

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\
 Data File : BF112091.D
 Acq On : 17 Jan 2019 16:05
 Operator : JU/SJ
 Sample : K1167-09
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CLOVER-YARD-A

Manual Integrations
 APPROVED

Sohil
 1/18/2019 11:45:50 AM

Quant Time: Jan 18 00:36:09 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 16 18:22:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	338721	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	1225811	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	567985	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	922127	20.00	ng	0.00
76) Chrysene-d12	14.03	240	748514	20.00	ng	0.00
87) Perylene-d12	15.50	264	634874	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	2300918	123.29	ng	0.01
7) Phenol-d6	6.51	99	2906951	124.50	ng	0.00
23) Nitrobenzene-d5	7.42	82	1771000	99.82	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	679322	110.87	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	2614853	67.50	ng	0.00
79) Terphenyl-d14	12.97	244	2250302	63.96	ng	0.00
Target Compounds						
10) Phenol	6.52	94	181100	7.097	ng	# 73
31) Naphthalene	8.16	128	283042	5.077	ng	99
37) 2-Methylnaphthalene	8.86	142	120397	3.180	ng	# 92
49) Acenaphthylene	9.76	152	407140	7.505	ng	99
50) Dimethylphthalate	9.61	163	286255	6.911	ng	# 91
71) Phenanthrene	11.41	178	170647	3.677	ng	97
75) Fluoranthene	12.60	202	201461	4.112	ng	99
78) Pyrene	12.83	202	317585	6.431	ng	99
81) Benzo(a)anthracene	14.02	228	175160m	4.081	ng	
83) Chrysene	14.05	228	219304m	5.400	ng	
86) Indeno(1,2,3-cd)pyrene	16.98	276	125024	3.337	ng	97
88) Benzo(b)fluoranthene	15.07	252	320123m	8.883	ng	
89) Benzo(k)fluoranthene	15.10	252	79350m	2.275	ng	
90) Benzo(a)pyrene	15.44	252	153236	4.637	ng	# 98
92) Benzo(a,h,i)perylene	17.43	276	112008	3.873	ng	97

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

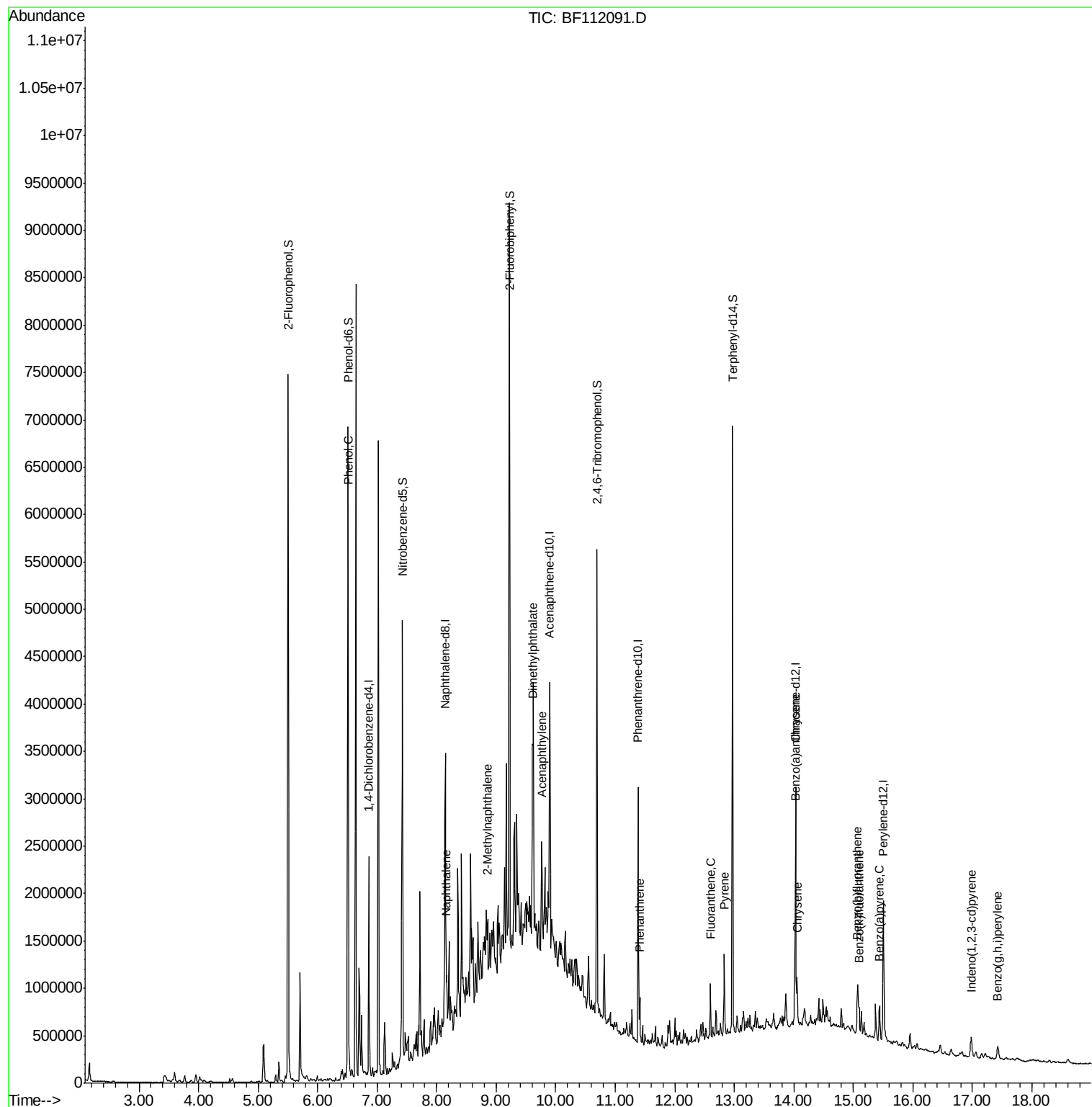
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\
Data File : BF112091.D
Acq On : 17 Jan 2019 16:05
Operator : JU/SJ
Sample : K1167-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

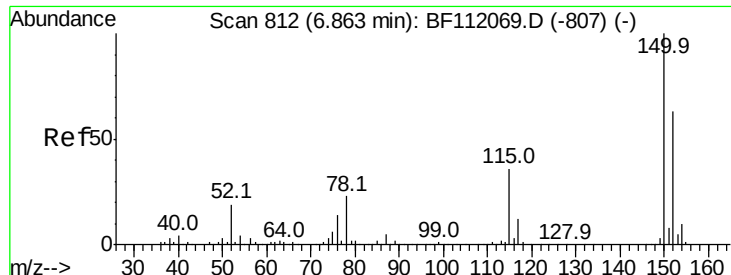
Instrument :
BNA_F
ClientSampleId :
CLOVER-YARD-A

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM

Quant Time: Jan 18 00:36:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 16 18:22:05 2019
Response via : Initial Calibration





#1

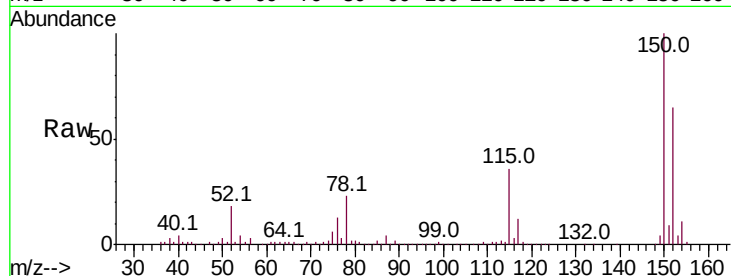
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. 0.00 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampleId :
CLOVER-YARD-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	127.4	191.0
115	54.7	45.5	68.3

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM



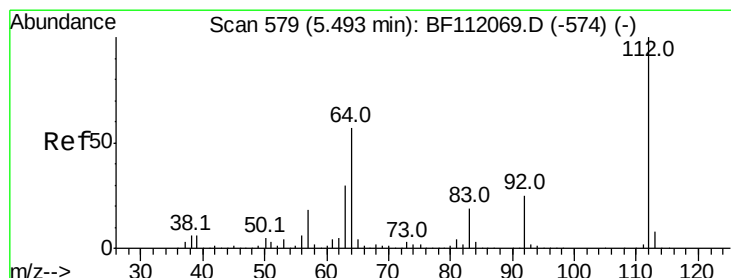
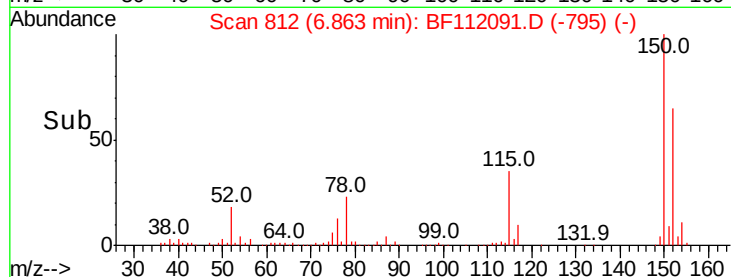
Abundance

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

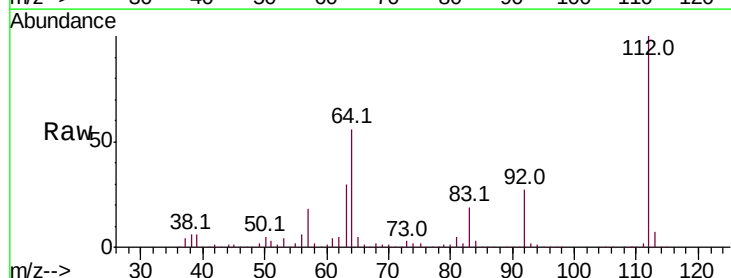
Time-->



#5

2-Fluorophenol
Concen: 123.295 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	45.7	68.5
63	30.1	23.6	35.4



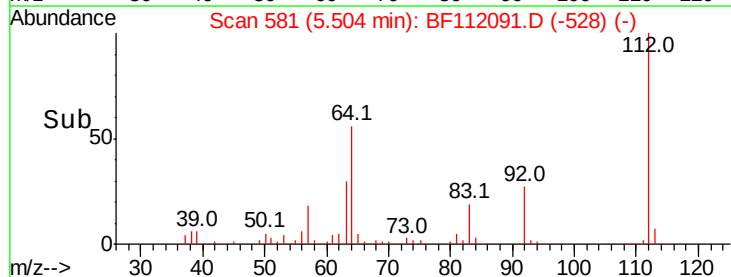
Abundance

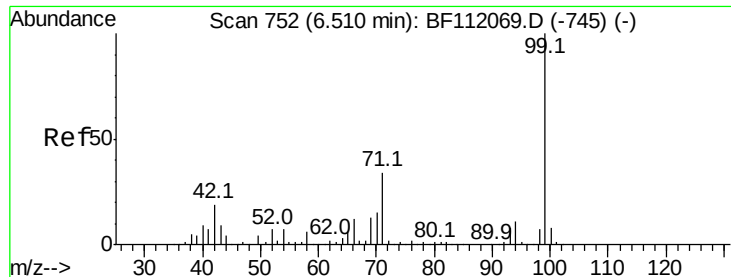
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 124.500 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

ClientSampleId :

CLOVER-YARD-A

Tot Ion: 99 Resp: 2906951

Ion Ratio Lower Upper

99 100

42 19.9 15.1 22.7

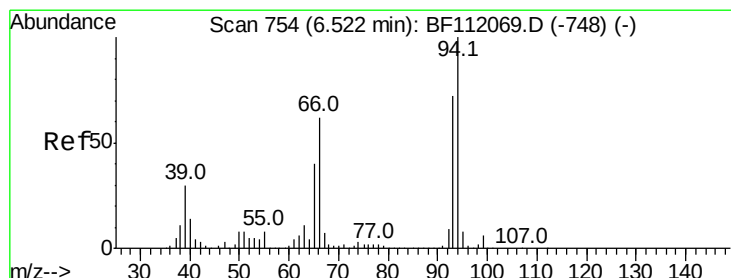
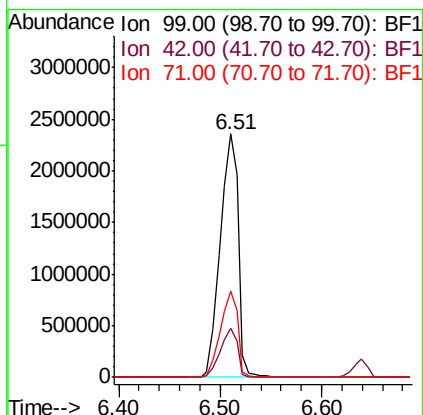
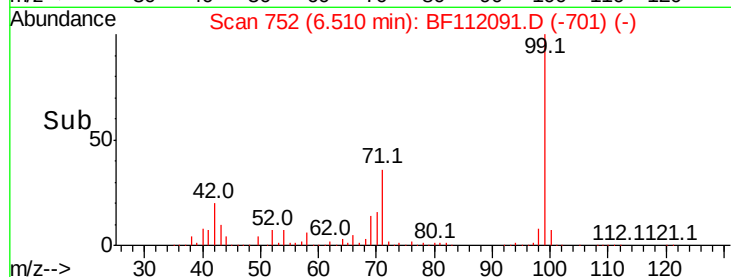
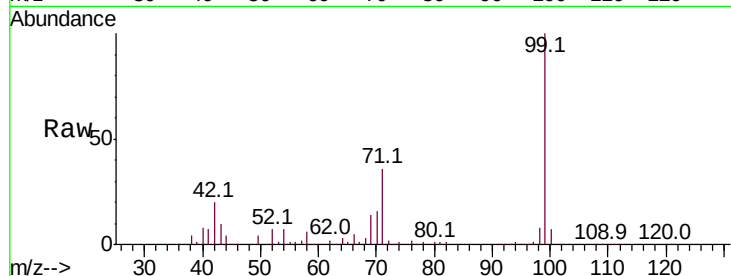
71 35.6 26.9 40.3

Manual Integrations

APPROVED

Sohil

1/18/2019 11:45:50 AM



#10

Phenol

Concen: 7.097 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

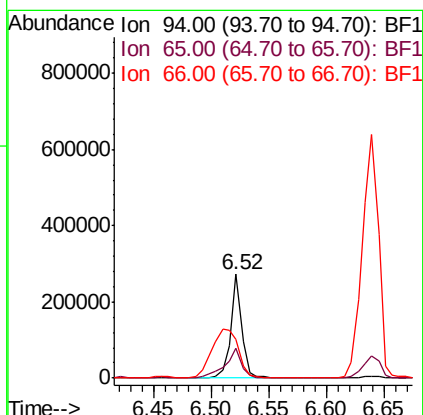
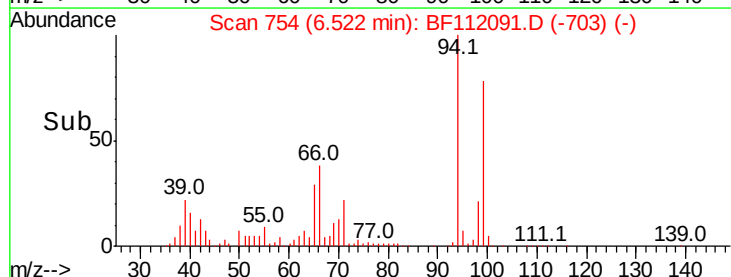
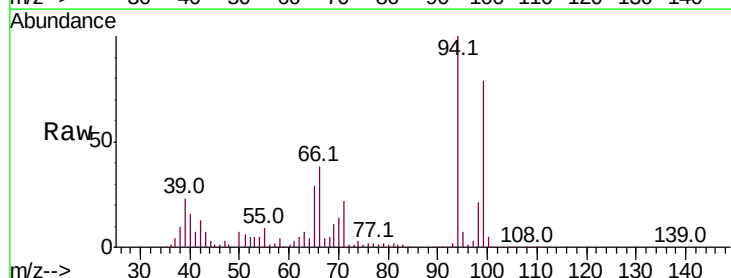
Tgt Ion: 94 Resp: 181100

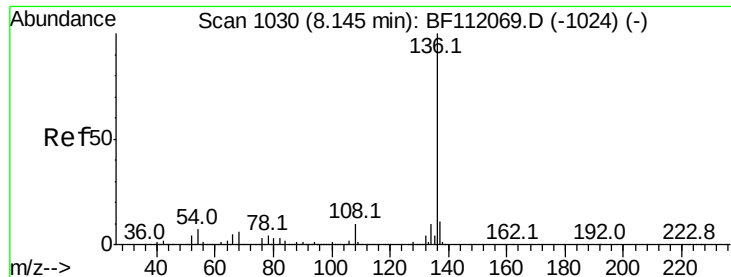
Ion Ratio Lower Upper

94 100

65 28.7 20.3 60.3

66 37.9 42.4 82.4#





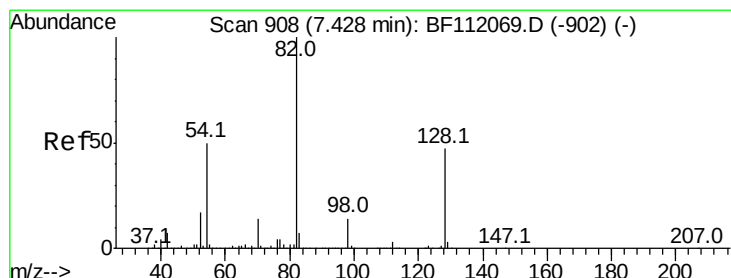
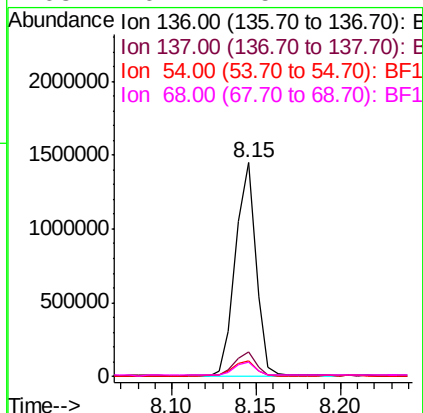
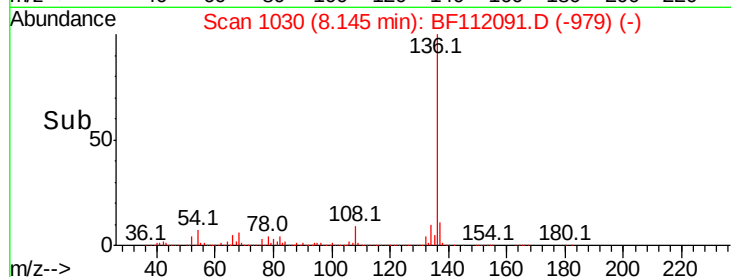
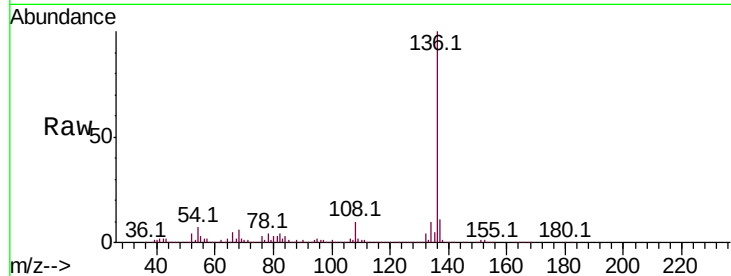
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1030
Delta R.T. 0.00 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampleId :
CLOVER-YARD-A

Tot Ion	136	Resp	1225811
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.2	5.9	8.9
68	6.4	5.1	7.7

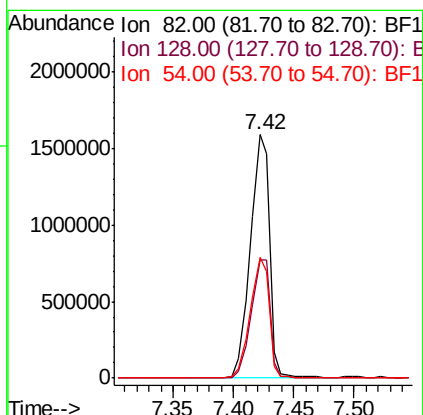
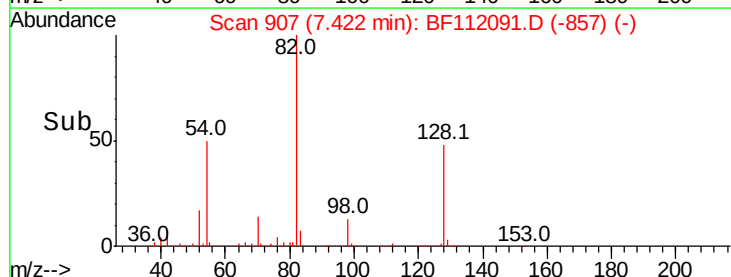
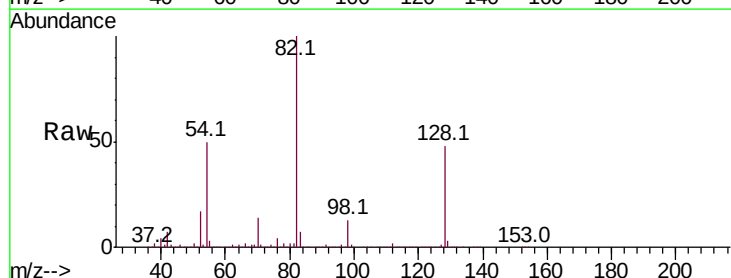
Manual Integrations
APPROVED

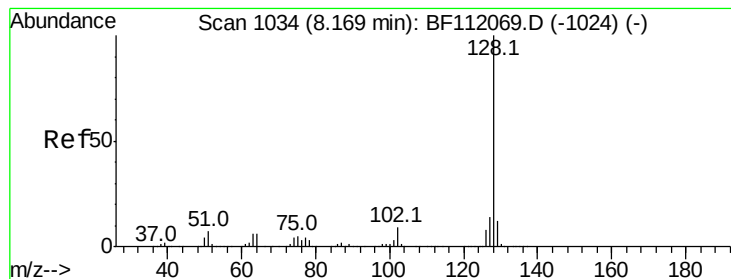
Sohil
1/18/2019 11:45:50 AM



#23
Nitrobenzene-d5
Concen: 99.817 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Tgt Ion	82	Resp	1771000
Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.8	56.8
54	49.6	39.7	59.5





#31

Naphthalene

Concen: 5.077 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

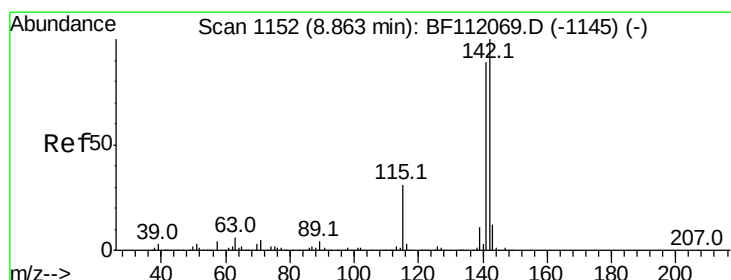
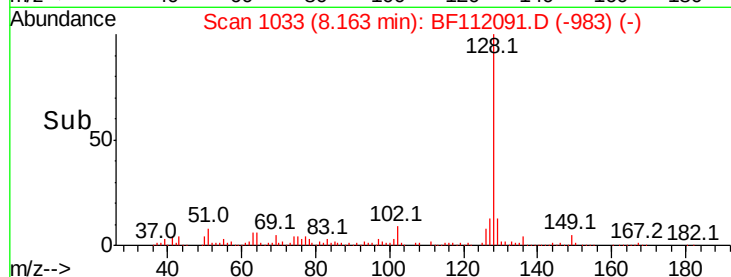
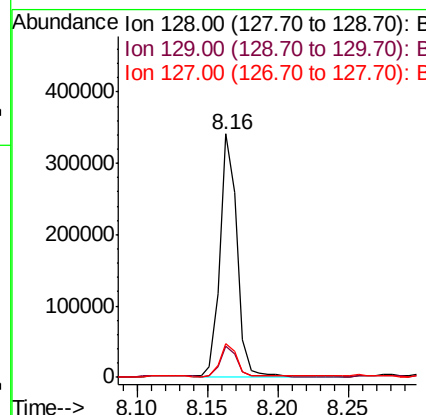
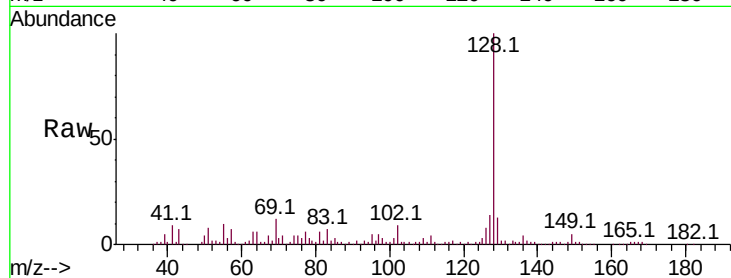
ClientSampleId :

CLOVER-YARD-A

Tot Ion:	128	Resp:	283042
Ion Ratio	Lower	Upper	
128	100		
129	12.7	9.6	14.4
127	13.7	11.1	16.7

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM



#37

2-Methylnaphthalene

Concen: 3.180 ng

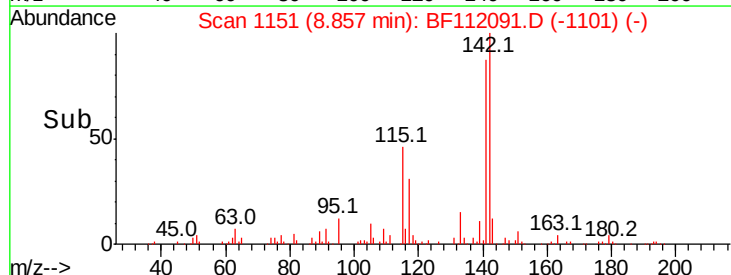
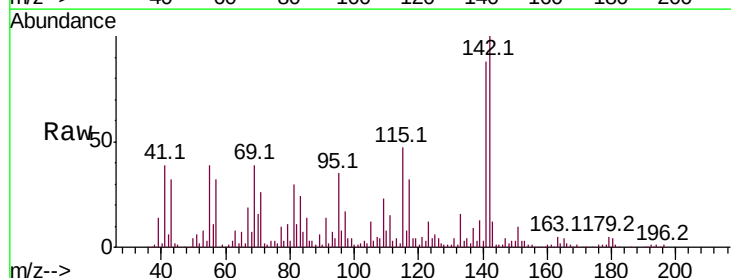
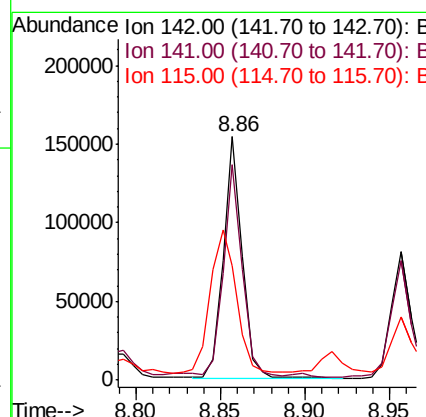
RT: 8.86 min Scan# 1151

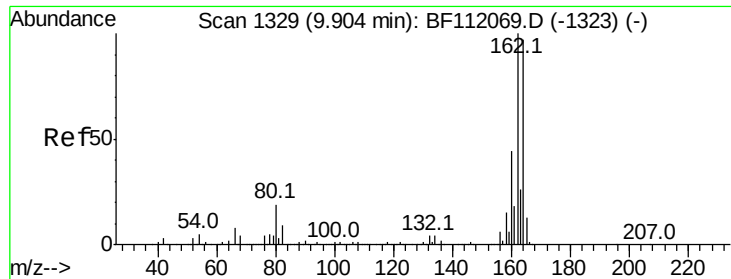
Delta R.T. -0.01 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Tgt Ion:	142	Resp:	120397
Ion Ratio	Lower	Upper	
142	100		
141	88.3	70.9	106.3
115	47.1	24.9	37.3#





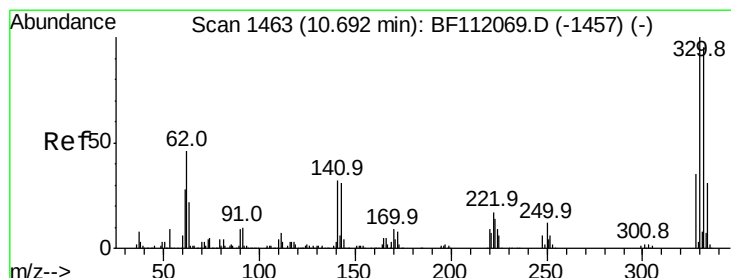
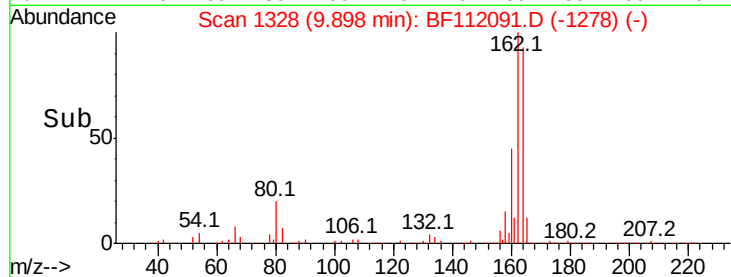
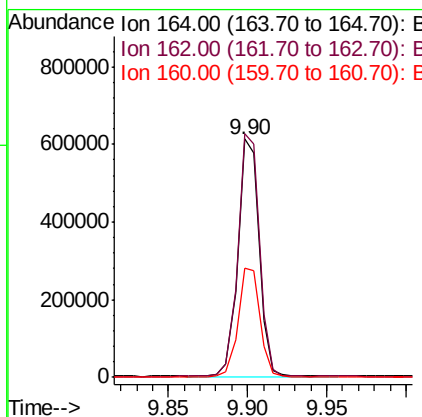
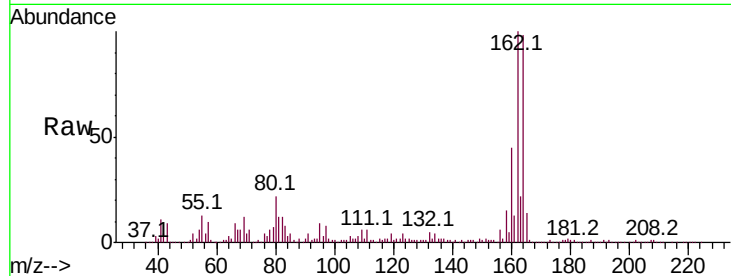
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampleId :
CLOVER-YARD-A

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.2	82.2	123.4	
160	45.7	36.2	54.4	

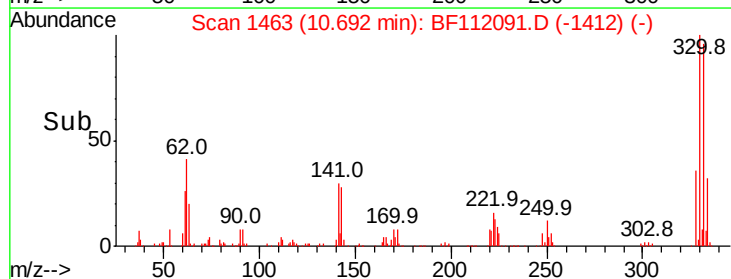
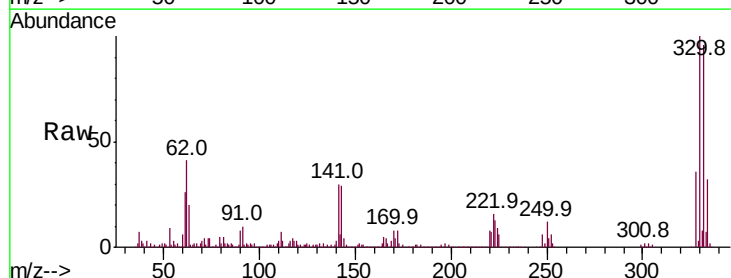
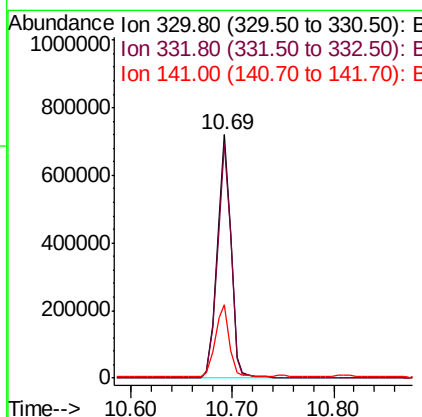
Manual Integrations
APPROVED

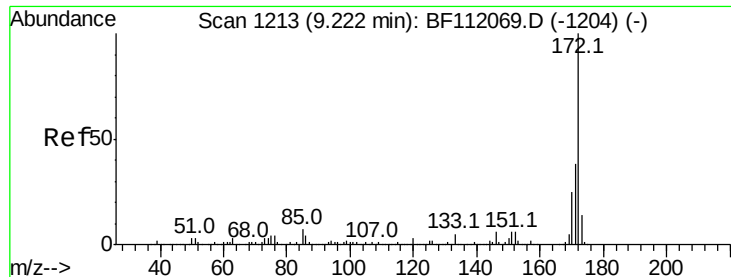
Sohil
1/18/2019 11:45:50 AM



#42
2,4,6-Tribromophenol
Concen: 110.868 ng
RT: 10.69 min Scan# 1463
Delta R.T. 0.00 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.4	76.6	114.8	
141	29.8	24.3	36.5	





#45

2-Fluorobiphenyl

Concen: 67.496 ng

RT: 9.22 min Scan# 1213

Delta R.T. 0.00 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

ClientSampleId :

CLOVER-YARD-A

Tot Ion:172 Resp: 2614853

Ion Ratio Lower Upper

172 100

171 38.0 30.5 45.7

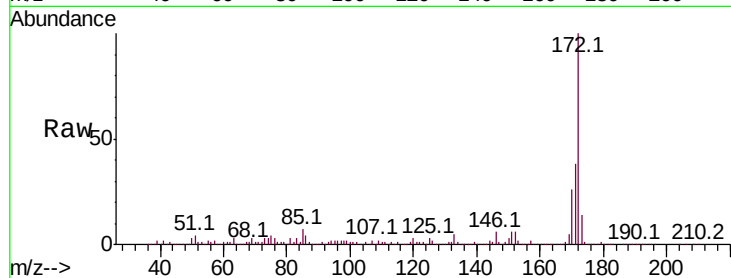
170 25.7 20.2 30.4

Manual Integrations

APPROVED

Sohil

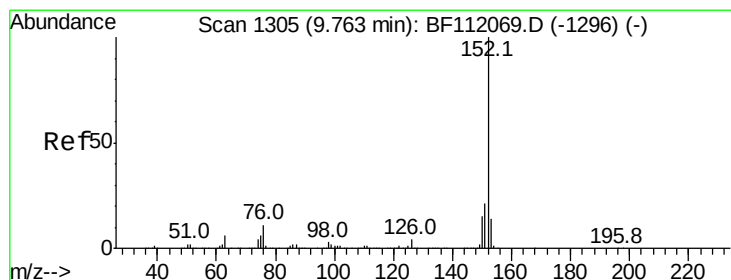
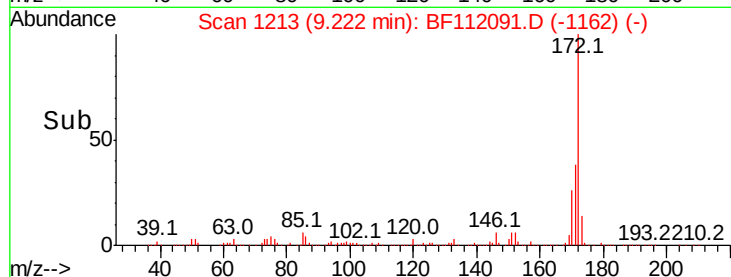
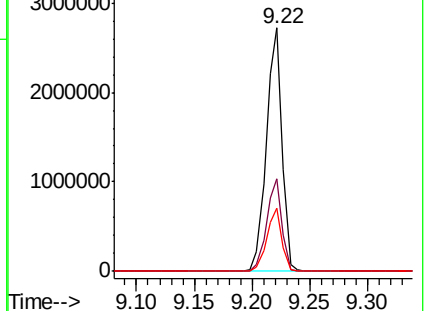
1/18/2019 11:45:50 AM



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Acenaphthylene

Concen: 7.505 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

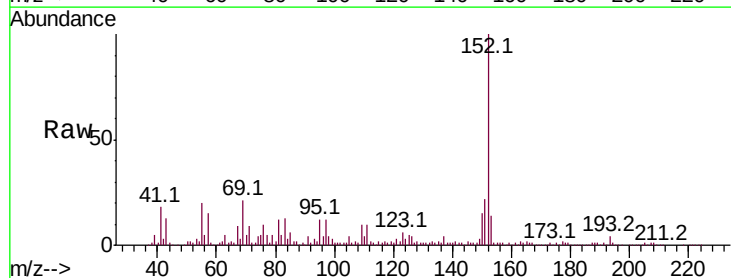
Tgt Ion:152 Resp: 407140

Ion Ratio Lower Upper

152 100

151 21.8 17.0 25.6

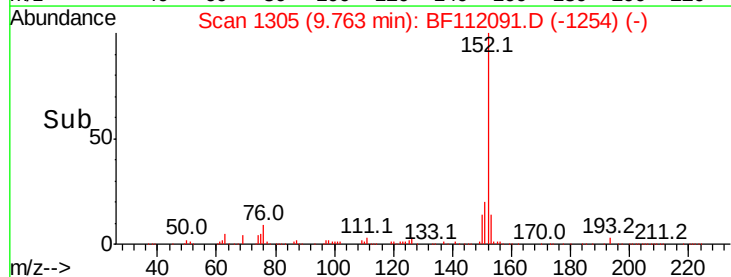
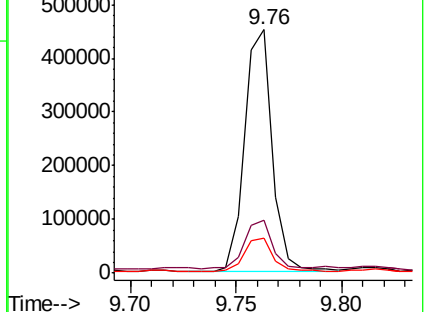
153 14.3 11.2 16.8

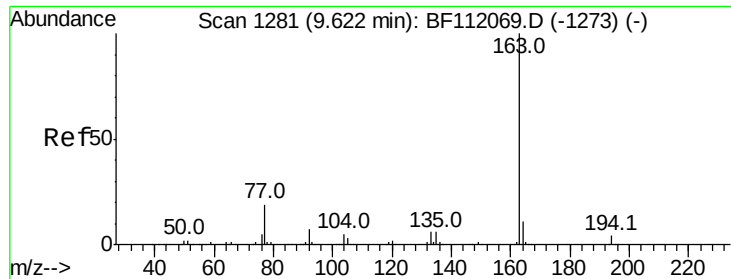


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





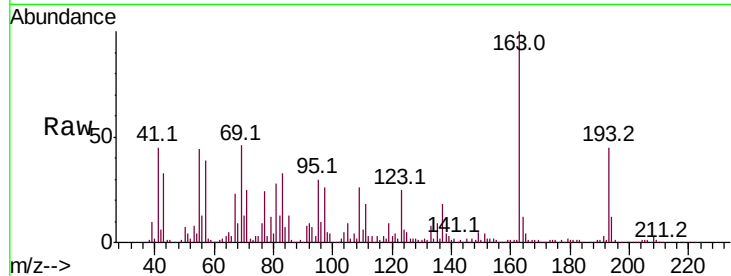
#50
Dimethylphthalate
Concen: 6.911 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampleId :
CLOVER-YARD-A

Tot Ion	Ratio	Resp	Lower	Upper
163	100	286255		
194	11.6	3.3	4.9#	
164	11.8	8.5	12.7	

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM

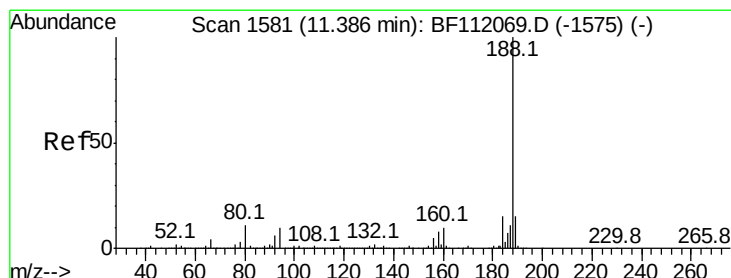
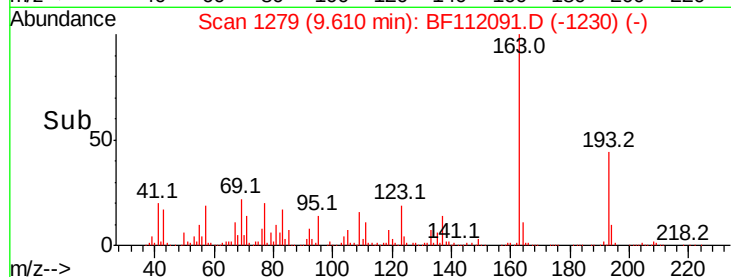
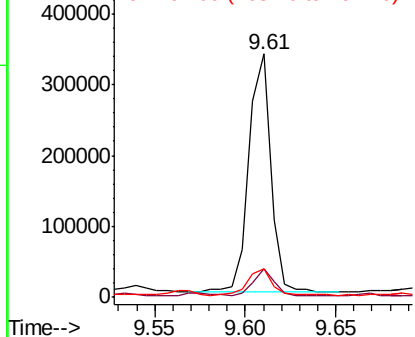


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

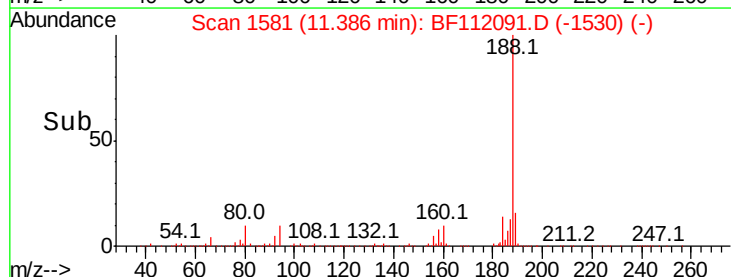
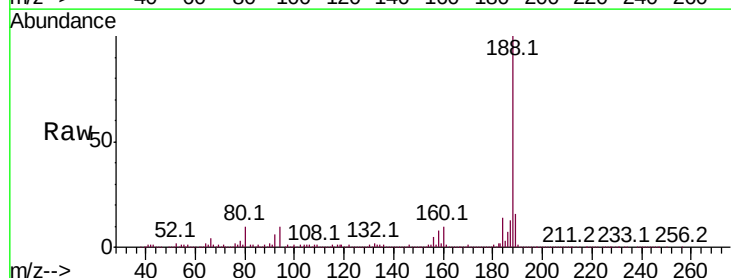
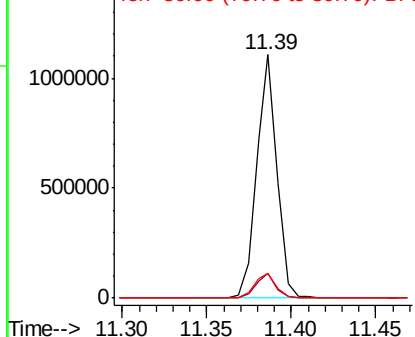
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	922127		
94	10.2	8.2	12.2	
80	10.3	8.9	13.3	

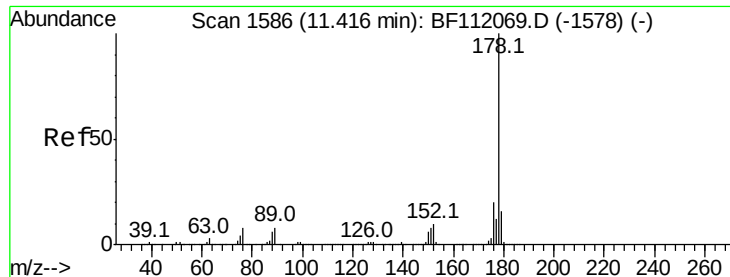
Abundance

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: 3.677 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

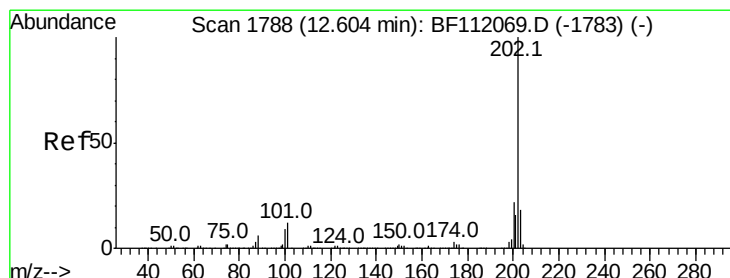
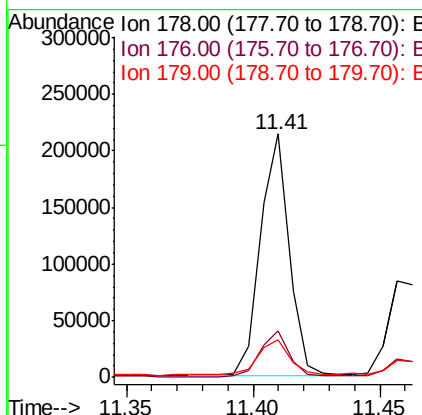
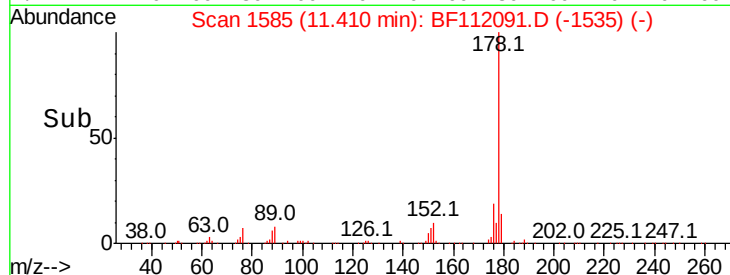
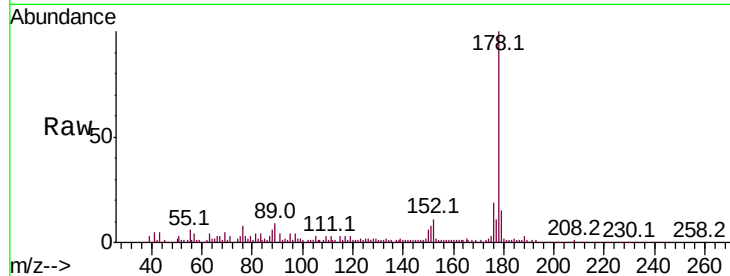
ClientSampleId :

CLOVER-YARD-A

Tot Ion:178	Resp:	170647
Ion Ratio	Lower	Upper
178	100	
176	18.9	16.3 24.5
179	15.5	13.0 19.4

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM



#75

Fluoranthene

Concen: 4.112 ng

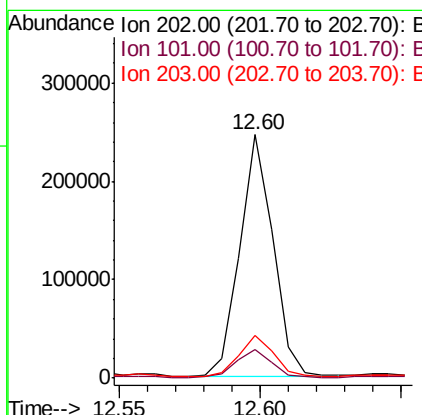
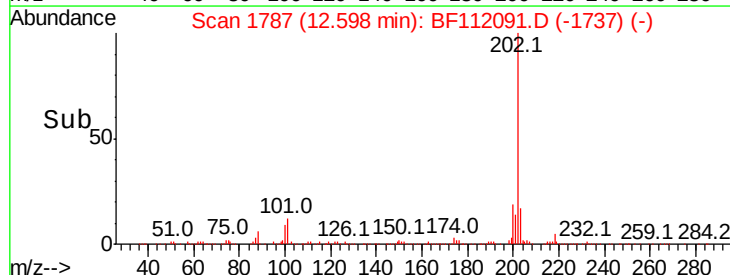
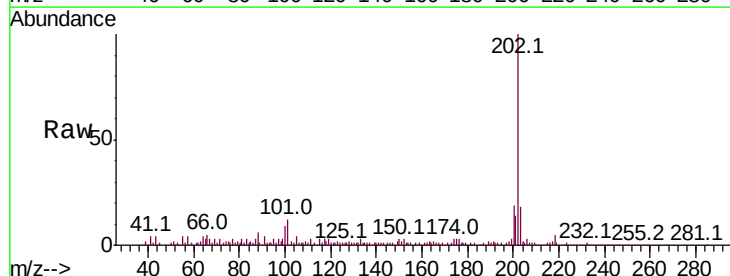
RT: 12.60 min Scan# 1787

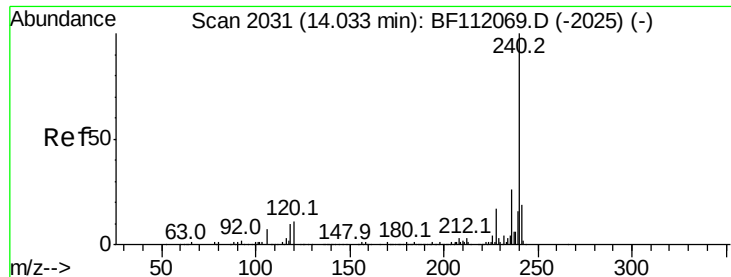
Delta R.T. -0.01 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Tgt Ion:202	Resp:	201461
Ion Ratio	Lower	Upper
202	100	
101	11.9	0.0 31.8
203	17.6	0.0 38.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

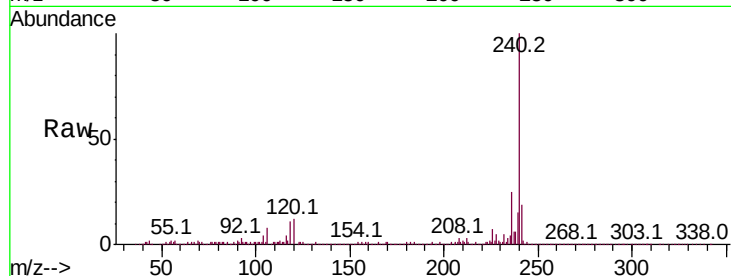
ClientSampleId :

CLOVER-YARD-A

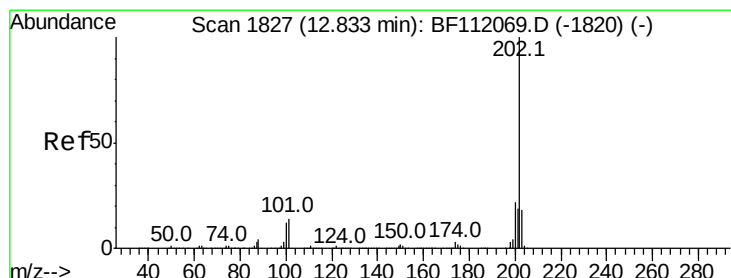
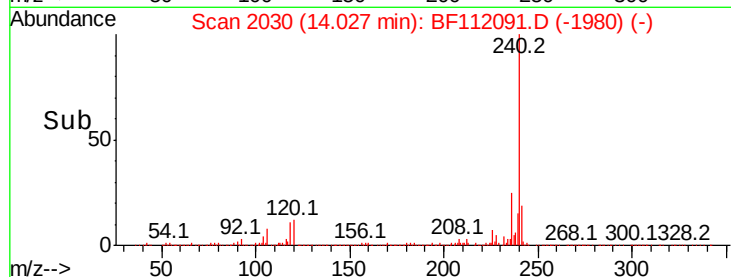
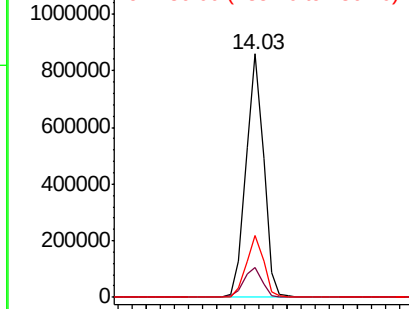
Tot Ion:	240	Resp:	748514
Ion Ratio	Lower	Upper	
240	100		
120	12.1	9.0	13.6
236	25.3	20.7	31.1

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM



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: 6.431 ng

RT: 12.83 min Scan# 1826

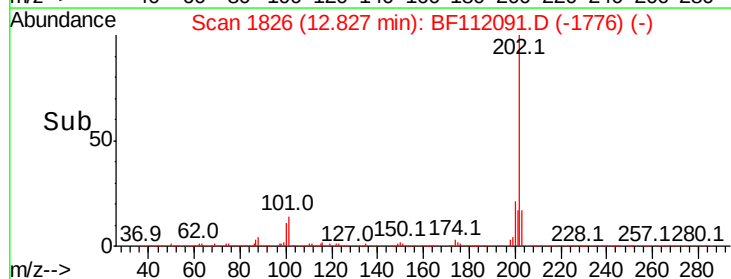
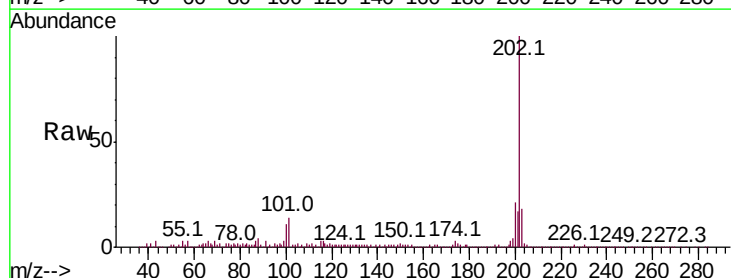
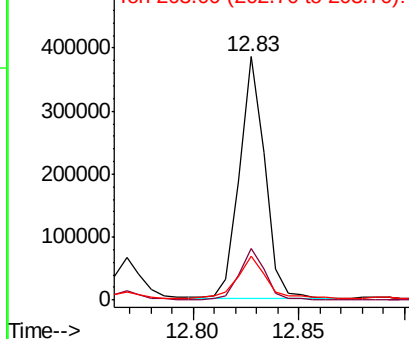
Delta R.T. -0.01 min

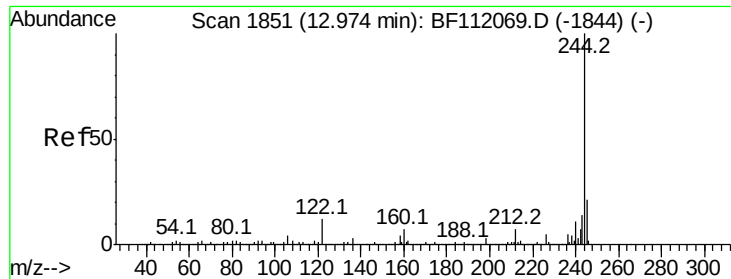
Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Tgt Ion:	202	Resp:	317585
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.7	26.5
203	17.9	14.6	22.0

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





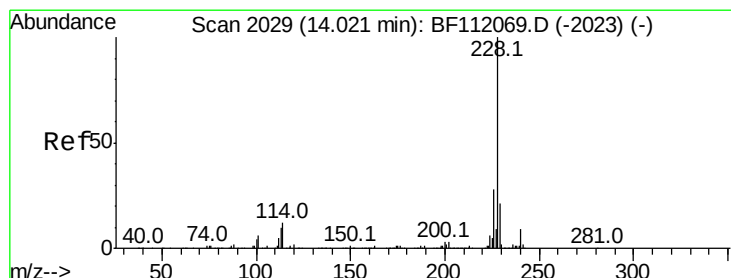
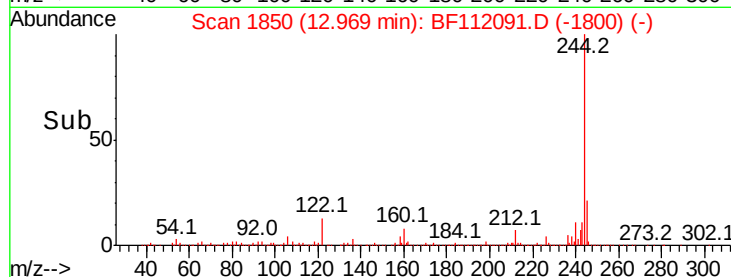
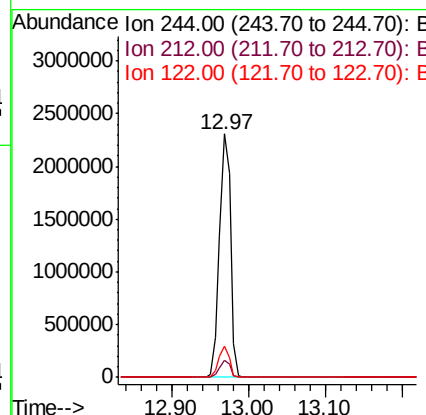
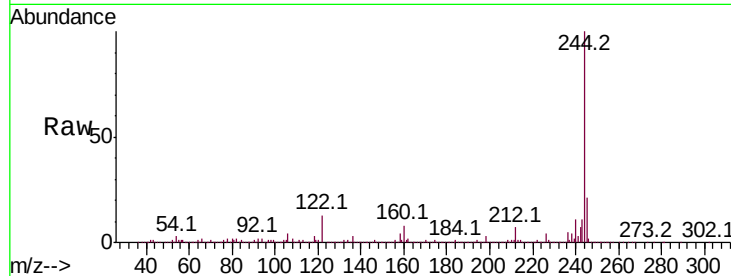
#79
 Terphenyl-d14
 Concen: 63.957 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BF112091.D
 Acq: 17 Jan 2019 16:05

Instrument :
 BNA_F
 ClientSampleId :
 CLOVER-YARD-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	12.8	9.8	14.6

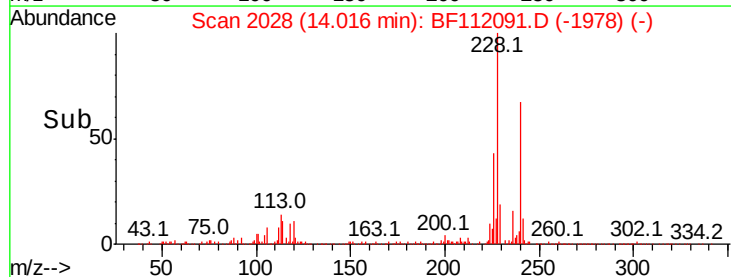
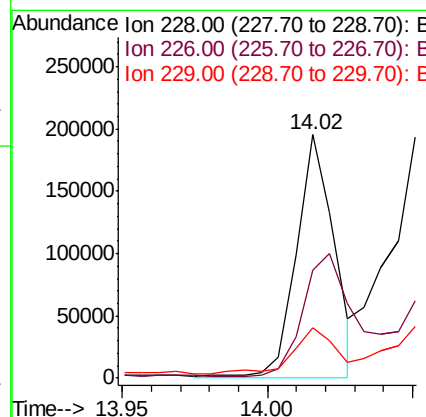
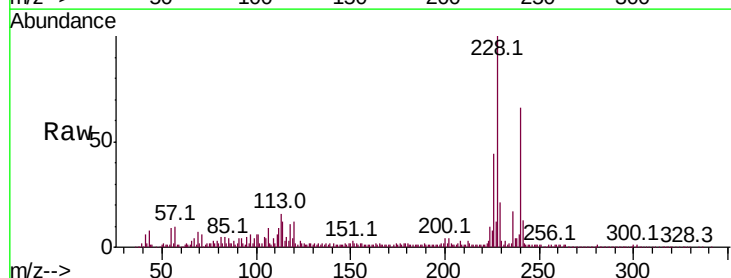
Manual Integrations
 APPROVED

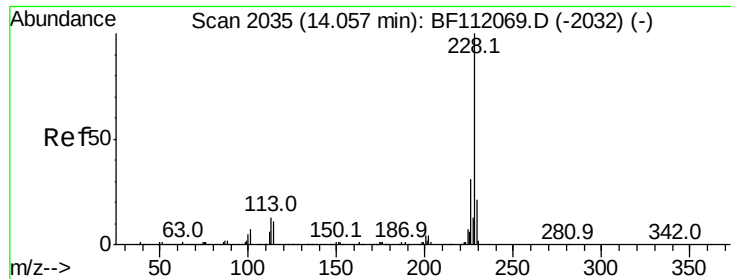
Sohil
 1/18/2019 11:45:50 AM



#81
 Benzo(a)anthracene
 Concen: 4.081 ng m
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BF112091.D
 Acq: 17 Jan 2019 16:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.1	22.6	34.0#
229	20.8	16.5	24.7





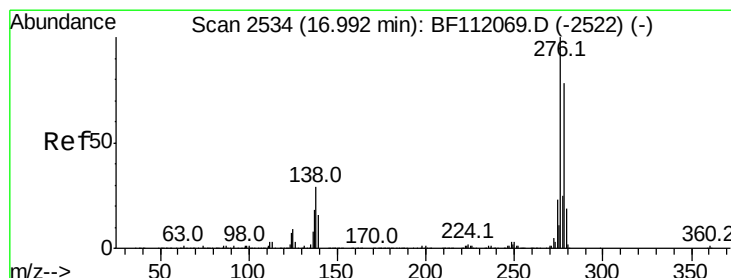
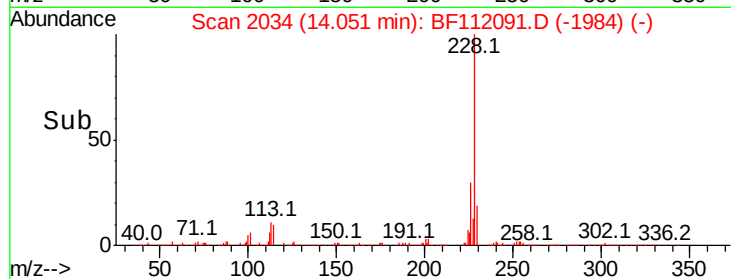
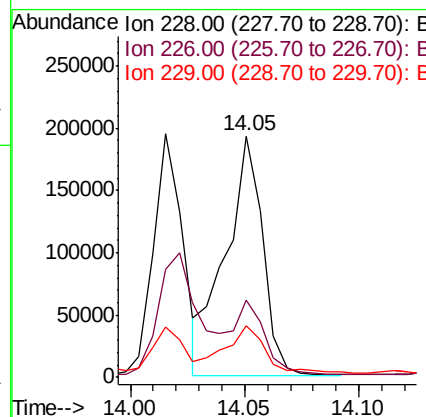
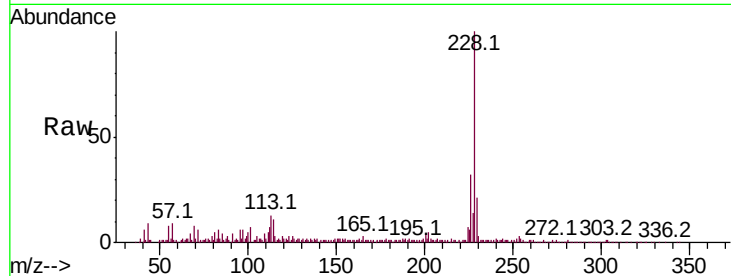
#83
Chrysene
Concen: 5.400 ng/ml
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampleID :
CLOVER-YARD-A

Tot Ion:228	Resp:	219304
Ion Ratio	Lower	Upper
228	100	
226	31.8	25.0 37.6
229	21.3	16.6 24.8

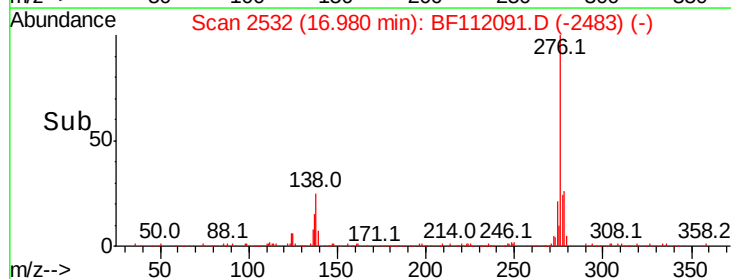
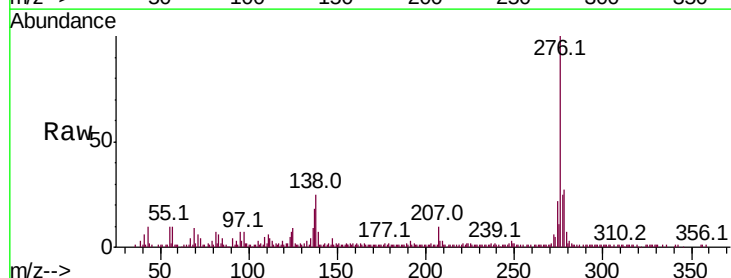
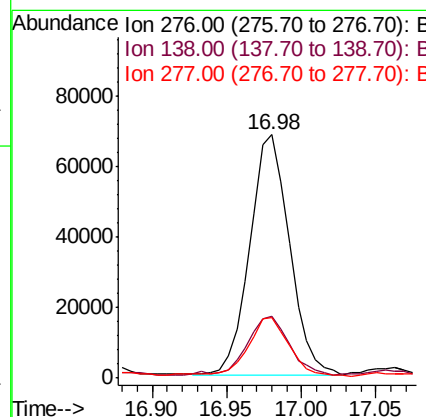
Manual Integrations
APPROVED

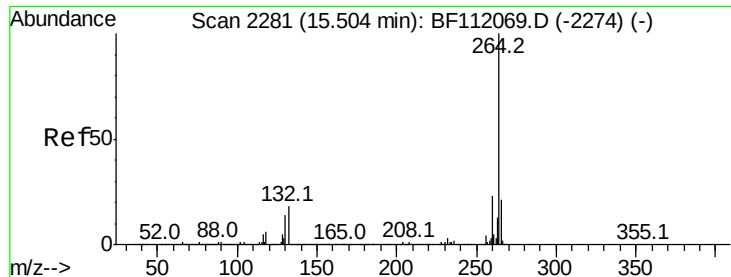
Sohil
1/18/2019 11:45:50 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.337 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Tgt Ion:276	Resp:	125024
Ion Ratio	Lower	Upper
276	100	
138	25.8	22.6 34.0
277	24.4	20.3 30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2281

Delta R.T. 0.00 min

Lab File: BF112091.D

Acq: 17 Jan 2019 16:05

Instrument :

BNA_F

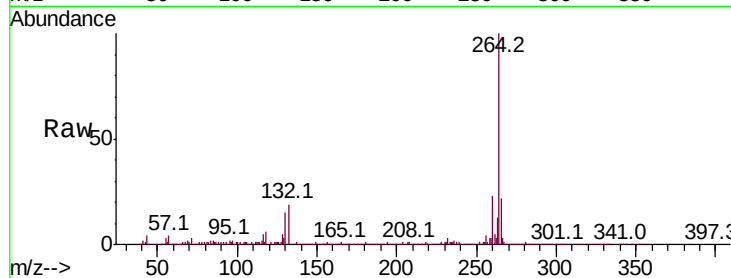
ClientSampled :

CLOVER-YARD-A

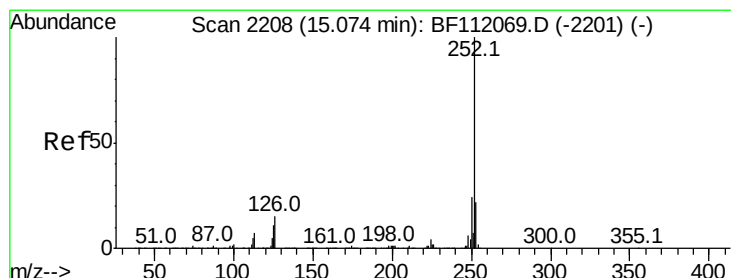
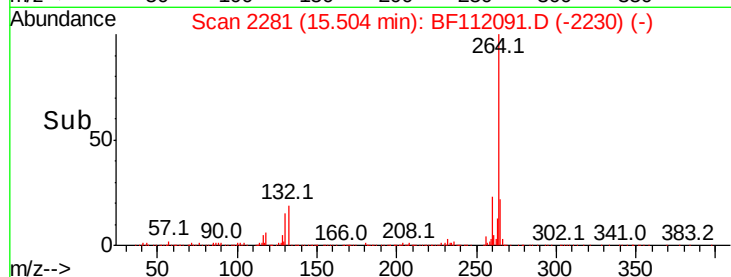
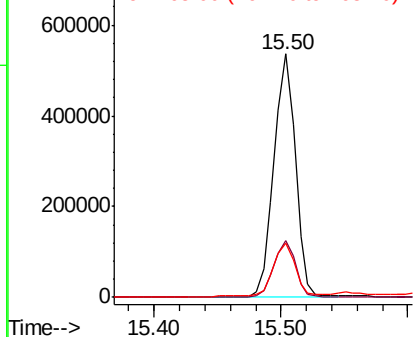
Tot Ion:	264	Resp:	634874
Ion Ratio	Lower	Upper	
264	100		
260	23.1	18.2	27.2
265	22.2	17.0	25.4

Manual Integrations
APPROVED

Sohil
1/18/2019 11:45:50 AM



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: 8.883 ng m

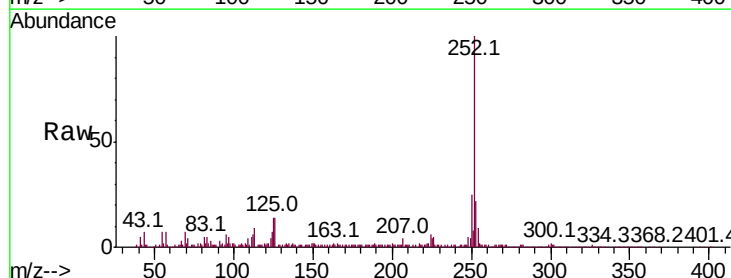
RT: 15.07 min Scan# 2208

Delta R.T. 0.00 min

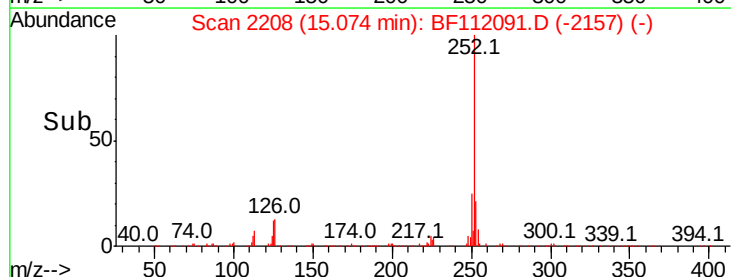
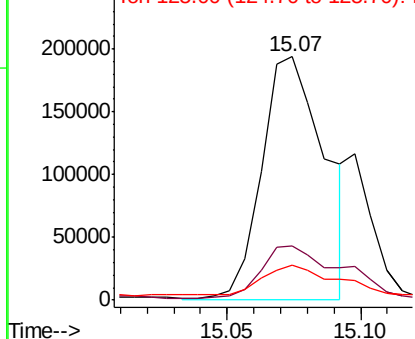
Lab File: BF112091.D

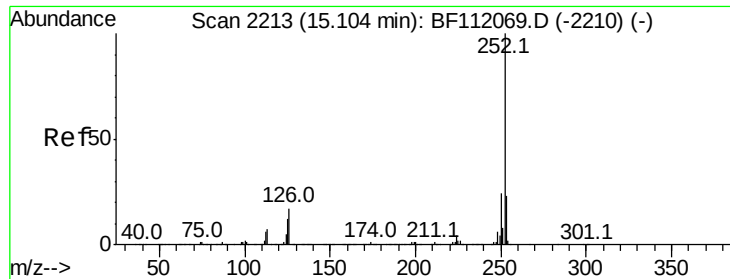
Acq: 17 Jan 2019 16:05

Tgt Ion:	252	Resp:	320123
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.0	27.0
125	14.2	8.7	13.1#



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





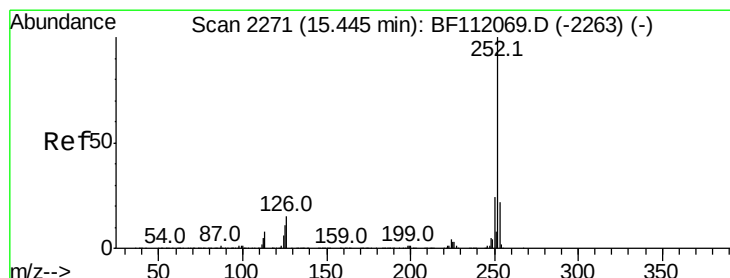
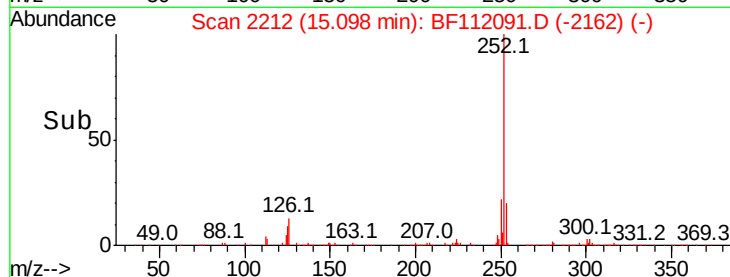
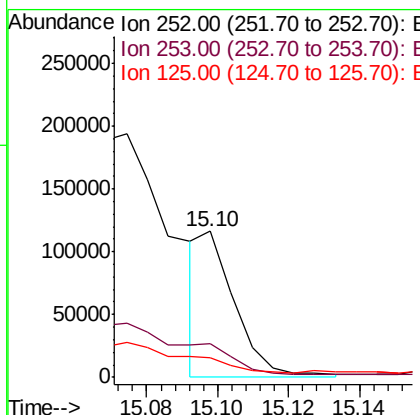
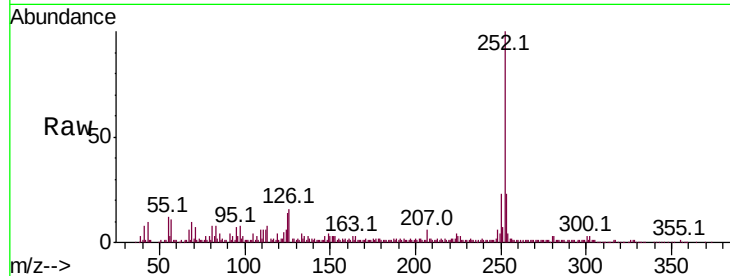
#89
Benzo(k)fluoranthene
Concen: 2.275 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Instrument :
BNA_F
ClientSampled :
CLOVER-YARD-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	13.6	9.1	13.7

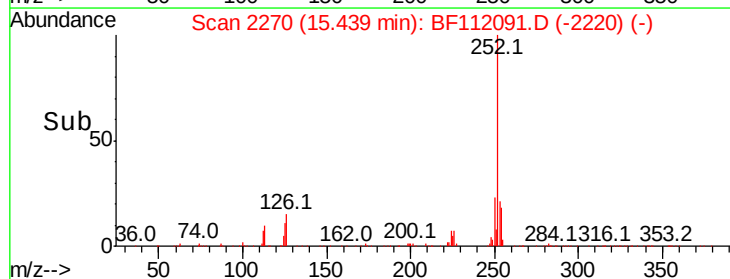
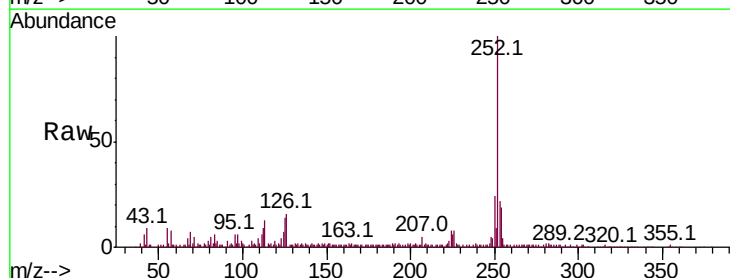
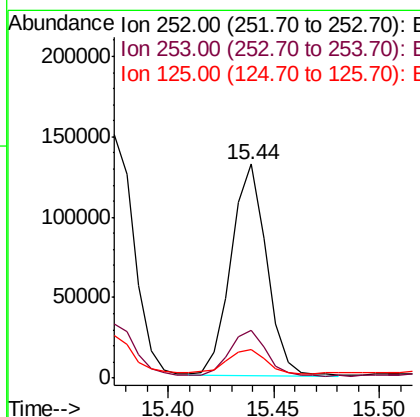
Manual Integrations
APPROVED

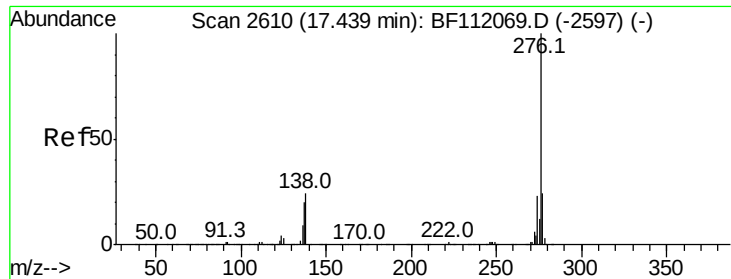
Sohil
1/18/2019 11:45:50 AM



#90
Benzo(a)pyrene
Concen: 4.637 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF112091.D
Acq: 17 Jan 2019 16:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	13.6	9.0	13.4#





#92
 Benzo(a,h,i)perylene
 Concen: 3.873 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. -0.01 min
 Lab File: BF112091.D
 Acq: 17 Jan 2019 16:05

Instrument :
 BNA_F
 ClientSampleId :
 CLOVER-YARD-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.4	29.0
138	26.4	19.1	28.7

Manual Integrations
 APPROVED

Sohil
 1/18/2019 11:45:50 AM

