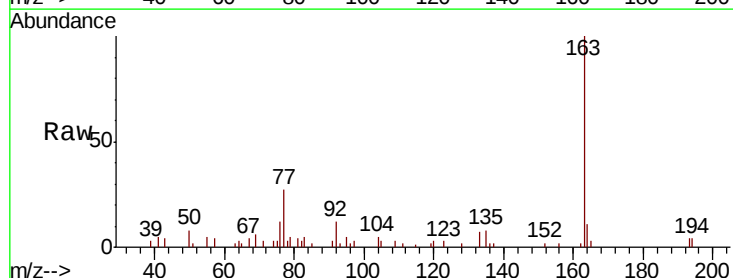
Instrument :
BNA_F
ClientSampleId :

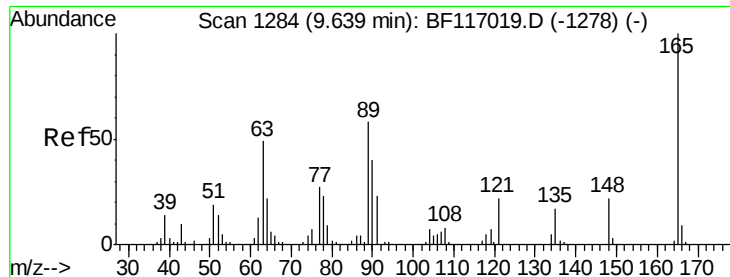
Tot Ion:172 Resp: 348965
Ion Ratio Lower Upper
172 100
171 35.4 28.2 42.2
170 23.3 18.9 28.3



#50
Dimethylphthalate
Concen: 2.113 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion:163 Resp: 21559
Ion Ratio Lower Upper
163 100
194 4.3 2.9 4.3#
164 11.4 8.2 12.4





#51

2,6-Dinitrotoluene

Concen: 9.710 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.21 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :
BNA_F
ClientSampleId :

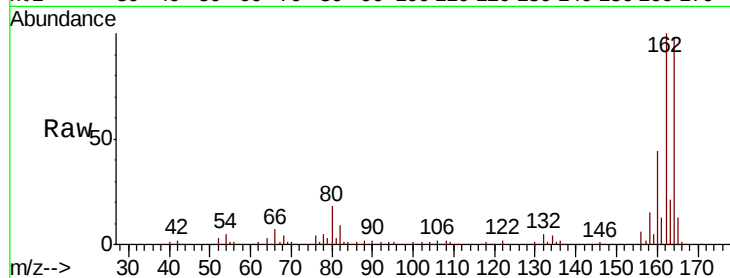
Tot Ion:165 Resp: 20173

Ion Ratio Lower Upper

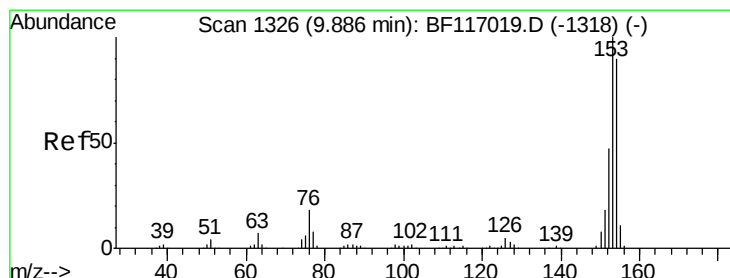
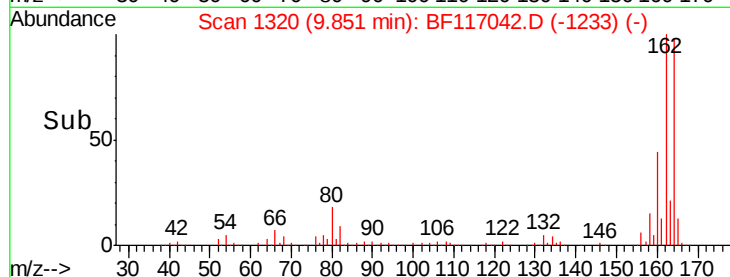
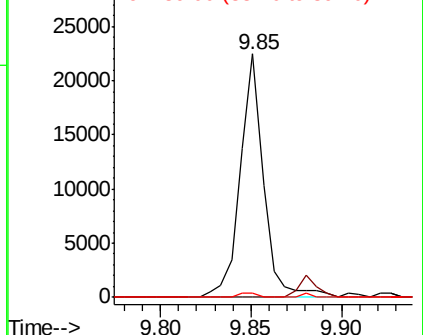
165 100

63 0.0 41.8 62.8#

89 1.9 46.5 69.7#



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



#52

Acenaphthene

Concen: 2.500 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

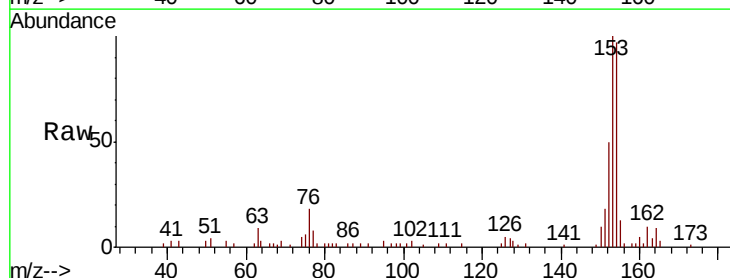
Tgt Ion:154 Resp: 19797

Ion Ratio Lower Upper

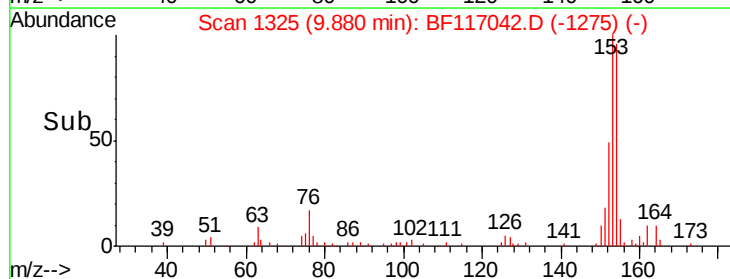
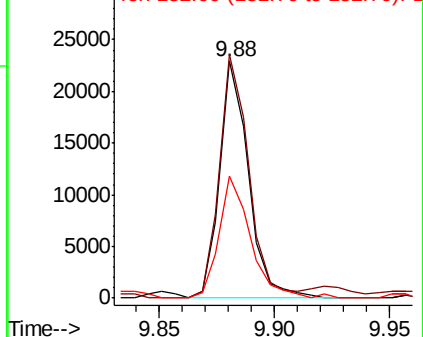
154 100

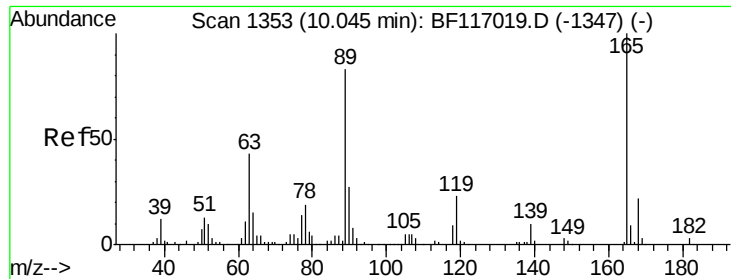
153 102.9 89.0 133.6

152 51.7 41.9 62.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

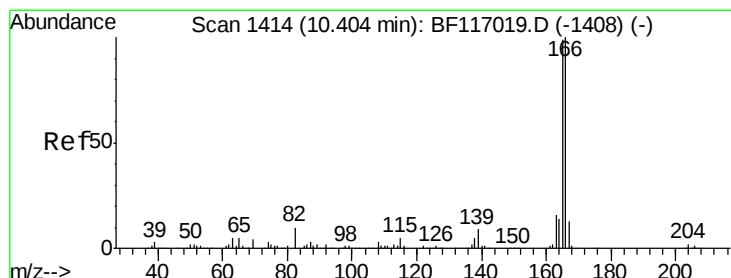
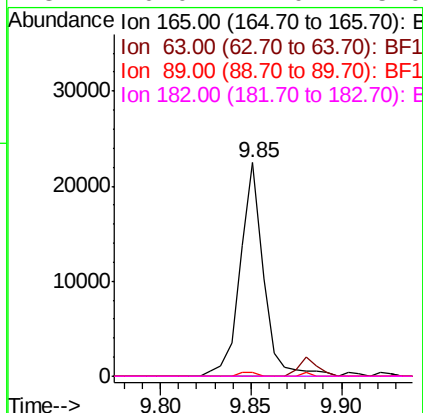
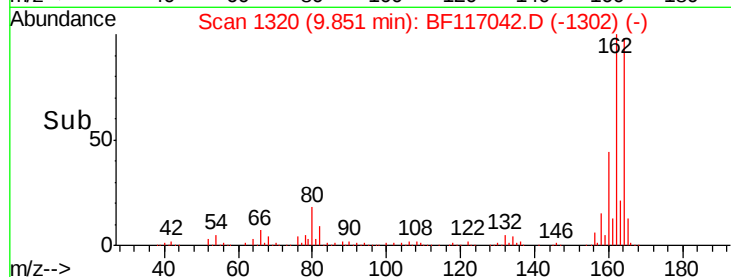
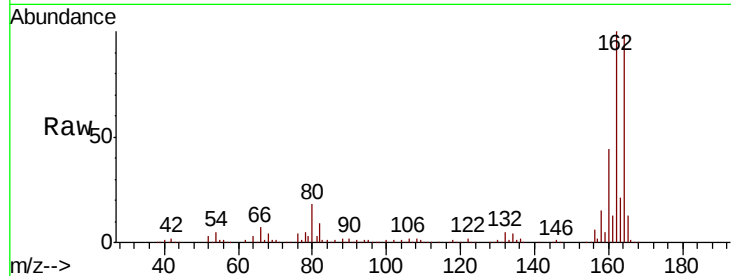




#57
 2,4-Dinitrotoluene
 Concen: 7.480 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.19 min
 Lab File: BF117042.D
 Acq: 14 Sep 2019 00:12

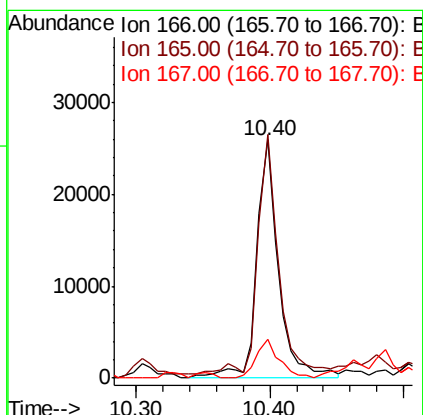
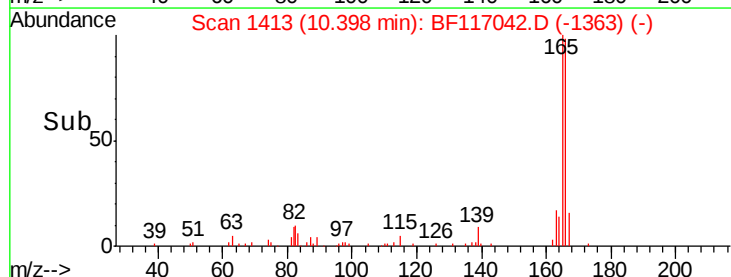
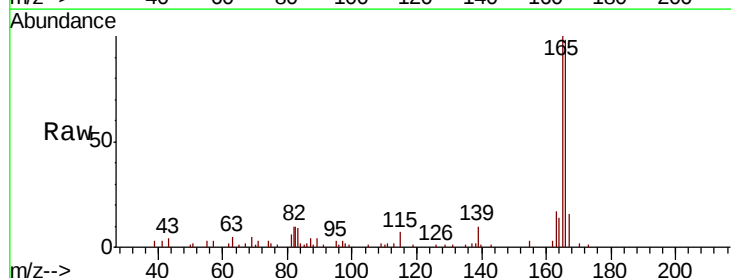
Instrument :
 BNA_F
 ClientSampleId :

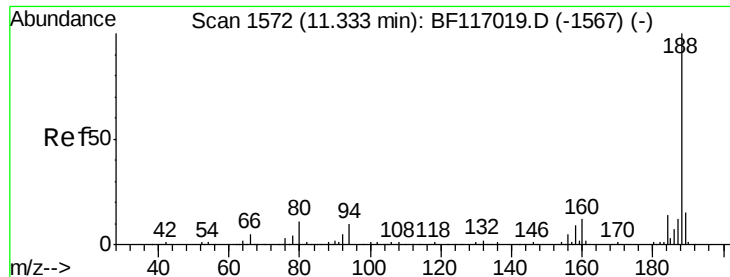
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	35.0	52.4#
89	1.9	66.1	99.1#
182	0.0	2.0	3.0#



#58
 Fluorene
 Concen: 3.089 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF117042.D
 Acq: 14 Sep 2019 00:12

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.2	78.9	118.3
167	16.4	10.6	15.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampled :

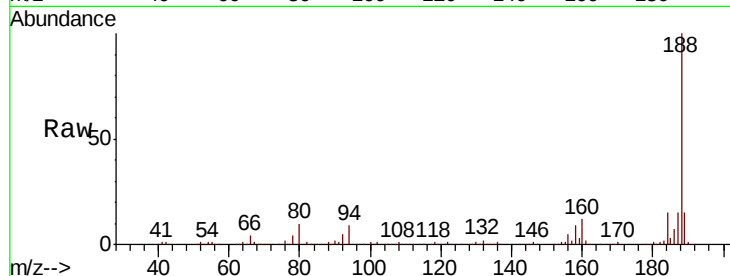
Tot Ion:188 Resp: 196900

Ion Ratio Lower Upper

188 100

94 8.8 8.2 12.2

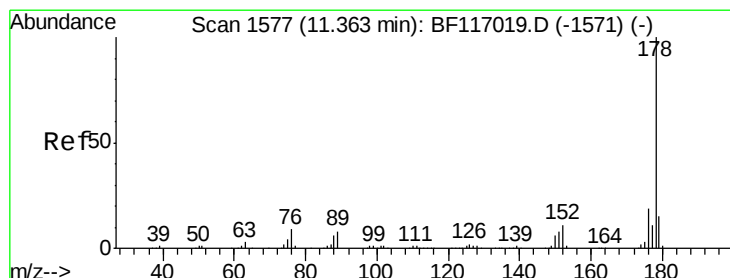
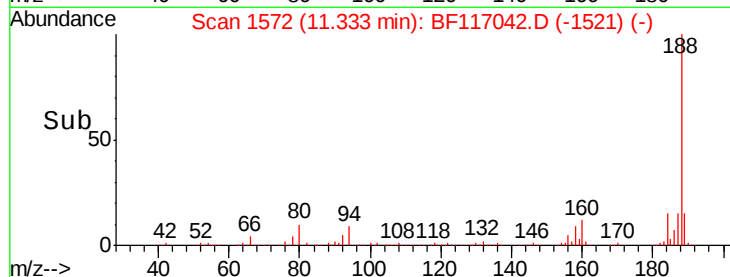
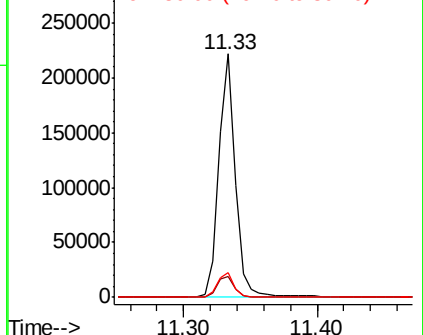
80 10.0 9.0 13.6



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: 19.298 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

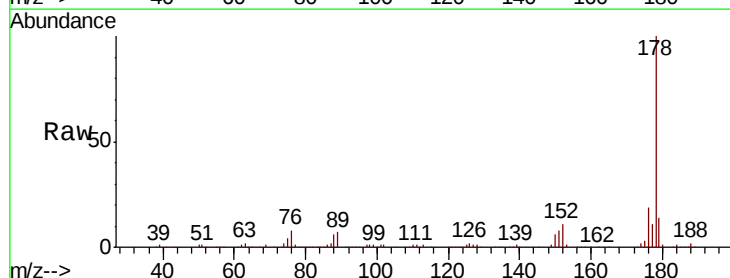
Tgt Ion:178 Resp: 215829

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

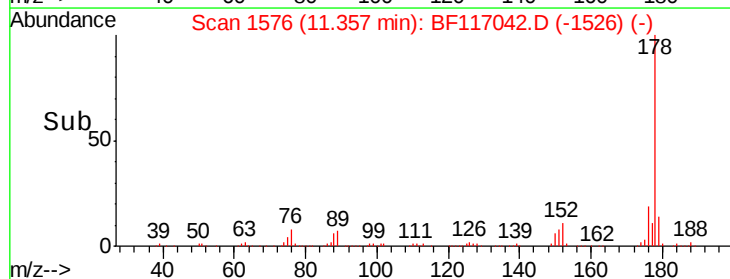
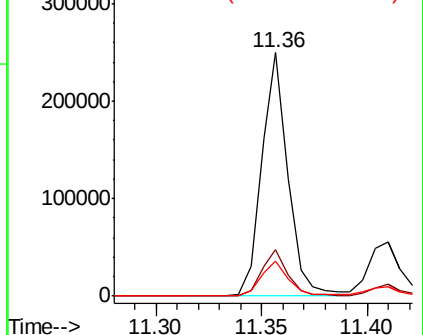
179 14.5 12.4 18.6

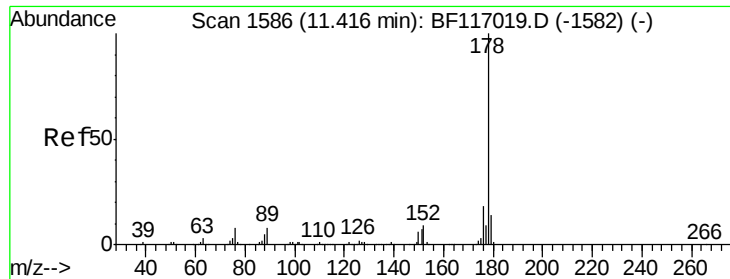


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 5.609 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampleId :

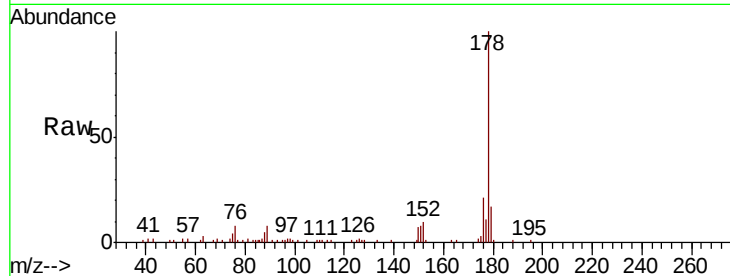
Tot Ion:178 Resp: 64039

Ion Ratio Lower Upper

178 100

176 21.1 14.6 21.8

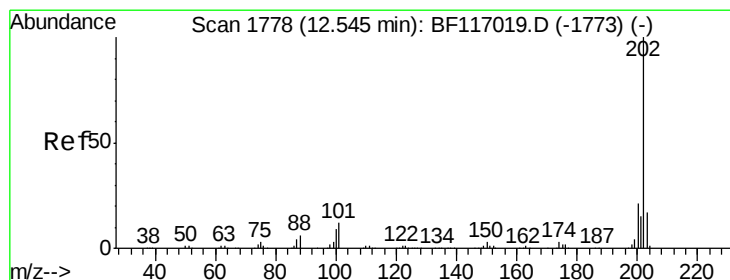
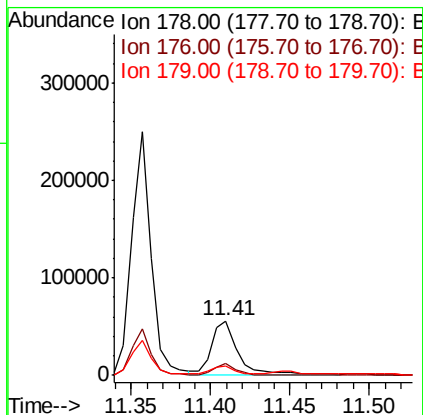
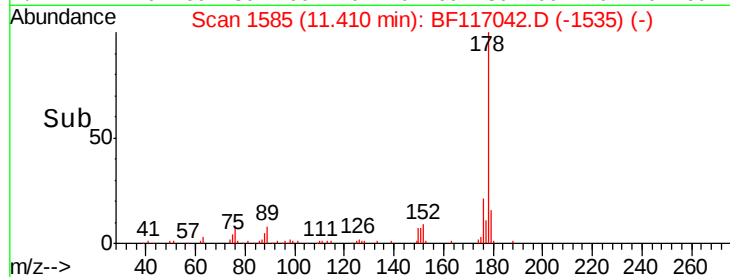
179 16.9 11.6 17.4



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: 23.471 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

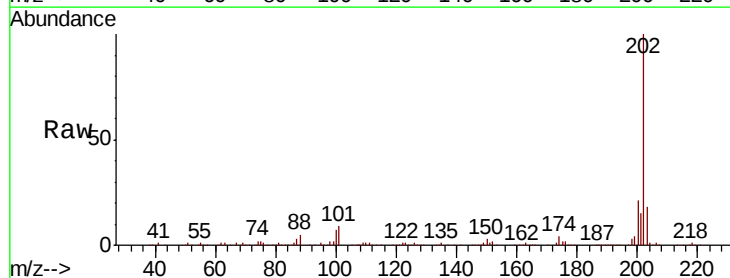
Tgt Ion:202 Resp: 269716

Ion Ratio Lower Upper

202 100

101 9.5 0.0 32.3

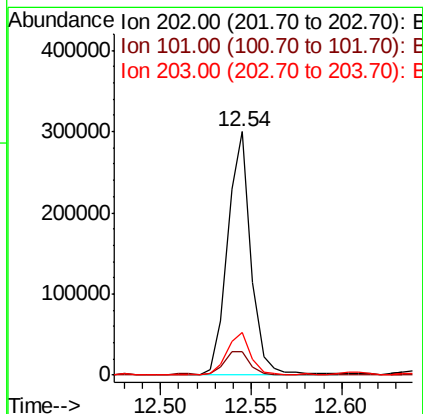
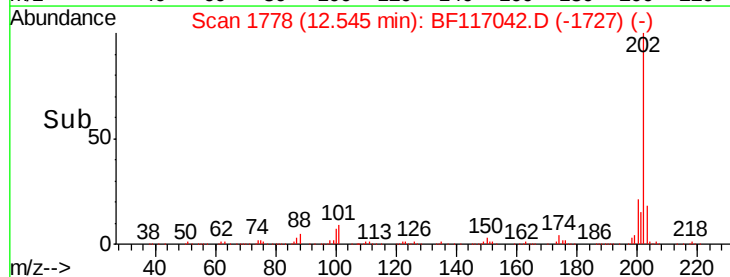
203 17.7 0.0 37.1

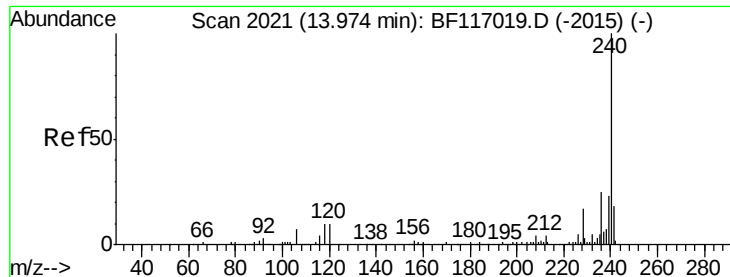


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampleId :

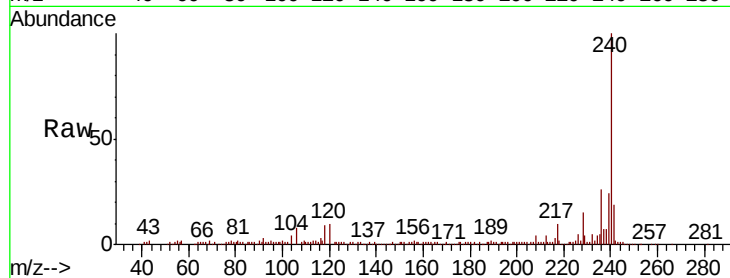
Tot Ion:240 Resp: 135435

Ion Ratio Lower Upper

240 100

120 10.5 8.3 12.5

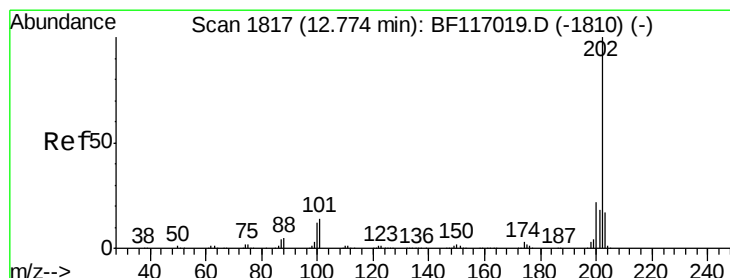
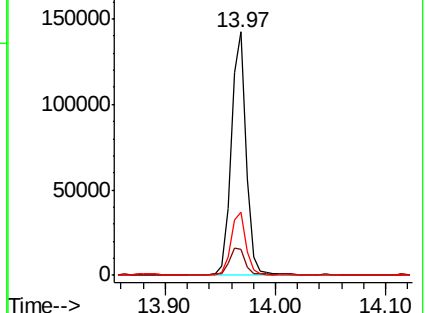
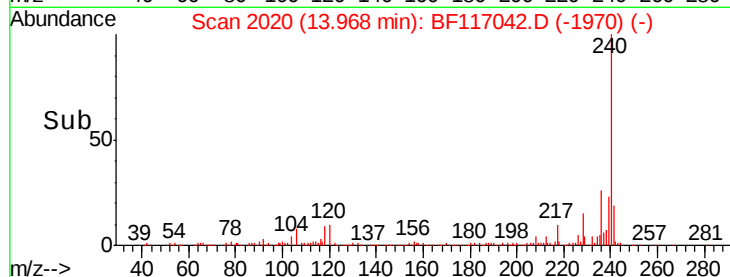
236 26.2 20.3 30.5



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: 20.258 ng

RT: 12.77 min Scan# 1817

Delta R.T. 0.00 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

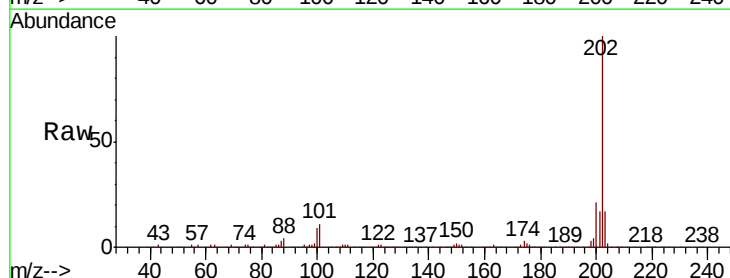
Tgt Ion:202 Resp: 230208

Ion Ratio Lower Upper

202 100

200 20.8 17.2 25.8

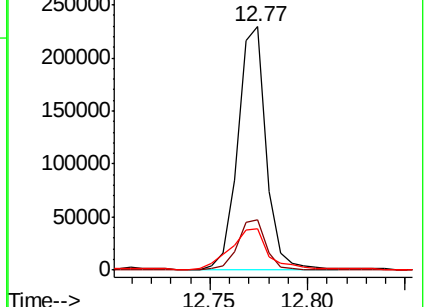
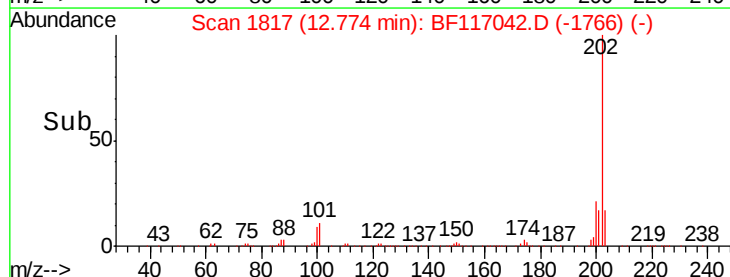
203 17.0 14.0 21.0

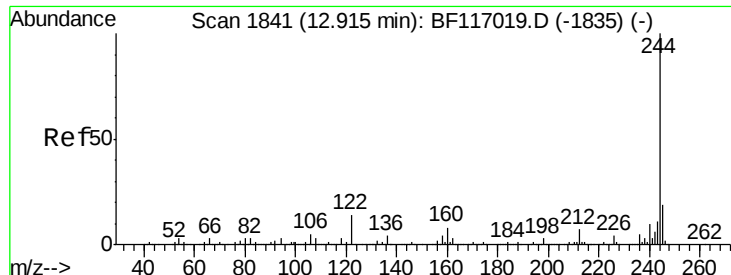


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 32.312 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampleId :

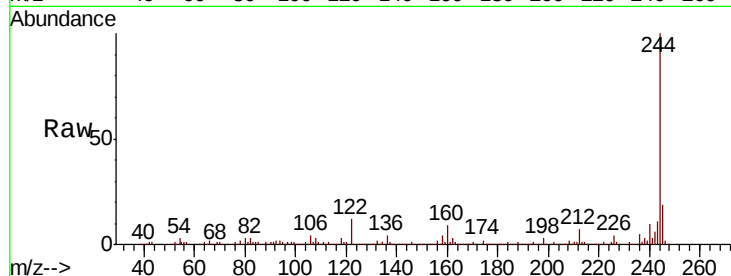
Tot Ion:244 Resp: 234117

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

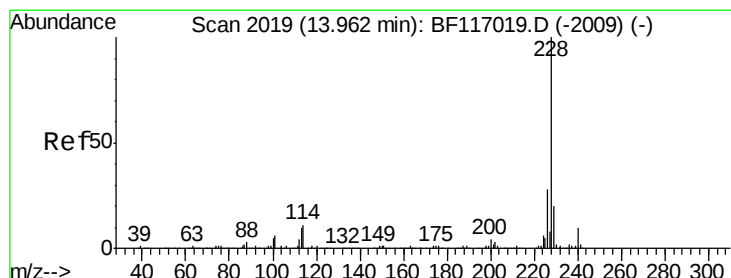
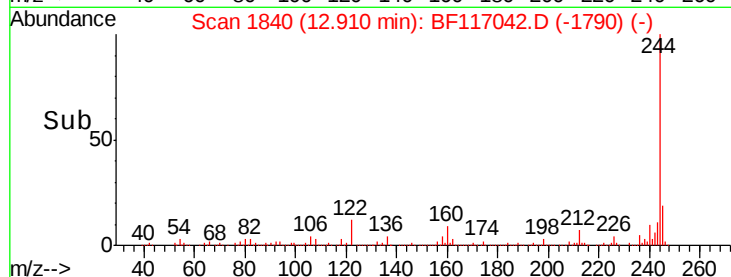
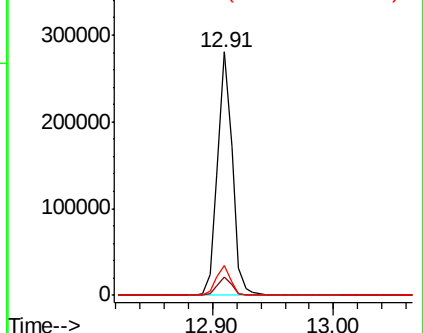
122 12.4 11.3 16.9



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: 12.448 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

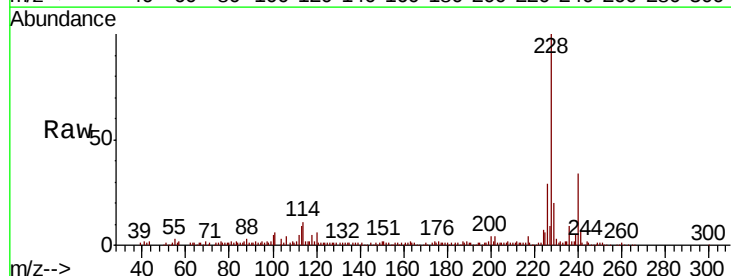
Tgt Ion:228 Resp: 112637

Ion Ratio Lower Upper

228 100

226 28.6 22.3 33.5

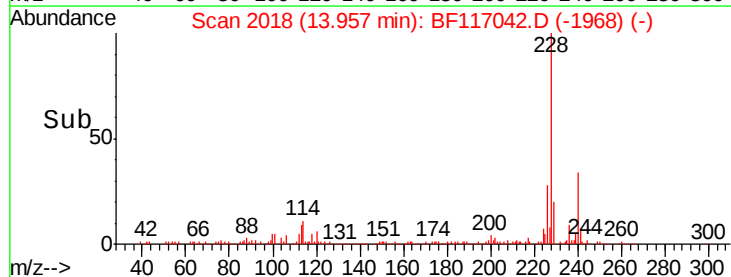
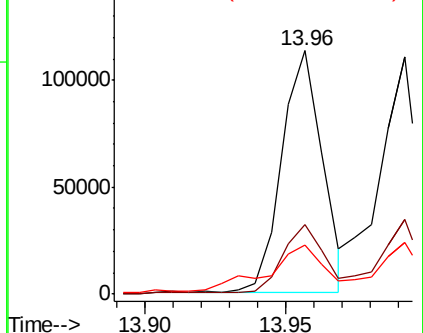
229 20.4 15.9 23.9

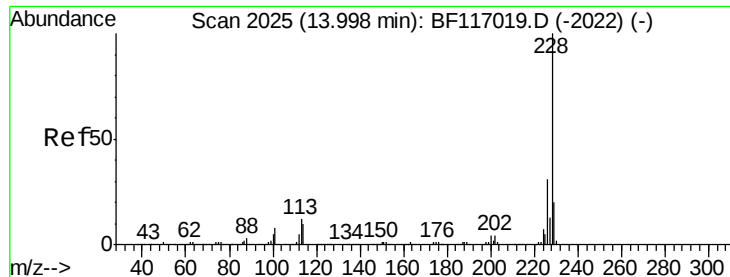


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

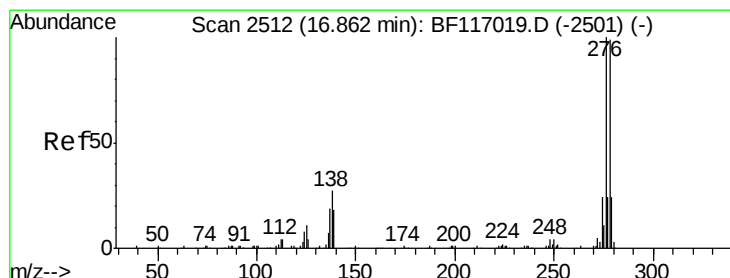
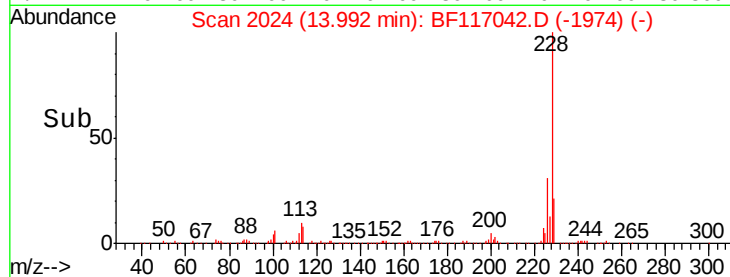
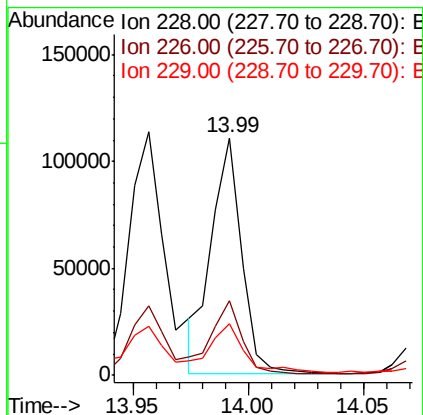
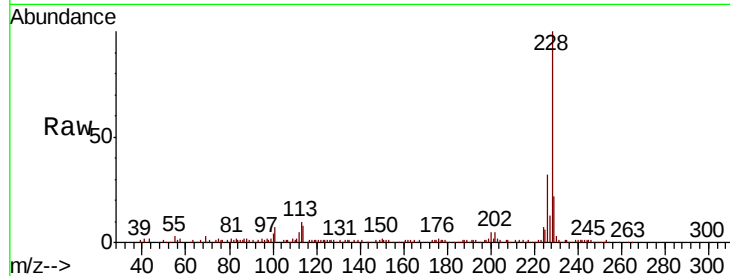




#83
Chrysene
Concen: 11.360 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

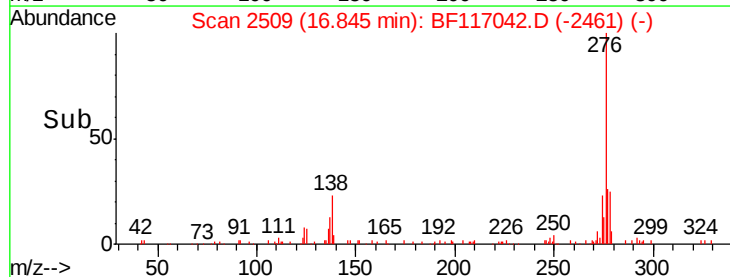
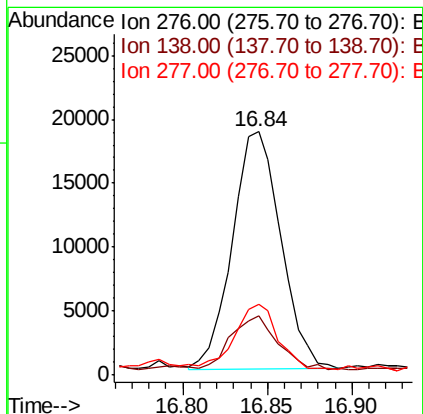
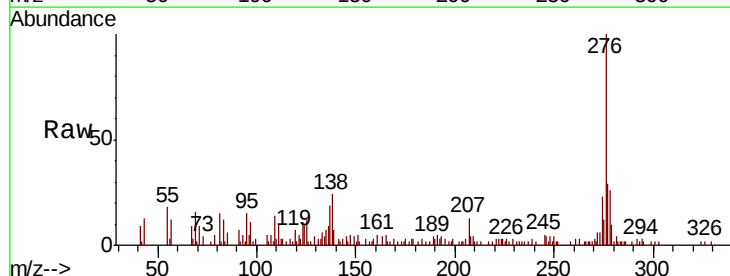
Instrument :
BNA_F
ClientSampleId :

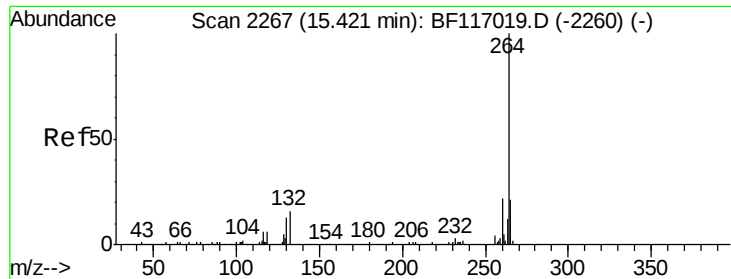
Tot Ion:228	Resp:	100257
Ion	Ratio	Lower Upper
228	100	
226	31.6	24.8 37.2
229	21.9	15.8 23.8



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.759 ng
RT: 16.84 min Scan# 2509
Delta R.T. -0.02 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion:276	Resp:	37078
Ion	Ratio	Lower Upper
276	100	
138	21.8	20.7 31.1
277	24.3	19.8 29.8





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampleId :

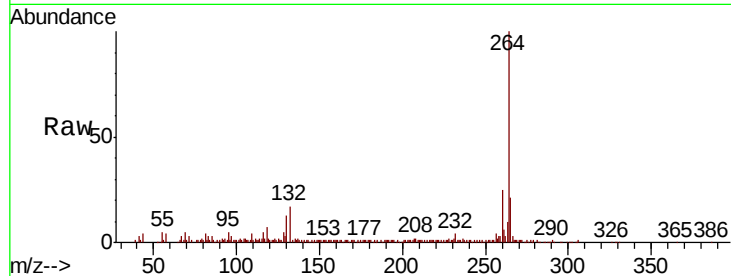
Tot Ion:264 Resp: 124845

Ion Ratio Lower Upper

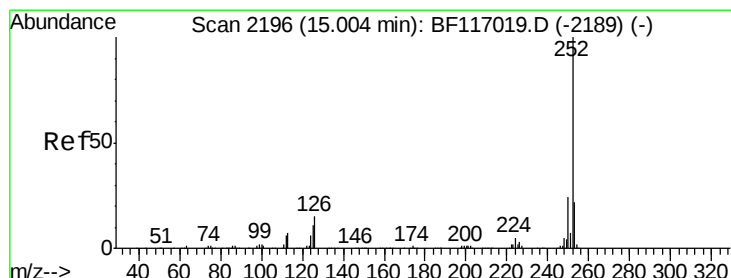
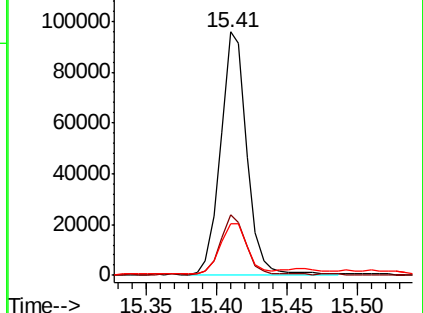
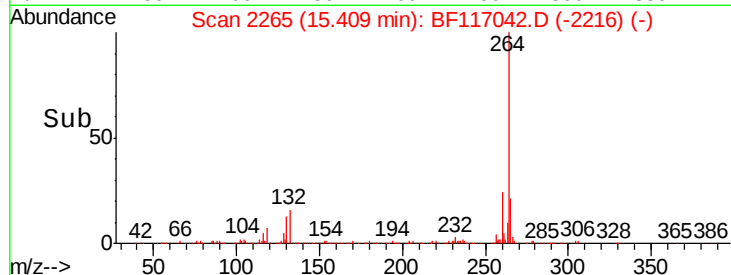
264 100

260 24.8 17.6 26.4

265 21.2 16.6 24.8



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: 20.026 ng

RT: 14.99 min Scan# 2194

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

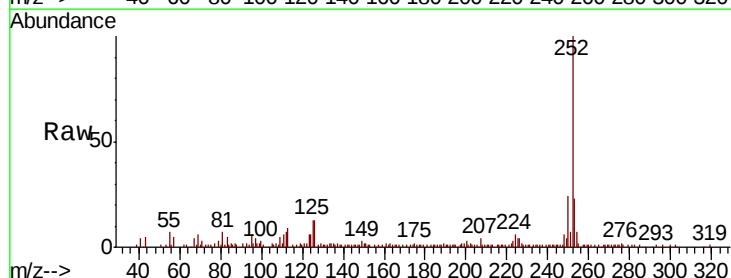
Tgt Ion:252 Resp: 151444

Ion Ratio Lower Upper

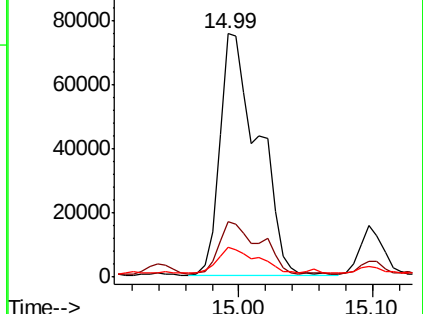
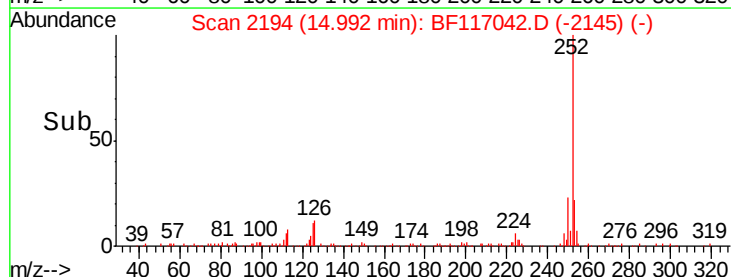
252 100

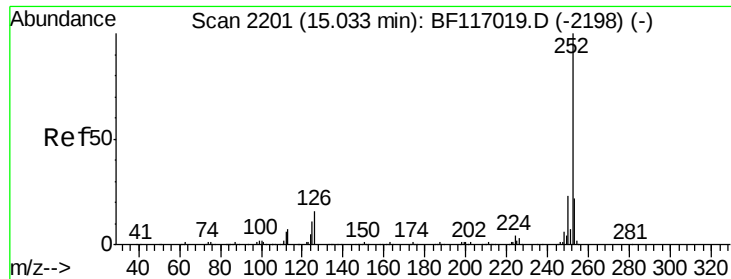
253 22.7 17.6 26.4

125 12.5 8.6 12.8



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

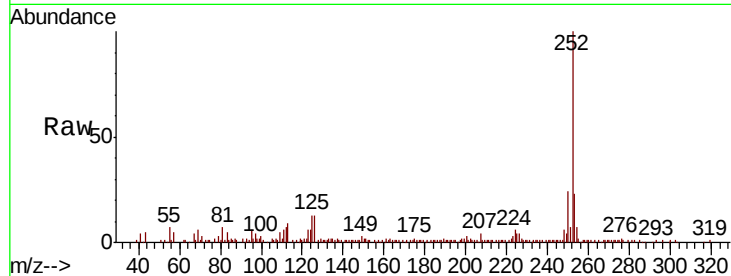




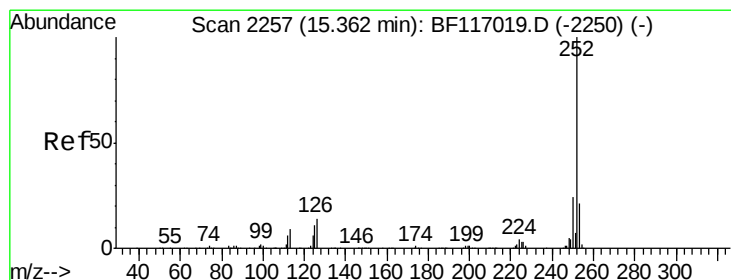
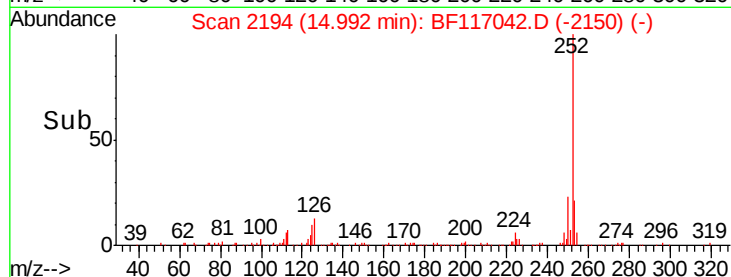
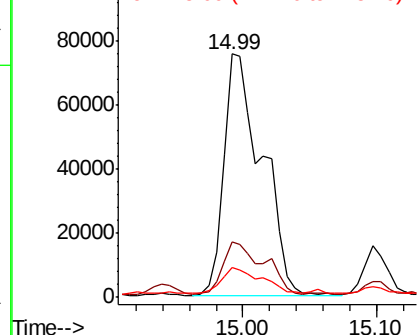
#89
Benzo(k)fluoranthene
Concen: 21.141 ng
RT: 14.99 min Scan# 2194
Delta R.T. -0.04 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 151444
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 12.5 8.8 13.2

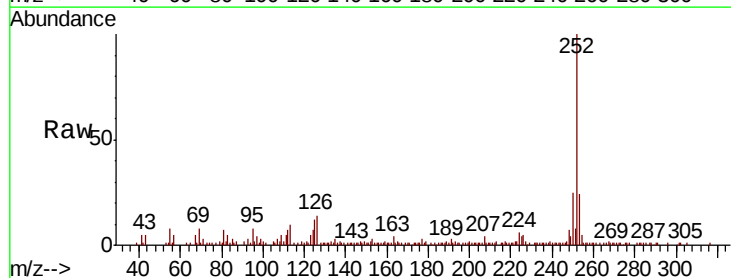


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

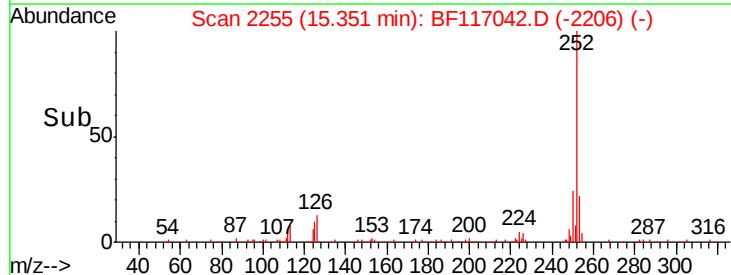
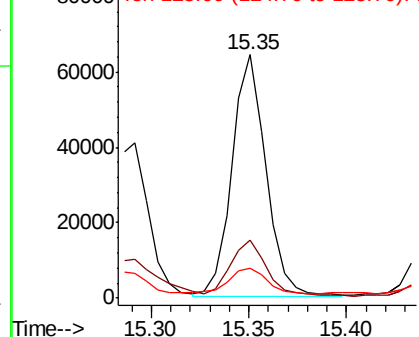


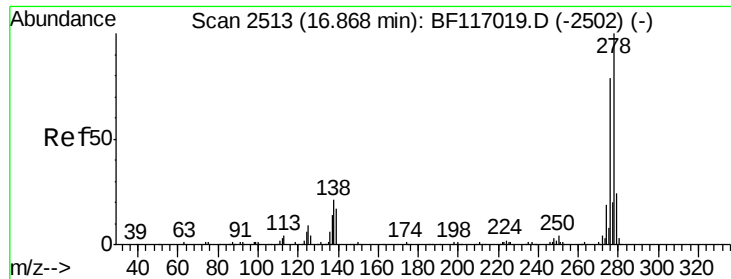
#90
Benzo(a)pyrene
Concen: 11.613 ng
RT: 15.35 min Scan# 2255
Delta R.T. -0.01 min
Lab File: BF117042.D
Acq: 14 Sep 2019 00:12

Tgt Ion:252 Resp: 77063
Ion Ratio Lower Upper
252 100
253 23.8 16.6 25.0
125 12.4 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





#91

Dibenzo(a,h)anthracene

Concen: 2.532 ng

RT: 16.85 min Scan# 2510

Delta R.T. -0.02 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

Instrument :

BNA_F

ClientSampleId :

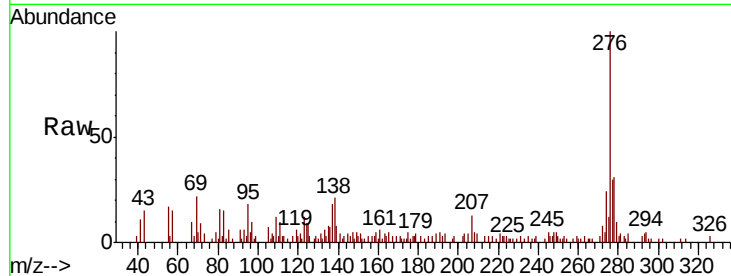
Tot Ion:278 Resp: 13388

Ion Ratio Lower Upper

278 100

139 25.3 13.5 20.3#

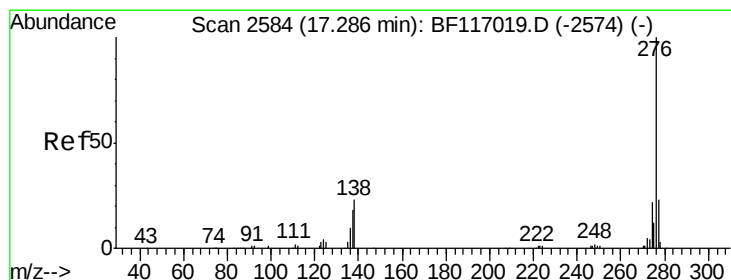
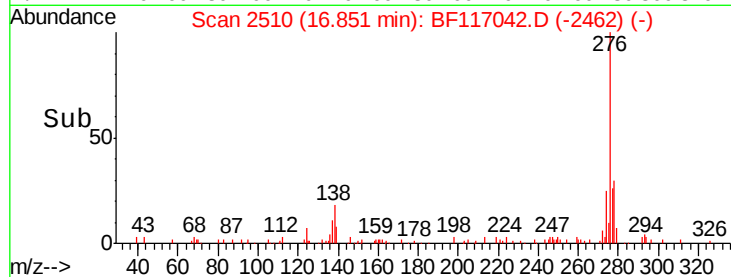
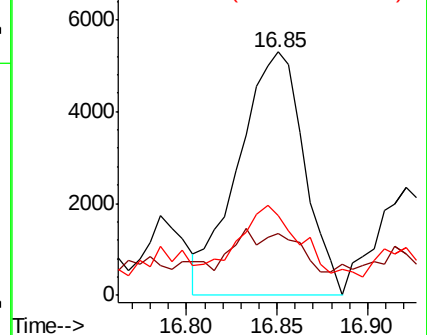
279 32.8 18.8 28.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 7.587 ng

RT: 17.27 min Scan# 2582

Delta R.T. -0.01 min

Lab File: BF117042.D

Acq: 14 Sep 2019 00:12

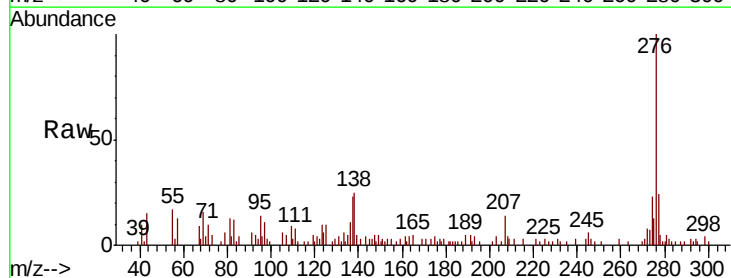
Tgt Ion:276 Resp: 39966

Ion Ratio Lower Upper

276 100

277 24.3 18.6 27.8

138 25.3 18.0 27.0



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

