

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
 Data File : BF110821.D
 Acq On : 16 Nov 2018 17:19
 Operator : JU/SJ
 Sample : J5952-04 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VTW-02(4-6)

Manual Integrations
 APPROVED

Sohil
 11/19/2018 11:55:53 AM

Quant Time: Nov 16 23:34:40 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	61115	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	258759	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	114307	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	180230	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	144800	20.00	ng	0.00
87) Perylene-d12	15.66	264	110428	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	89912	23.90	ng	0.00
7) Phenol-d6	6.56	99	115843	24.08	ng	-0.01
23) Nitrobenzene-d5	7.50	82	70995	15.80	ng	-0.01
42) 2,4,6-Tribromophenol	10.77	330	21052	18.28	ng	-0.01
45) 2-Fluorobiphenyl	9.29	172	126641	15.82	ng	-0.01
79) Terphenyl-d14	13.06	244	86625	11.20	ng	-0.01
Target Compounds						
31) Naphthalene	8.25	128	86281	7.103	ng	98
37) 2-Methylnaphthalene	8.93	142	30618m	3.845	ng	
38) 1-Methylnaphthalene	9.03	142	27567	3.600	ng	# 98
49) Acenaphthylene	9.85	152	56059	5.067	ng	98
50) Dimethylphthalate	9.69	163	18615	2.182	ng	98
58) Fluorene	10.53	166	28845	3.671	ng	# 98
71) Phenanthrene	11.50	178	206873	21.425	ng	98
72) Anthracene	11.55	178	68209	7.003	ng	98
75) Fluoranthene	12.70	202	242638	25.064	ng	98
78) Pyrene	12.93	202	290207	26.029	ng	99
81) Benzo(a)anthracene	14.12	228	164648	19.024	ng	97
83) Chrysene	14.16	228	160424	19.456	ng	99
86) Indeno(1,2,3-cd)pyrene	17.23	276	49654	8.392	ng	98
88) Benzo(b)fluoranthene	15.20	252	154935m	23.453	ng	
89) Benzo(k)fluoranthene	15.23	252	55604m	8.518	ng	
90) Benzo(a)pyrene	15.59	252	106131	17.682	ng	99
91) Dibenzo(a,h)anthracene	17.23	278	16442m	3.237	ng	
92) Benzo(g,h,i)perylene	17.72	276	50055	9.932	ng	97

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

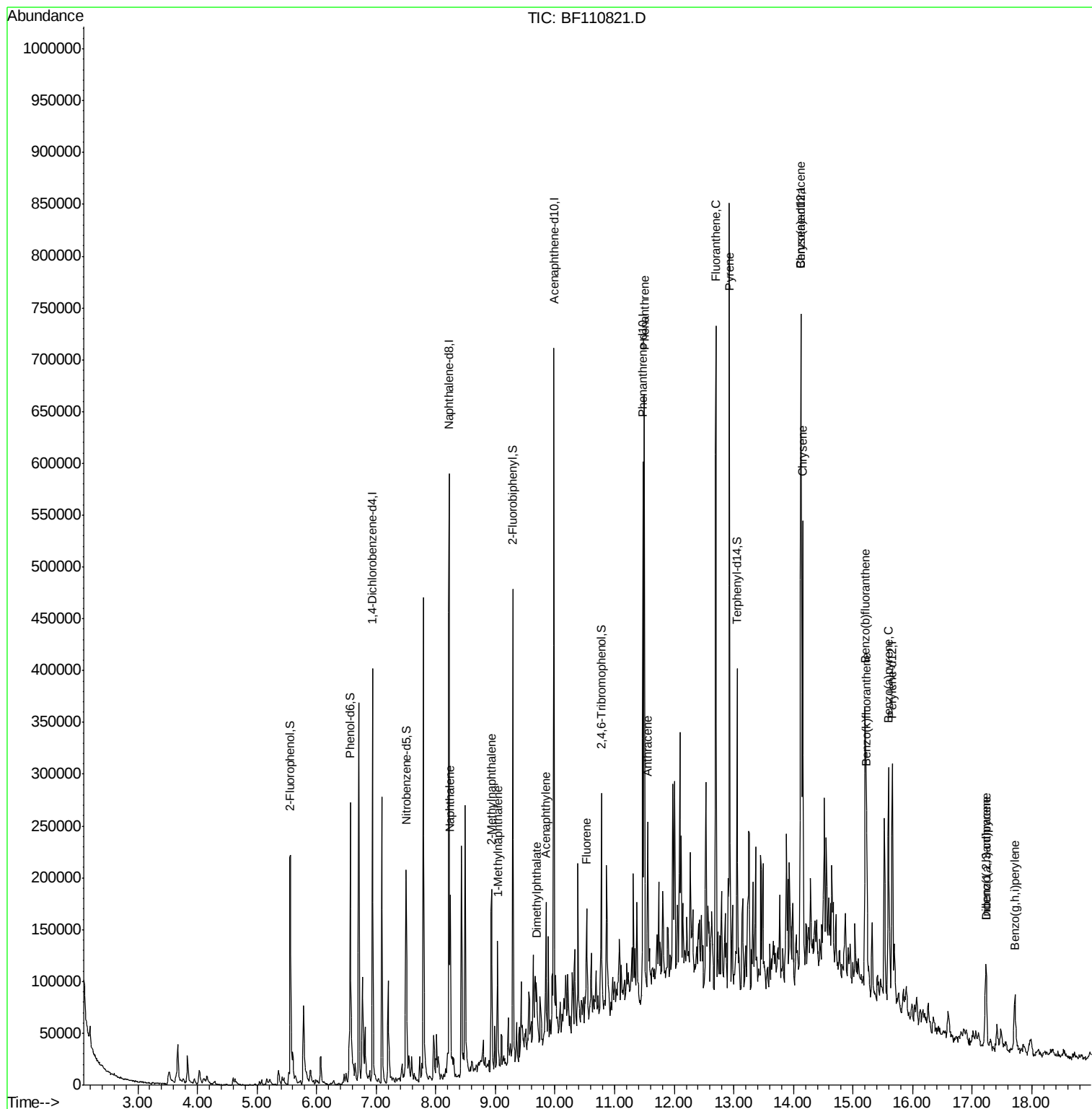
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110821.D
Acq On : 16 Nov 2018 17:19
Operator : JU/SJ
Sample : J5952-04 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

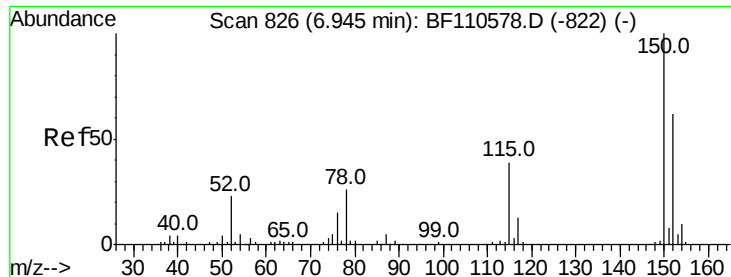
Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM

Quant Time: Nov 16 23:34:40 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

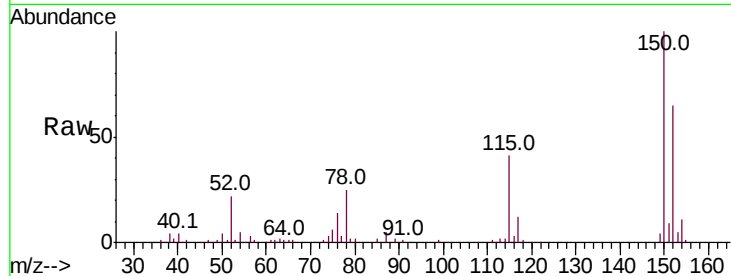
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	122.7	184.1
115	62.7	49.1	73.7

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM

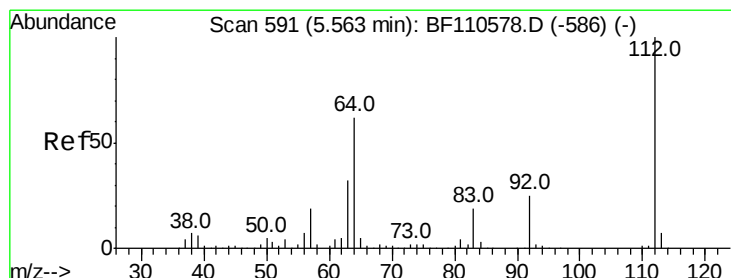
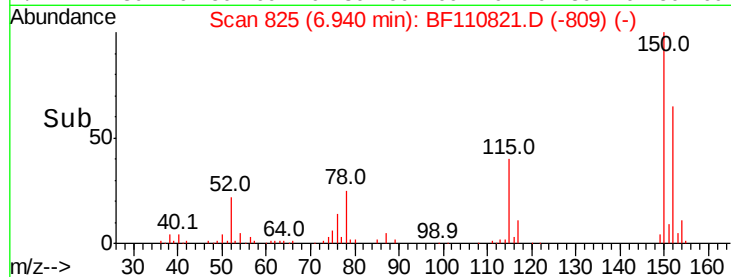
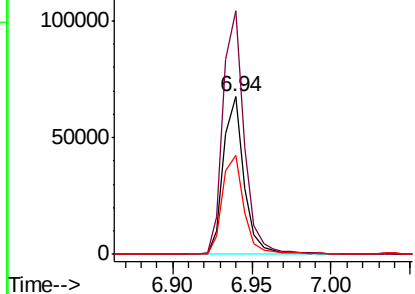


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

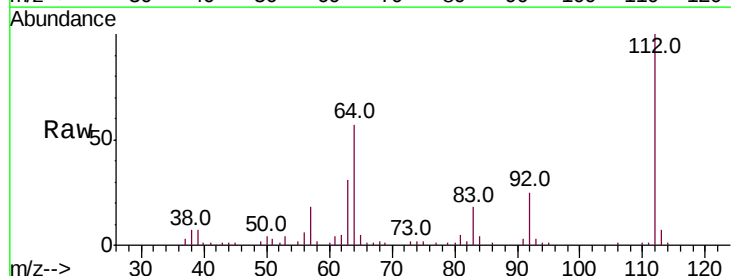
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 23.897 ng
RT: 5.56 min Scan# 590
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	44.1	66.1
63	30.8	23.7	35.5

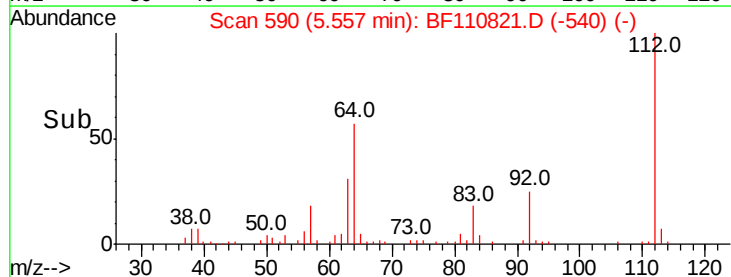
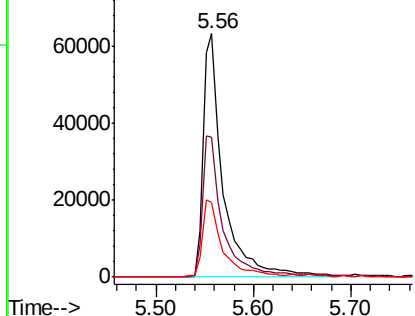


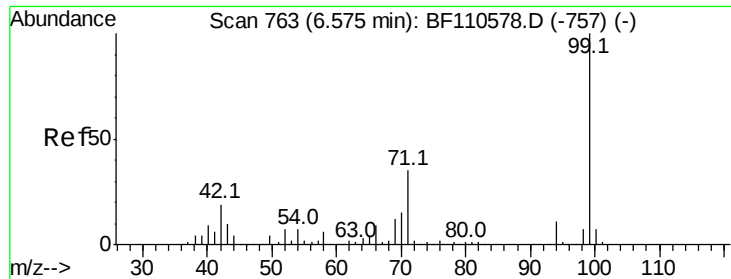
Abundance

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: 24.077 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

ClientSampleId :

VTW-02(4-6)

Tot Ion: 99 Resp: 115843

Ion Ratio Lower Upper

99 100

42 18.7 15.8 23.6

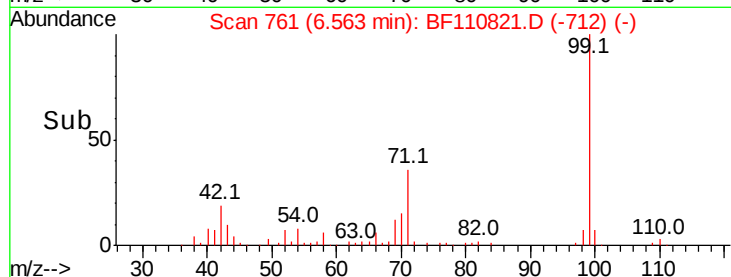
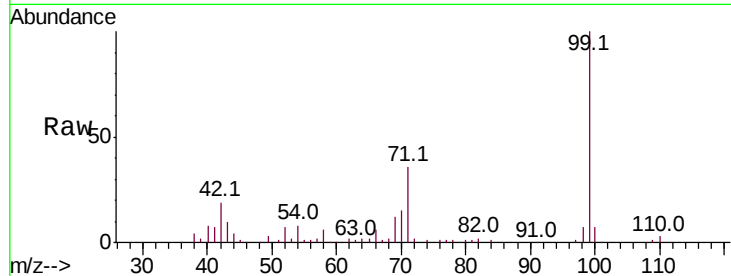
71 36.1 28.0 42.0

Manual Integrations

APPROVED

Sohil

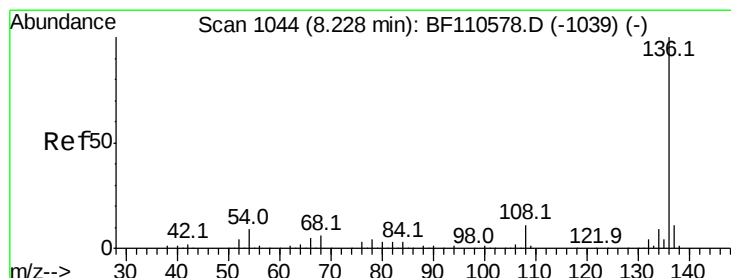
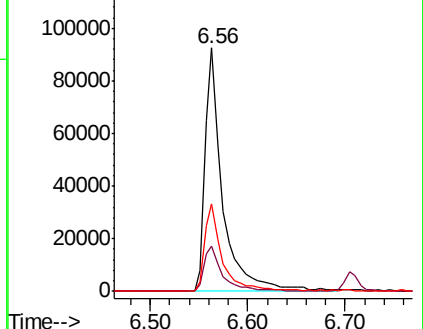
11/19/2018 11:55:53 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Tgt Ion: 136 Resp: 258759

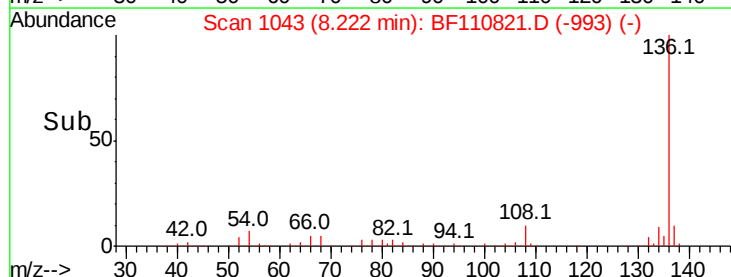
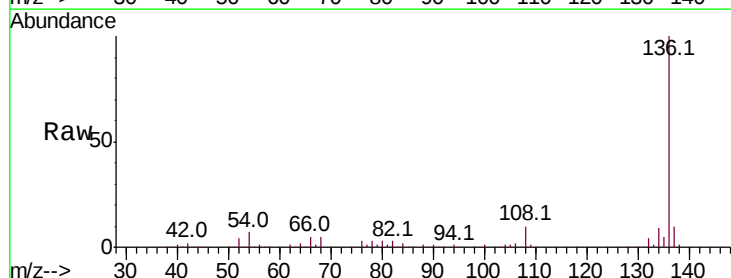
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 7.5 5.4 8.2

68 5.0 4.2 6.2

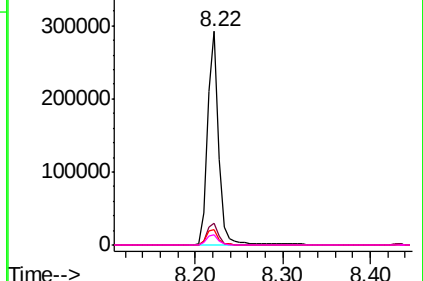


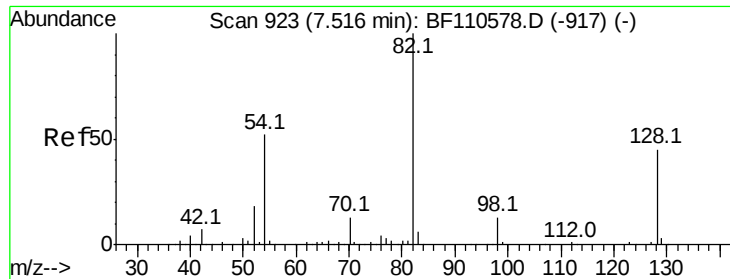
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





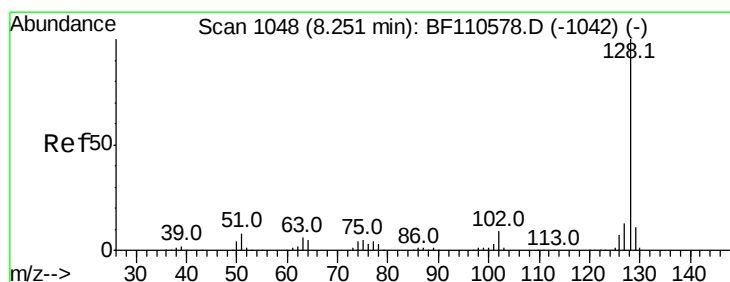
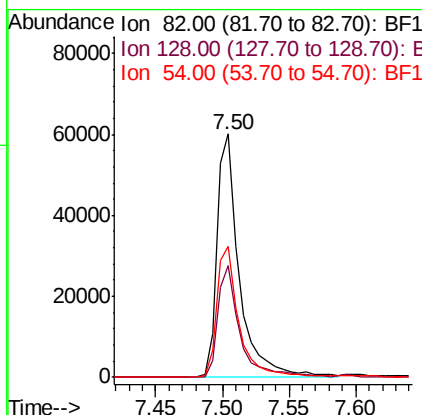
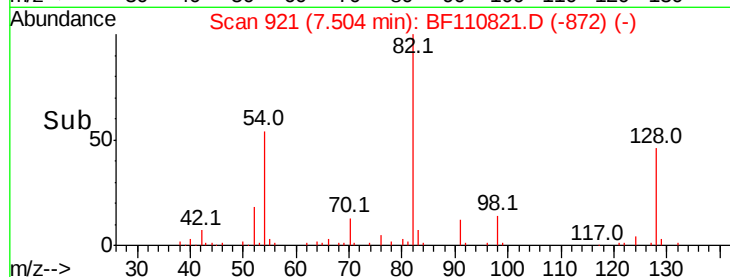
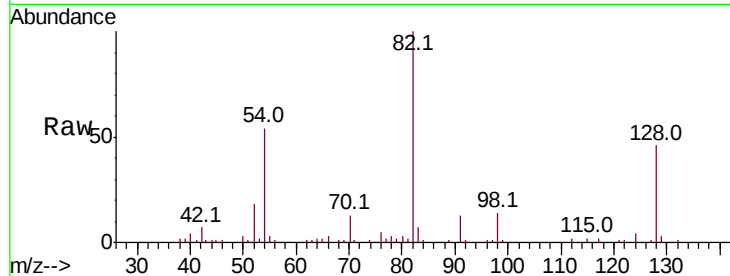
#23
 Nitrobenzene-d5
 Concen: 15.801 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: BF110821.D
 Acq: 16 Nov 2018 17:19

Instrument :
 BNA_F
 ClientSampleId :
 VTW-02(4-6)

Tot Ion:	82	Resp:	70995
Ion Ratio	Lower	Upper	
82	100		
128	45.9	34.2	51.2
54	53.8	38.6	58.0

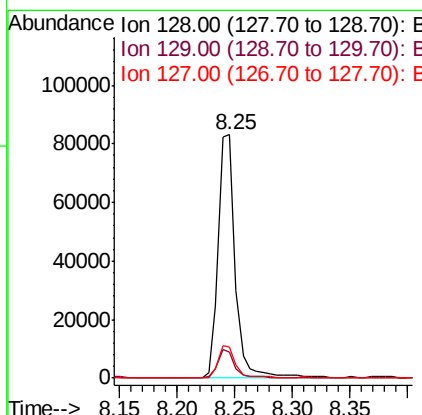
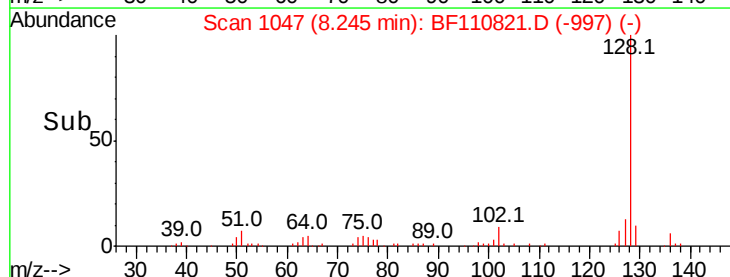
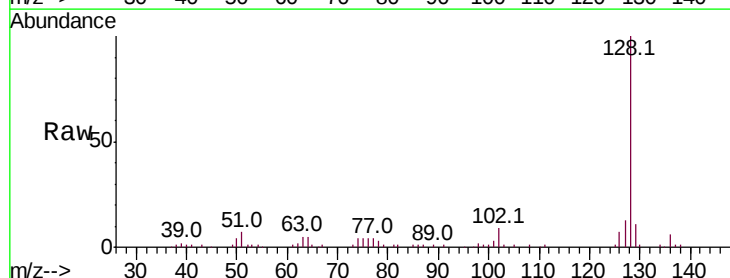
Manual Integrations
 APPROVED

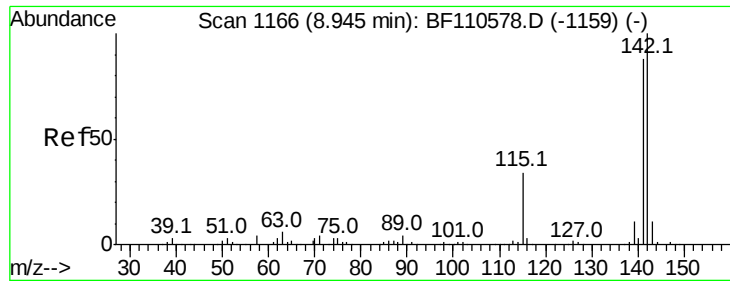
Sohil
 11/19/2018 11:55:53 AM



#31
 Naphthalene
 Concen: 7.103 ng
 RT: 8.25 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BF110821.D
 Acq: 16 Nov 2018 17:19

Tgt Ion:	128	Resp:	86281
Ion Ratio	Lower	Upper	
128	100		
129	10.5	8.8	13.2
127	12.8	10.8	16.2





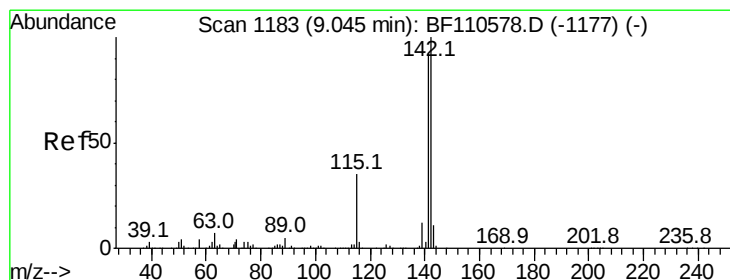
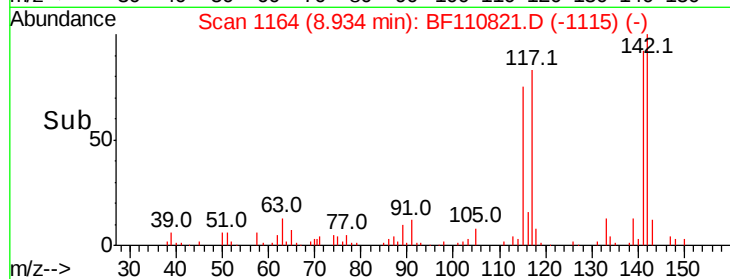
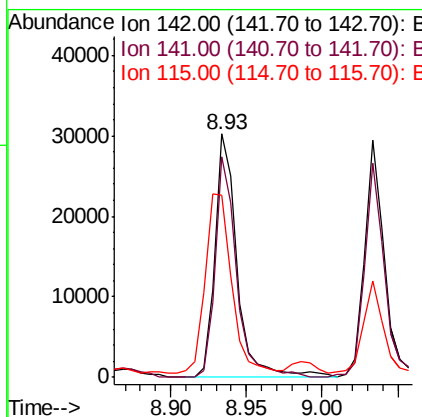
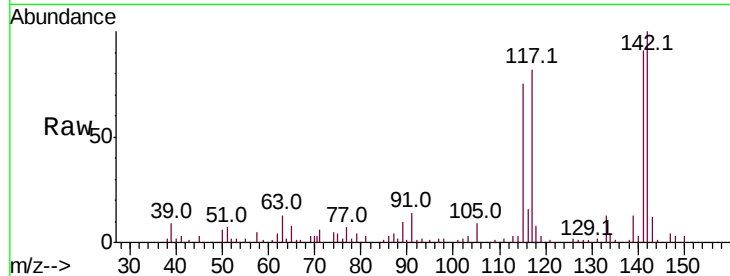
#37
2-Methylnaphthalene
Concen: 3.845 ng m
RT: 8.93 min Scan# 1164
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.4	107.2
115	75.0	28.7	43.1#

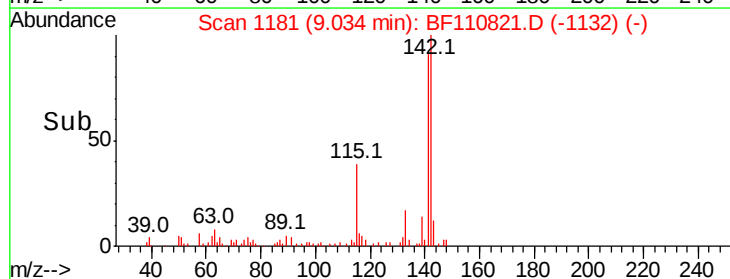
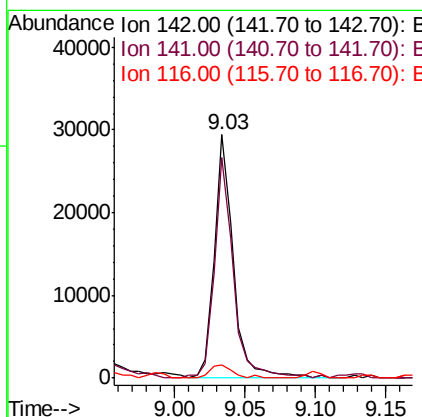
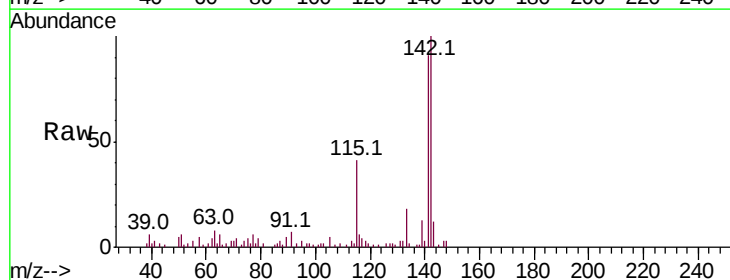
Manual Integrations
APPROVED

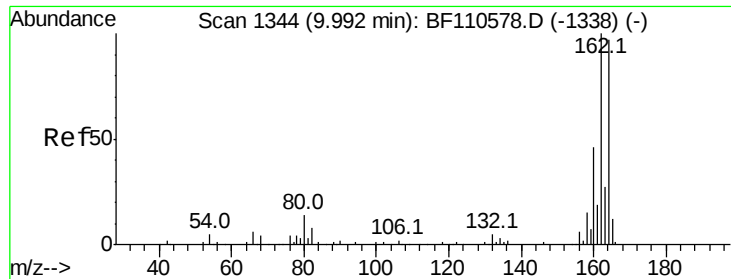
Sohil
11/19/2018 11:55:53 AM



#38
1-Methylnaphthalene
Concen: 3.600 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.6	74.2	111.4
116	5.6	2.6	4.0#





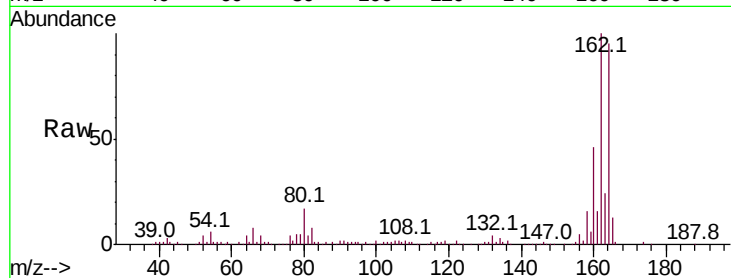
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

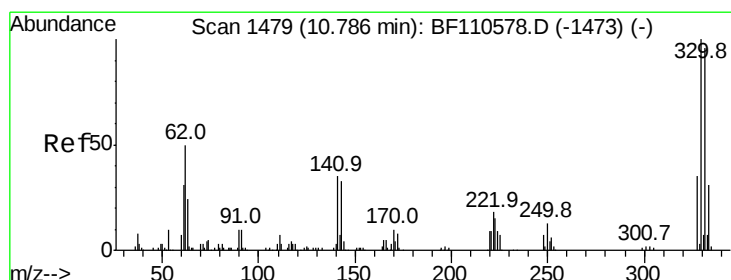
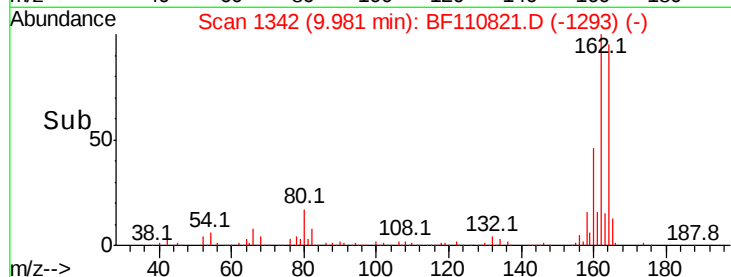
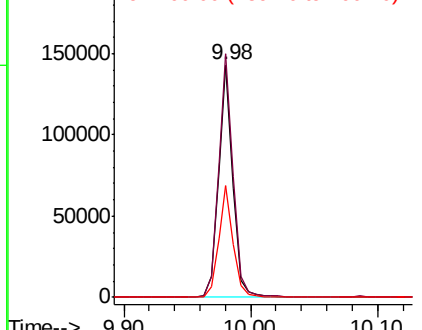
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.9	83.0	124.6	
160	48.2	37.0	55.6	

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM

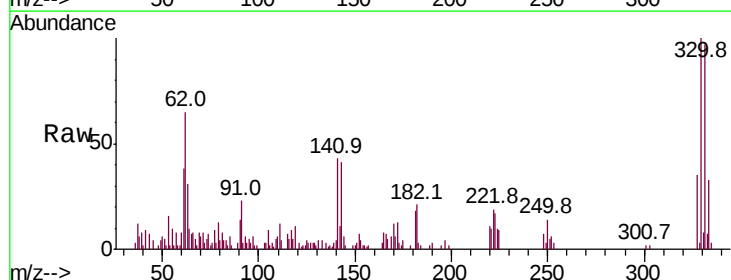


Abundance Ion 164.00 (163.70 to 164.70): E
200000 Ion 162.00 (161.70 to 162.70): E
150000 Ion 160.00 (159.70 to 160.70): E

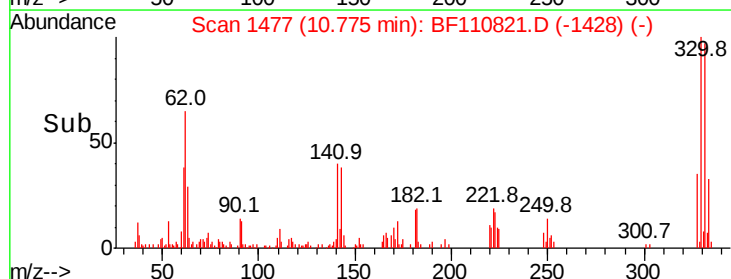
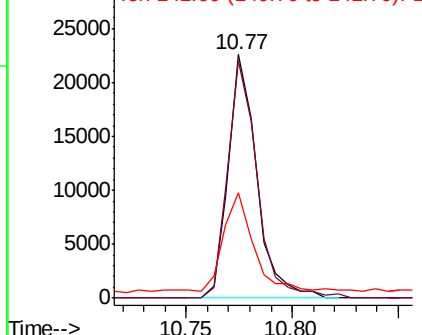


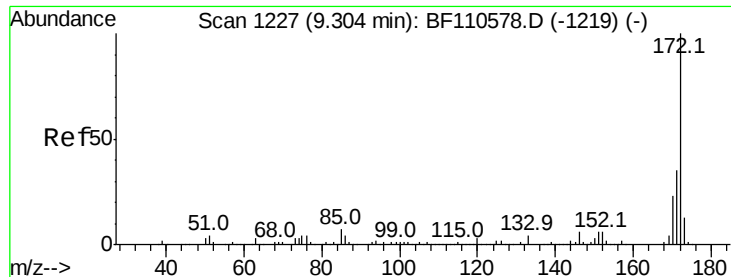
#42
2,4,6-Tribromophenol
Concen: 18.278 ng
RT: 10.77 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	100.4	77.1	115.7	
141	42.3	27.0	40.4	



Abundance Ion 329.80 (329.50 to 330.50): E
30000 Ion 331.80 (331.50 to 332.50): E
25000 Ion 141.00 (140.70 to 141.70): E





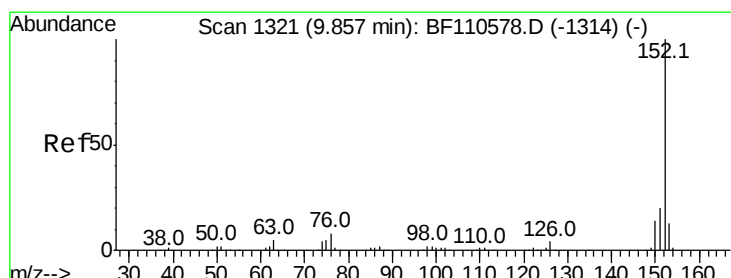
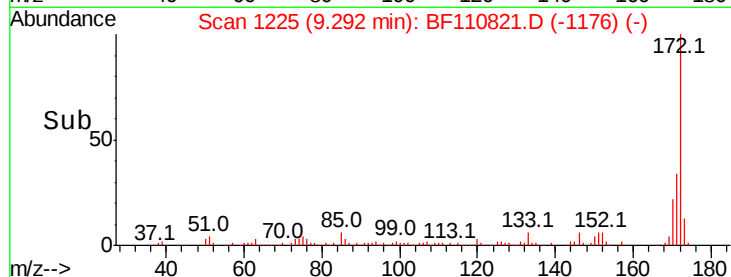
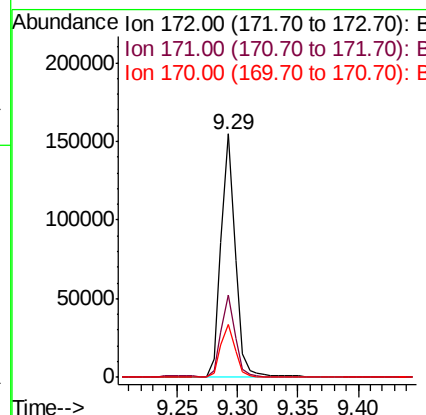
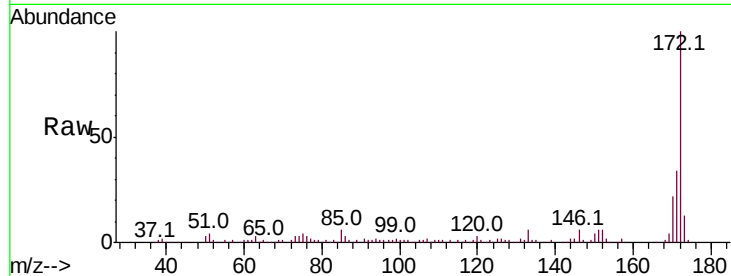
#45
2-Fluorobiphenyl
Concen: 15.823 ng
RT: 9.29 min Scan# 1225
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	126641		
171	33.9		28.6	43.0
170	21.8		19.7	29.5

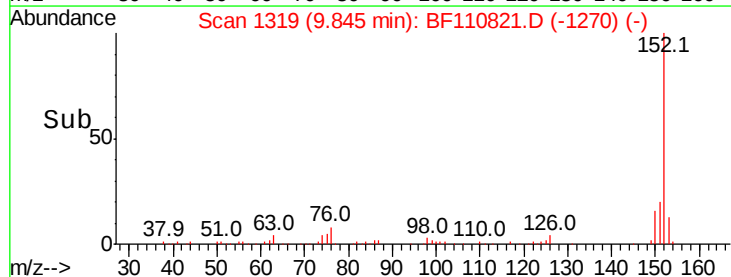
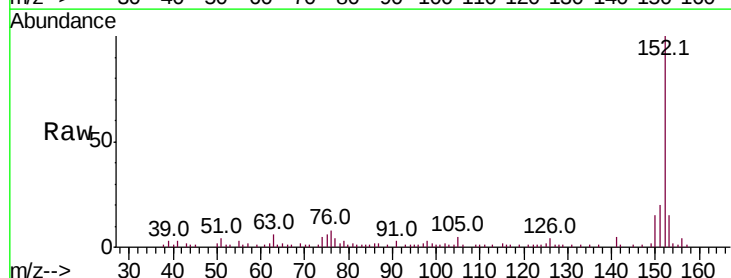
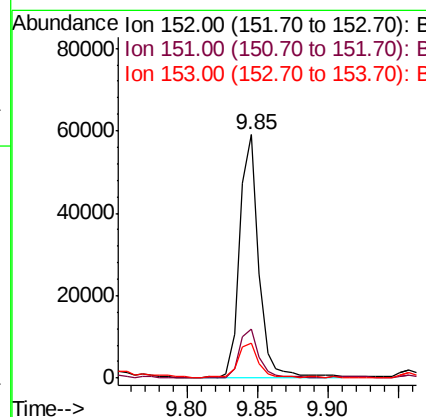
Manual Integrations
APPROVED

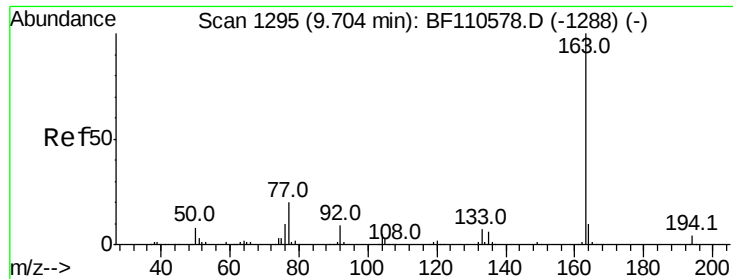
Sohil
11/19/2018 11:55:53 AM



#49
Acenaphthylene
Concen: 5.067 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	56059		
151	20.4		15.8	23.8
153	14.6		10.4	15.6





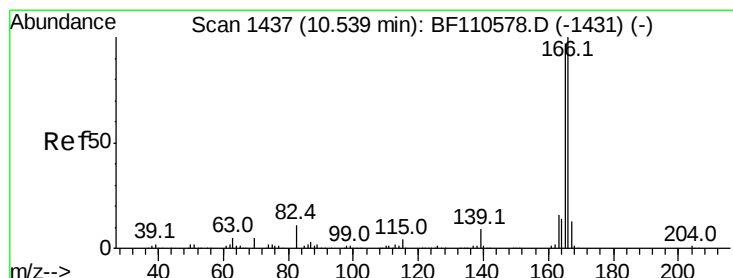
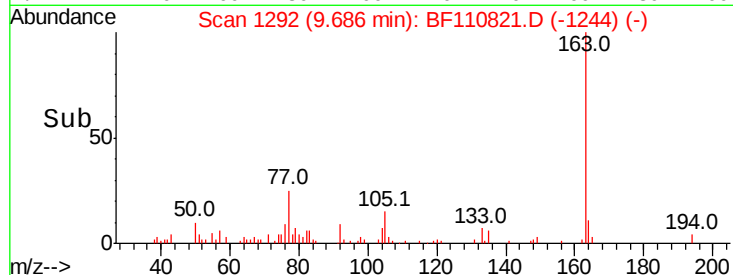
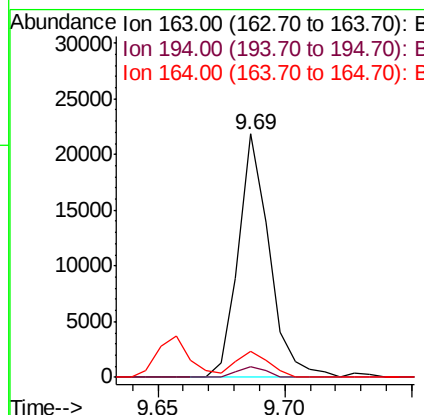
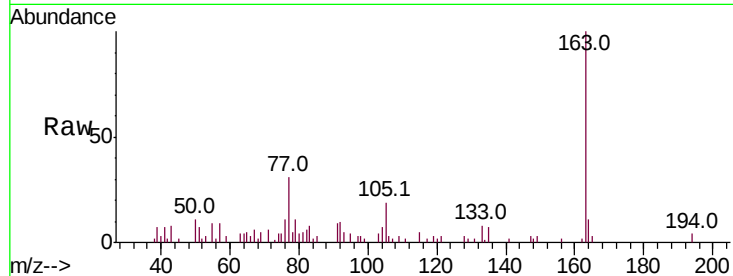
#50
Dimethylphthalate
Concen: 2.182 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.02 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.5	3.2	4.8	
164	10.7	8.1	12.1	

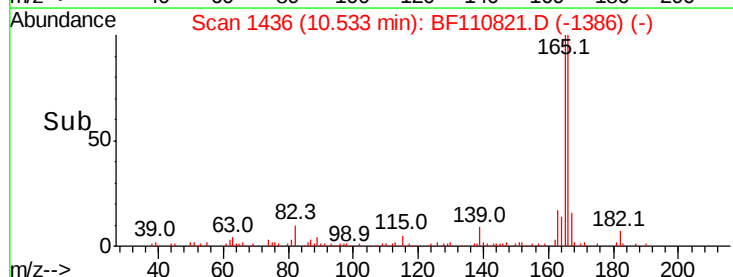
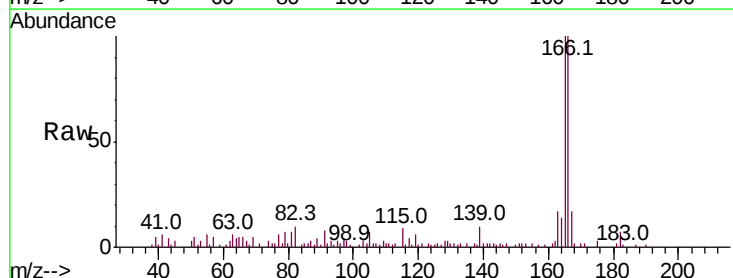
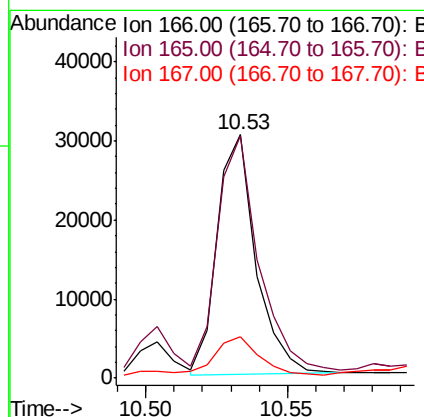
Manual Integrations
APPROVED

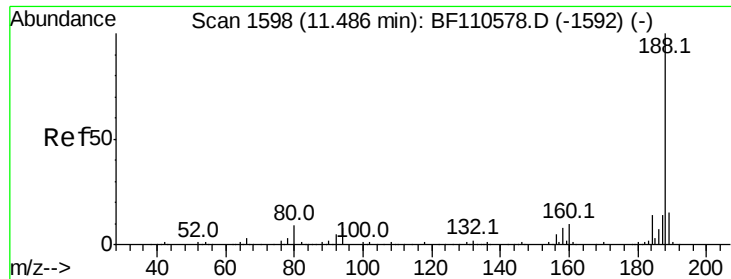
Sohil
11/19/2018 11:55:53 AM



#58
Fluorene
Concen: 3.671 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.5	78.6	117.8	
167	16.7	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: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

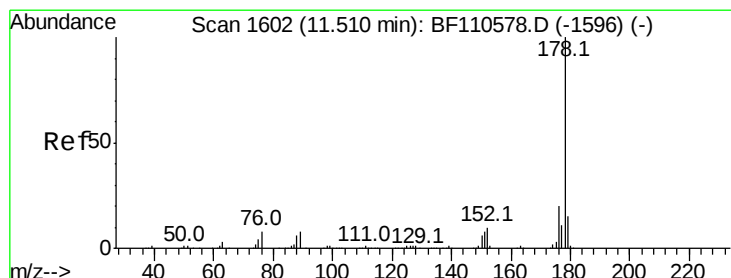
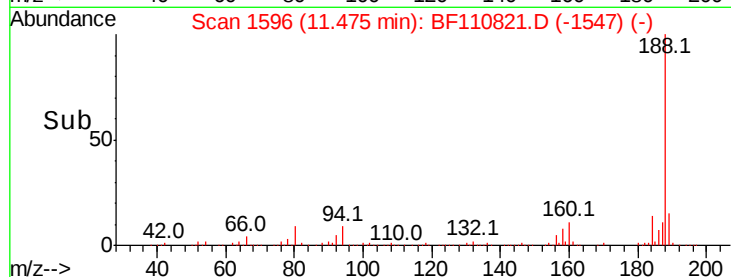
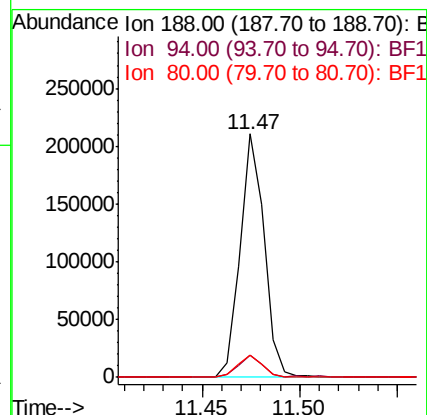
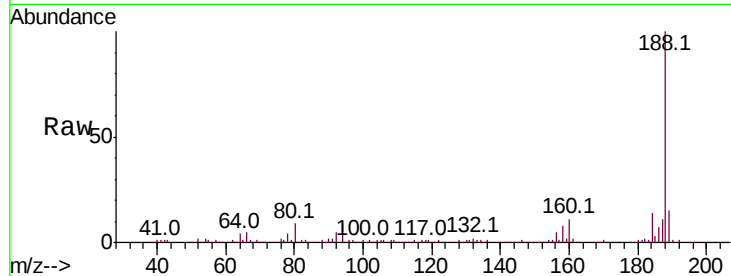
ClientSampleId :

VTW-02(4-6)

Tot Ion:	188	Resp:	180230
Ion Ratio	Lower	Upper	
188	100		
94	9.0	7.2	10.8
80	9.1	7.9	11.9

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



#71

Phenanthrene

Concen: 21.425 ng

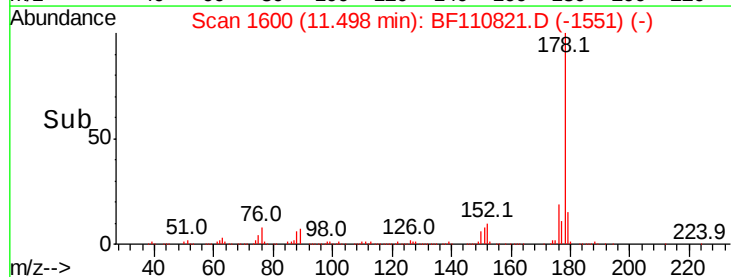
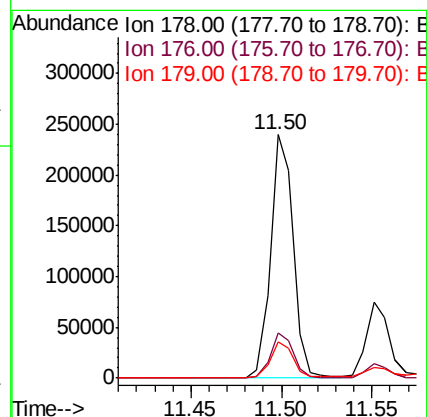
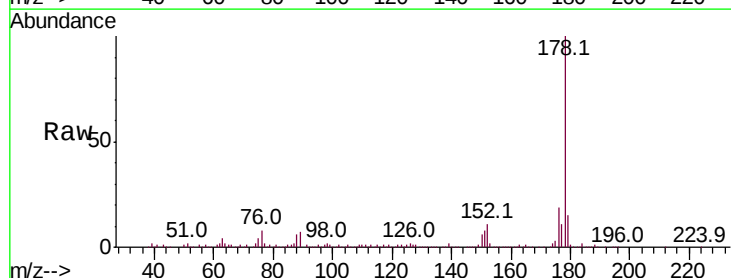
RT: 11.50 min Scan# 1600

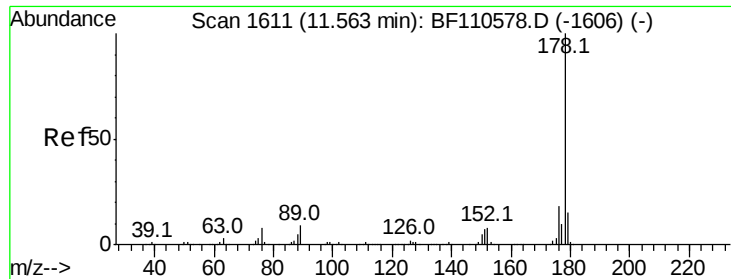
Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Tgt Ion:	178	Resp:	206873
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.5	23.3
179	15.0	12.5	18.7





#72

Anthracene

Concen: 7.003 ng

RT: 11.55 min Scan# 1609

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

ClientSampleId :

VTW-02(4-6)

Tot Ion:178 Resp: 68209

Ion Ratio Lower Upper

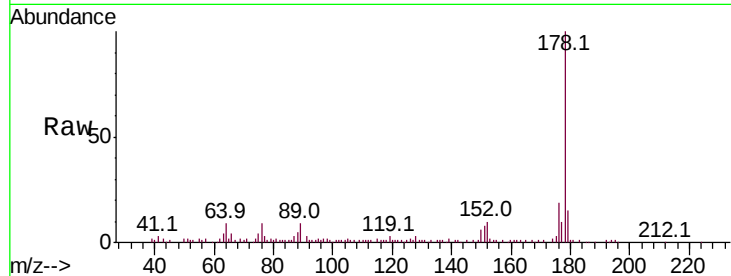
178 100

176 18.5 15.4 23.2

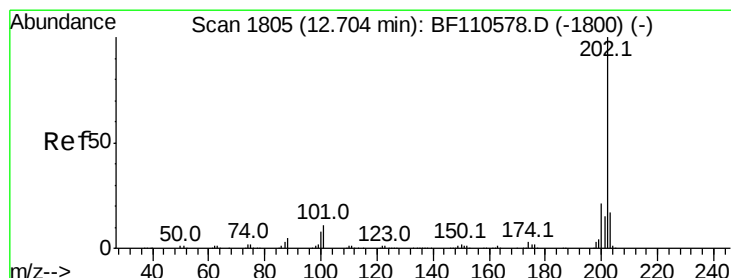
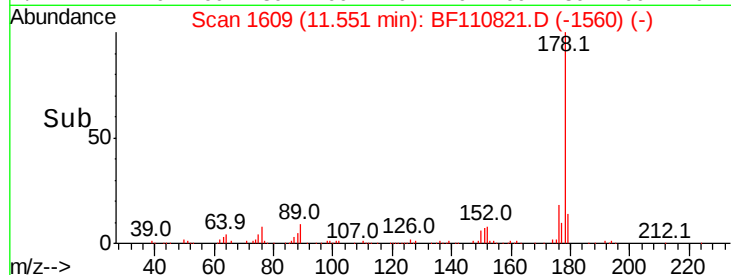
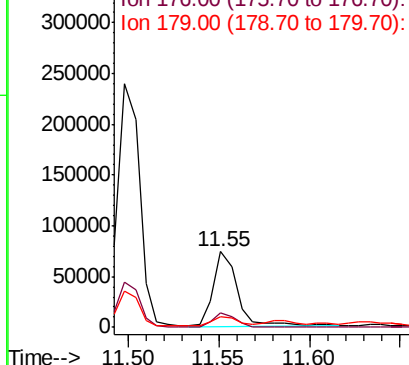
179 14.6 12.6 18.8

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



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



#75

Fluoranthene

Concen: 25.064 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

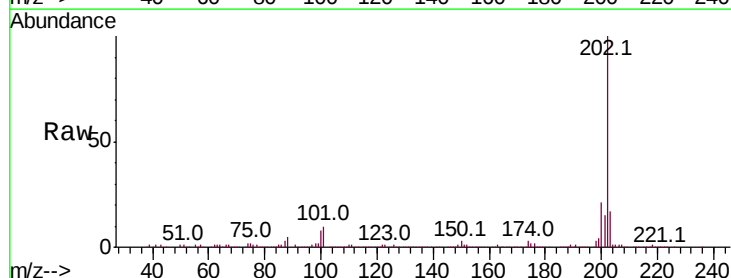
Tgt Ion:202 Resp: 242638

Ion Ratio Lower Upper

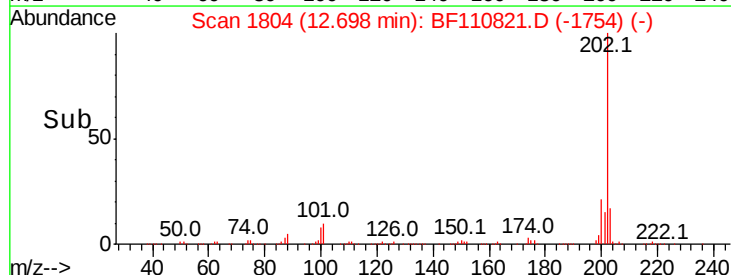
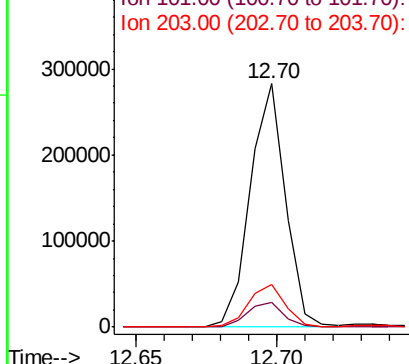
202 100

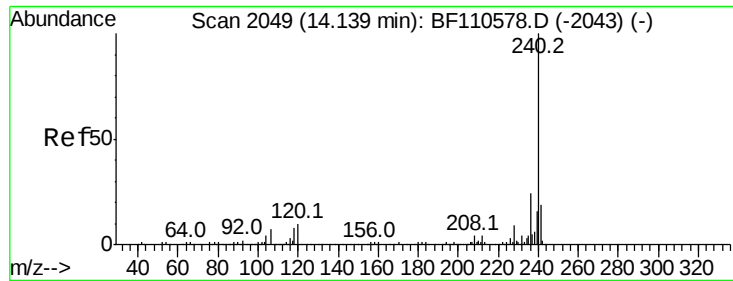
101 9.9 0.0 31.4

203 17.4 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

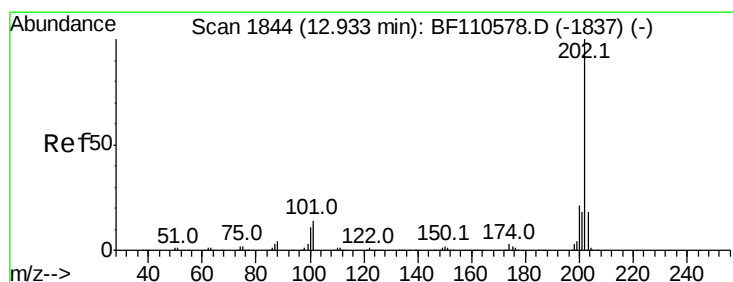
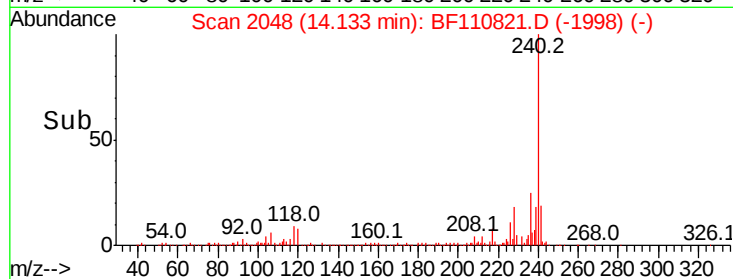
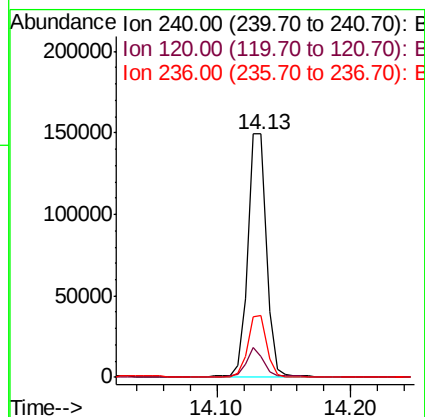
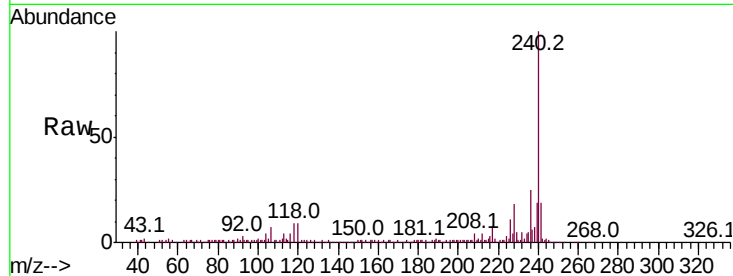
ClientSampled :

VTW-02(4-6)

Tot Ion:	240	Resp:	144800
Ion Ratio	Lower	Upper	
240	100		
120	8.5	8.3	12.5
236	25.4	21.2	31.8

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



#78

Pyrene

Concen: 26.029 ng

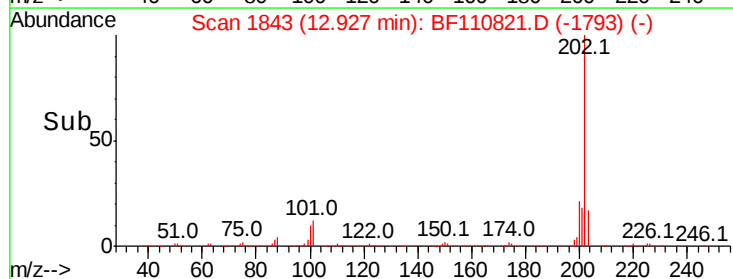
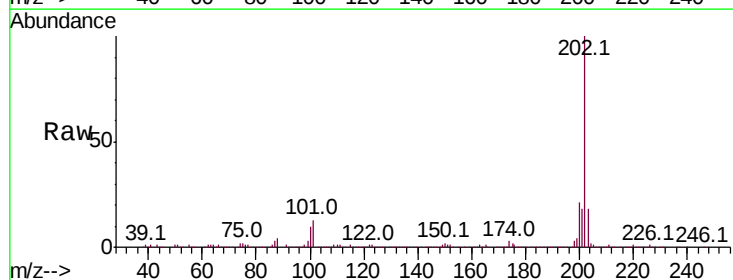
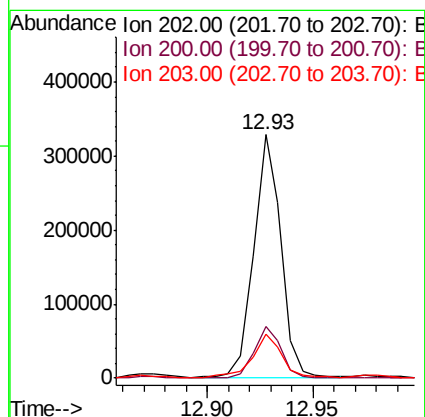
RT: 12.93 min Scan# 1843

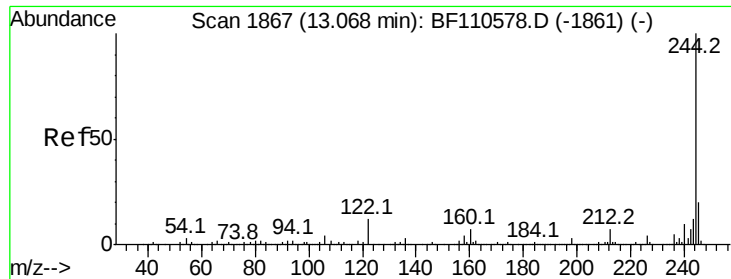
Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Tgt Ion:	202	Resp:	290207
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.8	26.6
203	17.8	14.2	21.4





#79

Terphenyl-d14

Concen: 11.204 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

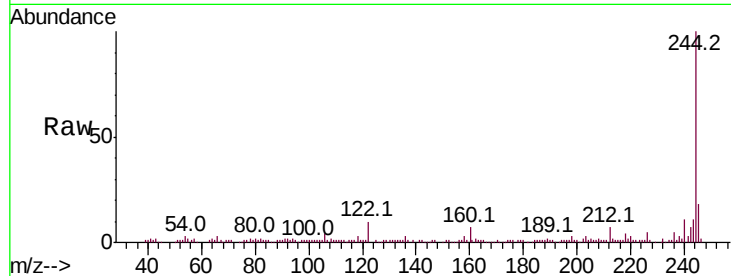
ClientSampled :

VTW-02(4-6)

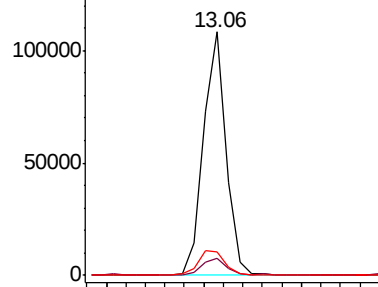
Tot Ion:	244	Resp:	86625
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.8	8.8
122	9.8	8.7	13.1

Manual Integrations
APPROVED

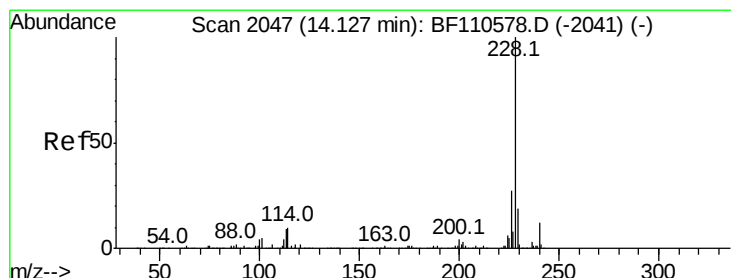
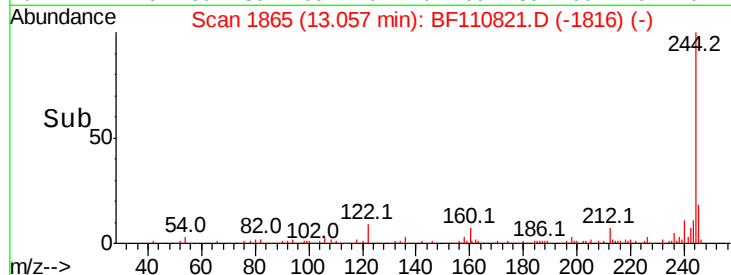
Sohil
11/19/2018 11:55:53 AM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->



#81

Benzo(a)anthracene

Concen: 19.024 ng

RT: 14.12 min Scan# 2046

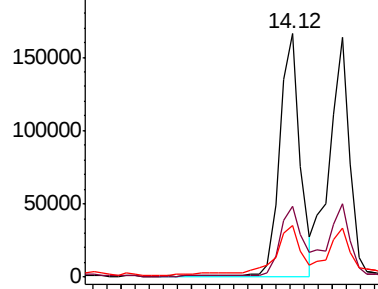
Delta R.T. -0.01 min

Lab File: BF110821.D

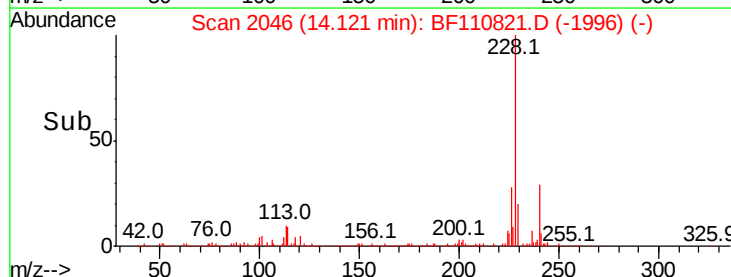
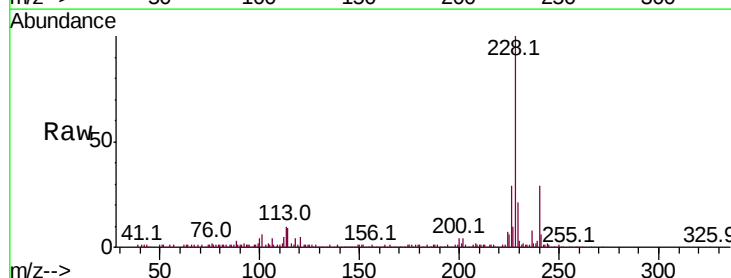
Acq: 16 Nov 2018 17:19

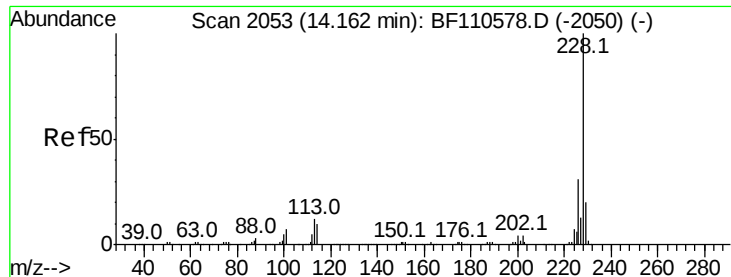
Tgt Ion:	228	Resp:	164648
Ion Ratio	Lower	Upper	
228	100		
226	29.2	22.1	33.1
229	21.2	15.6	23.4

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



Time-->





#83

Chrysene

Concen: 19.456 ng

RT: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

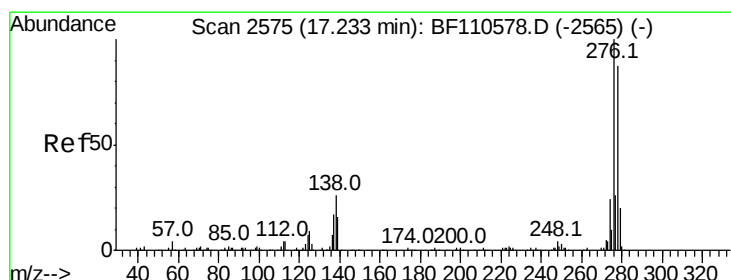
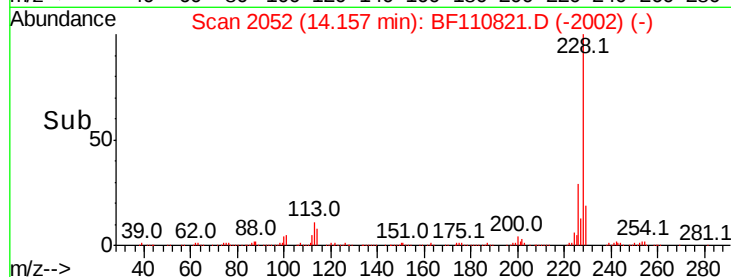
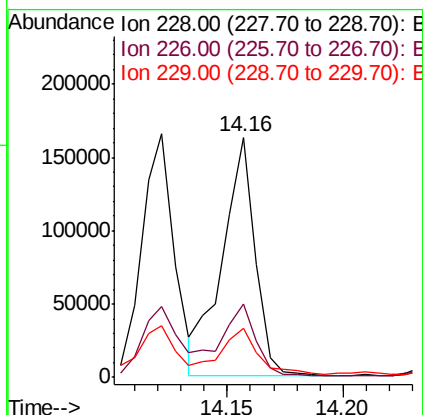
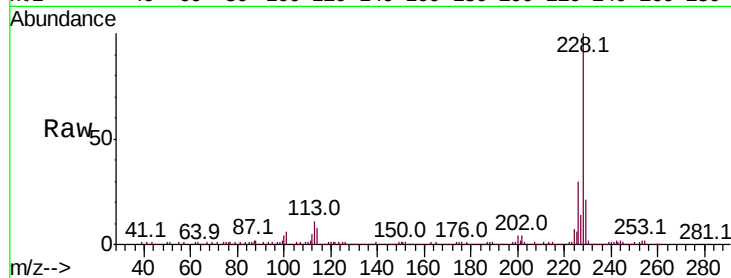
ClientSampled :

VTW-02(4-6)

Tot Ion:	228	Resp:	160424
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.7	37.1
229	20.6	15.9	23.9

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.392 ng

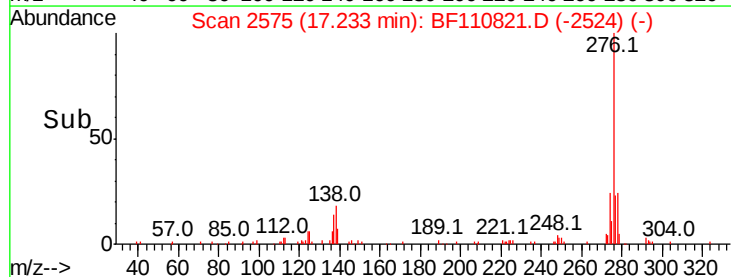
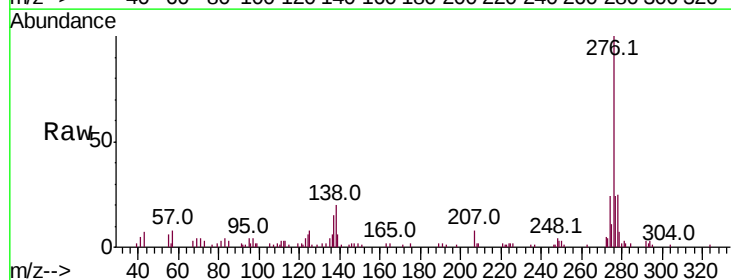
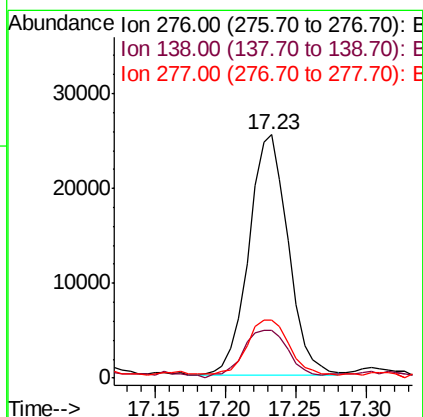
RT: 17.23 min Scan# 2575

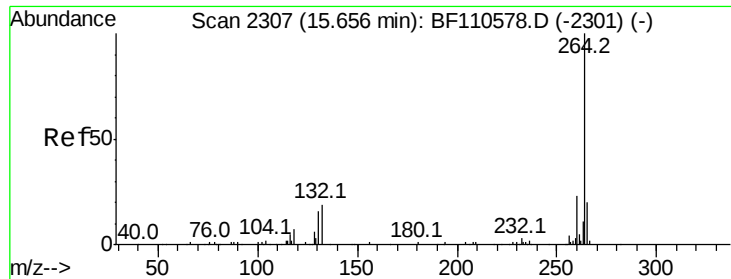
Delta R.T. 0.00 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

Tgt Ion:	276	Resp:	49654
Ion Ratio	Lower	Upper	
276	100		
138	23.5	18.5	27.7
277	23.7	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: BF110821.D

Acq: 16 Nov 2018 17:19

Instrument :

BNA_F

ClientSampled :

VTW-02(4-6)

Tot Ion:264 Resp: 110428

Ion Ratio Lower Upper

264 100

260 22.5 18.7 28.1

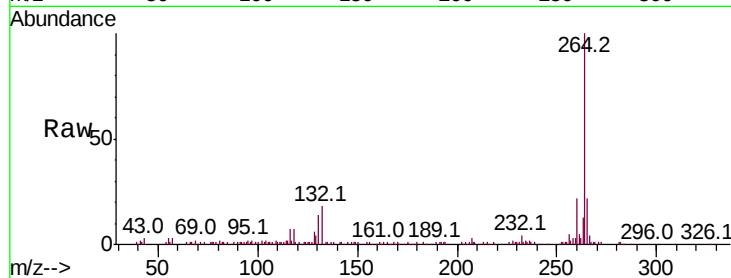
265 22.0 16.7 25.1

Manual Integrations

APPROVED

Sohil

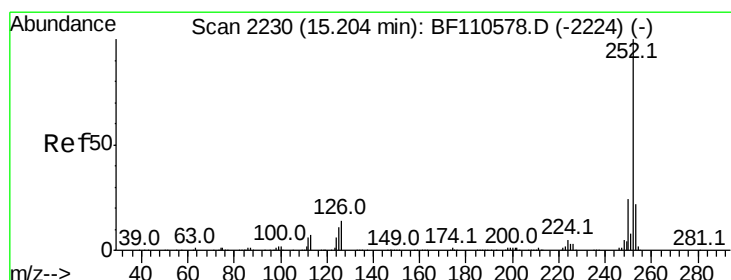
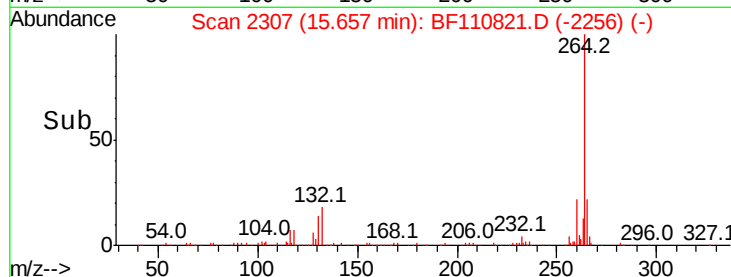
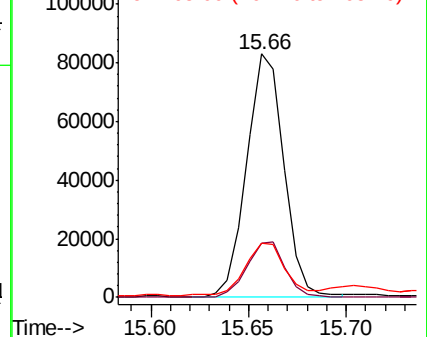
11/19/2018 11:55:53 AM



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: 23.453 ng m

RT: 15.20 min Scan# 2230

Delta R.T. 0.00 min

Lab File: BF110821.D

Acq: 16 Nov 2018 17:19

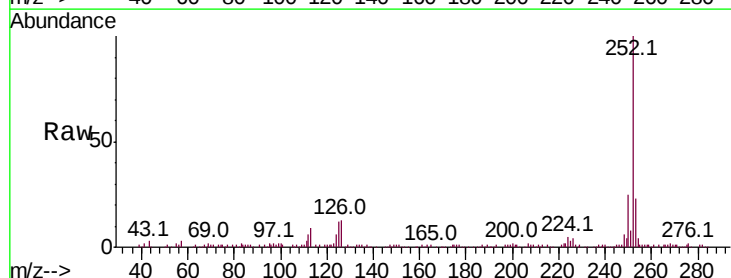
Tgt Ion:252 Resp: 154935

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

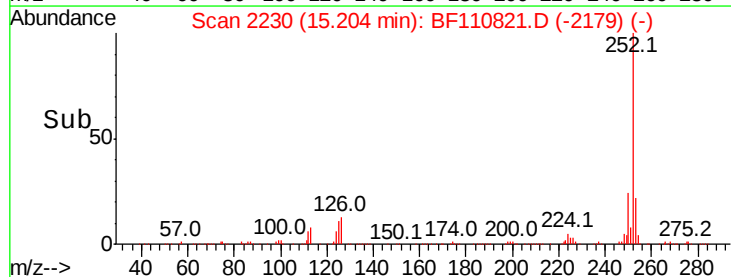
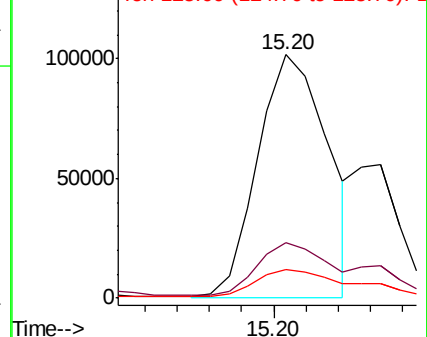
125 11.8 8.2 12.4

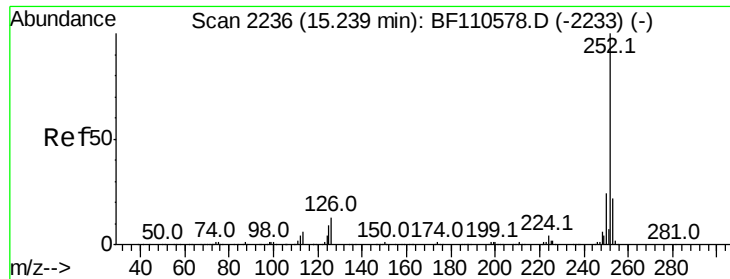


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





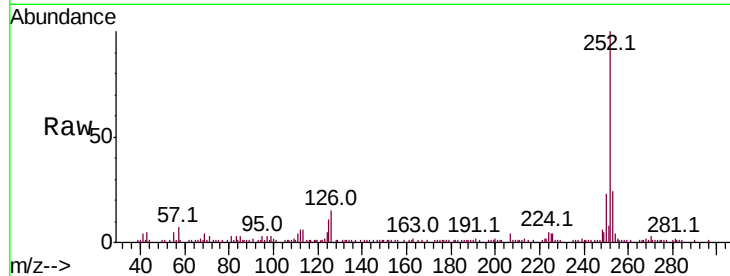
#89
Benzo(k)fluoranthene
Concen: 8.518 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleId :
VTW-02(4-6)

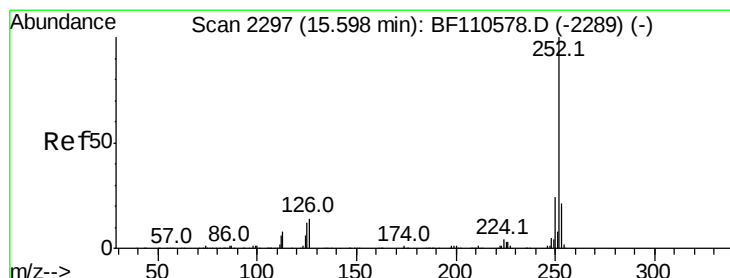
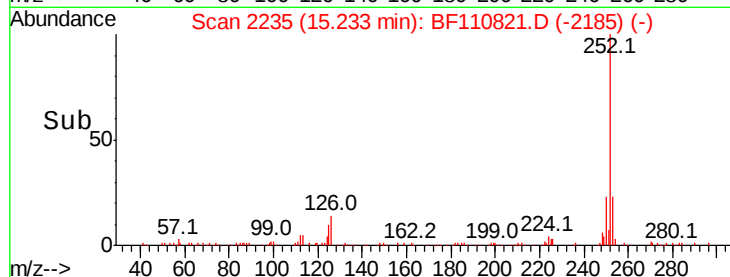
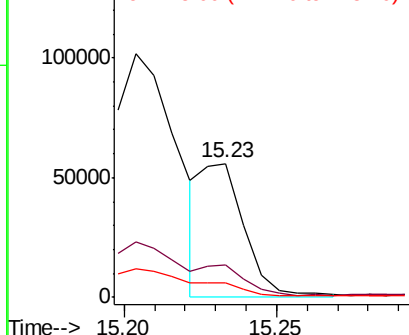
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.2	25.8
125	11.3	7.4	11.0

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



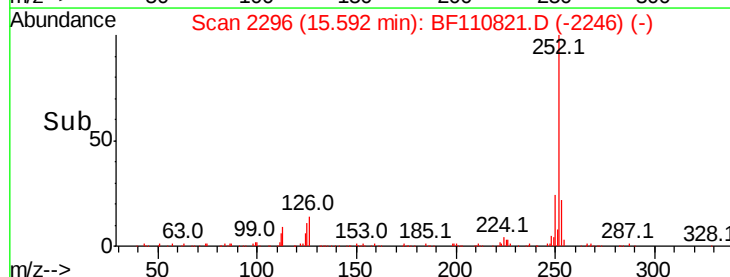
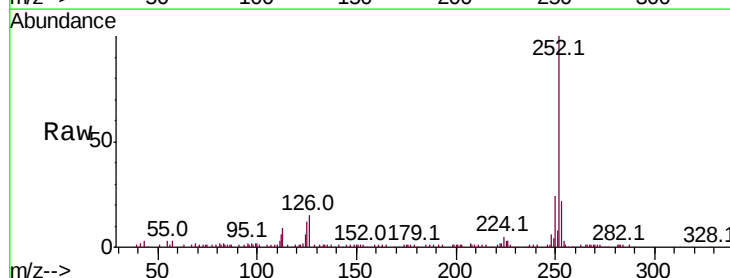
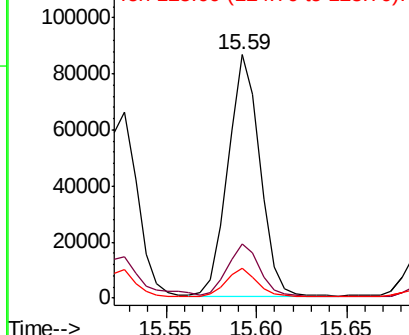
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

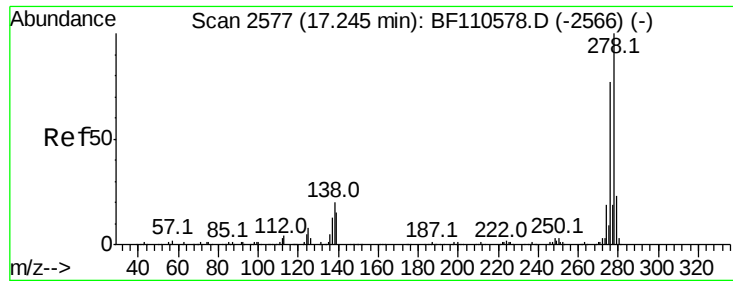


#90
Benzo(a)pyrene
Concen: 17.682 ng
RT: 15.59 min Scan# 2296
Delta R.T. -0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	12.0	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





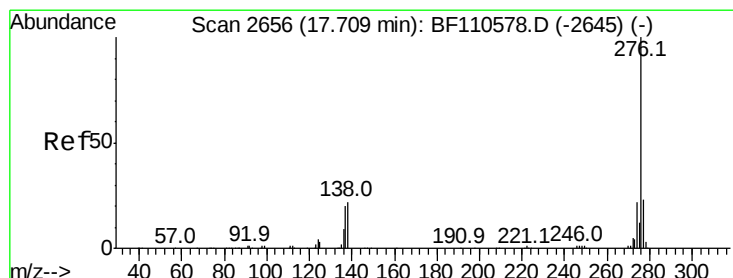
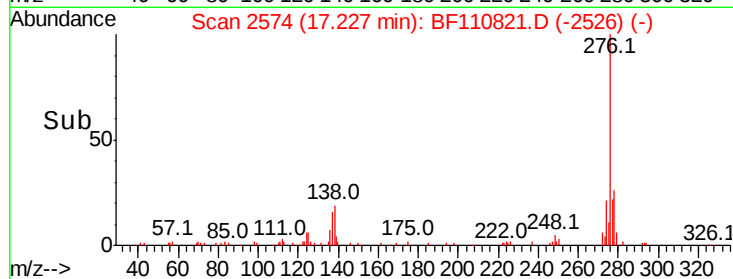
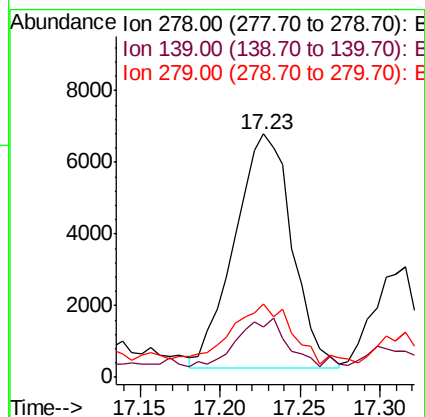
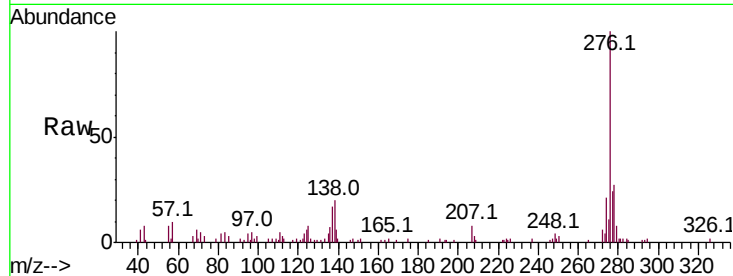
#91
Dibenzo(a,h)anthracene
Concen: 3.237 ng/mL
RT: 17.23 min Scan# 2574
Delta R.T. -0.02 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Instrument :
BNA_F
ClientSampleID :
VTW-02(4-6)

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.5	12.7	19.1#
279	30.2	19.0	28.4#

Manual Integrations
APPROVED

Sohil
11/19/2018 11:55:53 AM



#92
Benzo(g,h,i)perylene
Concen: 9.932 ng/mL
RT: 17.72 min Scan# 2657
Delta R.T. 0.01 min
Lab File: BF110821.D
Acq: 16 Nov 2018 17:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.8	28.2
138	22.6	16.0	24.0

