

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
 Data File : BF110822.D
 Acq On : 16 Nov 2018 17:46
 Operator : JU/SJ
 Sample : J5952-05 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VTW-03(4-6)

Manual Integrations
 APPROVED

Sohil
 11/19/2018 11:55:55 AM

Quant Time: Nov 16 23:41:21 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	59921	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	253880	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	114466	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	179721	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	142792	20.00	ng	-0.01
87) Perylene-d12	15.66	264	112212	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	78052	21.16	ng	0.00
7) Phenol-d6	6.56	99	101025	21.42	ng	-0.01
23) Nitrobenzene-d5	7.50	82	62930	14.27	ng	-0.01
42) 2,4,6-Tribromophenol	10.77	330	19177	16.63	ng	-0.01
45) 2-Fluorobiphenyl	9.29	172	100391	12.53	ng	-0.01
79) Terphenyl-d14	13.06	244	67007	8.79	ng	-0.01
Target Compounds						
31) Naphthalene	8.25	128	165673	13.901	ng	Qvalue 100
37) 2-Methylnaphthalene	8.94	142	61488	7.870	ng	99
38) 1-Methylnaphthalene	9.03	142	48725m	6.485	ng	
49) Acenaphthylene	9.85	152	79827	7.205	ng	99
50) Dimethylphthalate	9.69	163	17615	2.062	ng	96
58) Fluorene	10.53	166	55463	7.049	ng	100
71) Phenanthrene	11.50	178	350163	36.367	ng	99
72) Anthracene	11.55	178	95457	9.828	ng	99
75) Fluoranthene	12.70	202	253769	26.288	ng	97
78) Pyrene	12.93	202	315968	28.738	ng	98
81) Benzo(a)anthracene	14.12	228	156632	18.352	ng	98
83) Chrysene	14.16	228	153344	18.859	ng	98
86) Indeno(1,2,3-cd)pyrene	17.23	276	54038	9.261	ng	97
88) Benzo(b)fluoranthene	15.20	252	152438m	22.708	ng	
89) Benzo(k)fluoranthene	15.23	252	46145m	6.957	ng	
90) Benzo(a)pyrene	15.59	252	112765	18.489	ng	99
91) Dibenzo(a,h)anthracene	17.23	278	15122m	2.930	ng	
92) Benzo(g,h,i)perylene	17.71	276	54875	10.716	ng	# 95

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

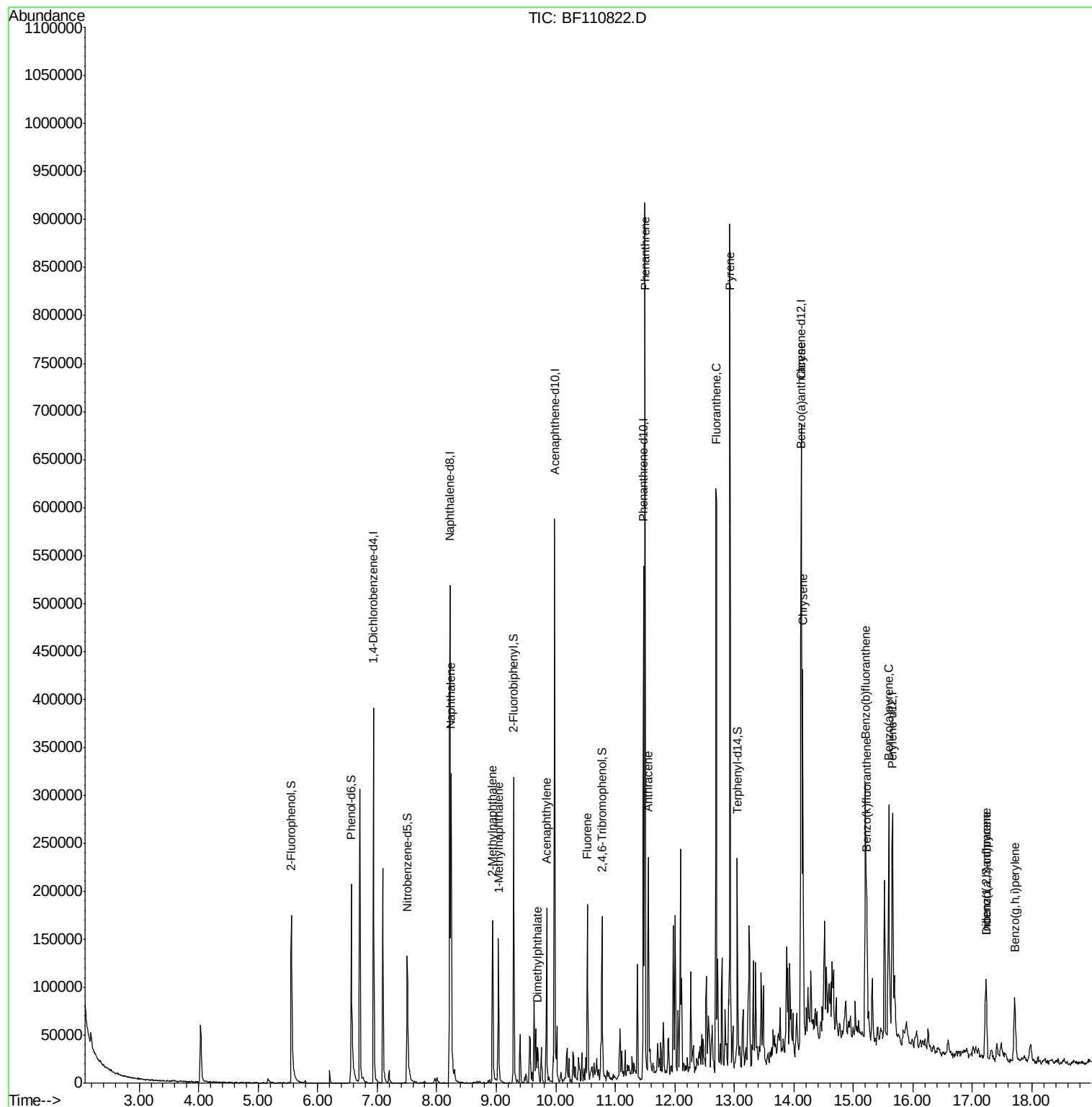
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110822.D
Acq On : 16 Nov 2018 17:46
Operator : JU/SJ
Sample : J5952-05 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

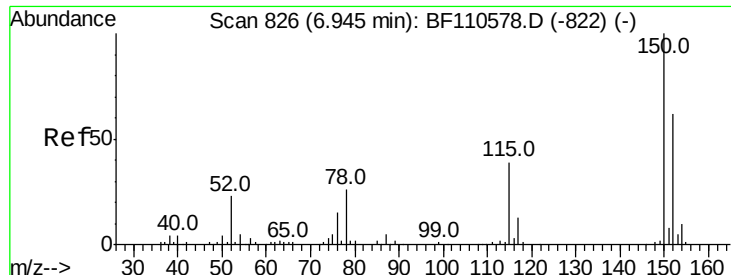
Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM

Quant Time: Nov 16 23:41:21 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 13 12:43:10 2018
Response via : Initial Calibration





#1

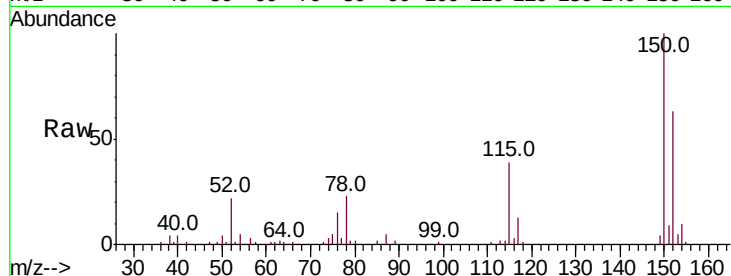
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	122.7	184.1
115	61.1	49.1	73.7

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM

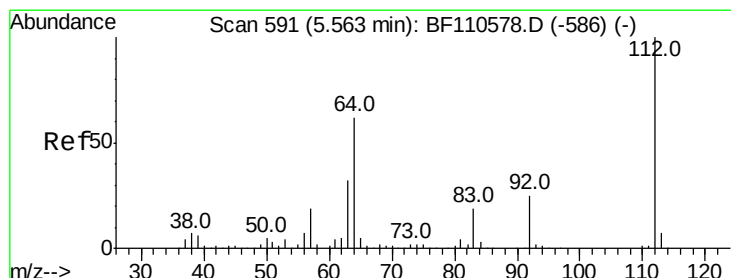
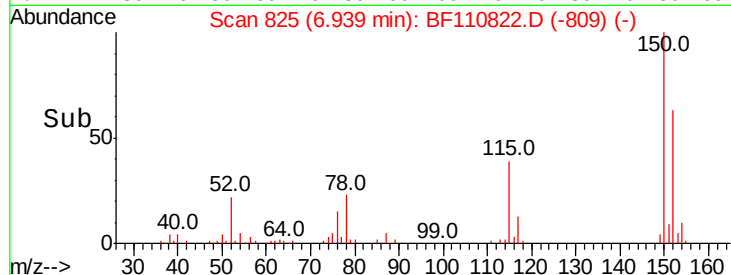
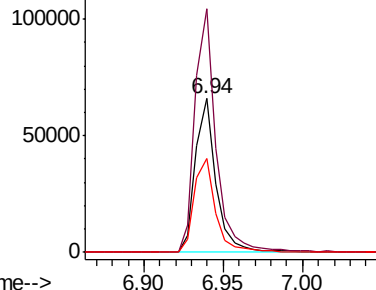


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

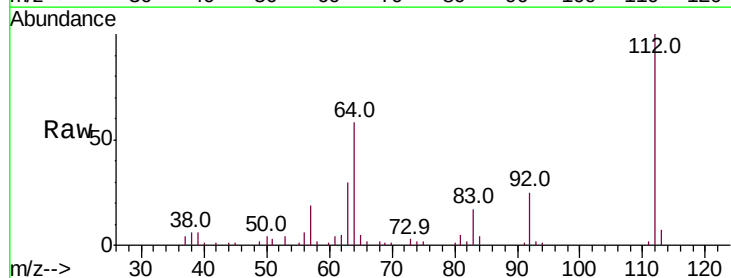
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.158 ng
RT: 5.56 min Scan# 590
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.2	44.1	66.1
63	30.4	23.7	35.5

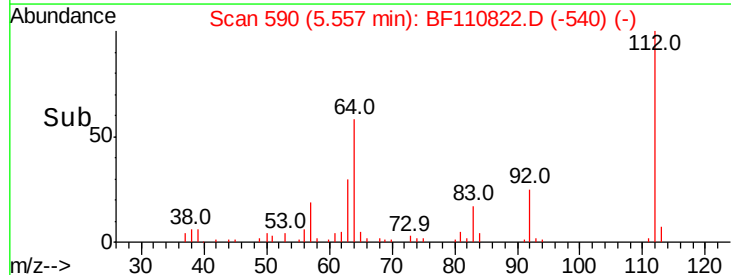
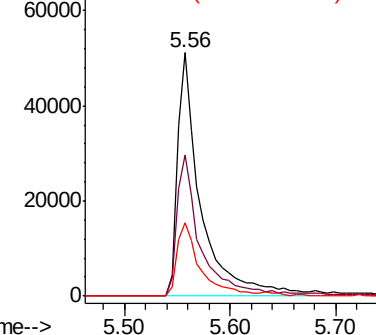


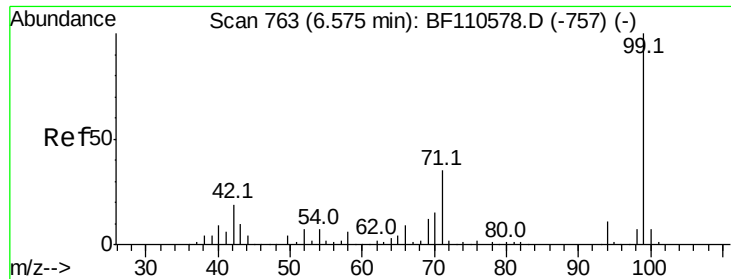
Abundance

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





#7

Phenol-d6

Concen: 21.416 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Instrument :

BNA_F

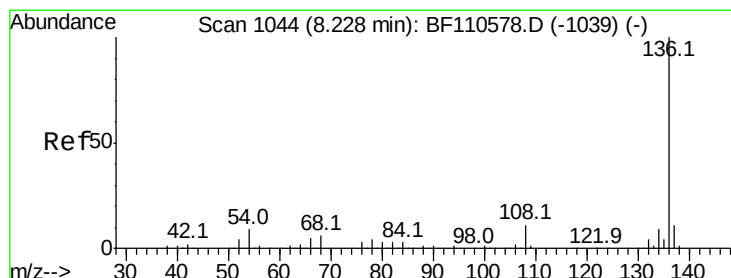
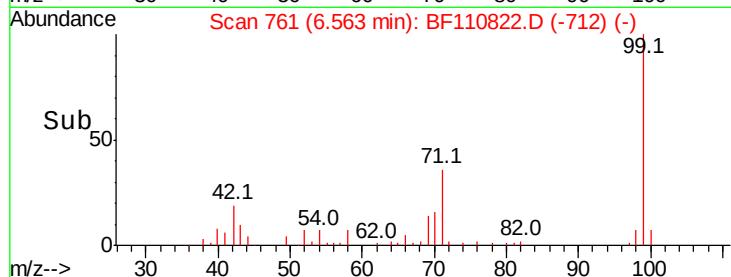
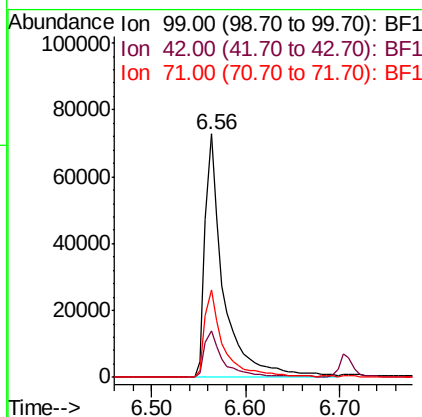
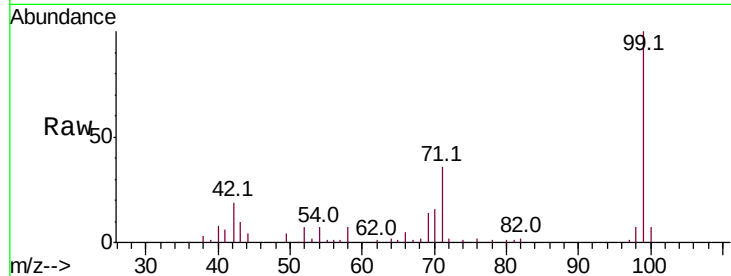
ClientSampled :

VTW-03(4-6)

Tot Ion:	99	Resp:	101025
Ion Ratio	Lower	Upper	
99	100		
42	19.3	15.8	23.6
71	35.8	28.0	42.0

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM



#21

Naphthalene-d8

Concen: 20.000 ng

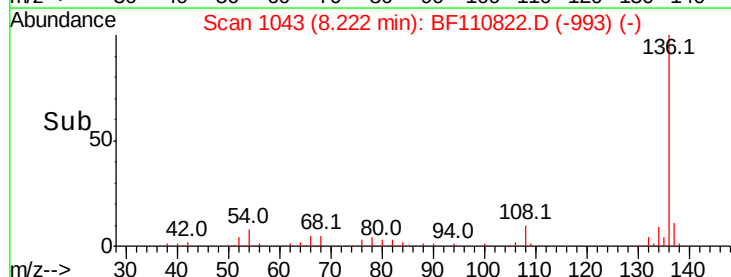
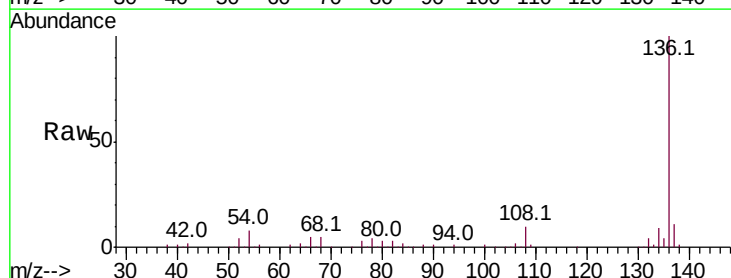
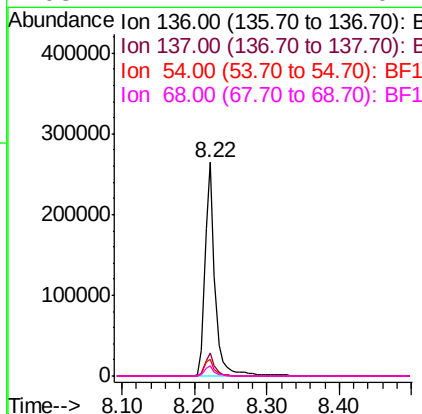
RT: 8.22 min Scan# 1043

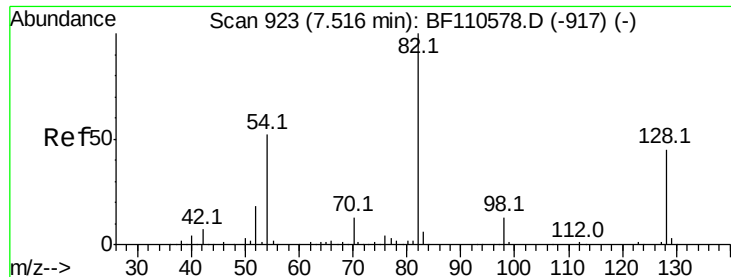
Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Tgt Ion:	136	Resp:	253880
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.8	13.2
54	7.7	5.4	8.2
68	4.7	4.2	6.2





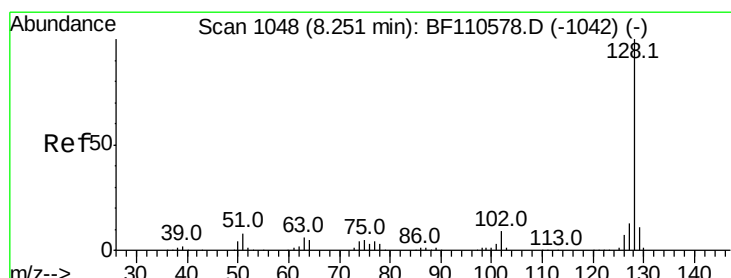
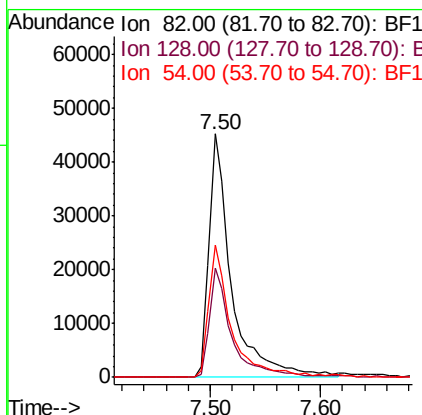
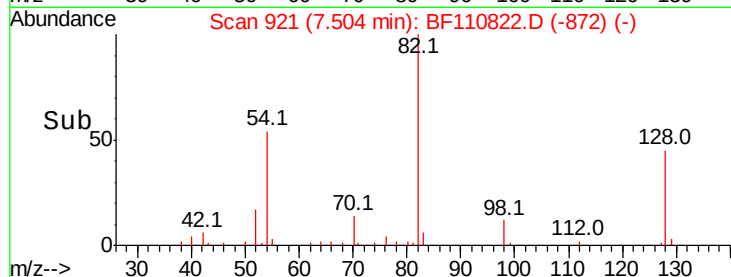
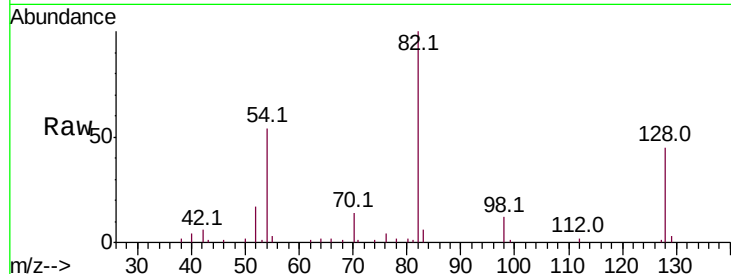
#23
 Nitrobenzene-d5
 Concen: 14.275 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Instrument :
 BNA_F
 ClientSampleId :
 VTW-03(4-6)

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.2	51.2
54	54.3	38.6	58.0

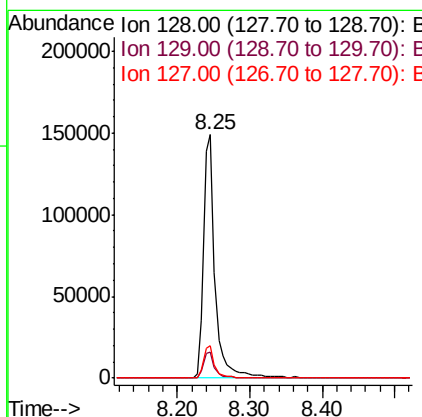
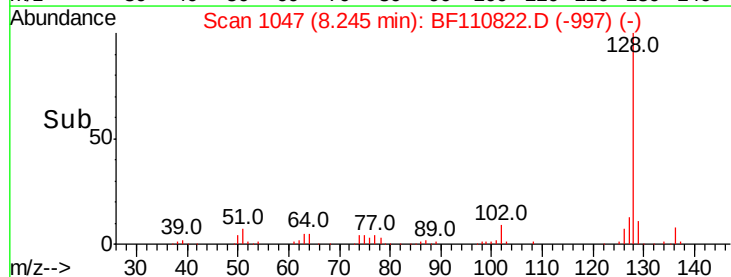
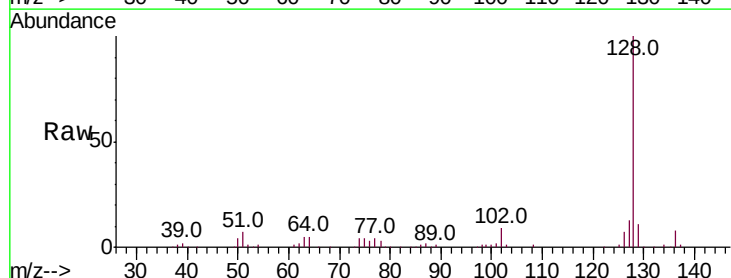
Manual Integrations
 APPROVED

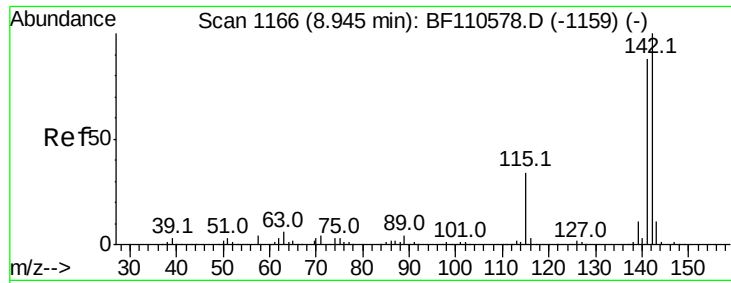
Sohil
 11/19/2018 11:55:55 AM



#31
 Naphthalene
 Concen: 13.901 ng
 RT: 8.25 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	13.4	10.8	16.2





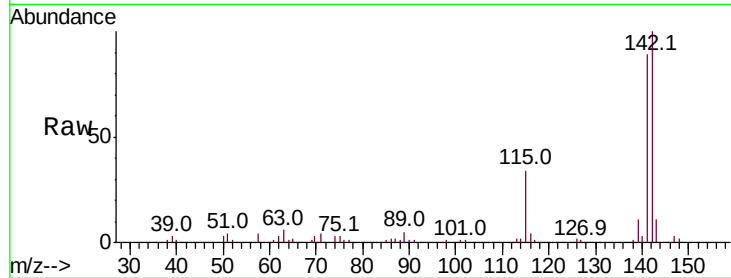
#37
2-Methylnaphthalene
Concen: 7.870 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.4	107.2
115	34.2	28.7	43.1

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM

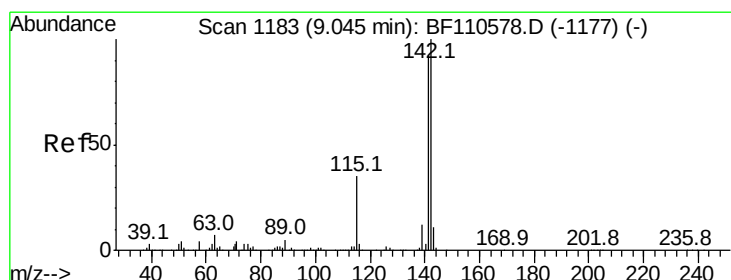
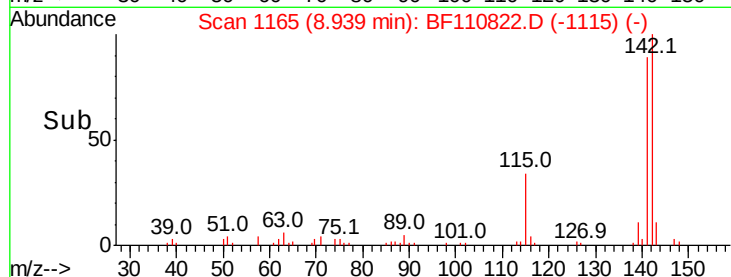
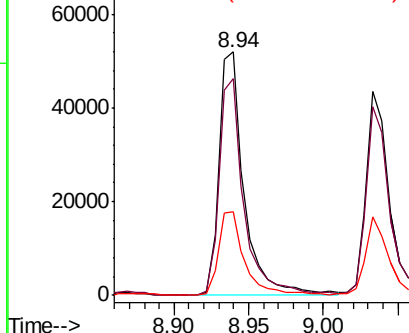


Abundance

Ion 142.00 (141.70 to 142.70): E

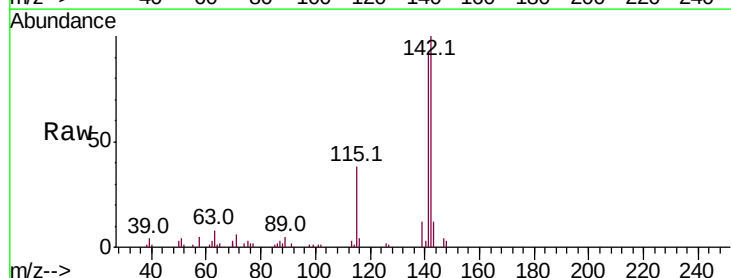
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 6.485 ng m
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	74.2	111.4
116	4.1	2.6	4.0#

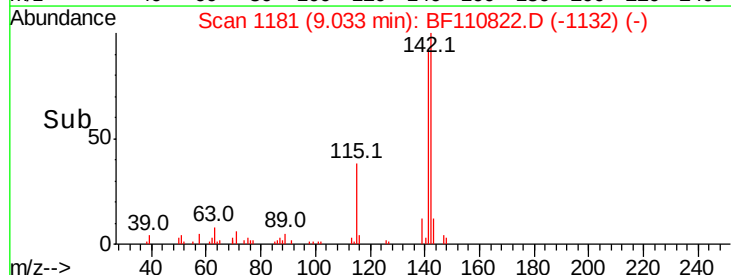
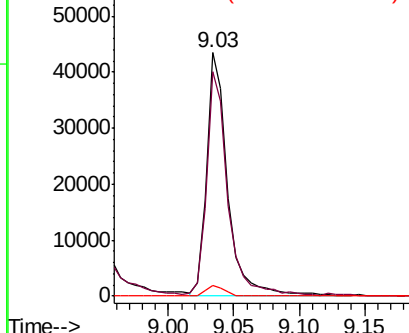


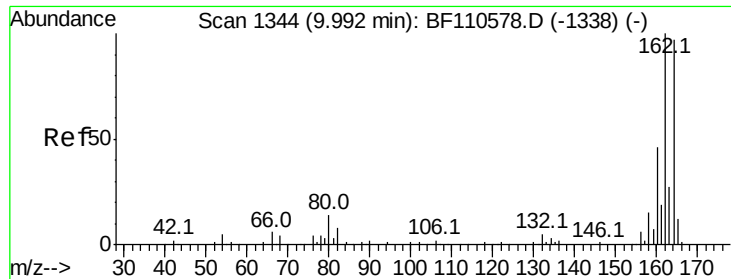
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





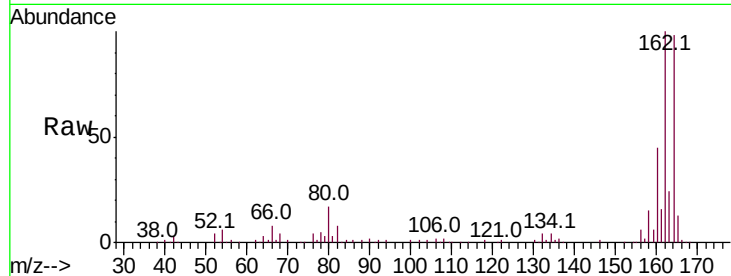
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

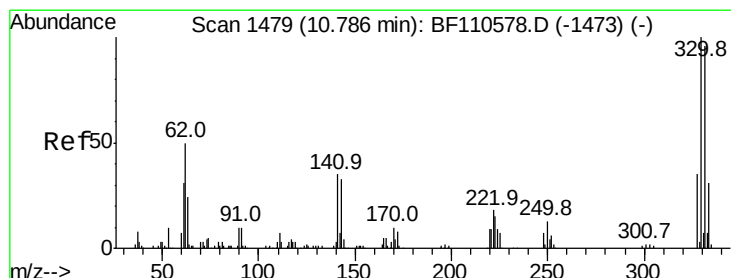
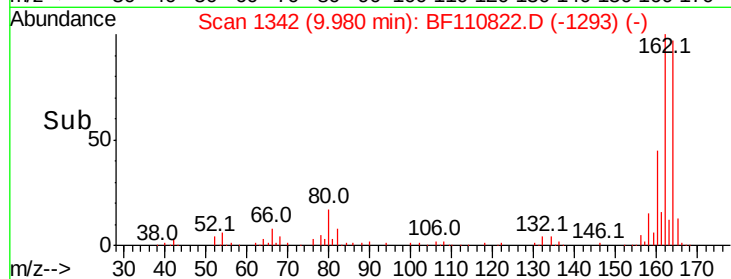
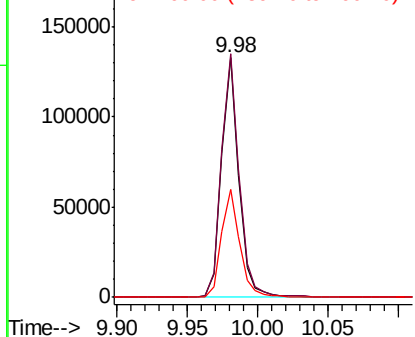
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.7	83.0	124.6	
160	45.3	37.0	55.6	

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM

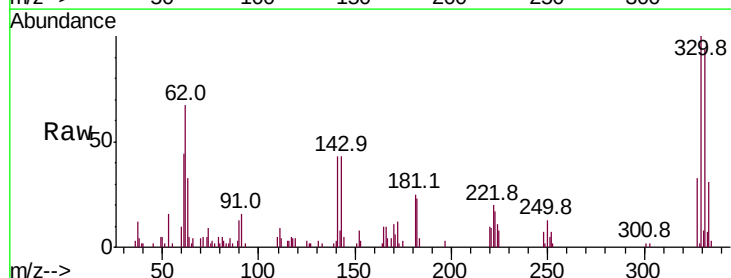


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

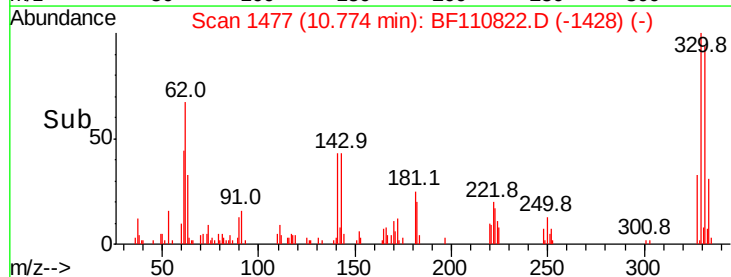
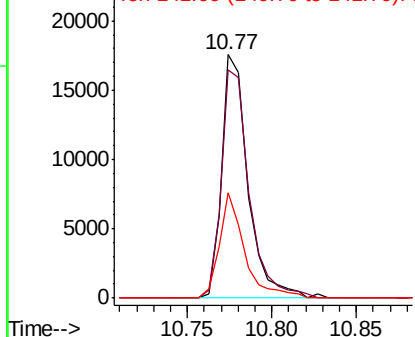


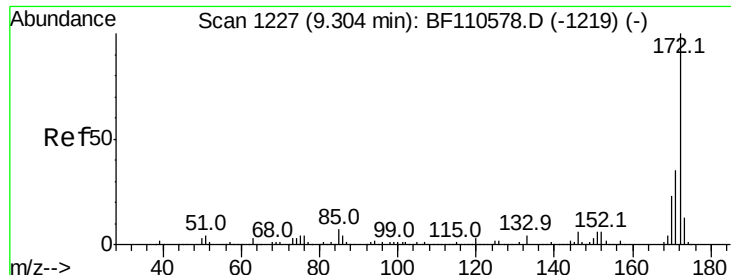
#42
2,4,6-Tribromophenol
Concen: 16.627 ng
RT: 10.77 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.6	77.1	115.7	
141	41.0	27.0	40.4#	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





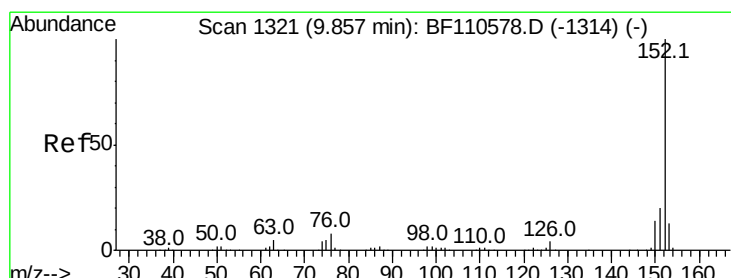
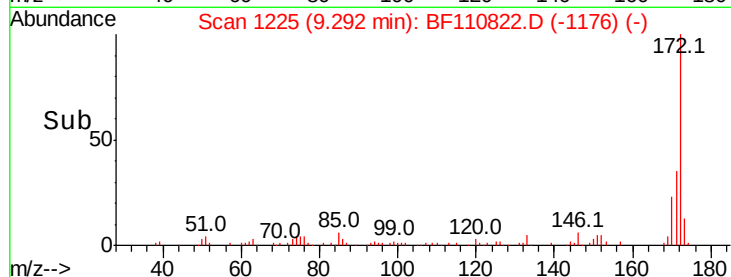
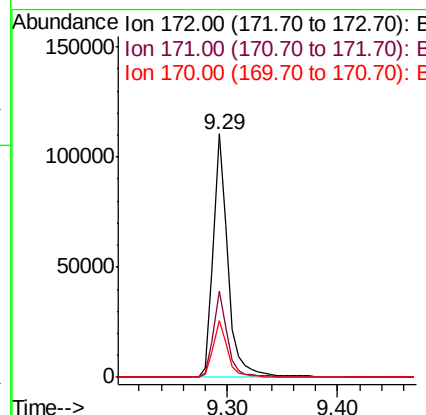
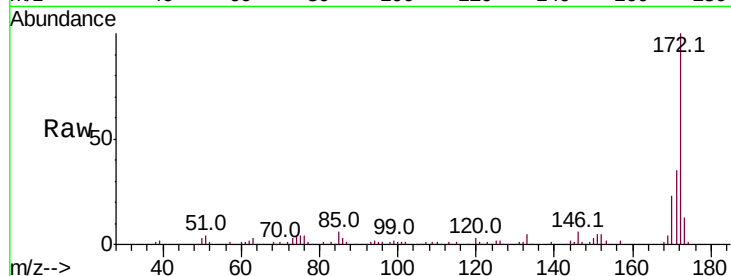
#45
2-Fluorobiphenyl
Concen: 12.526 ng
RT: 9.29 min Scan# 1225
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampled :
VTW-03(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	100391		
171	35.3		28.6	43.0
170	23.2		19.7	29.5

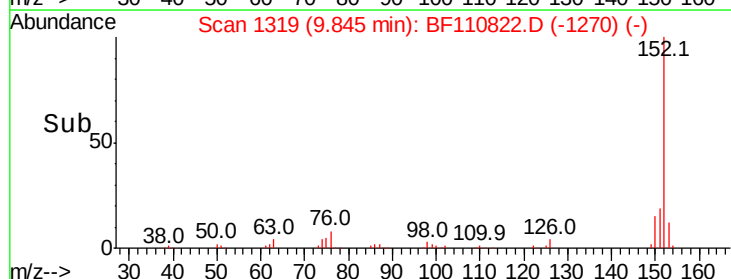
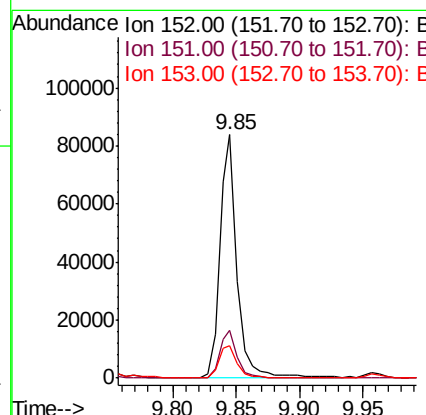
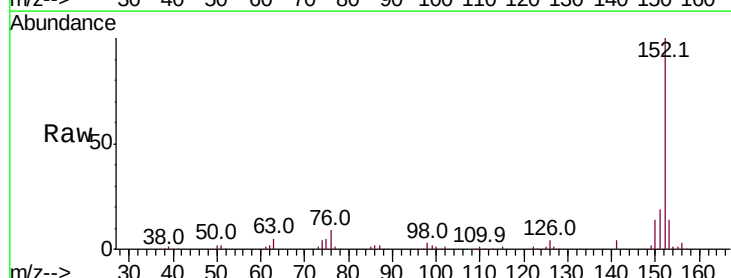
Manual Integrations
APPROVED

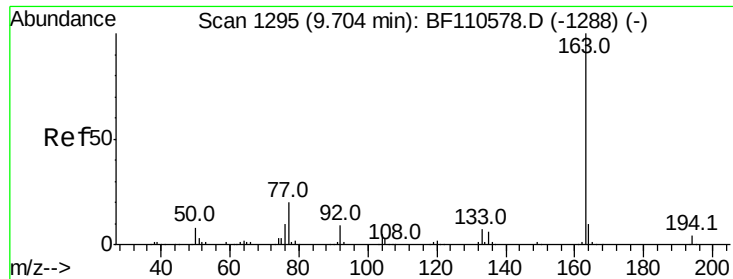
Sohil
11/19/2018 11:55:55 AM



#49
Acenaphthylene
Concen: 7.205 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	79827		
151	19.4		15.8	23.8
153	13.6		10.4	15.6





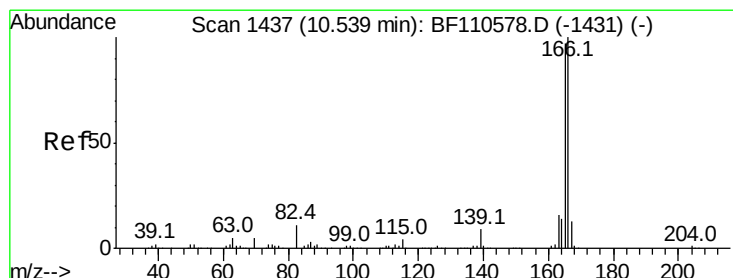
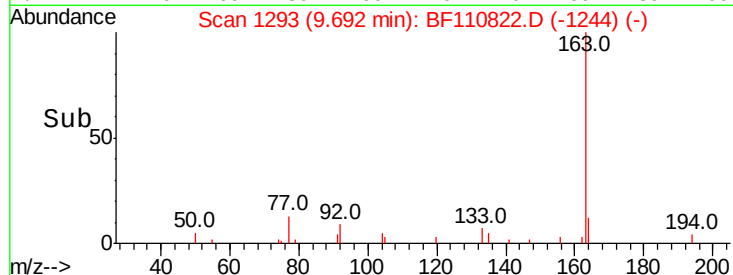
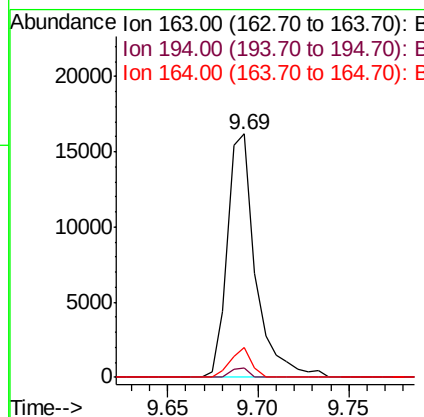
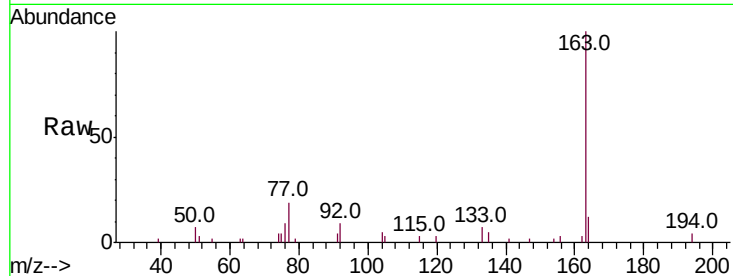
#50
Dimethylphthalate
Concen: 2.062 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampled :
VTW-03(4-6)

Tot Ion:	163	Resp:	17615
Ion Ratio	Lower	Upper	
163	100		
194	4.1	3.2	4.8
164	12.0	8.1	12.1

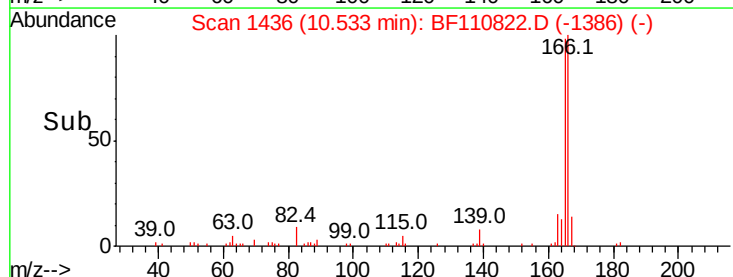
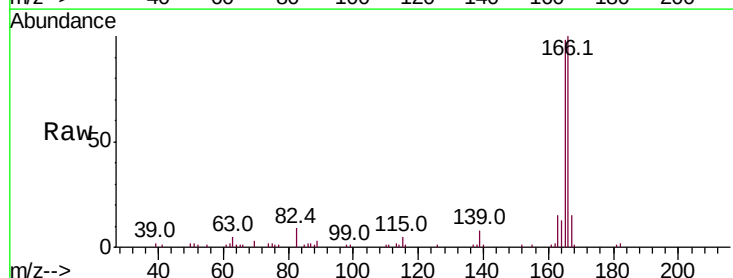
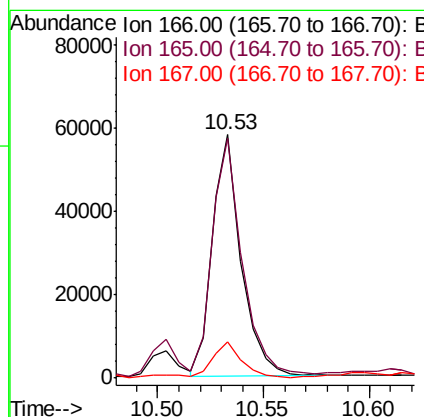
Manual Integrations
APPROVED

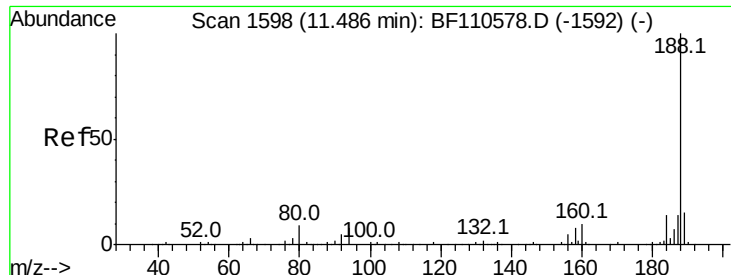
Sohil
11/19/2018 11:55:55 AM



#58
Fluorene
Concen: 7.049 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion:	166	Resp:	55463
Ion Ratio	Lower	Upper	
166	100		
165	98.3	78.6	117.8
167	14.9	10.8	16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Instrument :

BNA_F

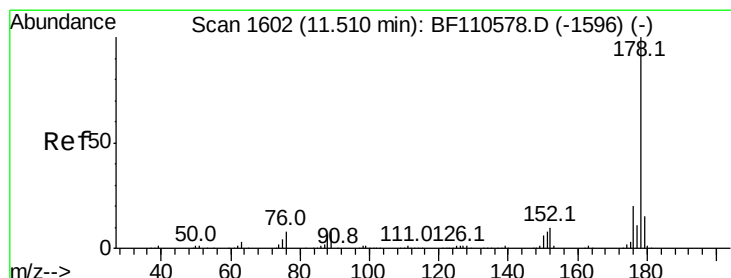
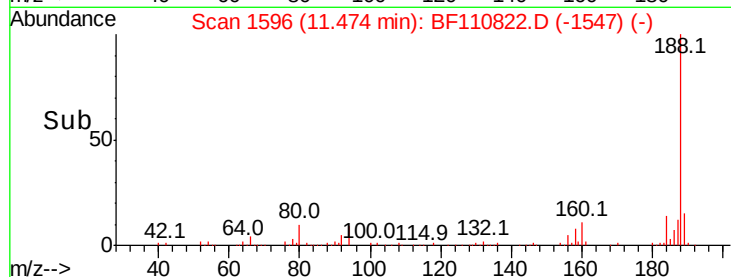
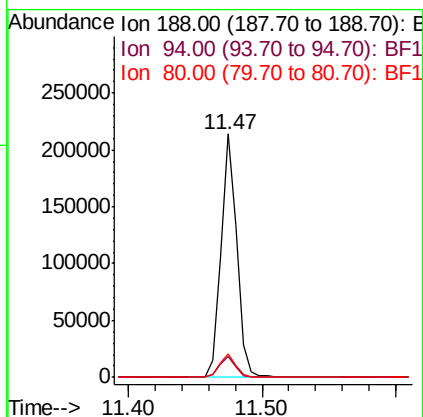
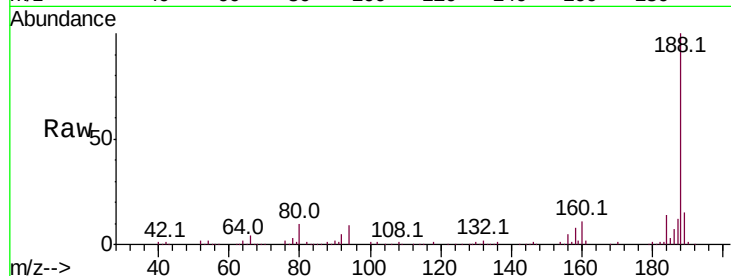
ClientSampleId :

VTW-03(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	179721		
94	8.7	7.2	10.8	
80	9.9	7.9	11.9	

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM



#71

Phenanthrene

Concen: 36.367 ng

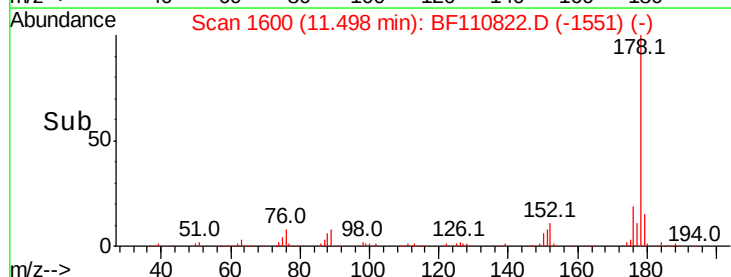
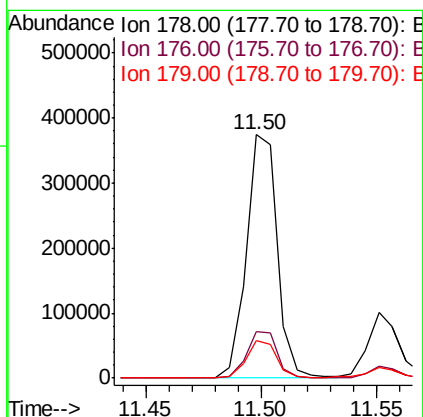
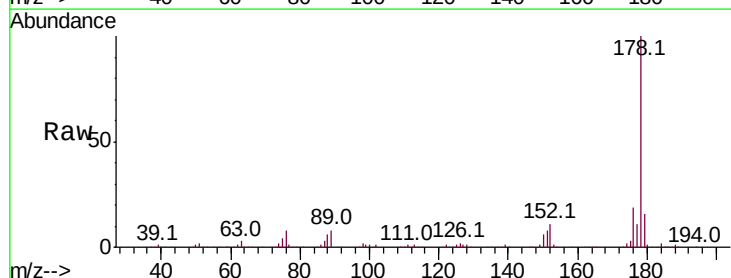
RT: 11.50 min Scan# 1600

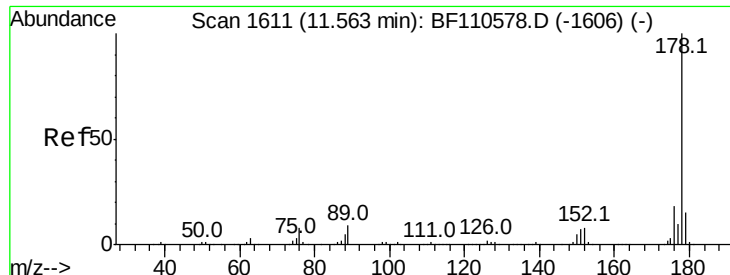
Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	350163		
176	19.0	15.5	23.3	
179	15.5	12.5	18.7	





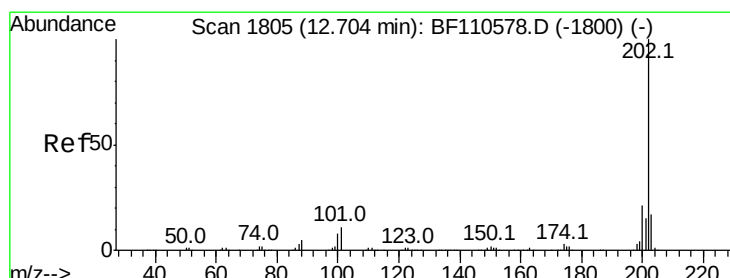
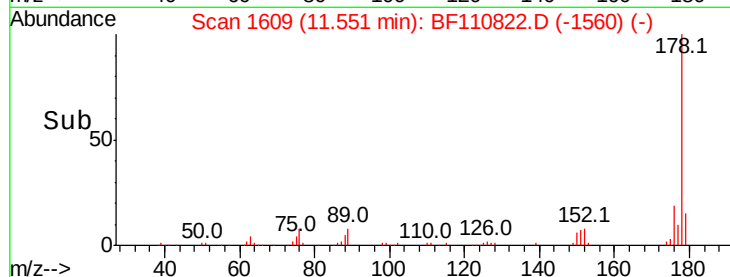
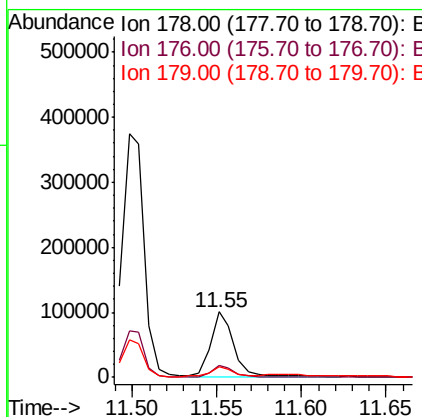
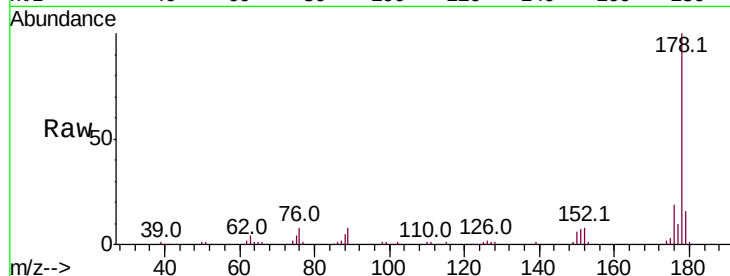
#72
 Anthracene
 Concen: 9.828 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Instrument :
 BNA_F
 ClientSampleId :
 VTW-03(4-6)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.7	12.6	18.8

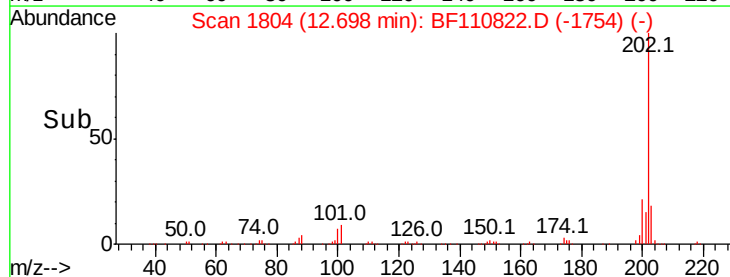
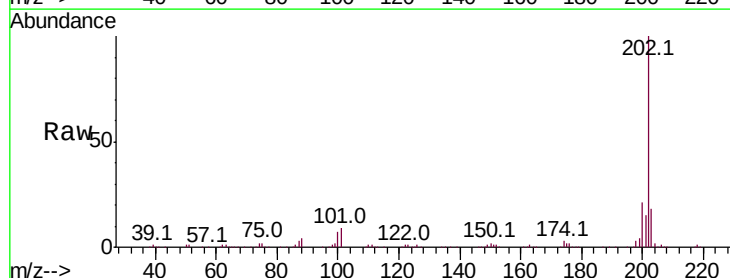
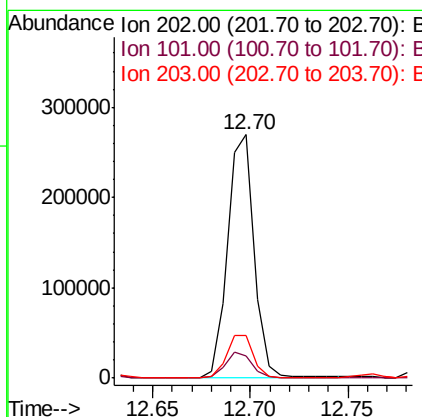
Manual Integrations
 APPROVED

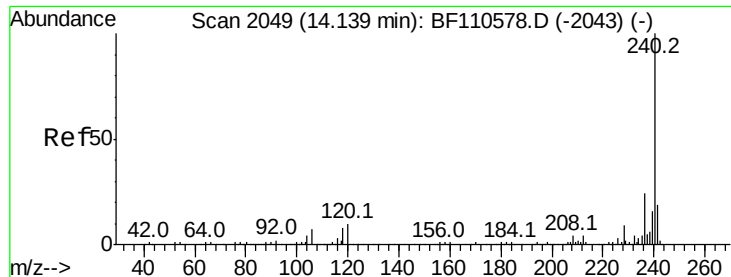
Sohil
 11/19/2018 11:55:55 AM



#75
 Fluoranthene
 Concen: 26.288 ng
 RT: 12.70 min Scan# 1804
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	31.4
203	17.6	0.0	37.7





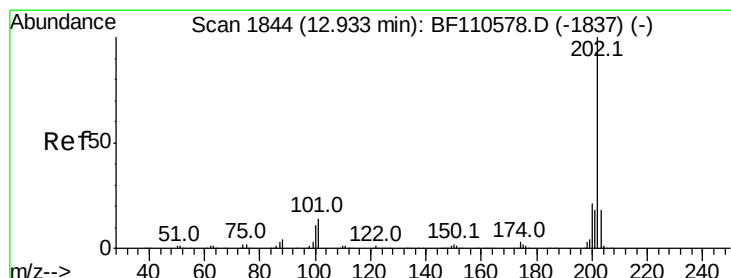
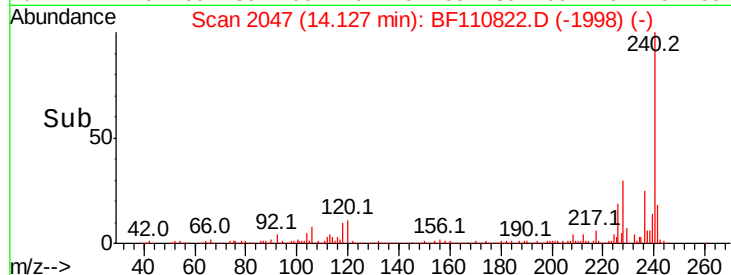
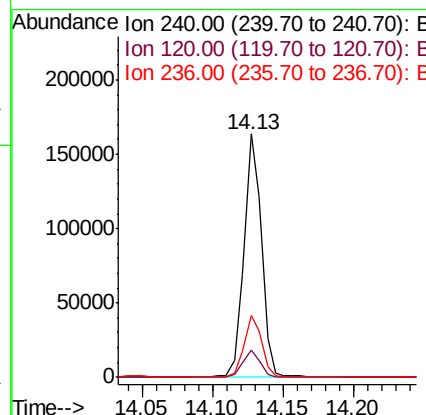
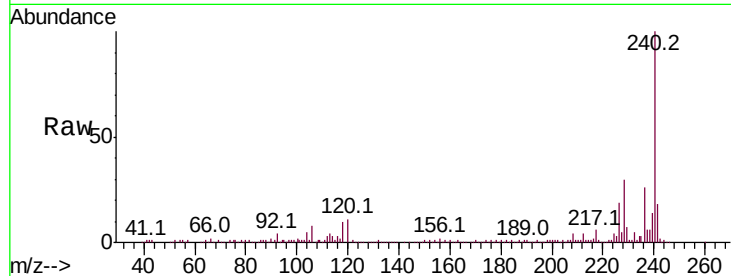
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.13 min Scan# 2047
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	142792		
120	11.2	8.3	12.5	
236	25.6	21.2	31.8	

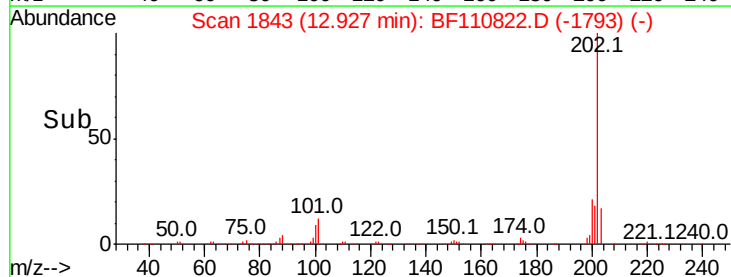
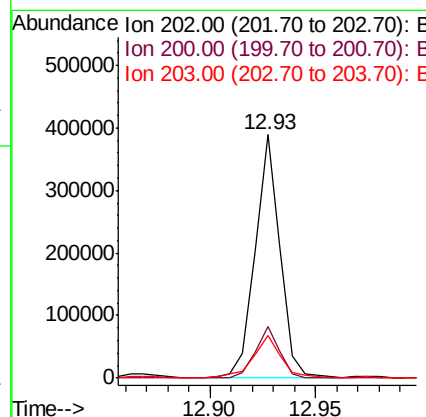
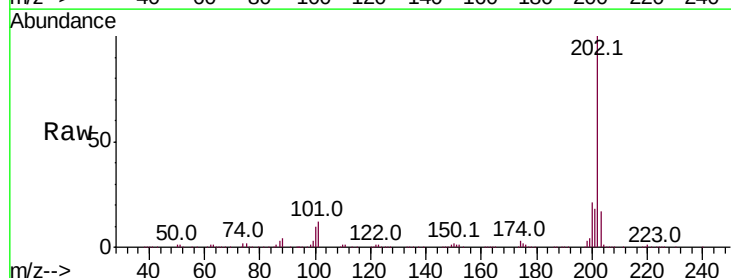
Manual Integrations
APPROVED

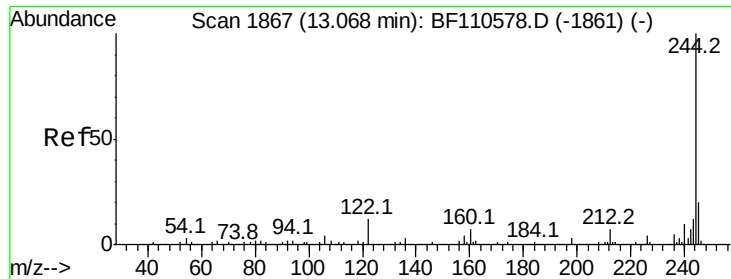
Sohil
11/19/2018 11:55:55 AM



#78
Pyrene
Concen: 28.738 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	315968		
200	21.1	17.8	26.6	
203	17.3	14.2	21.4	





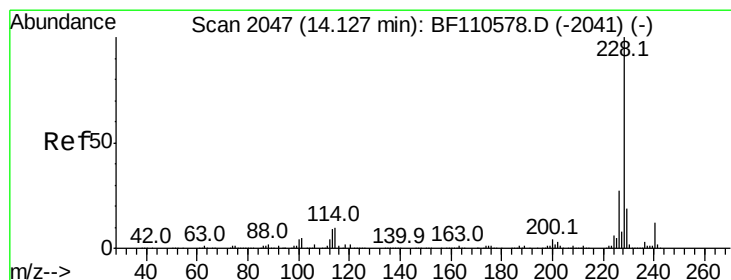
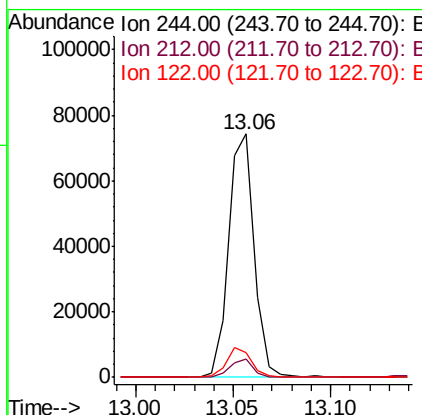
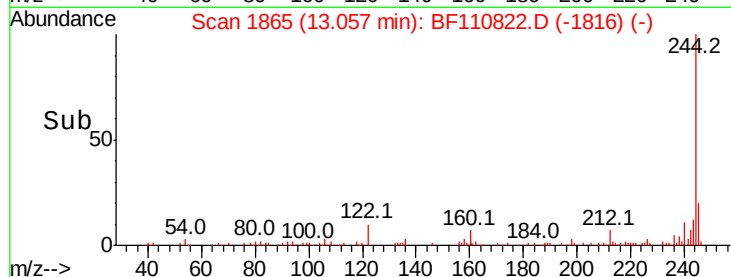
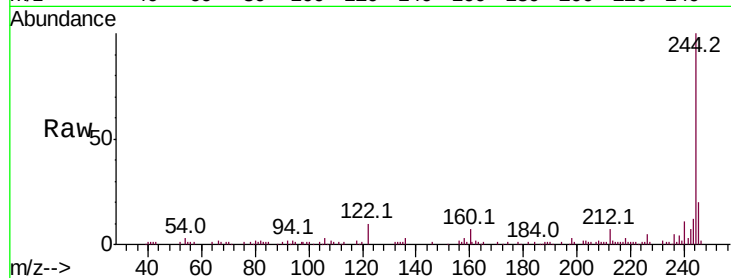
#79
 Terphenyl-d14
 Concen: 8.788 ng
 RT: 13.06 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Instrument :
 BNA_F
 ClientSampled :
 VTW-03(4-6)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.8
122	10.4	8.7	13.1

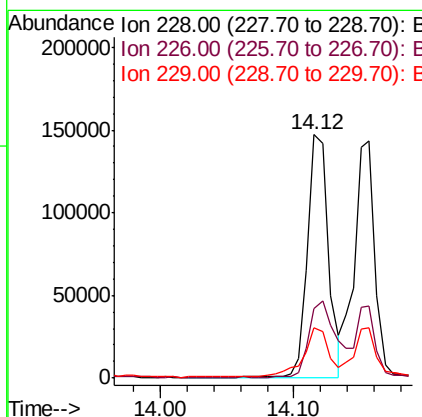
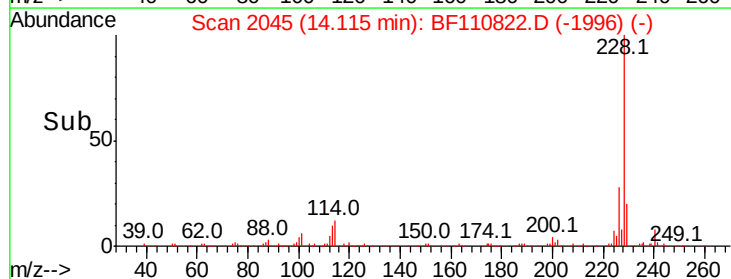
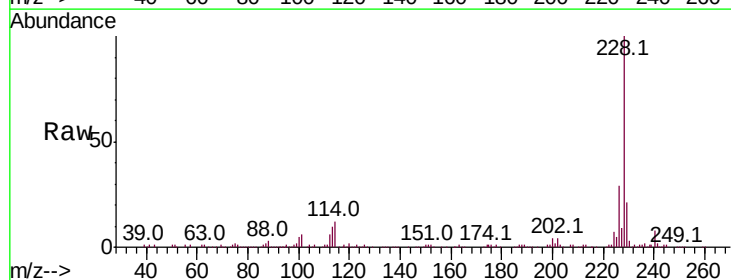
Manual Integrations
 APPROVED

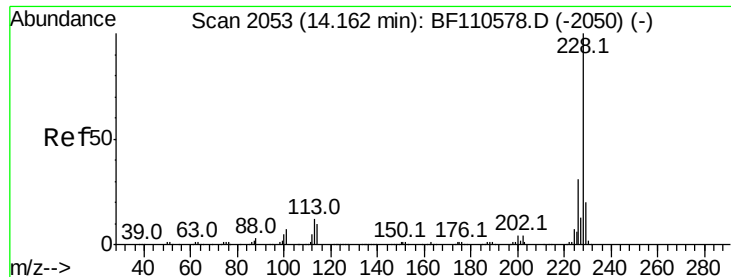
Sohil
 11/19/2018 11:55:55 AM



#81
 Benzo(a)anthracene
 Concen: 18.352 ng
 RT: 14.12 min Scan# 2045
 Delta R.T. -0.01 min
 Lab File: BF110822.D
 Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.1	33.1
229	20.8	15.6	23.4





#83

Chrysene

Concen: 18.859 ng

RT: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Instrument :

BNA_F

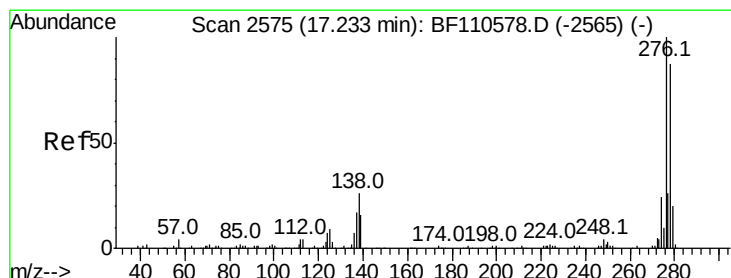
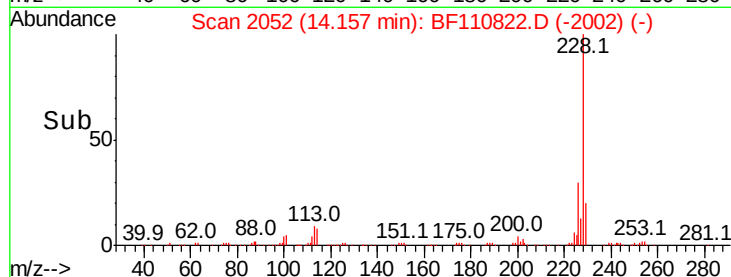
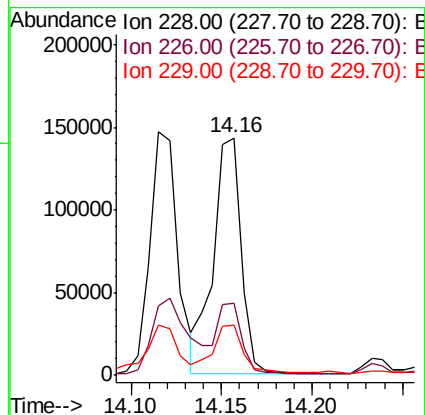
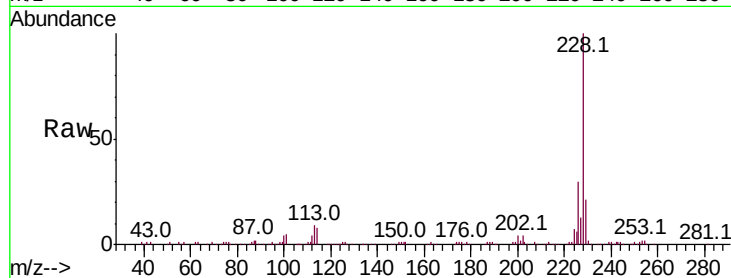
ClientSampled :

VTW-03(4-6)

Tot Ion:	228	Resp:	153344
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.7	37.1
229	21.2	15.9	23.9

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.261 ng

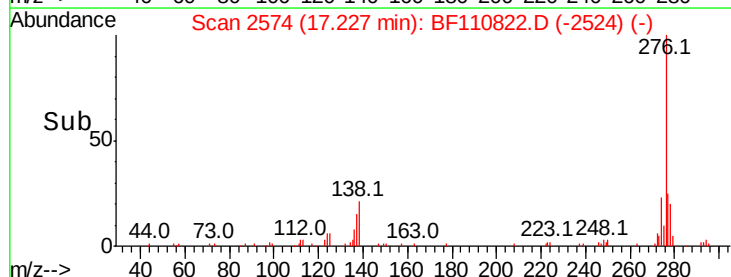
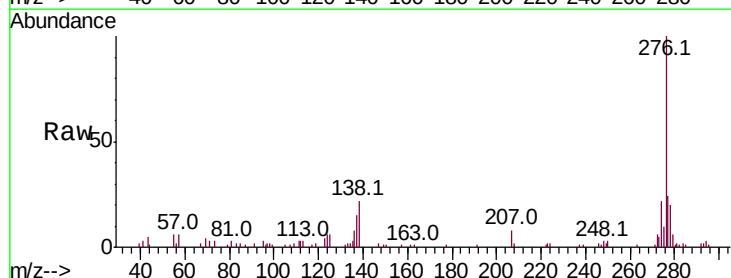
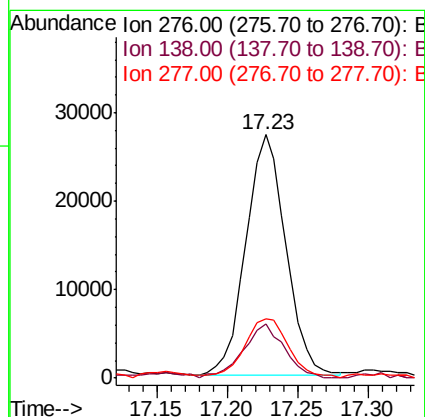
RT: 17.23 min Scan# 2574

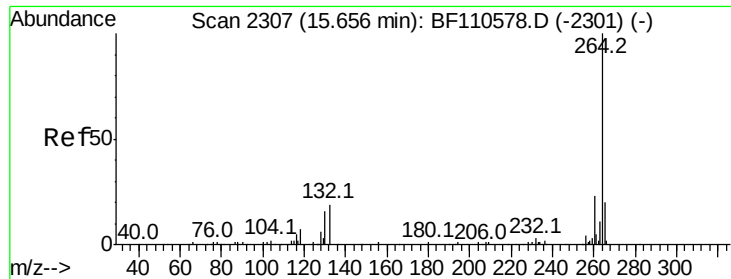
Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Tgt Ion:	276	Resp:	54038
Ion Ratio	Lower	Upper	
276	100		
138	23.0	18.5	27.7
277	27.5	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Instrument :

BNA_F

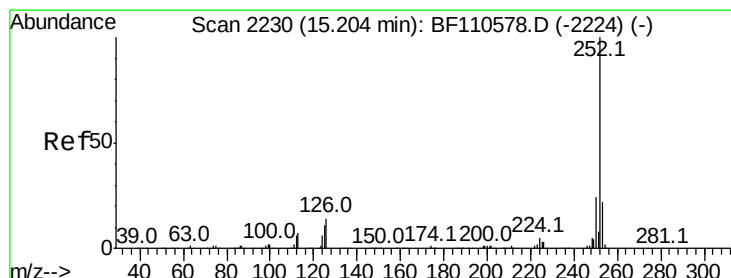
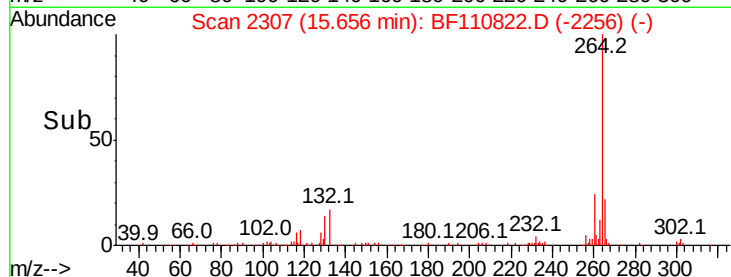
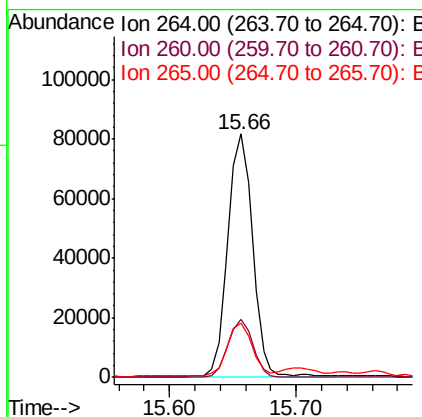
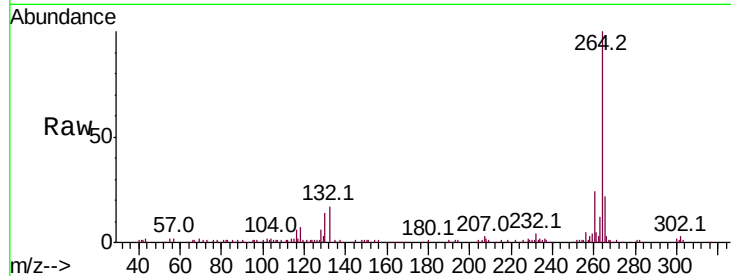
ClientSampled :

VTW-03(4-6)

Tot Ion:	264	Resp:	112212
Ion Ratio	Lower	Upper	
264	100		
260	24.0	18.7	28.1
265	22.3	16.7	25.1

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM



#88

Benzo(b)fluoranthene

Concen: 22.708 ng m

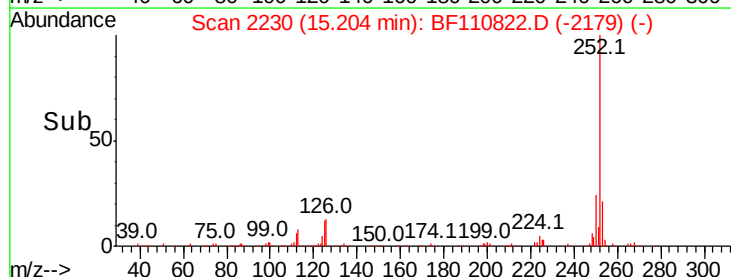
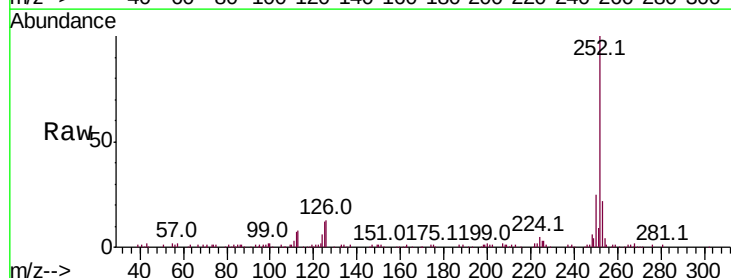
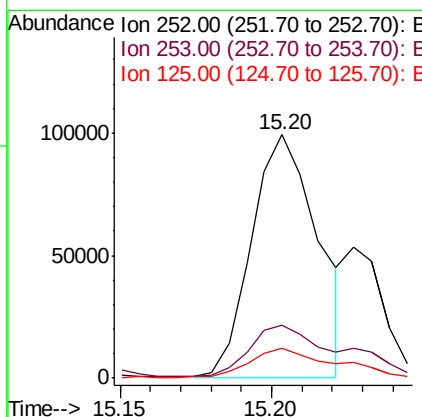
RT: 15.20 min Scan# 2230

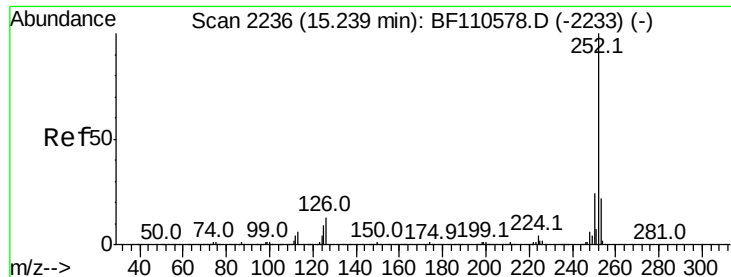
Delta R.T. 0.00 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Tgt Ion:	252	Resp:	152438
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.2	25.8
125	12.3	8.2	12.4





#89

Benzo(k)fluoranthene

Concen: 6.957 ng

RT: 15.23 min Scan# 2234

Delta R.T. -0.01 min

Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Instrument :

BNA_F

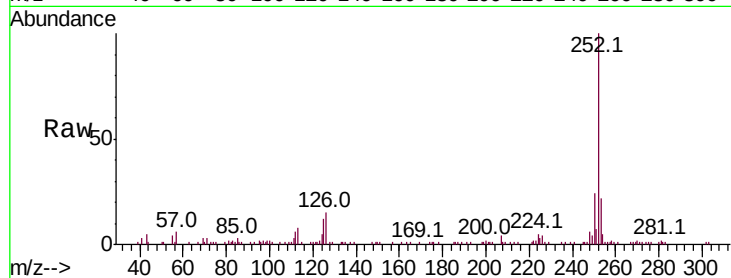
ClientSampleId :

VTW-03(4-6)

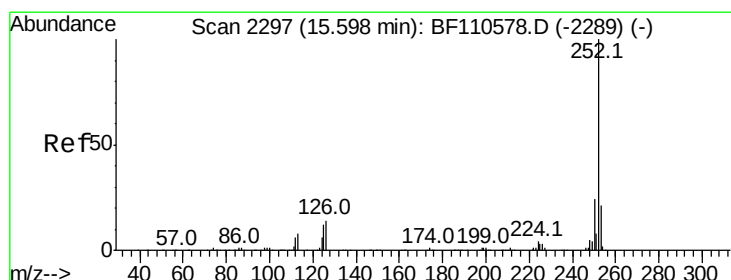
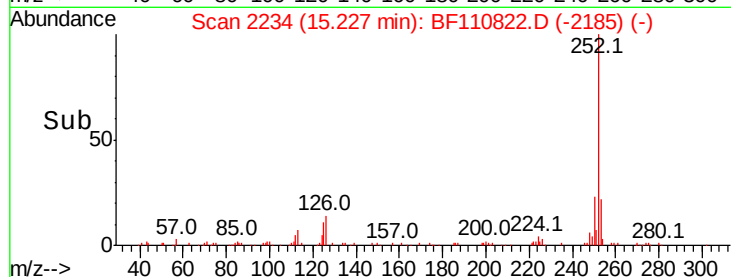
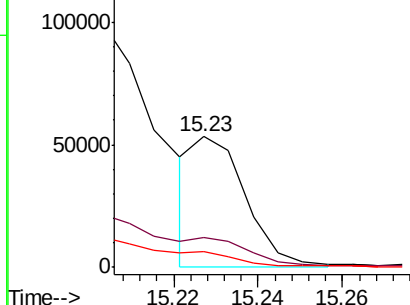
Tot Ion:	252	Resp:	46145
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.2	25.8
125	12.1	7.4	11.0#

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM



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: 18.489 ng

RT: 15.59 min Scan# 2296

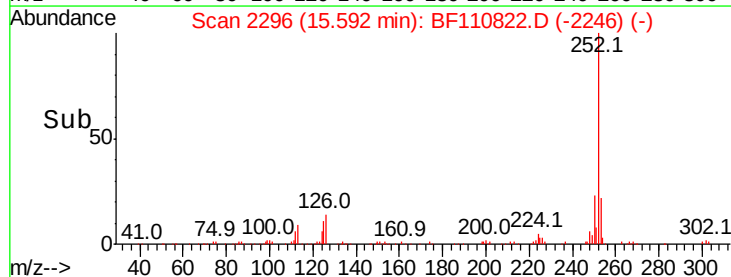
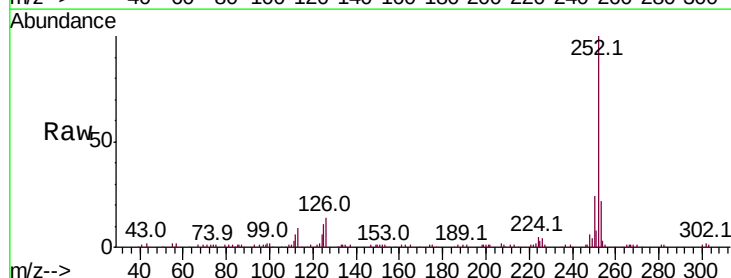
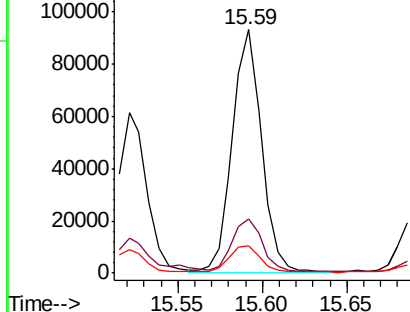
Delta R.T. -0.01 min

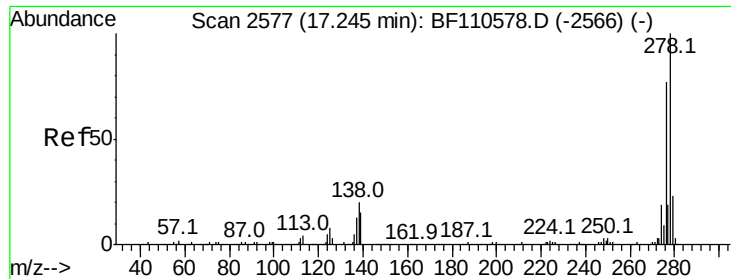
Lab File: BF110822.D

Acq: 16 Nov 2018 17:46

Tgt Ion:	252	Resp:	112765
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.2	27.4
125	11.1	9.0	13.6

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





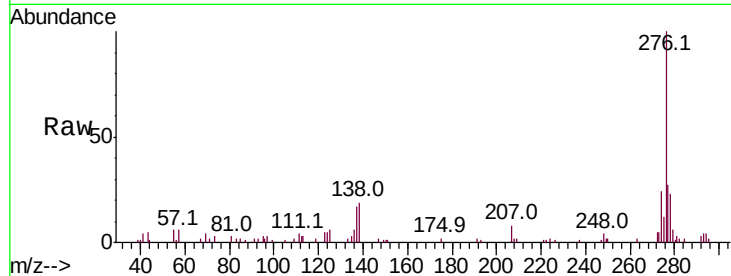
#91
Dibenzo(a,h)anthracene
Concen: 2.930 ng
RT: 17.23 min Scan# 2575
Delta R.T. -0.01 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Instrument :
BNA_F
ClientSampleId :
VTW-03(4-6)

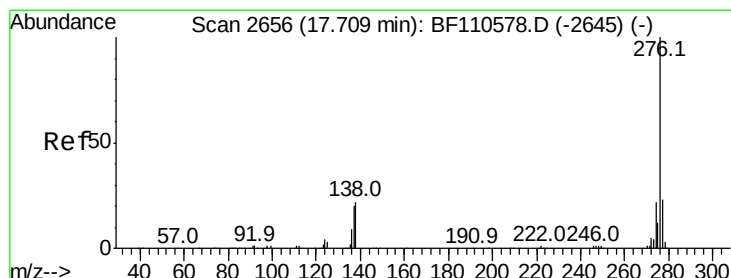
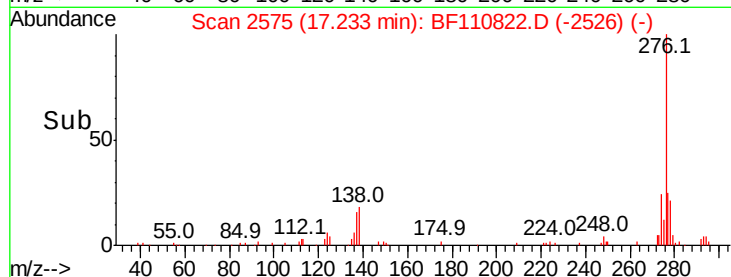
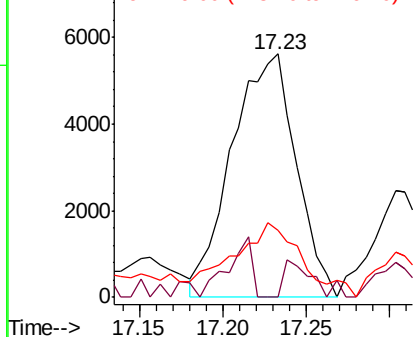
Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	27.7	19.0	28.4

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:55 AM

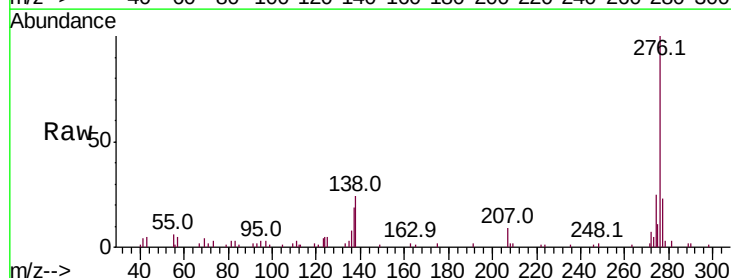


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 10.716 ng
RT: 17.71 min Scan# 2656
Delta R.T. 0.00 min
Lab File: BF110822.D
Acq: 16 Nov 2018 17:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	18.8	28.2
138	24.4	16.0	24.0#



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

