

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090420\
 Data File : BP003217.D
 Acq On : 04 Sep 2020 18:24
 Operator : CG/JU
 Sample : L3877-14 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-3

Quant Time: Sep 05 00:56:18 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP082420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 01 14:37:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	305184	20.00	ng	0.00
21) Naphthalene-d8	10.43	136	1164759	20.00	ng	0.00
39) Acenaphthene-d10	14.30	164	639627	20.00	ng	0.00
64) Phenanthrene-d10	17.05	188	1093513	20.00	ng	0.00
76) Chrysene-d12	21.15	240	920346	20.00	ng	0.00
86) Perylene-d12	23.39	264	1075260	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	235146	13.62	ng	0.00
7) Phenol-d6	6.84	99	278895	12.89	ng	0.00
23) Nitrobenzene-d5	8.80	82	161259	9.98	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	98969	11.44	ng	0.00
45) 2-Fluorobiphenyl	12.91	172	424977	9.73	ng	0.00
79) Terphenyl-d14	19.62	244	380770	9.10	ng	0.00

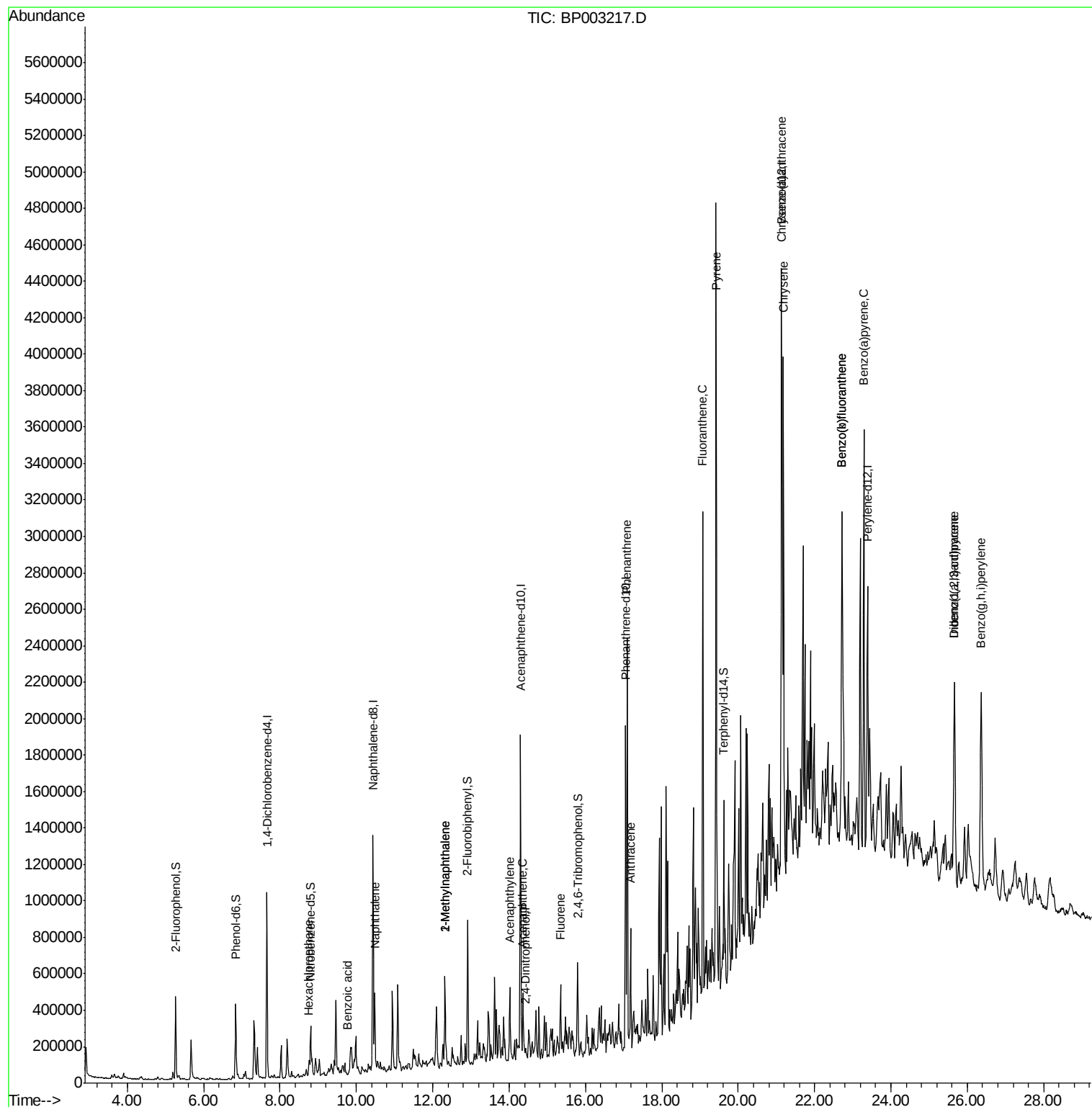
Target Compounds				Qvalue		
18) Hexachloroethane	8.76	117	16922	2.190	ng	# 9
31) Naphthalene	10.48	128	357639	5.976	ng	99
32) Benzoic acid	9.77	122	162	9.009	ng	# 1
37) 2-Methylnaphthalene	12.32	142	238236	5.565	ng	97
38) 1-Methylnaphthalene	12.32	142	238881	5.871	ng	# 98
49) Acenaphthylene	14.02	152	250551	4.219	ng	96
52) Acenaphthene	14.36	154	119403	3.273	ng	99
54) 2,4-Dinitrophenol	14.44	184	104	7.772	ng	# 1
58) Fluorene	15.35	166	154738	3.506	ng	97
71) Phenanthrene	17.09	178	1424802	24.046	ng	100
72) Anthracene	17.18	178	414651	7.312	ng	99
75) Fluoranthene	19.07	202	1493858	21.813	ng	99
78) Pylene	19.42	202	2738096	45.839	ng	99
81) Benzo(a)anthracene	21.13	228	1458337	25.297	ng	94
83) Chrysene	21.18	228	1677410	30.390	ng	97
87) Indeno(1,2,3-cd)pyrene	25.66	276	1050386	13.099	ng	96
88) Benzo(b)fluoranthene	22.72	252	2146304	32.115	ng	96
89) Benzo(k)fluoranthene	22.72	252	2146304	33.613	ng	97
90) Benzo(a)pyrene	23.29	252	1746298	28.166	ng	98
91) Dibenzo(a,h)anthracene	25.66	278	355950	5.404	ng	# 83
92) Benzo(g,h,i)perylene	26.36	276	1384138	20.938	ng	98

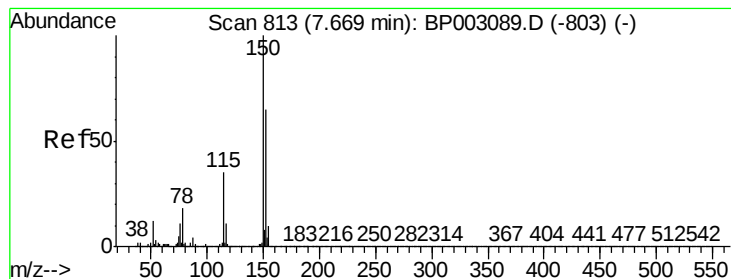
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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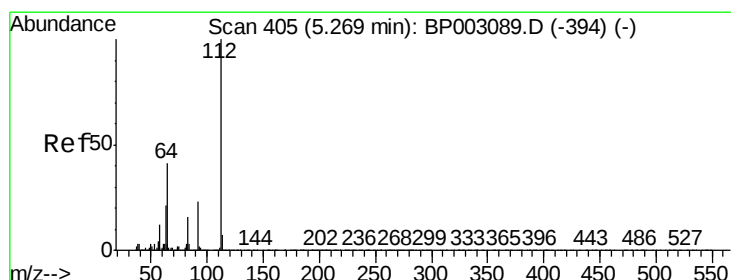
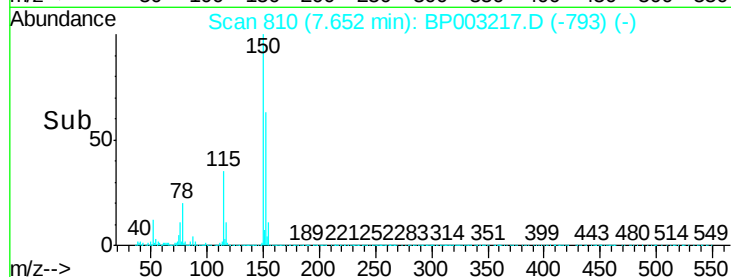
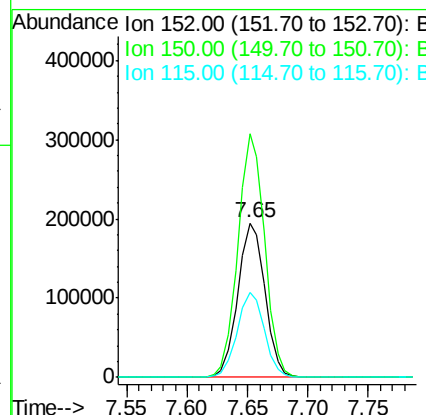
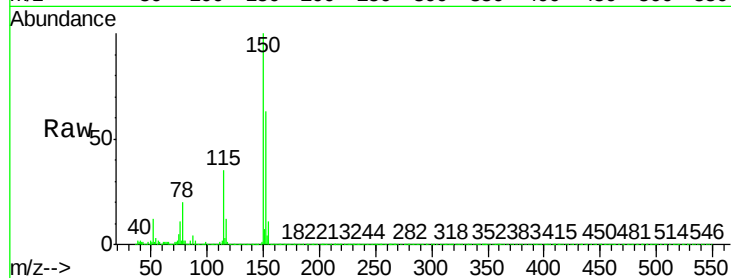


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.65 min Scan# 810
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Instrument :
BNA_P
ClientSampleId :
TP-3

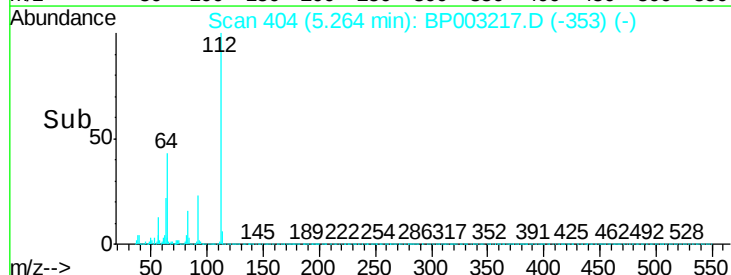
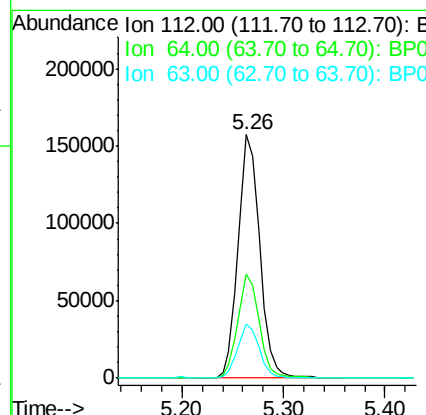
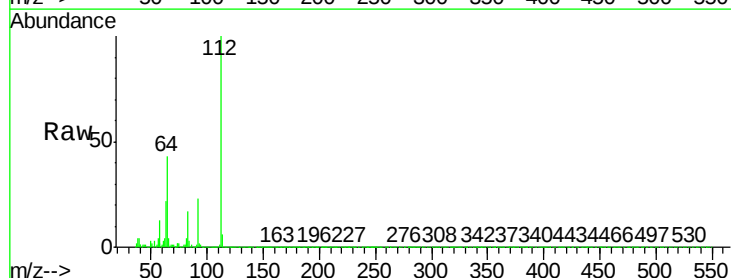
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	123.8	185.6
115	55.3	43.8	65.6



#5

2-Fluorophenol
Concen: 13.623 ng
RT: 5.26 min Scan# 404
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.8	32.8	49.2
63	22.3	17.0	25.4





#7

Phenol-d6

Concen: 12.889 ng

RT: 6.84 min Scan# 672

Delta R.T. 0.01 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

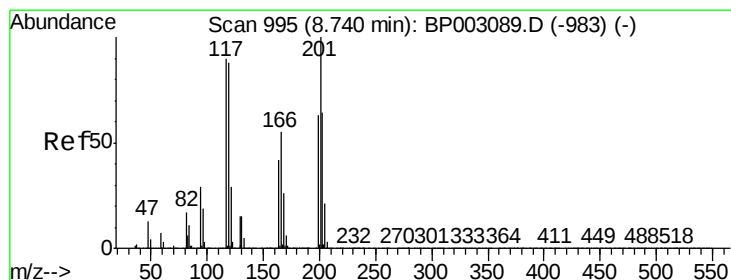
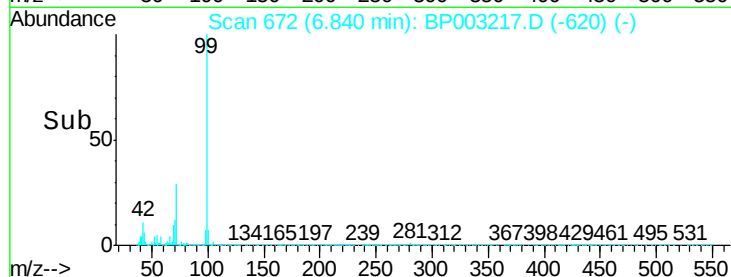
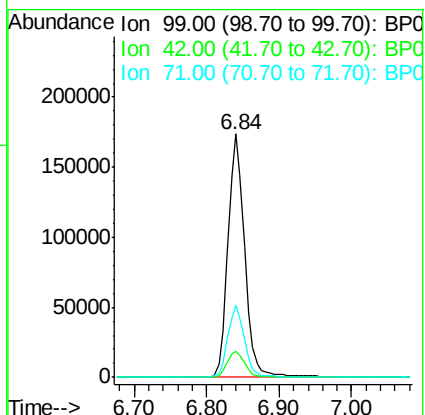
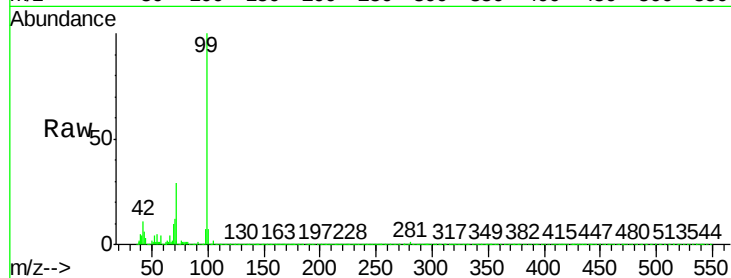
Tot Ion: 99 Resp: 278895

Ion Ratio Lower Upper

99 100

42 10.8 8.6 13.0

71 29.4 23.4 35.2



#18

Hexachloroethane

Concen: 2.190 ng

RT: 8.76 min Scan# 998

Delta R.T. 0.03 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

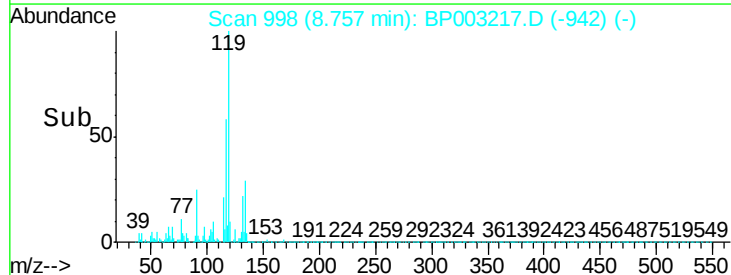
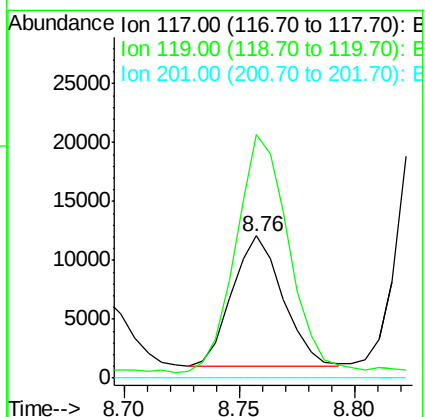
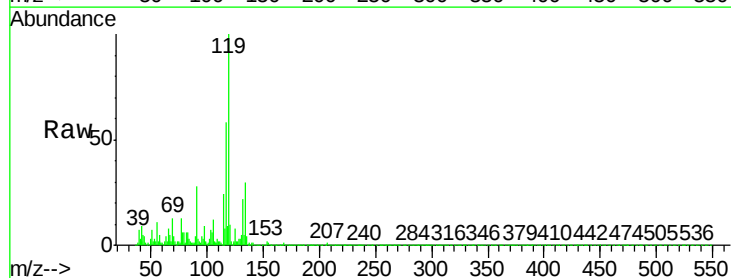
Tgt Ion: 117 Resp: 16922

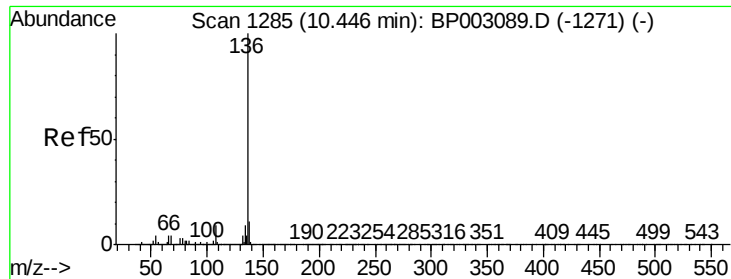
Ion Ratio Lower Upper

117 100

119 170.9 78.8 118.2#

201 0.3 92.3 138.5#

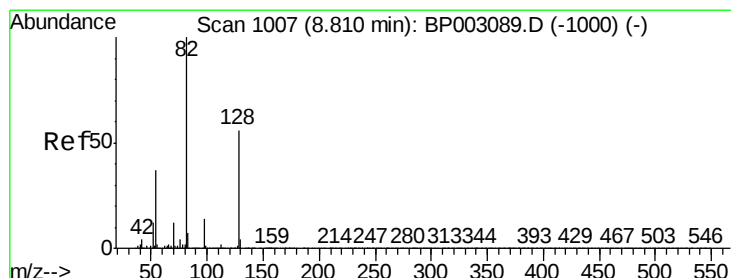
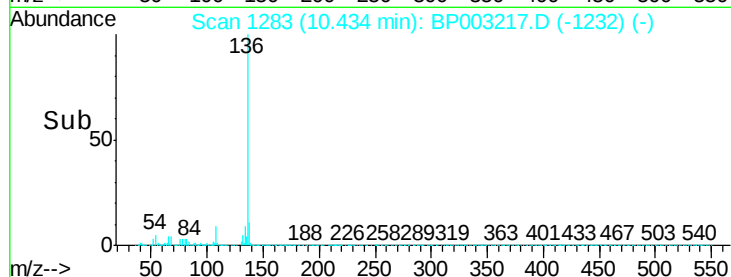
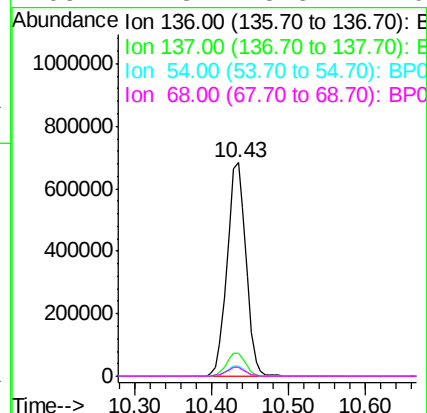
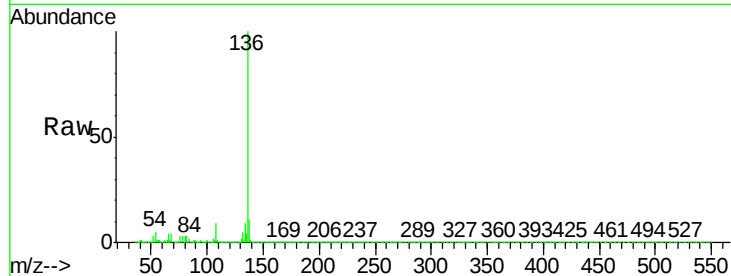




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.43 min Scan# 1283
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

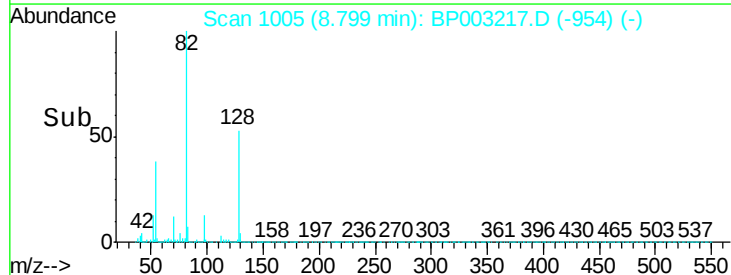
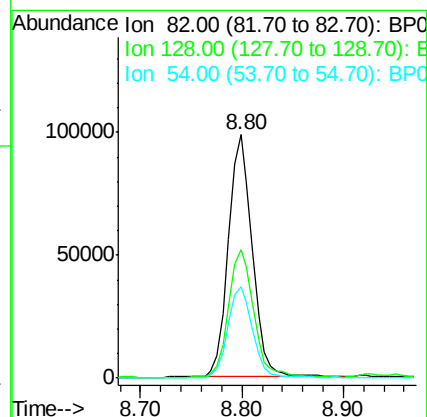
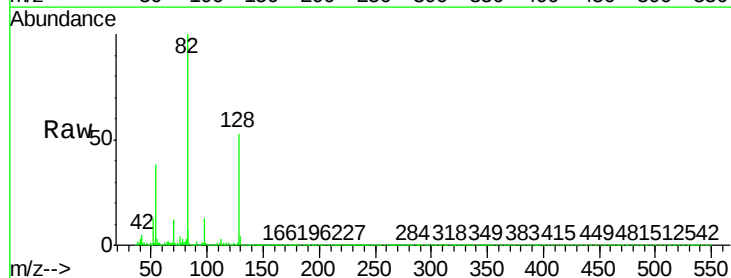
Instrument :
BNA_P
ClientSampled :
TP-3

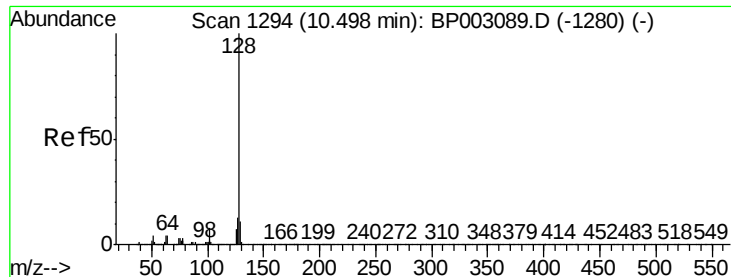
Tot Ion:136	Resp: 1164759
Ion Ratio	Lower Upper
136 100	
137 10.8	8.6 13.0
54 4.6	3.6 5.4
68 4.3	3.3 4.9



#23
Nitrobenzene-d5
Concen: 9.981 ng
RT: 8.80 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion	82	Resp: Lower	161259 Upper
	Ratio 100		
128	52.5	45.6	68.4
54	37.5	30.1	45.1

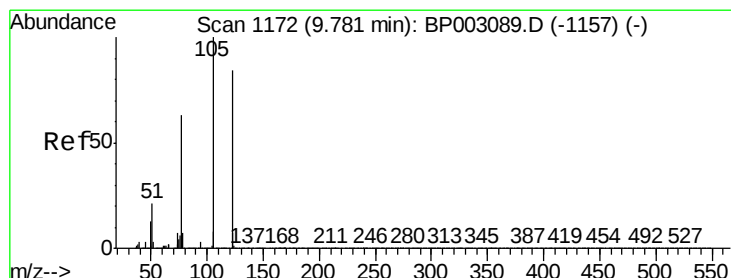
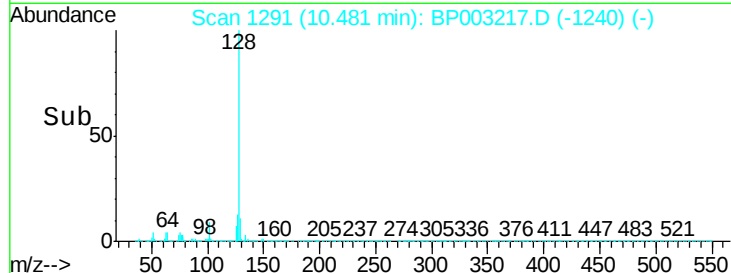
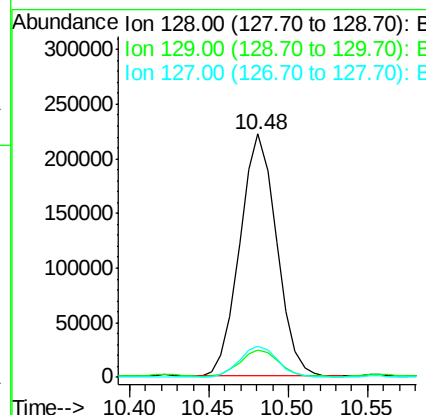
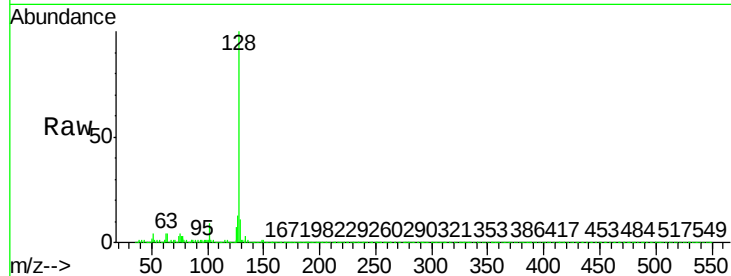




#31
Naphthalene
Concen: 5.976 ng
RT: 10.48 min Scan# 1291
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

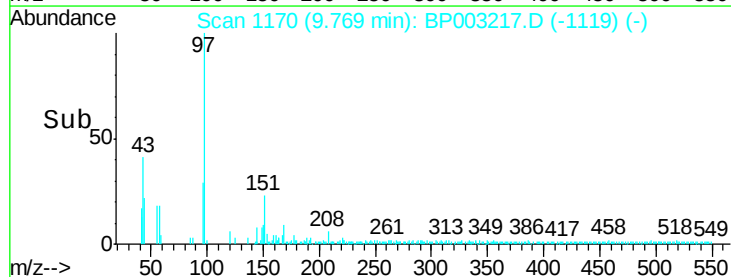
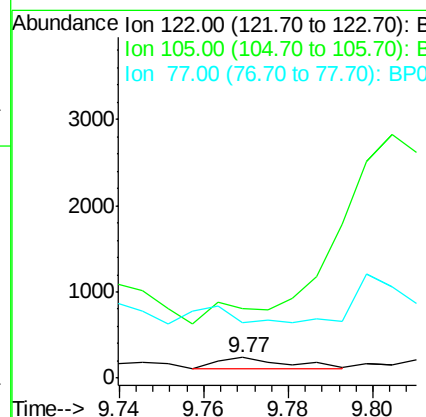
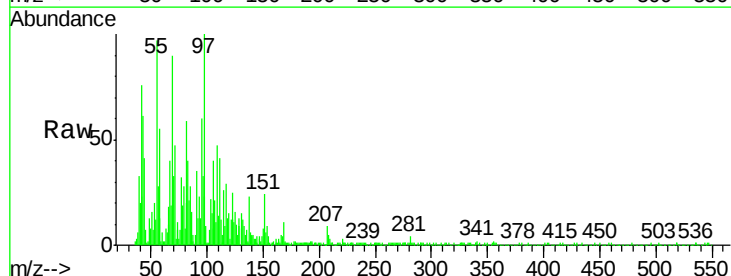
Instrument :
BNA_P
ClientSampleId :
TP-3

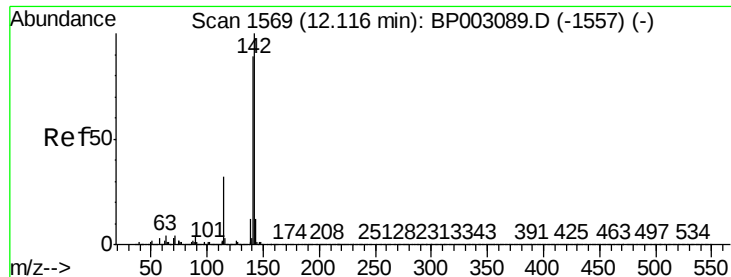
Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	12.8	10.6	15.8



#32
Benzoic acid
Concen: 9.009 ng
RT: 9.77 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion	Ratio	Lower	Upper
122	100		
105	338.1	94.1	134.1#
77	272.0	50.1	90.1#





#37

2-Methylnaphthalene

Concen: 5.565 ng

RT: 12.32 min Scan# 1604

Delta R.T. 0.22 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

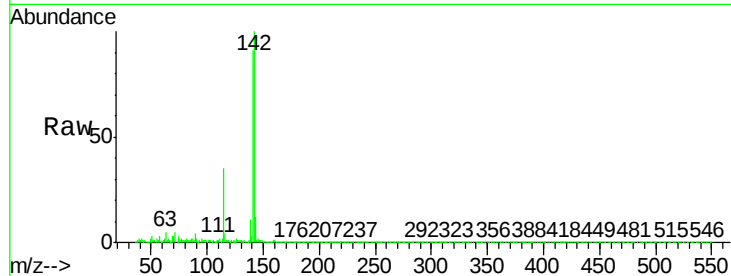
Tot Ion:142 Resp: 238236

Ion Ratio Lower Upper

142 100

141 91.1 71.4 107.2

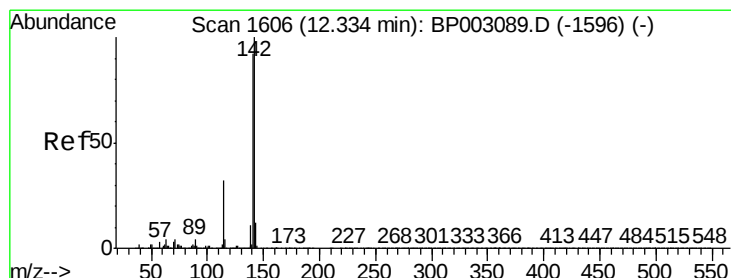
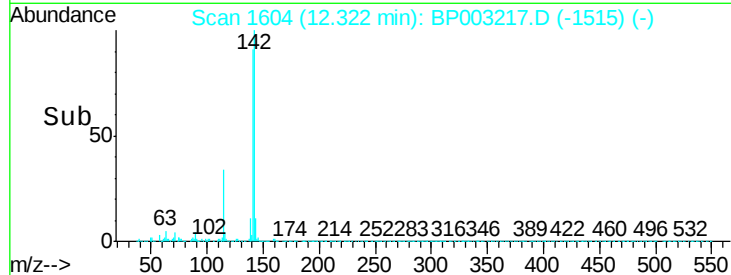
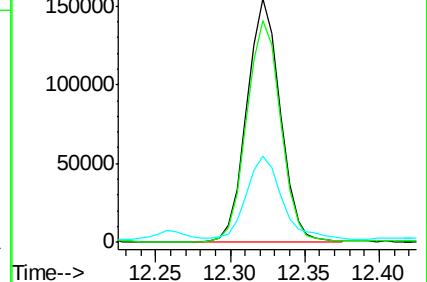
115 35.4 25.8 38.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 5.871 ng

RT: 12.32 min Scan# 1604

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

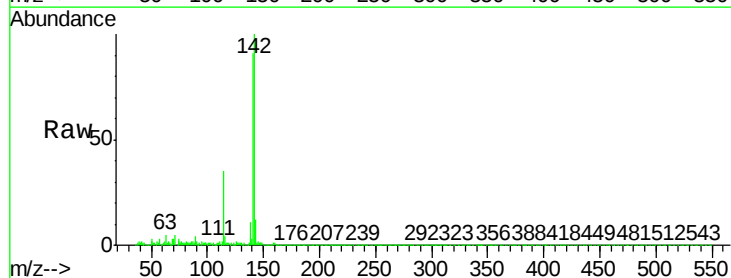
Tgt Ion:142 Resp: 238881

Ion Ratio Lower Upper

142 100

141 91.1 74.4 111.6

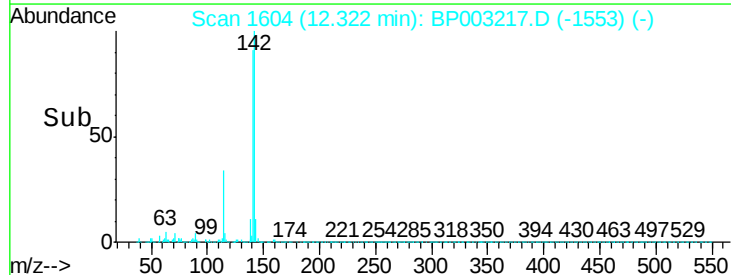
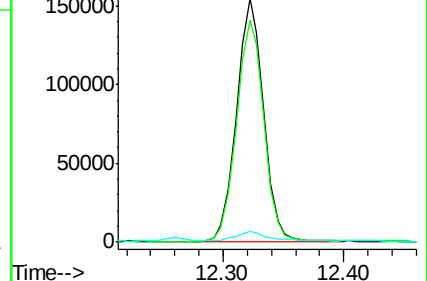
116 4.4 2.9 4.3#

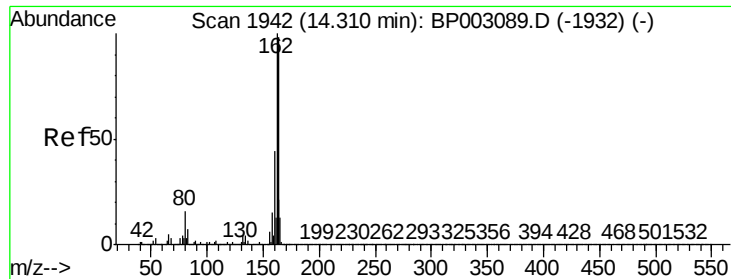


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.30 min Scan# 1940

Delta R.T. 0.01 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

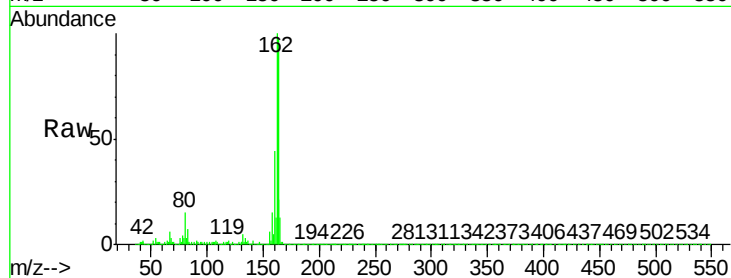
Tot Ion:164 Resp: 639627

Ion	Ratio	Lower	Upper
164	100		
162	102.6	79.4	119.2
160	45.2	36.1	54.1

164 100

162 102.6 79.4 119.2

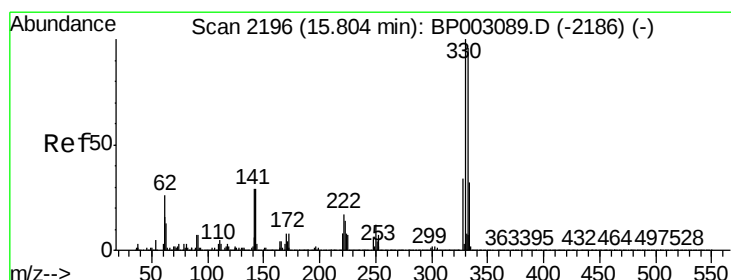
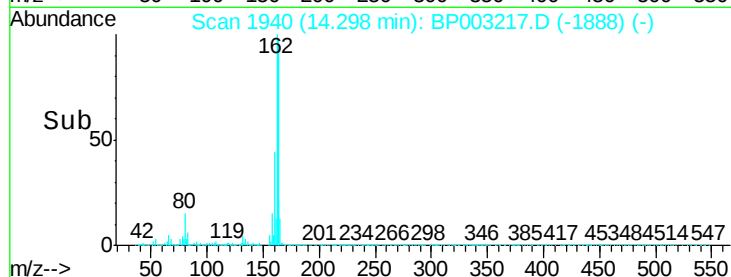
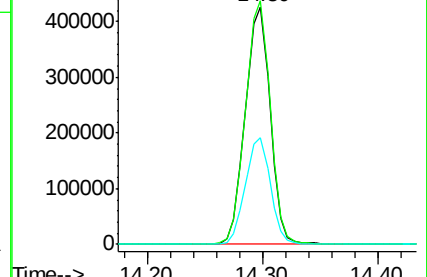
160 45.2 36.1 54.1



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: 11.440 ng

RT: 15.79 min Scan# 2194

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

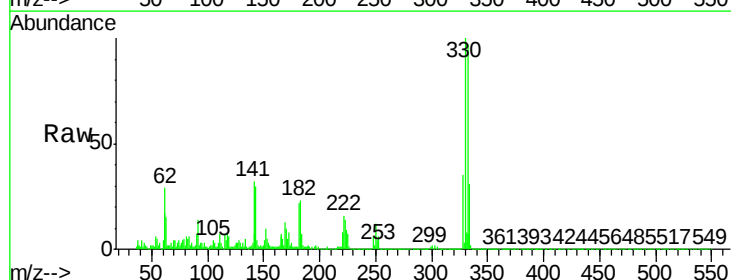
Tgt Ion:330 Resp: 98969

Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.1	115.7
141	34.0	23.4	35.2

330 100

332 95.8 77.1 115.7

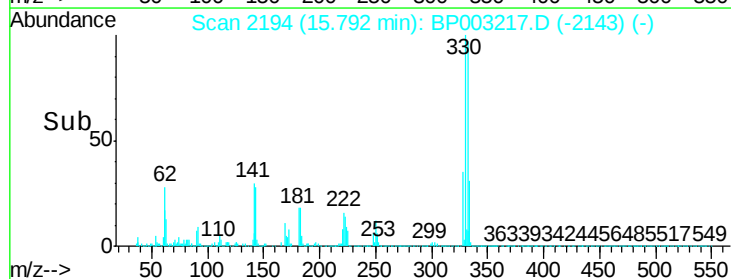
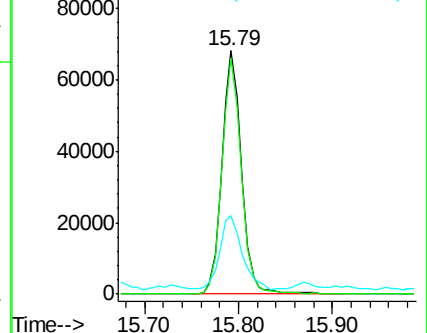
141 34.0 23.4 35.2

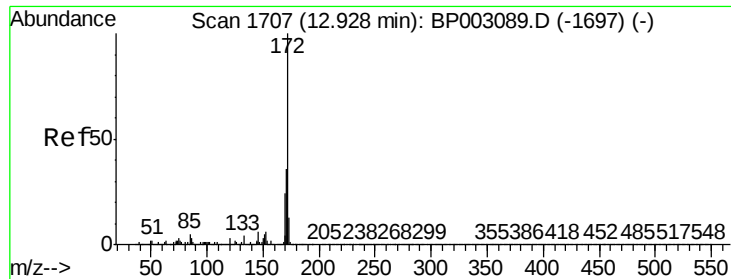


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

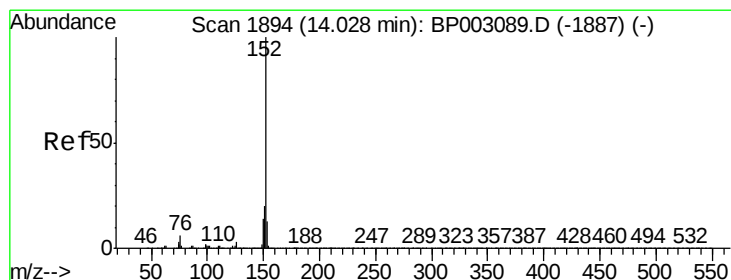
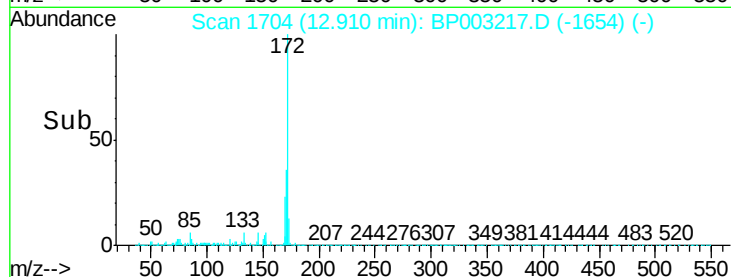
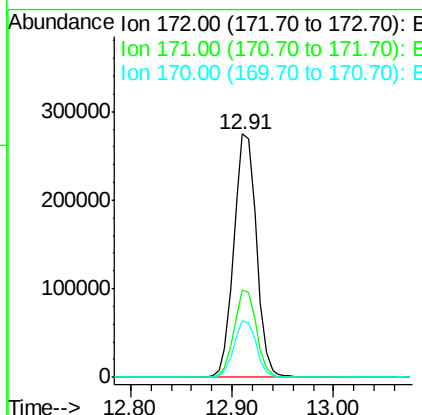
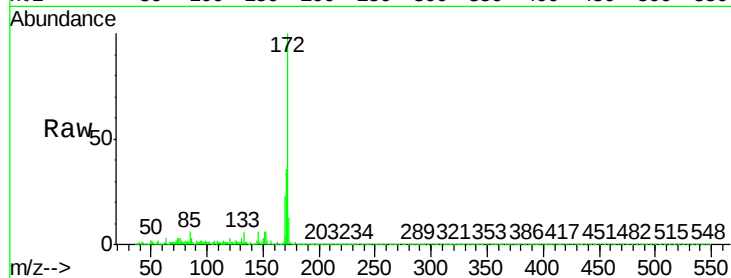




#45
2-Fluorobiphenyl
Concen: 9.730 ng
RT: 12.91 min Scan# 1704
Delta R.T. -0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

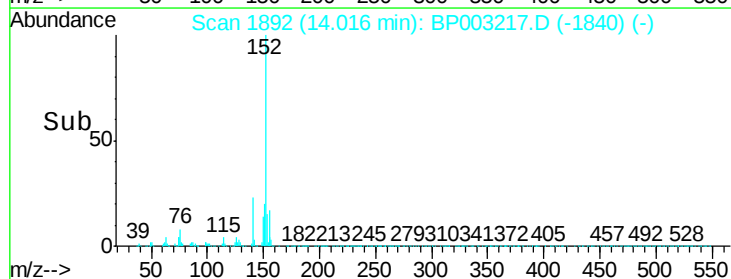
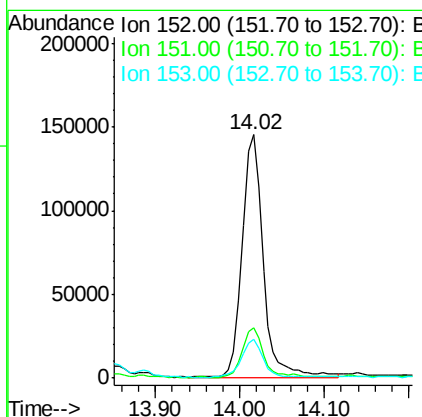
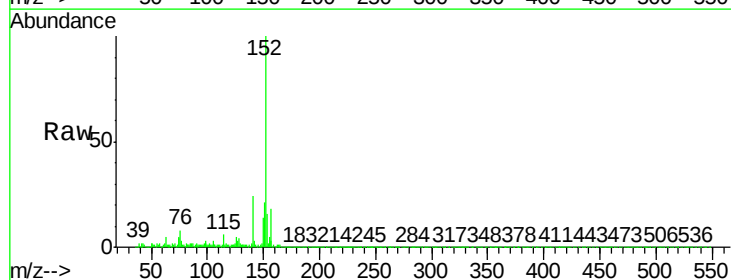
Instrument :
BNA_P
ClientSampleId :
TP-3

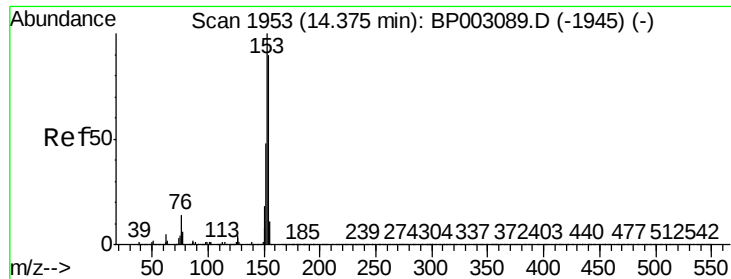
Tot Ion:172 Resp: 424977
Ion Ratio Lower Upper
172 100
171 36.1 28.5 42.7
170 23.2 19.2 28.8



#49
Acenaphthylene
Concen: 4.219 ng
RT: 14.02 min Scan# 1892
Delta R.T. 0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion:152 Resp: 250551
Ion Ratio Lower Upper
152 100
151 20.6 15.9 23.9
153 15.7 10.5 15.7





#52

Acenaphthene

Concen: 3.273 ng

RT: 14.36 min Scan# 1950

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

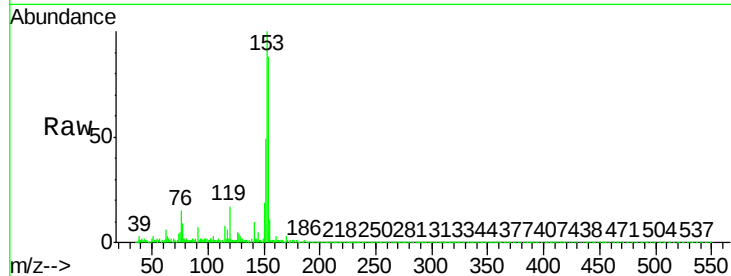
Tot Ion:154 Resp: 119403

Ion Ratio Lower Upper

154 100

153 113.3 91.0 136.6

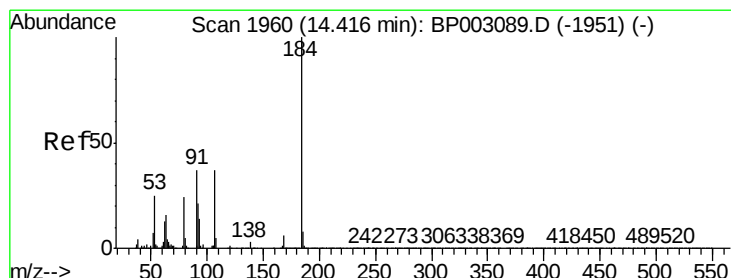
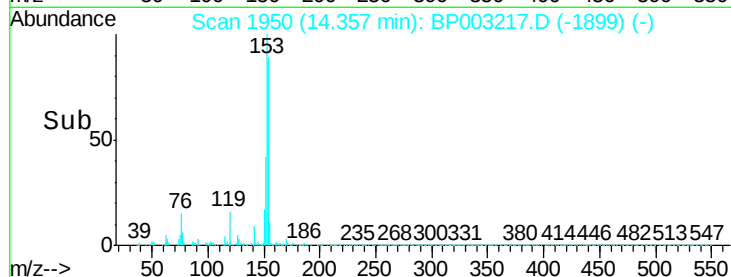
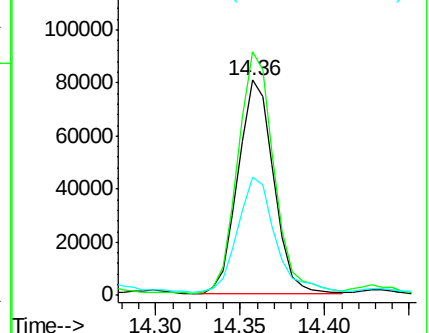
152 55.3 43.0 64.6



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



#54

2,4-Dinitrophenol

Concen: 7.772 ng

RT: 14.44 min Scan# 1964

Delta R.T. 0.04 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

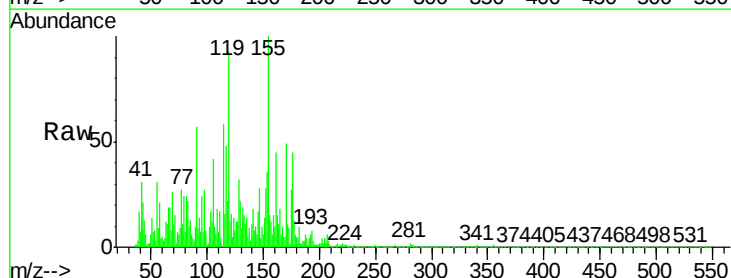
Tgt Ion:184 Resp: 104

Ion Ratio Lower Upper

184 100

63 714.4 32.3 48.5#

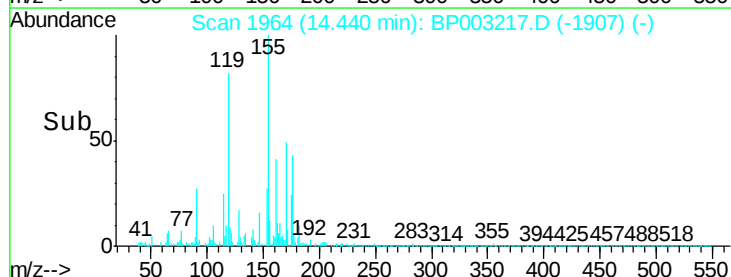
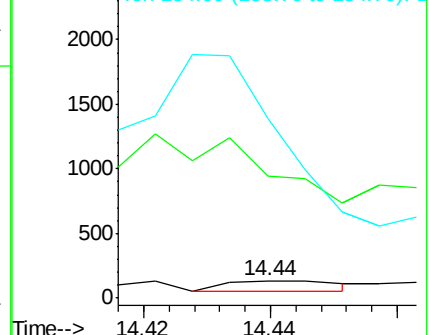
154 1050.8 49.1 73.7#

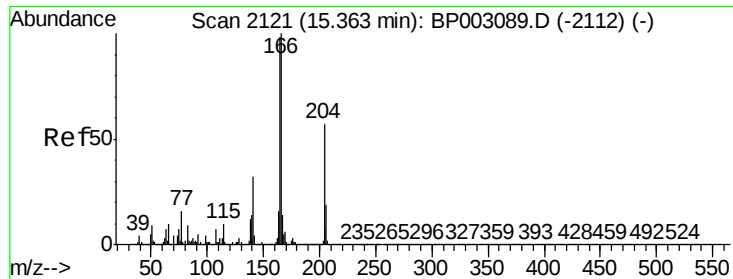


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E

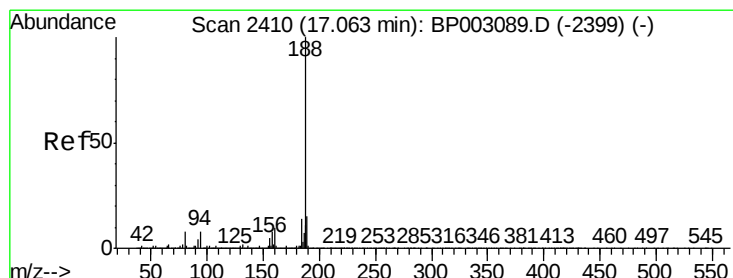
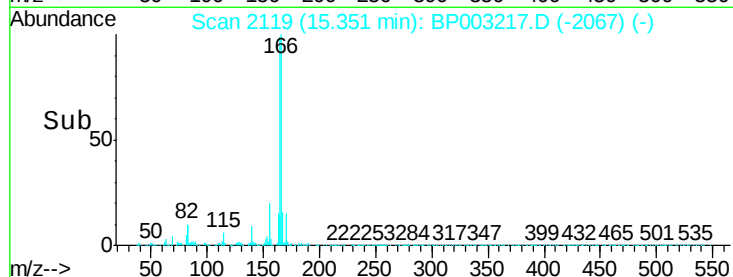
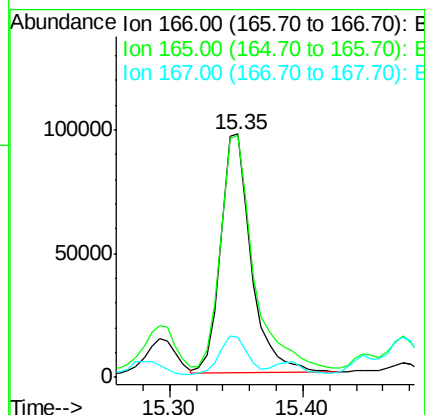
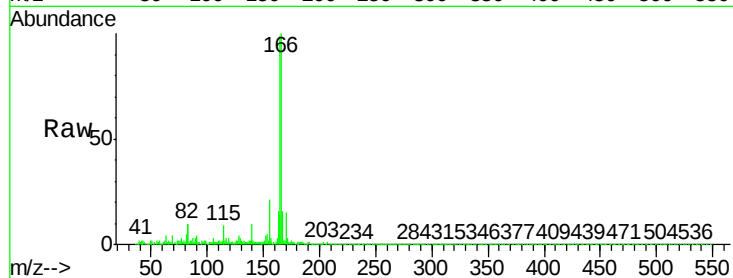




#58
 Fluorene
 Concen: 3.506 ng
 RT: 15.35 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: BP003217.D
 Acq: 04 Sep 2020 18:24

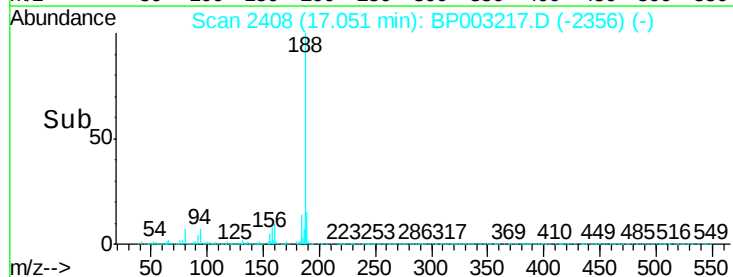
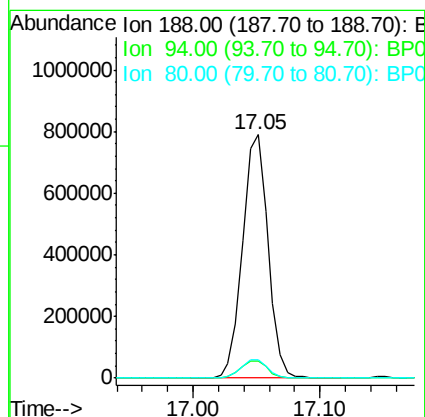
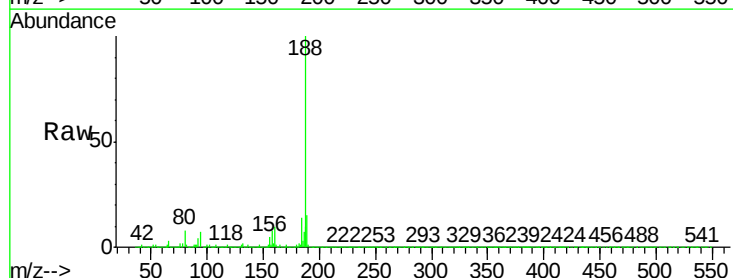
Instrument :
 BNA_P
 ClientSampled :
 TP-3

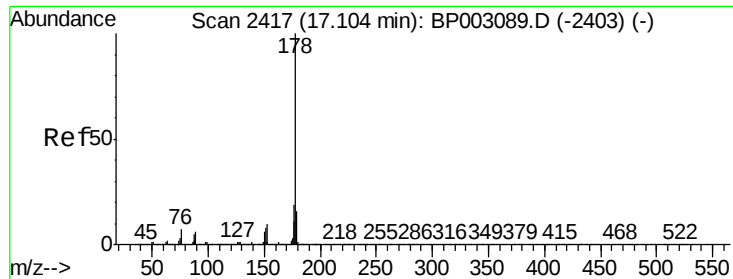
Tot Ion:166 Resp: 154738
 Ion Ratio Lower Upper
 166 100
 165 99.4 77.8 116.8
 167 16.3 11.0 16.4



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.05 min Scan# 2408
 Delta R.T. 0.01 min
 Lab File: BP003217.D
 Acq: 04 Sep 2020 18:24

Tgt Ion:188 Resp: 1093513
 Ion Ratio Lower Upper
 188 100
 94 7.2 6.2 9.2
 80 7.5 6.2 9.2





#71

Phenanthrene

Concen: 24.046 ng

RT: 17.09 min Scan# 2415

Delta R.T. 0.01 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampled :

TP-3

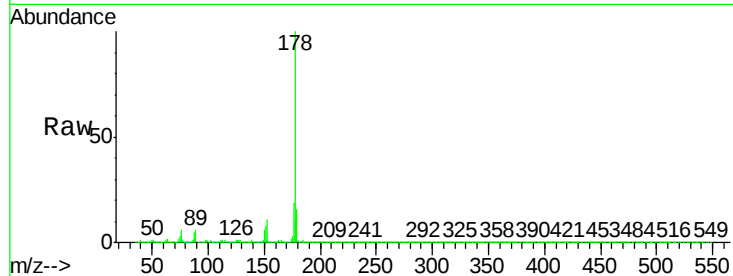
Tot Ion:178 Resp: 1424802

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

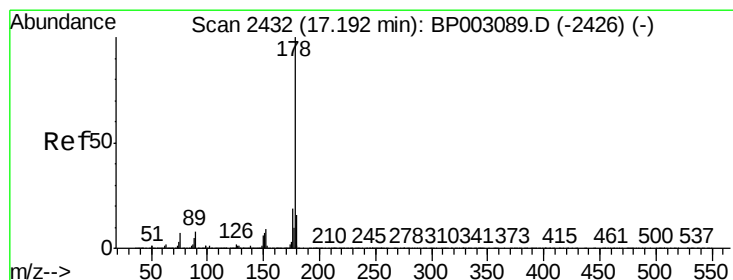
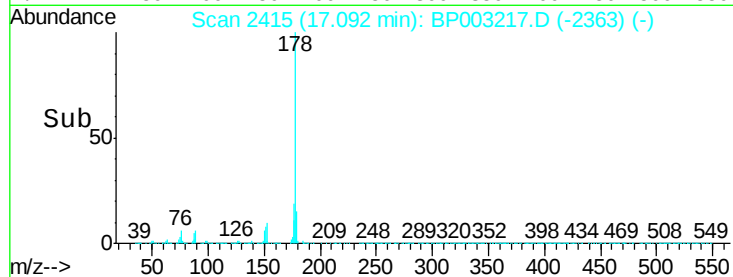
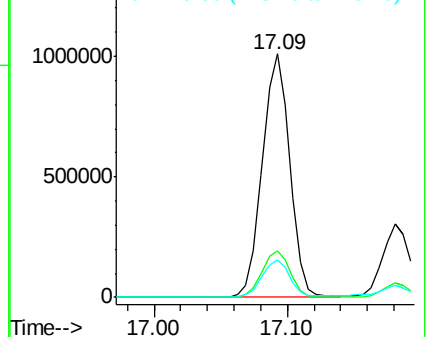
179 15.6 12.5 18.7



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: 7.312 ng

RT: 17.18 min Scan# 2430

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

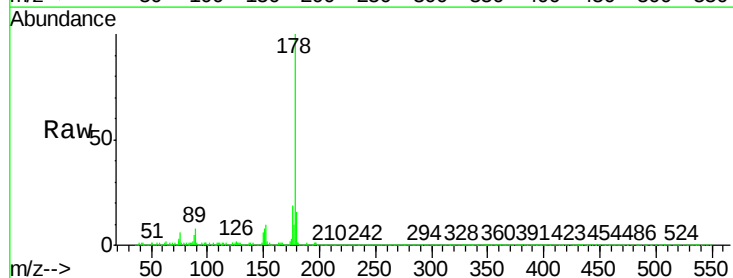
Tgt Ion:178 Resp: 414651

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

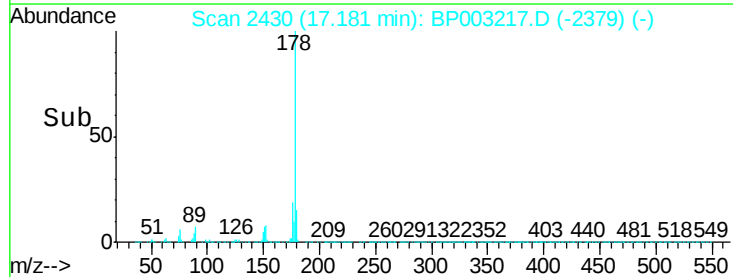
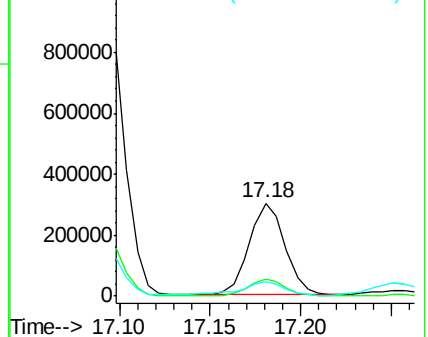
179 15.8 12.5 18.7

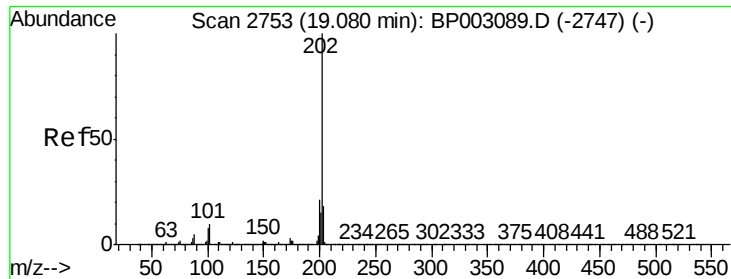


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 21.813 ng

RT: 19.07 min Scan# 2751

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

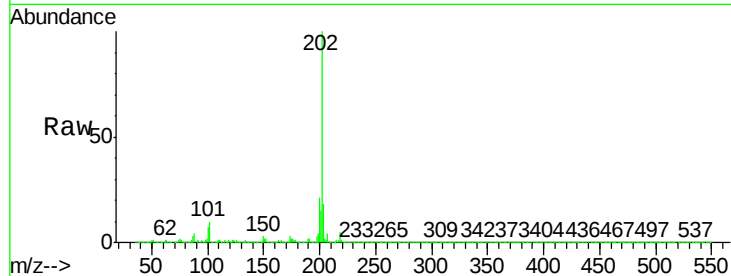
Tot Ion:202 Resp: 1493858

Ion Ratio Lower Upper

202 100

101 9.7 0.0 29.4

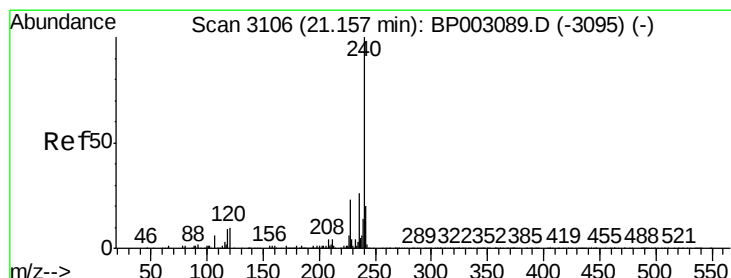
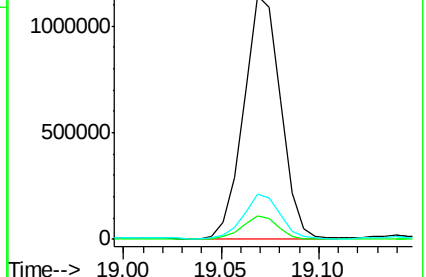
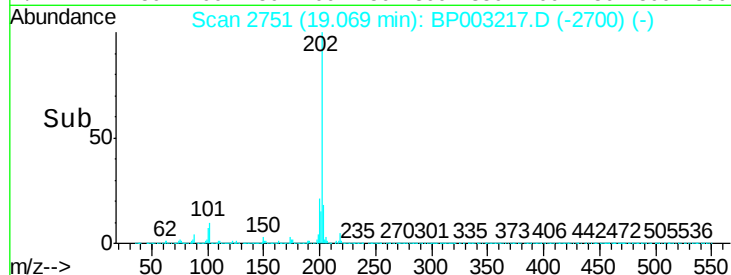
203 18.5 0.0 37.8



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: 21.15 min Scan# 3104

Delta R.T. -0.00 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

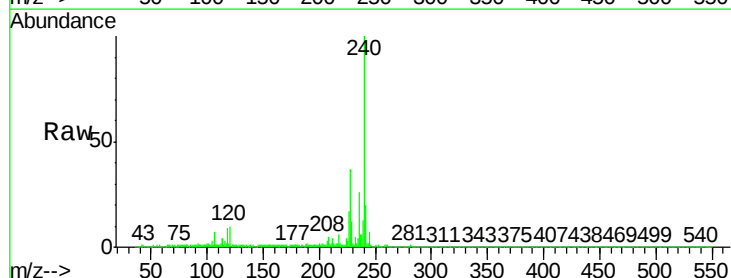
Tgt Ion:240 Resp: 920346

Ion Ratio Lower Upper

240 100

120 10.1 7.8 11.6

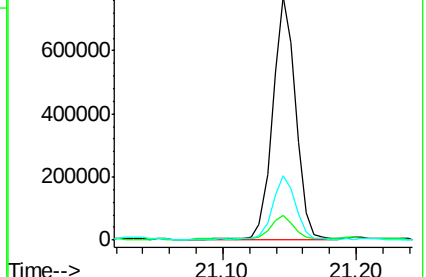
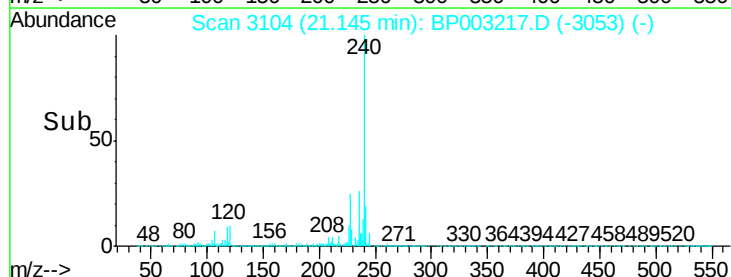
236 26.3 20.8 31.2

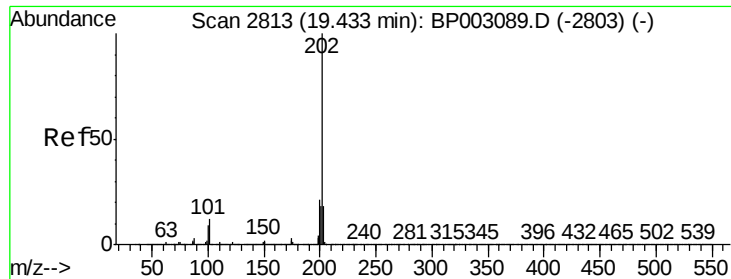


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

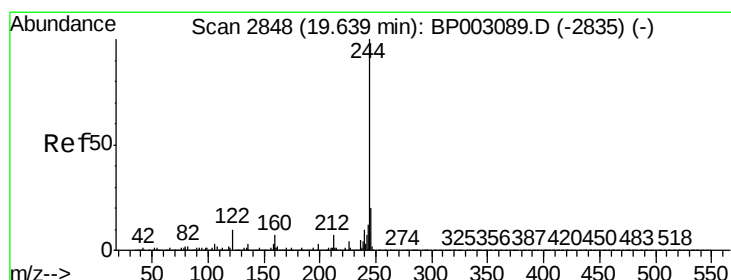
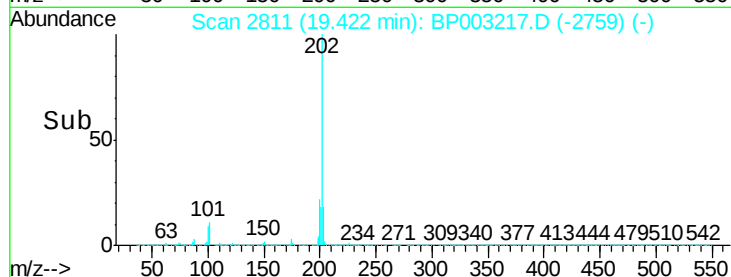
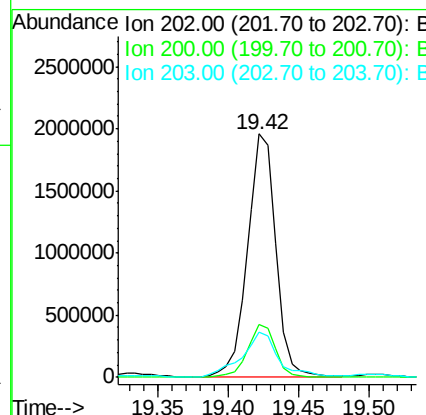
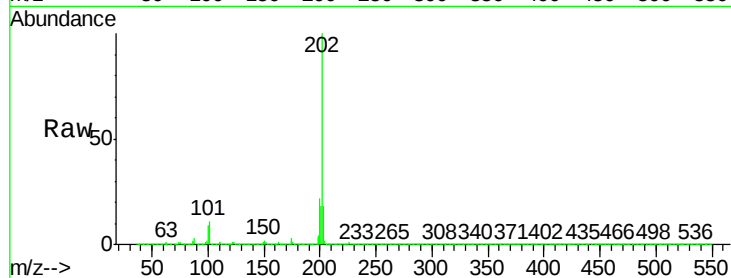




#78
Pvrene
Concen: 45.839 ng
RT: 19.42 min Scan# 2811
Delta R.T. 0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

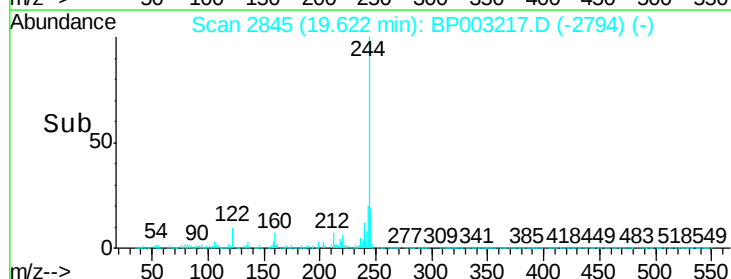
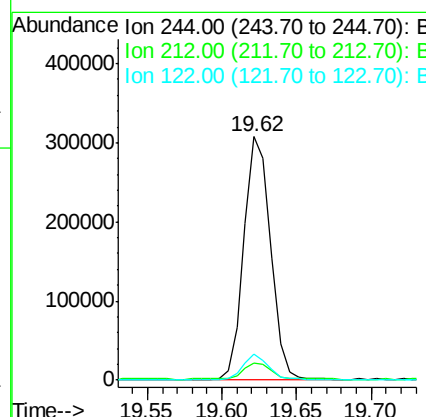
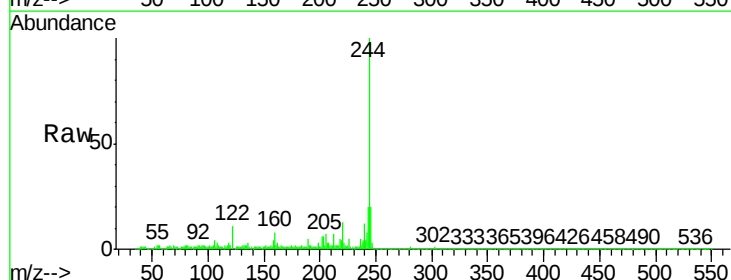
Instrument :
BNA_P
ClientSampleId :
TP-3

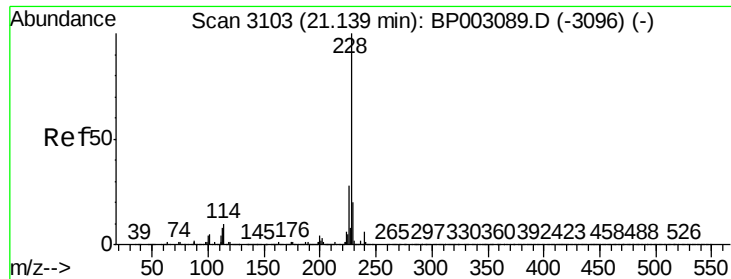
Tot Ion:202 Resp: 2738096
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 18.5 14.2 21.2



#79
Terphenyl-d14
Concen: 9.104 ng
RT: 19.62 min Scan# 2845
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion:244 Resp: 380770
Ion Ratio Lower Upper
244 100
212 7.3 5.8 8.6
122 10.7 7.8 11.8

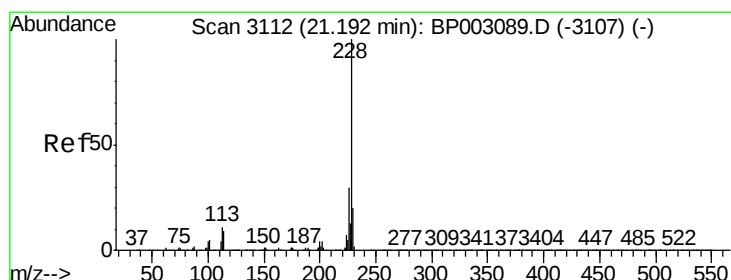
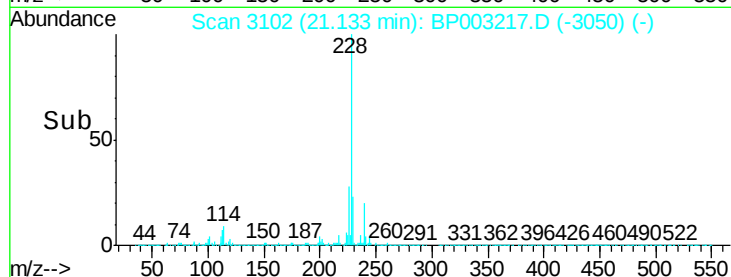
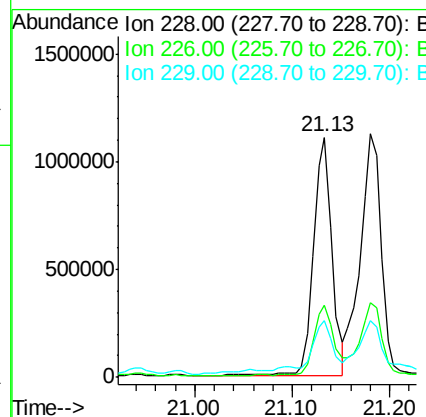
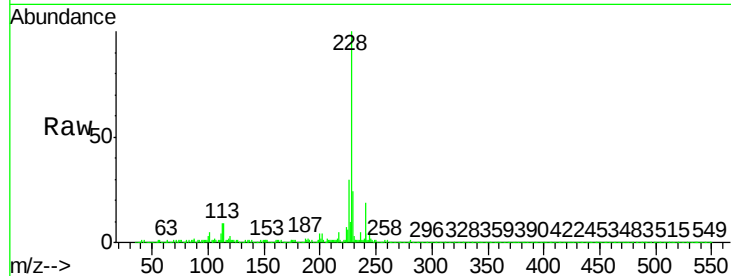




#81
Benzo(a)anthracene
Concen: 25.297 ng
RT: 21.13 min Scan# 3102
Delta R.T. 0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

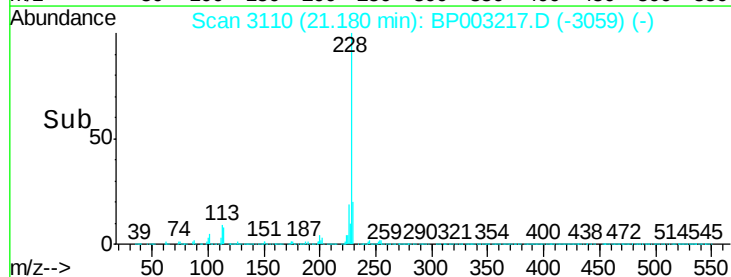
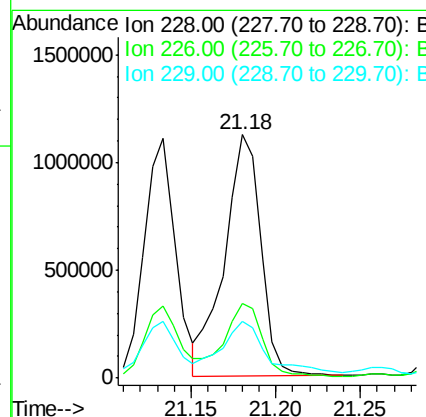
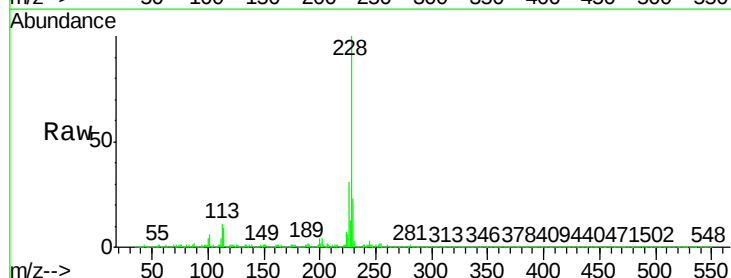
Instrument :
BNA_P
ClientSampleId :
TP-3

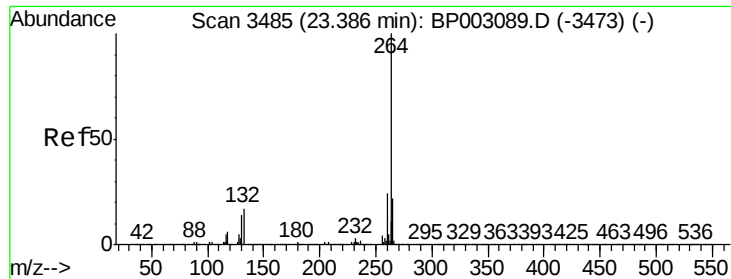
Tot Ion:228 Resp: 1458337
Ion Ratio Lower Upper
228 100
226 30.2 22.1 33.1
229 23.7 15.9 23.9



#83
Chrysene
Concen: 30.390 ng
RT: 21.18 min Scan# 3110
Delta R.T. -0.00 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion:228 Resp: 1677410
Ion Ratio Lower Upper
228 100
226 30.9 24.4 36.6
229 23.3 15.8 23.6



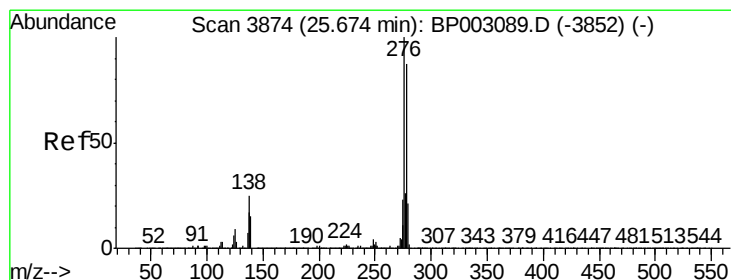
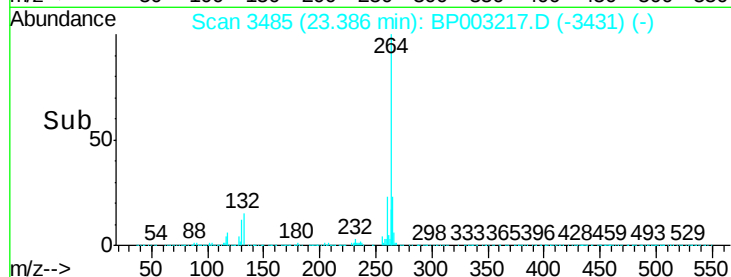
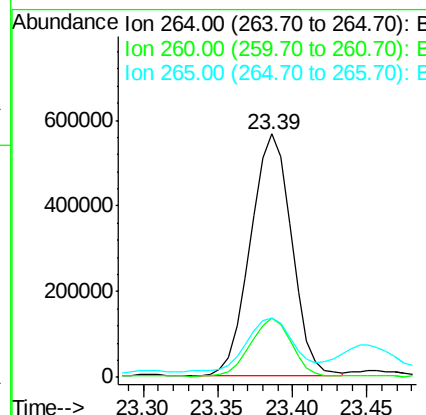
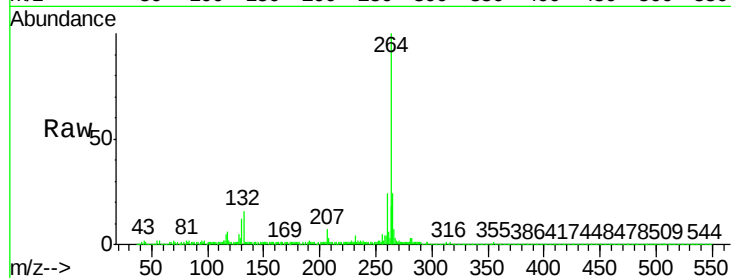


#86
Pervlene-d12
Concen: 20.000 ng
RT: 23.39 min Scan# 3485
Delta R.T. 0.02 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Instrument :
BNA_P
ClientSampleId :
TP-3

Tot Ion:264 Resp: 1075260

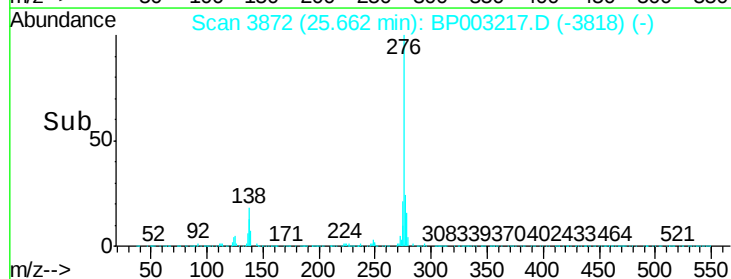
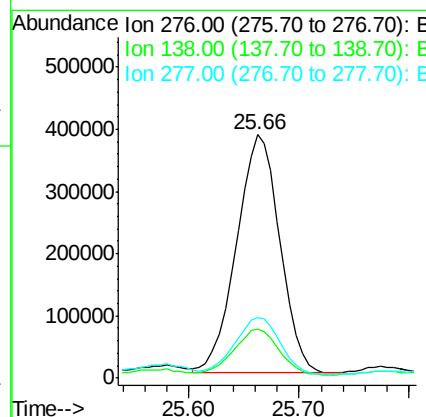
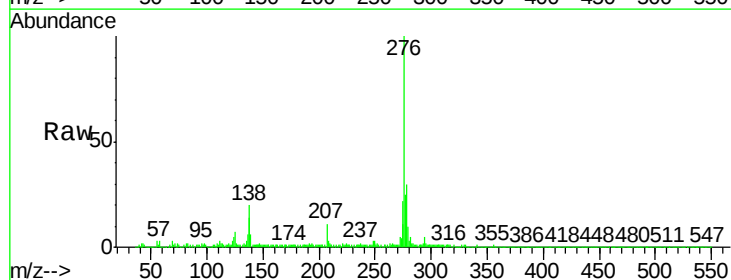
Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.8	28.2
265	24.5	17.4	26.2

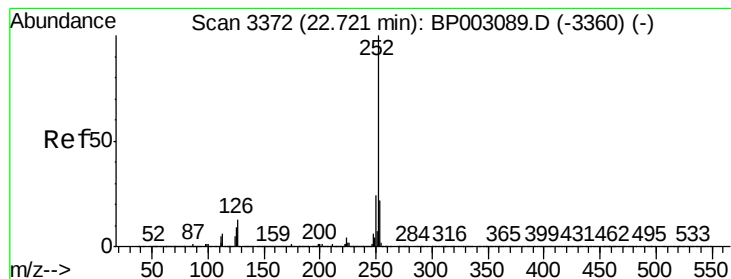


#87
Indeno(1,2,3-cd)pyrene
Concen: 13.099 ng
RT: 25.66 min Scan# 3872
Delta R.T. 0.02 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion:276 Resp: 1050386

Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.7	28.1
277	25.2	20.4	30.6





#88

Benzo(b)fluoranthene

Concen: 32.115 ng

RT: 22.72 min Scan# 3371

Delta R.T. 0.01 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

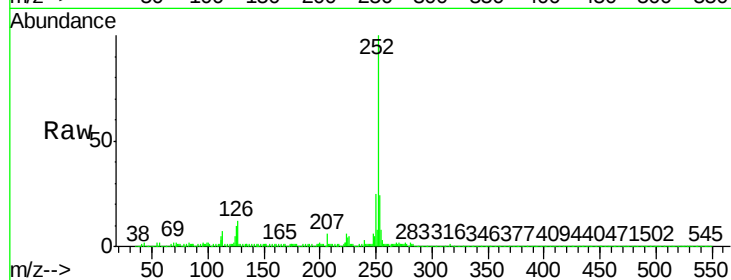
Tot Ion:252 Resp: 2146304

Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

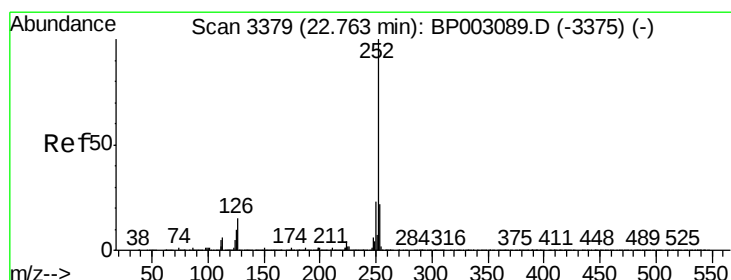
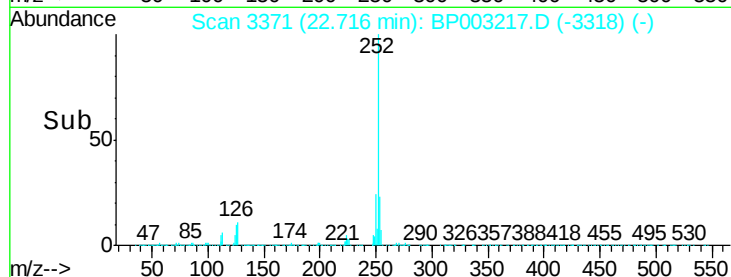
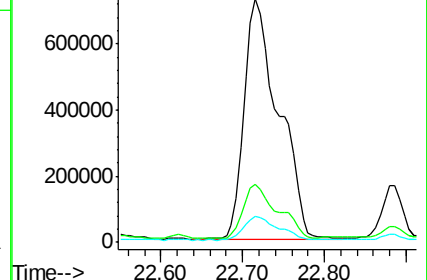
125 10.5 7.3 10.9



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: 33.613 ng

RT: 22.72 min Scan# 3371

Delta R.T. -0.03 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

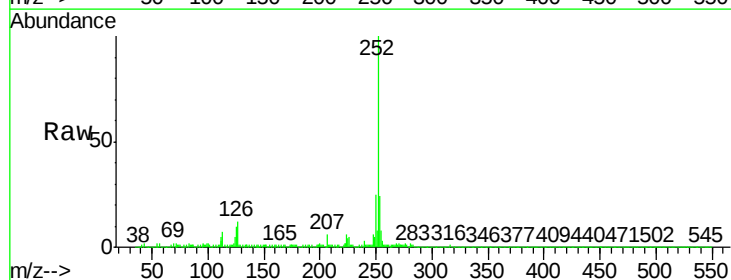
Tgt Ion:252 Resp: 2146304

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.8

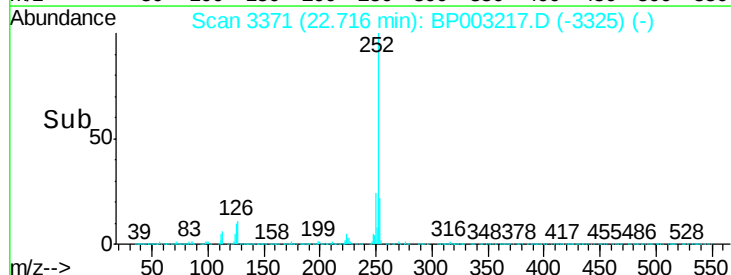
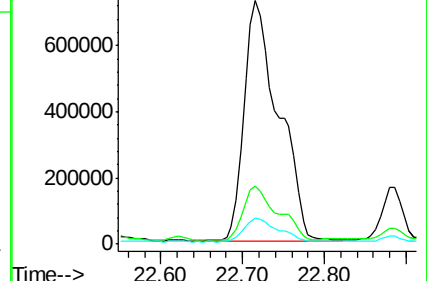
125 10.5 7.4 11.2

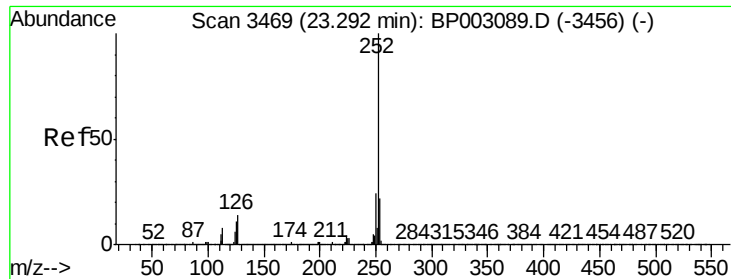


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

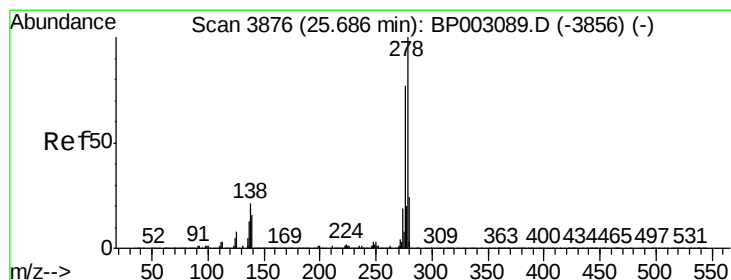
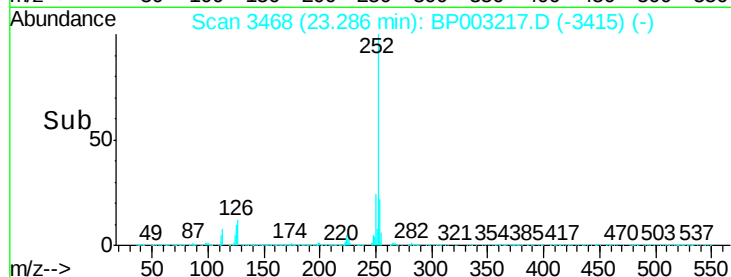
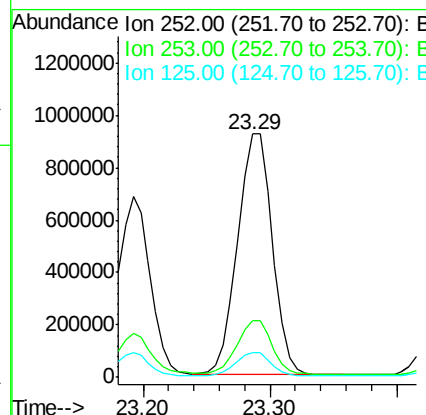
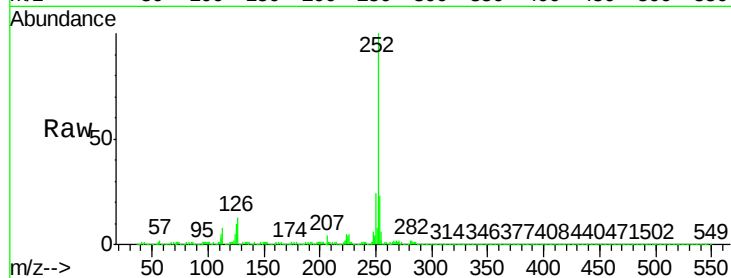




#90
Benzo(a)pyrene
Concen: 28.166 ng
RT: 23.29 min Scan# 3468
Delta R.T. 0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

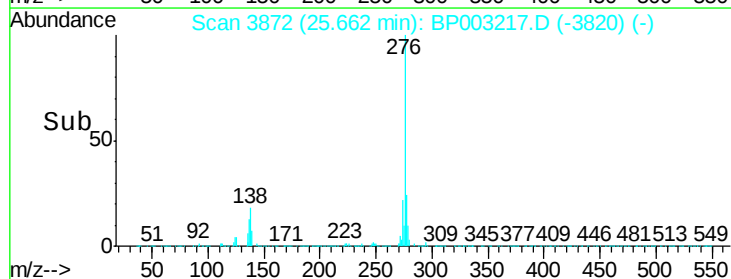
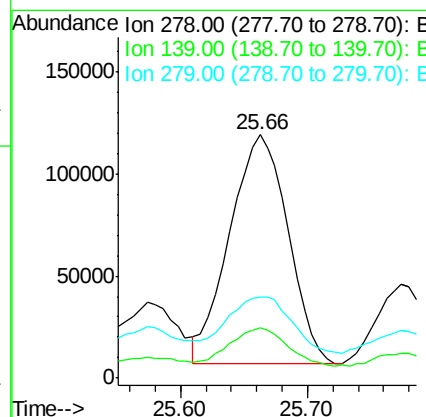
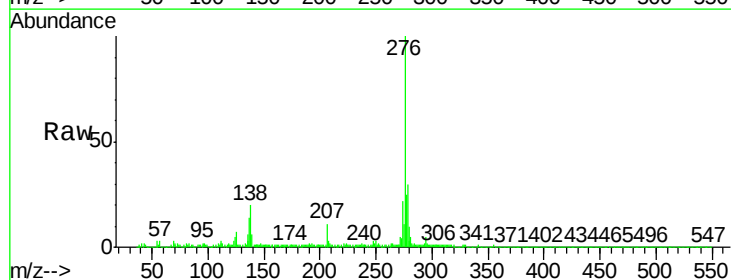
Instrument :
BNA_P
ClientSampleId :
TP-3

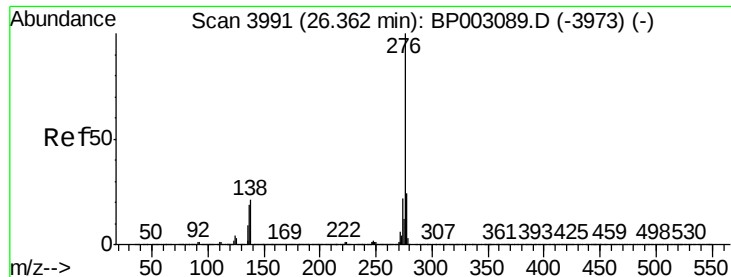
Tot Ion:252 Resp: 1746298
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 10.3 8.2 12.4



#91
Dibenzo(a,h)anthracene
Concen: 5.404 ng
RT: 25.66 min Scan# 3872
Delta R.T. 0.01 min
Lab File: BP003217.D
Acq: 04 Sep 2020 18:24

Tgt Ion:278 Resp: 355950
Ion Ratio Lower Upper
278 100
139 20.9 12.4 18.6#
279 33.4 19.0 28.6#





#92

Benzo(a,h,i)perylene

Concen: 20.938 ng

RT: 26.36 min Scan# 3991

Delta R.T. 0.03 min

Lab File: BP003217.D

Acq: 04 Sep 2020 18:24

Instrument :

BNA_P

ClientSampleId :

TP-3

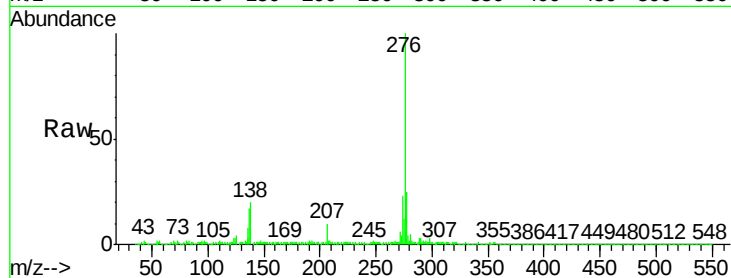
Tot Ion:276 Resp: 1384138

Ion Ratio Lower Upper

276 100

277 25.1 19.0 28.6

138 20.1 16.6 24.8



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

