

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
 Data File : BF104020.D
 Acq On : 28 Mar 2018 19:50
 Operator : JU/SJ
 Sample : J2100-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 TP-5-DB

Manual Integrations
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 3/29/2018 5:36:31 PM

Quant Time: Mar 29 11:37:25 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 28 13:41:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	124773	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	516633	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	231640	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	355015	20.00	ng	0.00
75) Chrysene-d12	14.16	240	231280	20.00	ng	0.00
86) Perylene-d12	15.70	264	212209	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	800590	102.32	ng	0.00
7) Phenol-d6	6.60	99	1039531	107.99	ng	0.00
23) Nitrobenzene-d5	7.53	82	602525	71.32	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	216835	84.07	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	799869	54.45	ng	0.00
78) Terphenyl-d14	13.08	244	501039	50.02	ng	0.00
Target Compounds						Qvalue
13) 1,4-Dichlorobenzene	6.99	146	32598	3.153	ng	98
31) Naphthalene	8.27	128	239387	9.485	ng	99
37) 2-Methylnaphthalene	8.96	142	79728	4.796	ng	99
49) Dimethylphthalate	9.71	163	113715	6.218	ng	100
51) Acenaphthene	10.03	154	153821	11.192	ng	99
54) Dibenzofuran	10.21	168	131971	6.575	ng	100
57) Fluorene	10.56	166	180391	10.896	ng	99
70) Phenanthrene	11.53	178	1540552	80.150	ng	99
71) Anthracene	11.58	178	490846	24.448	ng	98
72) Carbazole	11.74	167	135390	7.066	ng	98
74) Fluoranthene	12.73	202	1551595	75.944	ng	99
77) Pyrene	12.96	202	1523107	91.611	ng	99
80) Benzo(a)anthracene	14.15	228	687566	47.511	ng	98
82) Chrysene	14.19	228	696009m	49.104	ng	
85) Indeno(1,2,3-cd)pyrene	17.30	276	305973	20.831	ng	# 91
87) Benzo(b)fluoranthene	15.24	252	724228m	56.077	ng	
88) Benzo(k)fluoranthene	15.27	252	300073m	24.665	ng	
89) Benzo(a)pyrene	15.64	252	597031	49.885	ng	97
90) Dibenzo(a,h)anthracene	17.30	278	70100m	6.335	ng	
91) Benzo(a,h,i)perylene	17.79	276	320142	28.885	ng	95

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

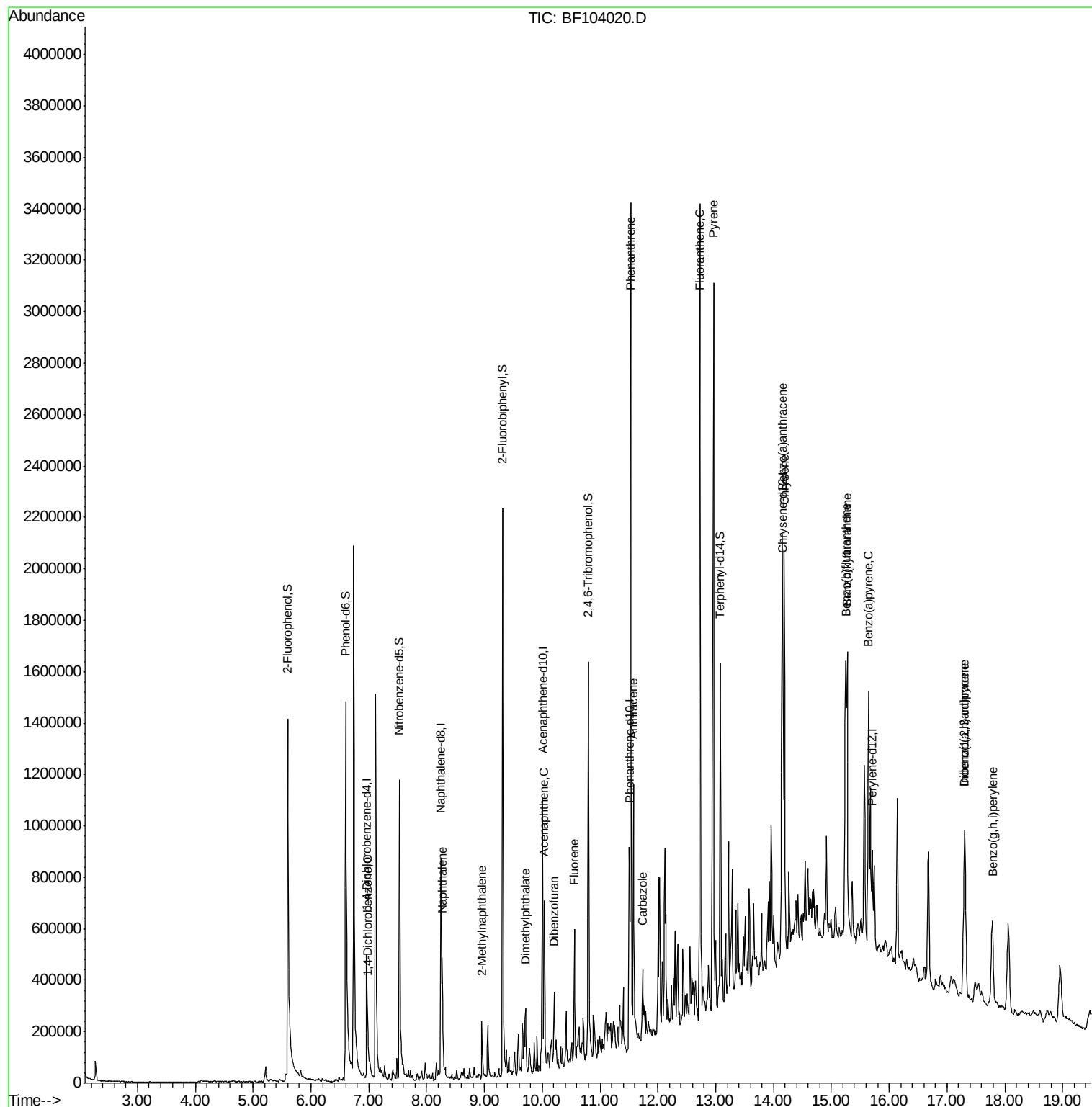
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
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ALS Vial : 14 Sample Multiplier: 1

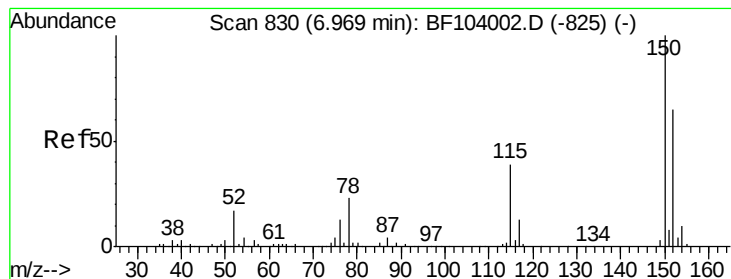
Instrument :
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TP-5-DB

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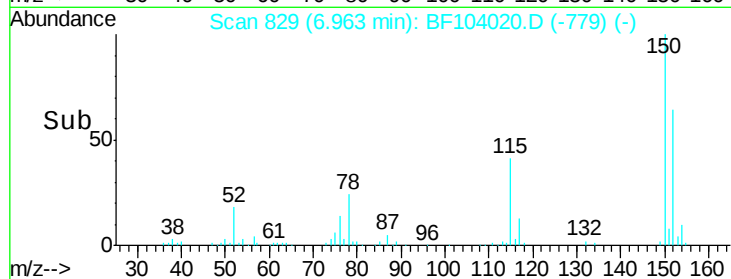
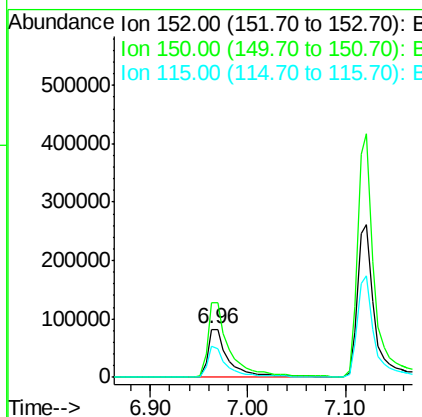
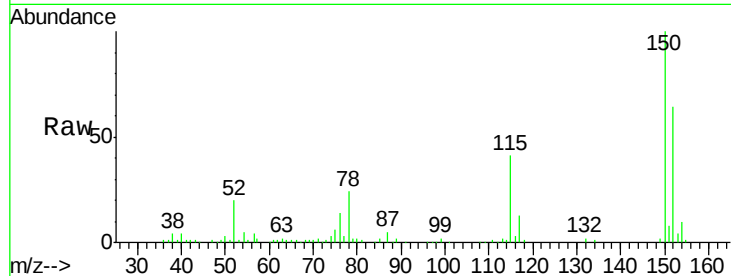
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 829
 Delta R.T. -0.01 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Instrument :
 BNA_F
 ClientSampled :
 TP-5-DB

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.6	186.8
115	64.0	50.1	75.1

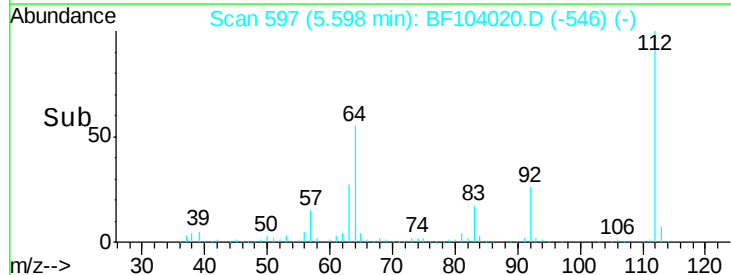
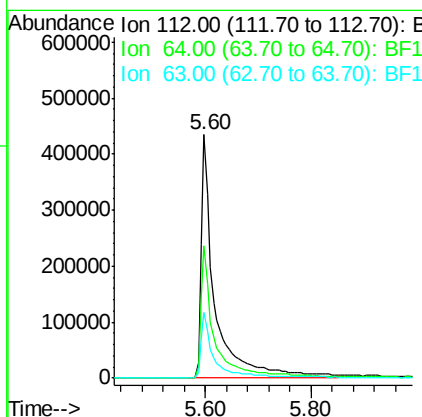
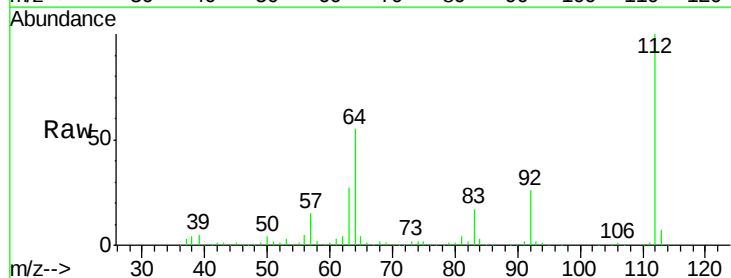
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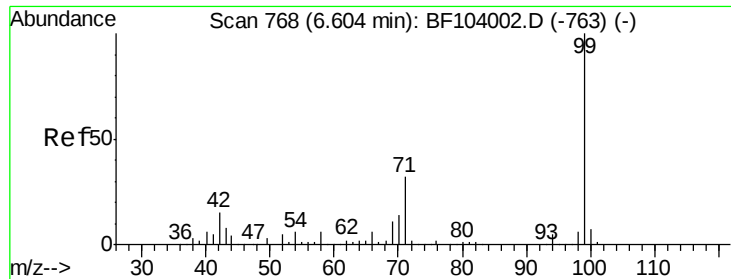
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#5
 2-Fluorophenol
 Concen: 102.325 ng
 RT: 5.60 min Scan# 597
 Delta R.T. -0.00 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	47.9	71.9
63	27.2	23.7	35.5





#7

Phenol-d6

Concen: 107.993 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

ClientSampleId :

TP-5-DB

Tot Ion: 99 Resp: 1039531

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

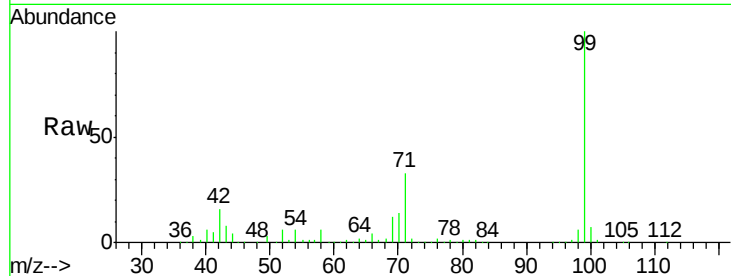
71 33.0 25.4 38.0

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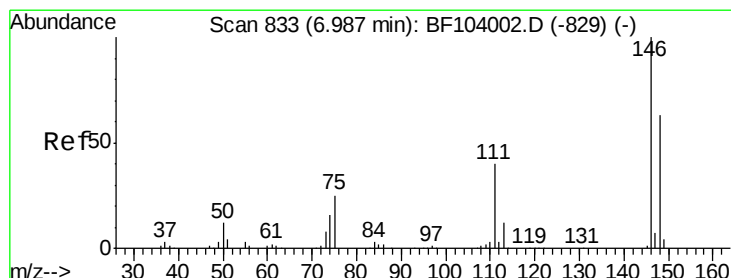
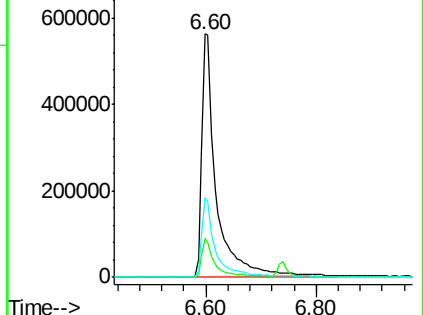
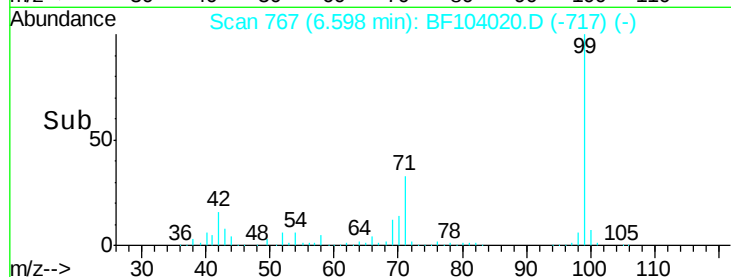
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#13

1,4-Dichlorobenzene

Concen: 3.153 ng

RT: 6.99 min Scan# 833

Delta R.T. -0.00 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

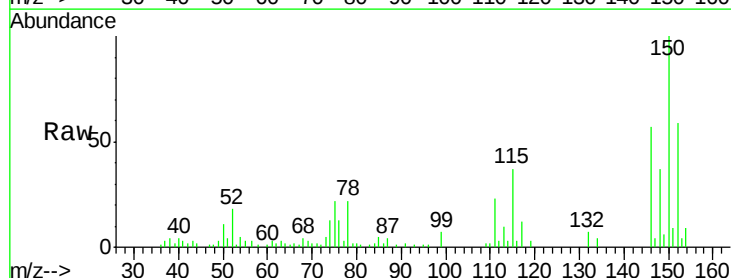
Tgt Ion: 146 Resp: 32598

Ion Ratio Lower Upper

146 100

148 64.5 50.8 76.2

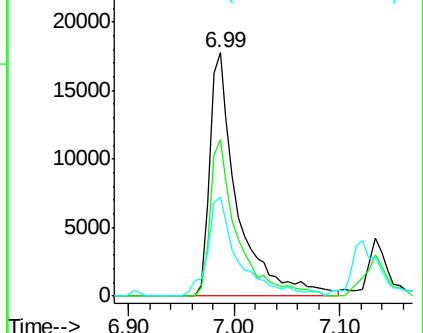
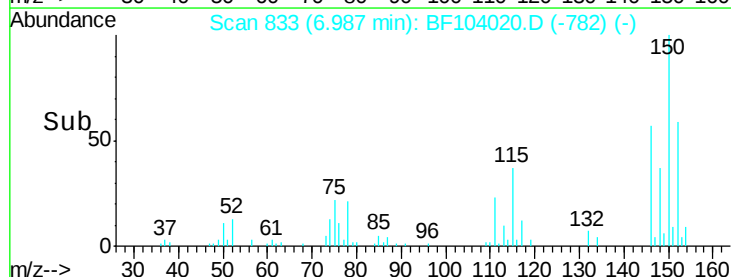
111 40.7 34.2 51.2

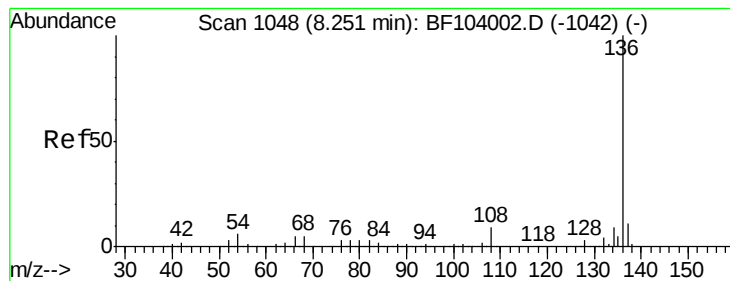


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

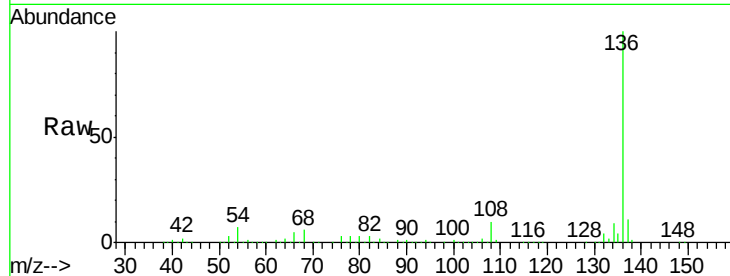
ClientSampled :

TP-5-DB

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		516633		
137	11.3		8.9	13.3	
54	6.7		6.6	9.8	
68	5.9		5.0	7.4	

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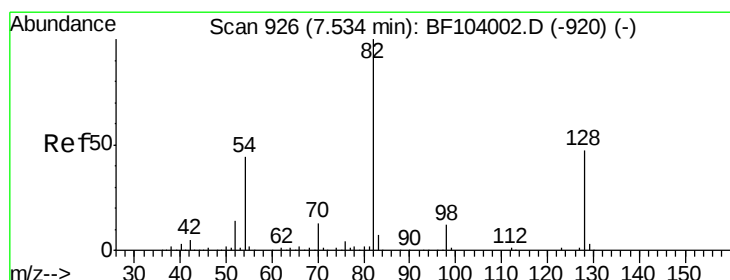
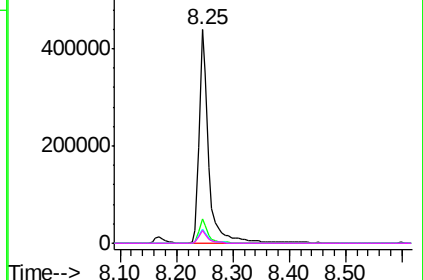
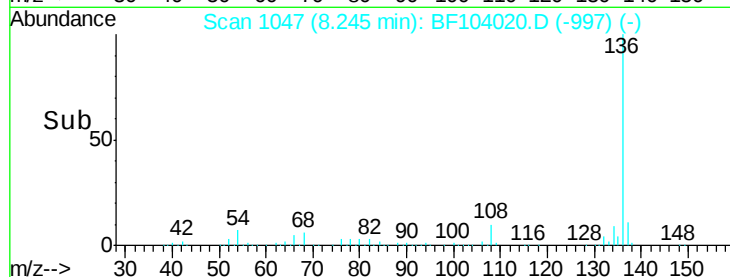


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 71.323 ng

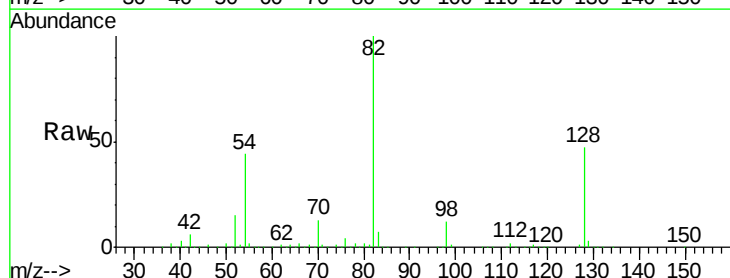
RT: 7.53 min Scan# 925

Delta R.T. -0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

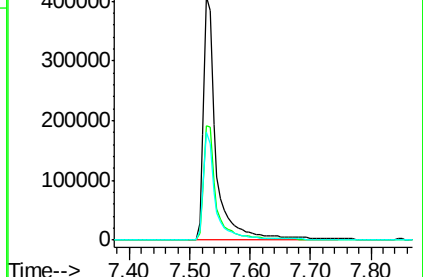
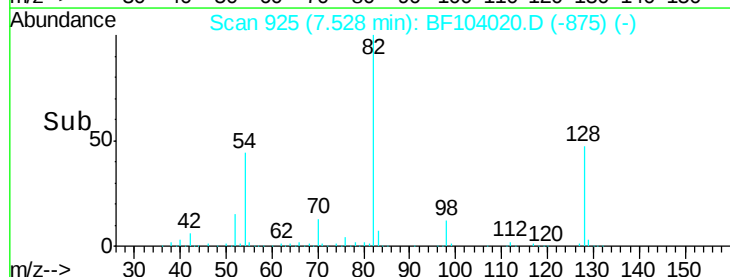
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		602525		
128	46.9		36.1	54.1	
54	44.5		41.4	62.2	

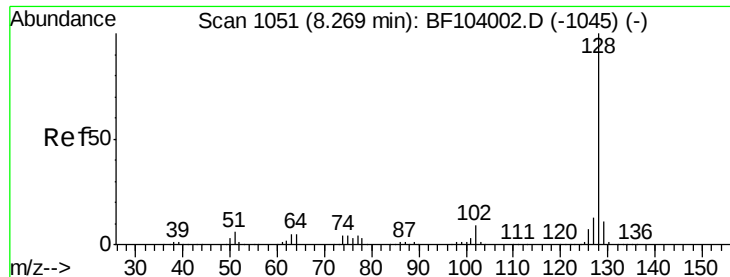


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





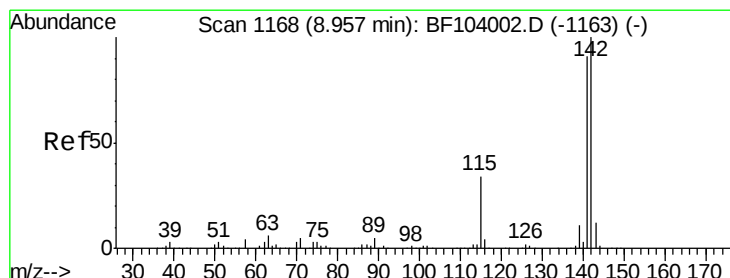
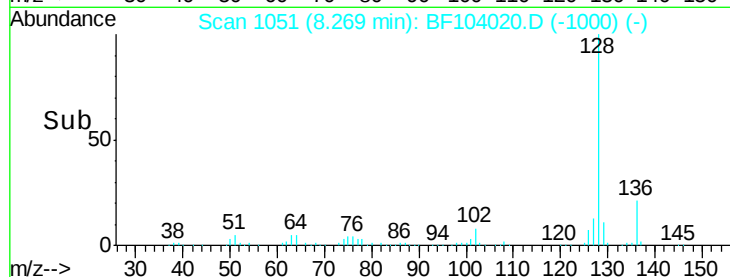
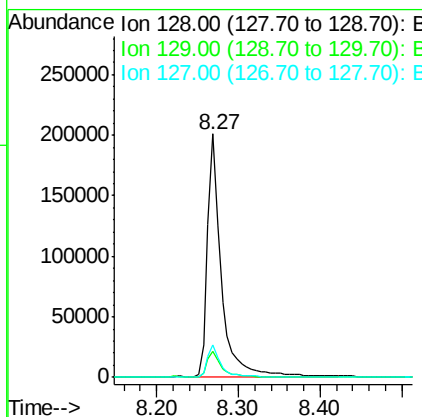
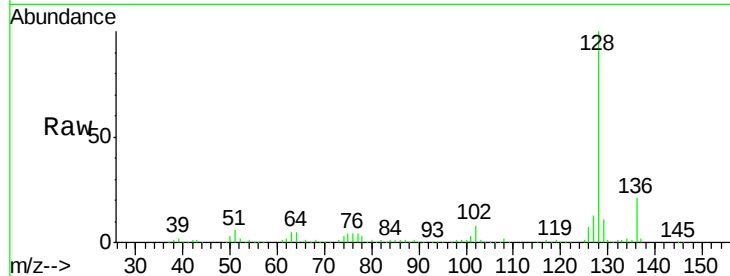
#31
Naphthalene
Concen: 9.485 ng
RT: 8.27 min Scan# 1051
Delta R.T. -0.00 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleID :
TP-5-DB

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	13.4	10.9	16.3

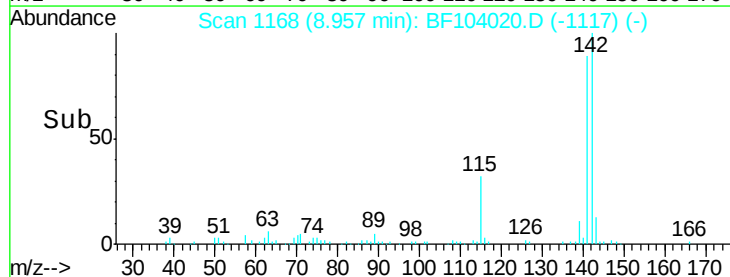
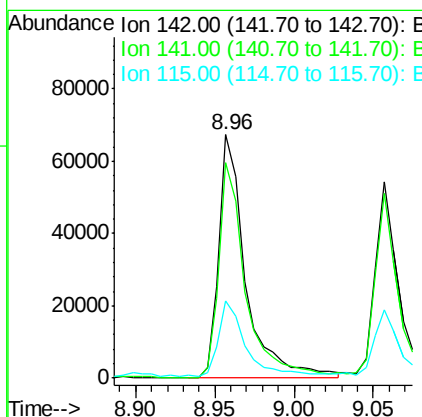
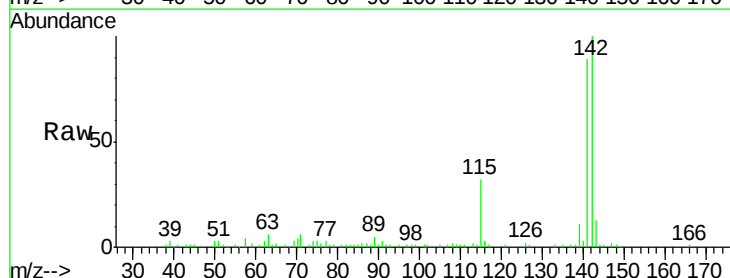
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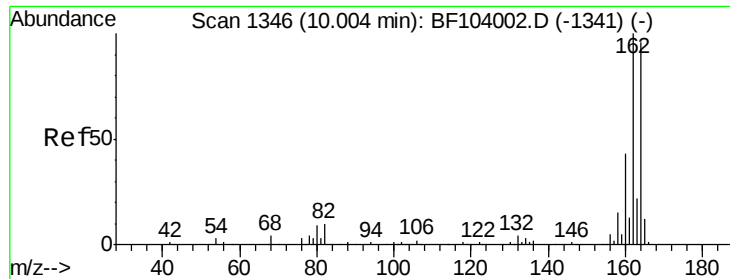
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#37
2-Methylnaphthalene
Concen: 4.796 ng
RT: 8.96 min Scan# 1168
Delta R.T. -0.00 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	31.8	26.1	39.1





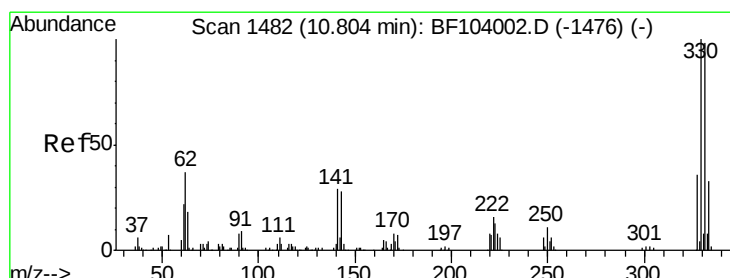
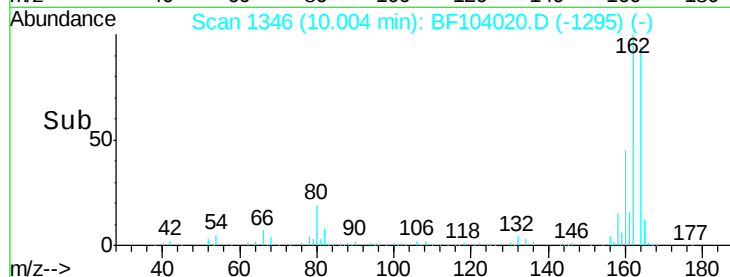
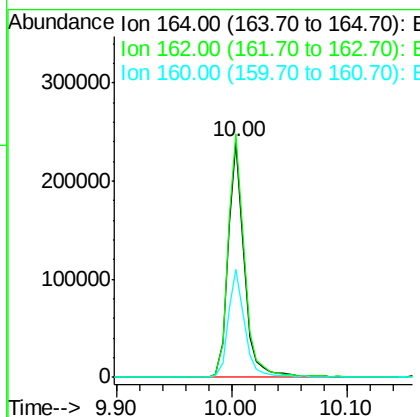
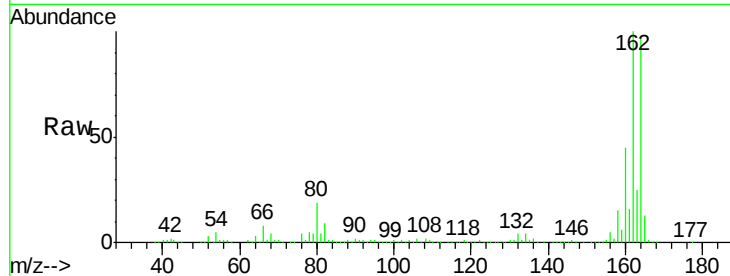
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-DB

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	46.1	38.3	57.5

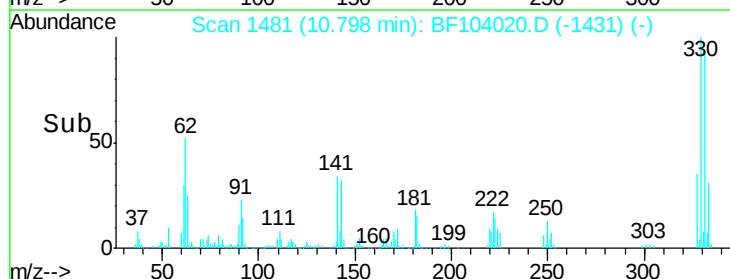
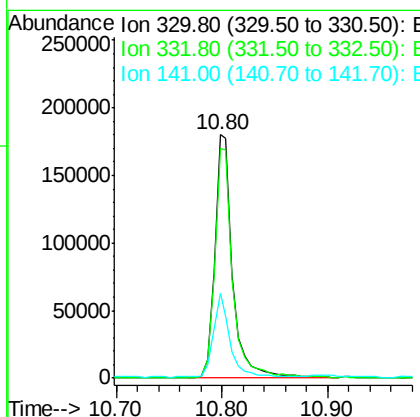
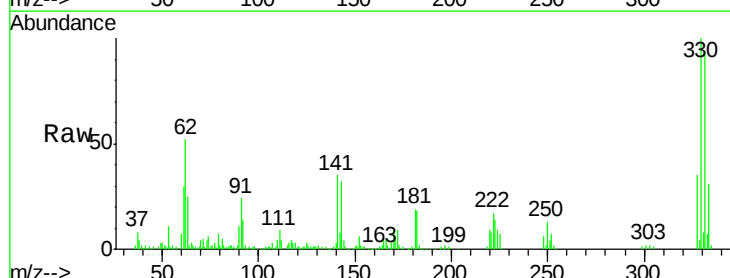
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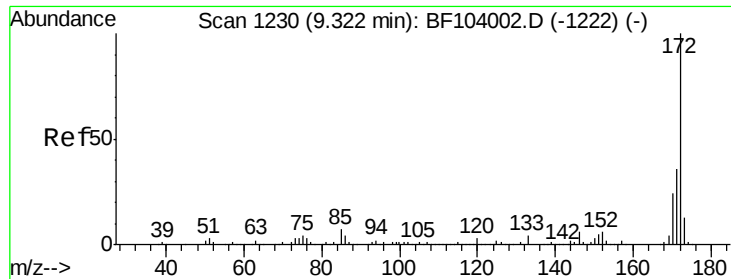
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#41
 2,4,6-Tribromophenol
 Concen: 84.067 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.0	115.6
141	31.9	29.9	44.9





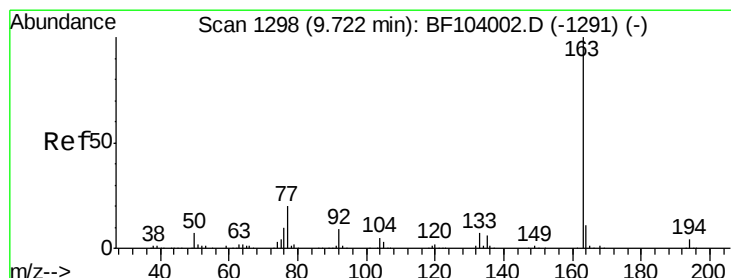
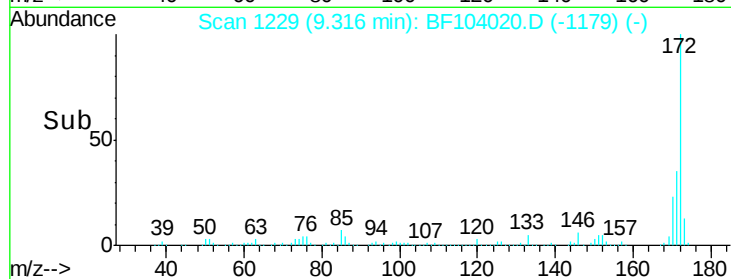
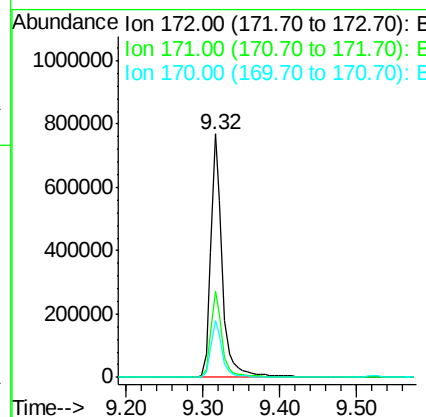
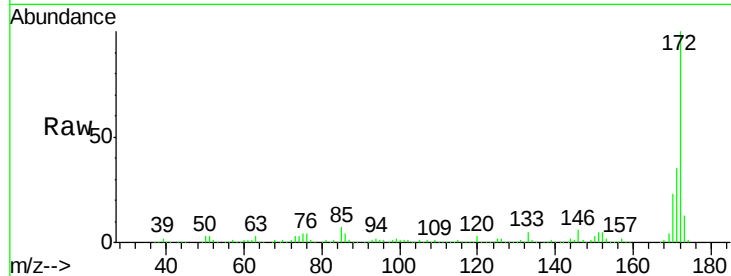
#44
2-Fluorobiphenyl
Concen: 54.452 ng
RT: 9.32 min Scan# 1229
Delta R.T. -0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	23.2	19.6	29.4

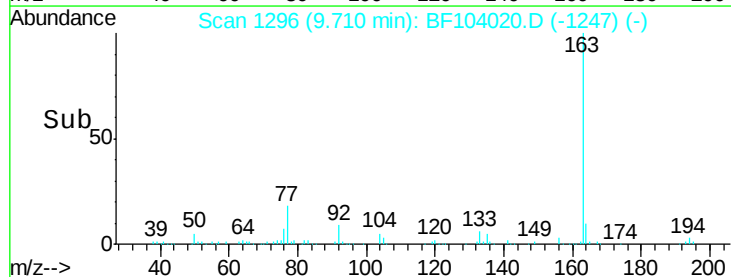
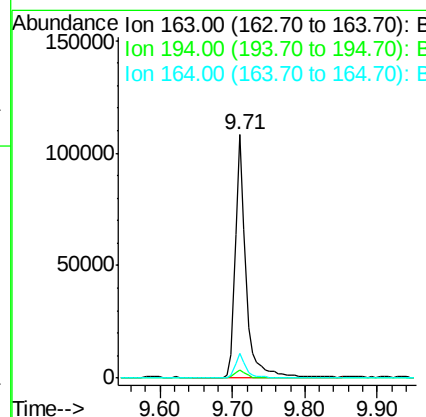
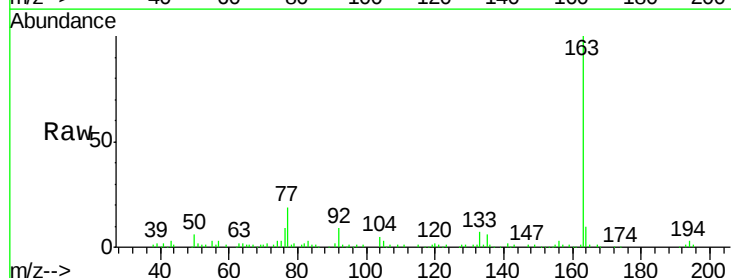
Manual Integrations
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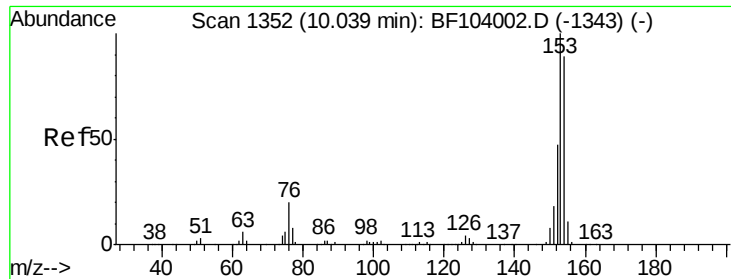
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#49
Dimethylphthalate
Concen: 6.218 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.7	4.1
164	10.1	8.2	12.2





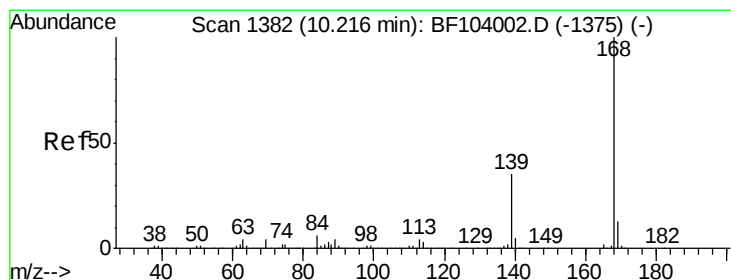
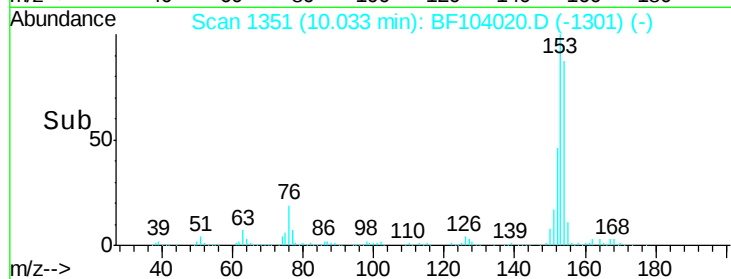
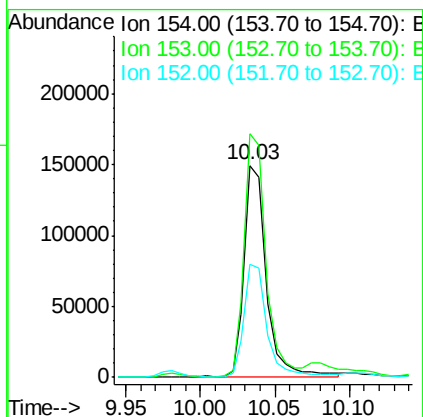
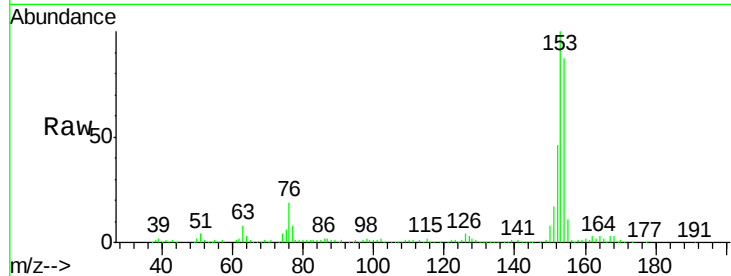
#51
Acenaphthene
Concen: 11.192 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.9	91.2	136.8
152	53.3	43.8	65.8

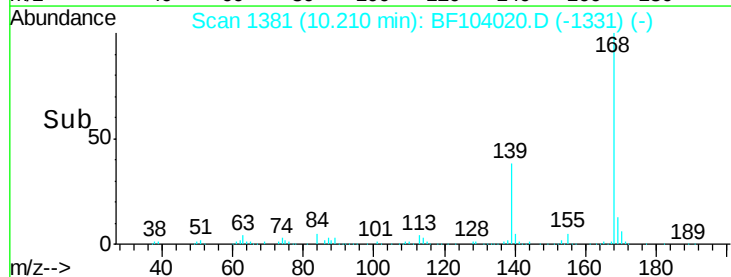
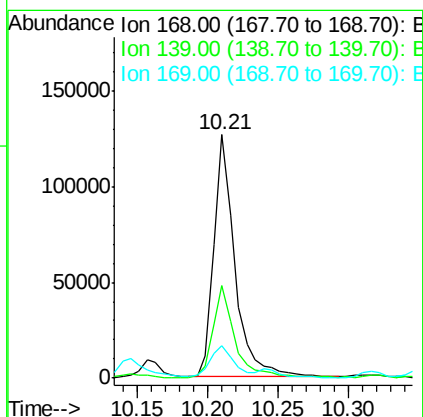
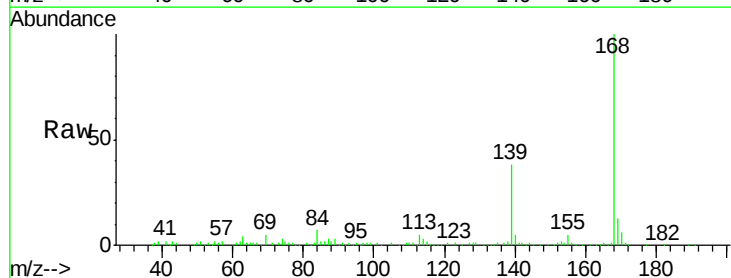
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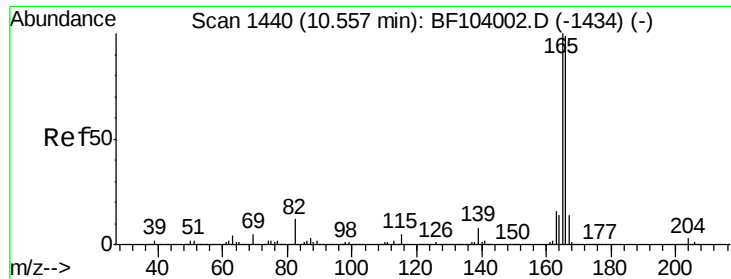
Sohil
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#54
Dibenzofuran
Concen: 6.575 ng
RT: 10.21 min Scan# 1381
Delta R.T. -0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.1	45.1
169	13.5	10.9	16.3





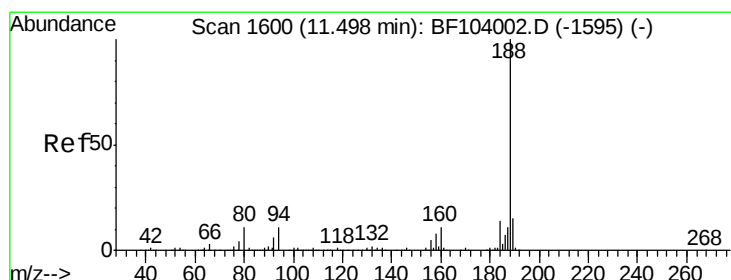
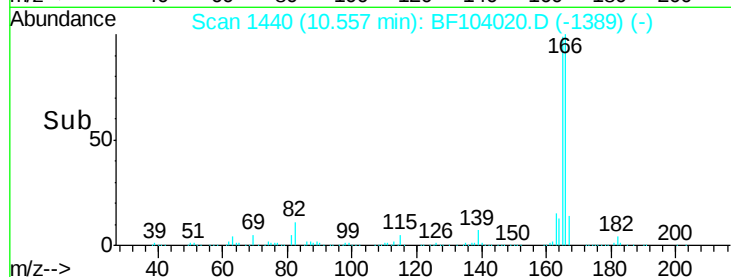
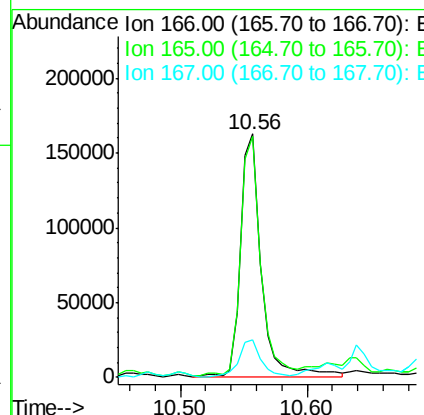
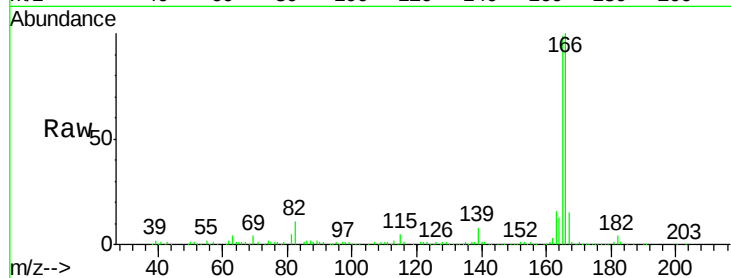
#57
Fluorene
 Concen: 10.896 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-DB

Tot Ion	Ratio	Resp	Lower	Upper
166	100	180391		
165	99.2	79.8	119.8	
167	15.3	10.6	16.0	

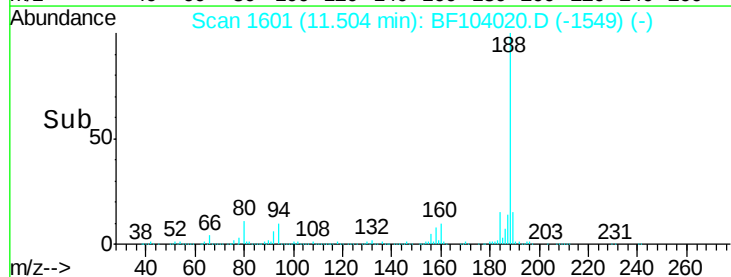
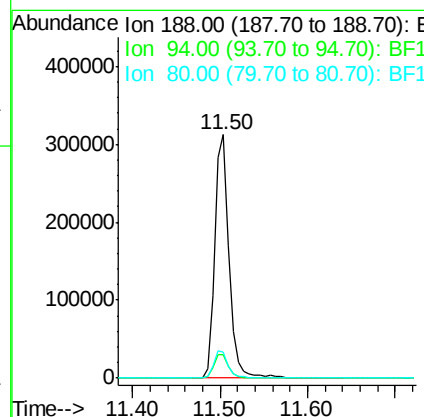
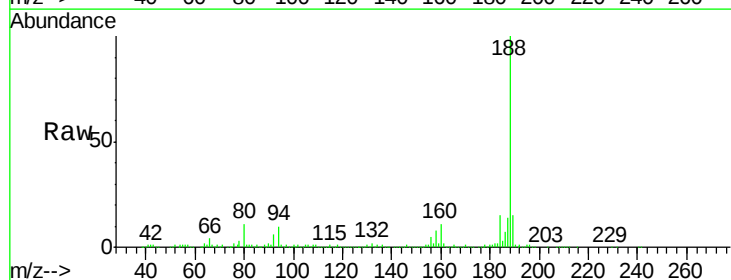
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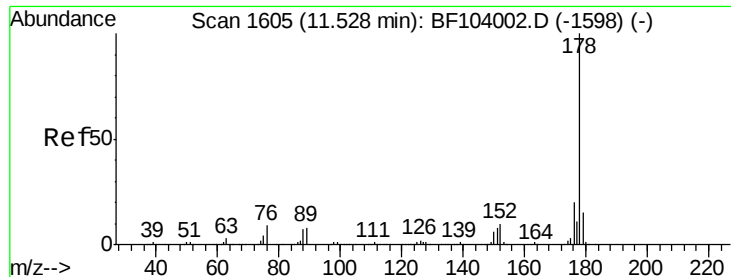
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. 0.01 min
 Lab File: BF104020.D
 Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	355015		
94	9.8	8.5	12.7	
80	10.7	9.2	13.8	





#70

Phenanthrene

Concen: 80.150 ng

RT: 11.53 min Scan# 1606

Delta R.T. 0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

ClientSampled :

TP-5-DB

Tot Ion:178 Resp: 1540552

Ion Ratio Lower Upper

178 100

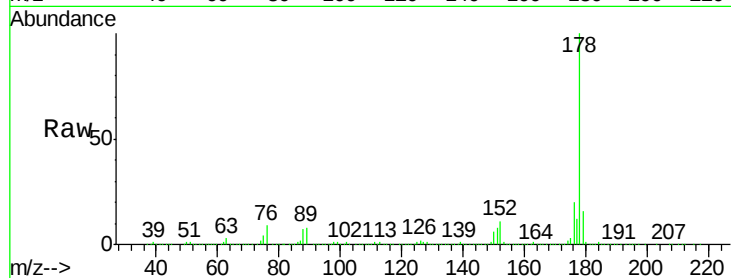
176 19.8 15.8 23.8

179 15.5 13.0 19.6

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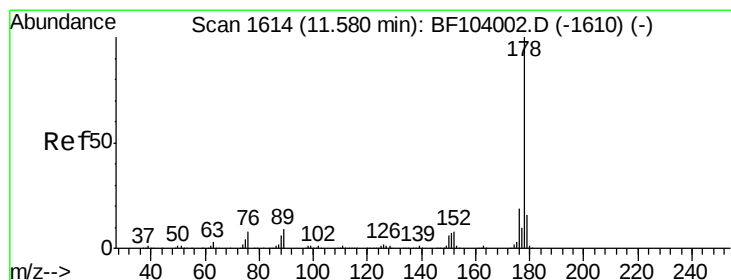
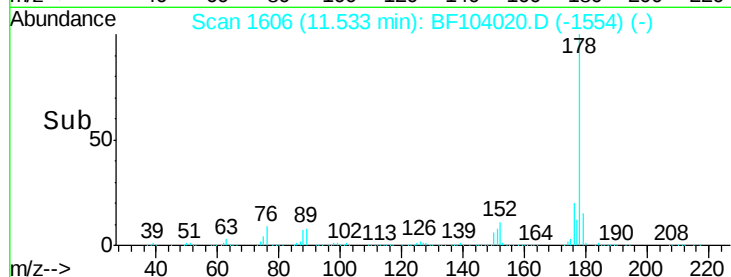
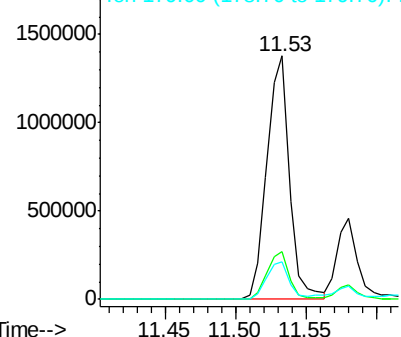
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 24.448 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.00 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

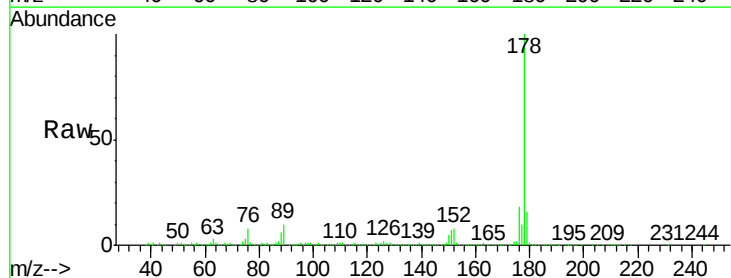
Tgt Ion:178 Resp: 490846

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.2

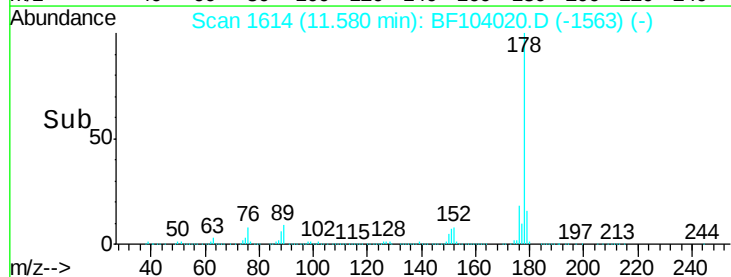
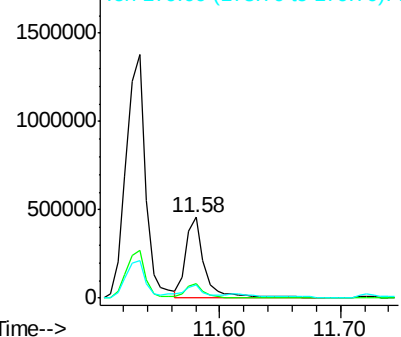
179 16.0 12.6 19.0

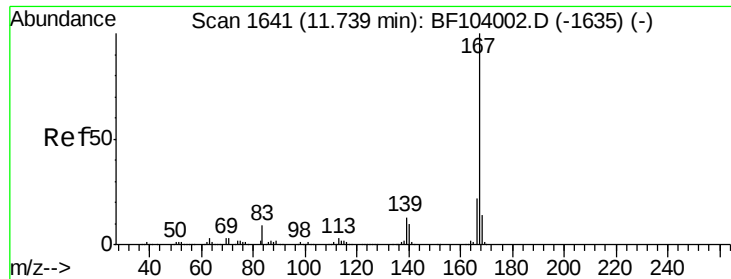


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 7.066 ng

RT: 11.74 min Scan# 1641

Delta R.T. -0.00 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

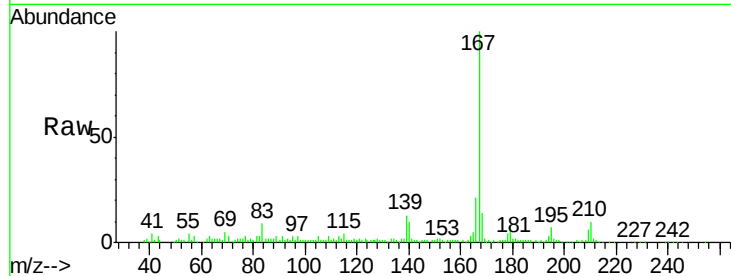
ClientSampled :

TP-5-DB

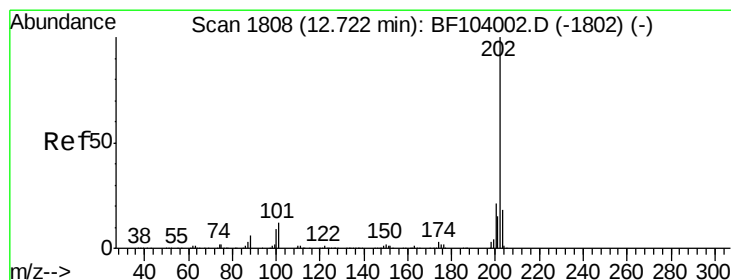
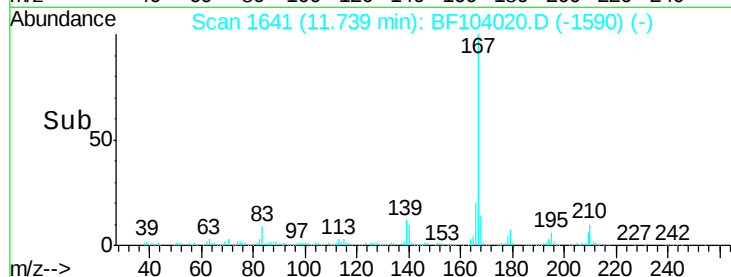
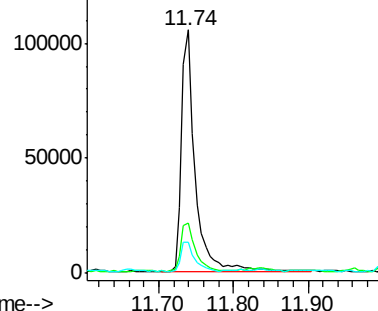
Tot Ion:	167	Resp:	135390
Ion Ratio	Lower	Upper	
167	100		
166	20.8	17.6	26.4
139	12.8	10.9	16.3

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 75.944 ng

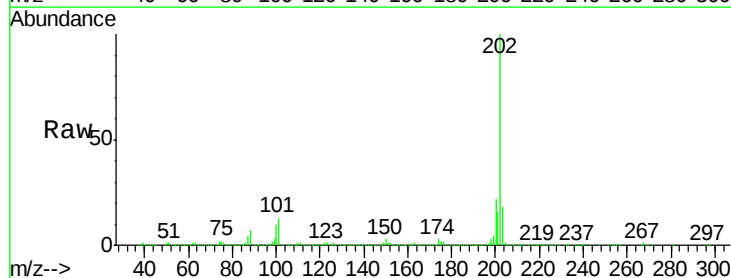
RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

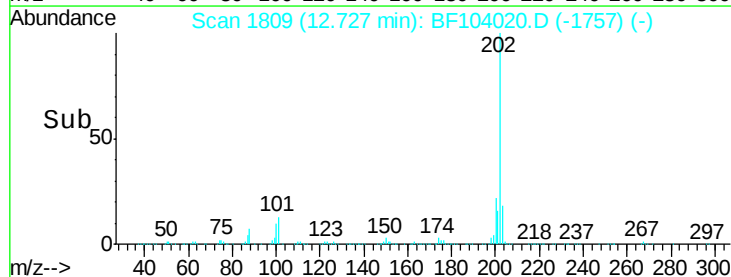
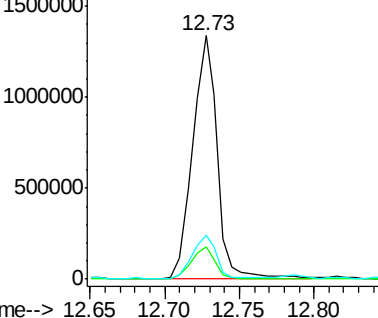
Lab File: BF104020.D

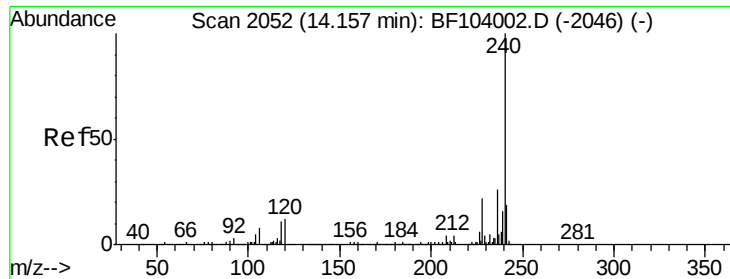
Acq: 28 Mar 2018 19:50

Tgt Ion:	202	Resp:	1551595
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	34.1
203	18.2	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. 0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

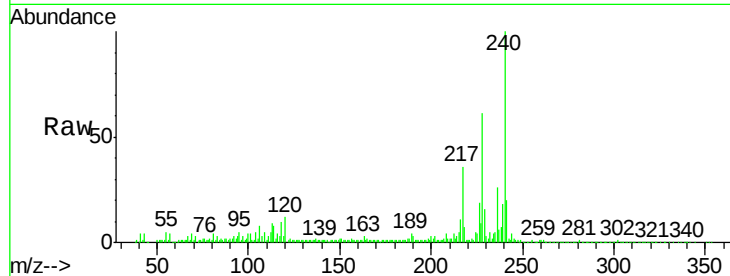
ClientSampleId :

TP-5-DB

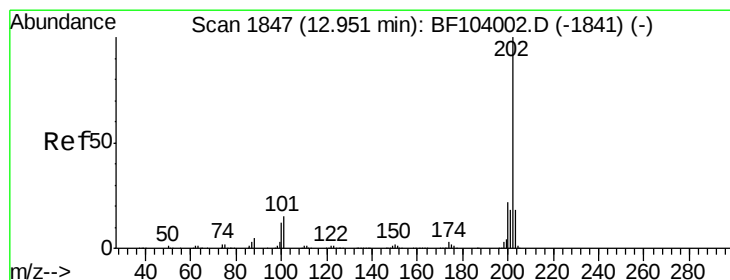
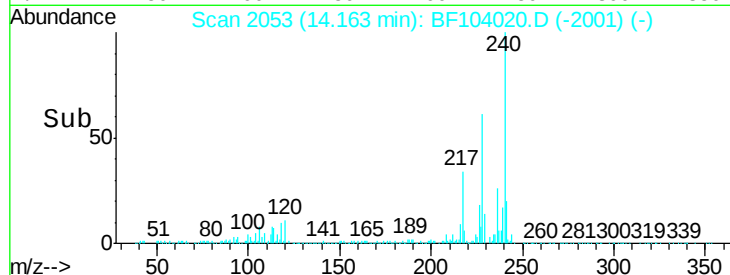
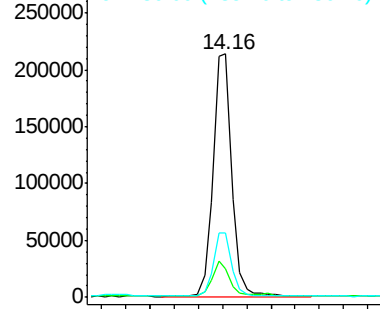
Tot Ion:	240	Resp:	231280
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	26.3	20.7	31.1

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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: 91.611 ng

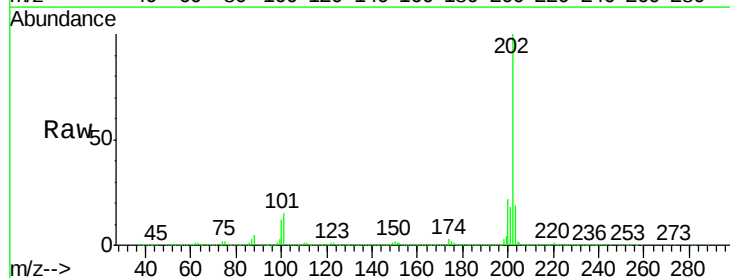
RT: 12.96 min Scan# 1849

Delta R.T. 0.01 min

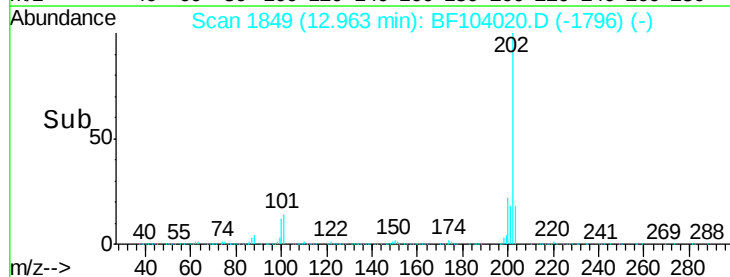
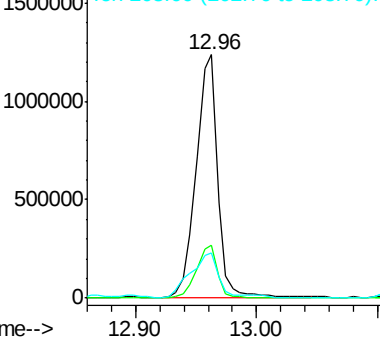
Lab File: BF104020.D

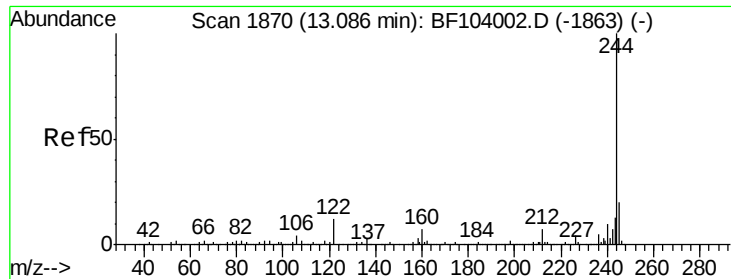
Acq: 28 Mar 2018 19:50

Tgt Ion:	202	Resp:	1523107
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.4	26.2
203	18.6	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: 50.021 ng

RT: 13.08 min Scan# 1869

Delta R.T. -0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Instrument :

BNA_F

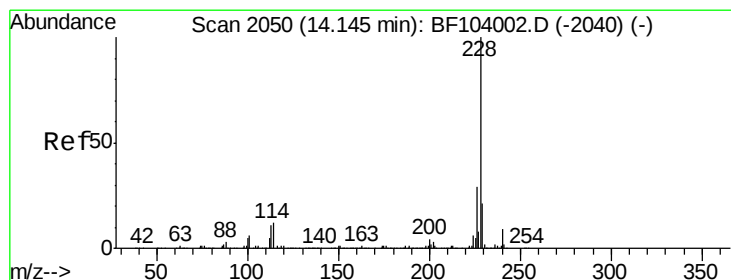
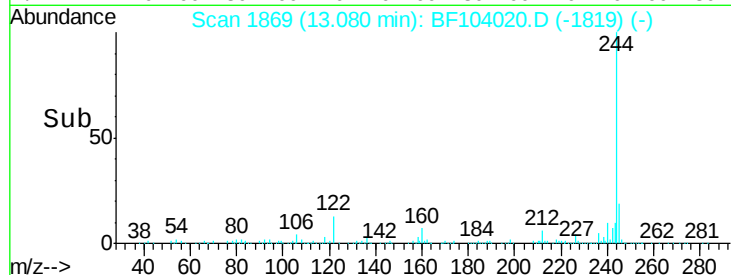
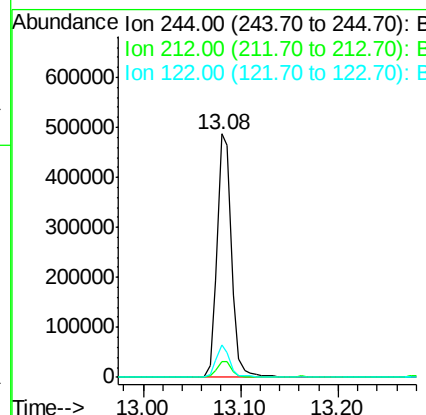
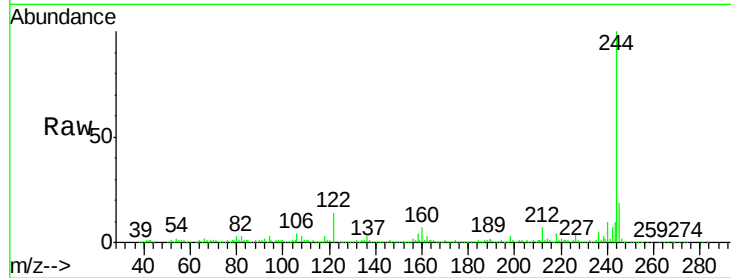
ClientSampled :

TP-5-DB

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	13.5	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 47.511 ng

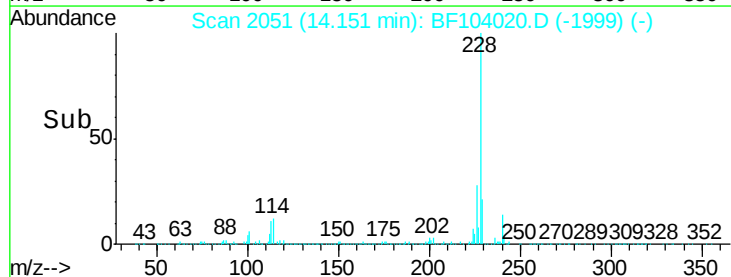
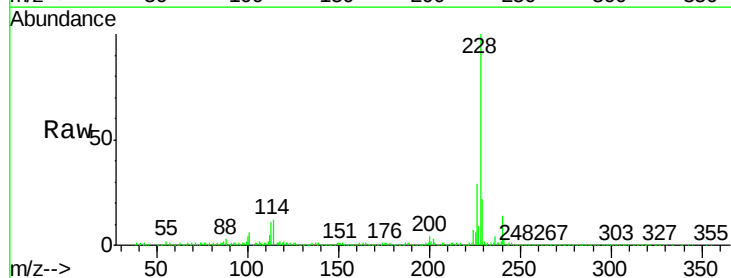
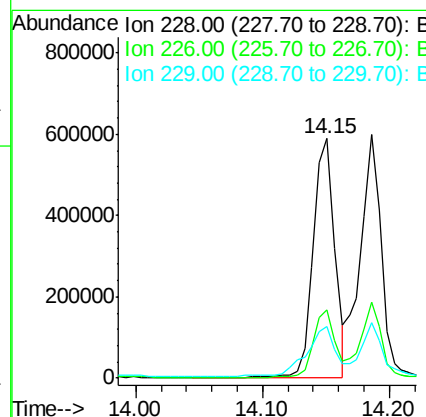
RT: 14.15 min Scan# 2051

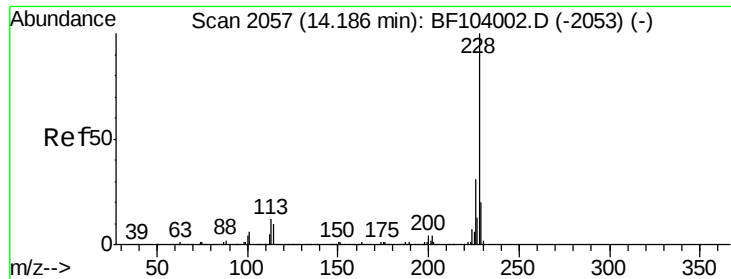
Delta R.T. 0.01 min

Lab File: BF104020.D

Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	21.6	15.8	23.6





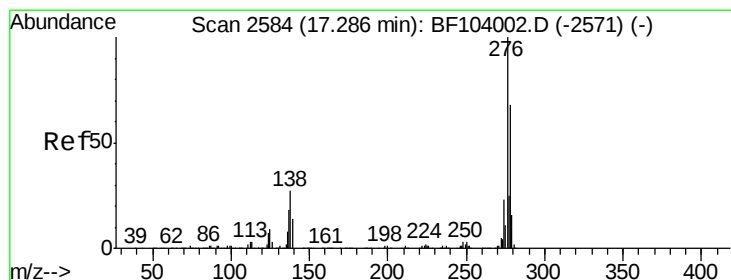
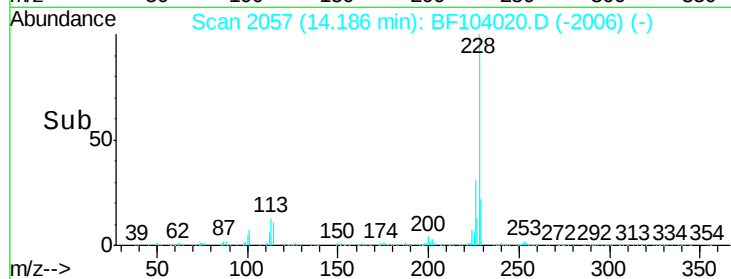
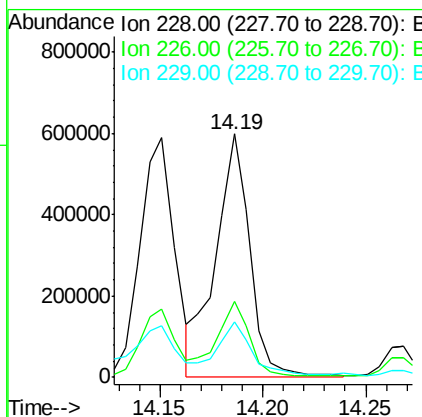
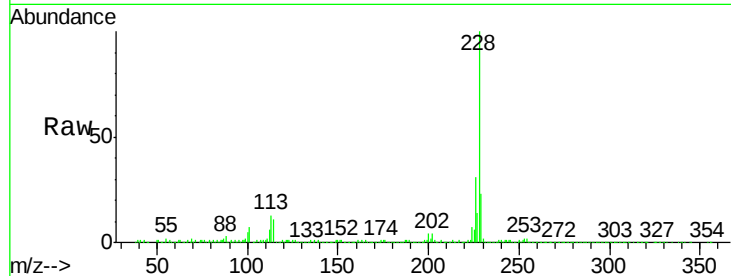
#82
Chrysene
Concen: 49.104 ng/ml
RT: 14.19 min Scan# 2057
Delta R.T. -0.00 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

Tot Ion:	228	Resp:	696009
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	22.7	16.2	24.4

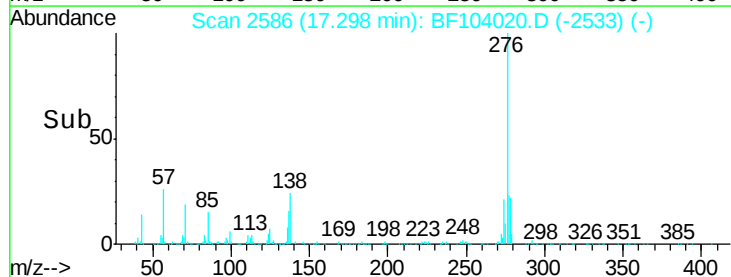
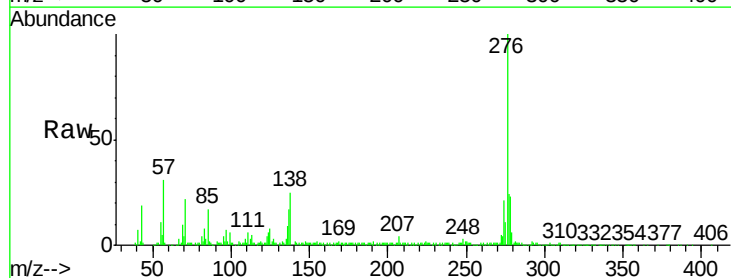
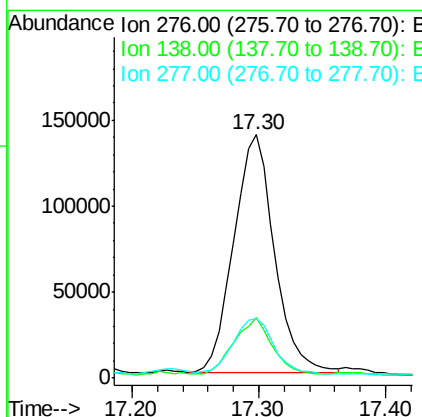
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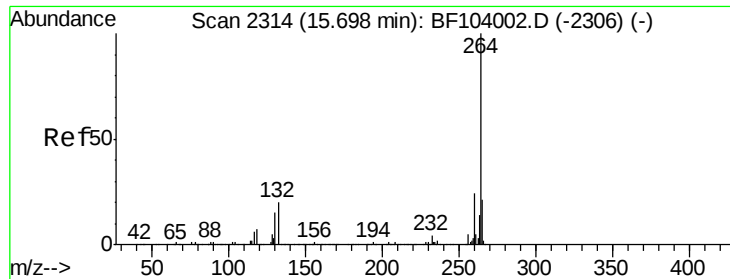
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.831 ng
RT: 17.30 min Scan# 2586
Delta R.T. 0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion:	276	Resp:	305973
Ion Ratio	Lower	Upper	
276	100		
138	22.7	25.0	37.6#
277	24.5	20.1	30.1





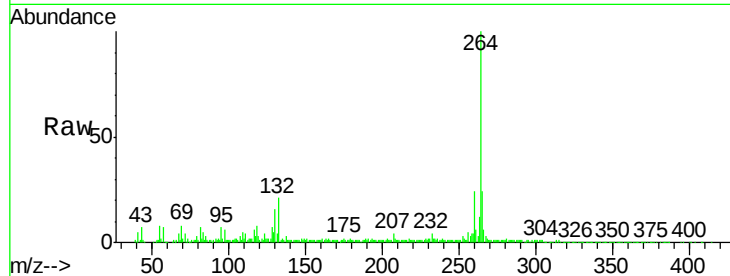
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

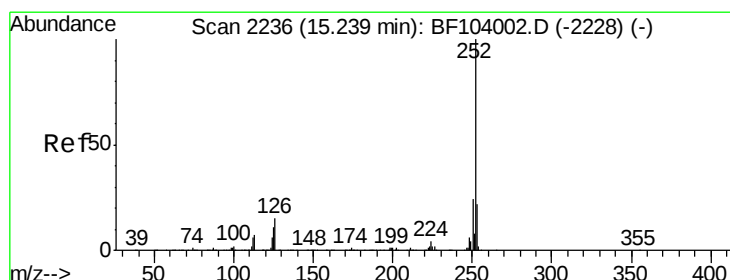
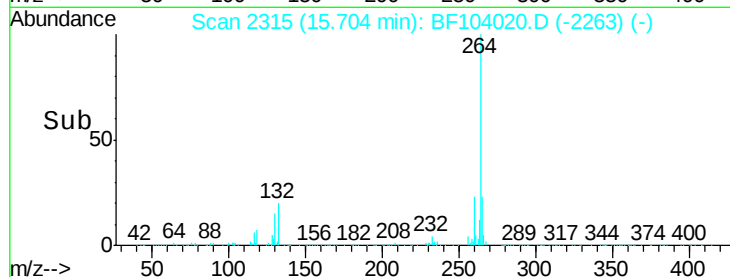
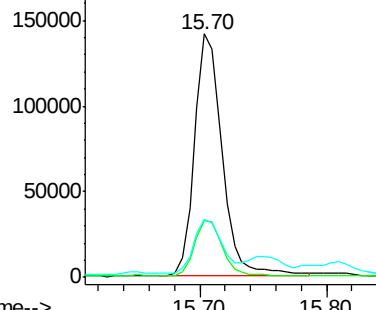
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.6	17.5	26.3

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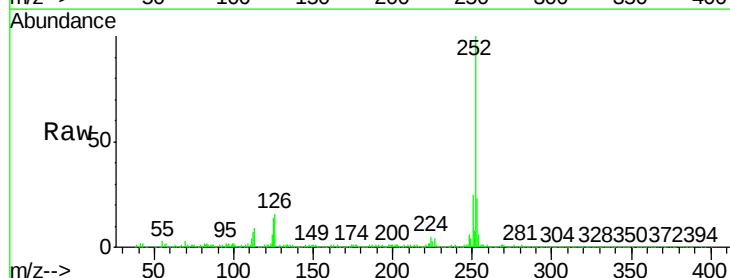


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

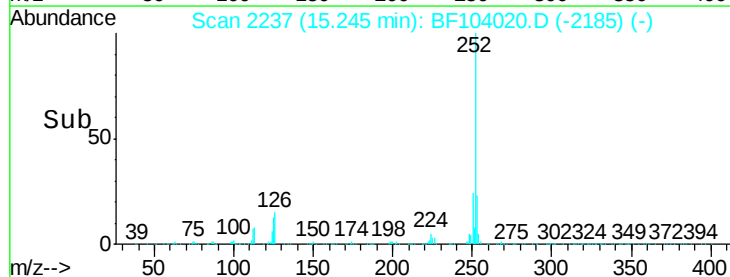
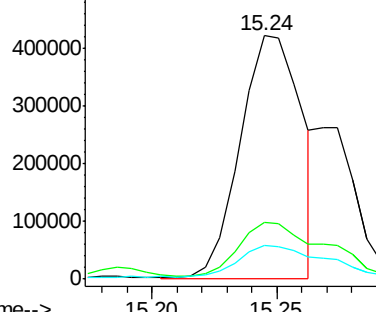


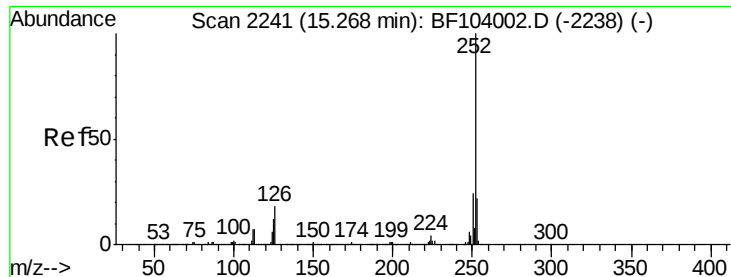
#87
Benzo(b)fluoranthene
Concen: 56.077 ng m
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	13.6	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





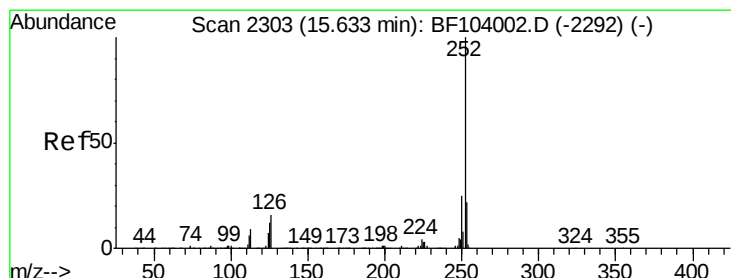
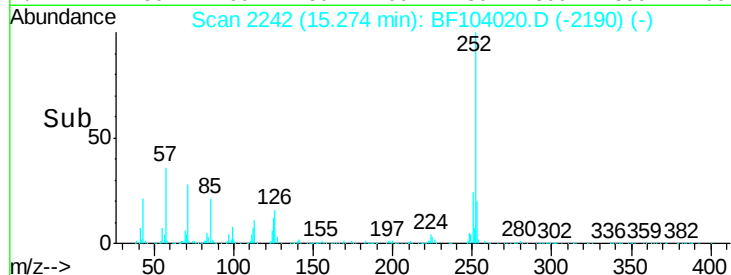
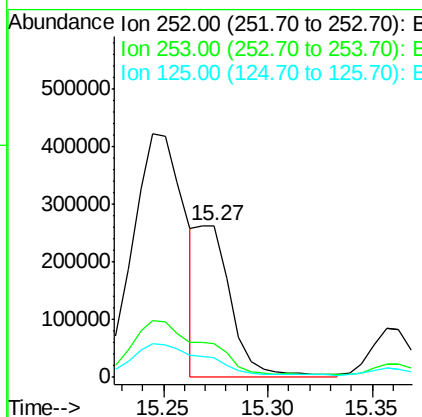
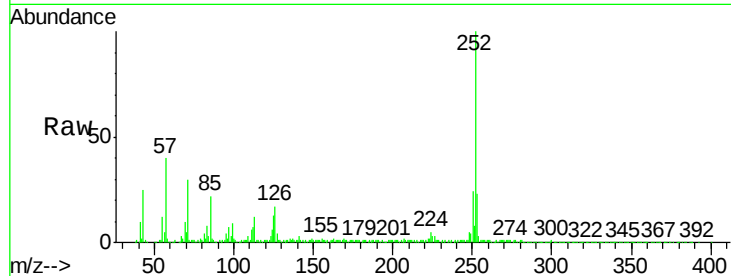
#88
Benzo(k)fluoranthene
Concen: 24.665 ng m
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	12.9	10.2	15.2

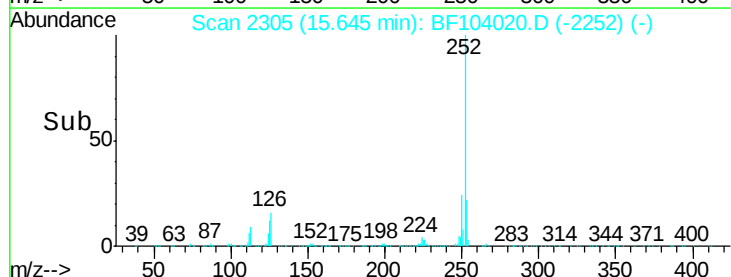
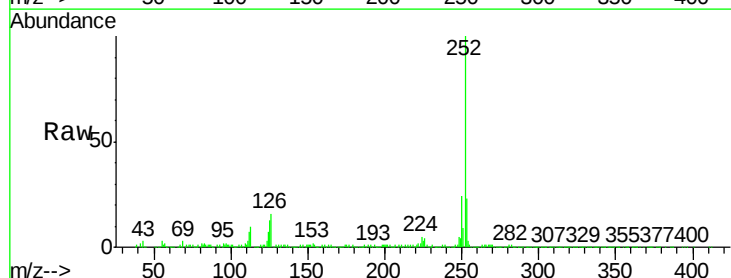
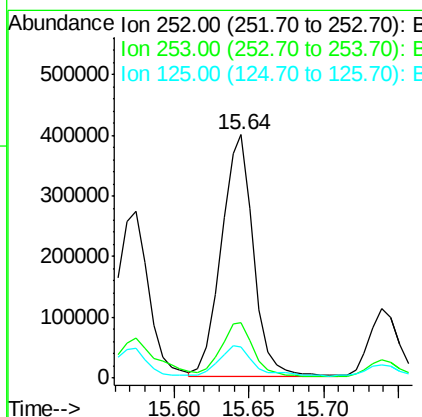
Manual Integrations
APPROVED

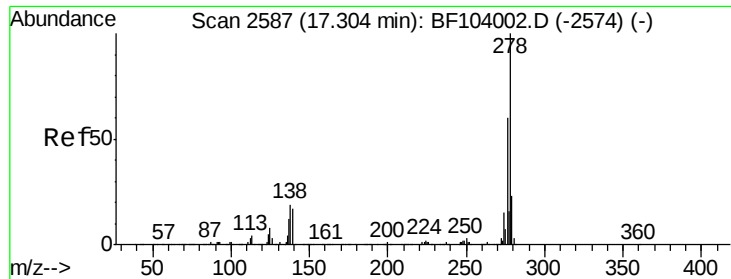
Sohil
3/29/2018 5:36:31 PM



#89
Benzo(a)pyrene
Concen: 49.885 ng
RT: 15.64 min Scan# 2305
Delta R.T. 0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	12.7	9.8	14.6





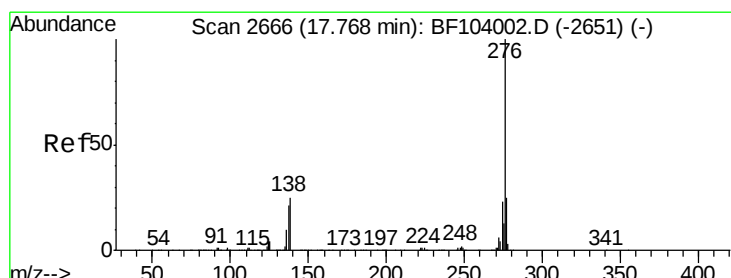
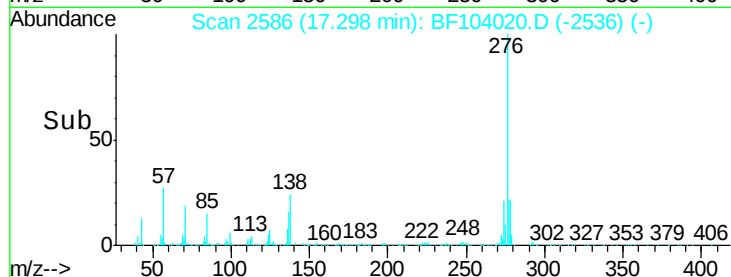
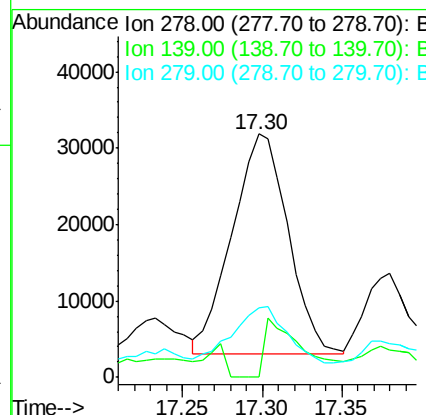
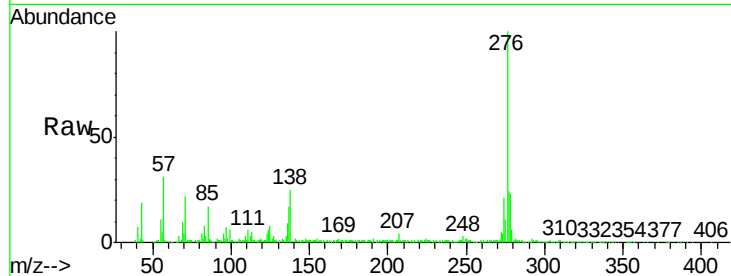
#90
Dibenzo(a,h)anthracene
Concen: 6.335 ng m
RT: 17.30 min Scan# 2586
Delta R.T. -0.01 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Instrument :
BNA_F
ClientSampleId :
TP-5-DB

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.8	19.0	28.4#

Manual Integrations
APPROVED

Sohil
3/29/2018 5:36:31 PM



#91
Benzo(g,h,i)perylene
Concen: 28.885 ng
RT: 17.79 min Scan# 2669
Delta R.T. 0.02 min
Lab File: BF104020.D
Acq: 28 Mar 2018 19:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	25.3	21.8	32.8

