

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090220\
 Data File : BP003186.D
 Acq On : 02 Sep 2020 14:46
 Operator : CG/JU
 Sample : L3848-23DL 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 LINDEN-BH-01-CDL

Quant Time: Sep 02 17:28:17 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	7.66	152	205494	20.00	ng	0.00
21) Naphthalene-d8	10.43	136	863124	20.00	ng	0.00
39) Acenaphthene-d10	14.30	164	542095	20.00	ng	0.00
64) Phenanthrene-d10	17.05	188	1209539	20.00	ng	0.00
76) Chrysene-d12	21.15	240	1232280	20.00	ng	0.00
86) Perylene-d12	23.38	264	1312567	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.26	112	449800	38.70	ng	0.00
7) Phenol-d6	6.84	99	552664	37.93	ng	0.00
23) Nitrobenzene-d5	8.80	82	327273	27.33	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	286776	39.11	ng	0.00
45) 2-Fluorobiphenyl	12.92	172	974581	26.33	ng	0.00
79) Terphenyl-d14	19.63	244	1493052	26.66	ng	0.00

Target Compounds

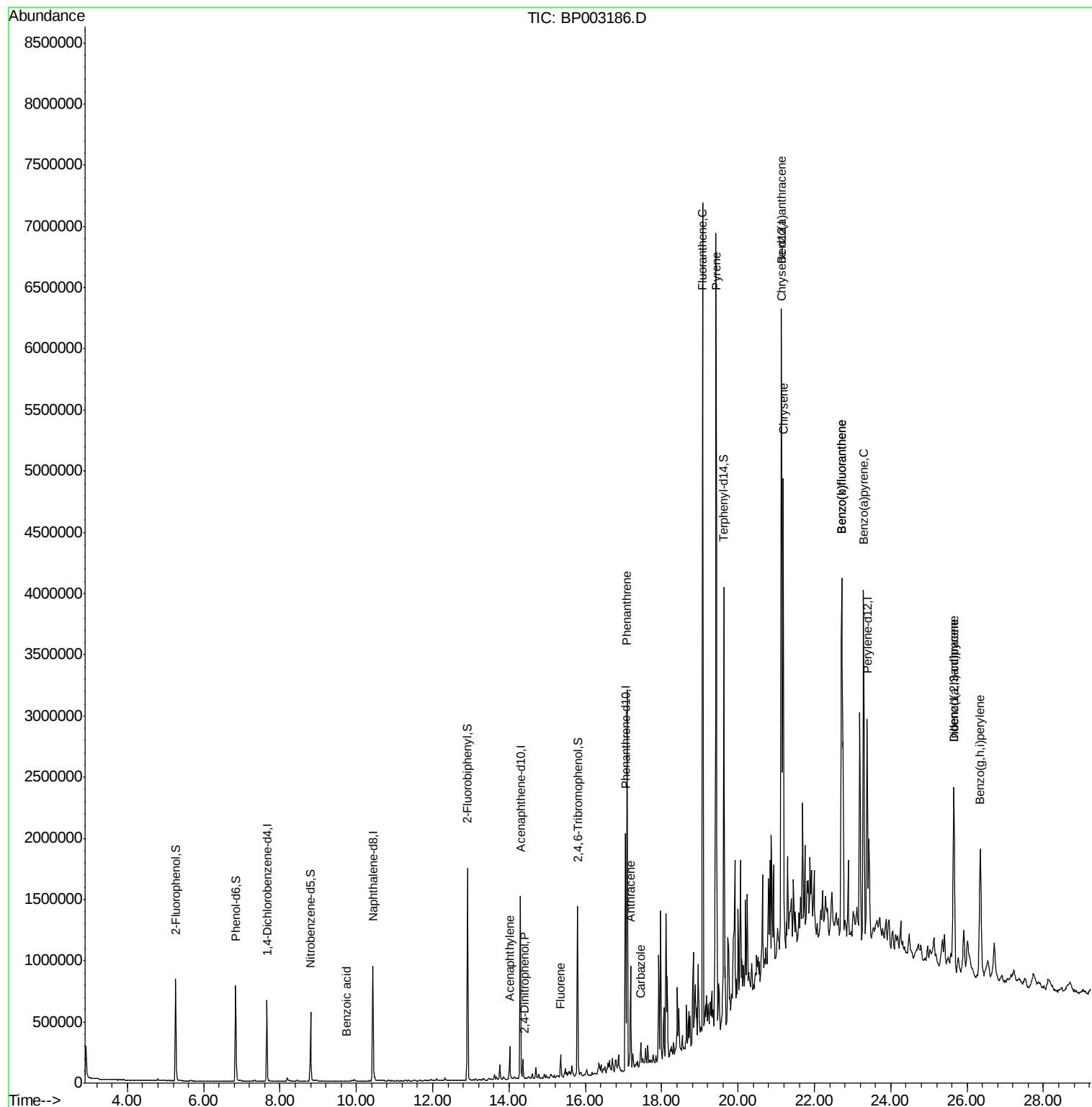
						Qvalue
32) Benzoic acid	9.76	122	172	9.014	ng	# 61
49) Acenaphthylene	14.02	152	233444	4.638	ng	100
54) 2,4-Dinitrophenol	14.41	184	45	7.764	ng	# 1
58) Fluorene	15.35	166	84025	2.246	ng	99
71) Phenanthrene	17.09	178	1950590	29.762	ng	99
72) Anthracene	17.18	178	527014	8.402	ng	100
73) Carbazole	17.45	167	130274	2.164	ng	99
75) Fluoranthene	19.07	202	4104470	54.185	ng	99
78) Pyrene	19.43	202	4362437	54.545	ng	99
81) Benzo(a)anthracene	21.13	228	2448018	31.715	ng	97
83) Chrysene	21.18	228	2161491	29.247	ng	98
87) Indeno(1,2,3-cd)pyrene	25.65	276	1368415	13.980	ng	97
88) Benzo(b)fluoranthene	22.72	252	3506692	42.984	ng	97
89) Benzo(k)fluoranthene	22.72	252	3506692	44.989	ng	98
90) Benzo(a)pyrene	23.29	252	2089236	27.605	ng	97
91) Dibenzo(a,h)anthracene	25.65	278	370898	4.613	ng	# 89
92) Benzo(g,h,i)perylene	26.34	276	1343492	16.649	ng	99

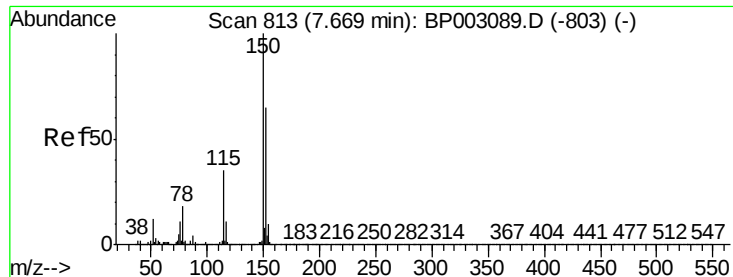
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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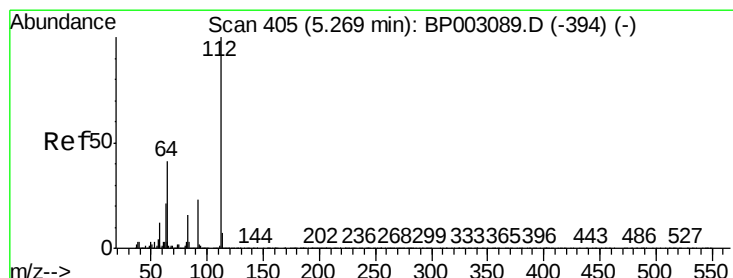
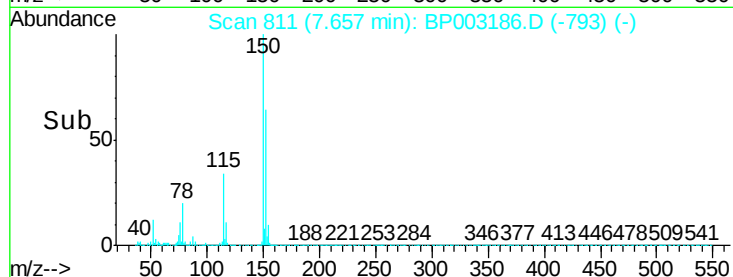
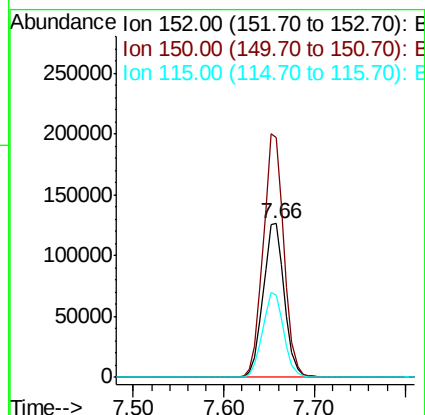
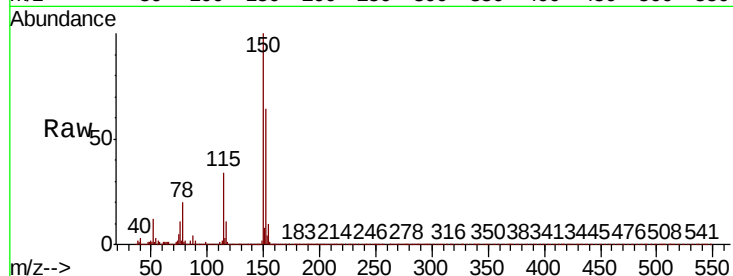


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.66 min Scan# 811
Delta R.T. 0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-01-CDL

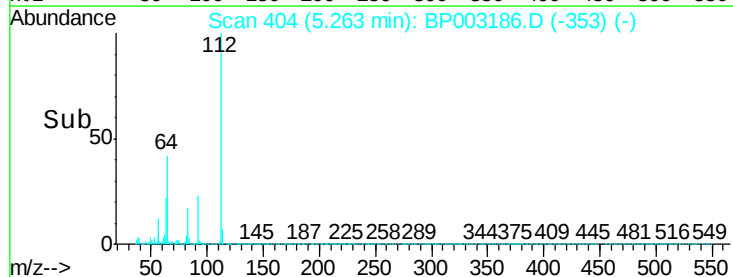
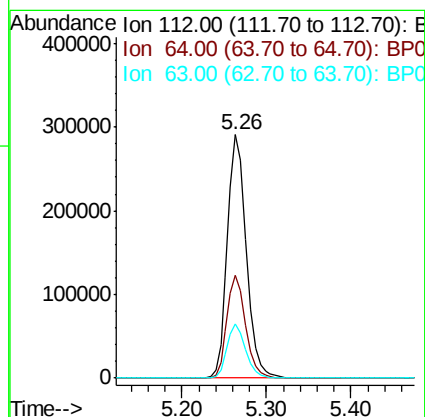
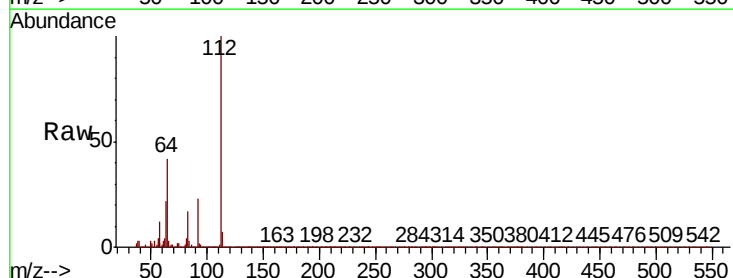
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	123.8	185.6
115	53.6	43.8	65.6

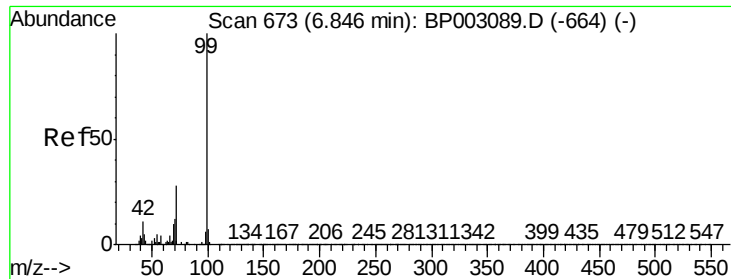


#5

2-Fluorophenol
Concen: 38.700 ng
RT: 5.26 min Scan# 404
Delta R.T. -0.00 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.2	32.8	49.2
63	22.3	17.0	25.4





#7

Phenol-d6

Concen: 37.932 ng

RT: 6.84 min Scan# 672

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

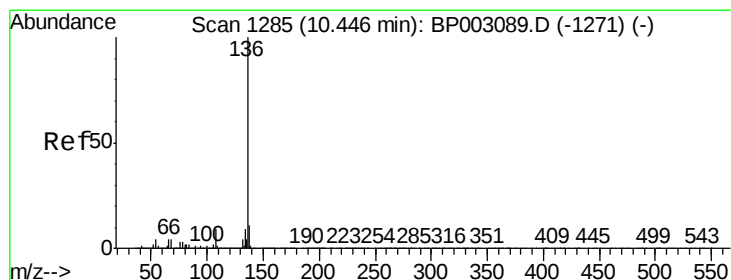
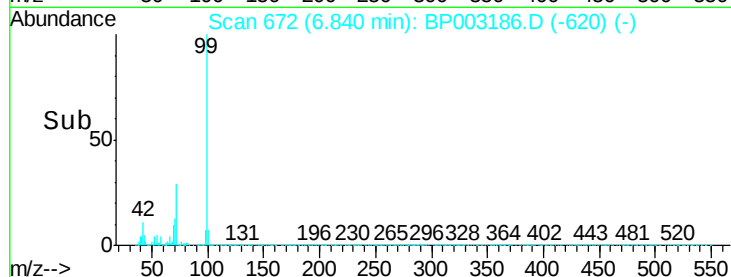
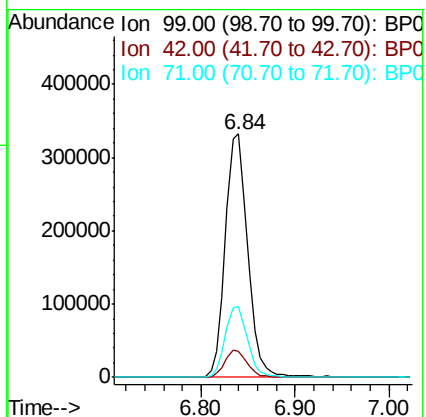
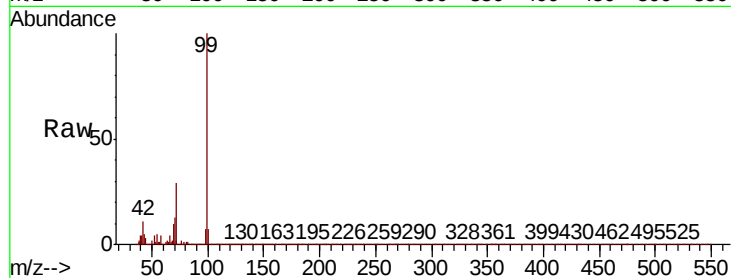
Tot Ion: 99 Resp: 552664

Ion Ratio Lower Upper

99 100

42 10.7 8.6 13.0

71 29.3 23.4 35.2



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.43 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Tgt Ion: 136 Resp: 863124

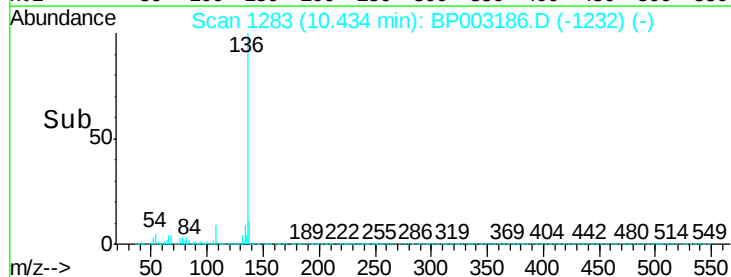
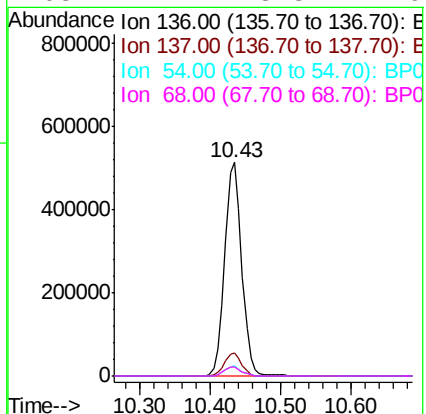
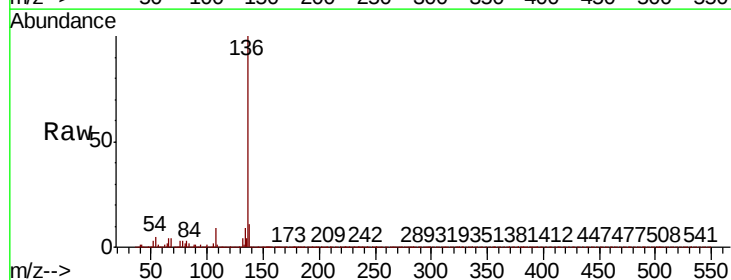
Ion Ratio Lower Upper

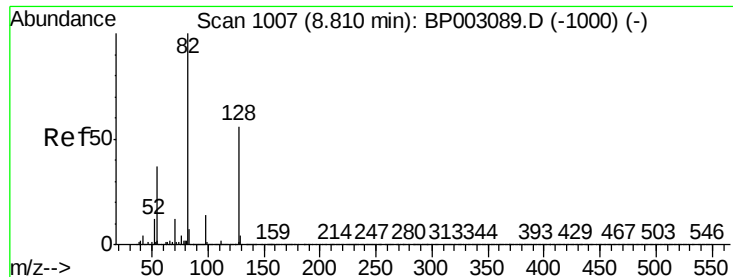
136 100

137 10.7 8.6 13.0

54 4.6 3.6 5.4

68 4.2 3.3 4.9

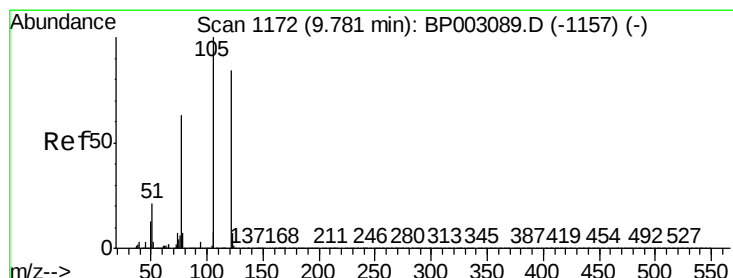
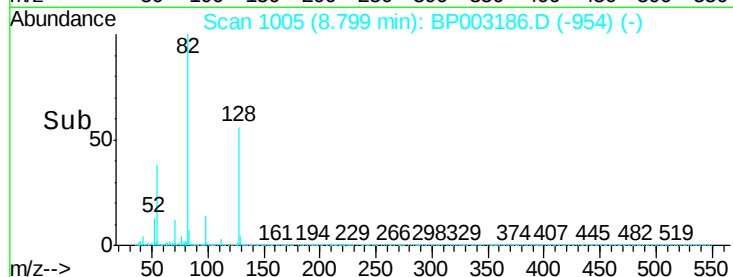
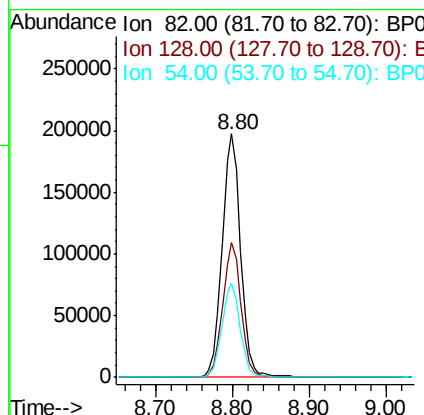
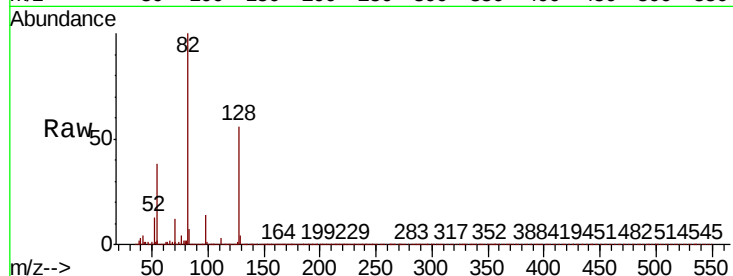




#23
Nitrobenzene-d5
Concen: 27.335 ng
RT: 8.80 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

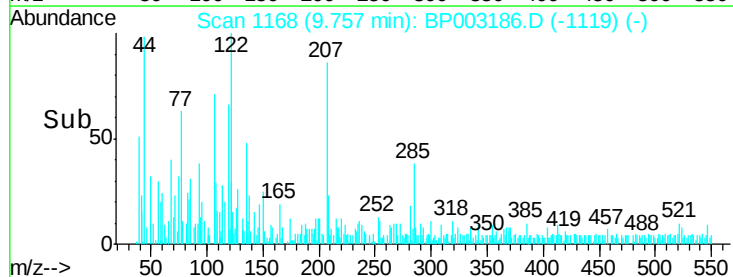
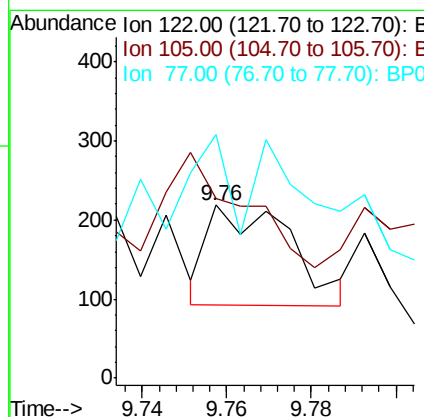
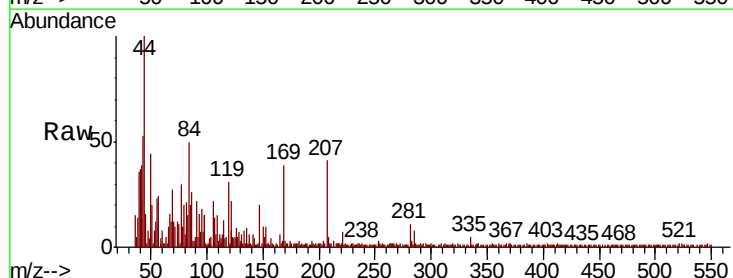
Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-01-CDL

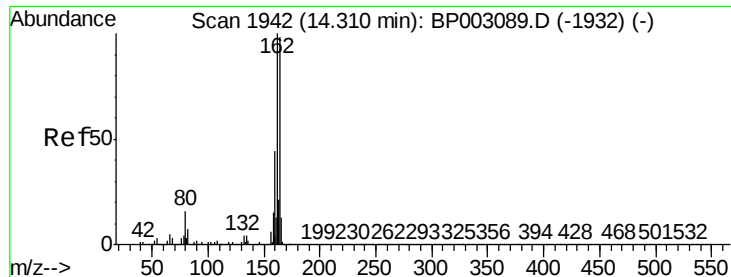
Tot Ion: 82 Resp: 327273
Ion Ratio Lower Upper
82 100
128 55.6 45.6 68.4
54 38.4 30.1 45.1



#32
Benzoic acid
Concen: 9.014 ng
RT: 9.76 min Scan# 1168
Delta R.T. -0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Tgt Ion: 122 Resp: 172
Ion Ratio Lower Upper
122 100
105 103.7 94.1 134.1
77 140.6 50.1 90.1#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.30 min Scan# 1940

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

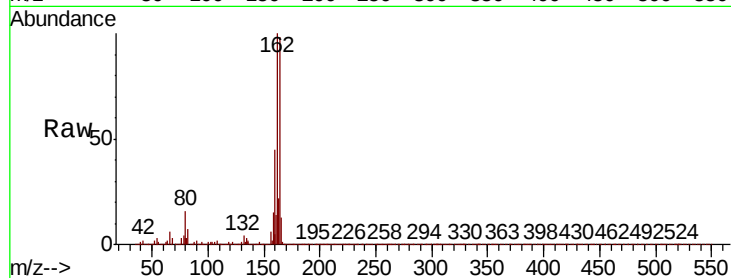
Tot Ion:164 Resp: 542095

Ion Ratio Lower Upper

164 100

162 102.1 79.4 119.2

160 45.8 36.1 54.1



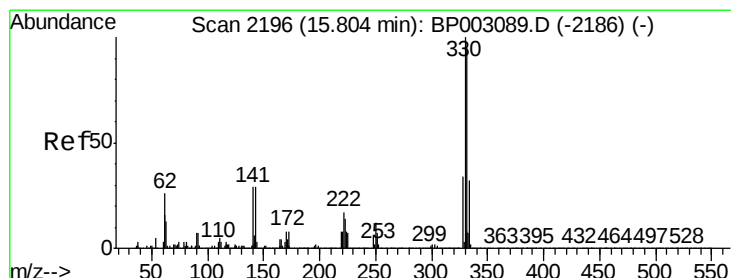
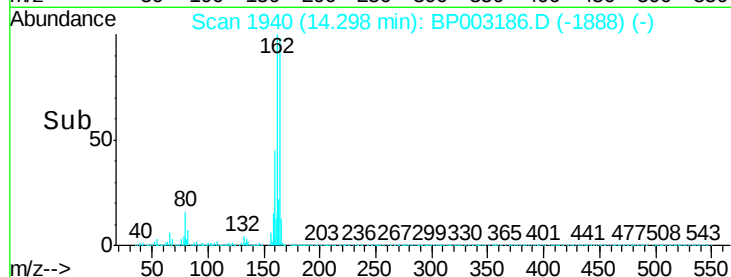
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.30

Time-->



#42

2,4,6-Tribromophenol

Concen: 39.115 ng

RT: 15.79 min Scan# 2194

Delta R.T. -0.00 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

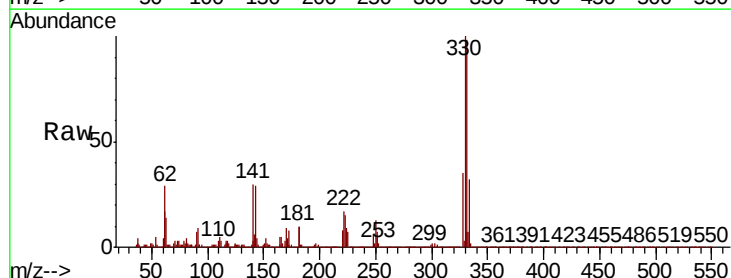
Tgt Ion:330 Resp: 286776

Ion Ratio Lower Upper

330 100

332 96.6 77.1 115.7

141 31.3 23.4 35.2



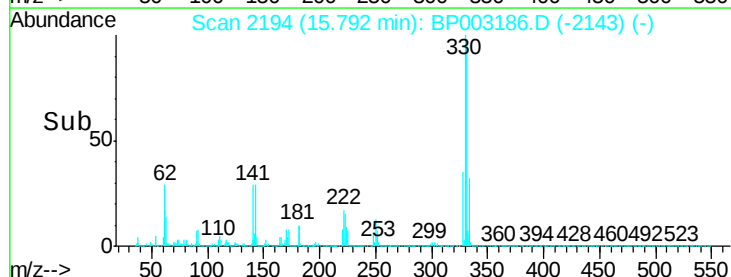
Abundance Ion 329.80 (329.50 to 330.50): E

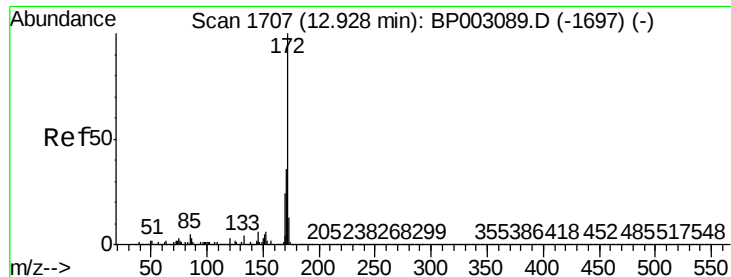
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

15.79

Time-->

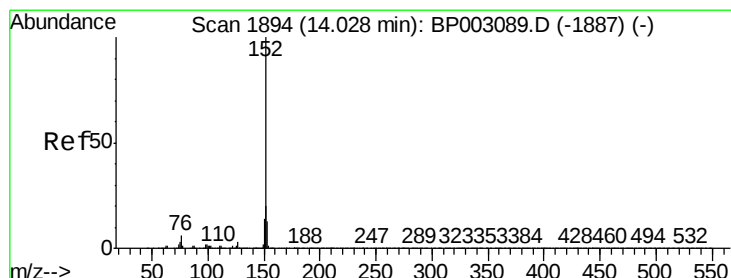
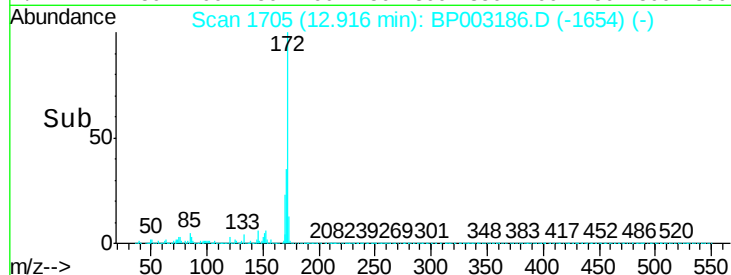
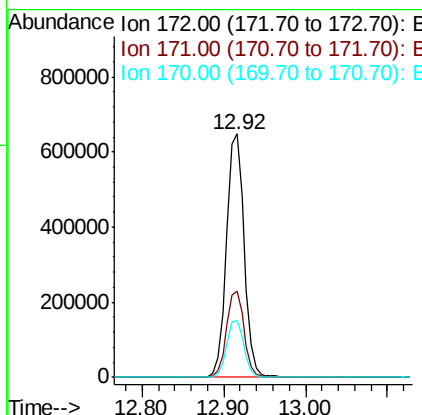
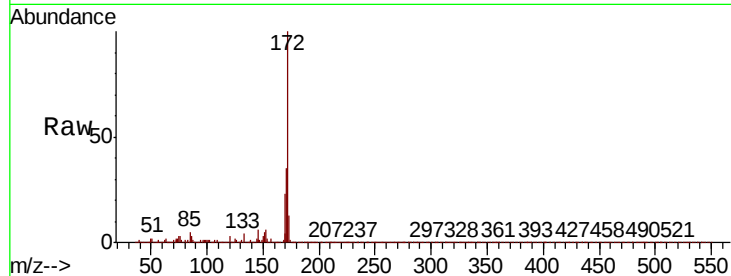




#45
2-Fluorobiphenyl
Concen: 26.328 ng
RT: 12.92 min Scan# 1705
Delta R.T. -0.00 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

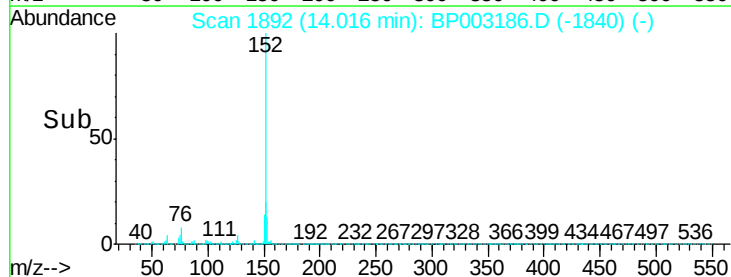
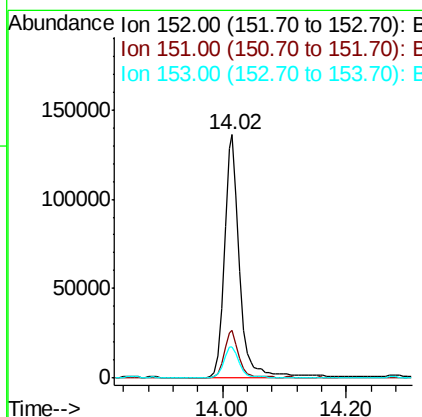
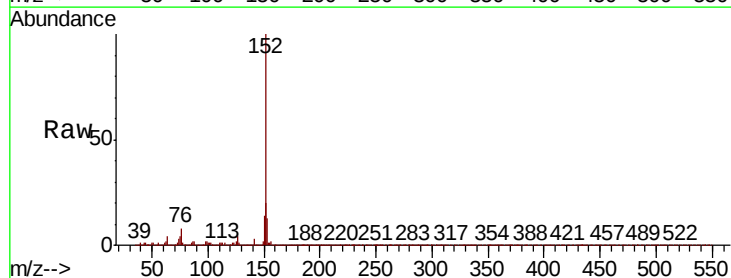
Instrument :
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LINDEN-BH-01-CDL

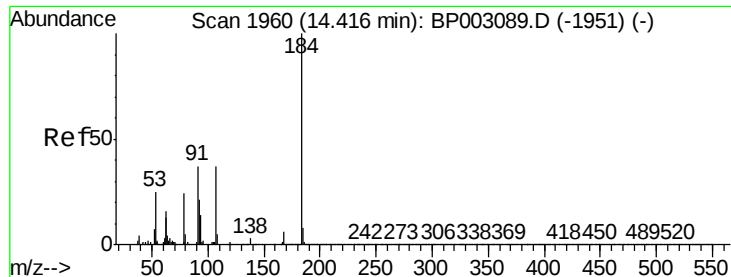
Tot Ion:172 Resp: 974581
Ion Ratio Lower Upper
172 100
171 35.2 28.5 42.7
170 23.1 19.2 28.8



#49
Acenaphthylene
Concen: 4.638 ng
RT: 14.02 min Scan# 1892
Delta R.T. 0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Tgt Ion:152 Resp: 233444
Ion Ratio Lower Upper
152 100
151 19.9 15.9 23.9
153 13.0 10.5 15.7





#54

2,4-Dinitrophenol

Concen: 7.764 ng

RT: 14.41 min Scan# 1959

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

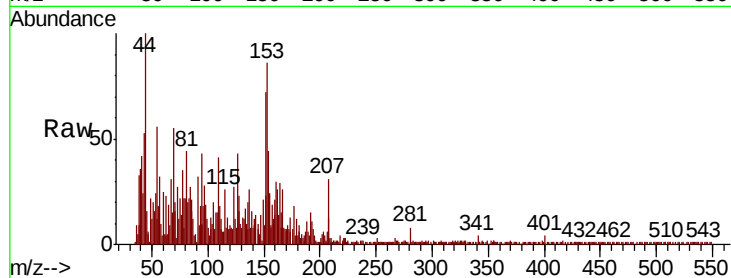
Tot Ion:184 Resp: 45

Ion Ratio Lower Upper

184 100

63 488.3 32.3 48.5#

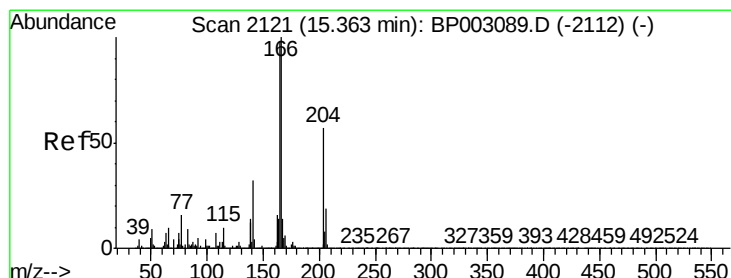
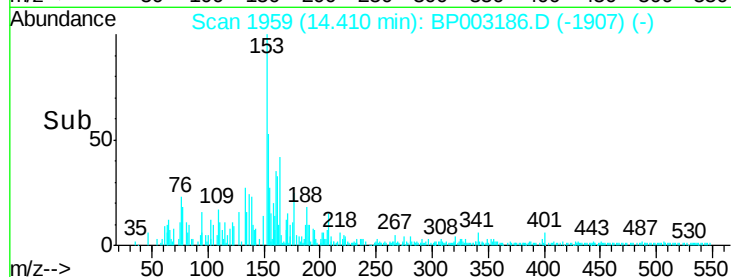
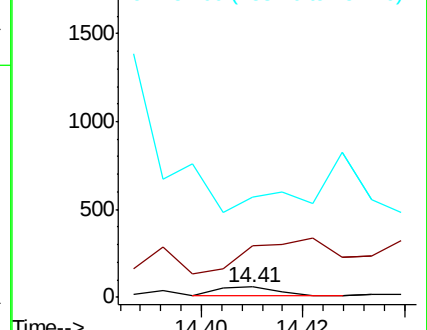
154 948.3 49.1 73.7#



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: 2.246 ng

RT: 15.35 min Scan# 2119

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

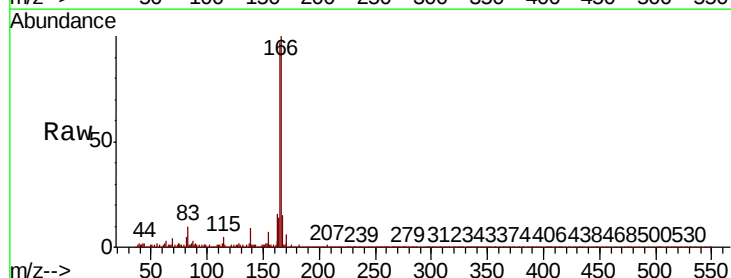
Tgt Ion:166 Resp: 84025

Ion Ratio Lower Upper

166 100

165 97.1 77.8 116.8

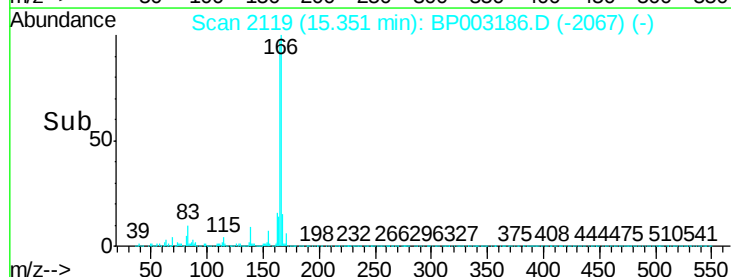
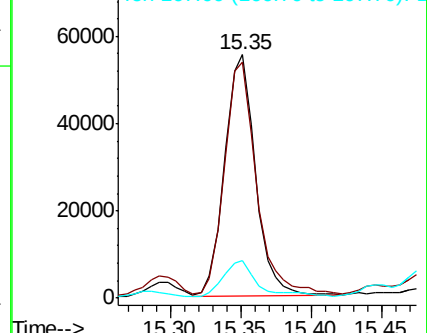
167 15.2 11.0 16.4

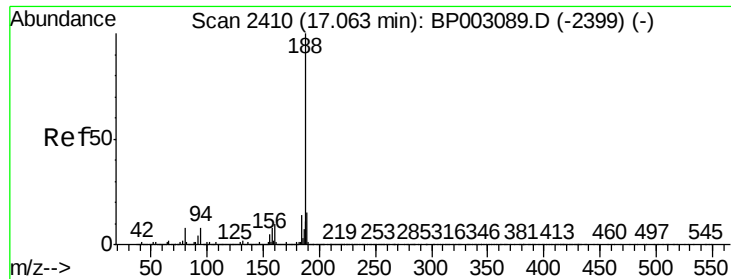


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

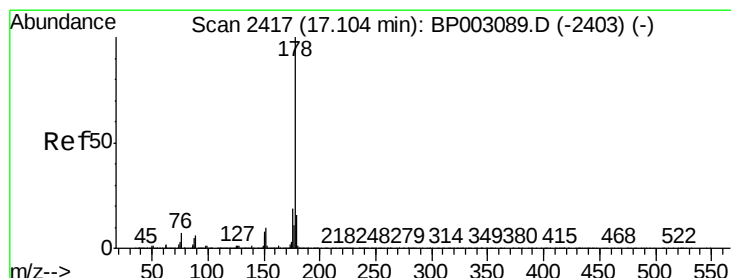
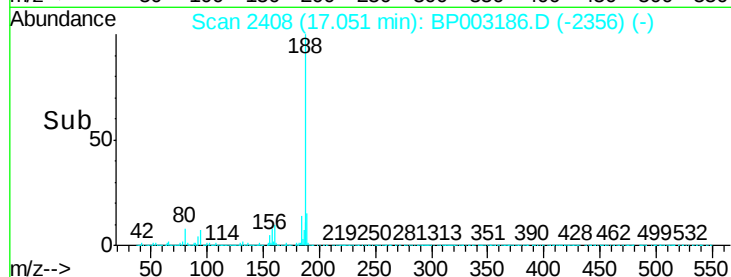
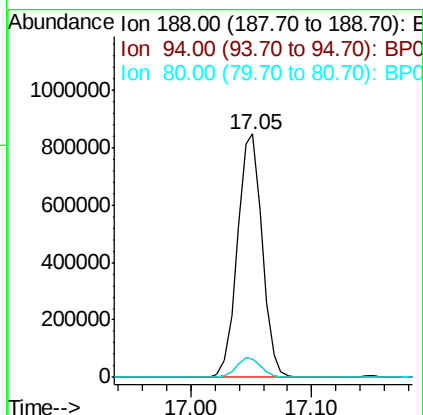
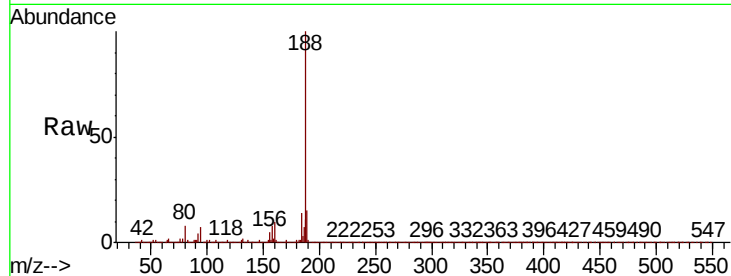




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.05 min Scan# 2408
Delta R.T. 0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

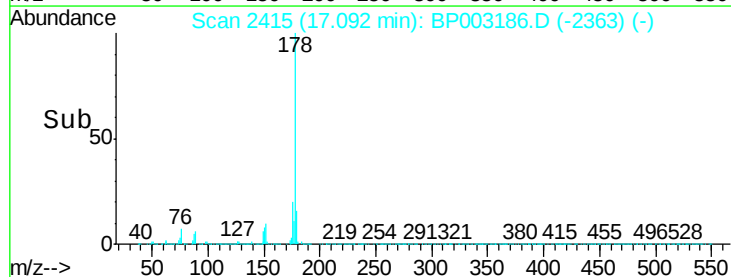
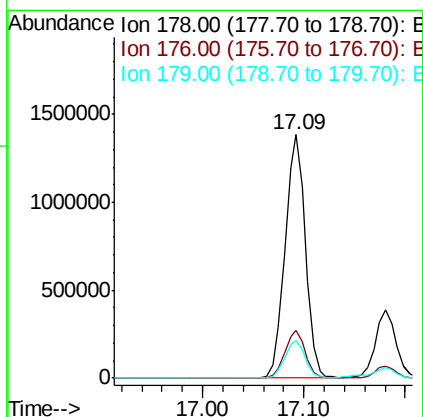
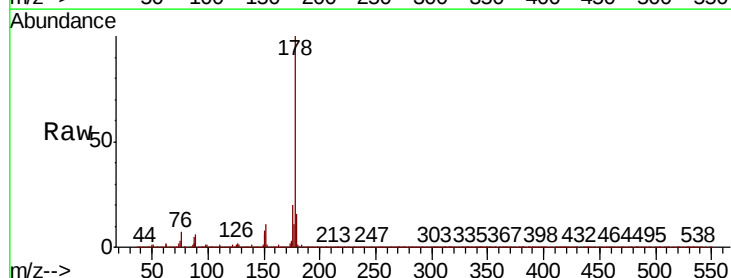
Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-01-CDL

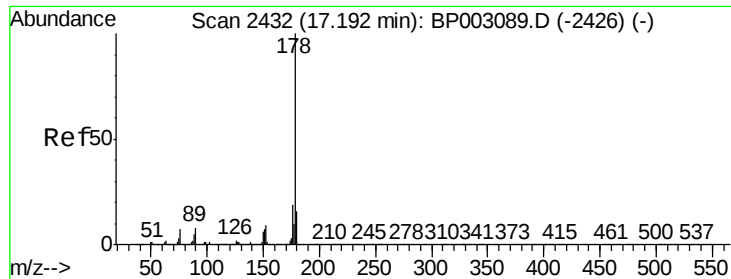
Tot Ion:188 Resp: 1209539
Ion Ratio Lower Upper
188 100
94 7.4 6.2 9.2
80 7.8 6.2 9.2



#71
Phenanthrene
Concen: 29.762 ng
RT: 17.09 min Scan# 2415
Delta R.T. 0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Tgt Ion:178 Resp: 1950590
Ion Ratio Lower Upper
178 100
176 19.6 15.3 22.9
179 15.6 12.5 18.7





#72

Anthracene

Concen: 8.402 ng

RT: 17.18 min Scan# 2430

Delta R.T. -0.00 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

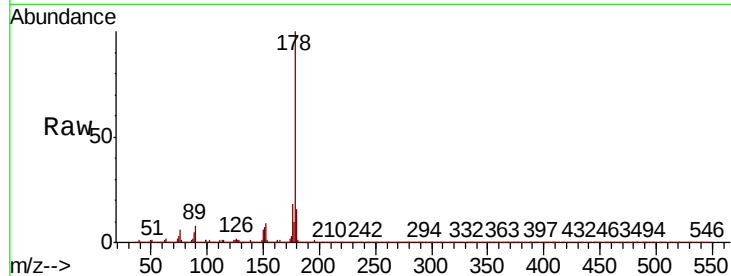
Tot Ion:178 Resp: 527014

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

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

1500000

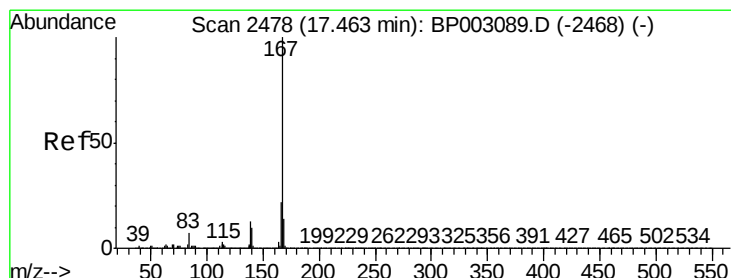
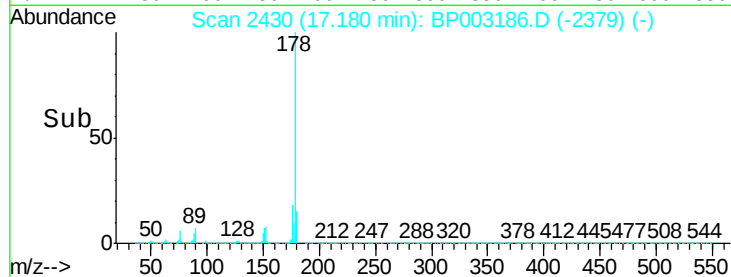
1000000

500000

0

17.18

Time--> 17.10 17.15 17.20



#73

Carbazole

Concen: 2.164 ng

RT: 17.45 min Scan# 2476

Delta R.T. -0.00 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

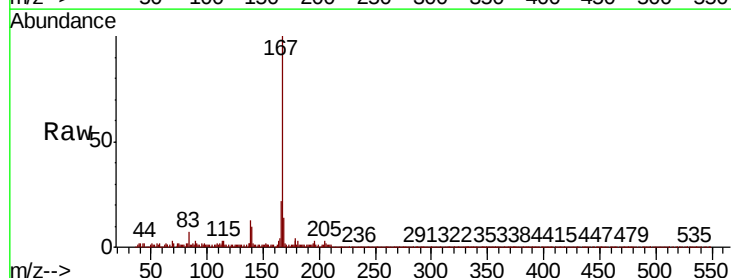
Tgt Ion:167 Resp: 130274

Ion Ratio Lower Upper

167 100

166 22.3 17.6 26.4

139 13.4 10.2 15.4



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

120000

100000

80000

60000

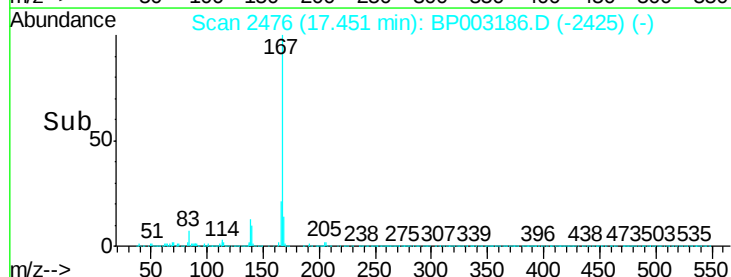
40000

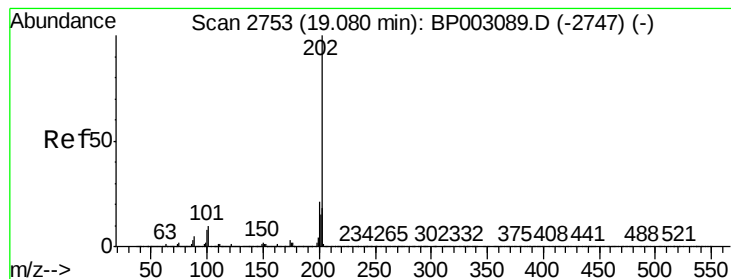
20000

0

17.45

Time--> 17.40 17.50





#75

Fluoranthene

Concen: 54.185 ng

RT: 19.07 min Scan# 2752

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

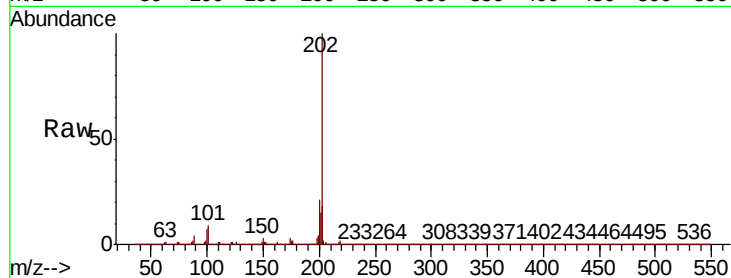
Tot Ion:202 Resp: 4104470

Ion Ratio Lower Upper

202 100

101 9.4 0.0 29.4

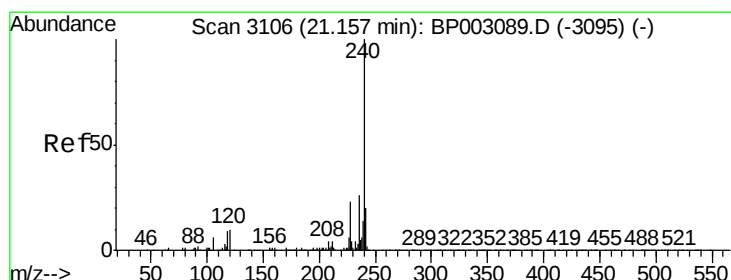
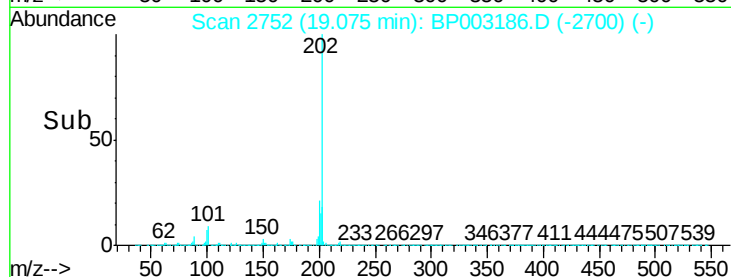
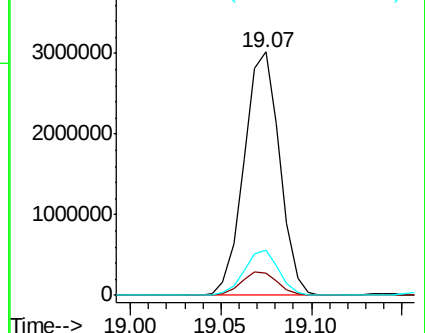
203 18.3 0.0 37.8



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: BP003186.D

Acq: 02 Sep 2020 14:46

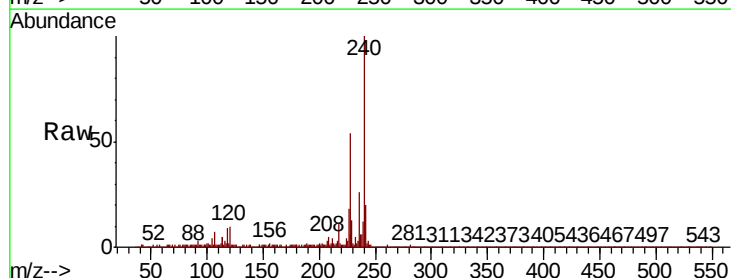
Tgt Ion:240 Resp: 1232280

Ion Ratio Lower Upper

240 100

120 10.3 7.8 11.6

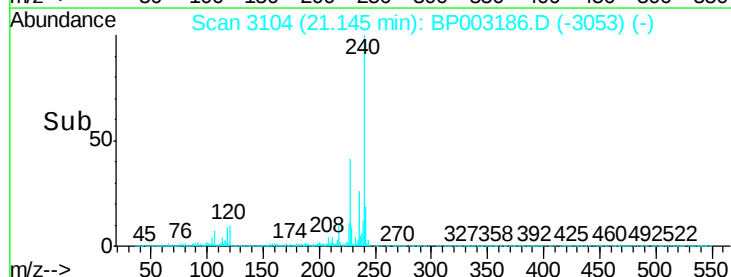
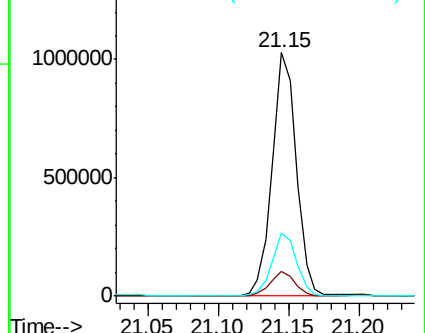
236 26.0 20.8 31.2

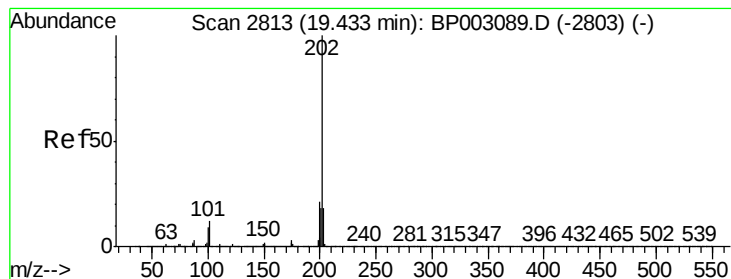


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 54.545 ng

RT: 19.43 min Scan# 2812

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

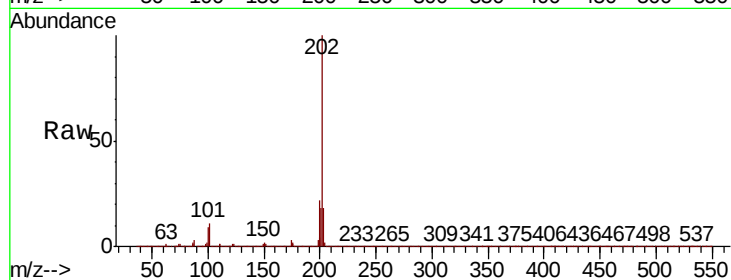
BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

Tot Ion:202 Resp: 4362437

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	18.1	14.2	21.2

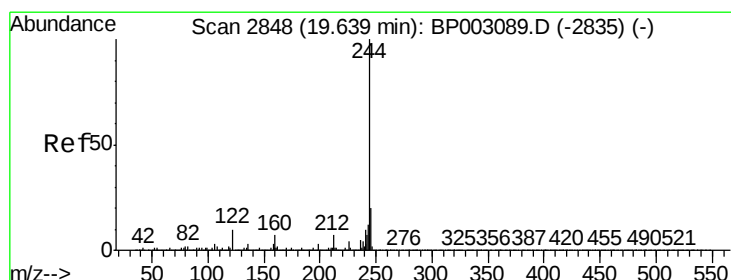
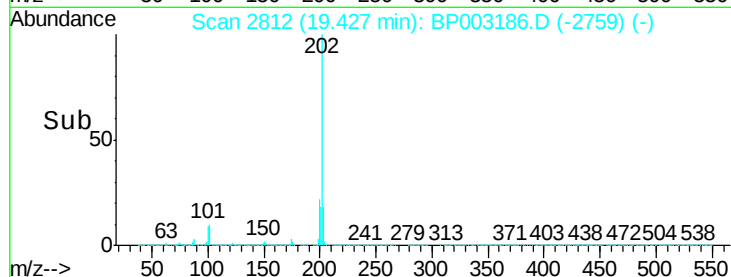
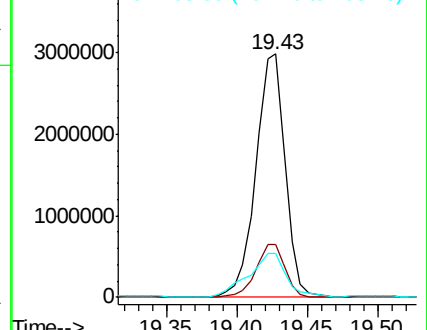


Abundance

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: 26.661 ng

RT: 19.63 min Scan# 2846

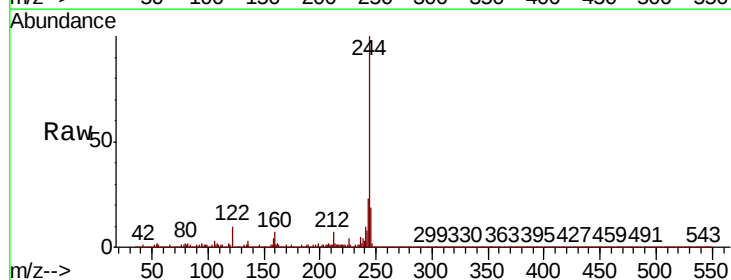
Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Tgt Ion:244 Resp: 1493052

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.8	7.8	11.8

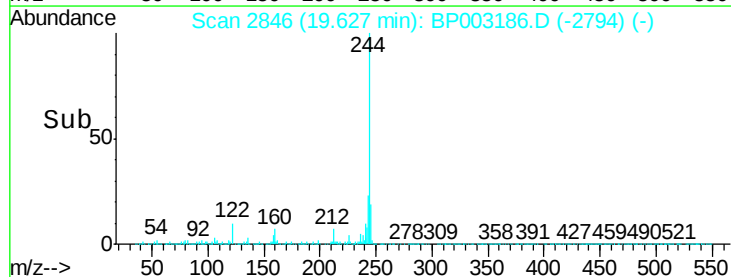
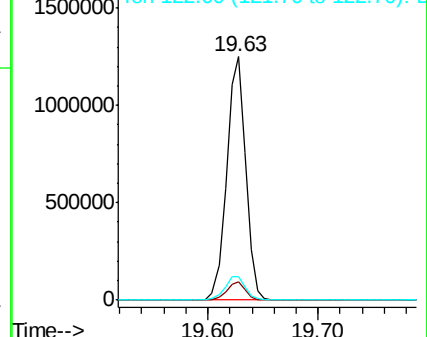


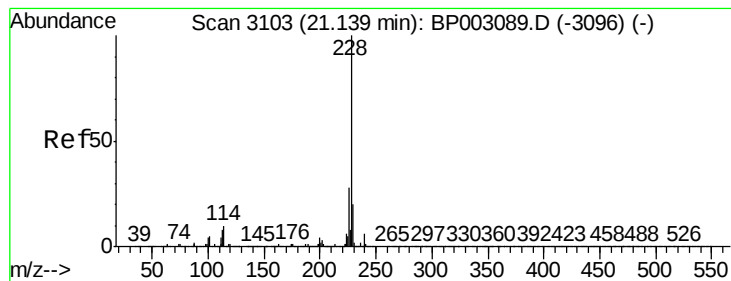
Abundance

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: 31.715 ng

RT: 21.13 min Scan# 3102

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

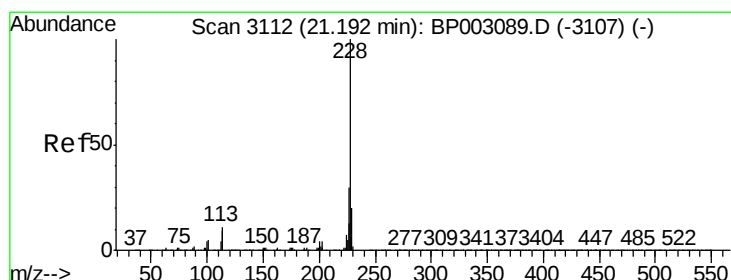
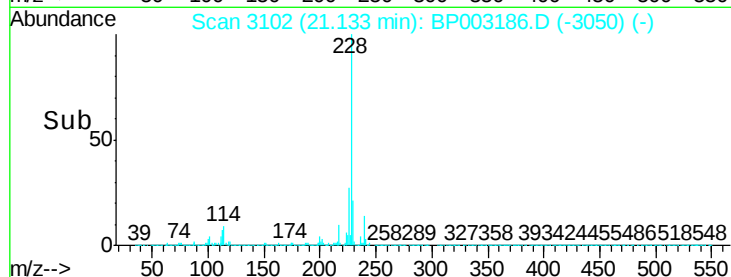
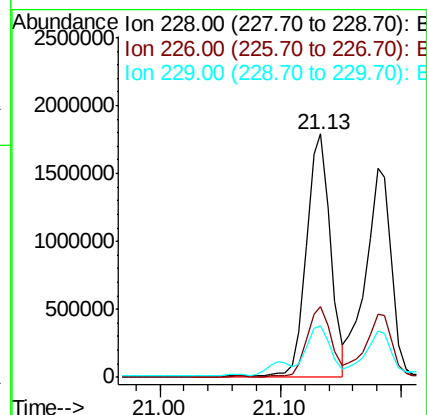
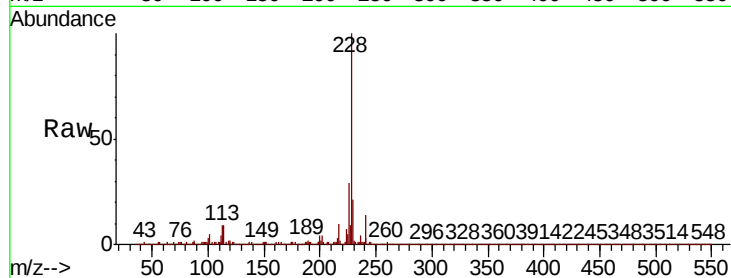
BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

Tot Ion:228 Resp: 2448018

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.1	33.1
229	21.3	15.9	23.9



#83

Chrysene

Concen: 29.247 ng

RT: 21.18 min Scan# 3110

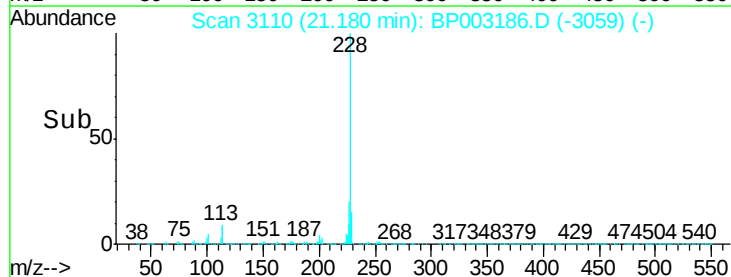
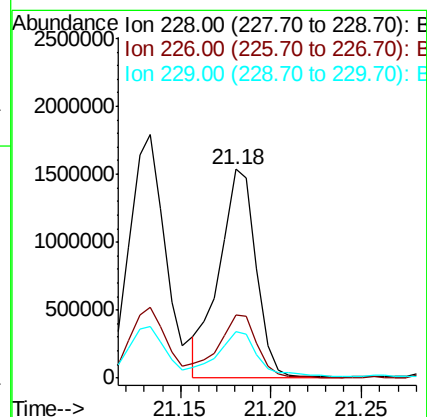
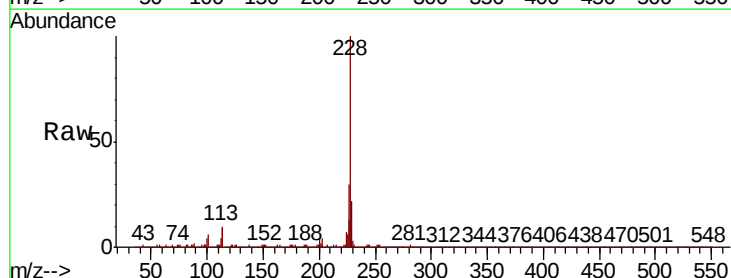
Delta R.T. -0.00 min

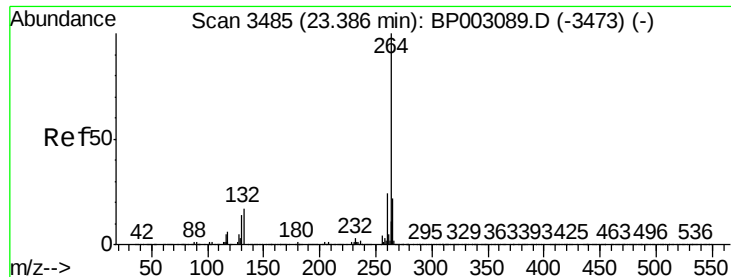
Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Tgt Ion:228 Resp: 2161491

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6
229	22.2	15.8	23.6





#86

Pervlene-d12

Concen: 20.000 ng

RT: 23.38 min Scan# 3484

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

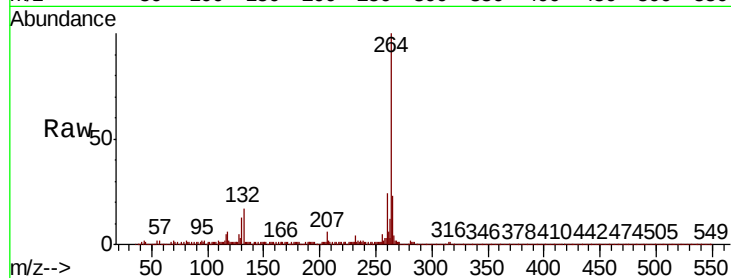
Tot Ion:264 Resp: 1312567

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.8	28.2
265	22.7	17.4	26.2

264 100

260 23.8 18.8 28.2

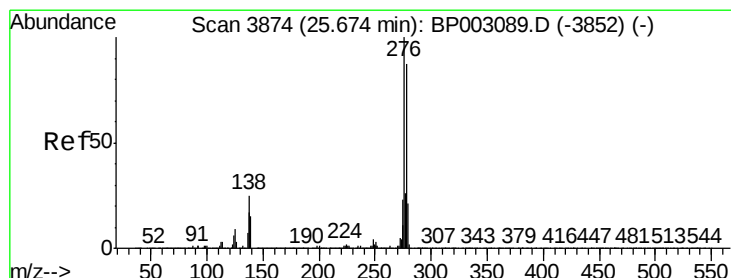
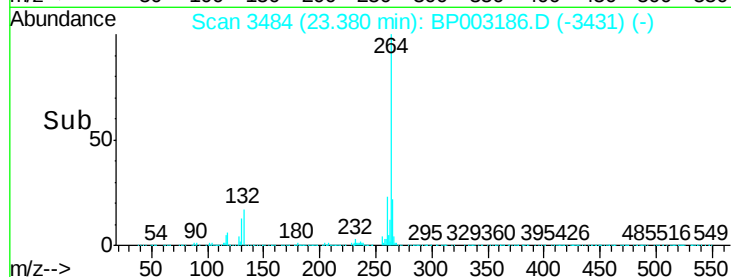
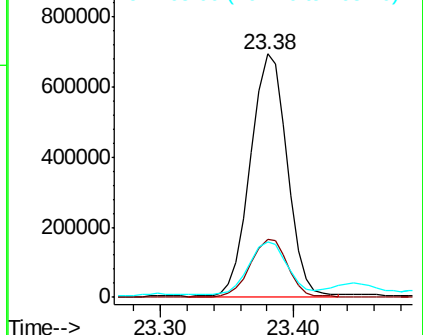
265 22.7 17.4 26.2



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



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.980 ng

RT: 25.65 min Scan# 3870

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

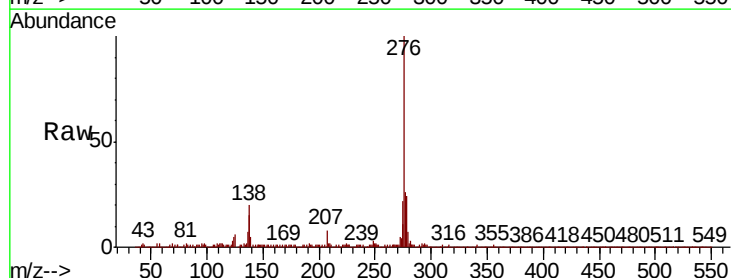
Tgt Ion:276 Resp: 1368415

Ion	Ratio	Lower	Upper
276	100		
138	20.8	18.7	28.1
277	25.1	20.4	30.6

276 100

138 20.8 18.7 28.1

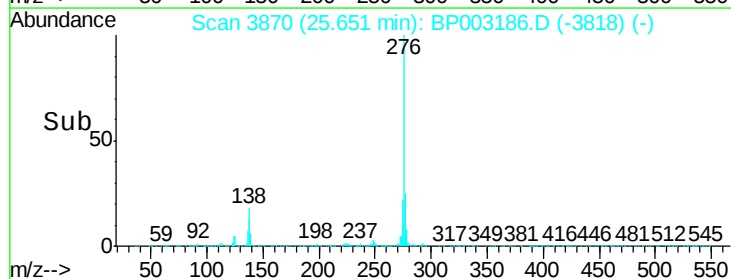
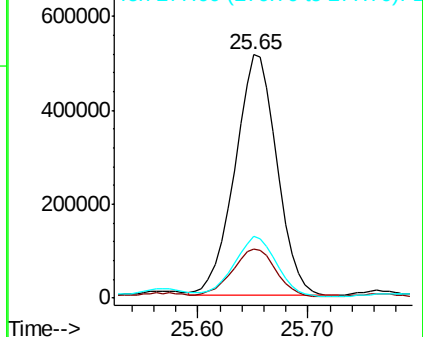
277 25.1 20.4 30.6

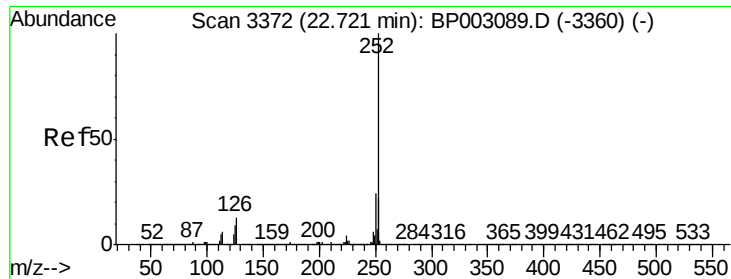


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

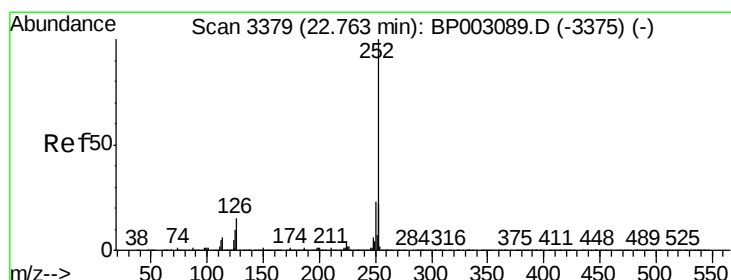
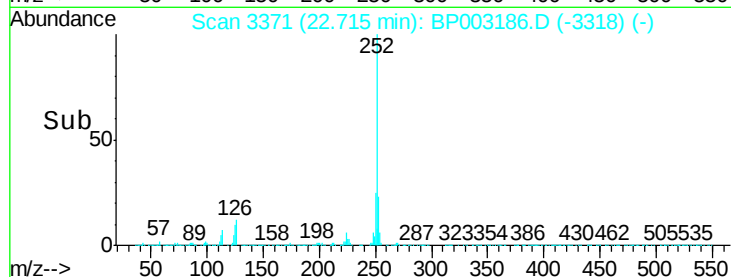
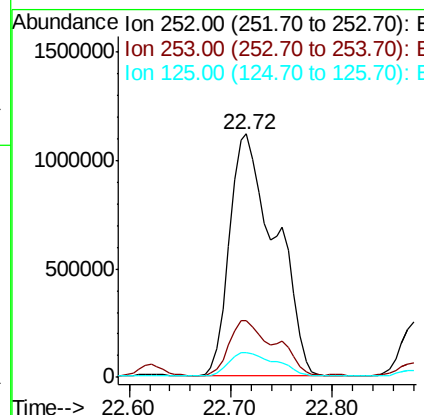
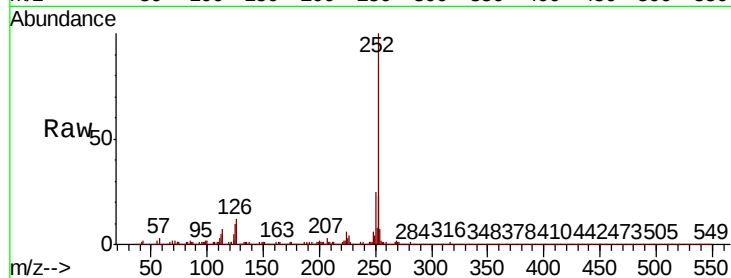




#88
Benzo(b)fluoranthene
Concen: 42.984 ng
RT: 22.72 min Scan# 3371
Delta R.T. 0.01 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

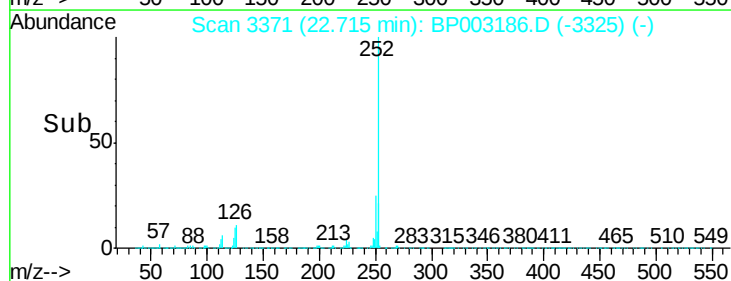
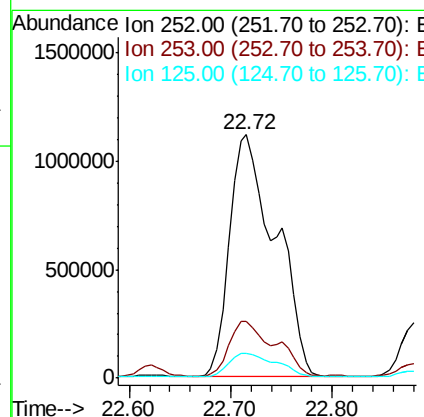
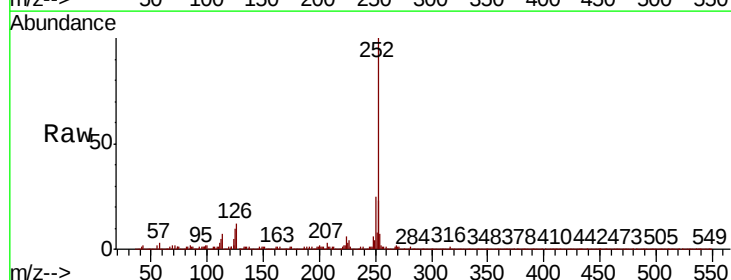
Instrument :
BNA_P
ClientSampleId :
LINDEN-BH-01-CDL

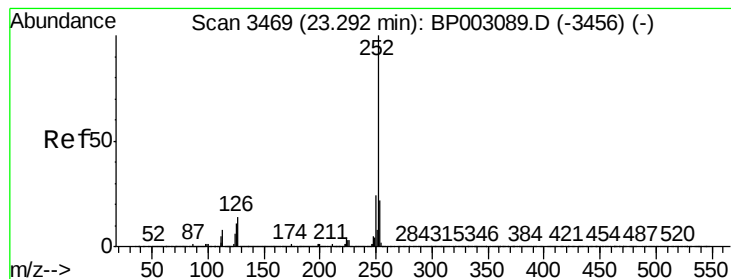
Tot Ion:252 Resp: 3506692
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 10.1 7.3 10.9



#89
Benzo(k)fluoranthene
Concen: 44.989 ng
RT: 22.72 min Scan# 3371
Delta R.T. -0.03 min
Lab File: BP003186.D
Acq: 02 Sep 2020 14:46

Tgt Ion:252 Resp: 3506692
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 10.1 7.4 11.2





#90

Benzo(a)pyrene

Concen: 27.605 ng

RT: 23.29 min Scan# 3468

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

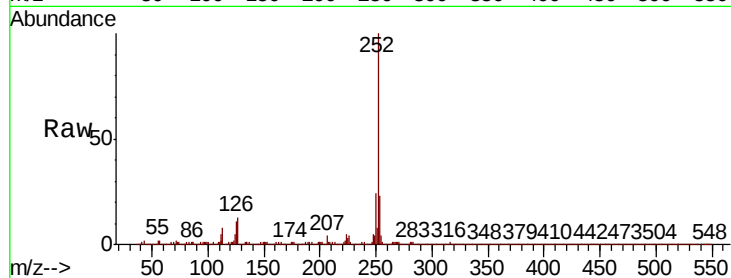
Tot Ion:252 Resp: 2089236

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

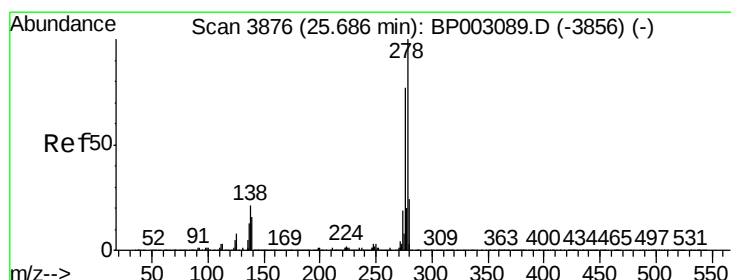
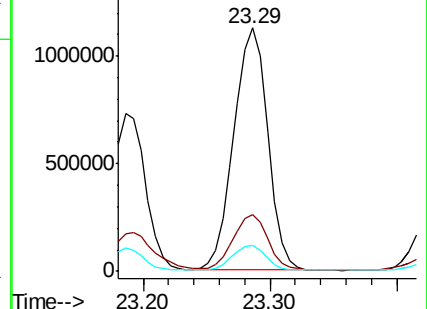
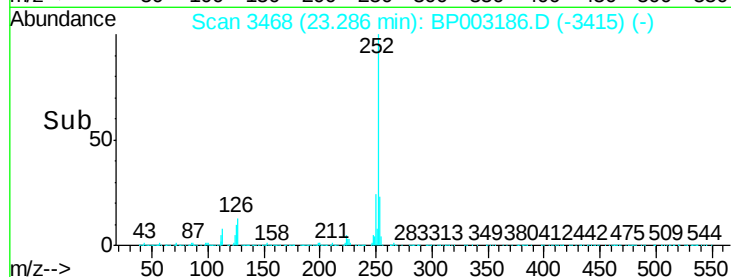
125 10.5 8.2 12.4



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: 4.613 ng

RT: 25.65 min Scan# 3870

Delta R.T. -0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

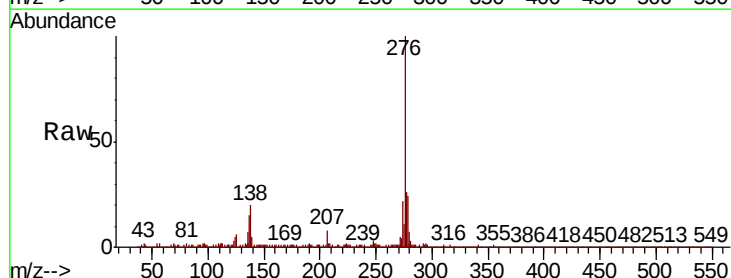
Tgt Ion:278 Resp: 370898

Ion Ratio Lower Upper

278 100

139 22.0 12.4 18.6#

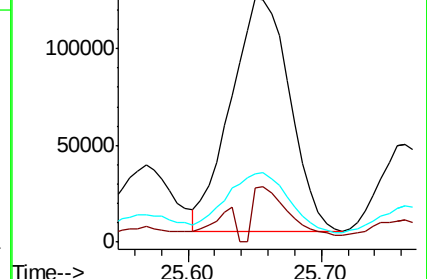
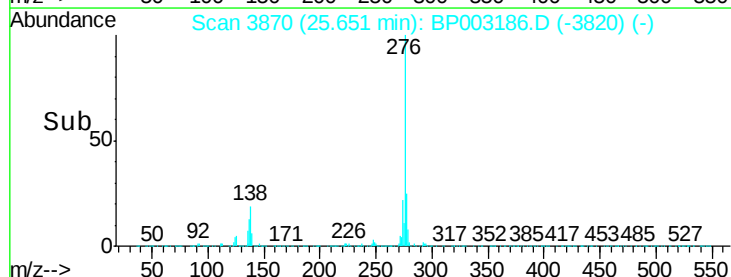
279 28.0 19.0 28.6

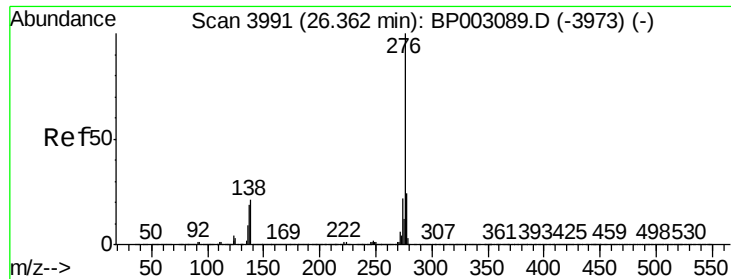


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 16.649 ng

RT: 26.34 min Scan# 3988

Delta R.T. 0.01 min

Lab File: BP003186.D

Acq: 02 Sep 2020 14:46

Instrument :

BNA_P

ClientSampleId :

LINDEN-BH-01-CDL

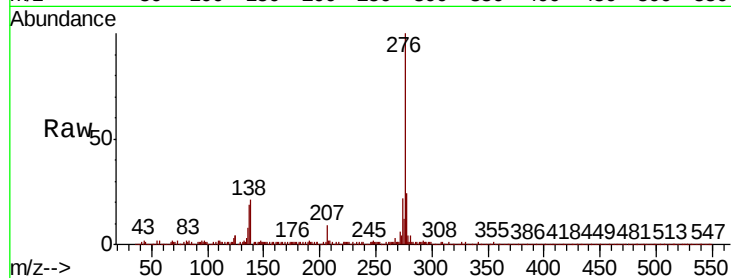
Tot Ion: 276 Resp: 1343492

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.6

138 21.3 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

