

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104826.D
 Acq On : 26 Apr 2018 9:14
 Operator : JU/SJ
 Sample : J2497-05DL 20X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Manual Integrations
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Quant Time: Apr 26 14:28:22 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	111598	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	460447	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	201037	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	298189	20.00	ng	0.00
75) Chrysene-d12	13.98	240	219647	20.00	ng	0.00
86) Perylene-d12	15.44	264	183403	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	5480	0.75	ng	0.00
7) Phenol-d6	6.45	99	7466	0.83	ng	0.00
23) Nitrobenzene-d5	7.37	82	4655	0.66	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	1246	0.60	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	11112	0.87	ng	0.00
78) Terphenyl-d14	12.91	244	8529	0.89	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.10	128	887526	38.710	ng	99
37) 2-Methylnaphthalene	8.80	142	167375	11.286	ng	99
45) 1,1'-Biphenyl	9.26	154	50668	3.000	ng	96
48) Acenaphthylene	9.70	152	183190	8.753	ng	99
51) Acenaphthene	9.87	154	165305	12.945	ng	99
54) Dibenzofuran	10.05	168	172596	9.698	ng	100
57) Fluorene	10.39	166	256182	19.777	ng	98
70) Phenanthrene	11.36	178	948639	57.126	ng	99
71) Anthracene	11.40	178	325432	19.279	ng	99
72) Carbazole	11.56	167	75304	4.565	ng	98
74) Fluoranthene	12.55	202	831965	47.952	ng	97
77) Pyrene	12.78	202	793390	48.731	ng	99
80) Benzo(a)anthracene	13.97	228	437742m	33.360	ng	
82) Chrysene	14.00	228	349483	25.929	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	140949	12.310	ng	# 92
87) Benzo(b)fluoranthene	15.02	252	411845m	35.555	ng	
88) Benzo(k)fluoranthene	15.04	252	129311m	11.825	ng	
89) Benzo(a)pyrene	15.39	252	308630	29.778	ng	98
90) Dibenzo(a,h)anthracene	16.91	278	39557m	4.647	ng	
91) Benzo(a,h,i)perylene	17.34	276	134898	16.357	ng	98

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

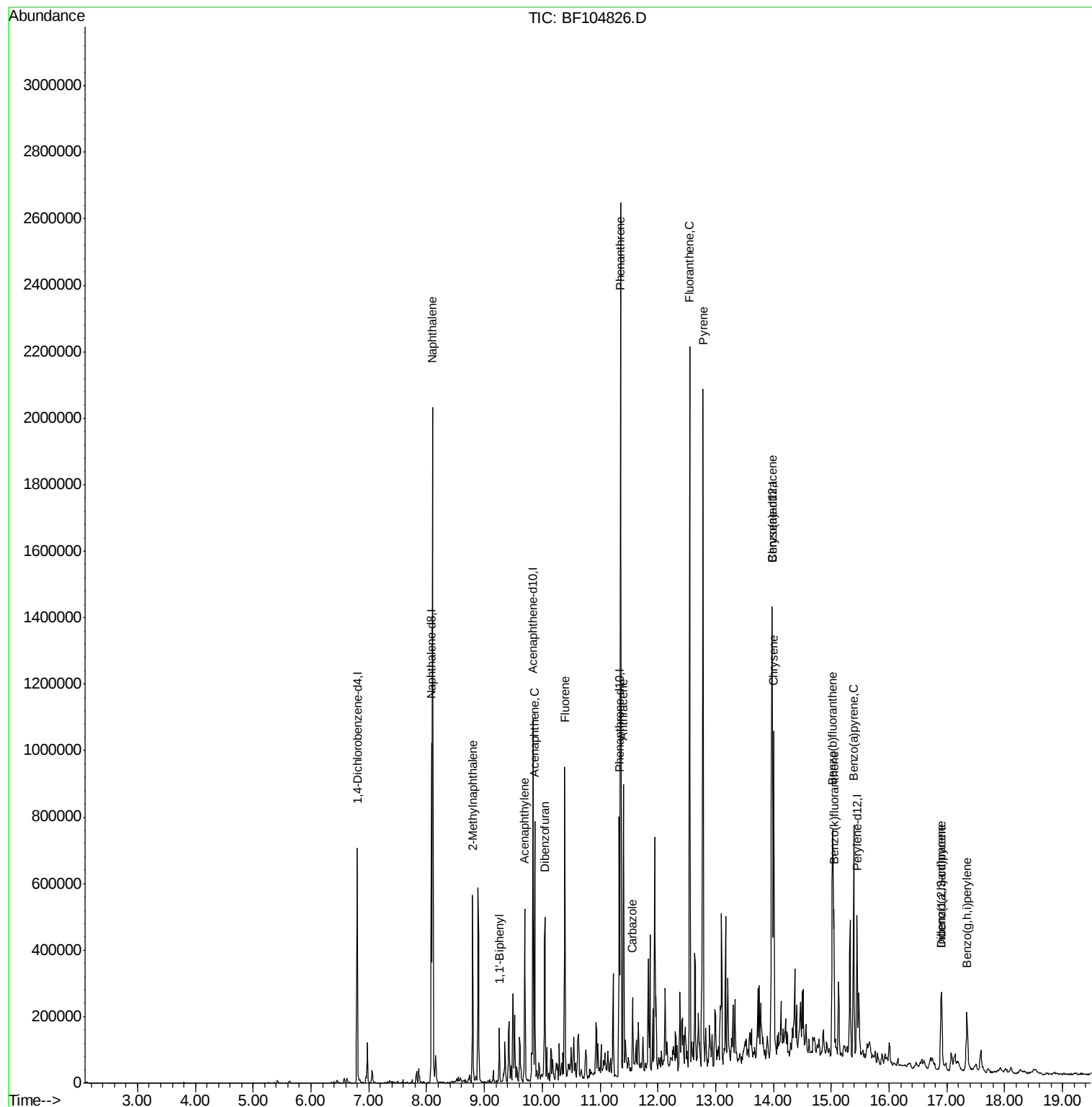
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
Data File : BF104826.D
Acq On : 26 Apr 2018 9:14
Operator : JU/SJ
Sample : J2497-05DL 20X
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ALS Vial : 45 Sample Multiplier: 1

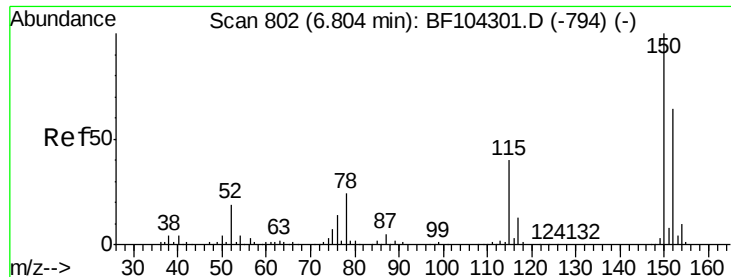
Instrument :
BNA_F
ClientSampled :
A2-SB01-N-3DL

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#1

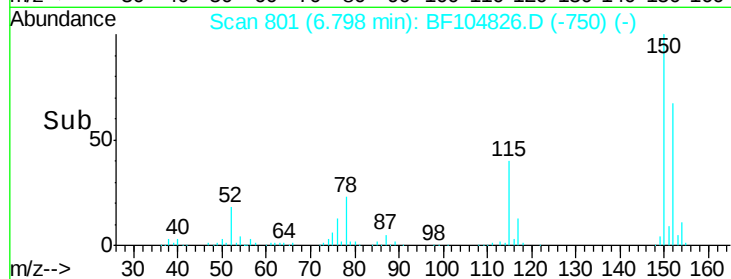
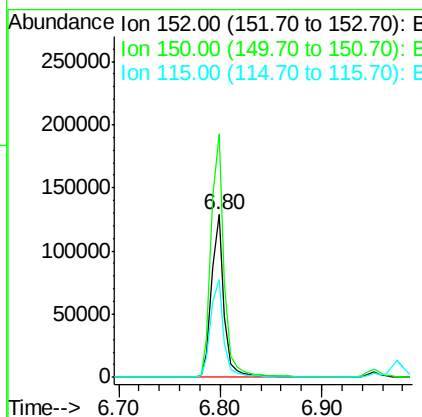
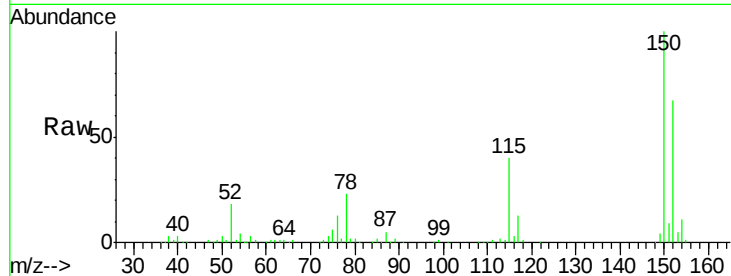
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.6	186.8
115	60.2	50.1	75.1

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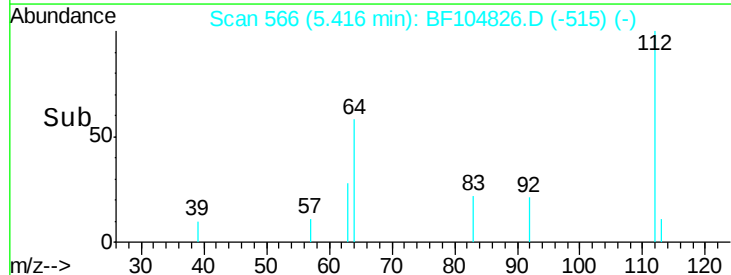
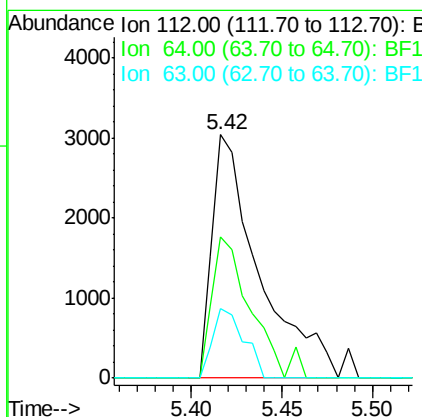
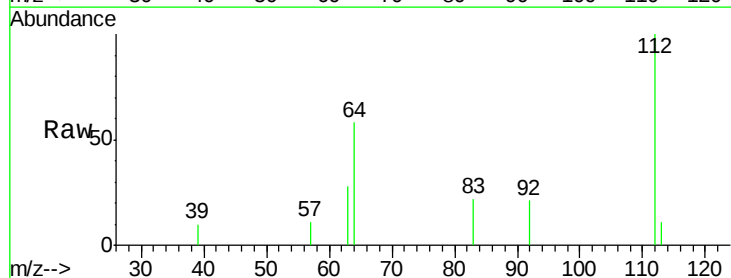
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#5

2-Fluorophenol
Concen: 0.751 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.9	71.9
63	28.3	23.7	35.5





#7

Phenol-d6

Concen: 0.833 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Instrument :

BNA_F

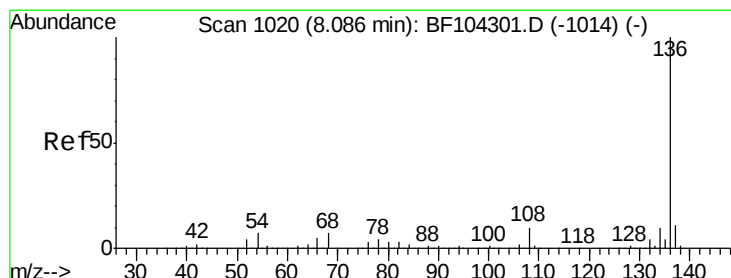
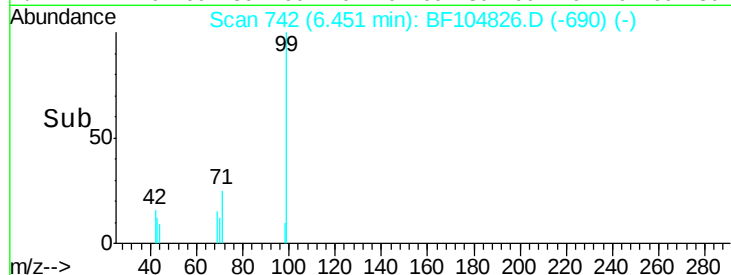
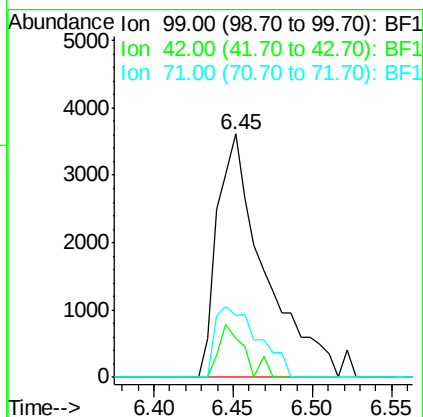
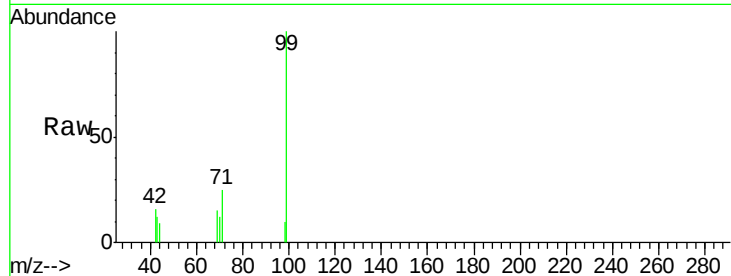
ClientSampleId :

A2-SB01-N-3DL

Tot Ion:	99	Resp:	7466
Ion	Ratio	Lower	Upper
99	100		
42	16.0	14.5	21.7
71	25.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

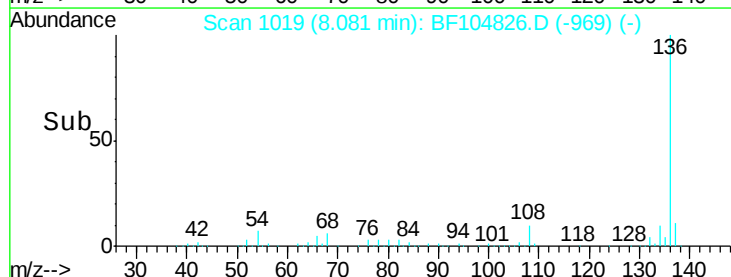
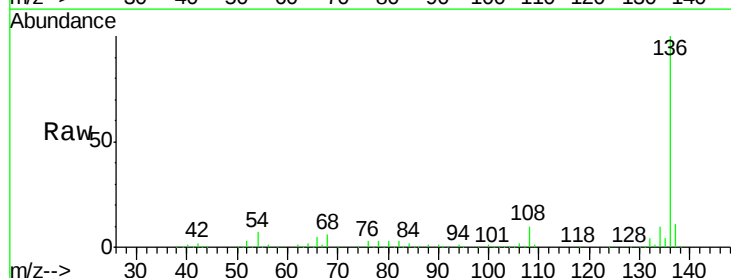
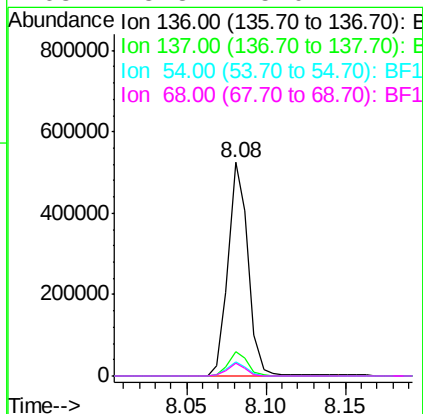
RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Tgt Ion:	136	Resp:	460447
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	6.7	6.6	9.8
68	5.8	5.0	7.4





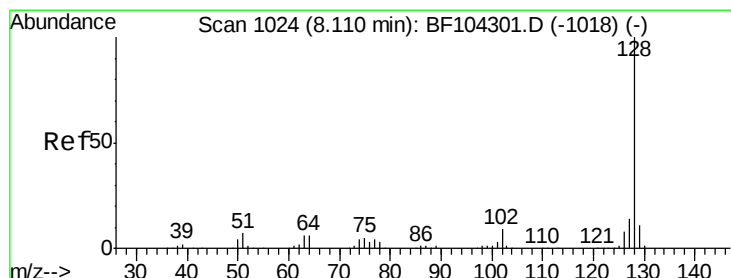
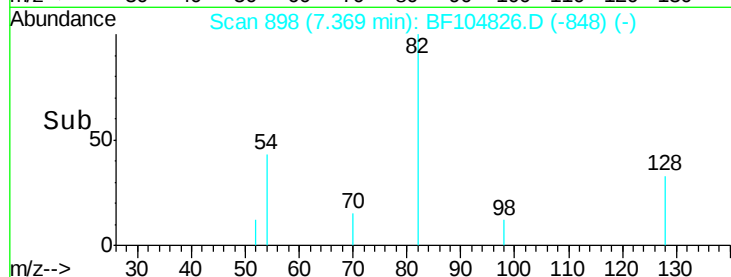
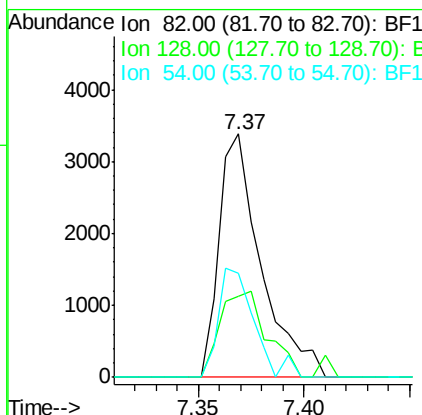
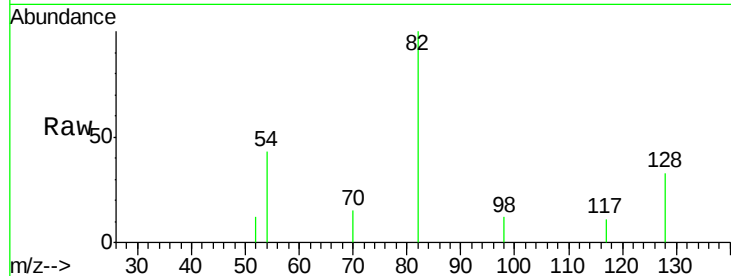
#23
 Nitrobenzene-d5
 Concen: 0.660 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.2	36.1	54.1#
54	42.6	41.4	62.2

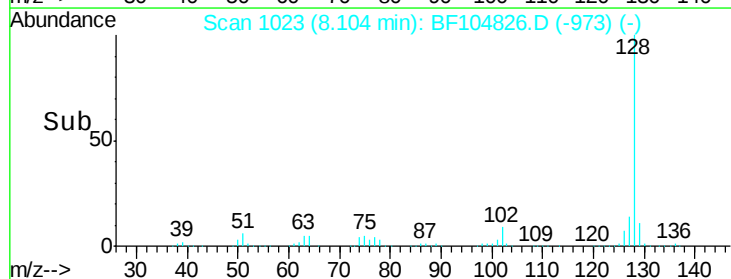
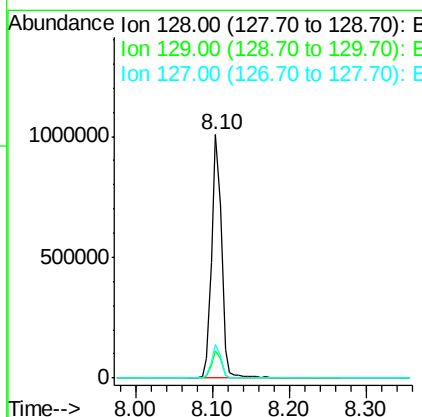
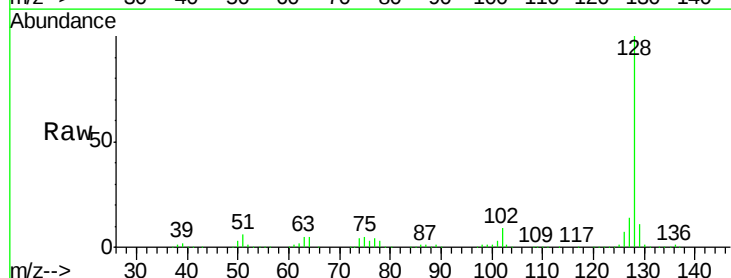
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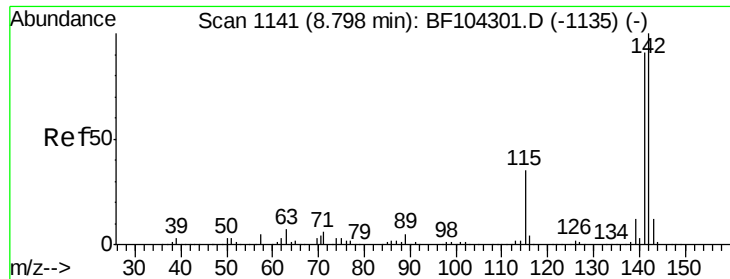
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#31
 Naphthalene
 Concen: 38.710 ng
 RT: 8.10 min Scan# 1023
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.8	10.9	16.3





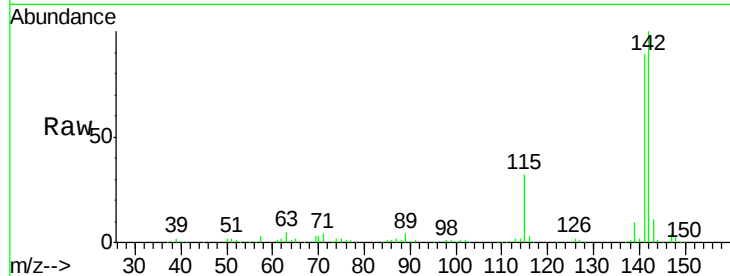
#37
2-Methylnaphthalene
Concen: 11.286 ng
RT: 8.80 min Scan# 1141
Delta R.T. 0.00 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3DL

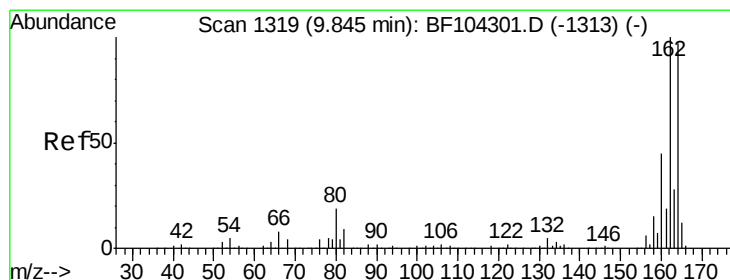
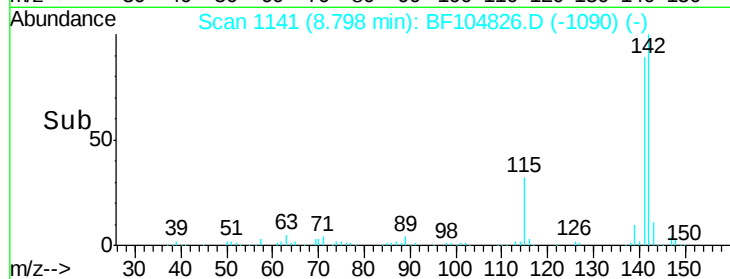
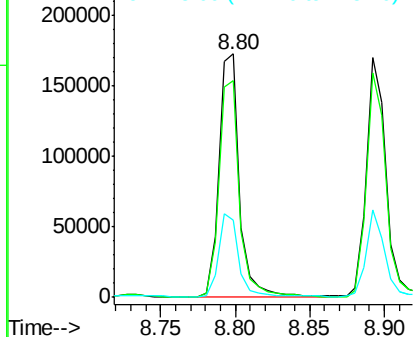
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	31.5	26.1	39.1

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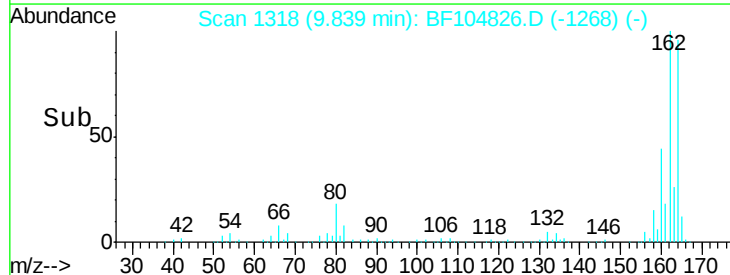
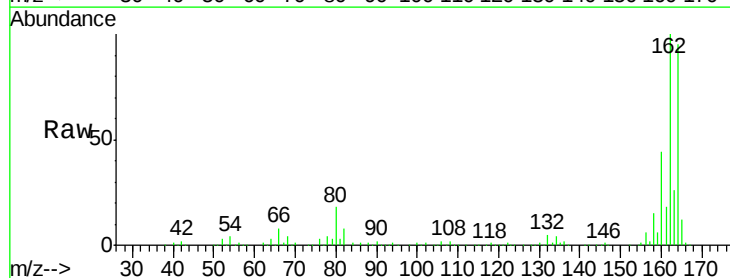
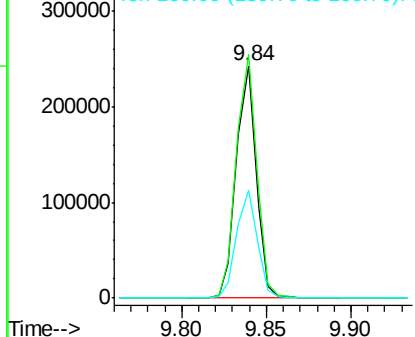
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	86.1	129.1
160	46.2	38.3	57.5

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





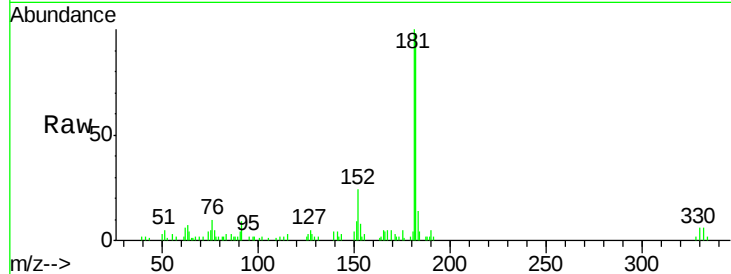
#41
 2,4,6-Tribromophenol
 Concen: 0.597 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	104.2	77.0	115.6
141	80.3	29.9	44.9

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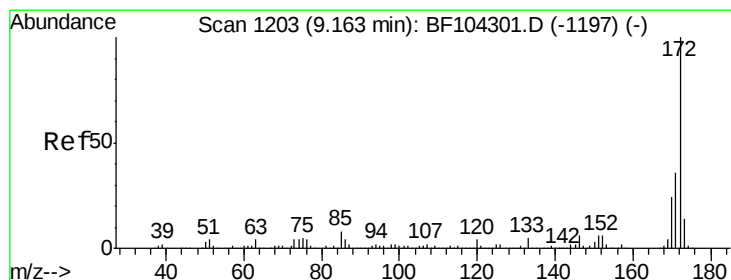
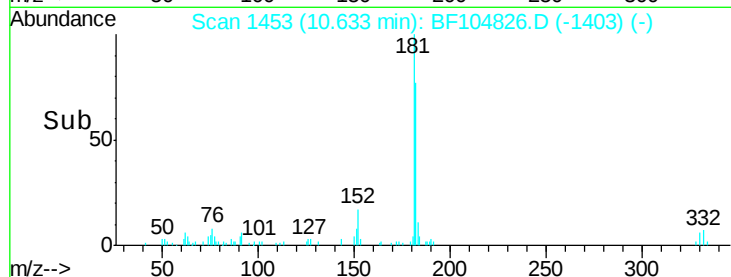
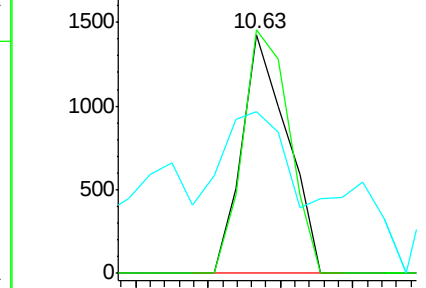


Abundance

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: 0.873 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

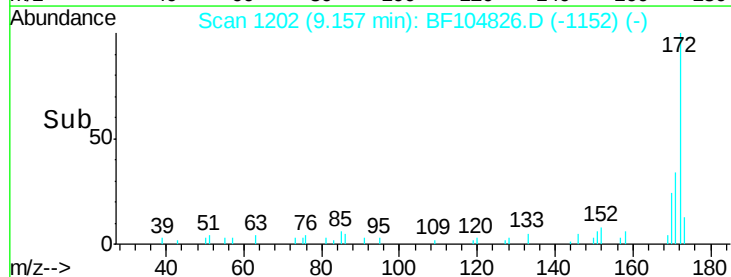
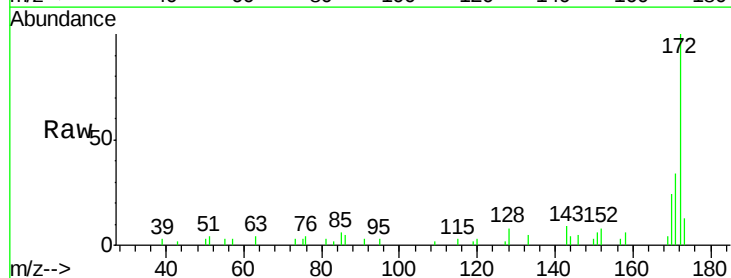
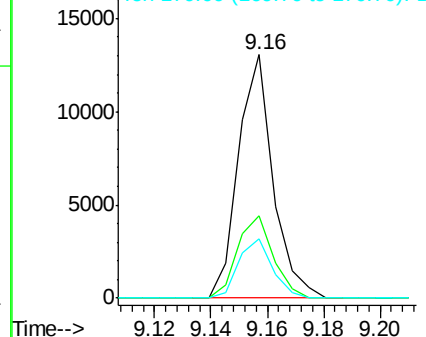
Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.8	29.7	44.5
170	24.1	19.6	29.4

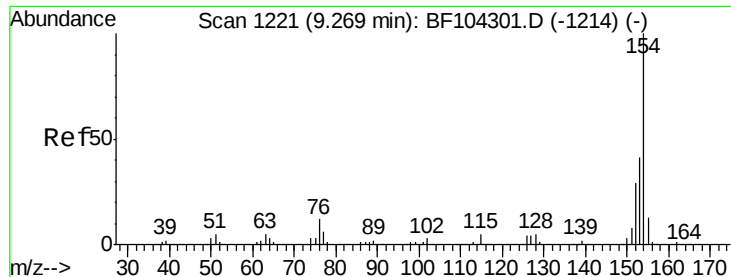
Abundance

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





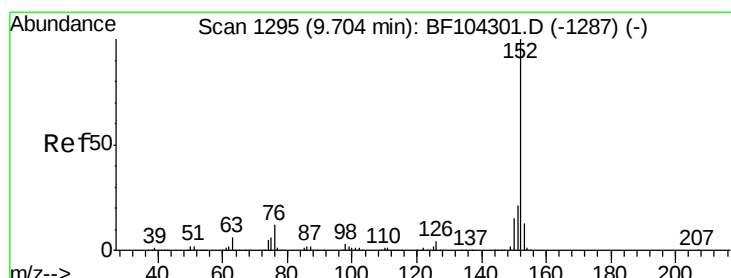
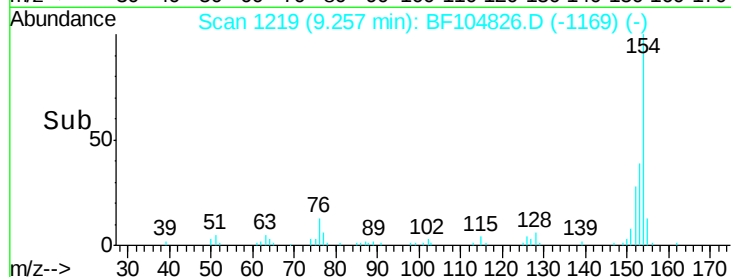
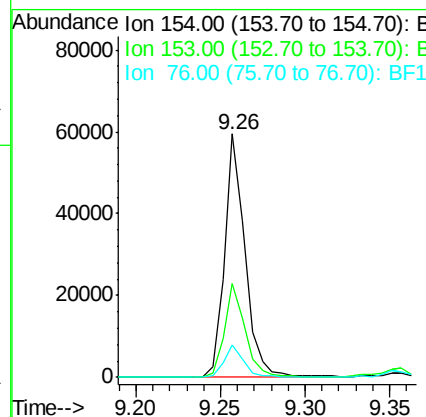
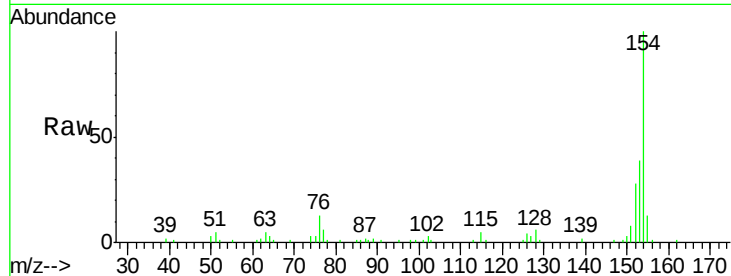
#45
 1,1'-Biphenyl
 Concen: 3.000 ng
 RT: 9.26 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Tot Ion:	154	Resp:	50668
Ion Ratio	Lower	Upper	
154	100		
153	38.5	21.3	61.3
76	13.4	0.0	34.0

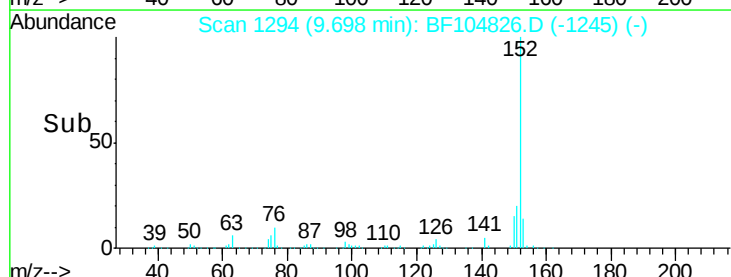
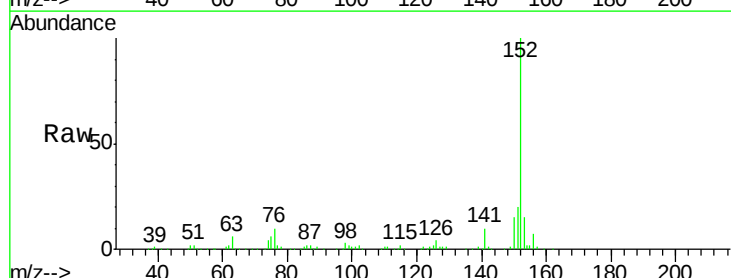
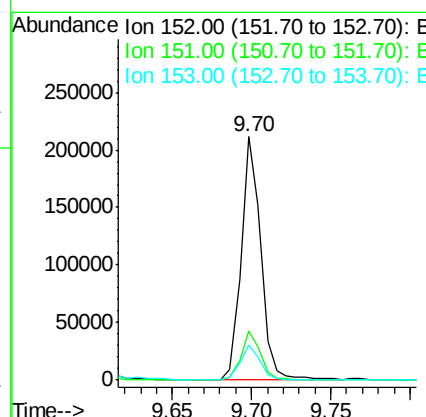
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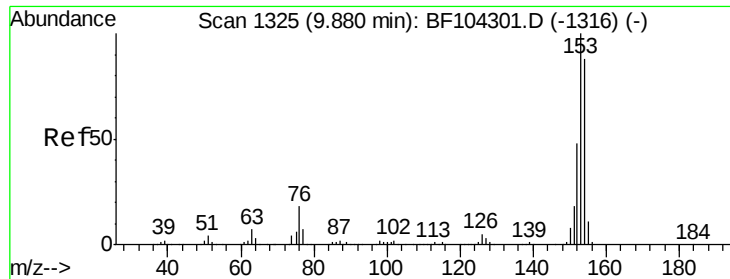
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#48
 Acenaphthylene
 Concen: 8.753 ng
 RT: 9.70 min Scan# 1294
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Tgt Ion:	152	Resp:	183190
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	14.5	10.7	16.1





#51

Acenaphthene

Concen: 12.945 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Instrument :

BNA_F

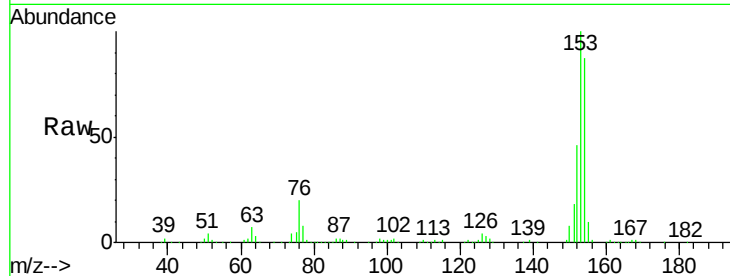
ClientSampleId :

A2-SB01-N-3DL

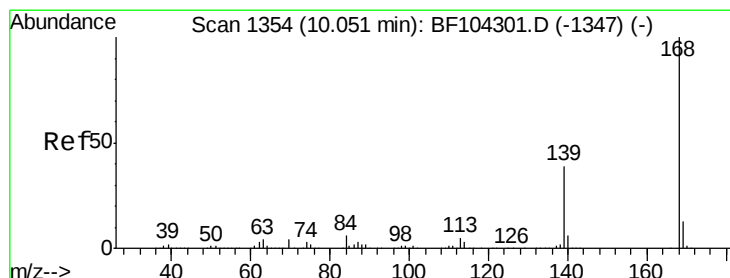
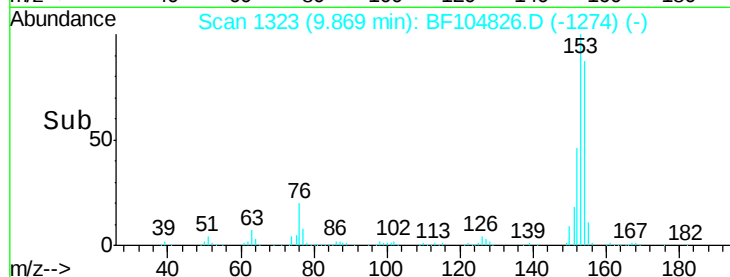
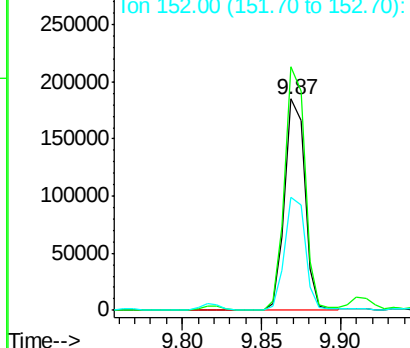
Tot Ion:	154	Resp:	165305
Ion Ratio	Lower	Upper	
154	100		
153	115.2	91.2	136.8
152	53.4	43.8	65.8

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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: 9.698 ng

RT: 10.05 min Scan# 1353

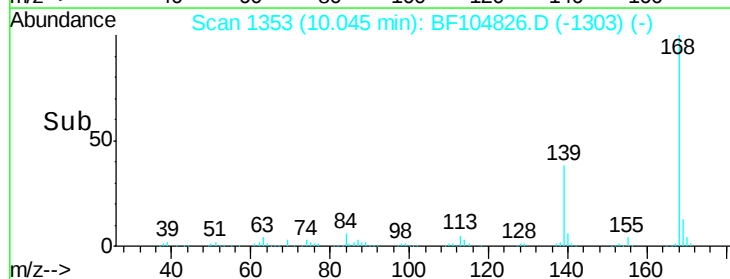
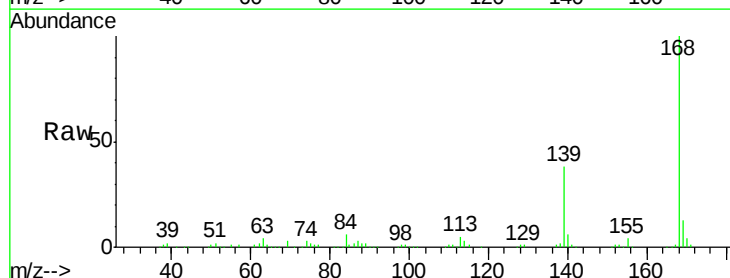
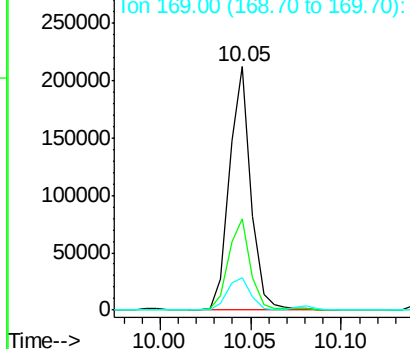
Delta R.T. -0.01 min

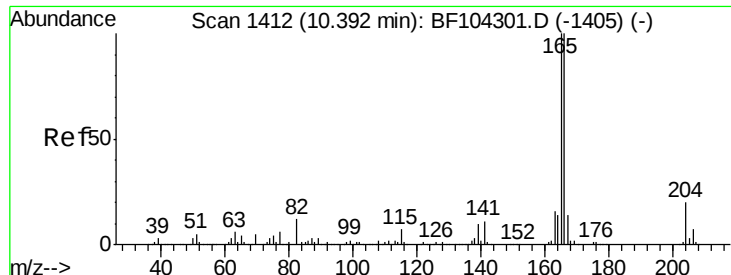
Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Tgt Ion:	168	Resp:	172596
Ion Ratio	Lower	Upper	
168	100		
139	37.6	30.1	45.1
169	13.4	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





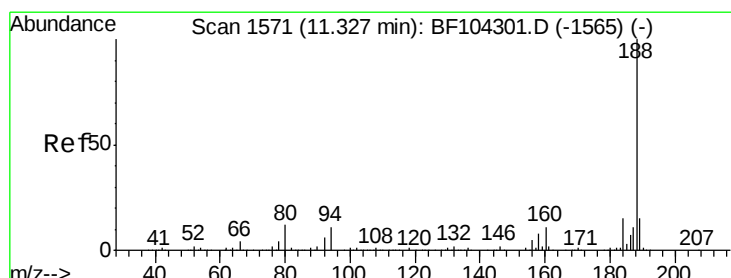
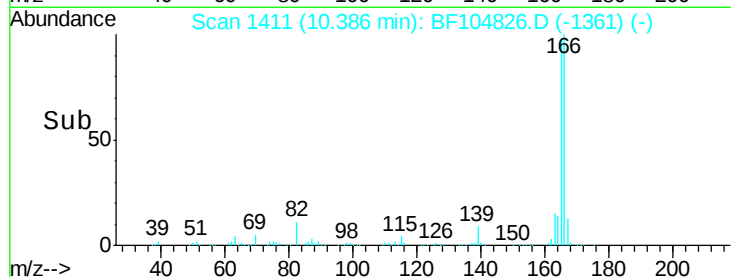
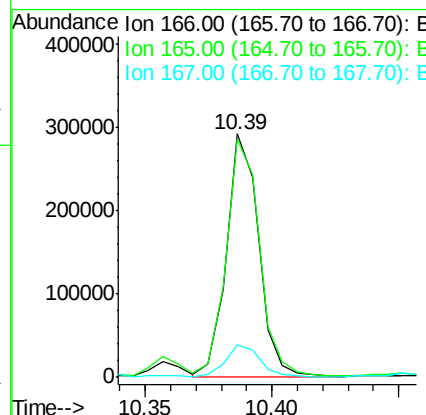
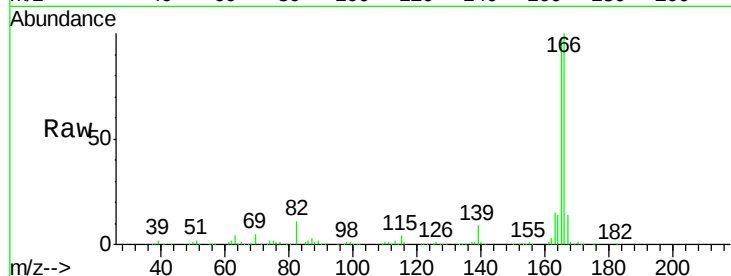
#57
Fluorene
 Concen: 19.777 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		256182		
165	98.0	79.8	119.8		
167	13.6	10.6	16.0		

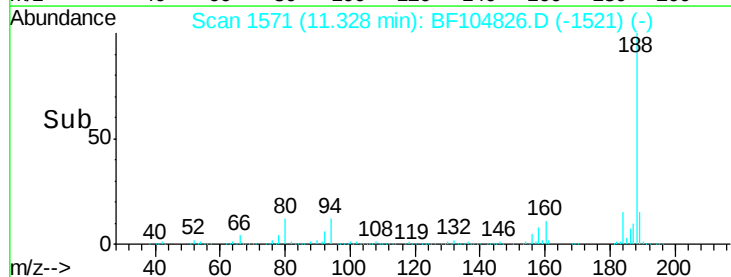
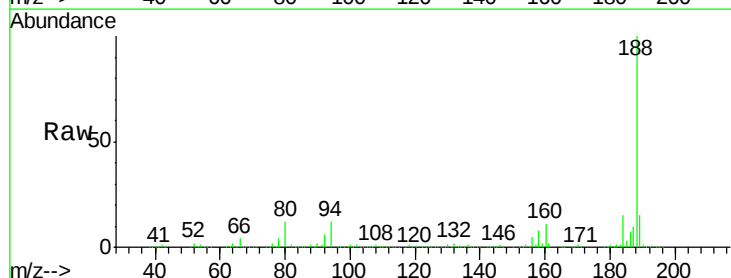
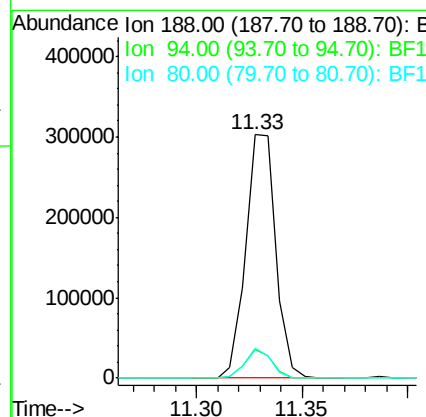
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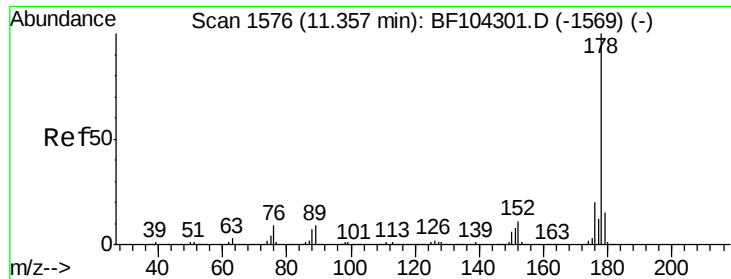
Sohil
 4/26/2018 6:15:21 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		298189		
94	11.7	8.5	12.7		
80	12.5	9.2	13.8		





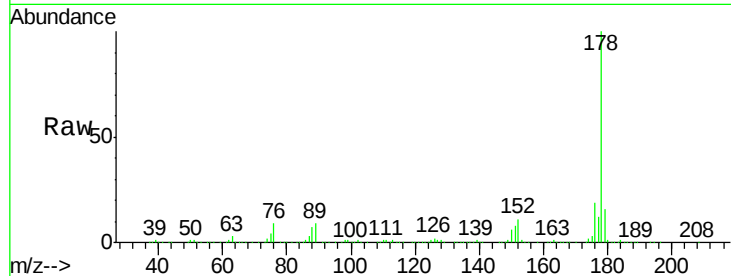
#70
Phenanthrene
Concen: 57.126 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3DL

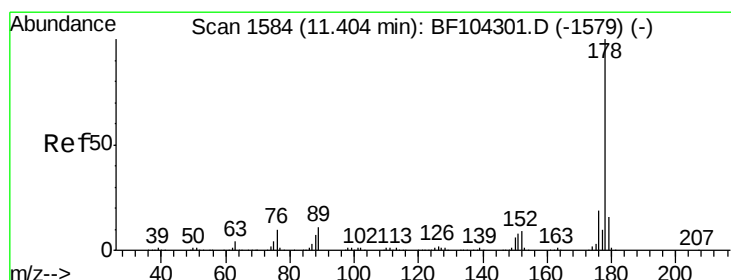
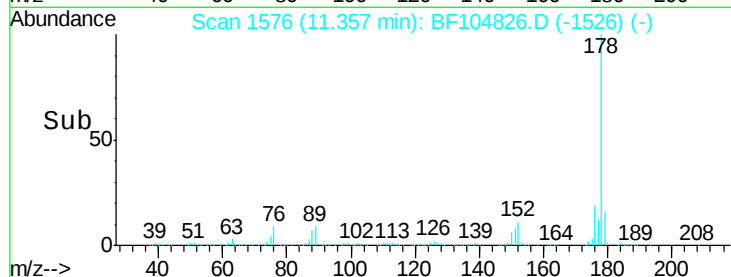
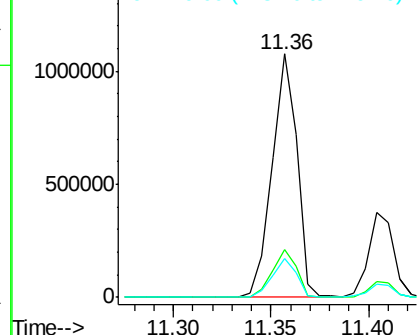
Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		948639		
176	19.4	15.8	23.8		
179	15.8	13.0	19.6		

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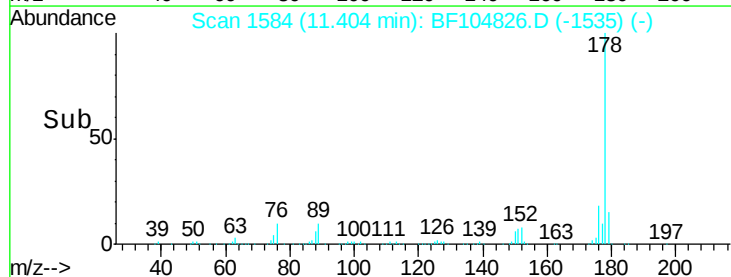
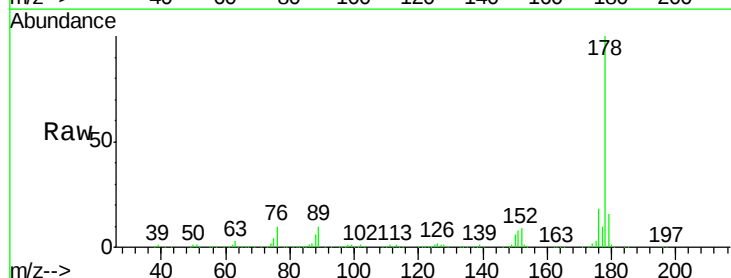
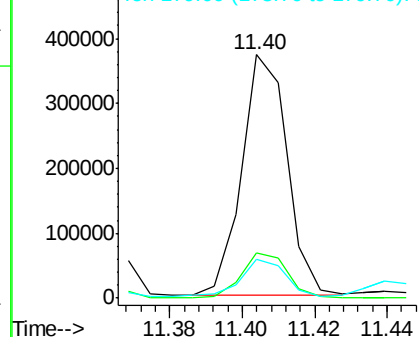
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

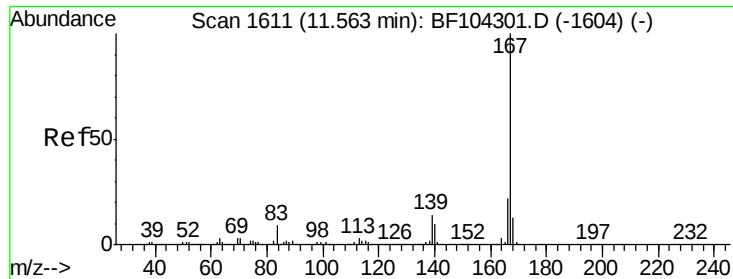


#71
Anthracene
Concen: 19.279 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		325432		
176	18.3	15.4	23.2		
179	15.7	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: 4.565 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Instrument :

BNA_F

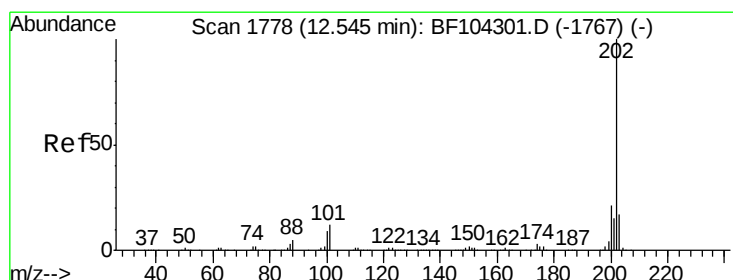
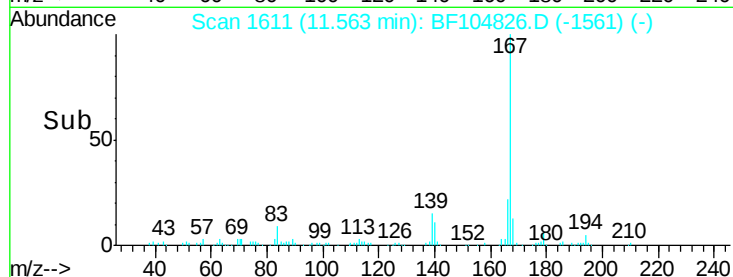
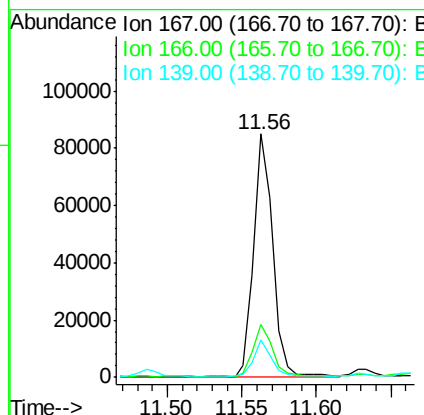
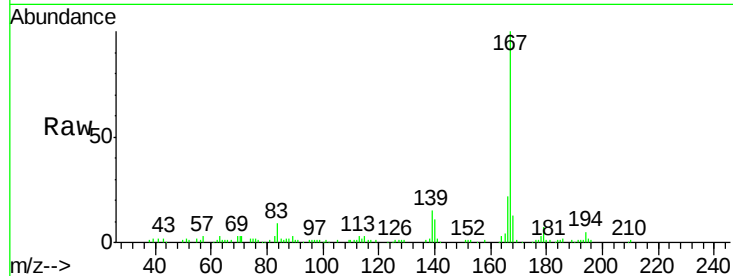
ClientSampleId :

A2-SB01-N-3DL

Tot Ion:	167	Resp:	75304
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	15.4	10.9	16.3

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#74

Fluoranthene

Concen: 47.952 ng

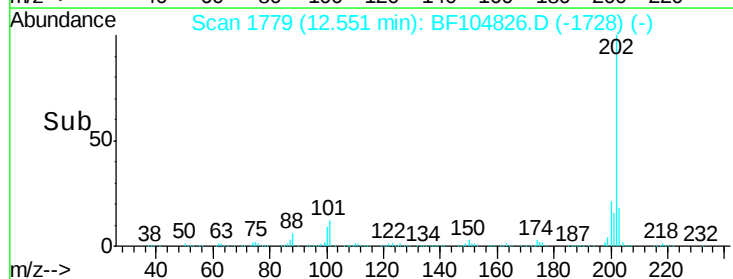
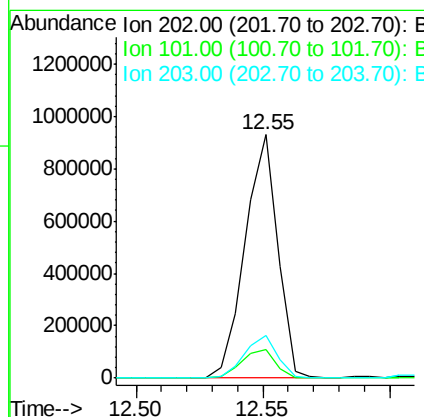
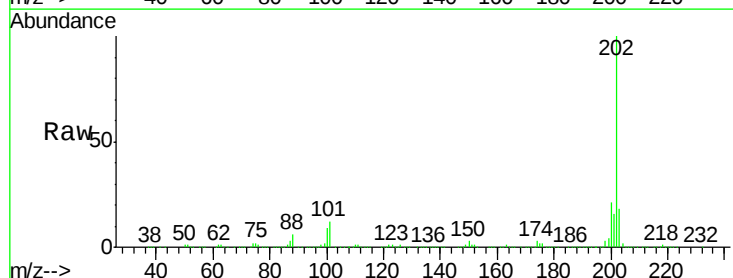
RT: 12.55 min Scan# 1779

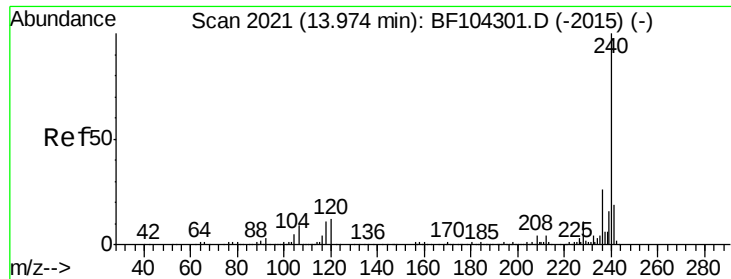
Delta R.T. -0.00 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Tgt Ion:	202	Resp:	831965
Ion Ratio	Lower	Upper	
202	100		
101	11.9	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Instrument :

BNA_F

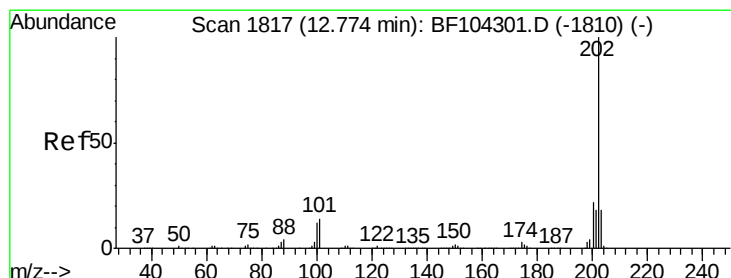
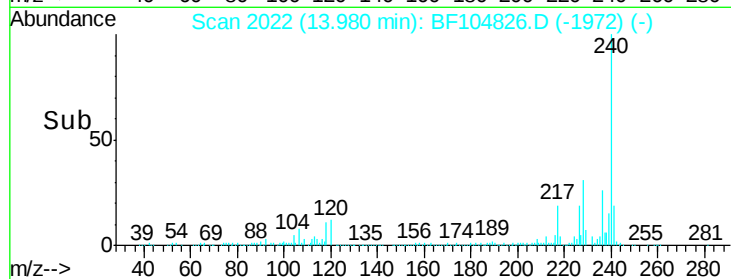
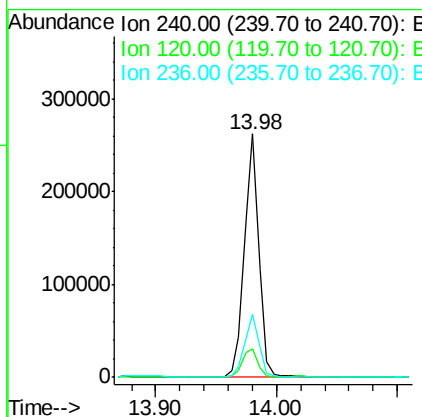
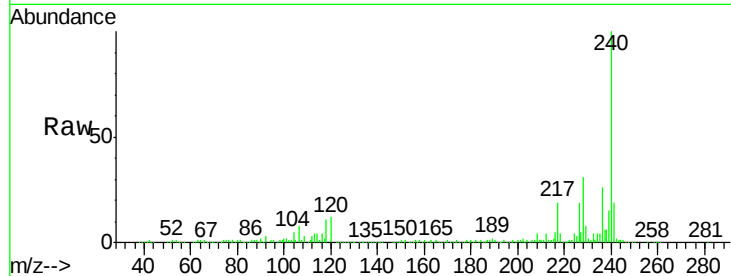
ClientSampleId :

A2-SB01-N-3DL

Tot Ion:	240	Resp:	219647
Ion Ratio		Lower	Upper
240	100		
120	11.9	9.5	14.3
236	26.0	20.7	31.1

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#77

Pyrene

Concen: 48.731 ng

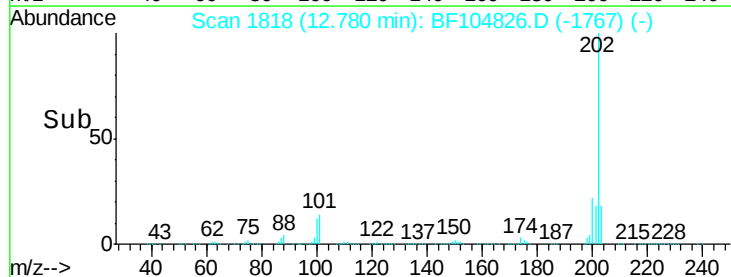
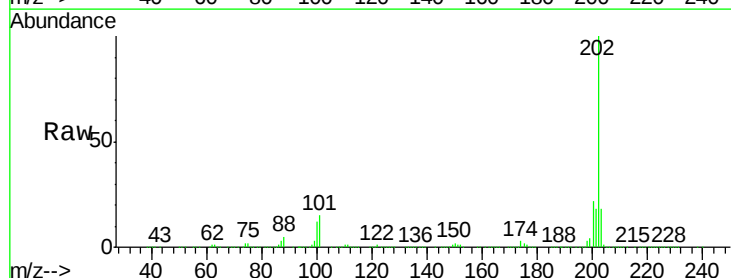
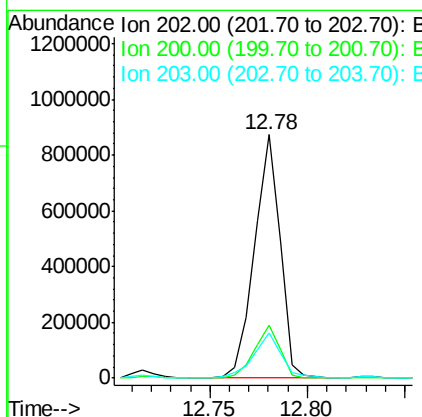
RT: 12.78 min Scan# 1818

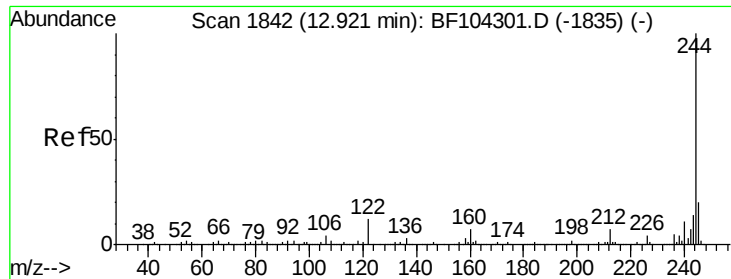
Delta R.T. -0.00 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Tgt Ion:	202	Resp:	793390
Ion Ratio		Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.4	14.3	21.5





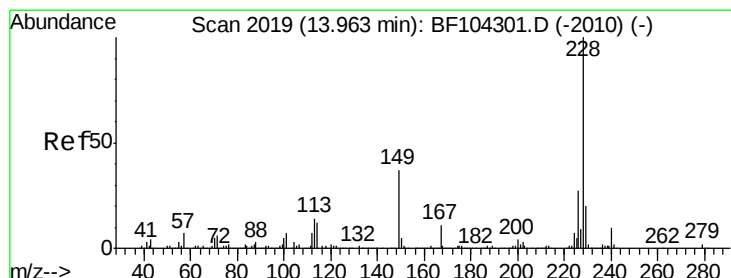
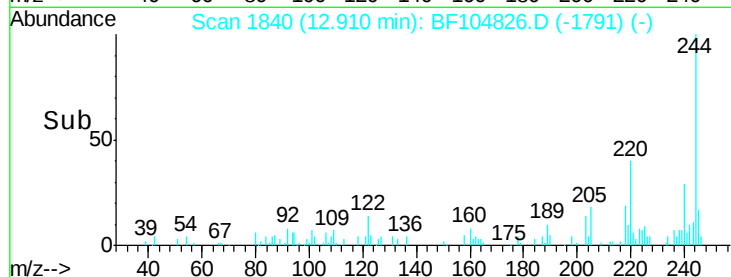
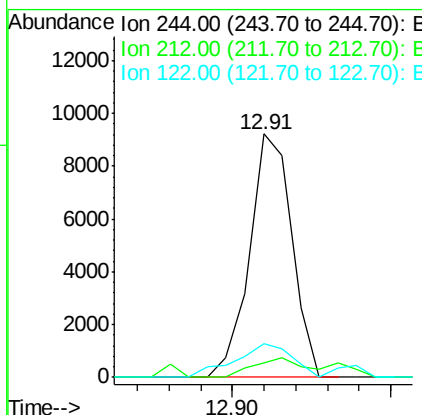
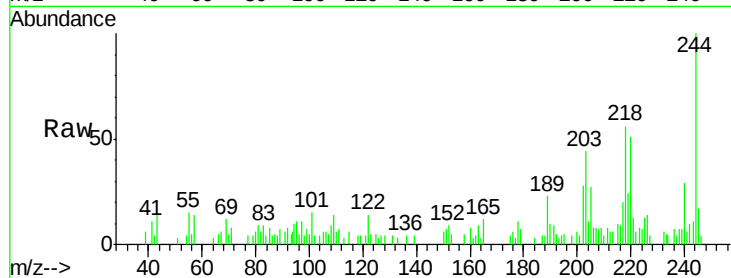
#78
 Terphenyl-d14
 Concen: 0.885 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.0	5.4	8.0
122	13.6	11.0	16.4

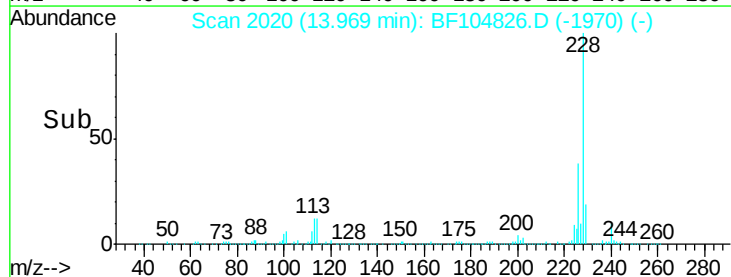
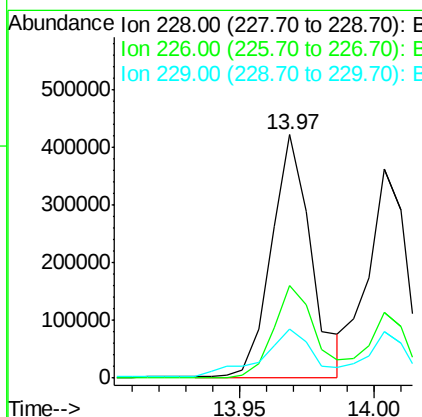
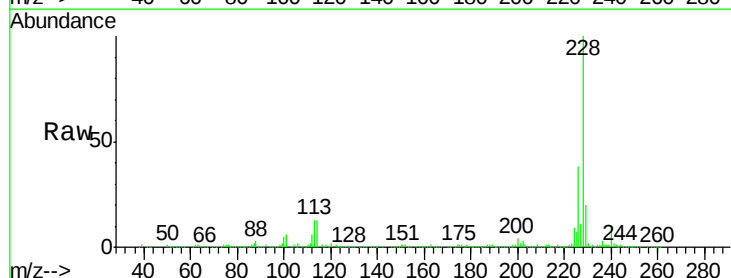
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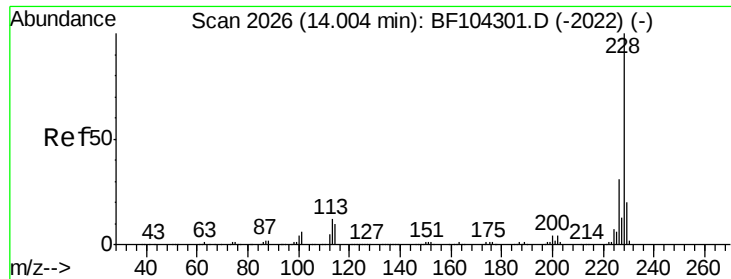
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#80
 Benzo(a)anthracene
 Concen: 33.360 ng m
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: BF104826.D
 Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.9	22.6	33.8#
229	20.3	15.8	23.6





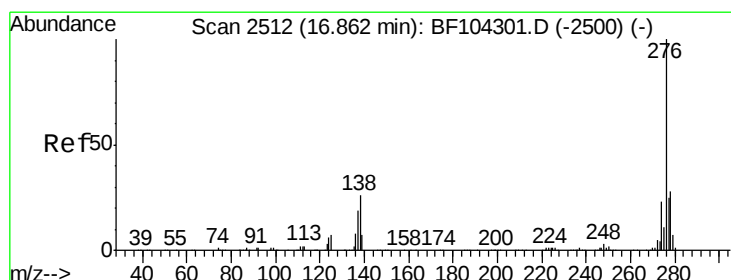
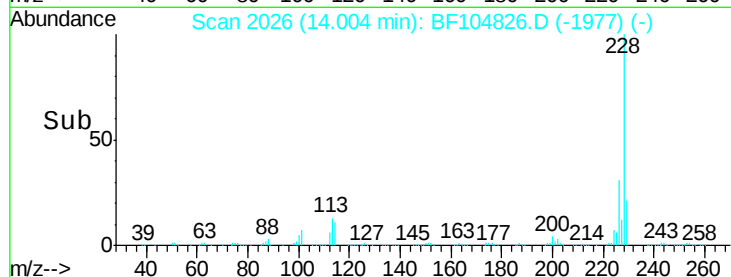
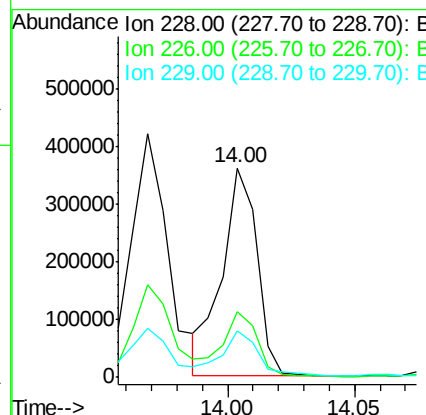
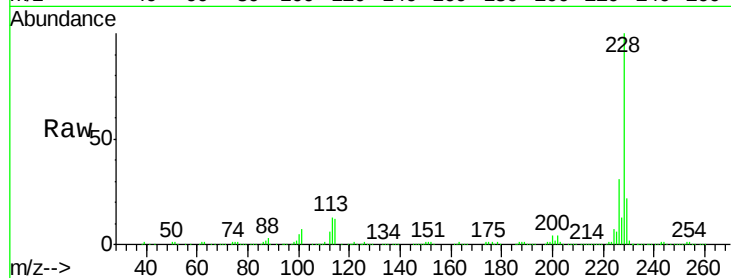
#82
Chrysene
Concen: 25.929 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.1	16.2	24.4

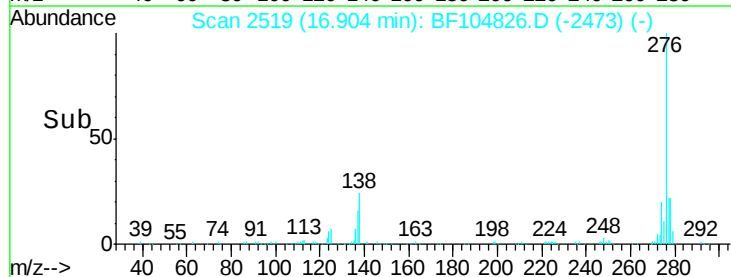
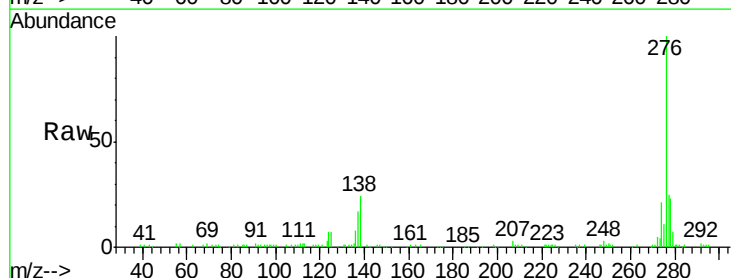
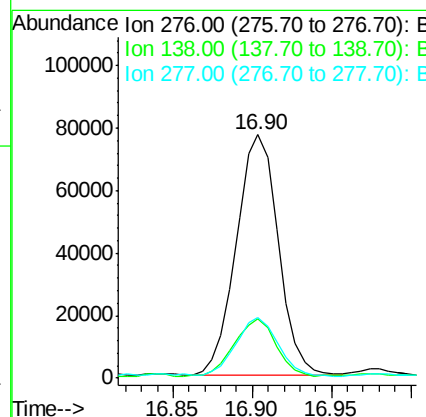
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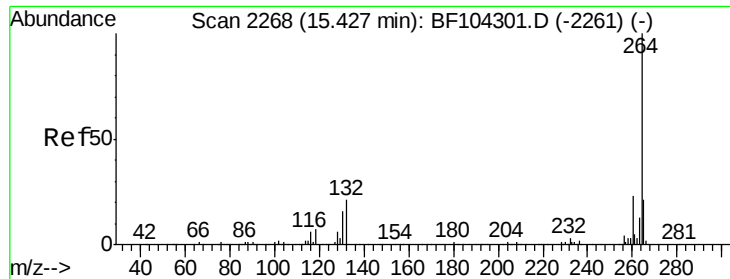
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 12.310 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.03 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.4	25.0	37.6#
277	24.6	20.1	30.1





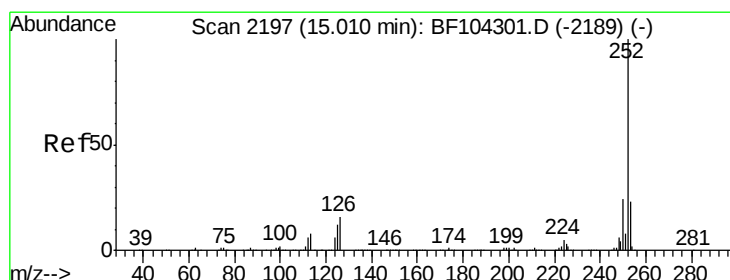
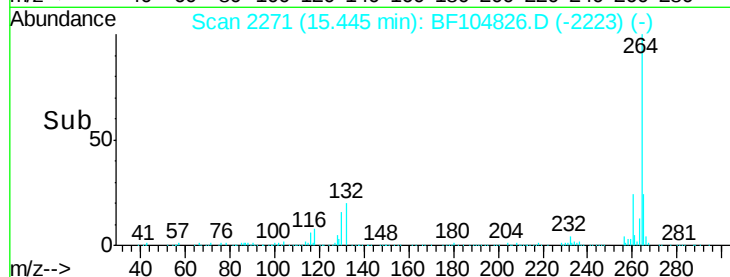
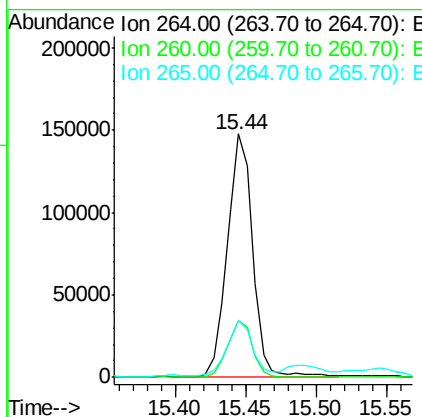
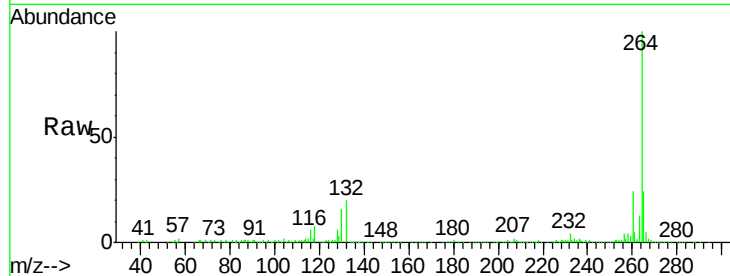
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampled :
A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.5	17.5	26.3

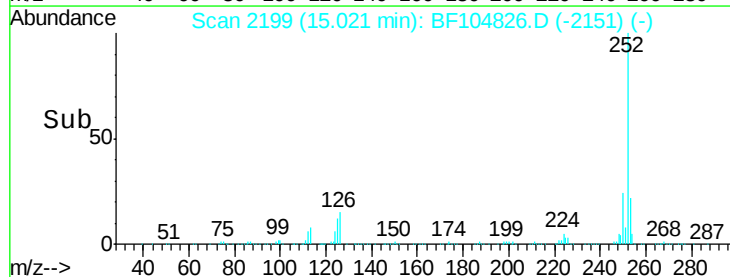
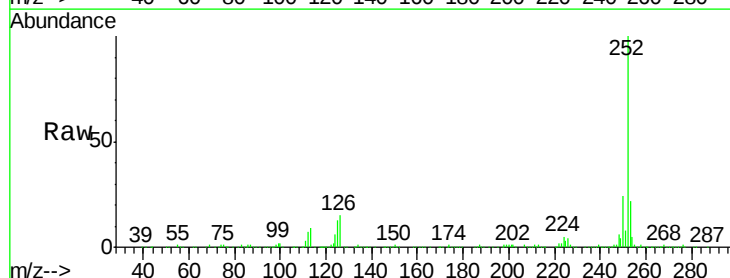
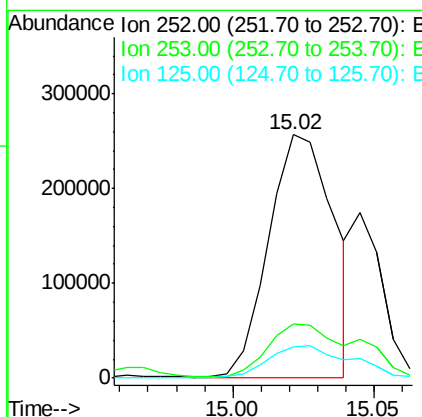
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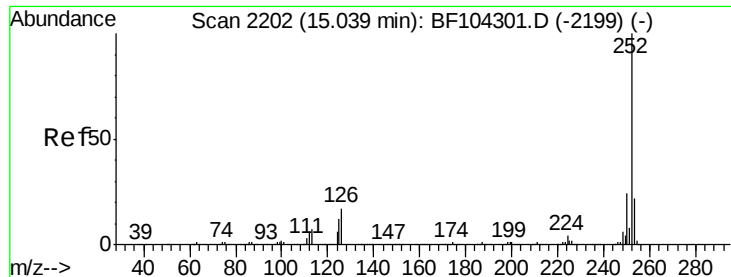
Sohil
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#87
Benzo(b)fluoranthene
Concen: 35.555 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	12.8	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 11.825 ng

RT: 15.04 min Scan# 2203

Delta R.T. -0.02 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Instrument :

BNA_F

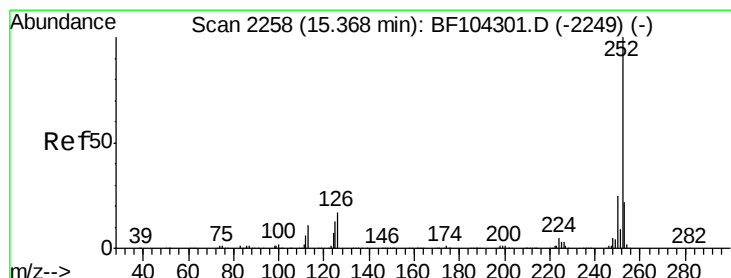
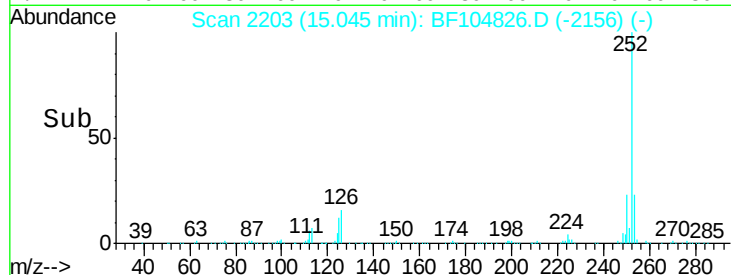
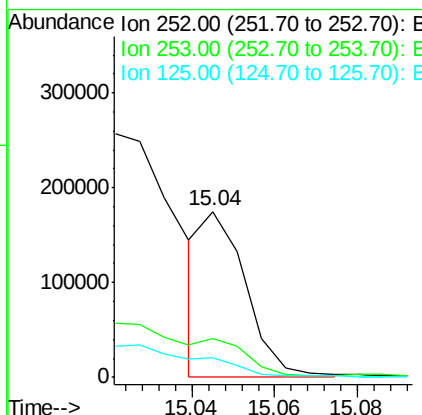
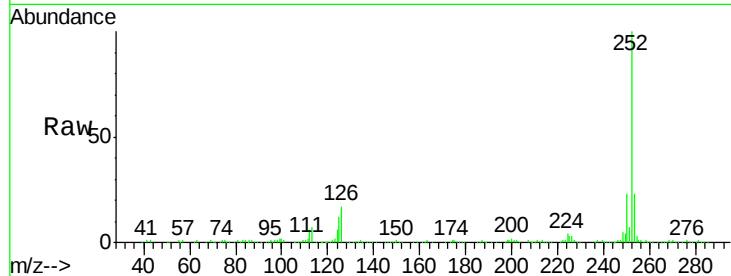
ClientSampleId :

A2-SB01-N-3DL

Tot Ion:	252	Resp:	129311
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	11.9	10.2	15.2

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#89

Benzo(a)pyrene

Concen: 29.778 ng

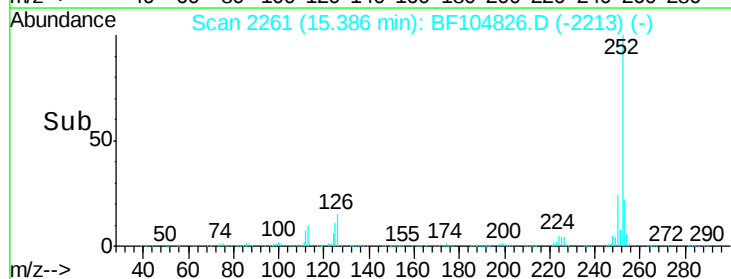
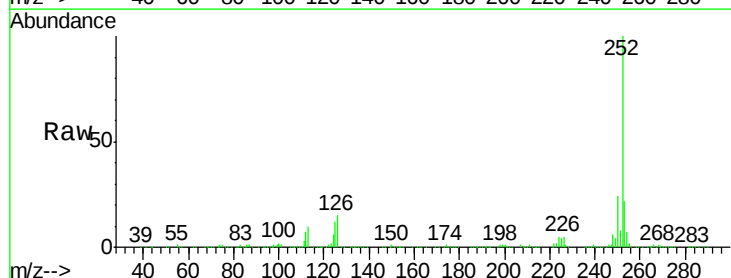
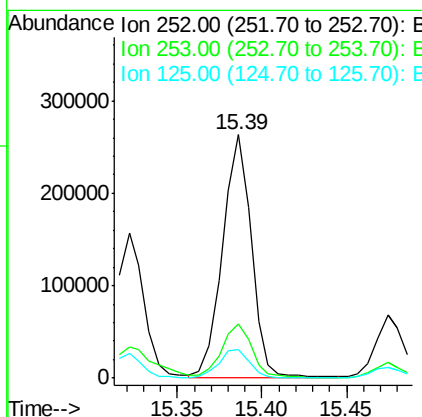
RT: 15.39 min Scan# 2261

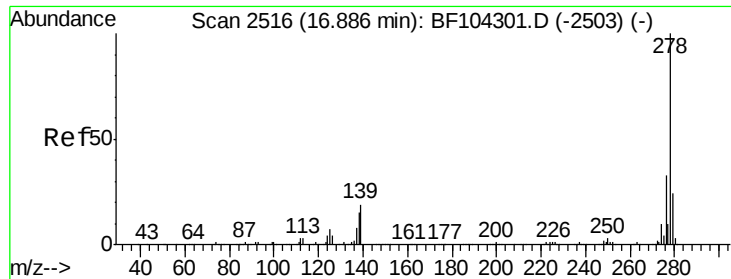
Delta R.T. -0.02 min

Lab File: BF104826.D

Acq: 26 Apr 2018 9:14

Tgt Ion:	252	Resp:	308630
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.1	25.7
125	11.5	9.8	14.6





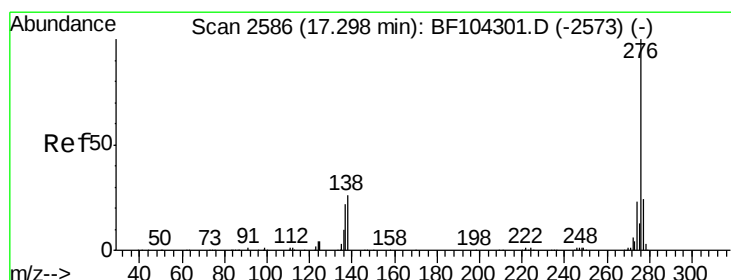
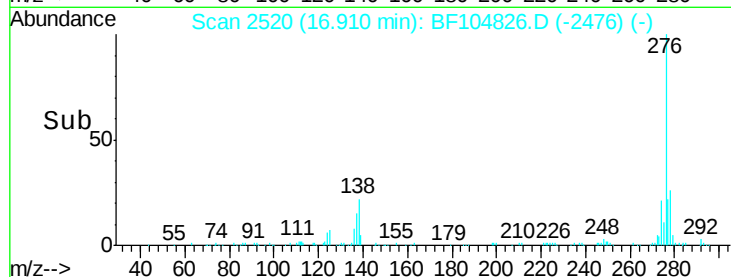
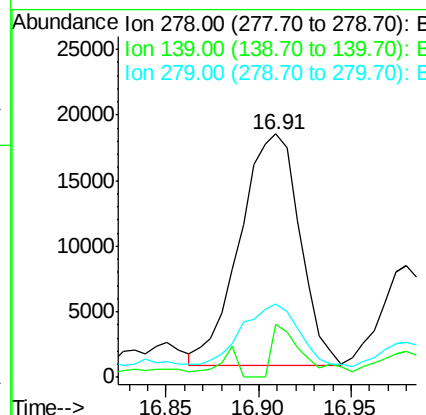
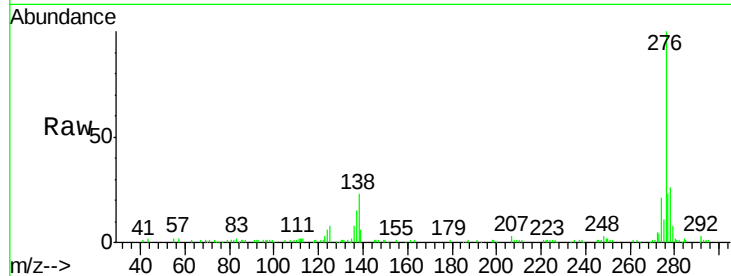
#90
Dibenzo(a,h)anthracene
Concen: 4.647 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.04 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.8	15.9	23.9
279	30.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/26/2018 6:15:21 PM



#91
Benzo(g,h,i)perylene
Concen: 16.357 ng
RT: 17.34 min Scan# 2594
Delta R.T. -0.04 min
Lab File: BF104826.D
Acq: 26 Apr 2018 9:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	25.5	21.8	32.8

