

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122617\
 Data File : BF101727.D
 Acq On : 26 Dec 2017 21:33
 Operator : SJ/JU
 Sample : I6677-11
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-122117-B

Manual Integrations
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 12/27/2017 4:15:00 PM

Quant Time: Dec 27 06:07:35 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 26 10:48:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	94904	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	320321	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	126091	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	256285	20.00	ng	0.00
75) Chrysene-d12	13.97	240	254541	20.00	ng	0.00
86) Perylene-d12	15.44	264	217837	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	652854	102.47	ng	0.00
7) Phenol-d6	6.43	99	728555	91.88	ng	0.00
23) Nitrobenzene-d5	7.36	82	437630	76.05	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	136043	111.97	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	674121	82.93	ng	0.00
78) Terphenyl-d14	12.90	244	737389	69.84	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	95571	5.926	ng	99
37) 2-Methylnaphthalene	8.79	142	33263	3.166	ng	98
48) Acenaphthylene	9.69	152	68660	5.081	ng	97
49) Dimethylphthalate	9.54	163	49618	4.892	ng	100
51) Acenaphthene	9.86	154	39098	4.815	ng	98
54) Dibenzofuran	10.03	168	45243	4.385	ng	96
57) Fluorene	10.37	166	76105	8.719	ng	97
70) Phenanthrene	11.34	178	481062	33.753	ng	99
71) Anthracene	11.39	178	173677	11.930	ng	99
72) Carbazole	11.56	167	50114	3.677	ng	99
74) Fluoranthene	12.53	202	628598	42.019	ng	99
77) Pyrene	12.77	202	567901	29.728	ng	99
80) Benzo(a)anthracene	13.96	228	327650	19.494	ng	98
82) Chrysene	14.00	228	296301	18.671	ng	98
85) Indeno(1,2,3-cd)pyrene	16.94	276	134146	9.492	ng	# 88
87) Benzo(b)fluoranthene	15.02	252	312694m	23.550	ng	
88) Benzo(k)fluoranthene	15.04	252	110561m	8.564	ng	
89) Benzo(a)pyrene	15.39	252	227371	18.576	ng	# 95
90) Dibenzo(a,h)anthracene	16.93	278	30974	2.947	ng	# 70
91) Benzo(g,h,i)perylene	17.39	276	129616	12.456	ng	# 93

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

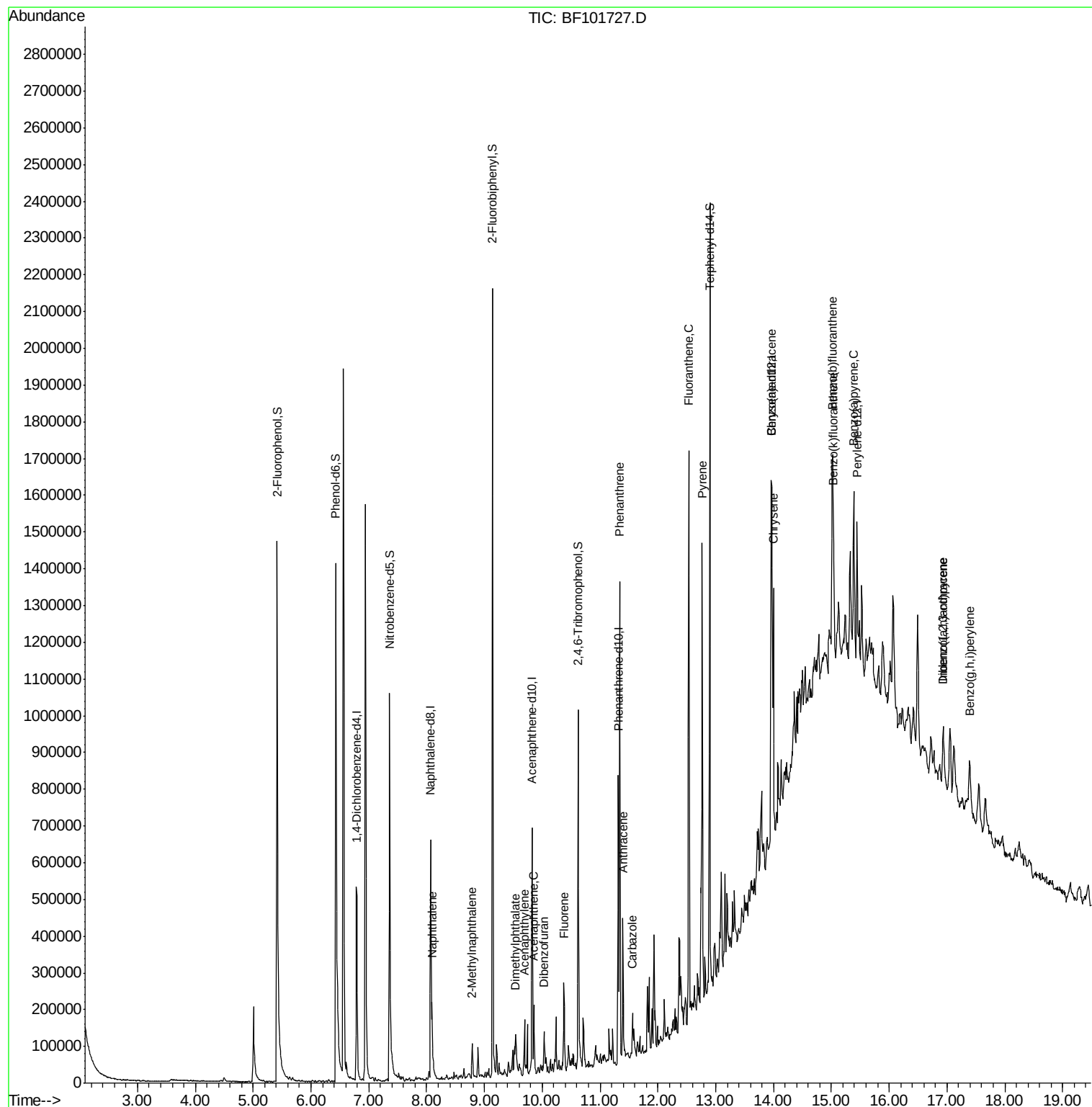
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122617\
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ALS Vial : 8 Sample Multiplier: 1

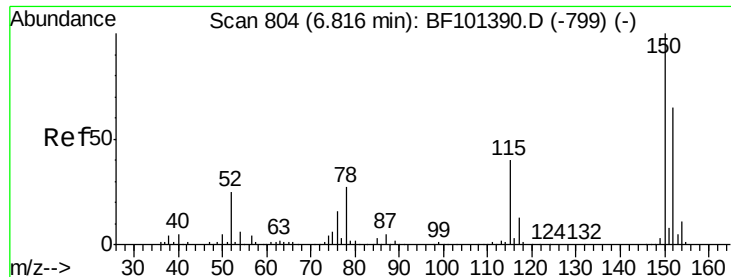
Instrument :
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OR-02-122117-B

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Quant Time: Dec 27 06:07:35 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

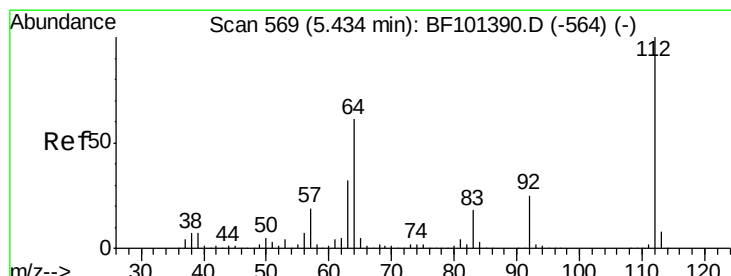
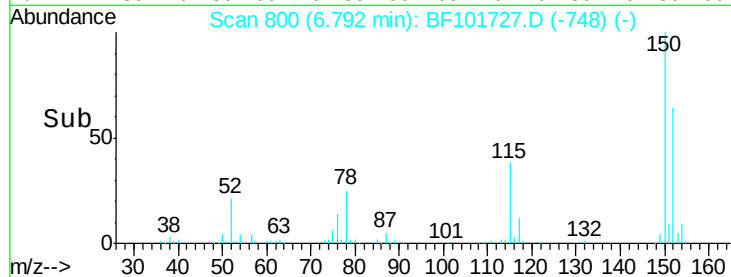
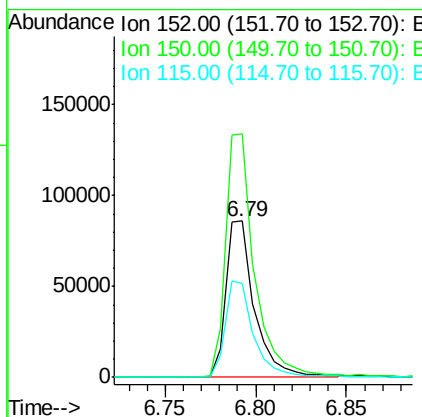
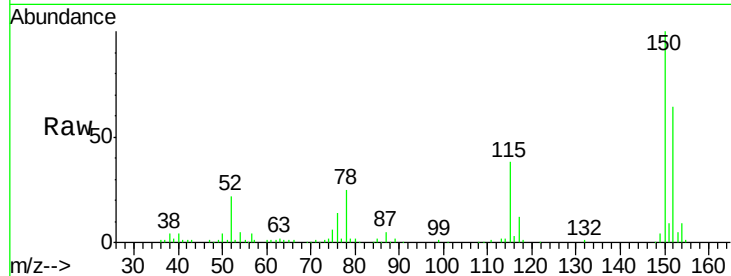
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.6	186.8
115	59.9	50.1	75.1

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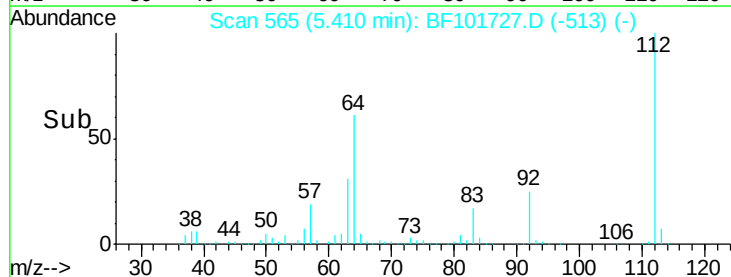
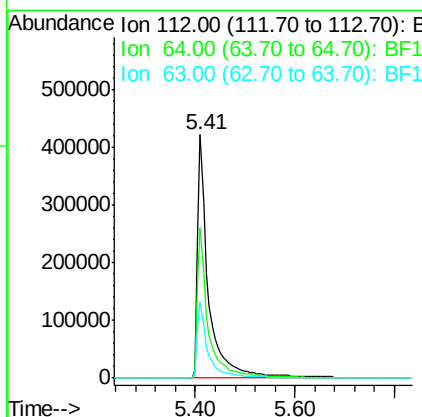
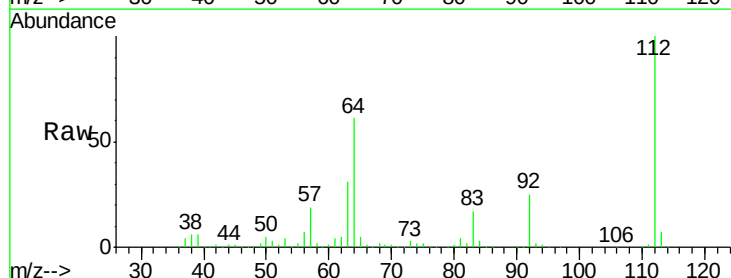
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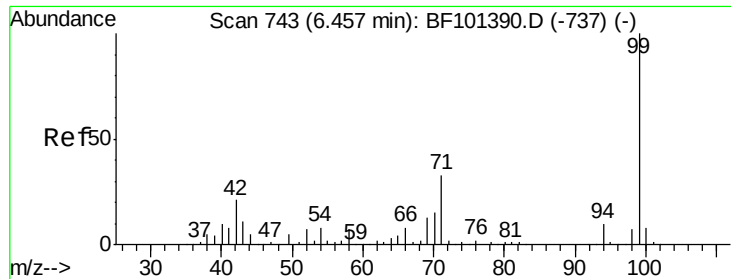


#5

2-Fluorophenol
Concen: 102.470 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	47.9	71.9
63	31.2	23.7	35.5





#7

Phenol-d6

Concen: 91.883 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

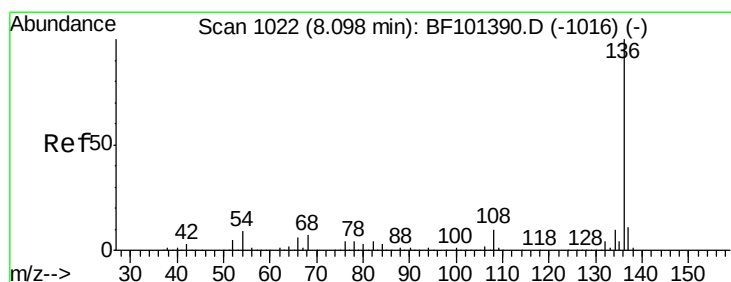
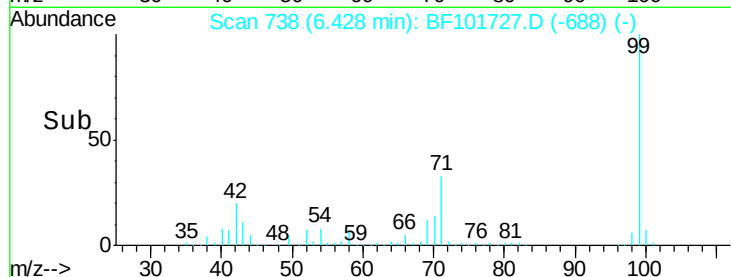
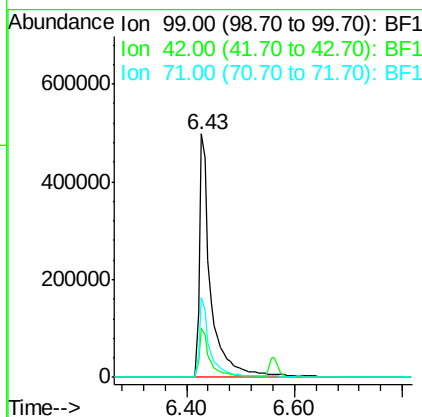
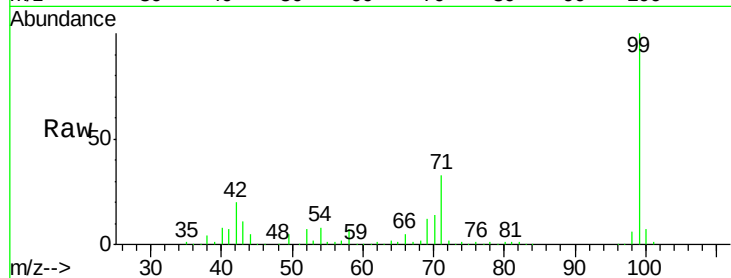
ClientSampleId :

OR-02-122117-B

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		728555		
42	20.3	14.5	21.7		
71	32.9	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

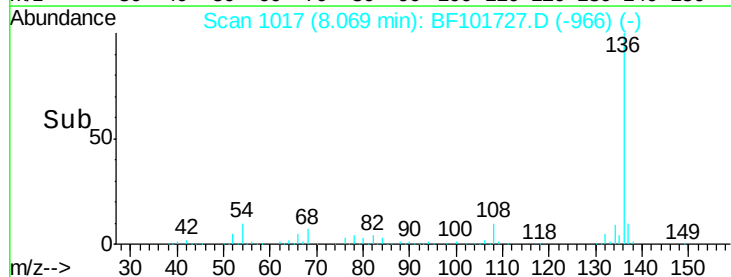
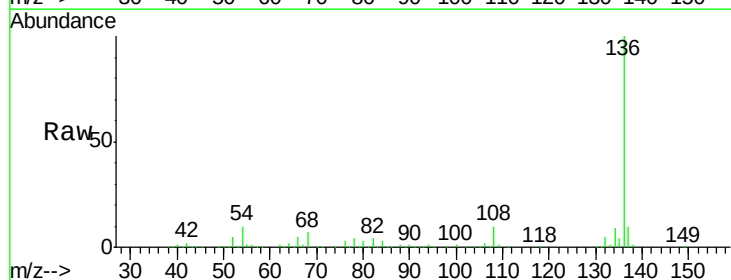
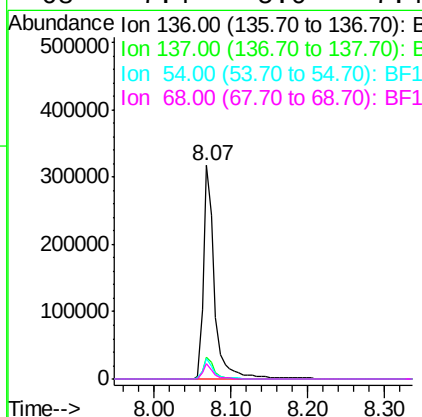
RT: 8.07 min Scan# 1017

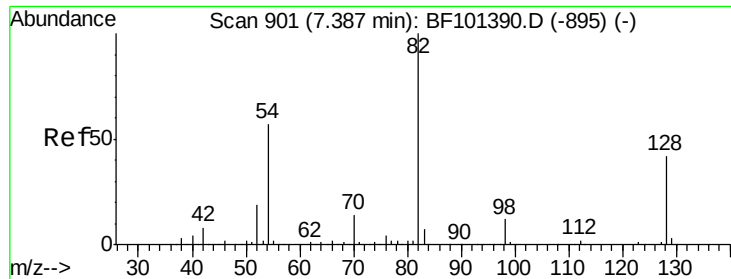
Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		320321		
137	10.5	8.9	13.3		
54	9.8	6.6	9.8		
68	7.4	5.0	7.4		





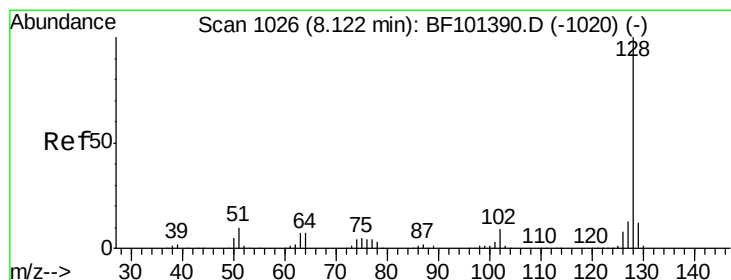
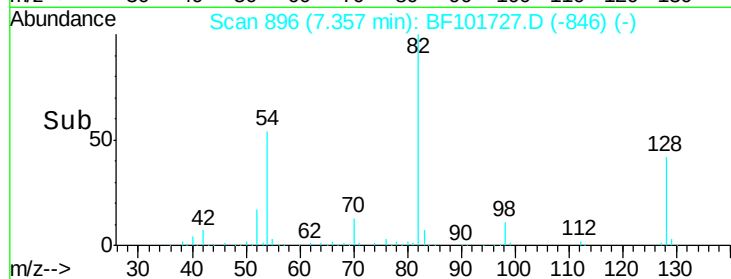
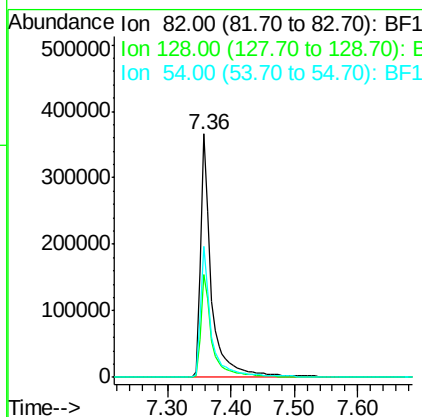
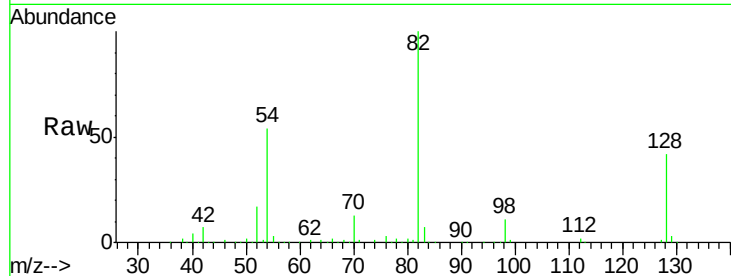
#23
Nitrobenzene-d5
Concen: 76.052 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	437630		
128	42.2	36.1	54.1	
54	53.7	41.4	62.2	

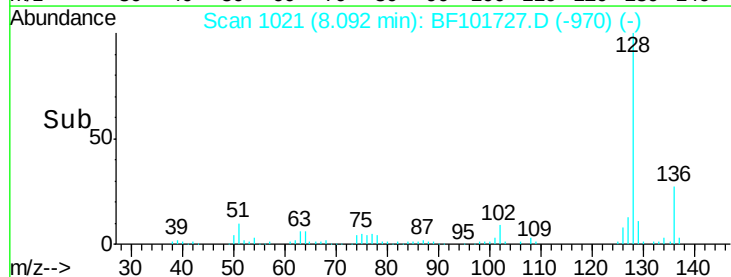
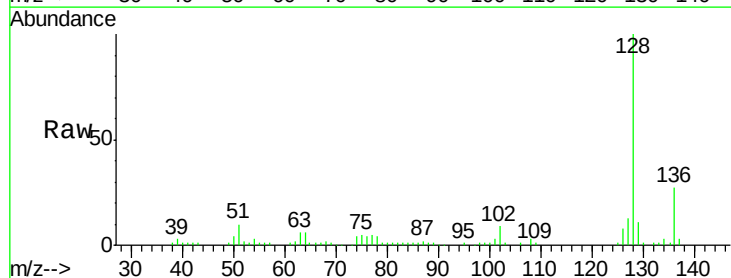
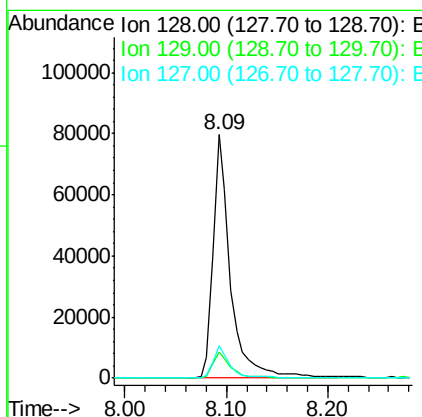
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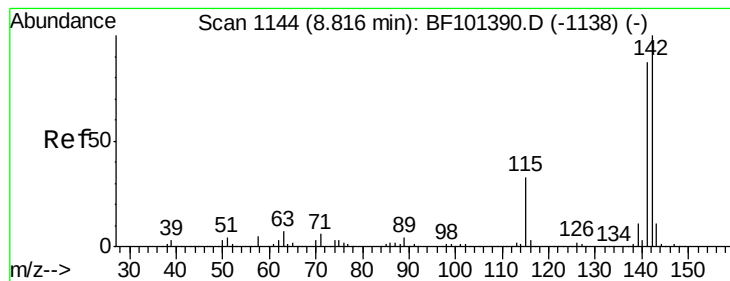
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#31
Naphthalene
Concen: 5.926 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	95571		
129	10.6	8.8	13.2	
127	13.1	10.9	16.3	





#37

2-Methylnaphthalene

Concen: 3.166 ng

RT: 8.79 min Scan# 1139

Delta R.T. 0.01 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

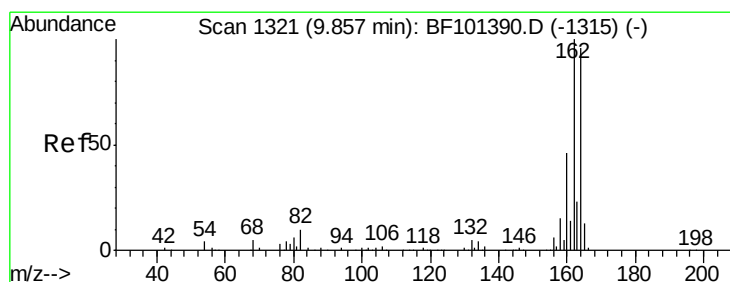
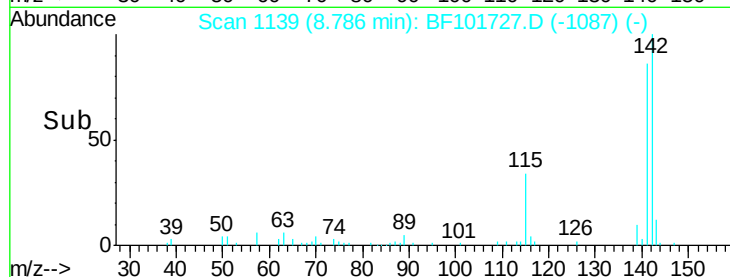
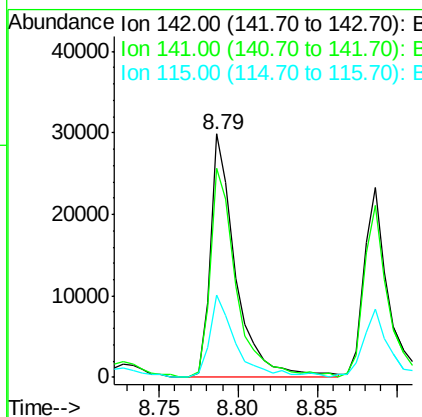
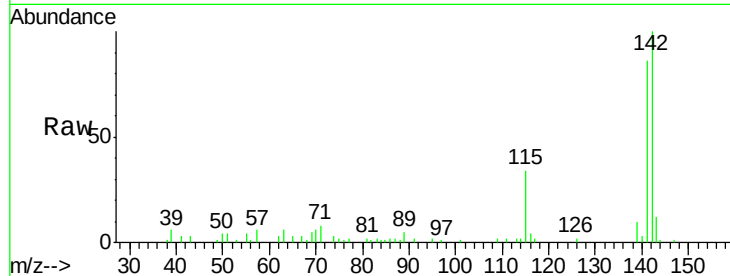
ClientSampleId :

OR-02-122117-B

Tgt Ion:	142	Resp:	33263
Ion Ratio	Lower	Upper	
142	100		
141	86.1	70.8	106.2
115	33.6	26.1	39.1

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#38

Acenaphthene-d10

Concen: 20.000 ng

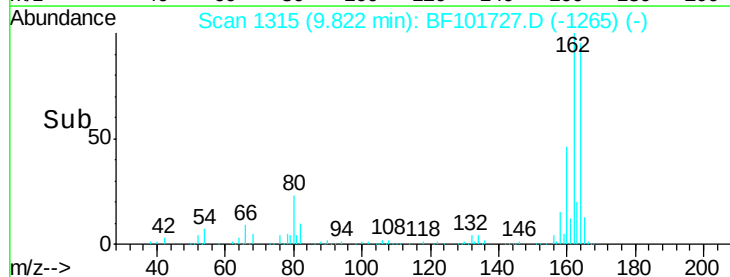
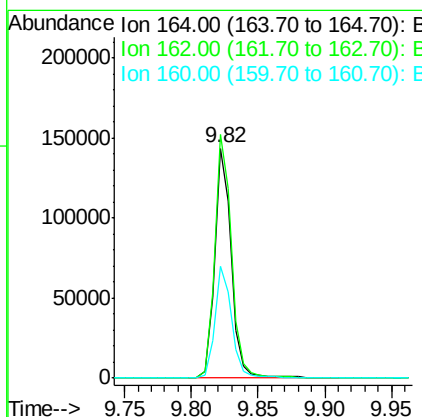
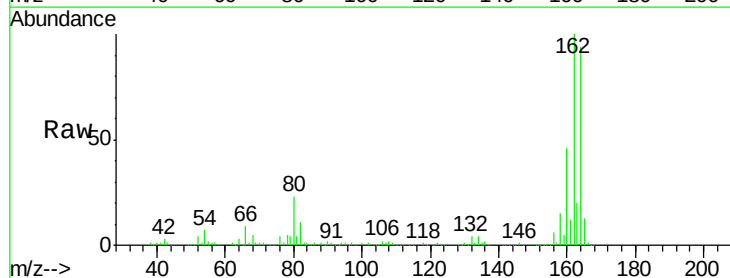
RT: 9.82 min Scan# 1315

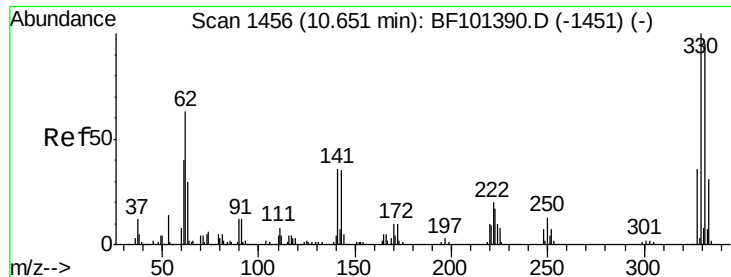
Delta R.T. -0.01 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion:	164	Resp:	126091
Ion Ratio	Lower	Upper	
164	100		
162	106.0	86.1	129.1
160	48.5	38.3	57.5





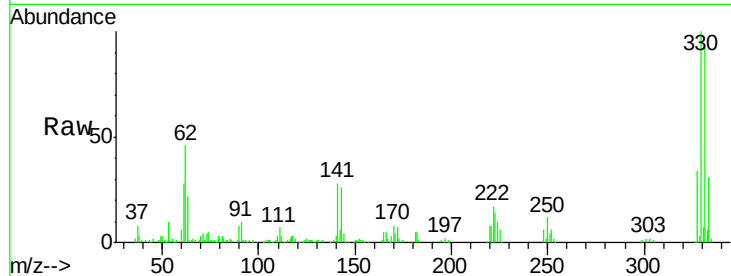
#41
 2,4,6-Tribromophenol
 Concen: 111.971 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.00 min
 Lab File: BF101727.D
 Acq: 26 Dec 2017 21:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-122117-B

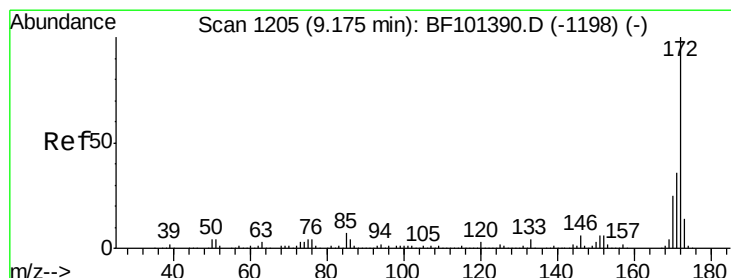
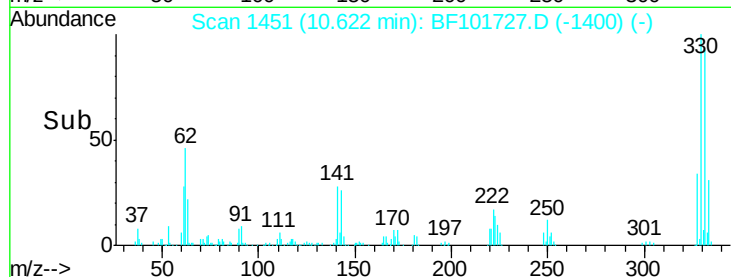
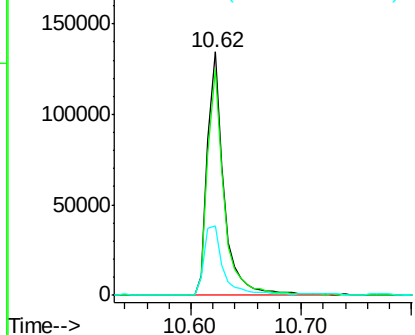
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	136043		
332	93.8	77.0	115.6	
141	33.5	29.9	44.9	

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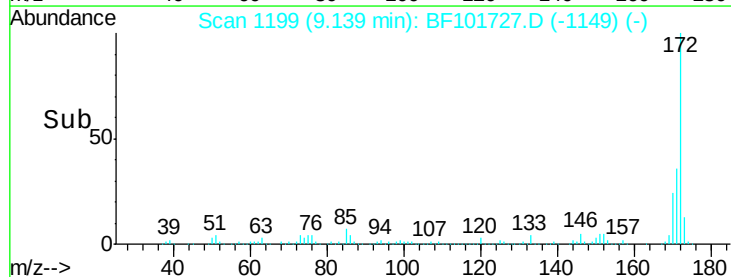
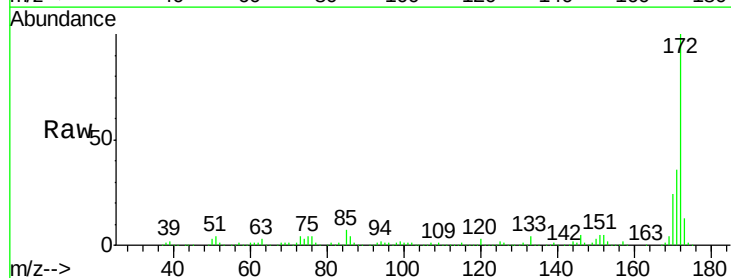
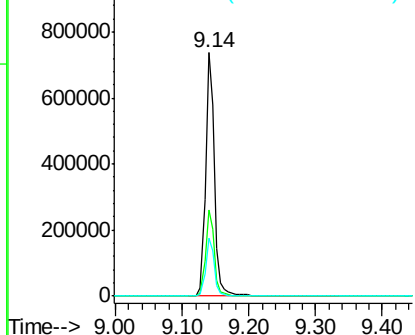
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

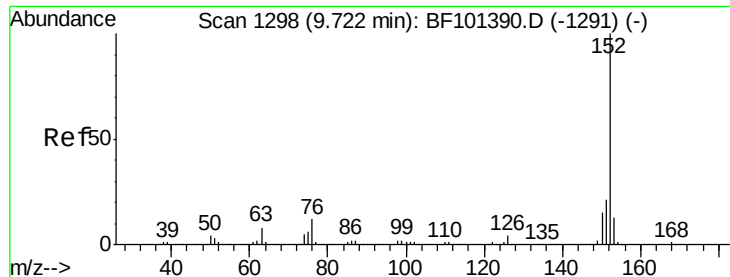


#44
 2-Fluorobiphenyl
 Concen: 82.934 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF101727.D
 Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	674121		
171	35.6	29.7	44.5	
170	23.7	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





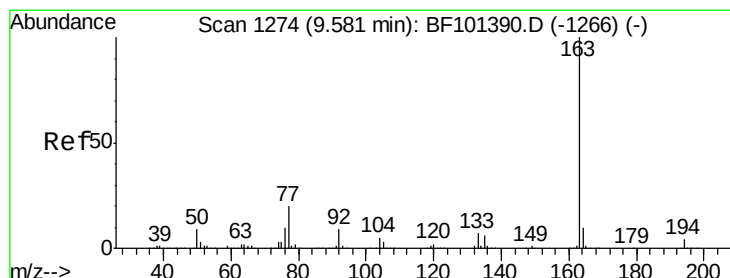
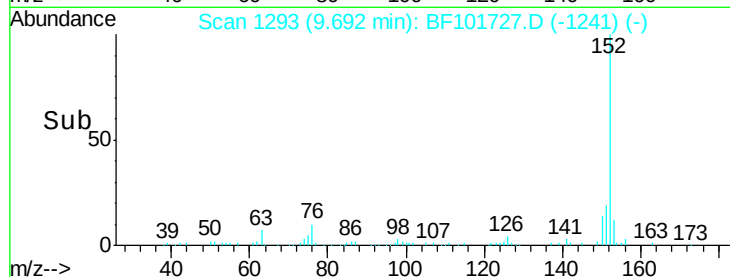
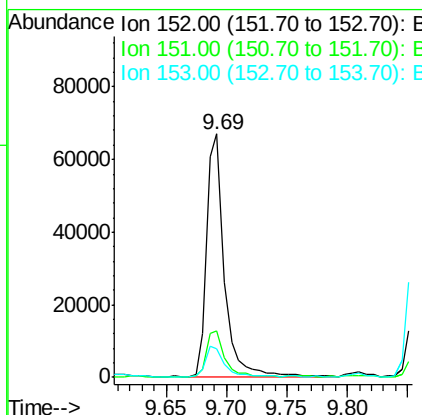
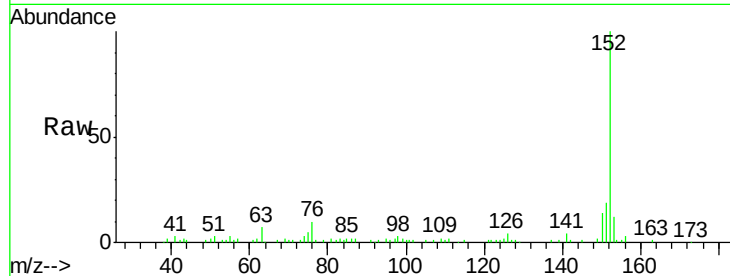
#48
 Acenaphthylene
 Concen: 5.081 ng
 RT: 9.69 min Scan# 1293
 Delta R.T. 0.01 min
 Lab File: BF101727.D
 Acq: 26 Dec 2017 21:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-122117-B

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	16.3	24.5
153	11.8	10.7	16.1

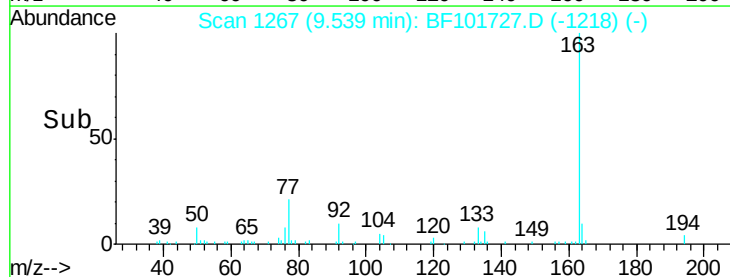
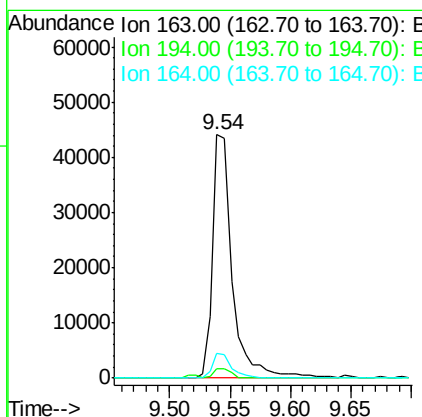
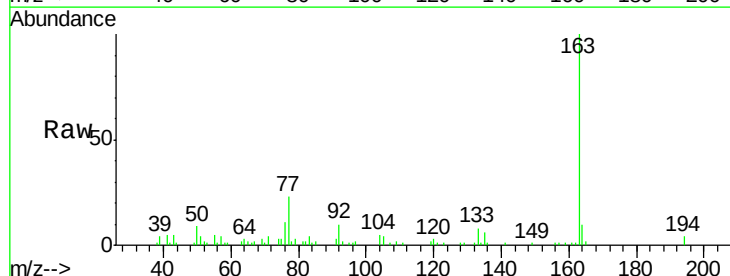
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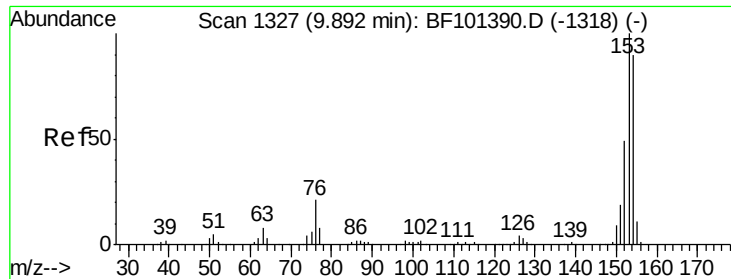
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#49
 Dimethylphthalate
 Concen: 4.892 ng
 RT: 9.54 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF101727.D
 Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	2.7	4.1
164	10.2	8.2	12.2





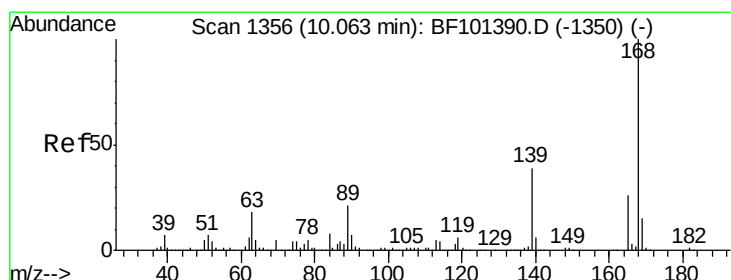
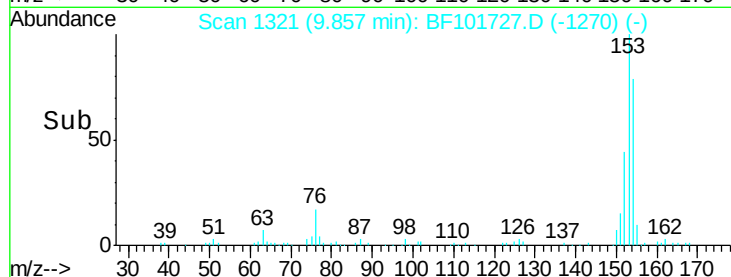
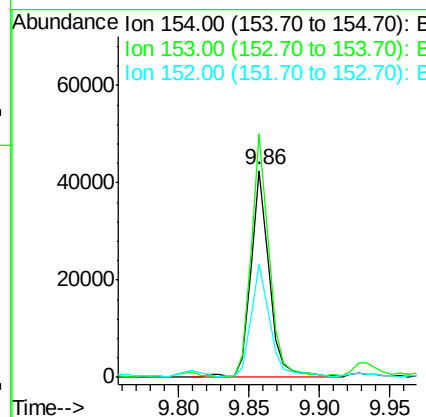
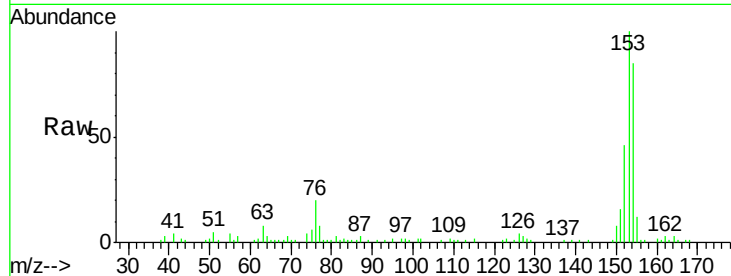
#51
Acenaphthene
Concen: 4.815 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	39098		
153	117.6	91.2	136.8	
152	54.3	43.8	65.8	

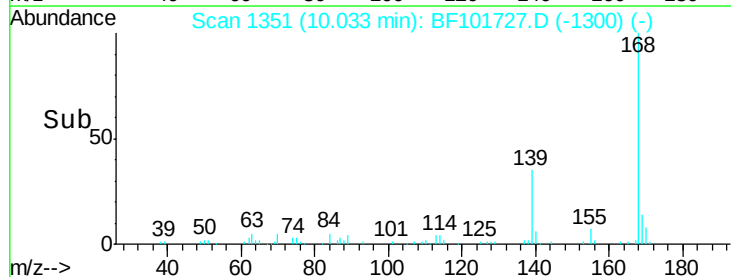
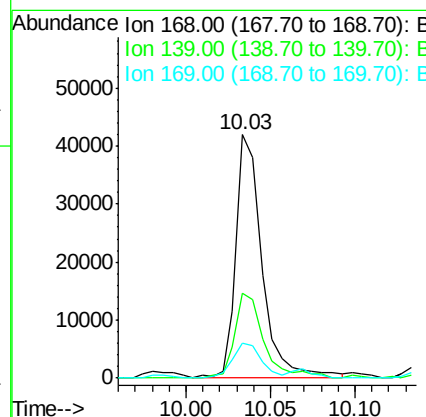
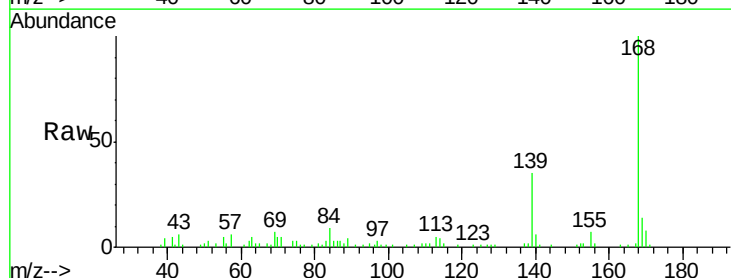
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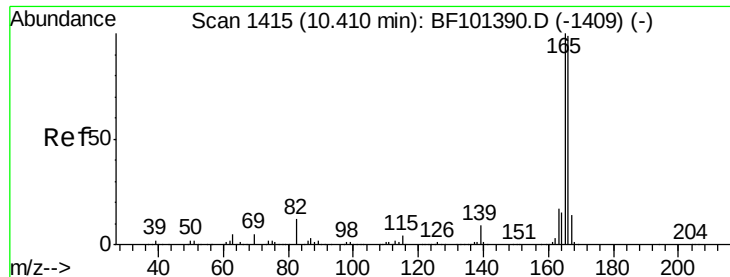
Sohil
12/27/2017 4:15:00 PM



#54
Dibenzofuran
Concen: 4.385 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	45243		
139	35.1	30.1	45.1	
169	14.5	10.9	16.3	





#57

Fluorene

Concen: 8.719 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

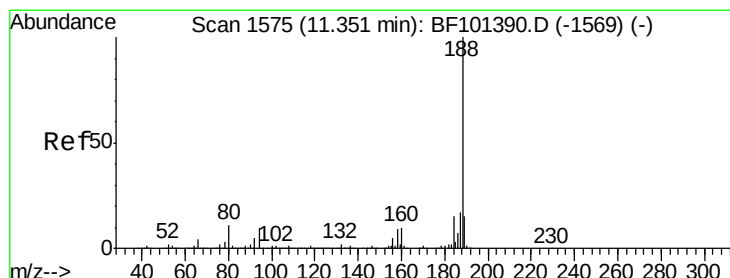
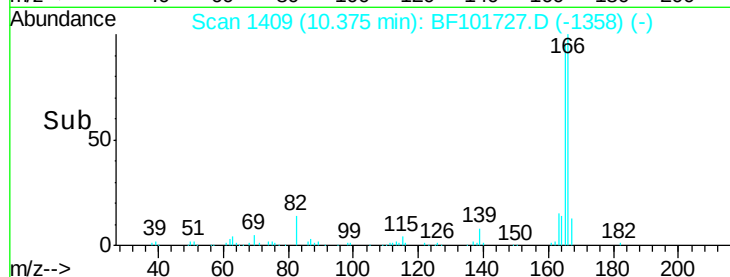
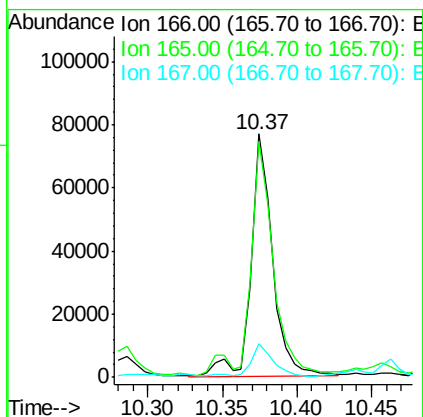
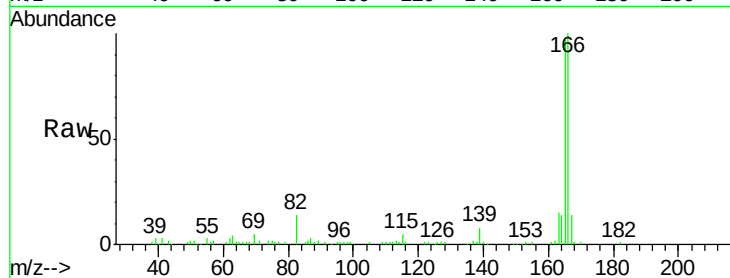
ClientSampleId :

OR-02-122117-B

Tgt Ion:	166	Resp:	76105
Ion Ratio	Lower	Upper	
166	100		
165	96.7	79.8	119.8
167	13.8	10.6	16.0

Manual Integrations
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Sohil
12/27/2017 4:15:00 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

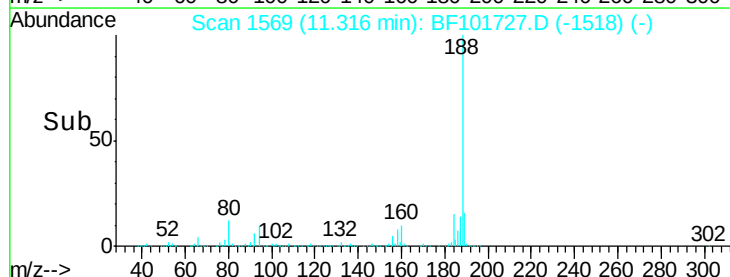
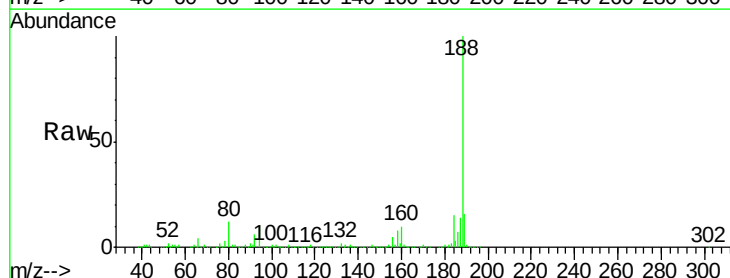
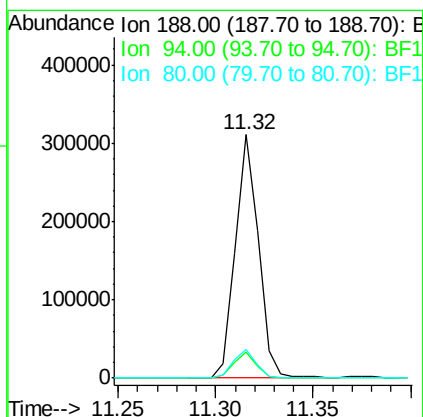
RT: 11.32 min Scan# 1569

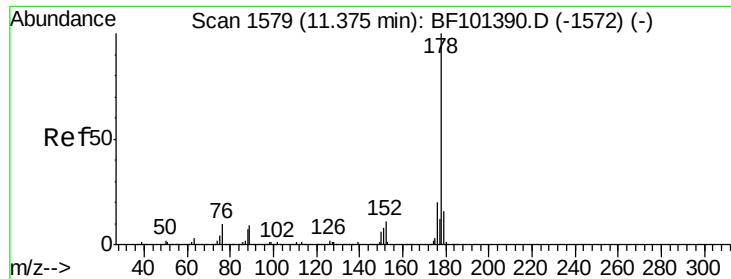
Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion:	188	Resp:	256285
Ion Ratio	Lower	Upper	
188	100		
94	10.5	8.5	12.7
80	11.6	9.2	13.8





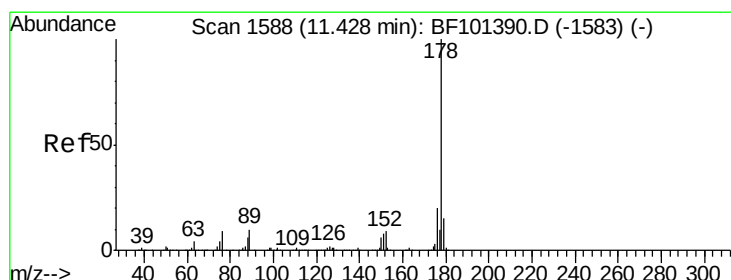
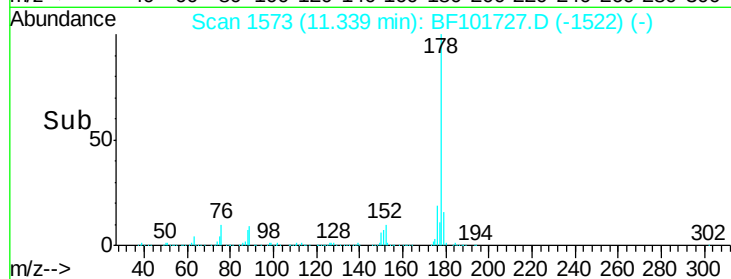
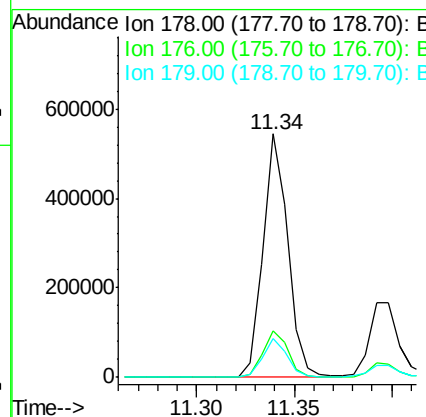
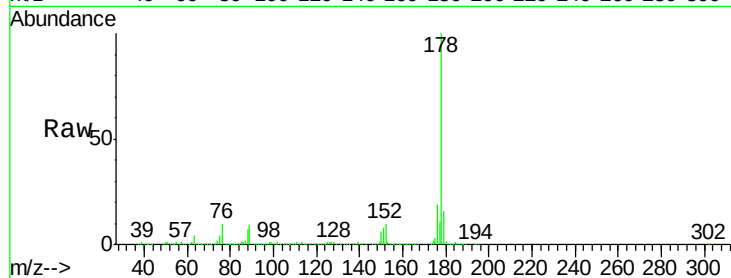
#70
Phenanthrene
Concen: 33.753 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

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

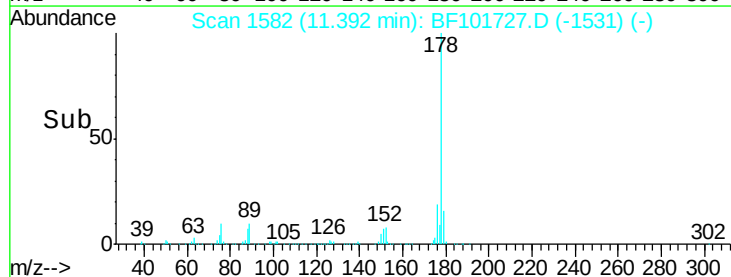
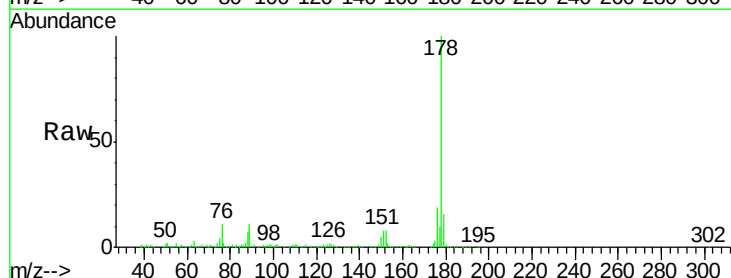
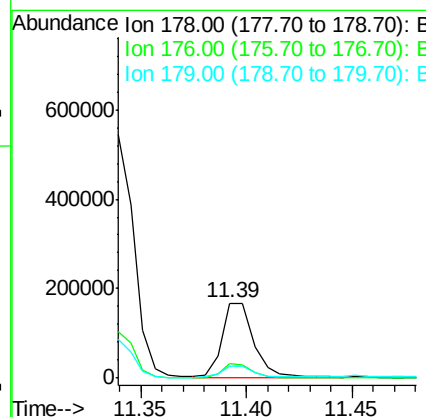
Manual Integrations
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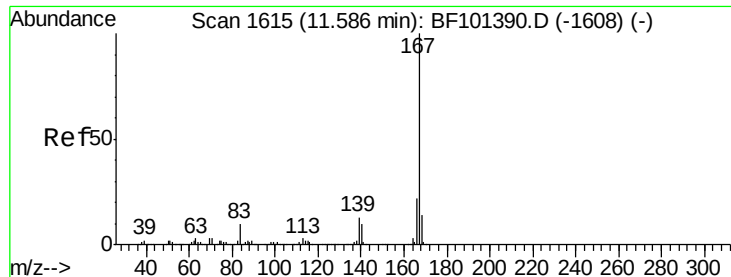
Sohil
12/27/2017 4:15:00 PM



#71
Anthracene
Concen: 11.930 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.3	12.6	19.0





#72

Carbazole

Concen: 3.677 ng

RT: 11.56 min Scan# 1611

Delta R.T. 0.01 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

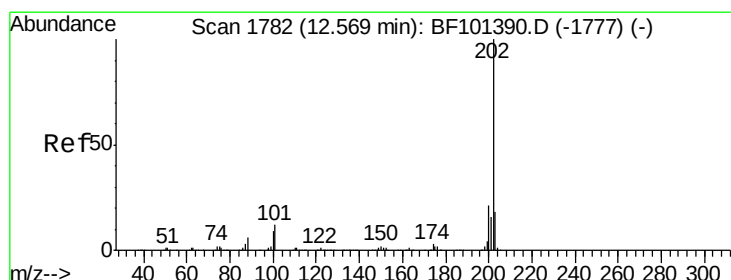
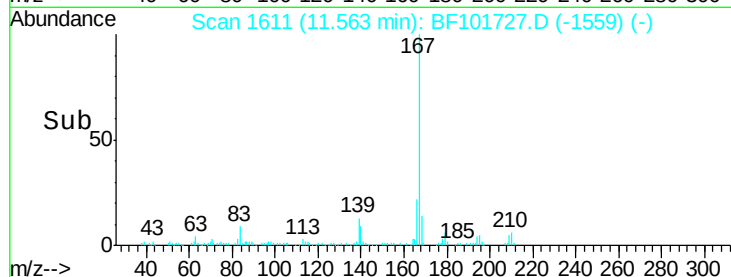
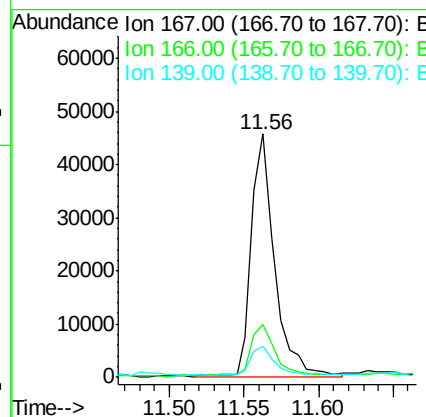
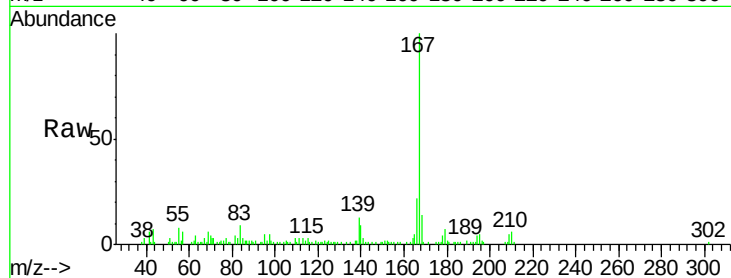
ClientSampleId :

OR-02-122117-B

Tgt Ion:	167	Resp:	50114
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	12.7	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 42.019 ng

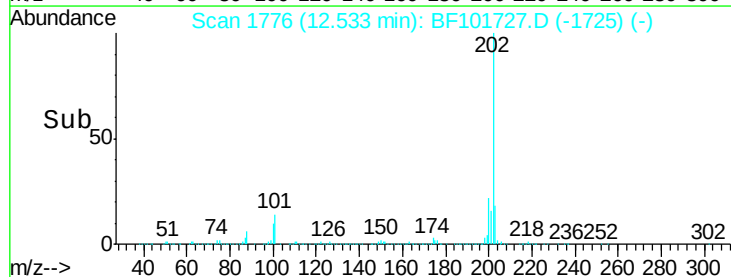
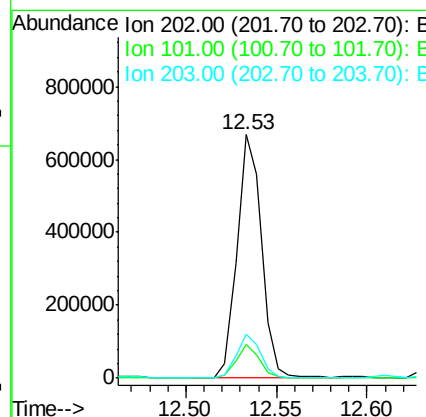
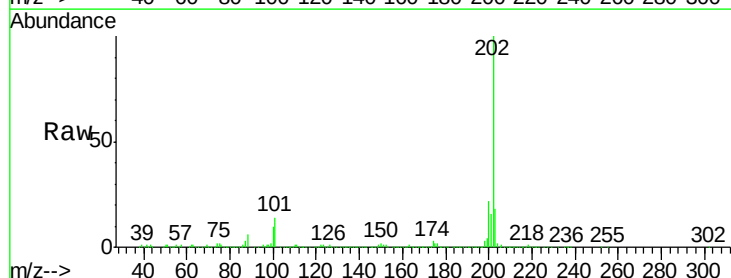
RT: 12.53 min Scan# 1776

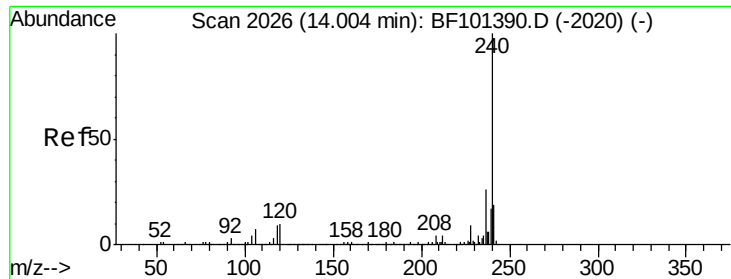
Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion:	202	Resp:	628598
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

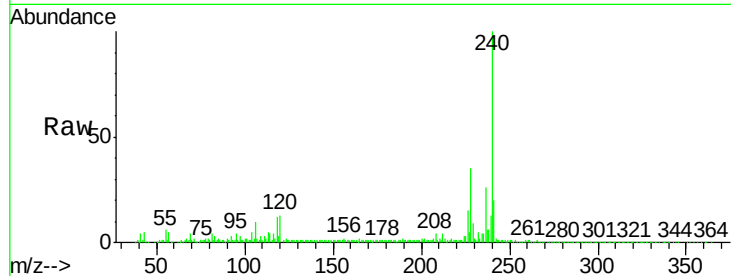
ClientSampleId :

OR-02-122117-B

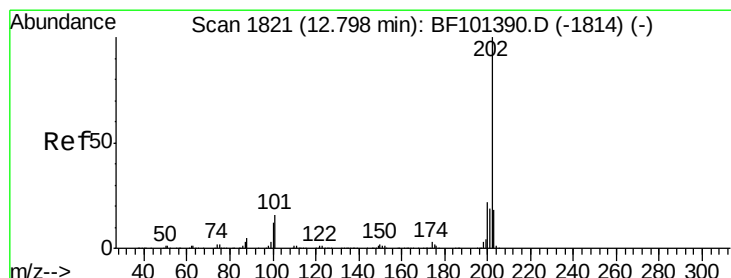
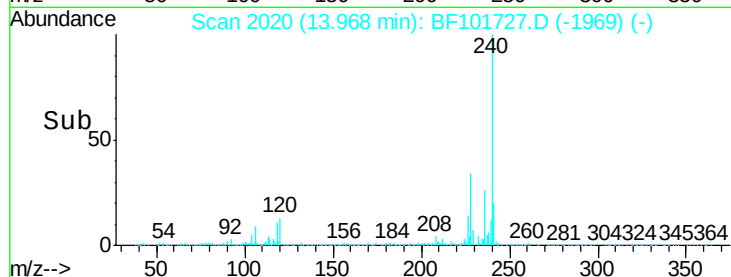
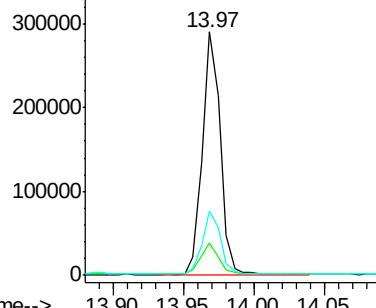
Tgt Ion:	240	Resp:	254541
Ion Ratio	Lower	Upper	
240	100		
120	13.3	9.5	14.3
236	26.4	20.7	31.1

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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: 29.728 ng

RT: 12.77 min Scan# 1816

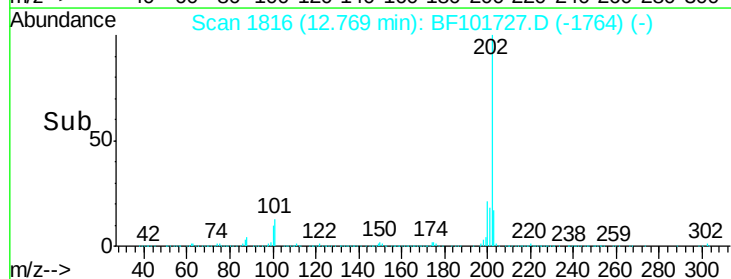
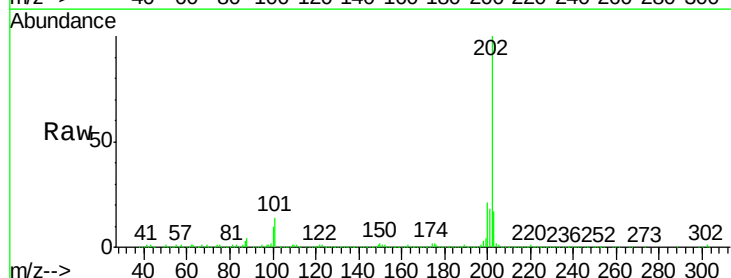
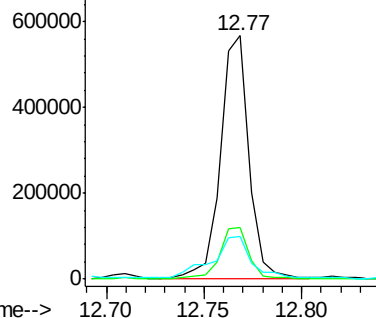
Delta R.T. 0.01 min

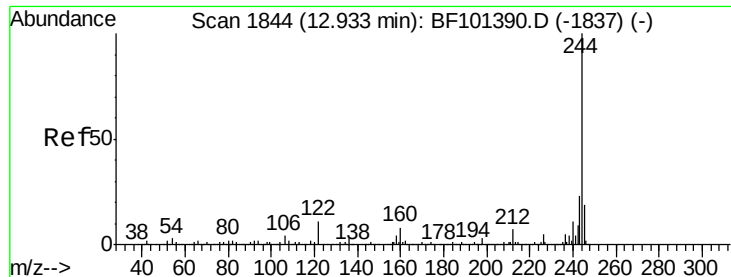
Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion:	202	Resp:	567901
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	17.4	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: 69.838 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Instrument :

BNA_F

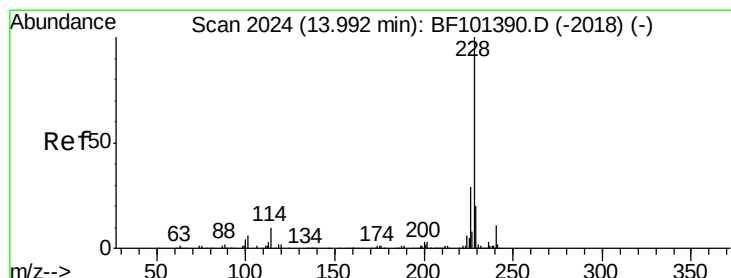
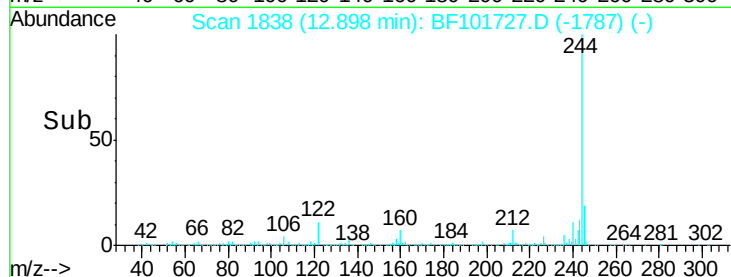
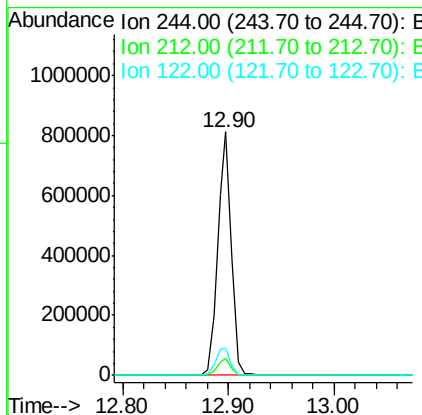
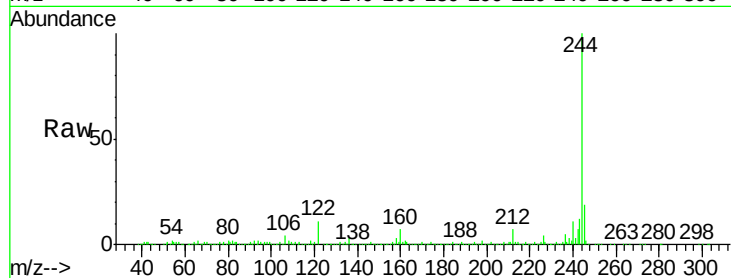
ClientSampleId :

OR-02-122117-B

Tgt Ion:	244	Resp:	737389
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.0
122	11.4	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 19.494 ng

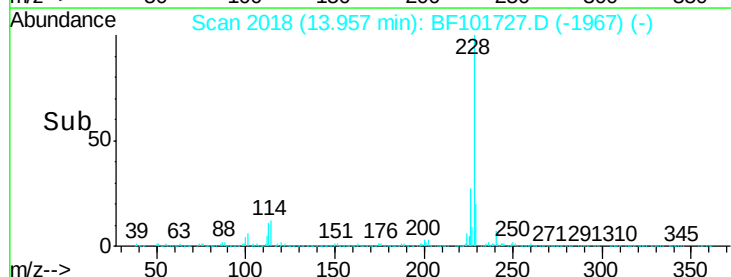
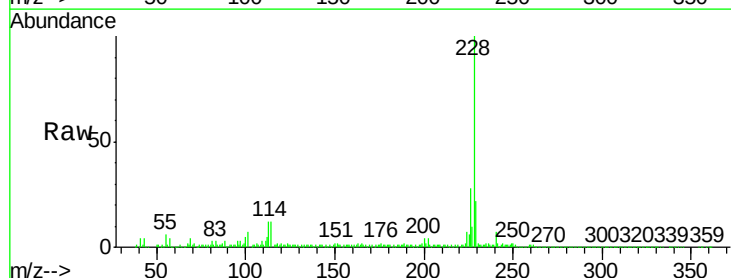
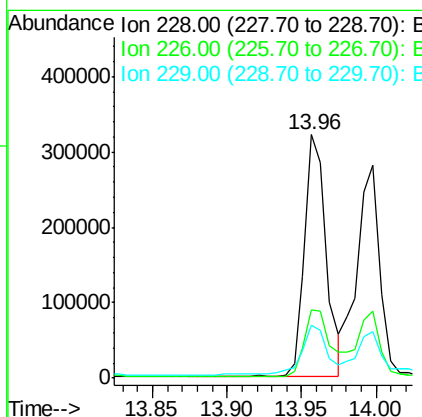
RT: 13.96 min Scan# 2018

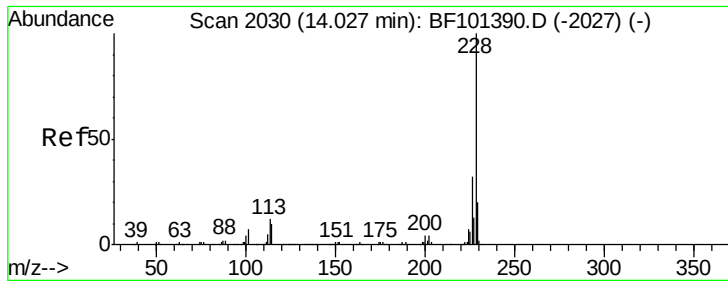
Delta R.T. -0.00 min

Lab File: BF101727.D

Acq: 26 Dec 2017 21:33

Tgt Ion:	228	Resp:	327650
Ion Ratio	Lower	Upper	
228	100		
226	27.8	22.6	33.8
229	21.6	15.8	23.6





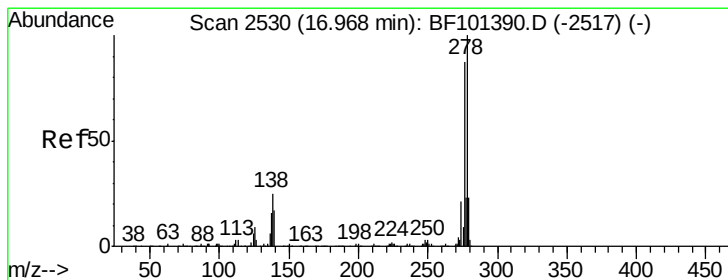
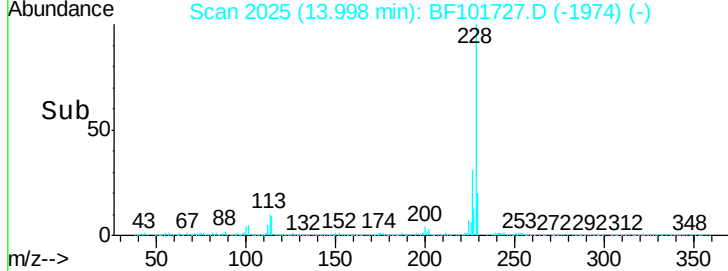
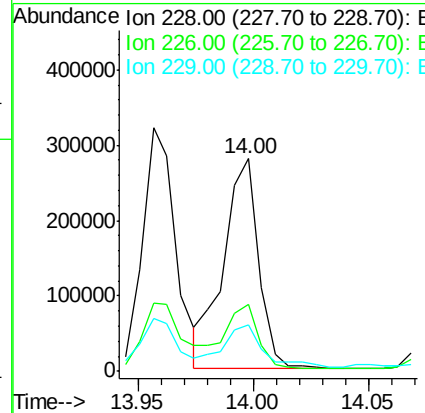
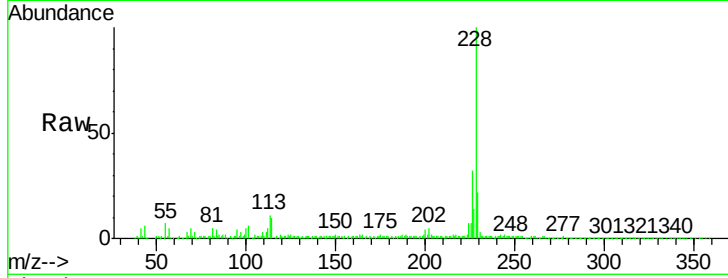
#82
Chrysene
Concen: 18.671 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	296301		
226	31.5	25.0	37.6	
229	22.0	16.2	24.4	

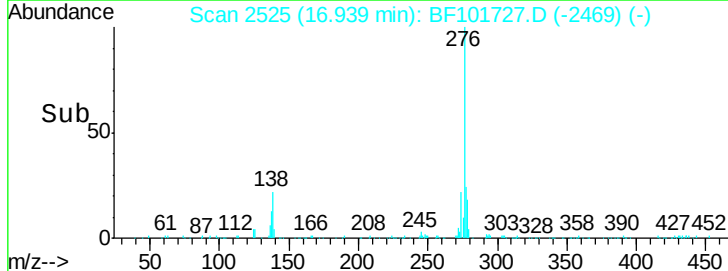
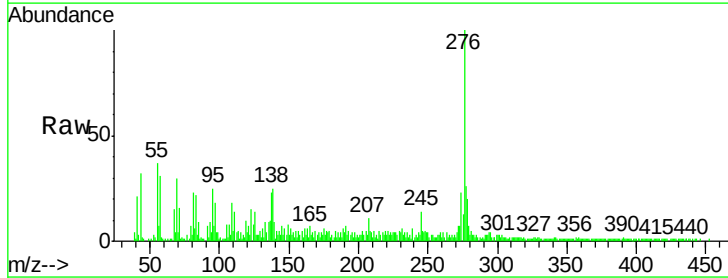
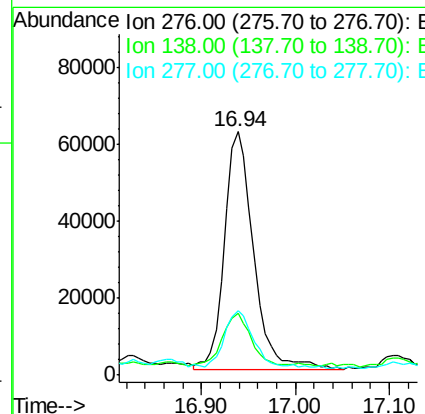
Manual Integrations
APPROVED

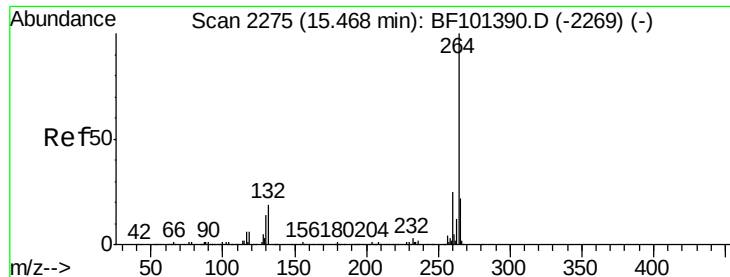
Sohil
12/27/2017 4:15:00 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 9.492 ng
RT: 16.94 min Scan# 2525
Delta R.T. 0.03 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	134146		
138	22.1	25.0	37.6#	
277	22.2	20.1	30.1	





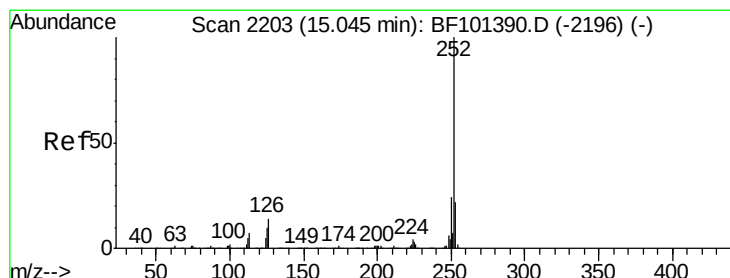
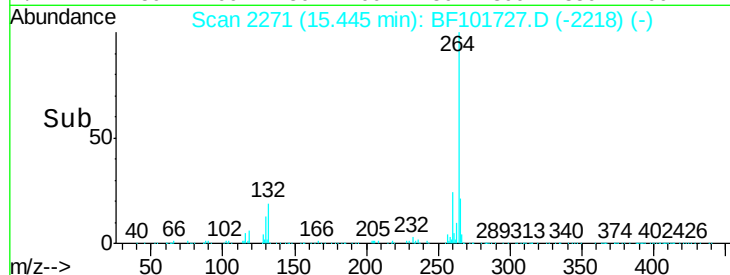
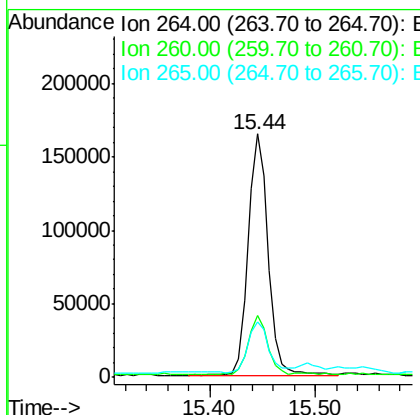
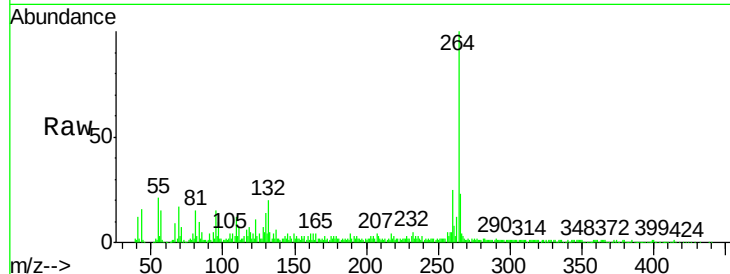
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.2	28.8
265	22.9	17.5	26.3

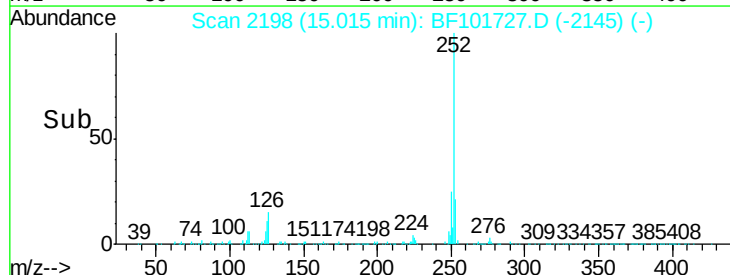
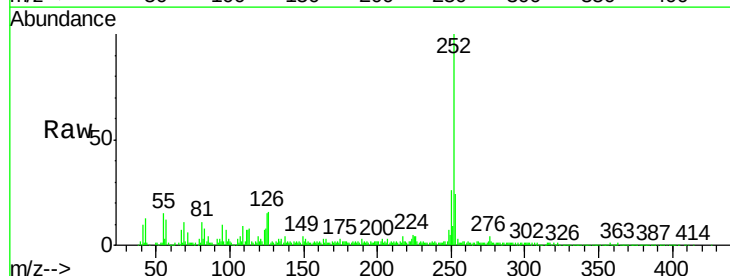
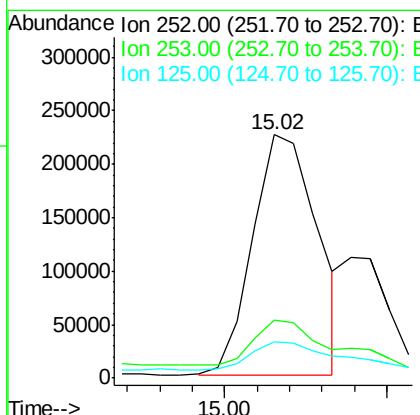
Manual Integrations
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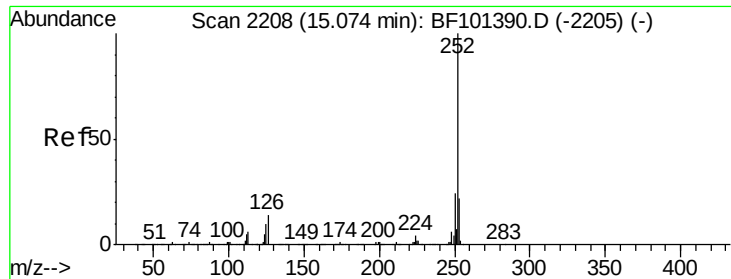
Sohil
12/27/2017 4:15:00 PM



#87
Benzo(b)fluoranthene
Concen: 23.550 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	14.7	9.0	13.6#





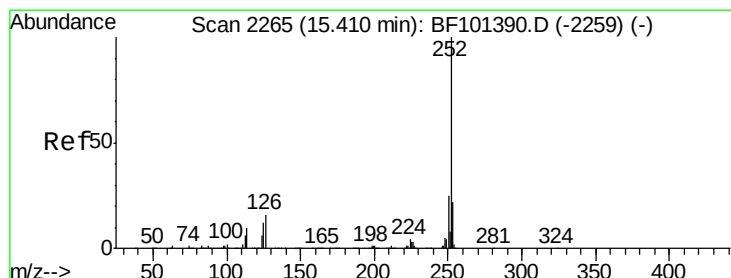
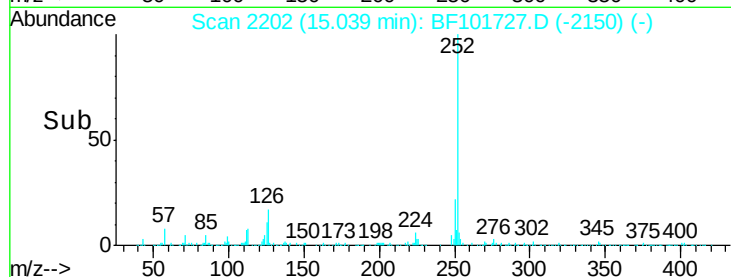
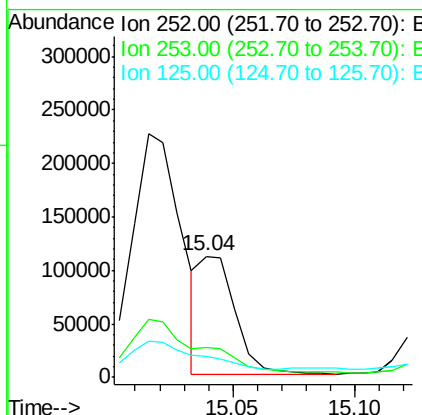
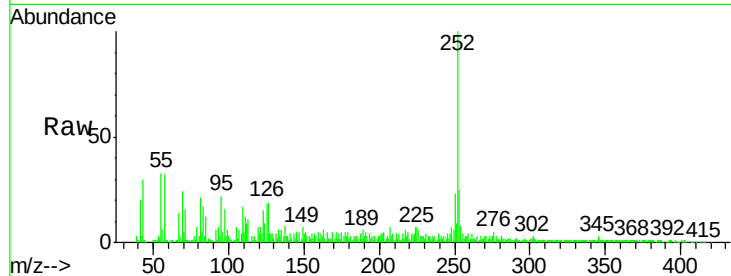
#88
Benzo(k)fluoranthene
Concen: 8.564 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	17.6	10.2	15.2

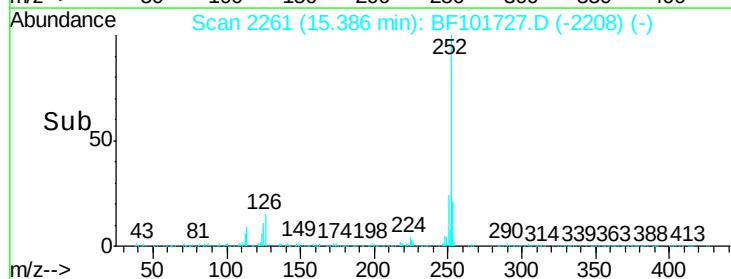
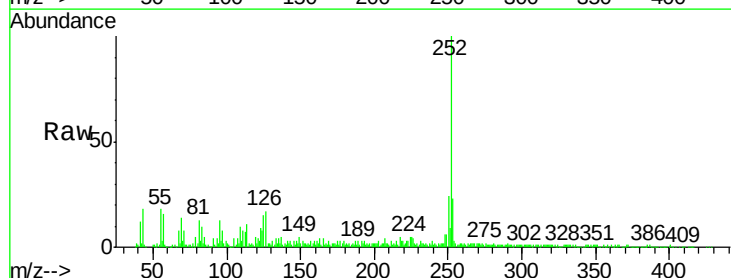
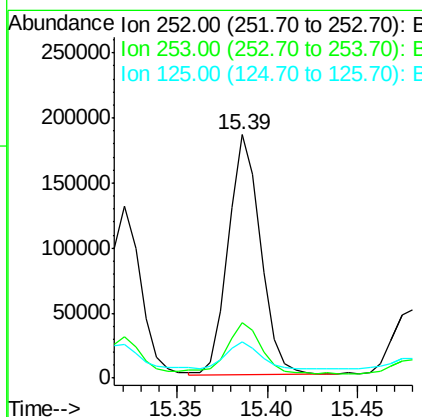
Manual Integrations
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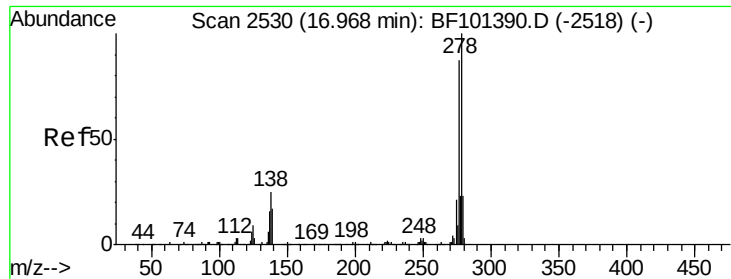
Sohil
12/27/2017 4:15:00 PM



#89
Benzo(a)pyrene
Concen: 18.576 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.01 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	15.1	9.8	14.6





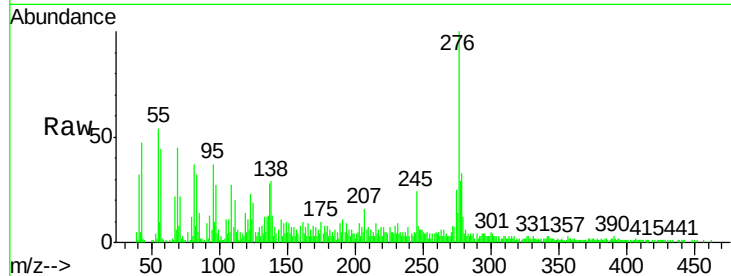
#90
Dibenzo(a,h)anthracene
Concen: 2.947 ng
RT: 16.93 min Scan# 2523
Delta R.T. 0.02 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Instrument :
BNA_F
ClientSampleId :
OR-02-122117-B

Tgt Ion	Ratio	Lower	Upper
278	100		
139	37.9	15.9	23.9#
279	35.0	19.0	28.4#

Manual Integrations
APPROVED

Sohil
12/27/2017 4:15:00 PM

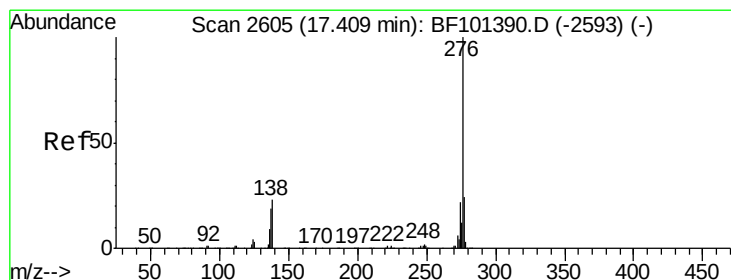
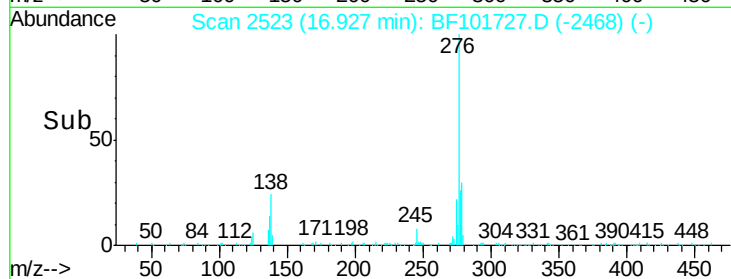
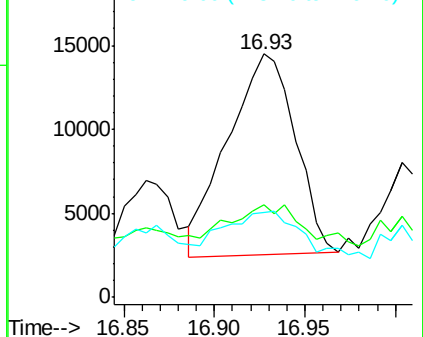


Abundance

Ion 278.00 (277.70 to 278.70): E

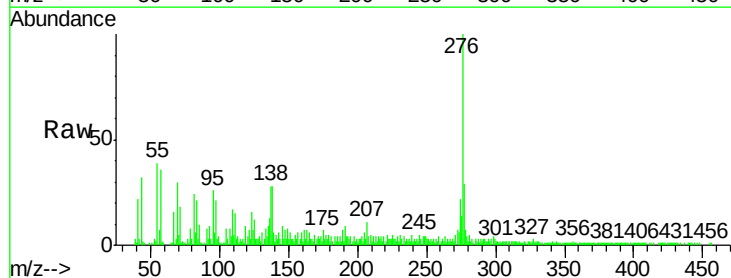
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 12.456 ng
RT: 17.39 min Scan# 2602
Delta R.T. 0.04 min
Lab File: BF101727.D
Acq: 26 Dec 2017 21:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.8	17.9	26.9#
138	27.8	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

