

Data File : BP001582.D
Acq On : 09 Jan 2020 16:51
Operator : JU
Sample : L1016-01RE
Misc :
ALS Vial : 9 Sample Multiplier: 2

Instrument :
BNA_P
ClientSampleId :
SU-02-010720

Quant Time: Jan 10 05:06:47 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 15:02:19 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	87476	40.00	ng	-0.01
21) Naphthalene-d8	10.43	136	336115	40.00	ng	-0.01
39) Acenaphthene-d10	14.30	164	222535	40.00	ng	-0.01
64) Phenanthrene-d10	17.06	188	474351	40.00	ng	-0.01
76) Chrysene-d12	21.16	240	367885	40.00	ng	-0.01
87) Perylene-d12	23.42	264	382873	40.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.28	112	135354	60.62	ng	-0.01
7) Phenol-d6	6.85	99	196450	55.05	ng	-0.01
23) Nitrobenzene-d5	8.80	82	138373	35.98	ng	-0.01
42) 2,4,6-Tribromophenol	15.80	330	84629	49.97	ng	-0.01
45) 2-Fluorobiphenyl	12.92	172	297705	39.34	ng	-0.01
79) Terphenyl-d14	19.65	244	383811	38.16	ng	-0.01

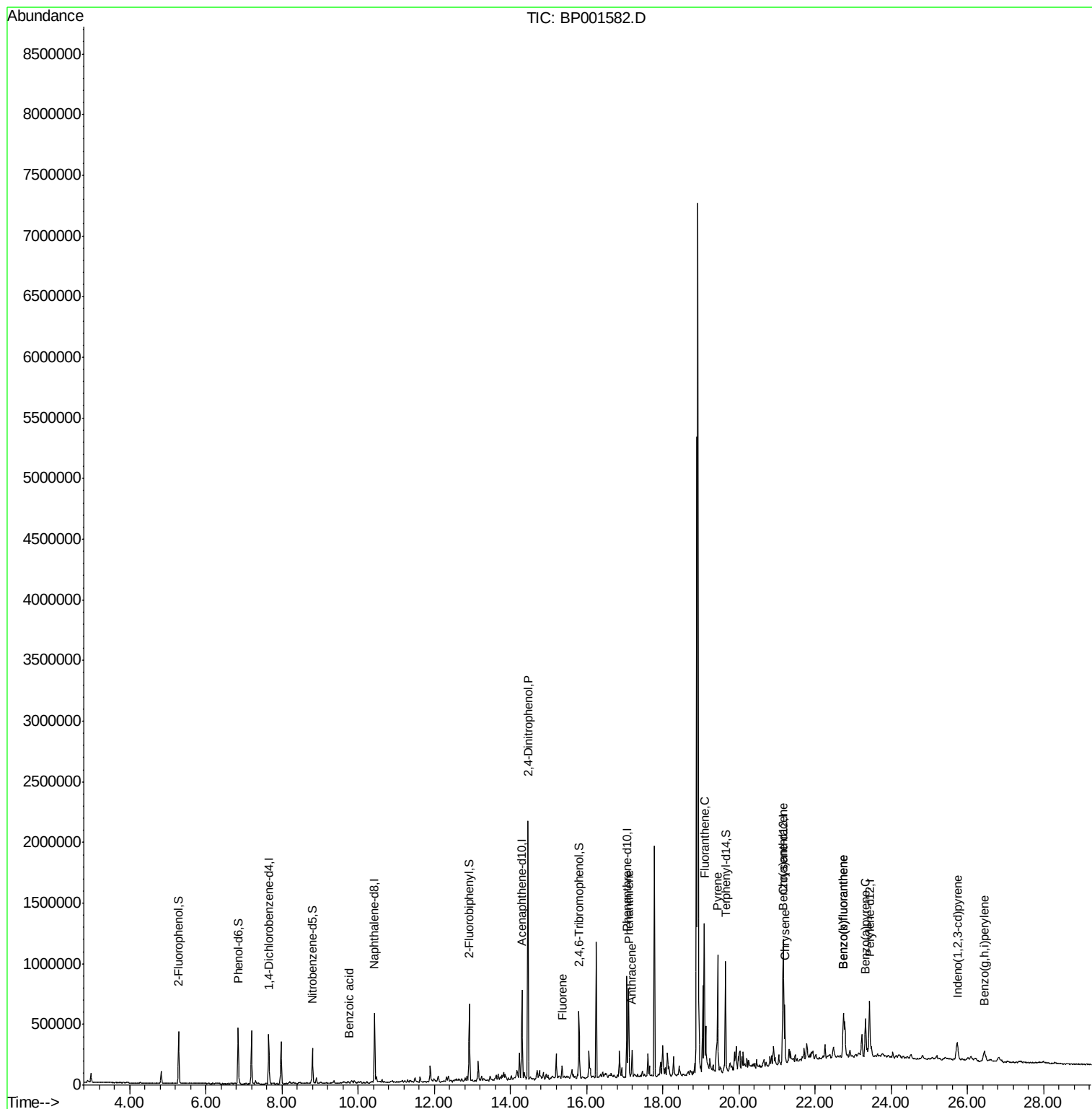
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.48	128	32153	3.625	ng	98
32) Benzoic acid	9.76	122	49	9.428	ng	# 62
37) 2-Methylnaphthalene	12.10	142	17302	2.448	ng	97
38) 1-Methylnaphthalene	12.10	142	17228	2.533	ng	99
52) Acenaphthene	14.36	154	17145	2.709	ng	97
54) 2,4-Dinitrophenol	14.46	184	5728	5.242	ng	# 24
55) Dibenzofuran	14.70	168	25481	2.381	ng	# 90
58) Fluorene	15.35	166	40811	4.712	ng	96
71) Phenanthrene	17.10	178	418141	32.418	ng	99
72) Anthracene	17.19	178	127239	10.133	ng	99
73) Carbazole	17.46	167	23848	2.023	ng	95
75) Fluoranthene	19.08	202	667459	39.327	ng	98
78) Pyrene	19.43	202	582231	43.090	ng	99
81) Benzo(a)anthracene	21.15	228	310315	24.224	ng	98
83) Chrysene	21.20	228	259782	20.809	ng	98
86) Indeno(1,2,3-cd)pyrene	25.73	276	167790	11.482	ng	97
88) Benzo(b)fluoranthene	22.74	252	347786	28.830	ng	# 97
89) Benzo(k)fluoranthene	22.74	252	347786	29.569	ng	# 98
90) Benzo(a)pyrene	23.32	252	259471	22.654	ng	97
91) Dibenzo(a,h)anthracene	25.73	278	39237	3.320	ng	93
92) Benzo(g,h,i)perylene	26.43	276	156905	13.356	ng	98

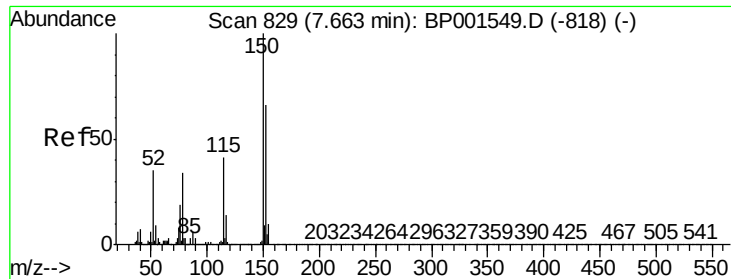
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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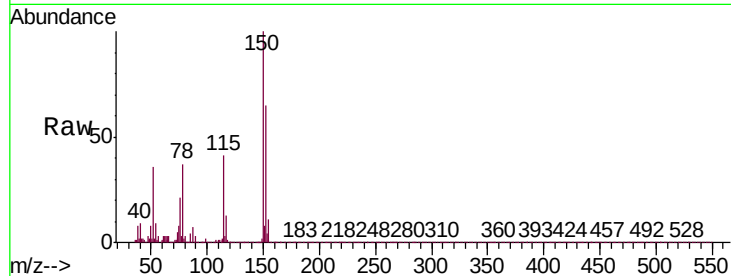


#1

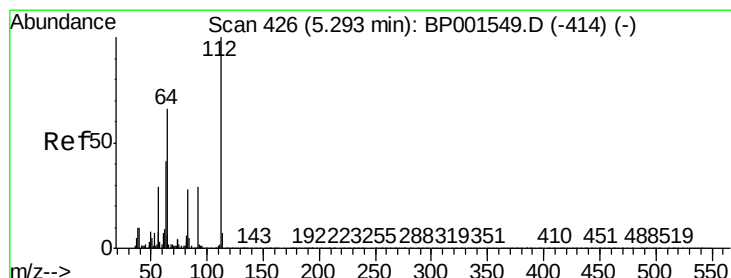
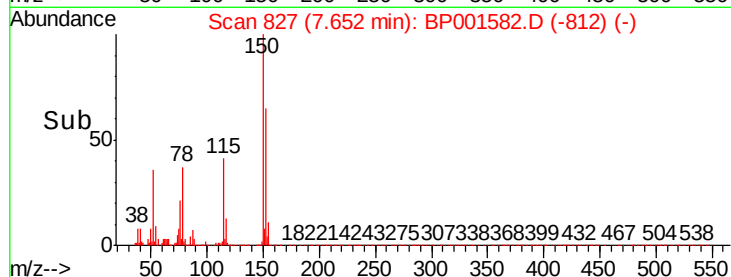
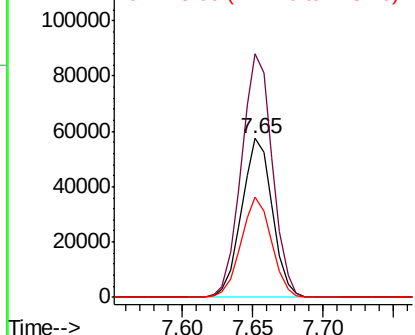
1,4-Dichlorobenzene-d4
Concen: 40.000 ng
RT: 7.65 min Scan# 827
Delta R.T. -0.01 min
Lab File: BP001582.D
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Instrument :
BNA_P
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SU-02-010720

Tgt Ion:152 Resp: 87476
Ion Ratio Lower Upper
152 100
150 153.4 122.0 183.0
115 63.3 50.7 76.1



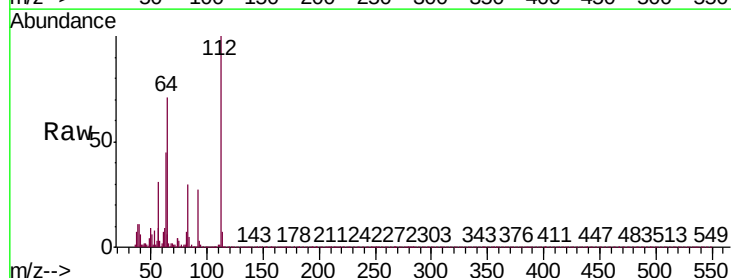
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



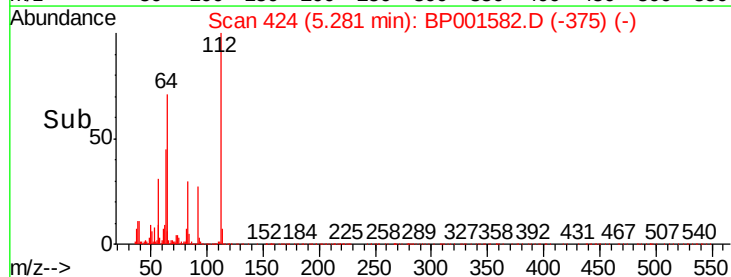
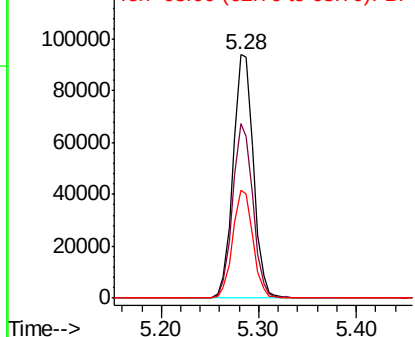
#5

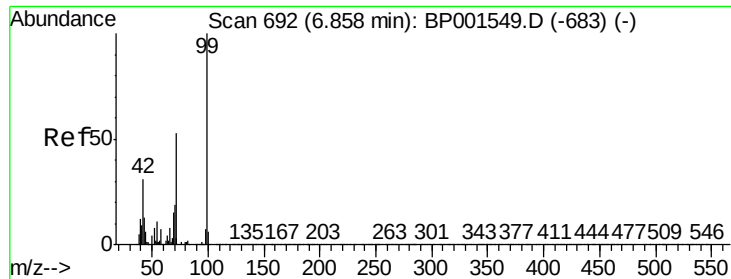
2-Fluorophenol
Concen: 60.621 ng
RT: 5.28 min Scan# 424
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

Tgt Ion:112 Resp: 135354
Ion Ratio Lower Upper
112 100
64 71.5 52.8 79.2
63 44.6 33.1 49.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BP0
Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 55.052 ng

RT: 6.85 min Scan# 690

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

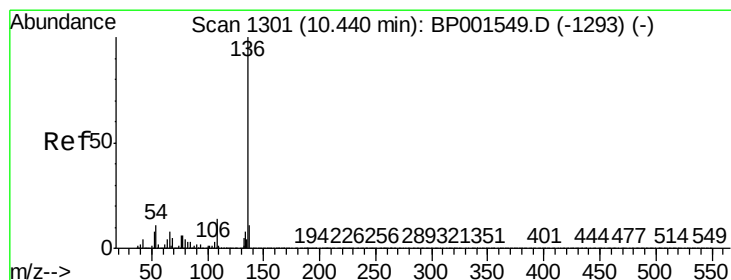
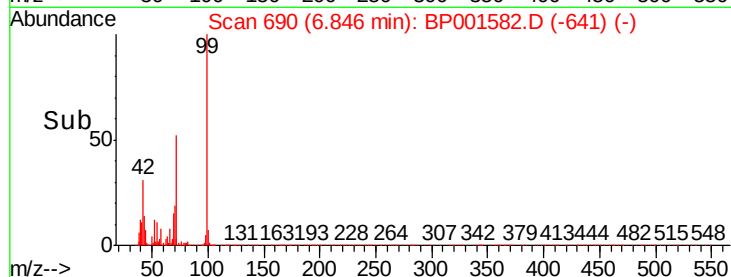
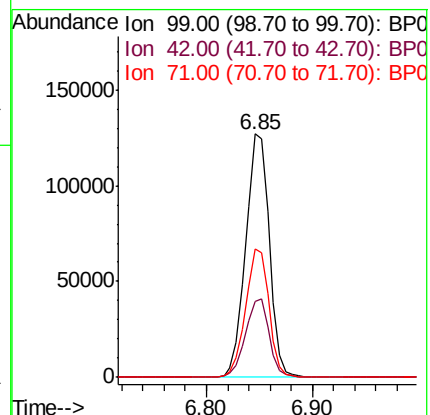
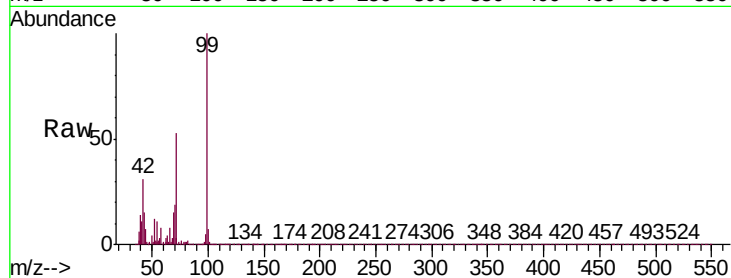
Tgt Ion: 99 Resp: 196450

Ion Ratio Lower Upper

99 100

42 31.0 24.5 36.7

71 52.6 42.4 63.6



#21

Naphthalene-d8

Concen: 40.000 ng

RT: 10.43 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Tgt Ion: 136 Resp: 336115

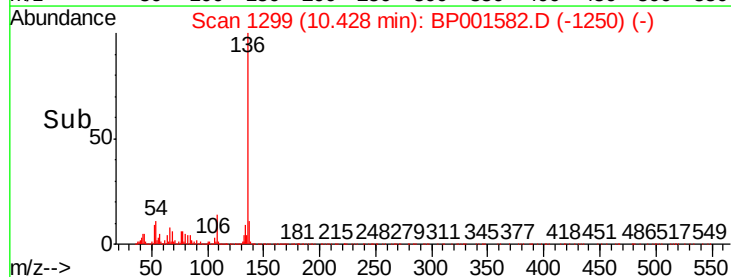
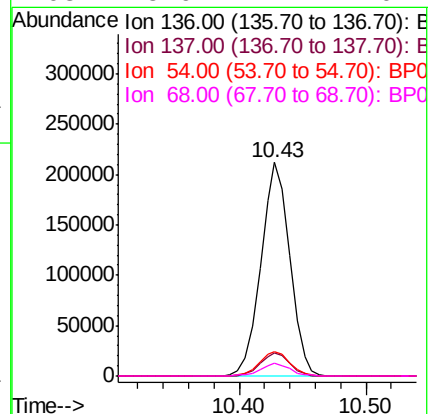
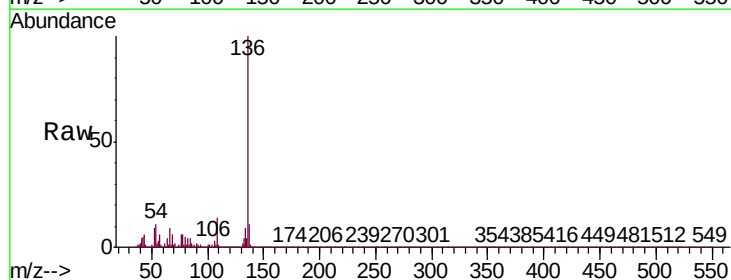
Ion Ratio Lower Upper

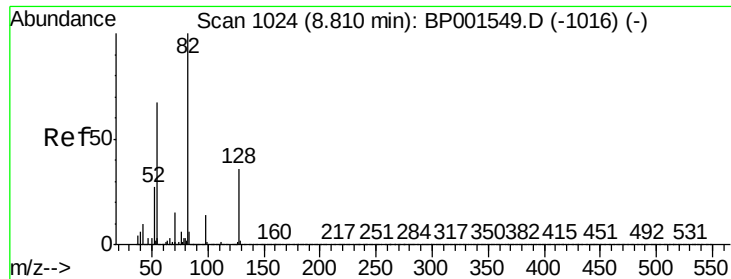
136 100

137 10.9 8.6 12.8

54 11.4 9.2 13.8

68 5.9 4.1 6.1

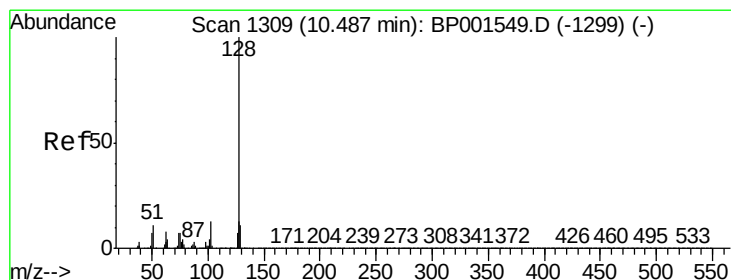
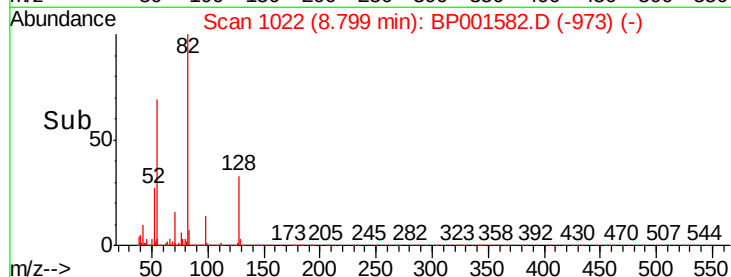
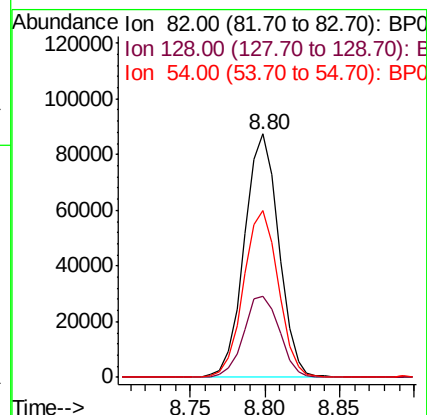
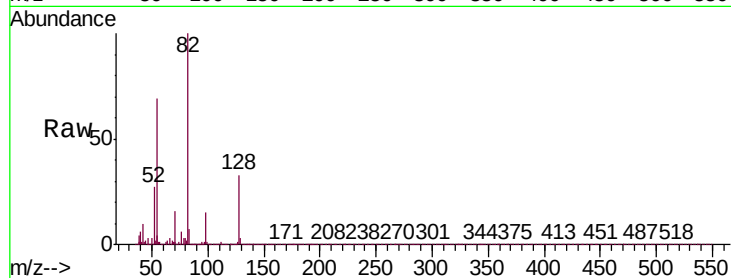




#23
 Nitrobenzene-d5
 Concen: 35.979 ng
 RT: 8.80 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BP001582.D
 Acq: 09 Jan 2020 16:51

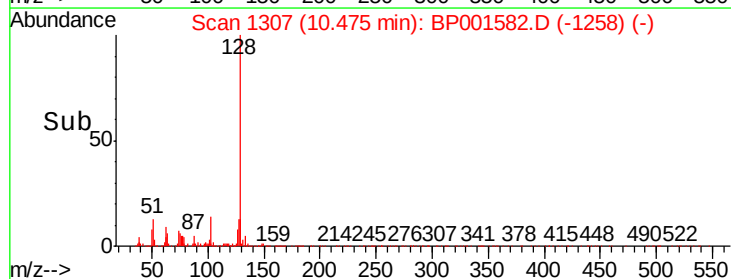
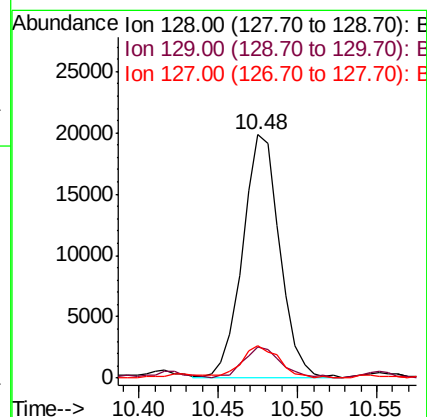
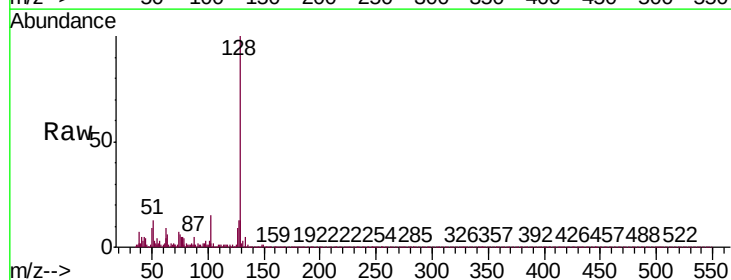
Instrument :
 BNA_P
 ClientSampleId :
 SU-02-010720

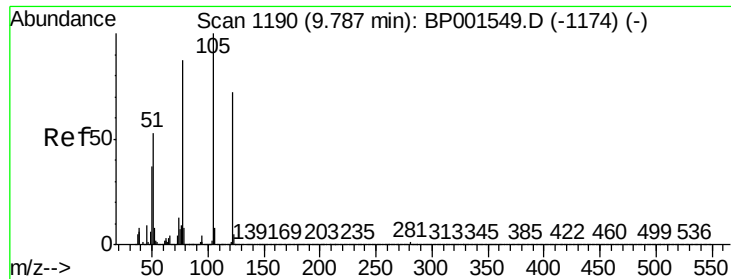
Tgt Ion	Ratio	Lower	Upper
82	100		
128	33.2	28.4	42.6
54	68.7	53.4	80.2



#31
 Naphthalene
 Concen: 3.625 ng
 RT: 10.48 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BP001582.D
 Acq: 09 Jan 2020 16:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.9	8.9	13.3
127	13.2	10.6	16.0

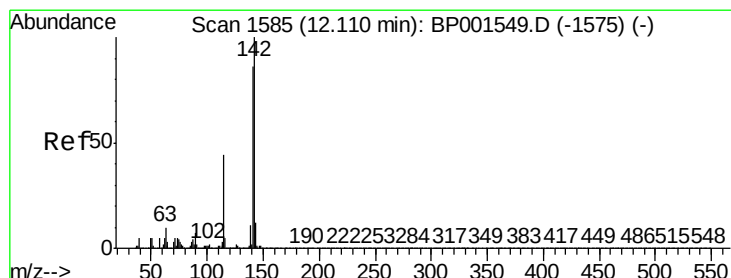
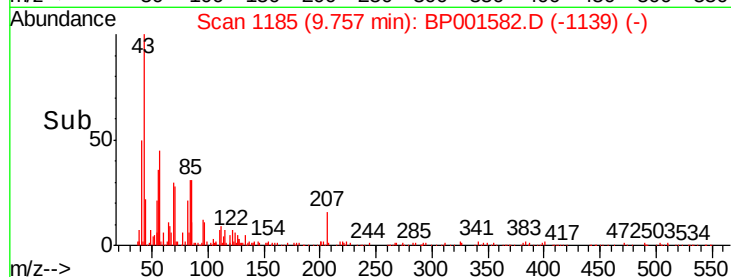
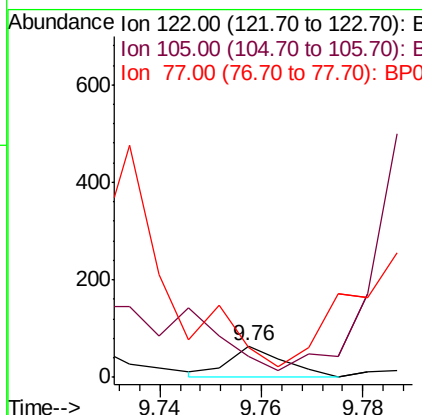
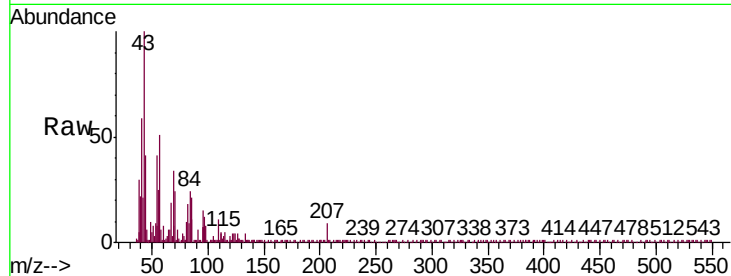




#32
Benzoic acid
Concen: 9.428 ng
RT: 9.76 min Scan# 1185
Delta R.T. -0.03 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

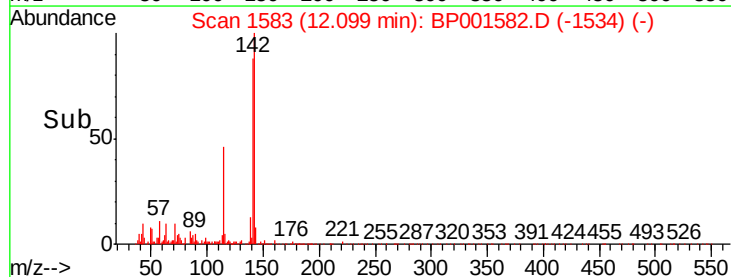
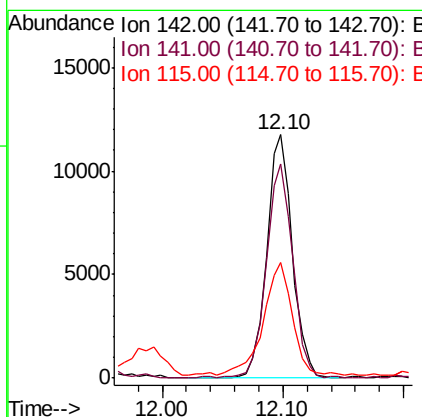
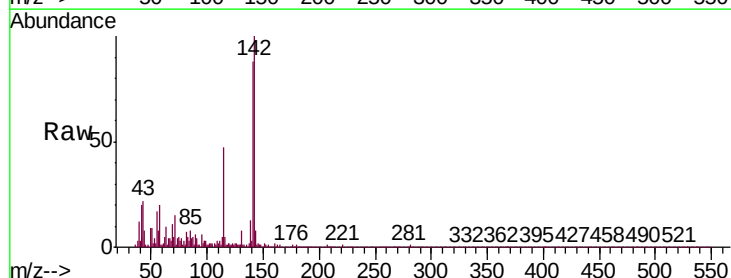
Instrument :
BNA_P
ClientSampleId :
SU-02-010720

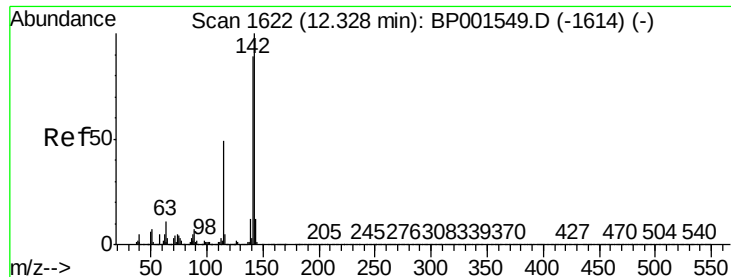
Tgt Ion	Ratio	Lower	Upper
122	100		
105	79.7	119.5	159.5#
77	93.8	102.8	142.8#



#37
2-Methylnaphthalene
Concen: 2.448 ng
RT: 12.10 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.8	68.4	102.6
115	47.3	35.1	52.7





#38

1-Methylnaphthalene

Concen: 2.533 ng

RT: 12.10 min Scan# 1583

Delta R.T. -0.23 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

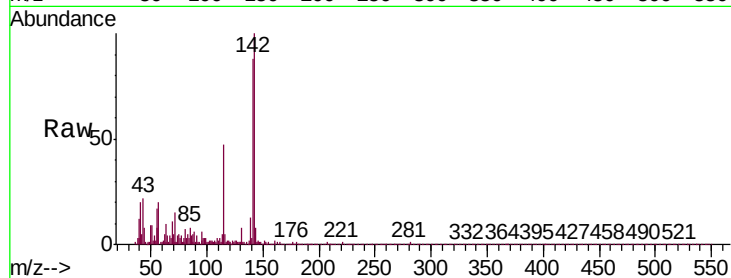
Tgt Ion:142 Resp: 17228

Ion Ratio Lower Upper

142 100

141 87.8 70.9 106.3

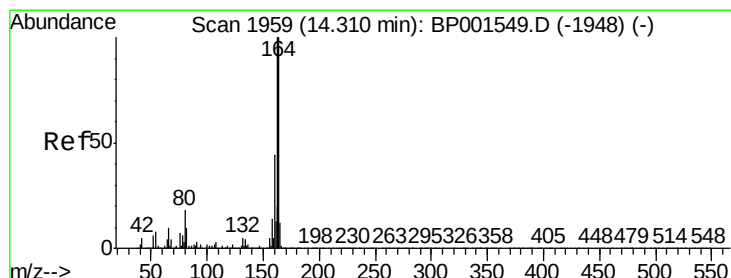
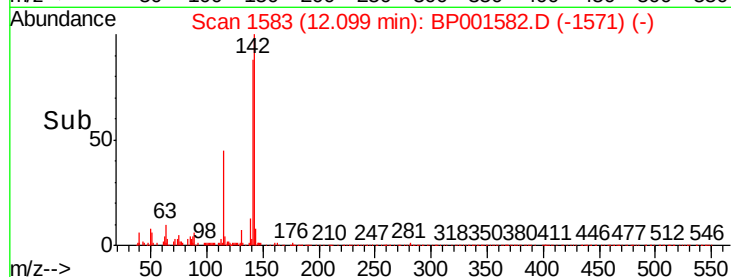
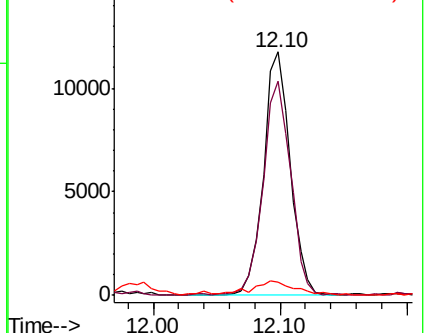
116 5.3 4.1 6.1



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: 40.000 ng

RT: 14.30 min Scan# 1957

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

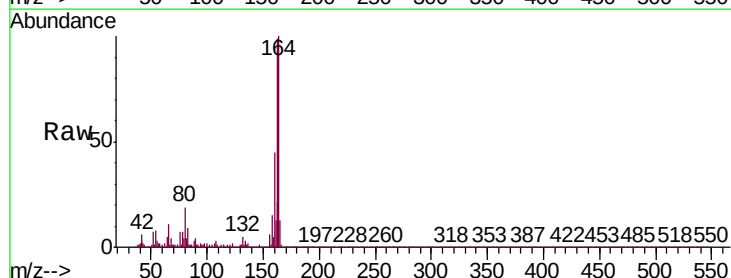
Tgt Ion:164 Resp: 222535

Ion Ratio Lower Upper

164 100

162 99.0 79.8 119.6

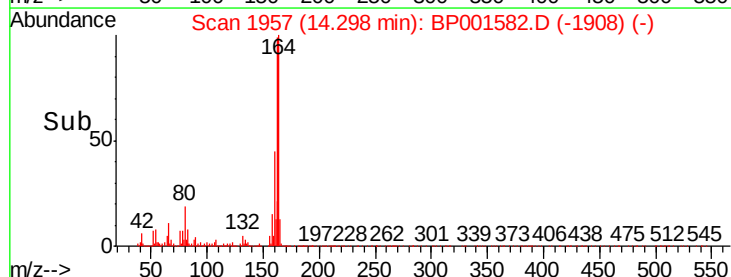
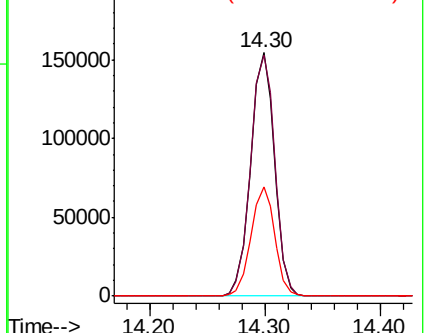
160 44.8 35.0 52.6

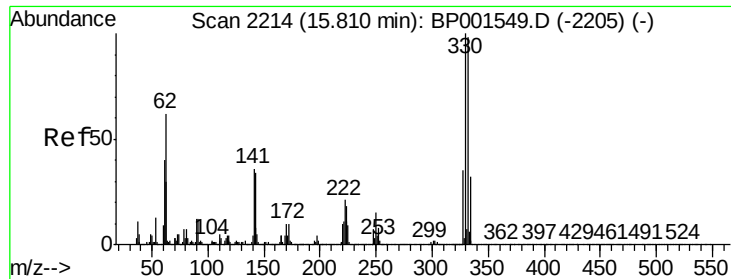


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

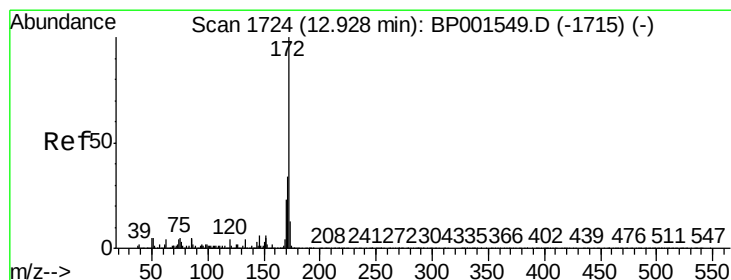
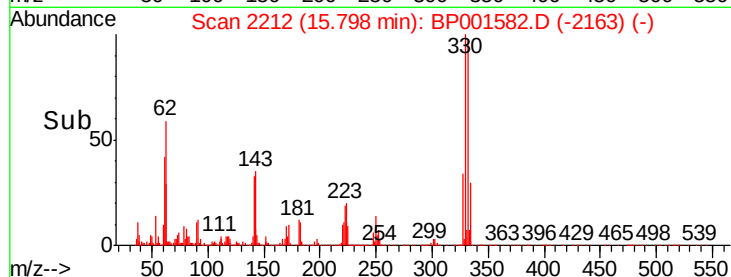
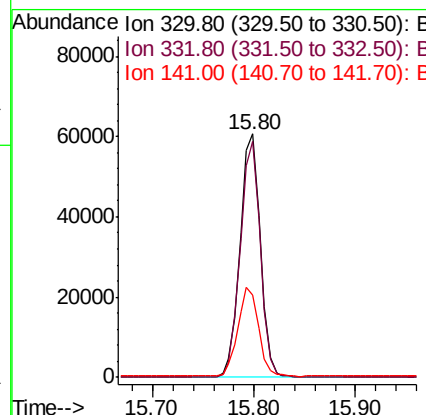
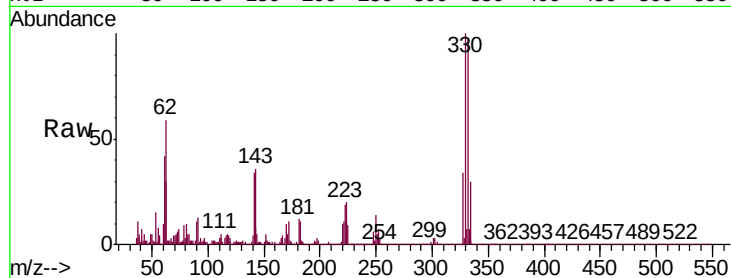




#42
2,4,6-Tribromophenol
Concen: 49.967 ng
RT: 15.80 min Scan# 2212
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

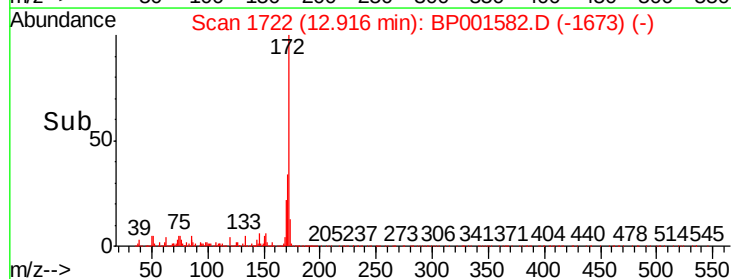
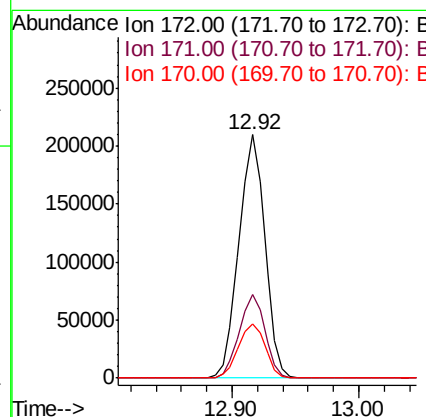
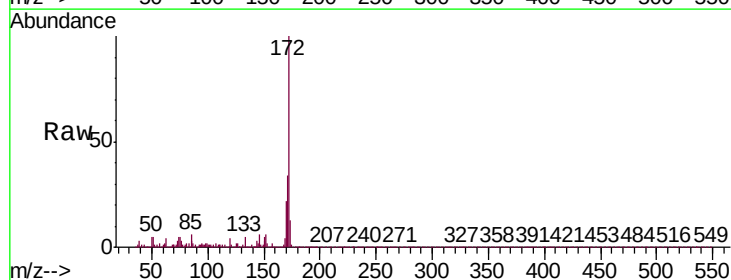
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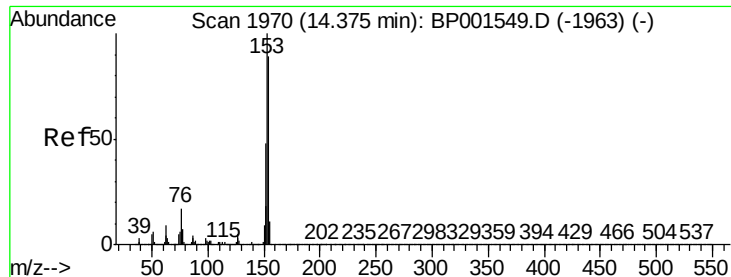
Tgt Ion:330 Resp: 84629
Ion Ratio Lower Upper
330 100
332 95.4 77.8 116.6
141 37.6 28.7 43.1



#45
2-Fluorobiphenyl
Concen: 39.338 ng
RT: 12.92 min Scan# 1722
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

Tgt Ion:172 Resp: 297705
Ion Ratio Lower Upper
172 100
171 34.2 27.6 41.4
170 22.5 18.3 27.5





#52

Acenaphthene

Concen: 2.709 ng

RT: 14.36 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

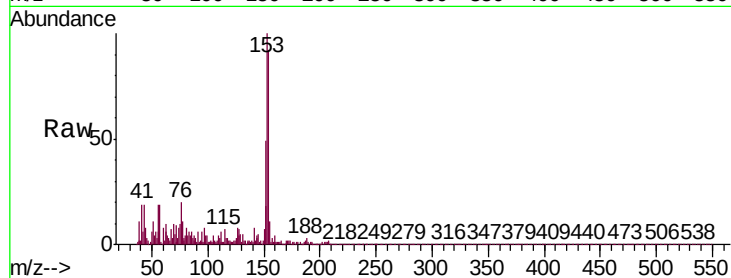
Tgt Ion:154 Resp: 17145

Ion Ratio Lower Upper

154 100

153 108.3 89.4 134.2

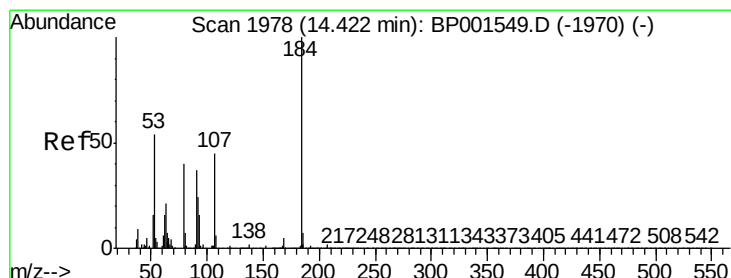
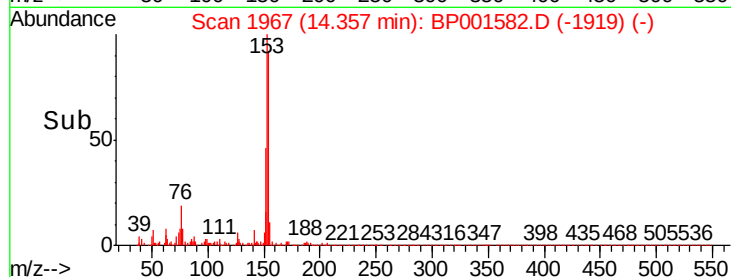
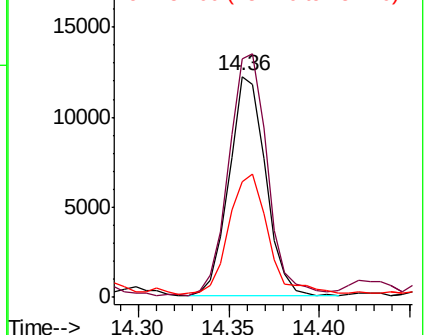
152 52.7 42.6 64.0



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: 5.242 ng

RT: 14.46 min Scan# 1984

Delta R.T. 0.04 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

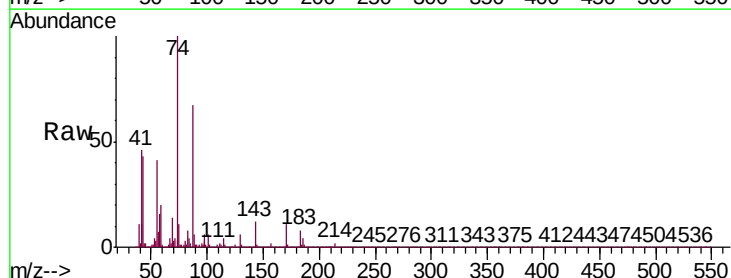
Tgt Ion:184 Resp: 5728

Ion Ratio Lower Upper

184 100

63 10.6 59.7 89.5#

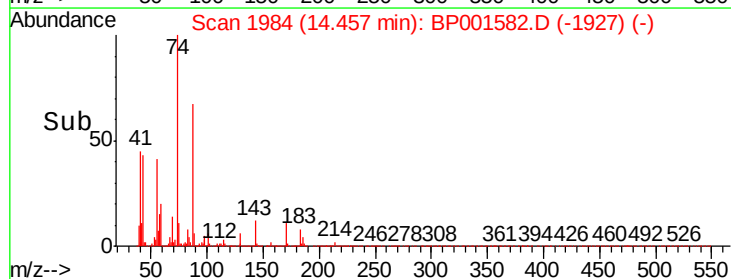
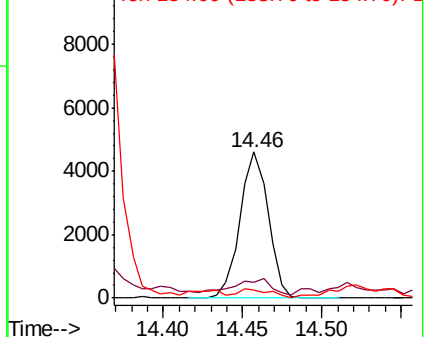
154 5.3 53.9 80.9#

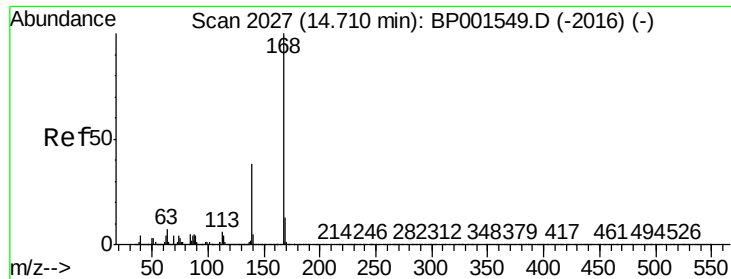


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E





#55

Dibenzenofuran

Concen: 2.381 ng

RT: 14.70 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

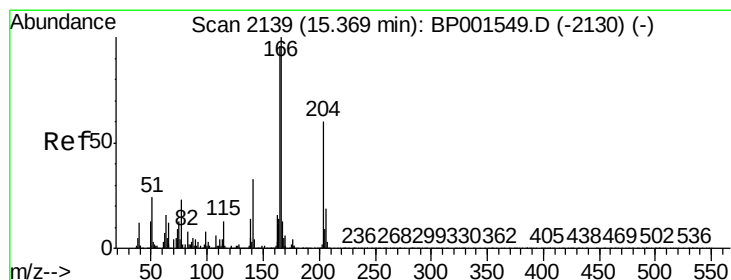
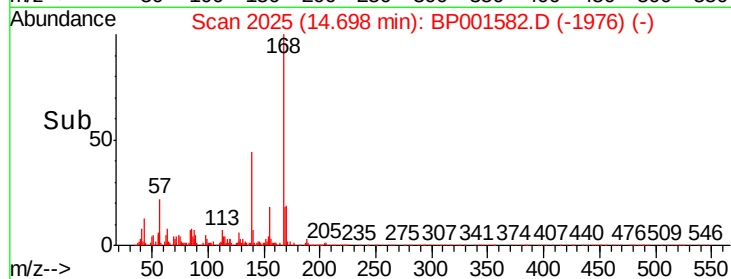
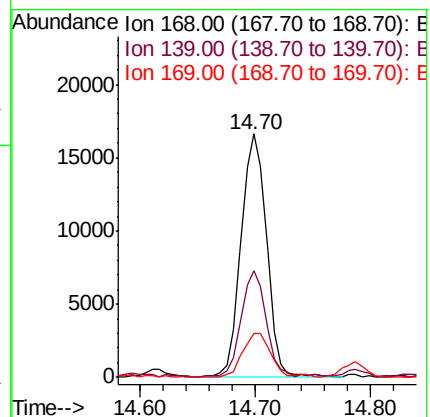
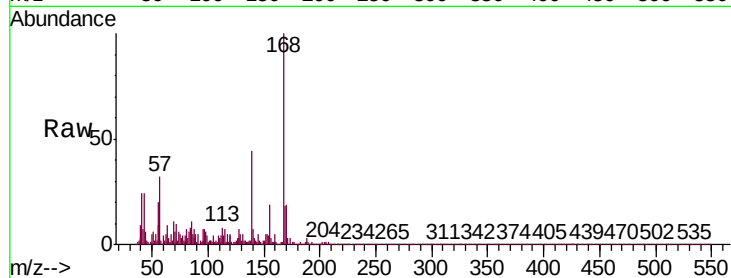
Tgt Ion:168 Resp: 25481

Ion Ratio Lower Upper

168 100

139 43.6 30.2 45.4

169 18.0 10.6 16.0#



#58

Fluorene

Concen: 4.712 ng

RT: 15.35 min Scan# 2136

Delta R.T. -0.02 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

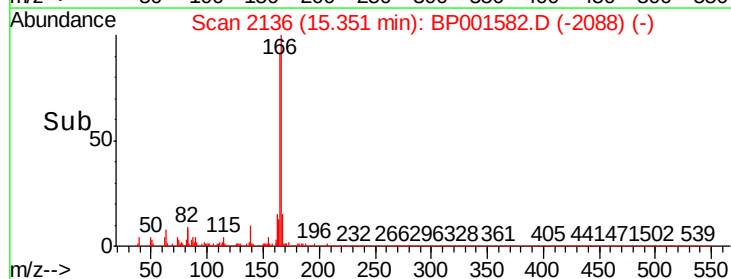
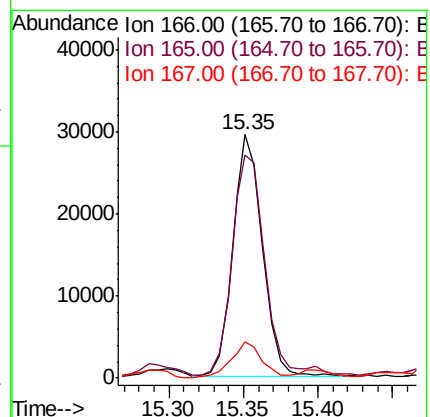
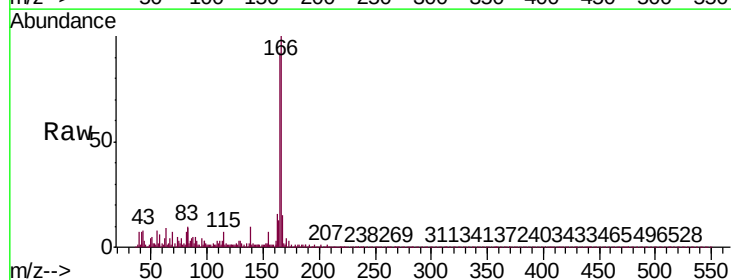
Tgt Ion:166 Resp: 40811

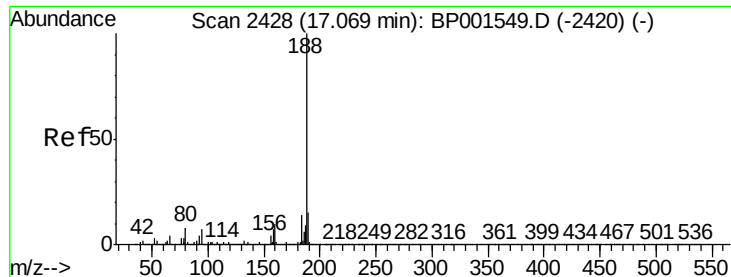
Ion Ratio Lower Upper

166 100

165 91.8 76.9 115.3

167 15.0 10.3 15.5





#64

Phenanthrene-d10

Concen: 40.000 ng

RT: 17.06 min Scan# 2426

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

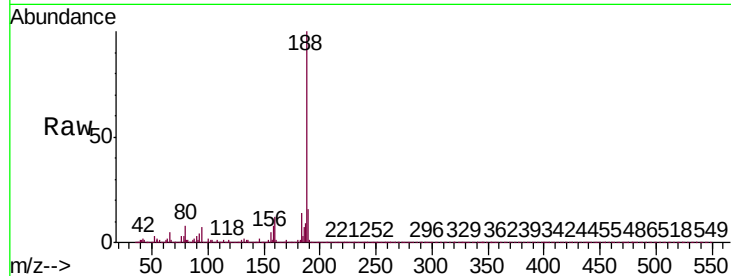
Tgt Ion:188 Resp: 474351

Ion Ratio Lower Upper

188 100

94 6.9 5.9 8.9

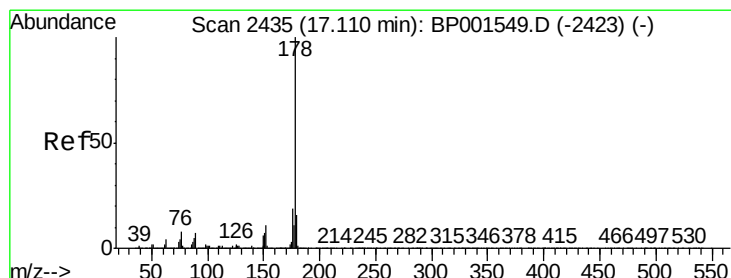
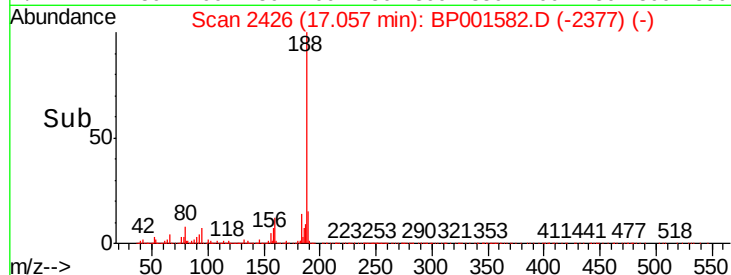
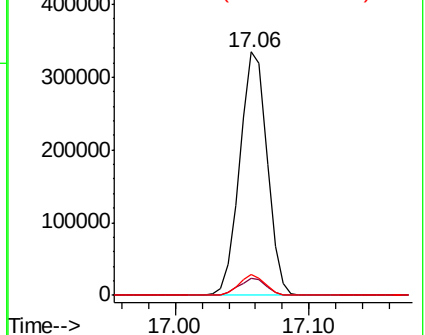
80 8.4 6.8 10.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#71

Phenanthrene

Concen: 32.418 ng

RT: 17.10 min Scan# 2433

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

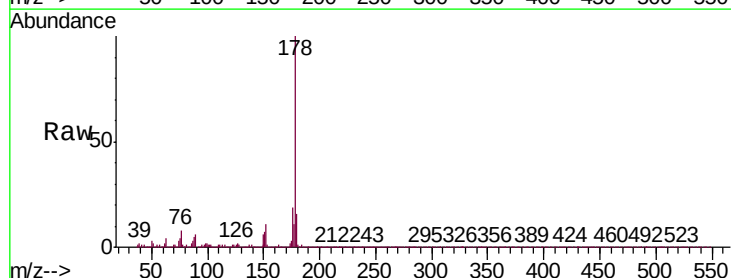
Tgt Ion:178 Resp: 418141

Ion Ratio Lower Upper

178 100

176 19.1 14.9 22.3

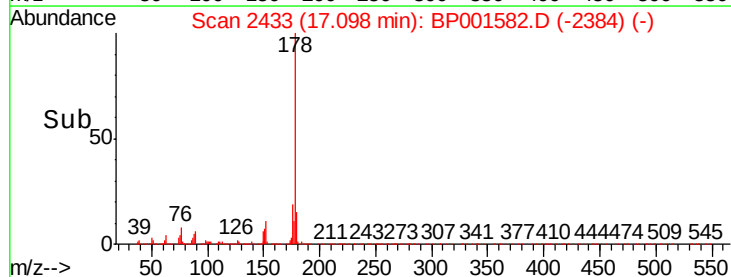
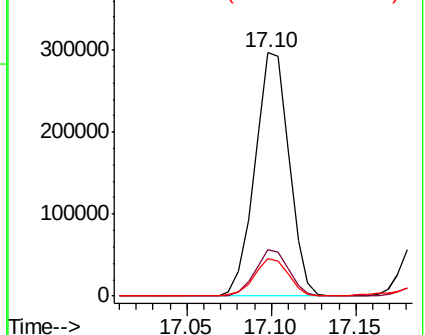
179 15.6 12.5 18.7

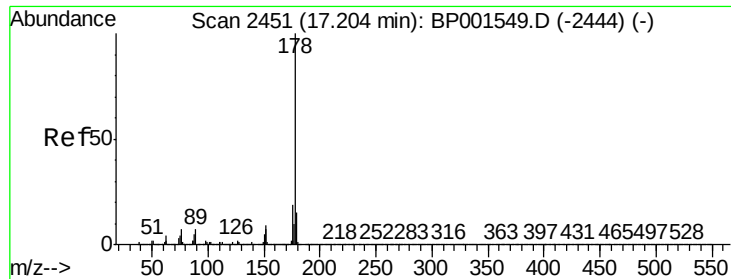


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 10.133 ng

RT: 17.19 min Scan# 2449

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

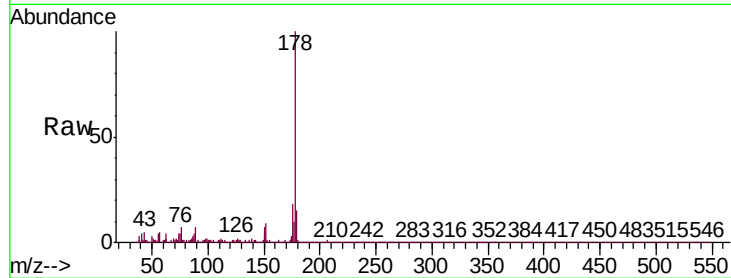
Tgt Ion:178 Resp: 127239

Ion Ratio Lower Upper

178 100

176 17.9 15.0 22.6

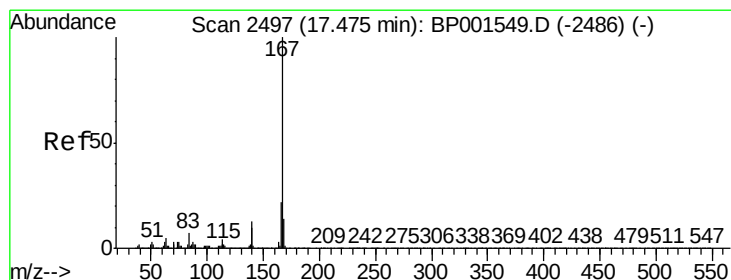
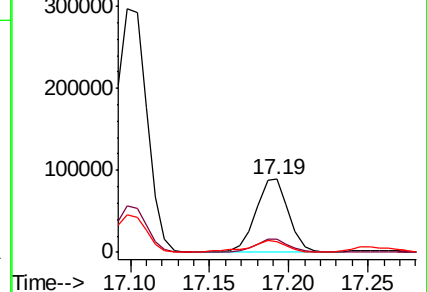
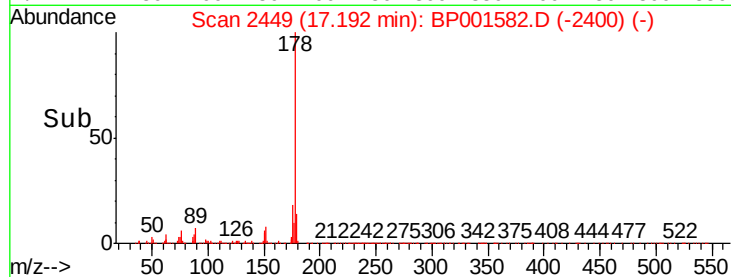
179 14.6 11.8 17.8



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



#73

Carbazole

Concen: 2.023 ng

RT: 17.46 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

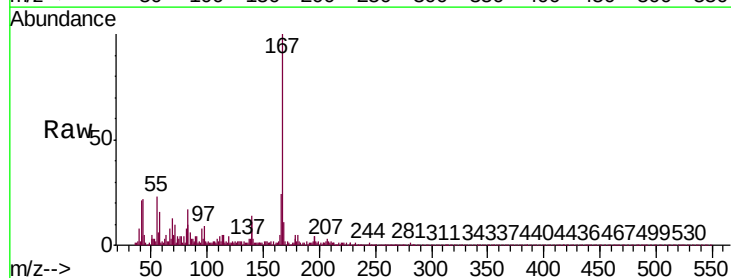
Tgt Ion:167 Resp: 23848

Ion Ratio Lower Upper

167 100

166 23.9 17.2 25.8

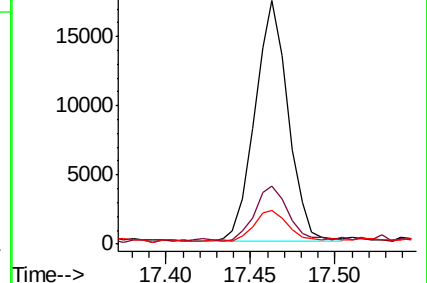
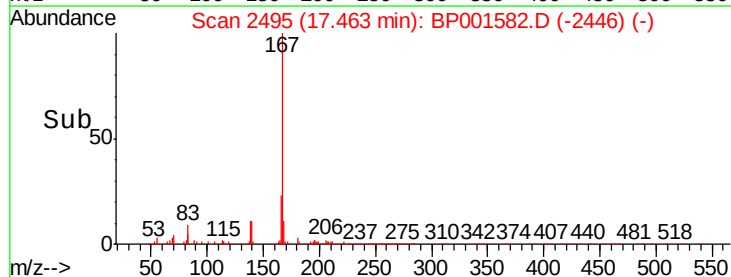
139 14.0 10.0 15.0

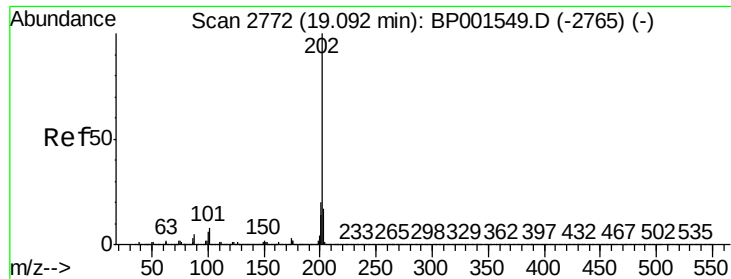


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 39.327 ng

RT: 19.08 min Scan# 2770

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

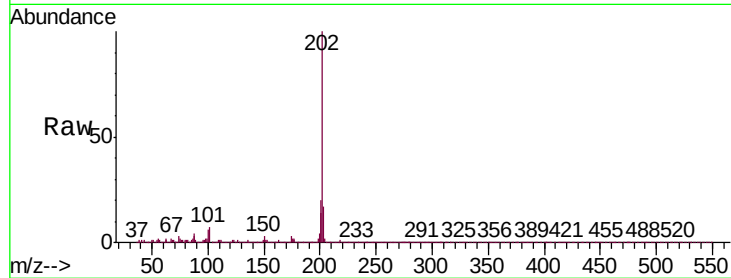
Tgt Ion: 202 Resp: 667459

Ion Ratio Lower Upper

202 100

101 6.9 0.0 28.4

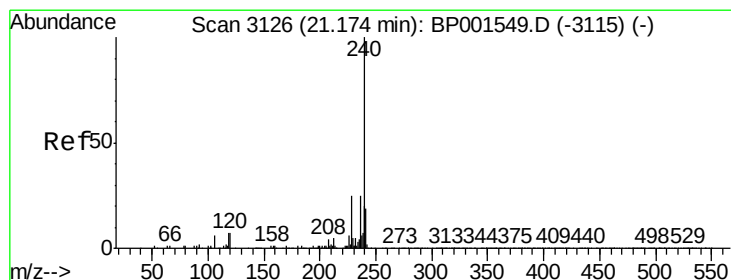
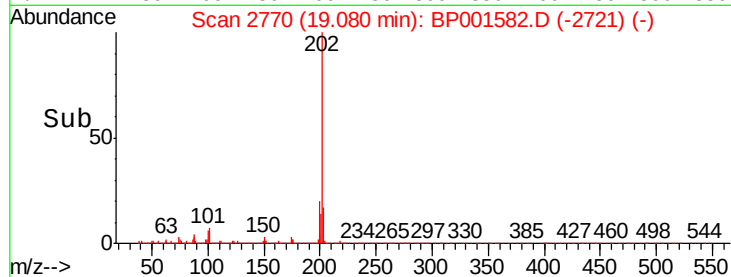
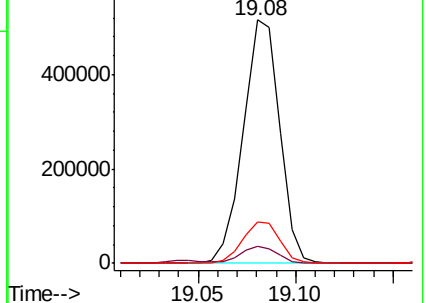
203 17.2 0.0 37.4



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: 40.000 ng

RT: 21.16 min Scan# 3124

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

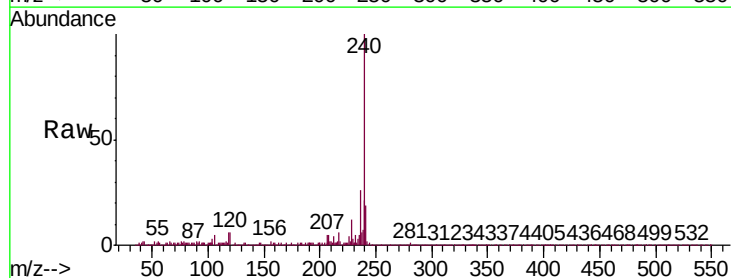
Tgt Ion: 240 Resp: 367885

Ion Ratio Lower Upper

240 100

120 6.1 5.7 8.5

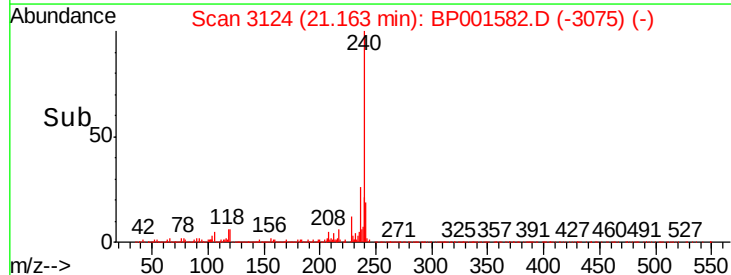
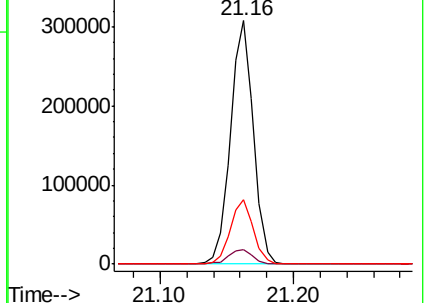
236 26.4 20.4 30.6

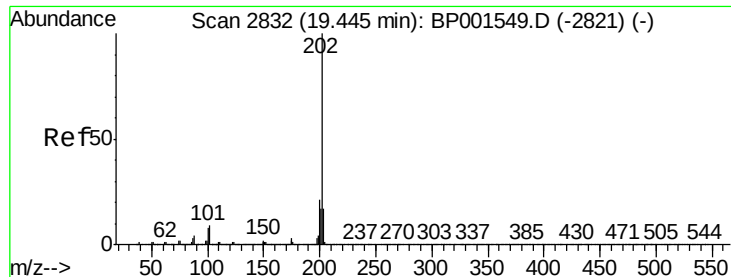


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 43.090 ng

RT: 19.43 min Scan# 2830

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

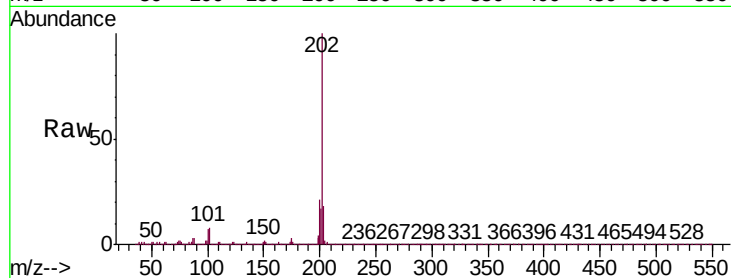
Tgt Ion: 202 Resp: 582231

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.6

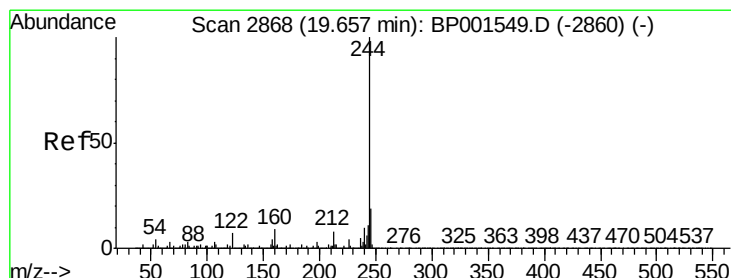
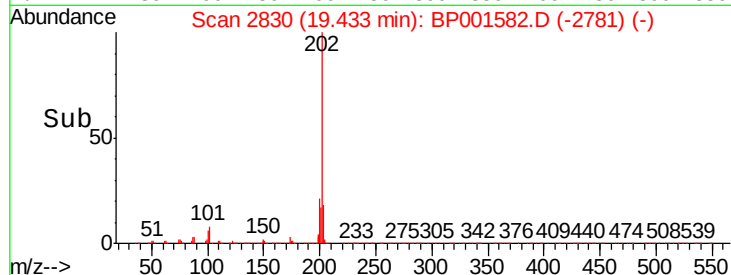
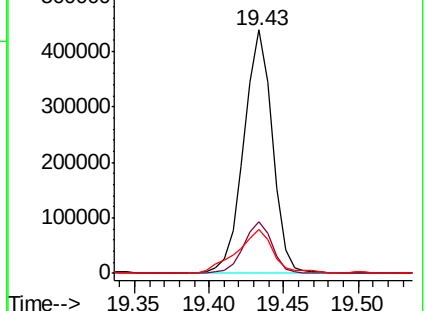
203 17.9 13.7 20.5



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: 38.164 ng

RT: 19.65 min Scan# 2866

Delta R.T. -0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

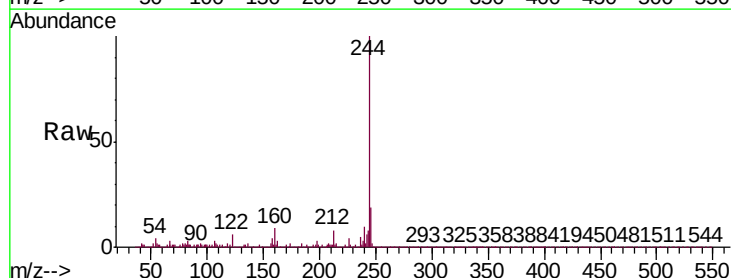
Tgt Ion: 244 Resp: 383811

Ion Ratio Lower Upper

244 100

212 7.9 6.3 9.5

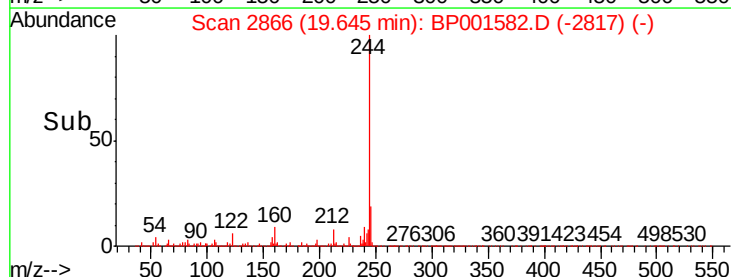
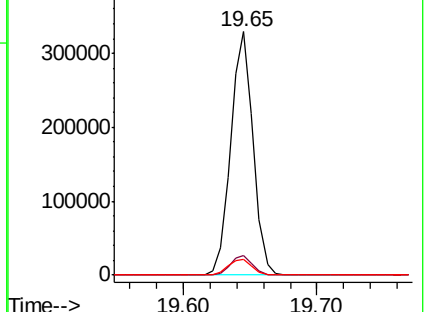
122 6.4 5.8 8.6

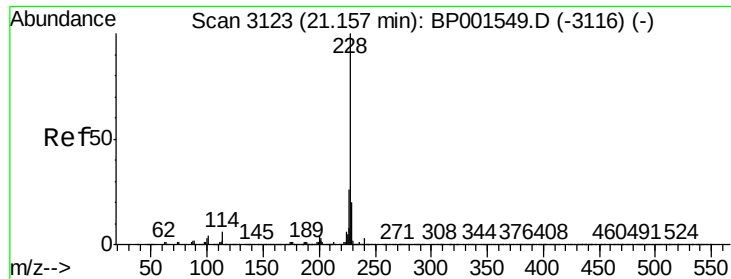


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

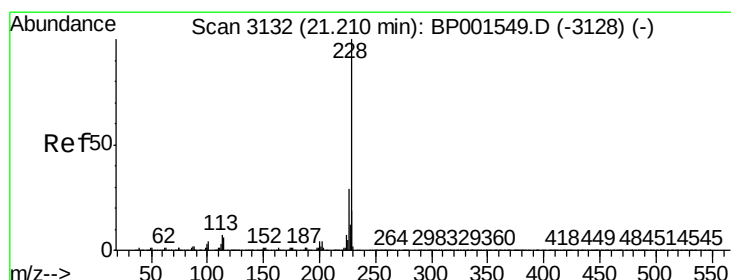
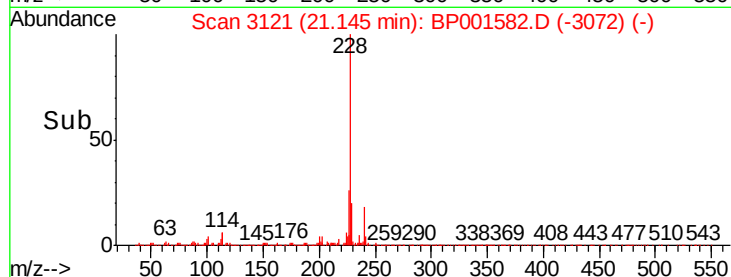
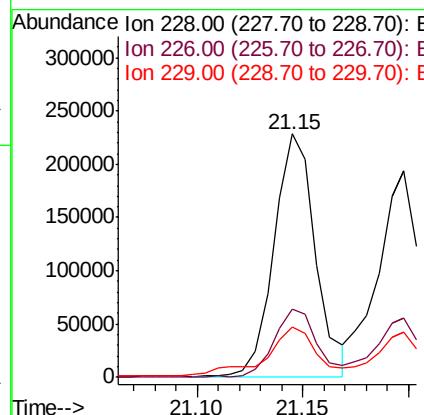
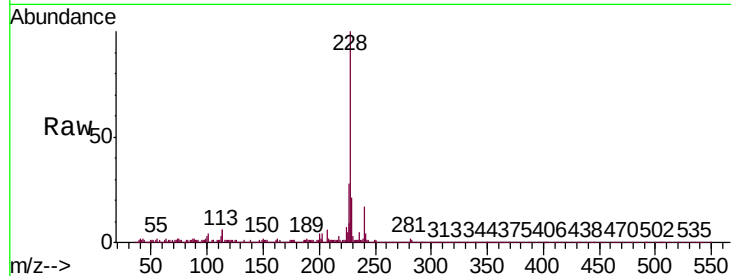




#81
Benzo(a)anthracene
Concen: 24.224 ng
RT: 21.15 min Scan# 3121
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

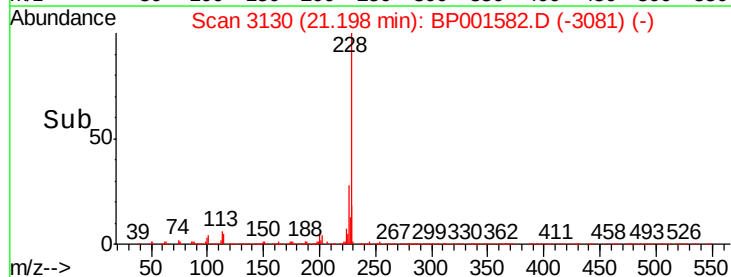
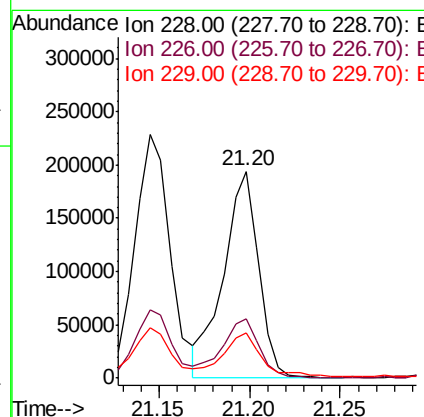
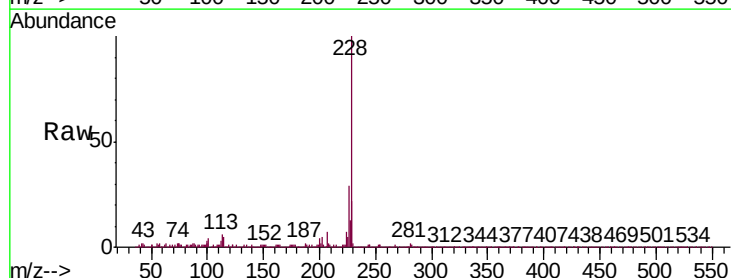
Instrument :
BNA_P
ClientSampleId :
SU-02-010720

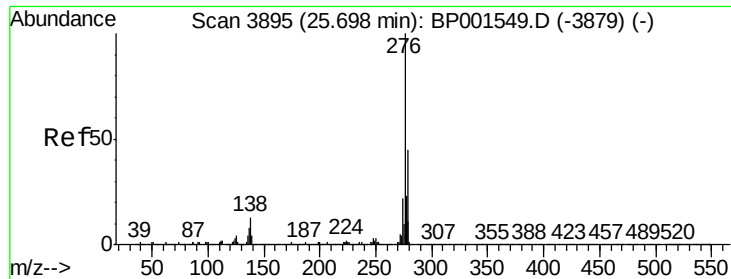
Tgt Ion:	228	Resp:	310315
Ion	Ratio	Lower	Upper
228	100		
226	27.9	21.2	31.8
229	20.5	16.1	24.1



#83
Chrysene
Concen: 20.809 ng
RT: 21.20 min Scan# 3130
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

Tgt Ion:	228	Resp:	259782
Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.2	34.8
229	21.6	15.2	22.8

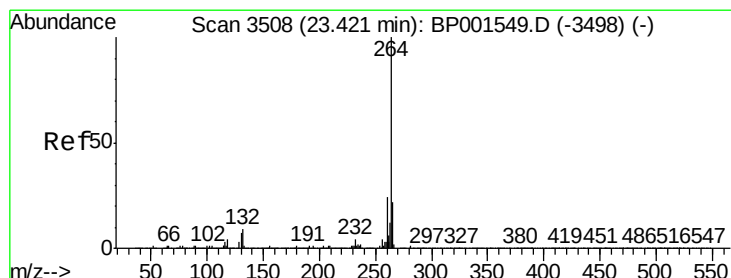
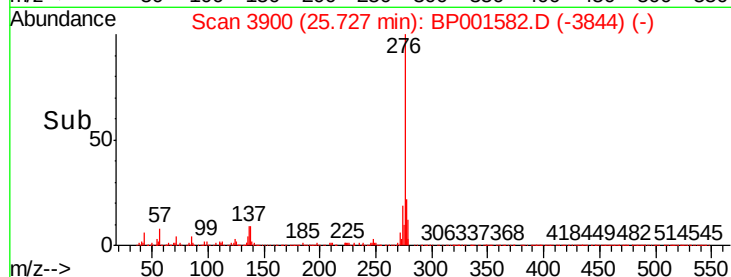
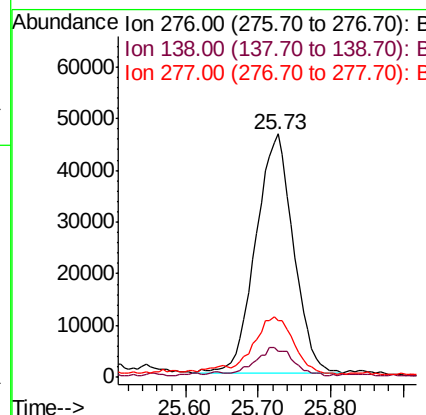
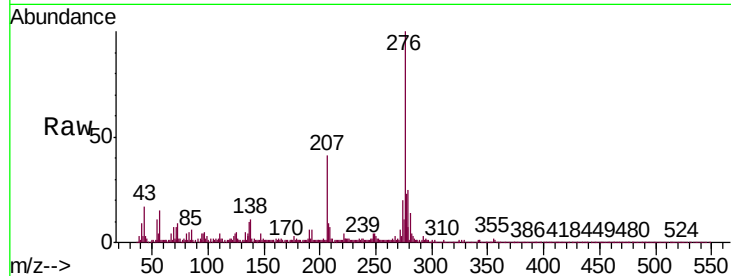




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.482 ng
 RT: 25.73 min Scan# 3900
 Delta R.T. 0.03 min
 Lab File: BP001582.D
 Acq: 09 Jan 2020 16:51

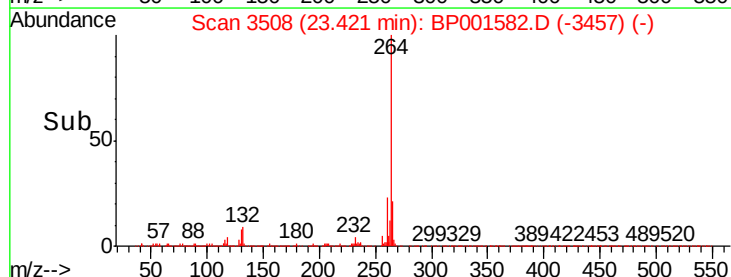
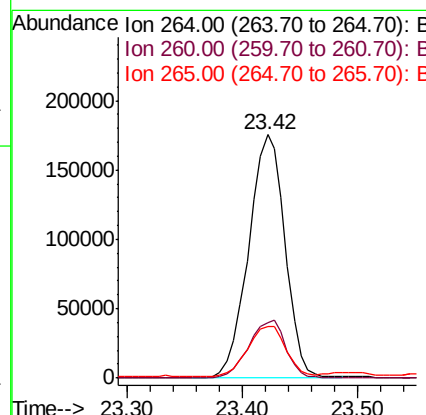
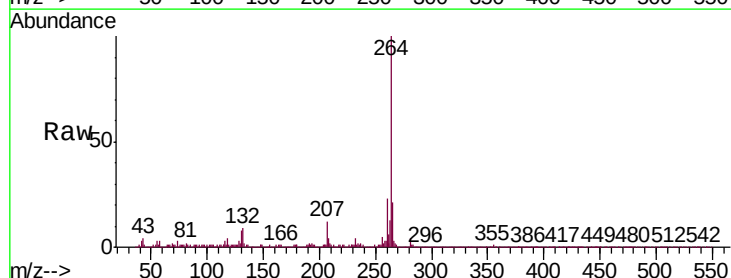
Instrument :
 BNA_P
 ClientSampleId :
 SU-02-010720

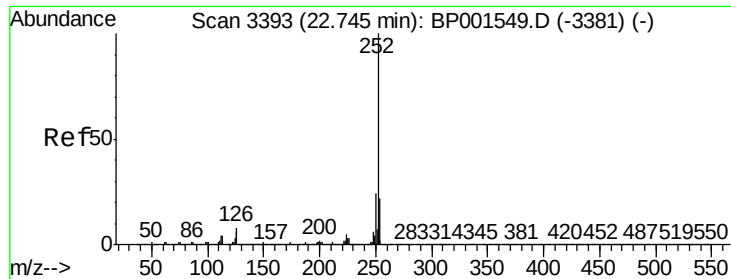
Tgt Ion	Ratio	Lower	Upper
276	100		
138	11.2	11.1	16.7
277	24.8	20.4	30.6



#87
 Perylene-d12
 Concen: 40.000 ng
 RT: 23.42 min Scan# 3508
 Delta R.T. 0.00 min
 Lab File: BP001582.D
 Acq: 09 Jan 2020 16:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.6
265	21.4	18.2	27.4

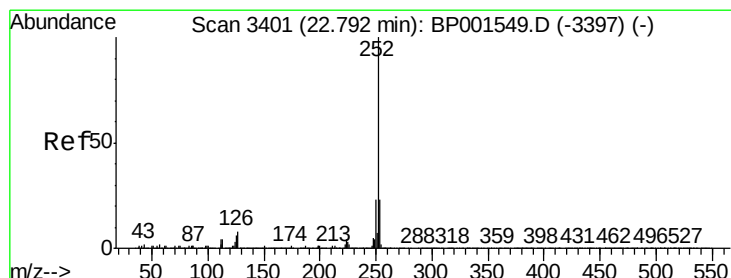
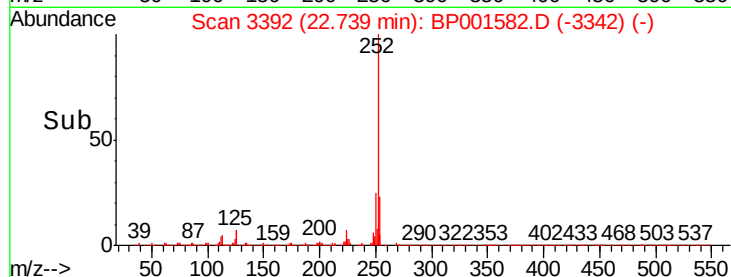
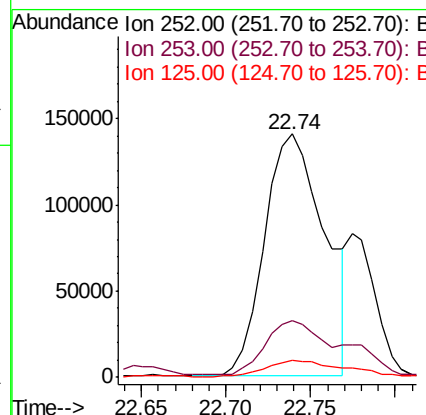
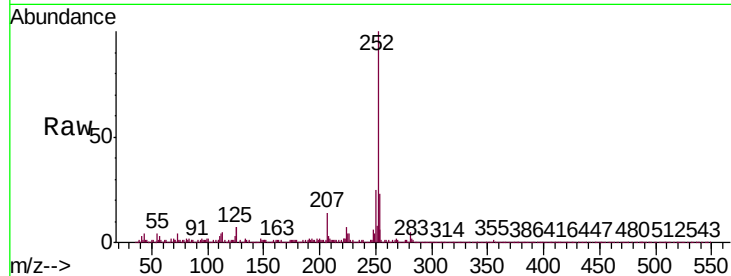




#88
Benzo(b)fluoranthene
Concen: 28.830 ng
RT: 22.74 min Scan# 3392
Delta R.T. -0.01 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

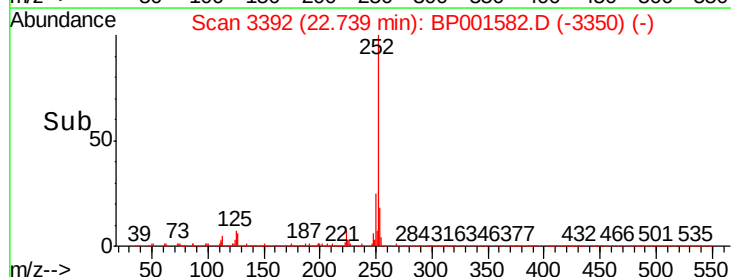
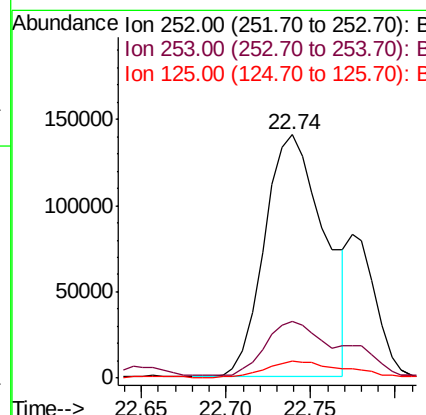
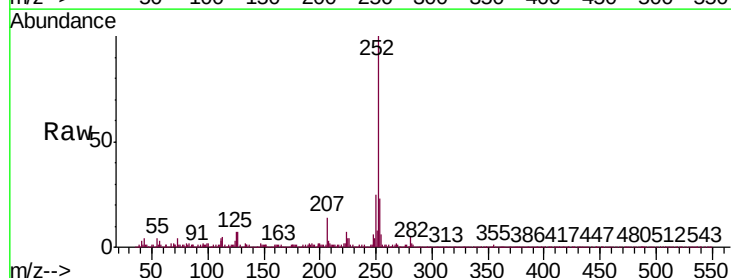
Instrument :
BNA_P
ClientSampleId :
SU-02-010720

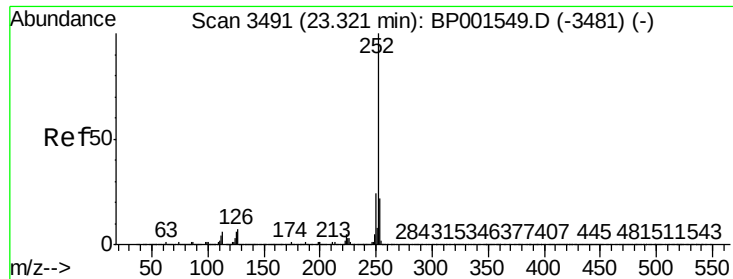
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	7.1	4.6	7.0#



#89
Benzo(k)fluoranthene
Concen: 29.569 ng
RT: 22.74 min Scan# 3392
Delta R.T. -0.05 min
Lab File: BP001582.D
Acq: 09 Jan 2020 16:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	7.1	4.6	6.8#





#90

Benzo(a)pyrene

Concen: 22.654 ng

RT: 23.32 min Scan# 3491

Delta R.T. 0.00 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

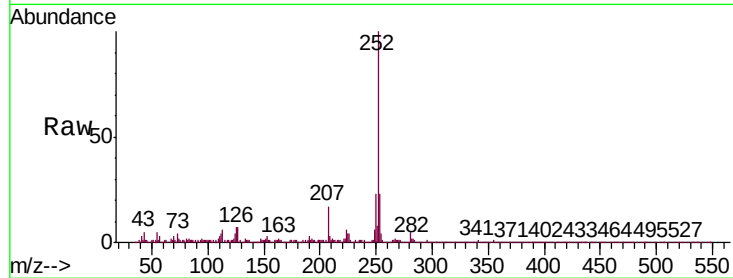
Tgt Ion:252 Resp: 259471

Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

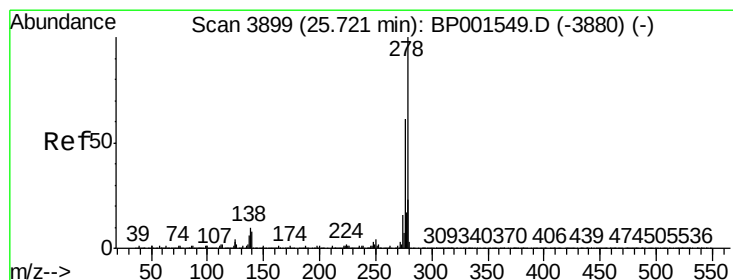
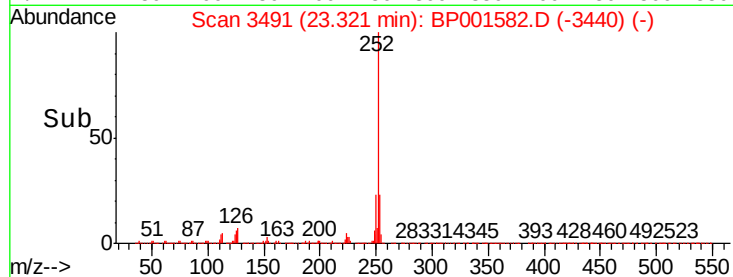
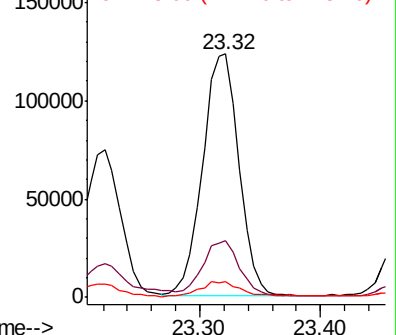
125 6.6 5.0 7.4



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: 3.320 ng

RT: 25.73 min Scan# 3900

Delta R.T. 0.01 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

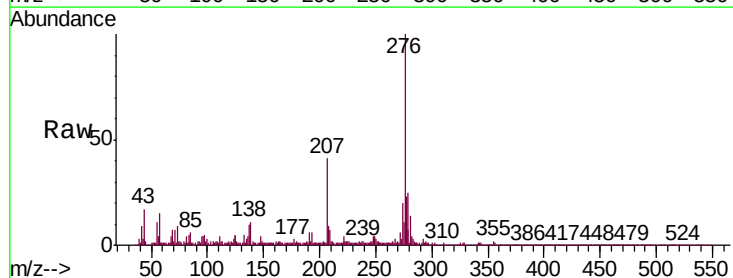
Tgt Ion:278 Resp: 39237

Ion Ratio Lower Upper

278 100

139 9.4 6.7 10.1

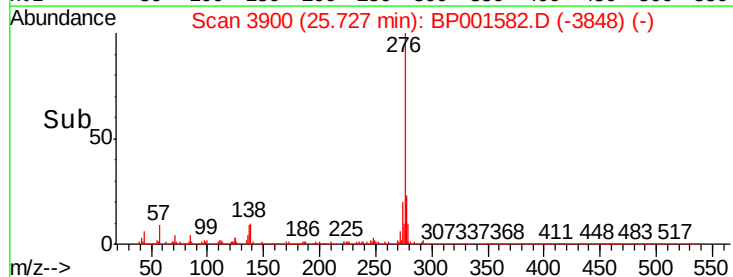
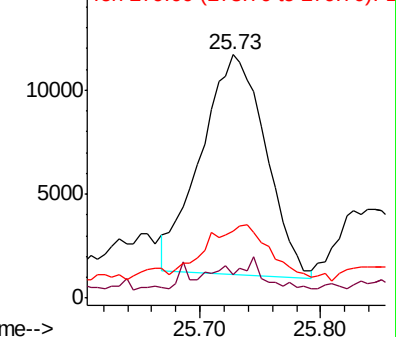
279 27.8 18.6 28.0

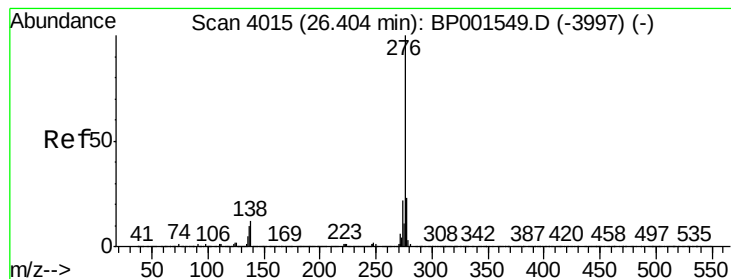


Abundance Ion 278.00 (277.70 to 278.70): E

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: 13.356 ng

RT: 26.43 min Scan# 4020

Delta R.T. 0.03 min

Lab File: BP001582.D

Acq: 09 Jan 2020 16:51

Instrument :

BNA_P

ClientSampleId :

SU-02-010720

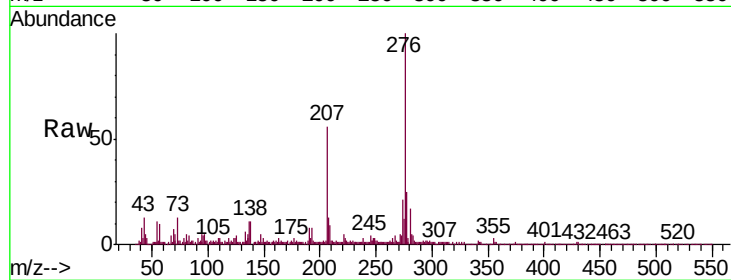
Tgt Ion: 276 Resp: 156905

Ion Ratio Lower Upper

276 100

277 24.5 18.6 28.0

138 11.2 9.4 14.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

