

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
 Data File : BF108302.D
 Acq On : 20 Aug 2018 20:45
 Operator : JU/SJ
 Sample : J4521-07 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11969

Manual Integrations
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Sohil
 8/21/2018 1:43:12 PM

Quant Time: Aug 21 01:41:35 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	166124	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	597781	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	247266	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	437005	20.00	ng	0.00
75) Chrysene-d12	14.22	240	313170	20.00	ng	0.00
86) Perylene-d12	15.78	264	249969	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	81271	8.86	ng	0.00
7) Phenol-d6	6.63	99	109326	8.97	ng	0.00
23) Nitrobenzene-d5	7.57	82	60706	5.67	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	18078	7.33	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	112849	7.33	ng	0.00
78) Terphenyl-d14	13.14	244	99408	8.07	ng	0.00
Target Compounds						
31) Naphthalene	8.32	128	95659	3.519	ng	99
37) 2-Methylnaphthalene	9.01	142	111501	5.797	ng	98
45) 1,1'-Biphenyl	9.48	154	42512	2.332	ng	97
51) Acenaphthene	10.10	154	236508	16.951	ng	98
54) Dibenzofuran	10.27	168	243554	12.049	ng	98
57) Fluorene	10.61	166	363810	22.736	ng	99
70) Phenanthrene	11.59	178	2415192	117.174	ng	96
71) Anthracene	11.64	178	785213	37.168	ng	100
72) Carbazole	11.79	167	98607	5.254	ng	98
74) Fluoranthene	12.79	202	2436989	108.333	ng	95
77) Pyrene	13.02	202	2113776	106.611	ng	96
80) Benzo(a)anthracene	14.21	228	1006289	55.990	ng	98
82) Chrysene	14.25	228	787114	47.770	ng	97
85) Indeno(1,2,3-cd)pyrene	17.41	276	281015	19.683	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	824996m	55.233	ng	
88) Benzo(k)fluoranthene	15.34	252	216485m	15.767	ng	
89) Benzo(a)pyrene	15.72	252	559493m	41.830	ng	
90) Dibenzo(a,h)anthracene	17.42	278	80884m	7.309	ng	
91) Benzo(a,h,i)perylene	17.91	276	241463	22.158	ng	# 89

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

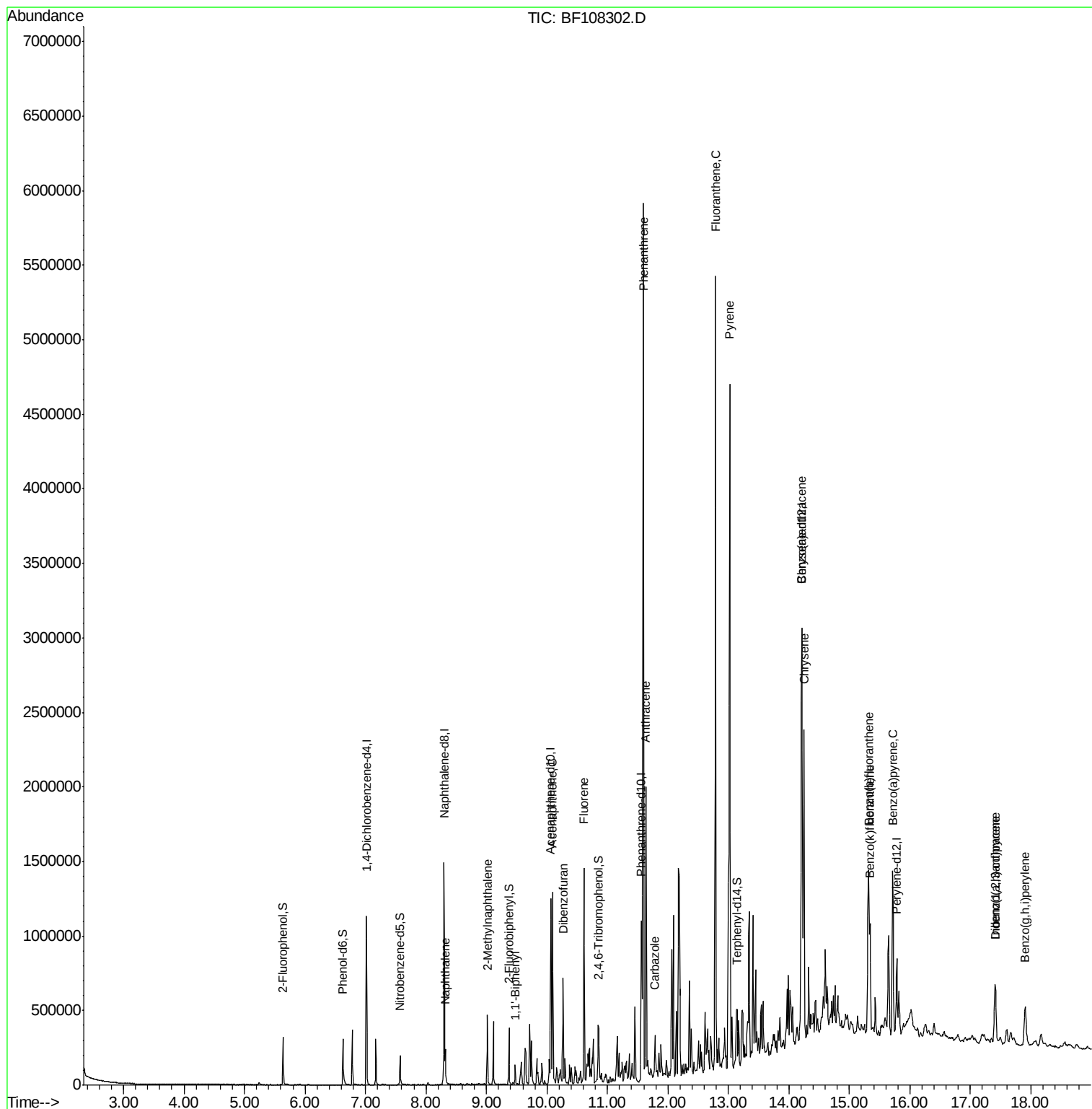
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
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#1

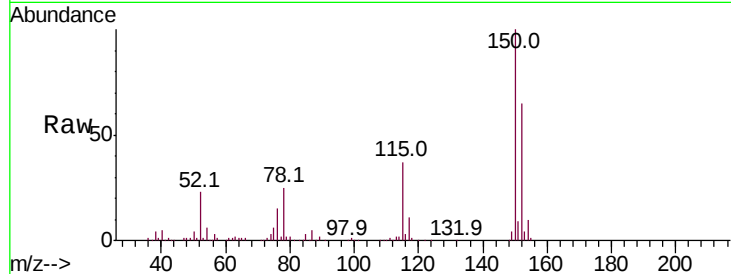
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.6	186.8
115	56.6	50.1	75.1

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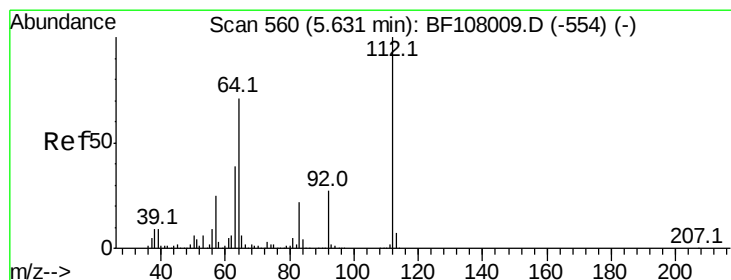
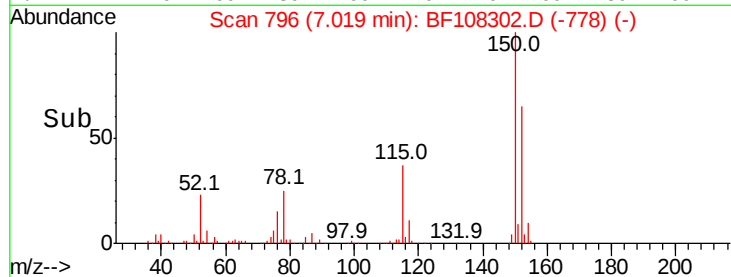
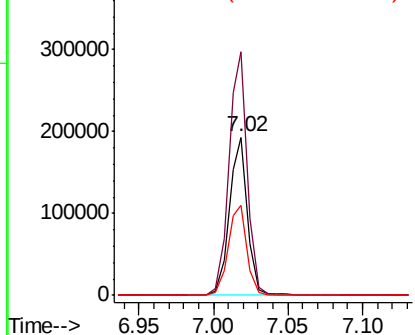


Abundance

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: 8.857 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

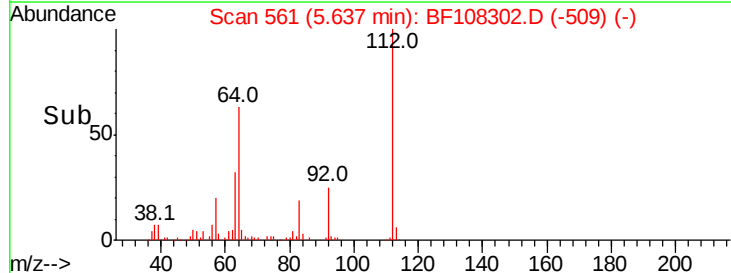
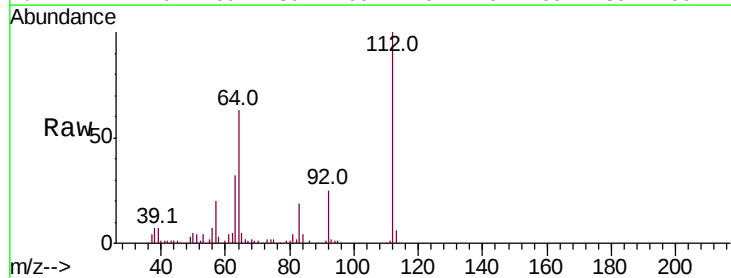
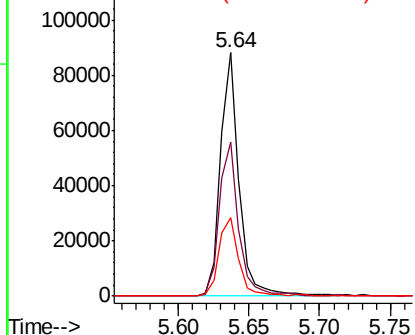
Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	47.9	71.9
63	32.2	23.7	35.5

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: 8.966 ng

RT: 6.63 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Instrument :

BNA_F

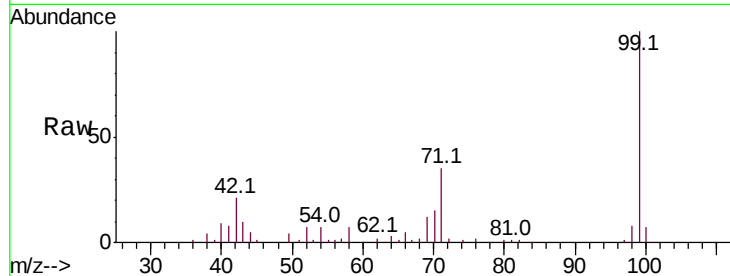
ClientSampled :

72-11969

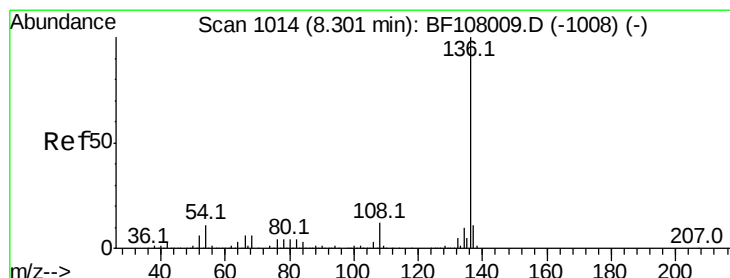
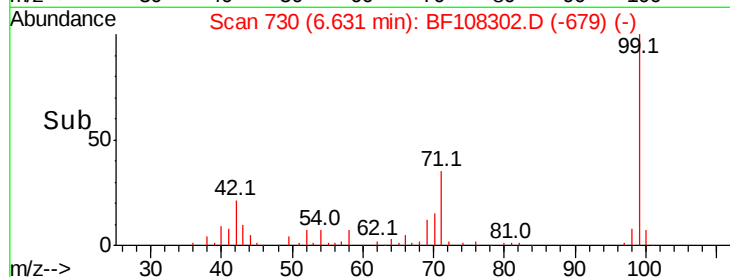
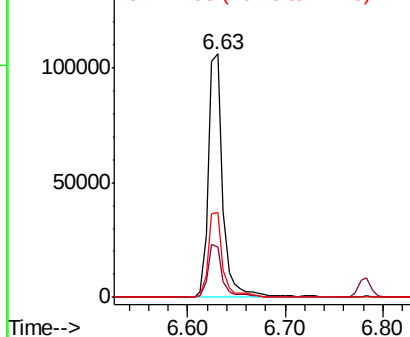
Tot Ion	99	Resp	109326
Ion	Ratio	Lower	Upper
99	100		
42	20.5	14.5	21.7
71	34.7	25.4	38.0

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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: 8.30 min Scan# 1014

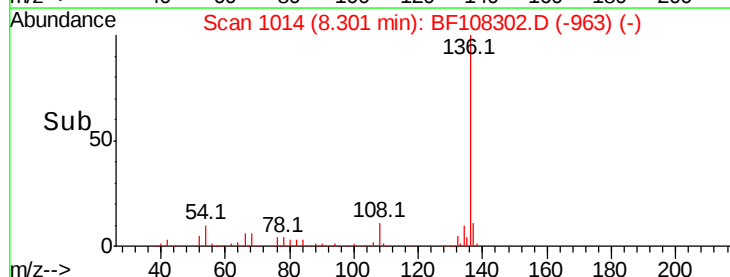
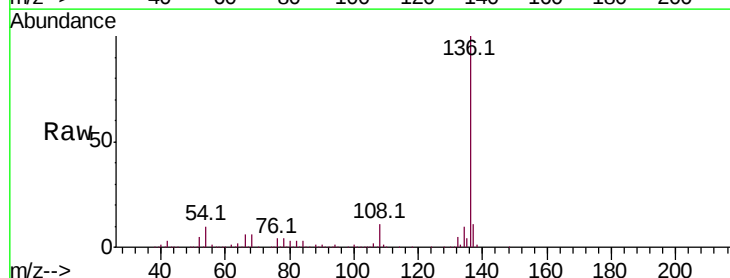
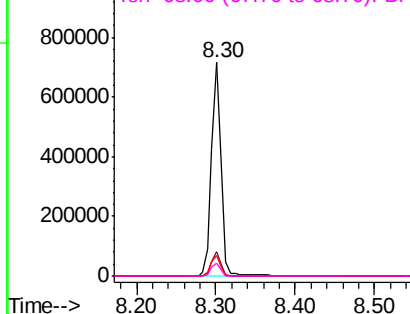
Delta R.T. -0.00 min

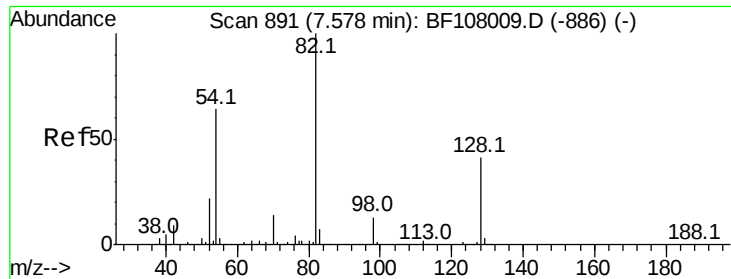
Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Tgt Ion	136	Resp	597781
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	9.8	6.6	9.8
68	6.1	5.0	7.4

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





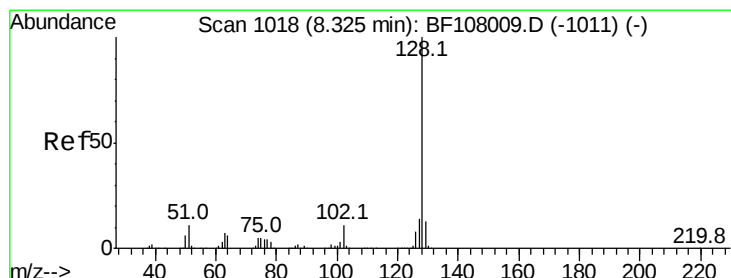
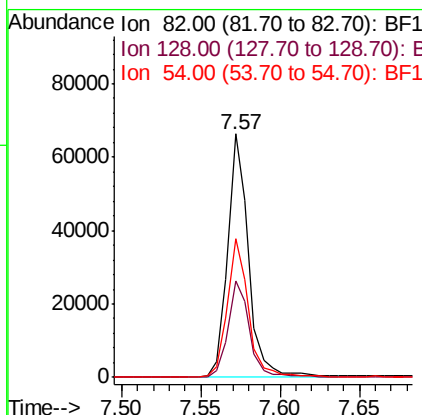
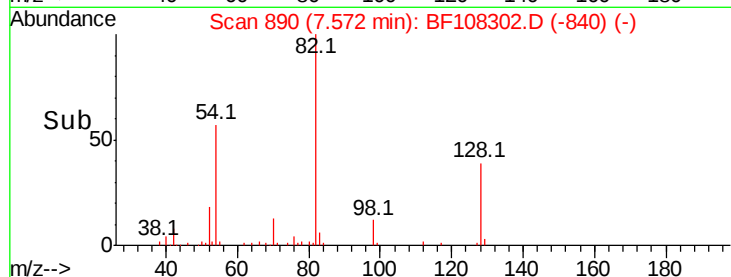
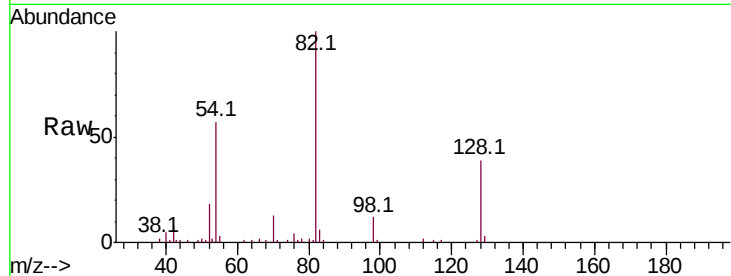
#23
 Nitrobenzene-d5
 Concen: 5.667 ng
 RT: 7.57 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Instrument :
 BNA_F
 ClientSampled :
 72-11969

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.4	36.1	54.1
54	57.2	41.4	62.2

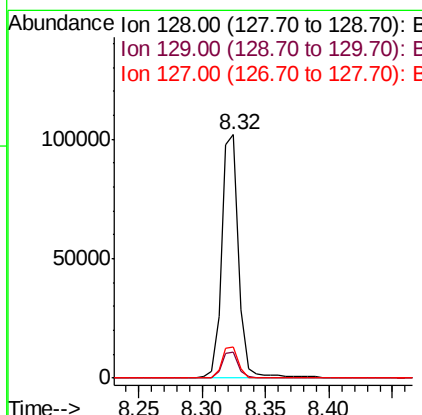
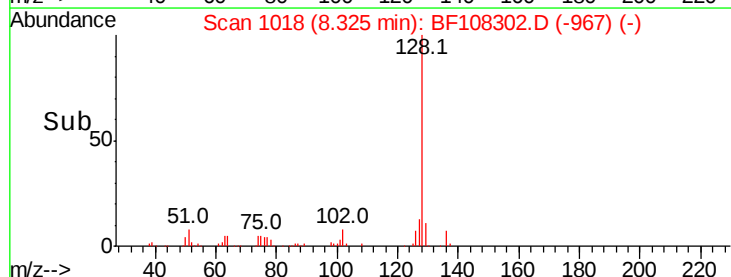
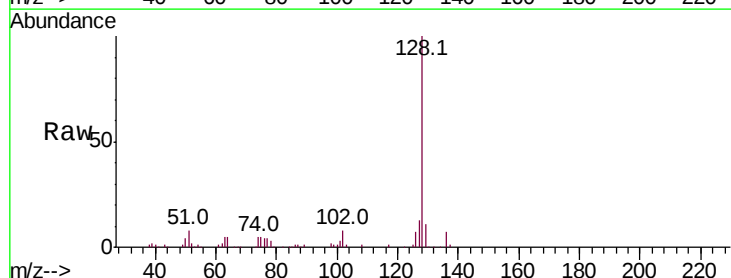
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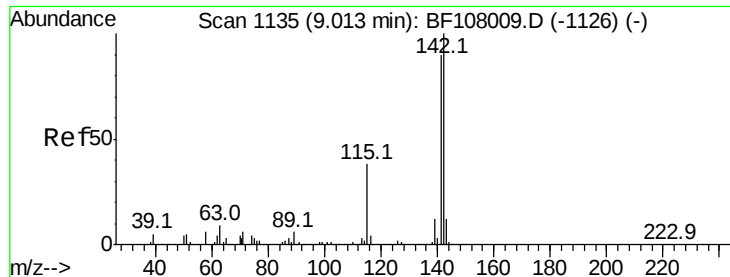
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#31
 Naphthalene
 Concen: 3.519 ng
 RT: 8.32 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.8	10.9	16.3





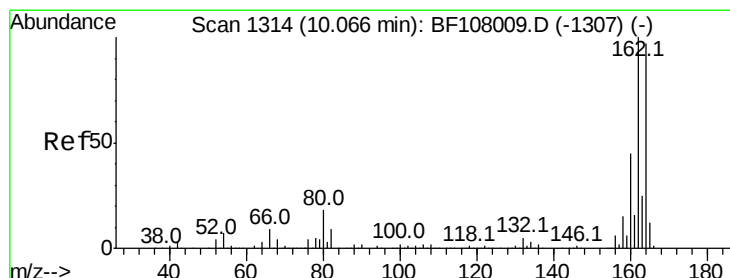
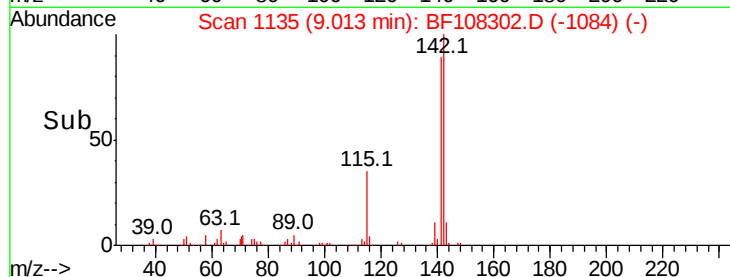
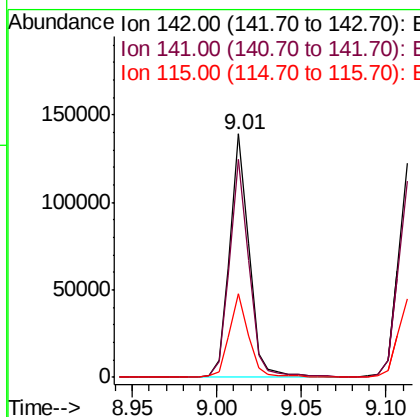
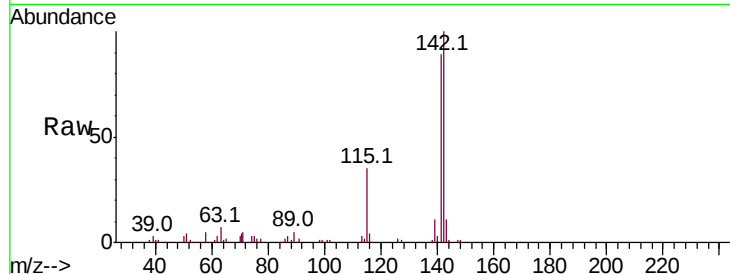
#37
2-Methylnaphthalene
Concen: 5.797 ng
RT: 9.01 min Scan# 1135
Delta R.T. -0.00 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.8	106.2
115	34.6	26.1	39.1

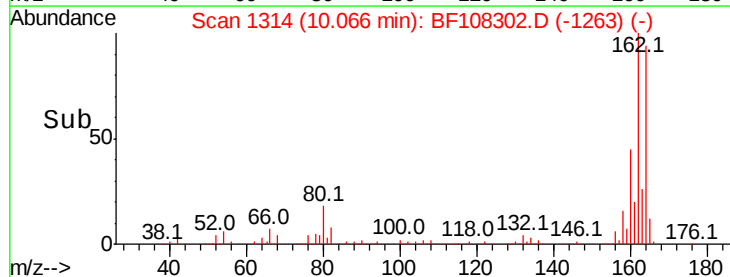
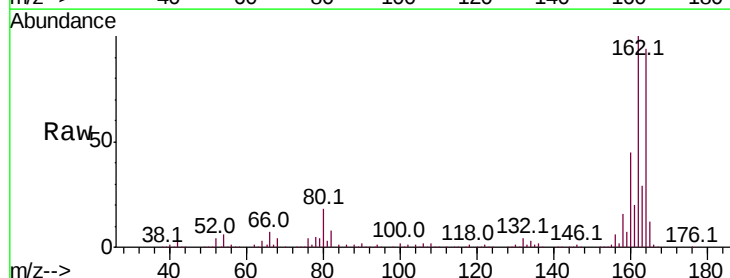
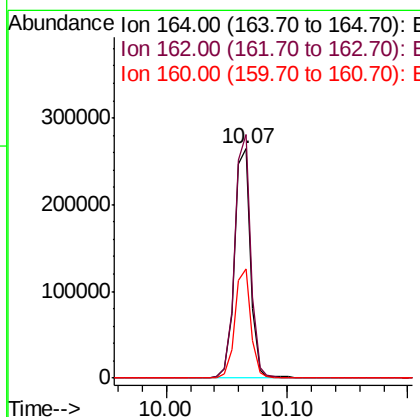
Manual Integrations
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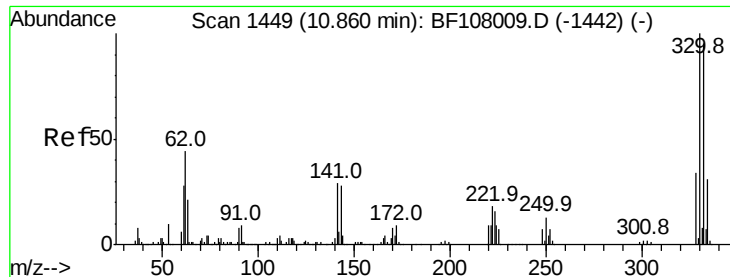
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.07 min Scan# 1314
Delta R.T. 0.00 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	86.1	129.1
160	47.8	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 7.330 ng

RT: 10.85 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Instrument :

BNA_F

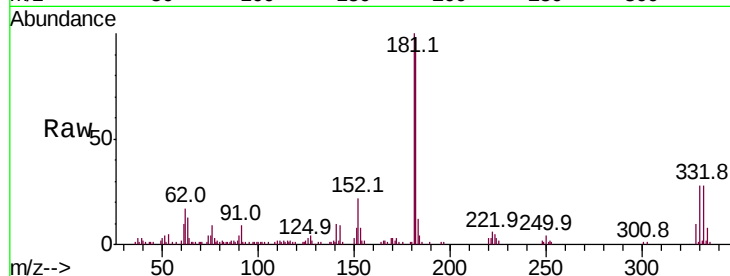
ClientSampled :

72-11969

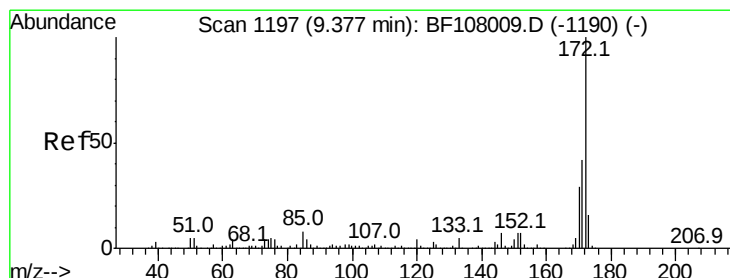
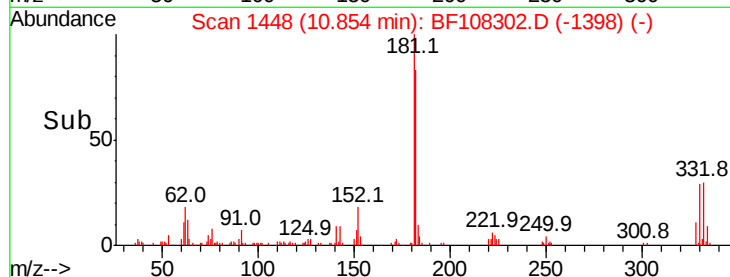
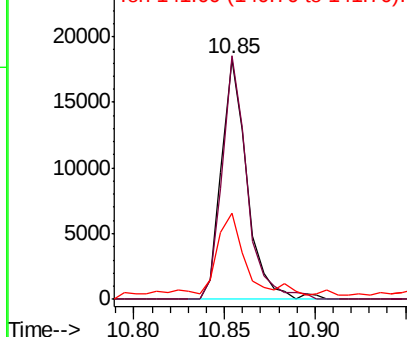
Tot Ion:	330	Resp:	18078
Ion Ratio	Lower	Upper	
330	100		
332	98.0	77.0	115.6
141	50.8	29.9	44.9#

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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: 7.327 ng

RT: 9.37 min Scan# 1196

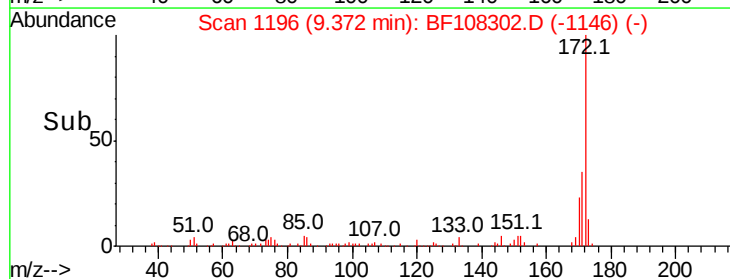
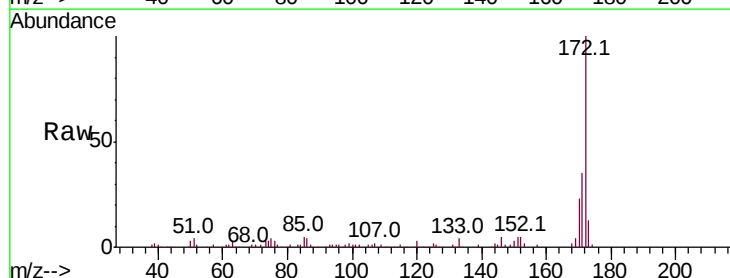
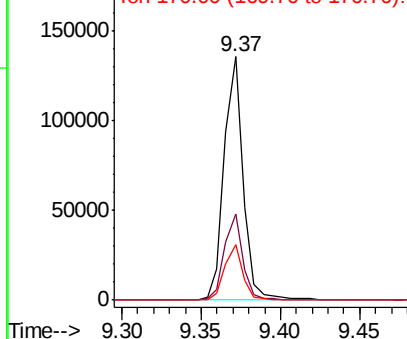
Delta R.T. -0.01 min

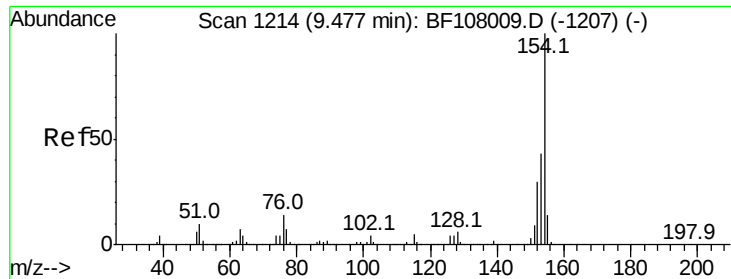
Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Tgt Ion:	172	Resp:	112849
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.7	44.5
170	22.8	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





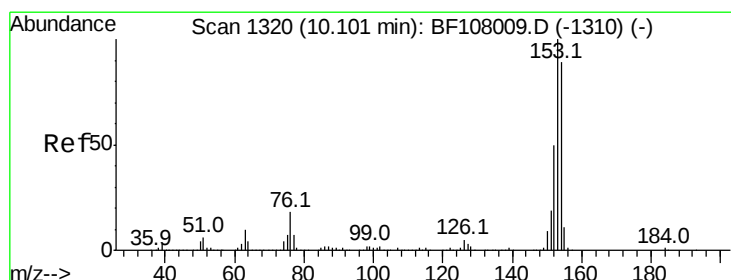
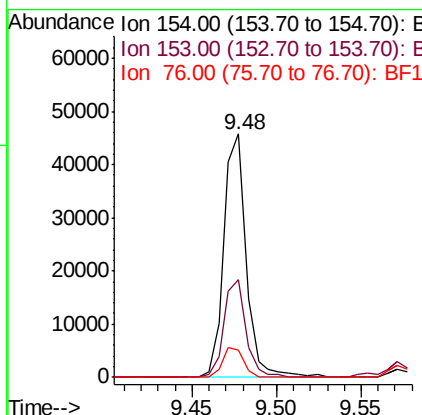
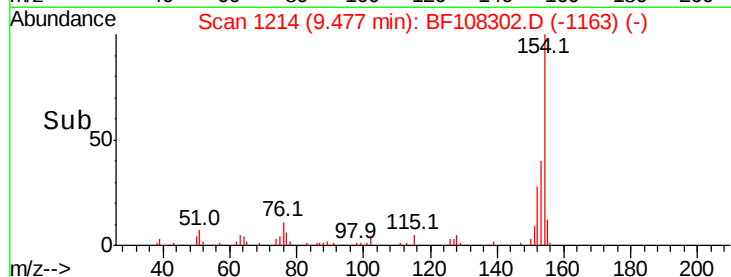
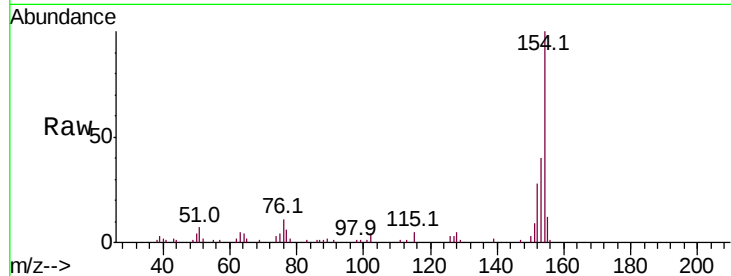
#45
 1,1'-Biphenyl
 Concen: 2.332 ng
 RT: 9.48 min Scan# 1214
 Delta R.T. 0.00 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Instrument :
 BNA_F
 ClientSampleId :
 72-11969

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.4	21.3	61.3	
76	11.2	0.0	34.0	

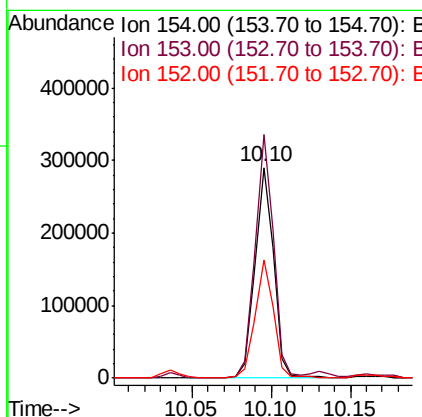
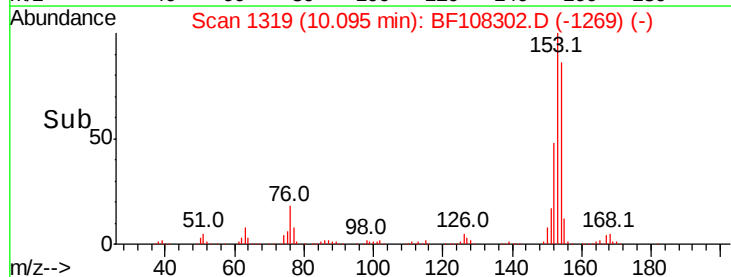
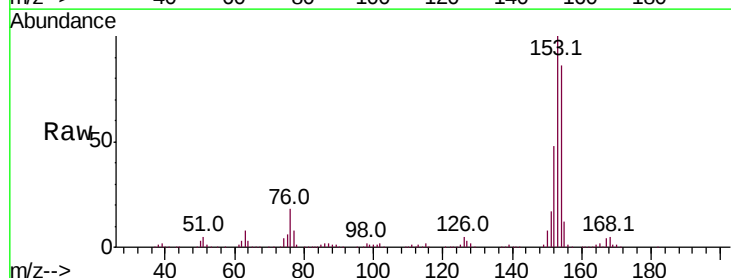
Manual Integrations
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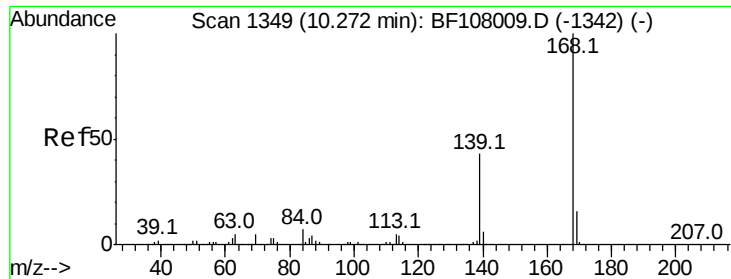
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#51
 Acenaphthene
 Concen: 16.951 ng
 RT: 10.10 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.7	91.2	136.8	
152	55.9	43.8	65.8	





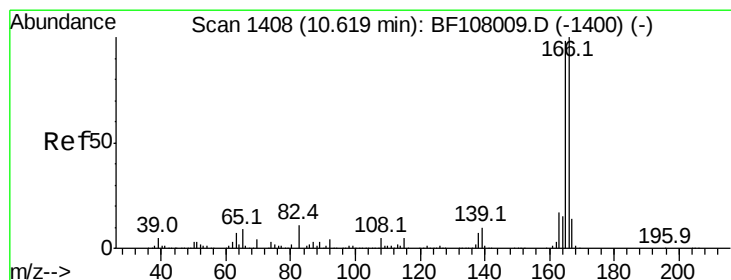
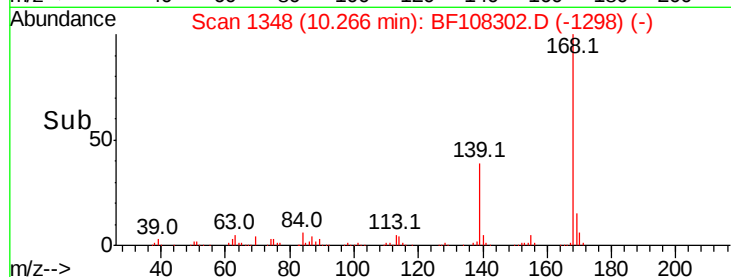
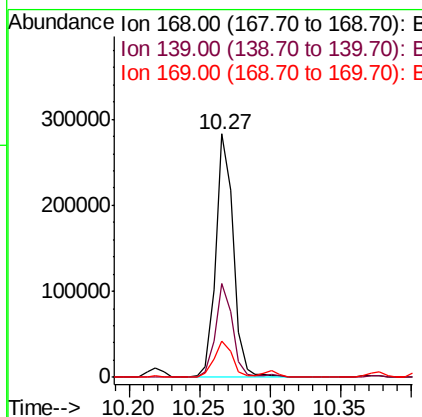
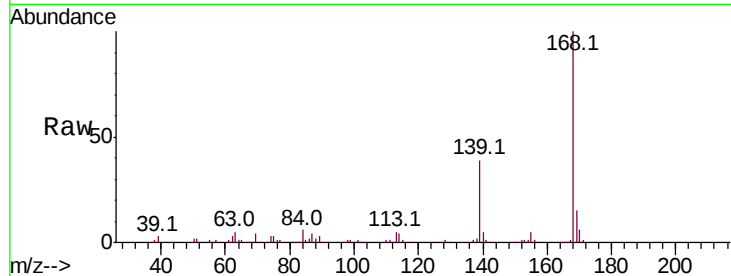
#54
Dibenzenofuran
Concen: 12.049 ng
RT: 10.27 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Resp	Lower	Upper
168	100	243554		
139	38.7		30.1	45.1
169	15.0		10.9	16.3

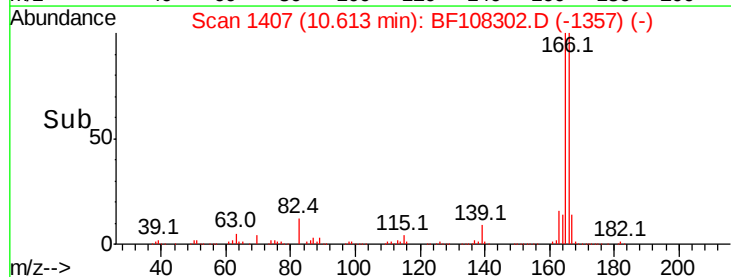
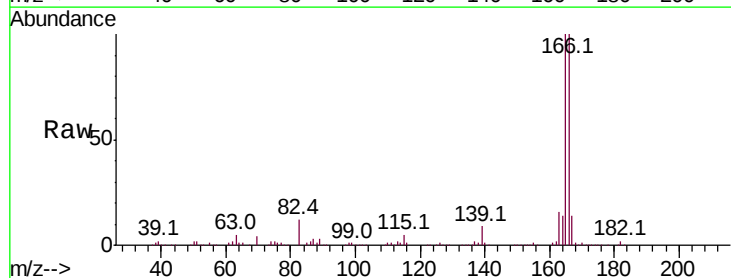
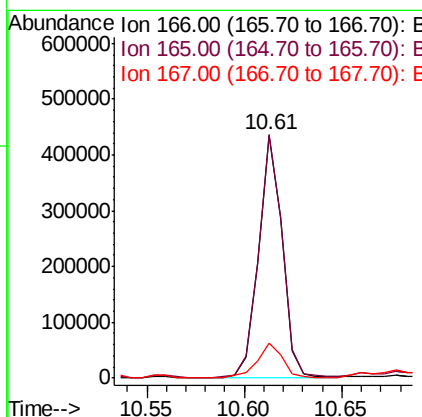
Manual Integrations
APPROVED

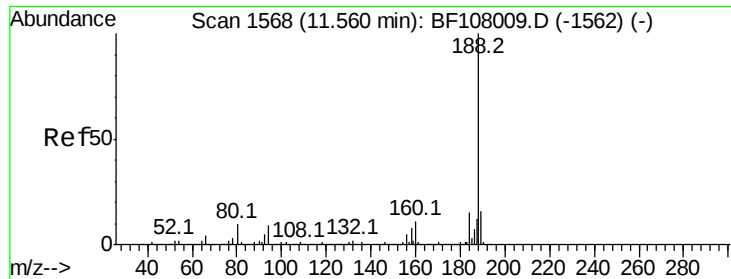
Sohil
8/21/2018 1:43:12 PM



#57
Fluorene
Concen: 22.736 ng
RT: 10.61 min Scan# 1407
Delta R.T. -0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	363810		
165	100.2		79.8	119.8
167	14.2		10.6	16.0





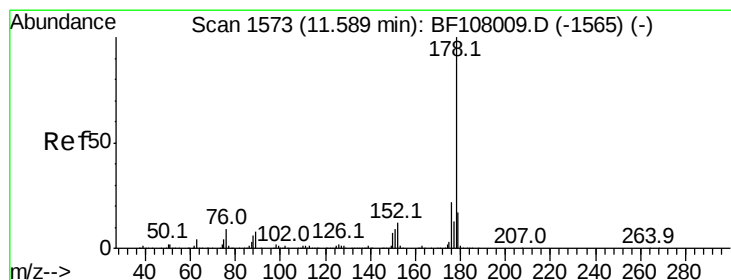
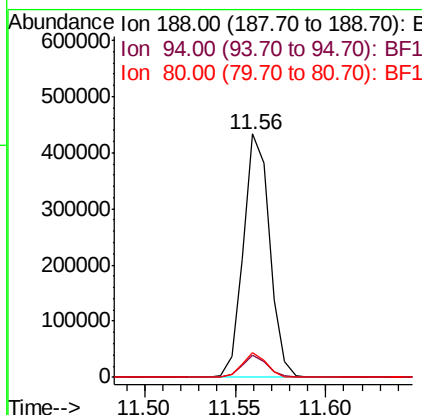
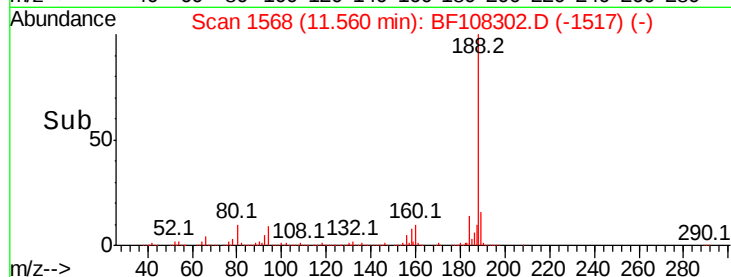
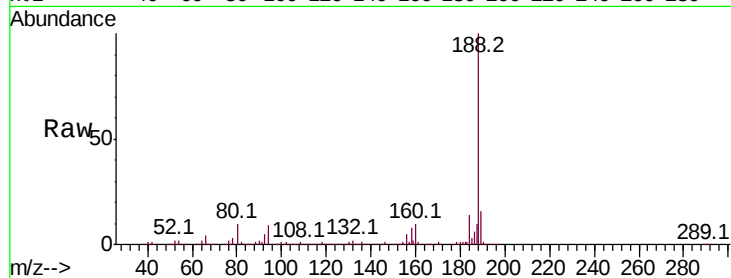
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Instrument :
 BNA_F
 ClientSampled :
 72-11969

Tot Ion	Ratio	Resp	Lower	Upper
188	100	437005		
94	9.2		8.5	12.7
80	10.0		9.2	13.8

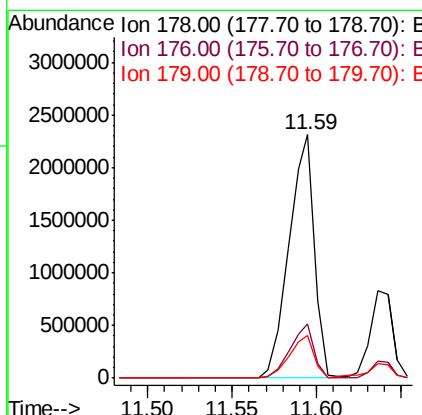
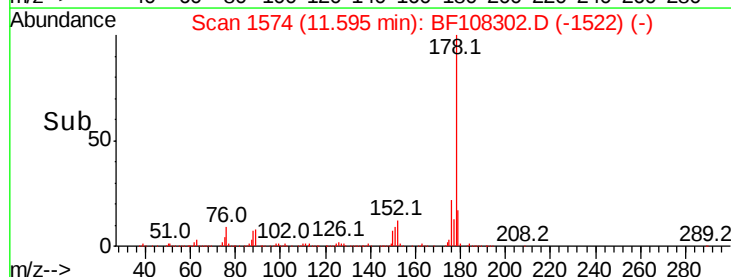
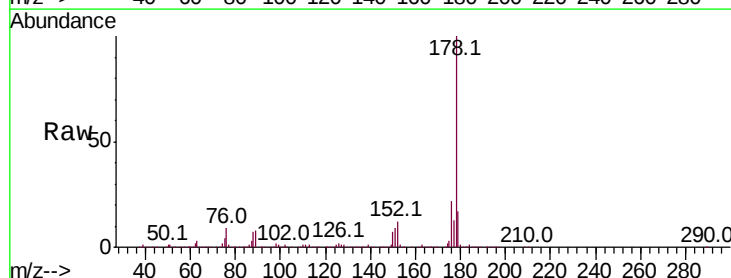
Manual Integrations
 APPROVED

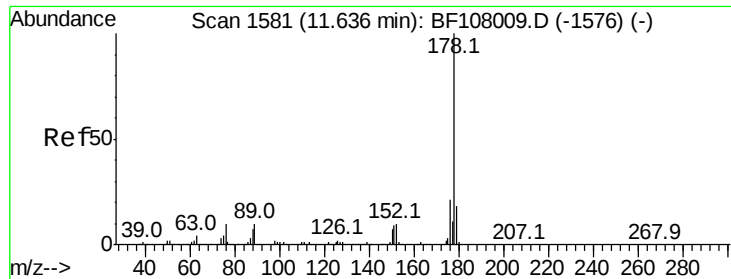
Sohil
 8/21/2018 1:43:12 PM



#70
 Phenanthrene
 Concen: 117.174 ng
 RT: 11.59 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2415192		
176	22.2		15.8	23.8
179	17.3		13.0	19.6





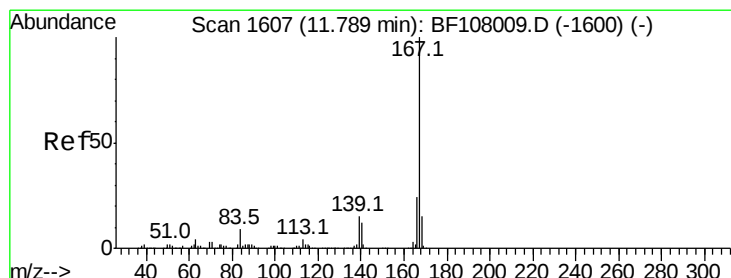
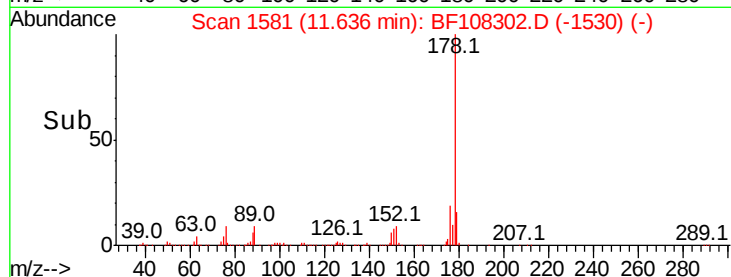
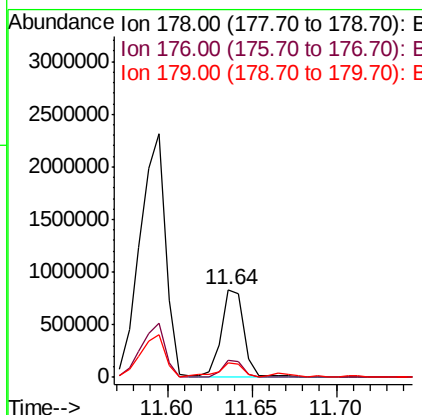
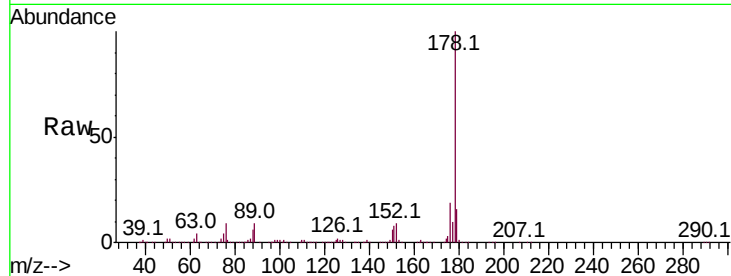
#71
 Anthracene
 Concen: 37.168 ng
 RT: 11.64 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Instrument :
 BNA_F
 ClientSampleId :
 72-11969

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	16.1	12.6	19.0

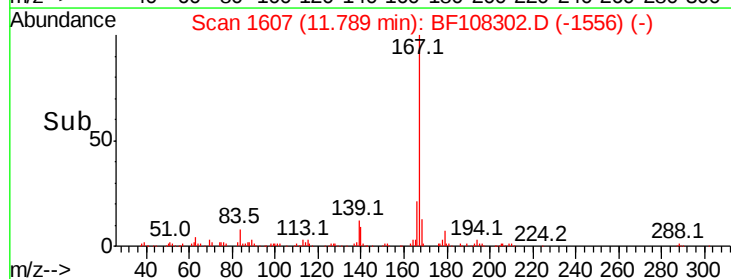
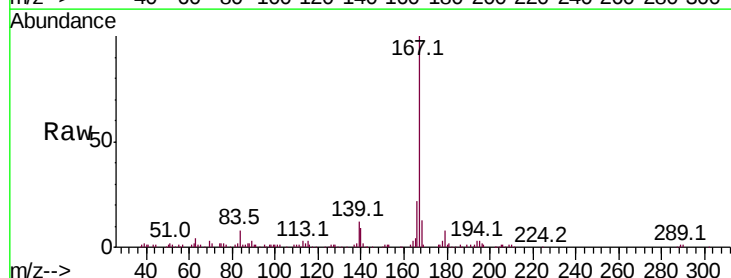
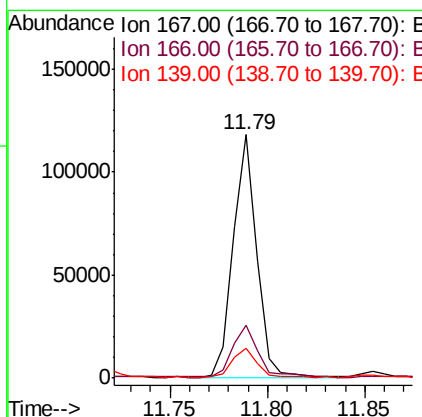
Manual Integrations
 APPROVED

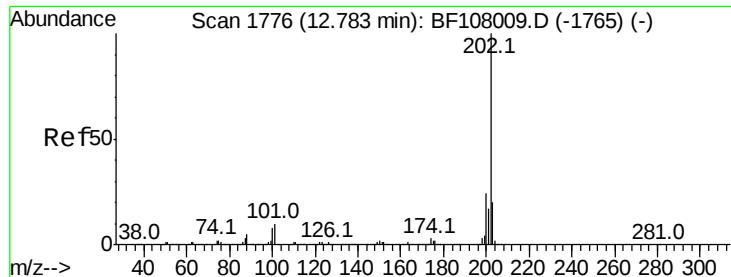
Sohil
 8/21/2018 1:43:12 PM



#72
 Carbazole
 Concen: 5.254 ng
 RT: 11.79 min Scan# 1607
 Delta R.T. 0.00 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.6	26.4
139	12.1	10.9	16.3





#74

Fluoranthene

Concen: 108.333 ng

RT: 12.79 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Instrument :

BNA_F

ClientSampled :

72-11969

Tot Ion:202 Resp: 2436989

Ion Ratio Lower Upper

202 100

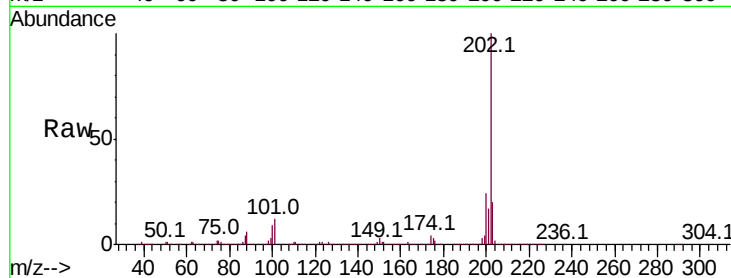
101 11.8 0.0 34.1

203 19.8 0.0 38.1

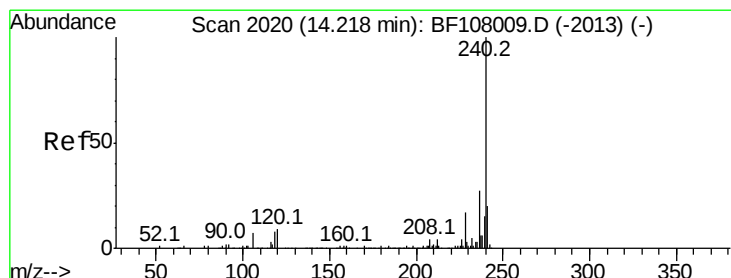
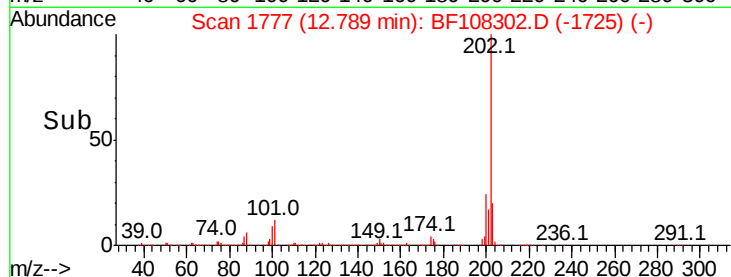
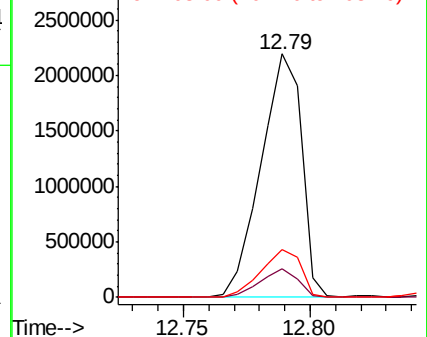
Manual Integrations
APPROVED

Sohil

8/21/2018 1:43:12 PM



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

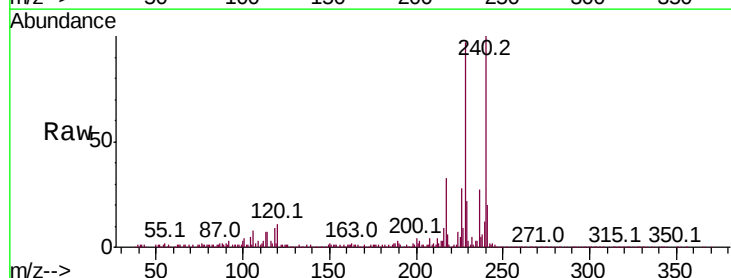
Tgt Ion:240 Resp: 313170

Ion Ratio Lower Upper

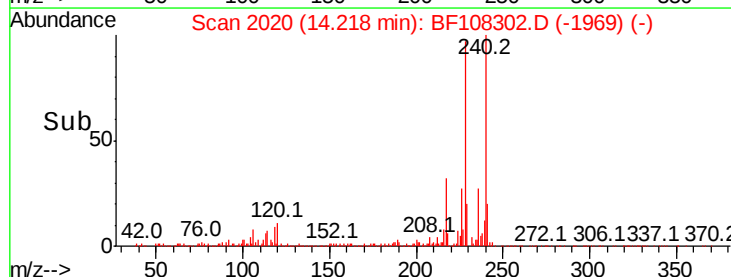
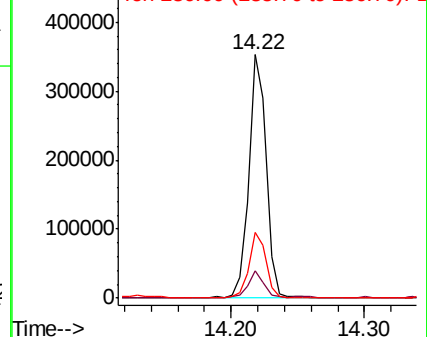
240 100

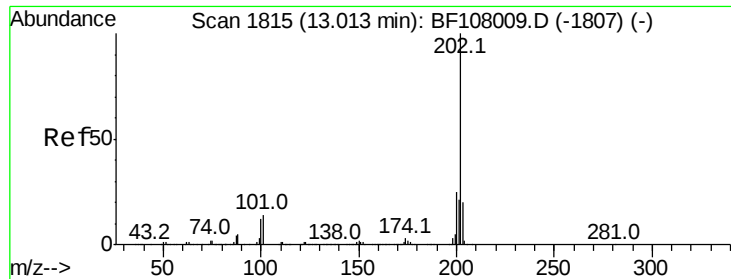
120 11.0 9.5 14.3

236 26.9 20.7 31.1



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

Pvrene

Concen: 106.611 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

Instrument :

BNA_F

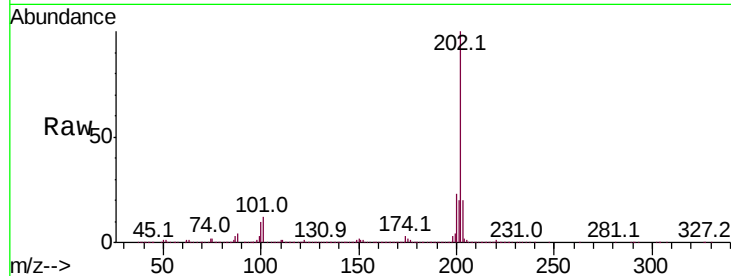
ClientSampled :

72-11969

Tot Ion:	202	Resp:	2113776
Ion	Ratio	Lower	Upper
202	100		
200	23.2	17.4	26.2
203	20.2	14.3	21.5

Manual Integrations
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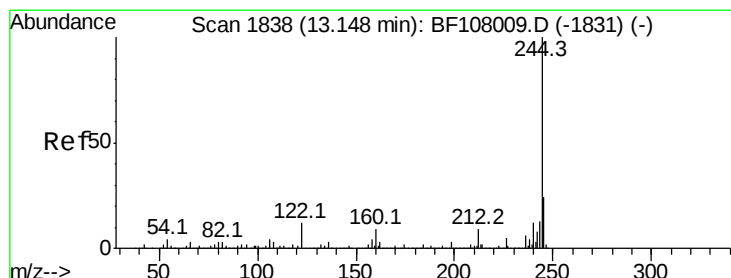
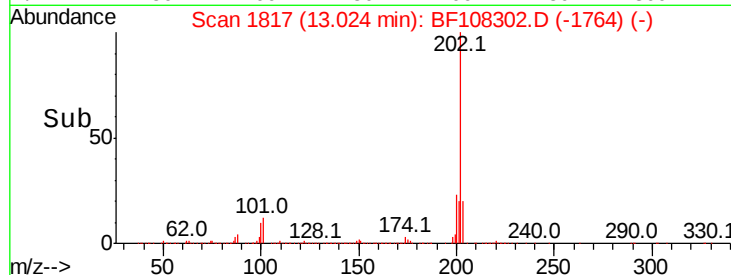
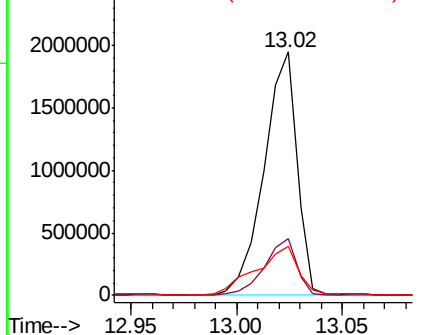


Abundance

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: 8.071 ng

RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF108302.D

Acq: 20 Aug 2018 20:45

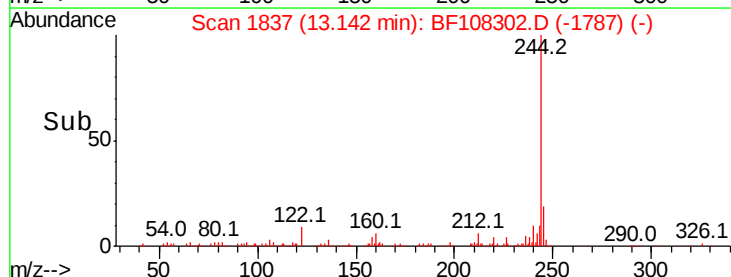
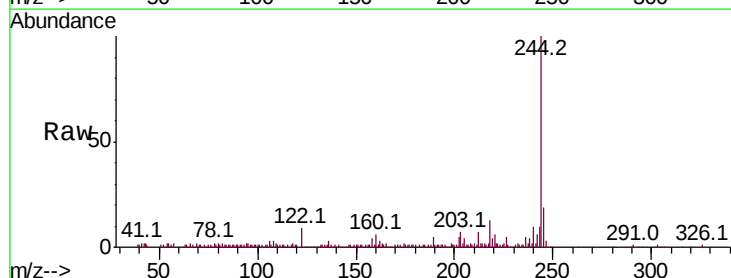
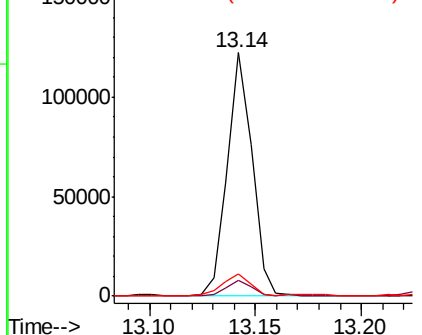
Tgt Ion:	244	Resp:	99408
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	9.2	11.0	16.4#

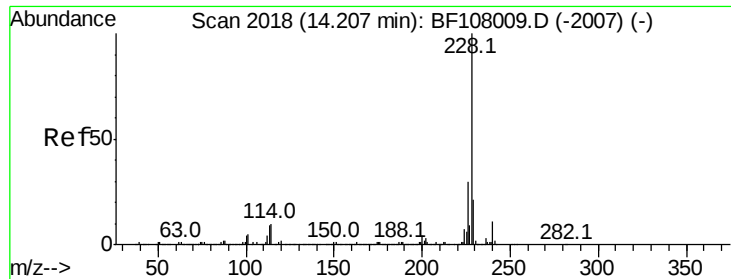
Abundance

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





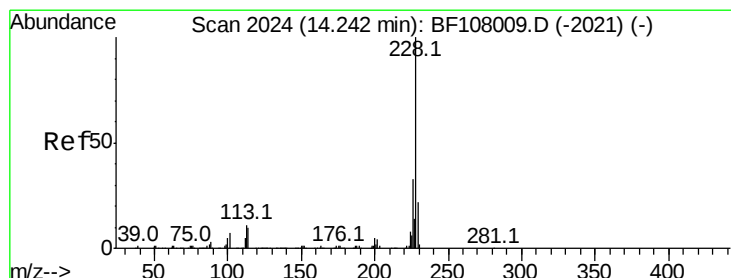
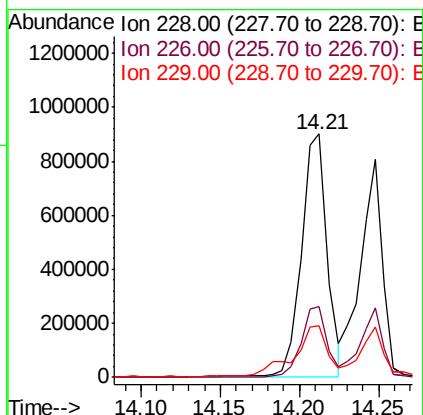
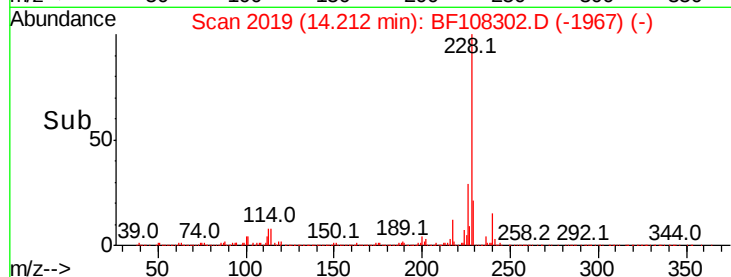
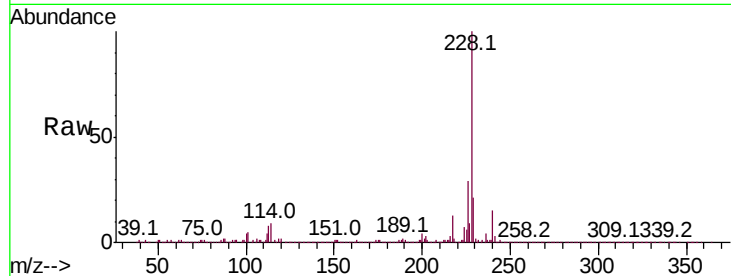
#80
Benzo(a)anthracene
Concen: 55.990 ng
RT: 14.21 min Scan# 2019
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	21.1	15.8	23.6

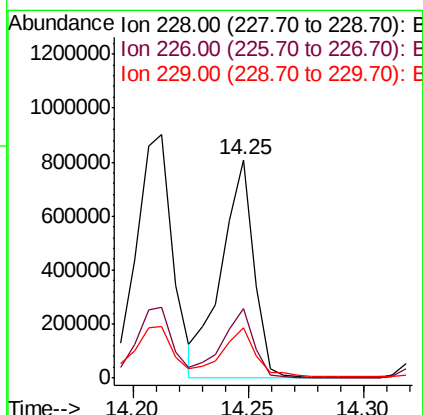
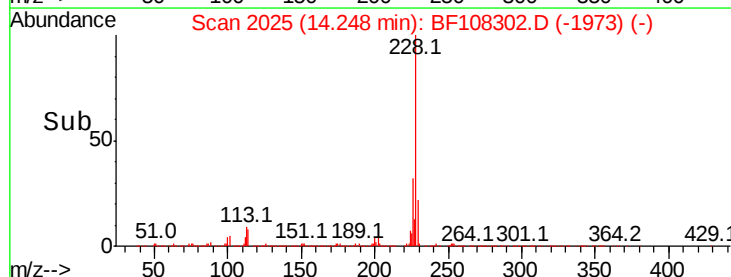
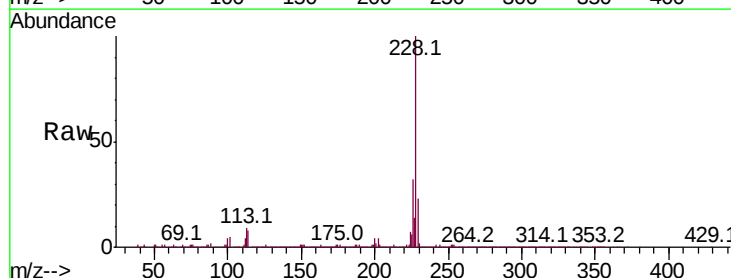
Manual Integrations
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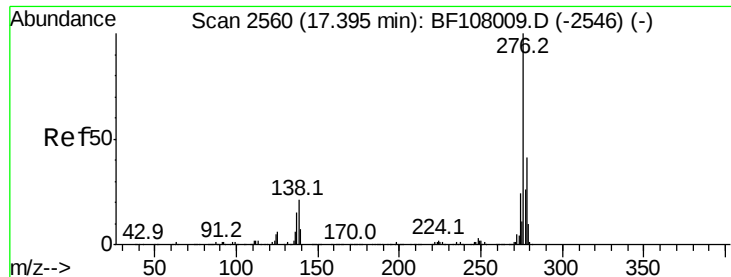
Sohil
8/21/2018 1:43:12 PM



#82
Chrysene
Concen: 47.770 ng
RT: 14.25 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.0	37.6
229	22.9	16.2	24.4





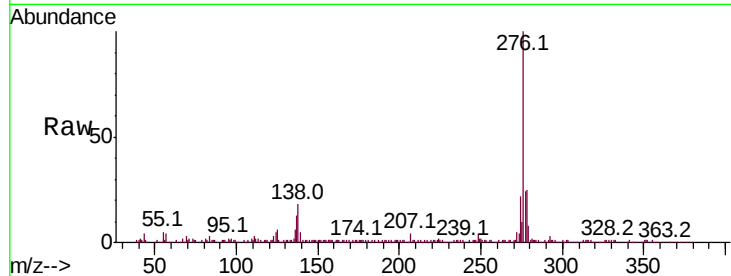
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.683 ng
 RT: 17.41 min Scan# 2563
 Delta R.T. 0.02 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Instrument :
 BNA_F
 ClientSampleId :
 72-11969

Tot Ion	Ratio	Resp	Lower	Upper
276	100	281015		
138	19.1	25.0	37.6#	
277	24.7	20.1	30.1	

Manual Integrations
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 8/21/2018 1:43:12 PM

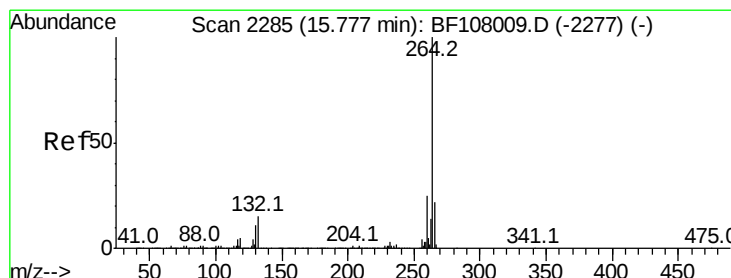
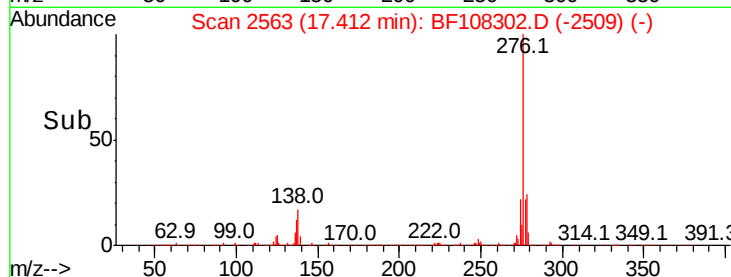
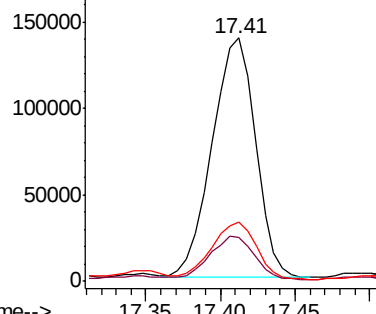


Abundance

Ion 276.00 (275.70 to 276.70): E

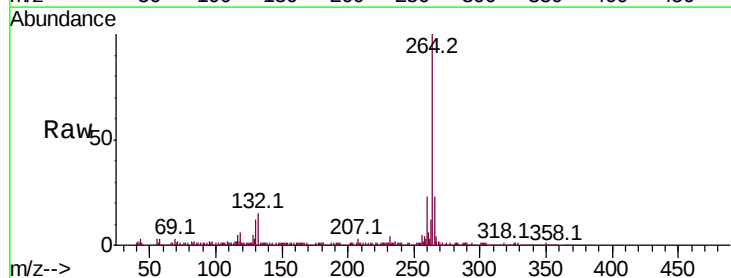
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.78 min Scan# 2286
 Delta R.T. 0.01 min
 Lab File: BF108302.D
 Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	249969		
260	23.3	19.2	28.8	
265	22.6	17.5	26.3	

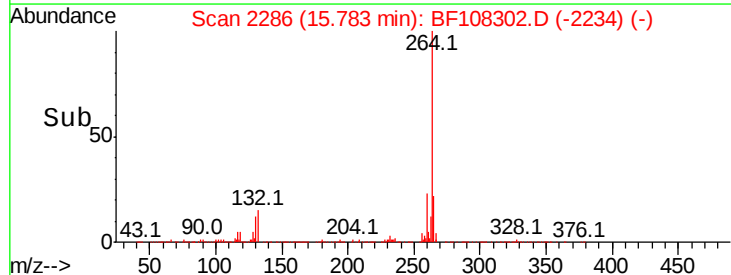
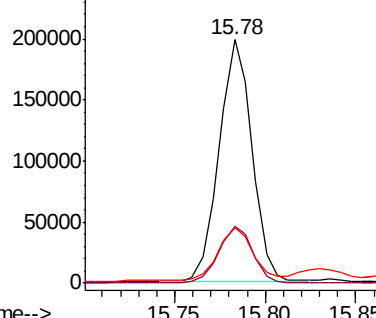


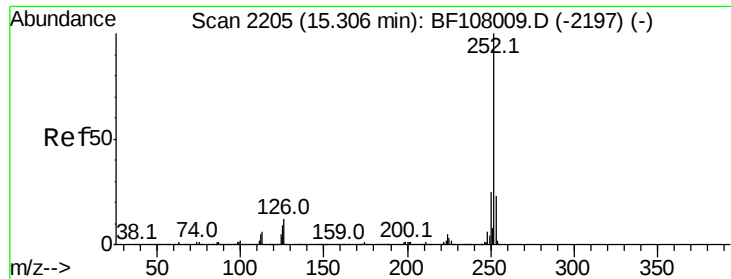
Abundance

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





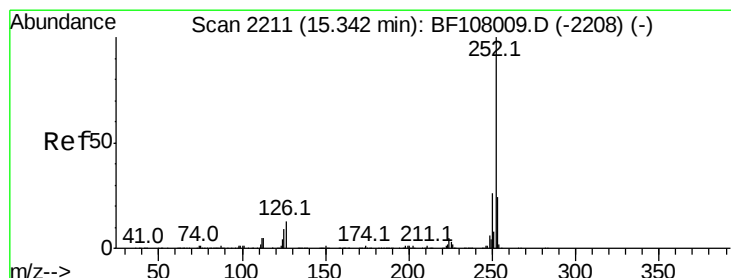
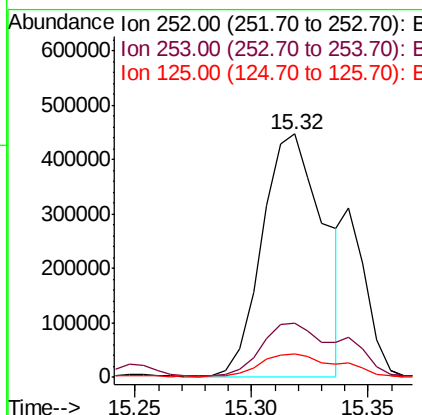
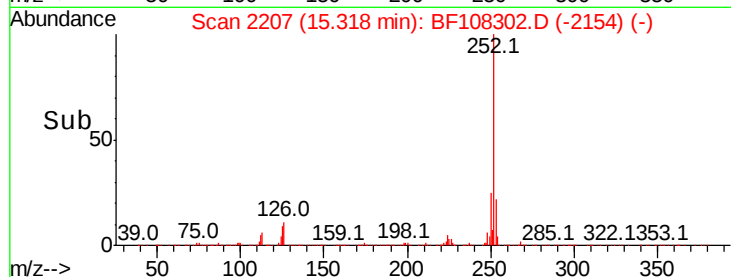
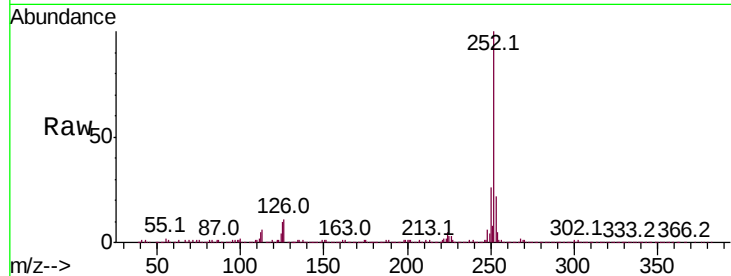
#87
Benzo(b)fluoranthene
Concen: 55.233 ng m
RT: 15.32 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	9.7	9.0	13.6

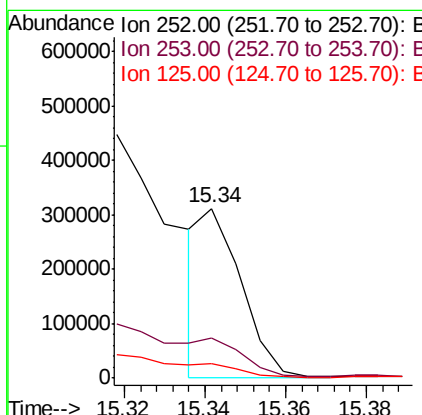
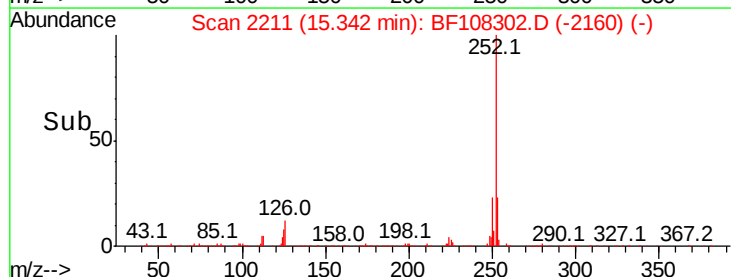
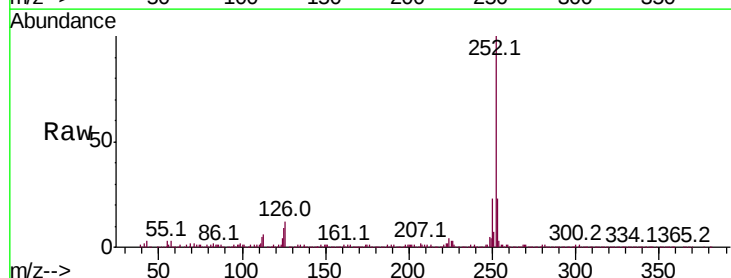
Manual Integrations
APPROVED

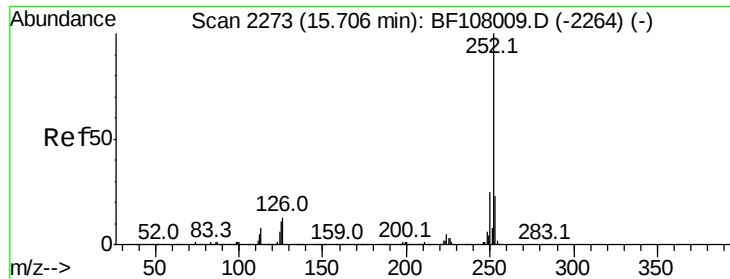
Sohil
8/21/2018 1:43:12 PM



#88
Benzo(k)fluoranthene
Concen: 15.767 ng m
RT: 15.34 min Scan# 2211
Delta R.T. -0.00 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	8.9	10.2	15.2#





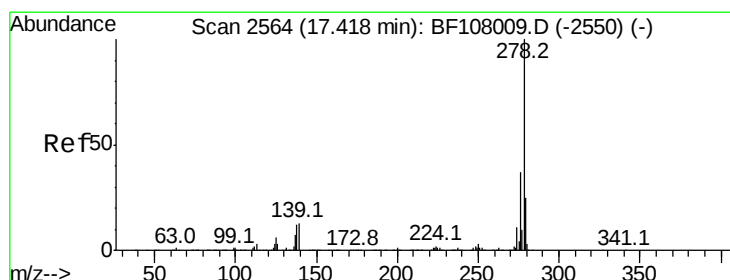
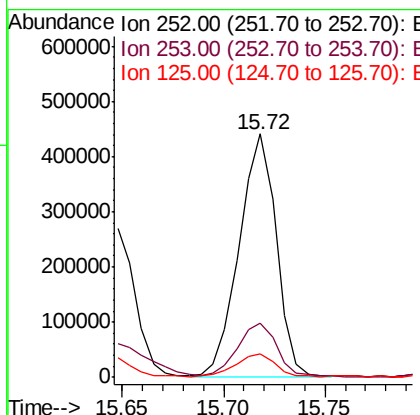
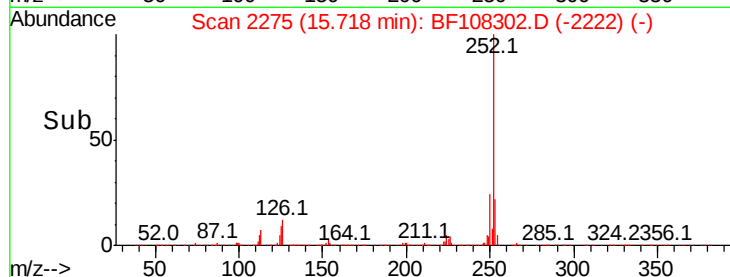
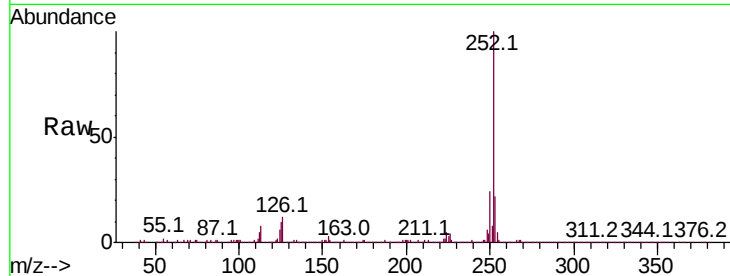
#89
Benzo(a)pyrene
Concen: 41.830 ng m
RT: 15.72 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	9.6	9.8	14.6

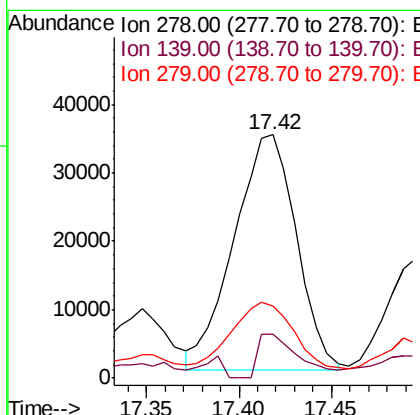
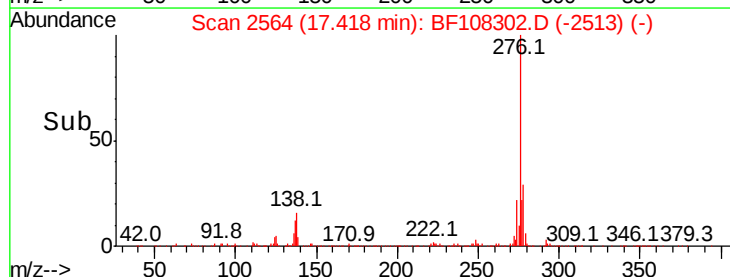
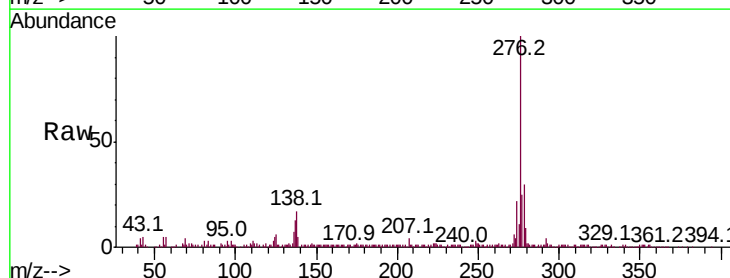
Manual Integrations
APPROVED

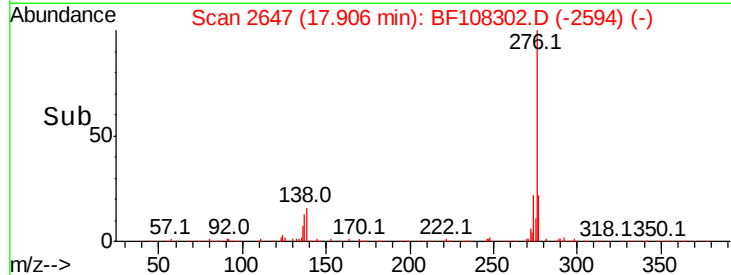
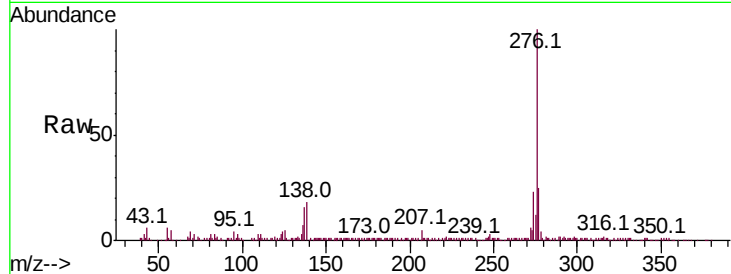
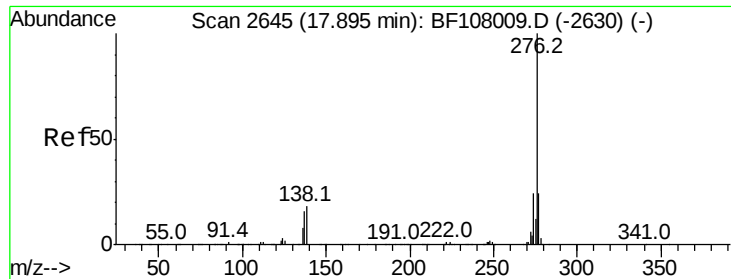
Sohil
8/21/2018 1:43:12 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.309 ng m
RT: 17.42 min Scan# 2564
Delta R.T. -0.00 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.2	15.9	23.9
279	29.6	19.0	28.4





#91
Benzo(a,h,i)perylene
Concen: 22.158 ng
RT: 17.91 min Scan# 2647
Delta R.T. 0.01 min
Lab File: BF108302.D
Acq: 20 Aug 2018 20:45

Instrument :
BNA_F
ClientSampleId :
72-11969

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	18.4	21.8	32.8

Manual Integrations
APPROVED

Sohil
8/21/2018 1:43:12 PM

