

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104748.D
 Acq On : 24 Apr 2018 10:29
 Operator : JU/SJ
 Sample : J2497-01DL 20X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5DL

Manual Integrations
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 4/24/2018 3:49:32 PM

Quant Time: Apr 24 11:40:10 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	102155	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	407140	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	178712	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	281235	20.00	ng	0.00
75) Chrysene-d12	13.99	240	169210	20.00	ng	0.00
86) Perylene-d12	15.47	264	132544	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	23777	3.56	ng	0.01
7) Phenol-d6	6.45	99	31212	3.80	ng	0.00
23) Nitrobenzene-d5	7.37	82	17066	2.74	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	6034	3.25	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	42557	3.76	ng	0.00
78) Terphenyl-d14	12.93	244	32714	4.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	479919	23.672	ng	100
48) Acenaphthylene	9.71	152	79929	4.296	ng	98
51) Acenaphthene	9.88	154	28590	2.519	ng	97
54) Dibenzofuran	10.06	168	36369	2.299	ng	98
57) Fluorene	10.40	166	82715	7.183	ng	99
70) Phenanthrene	11.37	178	422943	27.005	ng	98
71) Anthracene	11.42	178	112279	7.053	ng	99
72) Carbazole	11.57	167	39077	2.512	ng	99
74) Fluoranthene	12.56	202	378085	23.105	ng	95
77) Pyrene	12.79	202	374250	29.839	ng	99
80) Benzo(a)anthracene	13.98	228	142074m	14.055	ng	
82) Chrysene	14.02	228	124713	12.011	ng	97
85) Indeno(1,2,3-cd)pyrene	16.94	276	57969	6.572	ng	# 93
87) Benzo(b)fluoranthene	15.04	252	133631m	15.963	ng	
88) Benzo(k)fluoranthene	15.07	252	33336m	4.218	ng	
89) Benzo(a)pyrene	15.40	252	88101	11.762	ng	# 92
90) Dibenzo(a,h)anthracene	16.94	278	12678	2.061	ng	# 77
91) Benzo(g,h,i)perylene	17.39	276	63115	10.590	ng	98

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

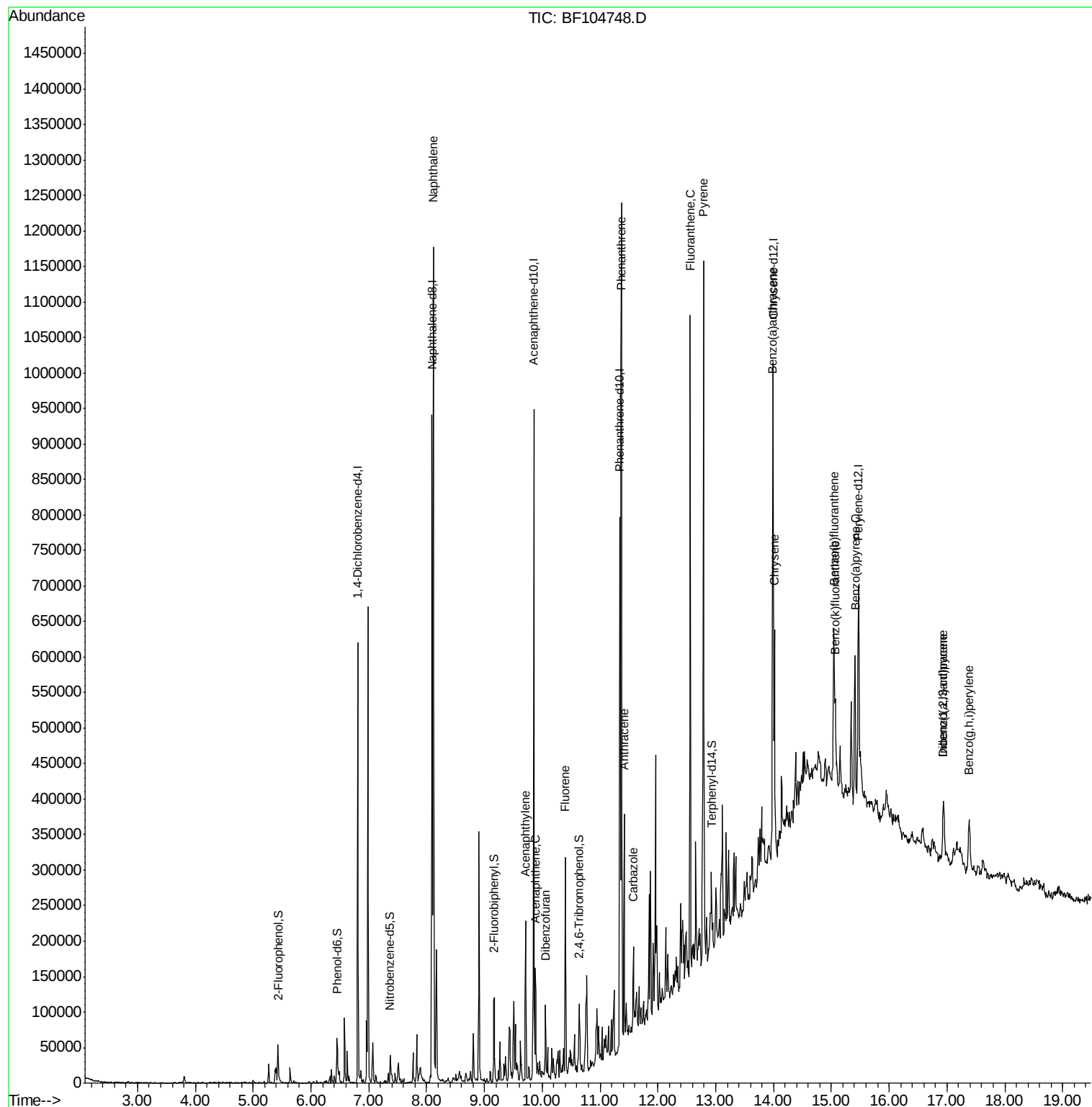
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
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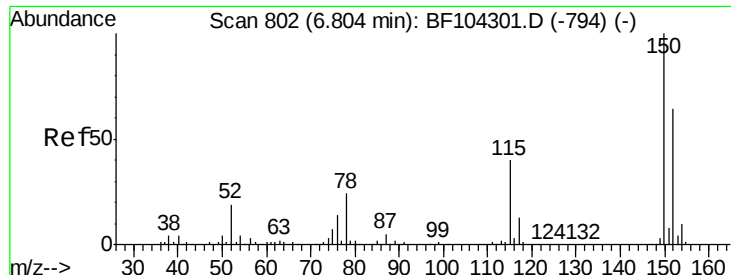
Instrument :
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#1

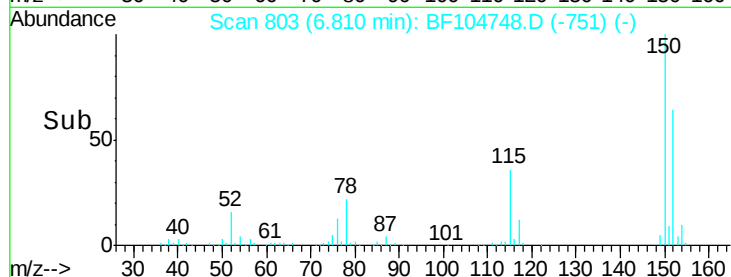
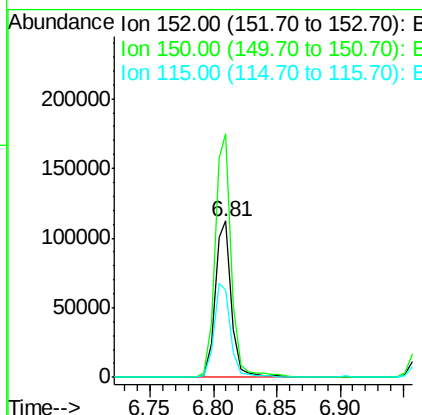
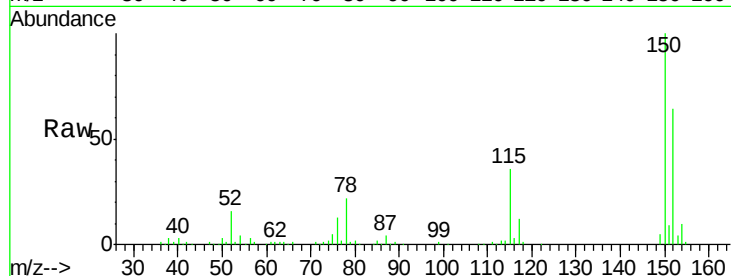
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	56.5	50.1	75.1

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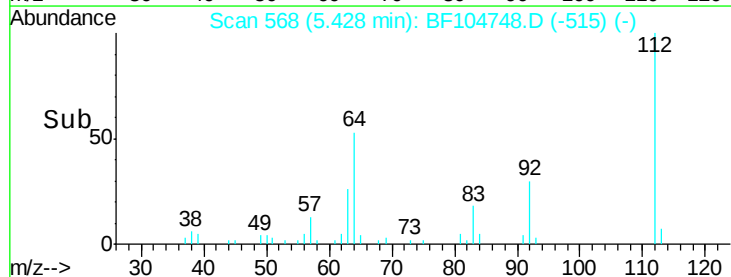
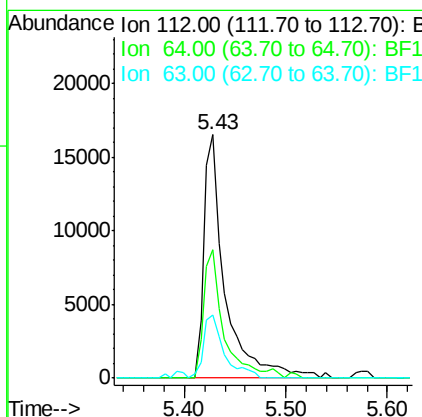
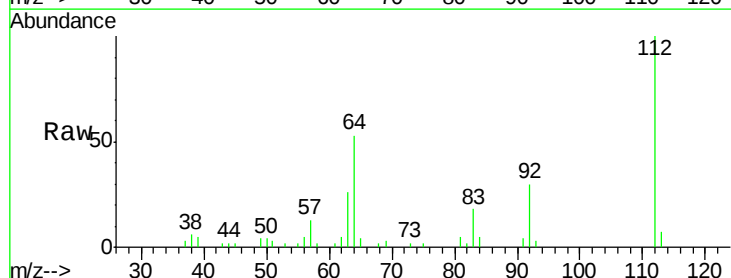
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#5

2-Fluorophenol
Concen: 3.559 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	47.9	71.9
63	26.1	23.7	35.5





#7

Phenol-d6

Concen: 3.802 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

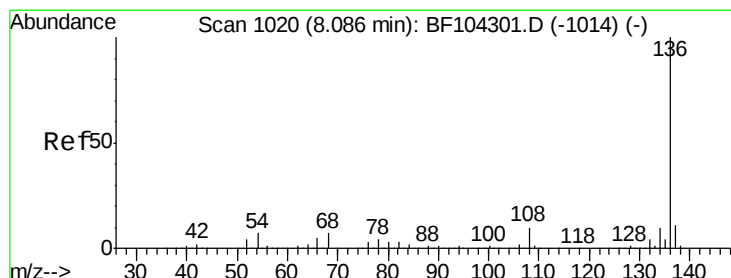
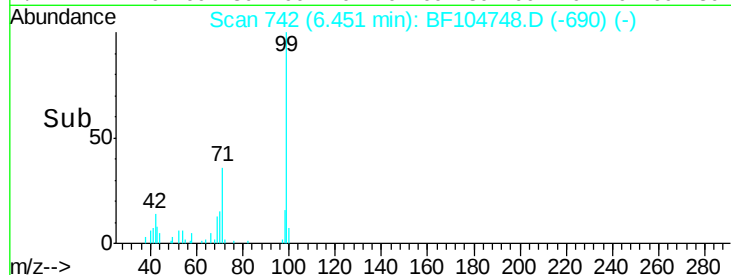
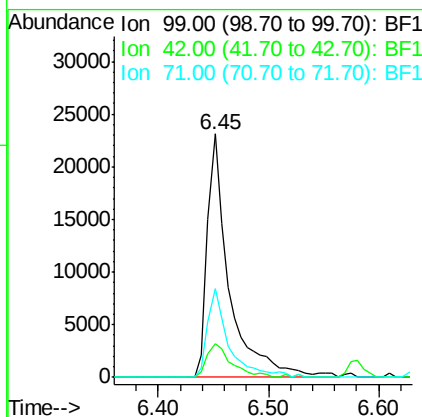
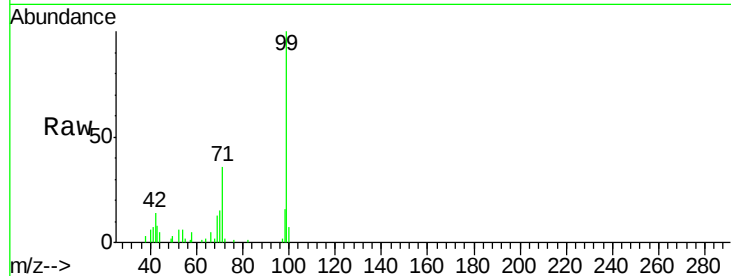
ClientSampleId :

A2-SB01-BOT-4.5DL

Tot Ion:	99	Resp:	31212
Ion Ratio	Lower	Upper	
99	100		
42	14.0	14.5	21.7#
71	36.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

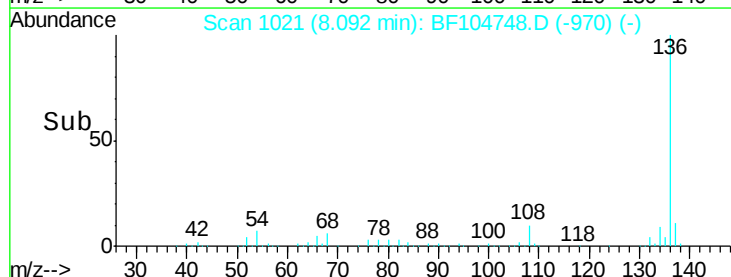
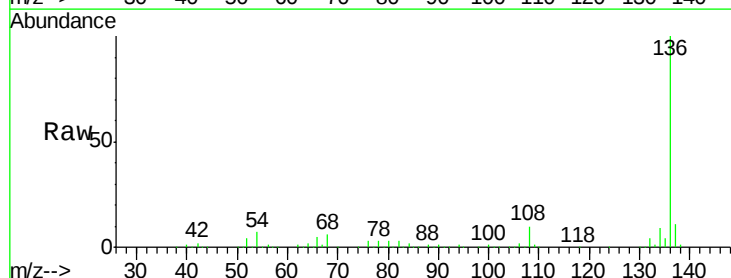
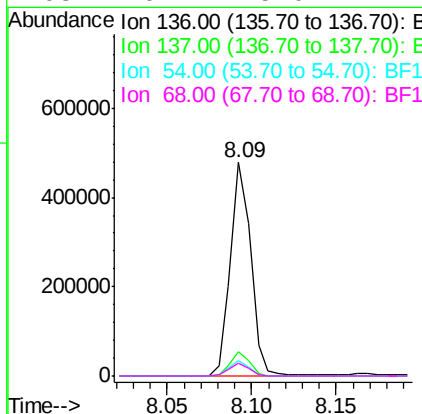
RT: 8.09 min Scan# 1021

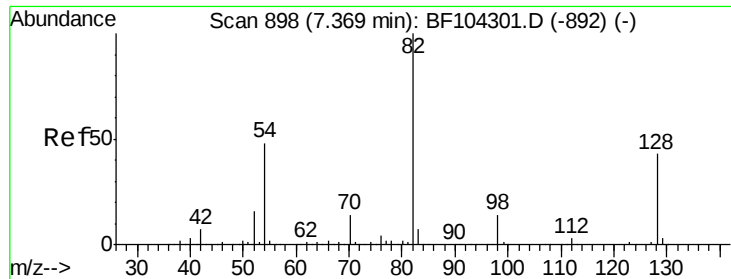
Delta R.T. -0.00 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Tgt Ion:	136	Resp:	407140
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	7.0	6.6	9.8
68	6.2	5.0	7.4





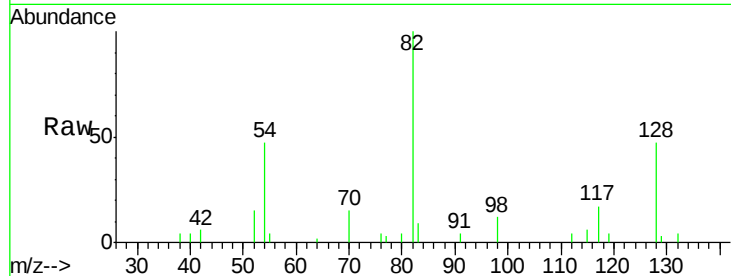
#23
 Nitrobenzene-d5
 Concen: 2.737 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5DL

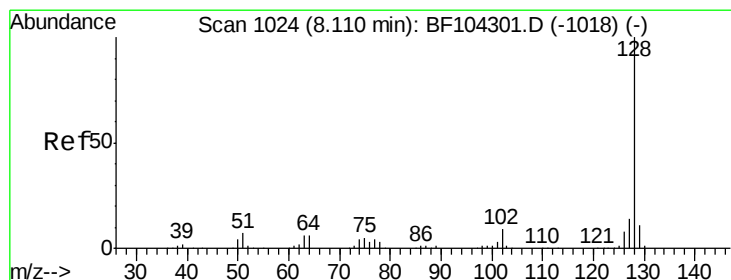
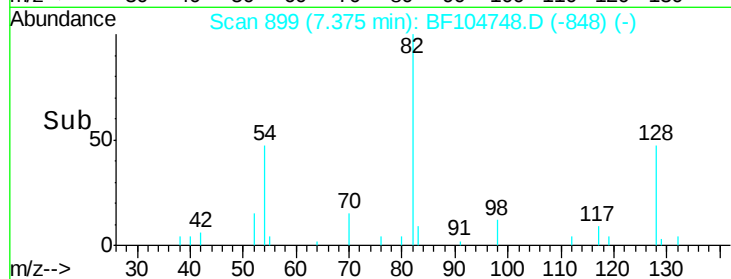
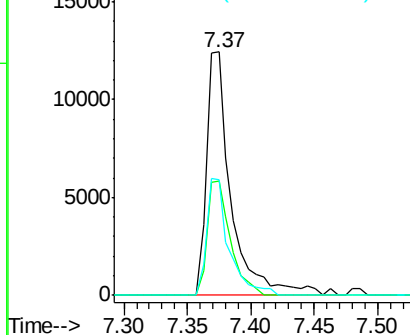
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.8	36.1	54.1
54	47.3	41.4	62.2

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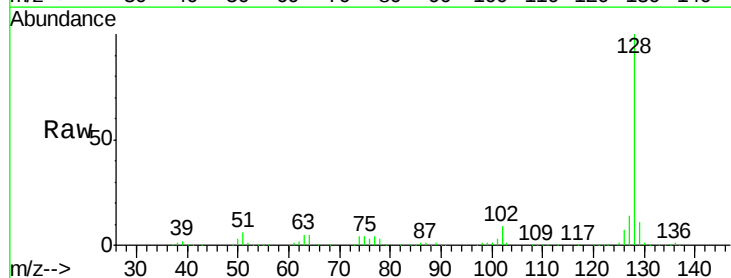


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

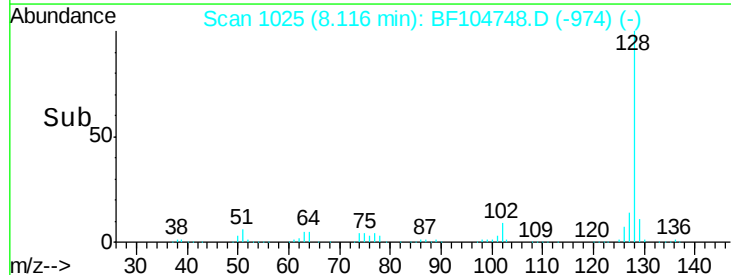
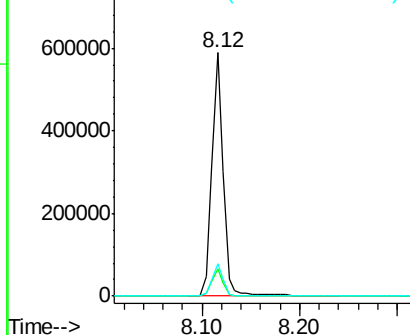


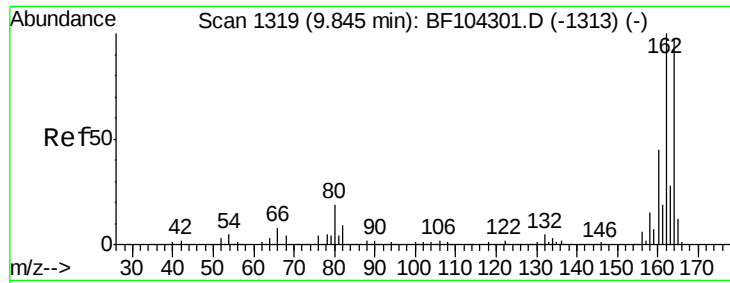
#31
 Naphthalene
 Concen: 23.672 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.00 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.6	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





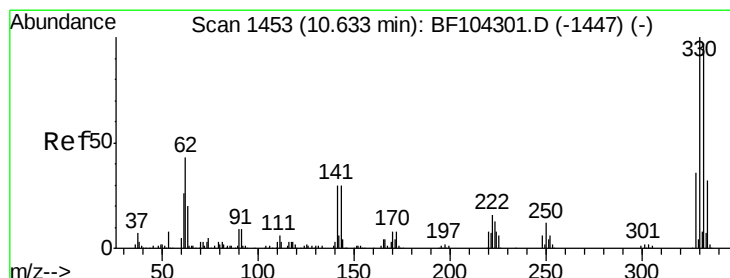
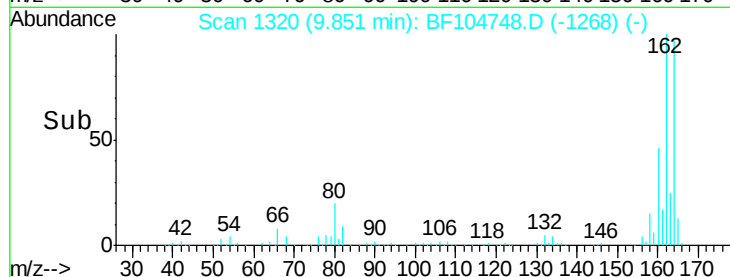
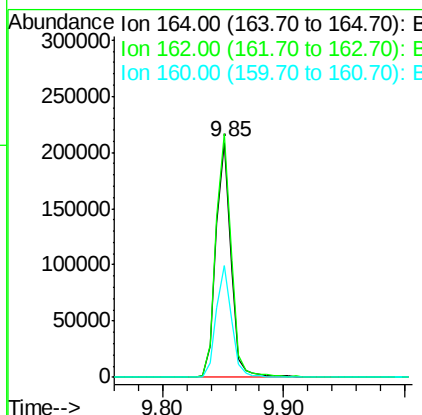
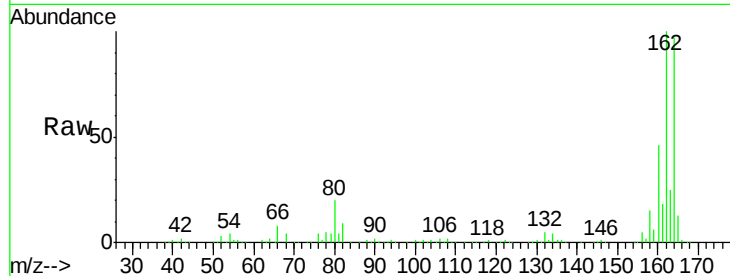
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.01 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	47.7	38.3	57.5

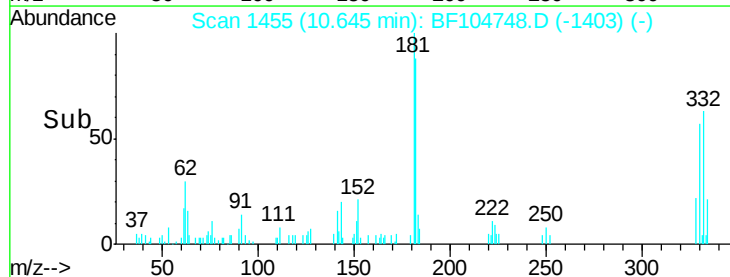
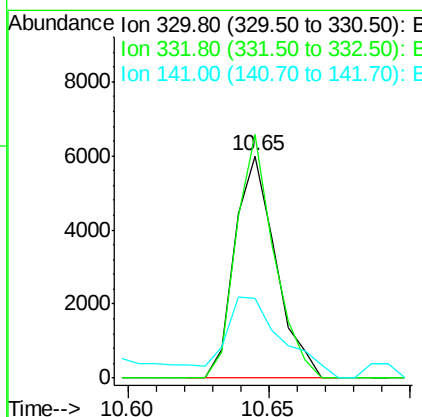
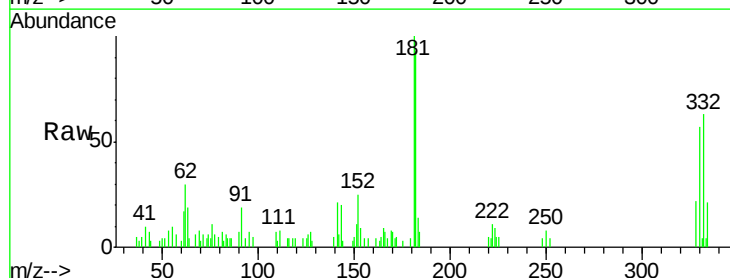
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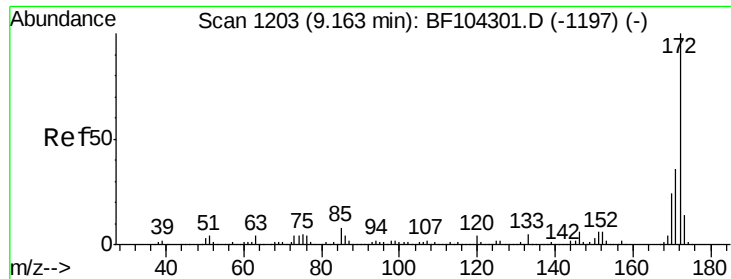
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#41
 2,4,6-Tribromophenol
 Concen: 3.255 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.1	77.0	115.6
141	51.2	29.9	44.9#





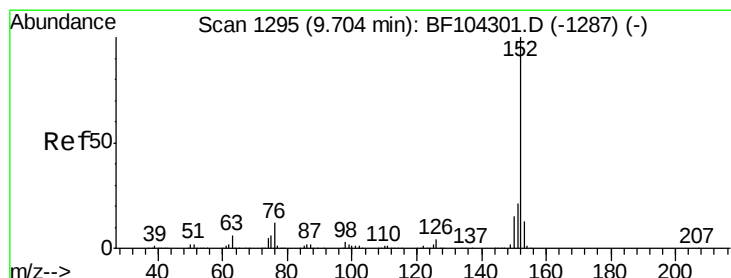
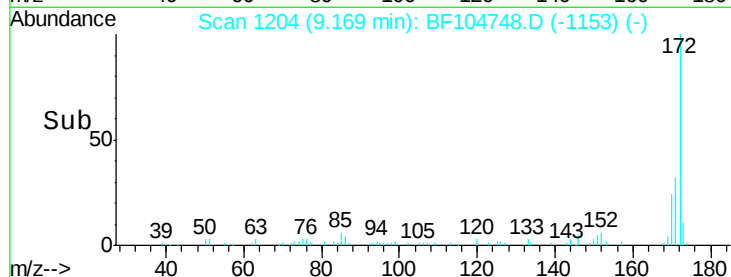
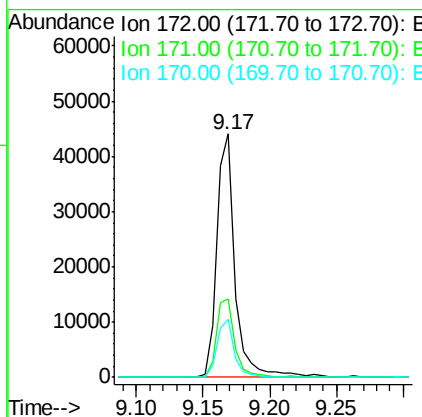
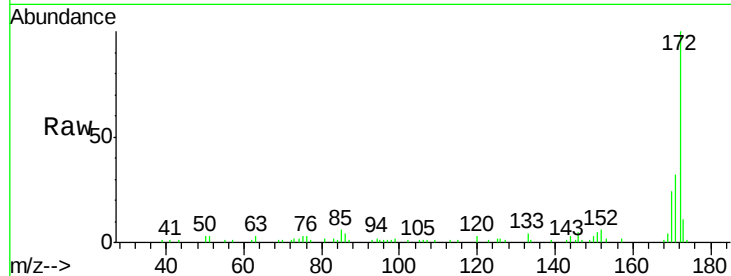
#44
 2-Fluorobiphenyl
 Concen: 3.762 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	32.0	29.7	44.5
170	23.8	19.6	29.4

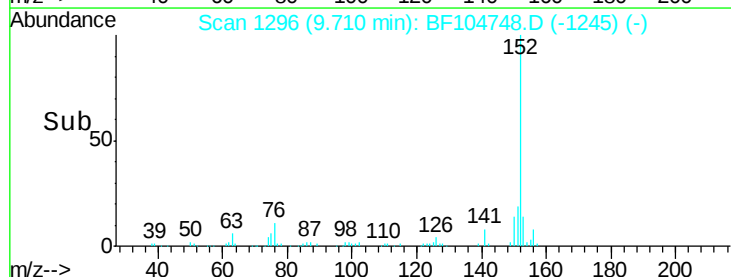
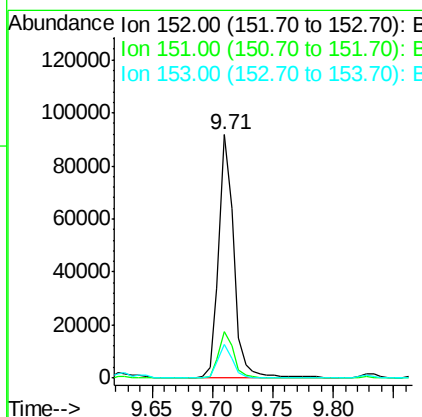
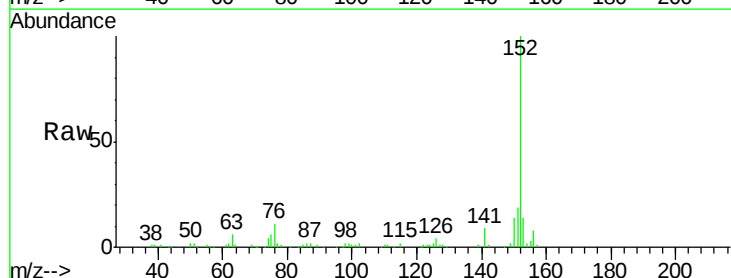
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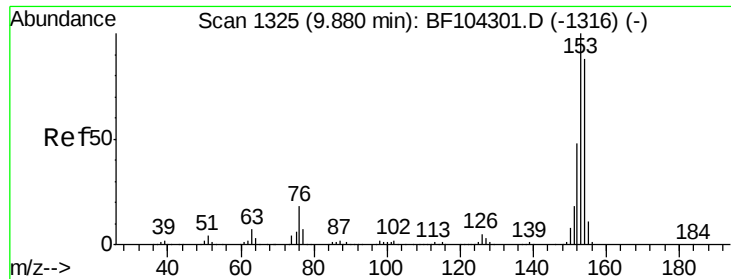
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#48
 Acenaphthylene
 Concen: 4.296 ng
 RT: 9.71 min Scan# 1296
 Delta R.T. -0.00 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.3	24.5
153	14.0	10.7	16.1





#51

Acenaphthene

Concen: 2.519 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

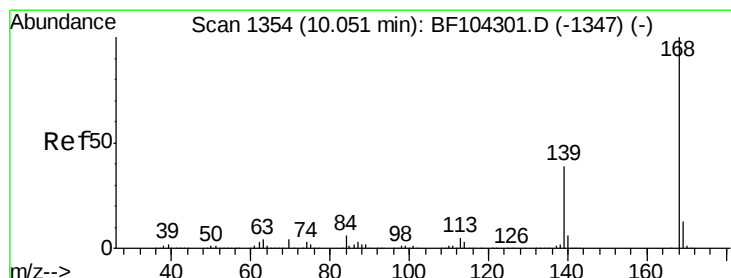
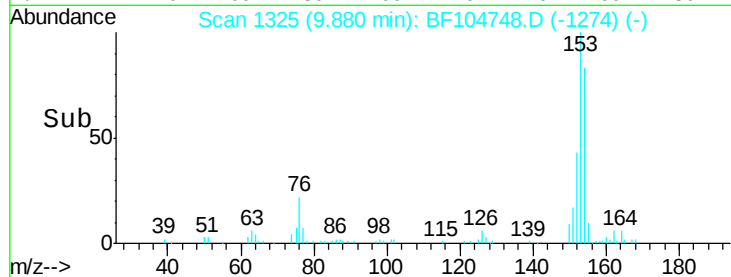
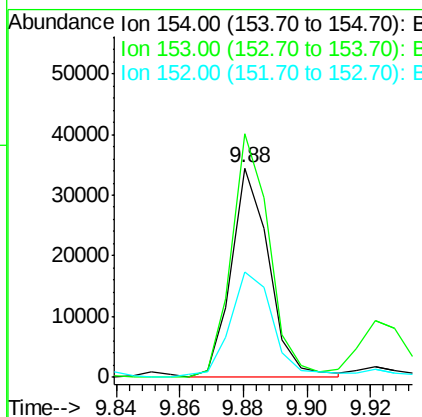
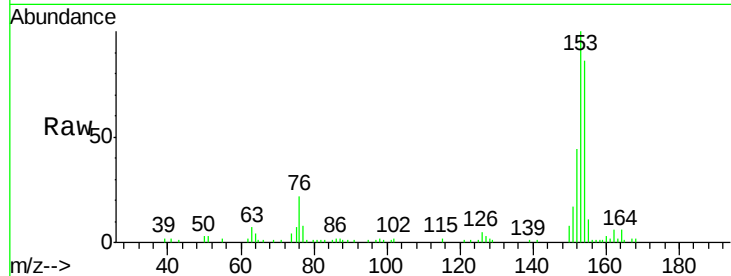
ClientSampleId :

A2-SB01-BOT-4.5DL

Tot Ion:	154	Resp:	28590
Ion Ratio	Lower	Upper	
154	100		
153	116.3	91.2	136.8
152	50.6	43.8	65.8

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#54

Dibenzofuran

Concen: 2.299 ng

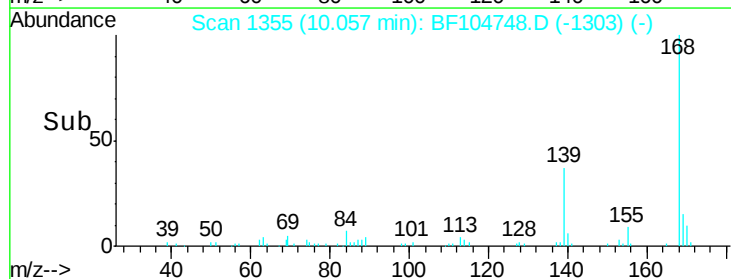
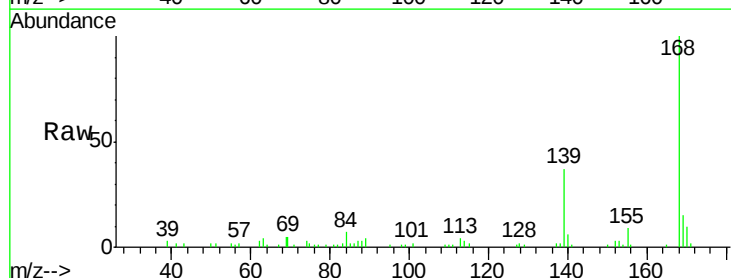
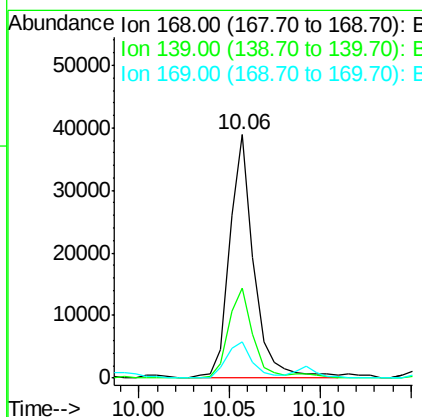
RT: 10.06 min Scan# 1355

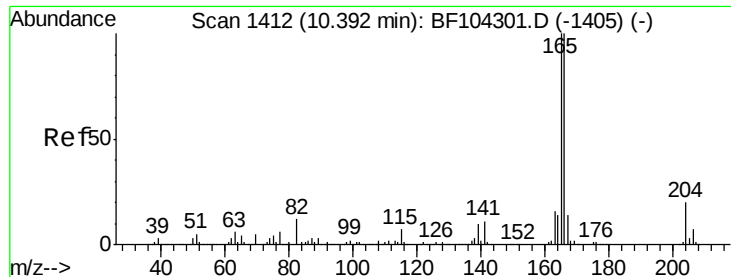
Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Tgt Ion:	168	Resp:	36369
Ion Ratio	Lower	Upper	
168	100		
139	37.0	30.1	45.1
169	14.9	10.9	16.3





#57

Fluorene

Concen: 7.183 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.00 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

ClientSampleId :

A2-SB01-BOT-4.5DL

Tot Ion:166 Resp: 82715

Ion Ratio Lower Upper

166 100

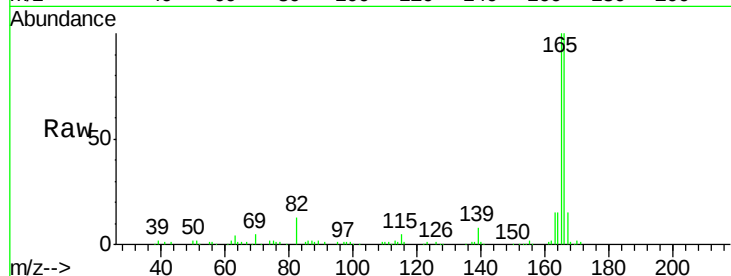
165 100.2 79.8 119.8

167 14.7 10.6 16.0

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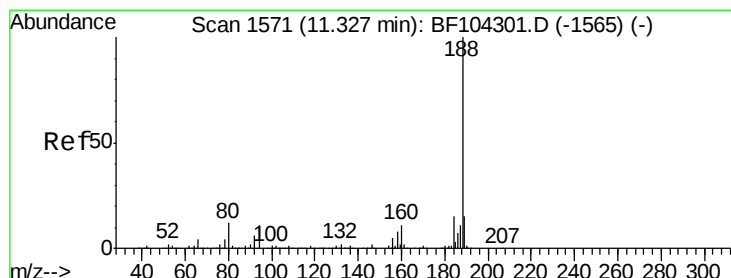
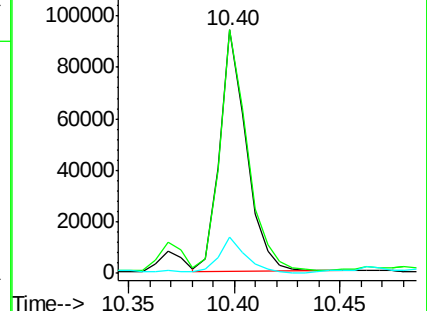
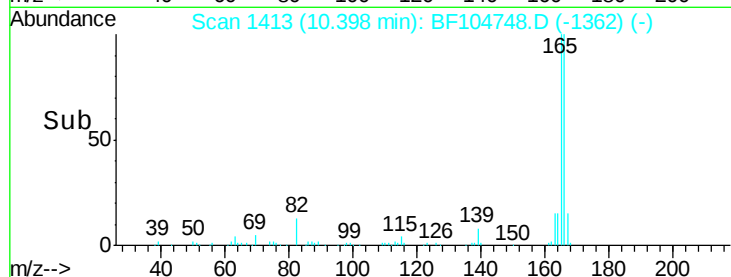
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

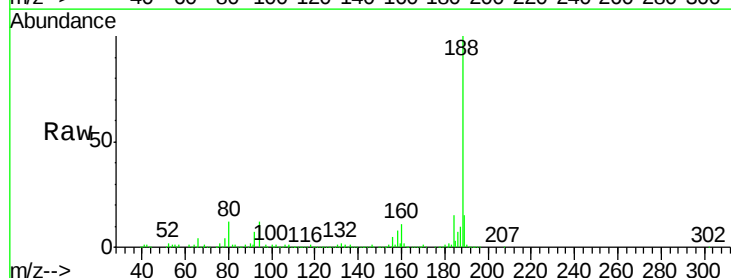
Tgt Ion:188 Resp: 281235

Ion Ratio Lower Upper

188 100

94 11.9 8.5 12.7

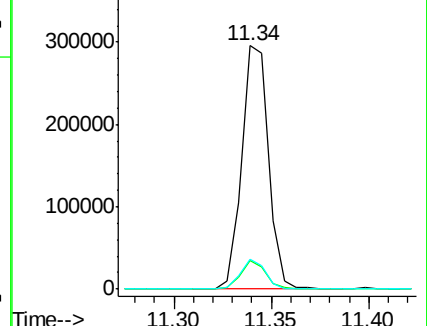
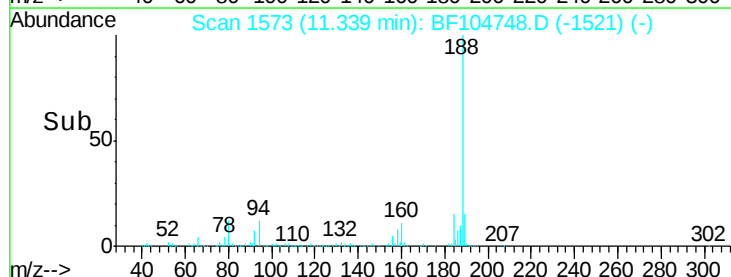
80 12.4 9.2 13.8

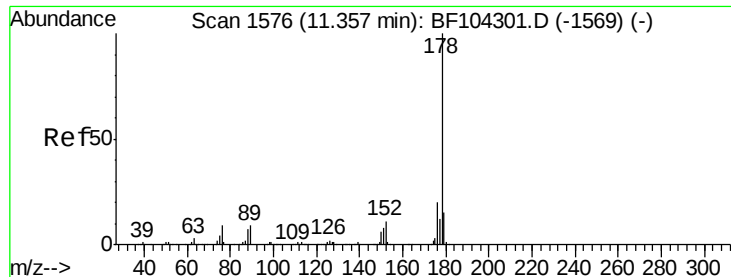


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 27.005 ng

RT: 11.37 min Scan# 1578

Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

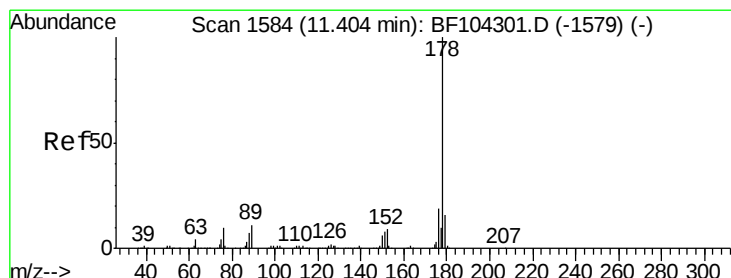
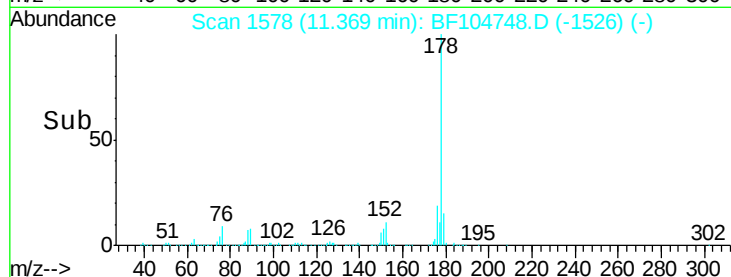
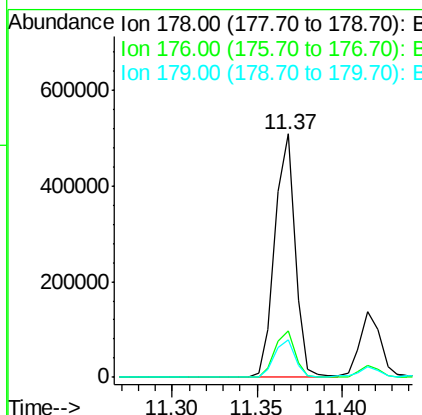
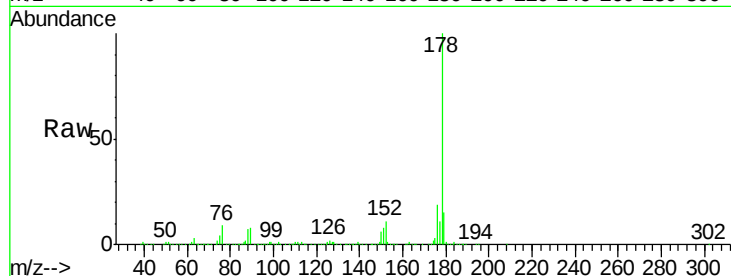
ClientSampleId :

A2-SB01-BOT-4.5DL

Tot Ion:178	Resp:	422943
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.8 23.8
179	15.3	13.0 19.6

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#71

Anthracene

Concen: 7.053 ng

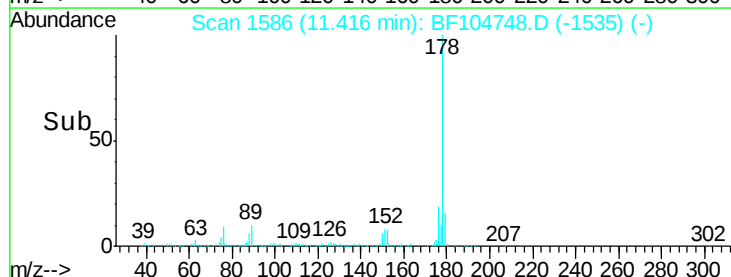
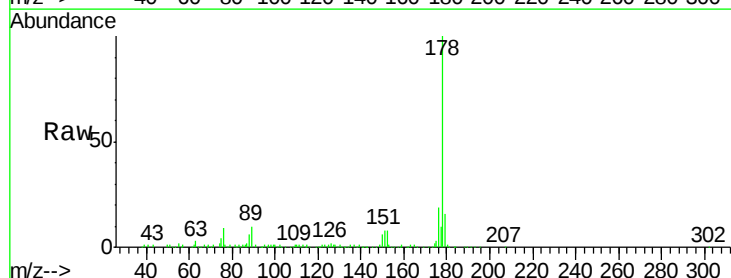
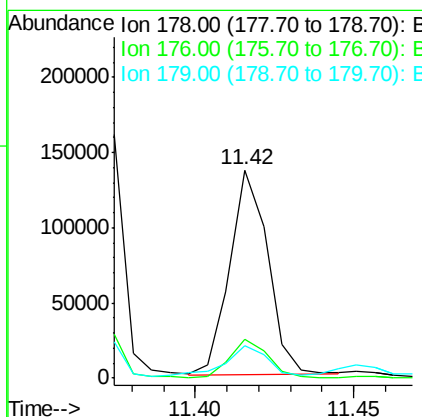
RT: 11.42 min Scan# 1586

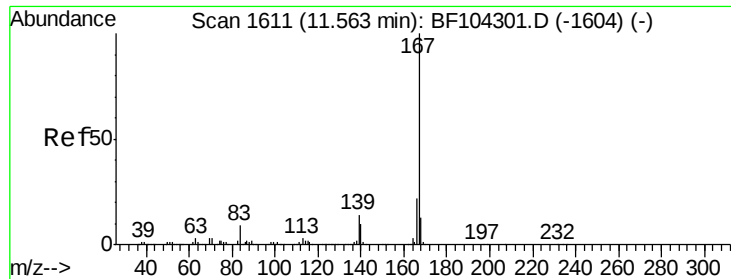
Delta R.T. -0.00 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Tgt Ion:178	Resp:	112279
Ion Ratio	Lower	Upper
178	100	
176	18.7	15.4 23.2
179	15.8	12.6 19.0





#72

Carbazole

Concen: 2.512 ng

RT: 11.57 min Scan# 1613

Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

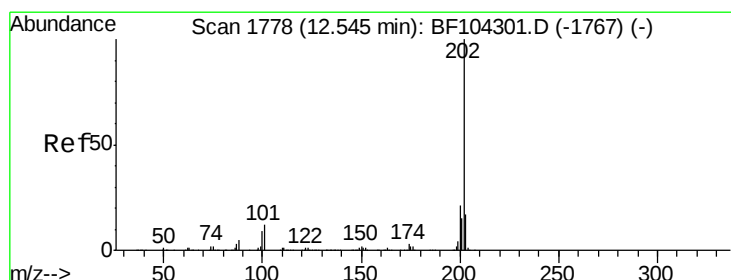
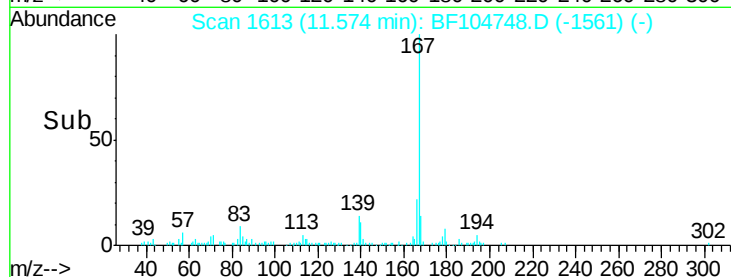
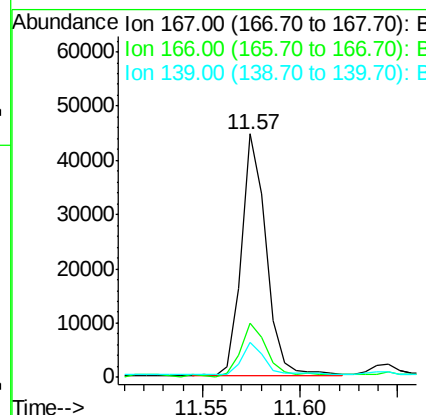
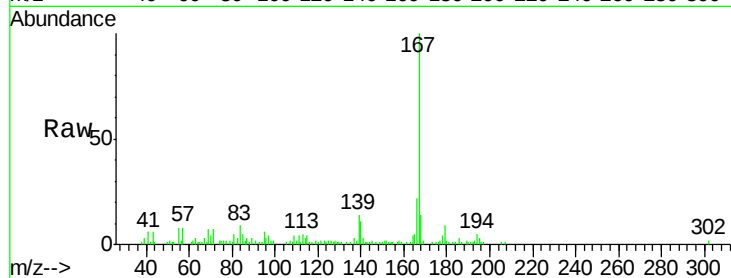
ClientSampleId :

A2-SB01-BOT-4.5DL

Tot Ion:	167	Resp:	39077
Ion Ratio	Lower	Upper	
167	100		
166	22.4	17.6	26.4
139	14.2	10.9	16.3

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#74

Fluoranthene

Concen: 23.105 ng

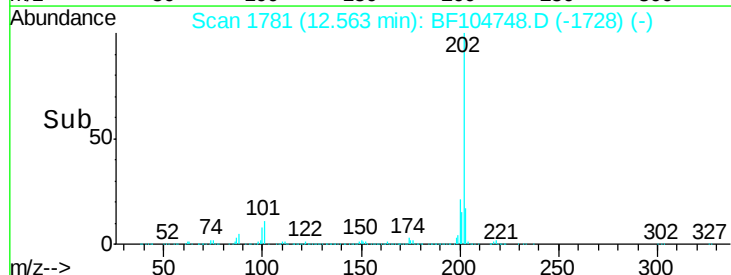
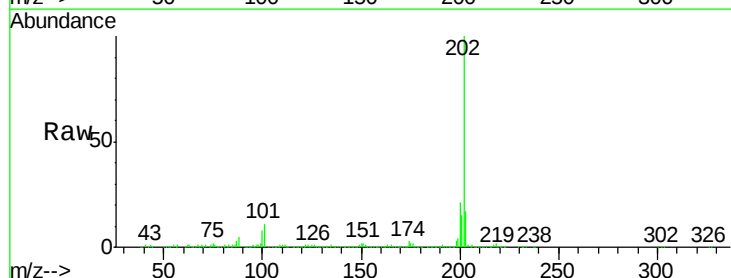
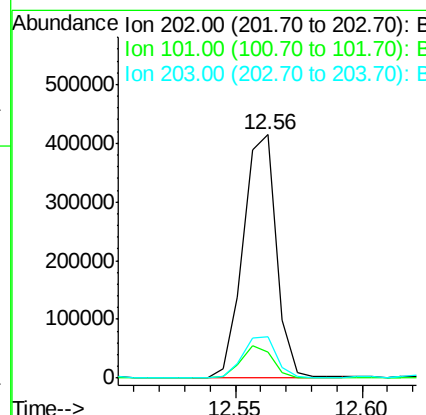
RT: 12.56 min Scan# 1781

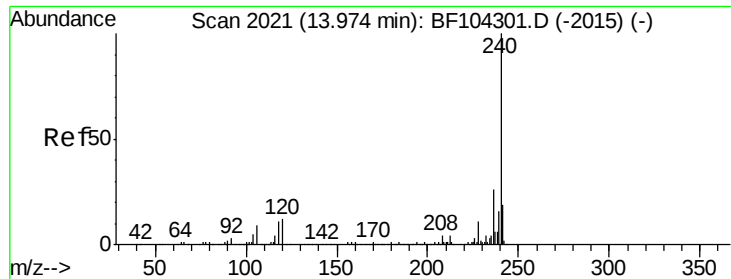
Delta R.T. 0.01 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Tgt Ion:	202	Resp:	378085
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	34.1
203	17.1	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: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

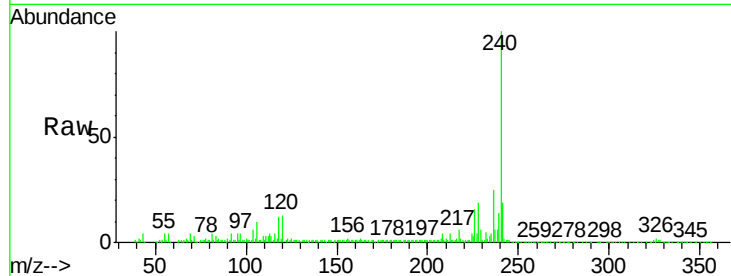
ClientSampleId :

A2-SB01-BOT-4.5DL

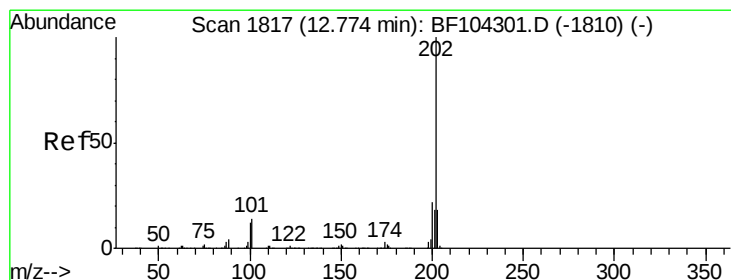
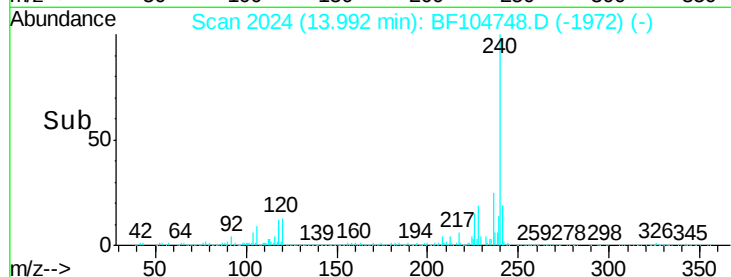
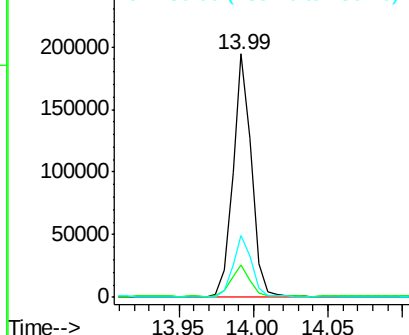
Tot Ion:	240	Resp:	169210
Ion Ratio	Lower	Upper	
240	100		
120	13.4	9.5	14.3
236	25.4	20.7	31.1

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 29.839 ng

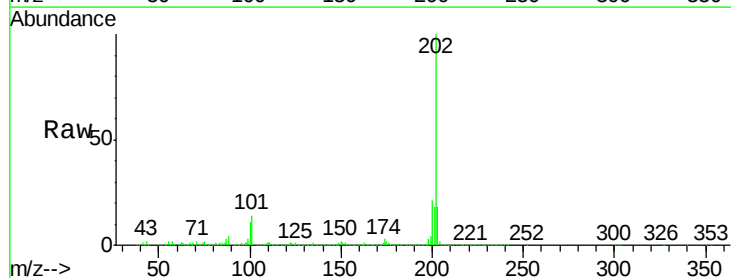
RT: 12.79 min Scan# 1820

Delta R.T. 0.01 min

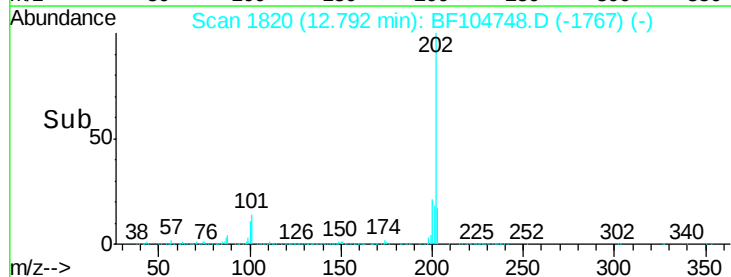
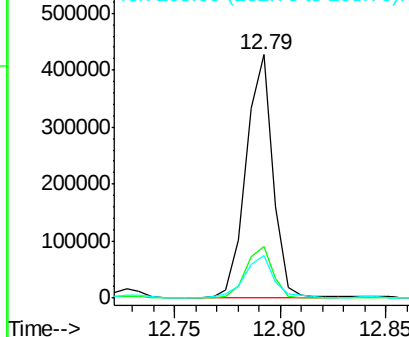
Lab File: BF104748.D

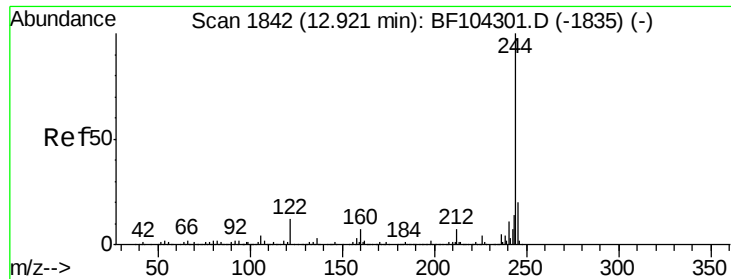
Acq: 24 Apr 2018 10:29

Tgt Ion:	202	Resp:	374250
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.4	26.2
203	17.7	14.3	21.5



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





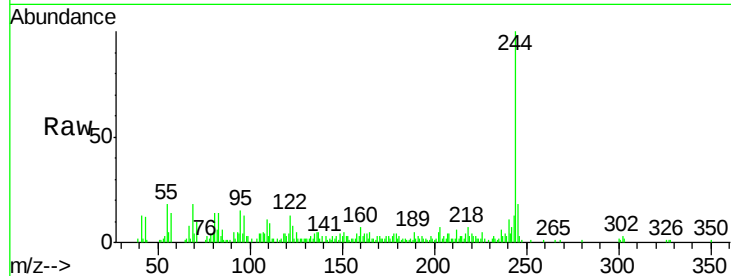
#78
 Terphenyl-d14
 Concen: 4.408 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. 0.01 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5DL

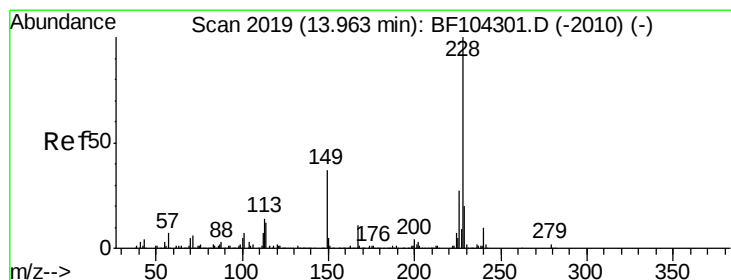
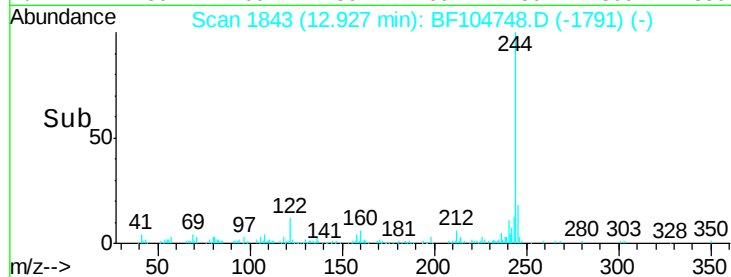
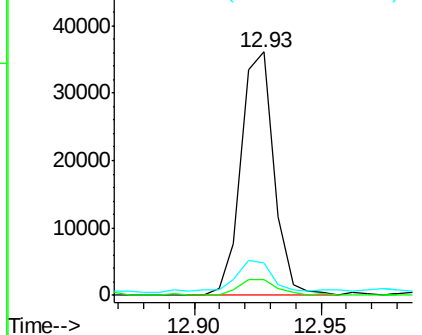
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	13.2	11.0	16.4

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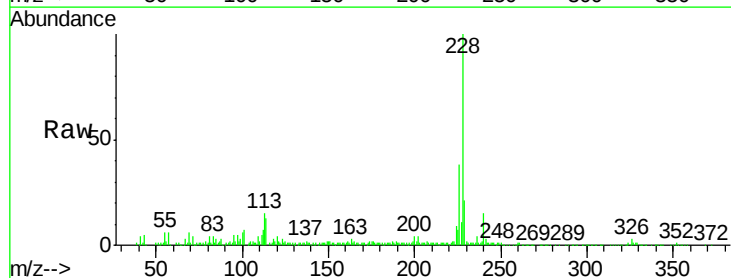


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

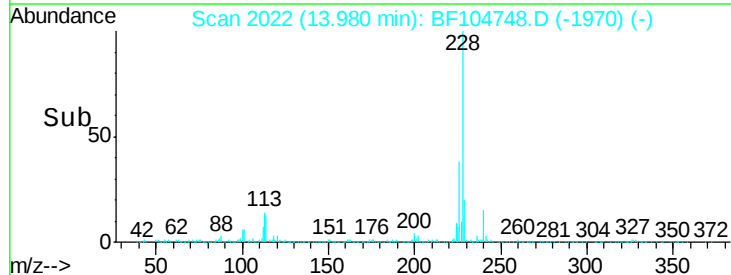
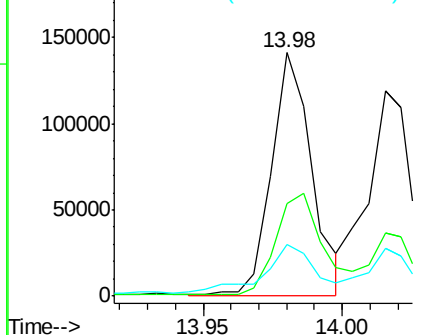


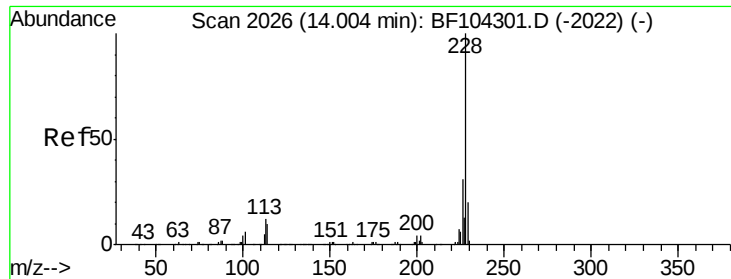
#80
 Benzo(a)anthracene
 Concen: 14.055 ng m
 RT: 13.98 min Scan# 2022
 Delta R.T. 0.01 min
 Lab File: BF104748.D
 Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.0	22.6	33.8#
229	21.2	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





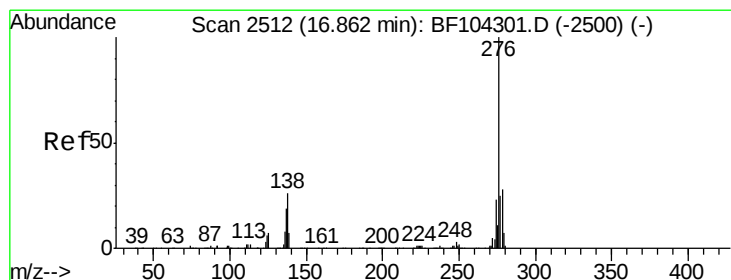
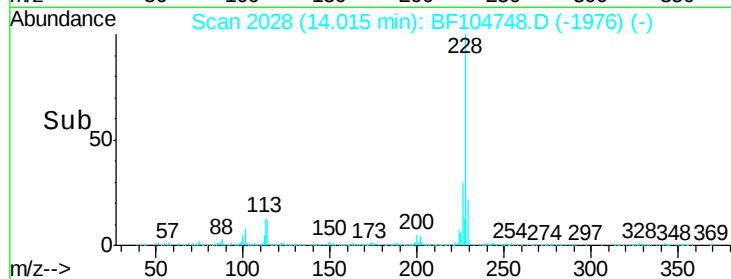
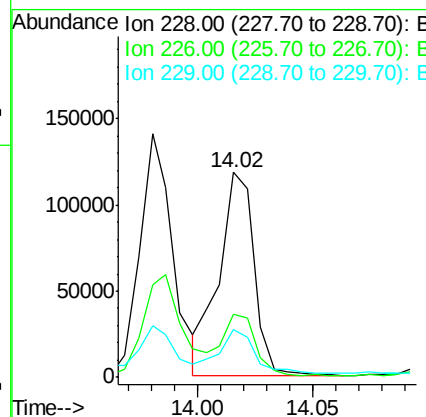
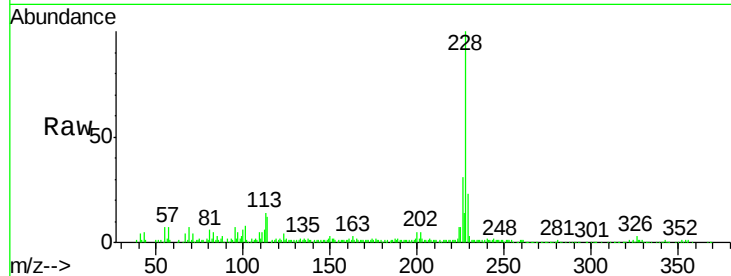
#82
Chrysene
Concen: 12.011 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5DL

Tot Ion:	228	Resp:	124713
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.6
229	23.2	16.2	24.4

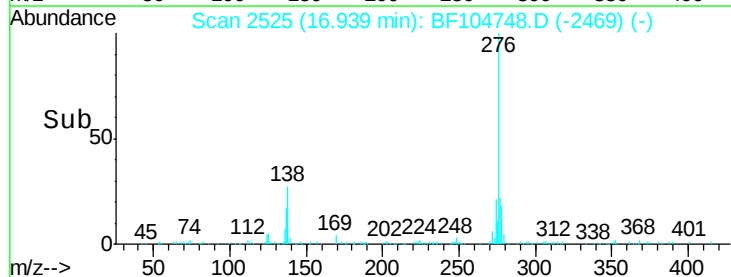
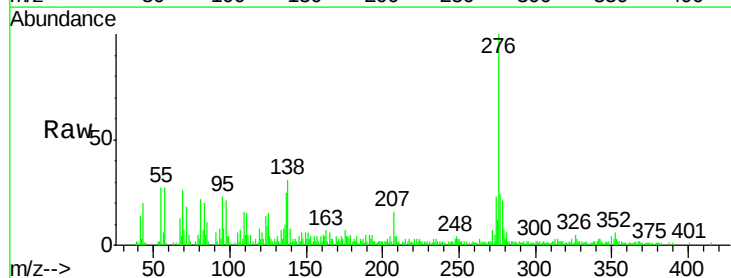
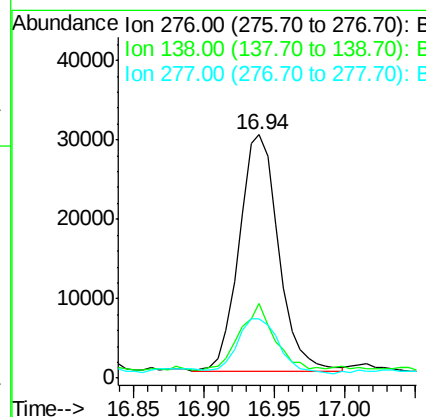
Manual Integrations
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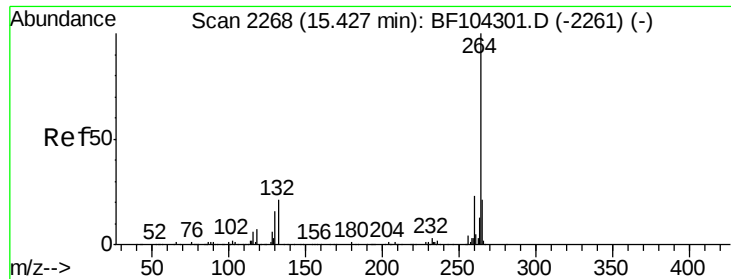
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.572 ng
RT: 16.94 min Scan# 2525
Delta R.T. 0.03 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Tgt Ion:	276	Resp:	57969
Ion Ratio	Lower	Upper	
276	100		
138	24.7	25.0	37.6#
277	24.6	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.02 min

Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

Instrument :

BNA_F

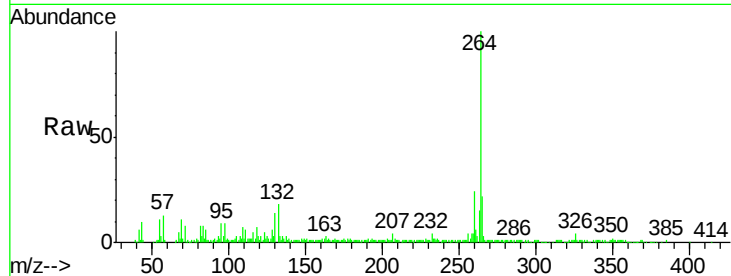
ClientSampleId :

A2-SB01-BOT-4.5DL

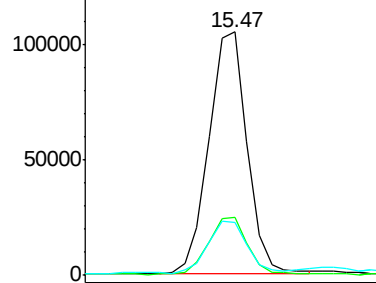
Tot Ion:	264	Resp:	132544
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.2	28.8
265	21.9	17.5	26.3

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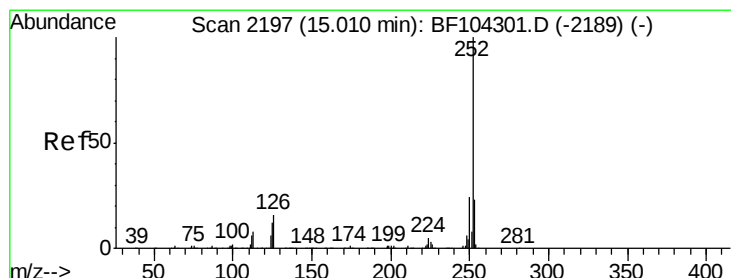
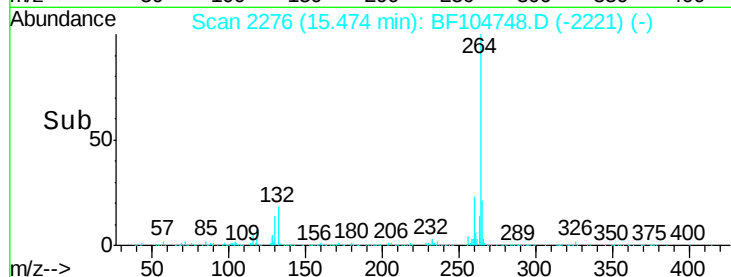
Sohil
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->



#87

Benzo(b)fluoranthene

Concen: 15.963 ng m

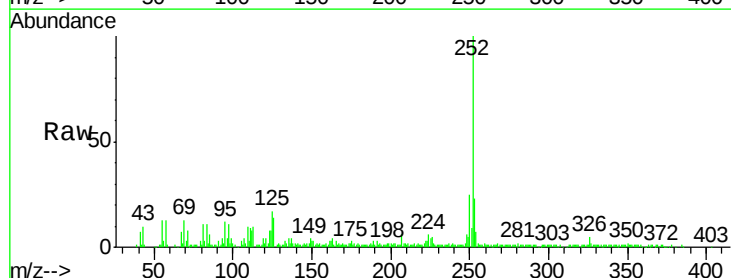
RT: 15.04 min Scan# 2203

Delta R.T. 0.02 min

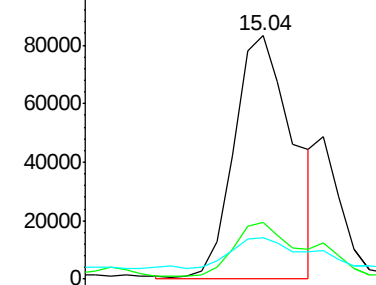
Lab File: BF104748.D

Acq: 24 Apr 2018 10:29

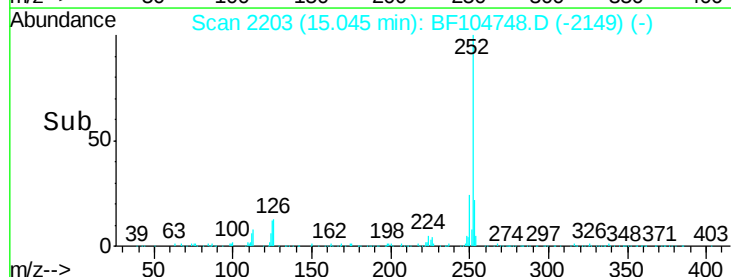
Tgt Ion:	252	Resp:	133631
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.0	25.6
125	17.0	9.0	13.6#

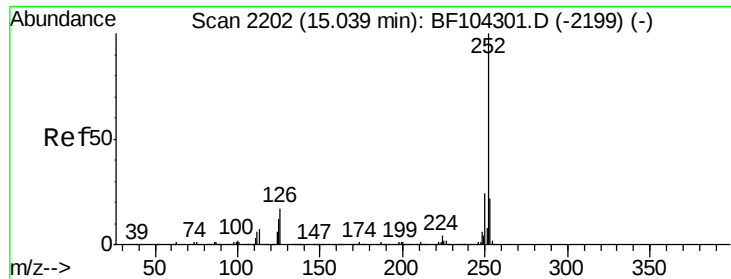


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





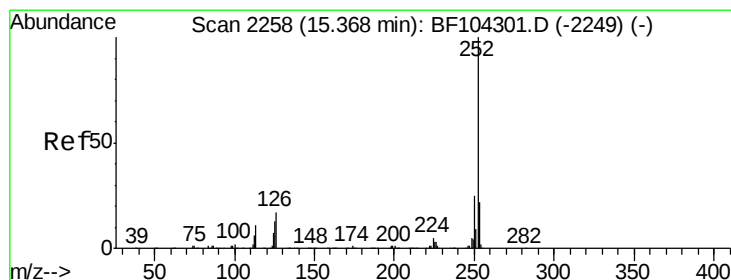
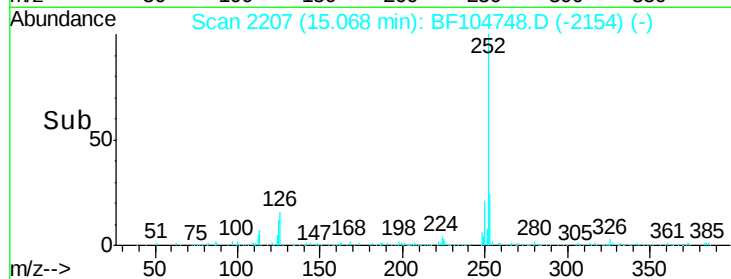
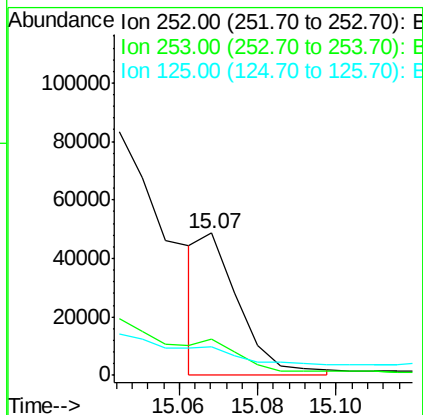
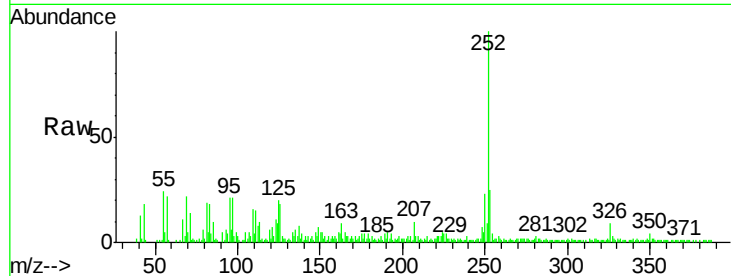
#88
Benzo(k)fluoranthene
Concen: 4.218 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.9	26.9
125	19.9	10.2	15.2

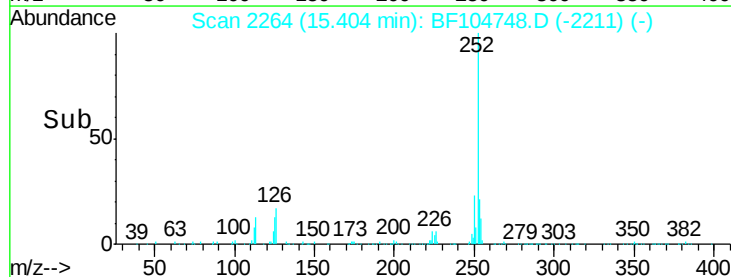
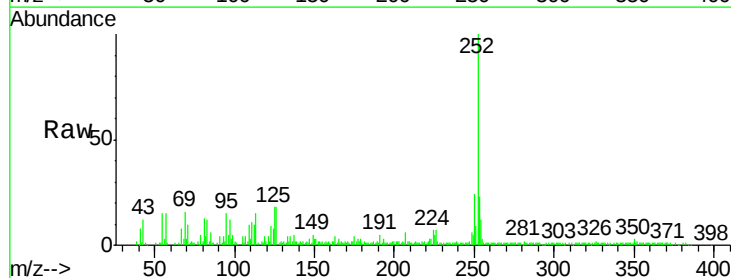
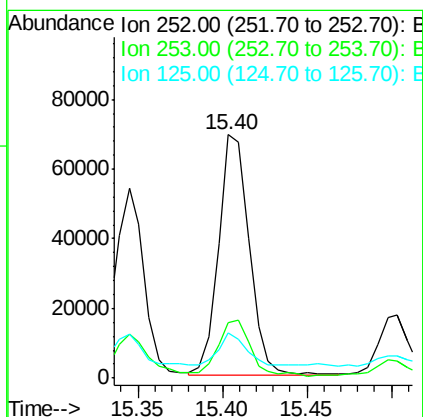
Manual Integrations
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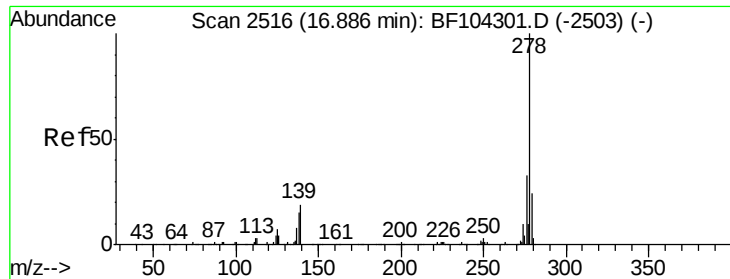
Sohil
4/24/2018 3:49:32 PM



#89
Benzo(a)pyrene
Concen: 11.762 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	18.5	9.8	14.6





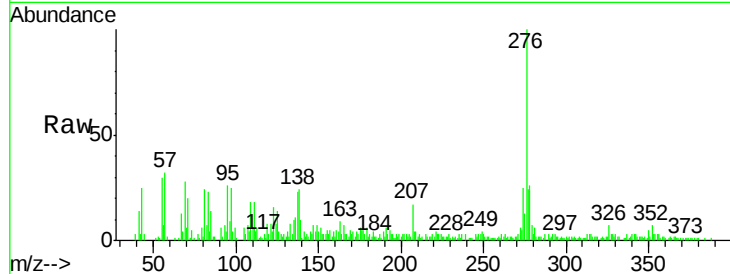
#90
Dibenzo(a,h)anthracene
Concen: 2.061 ng
RT: 16.94 min Scan# 2526
Delta R.T. 0.02 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	38.1	15.9	23.9#
279	27.9	19.0	28.4

Manual Integrations
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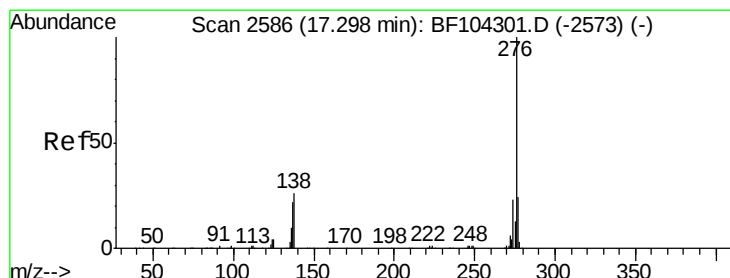
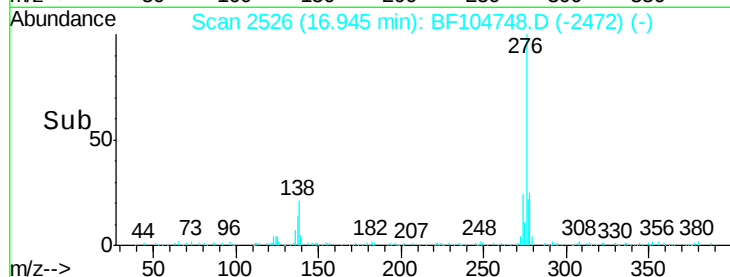
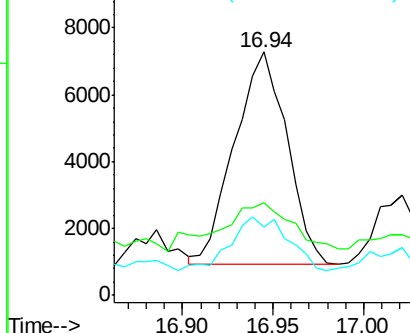


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 10.590 ng
RT: 17.39 min Scan# 2601
Delta R.T. 0.04 min
Lab File: BF104748.D
Acq: 24 Apr 2018 10:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	26.4	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

