

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
 Data File : BF108313.D
 Acq On : 21 Aug 2018 1:43
 Operator : JU/SJ
 Sample : J4282-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-081718

Manual Integrations
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 8/21/2018 1:43:34 PM

Quant Time: Aug 21 05:26:01 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 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	140523	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	489135	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	203985	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	361559	20.00	ng	0.00
75) Chrysene-d12	14.22	240	235485	20.00	ng	0.00
86) Perylene-d12	15.79	264	190822	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	464080	59.79	ng	0.01
7) Phenol-d6	6.64	99	590330	57.23	ng	0.00
23) Nitrobenzene-d5	7.58	82	350298	39.96	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	109588	53.86	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	622999	49.03	ng	0.00
78) Terphenyl-d14	13.15	244	533988	57.66	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.32	128	144012	6.474	ng	99
37) 2-Methylnaphthalene	9.01	142	53590	3.405	ng	97
48) Acenaphthylene	9.92	152	101085	5.379	ng	99
49) Dimethylphthalate	9.77	163	28521	2.007	ng	# 99
51) Acenaphthene	10.10	154	140457	12.203	ng	98
54) Dibenzofuran	10.27	168	152476	9.144	ng	98
57) Fluorene	10.61	166	217691	16.491	ng	98
70) Phenanthrene	11.60	178	1851427	108.566	ng	98
71) Anthracene	11.64	178	698739	39.977	ng	99
72) Carbazole	11.79	167	132271	8.518	ng	99
74) Fluoranthene	12.80	202	3043917	163.548	ng	96
77) Pyrene	13.03	202	2648186	177.627	ng	95
80) Benzo(a)anthracene	14.21	228	1287566	95.273	ng	97
82) Chrysene	14.25	228	992446	80.101	ng	96
85) Indeno(1,2,3-cd)pyrene	17.42	276	469030	43.690	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	1211076m	106.212	ng	
88) Benzo(k)fluoranthene	15.35	252	358737m	34.225	ng	
89) Benzo(a)pyrene	15.72	252	816889	80.005	ng	95
90) Dibenzo(a,h)anthracene	17.43	278	126525m	14.977	ng	
91) Benzo(a,h,i)perylene	17.92	276	434243	52.200	ng	# 89

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

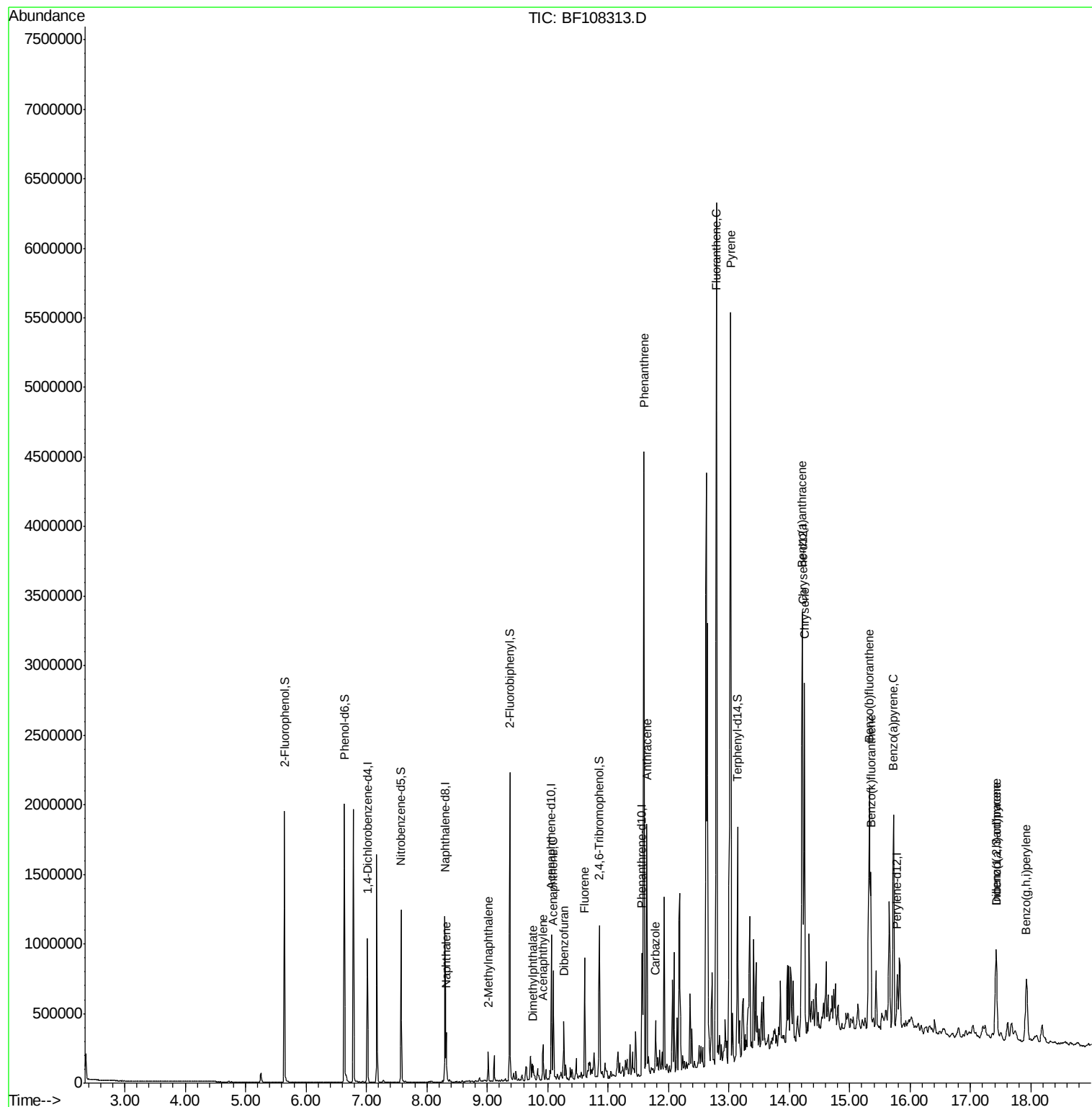
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
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QLast Update : Wed Aug 08 12:24:24 2018
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#1

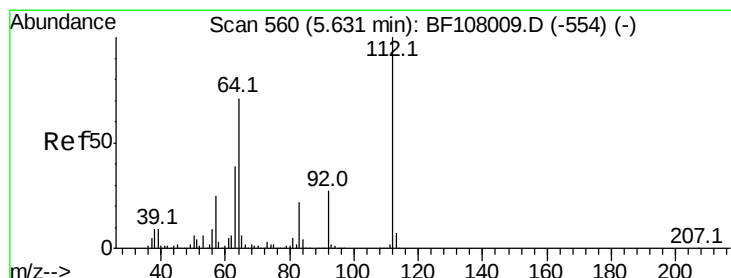
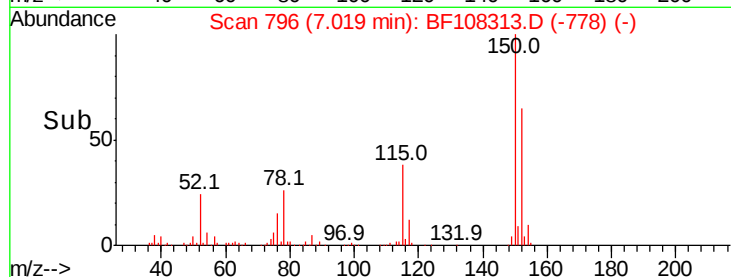
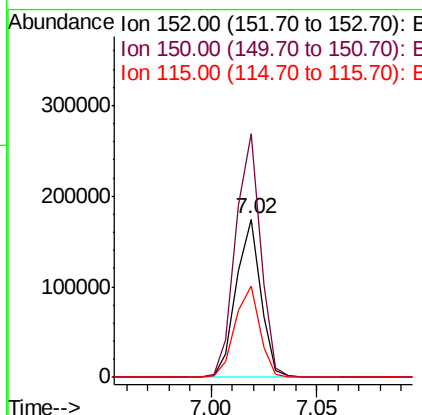
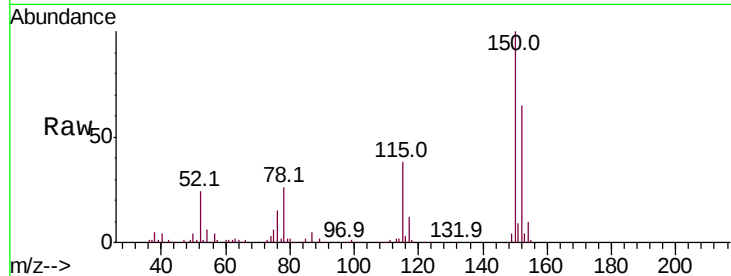
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.6	186.8
115	58.1	50.1	75.1

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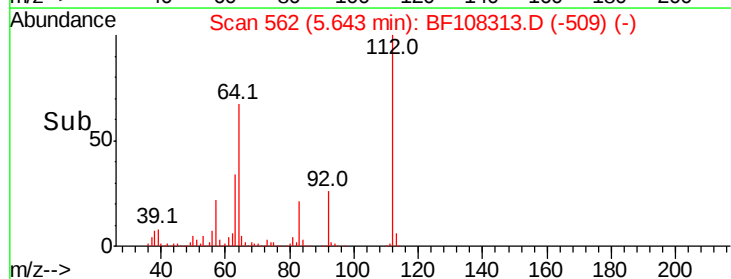
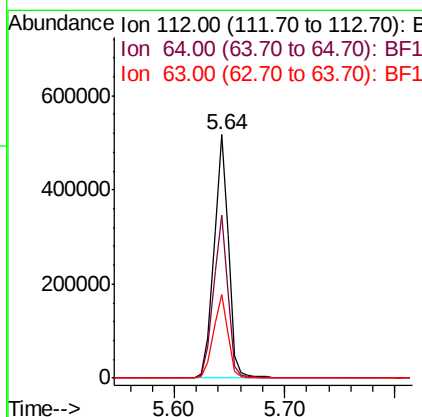
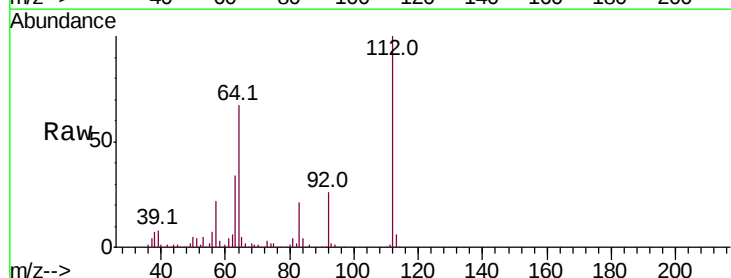
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#5

2-Fluorophenol
Concen: 59.791 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.7	47.9	71.9
63	34.5	23.7	35.5





#7

Phenol-d6

Concen: 57.234 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

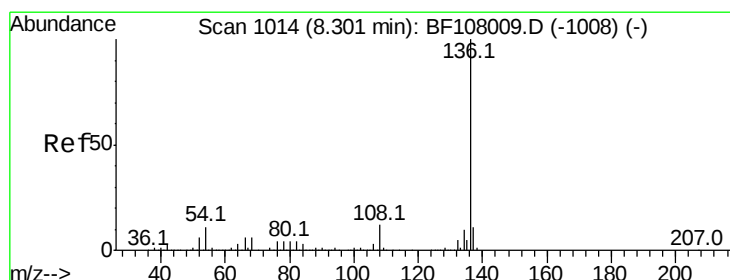
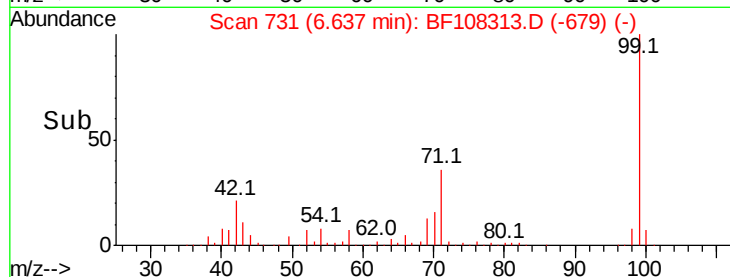
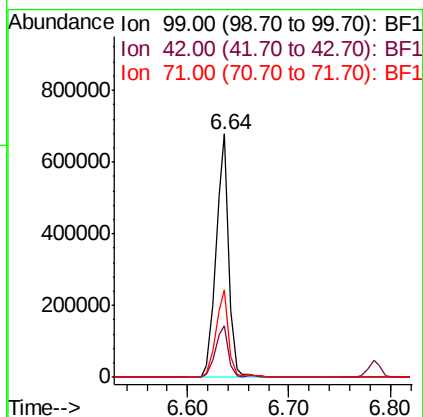
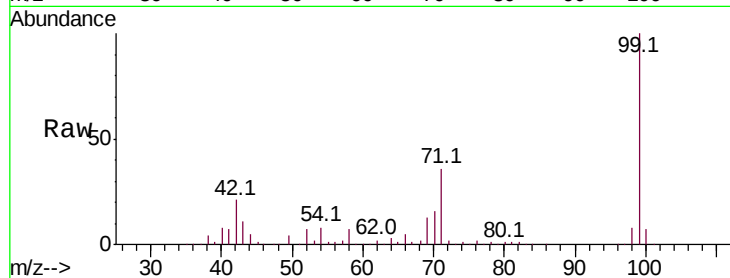
ClientSampled :

SU-04-081718

Tot Ion:	99	Resp:	590330
Ion Ratio	Lower	Upper	
99	100		
42	21.4	14.5	21.7
71	35.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

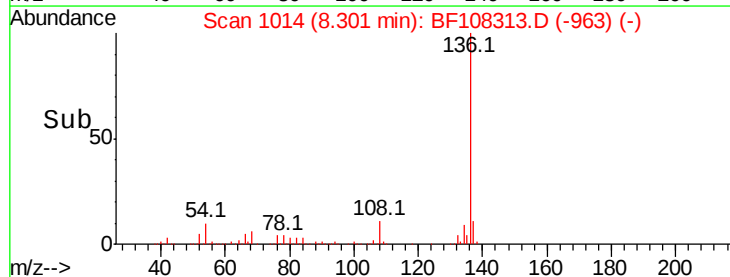
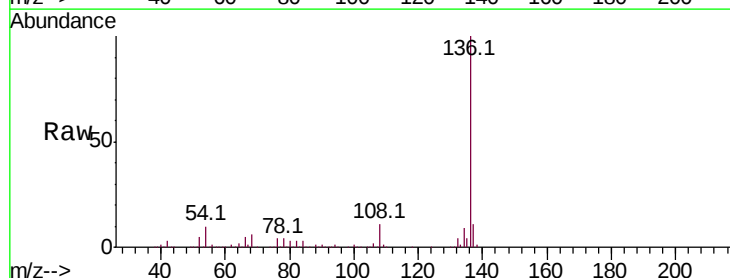
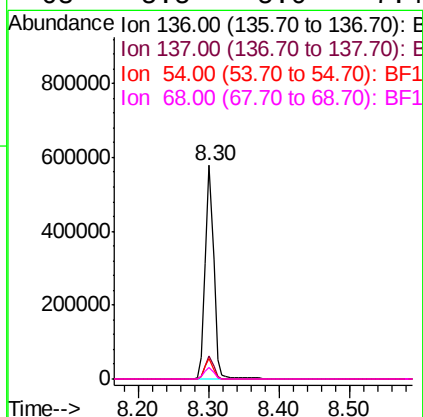
RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Tgt Ion:	136	Resp:	489135
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.8	6.6	9.8
68	5.5	5.0	7.4





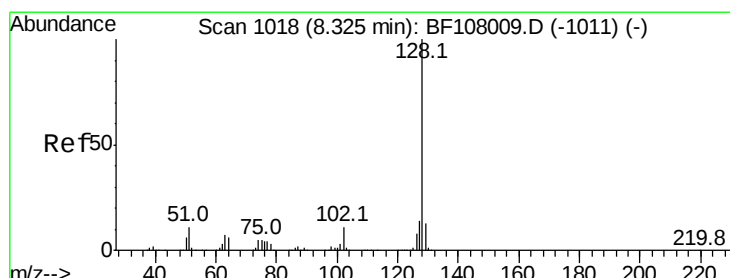
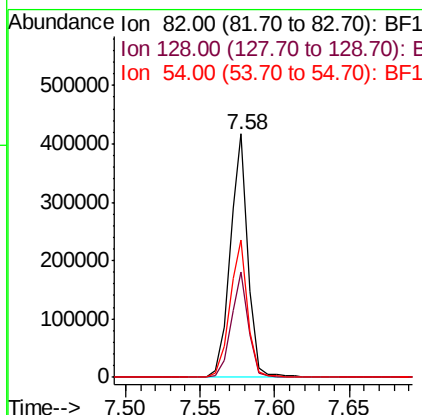
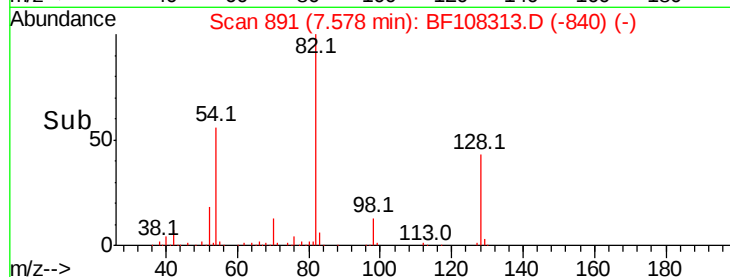
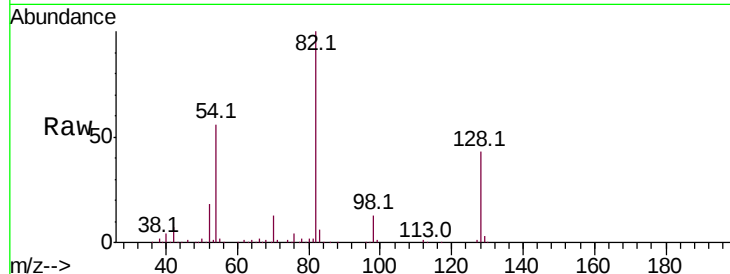
#23
 Nitrobenzene-d5
 Concen: 39.963 ng
 RT: 7.58 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-081718

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.3	36.1	54.1	
54	56.3	41.4	62.2	

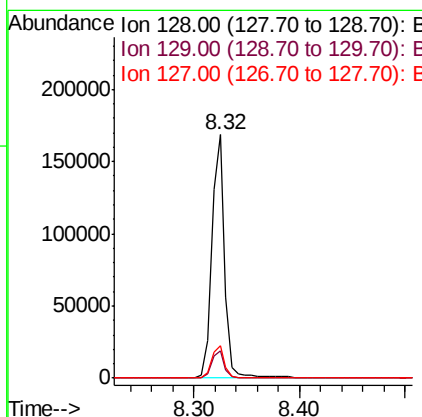
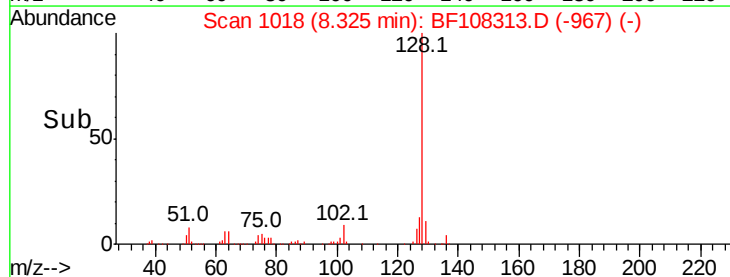
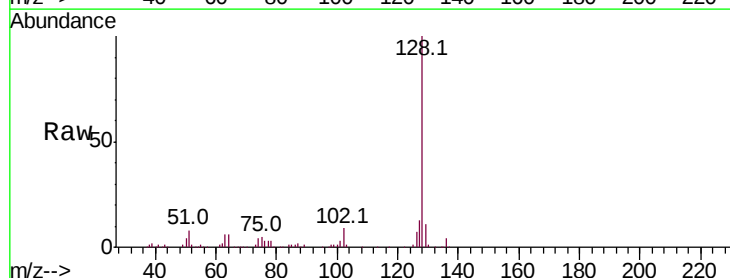
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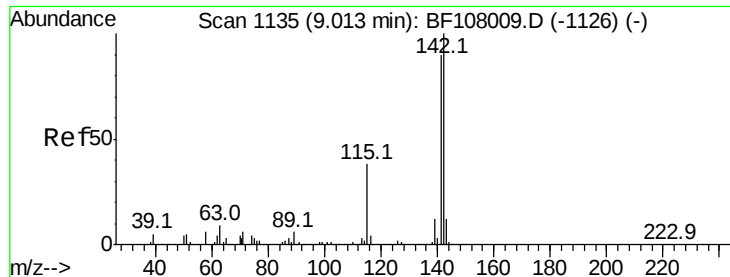
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#31
 Naphthalene
 Concen: 6.474 ng
 RT: 8.32 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.0	8.8	13.2	
127	13.1	10.9	16.3	





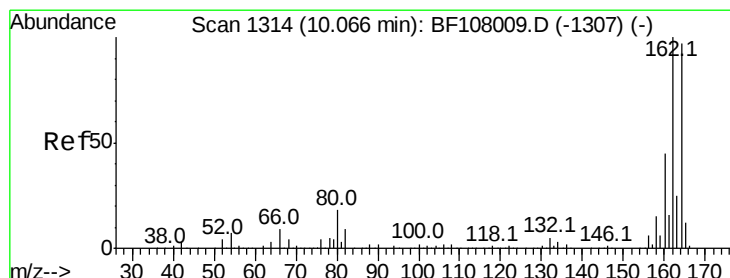
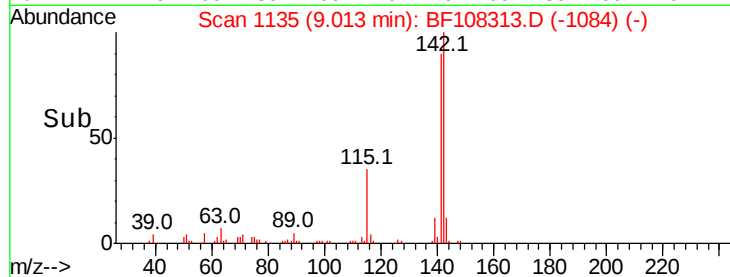
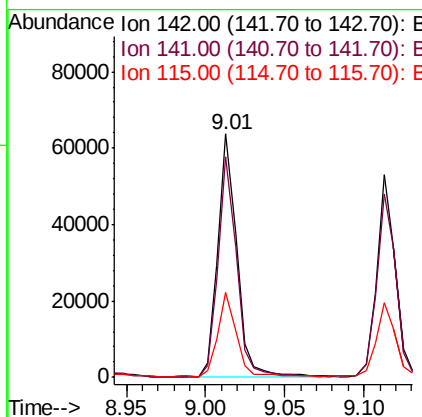
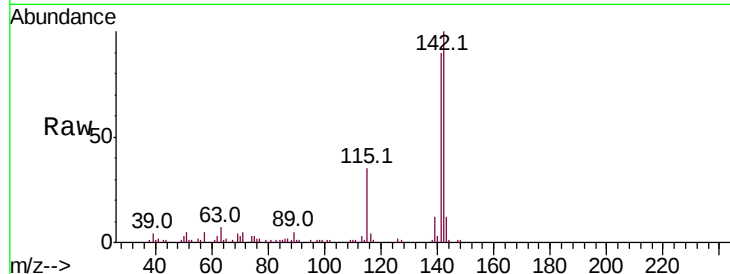
#37
2-Methylnaphthalene
Concen: 3.405 ng
RT: 9.01 min Scan# 1135
Delta R.T. 0.00 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.8	106.2
115	35.0	26.1	39.1

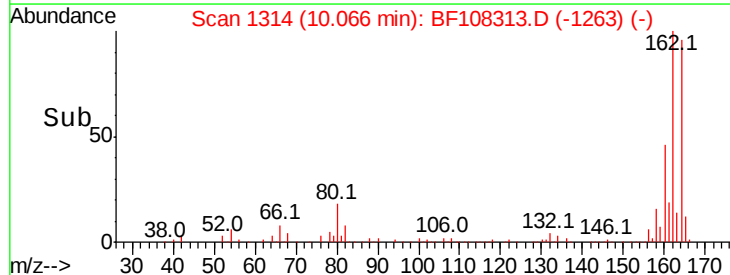
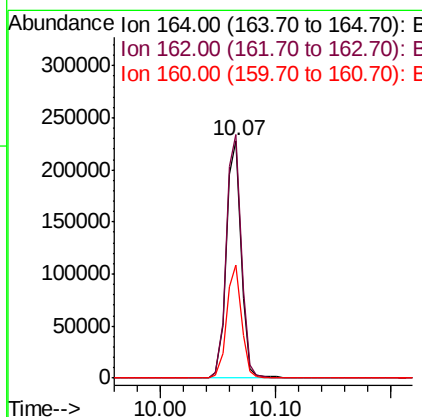
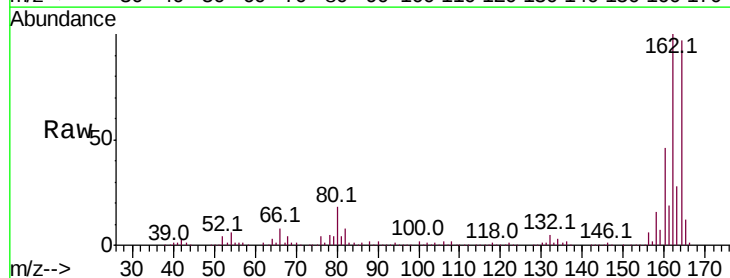
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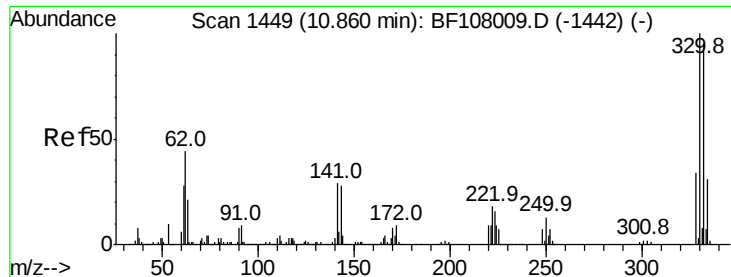
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.07 min Scan# 1314
Delta R.T. 0.00 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	86.1	129.1
160	47.4	38.3	57.5





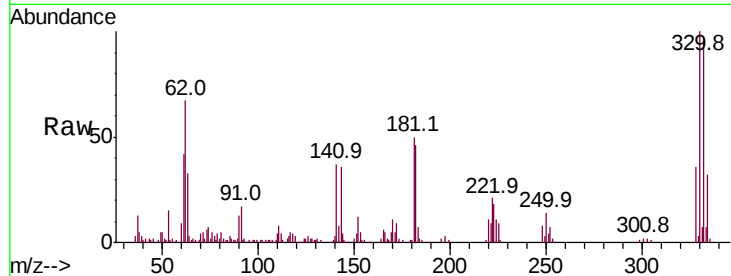
#41
 2,4,6-Tribromophenol
 Concen: 53.860 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-081718

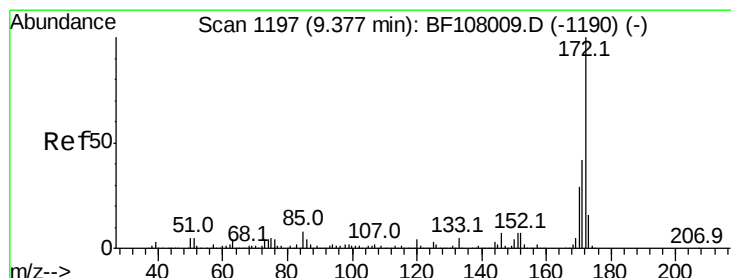
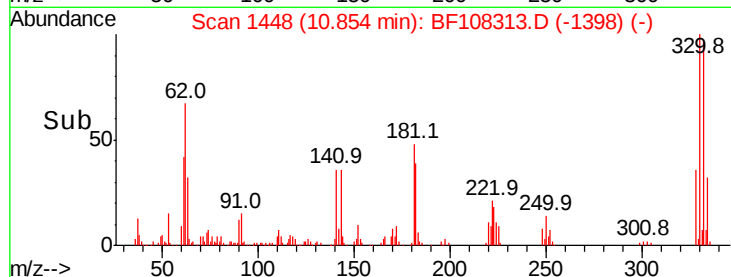
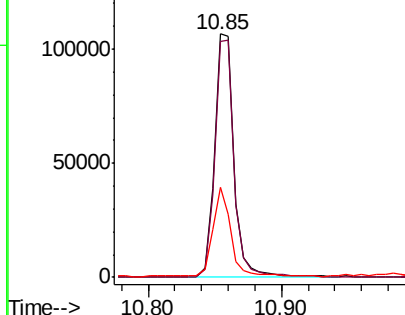
Tot Ion	Ratio	Resp	Lower	Upper
330	100	109588		
332	96.8	77.0	115.6	
141	34.9	29.9	44.9	

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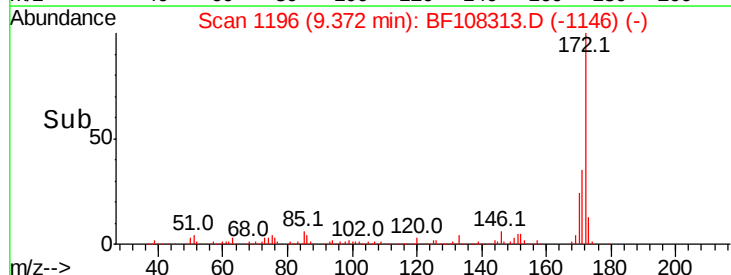
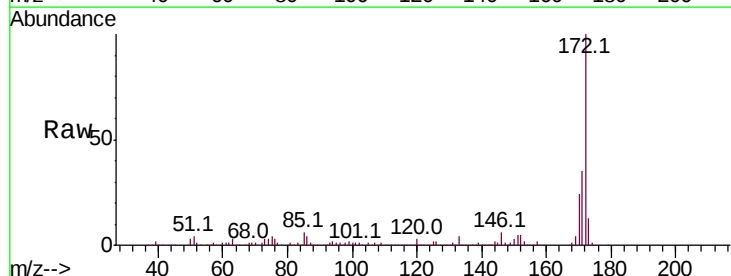
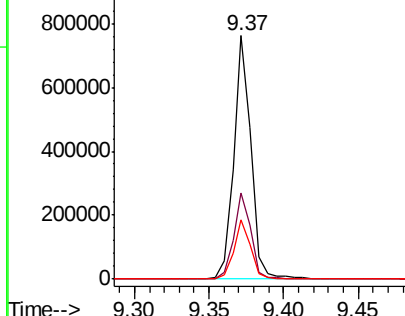
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

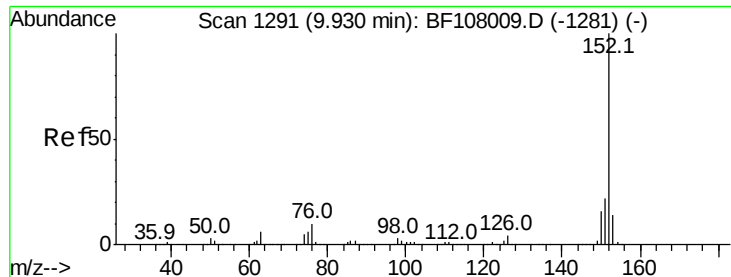


#44
 2-Fluorobiphenyl
 Concen: 49.033 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	622999		
171	35.3	29.7	44.5	
170	24.4	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





#48

Acenaphthylene

Concen: 5.379 ng

RT: 9.92 min Scan# 1290

Delta R.T. -0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

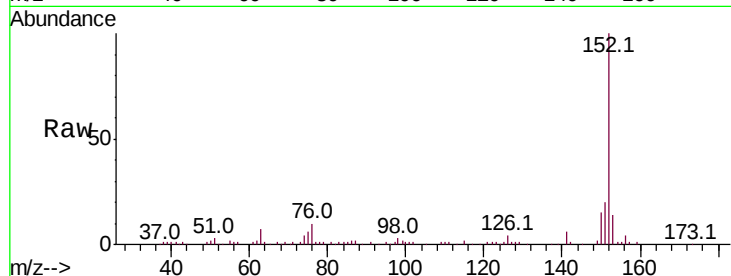
ClientSampleId :

SU-04-081718

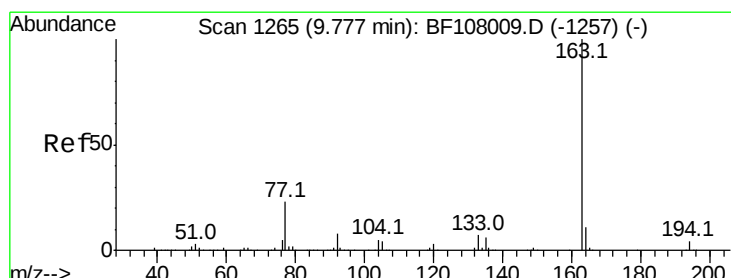
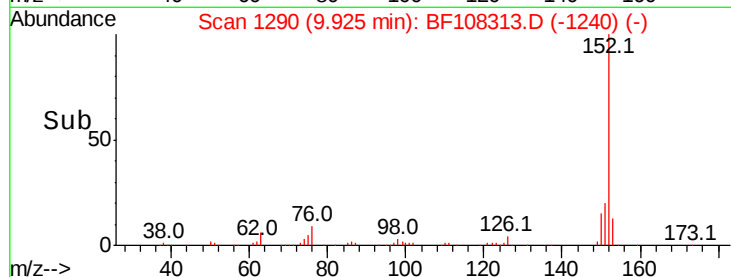
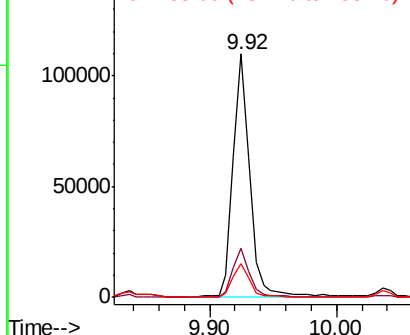
Tot Ion:	152	Resp:	101085
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	14.0	10.7	16.1

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.007 ng

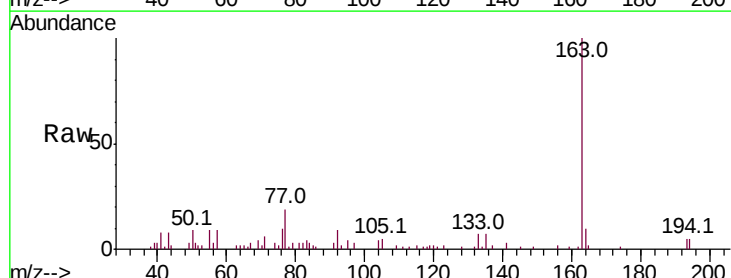
RT: 9.77 min Scan# 1263

Delta R.T. -0.01 min

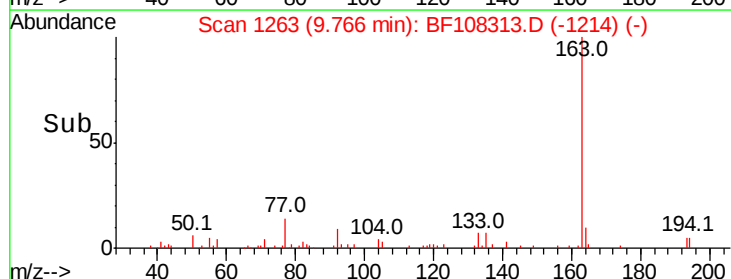
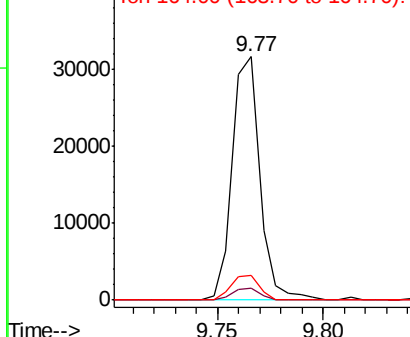
Lab File: BF108313.D

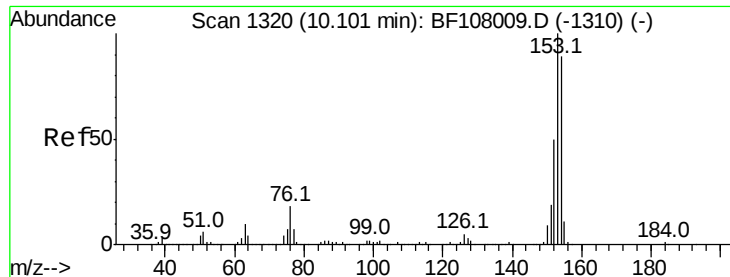
Acq: 21 Aug 2018 1:43

Tgt Ion:	163	Resp:	28521
Ion Ratio	Lower	Upper	
163	100		
194	4.8	2.7	4.1#
164	10.3	8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 12.203 ng

RT: 10.10 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

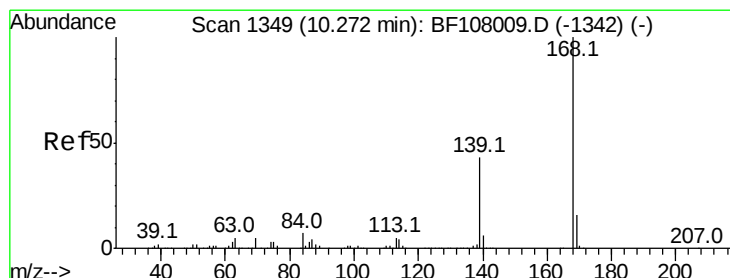
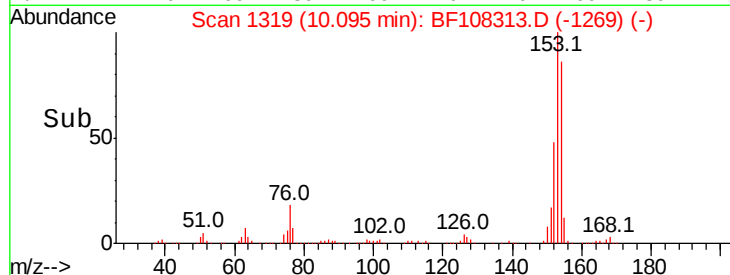
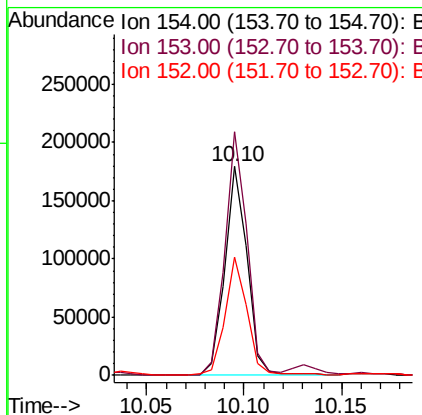
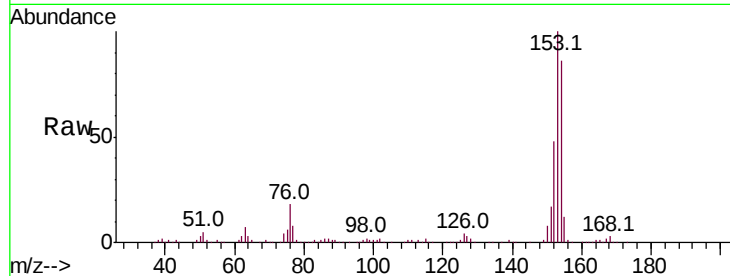
ClientSampleId :

SU-04-081718

Tot Ion:	154	Resp:	140457
Ion Ratio	Lower	Upper	
154	100		
153	116.5	91.2	136.8
152	56.3	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 9.144 ng

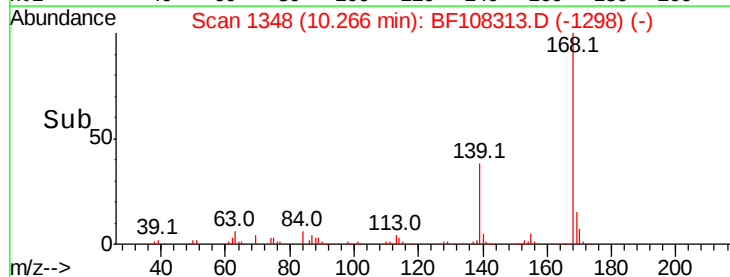
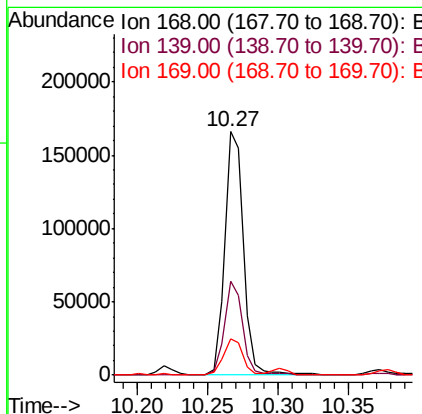
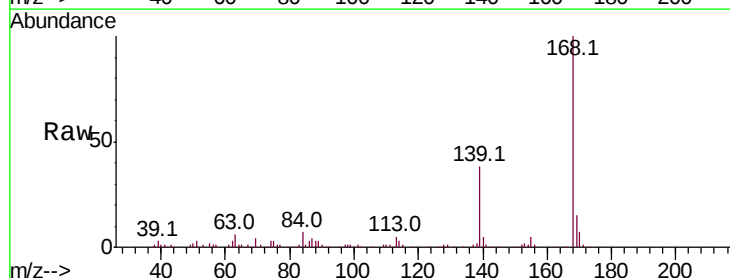
RT: 10.27 min Scan# 1348

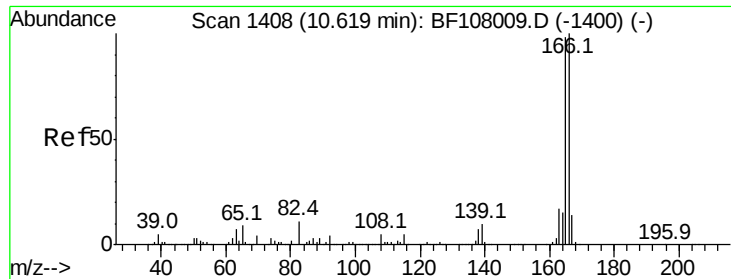
Delta R.T. -0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Tgt Ion:	168	Resp:	152476
Ion Ratio	Lower	Upper	
168	100		
139	38.4	30.1	45.1
169	15.1	10.9	16.3





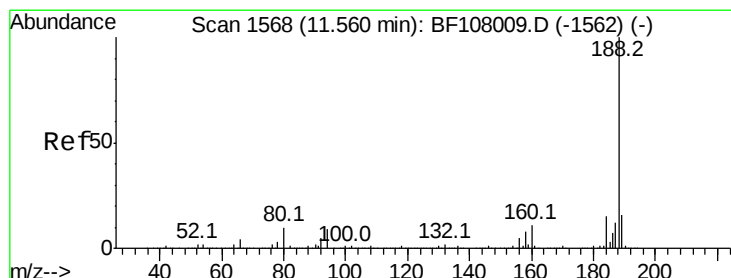
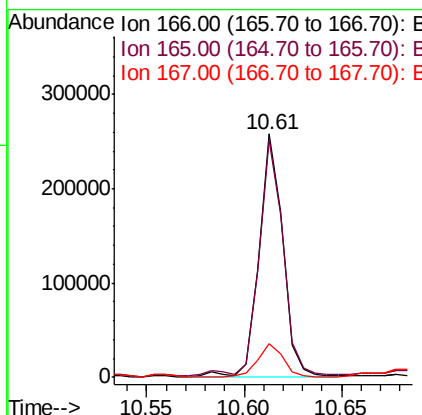
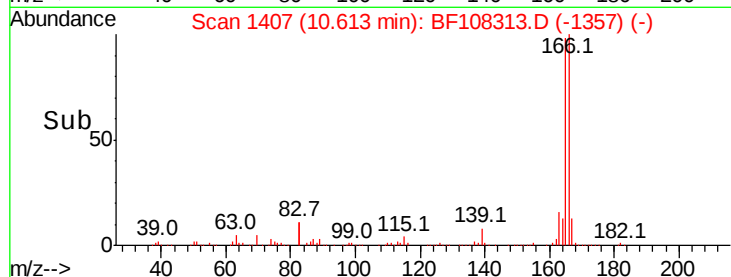
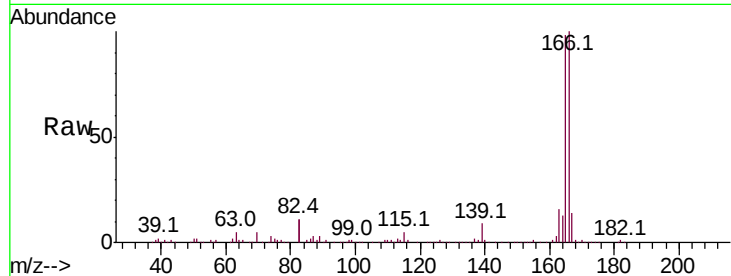
#57
Fluorene
 Concen: 16.491 ng
 RT: 10.61 min Scan# 1407
 Delta R.T. -0.01 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-081718

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.6	79.8	119.8
167	13.7	10.6	16.0

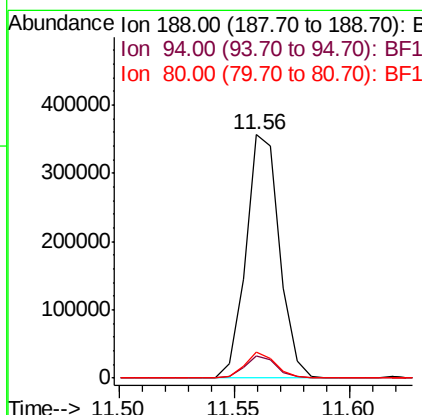
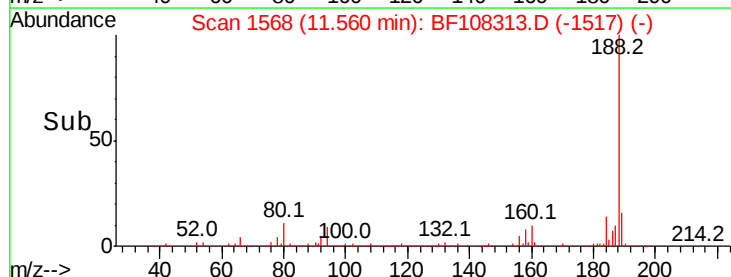
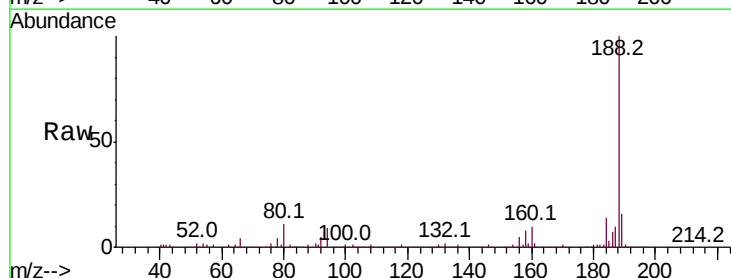
Manual Integrations
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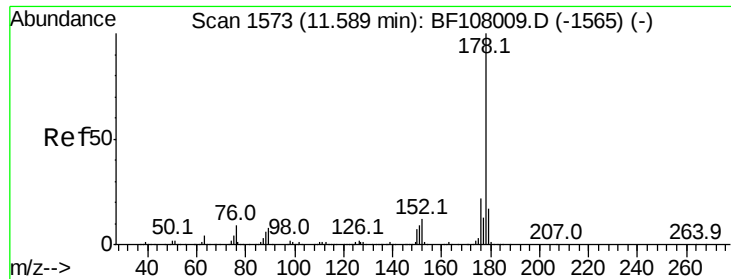
Sohil
 8/21/2018 1:43:34 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.5	12.7
80	10.5	9.2	13.8





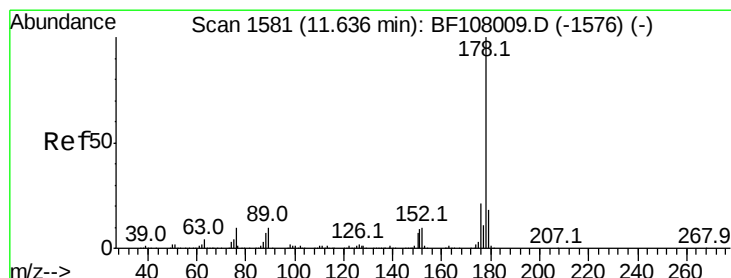
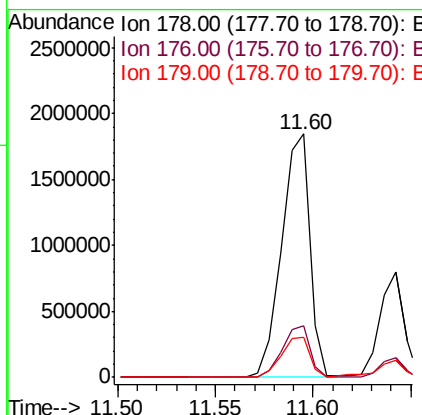
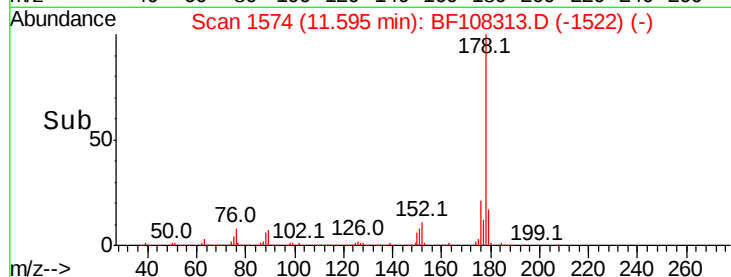
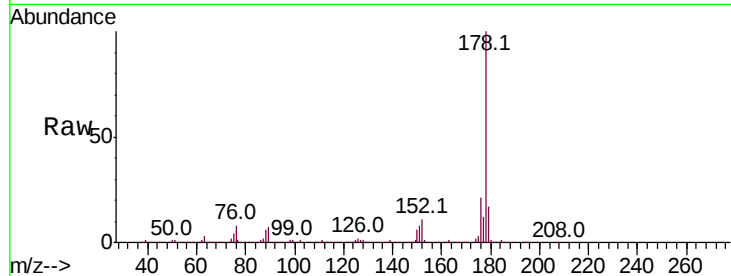
#70
Phenanthrene
Concen: 108.566 ng
RT: 11.60 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.3	15.8	23.8
179	16.7	13.0	19.6

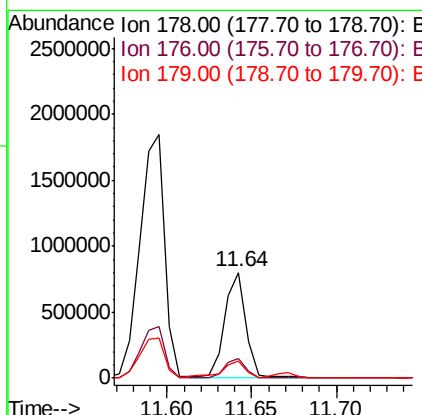
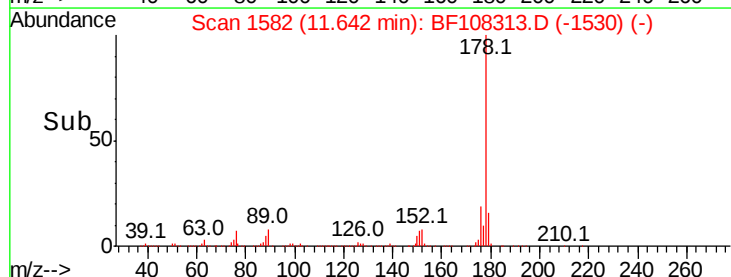
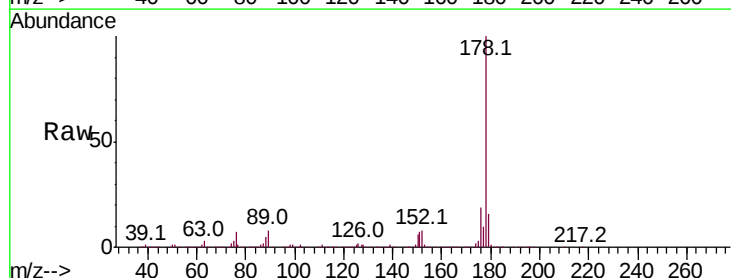
Manual Integrations
APPROVED

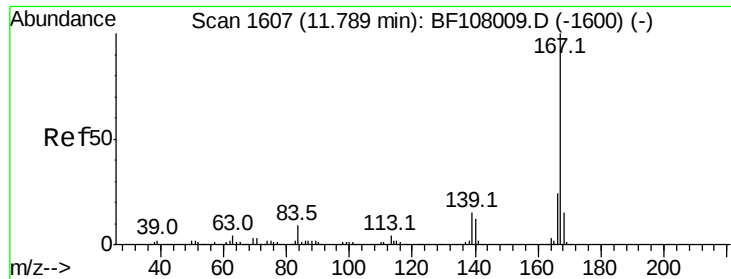
Sohil
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#71
Anthracene
Concen: 39.977 ng
RT: 11.64 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.7	12.6	19.0





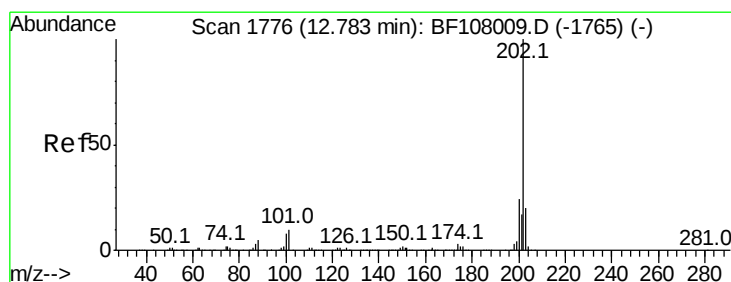
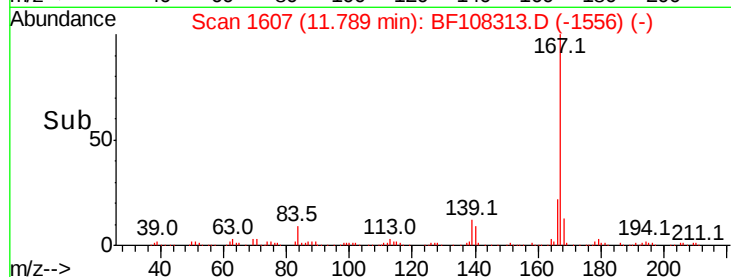
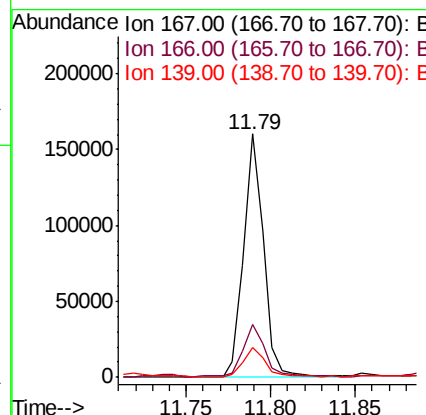
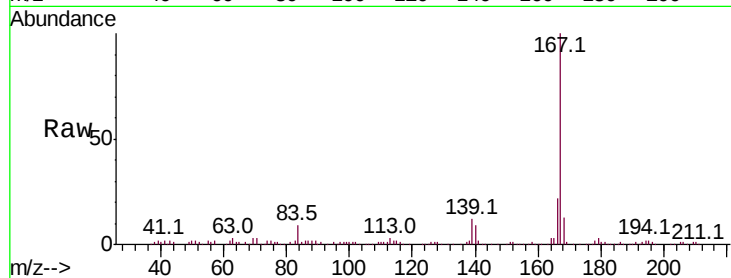
#72
 Carbazole
 Concen: 8.518 ng
 RT: 11.79 min Scan# 1607
 Delta R.T. 0.00 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-081718

Tot Ion	Ratio	Resp	Lower	Upper
167	100	132271		
166	21.9		17.6	26.4
139	12.4		10.9	16.3

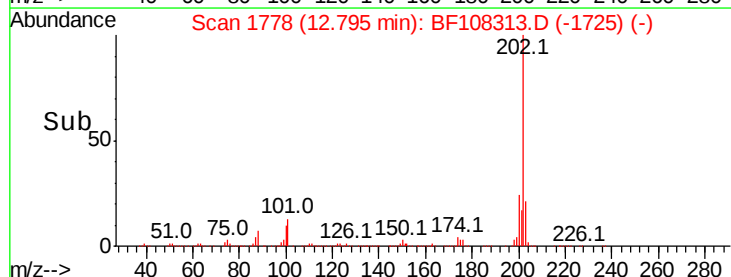
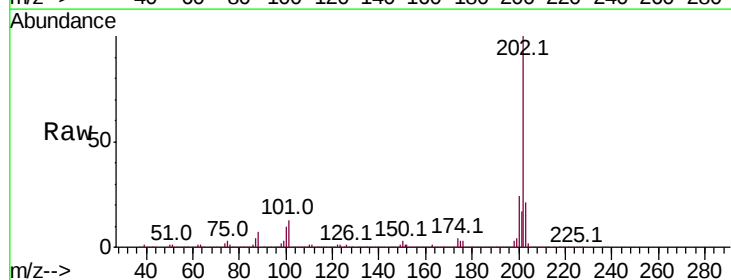
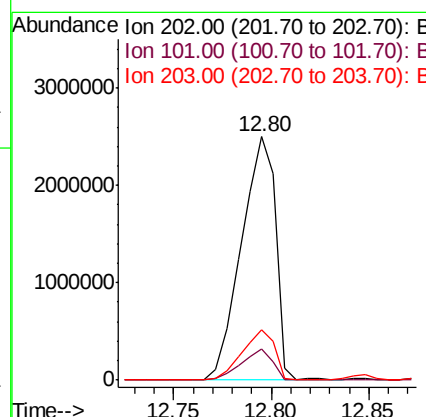
Manual Integrations
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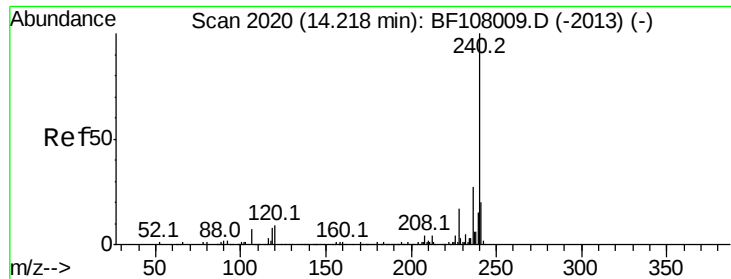
Sohil
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#74
 Fluoranthene
 Concen: 163.548 ng
 RT: 12.80 min Scan# 1778
 Delta R.T. 0.01 min
 Lab File: BF108313.D
 Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	3043917		
101	13.0		0.0	34.1
203	20.6		0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

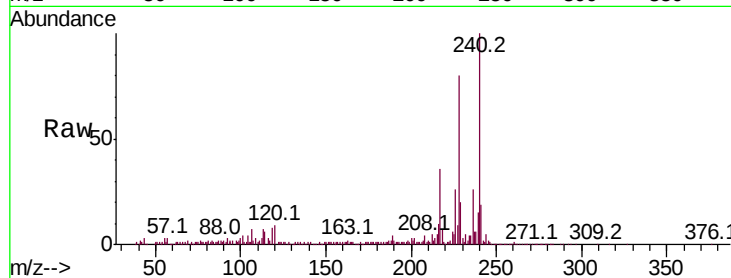
ClientSampleId :

SU-04-081718

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.4	9.5	14.3#
236	26.2	20.7	31.1

Manual Integrations
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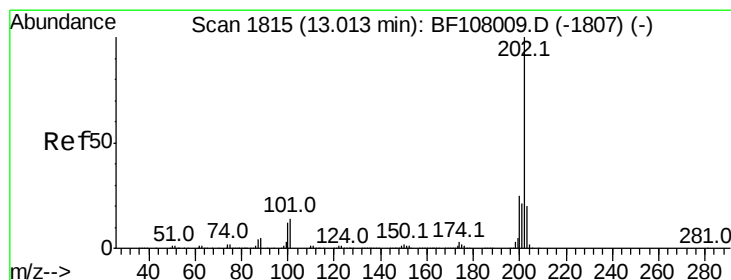
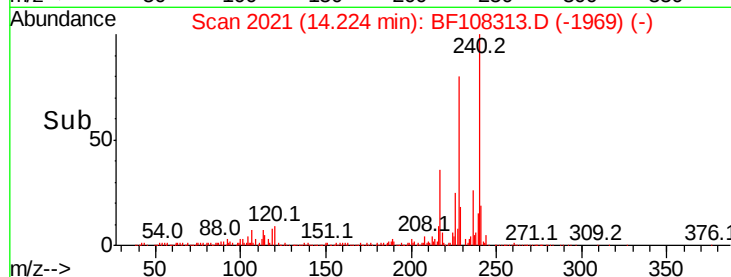
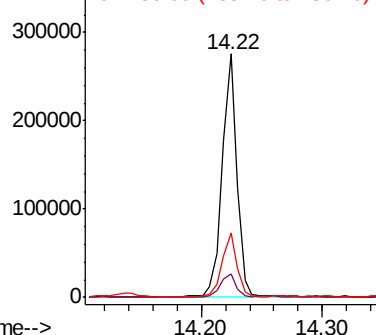


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 177.627 ng

RT: 13.03 min Scan# 1818

Delta R.T. 0.02 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

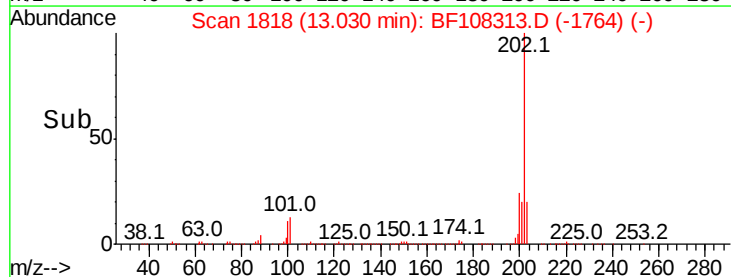
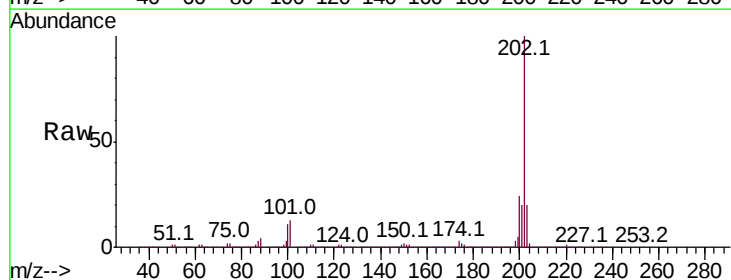
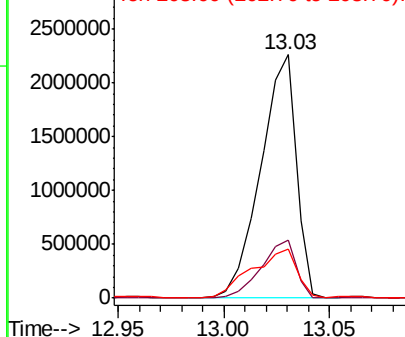
Tgt Ion	Ratio	Lower	Upper
202	100		
200	24.0	17.4	26.2
203	20.2	14.3	21.5

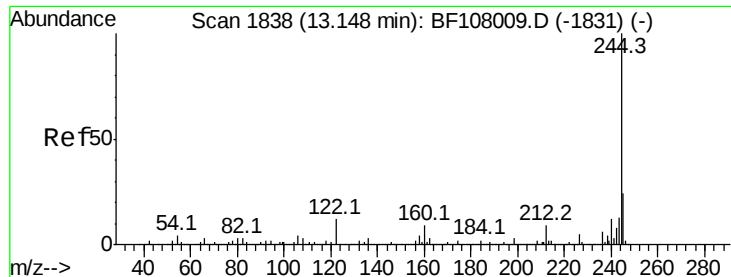
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 57.656 ng

RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

ClientSampleId :

SU-04-081718

Tot Ion:244 Resp: 533988

Ion Ratio Lower Upper

244 100

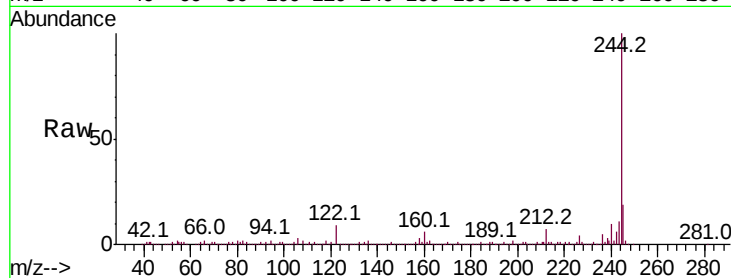
212 6.7 5.4 8.0

122 8.5 11.0 16.4#

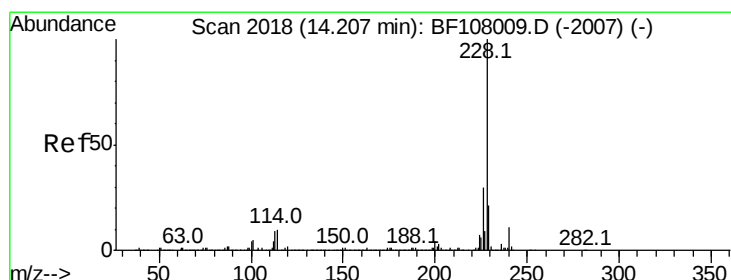
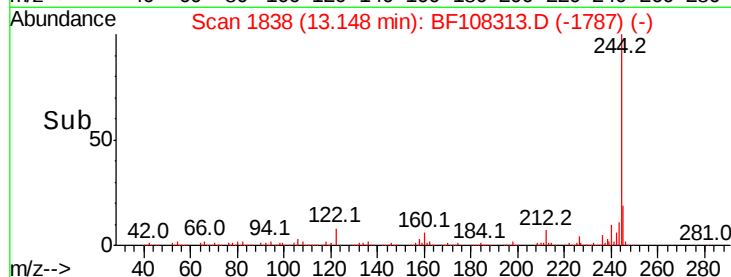
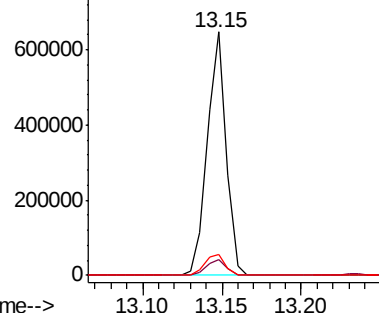
Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 95.273 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

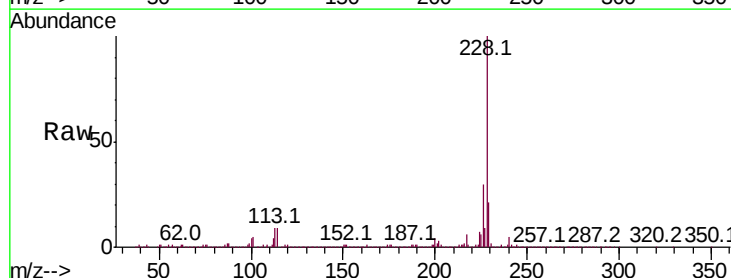
Tgt Ion:228 Resp: 1287566

Ion Ratio Lower Upper

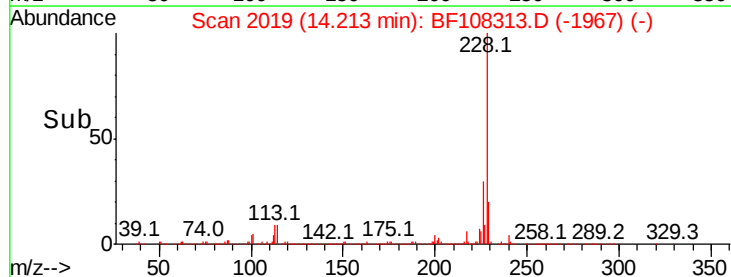
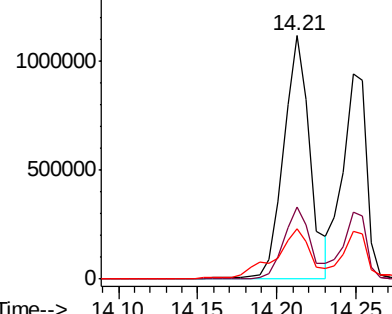
228 100

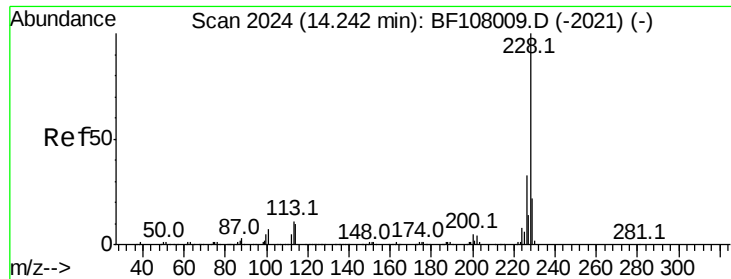
226 29.9 22.6 33.8

229 20.8 15.8 23.6



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





#82

Chrysene

Concen: 80.101 ng

RT: 14.25 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Instrument :

BNA_F

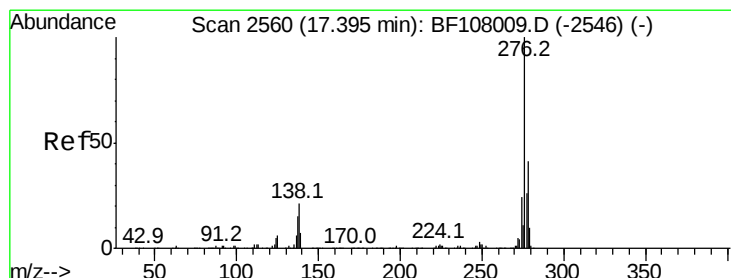
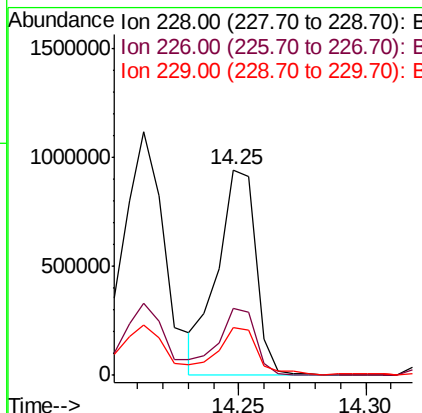
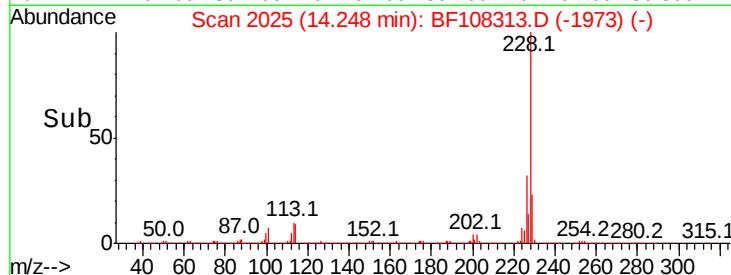
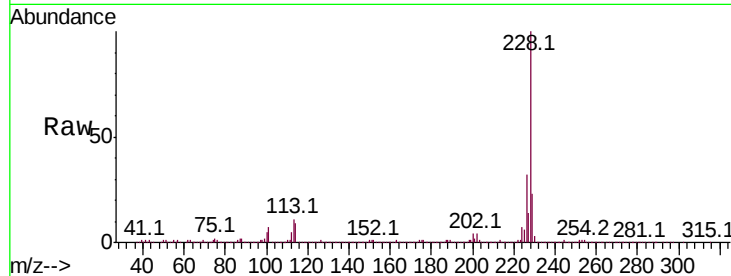
ClientSampled :

SU-04-081718

Tot Ion:	228	Resp:	992446
Ion Ratio	Lower	Upper	
228	100		
226	32.4	25.0	37.6
229	23.5	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 43.690 ng

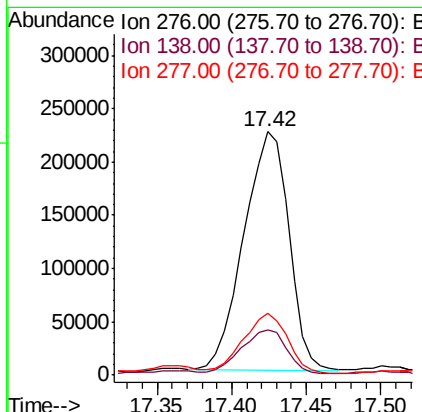
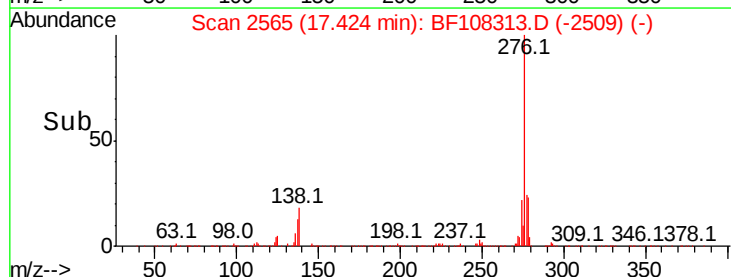
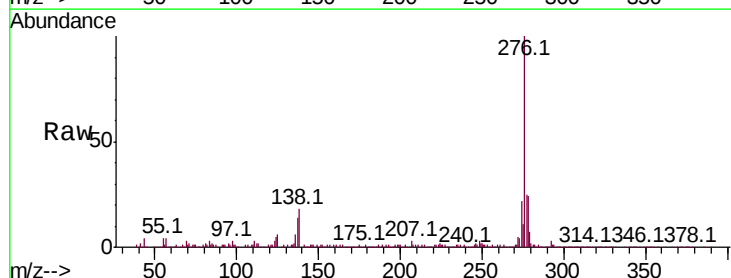
RT: 17.42 min Scan# 2565

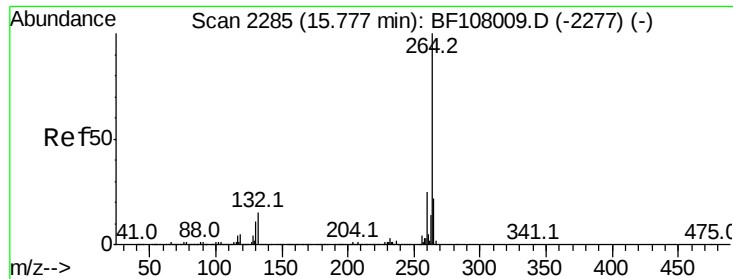
Delta R.T. 0.03 min

Lab File: BF108313.D

Acq: 21 Aug 2018 1:43

Tgt Ion:	276	Resp:	469030
Ion Ratio	Lower	Upper	
276	100		
138	18.4	25.0	37.6#
277	24.7	20.1	30.1





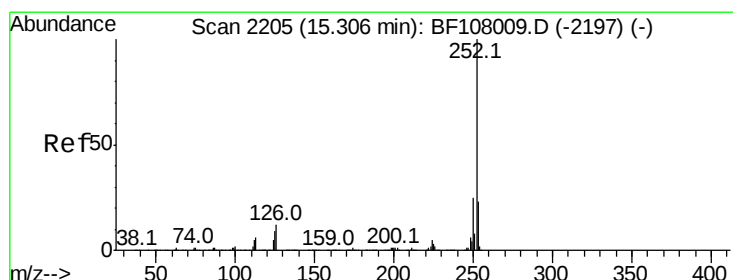
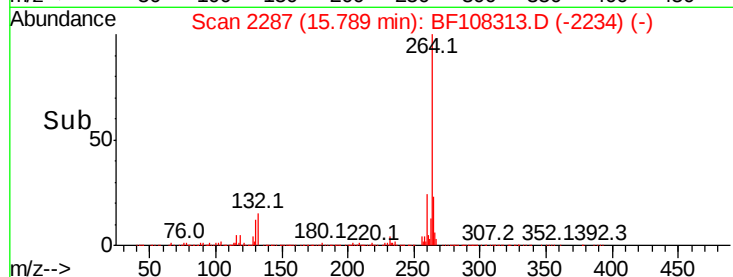
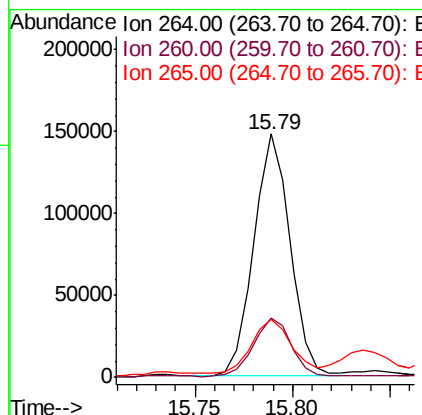
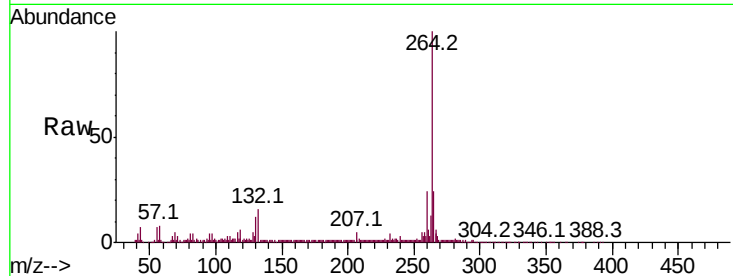
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

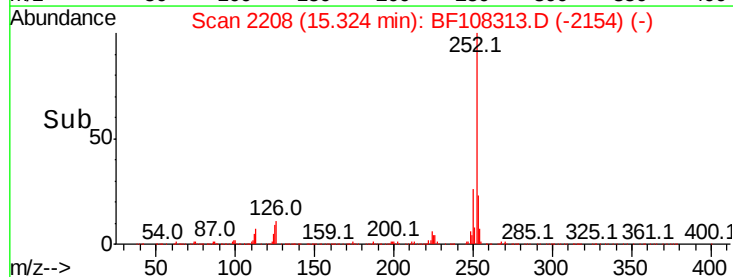
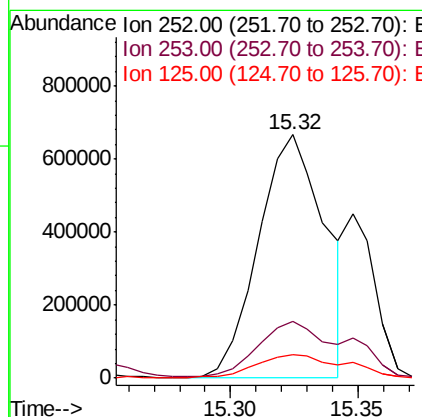
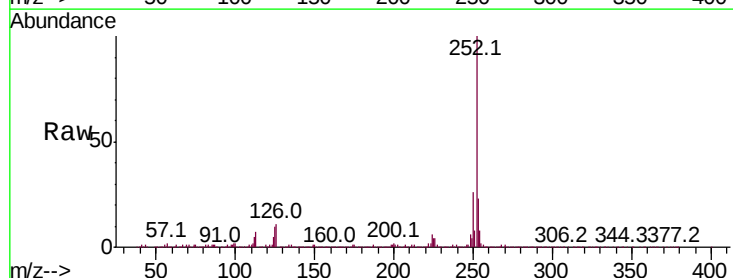
Manual Integrations
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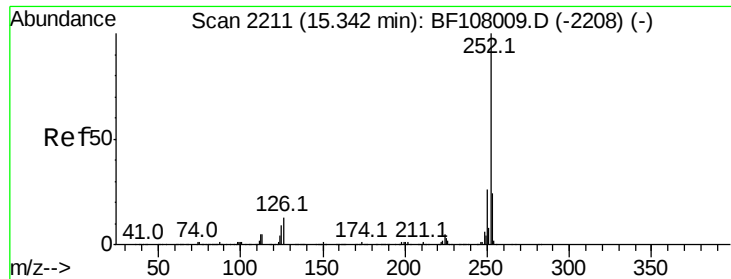
Sohil
8/21/2018 1:43:34 PM



#87
Benzo(b)fluoranthene
Concen: 106.212 ng m
RT: 15.32 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	9.7	9.0	13.6





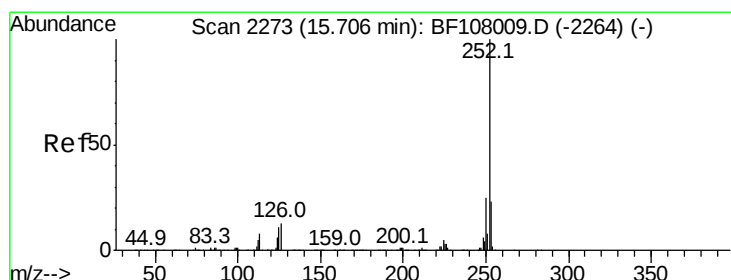
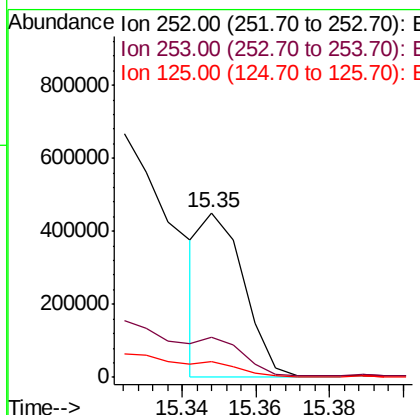
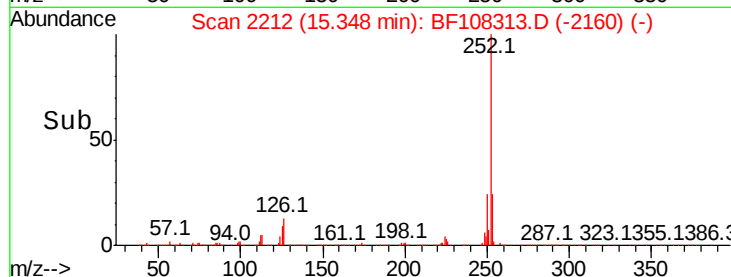
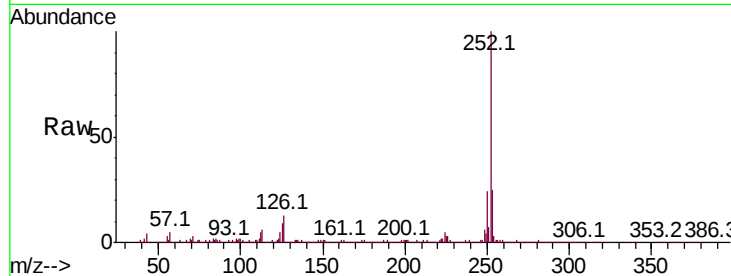
#88
Benzo(k)fluoranthene
Concen: 34.225 ng m
RT: 15.35 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	9.4	10.2	15.2

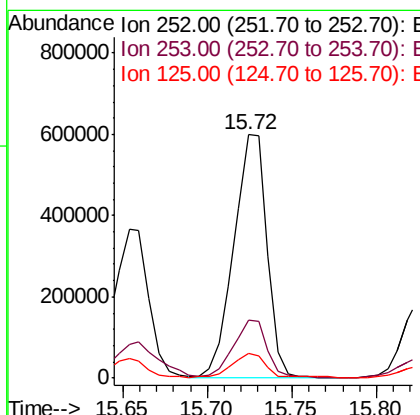
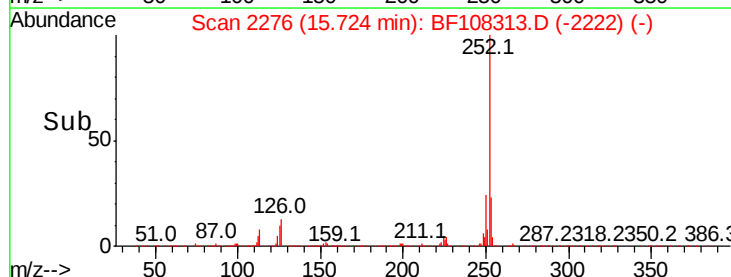
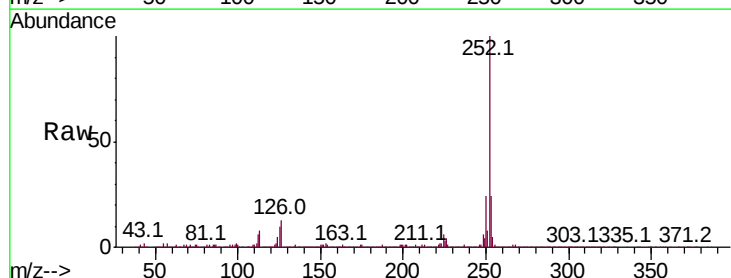
Manual Integrations
APPROVED

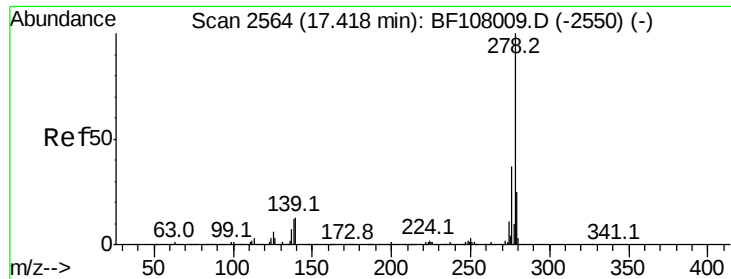
Sohil
8/21/2018 1:43:34 PM



#89
Benzo(a)pyrene
Concen: 80.005 ng
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	10.0	9.8	14.6





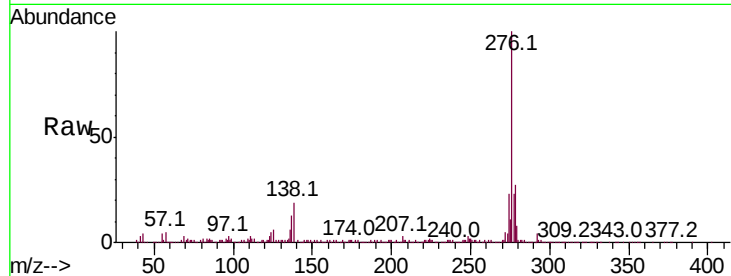
#90
Dibenzo(a,h)anthracene
Concen: 14.977 ng m
RT: 17.43 min Scan# 2566
Delta R.T. 0.01 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Instrument :
BNA_F
ClientSampleId :
SU-04-081718

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.2	19.0	28.4

Manual Integrations
APPROVED

Sohil
8/21/2018 1:43:34 PM

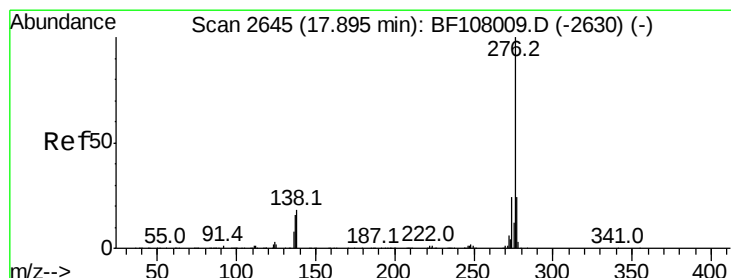
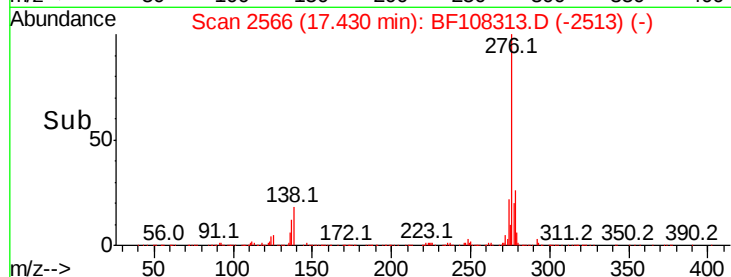
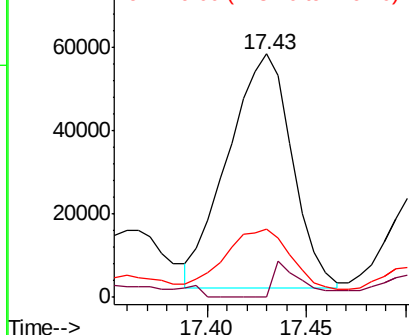


Abundance

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



#91
Benzo(g,h,i)perylene
Concen: 52.200 ng
RT: 17.92 min Scan# 2650
Delta R.T. 0.03 min
Lab File: BF108313.D
Acq: 21 Aug 2018 1:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	18.6	21.8	32.8#

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

