

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030618\
 Data File : BF103448.D
 Acq On : 6 Mar 2018 11:50
 Operator : SJ/JU
 Sample : J1778-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Manual Integrations
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Sohil
 3/7/2018 12:14:42 PM

Quant Time: Mar 06 13:03:57 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 06 11:52:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	112843	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	476664	20.00	ng	0.00
38) Acenaphthene-d10	9.91	164	227855	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	393918	20.00	ng	0.00
75) Chrysene-d12	14.09	240	255285	20.00	ng	0.02
86) Perylene-d12	15.64	264	224169	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	814650	109.19	ng	0.00
7) Phenol-d6	6.51	99	1005117	110.09	ng	0.00
23) Nitrobenzene-d5	7.44	82	619911	74.27	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	173634	90.03	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	853589	60.07	ng	0.00
78) Terphenyl-d14	13.00	244	769722	72.48	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.17	128	529298	22.681	ng	99
37) 2-Methylnaphthalene	8.87	142	182509	12.101	ng	99
48) Acenaphthylene	9.77	152	58184	2.504	ng	96
51) Acenaphthene	9.95	154	135663	10.010	ng	98
54) Dibenzofuran	10.12	168	175628	9.441	ng	98
57) Fluorene	10.46	166	258459	16.309	ng	100
59) Diethylphthalate	10.32	149	269439	15.412	ng	100
70) Phenanthrene	11.44	178	1140626	52.616	ng	99
71) Anthracene	11.49	178	430025	19.344	ng	100
72) Carbazole	11.64	167	92997	4.201	ng	98
73) Di-n-butylphthalate	11.95	149	505624	18.253	ng	99
74) Fluoranthene	12.63	202	1009079	46.321	ng	99
77) Pvrene	12.86	202	889999	44.716	ng	100
80) Benzo(a)anthracene	14.07	228	340722	20.570	ng	99
82) Chrysene	14.12	228	305158	18.974	ng	98
85) Indeno(1,2,3-cd)pyrene	17.19	276	129348	10.159	ng	97
87) Benzo(b)fluoranthene	15.19	252	297718m	20.199	ng	
88) Benzo(k)fluoranthene	15.22	252	80805m	5.822	ng	
89) Benzo(a)pvrene	15.57	252	223991m	17.018	ng	
90) Dibenzo(a,h)anthracene	17.19	278	31574	3.105	ng	# 81
91) Benzo(q,h,i)perylene	17.66	276	124116	12.487	ng	92

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

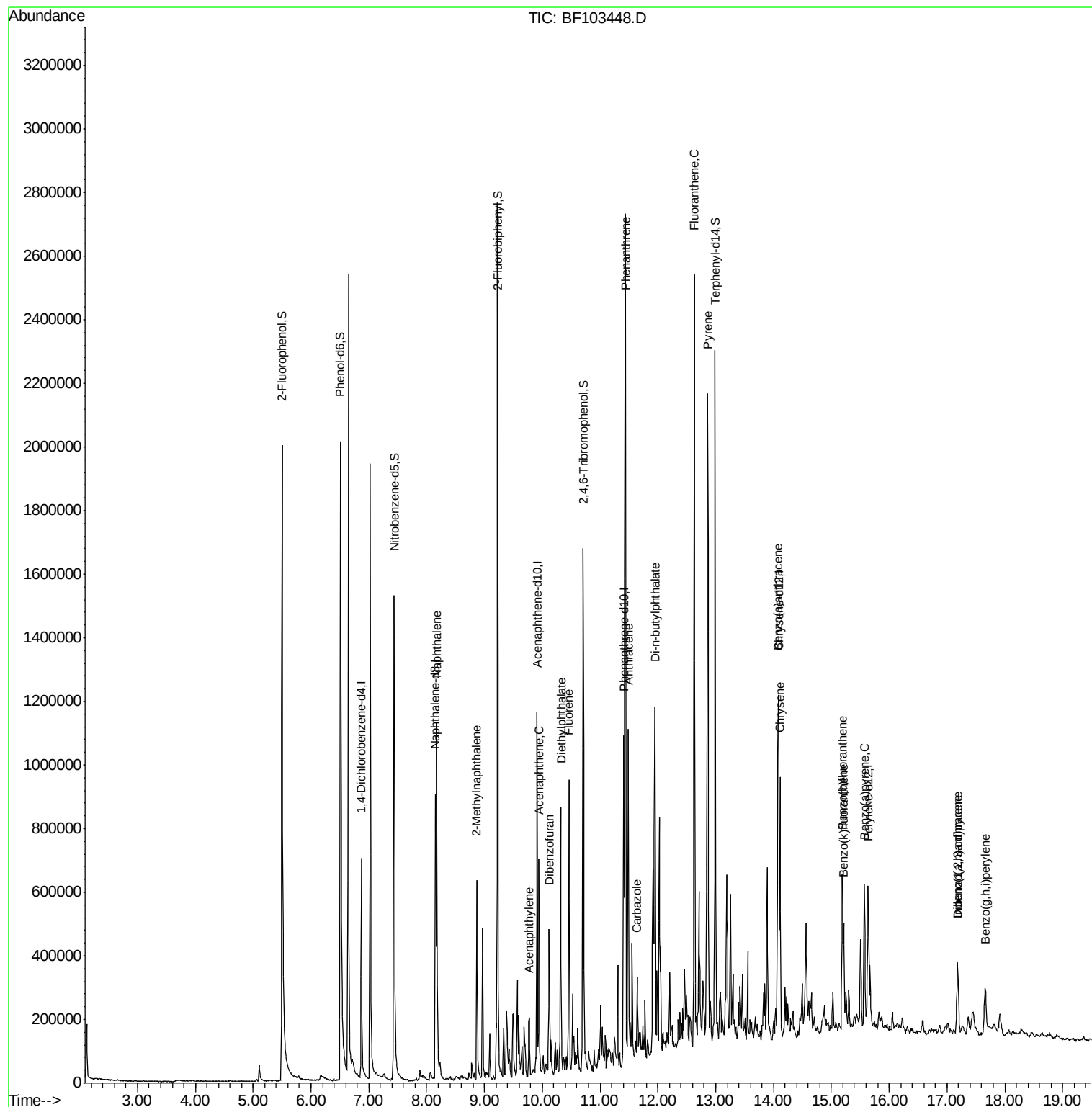
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\
Data File : BF103448.D
Acq On : 6 Mar 2018 11:50
Operator : SJ/JU
Sample : J1778-05
Misc :
ALS Vial : 4 Sample Multiplier: 1

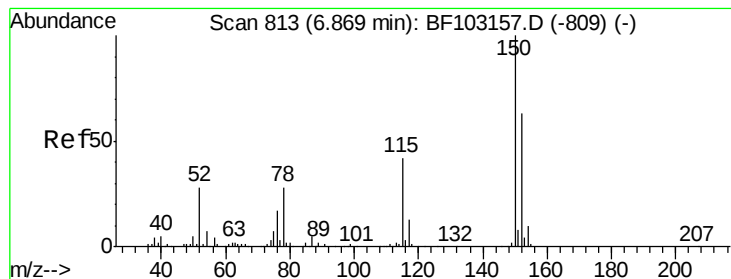
Instrument :
BNA_F
ClientSampleId :
TP-4

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Quant Time: Mar 06 13:03:57 2018
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#1

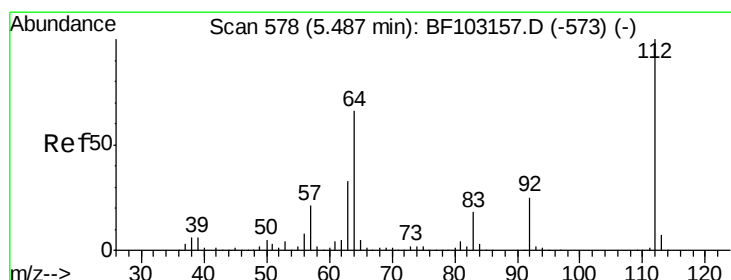
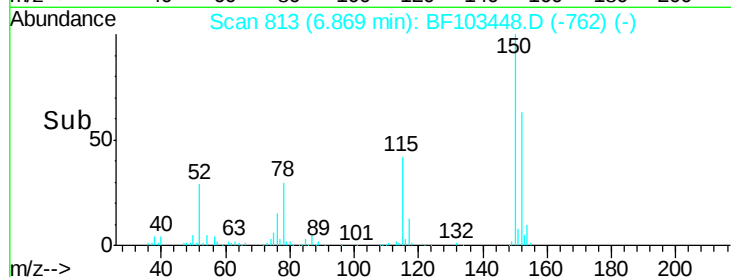
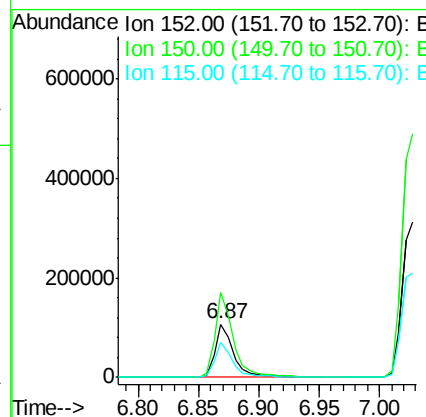
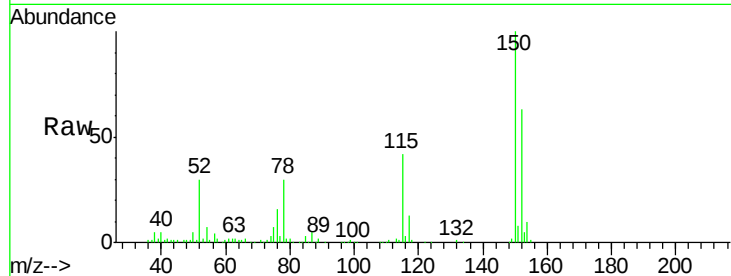
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	124.6	186.8
115	66.4	50.1	75.1

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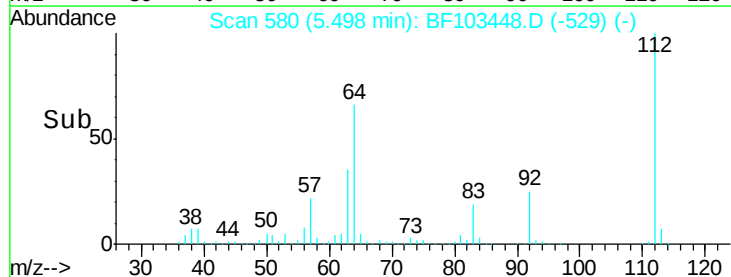
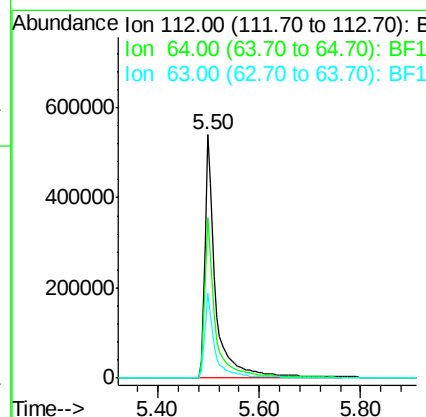
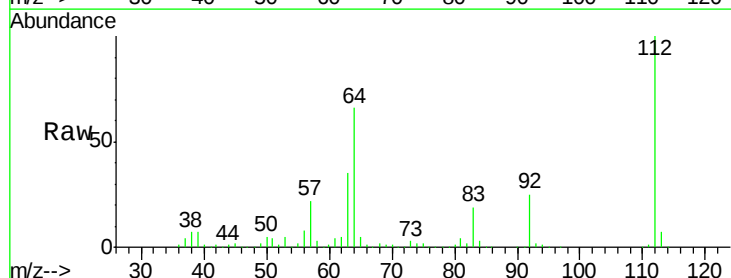
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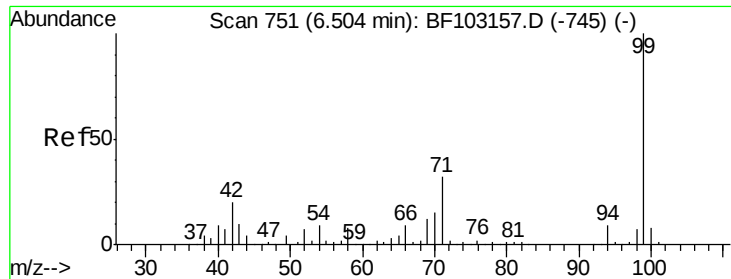


#5

2-Fluorophenol
Concen: 109.187 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	47.9	71.9
63	35.1	23.7	35.5





#7

Phenol-d6

Concen: 110.093 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Instrument :

BNA_F

ClientSampled :

TP-4

Tot Ion: 99 Resp: 1005117

Ion Ratio Lower Upper

99 100

42 21.7 14.5 21.7#

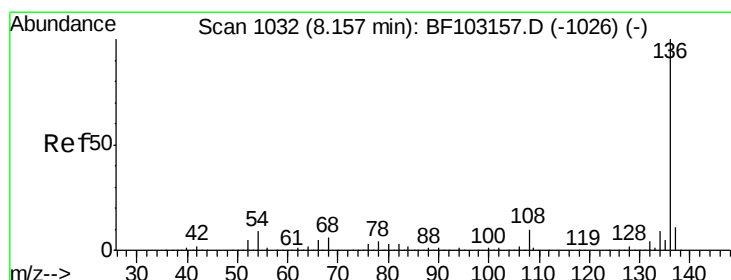
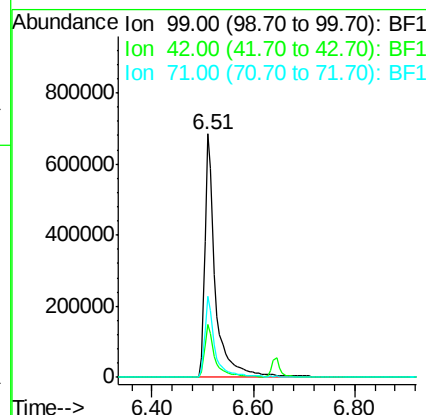
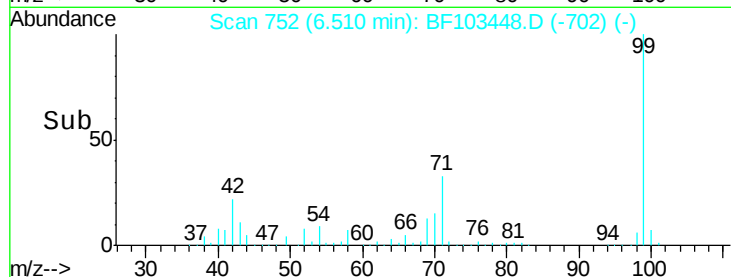
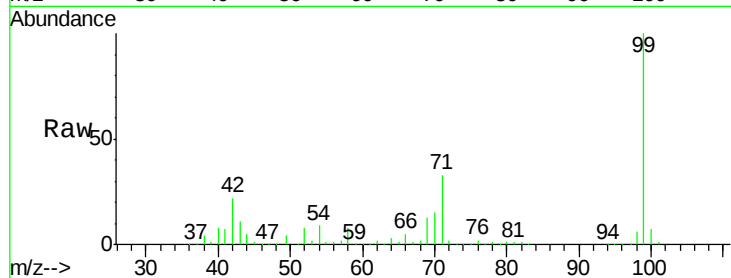
71 33.3 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Tgt Ion: 136 Resp: 476664

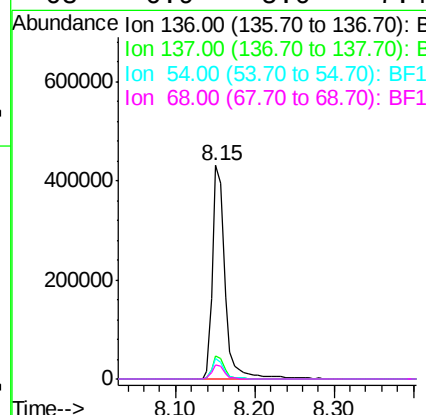
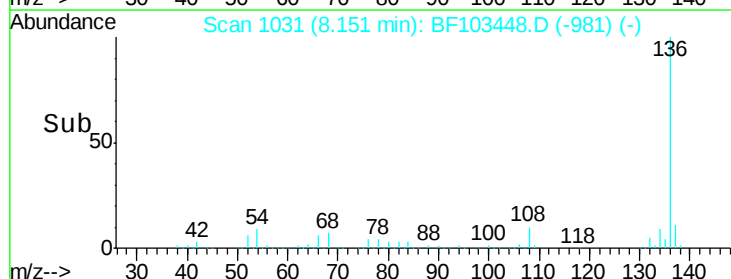
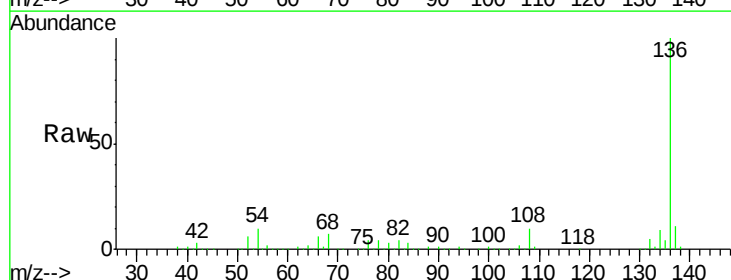
Ion Ratio Lower Upper

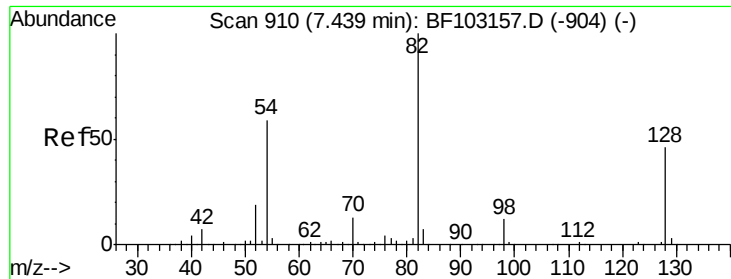
136 100

137 10.9 8.9 13.3

54 9.5 6.6 9.8

68 6.9 5.0 7.4





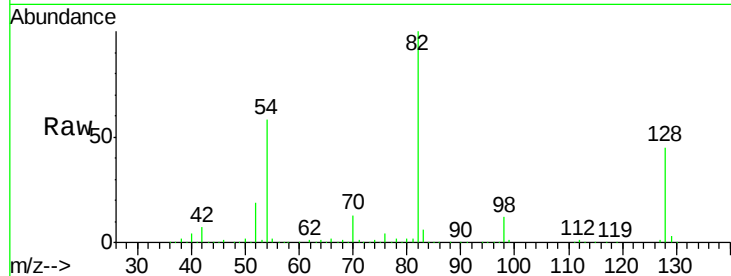
#23
Nitrobenzene-d5
Concen: 74.271 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

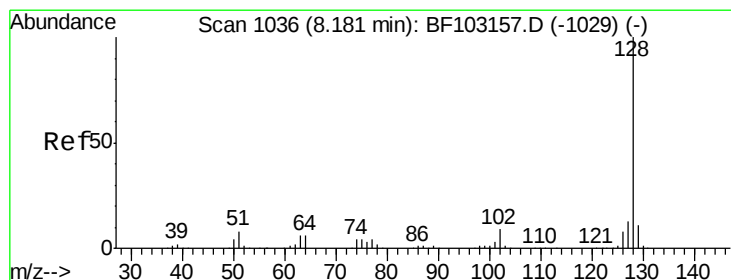
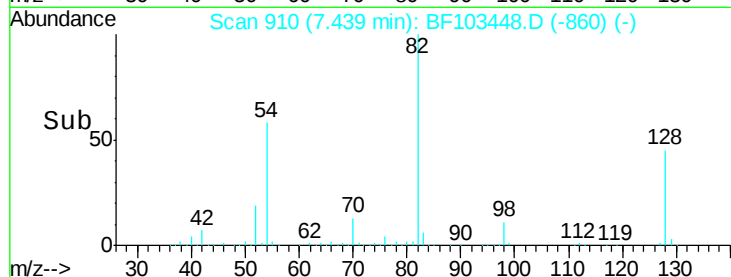
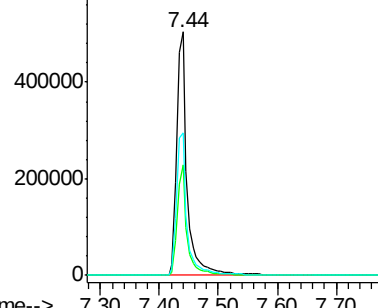
Tot Ion	Ratio	Resp	Lower	Upper
82	100	619911		
128	45.2	36.1	54.1	
54	58.5	41.4	62.2	

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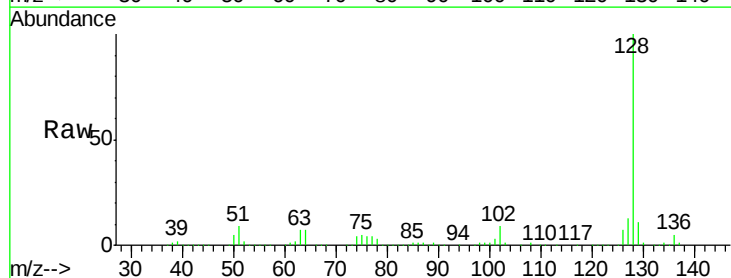


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

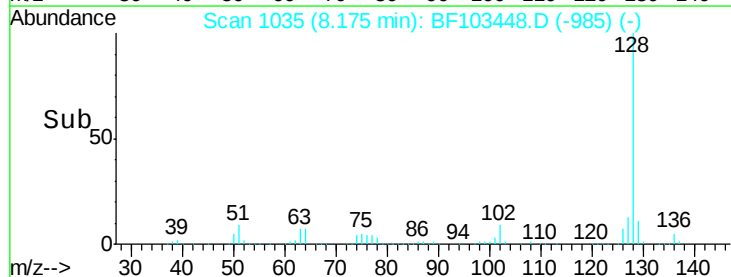
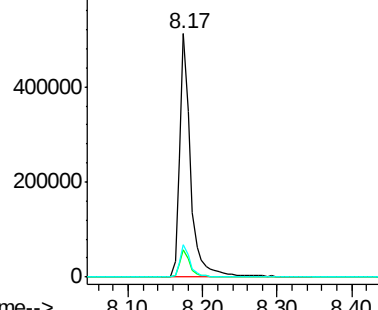


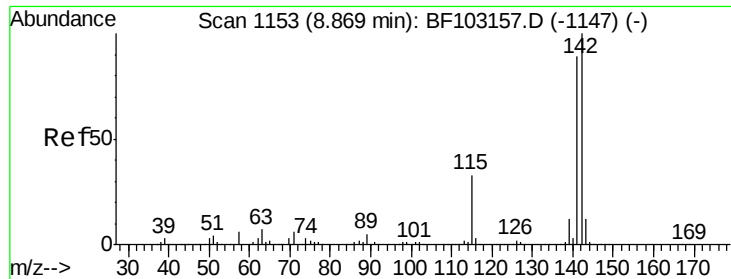
#31
Naphthalene
Concen: 22.681 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	529298		
129	11.4	8.8	13.2	
127	13.3	10.9	16.3	



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





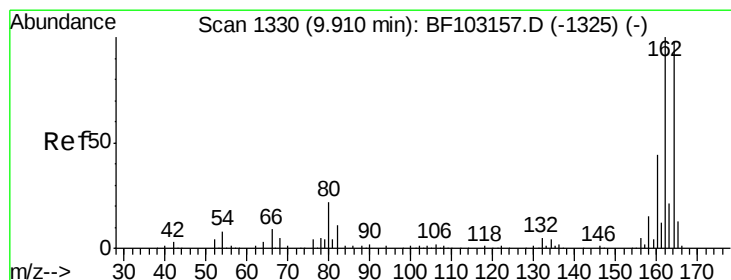
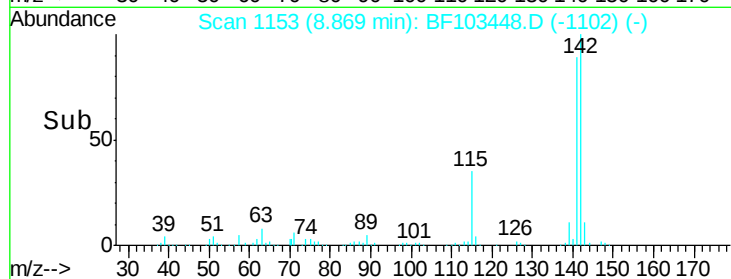
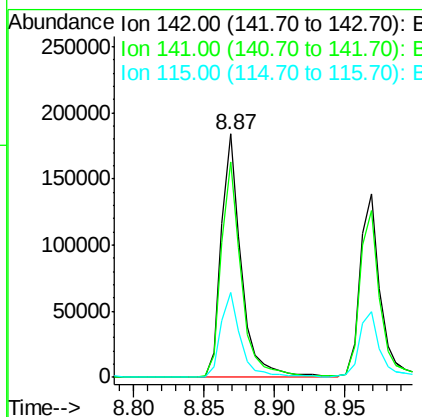
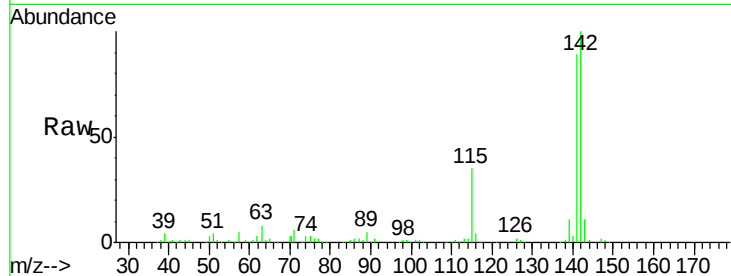
#37
2-Methylnaphthalene
Concen: 12.101 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	34.7	26.1	39.1

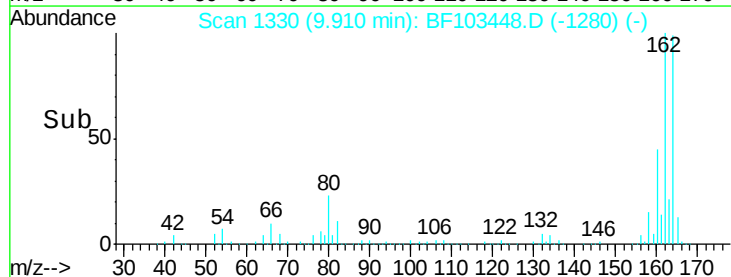
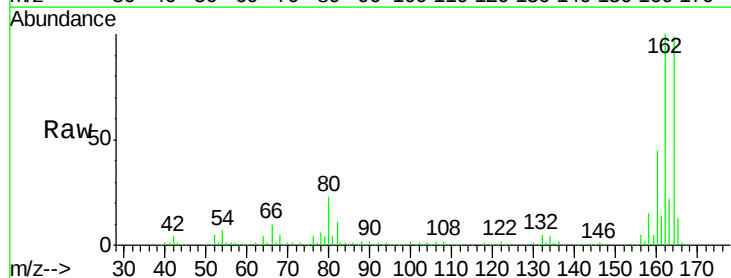
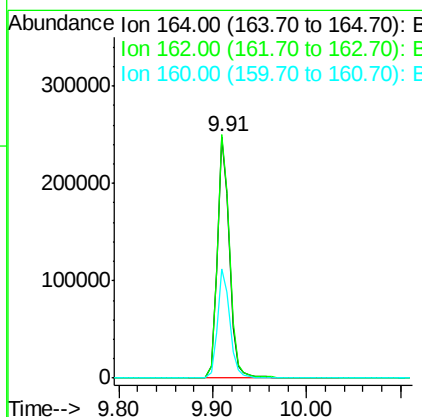
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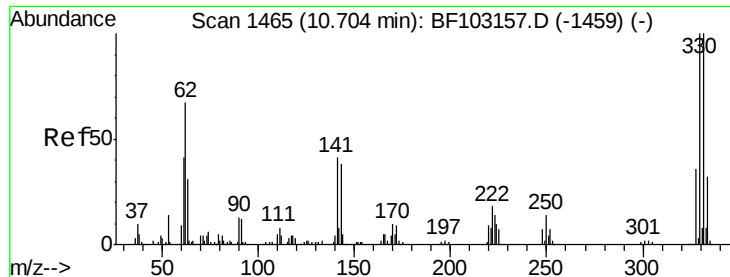
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	86.1	129.1
160	45.4	38.3	57.5





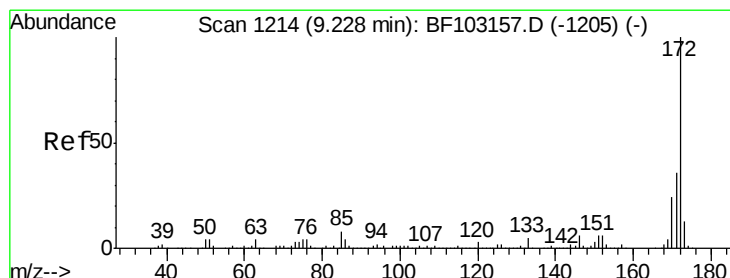
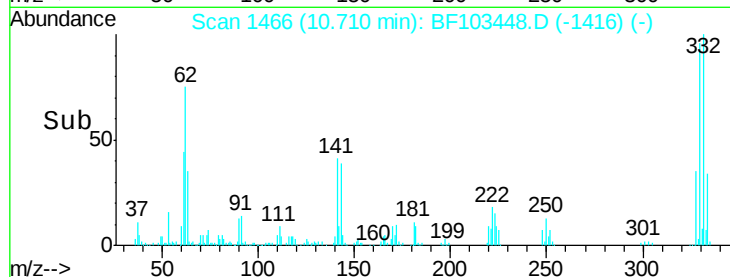
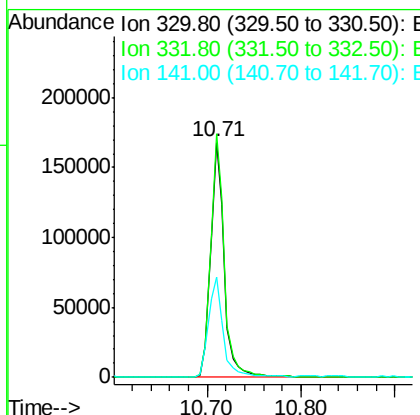
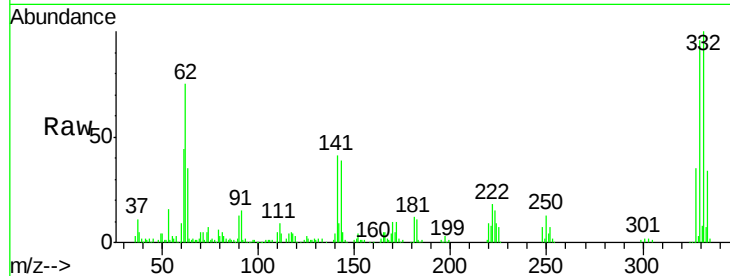
#41
 2,4,6-Tribromophenol
 Concen: 90.028 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF103448.D
 Acq: 6 Mar 2018 11:50

Instrument :
 BNA_F
 ClientSampled :
 TP-4

Tot Ion	Ratio	Lower	Upper
330	100		
332	103.3	77.0	115.6
141	45.1	29.9	44.9

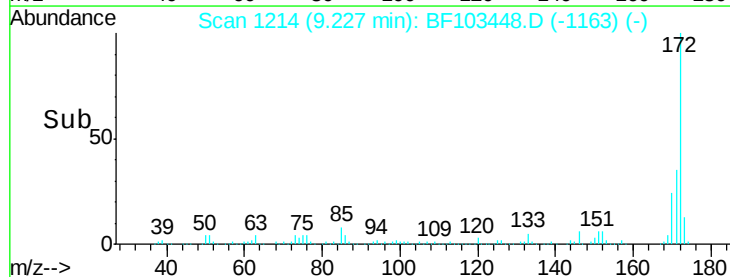
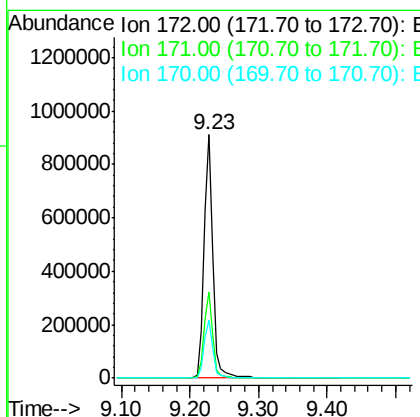
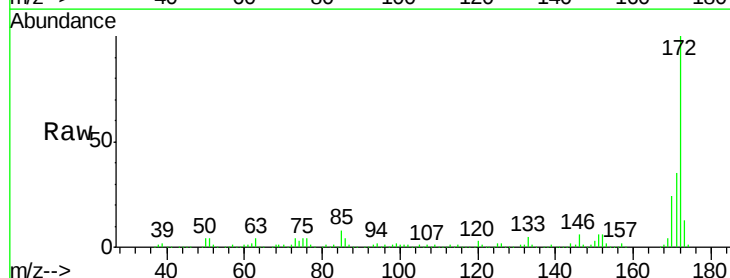
Manual Integrations
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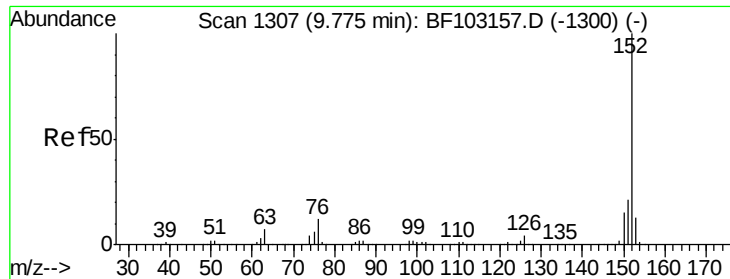
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#44
 2-Fluorobiphenyl
 Concen: 60.074 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.00 min
 Lab File: BF103448.D
 Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.9	19.6	29.4





#48

Acenaphthylene

Concen: 2.504 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Instrument :

BNA_F

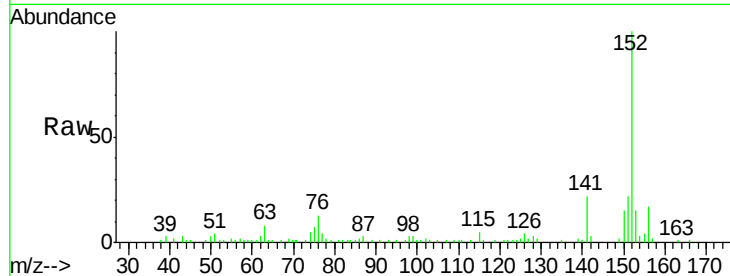
ClientSampled :

TP-4

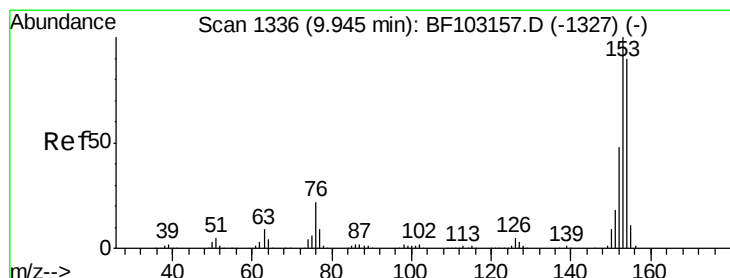
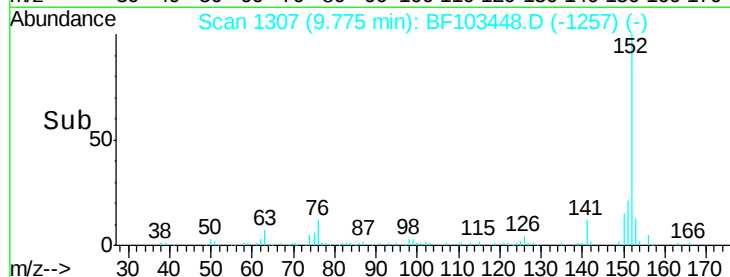
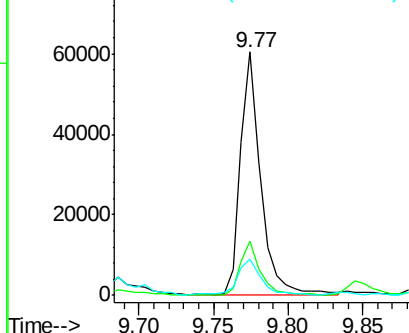
Tot Ion:	152	Resp:	58184
Ion Ratio	Lower	Upper	
152	100		
151	22.3	16.3	24.5
153	14.9	10.7	16.1

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



#51

Acenaphthene

Concen: 10.010 ng

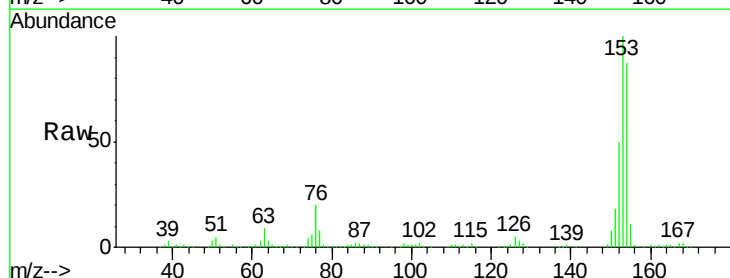
RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

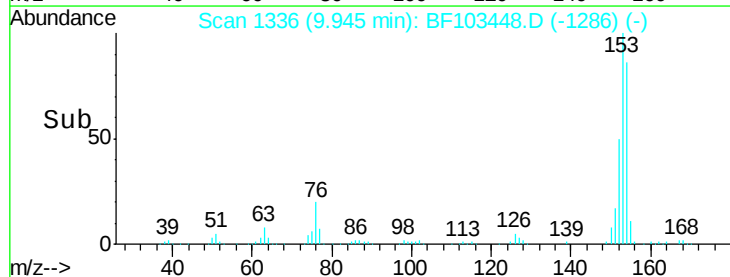
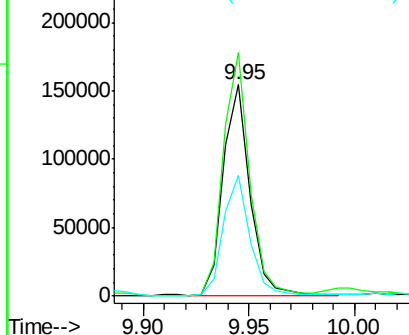
Lab File: BF103448.D

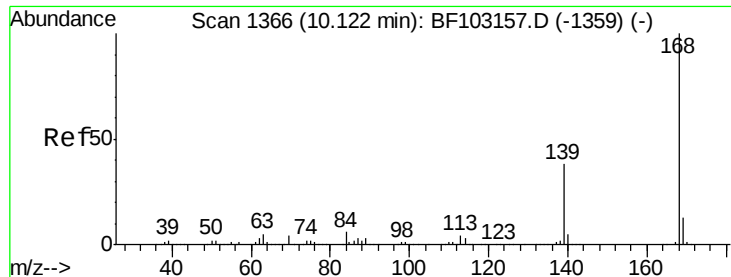
Acq: 6 Mar 2018 11:50

Tgt Ion:	154	Resp:	135663
Ion Ratio	Lower	Upper	
154	100		
153	115.4	91.2	136.8
152	57.5	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





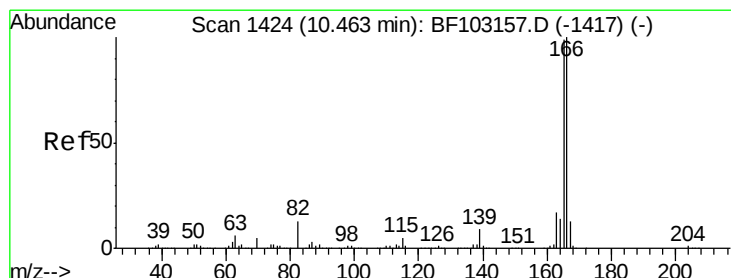
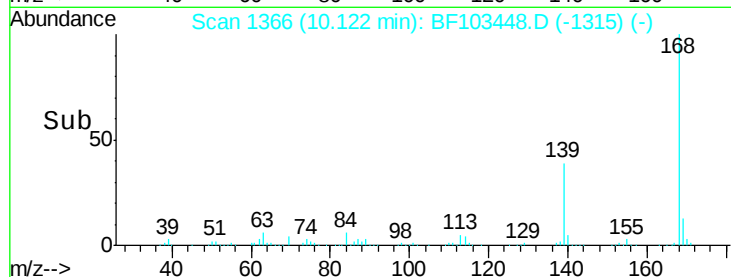
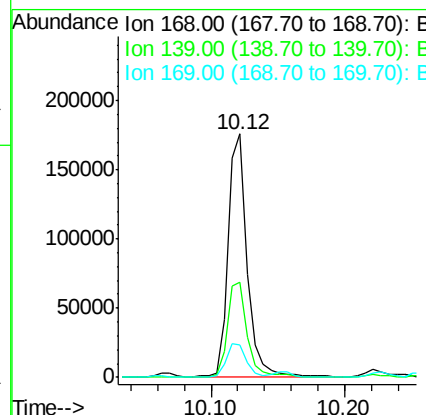
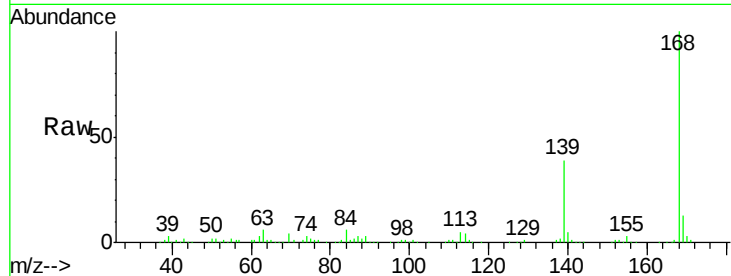
#54
Dibenzofuran
Concen: 9.441 ng
RT: 10.12 min Scan# 1366
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Resp	Lower	Upper
168	100	175628		
139	39.0		30.1	45.1
169	13.4		10.9	16.3

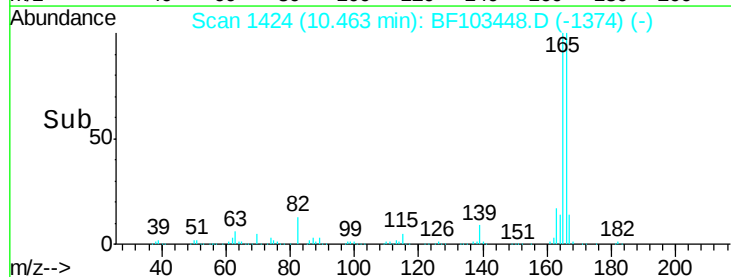
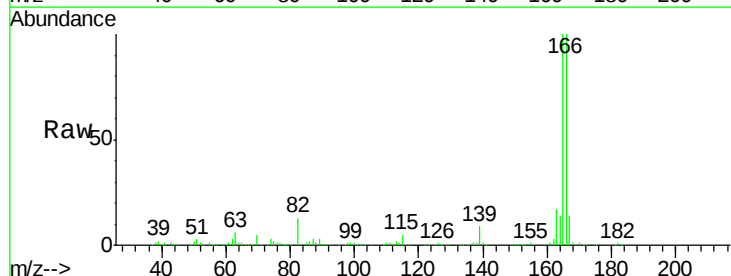
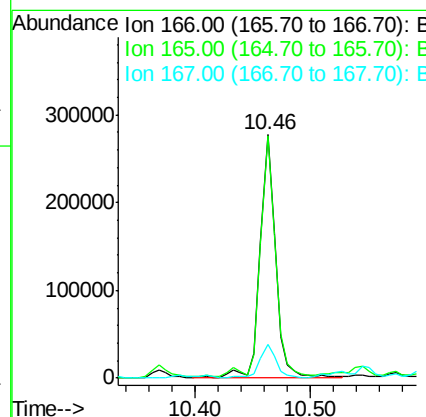
Manual Integrations
APPROVED

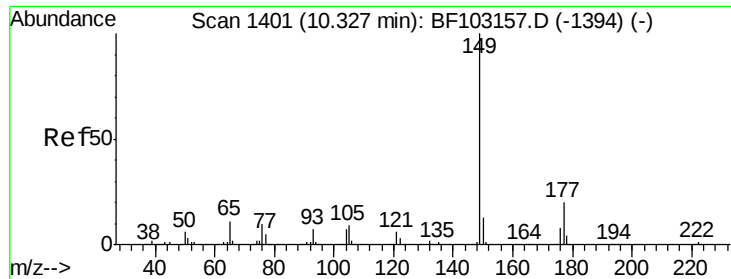
Sohil
3/7/2018 12:14:42 PM



#57
Fluorene
Concen: 16.309 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	258459		
165	99.7		79.8	119.8
167	13.8		10.6	16.0





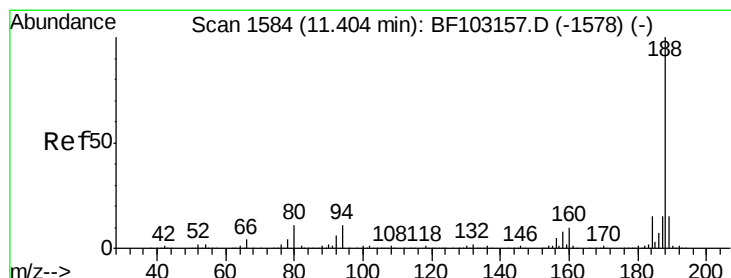
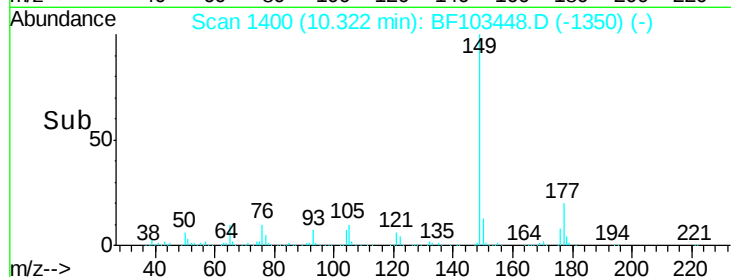
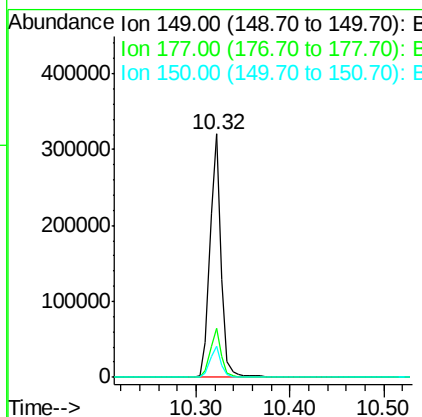
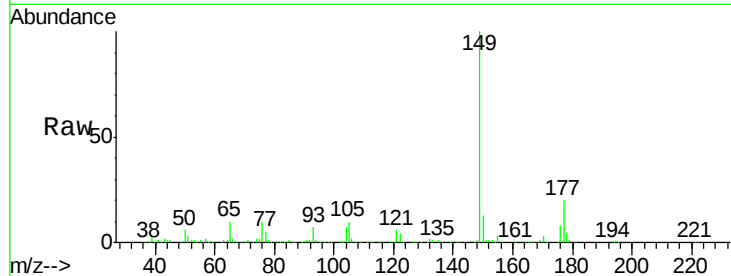
#59
Diethylphthalate
Concen: 15.412 ng
RT: 10.32 min Scan# 1400
Delta R.T. -0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
149	100		
177	20.2	16.1	24.1
150	12.5	10.1	15.1

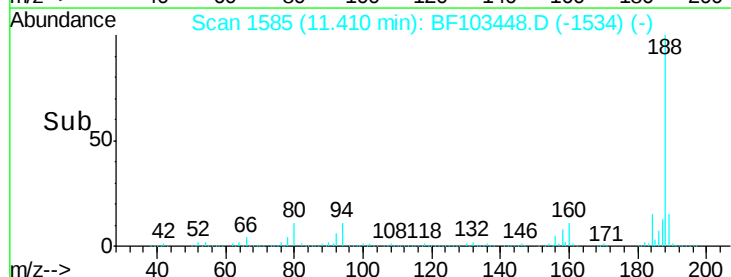
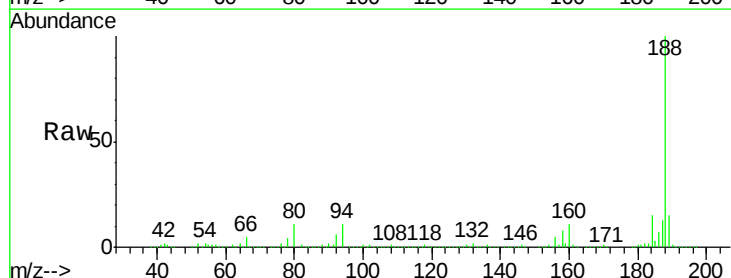
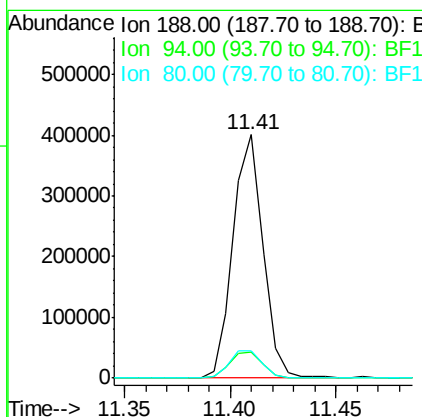
Manual Integrations
APPROVED

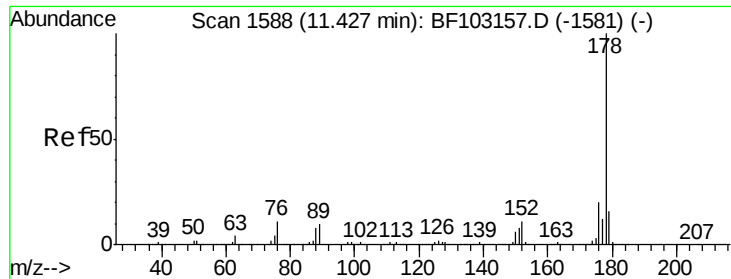
Sohil
3/7/2018 12:14:42 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.5	12.7
80	11.4	9.2	13.8





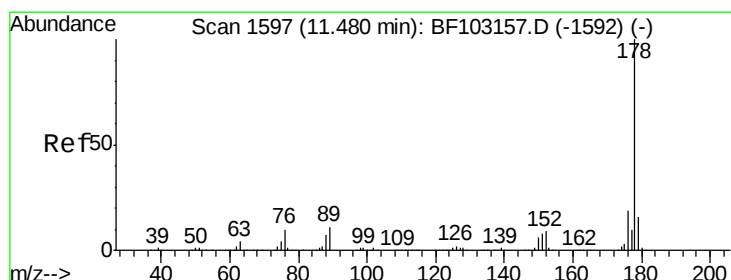
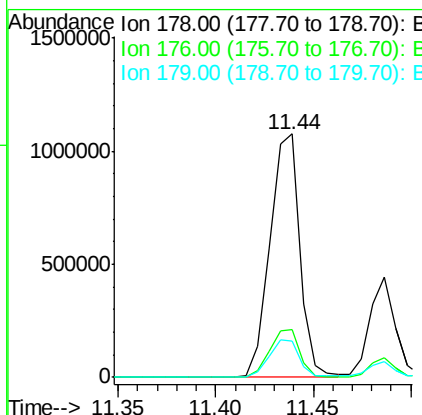
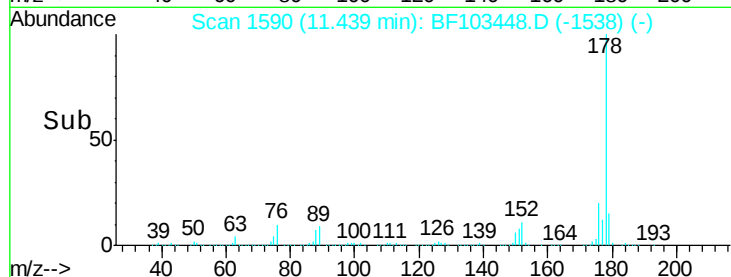
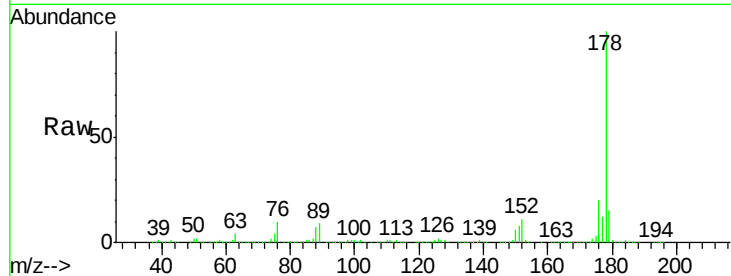
#70
Phenanthrene
Concen: 52.616 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion:178 Resp: 1140626
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 15.2 13.0 19.6

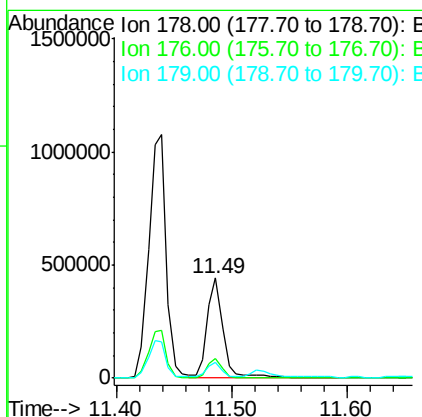
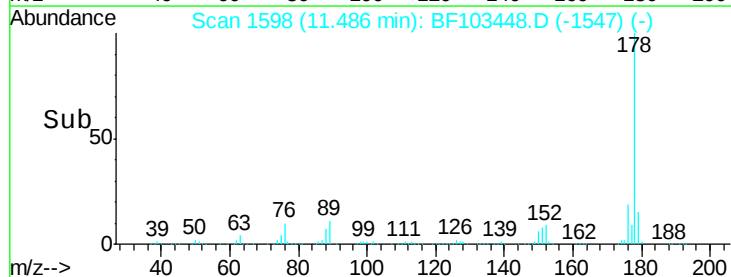
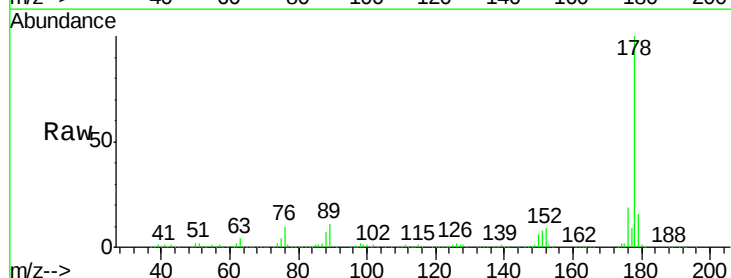
Manual Integrations
APPROVED

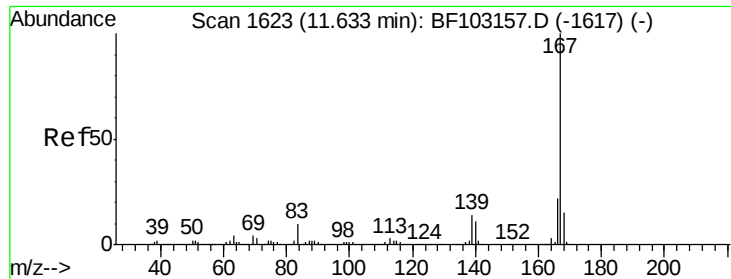
Sohil
3/7/2018 12:14:42 PM



#71
Anthracene
Concen: 19.344 ng
RT: 11.49 min Scan# 1598
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion:178 Resp: 430025
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.6 12.6 19.0





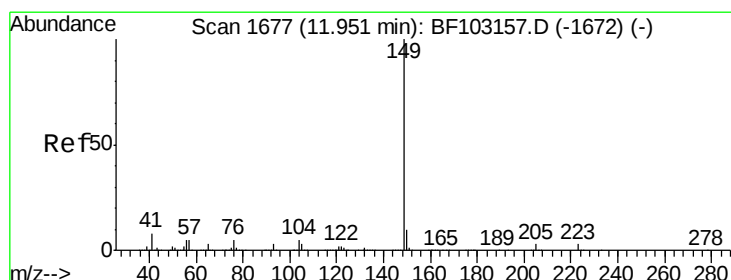
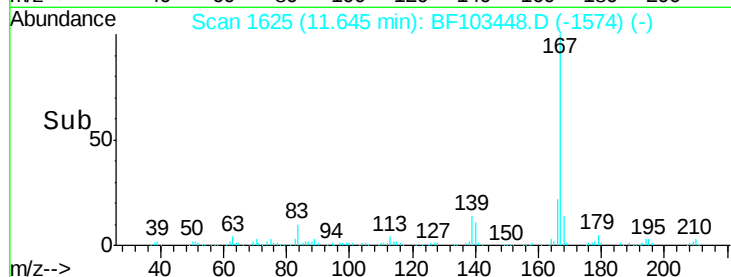
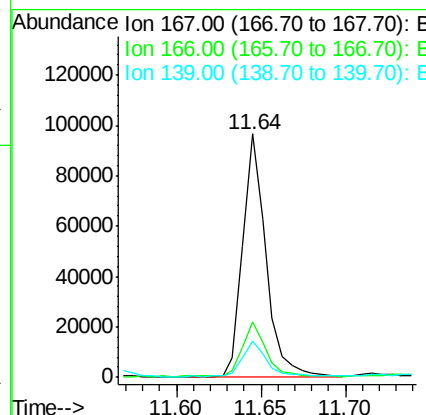
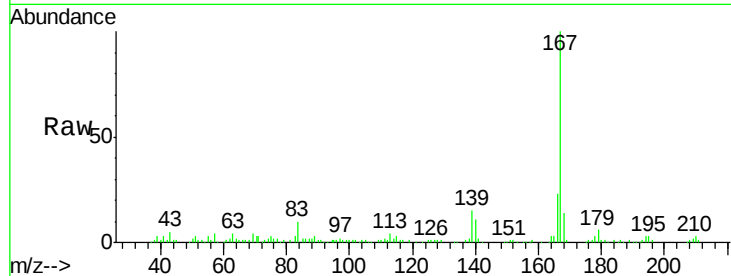
#72
 Carbazole
 Concen: 4.201 ng
 RT: 11.64 min Scan# 1625
 Delta R.T. 0.00 min
 Lab File: BF103448.D
 Acq: 6 Mar 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		92997		
166	22.9	17.6	26.4		
139	14.8	10.9	16.3		

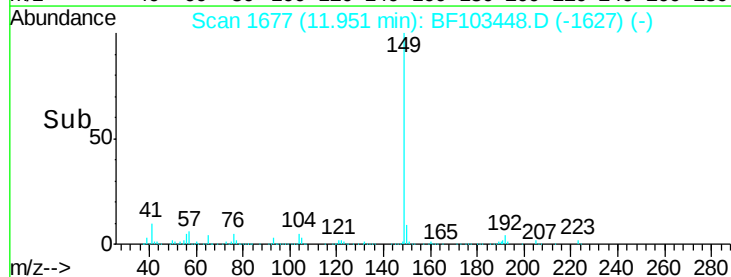
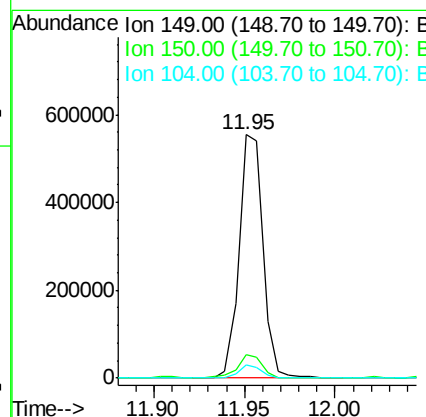
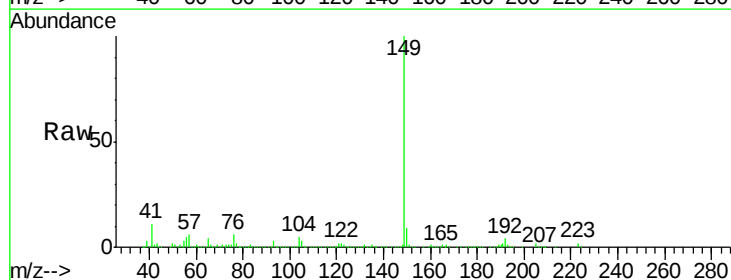
Manual Integrations
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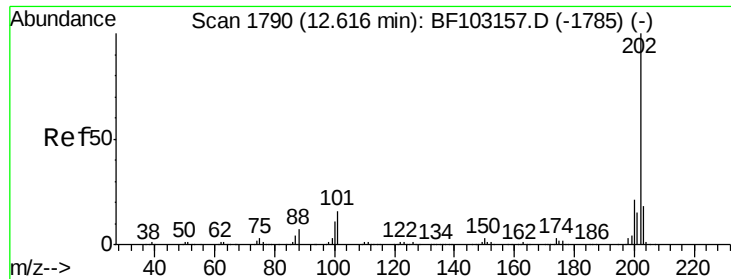
Sohil
 3/7/2018 12:14:42 PM



#73
 Di-n-butylphthalate
 Concen: 18.253 ng
 RT: 11.95 min Scan# 1677
 Delta R.T. -0.01 min
 Lab File: BF103448.D
 Acq: 6 Mar 2018 11:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
149	100		505624		
150	9.4	7.8	11.6		
104	5.2	3.8	5.8		





#74

Fluoranthene

Concen: 46.321 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.00 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Instrument :

BNA_F

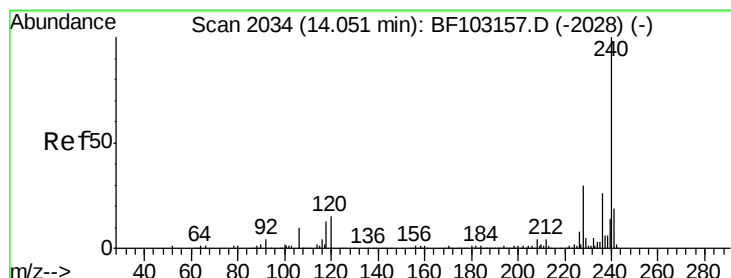
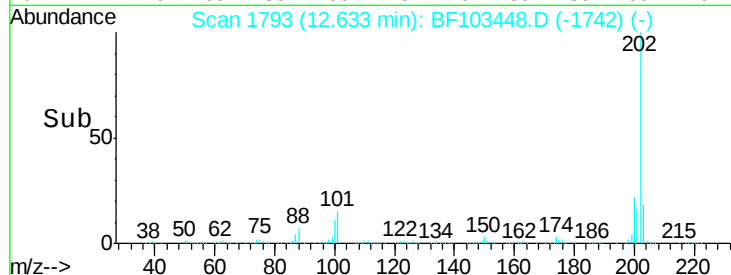
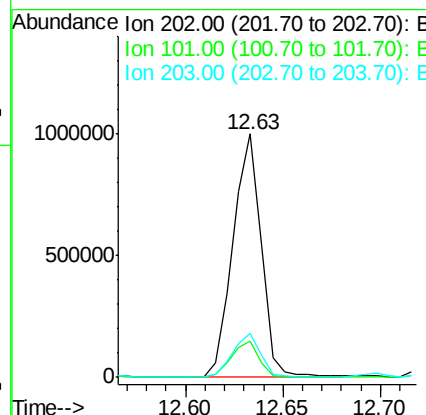
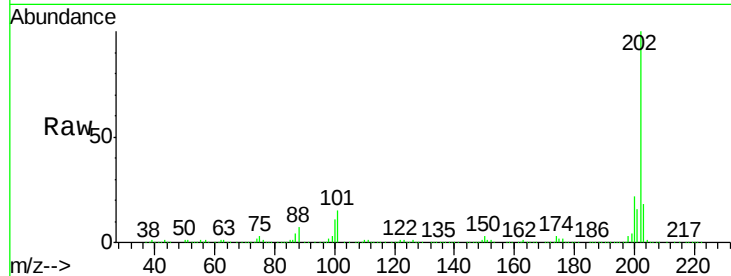
ClientSampled :

TP-4

Tot Ion:	202	Resp:	1009079
Ion Ratio	Lower	Upper	
202	100		
101	15.0	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

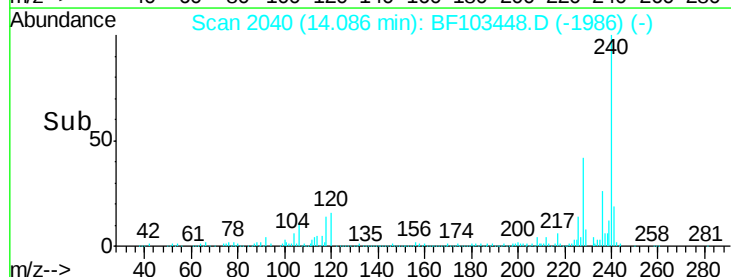
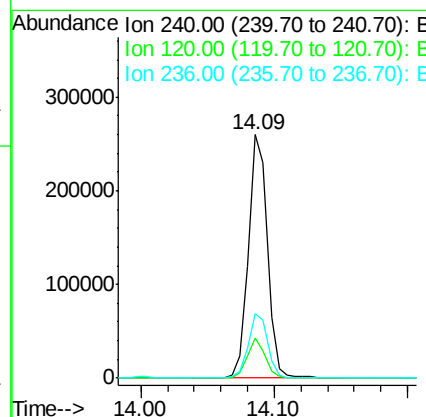
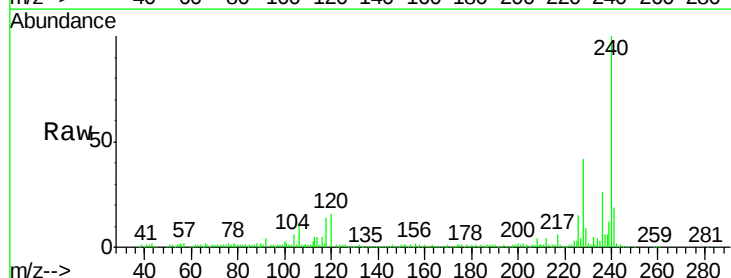
RT: 14.09 min Scan# 2040

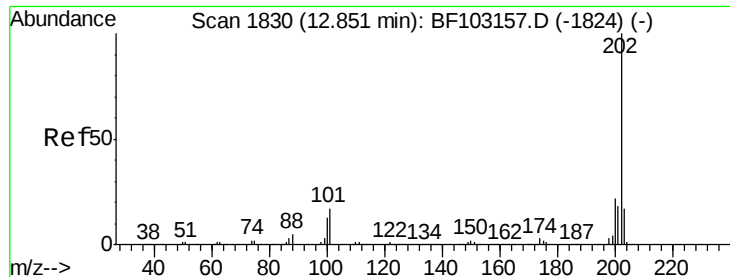
Delta R.T. 0.02 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Tgt Ion:	240	Resp:	255285
Ion Ratio	Lower	Upper	
240	100		
120	16.4	9.5	14.3#
236	26.3	20.7	31.1





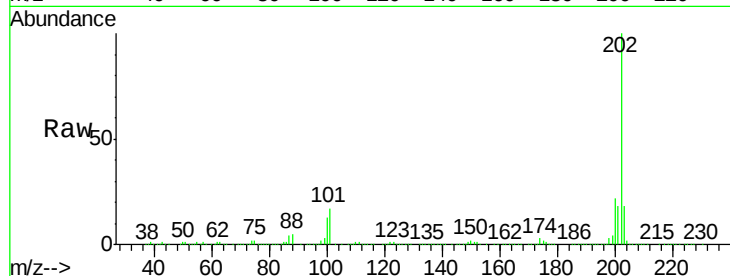
#77
Pvrene
Concen: 44.716 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

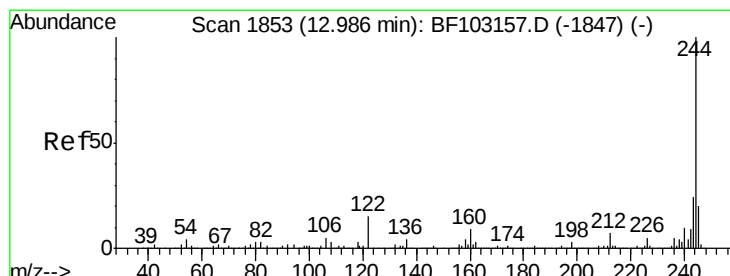
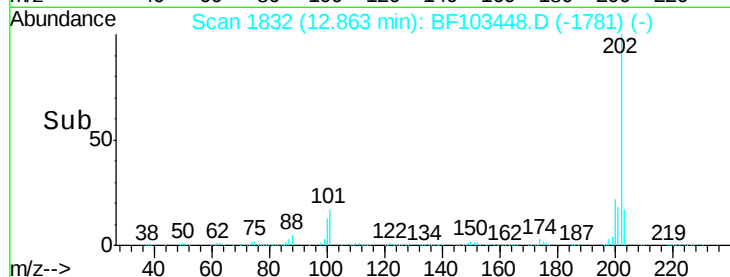
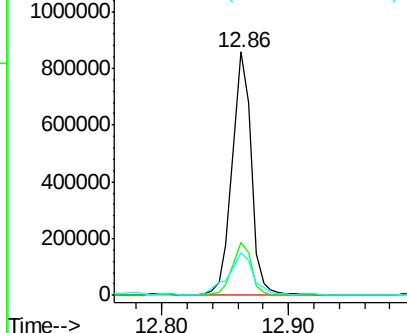
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	17.5	14.3	21.5

Manual Integrations
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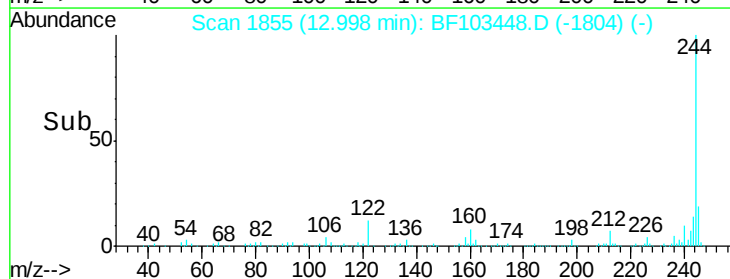
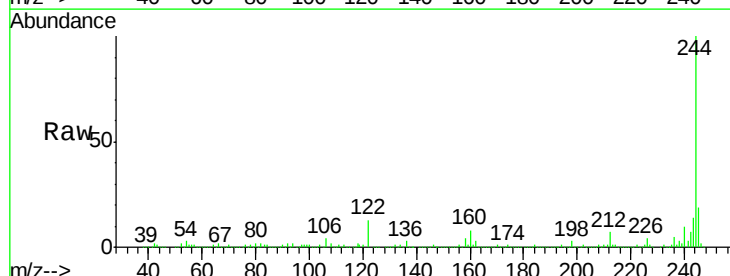
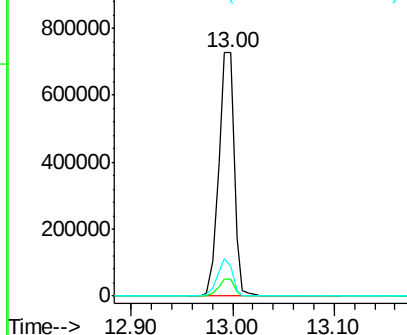
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

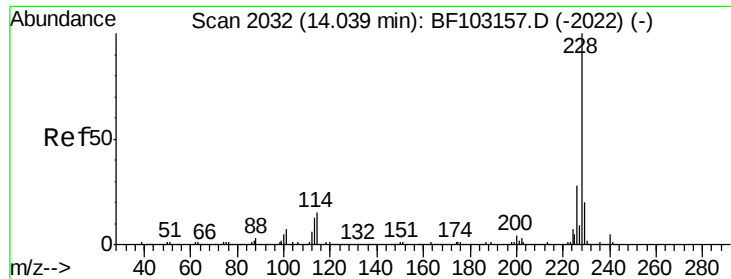


#78
Terphenyl-d14
Concen: 72.480 ng
RT: 13.00 min Scan# 1855
Delta R.T. 0.00 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	12.5	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





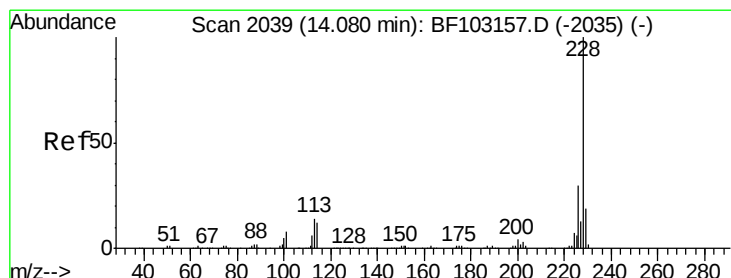
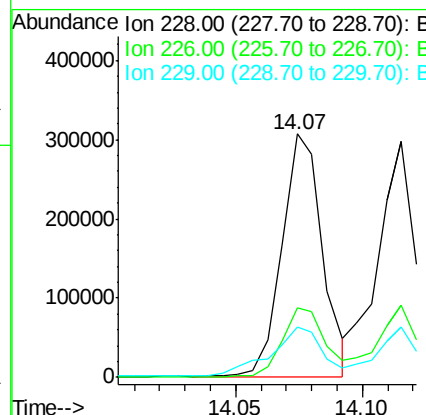
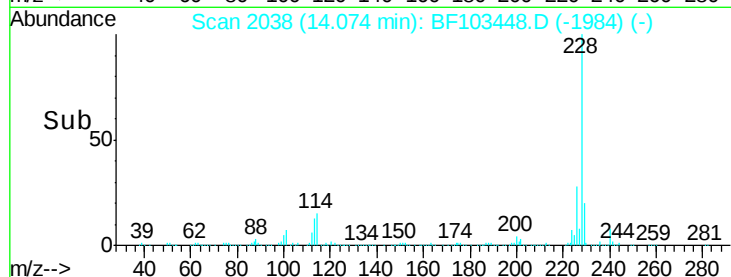
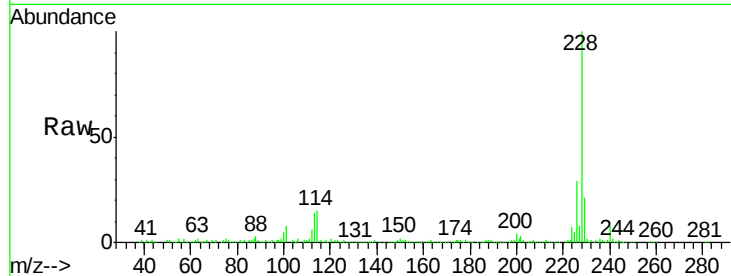
#80
Benzo(a)anthracene
Concen: 20.570 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.02 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.7	15.8	23.6

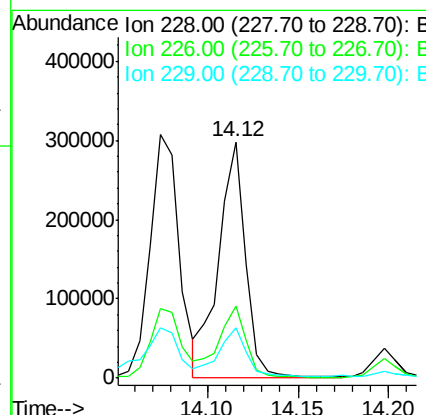
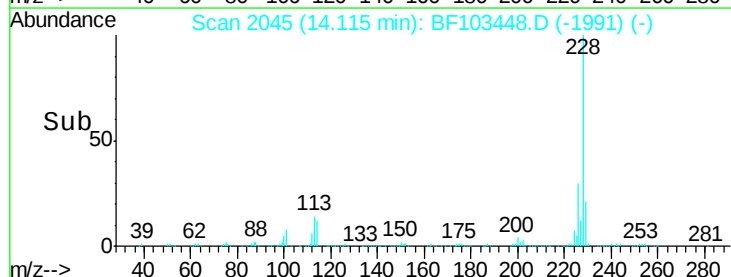
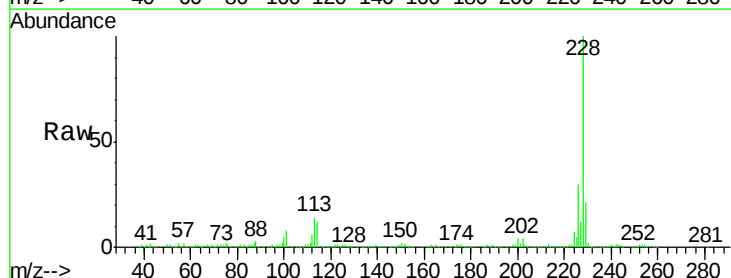
Manual Integrations
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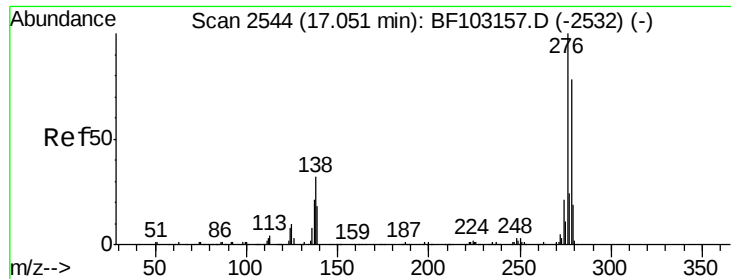
Sohil
3/7/2018 12:14:42 PM



#82
Chrysene
Concen: 18.974 ng
RT: 14.12 min Scan# 2045
Delta R.T. 0.02 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	21.2	16.2	24.4





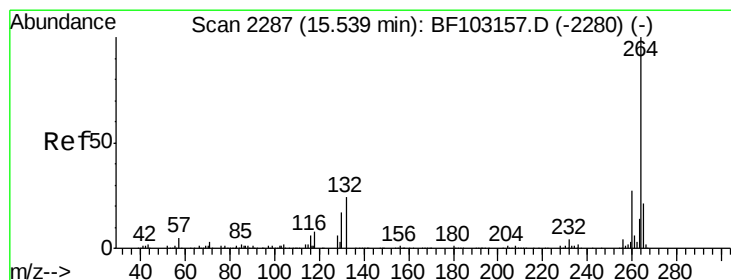
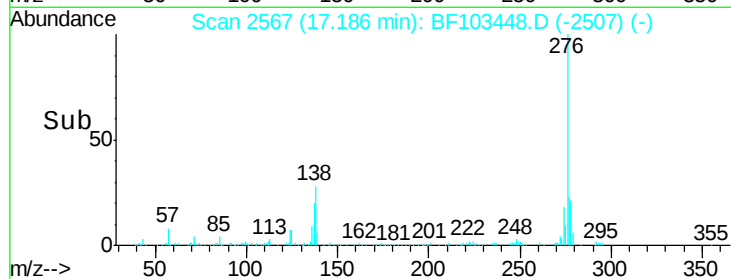
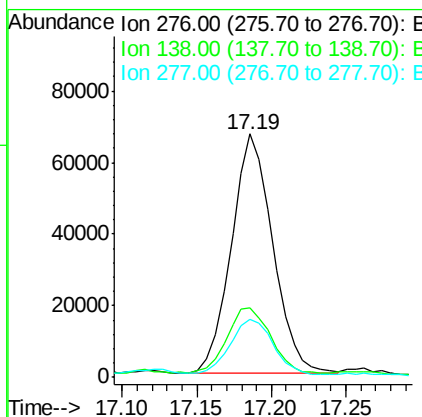
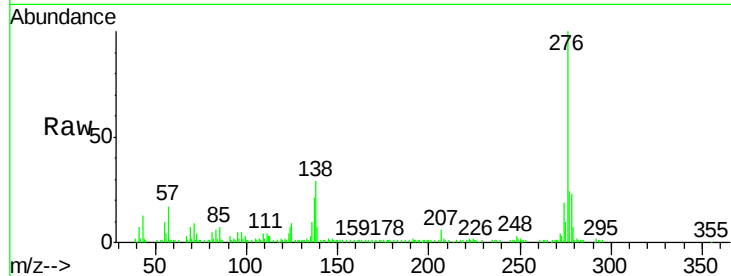
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.159 ng
RT: 17.19 min Scan# 2567
Delta R.T. 0.05 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.0	25.0	37.6
277	23.7	20.1	30.1

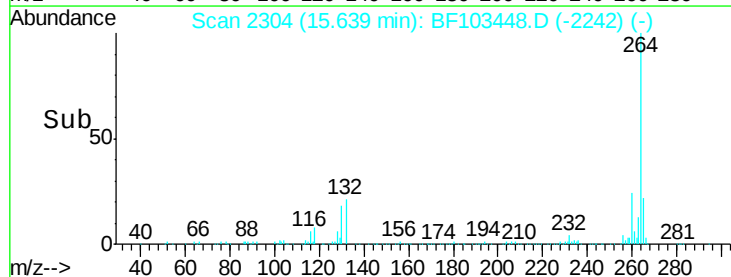
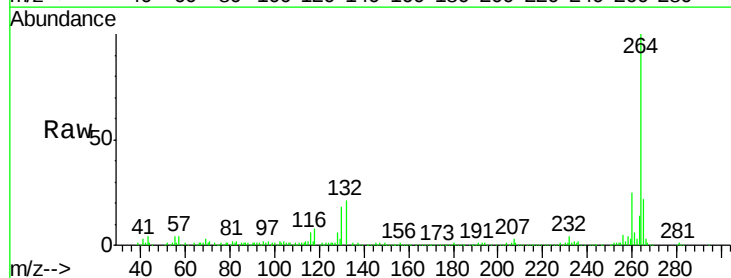
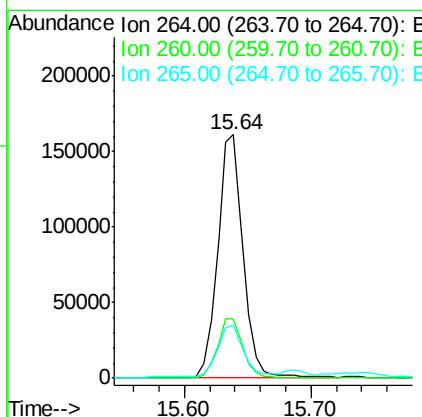
Manual Integrations
APPROVED

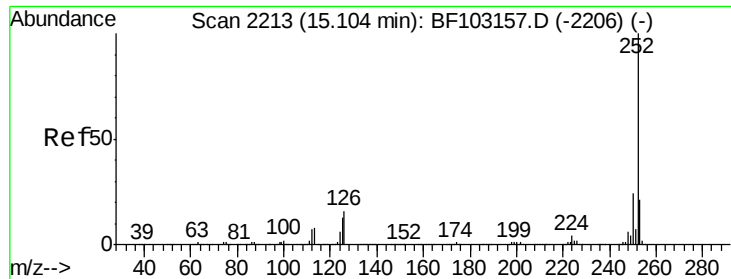
Sohil
3/7/2018 12:14:42 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.64 min Scan# 2304
Delta R.T. 0.06 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	21.9	17.5	26.3





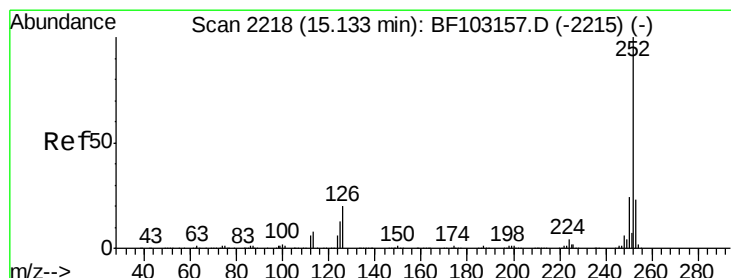
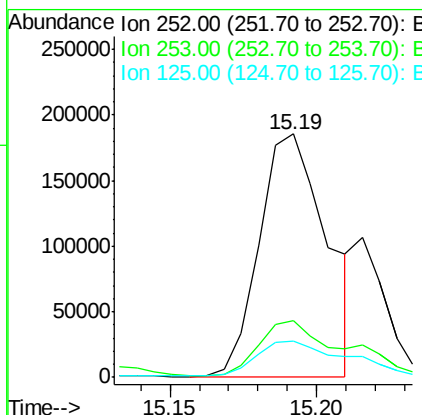
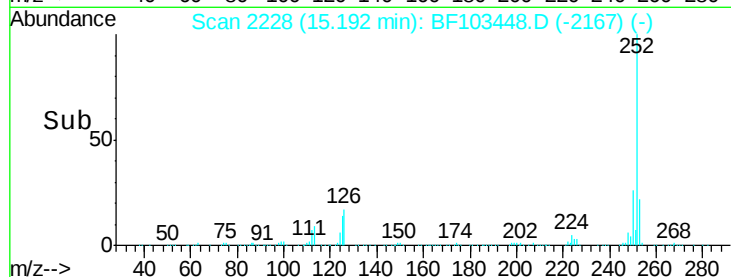
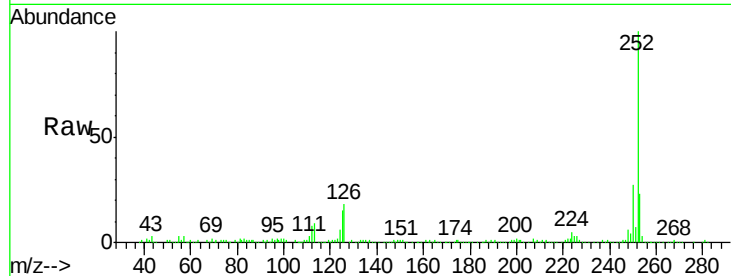
#87
Benzo(b)fluoranthene
Concen: 20.199 ng m
RT: 15.19 min Scan# 2228
Delta R.T. 0.06 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	15.0	9.0	13.6

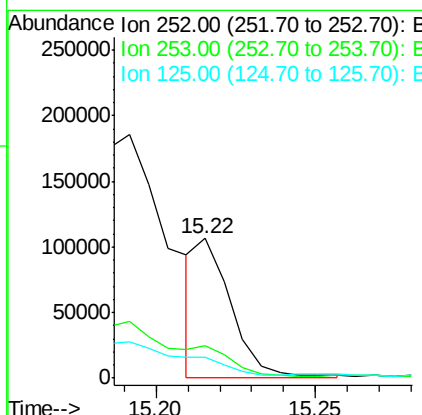
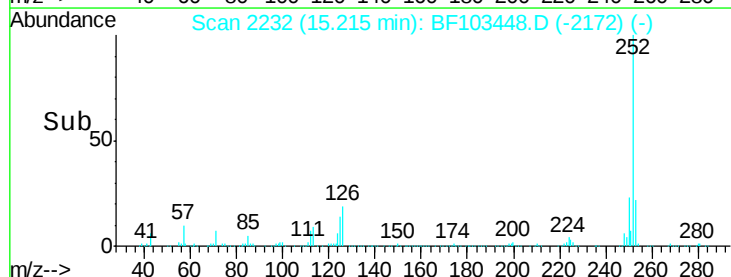
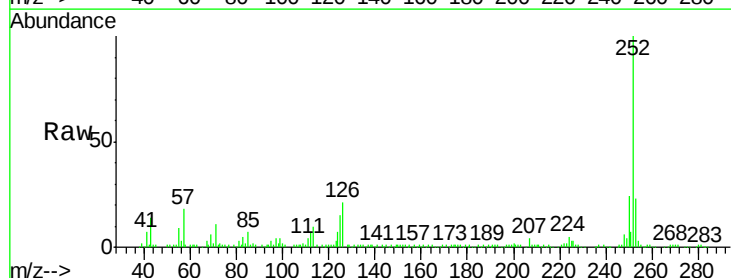
Manual Integrations
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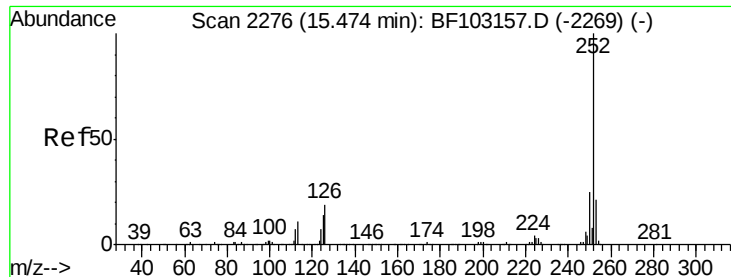
Sohil
3/7/2018 12:14:42 PM



#88
Benzo(k)fluoranthene
Concen: 5.822 ng m
RT: 15.22 min Scan# 2232
Delta R.T. 0.05 min
Lab File: BF103448.D
Acq: 6 Mar 2018 11:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	15.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 17.018 ng/mL

RT: 15.57 min Scan# 2293

Delta R.T. 0.06 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Instrument :

BNA_F

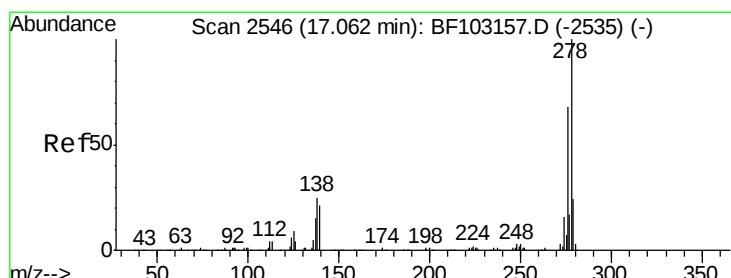
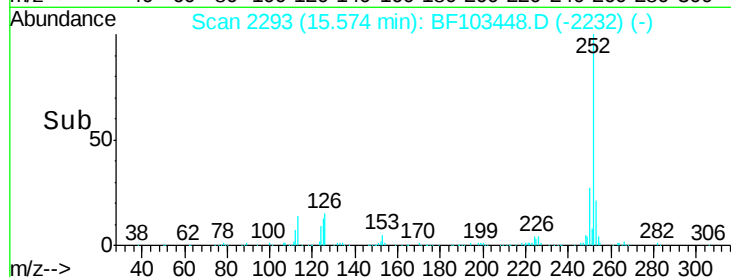
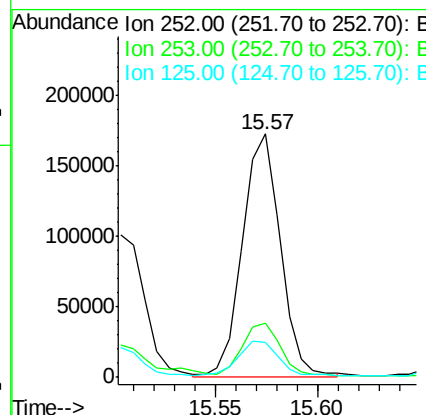
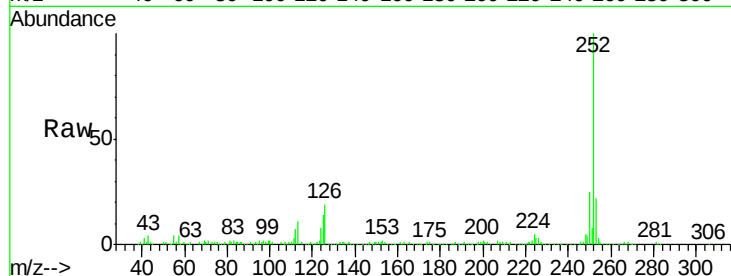
ClientSampled :

TP-4

Tot Ion:	252	Resp:	223991
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.1	25.7
125	14.3	9.8	14.6

Manual Integrations
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3/7/2018 12:14:42 PM



#90

Dibenzo(a,h)anthracene

Concen: 3.105 ng/mL

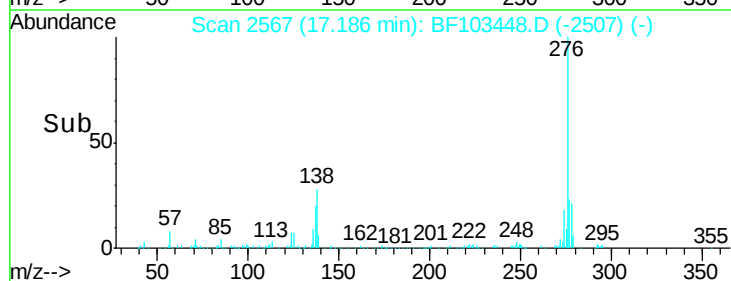
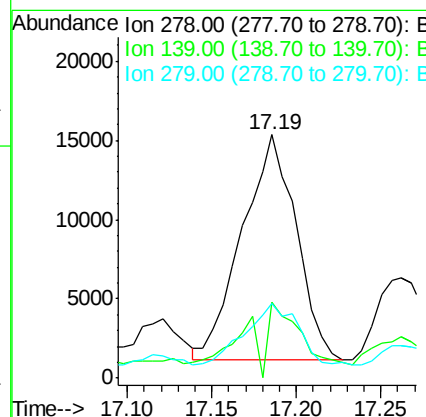
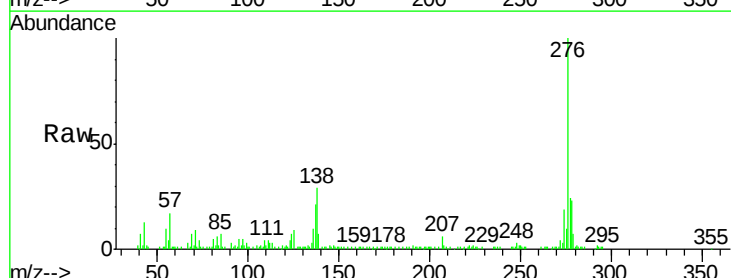
RT: 17.19 min Scan# 2567

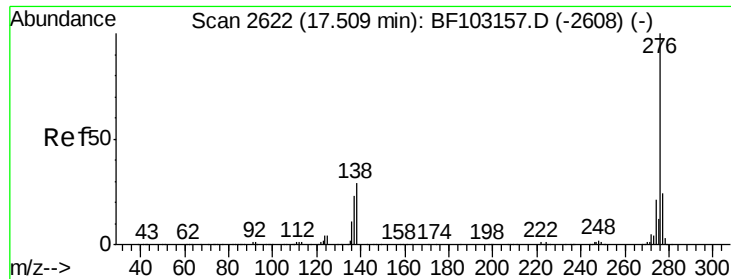
Delta R.T. 0.05 min

Lab File: BF103448.D

Acq: 6 Mar 2018 11:50

Tgt Ion:	278	Resp:	31574
Ion Ratio	Lower	Upper	
278	100		
139	31.1	15.9	23.9#
279	30.8	19.0	28.4#





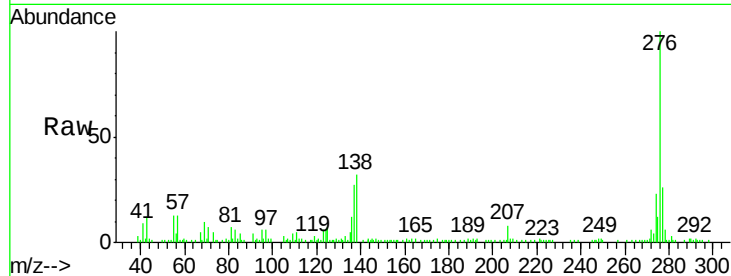
#91
 Benzo(a,h,i)perylene
 Concen: 12.487 ng
 RT: 17.66 min Scan# 2648
 Delta R.T. 0.06 min
 Lab File: BF103448.D
 Acq: 6 Mar 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion:	276	Resp:	124116
Ion Ratio	Lower	Upper	
276	100		
277	25.7	17.9	26.9
138	31.7	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 3/7/2018 12:14:42 PM



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

