

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104749.D
 Acq On : 24 Apr 2018 10:56
 Operator : JU/SJ
 Sample : J2497-09 10X
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-E-3.5

Manual Integrations
 APPROVED

Quant Time: Apr 24 12:05:09 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 23 15:38:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	90601	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	345461	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	145480	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	242268	20.00	ng	0.01
75) Chrysene-d12	14.00	240	149093	20.00	ng	0.02
86) Perylene-d12	15.48	264	124240	20.00	ng	0.03

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System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	10819	1.83	ng	0.02
7) Phenol-d6	6.45	99	14482m	1.99	ng	0.00
23) Nitrobenzene-d5	7.37	82	7238	1.37	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	2553	1.69	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	18394	2.00	ng	0.00
78) Terphenyl-d14	12.93	244	19698	3.01	ng	0.00

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Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.12	128	354218	20.592	ng	99
37) 2-Methylnaphthalene	8.80	142	58174	5.228	ng	98
45) 1,1'-Biphenyl	9.27	154	26703	2.185	ng	99
48) Acenaphthylene	9.72	152	748355	49.410	ng	99
51) Acenaphthene	9.88	154	35959	3.891	ng	97
54) Dibenzofuran	10.06	168	81198	6.305	ng	97
57) Fluorene	10.40	166	141960	15.144	ng	100
70) Phenanthrene	11.37	178	832575	61.710	ng	99
71) Anthracene	11.42	178	476834	34.769	ng	99
72) Carbazole	11.57	167	49248	3.675	ng	98
74) Fluoranthene	12.57	202	1640822	116.401	ng	98
77) Pyrene	12.80	202	1604045	145.146	ng	99
80) Benzo(a)anthracene	13.99	228	970571m	108.967	ng	
82) Chrysene	14.03	228	916315m	100.157	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	527148m	67.828	ng	
87) Benzo(b)fluoranthene	15.06	252	1158700m	147.666	ng	
88) Benzo(k)fluoranthene	15.08	252	333696m	45.045	ng	
89) Benzo(a)pyrene	15.43	252	861930	122.766	ng	96
90) Dibenzo(a,h)anthracene	16.96	278	149892m	25.995	ng	
91) Benzo(a,h,i)perylene	17.42	276	523449	93.698	ng	95

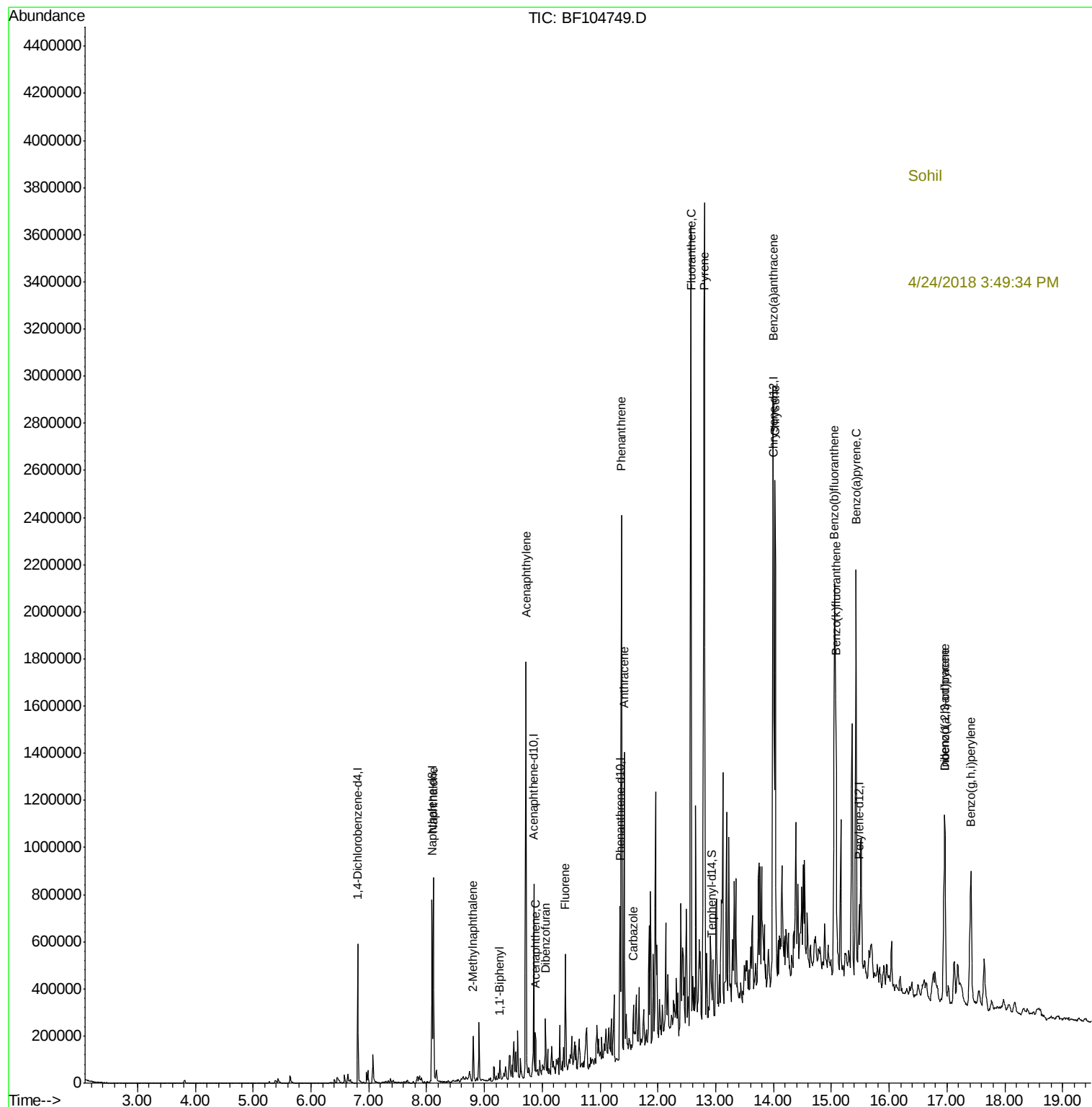
(#) = qualifier out of range (m) = manual integration (+) = signals summed

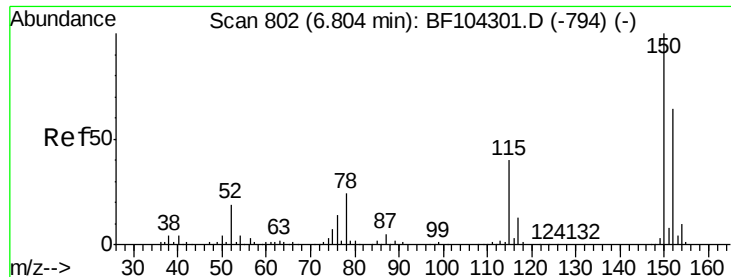
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
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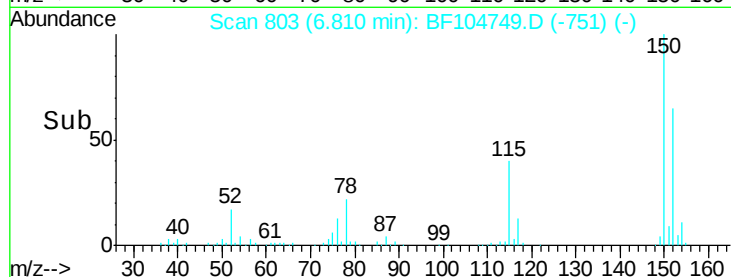
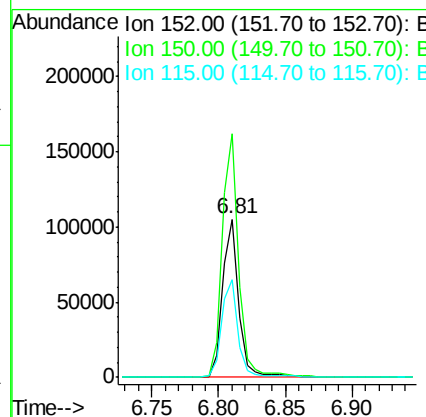
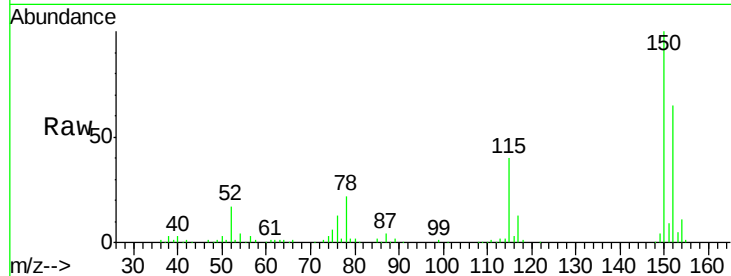
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.6	186.8
115	61.5	50.1	75.1

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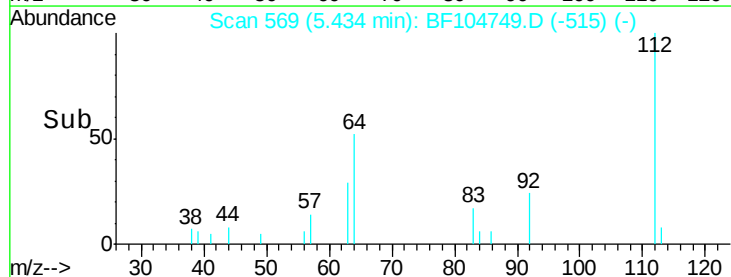
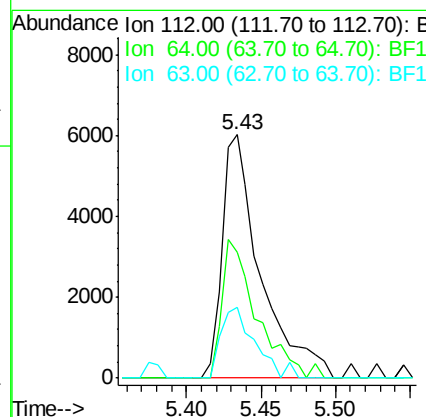
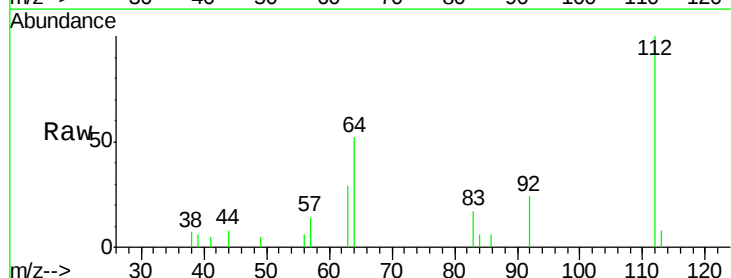
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#5

2-Fluorophenol
Concen: 1.826 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.02 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.5	47.9	71.9
63	28.9	23.7	35.5





#7

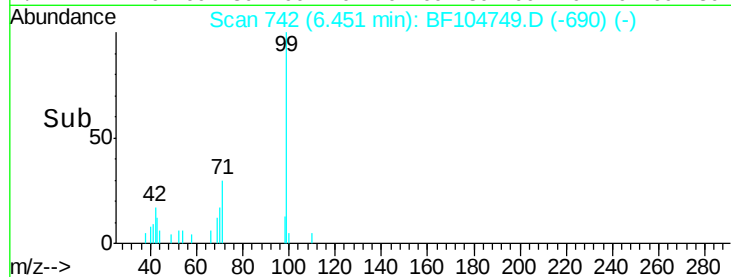
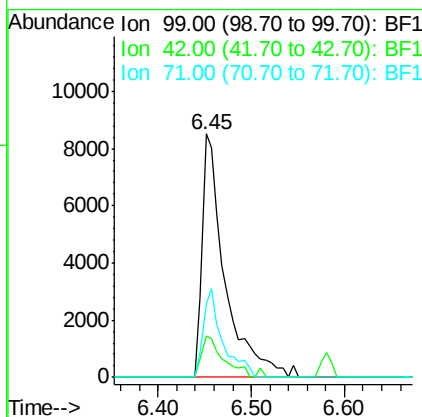
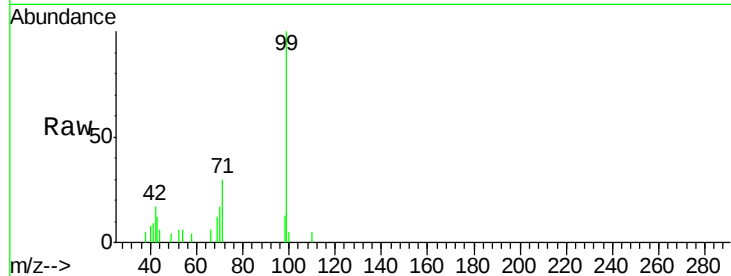
Phenol-d6

Concen: 1.989 ng/mL
 RT: 6.45 min Scan# 742
 Delta R.T. 0.01 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Instrument :
 BNA_F
 ClientSampled :
 A2-SB02-E-3.5

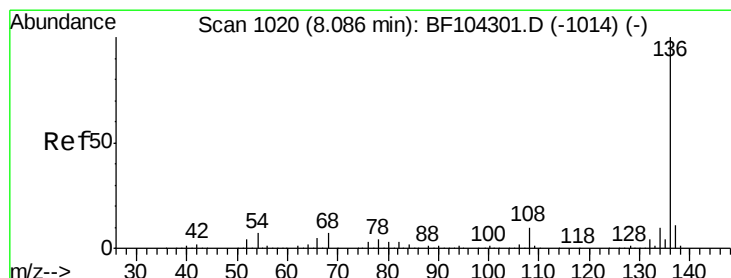
Tot Ion	Ion	Ratio	Lower	Upper
99	100			
42	17.1	14.5	21.7	
71	29.9	25.4	38.0	

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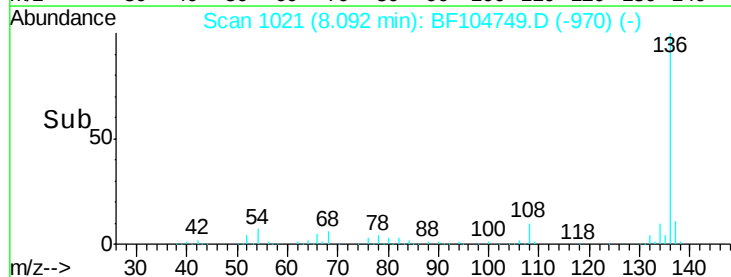
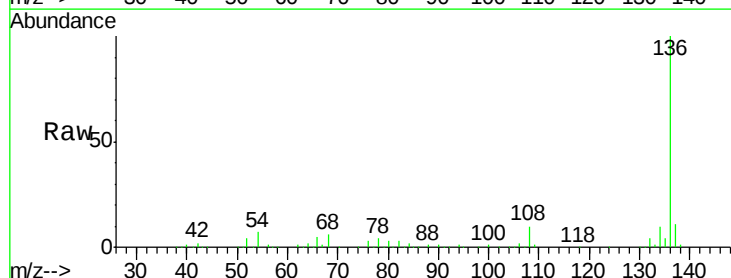
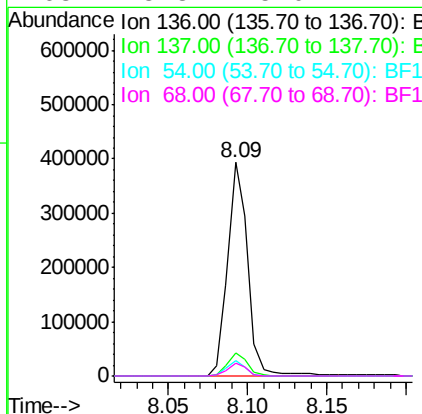


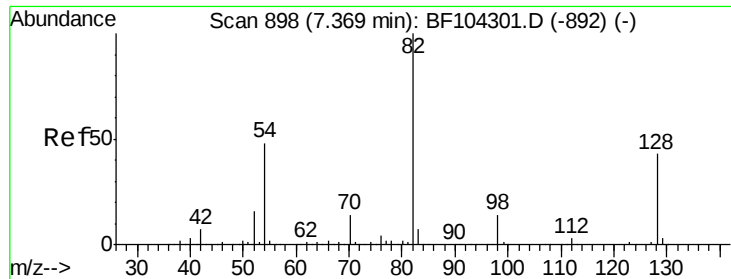
#21

Naphthalene-d8

Concen: 20.000 ng
 RT: 8.09 min Scan# 1021
 Delta R.T. -0.00 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	11.1	8.9	13.3	
54	7.1	6.6	9.8	
68	5.8	5.0	7.4	



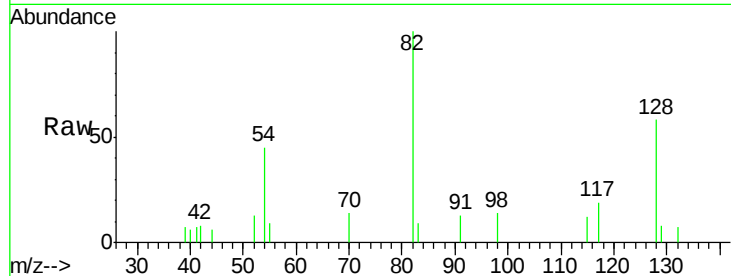


#23
Nitrobenzene-d5
Concen: 1.368 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.00 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

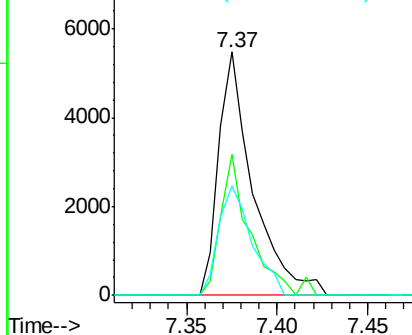
Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

Tot Ion	82	Resp	7238
Ion Ratio	100	Lower	Upper
128	57.9	36.1	54.1#
54	44.9	41.4	62.2

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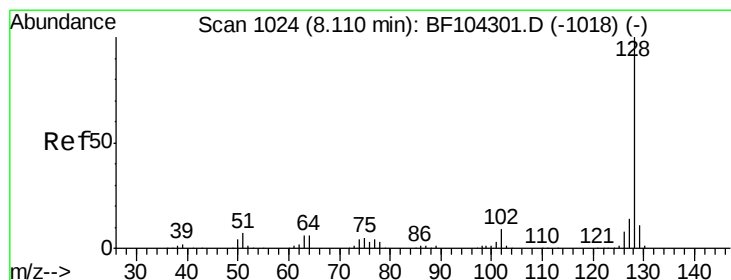
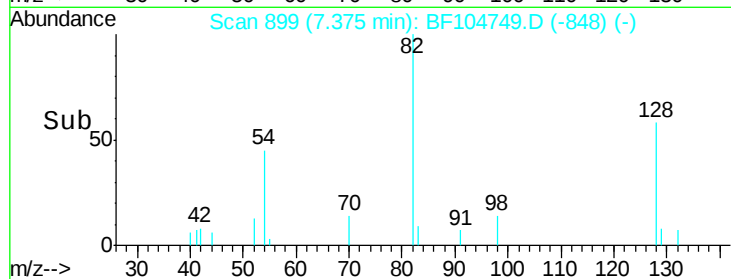


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1



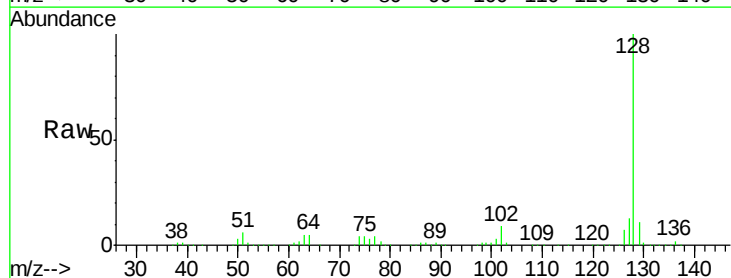
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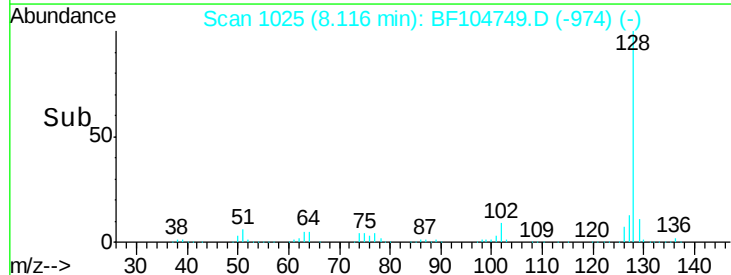
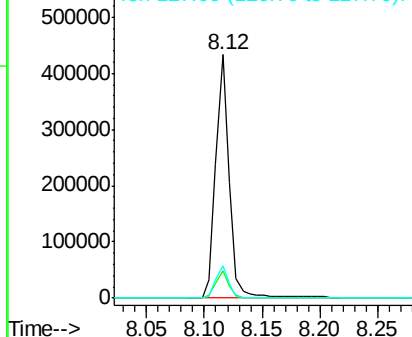


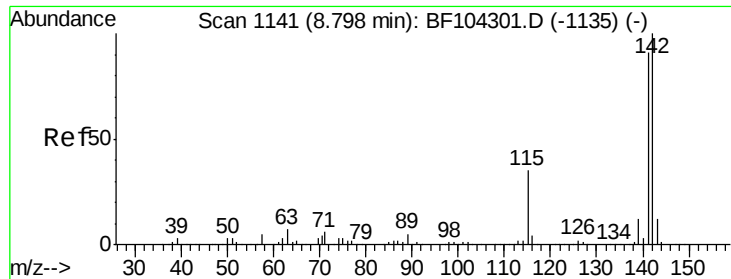
#31
Naphthalene
Concen: 20.592 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	128	Resp	354218
Ion Ratio	100	Lower	Upper
129	11.2	8.8	13.2
127	13.2	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



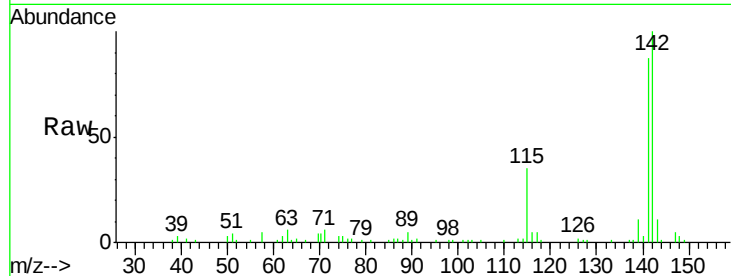


#37
2-Methylnaphthalene
Concen: 5.228 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

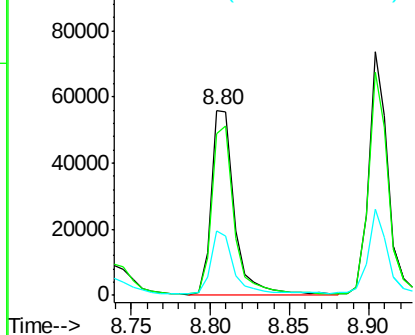
Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.3	70.8	106.2
115	34.8	26.1	39.1

Manual Integrations
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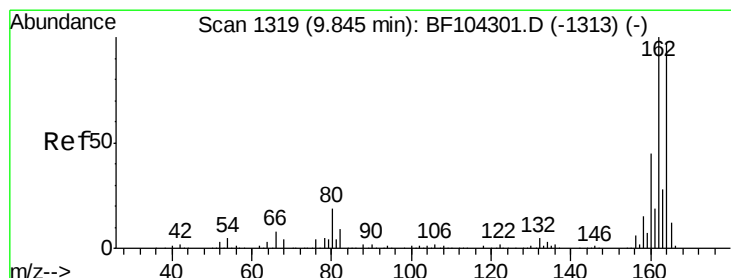
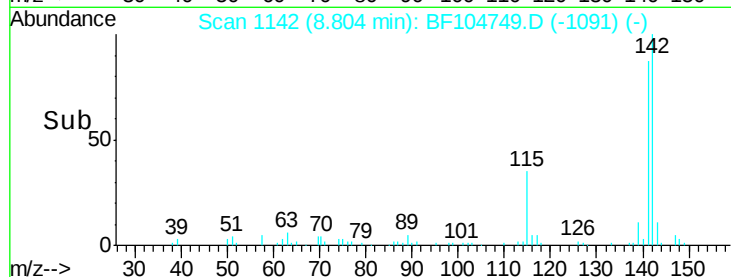


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



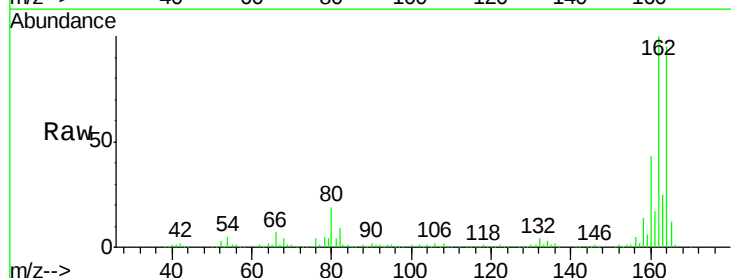
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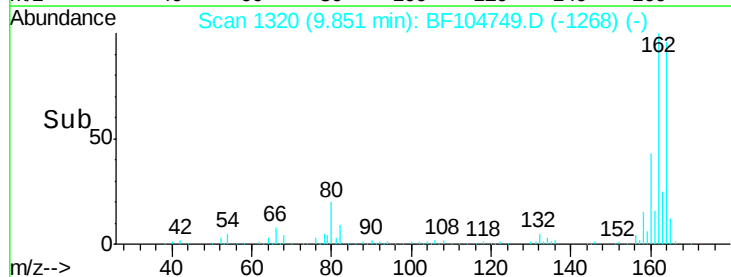
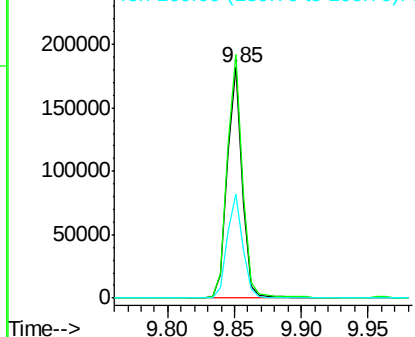


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.01 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.1	129.1
160	45.4	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



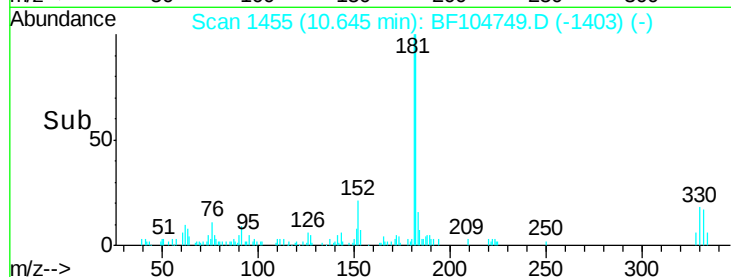
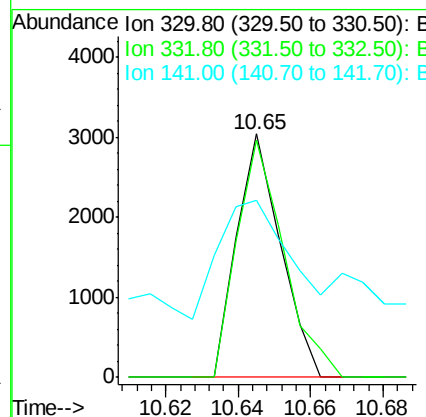
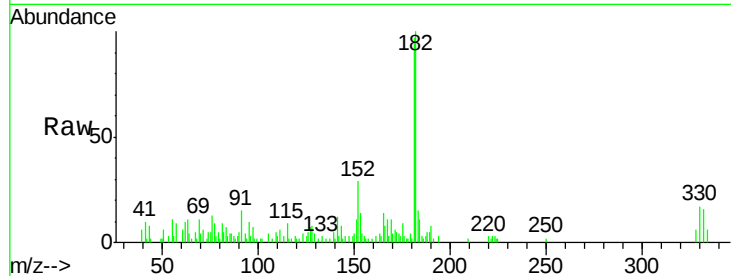


#41
 2,4,6-Tribromophenol
 Concen: 1.692 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-E-3.5

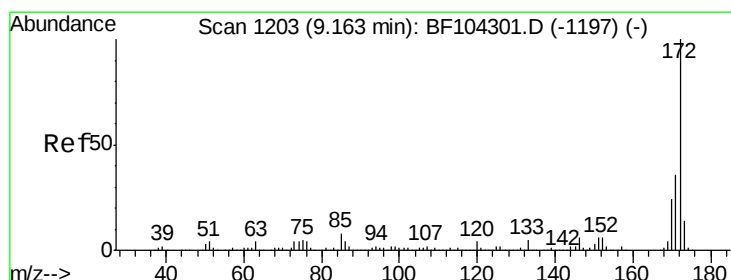
Tot Ion	Ratio	Lower	Upper
330	100		
332	104.6	77.0	115.6
141	77.1	29.9	44.9

Manual Integrations
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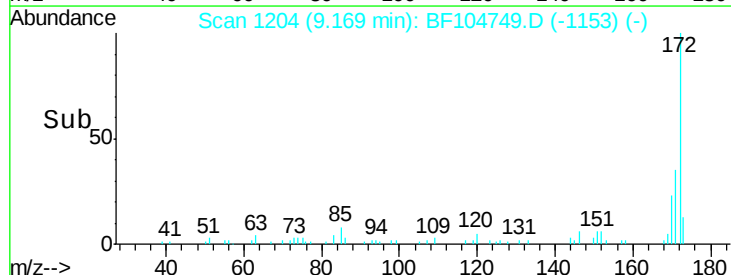
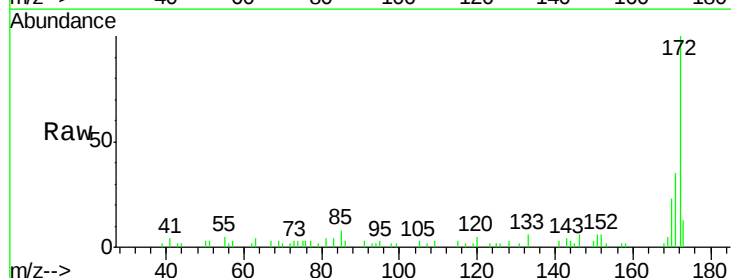
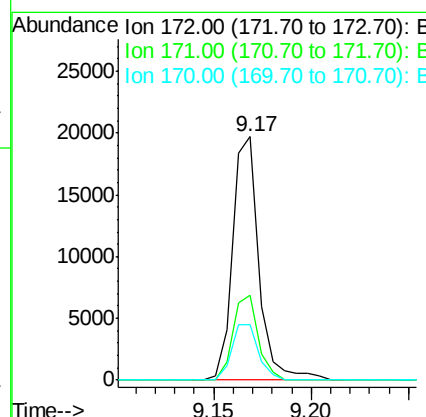
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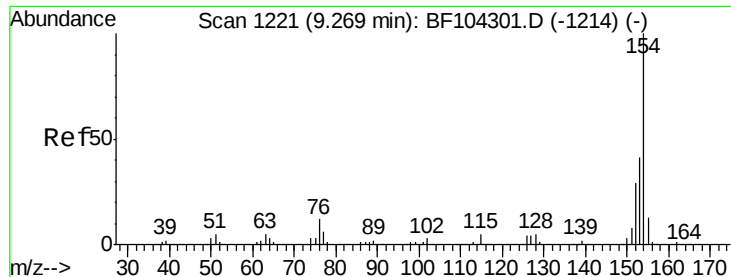
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#44
 2-Fluorobiphenyl
 Concen: 1.997 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.7	44.5
170	22.9	19.6	29.4





#45

1,1'-Biphenyl

Concen: 2.185 ng

RT: 9.27 min Scan# 1221

Delta R.T. -0.00 min

Lab File: BF104749.D

Acq: 24 Apr 2018 10:56

Instrument :

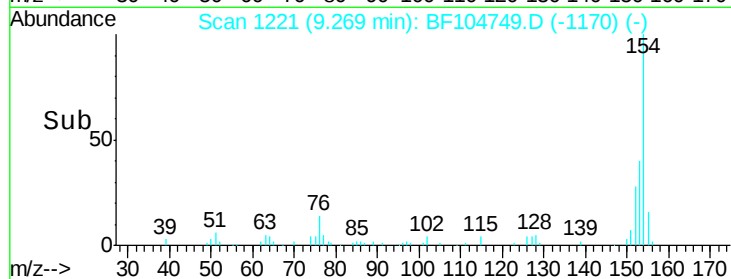
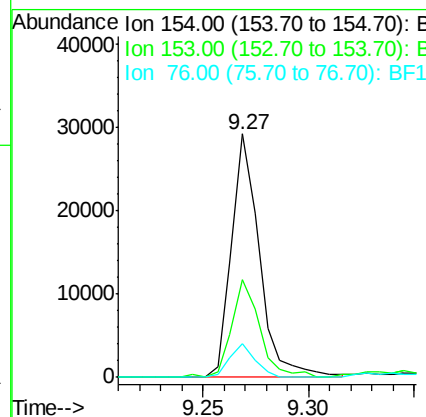
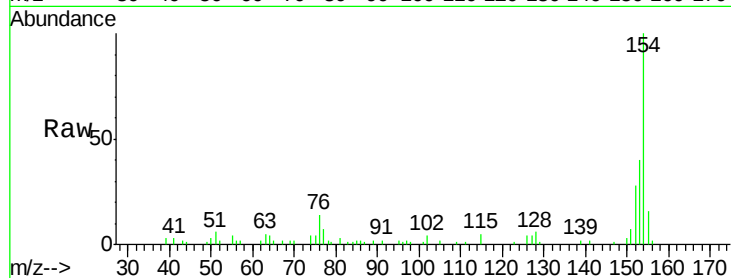
BNA_F

ClientSampleId :

A2-SB02-E-3.5

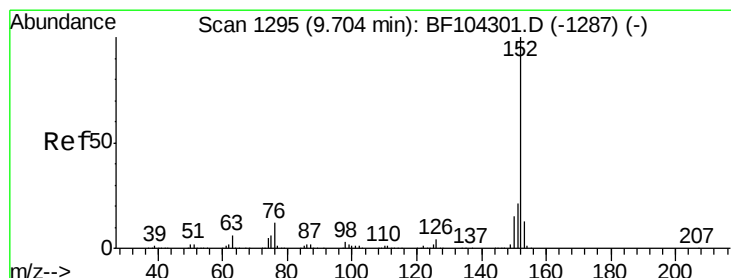
Tot Ion:	154	Resp:	26703
Ion Ratio	Lower	Upper	
154	100		
153	40.4	21.3	61.3
76	13.9	0.0	34.0

Manual Integrations
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#48

Acenaphthylene

Concen: 49.410 ng

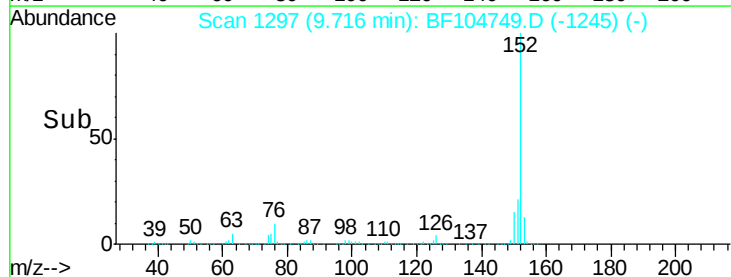
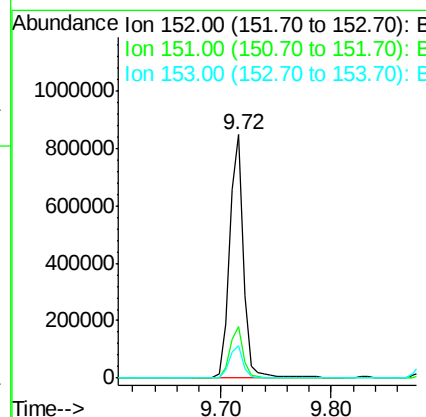
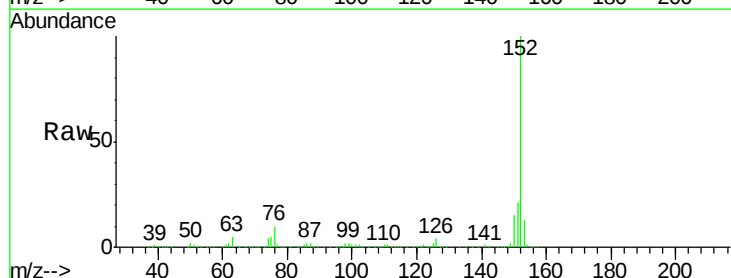
RT: 9.72 min Scan# 1297

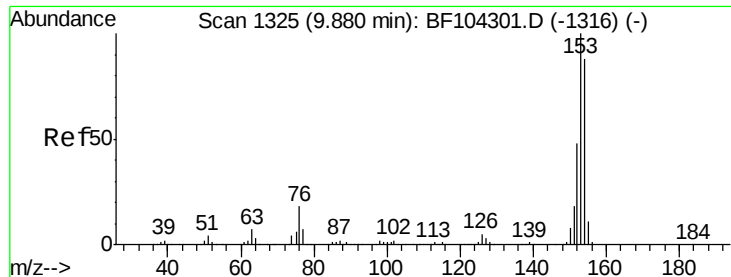
Delta R.T. 0.01 min

Lab File: BF104749.D

Acq: 24 Apr 2018 10:56

Tgt Ion:	152	Resp:	748355
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.3	24.5
153	13.1	10.7	16.1





#51

Acenaphthene

Concen: 3.891 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF104749.D

Acq: 24 Apr 2018 10:56

Instrument :

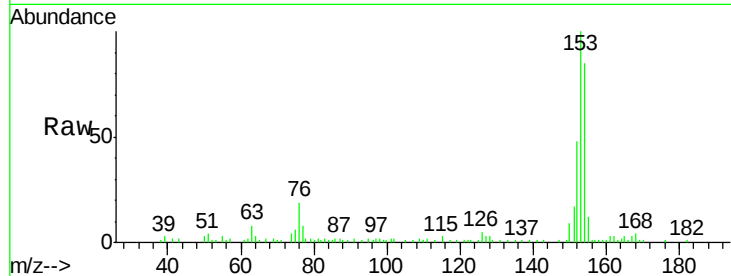
BNA_F

ClientSampleId :

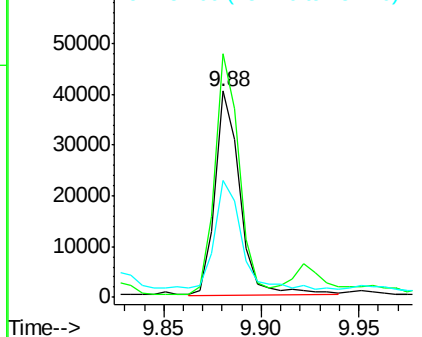
A2-SB02-E-3.5

Tot Ion:	154	Resp:	35959
Ion	Ratio	Lower	Upper
154	100		
153	118.3	91.2	136.8
152	56.5	43.8	65.8

Manual Integrations
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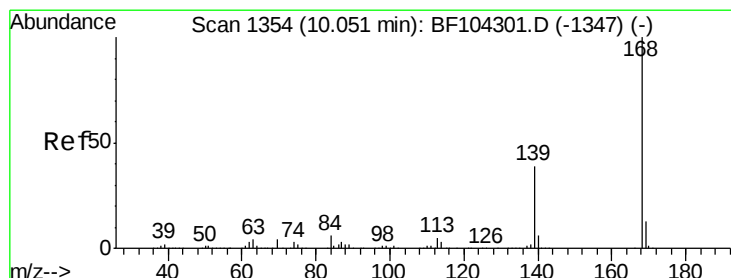


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



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#54

Dibenzofuran

Concen: 6.305 ng

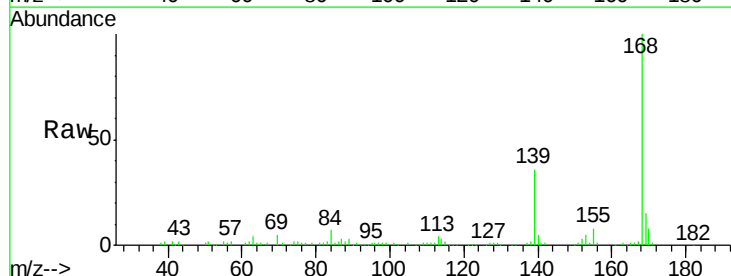
RT: 10.06 min Scan# 1355

Delta R.T. 0.01 min

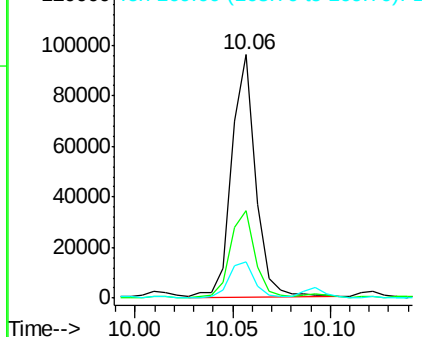
Lab File: BF104749.D

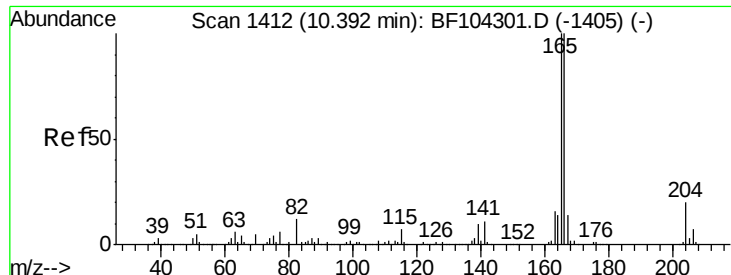
Acq: 24 Apr 2018 10:56

Tgt Ion:	168	Resp:	81198
Ion	Ratio	Lower	Upper
168	100		
139	36.0	30.1	45.1
169	14.7	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



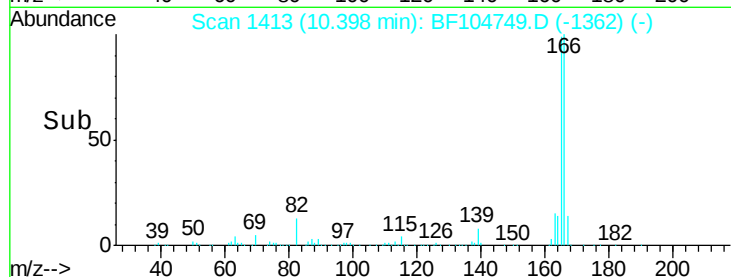
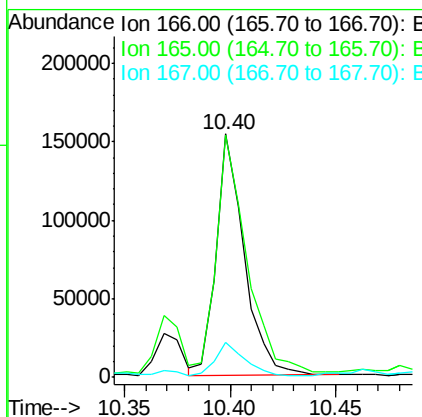
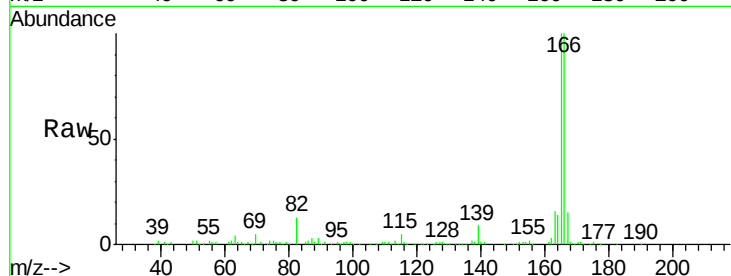


#57
Fluorene
 Concen: 15.144 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-E-3.5

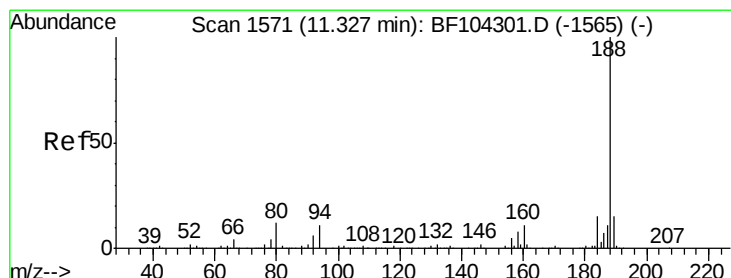
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	14.5	10.6	16.0

Manual Integrations
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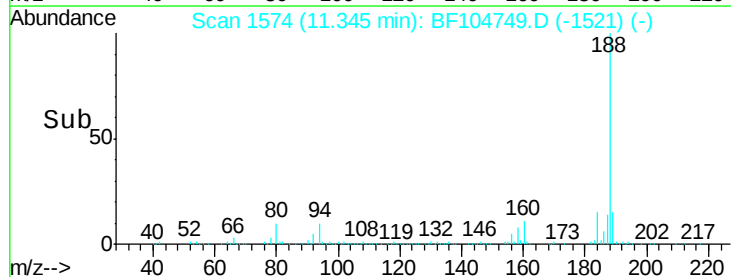
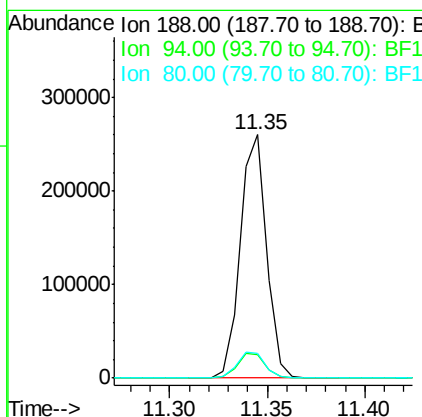
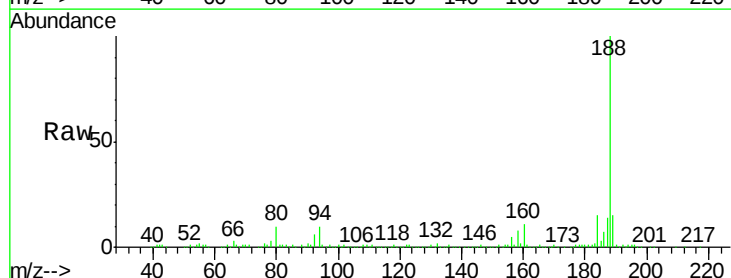
Sohil

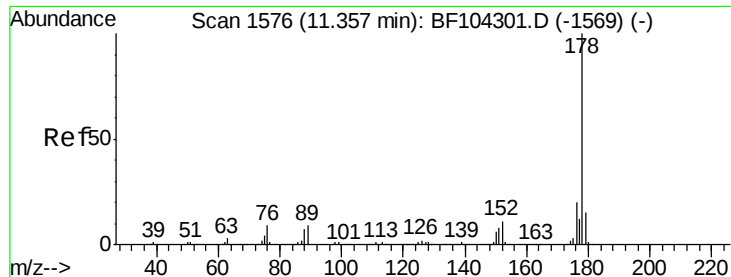
4/24/2018 3:49:34 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.5	12.7
80	10.3	9.2	13.8



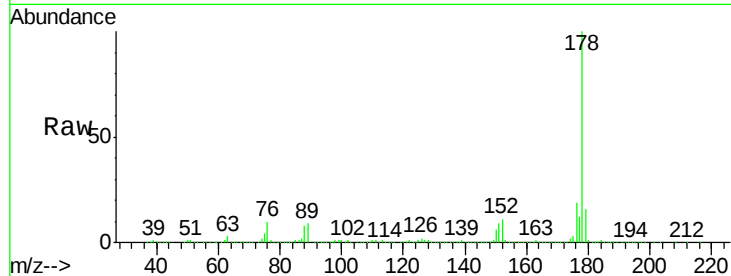


#70
Phenanthrene
Concen: 61.710 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

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

Manual Integrations
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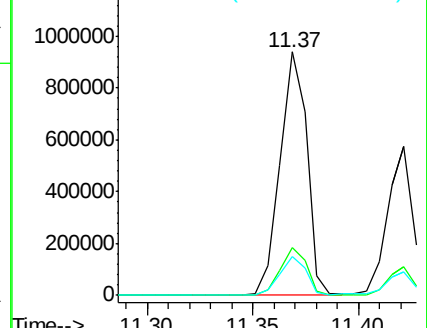


Abundance

Ion 178.00 (177.70 to 178.70): E

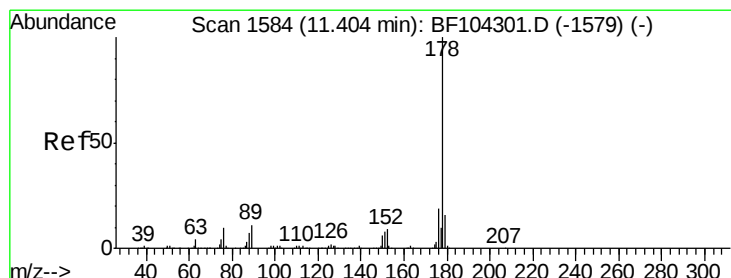
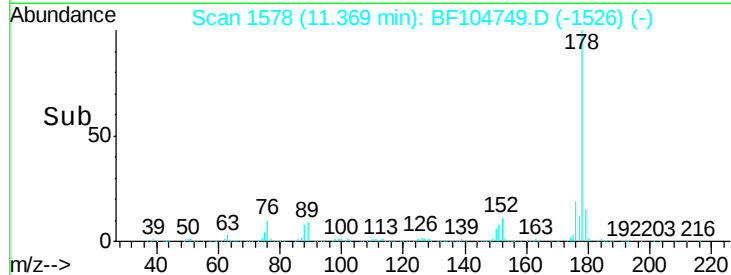
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



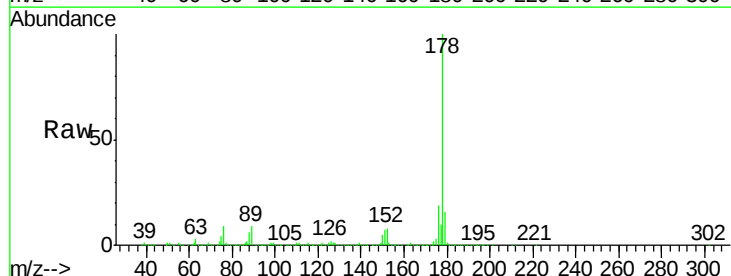
Sohil

4/24/2018 3:49:34 PM



#71
Anthracene
Concen: 34.769 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.6	12.6	19.0

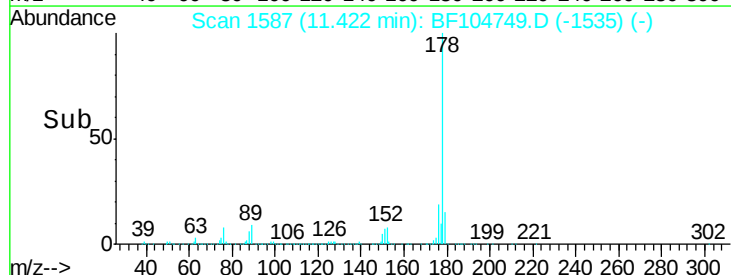
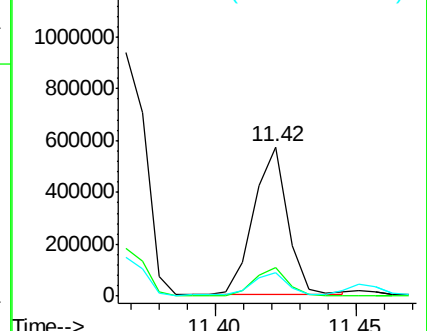


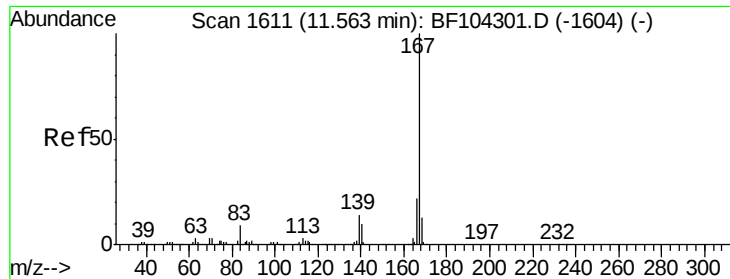
Abundance

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



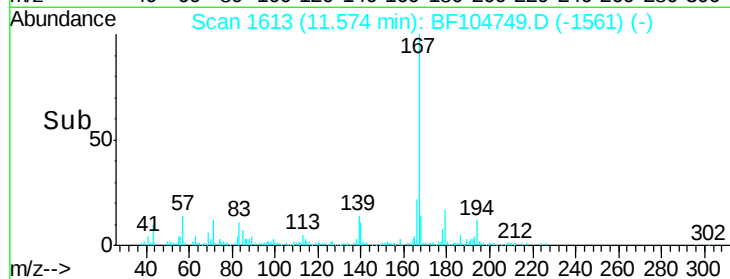
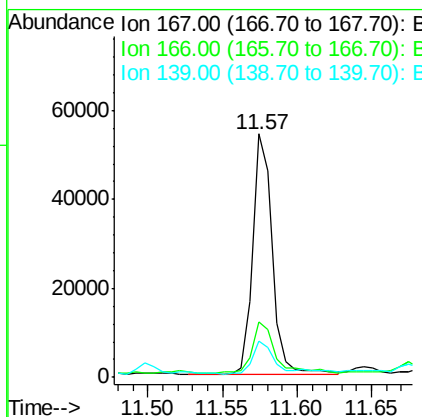
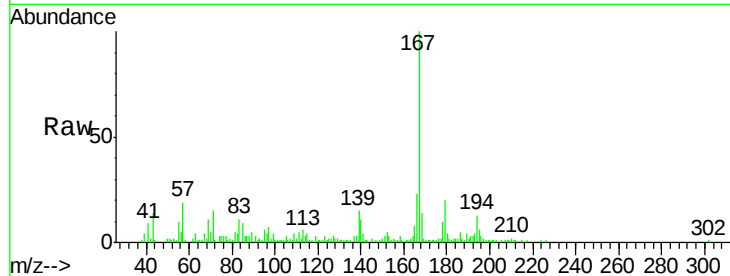


#72
 Carbazole
 Concen: 3.675 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. 0.01 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-E-3.5

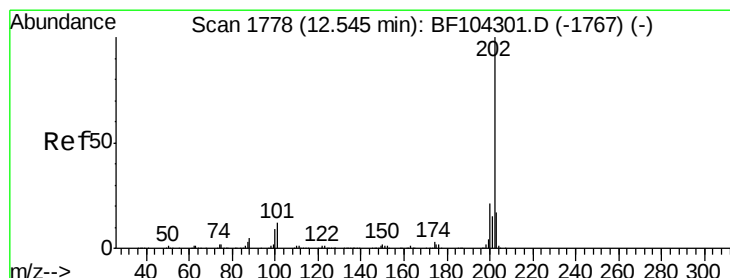
Tot Ion	Ratio	Lower	Upper
167	100		
166	23.0	17.6	26.4
139	14.7	10.9	16.3

Manual Integrations
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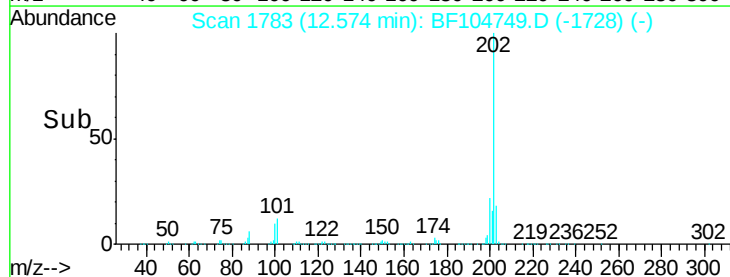
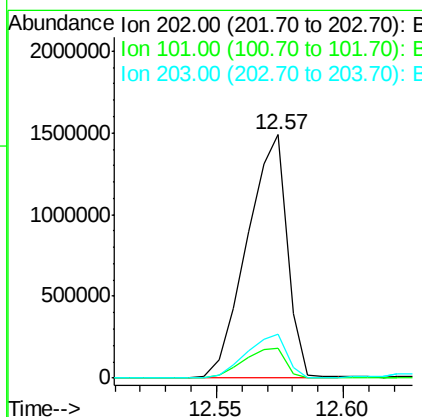
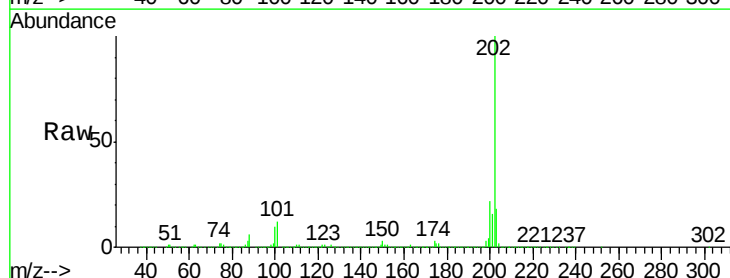
Sohil

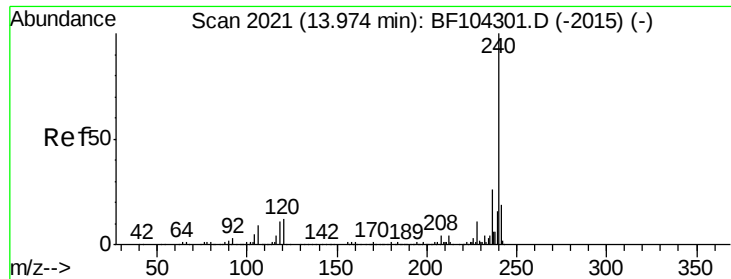
4/24/2018 3:49:34 PM



#74
 Fluoranthene
 Concen: 116.401 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.02 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.02 min

Lab File: BF104749.D

Acq: 24 Apr 2018 10:56

Instrument :

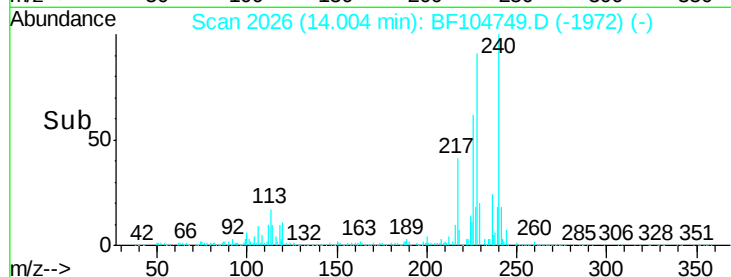
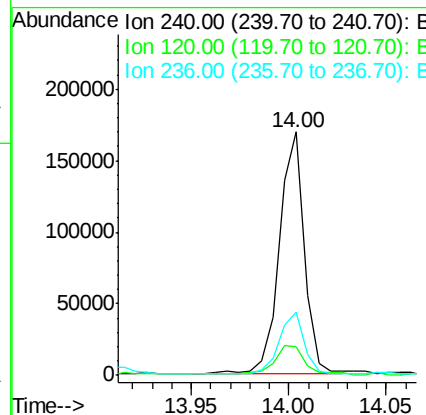
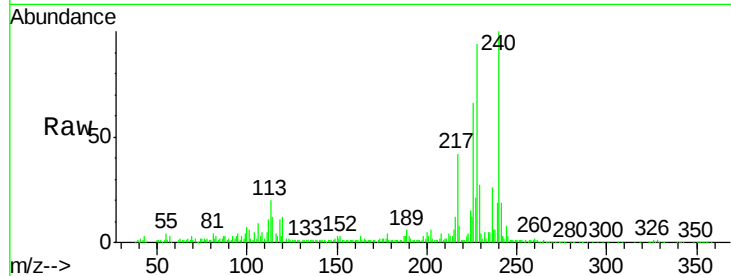
BNA_F

ClientSampleId :

A2-SB02-E-3.5

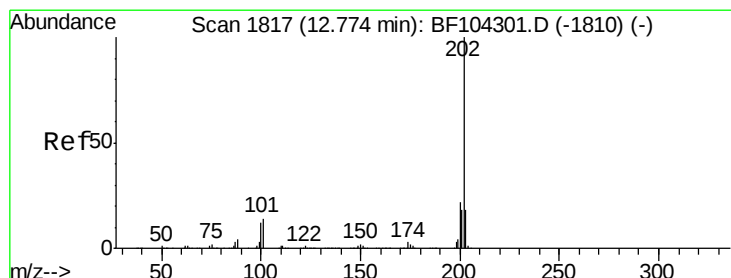
Tot Ion:	240	Resp:	149093
Ion Ratio	Lower	Upper	
240	100		
120	11.8	9.5	14.3
236	26.0	20.7	31.1

Manual Integrations
APPROVED



Sohil

4/24/2018 3:49:34 PM



#77

Pyrene

Concen: 145.146 ng

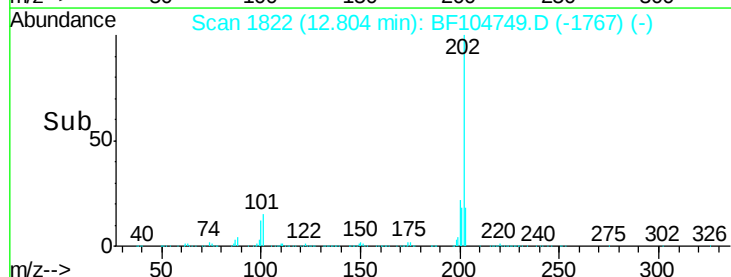
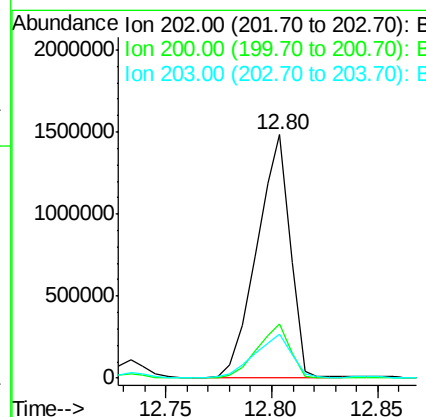
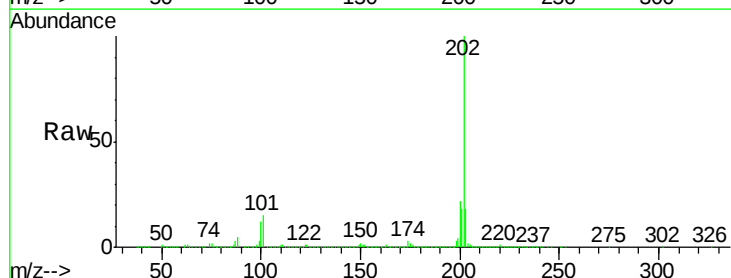
RT: 12.80 min Scan# 1822

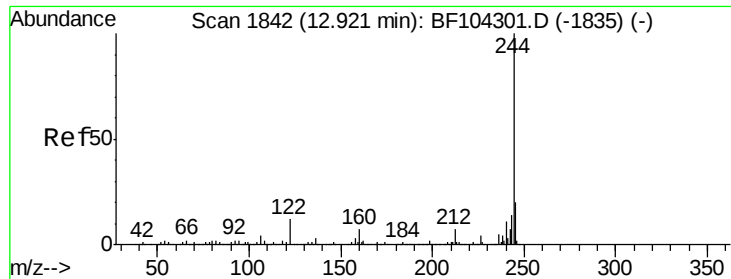
Delta R.T. 0.02 min

Lab File: BF104749.D

Acq: 24 Apr 2018 10:56

Tgt Ion:	202	Resp:	1604045
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	18.2	14.3	21.5



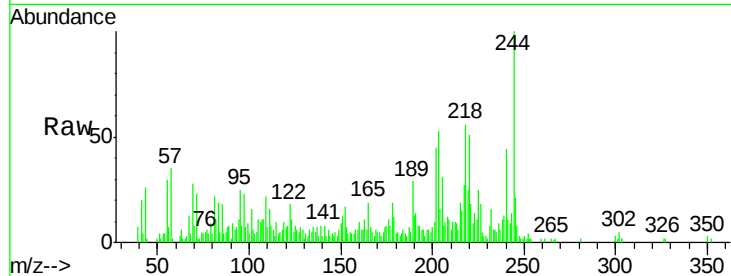


#78
 Terphenyl-d14
 Concen: 3.012 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. 0.01 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

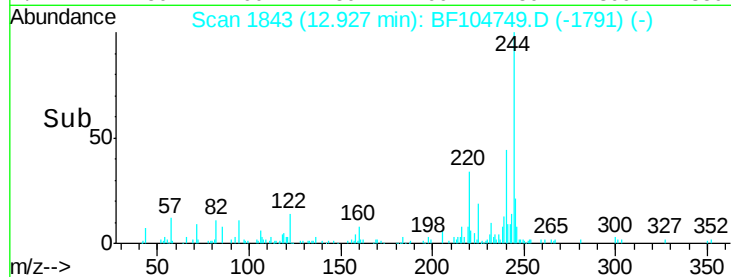
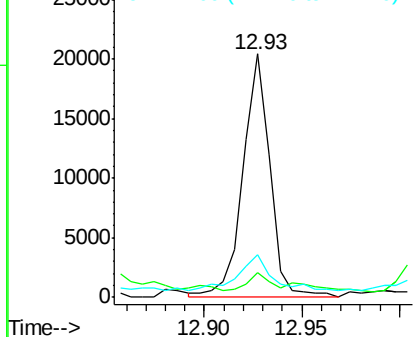
Instrument :
 BNA_F
 ClientSampled :
 A2-SB02-E-3.5

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.4	5.4	8.0#
122	17.7	11.0	16.4#

Manual Integrations
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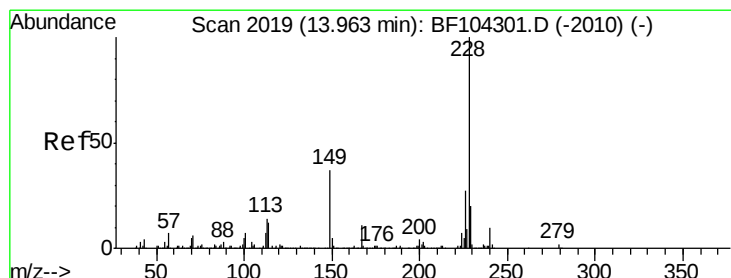


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E



Sohil

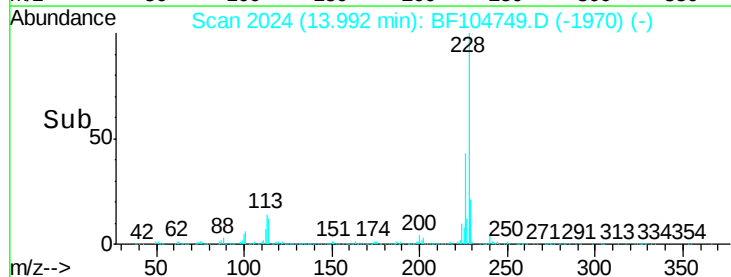
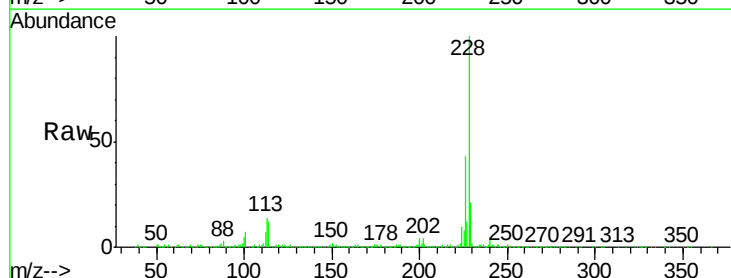
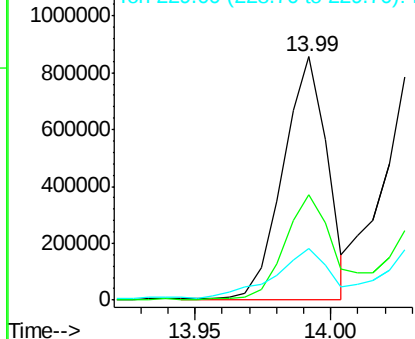
4/24/2018 3:49:34 PM

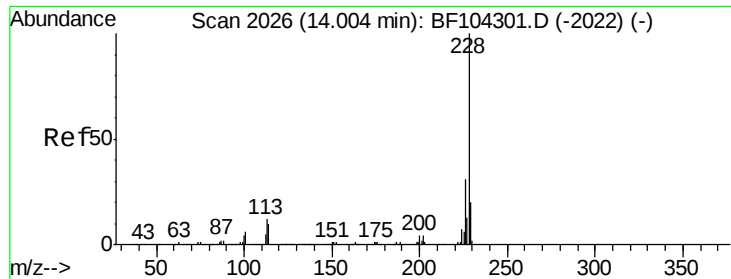


#80
 Benzo(a)anthracene
 Concen: 108.967 ng m
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.02 min
 Lab File: BF104749.D
 Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.4	22.6	33.8#
229	21.4	15.8	23.6

Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E



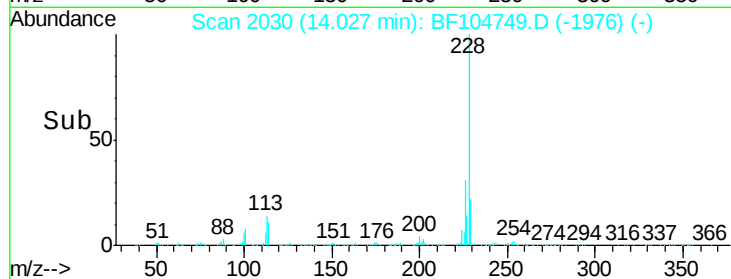
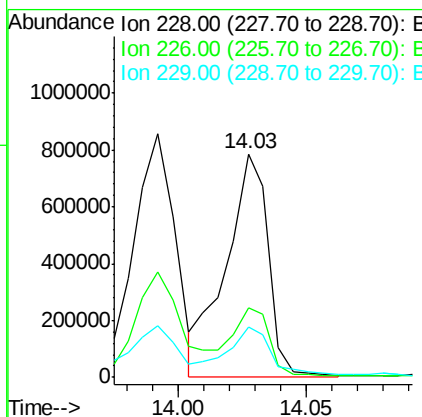
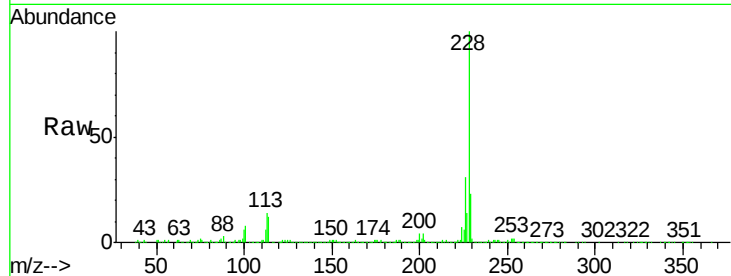


#82
Chrysene
Concen: 100.157 ng m
RT: 14.03 min Scan# 2030
Delta R.T. 0.02 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

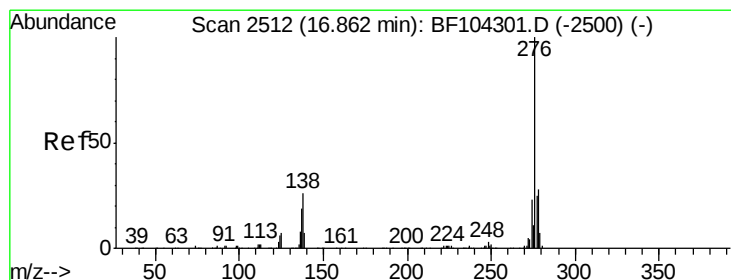
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	22.7	16.2	24.4

Manual Integrations
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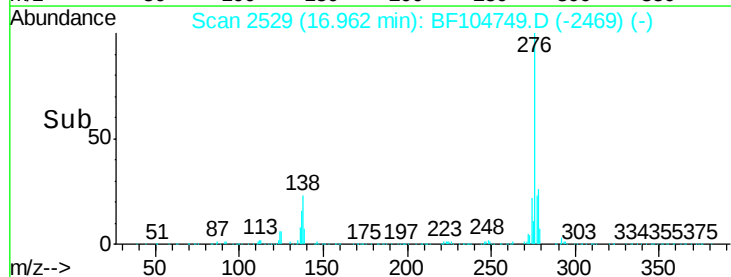
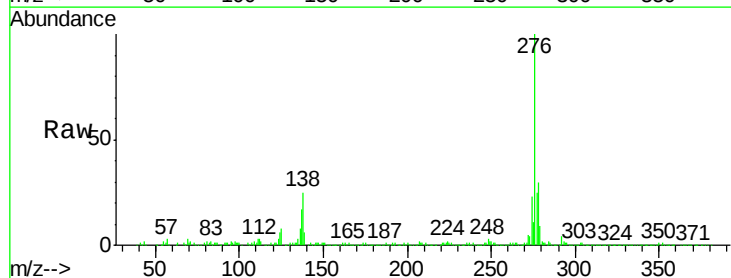
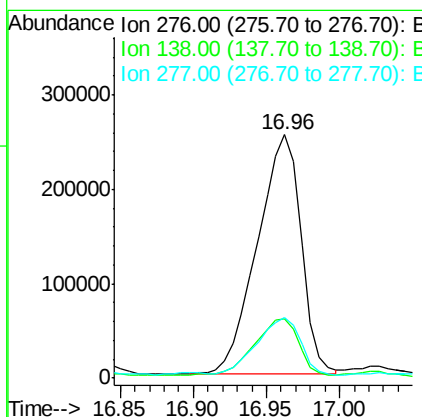
Sohil

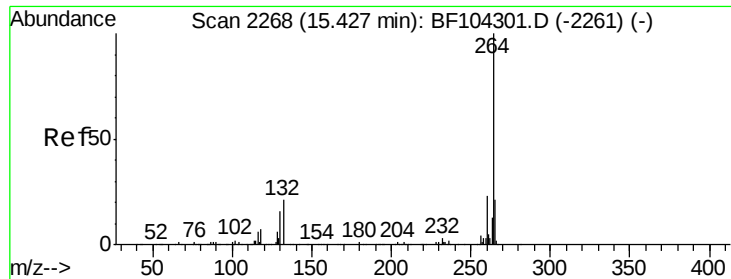
4/24/2018 3:49:34 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 67.828 ng m
RT: 16.96 min Scan# 2529
Delta R.T. 0.05 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.9	25.0	37.6#
277	0.8	20.1	30.1#



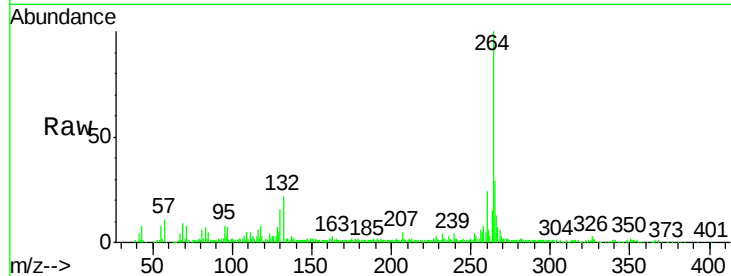


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.03 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

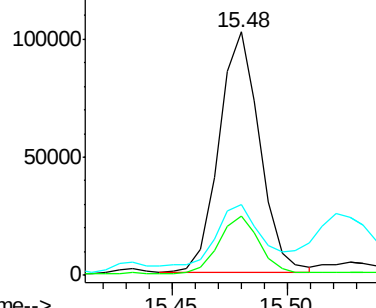
Instrument :
BNA_F
ClientSampled :
A2-SB02-E-3.5

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

Manual Integrations
APPROVED

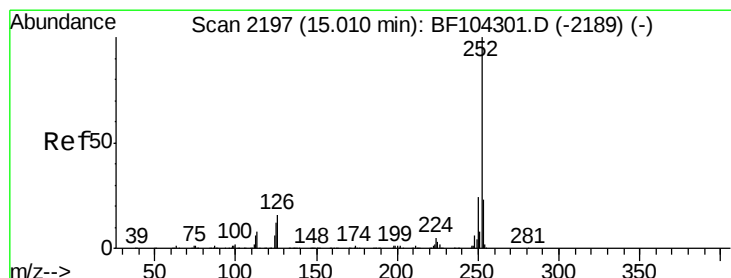
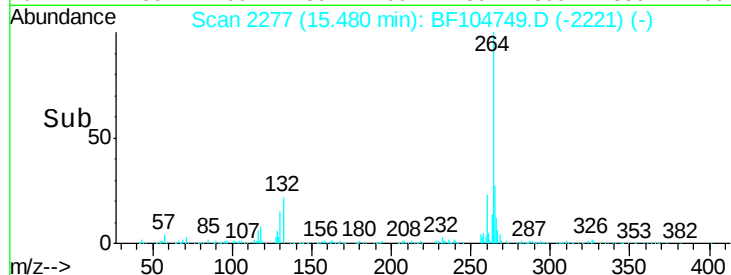


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



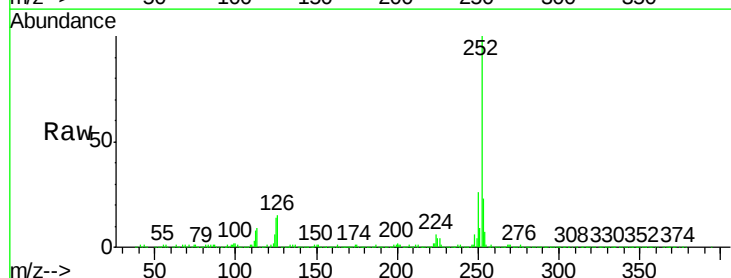
Sohil

4/24/2018 3:49:34 PM

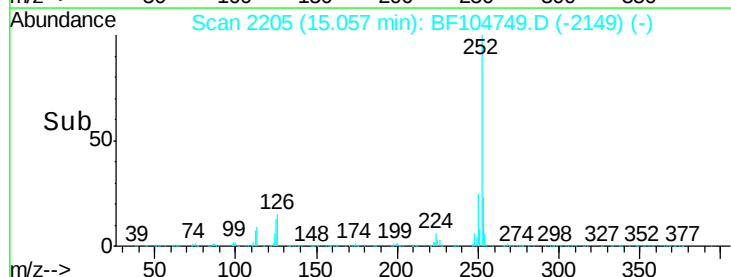
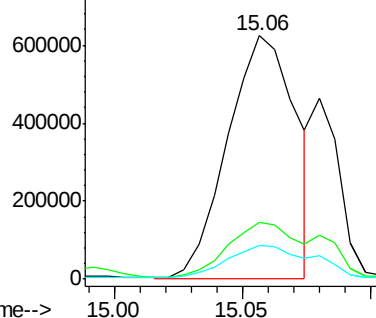


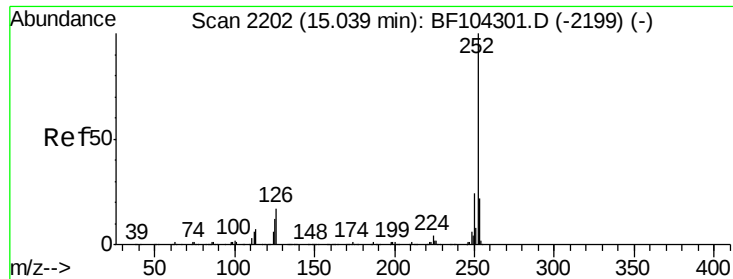
#87
Benzo(b)fluoranthene
Concen: 147.666 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.03 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	13.8	9.0	13.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



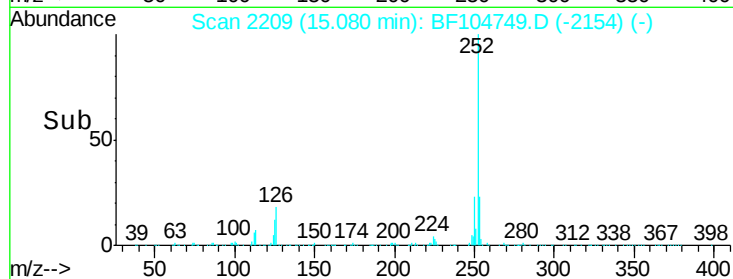
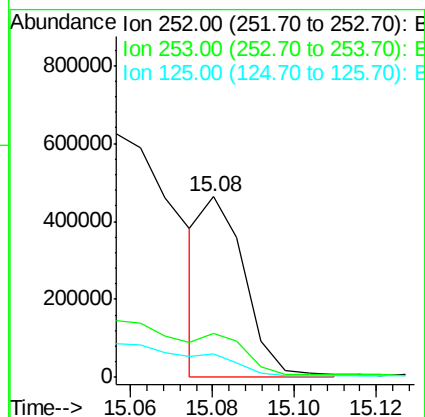
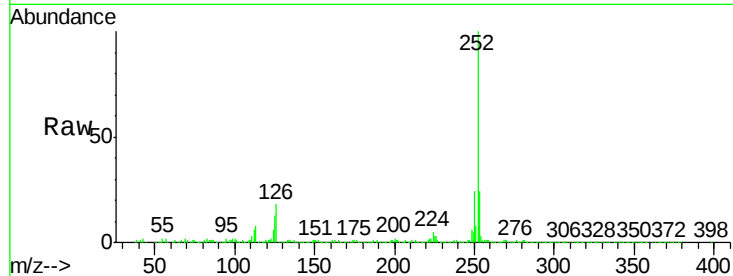


#88
Benzo(k)fluoranthene
Concen: 45.045 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.02 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

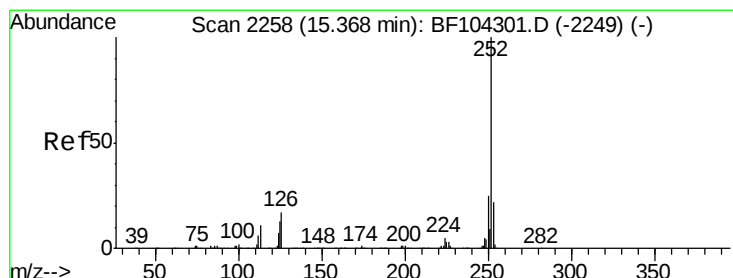
Tot Ion:	252	Resp:	333696
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.9	26.9
125	12.9	10.2	15.2

Manual Integrations
APPROVED



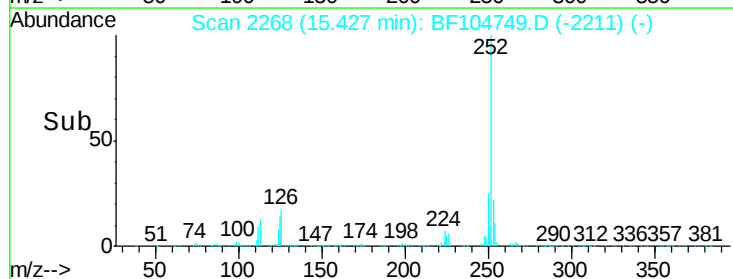
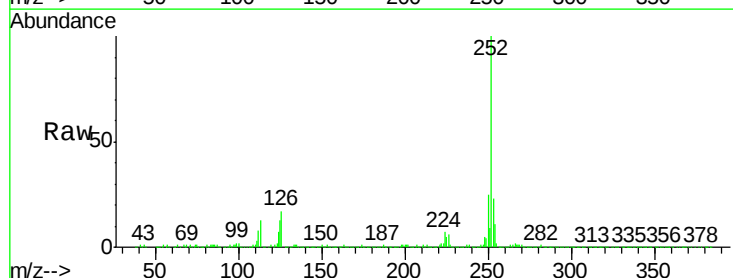
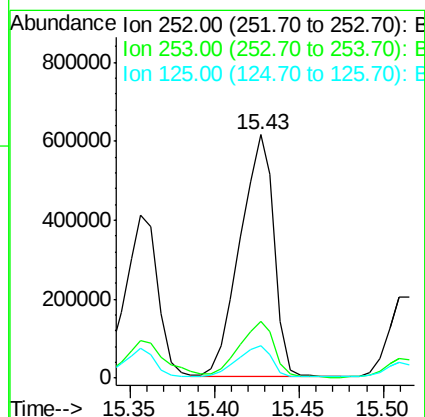
Sohil

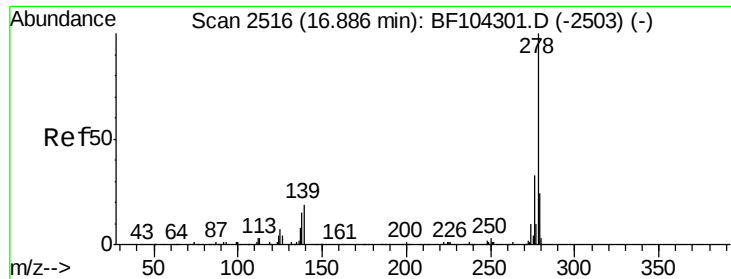
4/24/2018 3:49:34 PM



#89
Benzo(a)pyrene
Concen: 122.766 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.04 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Tgt Ion:	252	Resp:	861930
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.1	25.7
125	13.4	9.8	14.6



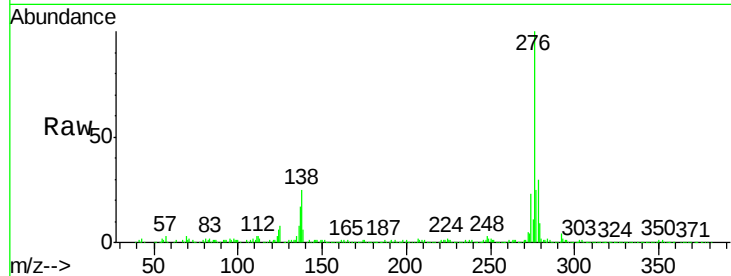


#90
Dibenzo(a,h)anthracene
Concen: 25.995 ng/mL
RT: 16.96 min Scan# 2529
Delta R.T. 0.04 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

Instrument :
BNA_F
ClientSampleId :
A2-SB02-E-3.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.6	15.9	23.9
279	29.6	19.0	28.4

Manual Integrations
APPROVED

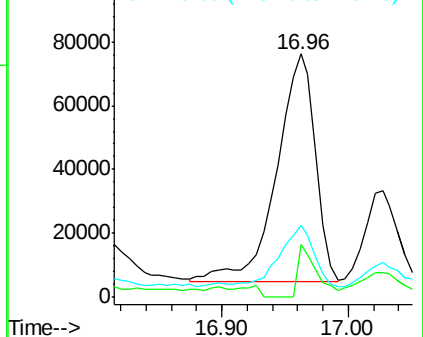


Abundance

Ion 278.00 (277.70 to 278.70): E

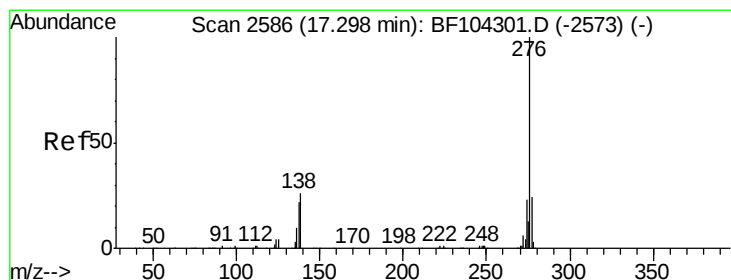
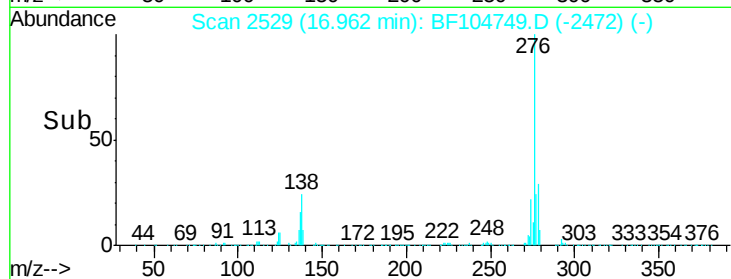
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Sohil

4/24/2018 3:49:34 PM



#91
Benzo(g,h,i)perylene
Concen: 93.698 ng/mL
RT: 17.42 min Scan# 2606
Delta R.T. 0.06 min
Lab File: BF104749.D
Acq: 24 Apr 2018 10:56

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

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

