

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
 Data File : BF109063.D
 Acq On : 17 Sep 2018 22:03
 Operator : JU/SJ
 Sample : J4936-23
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PHASE-1

Manual Integrations
 APPROVED

Sohil
 9/19/2018 11:54:27 AM

Quant Time: Sep 18 10:05:47 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	113242	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	383116	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	159703	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	179376	20.00	ng	0.02
75) Chrysene-d12	13.89	240	215612	20.00	ng	0.04
86) Perylene-d12	15.28	264	210254	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	496337	72.80	ng	0.00
7) Phenol-d6	6.35	99	604738	68.79	ng	0.00
23) Nitrobenzene-d5	7.28	82	362716	53.10	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	108307	62.49	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	518896	50.91	ng	0.00
78) Terphenyl-d14	12.87	244	295191	32.45	ng	0.05
Target Compounds						
31) Naphthalene	8.02	128	119839	6.739	ng	98
37) 2-Methylnaphthalene	8.71	142	85086	7.340	ng	100
48) Acenaphthylene	9.61	152	40322	2.614	ng	# 90
49) Dimethylphthalate	9.47	163	92624	8.115	ng	# 96
54) Dibenzofuran	9.95	168	35012	2.522	ng	# 79
57) Fluorene	10.30	166	20347	2.199	ng	# 73
70) Phenanthrene	11.28	178	201531	22.919	ng	# 80
71) Anthracene	11.32	178	50267m	5.639	ng	
74) Fluoranthene	12.49	202	270863	29.179	ng	86
77) Pyrene	12.72	202	272663	17.025	ng	# 90
80) Benzo(a)anthracene	13.89	228	240672	18.437	ng	# 90
82) Chrysene	13.92	228	247398	18.943	ng	# 95
83) Bis(2-ethylhexyl)phthalate	13.88	149	60993	7.042	ng	# 82
85) Indeno(1,2,3-cd)pyrene	16.62	276	123634	11.840	ng	# 88
87) Benzo(b)fluoranthene	14.89	252	309687m	26.624	ng	
88) Benzo(k)fluoranthene	14.91	252	72240m	6.649	ng	
89) Benzo(a)pyrene	15.22	252	200134	19.374	ng	97
90) Dibenzo(a,h)anthracene	16.63	278	32050m	3.693	ng	
91) Benzo(a,h,i)perylene	17.02	276	111439	12.844	ng	93

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

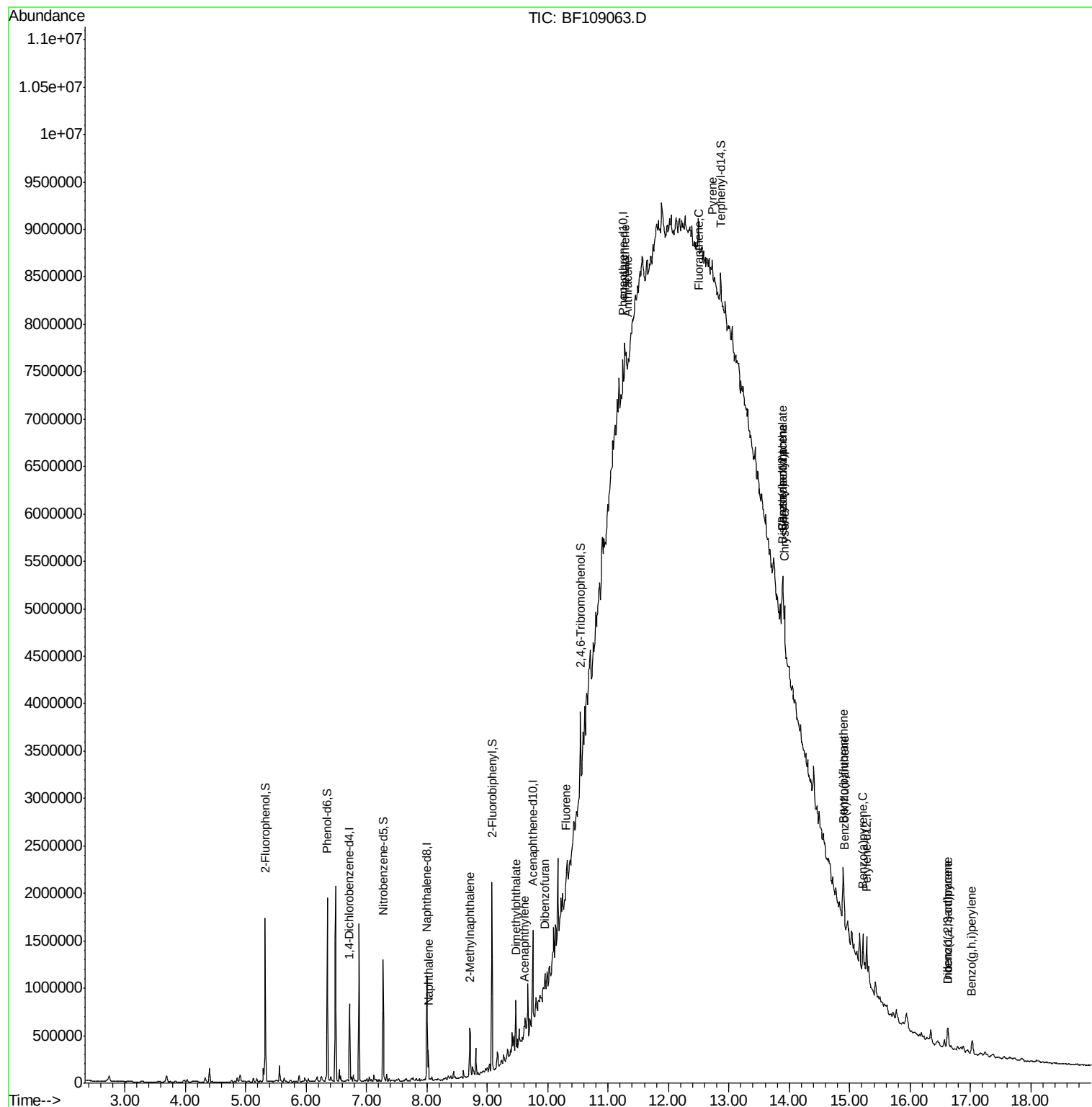
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109063.D
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ALS Vial : 27 Sample Multiplier: 1

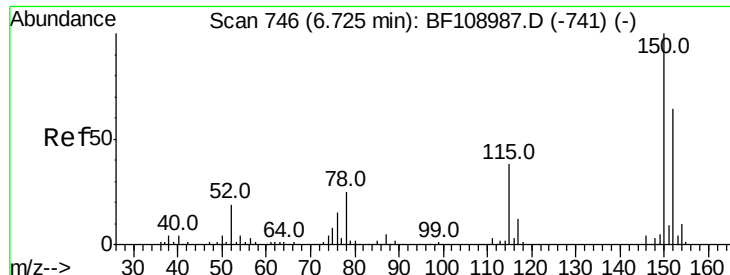
Instrument :
BNA_F
ClientSampleId :
PHASE-1

Quant Time: Sep 18 10:05:47 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
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#1

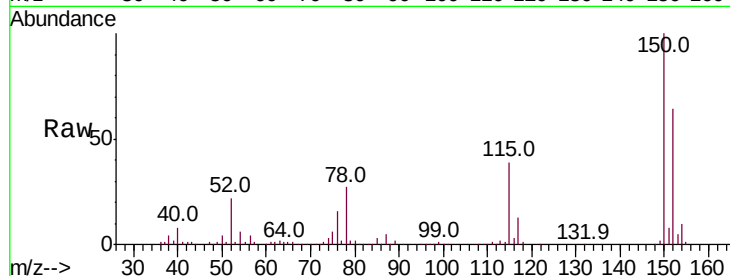
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampleId :
PHASE-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.6	186.8
115	62.1	50.1	75.1

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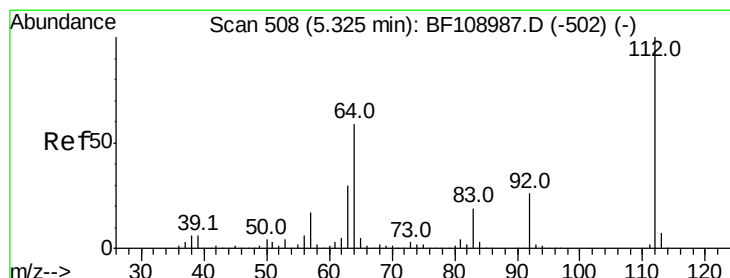
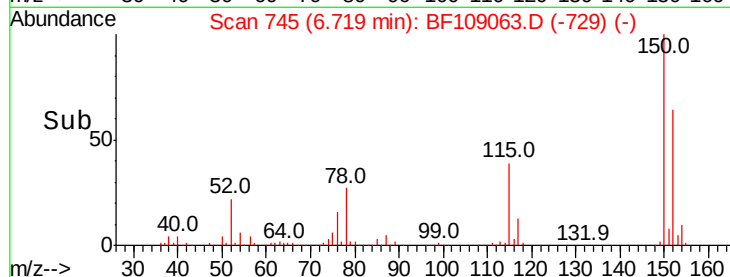
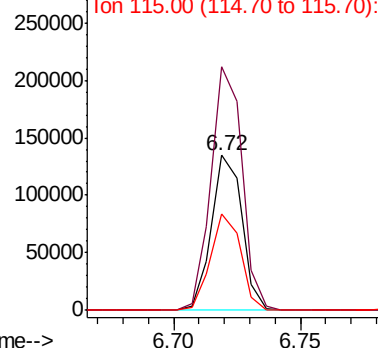


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

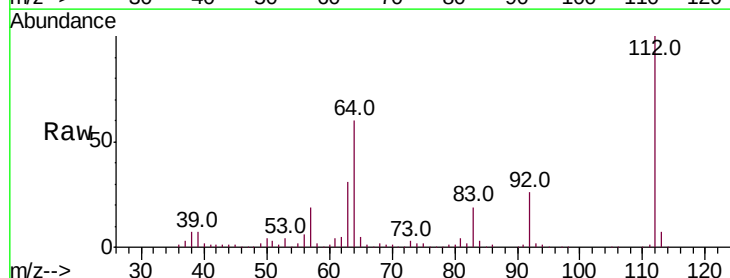
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 72.796 ng
RT: 5.32 min Scan# 508
Delta R.T. 0.00 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.9	71.9
63	31.1	23.7	35.5

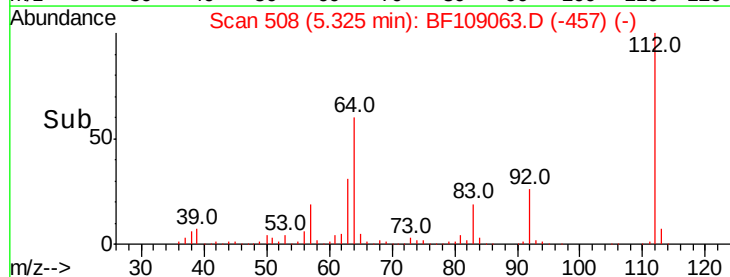
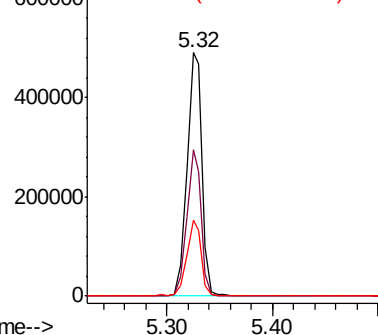


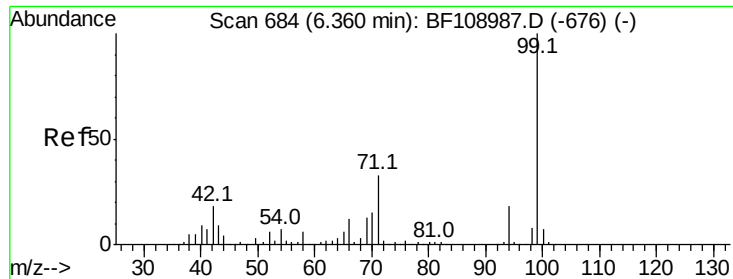
Abundance

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: 68.785 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

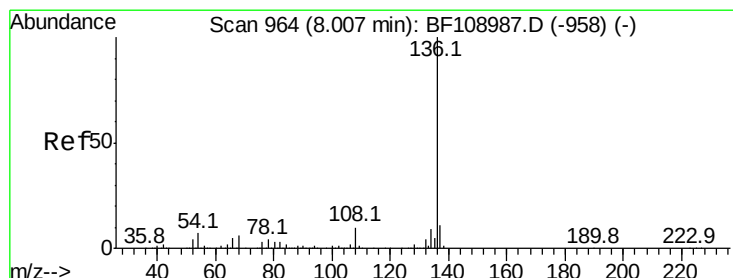
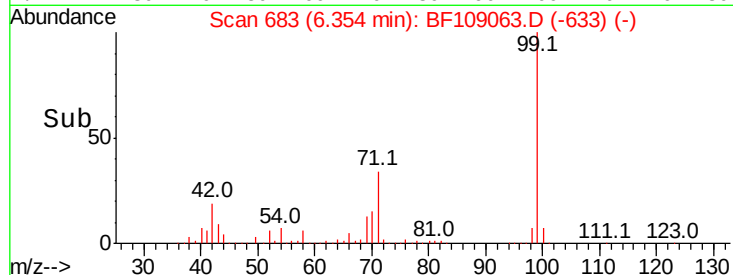
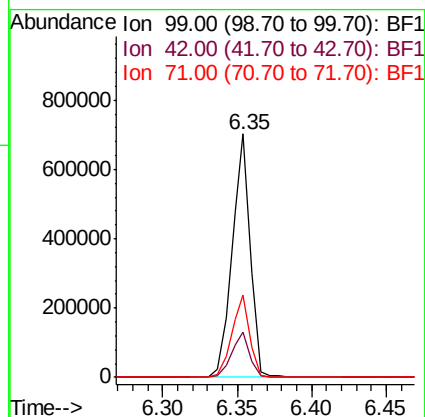
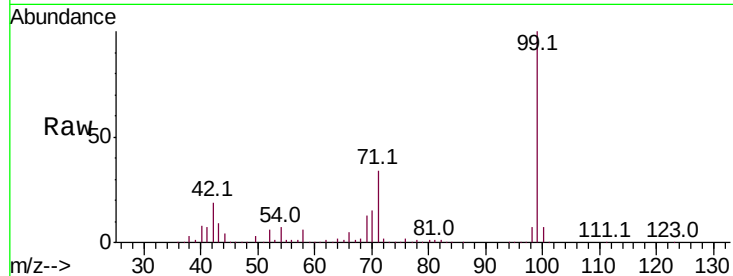
ClientSampleId :

PHASE-1

Tot Ion:	99	Resp:	604738
Ion Ratio	Lower	Upper	
99	100		
42	18.8	14.5	21.7
71	33.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

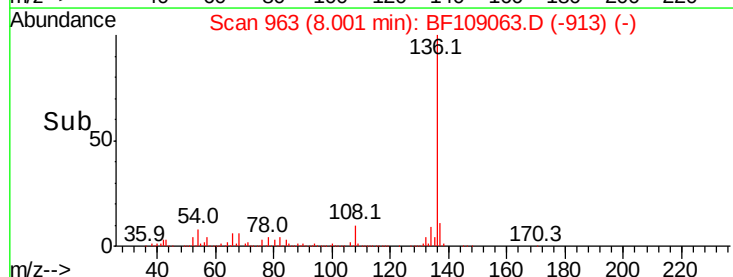
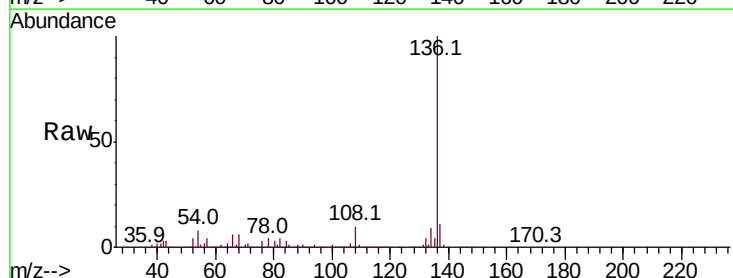
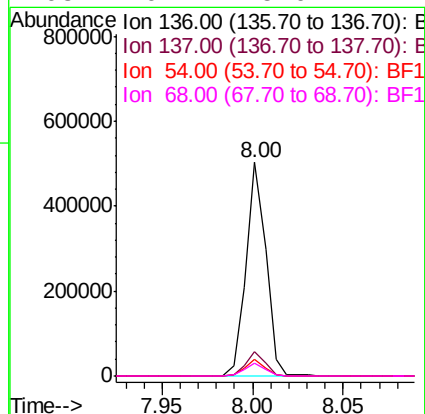
RT: 8.00 min Scan# 963

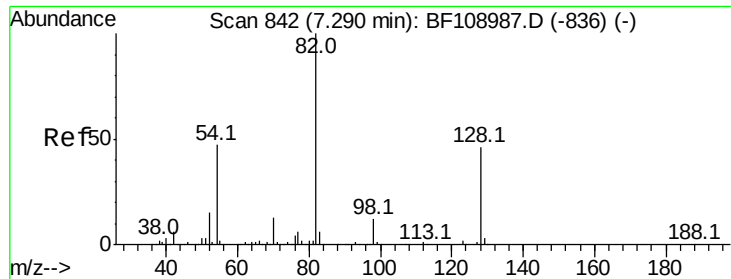
Delta R.T. -0.01 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Tgt Ion:	136	Resp:	383116
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.5	6.6	9.8
68	6.1	5.0	7.4





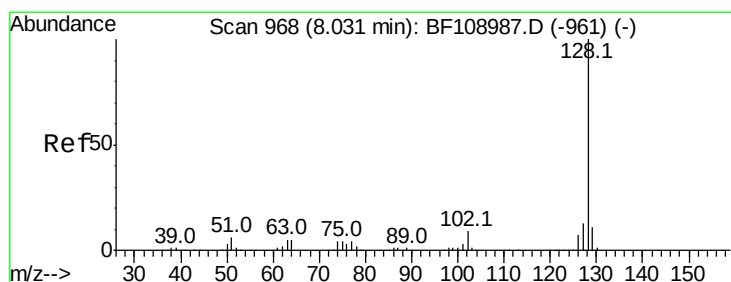
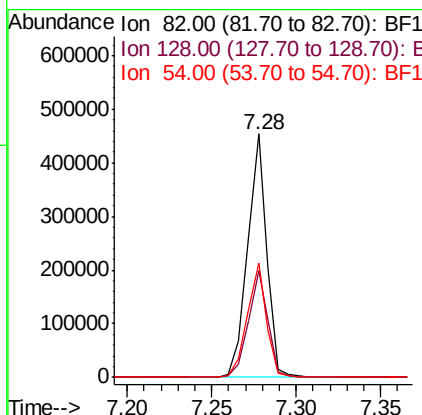
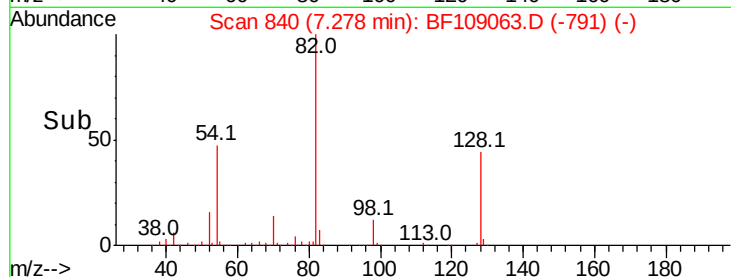
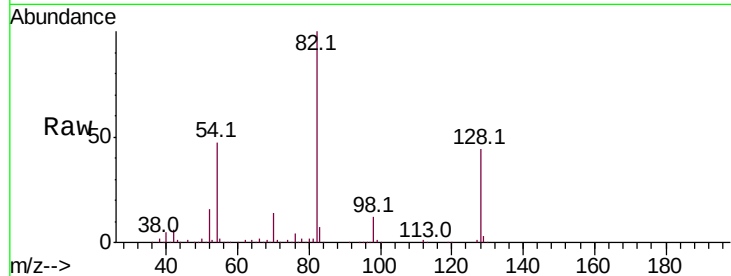
#23
Nitrobenzene-d5
Concen: 53.102 ng
RT: 7.28 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampled :
PHASE-1

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.6	36.1	54.1	
54	46.9	41.4	62.2	

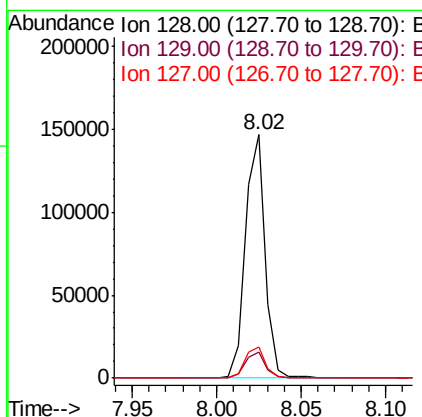
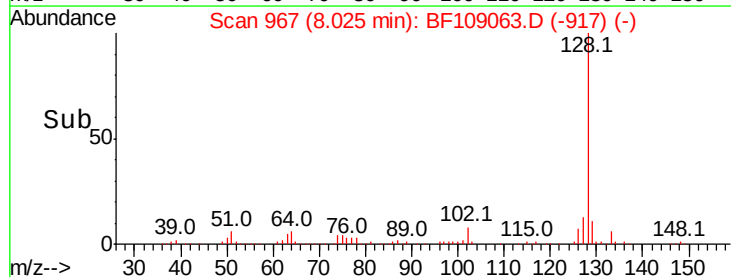
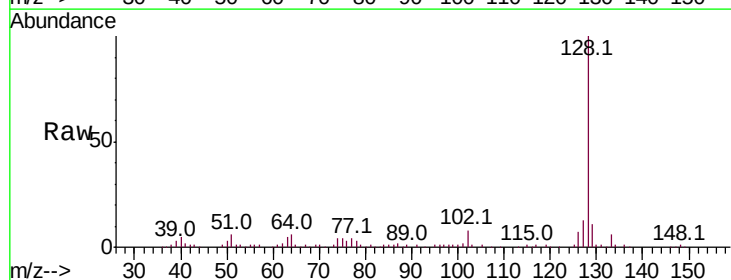
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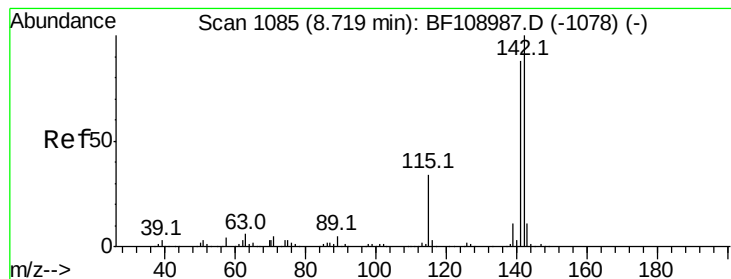
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#31
Naphthalene
Concen: 6.739 ng
RT: 8.02 min Scan# 967
Delta R.T. -0.01 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.6	8.8	13.2	
127	12.7	10.9	16.3	





#37

2-Methylnaphthalene

Concen: 7.340 ng

RT: 8.71 min Scan# 1084

Delta R.T. -0.01 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

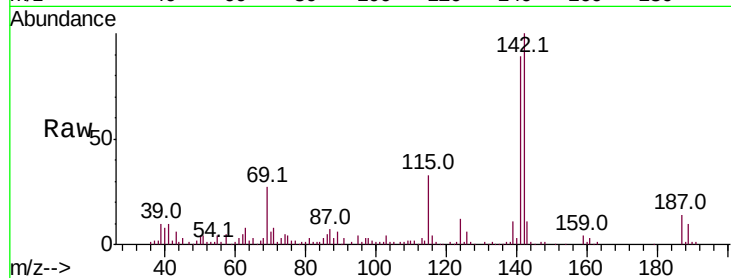
ClientSampled :

PHASE-1

Tot Ion:	142	Resp:	85086
Ion Ratio	Lower	Upper	
142	100		
141	88.6	70.8	106.2
115	33.4	26.1	39.1

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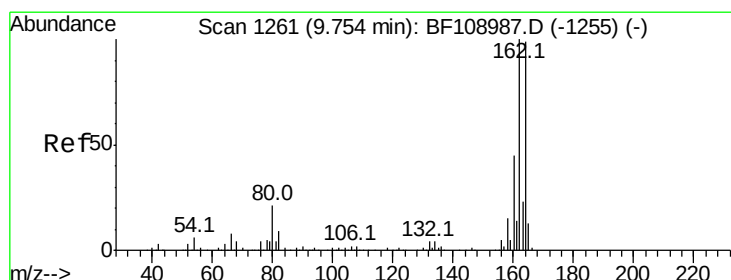
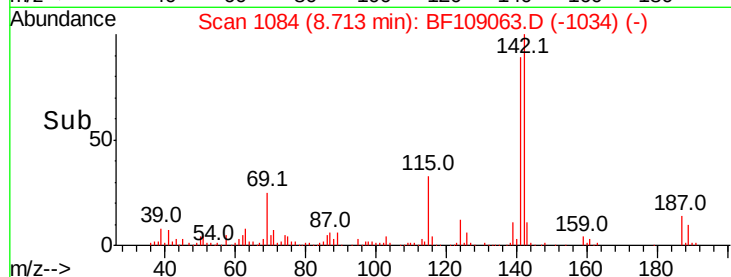
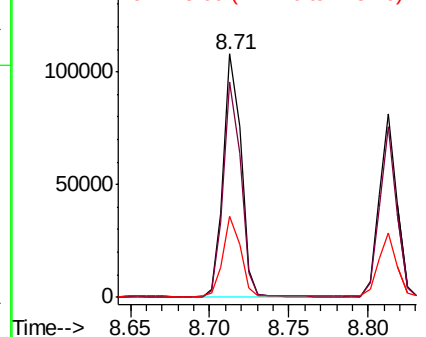


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1261

Delta R.T. -0.00 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

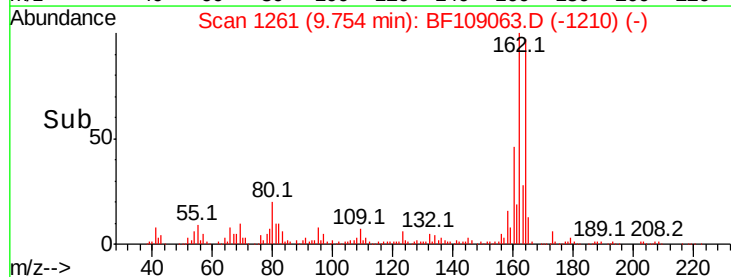
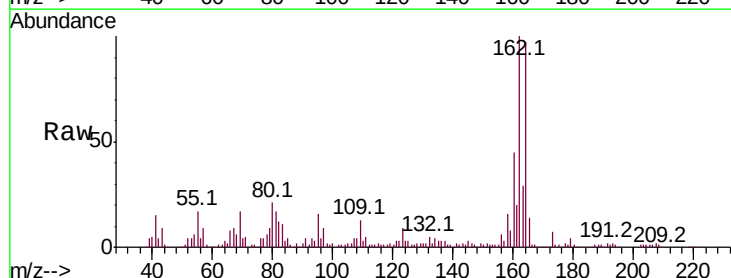
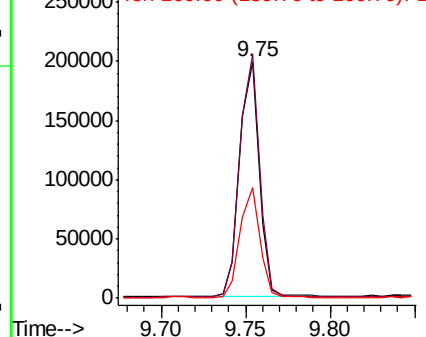
Tgt Ion:	164	Resp:	159703
Ion Ratio	Lower	Upper	
164	100		
162	103.1	86.1	129.1
160	46.7	38.3	57.5

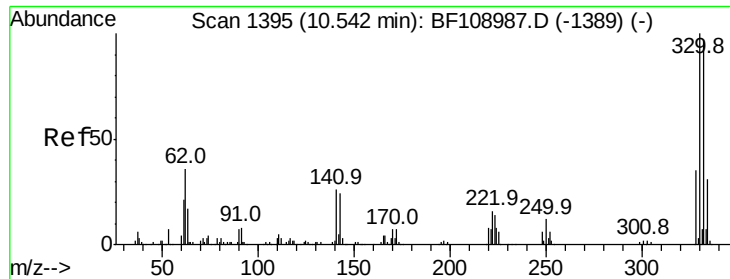
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





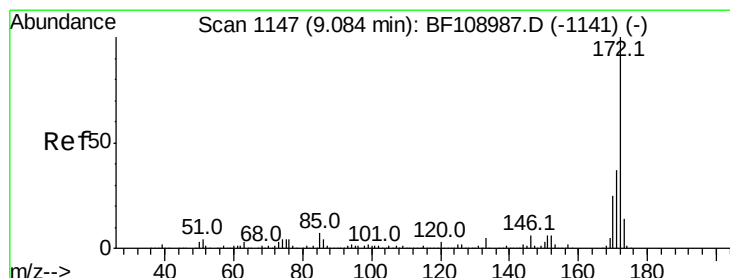
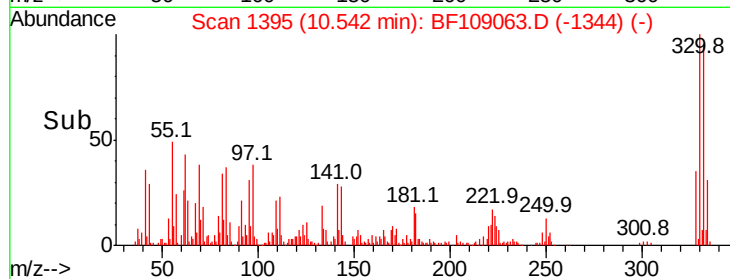
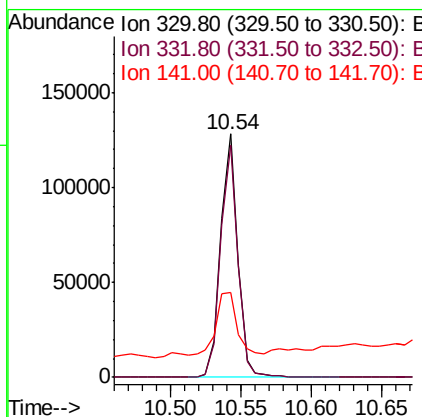
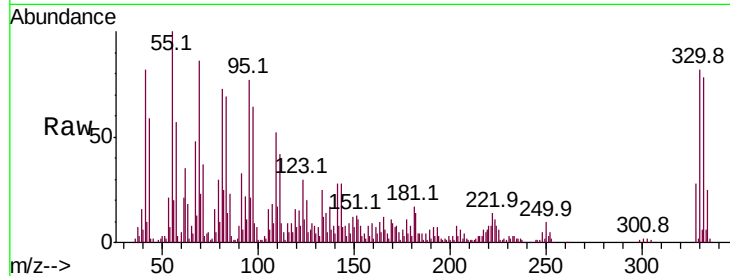
#41
 2,4,6-Tribromophenol
 Concen: 62.489 ng
 RT: 10.54 min Scan# 1395
 Delta R.T. -0.00 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Instrument :
 BNA_F
 ClientSampled :
 PHASE-1

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.1	77.0	115.6	
141	31.0	29.9	44.9	

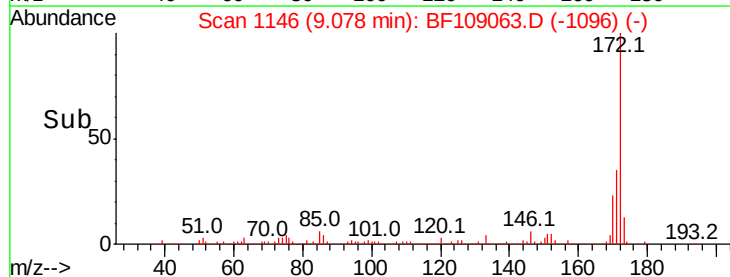
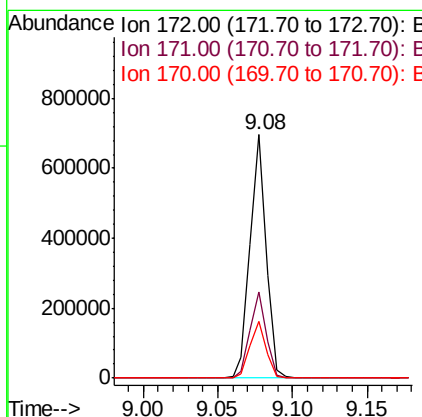
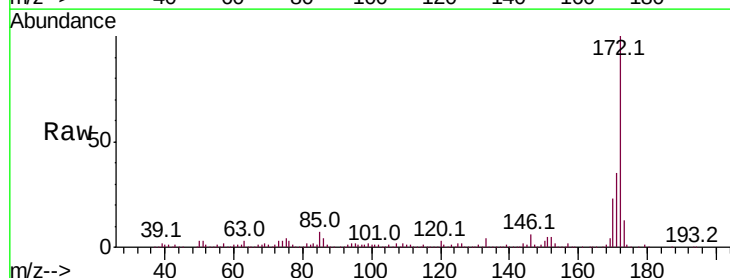
Manual Integrations
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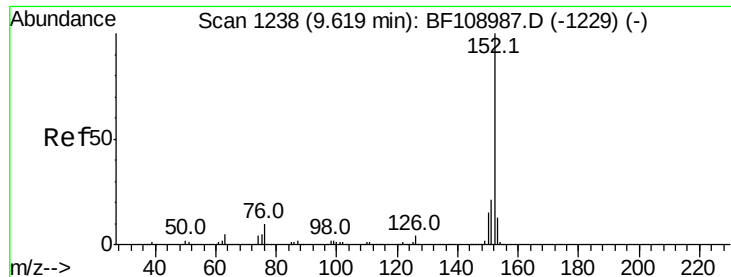
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#44
 2-Fluorobiphenyl
 Concen: 50.905 ng
 RT: 9.08 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.7	44.5	
170	23.5	19.6	29.4	





#48

Acenaphthylene

Concen: 2.614 ng

RT: 9.61 min Scan# 1237

Delta R.T. -0.01 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

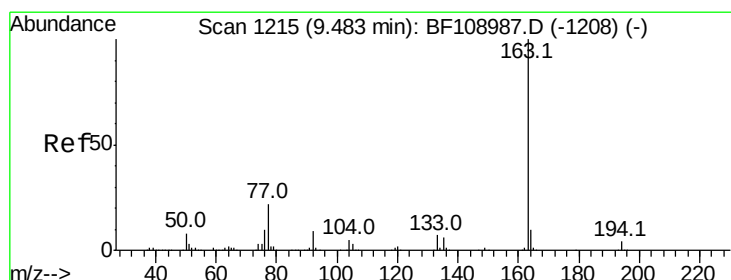
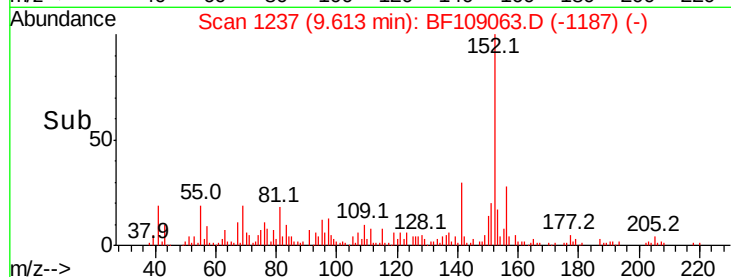
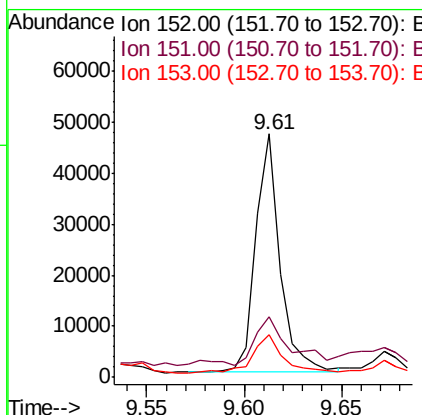
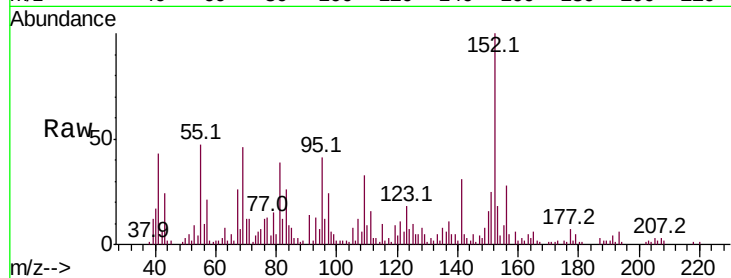
ClientSampleId :

PHASE-1

Tot Ion	Ratio	Lower	Upper
152	100		
151	24.7	16.3	24.5#
153	17.7	10.7	16.1#

Manual Integrations
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#49

Dimethylphthalate

Concen: 8.115 ng

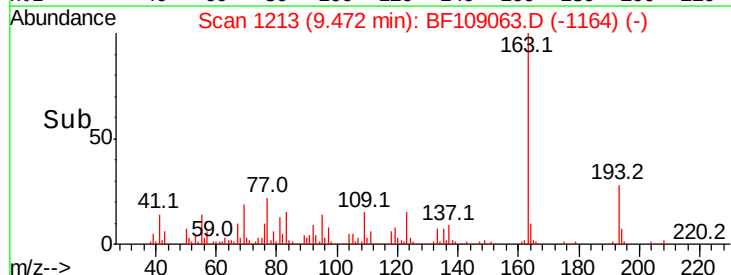
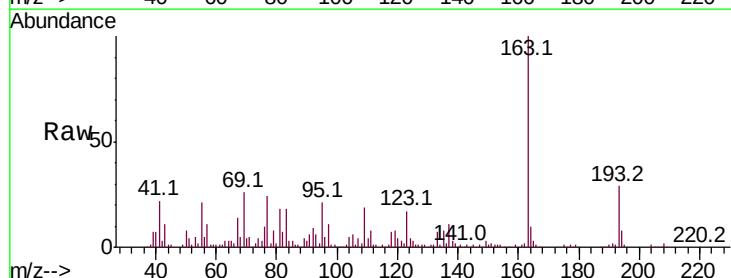
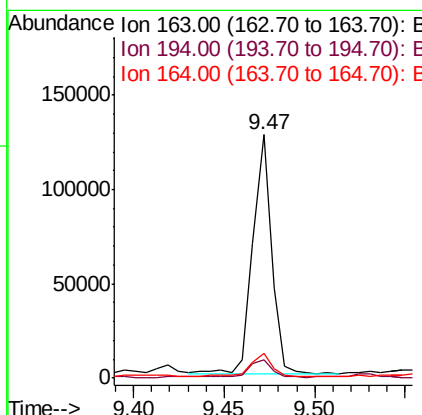
RT: 9.47 min Scan# 1213

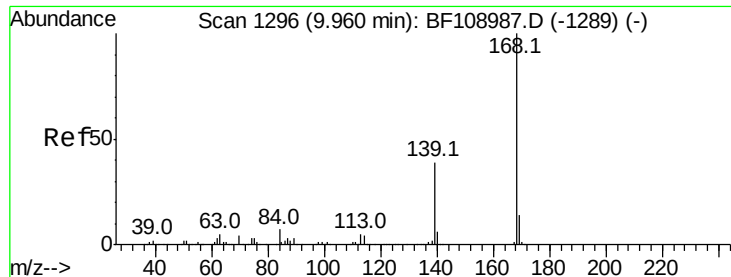
Delta R.T. -0.01 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	7.7	2.7	4.1#
164	10.4	8.2	12.2





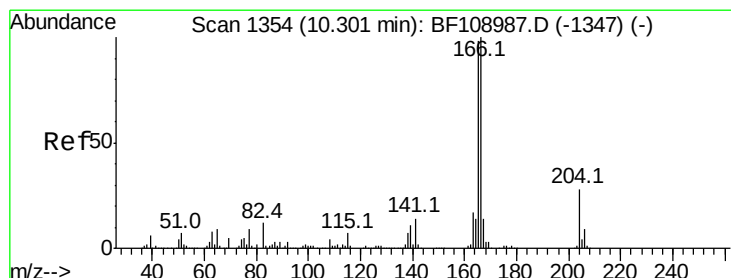
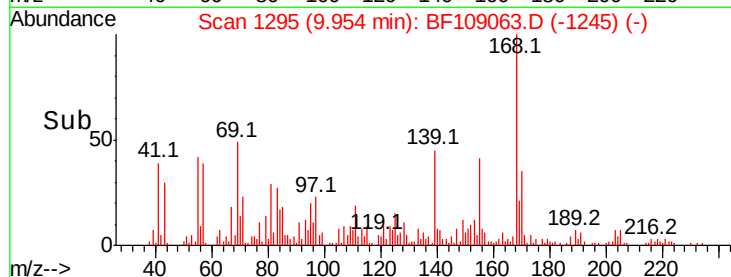
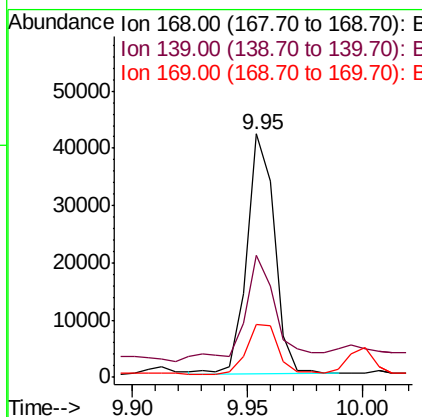
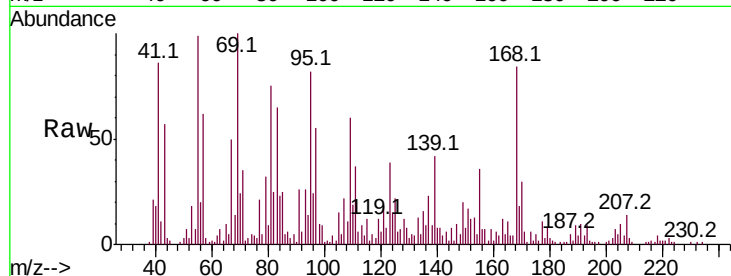
#54
Dibenzenofuran
Concen: 2.522 ng
RT: 9.95 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampleId :
PHASE-1

Tot Ion	Ratio	Lower	Upper
168	100		
139	49.9	30.1	45.1#
169	21.8	10.9	16.3#

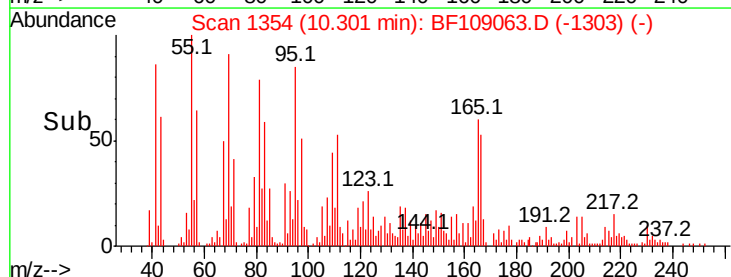
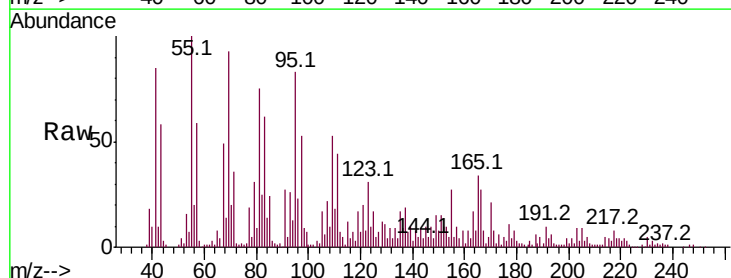
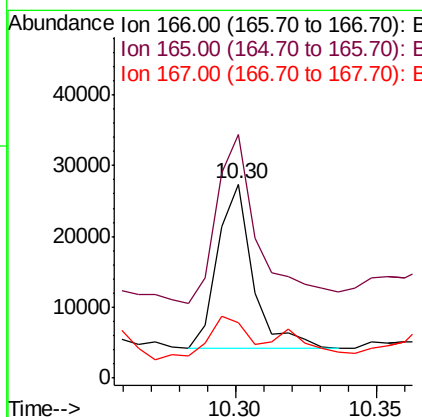
Manual Integrations
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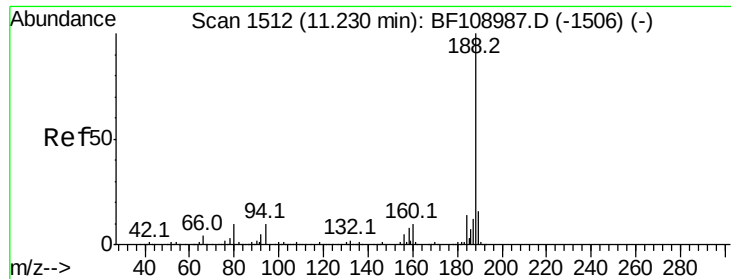
Sohil
9/19/2018 11:54:27 AM



#57
Fluorene
Concen: 2.199 ng
RT: 10.30 min Scan# 1354
Delta R.T. 0.00 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	125.4	79.8	119.8#
167	28.7	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1515

Delta R.T. 0.02 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

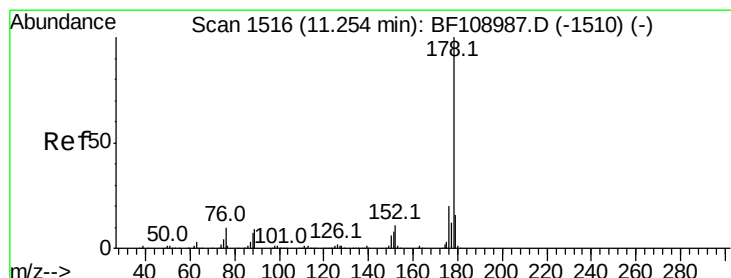
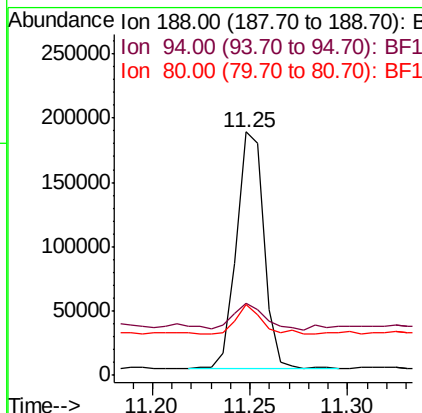
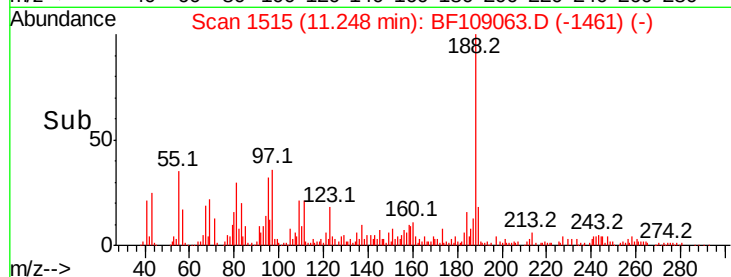
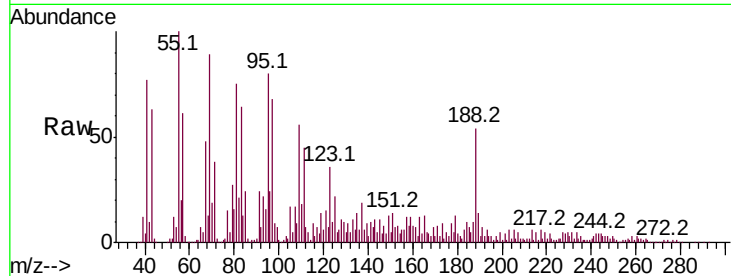
ClientSampleId :

PHASE-1

Tot Ion:188	Resp:	179376
Ion Ratio	Lower	Upper
188 100		
94 29.7	8.5	12.7#
80 29.0	9.2	13.8#

Manual Integrations
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#70

Phenanthrene

Concen: 22.919 ng

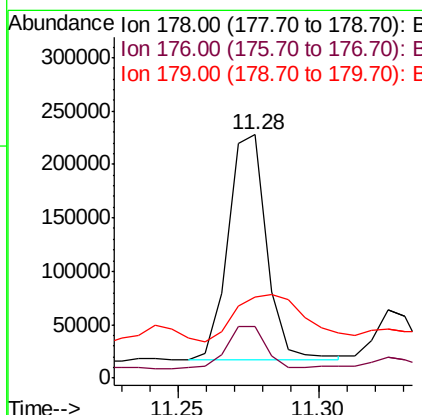
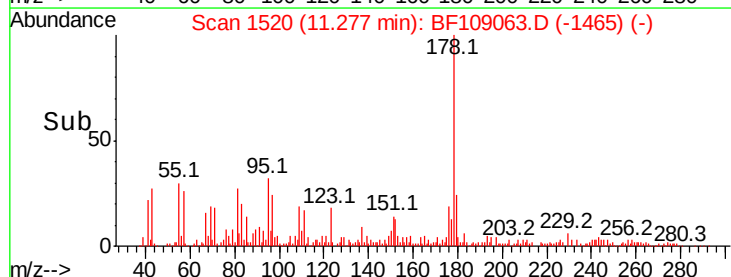
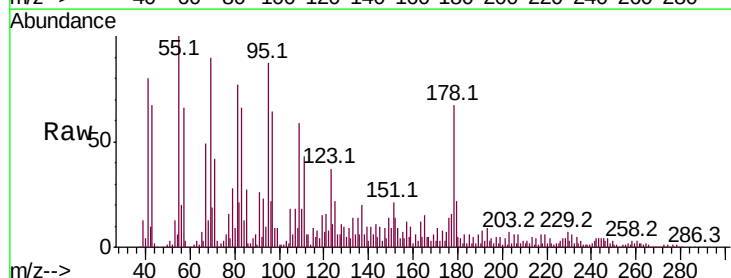
RT: 11.28 min Scan# 1520

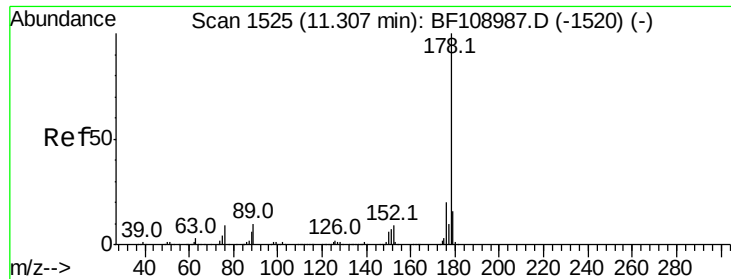
Delta R.T. 0.02 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Tgt Ion:178	Resp:	201531
Ion Ratio	Lower	Upper
178 100		
176 21.1	15.8	23.8
179 33.3	13.0	19.6#





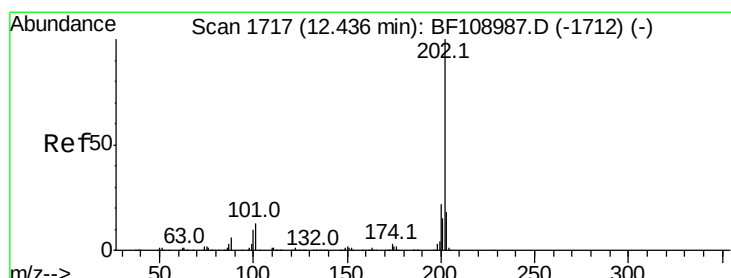
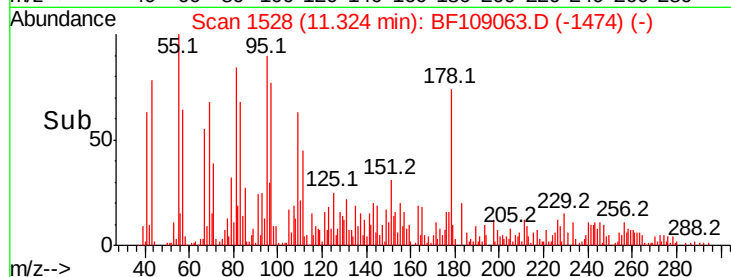
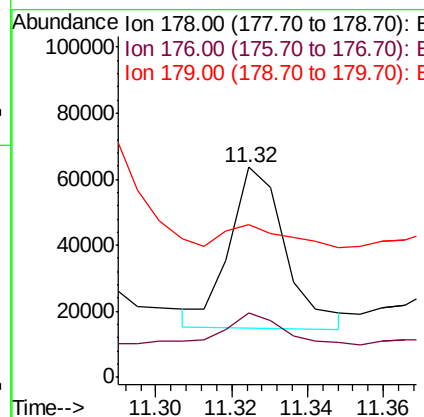
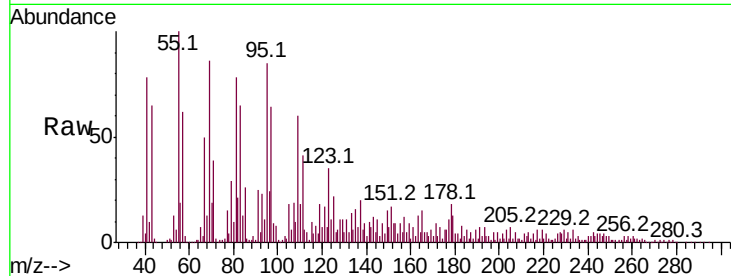
#71
 Anthracene
 Concen: 5.639 ng/mL
 RT: 11.32 min Scan# 1528
 Delta R.T. 0.02 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Instrument :
 BNA_F
 ClientSampled :
 PHASE-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	30.6	15.4	23.2
179	72.5	12.6	19.0

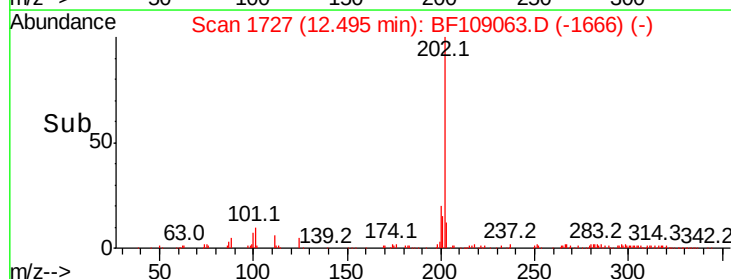
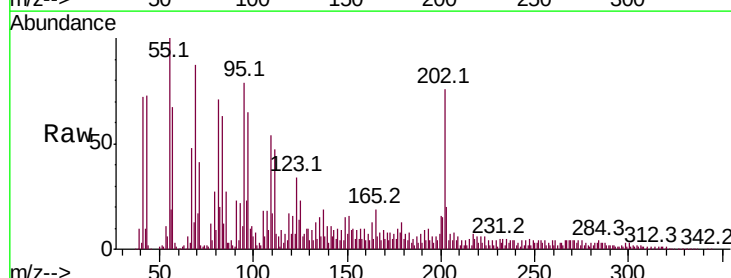
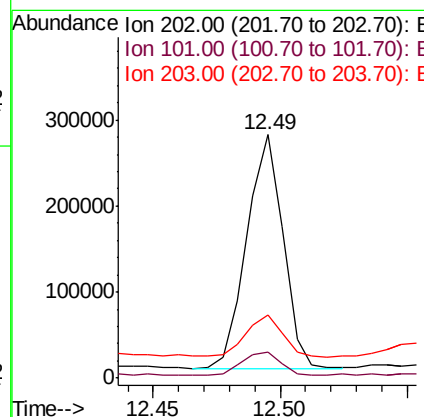
Manual Integrations
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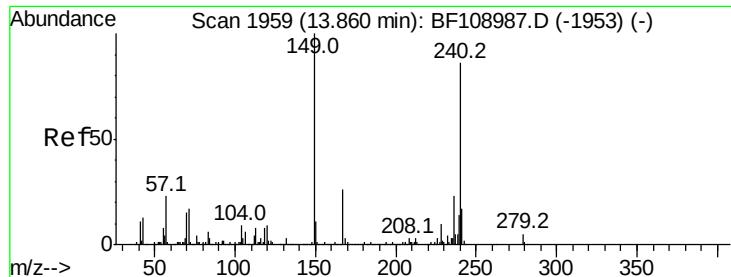
Sohil
 9/19/2018 11:54:27 AM



#74
 Fluoranthene
 Concen: 29.179 ng/mL
 RT: 12.49 min Scan# 1727
 Delta R.T. 0.06 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	34.1
203	26.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 1965

Delta R.T. 0.04 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

ClientSampleId :

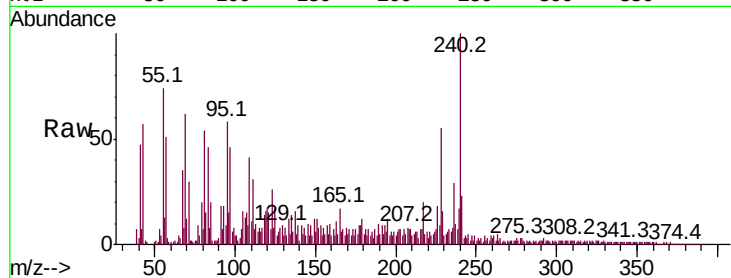
PHASE-1

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	17.1	9.5	14.3	
236	28.8	20.7	31.1	

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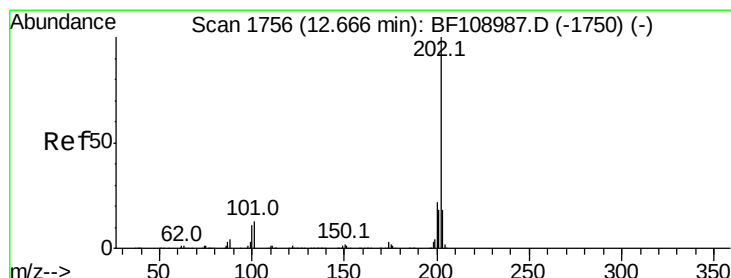
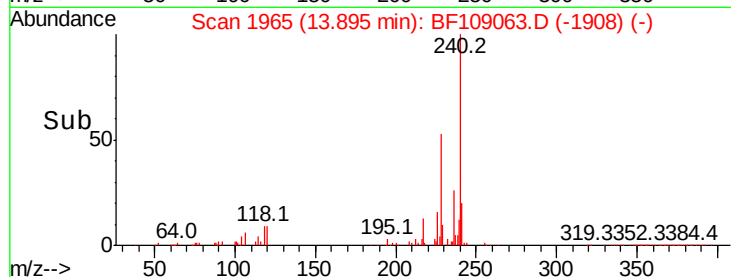
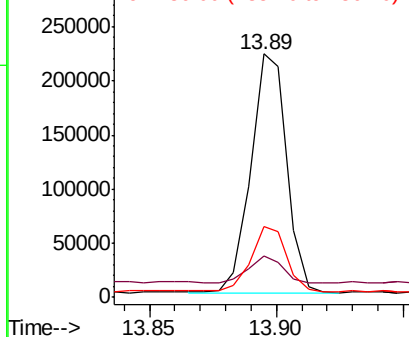


Abundance

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: 17.025 ng

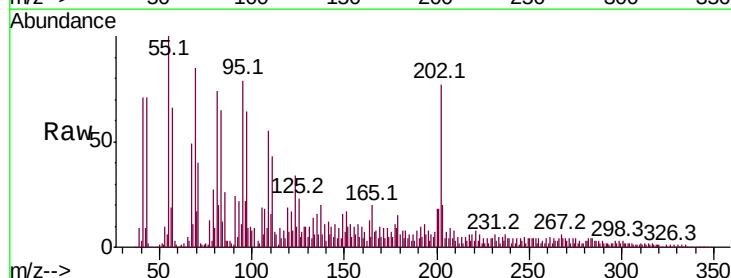
RT: 12.72 min Scan# 1766

Delta R.T. 0.06 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	23.0	17.4	26.2	
203	26.3	14.3	21.5	

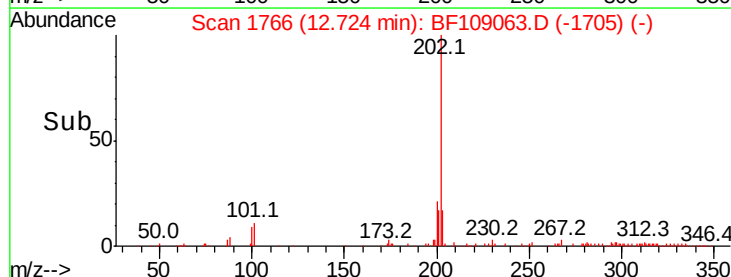
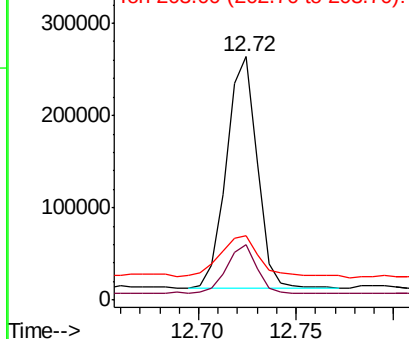


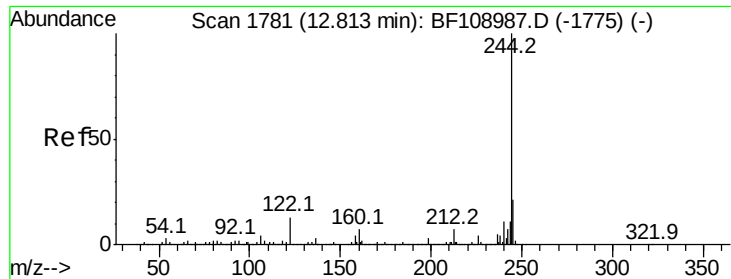
Abundance

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: 32.451 ng

RT: 12.87 min Scan# 1790

Delta R.T. 0.05 min

Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Instrument :

BNA_F

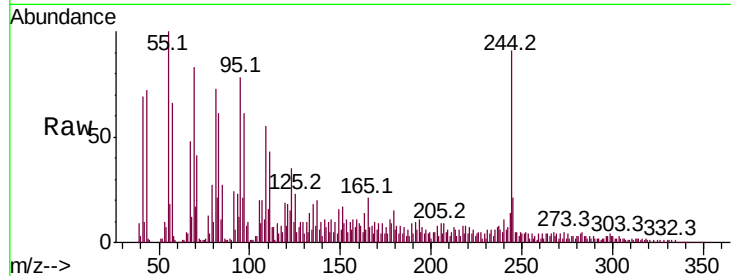
ClientSampled :

PHASE-1

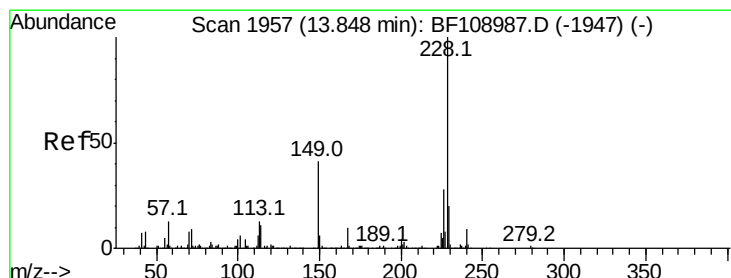
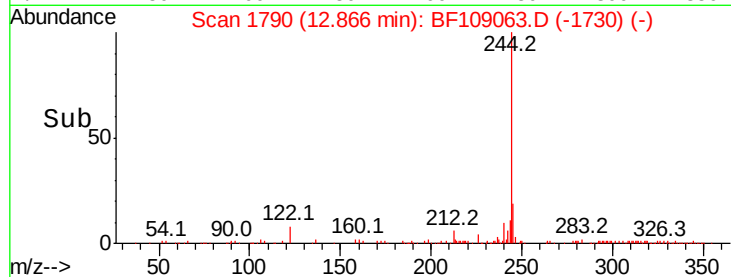
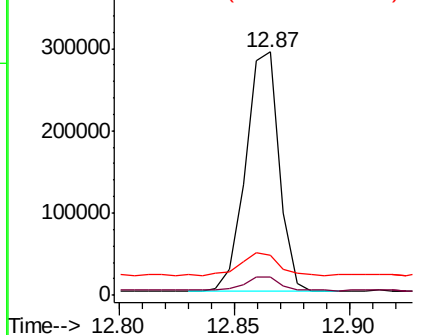
Tot Ion:	244	Resp:	295191
Ion Ratio	Lower	Upper	
244	100		
212	7.7	5.4	8.0
122	16.6	11.0	16.4

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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: 18.437 ng

RT: 13.89 min Scan# 1964

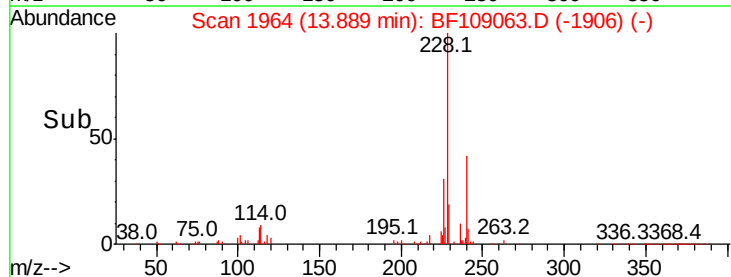
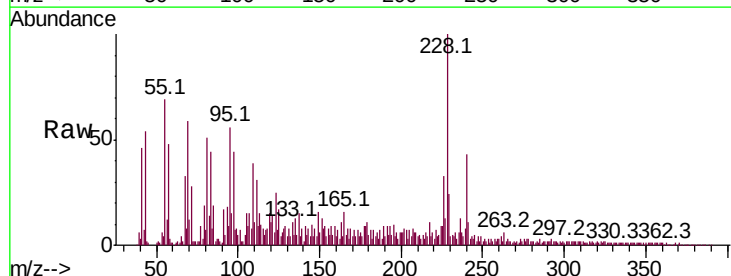
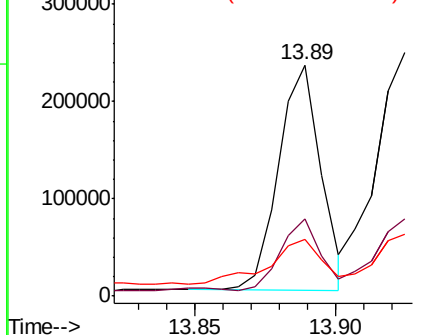
Delta R.T. 0.04 min

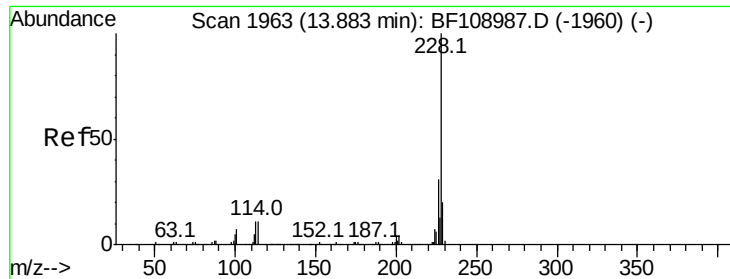
Lab File: BF109063.D

Acq: 17 Sep 2018 22:03

Tgt Ion:	228	Resp:	240672
Ion Ratio	Lower	Upper	
228	100		
226	33.2	22.6	33.8
229	24.5	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





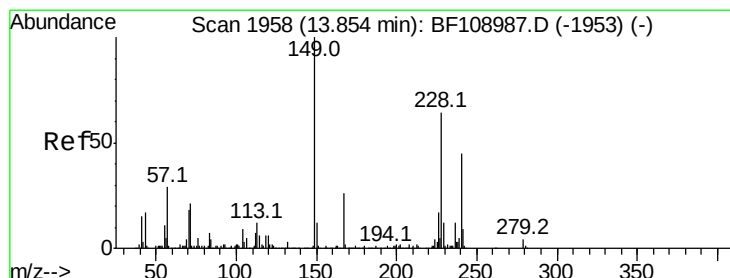
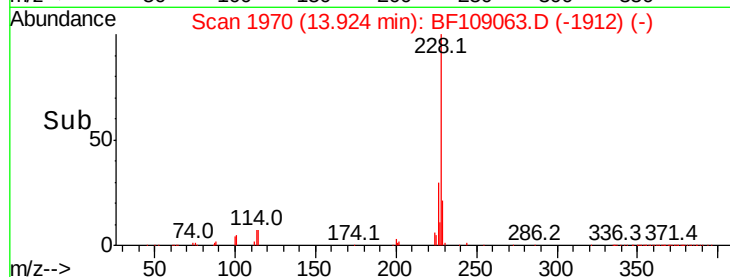
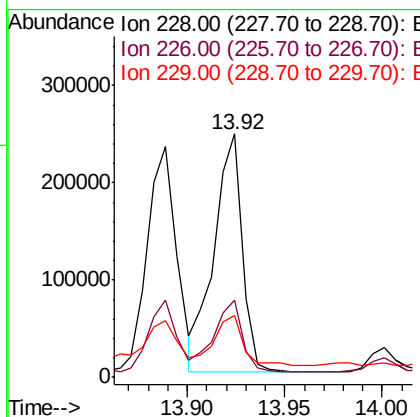
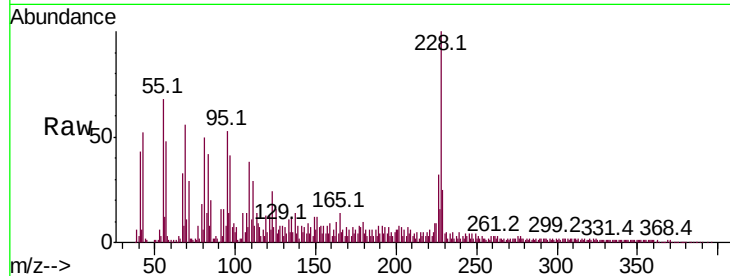
#82
Chrysene
Concen: 18.943 ng
RT: 13.92 min Scan# 1970
Delta R.T. 0.04 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampleId :
PHASE-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.0	37.6
229	25.3	16.2	24.4#

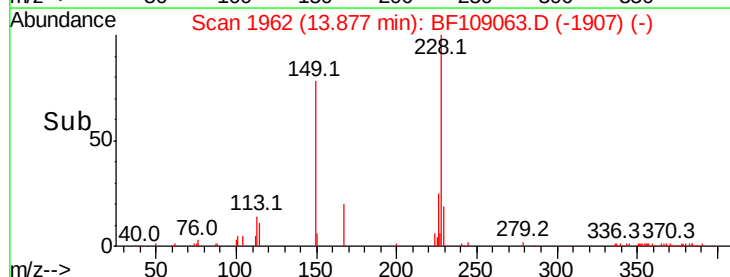
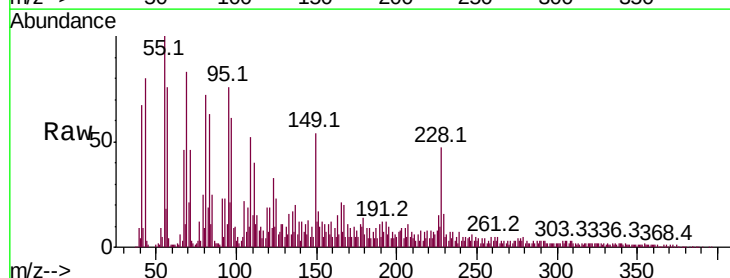
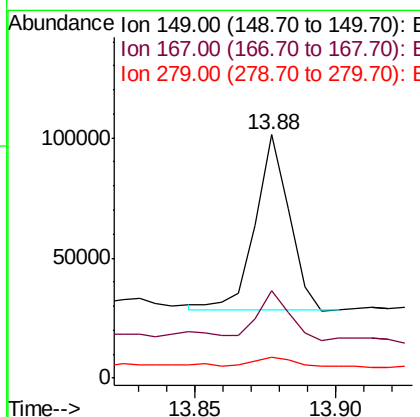
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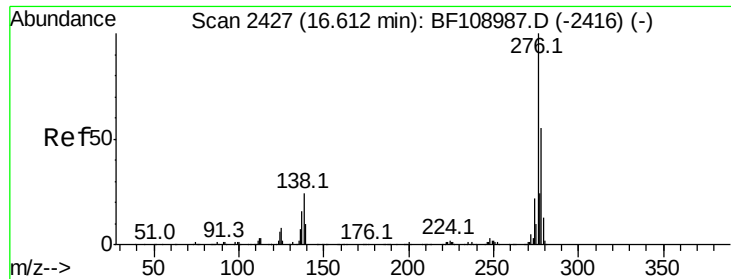
Sohil
9/19/2018 11:54:27 AM



#83
Bis(2-ethylhexyl)phthalate
Concen: 7.042 ng
RT: 13.88 min Scan# 1962
Delta R.T. 0.02 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
149	100		
167	36.1	21.3	31.9#
279	8.5	3.0	4.4#





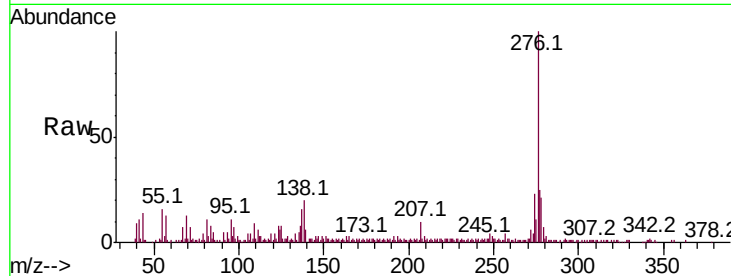
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.840 ng
 RT: 16.62 min Scan# 2429
 Delta R.T. 0.01 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 PHASE-1

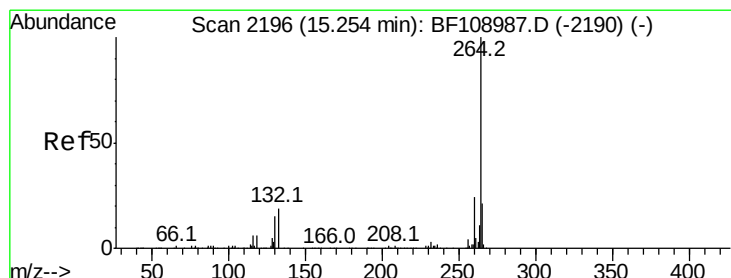
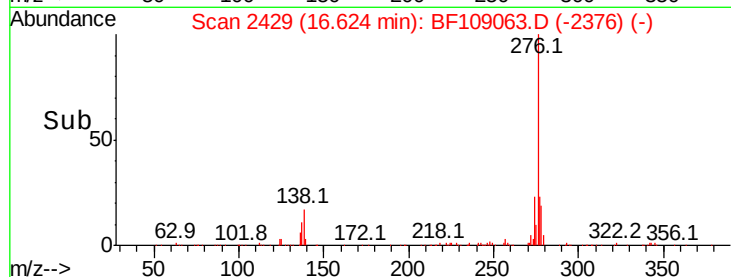
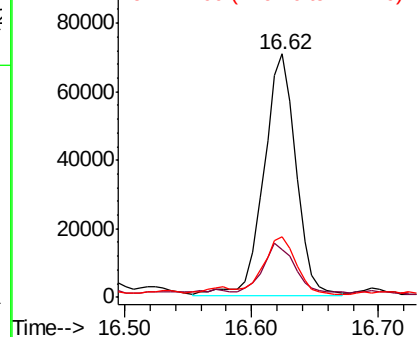
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.0	25.0	37.6#
277	24.8	20.1	30.1

Manual Integrations
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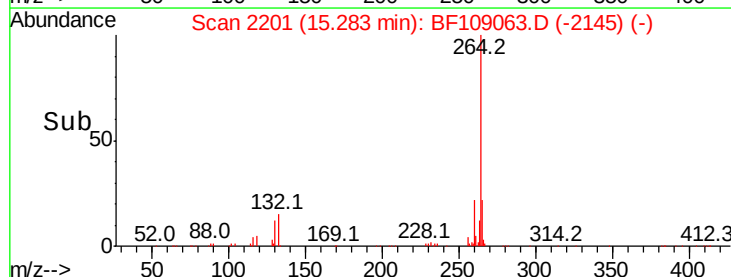
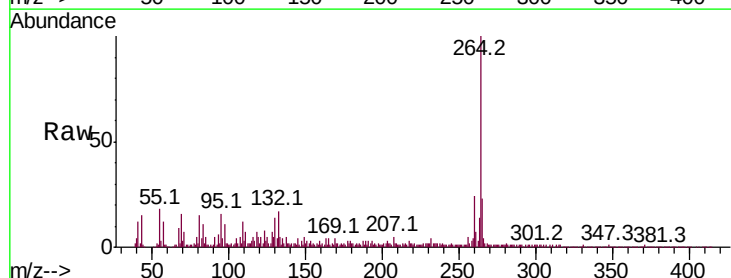
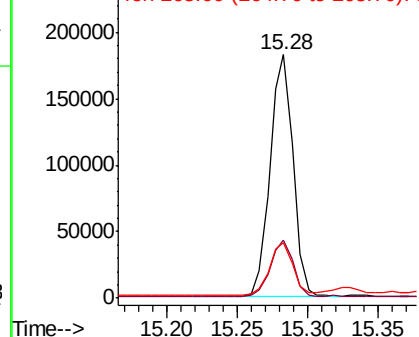
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

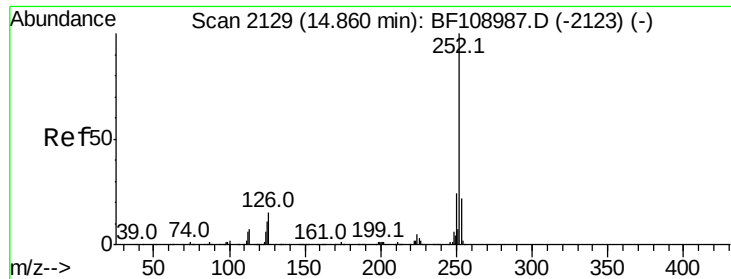


#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.28 min Scan# 2201
 Delta R.T. 0.03 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.9	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





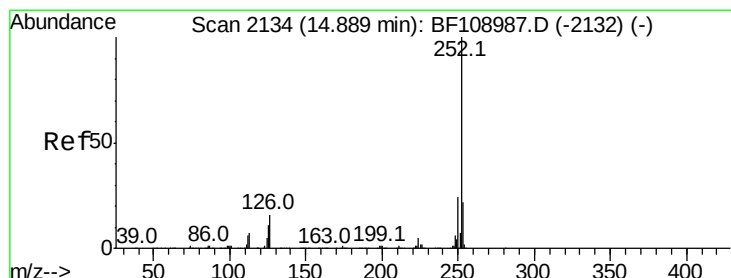
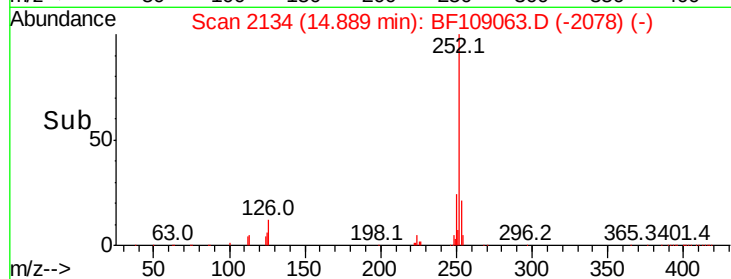
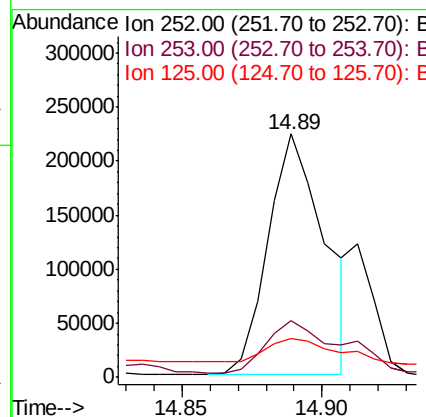
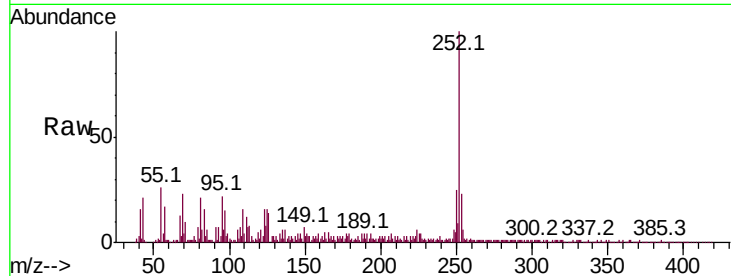
#87
Benzo(b)fluoranthene
Concen: 26.624 ng m
RT: 14.89 min Scan# 2134
Delta R.T. 0.03 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampleId :
PHASE-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	15.8	9.0	13.6

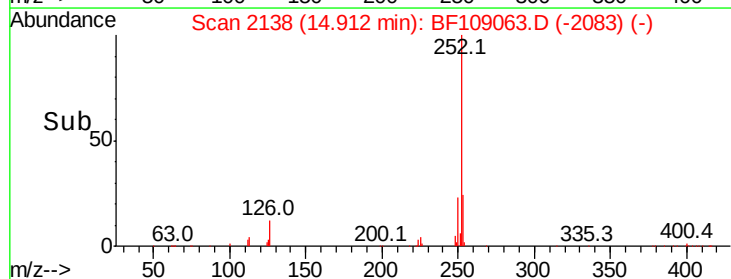
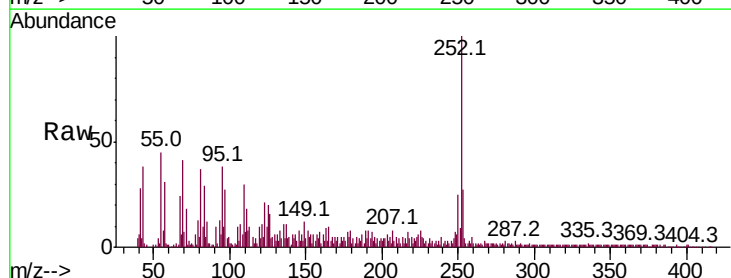
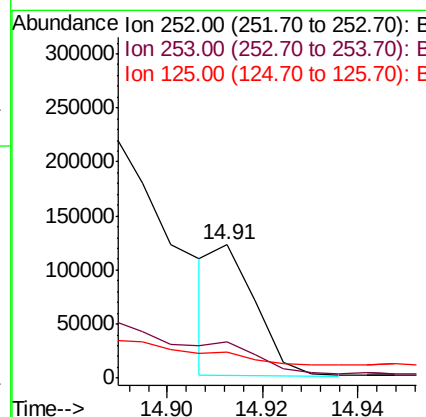
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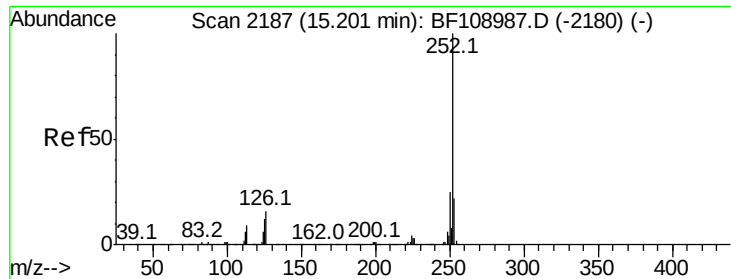
Sohil
9/19/2018 11:54:27 AM



#88
Benzo(k)fluoranthene
Concen: 6.649 ng m
RT: 14.91 min Scan# 2138
Delta R.T. 0.02 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.4	17.9	26.9
125	19.7	10.2	15.2





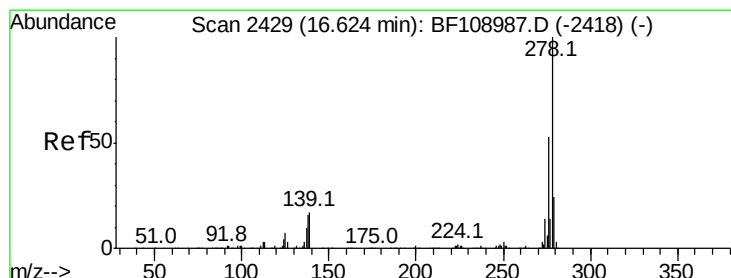
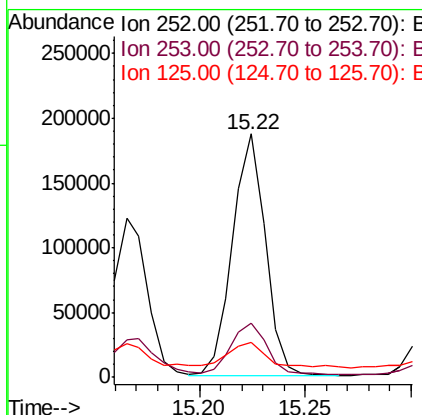
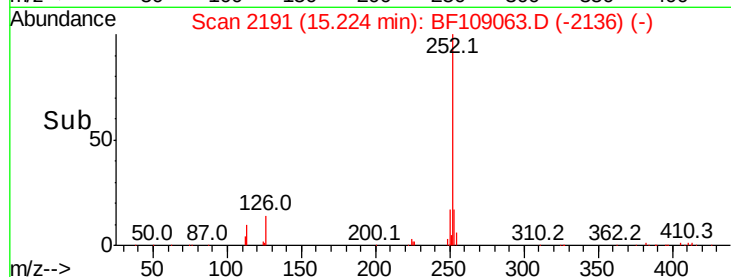
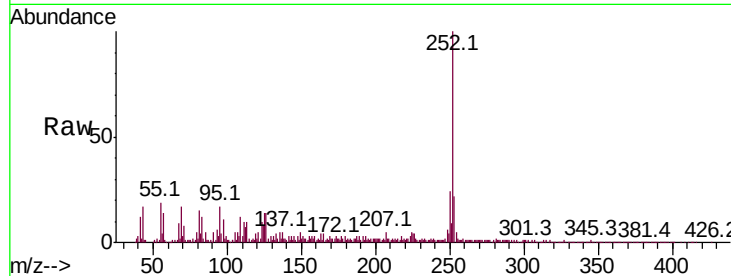
#89
Benzo(a)pyrene
Concen: 19.374 ng
RT: 15.22 min Scan# 2191
Delta R.T. 0.02 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Instrument :
BNA_F
ClientSampled :
PHASE-1

Tot Ion:	252	Resp:	200134
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.1	25.7
125	14.4	9.8	14.6

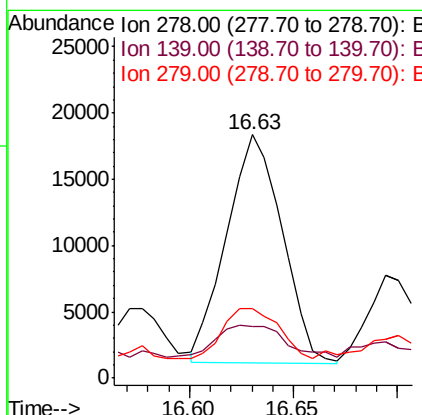
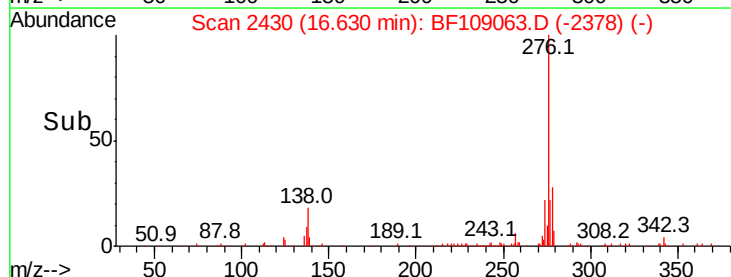
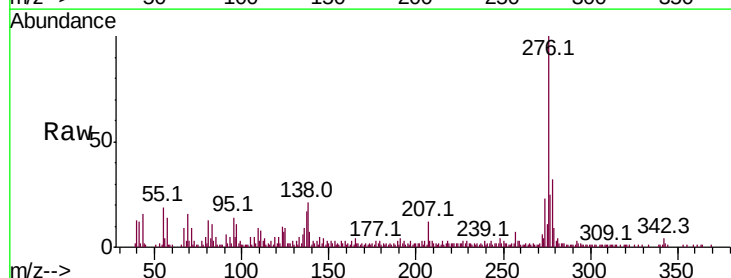
Manual Integrations
APPROVED

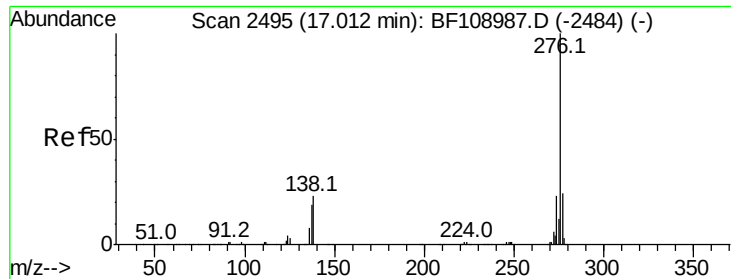
Sohil
9/19/2018 11:54:27 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.693 ng m
RT: 16.63 min Scan# 2430
Delta R.T. 0.01 min
Lab File: BF109063.D
Acq: 17 Sep 2018 22:03

Tgt Ion:	278	Resp:	32050
Ion Ratio	Lower	Upper	
278	100		
139	21.1	15.9	23.9
279	28.5	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 12.844 ng
 RT: 17.02 min Scan# 2497
 Delta R.T. 0.01 min
 Lab File: BF109063.D
 Acq: 17 Sep 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 PHASE-1

Tot Ion:	276	Resp:	111439
Ion Ratio	Lower	Upper	
276	100		
277	25.6	17.9	26.9
138	23.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 9/19/2018 11:54:27 AM

