

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091819\
 Data File : BP000313.D
 Acq On : 18 Sep 2019 21:39
 Operator : HP/JU
 Sample : K4878-16 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Sep 19 04:22:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP091619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 16 18:59:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	263544	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	964059	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	513187	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	906302	20.00	ng	0.00
76) Chrysene-d12	14.00	240	728720	20.00	ng	0.00
87) Perylene-d12	15.49	264	777795	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	299467	19.62	ng	0.00
7) Phenol-d6	6.42	99	387153	20.69	ng	0.00
23) Nitrobenzene-d5	7.35	82	178562	11.95	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	100003	19.65	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	459005	16.10	ng	0.00
79) Terphenyl-d14	12.93	244	502043	14.45	ng	0.00

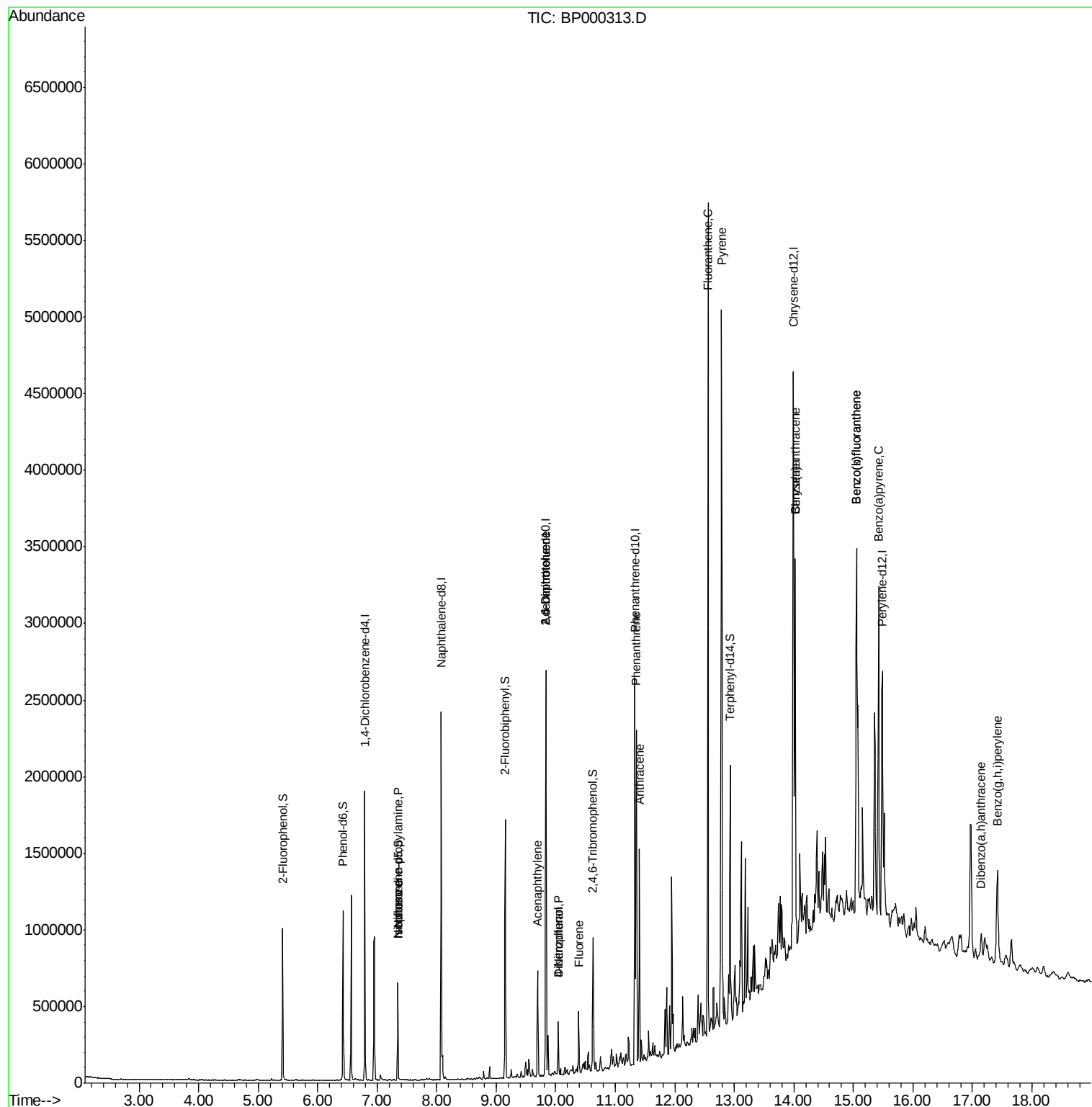
Target Compounds				Qvalue		
9) Benzaldehyde	6.42	77	976	Below Cal	#	16
19) n-Nitroso-di-n-propylamine	7.35	70	22159	2.240 ng	#	76
25) Isophorone	7.35	82	178460	6.032 ng	#	63
49) Acenaphthylene	9.69	152	266071	5.944 ng		100
51) 2,6-Dinitrotoluene	9.83	165	68886	8.960 ng	#	30
55) Dibenzofuran	10.04	168	113941	2.853 ng		99
56) 4-Nitrophenol	10.04	139	42099	6.343 ng	#	15
57) 2,4-Dinitrotoluene	9.83	165	68886	6.854 ng	#	35
58) Fluorene	10.39	166	111285	3.608 ng		99
69) Atrazine	11.01	200	78	Below Cal	#	1
71) Phenanthrene	11.35	178	814539	17.935 ng		99
72) Anthracene	11.40	178	473711	10.133 ng		98
75) Fluoranthene	12.56	202	2094943	42.957 ng		97
78) Pyrene	12.79	202	1886088	34.594 ng		99
81) Benzo(a)anthracene	14.02	228	896373	19.473 ng		95
83) Chrysene	14.02	228	896373	19.833 ng		98
88) Benzo(b)fluoranthene	15.05	252	1872928	40.364 ng		98
89) Benzo(k)fluoranthene	15.05	252	1872928	46.274 ng		98
90) Benzo(a)pyrene	15.42	252	1021765	24.201 ng		96
91) Dibenz(a,h)anthracene	17.15	278	125590	3.190 ng		93
92) Benzo(g,h,i)perylene	17.42	276	522696	12.918 ng		96

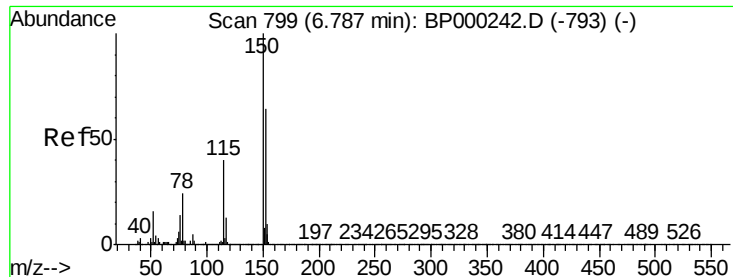
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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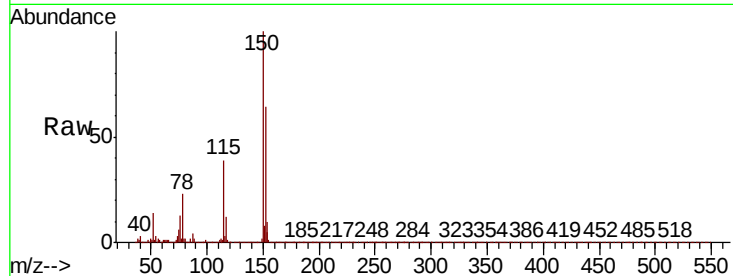


#1

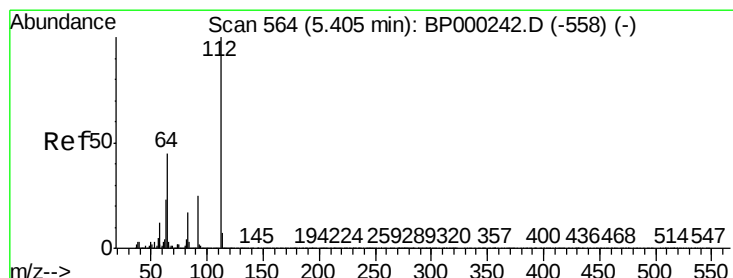
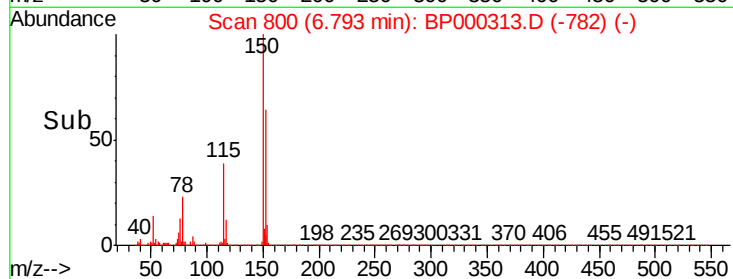
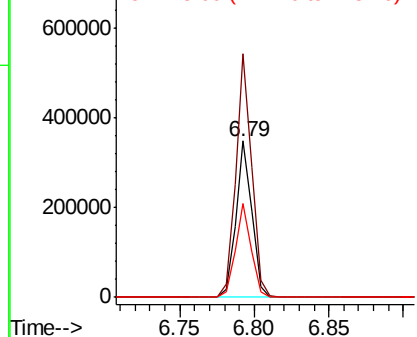
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.01 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Instrument :
BNA_P
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.2	187.8
115	60.4	49.7	74.5



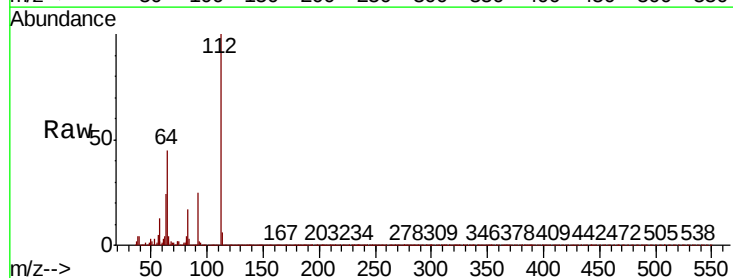
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



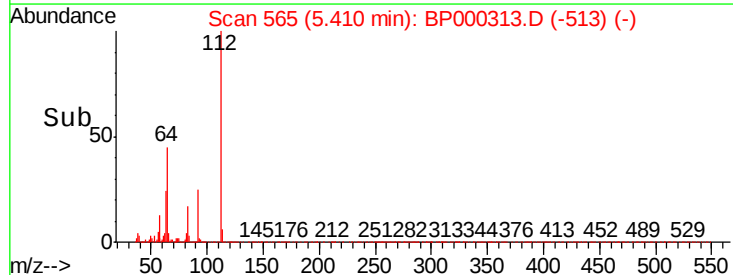
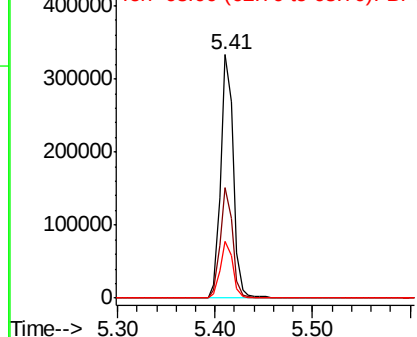
#5

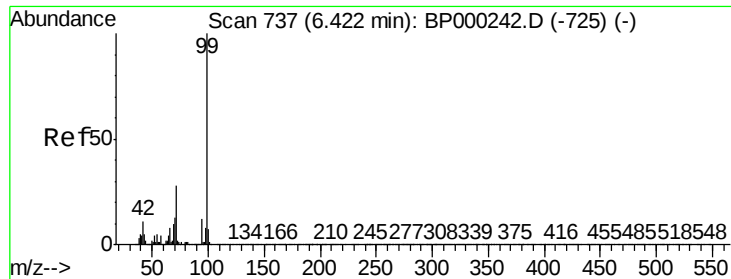
2-Fluorophenol
Concen: 19.617 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	45.5	36.2	54.4
63	23.5	18.3	27.5



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: 20.689 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.00 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

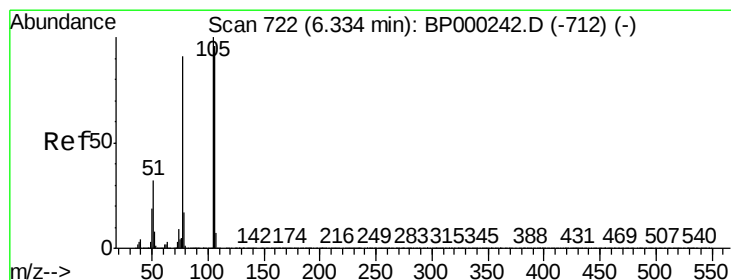
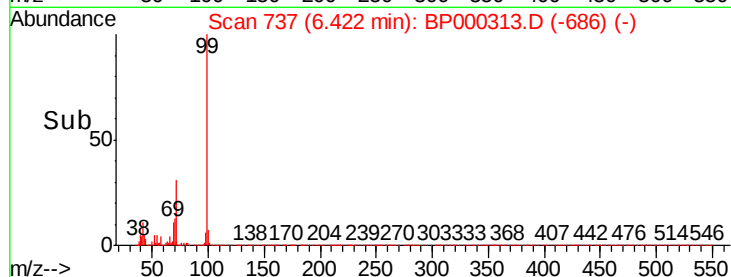
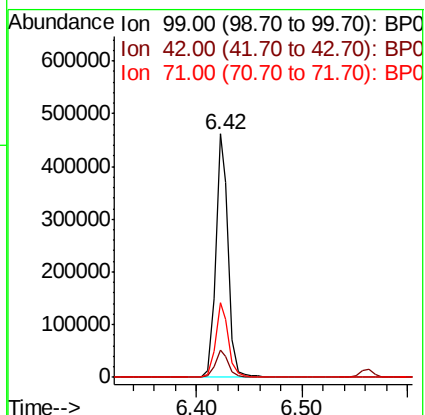
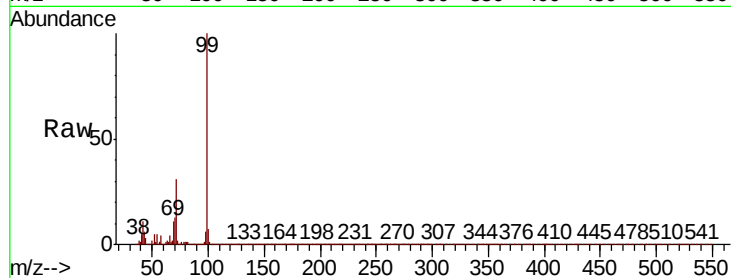
Tot Ion: 99 Resp: 387153

Ion Ratio Lower Upper

99 100

42 11.4 8.5 12.7

71 30.8 22.6 34.0



#9

Benzaldehyde

Concen: Below Cal

RT: 6.42 min Scan# 737

Delta R.T. 0.09 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

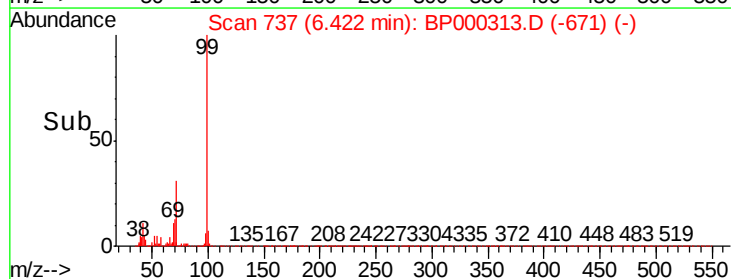
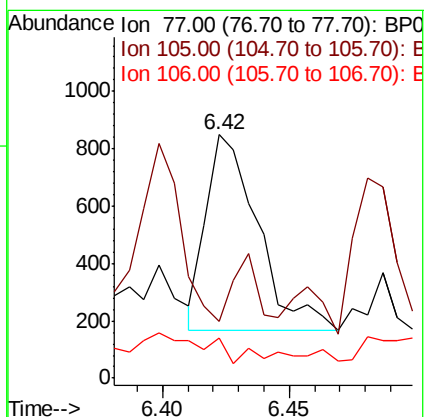
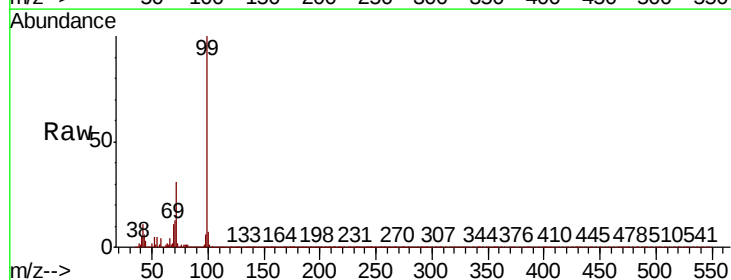
Tgt Ion: 77 Resp: 976

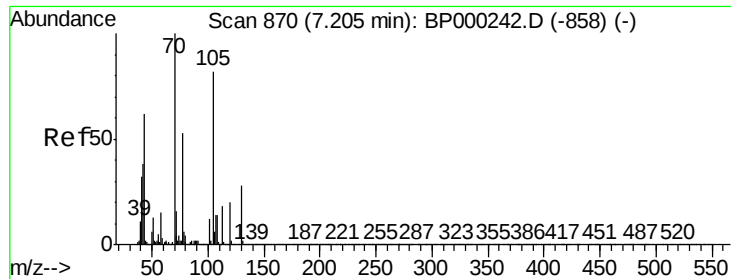
Ion Ratio Lower Upper

77 100

105 23.3 89.6 129.6#

106 16.6 84.6 124.6#

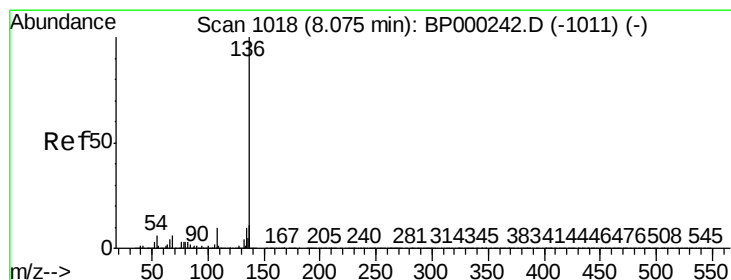
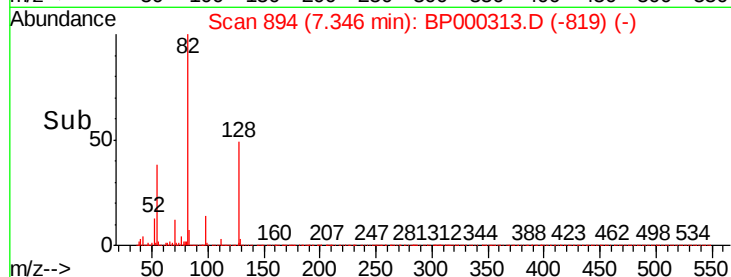
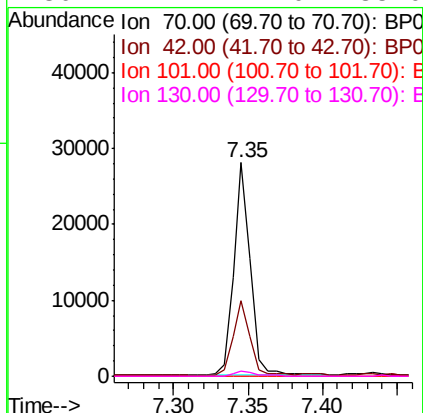
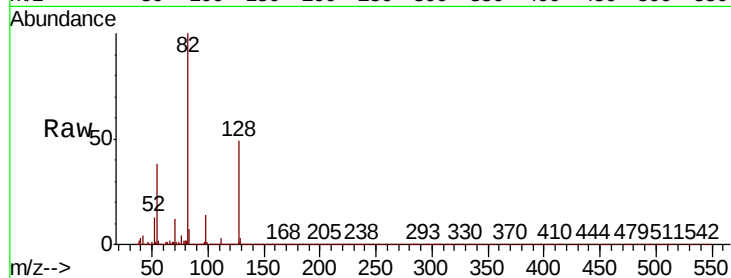




#19
n-Nitroso-di-n-propylamine
Concen: 2.240 ng
RT: 7.35 min Scan# 894
Delta R.T. 0.14 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

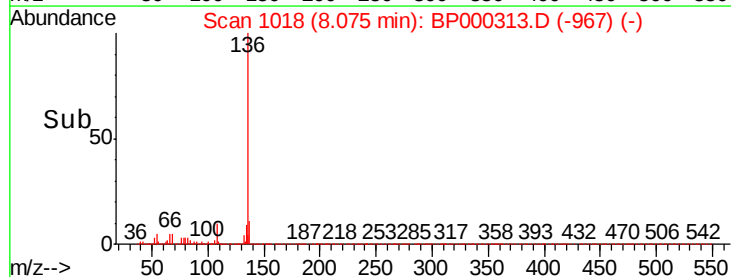
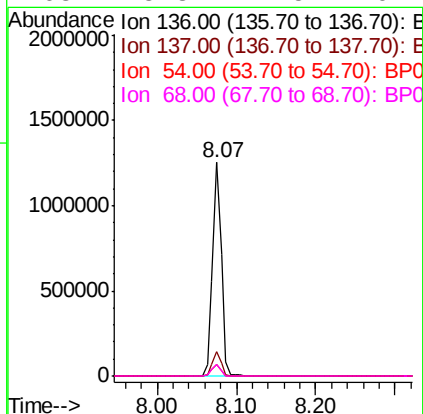
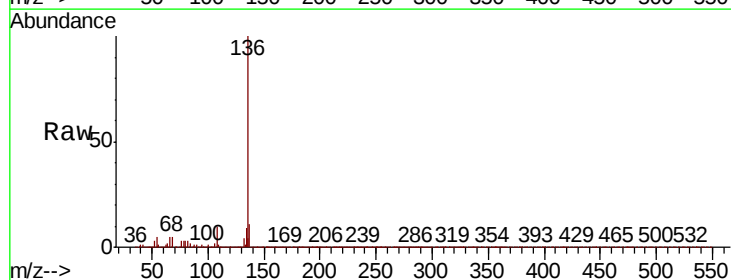
Instrument :
BNA_P
ClientSampleId :

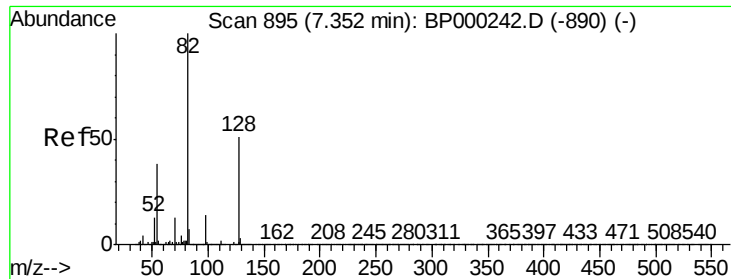
Tot Ion: 70 Resp: 22159
Ion Ratio Lower Upper
70 100
42 35.5 30.7 46.1
101 0.1 9.6 14.4#
130 2.7 22.0 33.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion:136 Resp: 964059
Ion Ratio Lower Upper
136 100
137 11.2 8.6 13.0
54 5.5 4.5 6.7
68 5.3 4.5 6.7

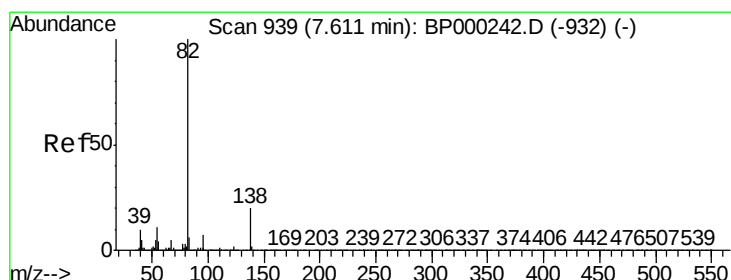
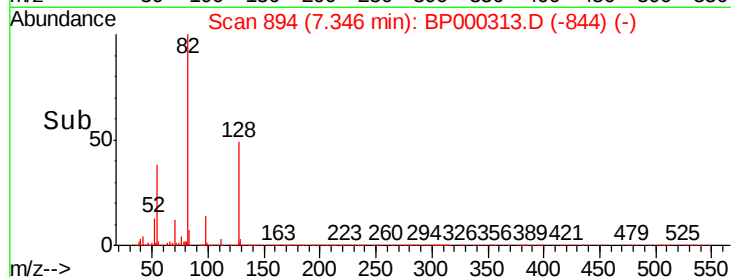
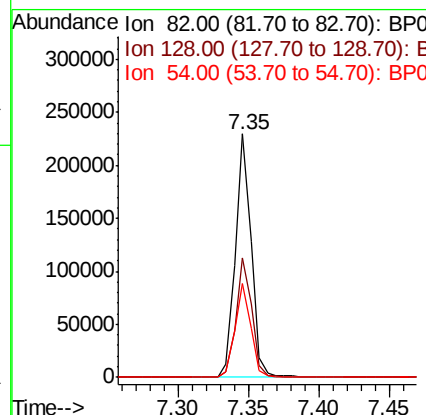
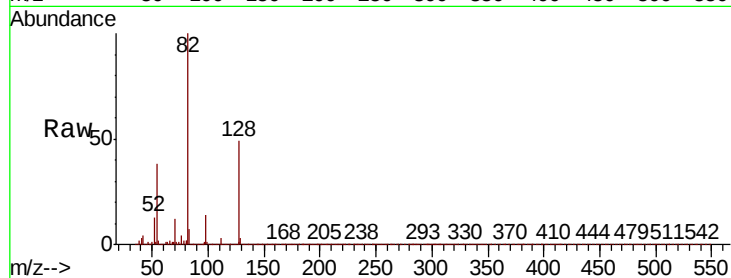




#23
 Nitrobenzene-d5
 Concen: 11.950 ng
 RT: 7.35 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: BP000313.D
 Acq: 18 Sep 2019 21:39

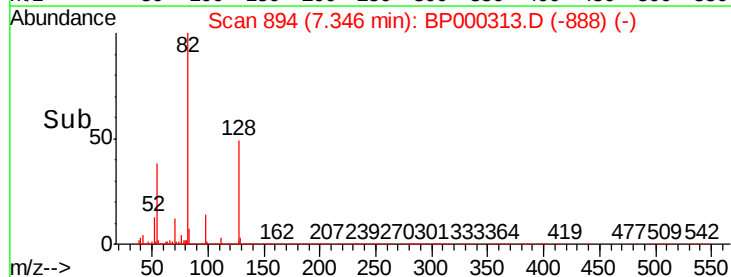
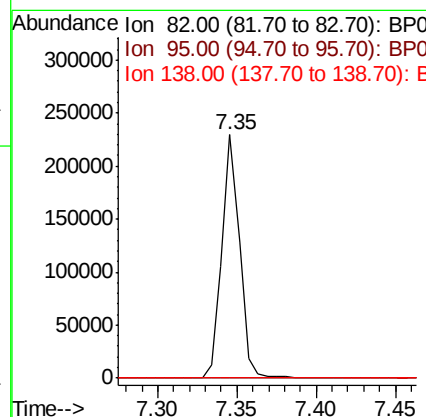
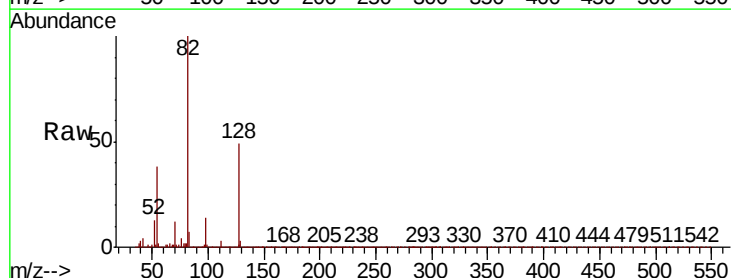
Instrument :
 BNA_P
 ClientSampleId :

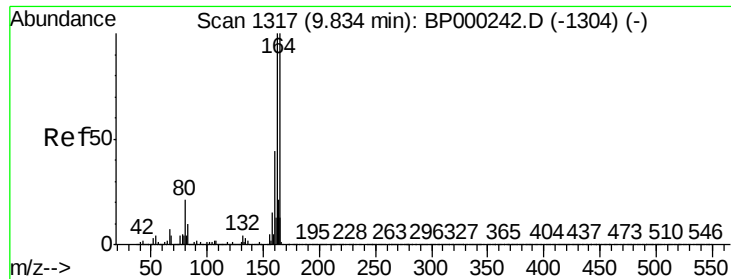
Tot Ion	82	Resp	178562
Ion Ratio	Lower	Upper	
82	100		
128	48.8	40.7	61.1
54	38.5	30.1	45.1



#25
 Isophorone
 Concen: 6.032 ng
 RT: 7.35 min Scan# 894
 Delta R.T. -0.26 min
 Lab File: BP000313.D
 Acq: 18 Sep 2019 21:39

Tgt Ion	82	Resp	178460
Ion Ratio	Lower	Upper	
82	100		
95	0.2	5.9	8.9#
138	0.0	15.9	23.9#

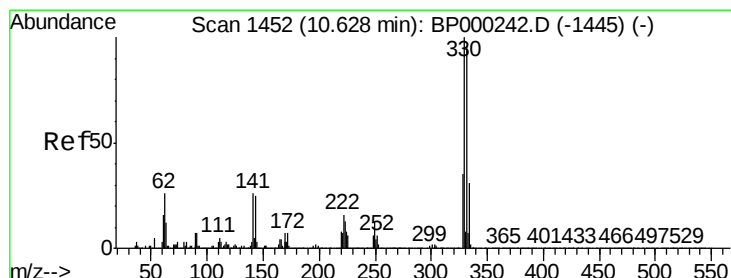
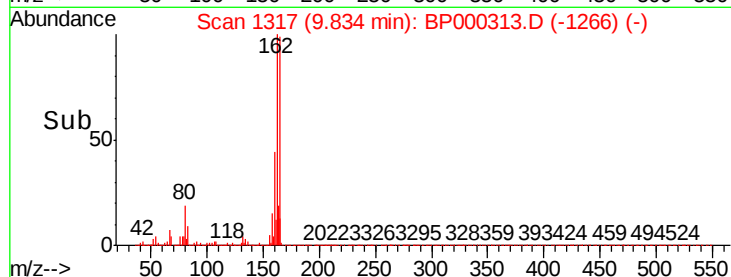
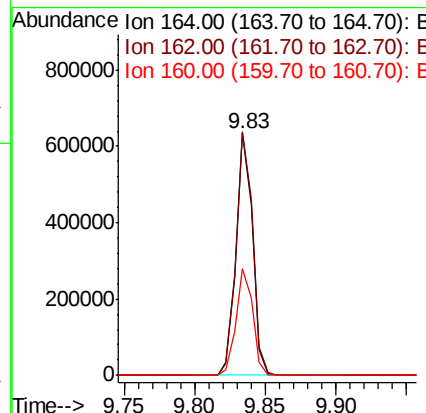
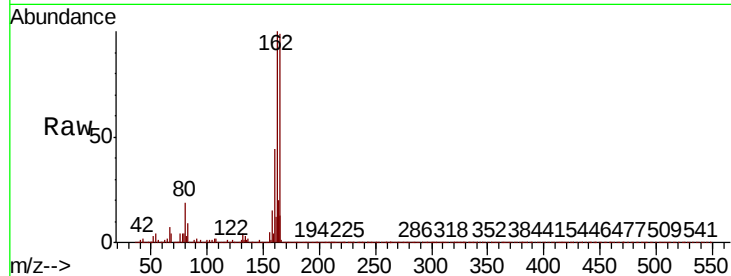




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

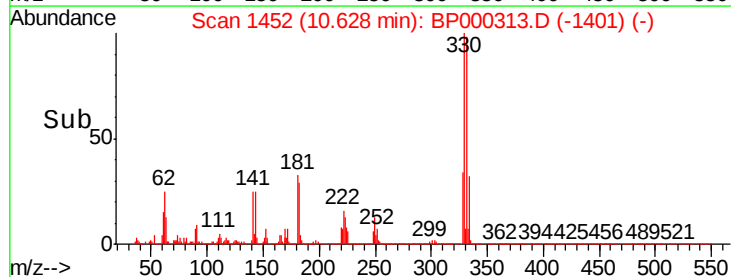
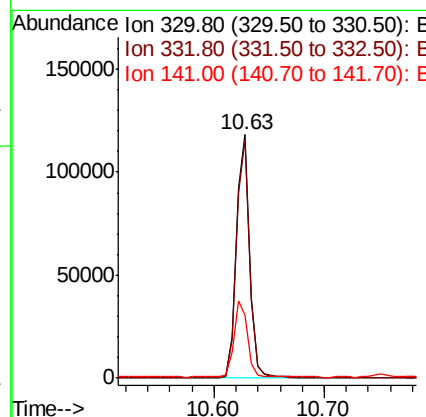
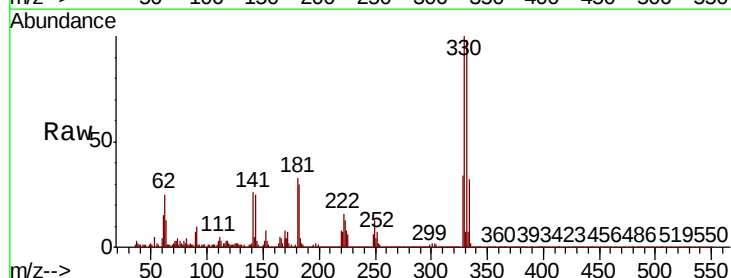
Instrument :
BNA_P
ClientSampleId :

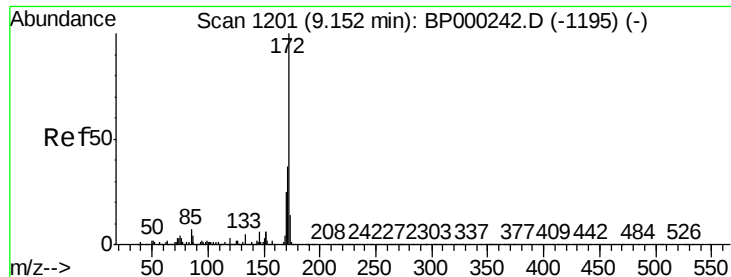
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.7	79.9	119.9
160	44.2	35.6	53.4



#42
2,4,6-Tribromophenol
Concen: 19.646 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.7	76.6	115.0
141	31.0	26.5	39.7

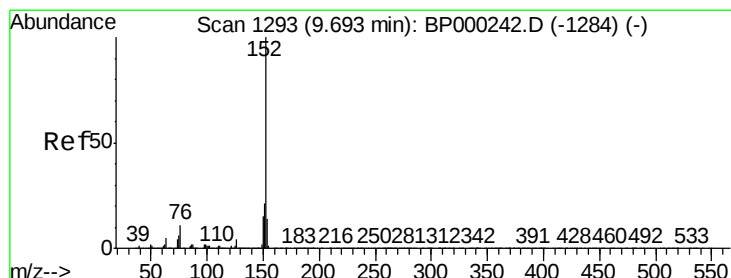
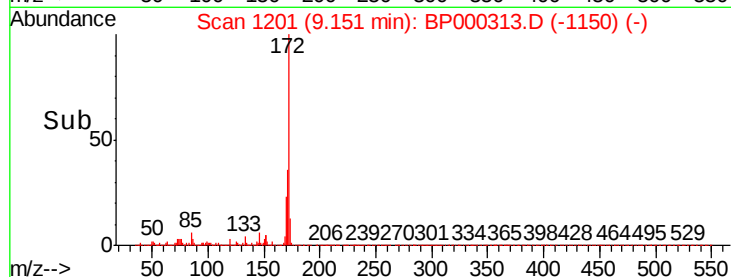
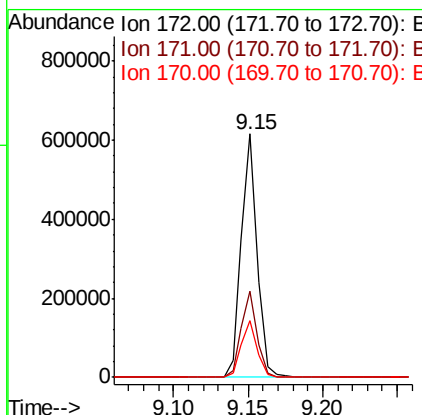
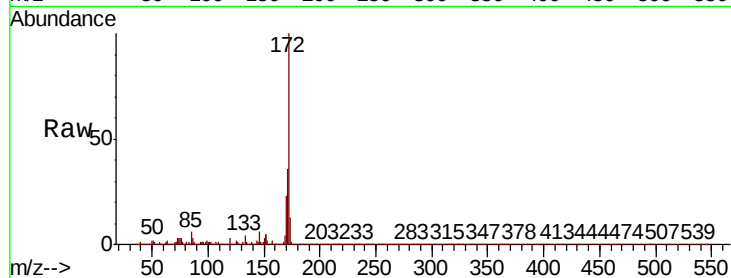




#45
2-Fluorobiphenyl
Concen: 16.098 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

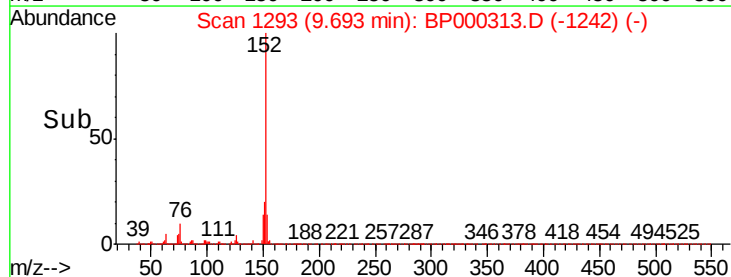
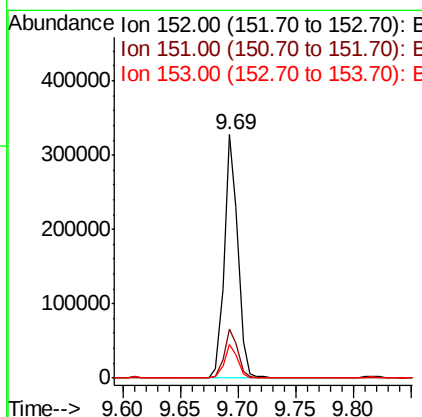
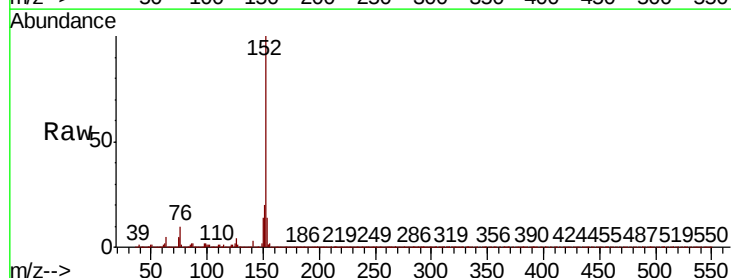
Instrument :
BNA_P
ClientSampleId :

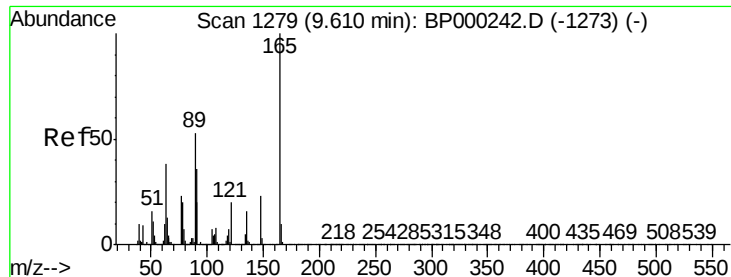
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.8	44.6
170	23.4	19.8	29.6



#49
Acenaphthylene
Concen: 5.944 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.6	11.0	16.4





#51

2,6-Dinitrotoluene

Concen: 8.960 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.22 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

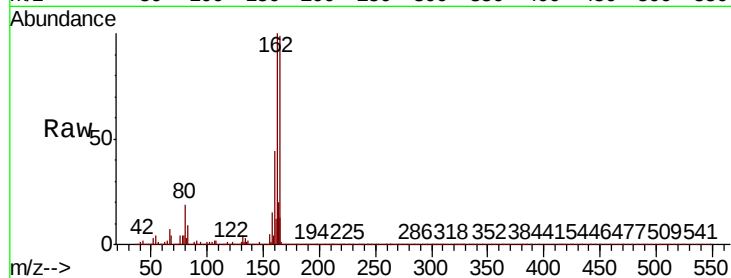
Tot Ion:165 Resp: 68886

Ion Ratio Lower Upper

165 100

63 1.0 35.8 53.8#

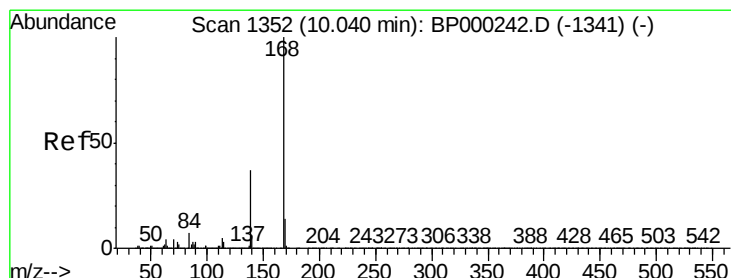
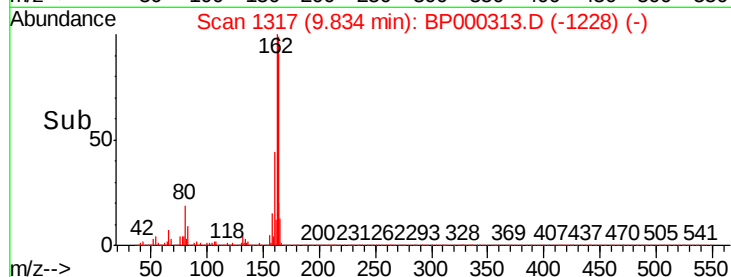
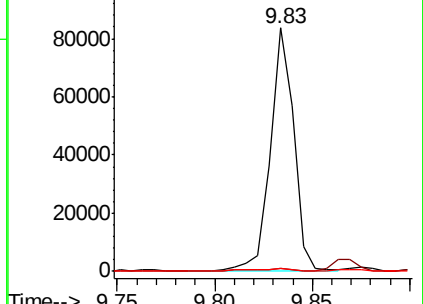
89 1.3 42.6 63.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 89.00 (88.70 to 89.70): BP0



#55

Dibenzofuran

Concen: 2.853 ng

RT: 10.04 min Scan# 1352

Delta R.T. -0.00 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

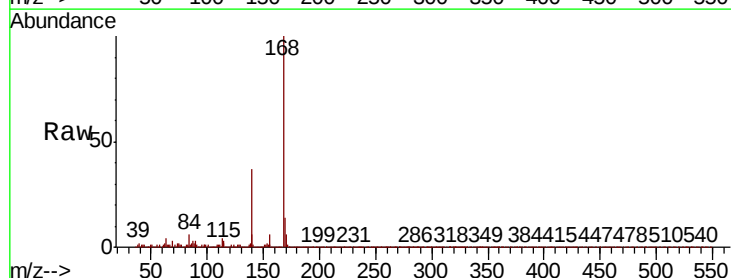
Tgt Ion:168 Resp: 113941

Ion Ratio Lower Upper

168 100

139 37.1 30.0 45.0

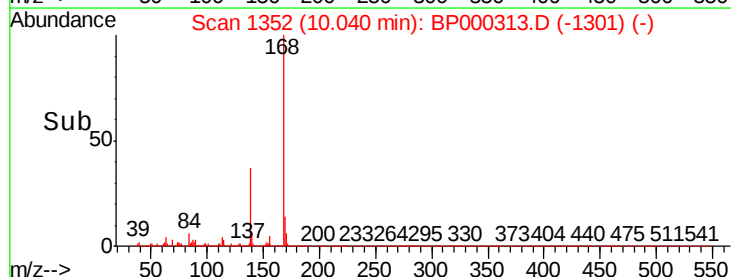
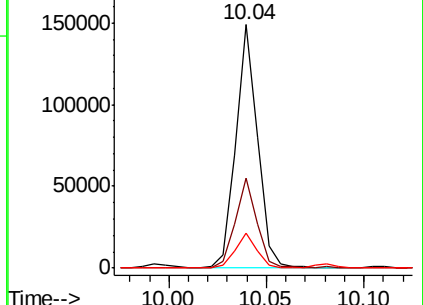
169 14.2 11.0 16.6

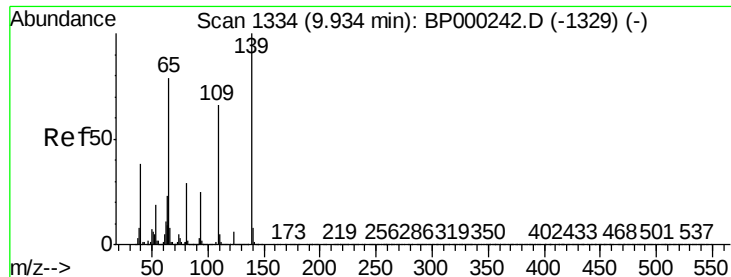


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

4-Nitrophenol

Concen: 6.343 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.11 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

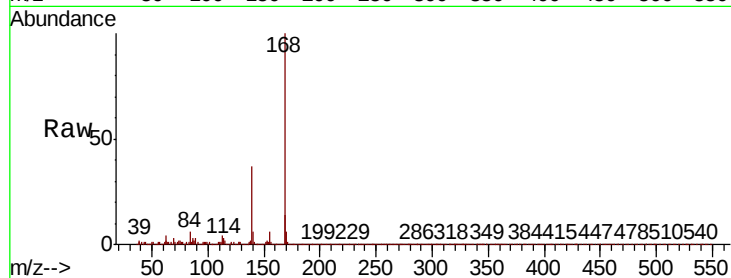
Tot Ion:139 Resp: 42099

Ion Ratio Lower Upper

139 100

109 2.2 46.2 86.2#

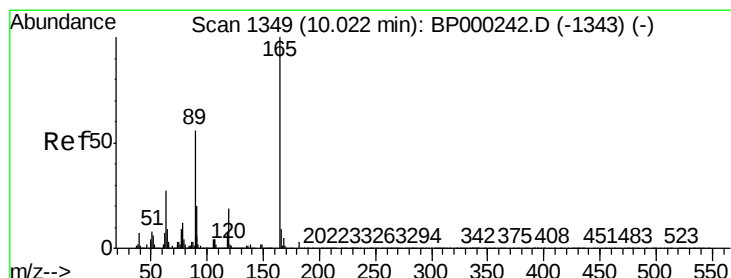
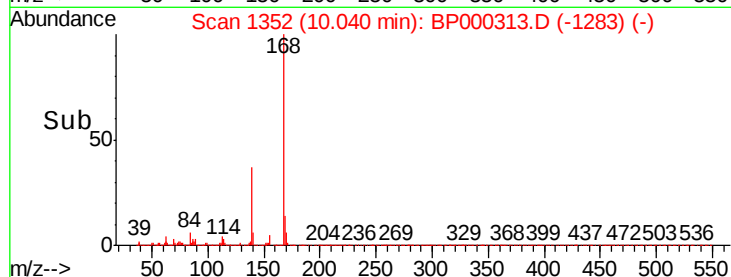
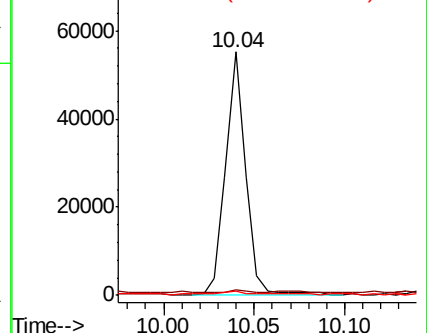
65 1.5 59.4 99.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BP0



#57

2,4-Dinitrotoluene

Concen: 6.854 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.19 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Tgt Ion:165 Resp: 68886

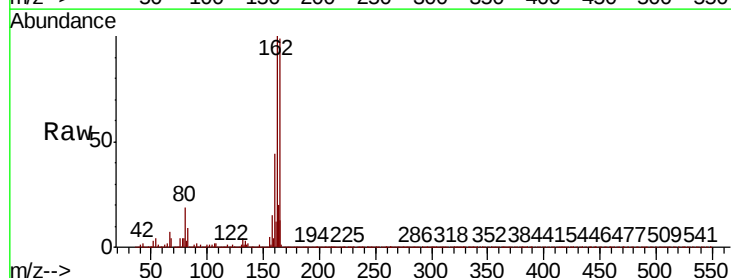
Ion Ratio Lower Upper

165 100

63 1.0 21.7 32.5#

89 1.3 45.0 67.6#

182 0.4 2.4 3.6#

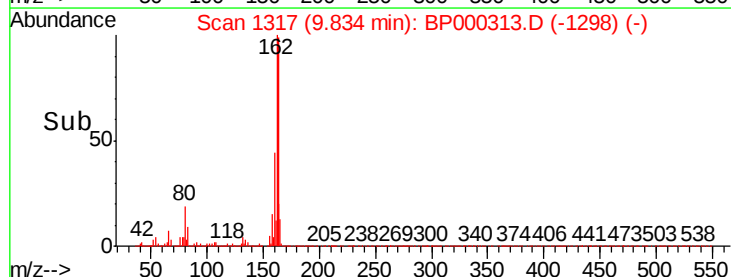
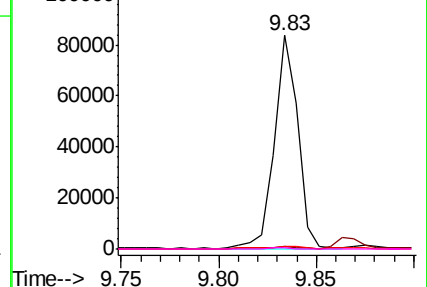


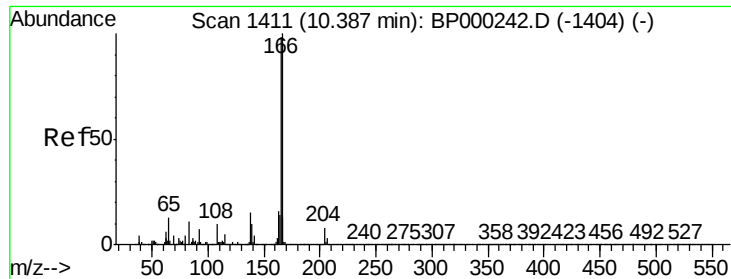
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 89.00 (88.70 to 89.70): BP0

Ion 182.00 (181.70 to 182.70): E

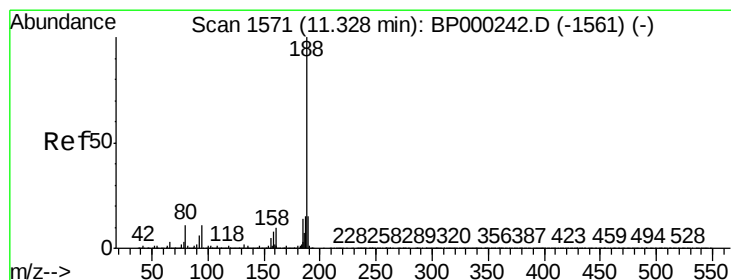
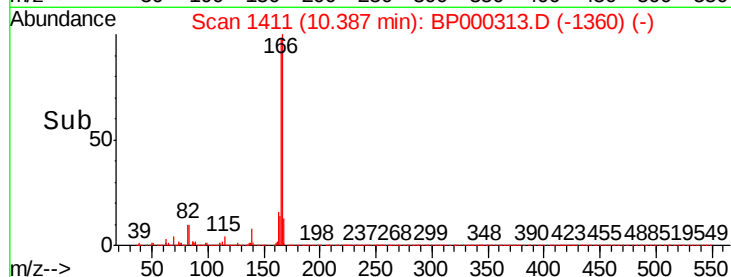
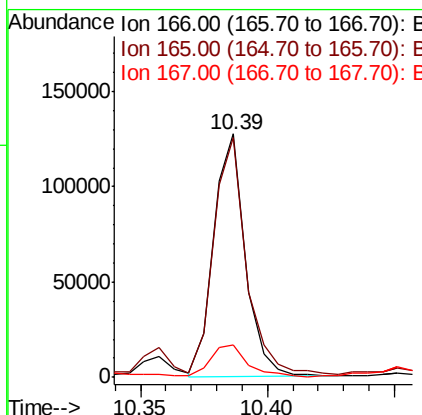
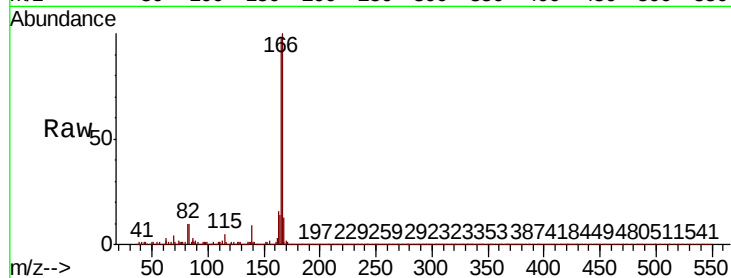




#58
 Fluorene
 Concen: 3.608 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.00 min
 Lab File: BP000313.D
 Acq: 18 Sep 2019 21:39

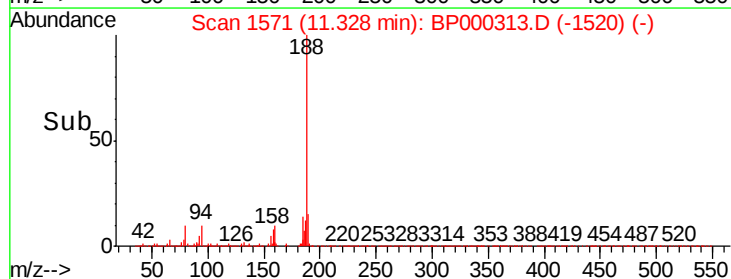
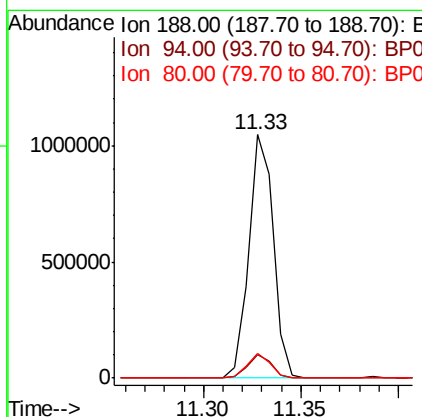
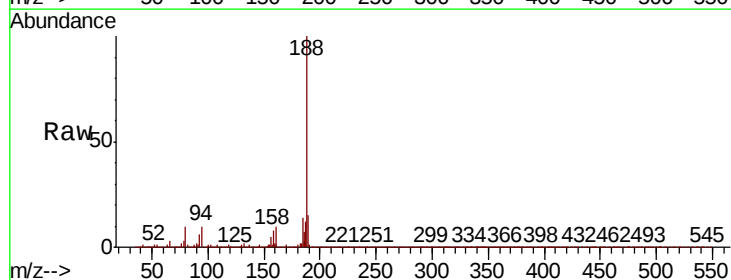
Instrument :
 BNA_P
 ClientSampleId :

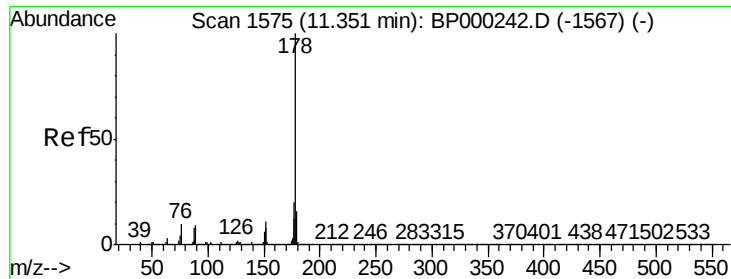
Tot Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.2	117.2
167	13.3	10.7	16.1



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: BP000313.D
 Acq: 18 Sep 2019 21:39

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.5	12.7
80	10.2	8.6	13.0

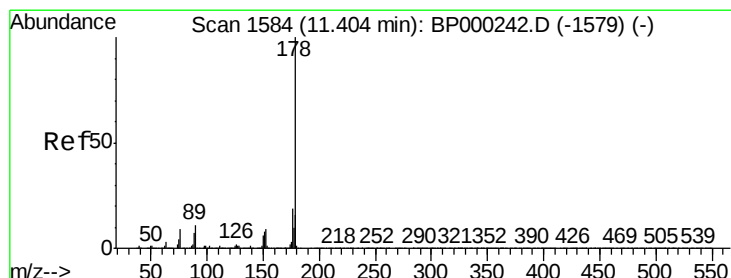
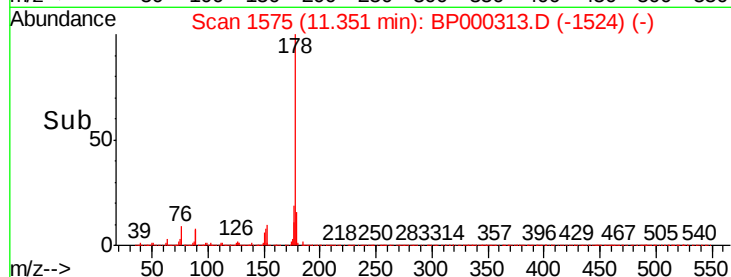
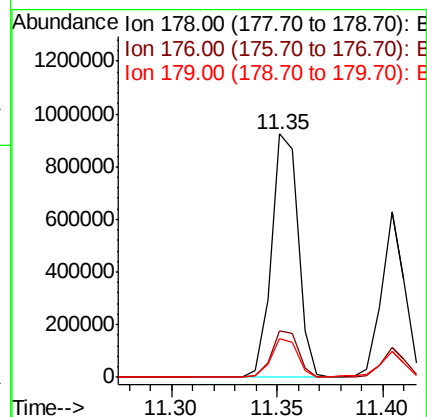
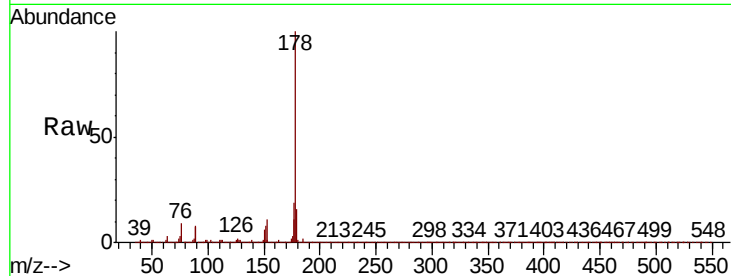




#71
Phenanthrene
Concen: 17.935 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

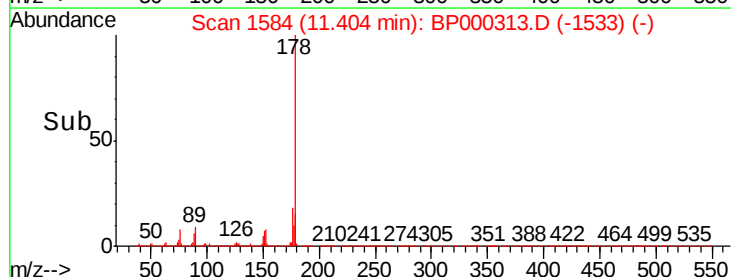
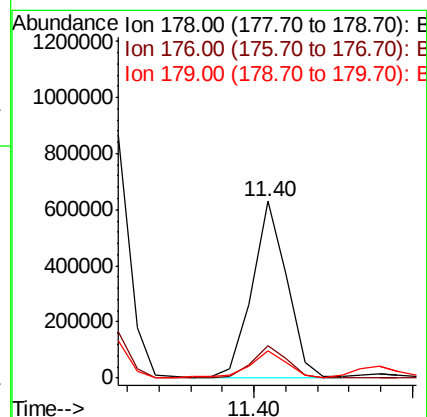
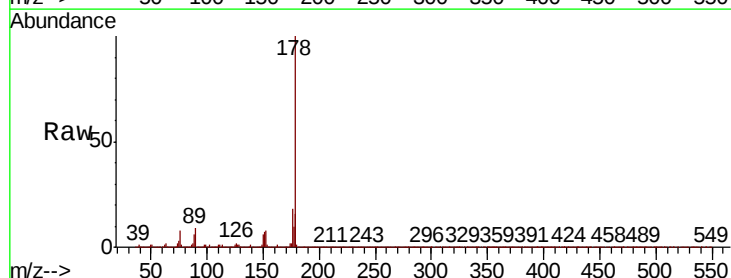
Instrument :
BNA_P
ClientSampleId :

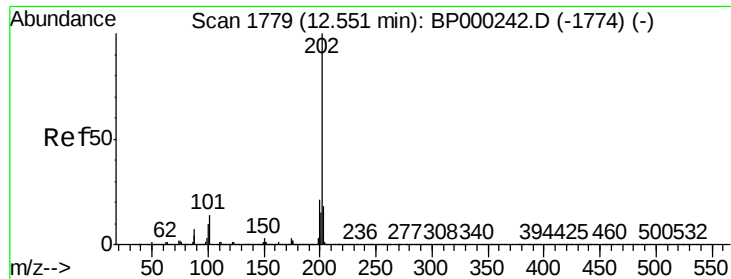
Tot Ion:178 Resp: 814539
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.8 12.7 19.1



#72
Anthracene
Concen: 10.133 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion:178 Resp: 473711
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.0
179 15.5 12.7 19.1





#75

Fluoranthene

Concen: 42.957 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.01 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

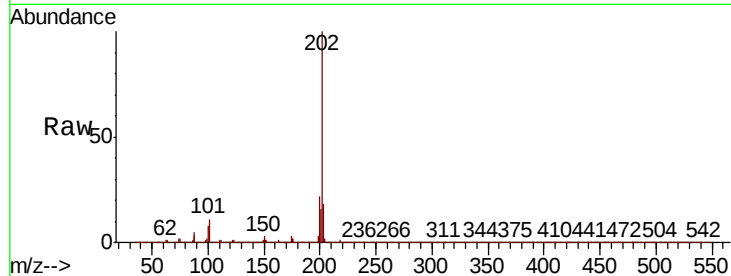
Tot Ion:202 Resp: 2094943

Ion Ratio Lower Upper

202 100

101 11.0 0.0 33.9

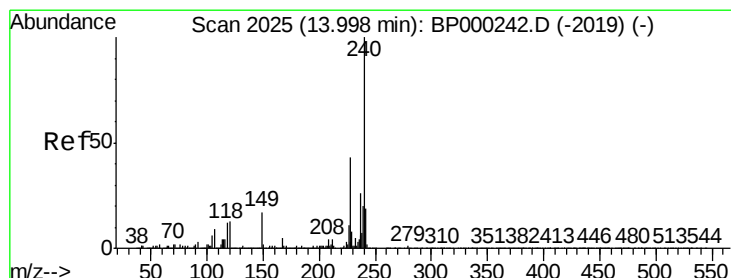
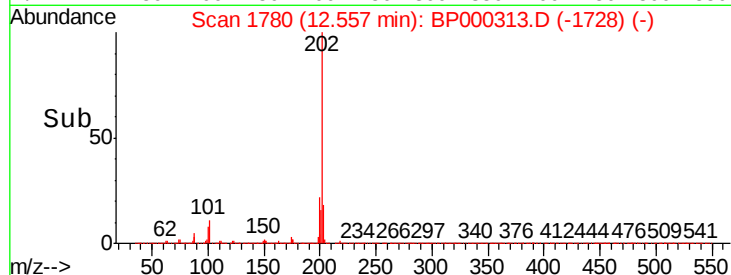
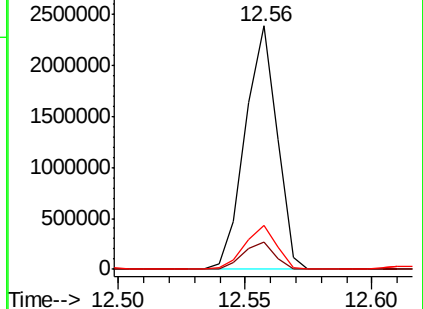
203 18.2 0.0 38.0



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: 14.00 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

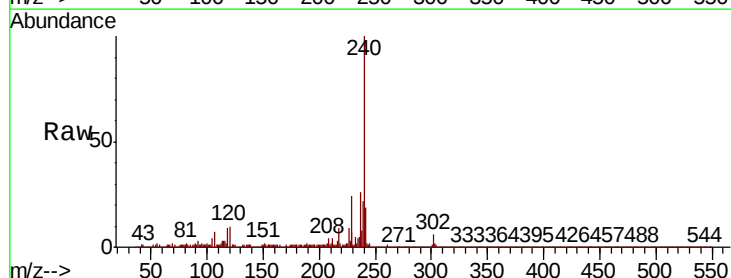
Tgt Ion:240 Resp: 728720

Ion Ratio Lower Upper

240 100

120 10.4 10.4 15.6#

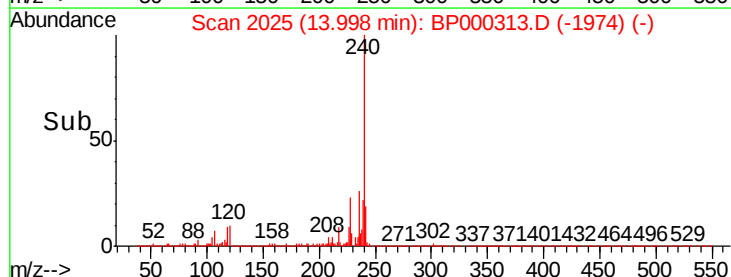
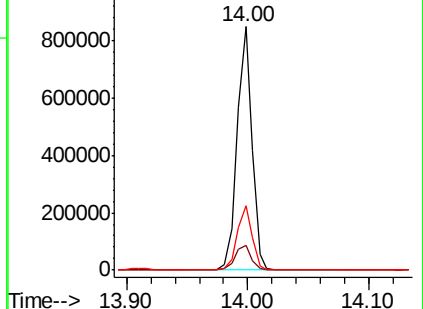
236 26.5 21.0 31.6

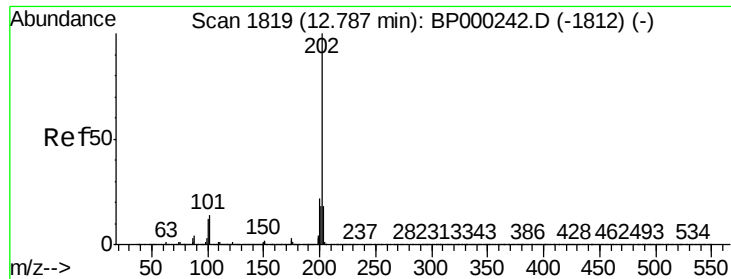


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

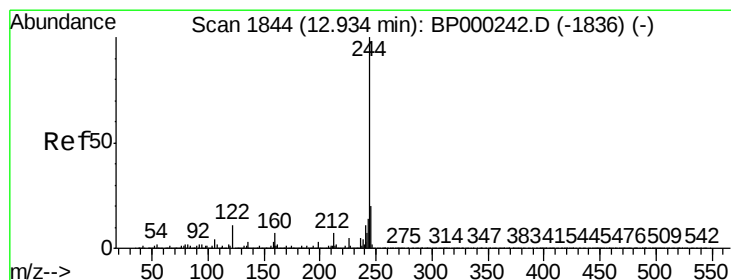
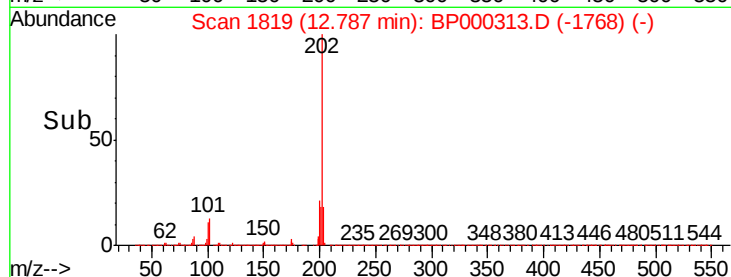
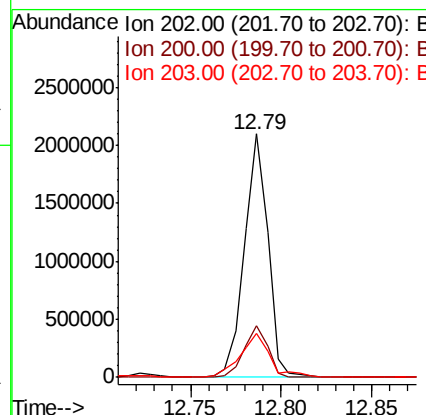
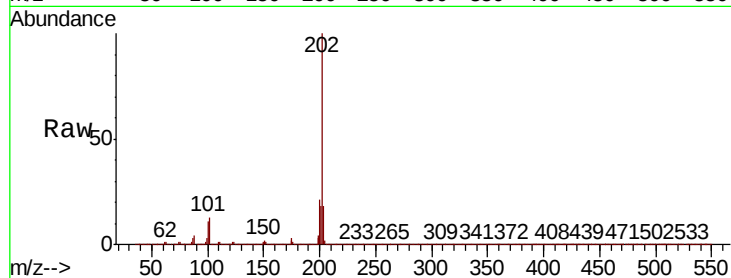




#78
Pvrene
Concen: 34.594 ng
RT: 12.79 min Scan# 1819
Delta R.T. -0.00 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

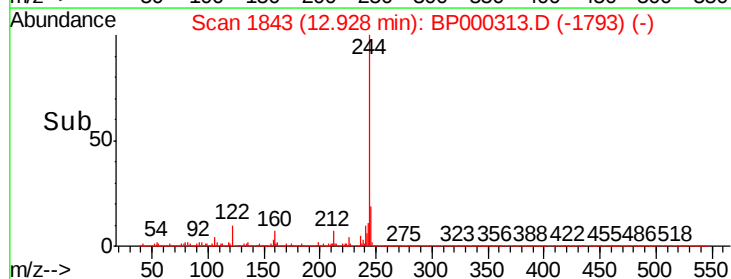
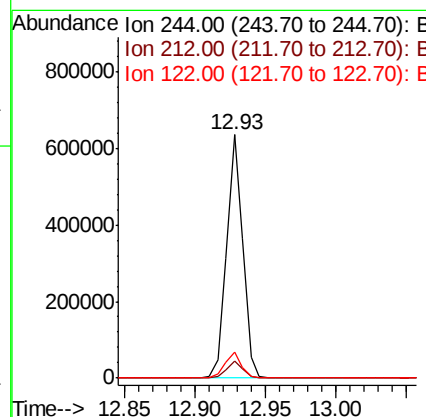
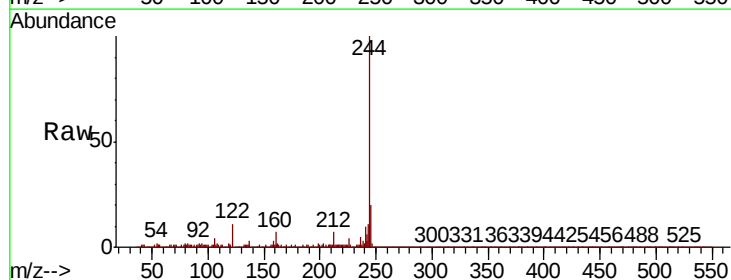
Instrument :
BNA_P
ClientSampled :

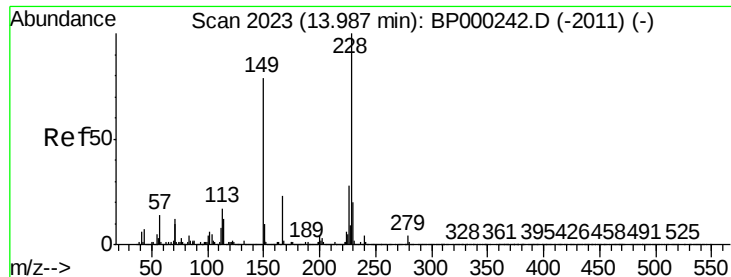
Tot Ion:202 Resp: 1886088
Ion Ratio Lower Upper
202 100
200 21.4 17.5 26.3
203 18.2 14.3 21.5



#79
Terphenyl-d14
Concen: 14.453 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BP000313.D
Acq: 18 Sep 2019 21:39

Tgt Ion:244 Resp: 502043
Ion Ratio Lower Upper
244 100
212 6.8 5.9 8.9
122 10.6 9.0 13.4





#81

Benzo(a)anthracene

Concen: 19.473 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.04 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampled :

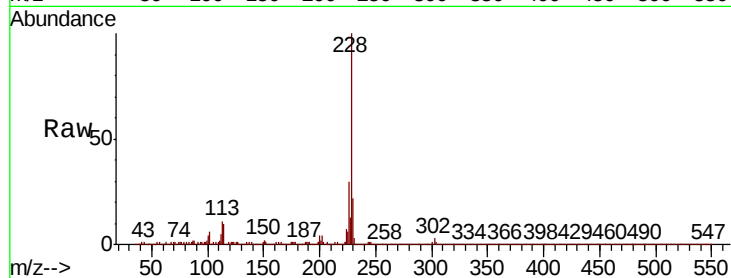
Tot Ion:228 Resp: 896373

Ion Ratio Lower Upper

228 100

226 30.3 22.2 33.4

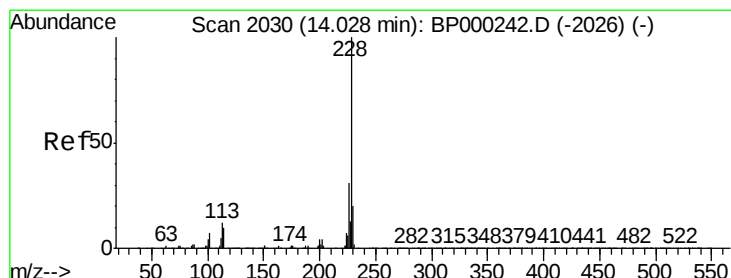
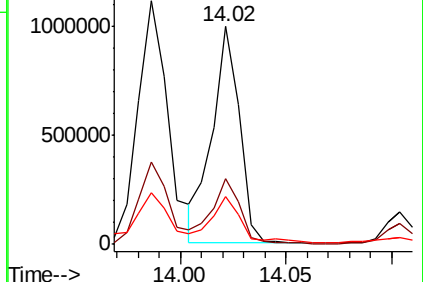
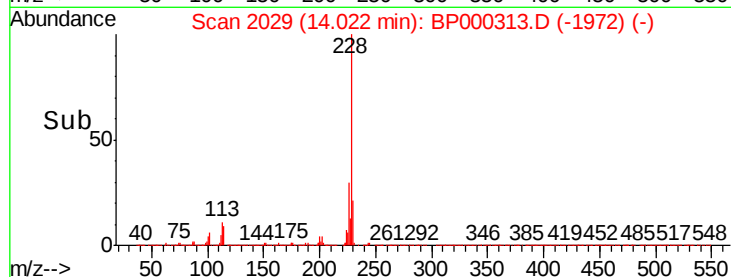
229 22.0 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 19.833 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

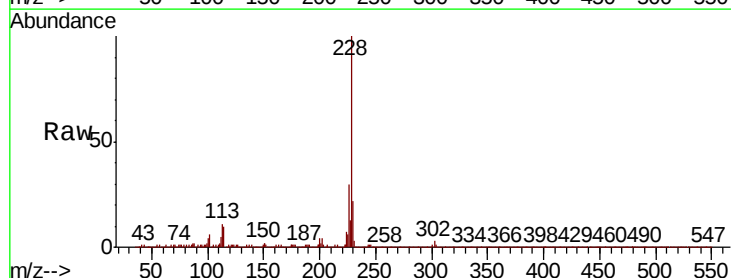
Tgt Ion:228 Resp: 896373

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

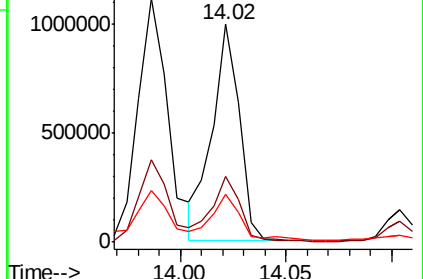
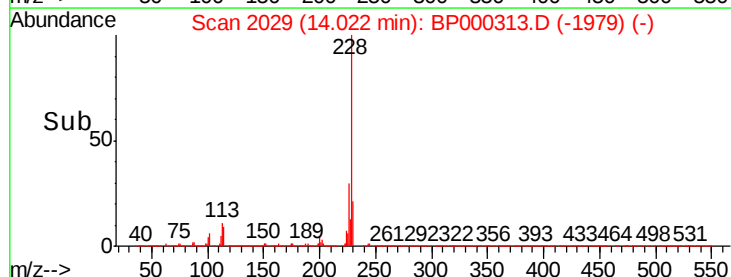
229 22.0 16.2 24.2

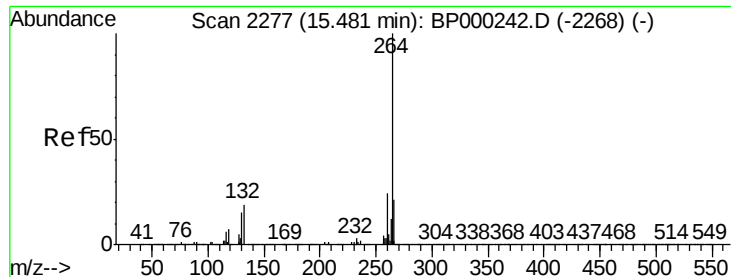


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.01 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

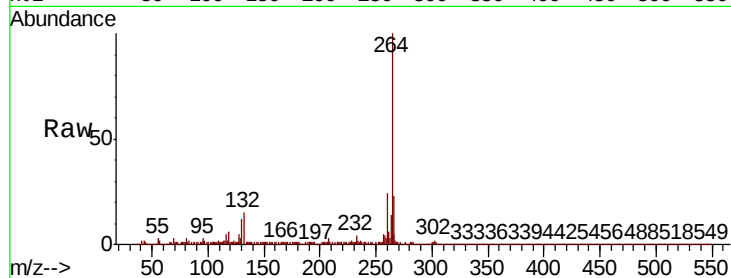
Tot Ion:264 Resp: 777795

Ion Ratio Lower Upper

264 100

260 24.2 18.9 28.3

265 22.8 17.2 25.8

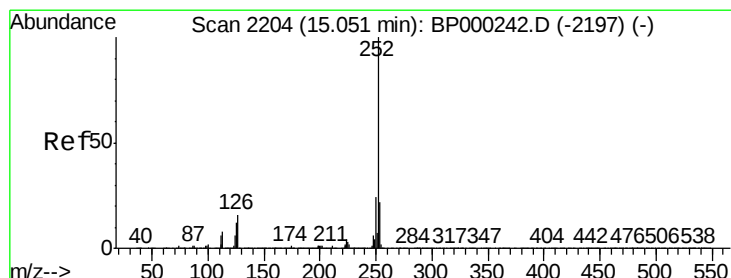
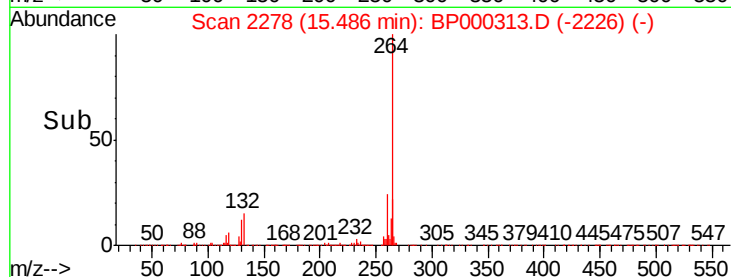
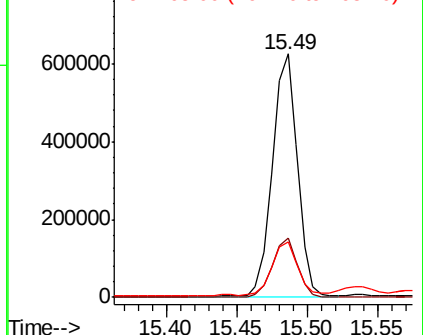


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 40.364 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

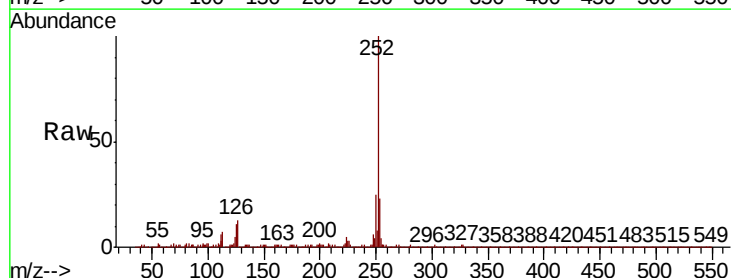
Tgt Ion:252 Resp: 1872928

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.6

125 10.9 9.5 14.3

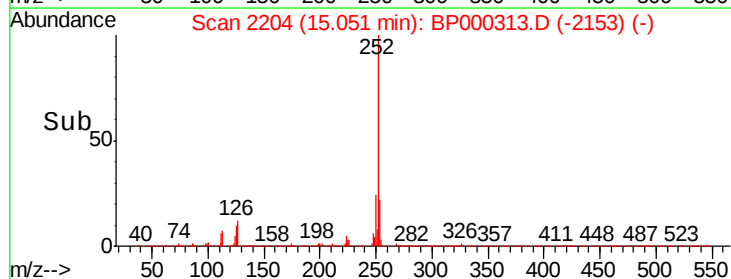
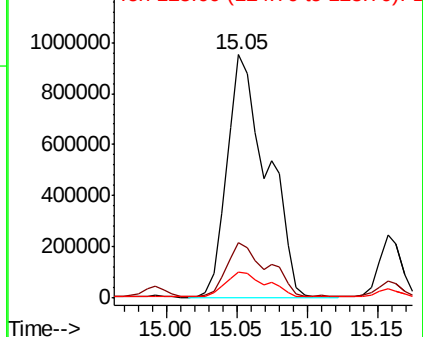


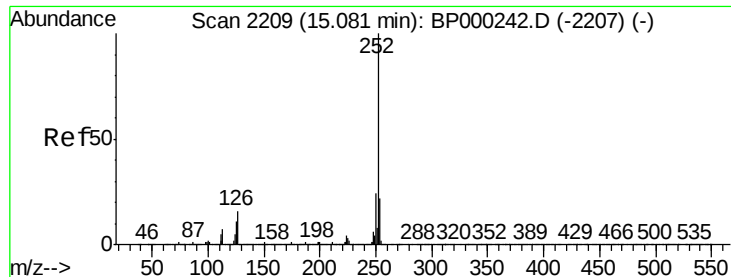
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 46.274 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

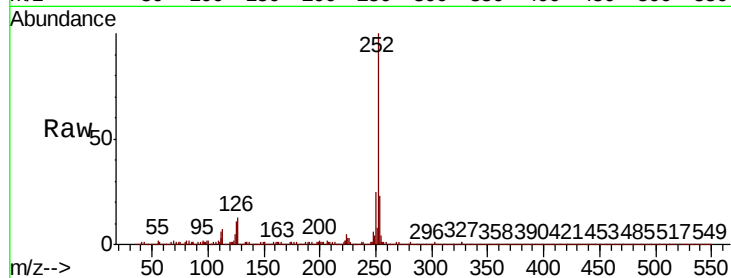
Tot Ion:252 Resp: 1872928

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.8

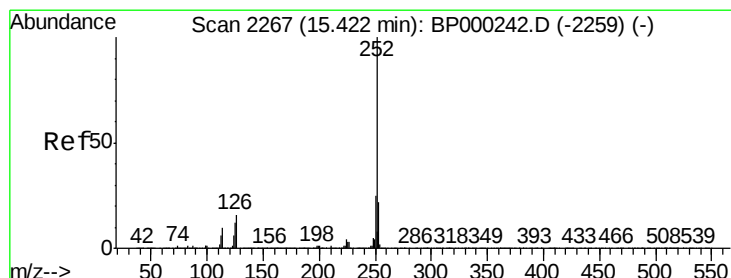
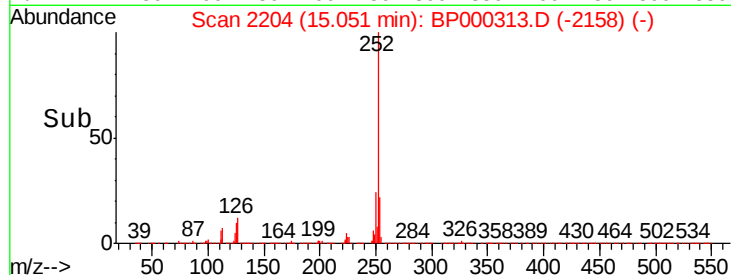
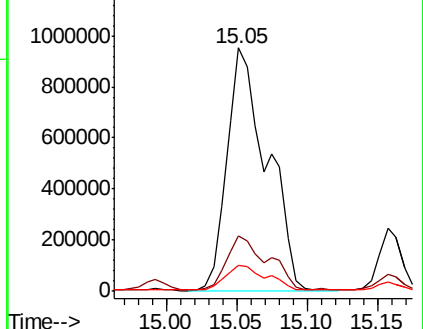
125 10.9 9.6 14.4



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



#90

Benzo(a)pyrene

Concen: 24.201 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.00 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

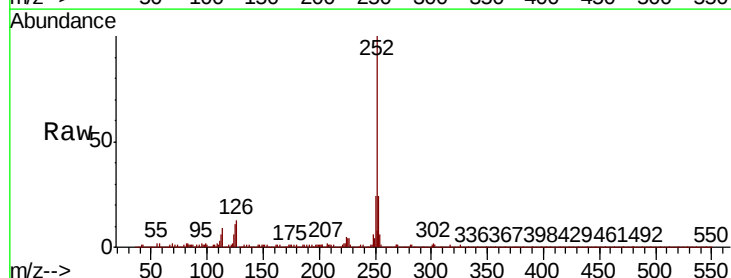
Tgt Ion:252 Resp: 1021765

Ion Ratio Lower Upper

252 100

253 23.7 17.7 26.5

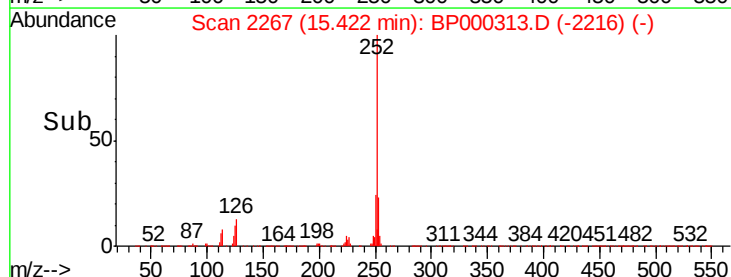
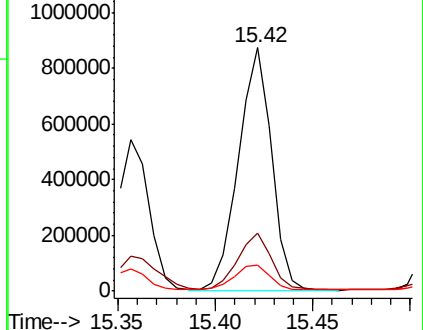
125 10.6 10.0 15.0

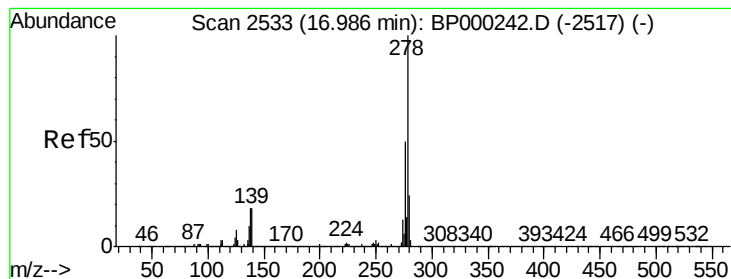


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 3.190 ng

RT: 17.15 min Scan# 2560

Delta R.T. 0.16 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

Instrument :

BNA_P

ClientSampleId :

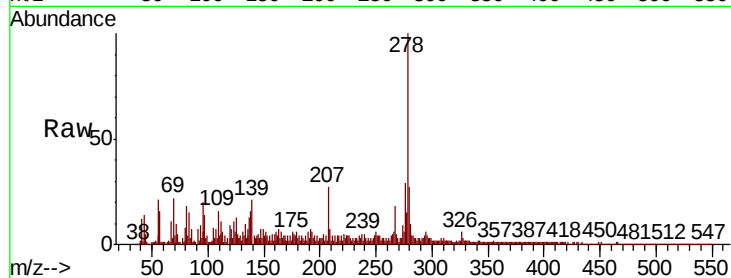
Tot Ion:278 Resp: 125590

Ion Ratio Lower Upper

278 100

139 20.7 14.5 21.7

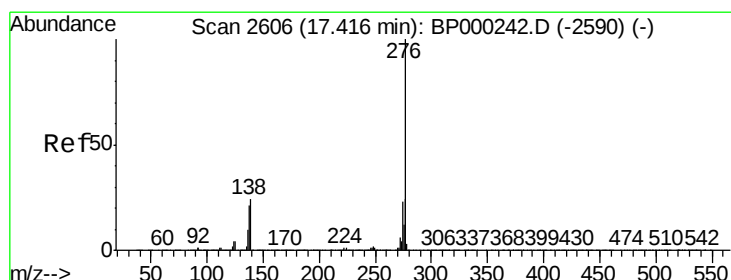
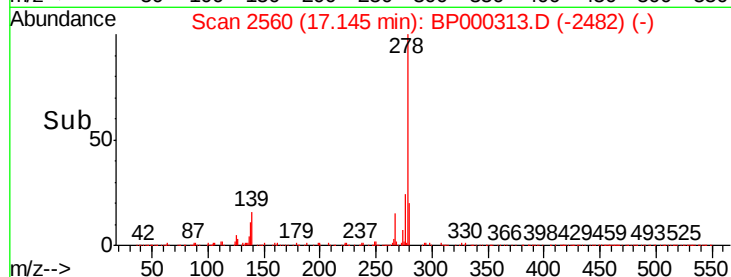
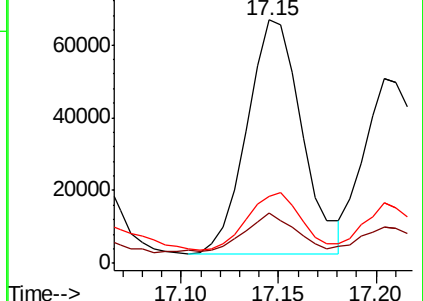
279 27.4 19.0 28.6



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(g,h,i)perylene

Concen: 12.918 ng

RT: 17.42 min Scan# 2607

Delta R.T. 0.01 min

Lab File: BP000313.D

Acq: 18 Sep 2019 21:39

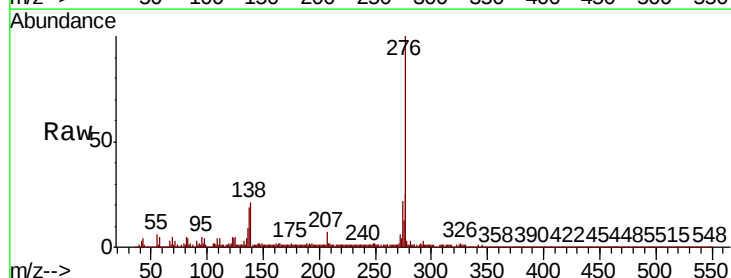
Tgt Ion:276 Resp: 522696

Ion Ratio Lower Upper

276 100

277 24.6 19.1 28.7

138 21.0 19.5 29.3



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

