

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082318\
 Data File : BF108442.D
 Acq On : 24 Aug 2018 1:05
 Operator : JU/SJ
 Sample : J4283-03 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-082118

Manual Integrations
 APPROVED

Sohil
 8/24/2018 12:14:30 PM

Quant Time: Aug 24 10:57:41 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 22 11:01:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	131503	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	495720	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	223179	20.00	ng	-0.01
63) Phenanthrene-d10	11.54	188	356691	20.00	ng	0.00
75) Chrysene-d12	14.19	240	269322	20.00	ng	0.00
86) Perylene-d12	15.75	264	237428	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	100989	13.90	ng	-0.01
7) Phenol-d6	6.61	99	140299	14.54	ng	-0.02
23) Nitrobenzene-d5	7.56	82	87318	9.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.84	330	22411	10.07	ng	-0.01
44) 2-Fluorobiphenyl	9.35	172	174426	12.55	ng	-0.01
78) Terphenyl-d14	13.12	244	123719	11.68	ng	-0.01
Target Compounds						
57) Fluorene	10.60	166	39905	2.763	ng	Qvalue 97
70) Phenanthrene	11.57	178	294034	17.477	ng	98
71) Anthracene	11.61	178	93395	5.416	ng	98
74) Fluoranthene	12.76	202	454573	24.757	ng	94
77) Pyrene	13.00	202	406318	23.830	ng	99
80) Benzo(a)anthracene	14.18	228	233424	15.102	ng	100
82) Chrysene	14.22	228	183473	12.948	ng	99
85) Indeno(1,2,3-cd)pyrene	17.35	276	94270m	7.678	ng	
87) Benzo(b)fluoranthene	15.28	252	278033m	19.597	ng	
88) Benzo(k)fluoranthene	15.31	252	83072m	6.370	ng	
89) Benzo(a)pyrene	15.68	252	198392	15.616	ng	98
90) Dibenzo(a,h)anthracene	17.35	278	23487m	2.234	ng	
91) Benzo(a,h,i)perylene	17.85	276	85731	8.283	ng	# 88

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

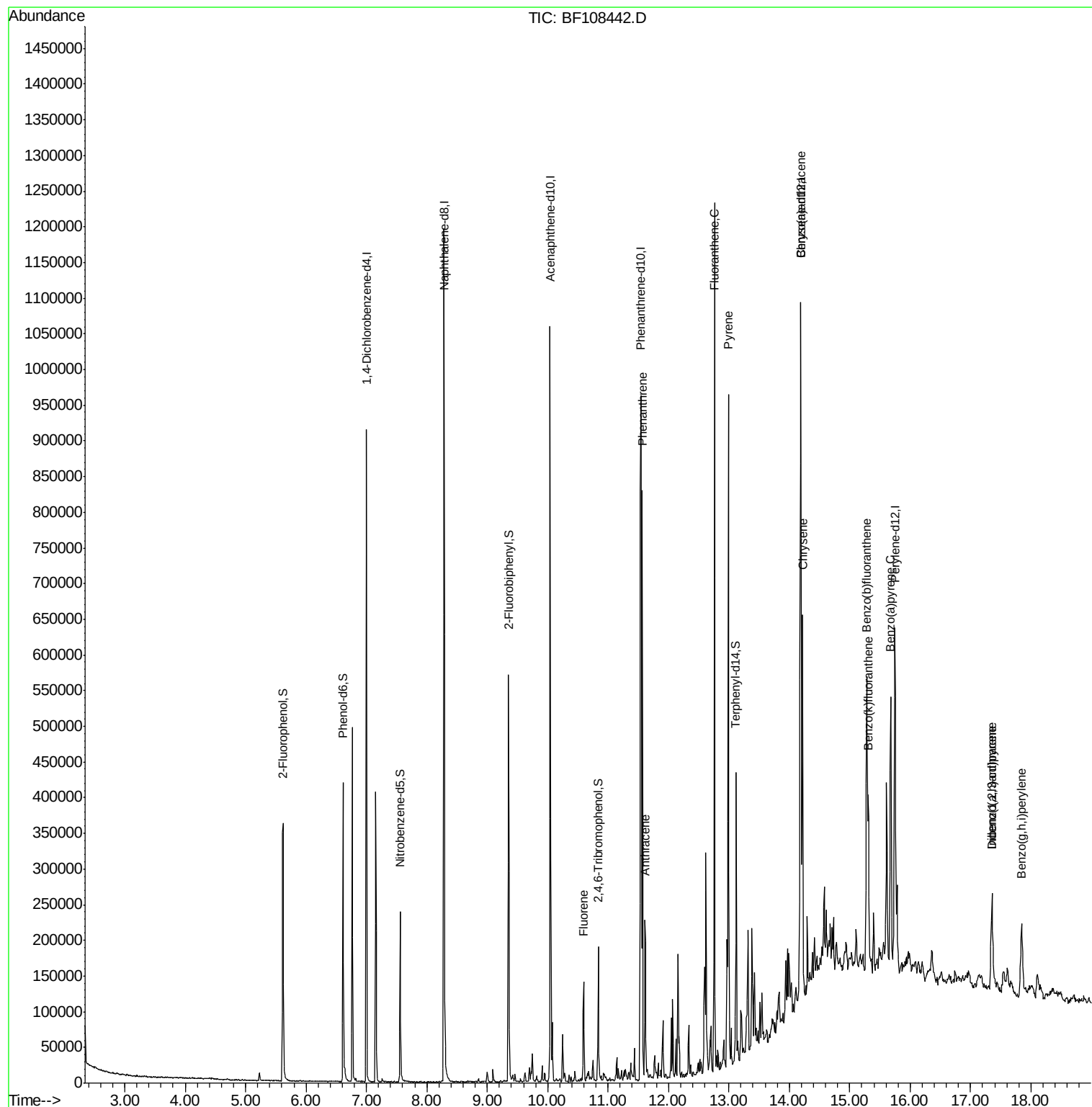
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082318\
Data File : BF108442.D
Acq On : 24 Aug 2018 1:05
Operator : JU/SJ
Sample : J4283-03 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

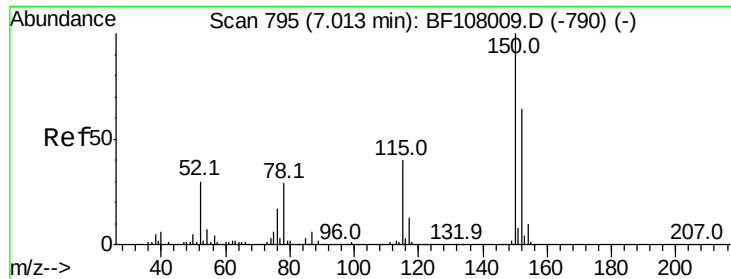
Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Manual Integrations
APPROVED

Sohil
8/24/2018 12:14:30 PM

Quant Time: Aug 24 10:57:41 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 22 11:01:45 2018
Response via : Initial Calibration





#1

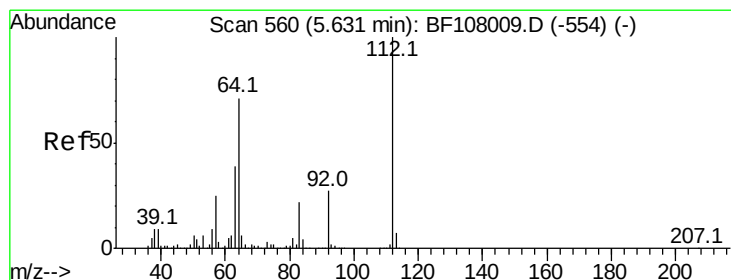
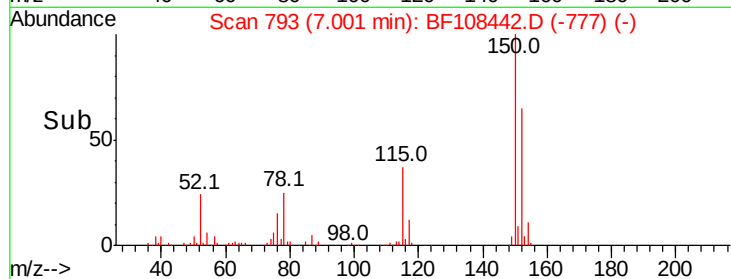
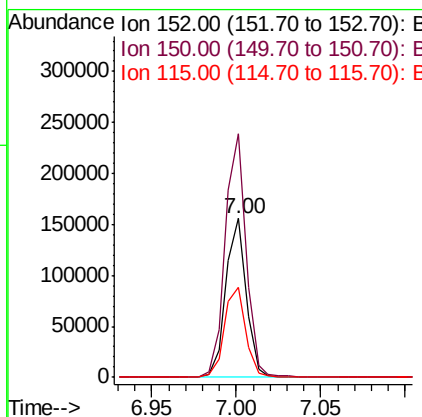
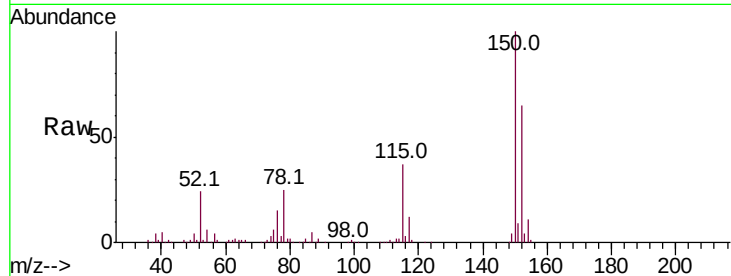
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.6	186.8
115	56.9	50.1	75.1

Manual Integrations
APPROVED

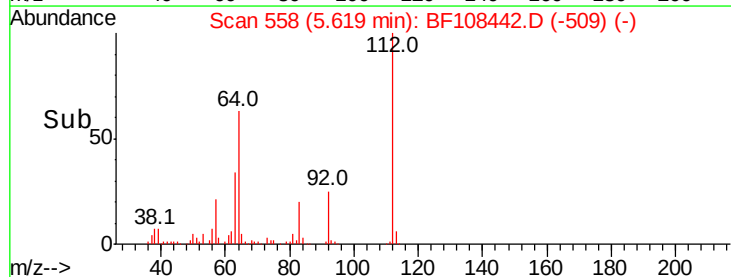
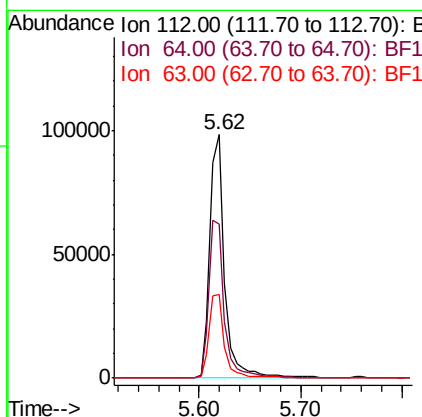
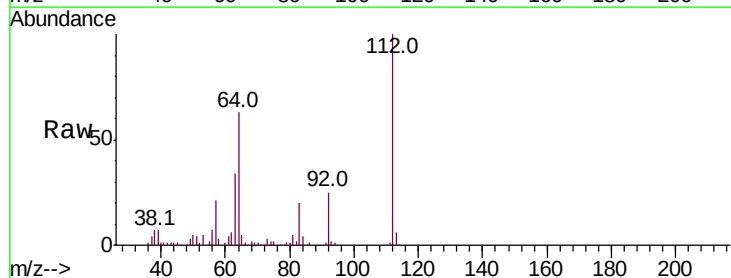
Sohil
8/24/2018 12:14:30 PM

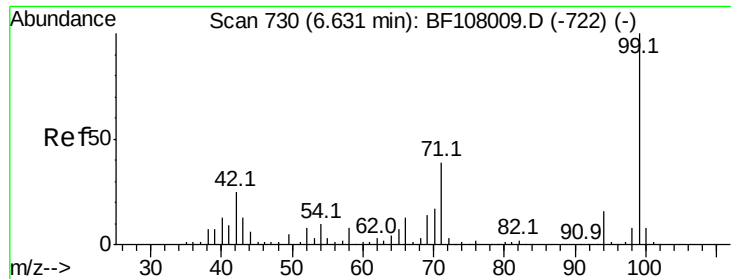


#5

2-Fluorophenol
Concen: 13.904 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	47.9	71.9
63	34.3	23.7	35.5





#7

Phenol-d6

Concen: 14.535 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Instrument :

BNA_F

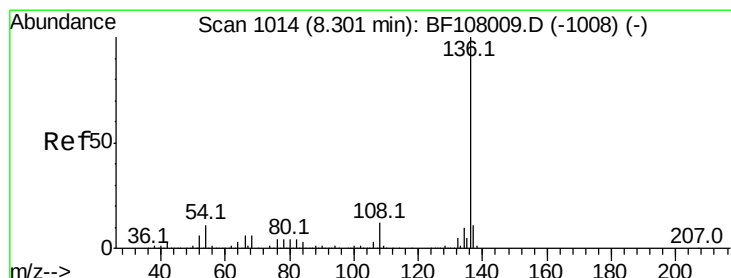
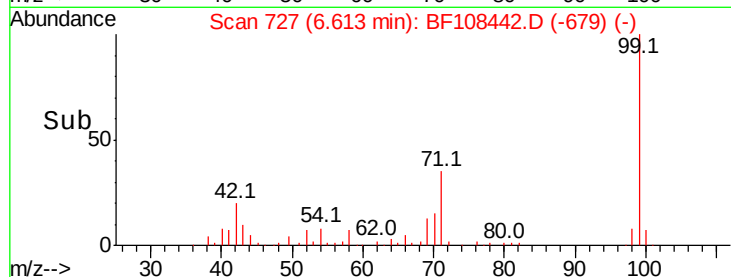
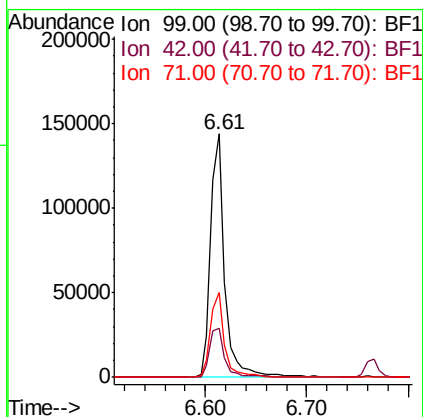
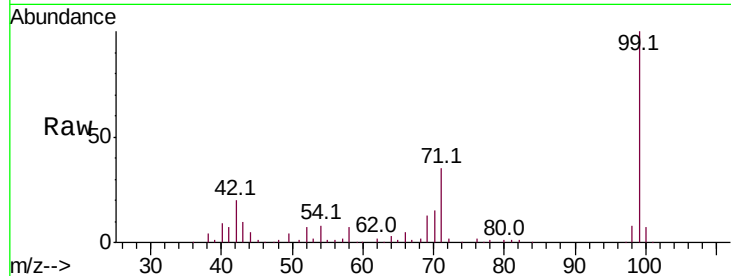
ClientSampleId :

TR-05-082118

Tot Ion	Ratio	Resp	Lower	Upper
99	100	140299		
42	20.3		14.5	21.7
71	35.0		25.4	38.0

Manual Integrations
APPROVED

Sohil
8/24/2018 12:14:30 PM



#21

Naphthalene-d8

Concen: 20.000 ng

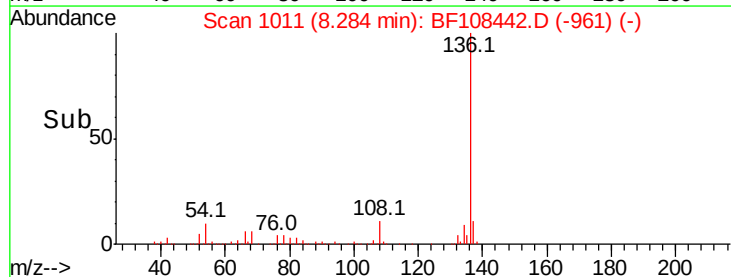
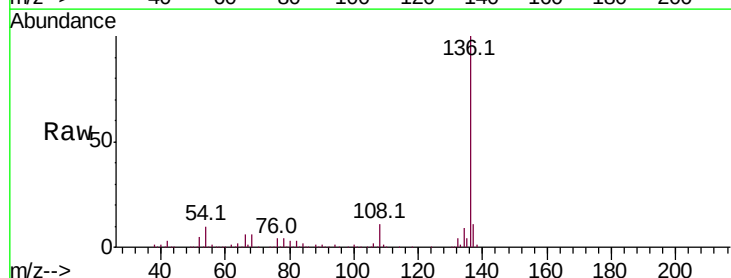
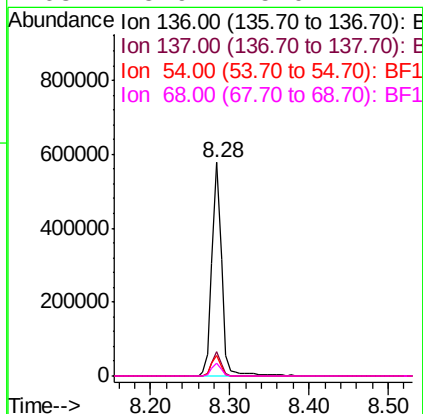
RT: 8.28 min Scan# 1011

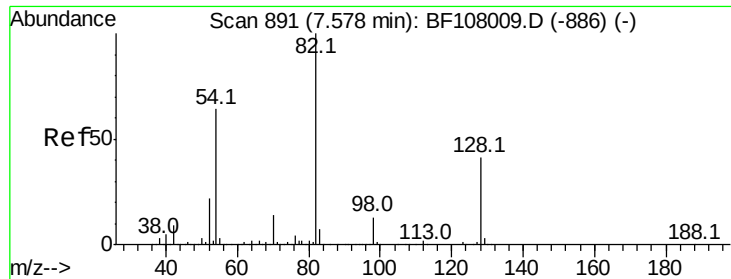
Delta R.T. -0.01 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	495720		
137	11.3		8.9	13.3
54	9.8		6.6	9.8#
68	5.9		5.0	7.4





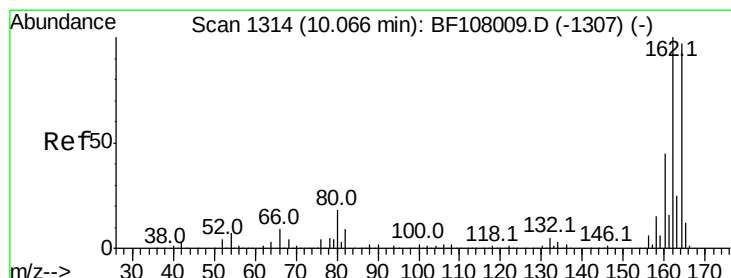
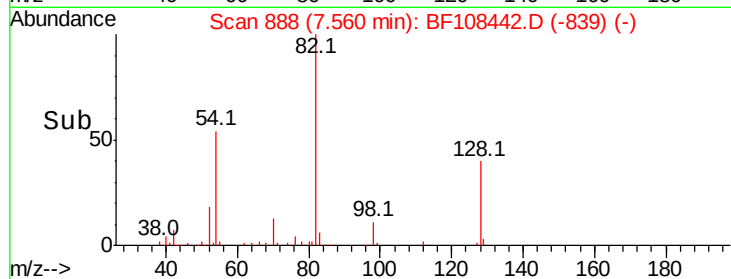
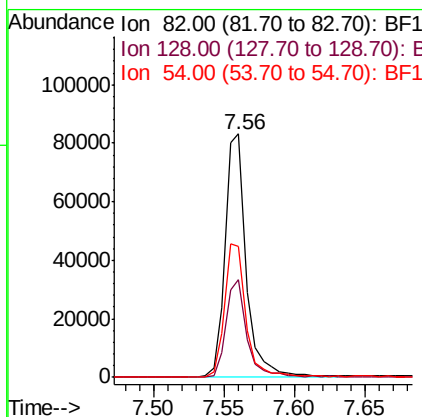
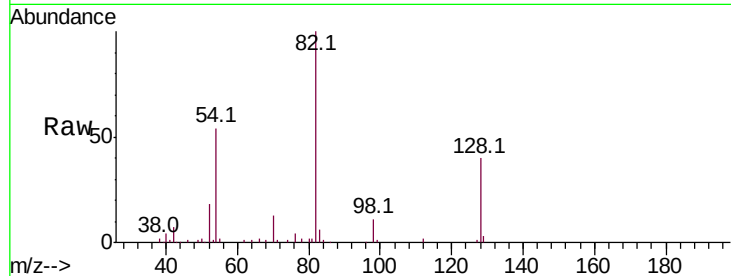
#23
Nitrobenzene-d5
Concen: 9.829 ng
RT: 7.56 min Scan# 888
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampled :
TR-05-082118

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.4	36.1	54.1
54	53.6	41.4	62.2

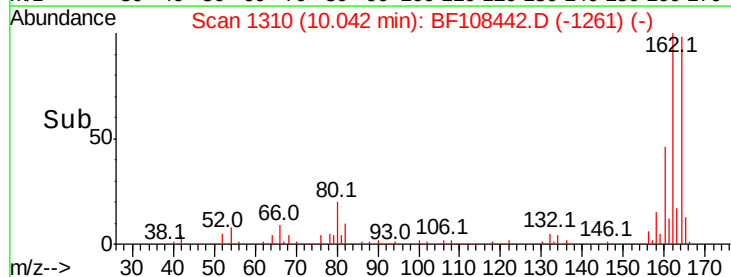
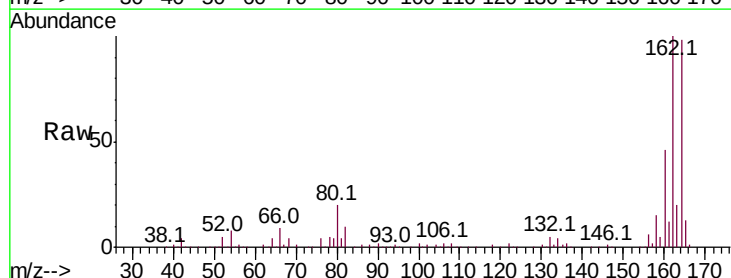
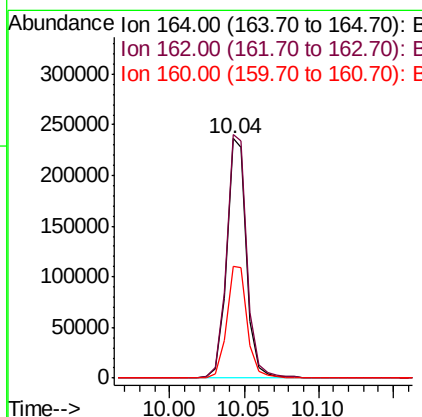
Manual Integrations
APPROVED

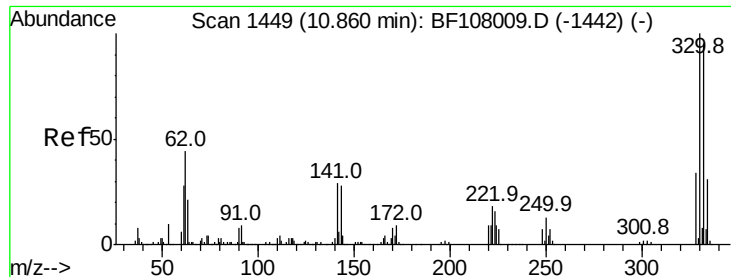
Sohil
8/24/2018 12:14:30 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.04 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	86.1	129.1
160	46.6	38.3	57.5





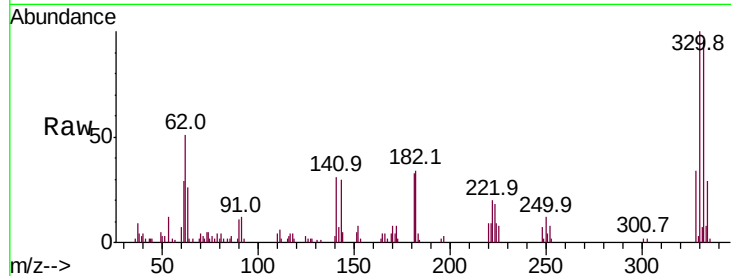
#41
 2,4,6-Tribromophenol
 Concen: 10.067 ng
 RT: 10.84 min Scan# 1445
 Delta R.T. -0.01 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-082118

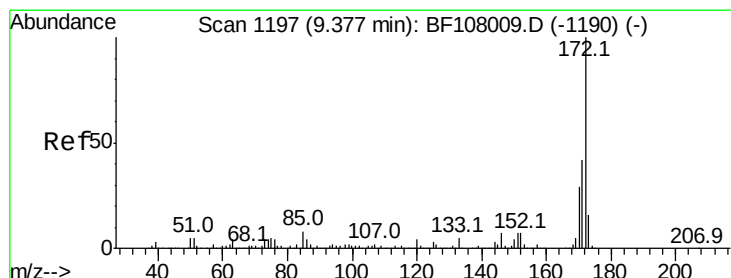
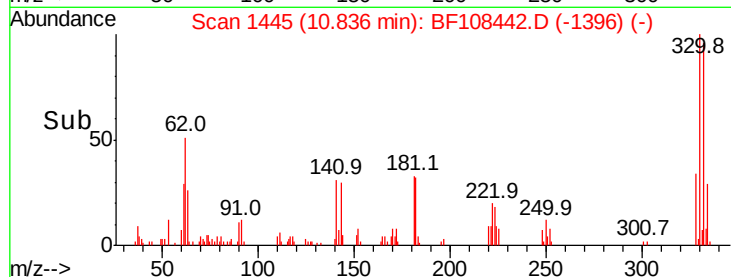
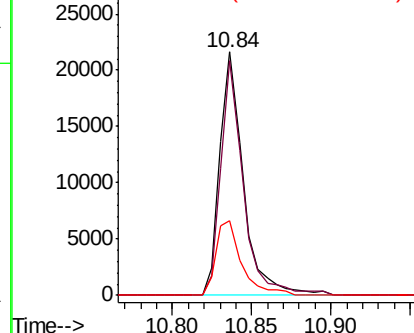
Tot Ion:	330	Resp:	22411
Ion Ratio	Lower	Upper	
330	100		
332	91.3	77.0	115.6
141	33.4	29.9	44.9

Manual Integrations
 APPROVED

Sohil
 8/24/2018 12:14:30 PM

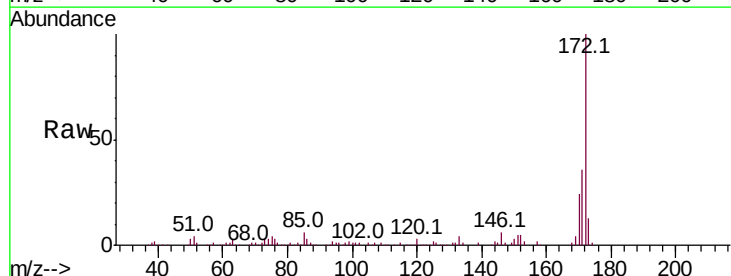


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

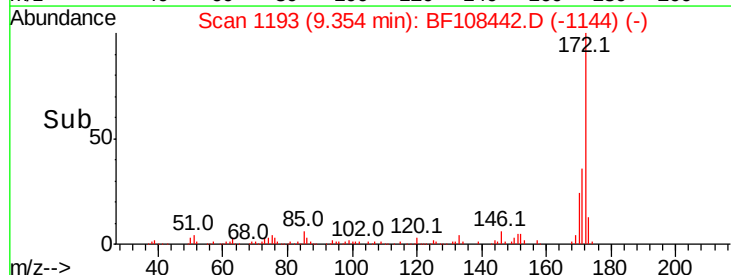
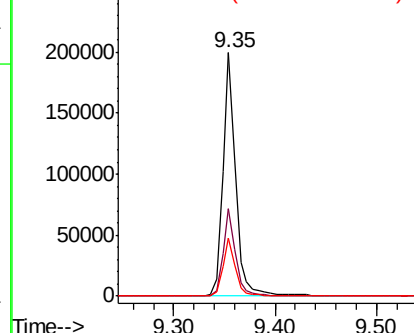


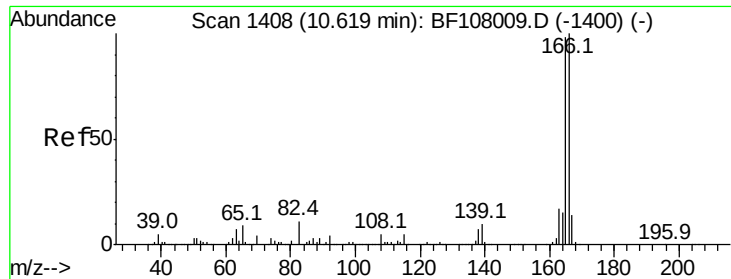
#44
 2-Fluorobiphenyl
 Concen: 12.548 ng
 RT: 9.35 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Tgt Ion:	172	Resp:	174426
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.7	44.5
170	23.6	19.6	29.4



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





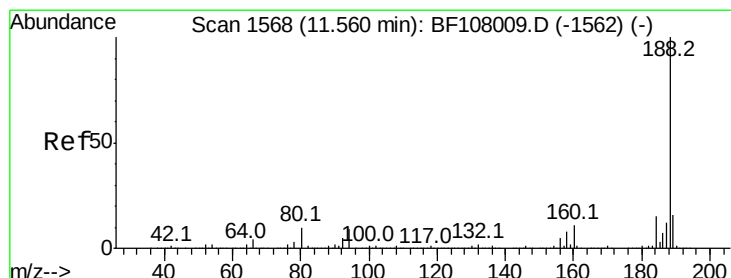
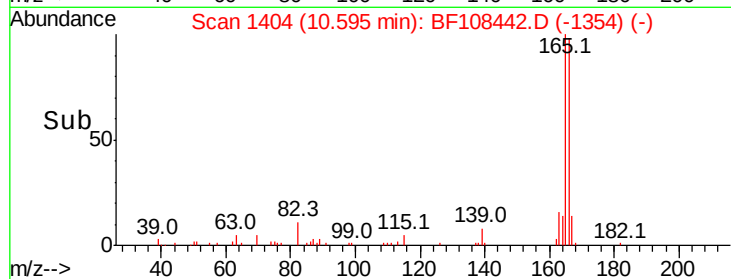
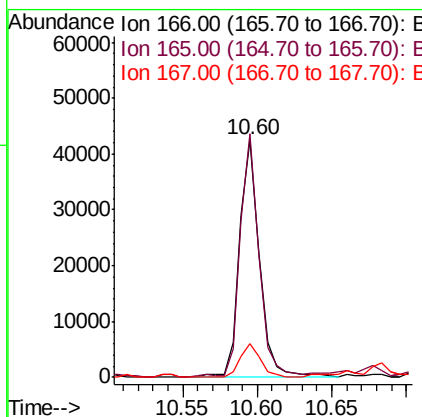
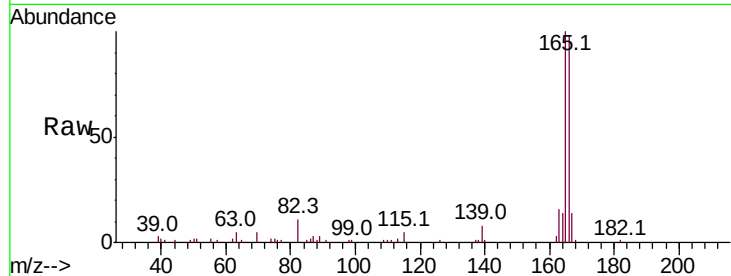
#57
 Fluorene
 Concen: 2.763 ng
 RT: 10.60 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-082118

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.5	79.8	119.8
167	14.0	10.6	16.0

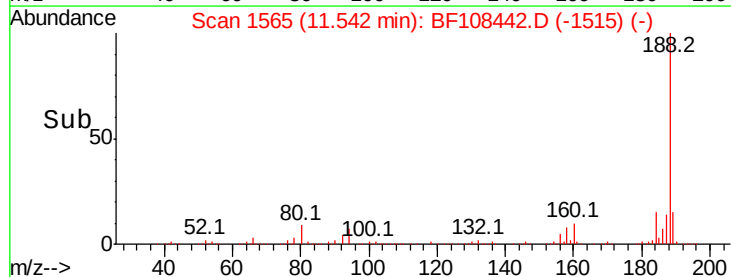
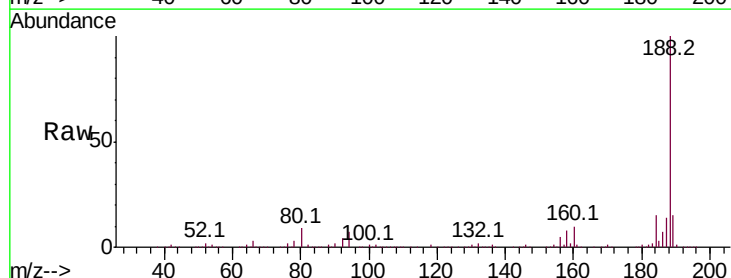
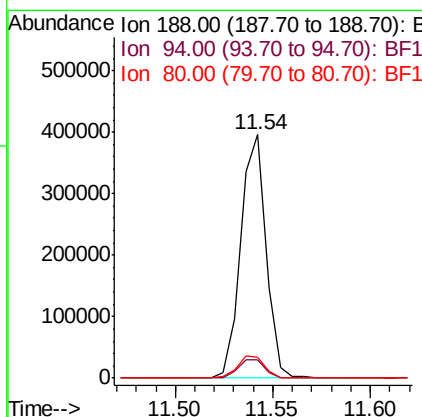
Manual Integrations
 APPROVED

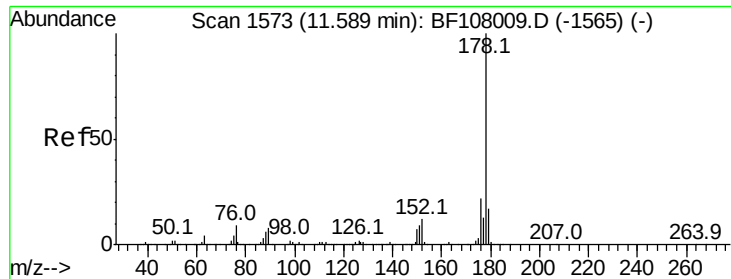
Sohil
 8/24/2018 12:14:30 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.5	8.5	12.7#
80	8.6	9.2	13.8#





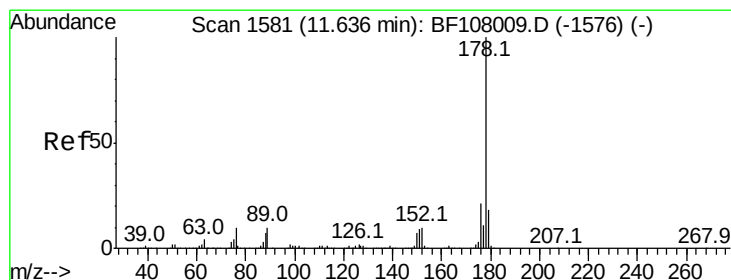
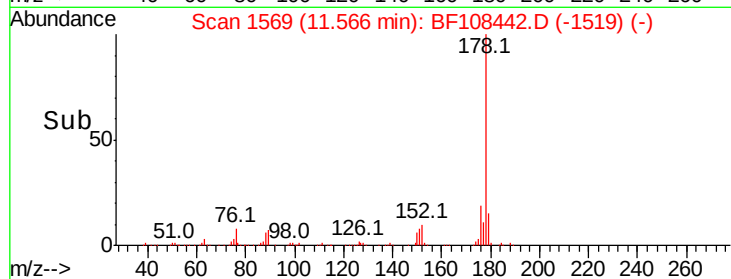
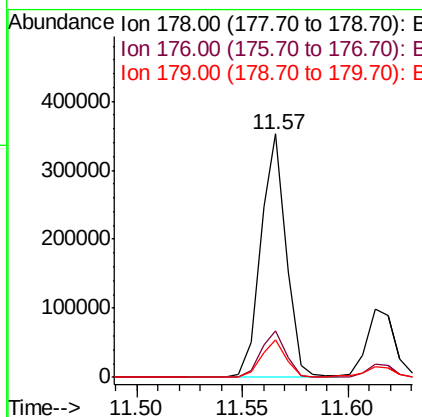
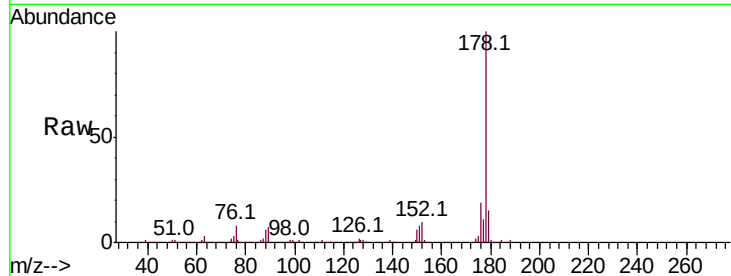
#70
Phenanthrene
Concen: 17.477 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.2	13.0	19.6

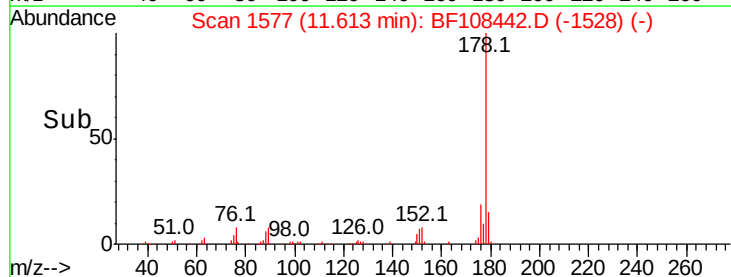
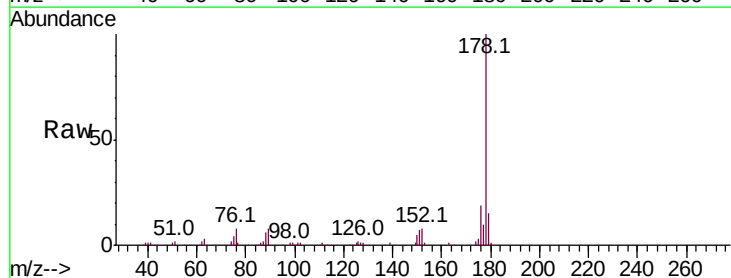
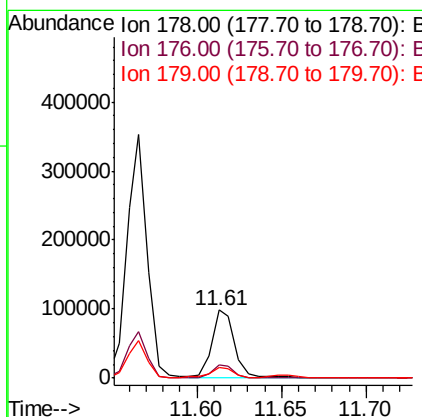
Manual Integrations
APPROVED

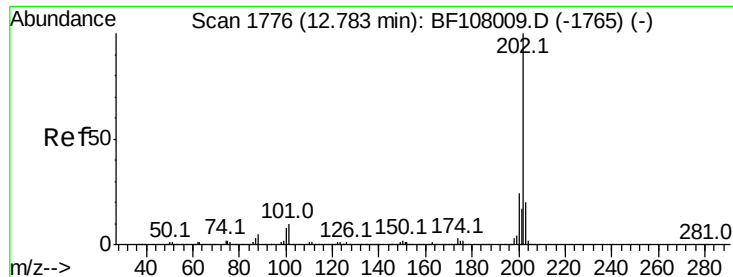
Sohil
8/24/2018 12:14:30 PM



#71
Anthracene
Concen: 5.416 ng
RT: 11.61 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.2	12.6	19.0





#74

Fluoranthene

Concen: 24.757 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Instrument :

BNA_F

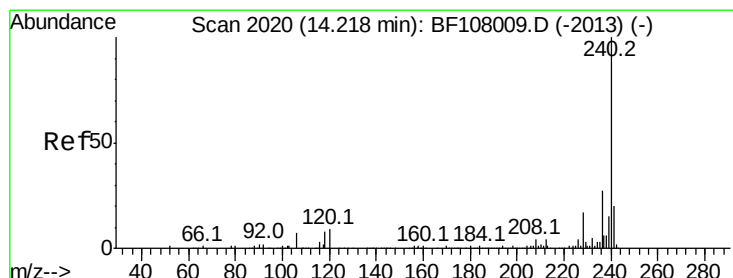
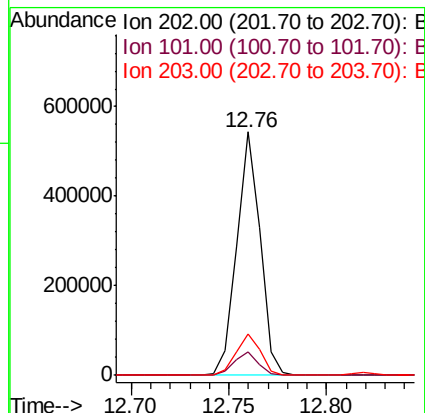
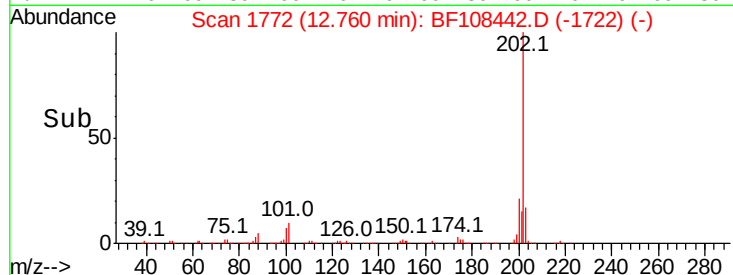
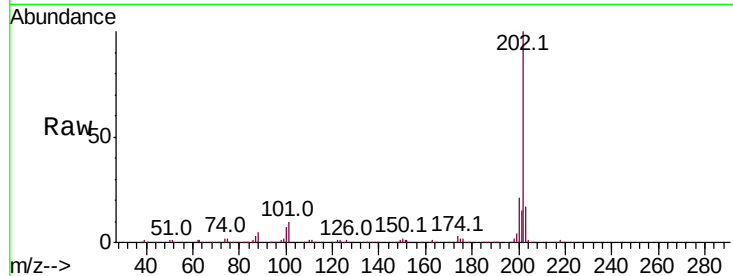
ClientSampleId :

TR-05-082118

Tot Ion:	202	Resp:	454573
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	34.1
203	17.2	0.0	38.1

Manual Integrations
APPROVED

Sohil
8/24/2018 12:14:30 PM



#75

Chrysene-d12

Concen: 20.000 ng

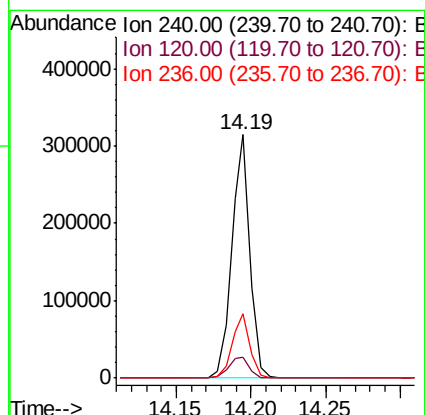
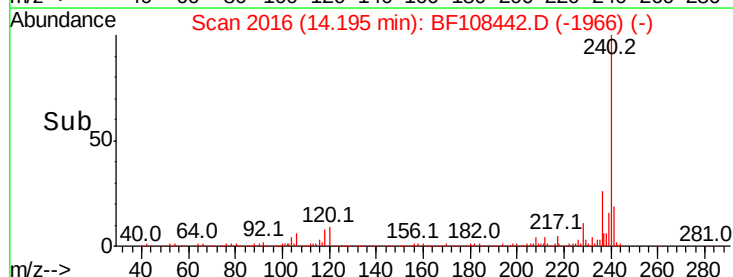
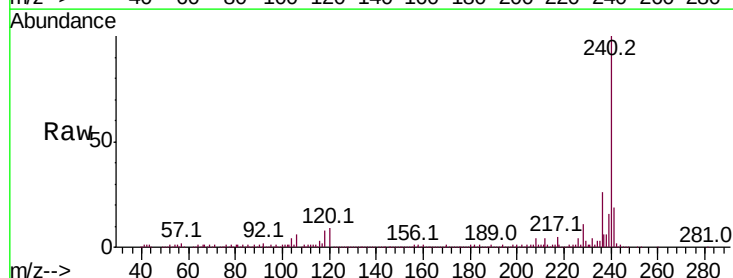
RT: 14.19 min Scan# 2016

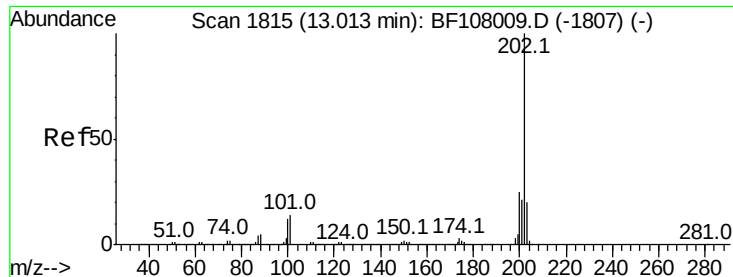
Delta R.T. -0.01 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Tgt Ion:	240	Resp:	269322
Ion Ratio	Lower	Upper	
240	100		
120	8.6	9.5	14.3#
236	26.2	20.7	31.1





#77

Pvrene

Concen: 23.830 ng

RT: 13.00 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Instrument :

BNA_F

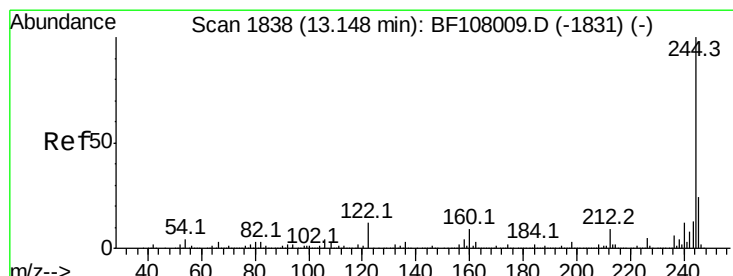
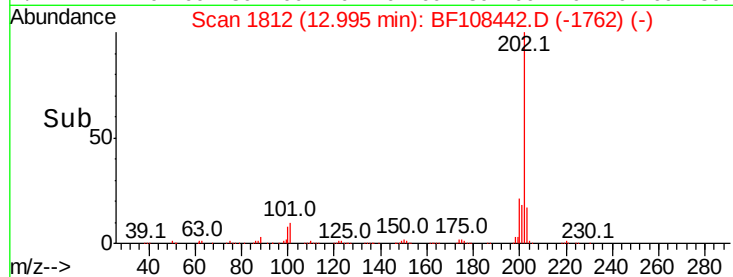
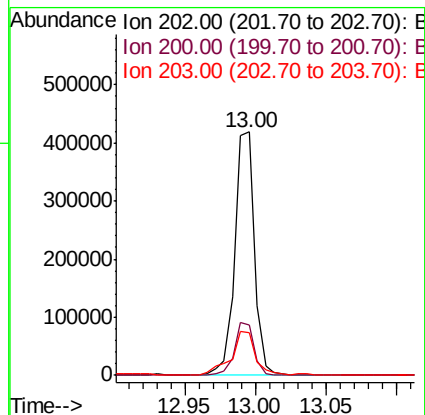
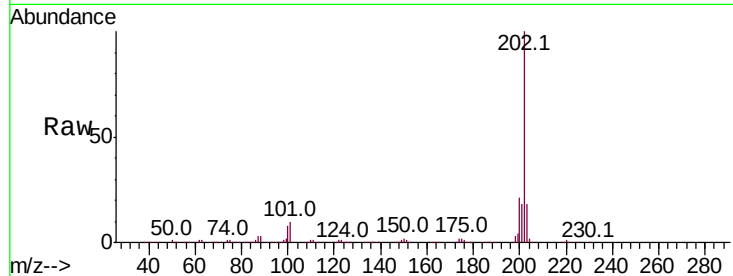
ClientSampleId :

TR-05-082118

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	20.9	17.4	26.2		
203	17.7	14.3	21.5		

Manual Integrations
APPROVED

Sohil
8/24/2018 12:14:30 PM



#78

Terphenyl-d14

Concen: 11.680 ng

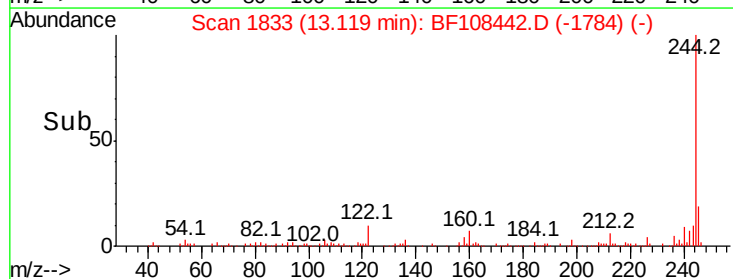
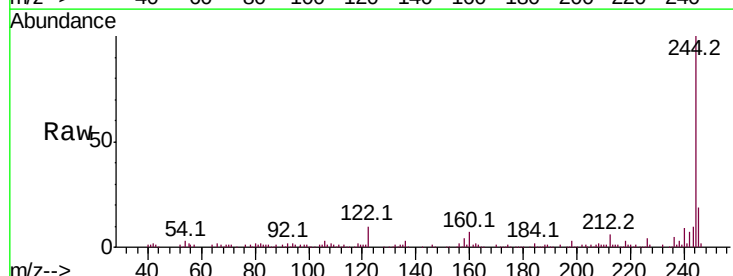
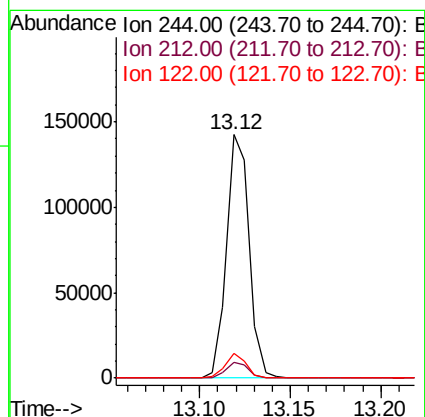
RT: 13.12 min Scan# 1833

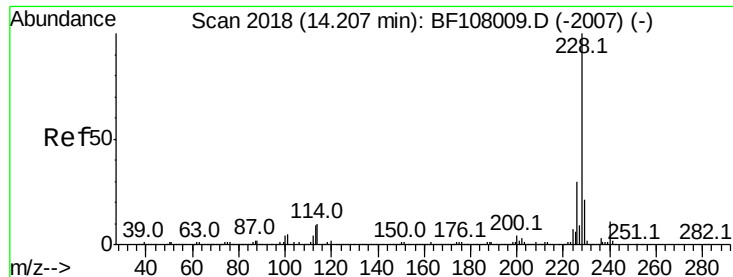
Delta R.T. -0.01 min

Lab File: BF108442.D

Acq: 24 Aug 2018 1:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	6.3	5.4	8.0		
122	10.3	11.0	16.4		





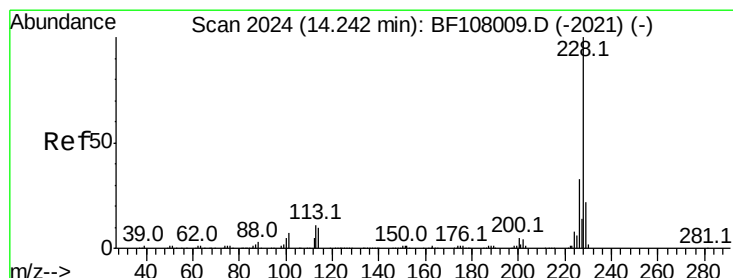
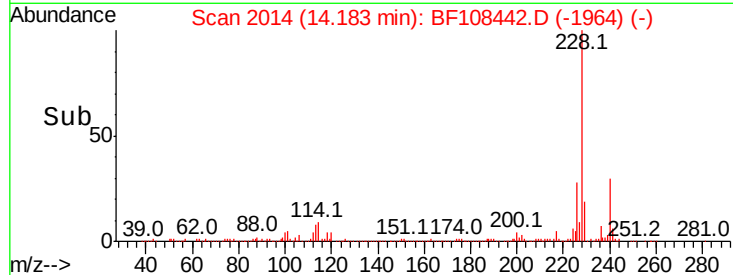
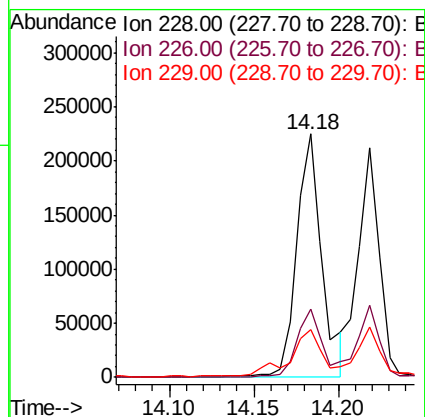
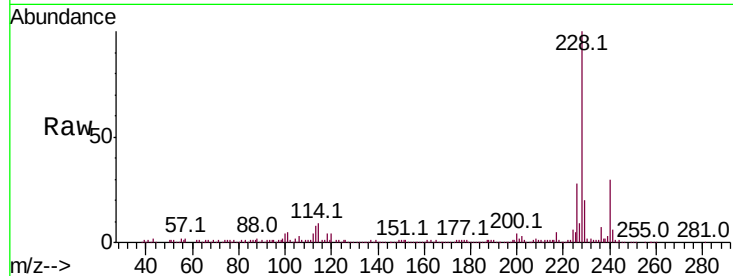
#80
Benzo(a)anthracene
Concen: 15.102 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	19.8	15.8	23.6

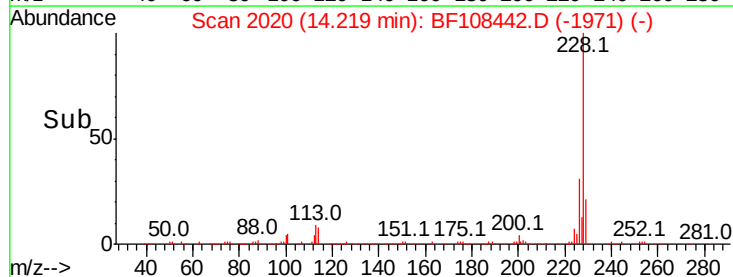
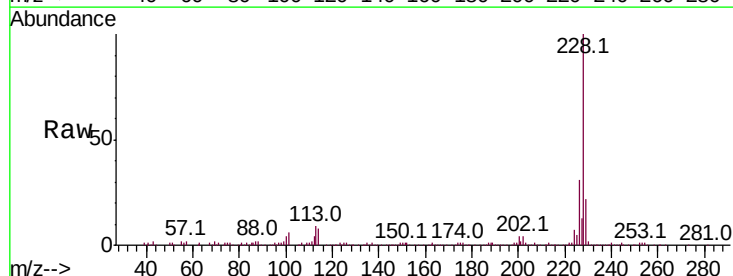
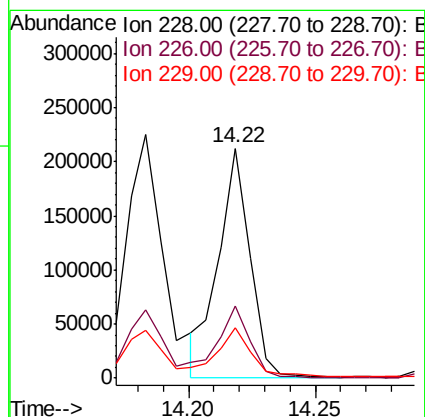
Manual Integrations
APPROVED

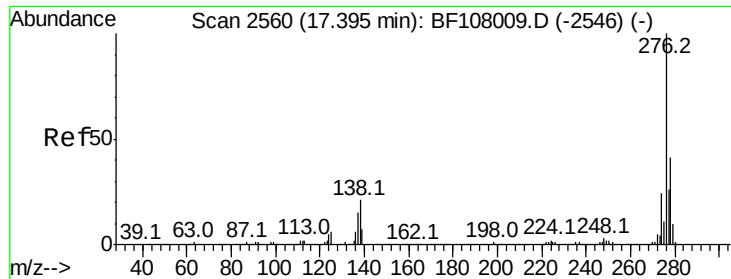
Sohil
8/24/2018 12:14:30 PM



#82
Chrysene
Concen: 12.948 ng
RT: 14.22 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	21.7	16.2	24.4





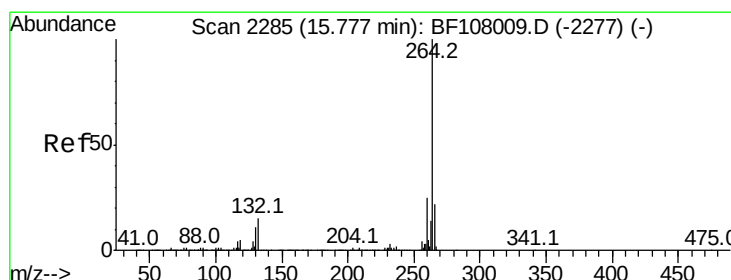
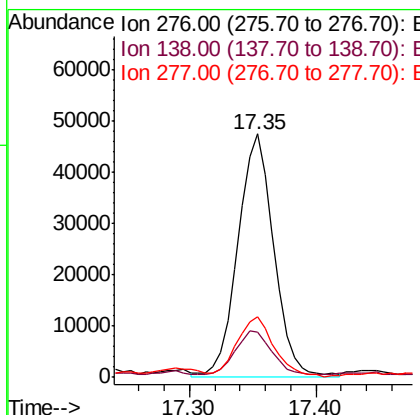
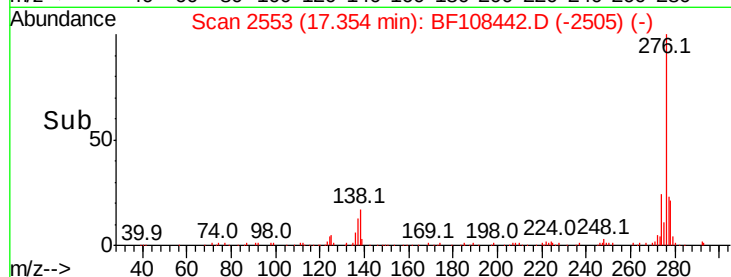
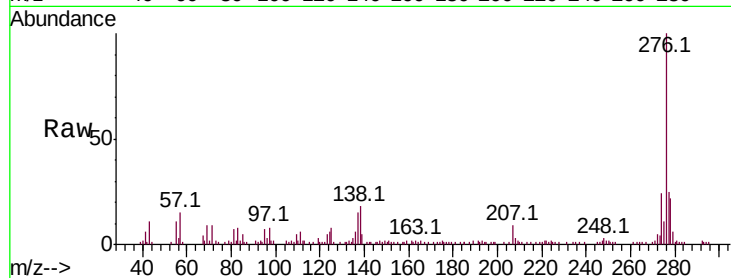
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.678 ng/ml
 RT: 17.35 min Scan# 2553
 Delta R.T. -0.02 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-082118

Tot Ion	Ratio	Lower	Upper
276	100		
138	2.0	25.0	37.6#
277	2.1	20.1	30.1#

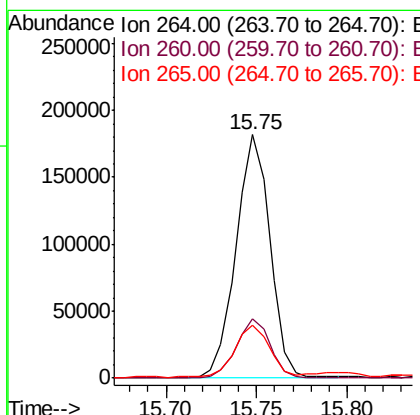
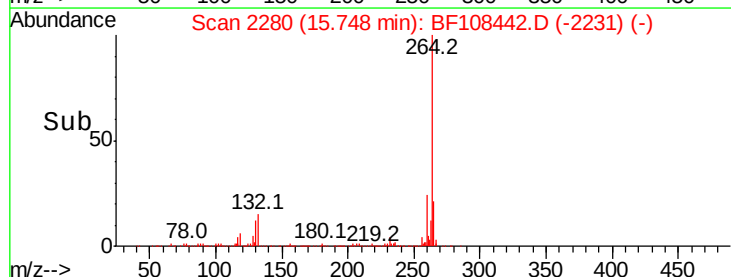
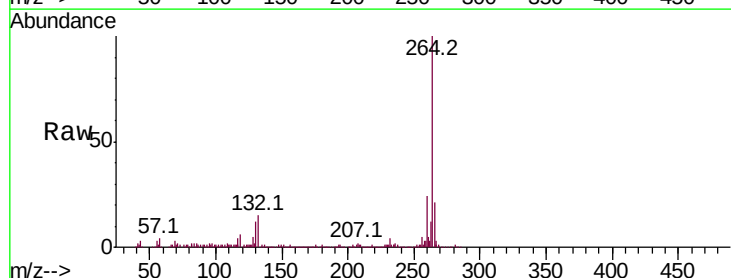
Manual Integrations
 APPROVED

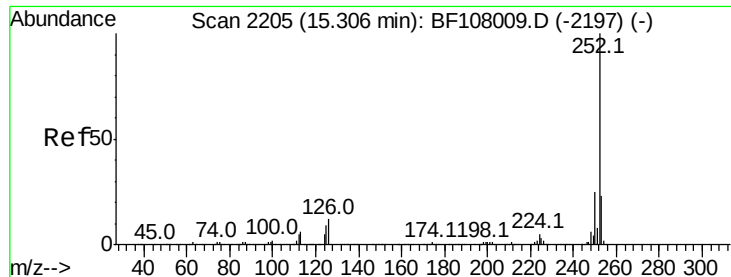
Sohil
 8/24/2018 12:14:30 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.75 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	21.5	17.5	26.3





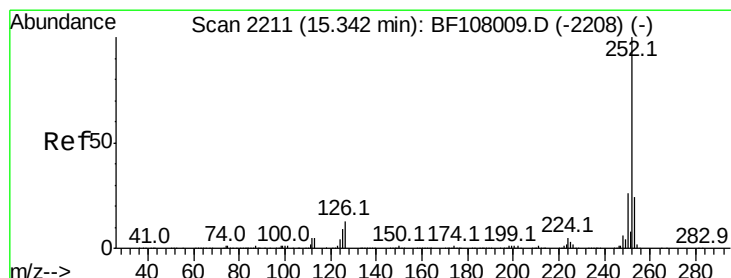
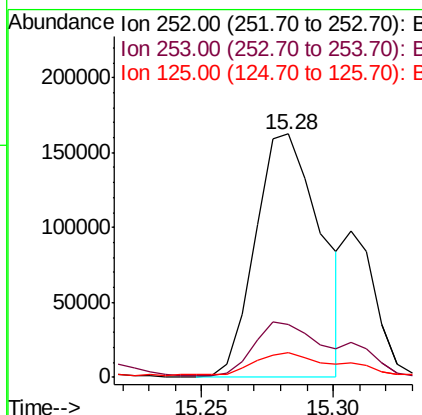
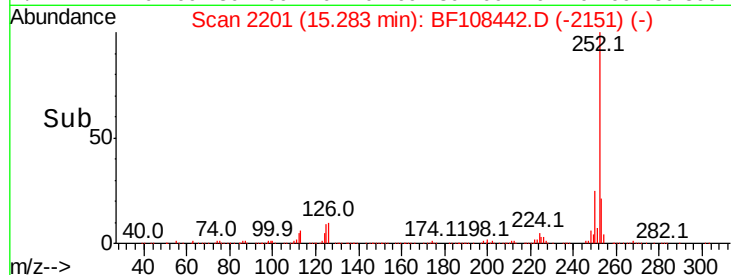
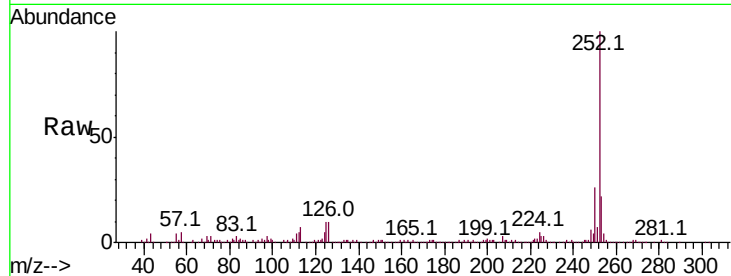
#87
Benzo(b)fluoranthene
Concen: 19.597 ng m
RT: 15.28 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.6
125	10.2	9.0	13.6

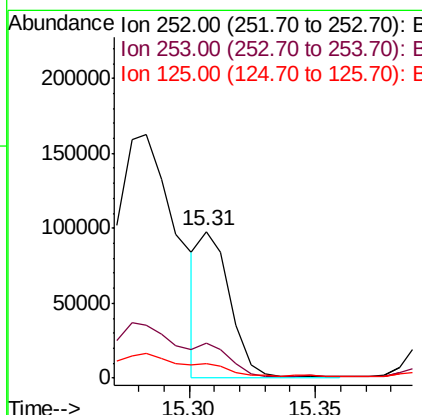
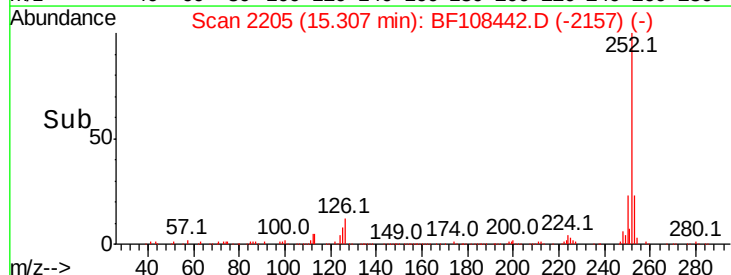
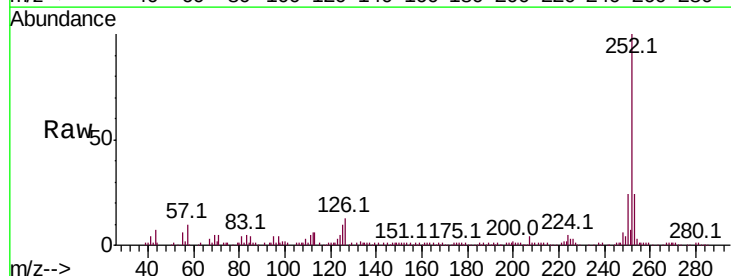
Manual Integrations
APPROVED

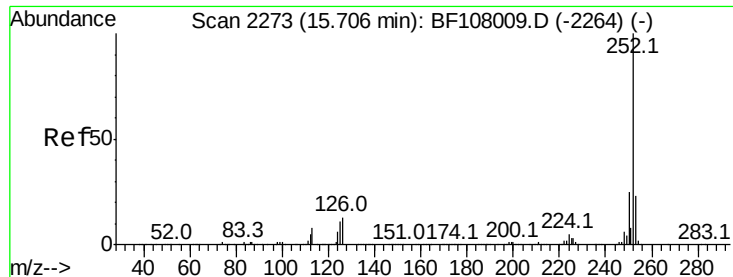
Sohil
8/24/2018 12:14:30 PM



#88
Benzo(k)fluoranthene
Concen: 6.370 ng m
RT: 15.31 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	9.8	10.2	15.2#





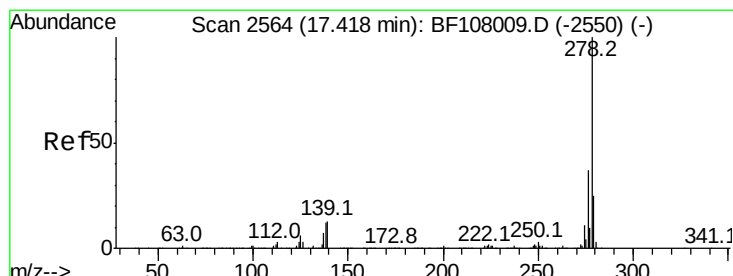
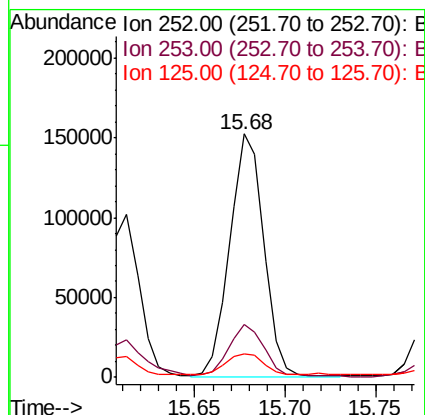
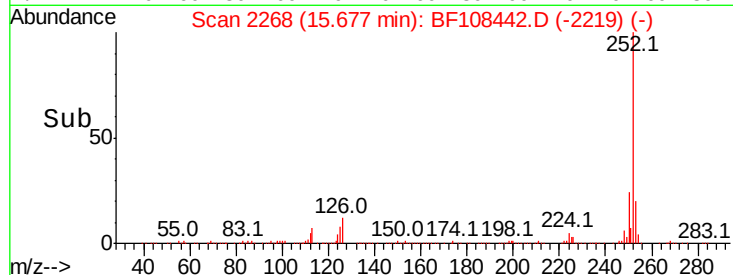
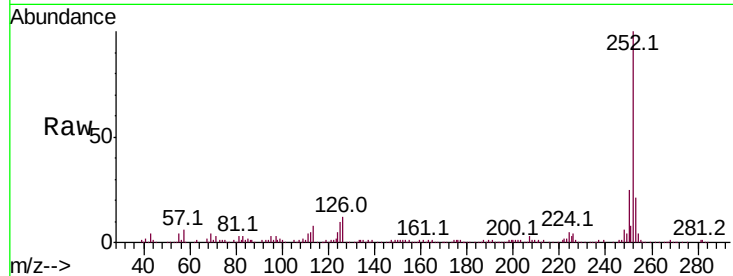
#89
Benzo(a)pyrene
Concen: 15.616 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Instrument :
BNA_F
ClientSampleId :
TR-05-082118

Tot Ion	Ratio	Resp	Lower	Upper
252	100	198392		
253	21.5		17.1	25.7
125	9.9		9.8	14.6

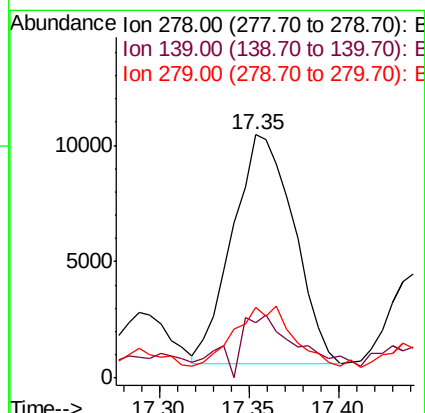
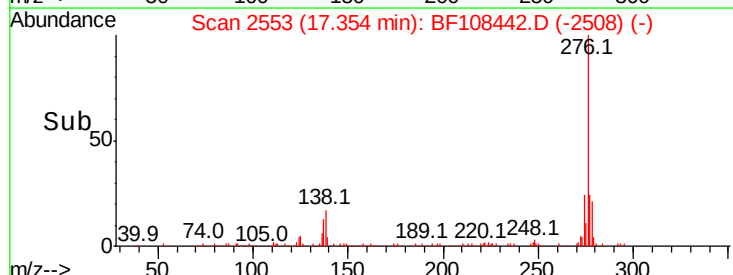
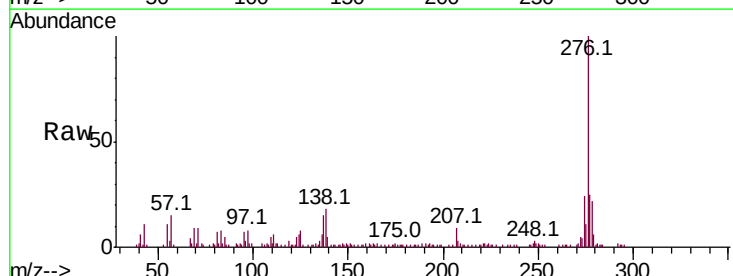
Manual Integrations
APPROVED

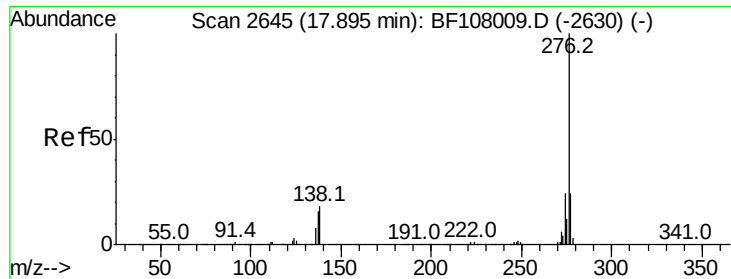
Sohil
8/24/2018 12:14:30 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.234 ng m
RT: 17.35 min Scan# 2553
Delta R.T. -0.04 min
Lab File: BF108442.D
Acq: 24 Aug 2018 1:05

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	23487		
139	23.0		15.9	23.9
279	28.9		19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 8.283 ng
 RT: 17.85 min Scan# 2637
 Delta R.T. -0.02 min
 Lab File: BF108442.D
 Acq: 24 Aug 2018 1:05

Instrument :
 BNA_F
 ClientSampled :
 TR-05-082118

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	17.5	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 8/24/2018 12:14:30 PM

