

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101488.D
 Acq On : 18 Dec 2017 18:42
 Operator : SJ/JU
 Sample : I6677-05 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

Manual Integrations
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Quant Time: Dec 19 06:18:30 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	147097	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	539090	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	210352	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	322894	20.00	ng	0.00
75) Chrysene-d12	13.99	240	262840	20.00	ng	0.00
86) Perylene-d12	15.47	264	272183	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	186596	18.90	ng	0.00
7) Phenol-d6	6.45	99	231416	18.83	ng	0.00
23) Nitrobenzene-d5	7.38	82	123188	12.72	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	33883	16.72	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	237103	17.49	ng	0.00
78) Terphenyl-d14	12.92	244	155377	14.25	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	664995	24.503	ng	99
37) 2-Methylnaphthalene	8.80	142	265544	15.018	ng	99
45) 1,1'-Biphenyl	9.27	154	57013	3.056	ng	96
48) Acenaphthylene	9.71	152	140670	6.239	ng	97
51) Acenaphthene	9.88	154	151437	11.180	ng	100
54) Dibenzofuran	10.06	168	194034	11.272	ng	98
57) Fluorene	10.40	166	315197	21.645	ng	98
70) Phenanthrene	11.37	178	1298035	72.287	ng	98
71) Anthracene	11.42	178	457255	24.929	ng	99
72) Carbazole	11.57	167	103063	6.001	ng	98
74) Fluoranthene	12.56	202	1310209	69.514	ng	98
77) Pyrene	12.79	202	1268473	64.304	ng	99
80) Benzo(a)anthracene	13.98	228	699399	40.298	ng	98
82) Chrysene	14.02	228	612397	37.371	ng	98
85) Indeno(1,2,3-cd)pyrene	16.95	276	284811	19.518	ng	# 91
87) Benzo(b)fluoranthene	15.04	252	718161m	43.288	ng	
88) Benzo(k)fluoranthene	15.06	252	215214m	13.342	ng	
89) Benzo(a)pyrene	15.41	252	546541	35.736	ng	96
90) Dibenzo(a,h)anthracene	16.95	278	78342m	5.966	ng	
91) Benzo(g,h,i)perylene	17.40	276	274280	21.094	ng	94

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

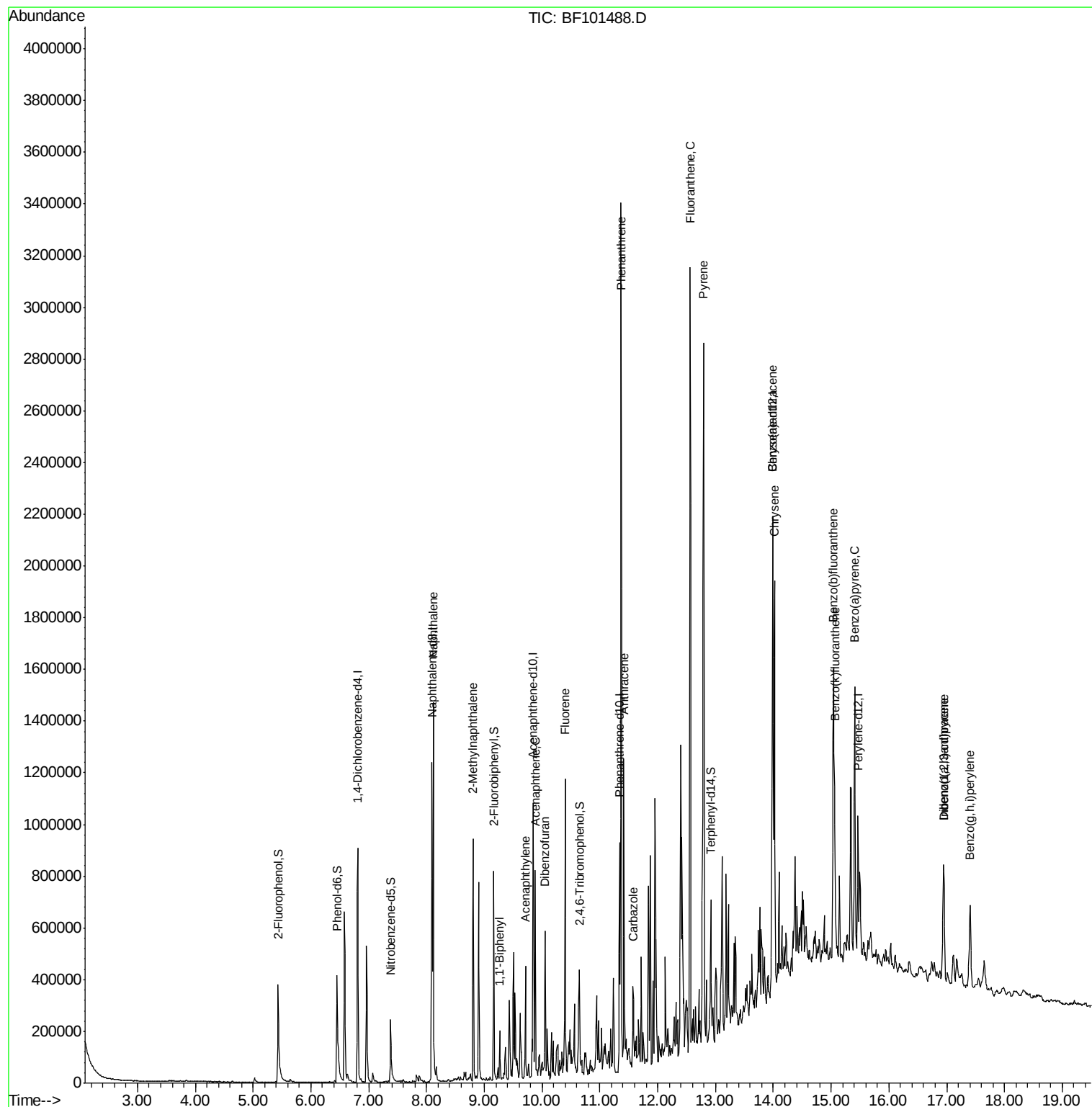
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
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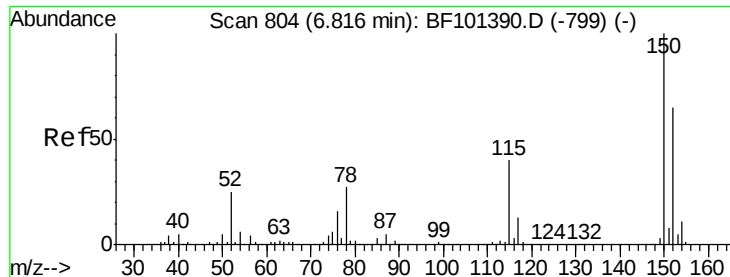
Instrument :
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ClientSampleId :
OR-01-121517-A

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Quant Time: Dec 19 06:18:30 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 18 15:38:59 2017
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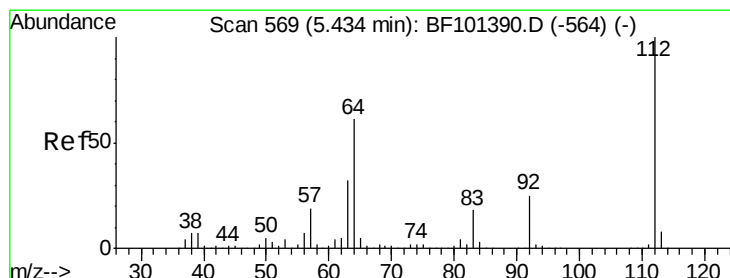
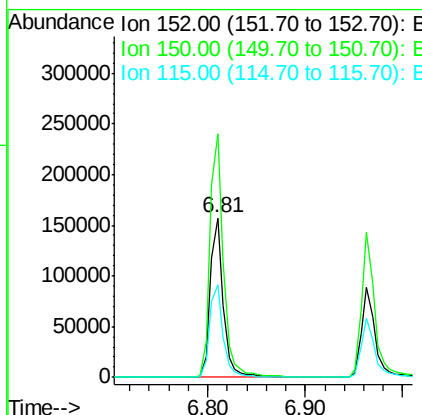
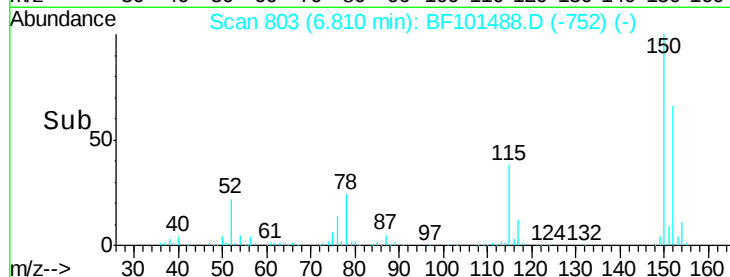
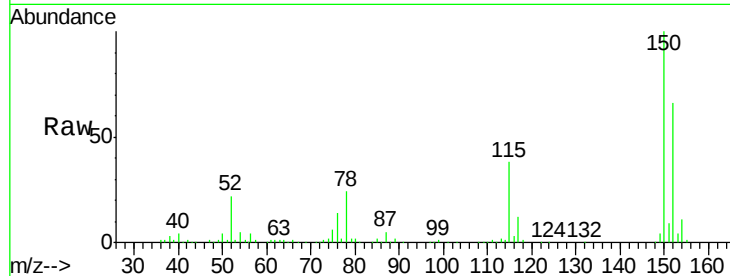
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 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.6	186.8
115	58.2	50.1	75.1

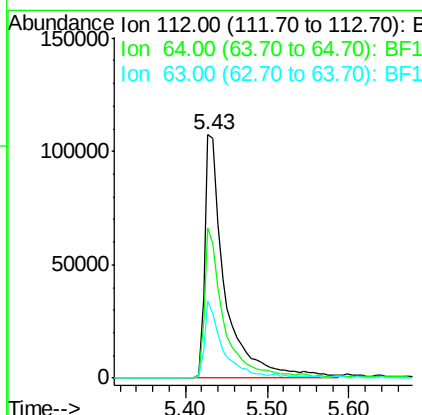
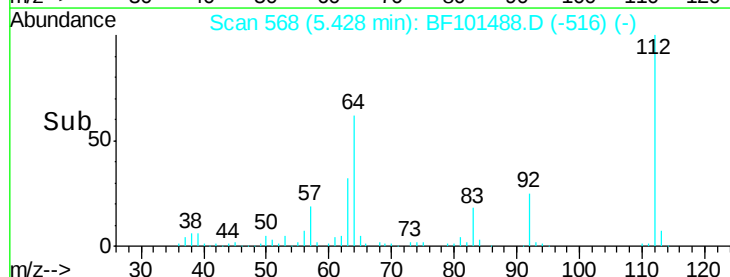
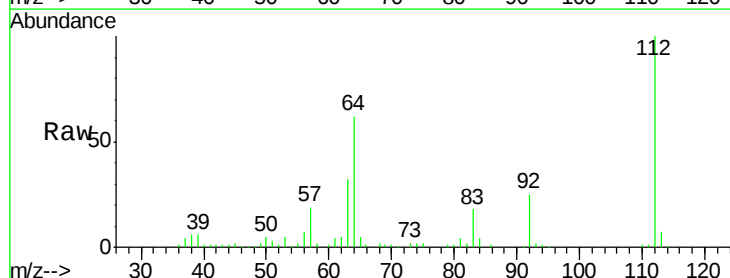
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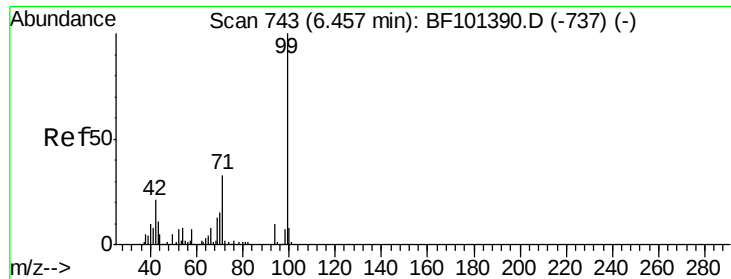
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#5
 2-Fluorophenol
 Concen: 18.896 ng
 RT: 5.43 min Scan# 568
 Delta R.T. 0.01 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	47.9	71.9
63	31.9	23.7	35.5





#7

Phenol-d6

Concen: 18.830 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

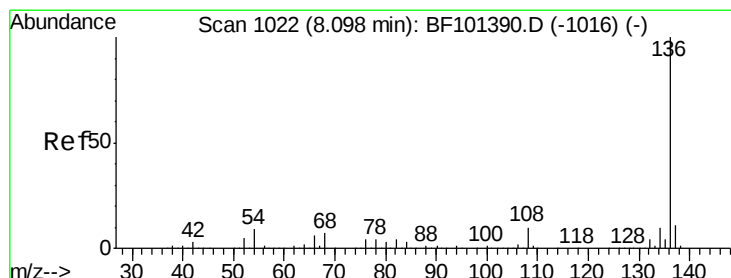
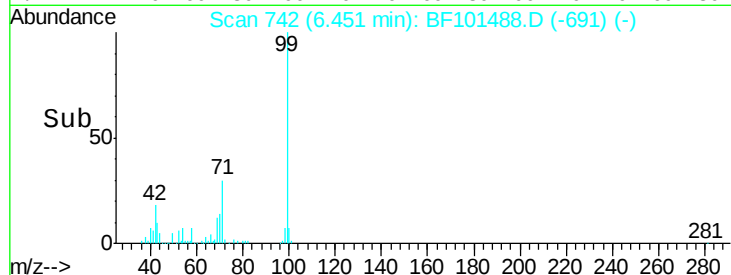
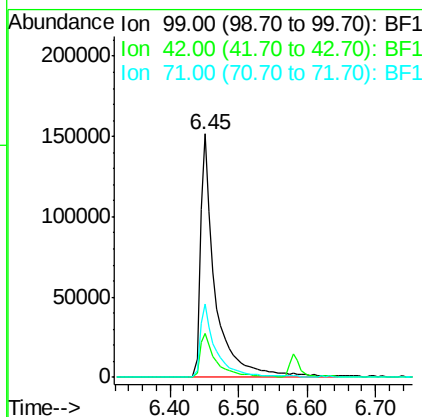
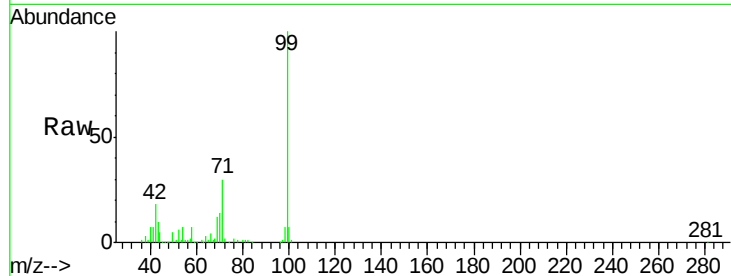
ClientSampleId :

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Tgt Ion:	99	Resp:	231416
Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.5	21.7
71	30.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

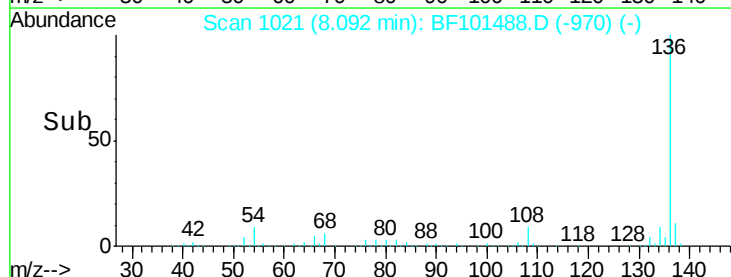
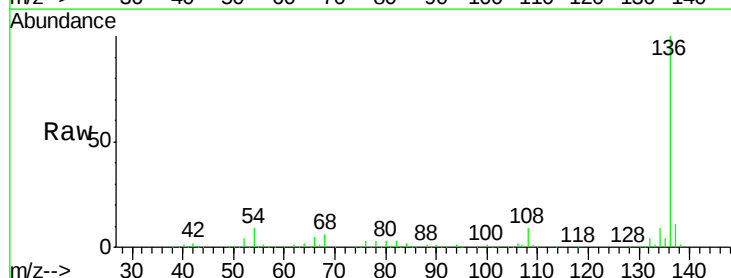
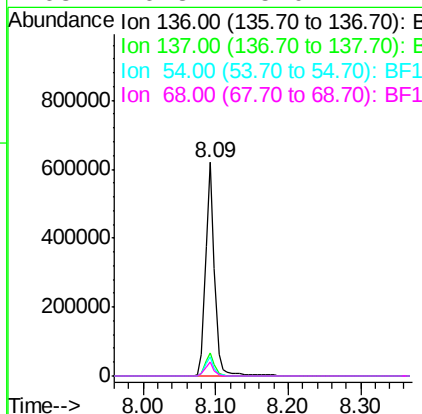
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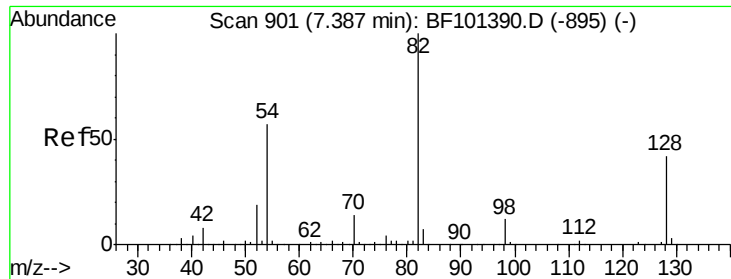
Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Tgt Ion:	136	Resp:	539090
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	8.7	6.6	9.8
68	6.3	5.0	7.4





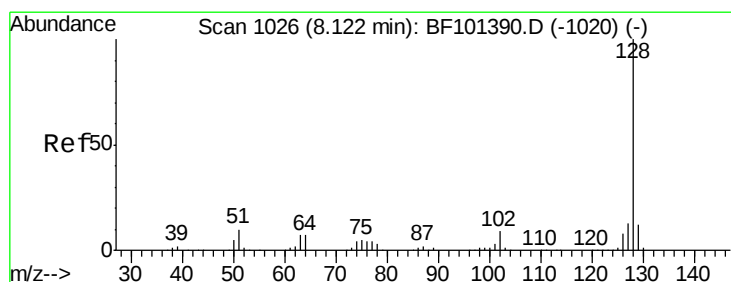
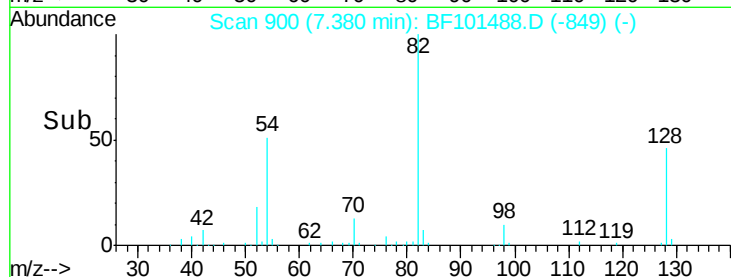
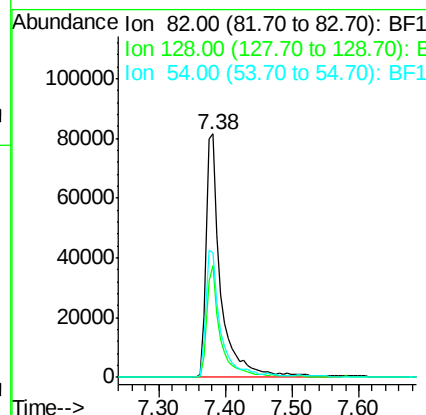
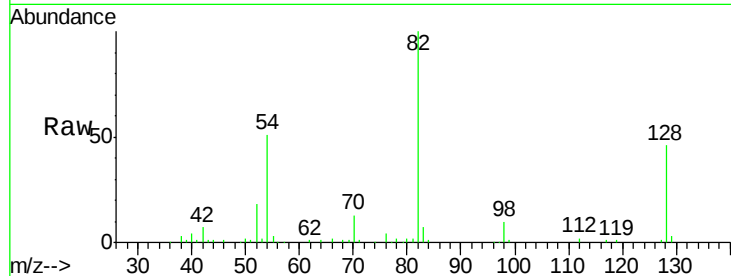
#23
Nitrobenzene-d5
Concen: 12.720 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.00 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-A

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	123188		
128	46.0	36.1	54.1	
54	51.4	41.4	62.2	

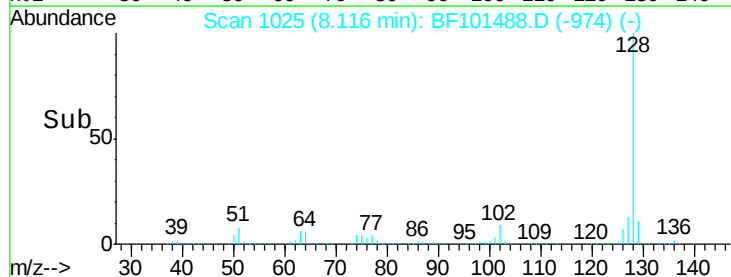
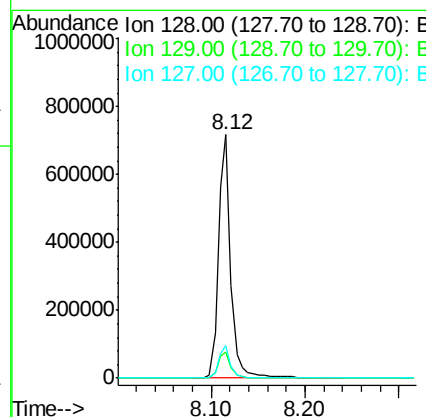
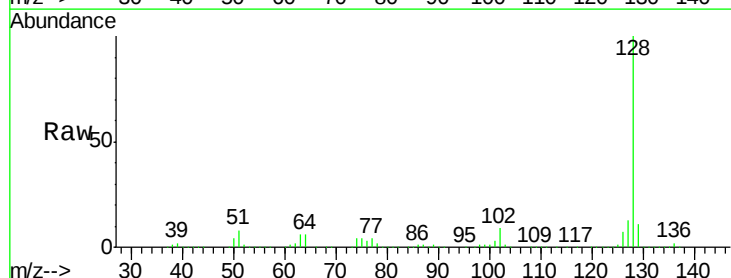
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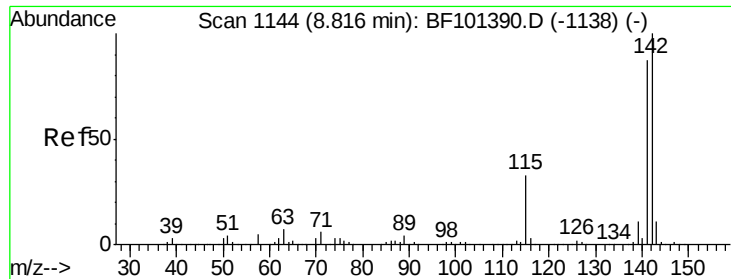
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#31
Naphthalene
Concen: 24.503 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	664995		
129	10.7	8.8	13.2	
127	13.4	10.9	16.3	





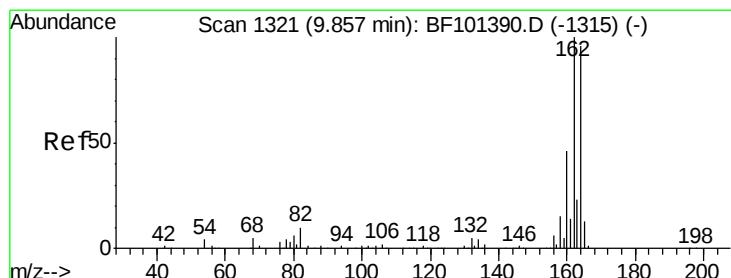
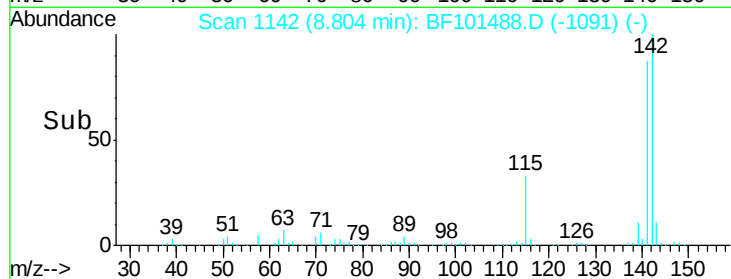
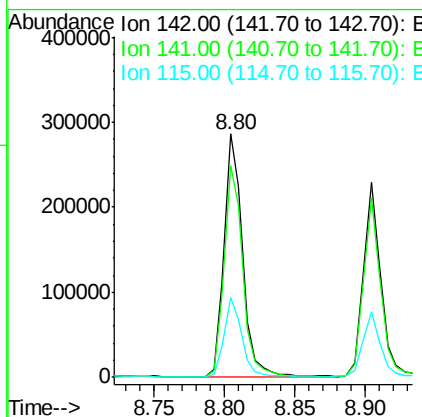
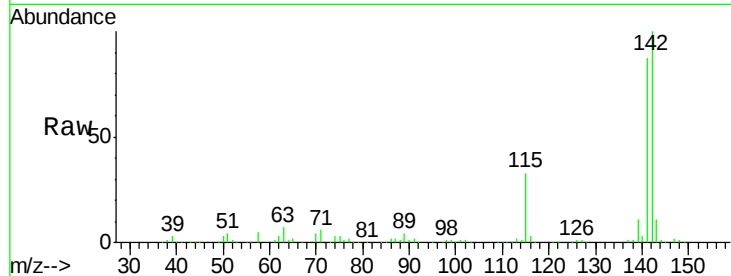
#37
 2-Methylnaphthalene
 Concen: 15.018 ng
 RT: 8.80 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	265544		
141	86.8	70.8	106.2	
115	32.8	26.1	39.1	

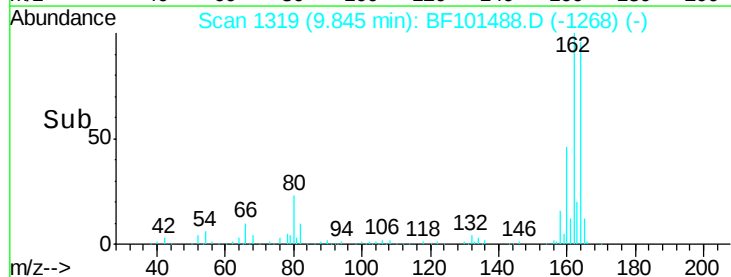
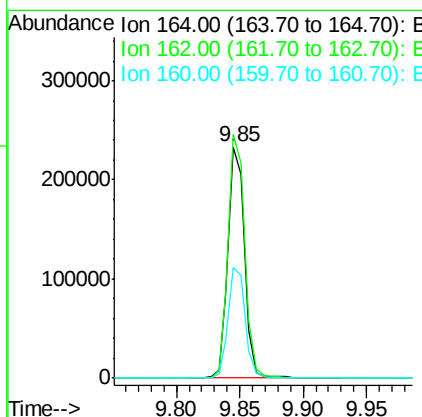
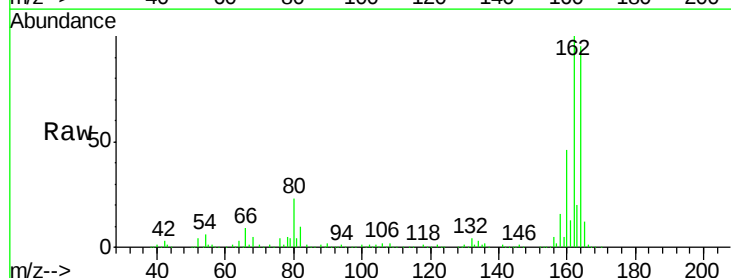
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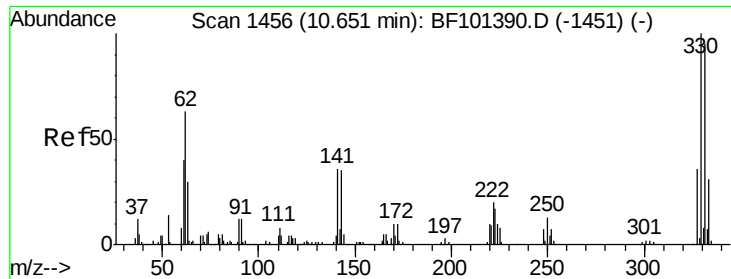
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	210352		
162	105.4	86.1	129.1	
160	48.0	38.3	57.5	





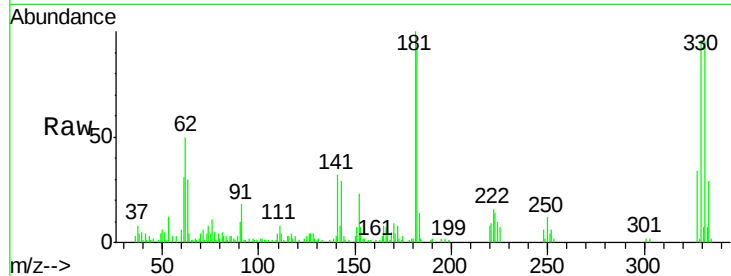
#41
 2,4,6-Tribromophenol
 Concen: 16.717 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

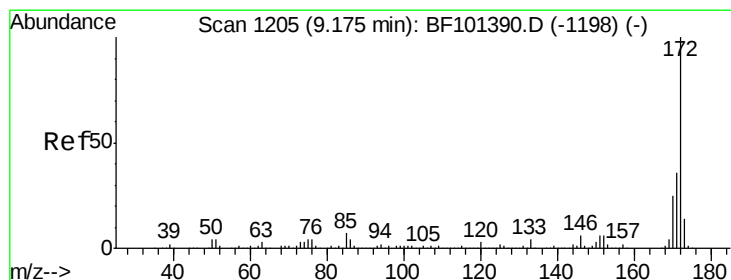
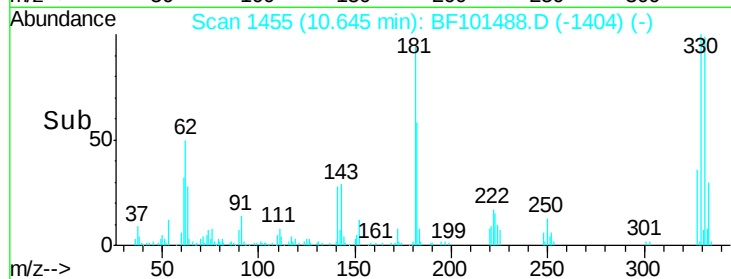
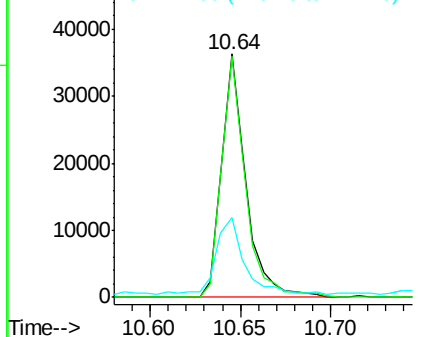
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	33883		
332	97.6	77.0	115.6	
141	37.6	29.9	44.9	

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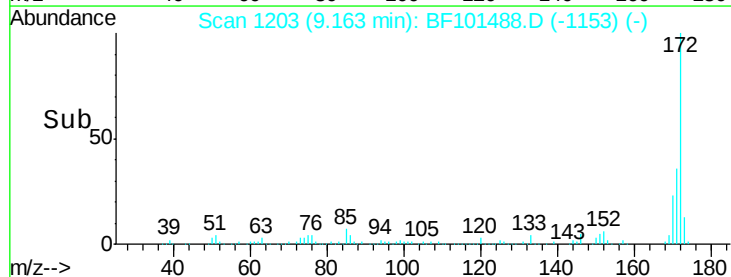
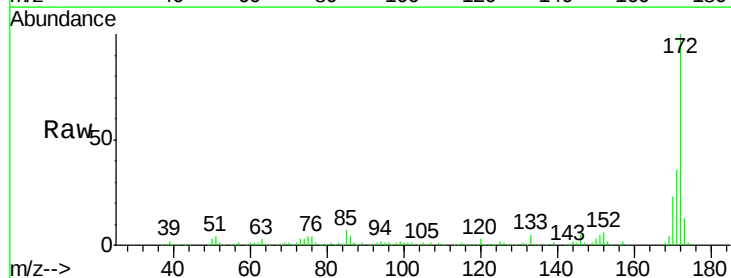
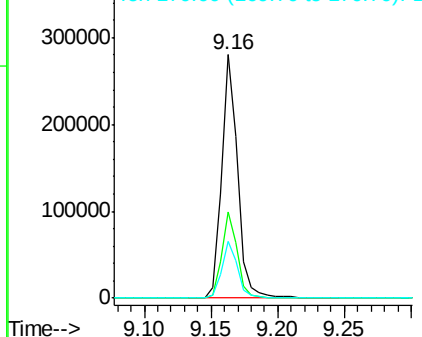
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

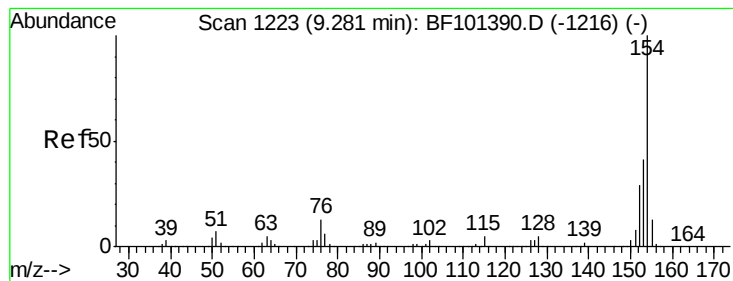


#44
 2-Fluorobiphenyl
 Concen: 17.485 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	237103		
171	35.6	29.7	44.5	
170	23.4	19.6	29.4	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 3.056 ng

RT: 9.27 min Scan# 1221

Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

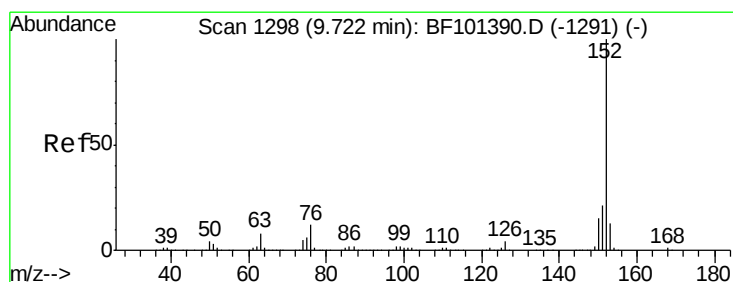
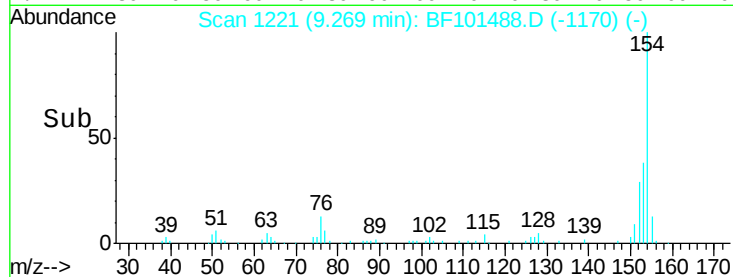
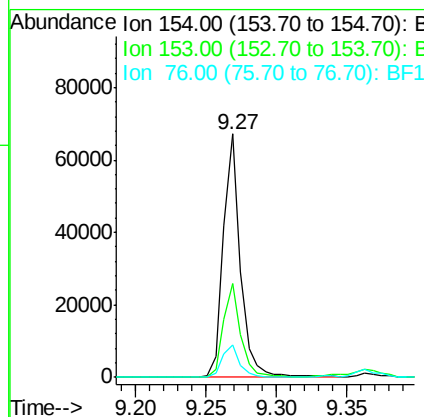
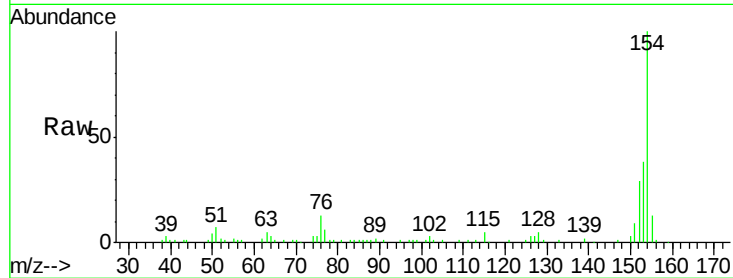
ClientSampleId :

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Tgt Ion:	154	Resp:	57013
Ion Ratio	Lower	Upper	
154	100		
153	38.3	21.3	61.3
76	13.4	0.0	34.0

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#48

Acenaphthylene

Concen: 6.239 ng

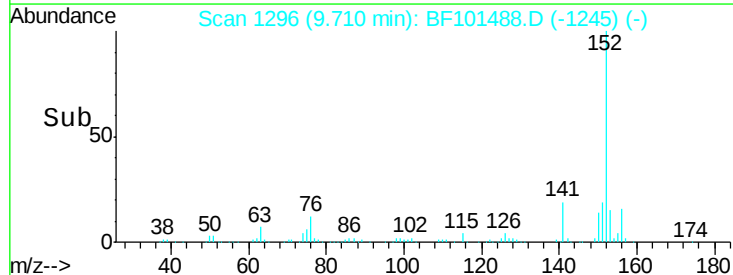
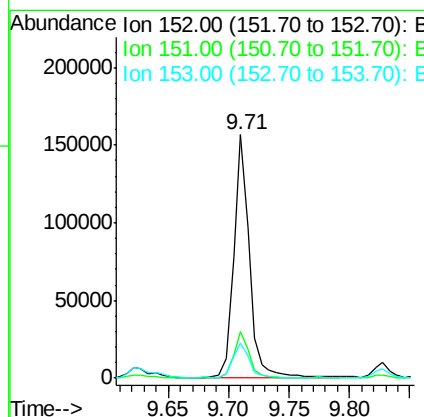
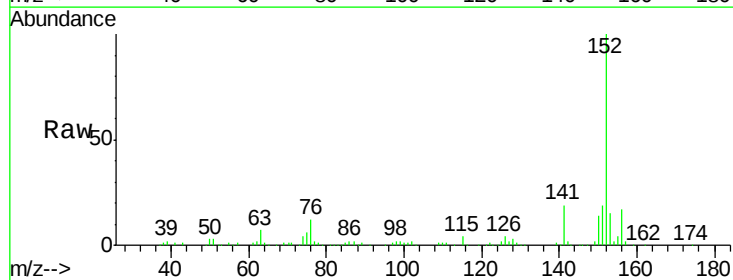
RT: 9.71 min Scan# 1296

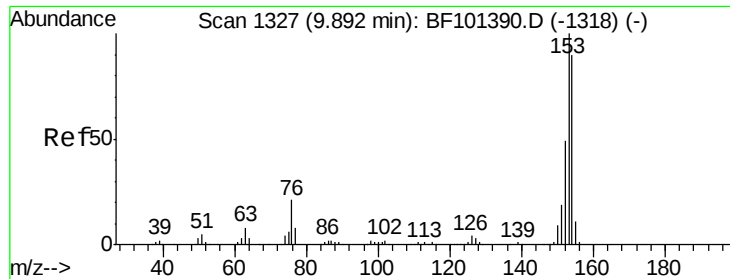
Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Tgt Ion:	152	Resp:	140670
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.3	24.5
153	14.6	10.7	16.1





#51

Acenaphthene

Concen: 11.180 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

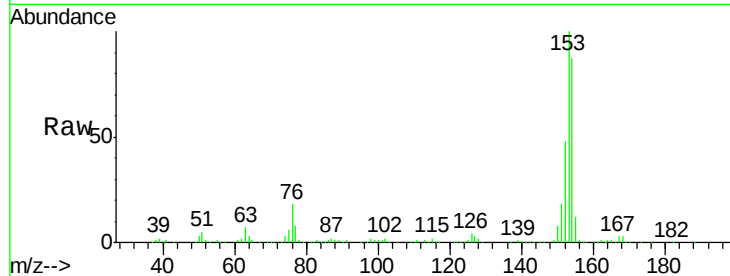
ClientSampleId :

OR-01-121517-A

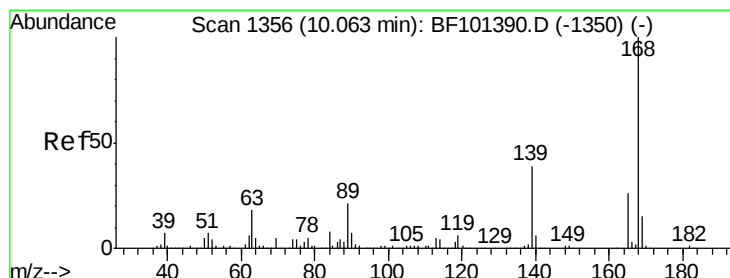
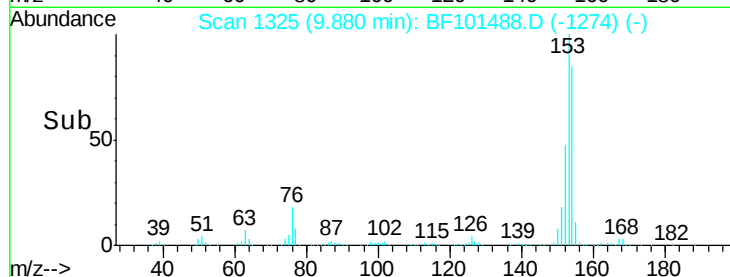
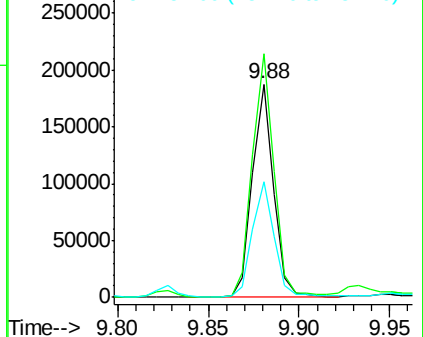
Tgt Ion:	154	Resp:	151437
Ion Ratio	Lower	Upper	
154	100		
153	114.3	91.2	136.8
152	54.4	43.8	65.8

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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: 11.272 ng

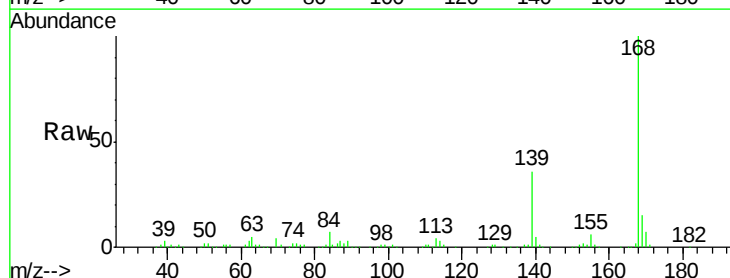
RT: 10.06 min Scan# 1355

Delta R.T. 0.01 min

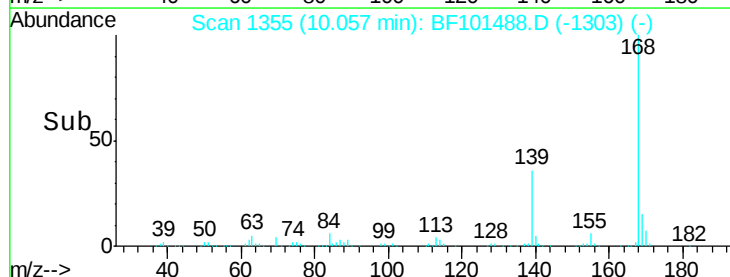
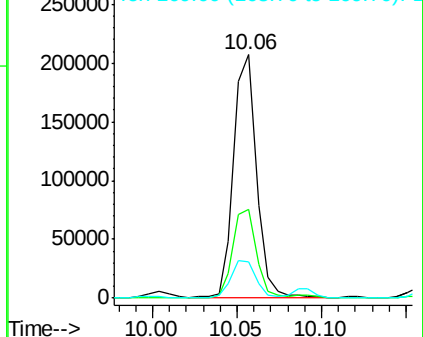
Lab File: BF101488.D

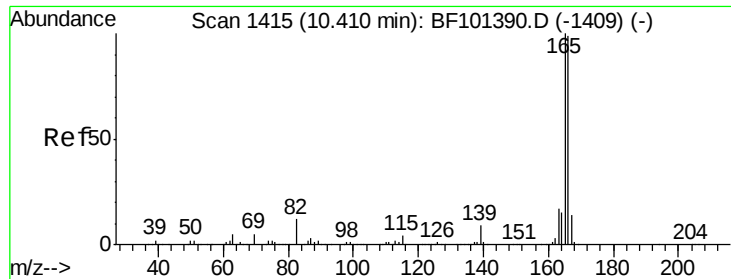
Acq: 18 Dec 2017 18:42

Tgt Ion:	168	Resp:	194034
Ion Ratio	Lower	Upper	
168	100		
139	36.4	30.1	45.1
169	15.1	10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





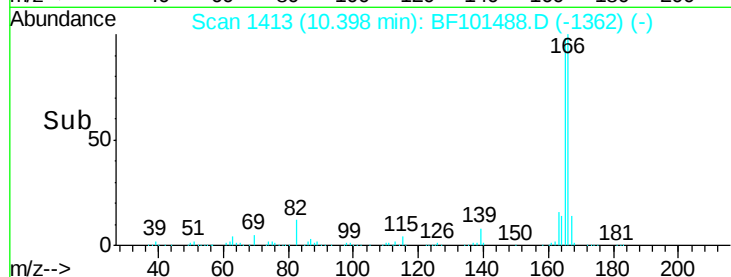
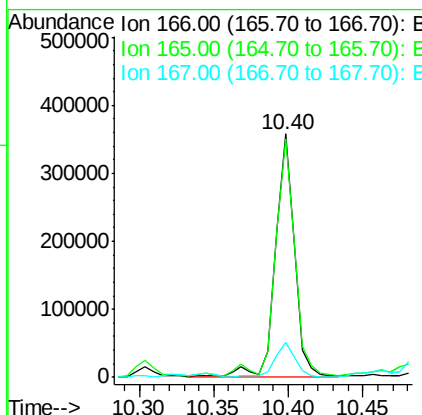
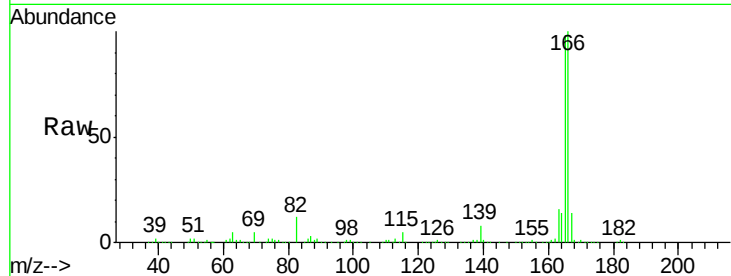
#57
Fluorene
 Concen: 21.645 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	315197		
165	97.8	79.8	119.8	
167	14.1	10.6	16.0	

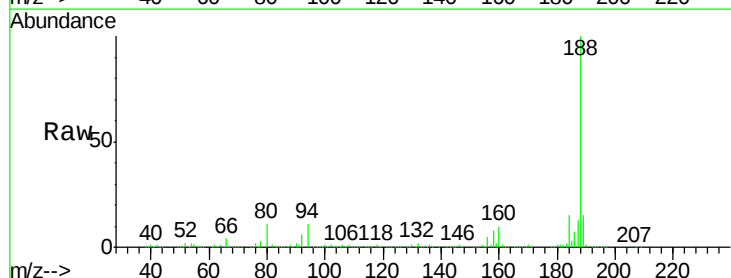
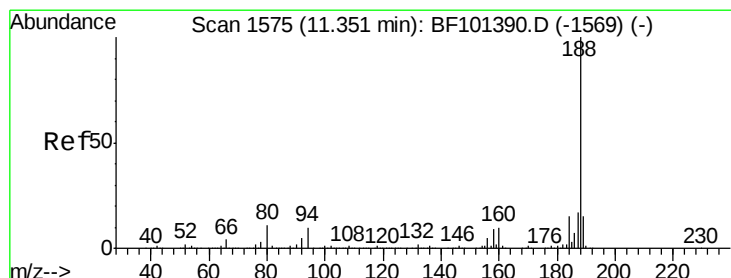
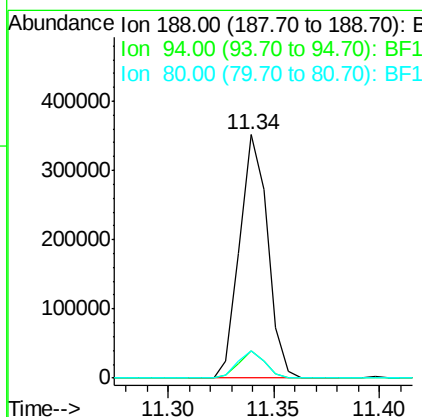
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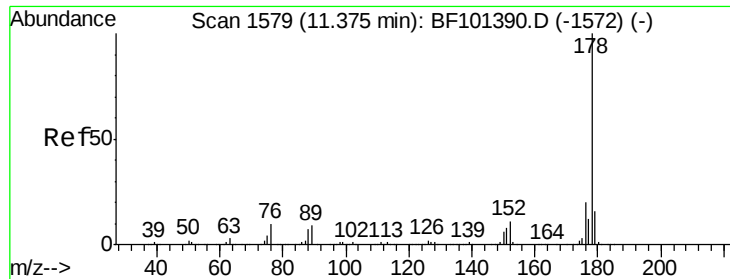
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	322894		
94	11.1	8.5	12.7	
80	11.5	9.2	13.8	





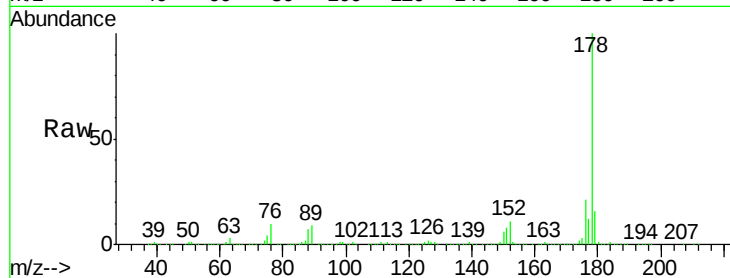
#70
Phenanthrene
Concen: 72.287 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-A

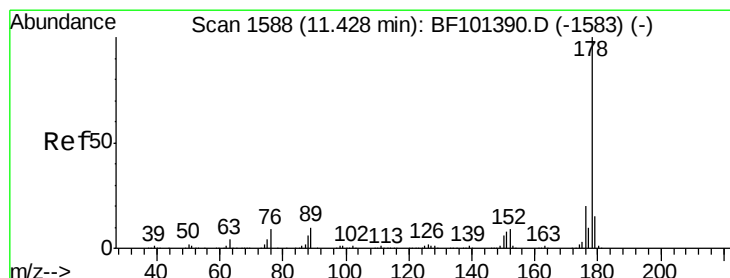
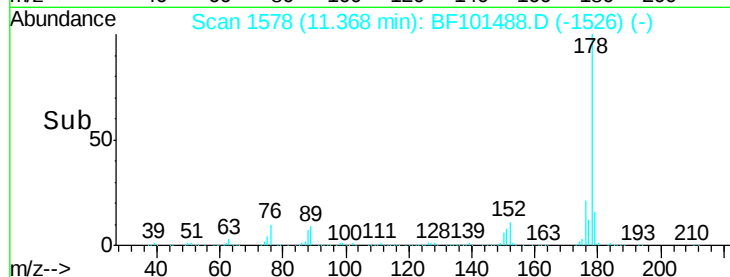
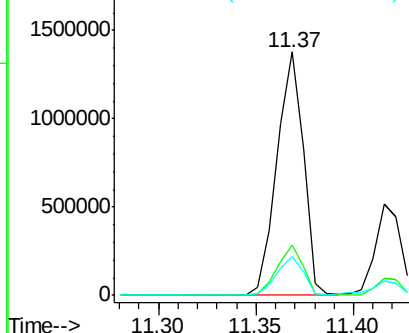
Tgt Ion:178 Resp: 1298035
Ion Ratio Lower Upper
178 100
176 20.8 15.8 23.8
179 15.9 13.0 19.6

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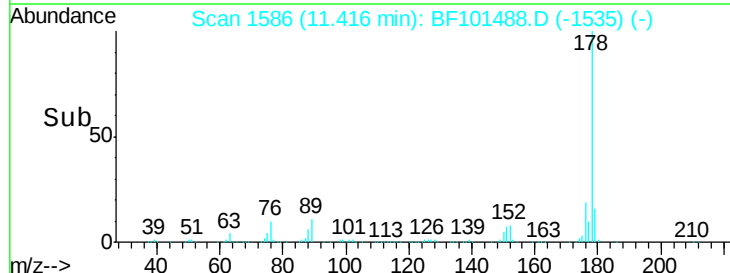
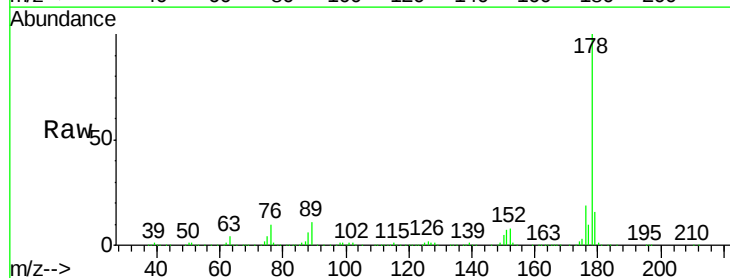
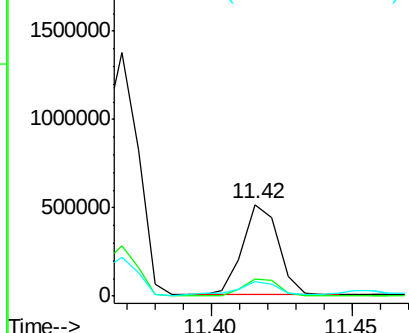
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

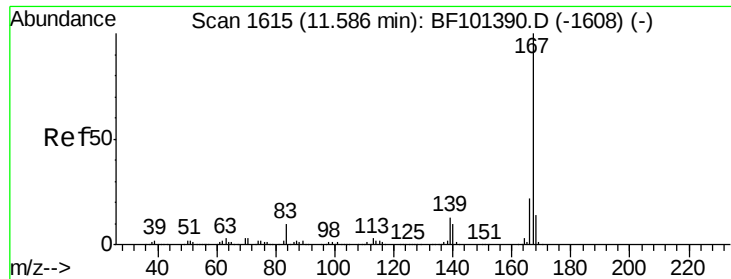


#71
Anthracene
Concen: 24.929 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.00 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Tgt Ion:178 Resp: 457255
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 16.0 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





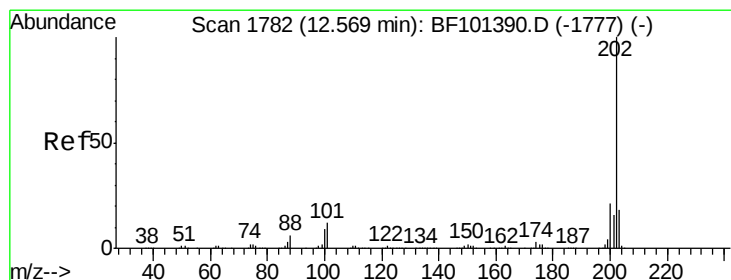
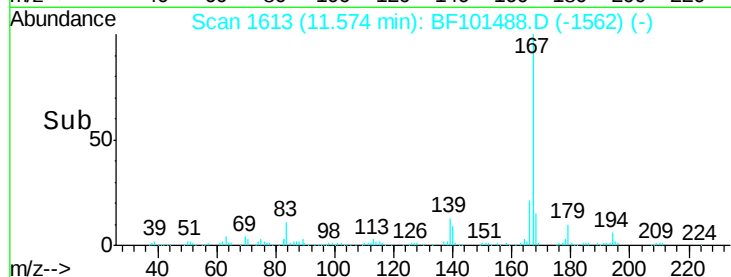
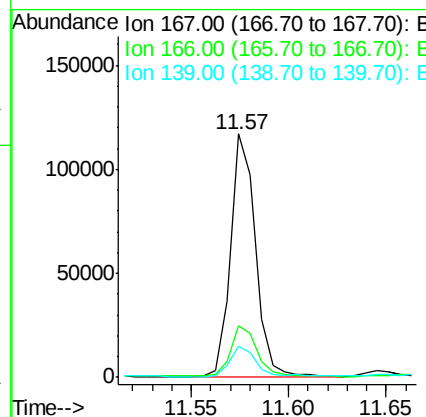
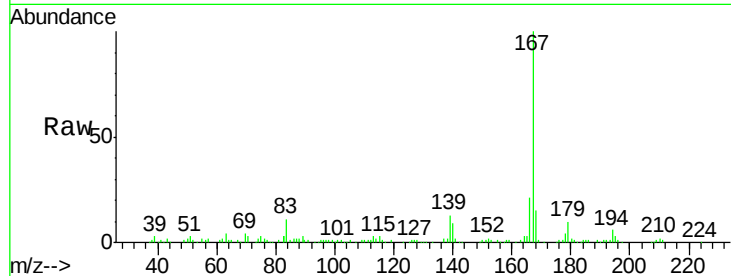
#72
 Carbazole
 Concen: 6.001 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.00 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-A

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.6	26.4
139	12.8	10.9	16.3

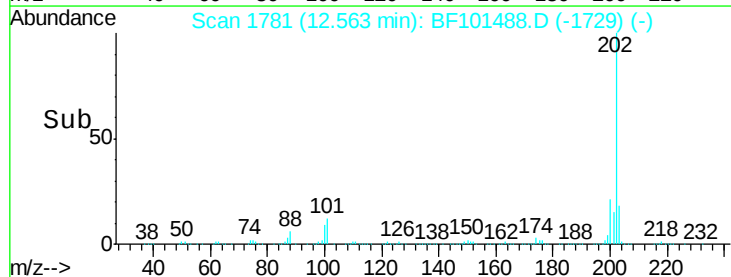
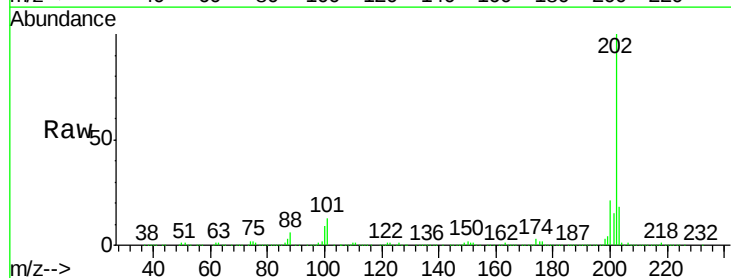
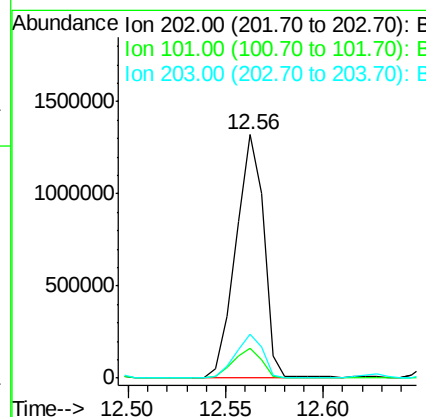
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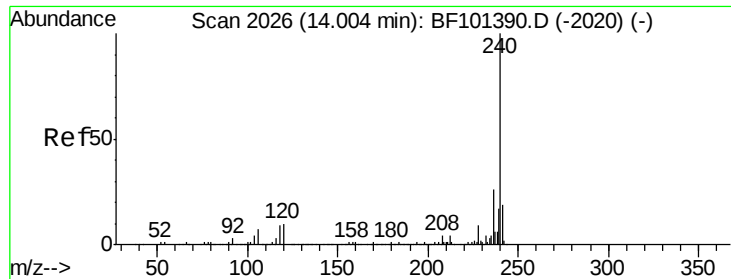
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#74
 Fluoranthene
 Concen: 69.514 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. 0.01 min
 Lab File: BF101488.D
 Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

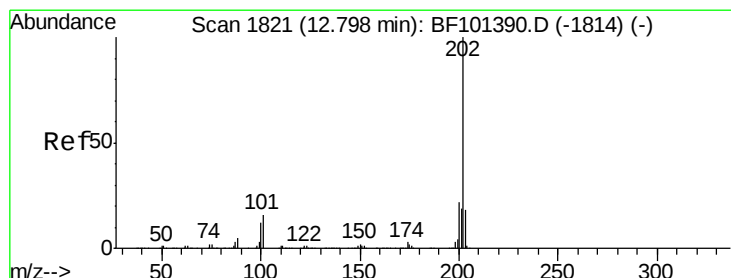
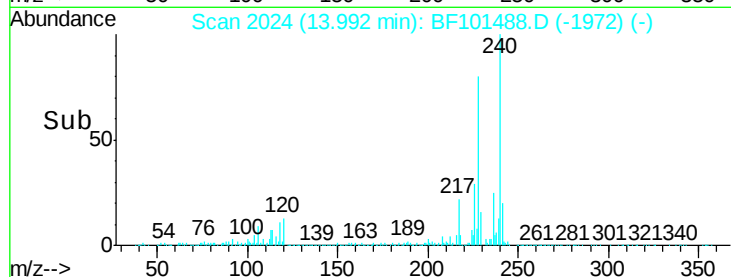
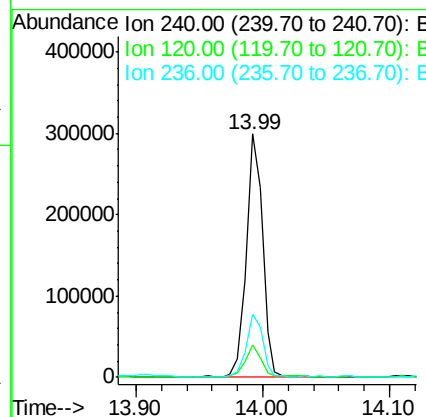
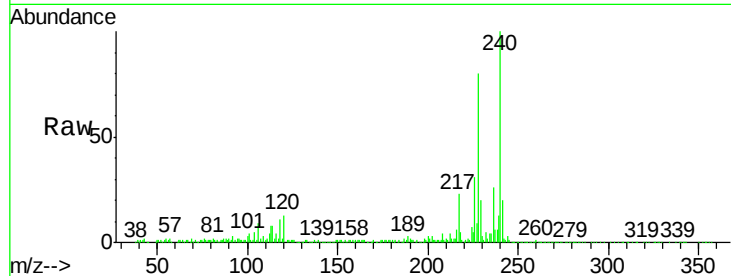
ClientSampleId :

OR-01-121517-A

Tgt Ion:	240	Resp:	262840
Ion Ratio	Lower	Upper	
240	100		
120	13.1	9.5	14.3
236	25.8	20.7	31.1

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#77

Pyrene

Concen: 64.304 ng

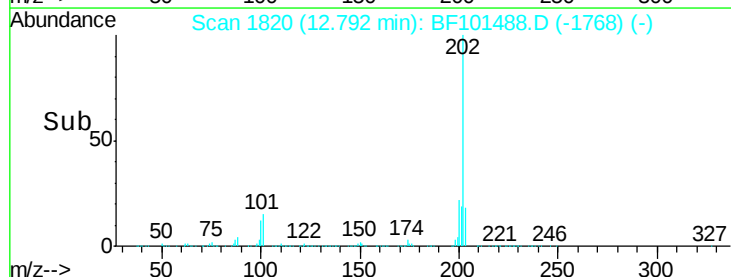
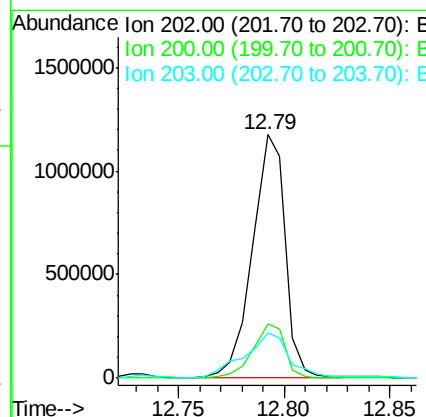
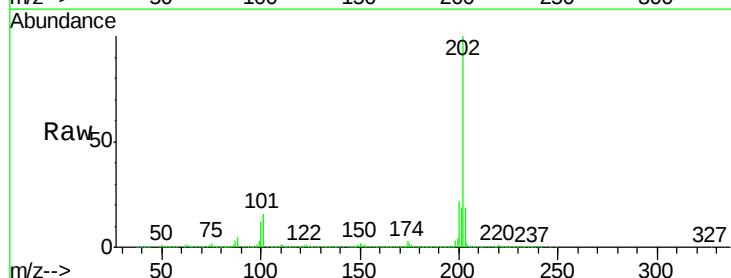
RT: 12.79 min Scan# 1820

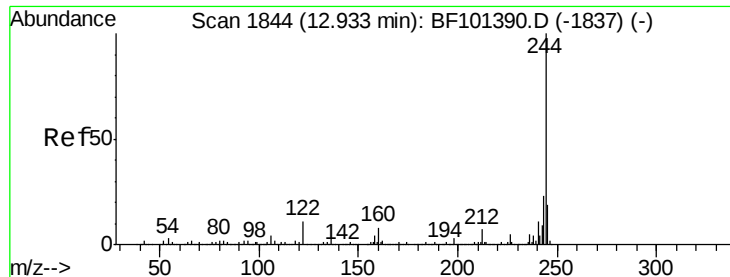
Delta R.T. 0.01 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Tgt Ion:	202	Resp:	1268473
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.4	26.2
203	18.6	14.3	21.5





#78

Terphenyl-d14

Concen: 14.251 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

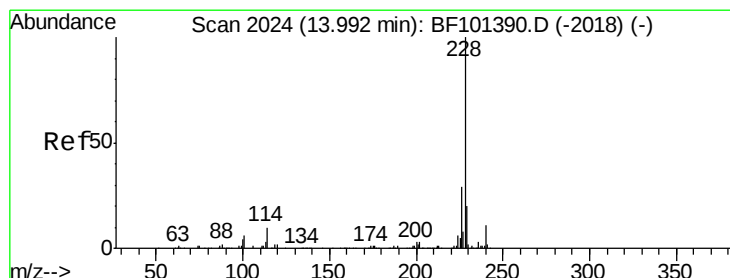
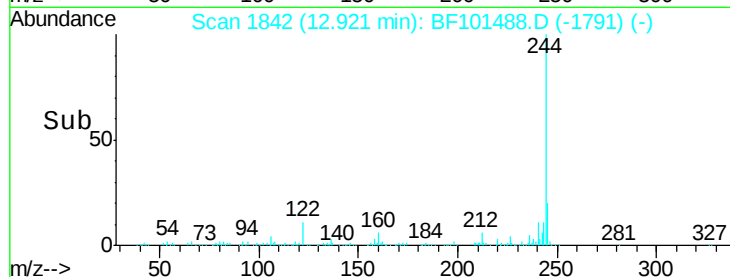
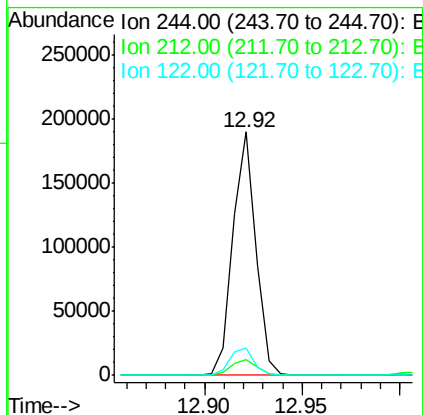
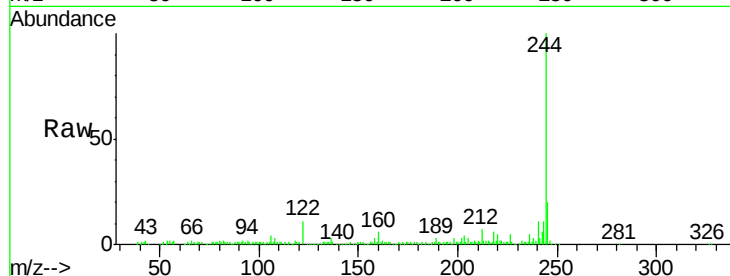
ClientSampleId :

OR-01-121517-A

Tgt Ion:	244	Resp:	155377
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.0
122	11.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 40.298 ng

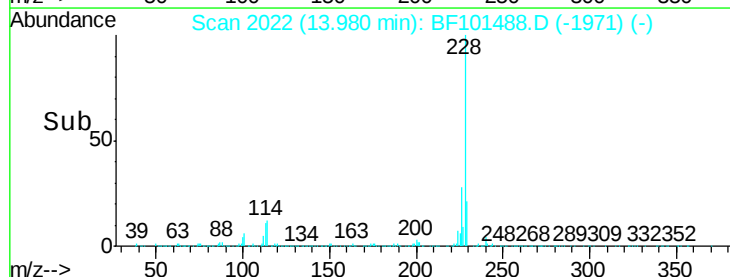
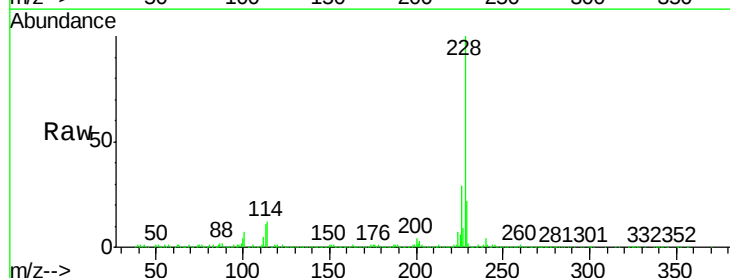
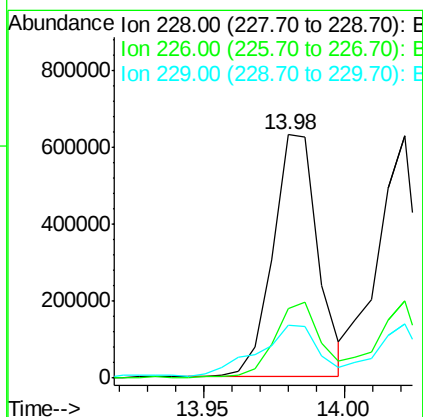
RT: 13.98 min Scan# 2022

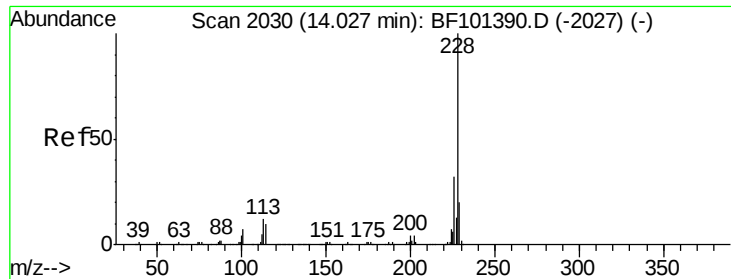
Delta R.T. -0.00 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Tgt Ion:	228	Resp:	699399
Ion Ratio	Lower	Upper	
228	100		
226	28.5	22.6	33.8
229	21.6	15.8	23.6





#82

Chrysene

Concen: 37.371 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Instrument :

BNA_F

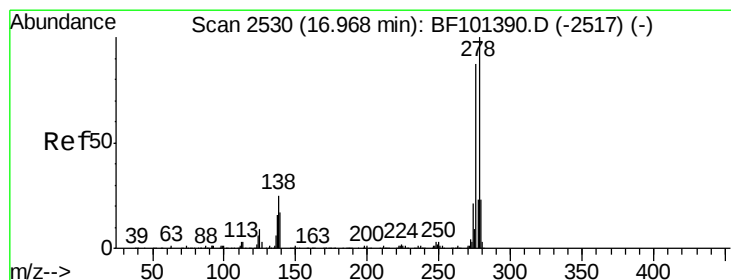
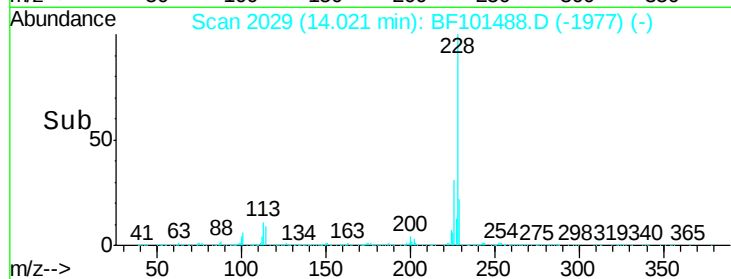
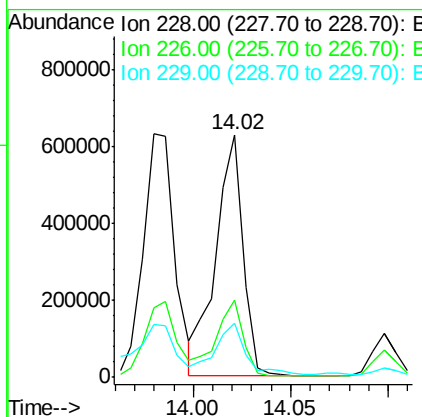
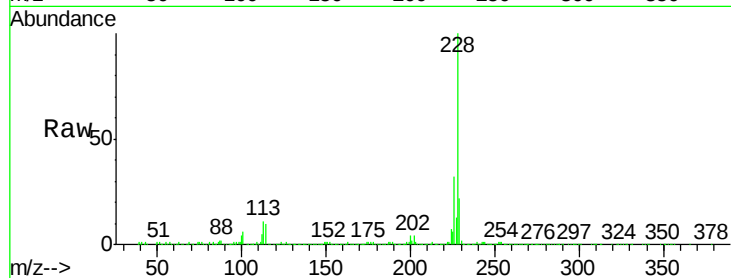
ClientSampleId :

OR-01-121517-A

Tgt Ion:	228	Resp:	612397
Ion Ratio	Lower	Upper	
228	100		
226	31.8	25.0	37.6
229	22.5	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 19.518 ng

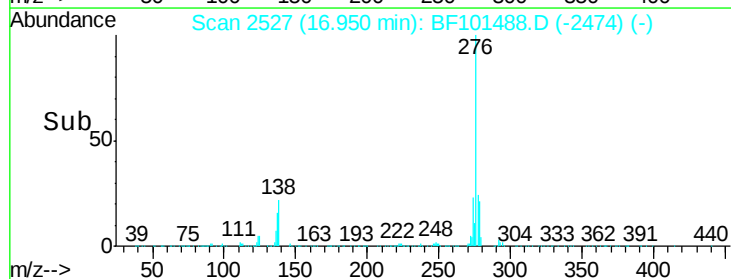
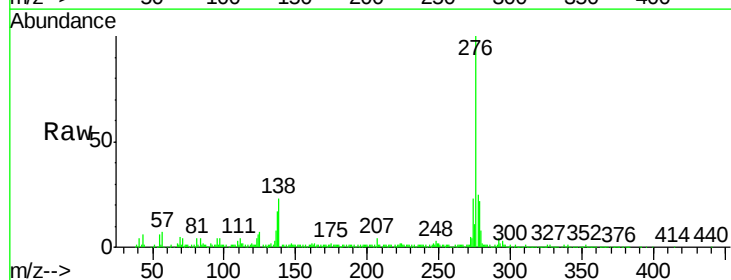
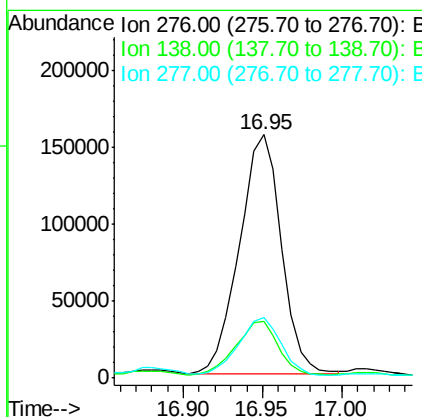
RT: 16.95 min Scan# 2527

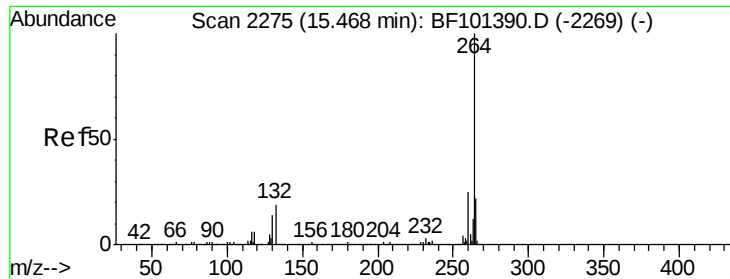
Delta R.T. 0.01 min

Lab File: BF101488.D

Acq: 18 Dec 2017 18:42

Tgt Ion:	276	Resp:	284811
Ion Ratio	Lower	Upper	
276	100		
138	23.2	25.0	37.6#
277	24.6	20.1	30.1





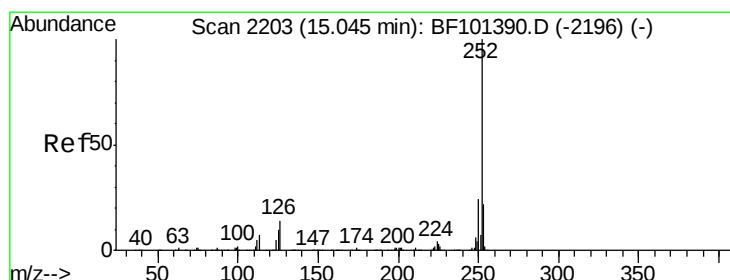
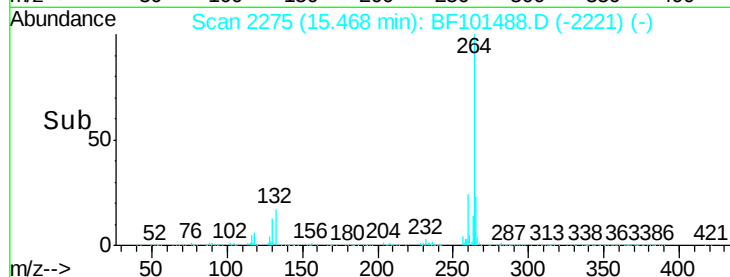
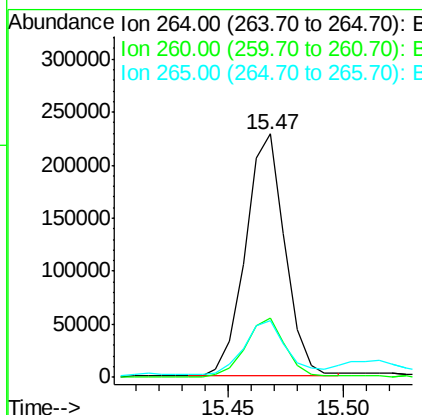
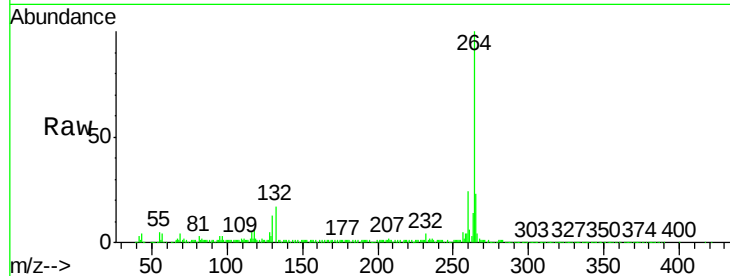
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.02 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-A

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	23.2	17.5	26.3

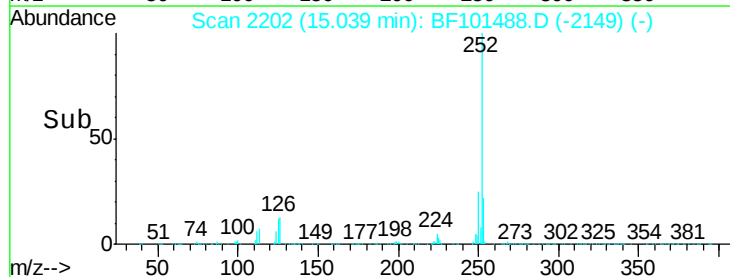
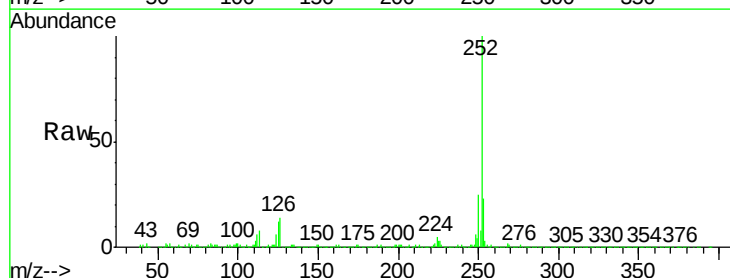
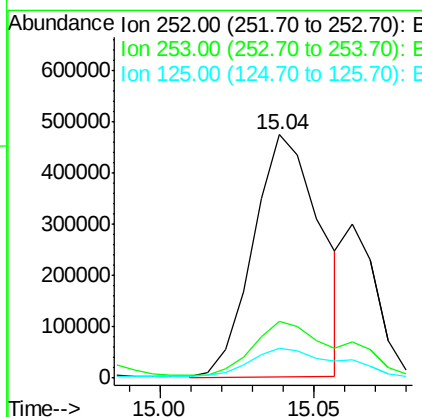
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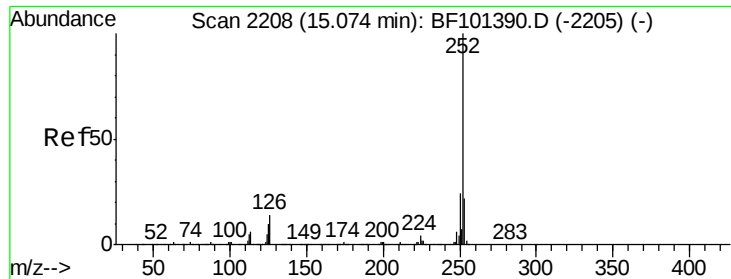
Sohil
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#87
Benzo(b)fluoranthene
Concen: 43.288 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	12.2	9.0	13.6





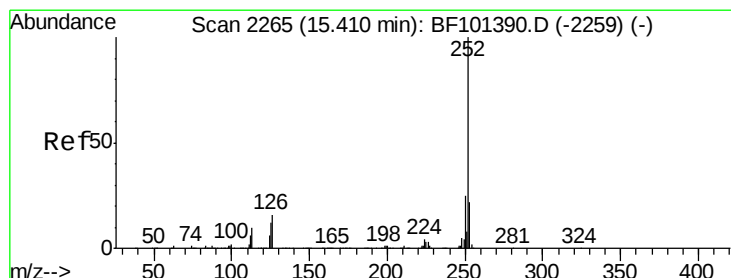
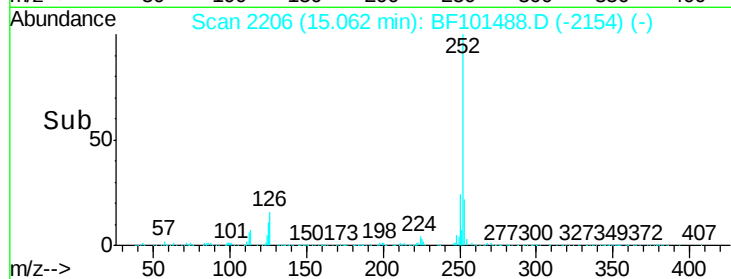
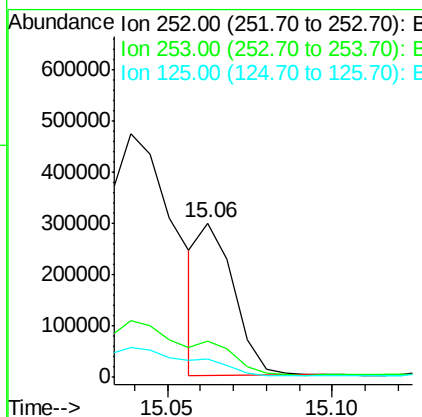
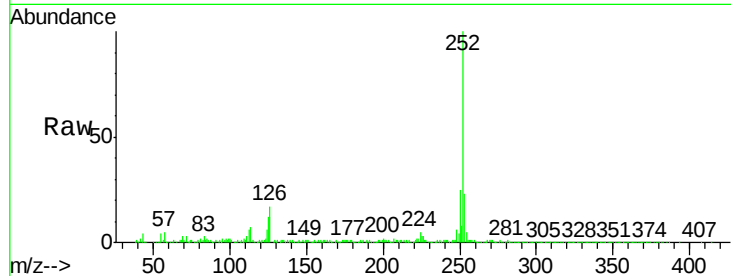
#88
Benzo(k)fluoranthene
Concen: 13.342 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	12.0	10.2	15.2

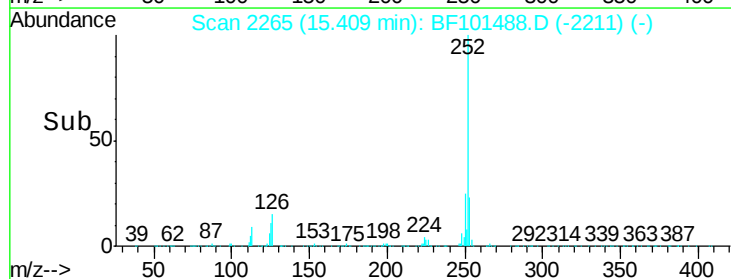
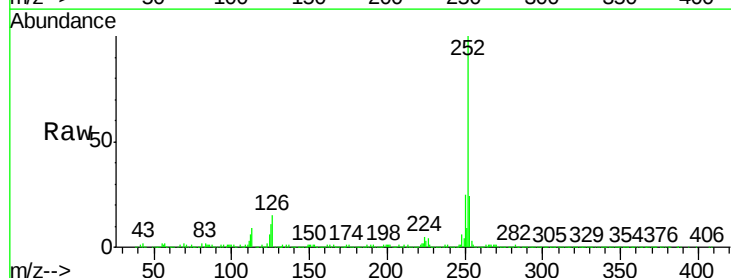
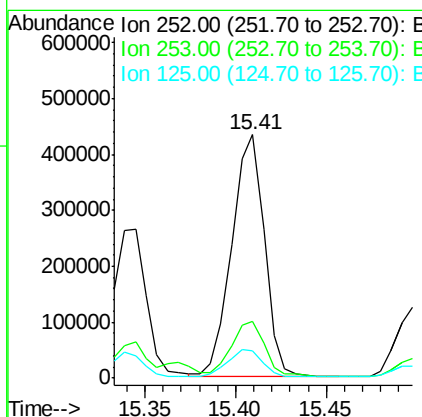
Manual Integrations
APPROVED

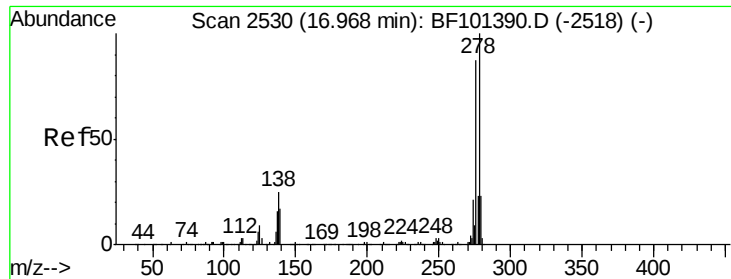
Sohil
12/19/2017 4:49:55 PM



#89
Benzo(a)pyrene
Concen: 35.736 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	11.5	9.8	14.6





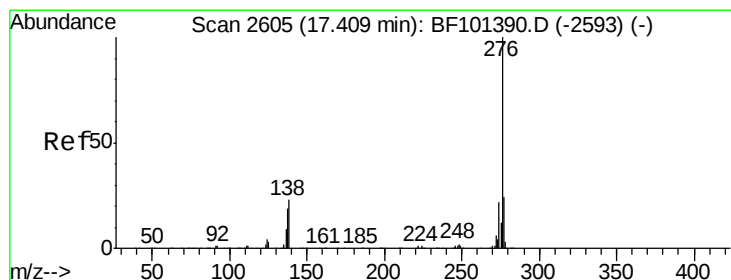
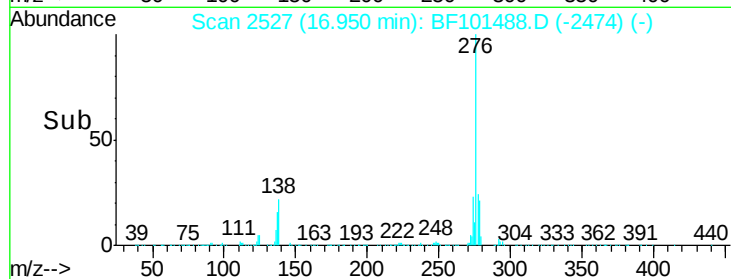
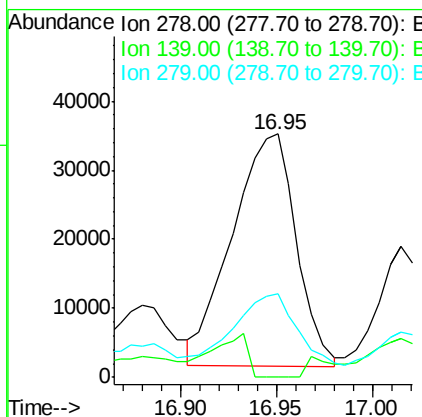
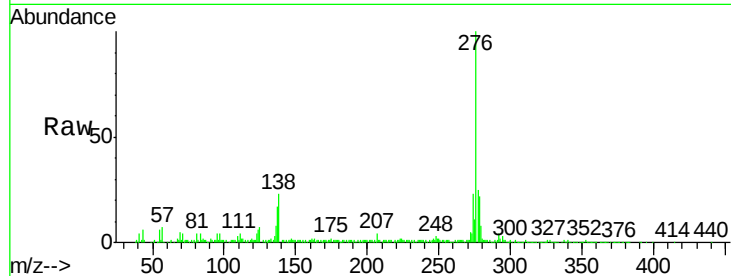
#90
Dibenzo(a,h)anthracene
Concen: 5.966 ng m
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-A

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	34.5	19.0	28.4#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 21.094 ng
RT: 17.40 min Scan# 2604
Delta R.T. 0.02 min
Lab File: BF101488.D
Acq: 18 Dec 2017 18:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	17.9	26.9
138	24.0	21.8	32.8

