

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\
 Data File : BF118852.D
 Acq On : 7 Feb 2020 15:59
 Operator : CG/JU
 Sample : L1439-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAM-SB-01-0-5

Manual Integrations
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mohammad
 2/11/2020 8:26:39 AM

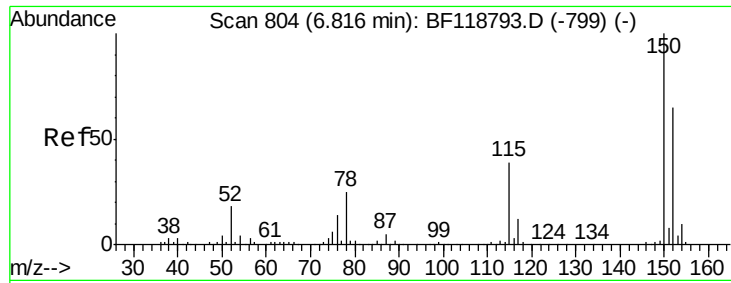
Quant Time: Feb 08 04:13:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	224711	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	809496	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	471316	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	860075	20.00	ng	0.00
76) Chrysene-d12	13.97	240	645228	20.00	ng	-0.01
87) Perylene-d12	15.42	264	736997	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1099472	92.62	ng	0.00
7) Phenol-d6	6.45	99	1316730	89.35	ng	0.00
23) Nitrobenzene-d5	7.37	82	862594	63.51	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	485680	86.12	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	1645700	62.42	ng	-0.01
79) Terphenyl-d14	12.92	244	1757424	55.95	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	83191	2.247	ng	97
50) Dimethylphthalate	9.56	163	85068	2.651	ng	99
52) Acenaphthene	9.88	154	101942	3.953	ng	98
55) Dibenzofuran	10.05	168	110983	2.978	ng	94
58) Fluorene	10.39	166	138736	4.948	ng	99
71) Phenanthrene	11.36	178	1438790	34.000	ng	98
72) Anthracene	11.41	178	409441	9.726	ng	96
73) Carbazole	11.56	167	136942	3.707	ng	96
75) Fluoranthene	12.54	202	1444620	31.267	ng	99
78) Pyrene	12.77	202	1286672	29.068	ng	98
81) Benzo(a)anthracene	13.96	228	625503	16.291	ng	99
83) Chrysene	14.00	228	569677	14.783	ng	96
86) Indeno(1,2,3-cd)pyrene	16.85	276	302082	7.802	ng	93
88) Benzo(b)fluoranthene	15.00	252	692876m	15.151	ng	
89) Benzo(k)fluoranthene	15.03	252	266647m	6.696	ng	
90) Benzo(a)pyrene	15.36	252	536811	13.716	ng	97
91) Dibenzo(a,h)anthracene	16.86	278	75559m	2.175	ng	
92) Benzo(g,h,i)perylene	17.29	276	272404	8.152	ng	98

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



#1

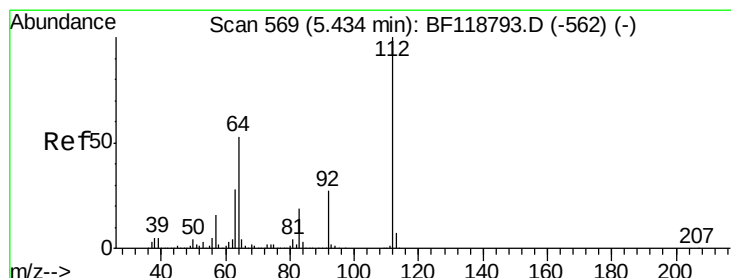
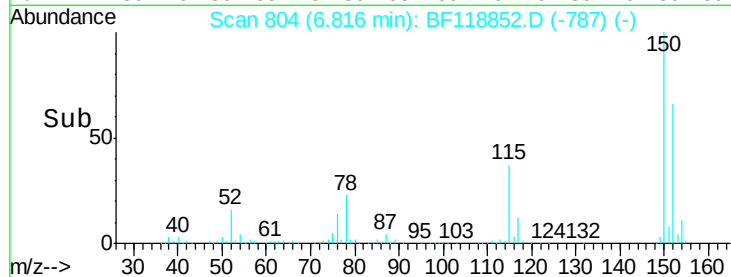
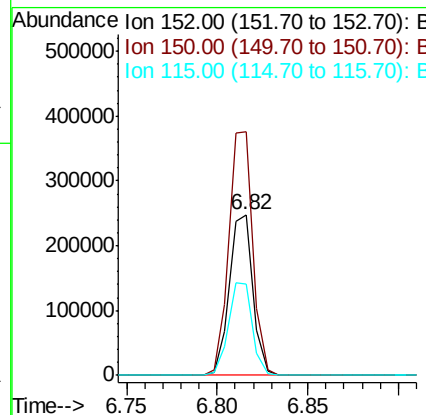
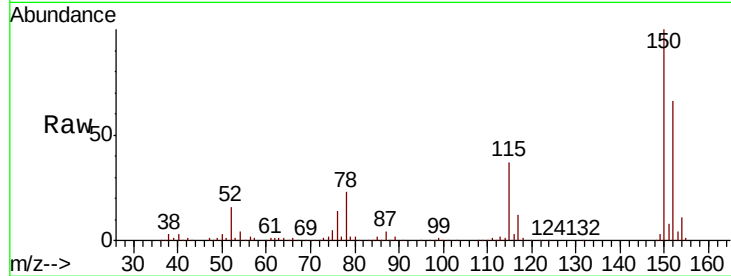
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.7	123.6	185.4
115	56.8	48.2	72.2

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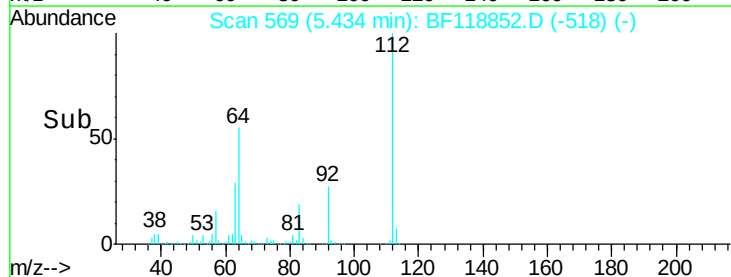
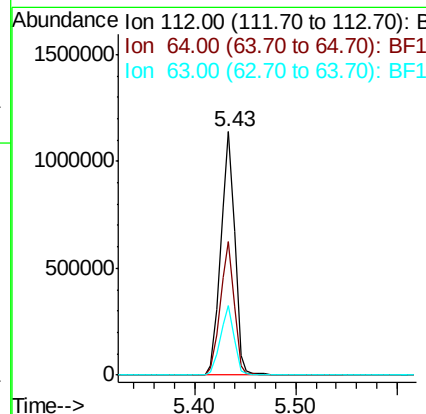
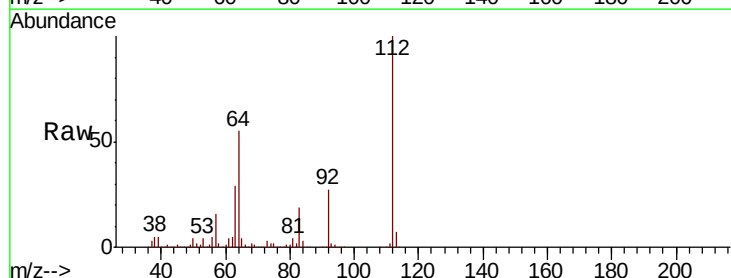
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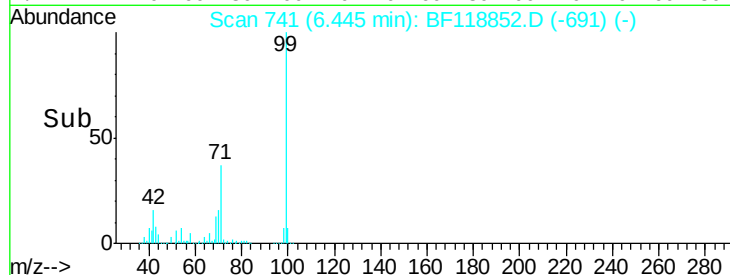
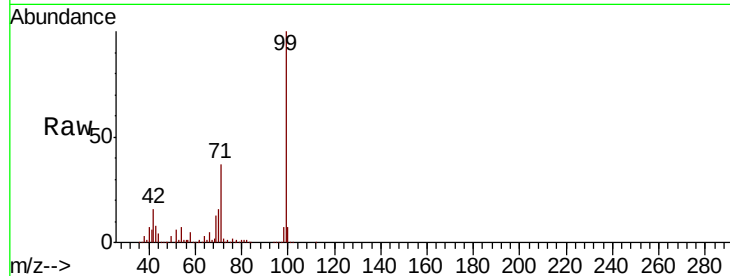
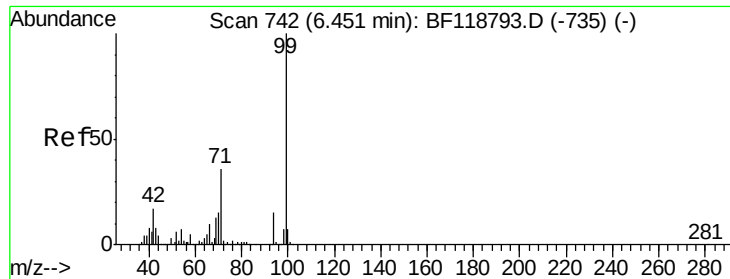


#5

2-Fluorophenol
Concen: 92.618 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.00 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	42.6	63.8
63	28.8	22.2	33.4





#7

Phenol-d6

Concen: 89.353 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Tot Ion: 99 Resp: 1316730

Ion Ratio Lower Upper

99 100

42 16.4 13.4 20.0

71 36.6 29.0 43.6

Instrument :

BNA_F

ClientSampleId :

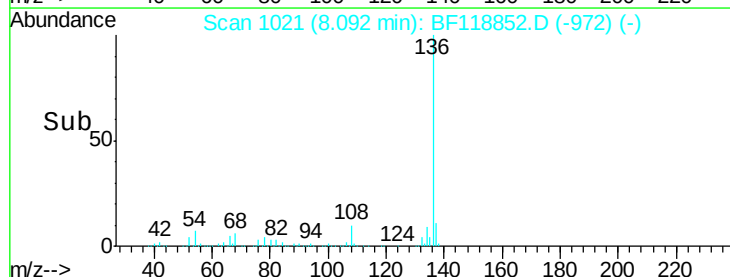
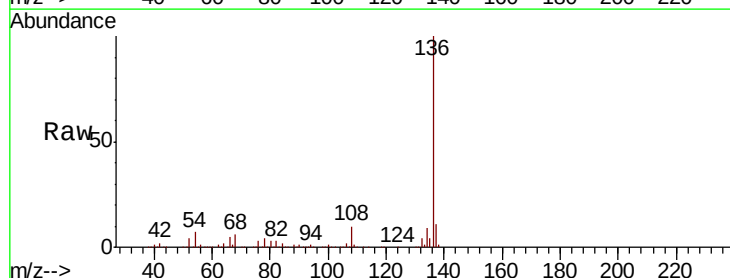
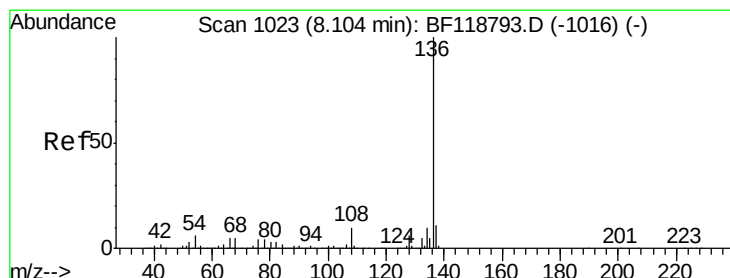
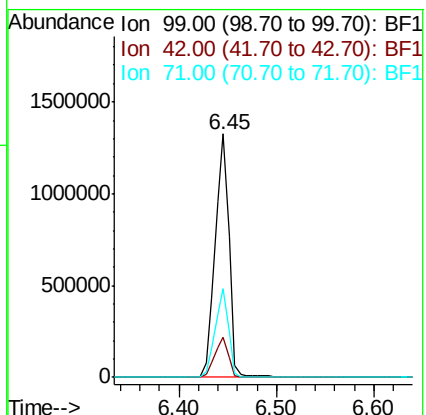
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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Tgt Ion: 136 Resp: 809496

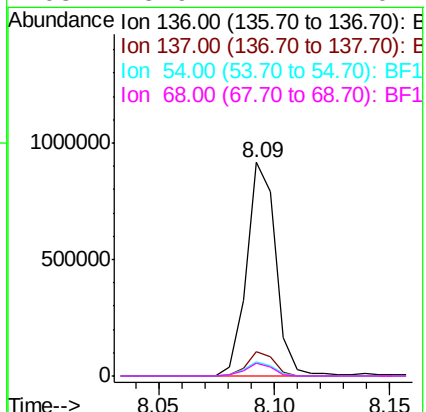
Ion Ratio Lower Upper

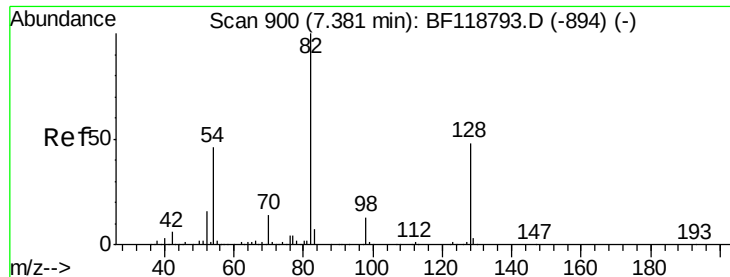
136 100

137 11.3 8.7 13.1

54 6.9 5.0 7.6

68 5.9 4.2 6.4





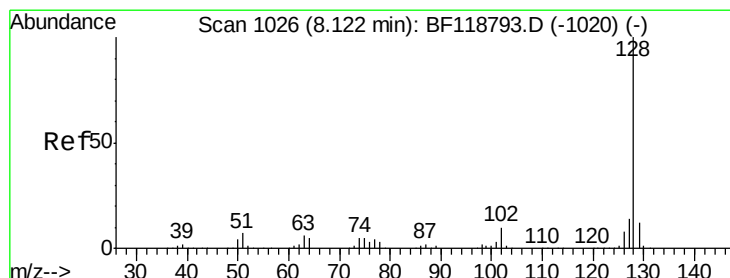
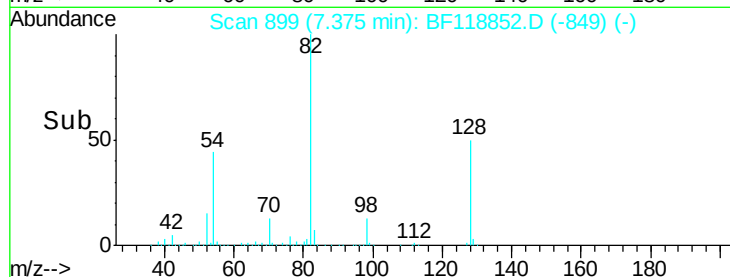
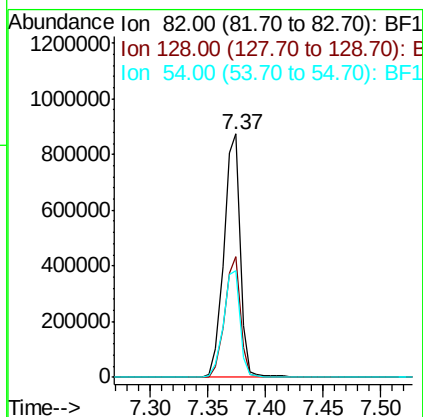
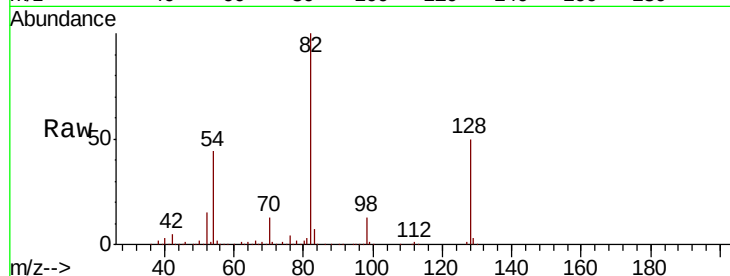
#23
Nitrobenzene-d5
Concen: 63.515 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.6	38.5	57.7
54	44.1	36.7	55.1

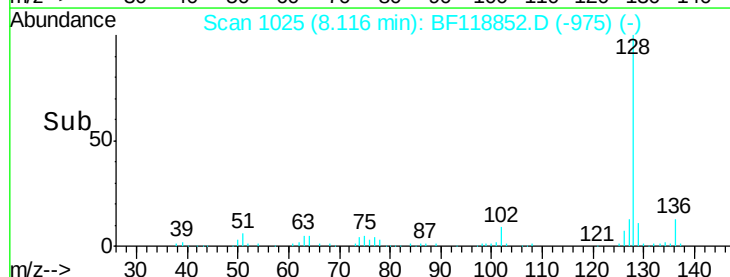
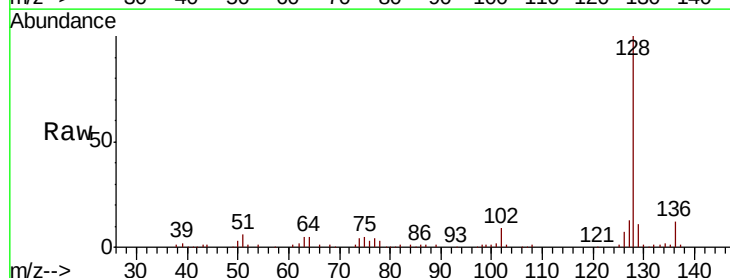
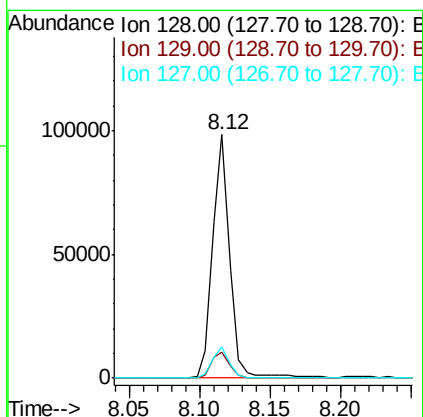
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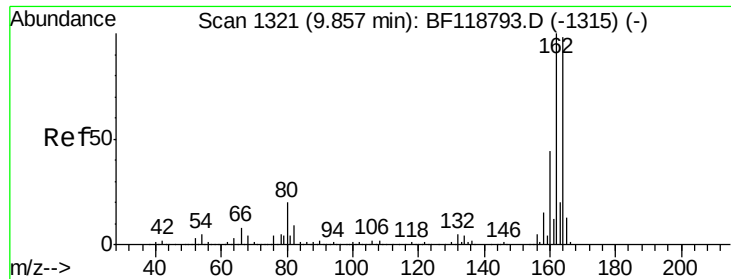
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#31
Naphthalene
Concen: 2.247 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.4	14.2
127	12.9	11.3	16.9





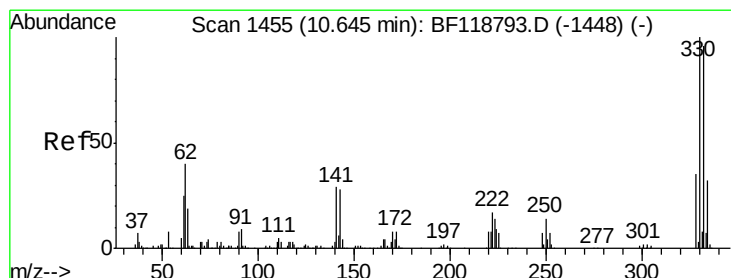
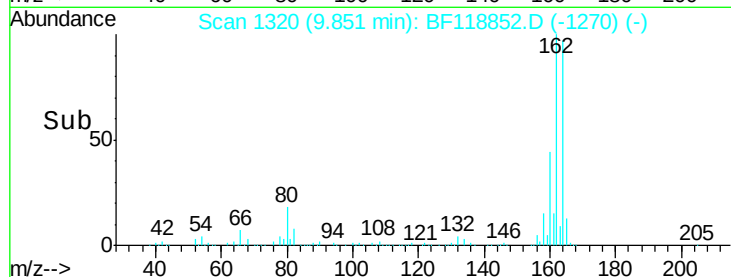
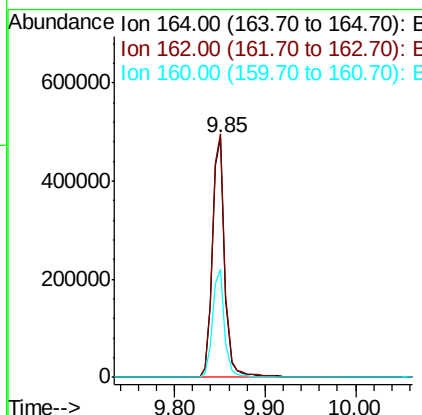
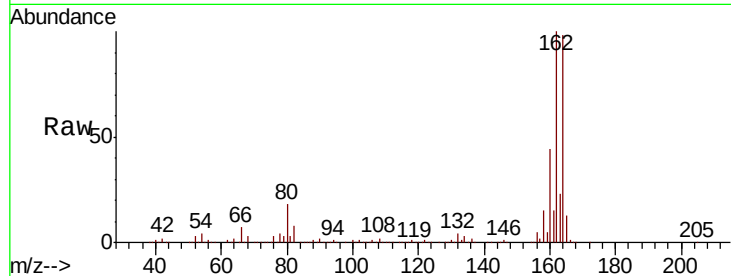
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.6	81.4	122.2	
160	44.8	35.6	53.4	

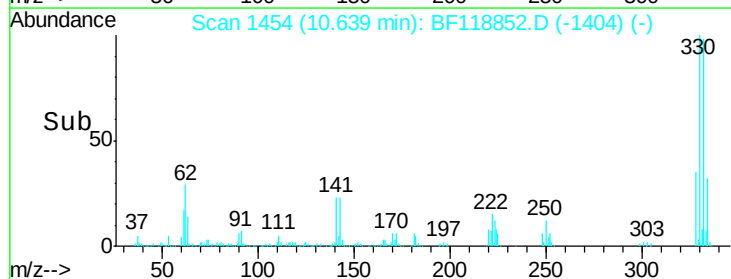
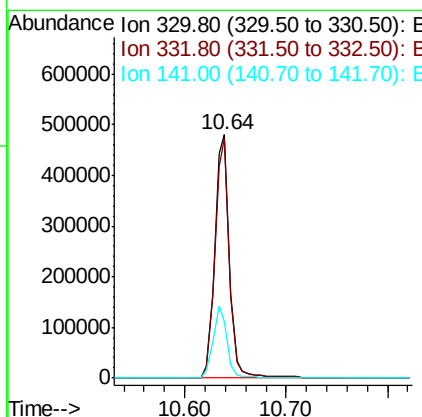
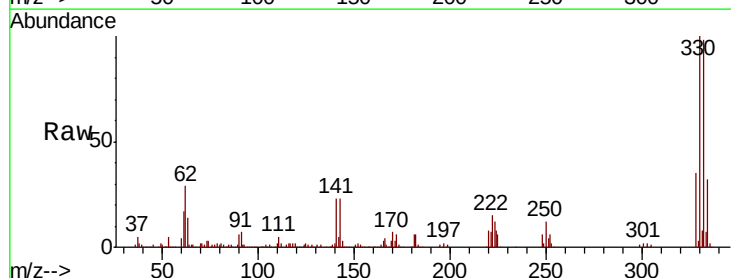
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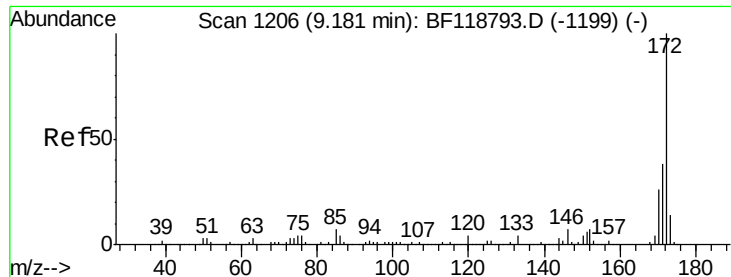
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#42
2,4,6-Tribromophenol
Concen: 86.122 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	77.3	115.9	
141	28.2	22.4	33.6	





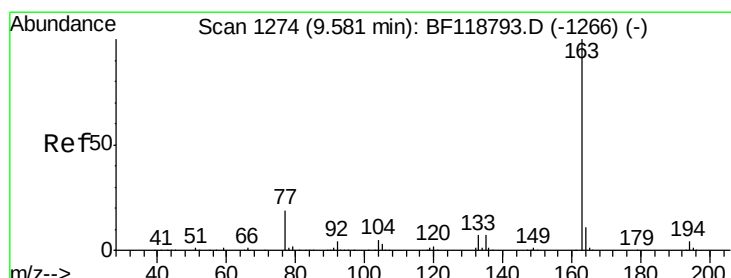
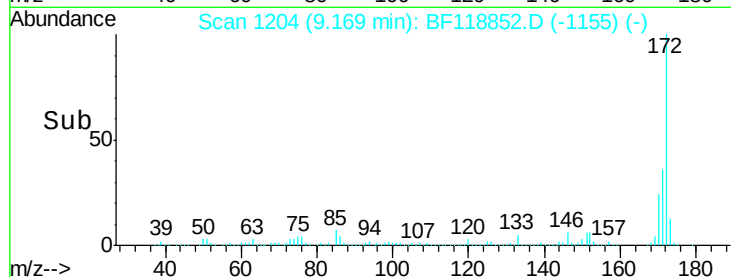
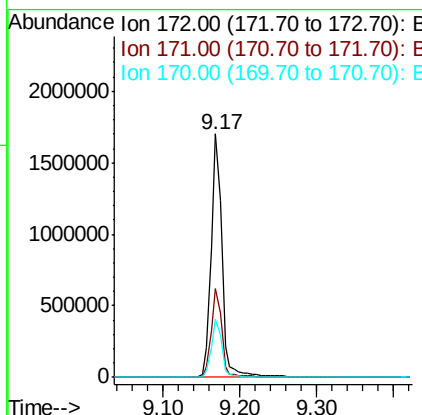
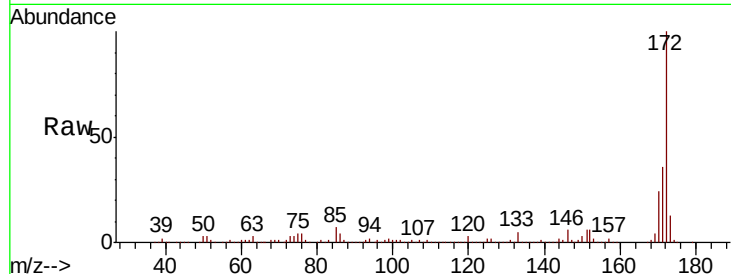
#45
2-Fluorobiphenyl
Concen: 62.421 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	24.1	20.5	30.7

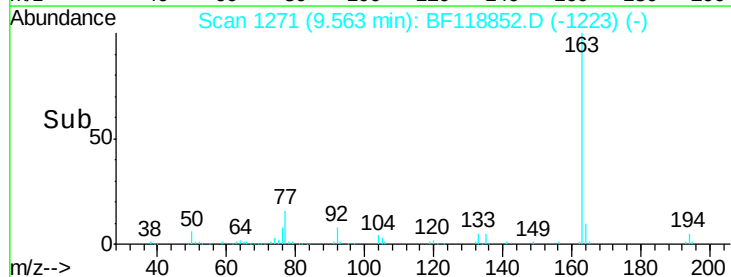
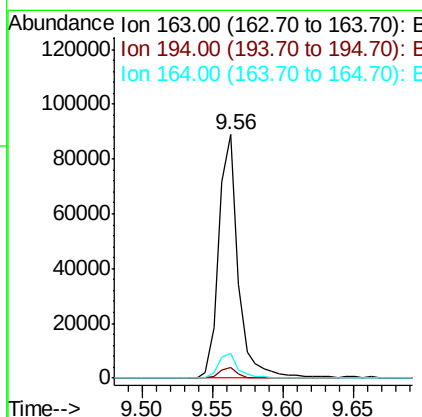
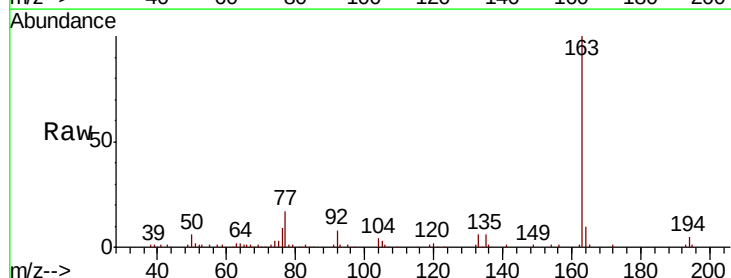
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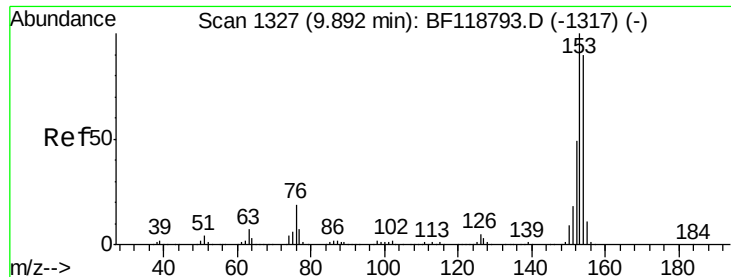
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#50
Dimethylphthalate
Concen: 2.651 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.6	5.4
164	10.2	8.7	13.1





#52

Acenaphthene

Concen: 3.953 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Instrument :

BNA_F

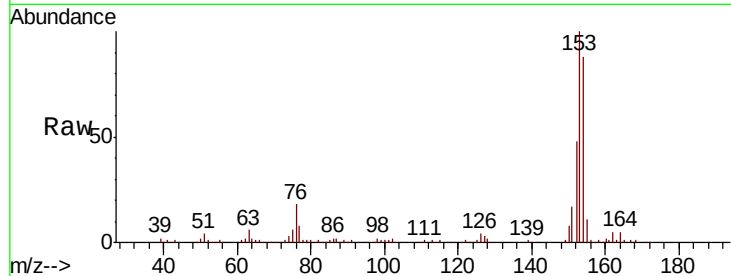
ClientSampleId :

HAM-SB-01-0-5

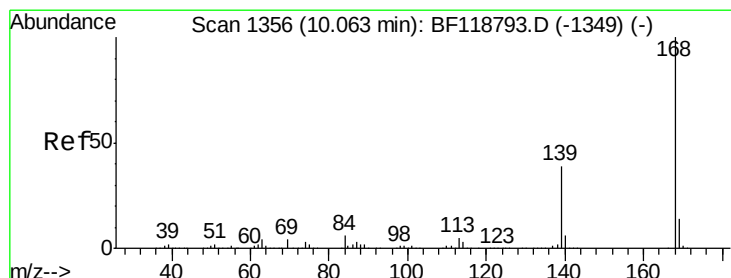
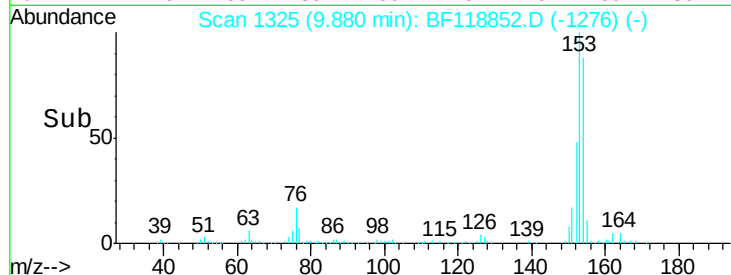
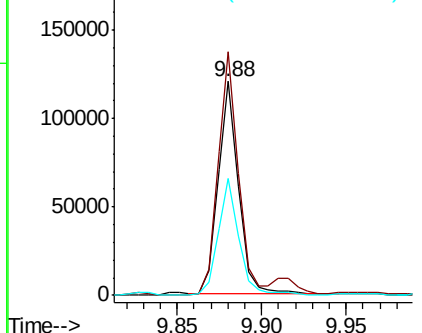
Tot Ion:	154	Resp:	101942
Ion	Ratio	Lower	Upper
154	100		
153	114.0	89.4	134.0
152	55.0	43.6	65.4

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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



#55

Dibenzofuran

Concen: 2.978 ng

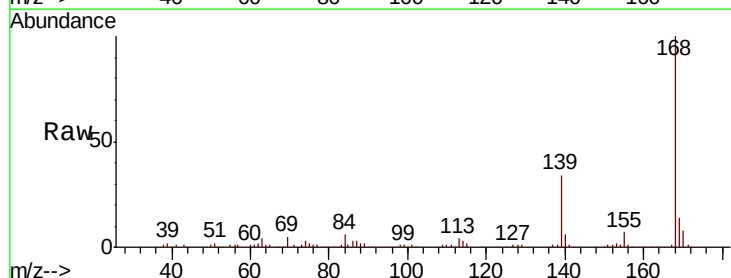
RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

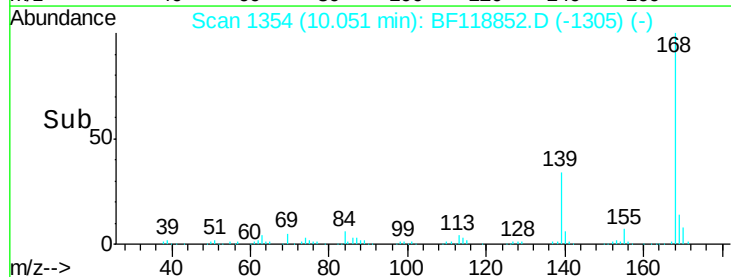
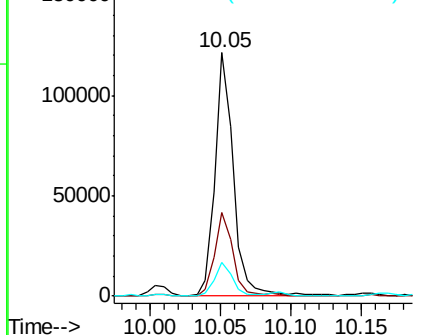
Lab File: BF118852.D

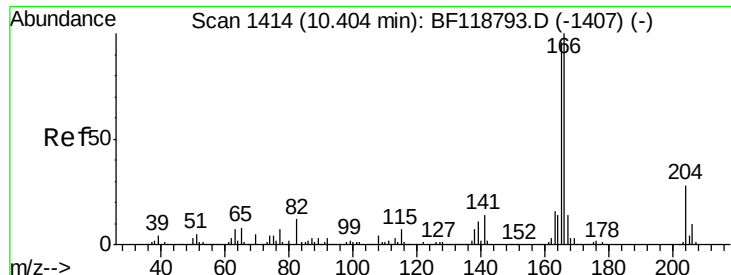
Acq: 7 Feb 2020 15:59

Tgt Ion:	168	Resp:	110983
Ion	Ratio	Lower	Upper
168	100		
139	34.4	31.6	47.4
169	14.0	11.4	17.2



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





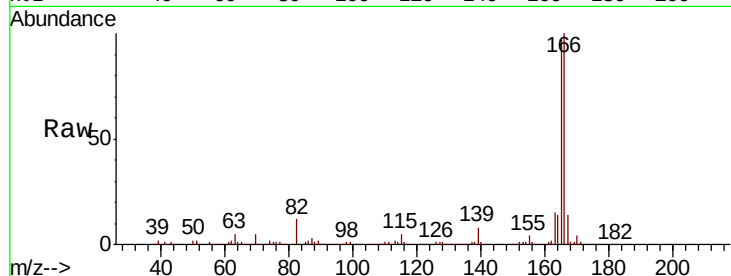
#58
 Fluorene
 Concen: 4.948 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Instrument :
 BNA_F
 ClientSampleId :
 HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.0	115.6
167	13.6	11.1	16.7

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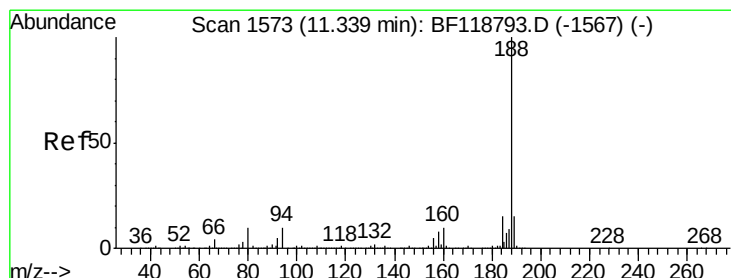
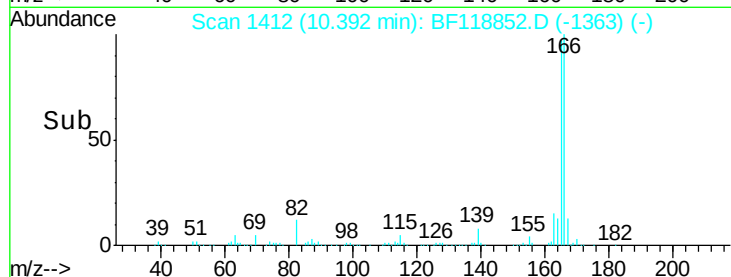
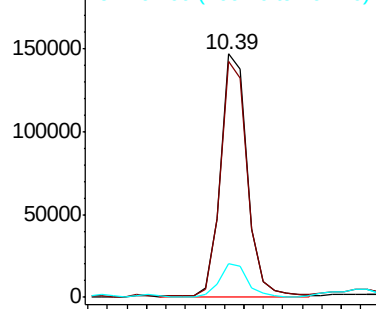


Abundance

Ion 166.00 (165.70 to 166.70): E

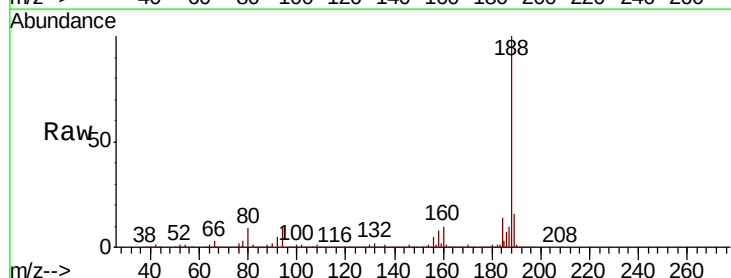
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.9	11.9
80	9.5	8.4	12.6

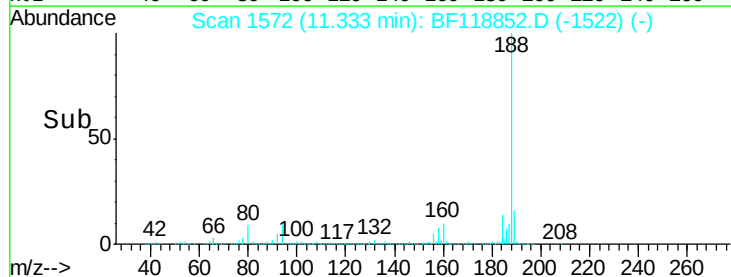
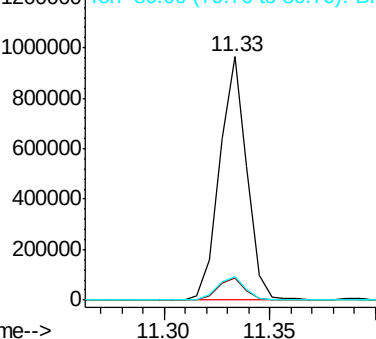


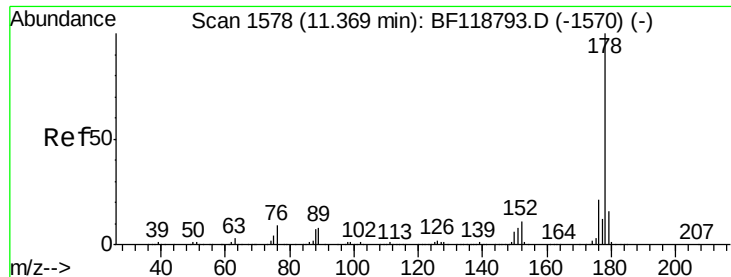
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 34.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Instrument :

BNA_F

ClientSampleId :

HAM-SB-01-0-5

Tot Ion:178 Resp: 1438790

Ion Ratio Lower Upper

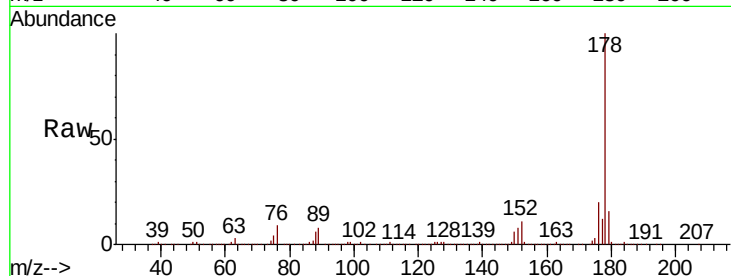
178 100

176 19.6 16.6 24.8

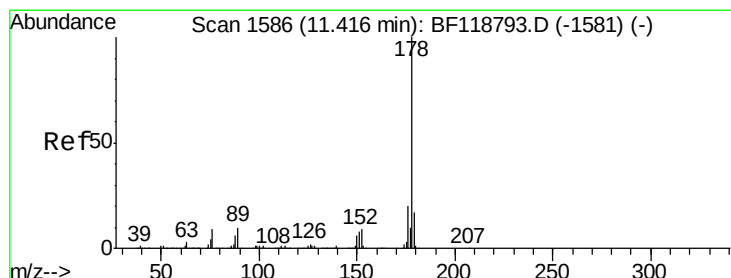
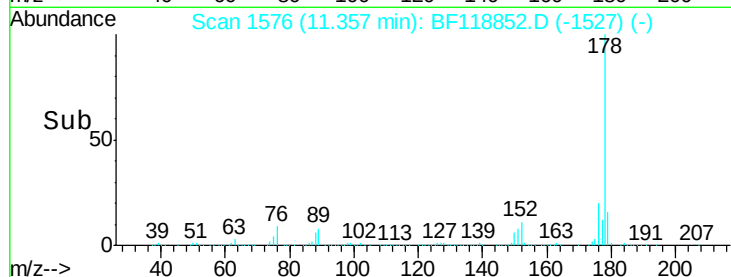
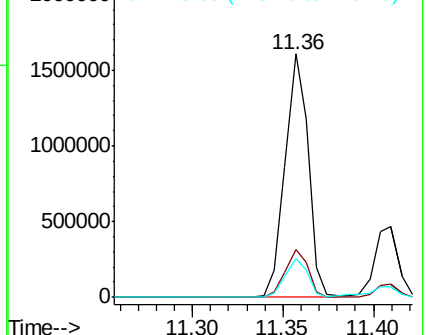
179 16.0 13.2 19.8

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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: 9.726 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Tgt Ion:178 Resp: 409441

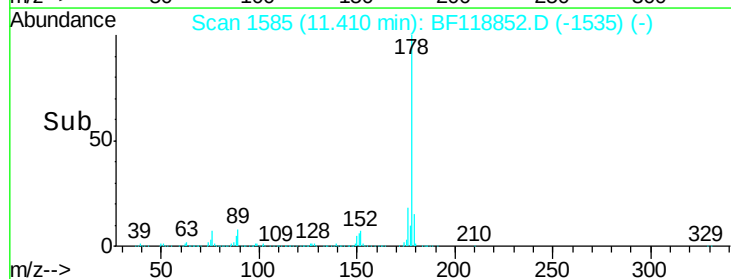
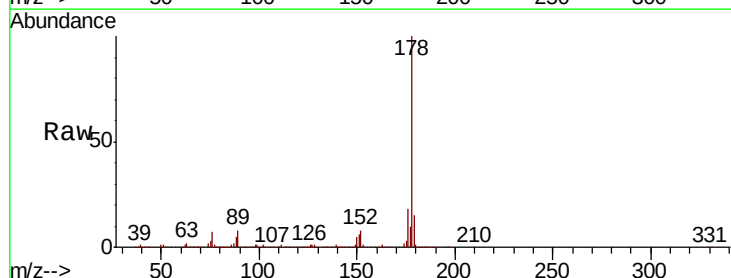
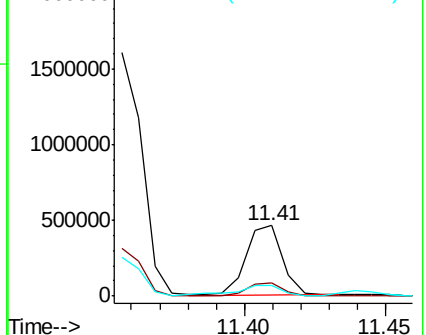
Ion Ratio Lower Upper

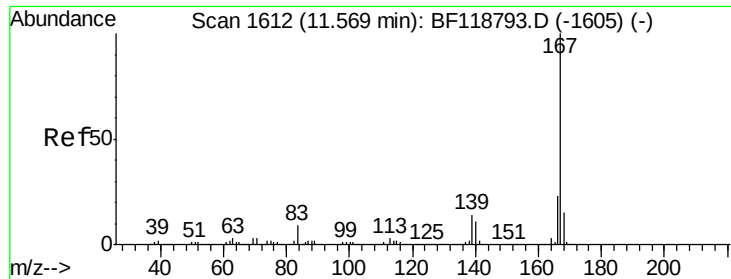
178 100

176 18.2 16.2 24.2

179 15.5 13.4 20.2

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





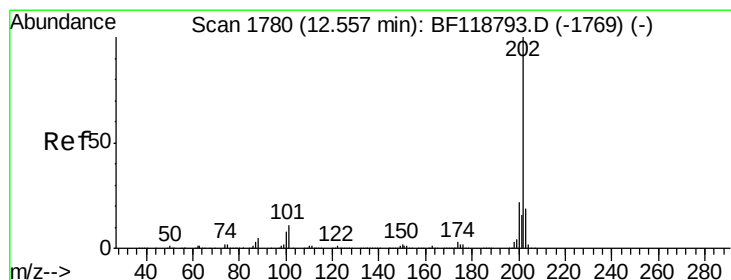
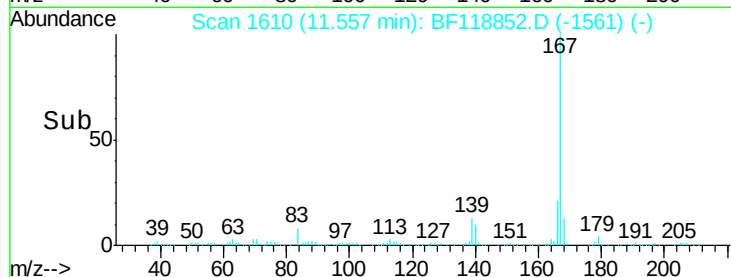
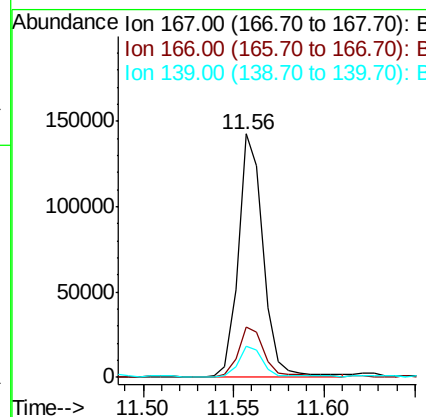
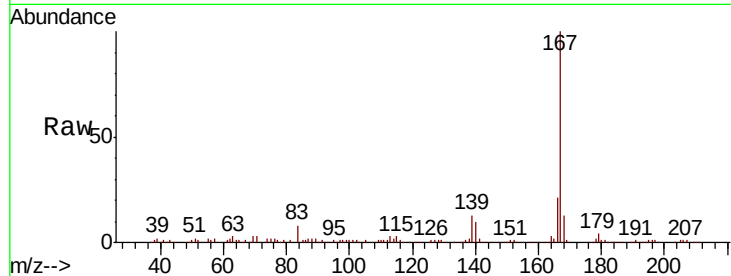
#73
 Carbazole
 Concen: 3.707 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Instrument :
 BNA_F
 ClientSampleId :
 HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.8	18.4	27.6
139	13.0	11.1	16.7

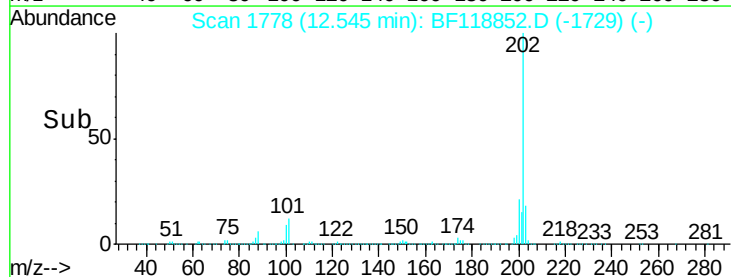
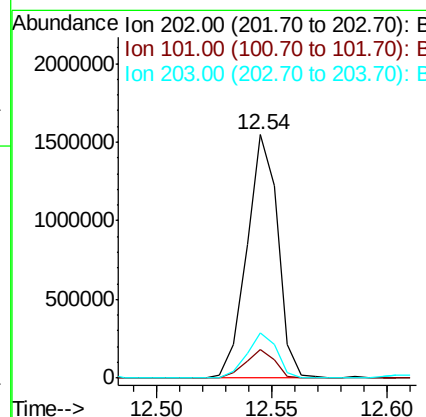
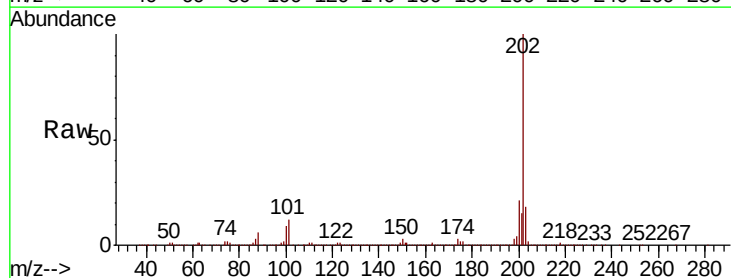
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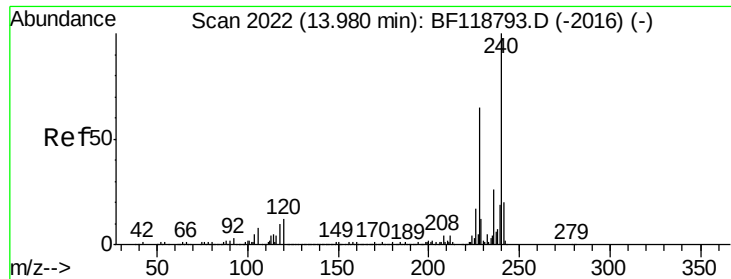
mohammad
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#75
 Fluoranthene
 Concen: 31.267 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.0
203	18.4	0.0	38.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Instrument :

BNA_F

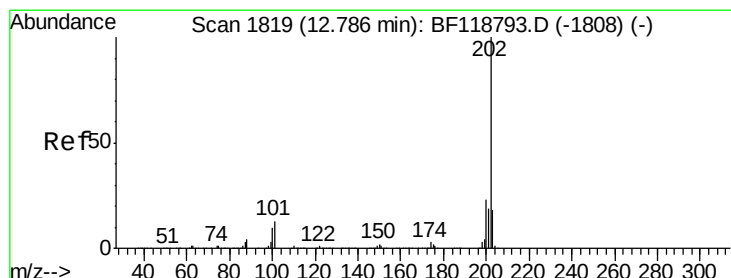
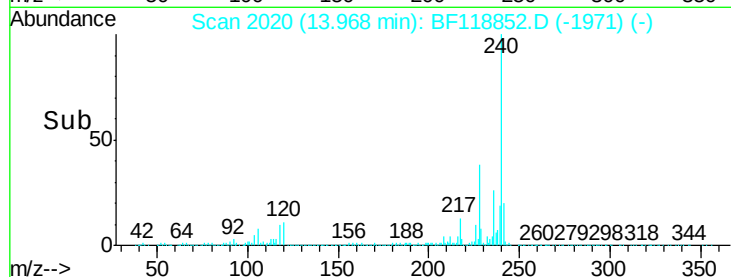
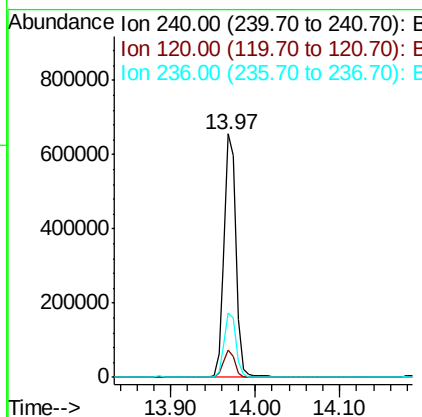
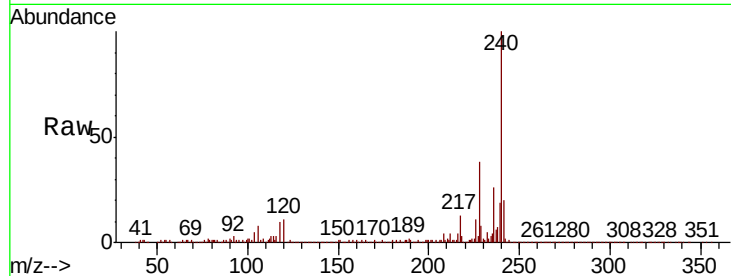
ClientSampleId :

HAM-SB-01-0-5

Tot Ion:	240	Resp:	645228
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.4	14.0
236	26.2	21.0	31.6

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#78

Pyrene

Concen: 29.068 ng

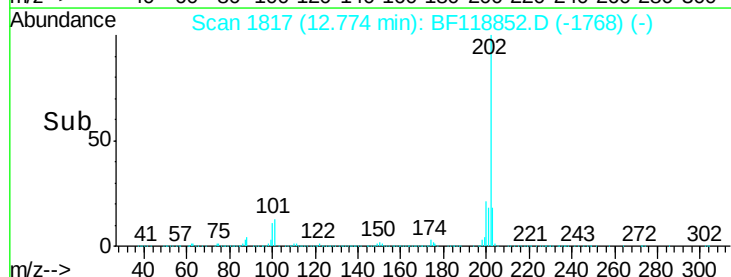
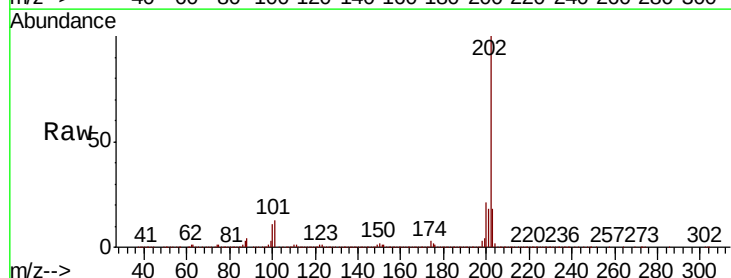
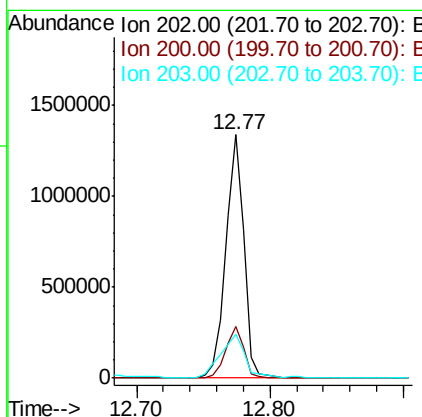
RT: 12.77 min Scan# 1817

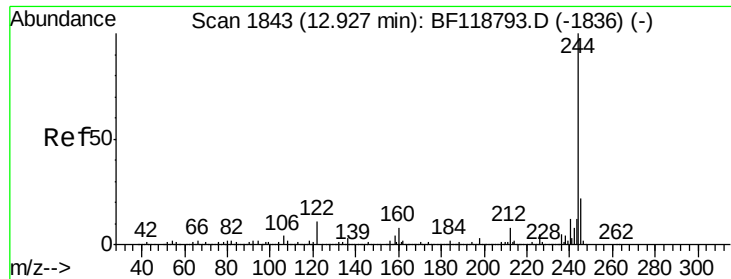
Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Tgt Ion:	202	Resp:	1286672
Ion Ratio	Lower	Upper	
202	100		
200	21.4	18.2	27.2
203	18.1	14.8	22.2





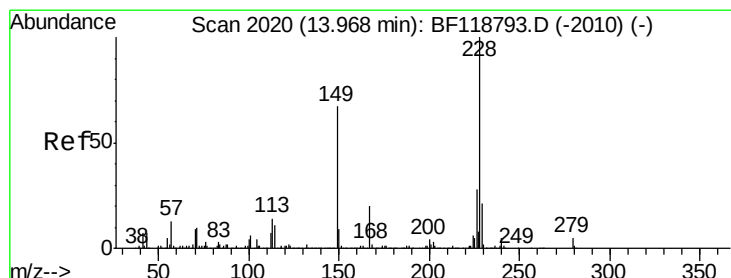
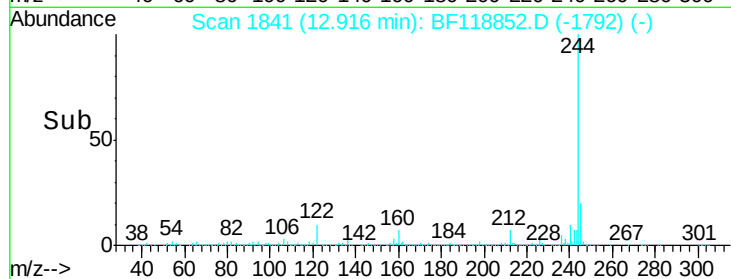
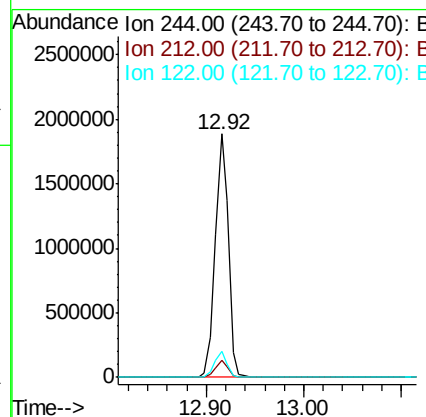
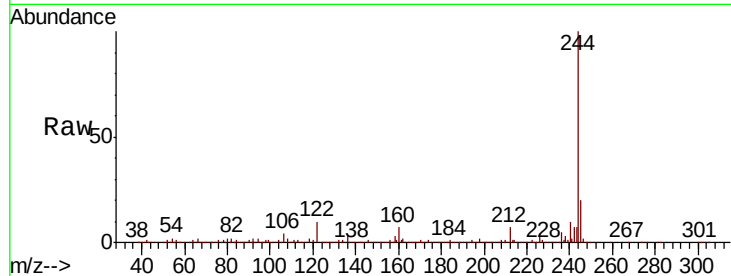
#79
 Terphenyl-d14
 Concen: 55.946 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Instrument :
 BNA_F
 ClientSampleId :
 HAM-SB-01-0-5

Tot Ion:244 Resp: 1757424
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.5 9.7
 122 10.4 8.9 13.3

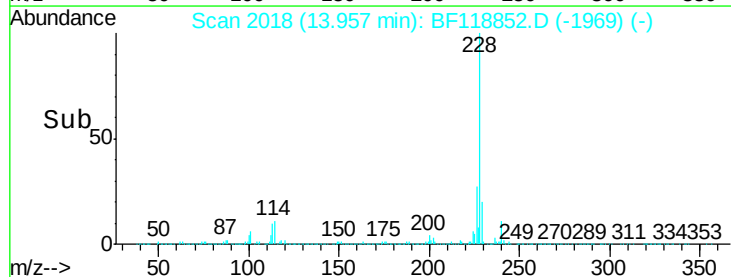
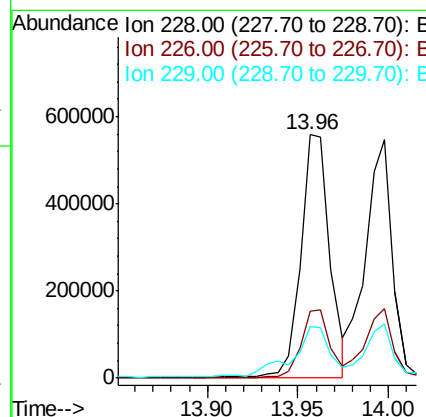
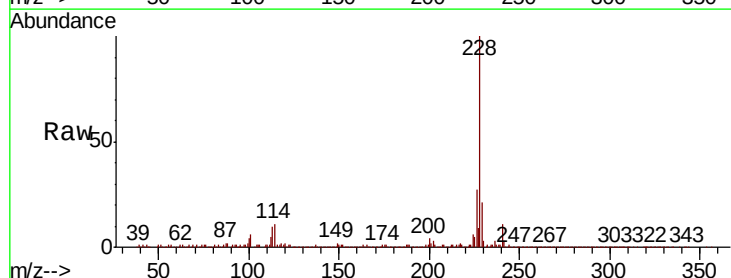
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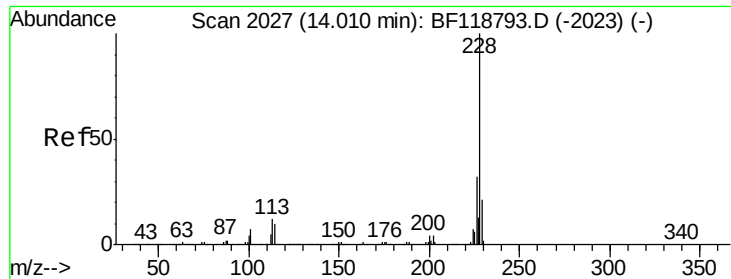
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#81
 Benzo(a)anthracene
 Concen: 16.291 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF118852.D
 Acq: 7 Feb 2020 15:59

Tgt Ion:228 Resp: 625503
 Ion Ratio Lower Upper
 228 100
 226 27.4 22.7 34.1
 229 21.1 16.6 25.0





#83

Chrysene

Concen: 14.783 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF118852.D

Acq: 7 Feb 2020 15:59

Instrument :

BNA_F

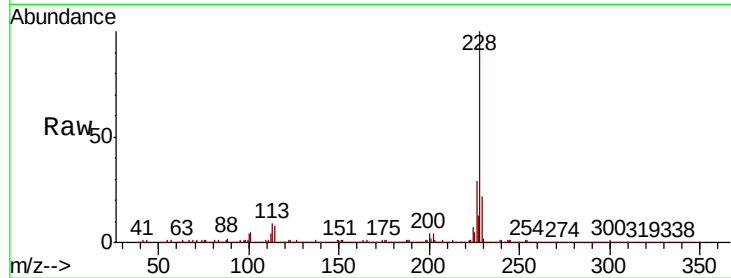
ClientSampleId :

HAM-SB-01-0-5

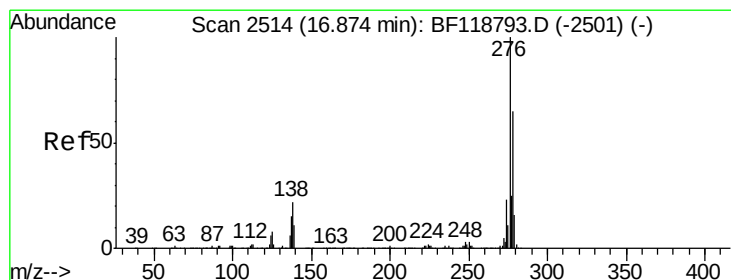
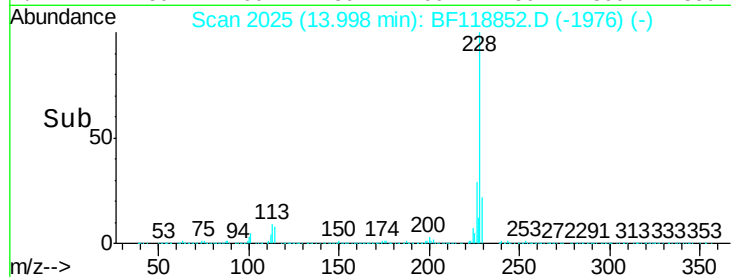
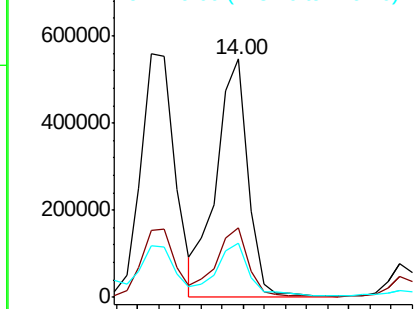
Tot Ion:	228	Resp:	569677
Ion Ratio	Lower	Upper	
228	100		
226	29.3	25.4	38.0
229	22.5	16.9	25.3

Manual Integrations
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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



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.802 ng

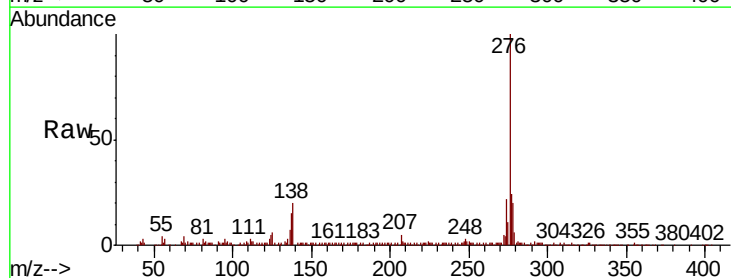
RT: 16.85 min Scan# 2510

Delta R.T. -0.02 min

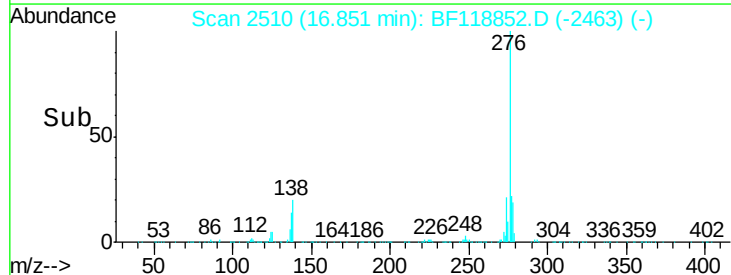
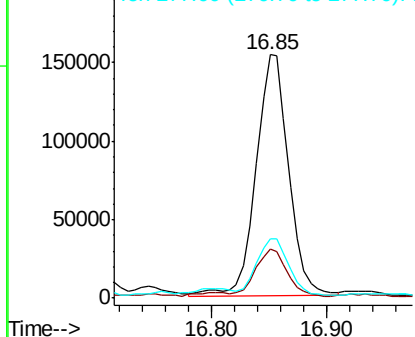
Lab File: BF118852.D

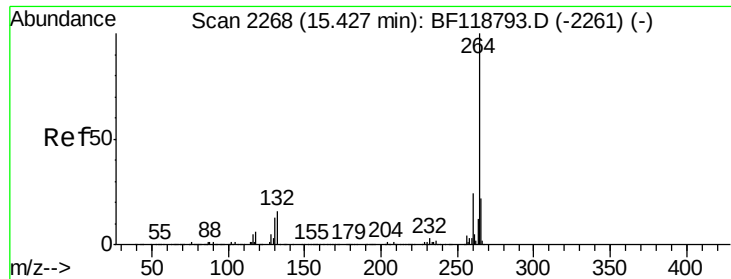
Acq: 7 Feb 2020 15:59

Tgt Ion:	276	Resp:	302082
Ion Ratio	Lower	Upper	
276	100		
138	18.7	18.3	27.5
277	22.9	20.2	30.4



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





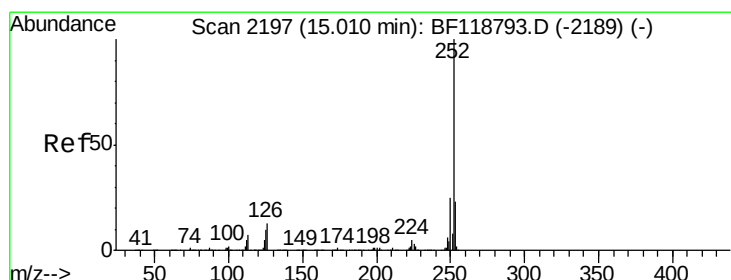
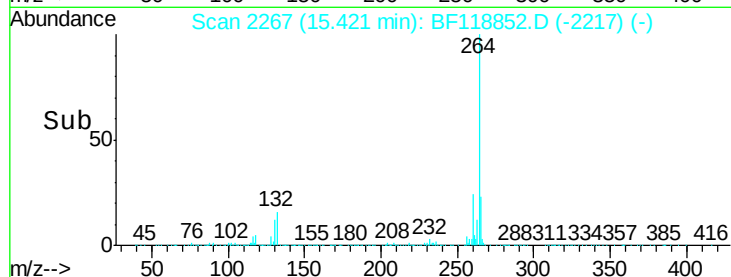
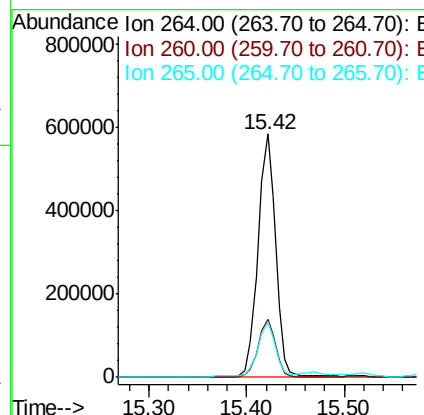
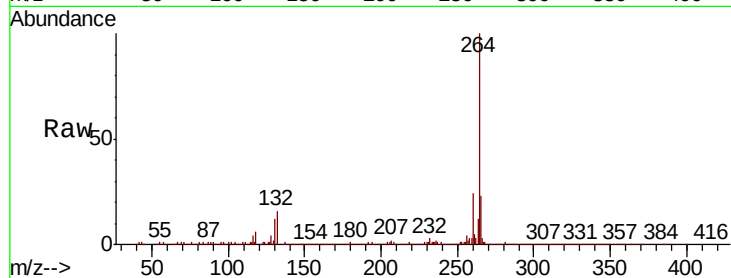
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.8	17.2	25.8

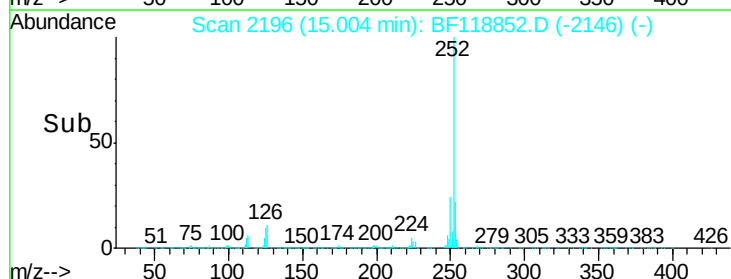
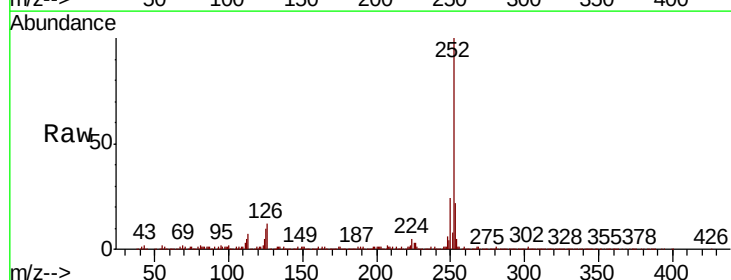
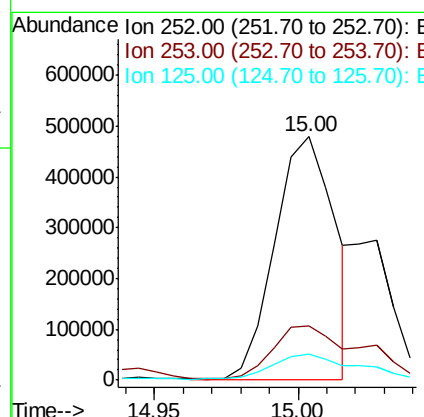
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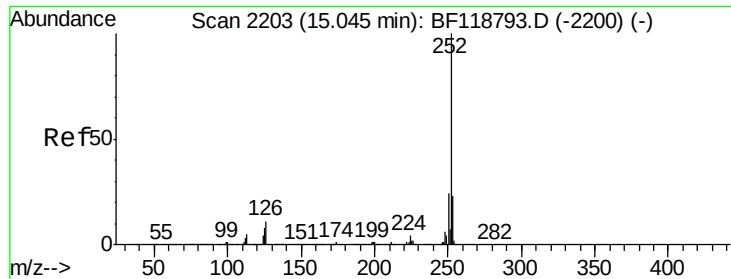
mohammad
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#88
Benzo(b)fluoranthene
Concen: 15.151 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.4	27.6
125	10.5	8.1	12.1





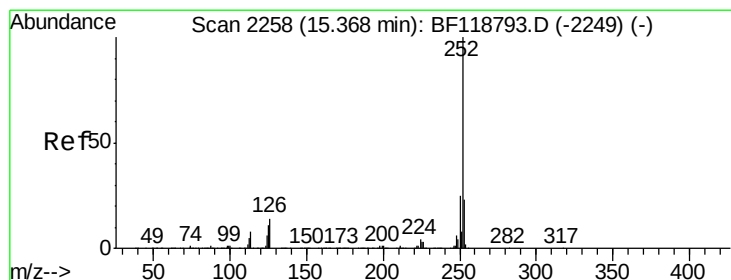
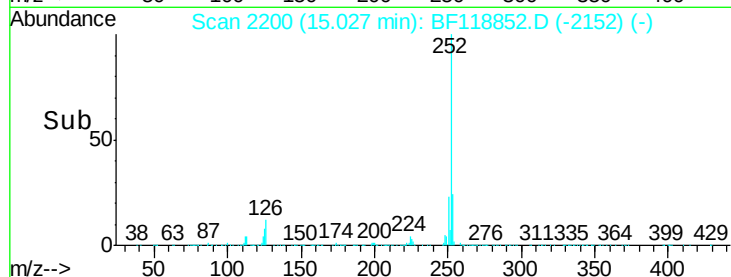
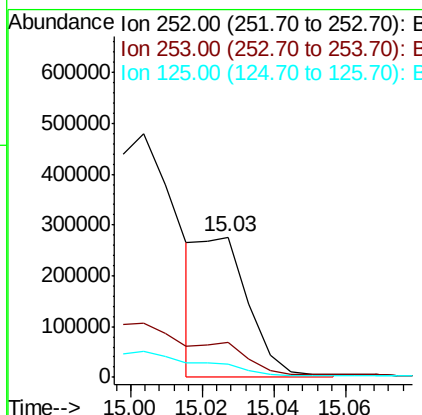
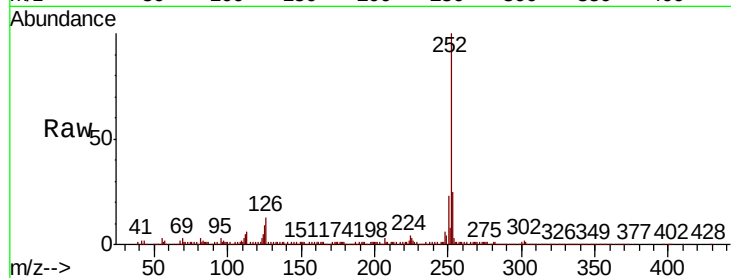
#89
Benzo(k)fluoranthene
Concen: 6.696 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.2	27.4
125	9.5	7.0	10.6

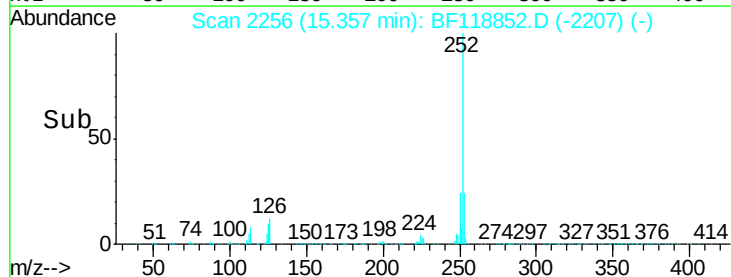
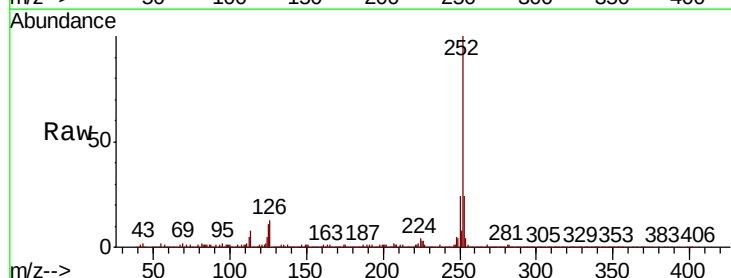
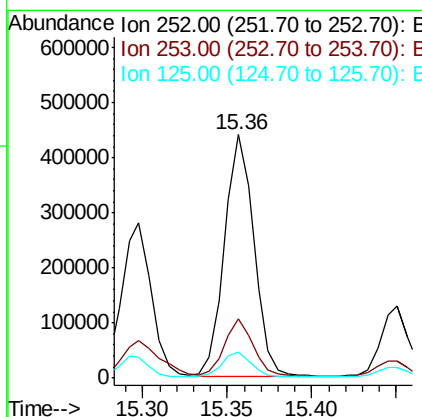
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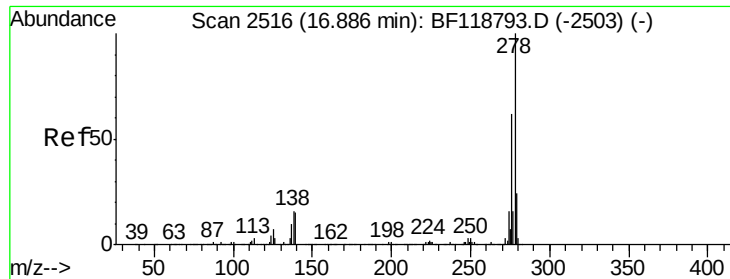
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#90
Benzo(a)pyrene
Concen: 13.716 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.1	27.1
125	10.9	8.7	13.1





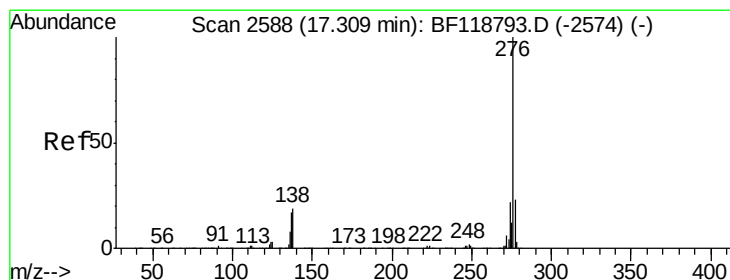
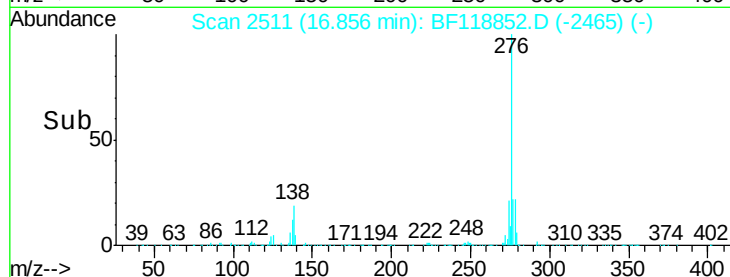
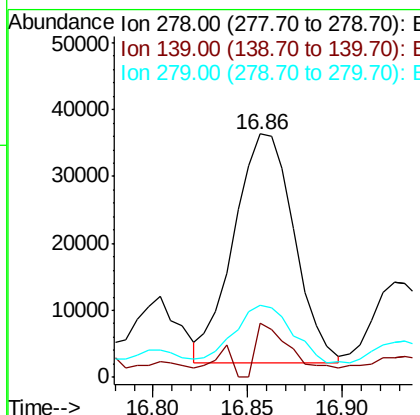
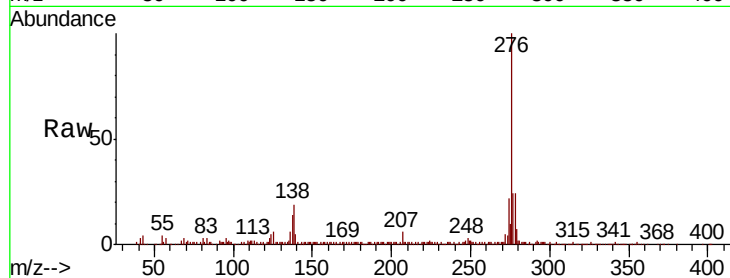
#91
Dibenzo(a,h)anthracene
Concen: 2.175 ng m
RT: 16.86 min Scan# 2511
Delta R.T. -0.03 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Instrument :
BNA_F
ClientSampleId :
HAM-SB-01-0-5

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.4	12.3	18.5#
279	29.5	19.1	28.7#

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#92
Benzo(g,h,i)perylene
Concen: 8.152 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.02 min
Lab File: BF118852.D
Acq: 7 Feb 2020 15:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.7	28.1
138	19.3	15.4	23.2

