

Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
 Data File : BF102419.D
 Acq On : 25 Jan 2018 12:04
 Operator : SJ/JU
 Sample : J1256-07 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DB-OF-N-S-(EW0-4)

Manual Integrations
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Sohil
 1/25/2018 5:42:04 PM

Quant Time: Jan 25 14:09:28 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 25 13:44:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	115105	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	418895	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	151656	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	232953	20.00	ng	0.00
75) Chrysene-d12	13.90	240	126880	20.00	ng	0.02
86) Perylene-d12	15.38	264	136112	20.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	381192	50.21	ng	0.00
7) Phenol-d6	6.35	99	436591	47.70	ng	-0.02
23) Nitrobenzene-d5	7.27	82	244179	33.50	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	61892	41.19	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	401125	38.89	ng	-0.01
78) Terphenyl-d14	12.83	244	252235	44.82	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.36	94	26496	2.652	ng	83
31) Naphthalene	8.02	128	233494	11.164	ng	99
37) 2-Methylnaphthalene	8.71	142	84241	6.048	ng	94
49) Dimethylphthalate	9.47	163	74047	5.907	ng	99
51) Acenaphthene	9.78	154	159194	16.599	ng	98
54) Dibenzofuran	9.95	168	135886	10.469	ng	99
57) Fluorene	10.30	166	187229	18.204	ng	99
70) Phenanthrene	11.27	178	1277344	94.098	ng	99
71) Anthracene	11.32	178	400488	28.905	ng	99
72) Carbazole	11.47	167	201330	14.894	ng	98
74) Fluoranthene	12.47	202	1283271	92.703	ng	97
77) Pyrene	12.70	202	1125669	114.748	ng	99
80) Benzo(a)anthracene	13.90	228	463764	59.369	ng	97
82) Chrysene	13.93	228	381740	48.123	ng	97
85) Indeno(1,2,3-cd)pyrene	16.80	276	266061	40.612	ng	96
87) Benzo(b)fluoranthene	14.96	252	490187m	55.564	ng	
88) Benzo(k)fluoranthene	14.97	252	139263m	16.708	ng	
89) Benzo(a)pyrene	15.32	252	331599	41.676	ng	# 74
90) Dibenzo(a,h)anthracene	16.80	278	67915	10.537	ng	# 62
91) Benzo(a,h,i)perylene	17.23	276	265964	41.792	ng	93

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

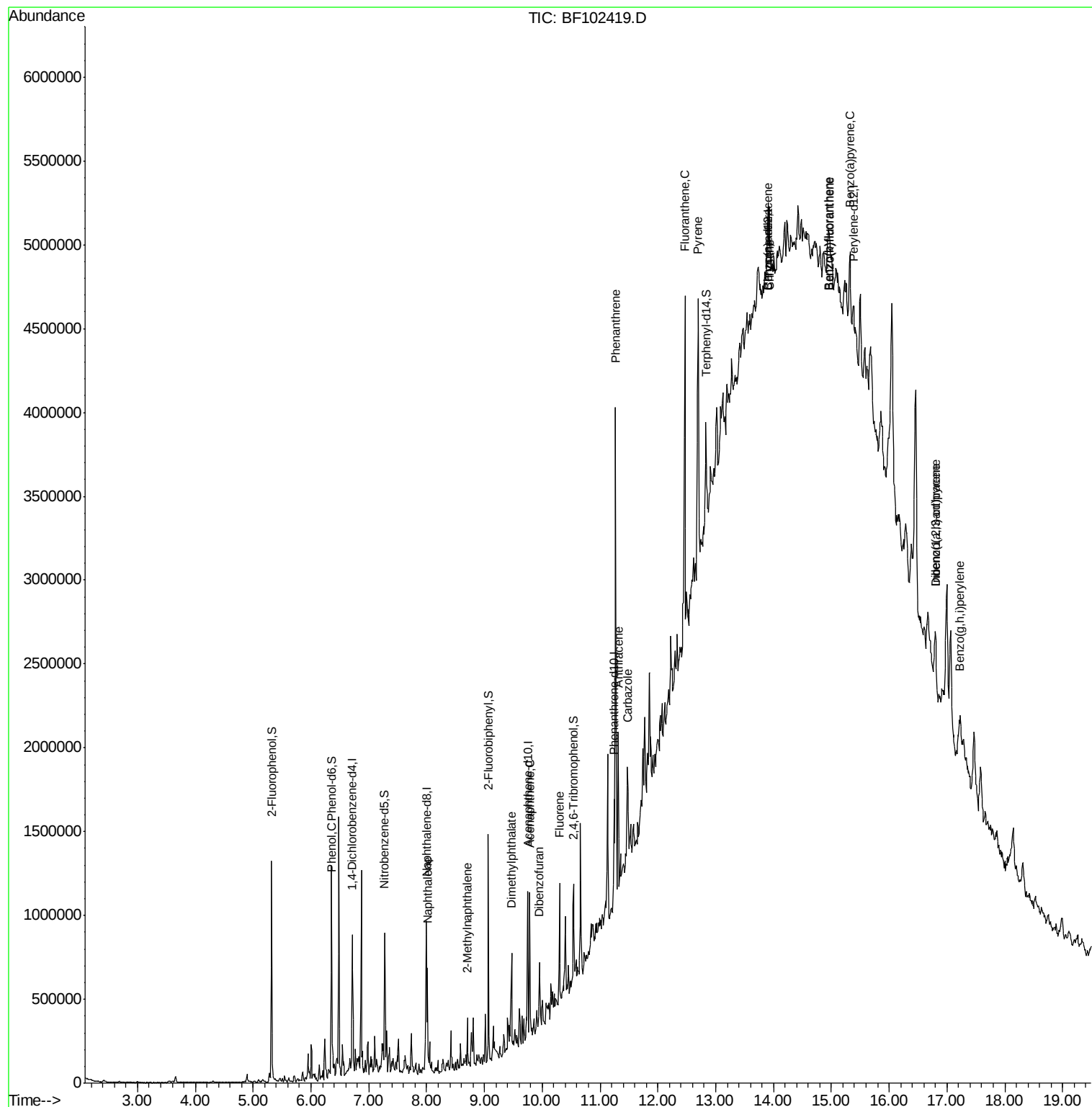
Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
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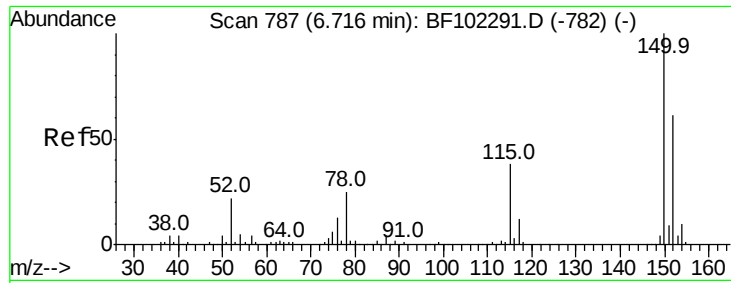
Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(EW0-4)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

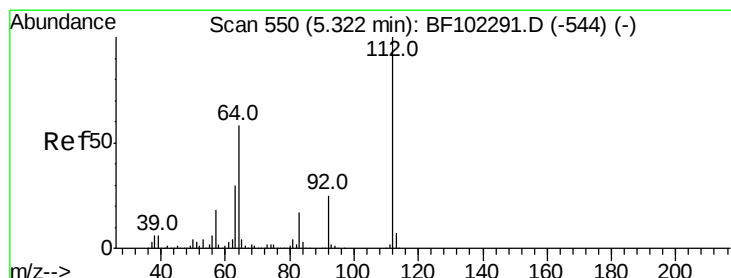
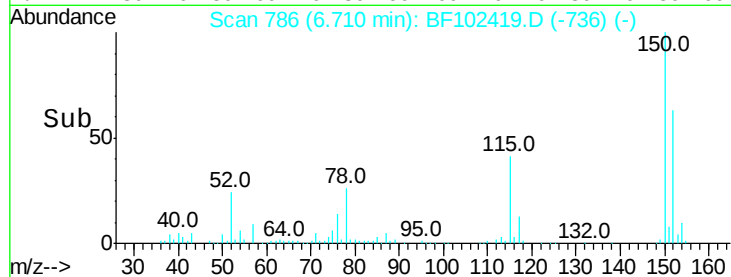
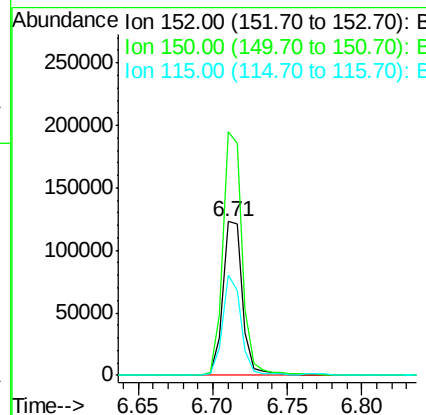
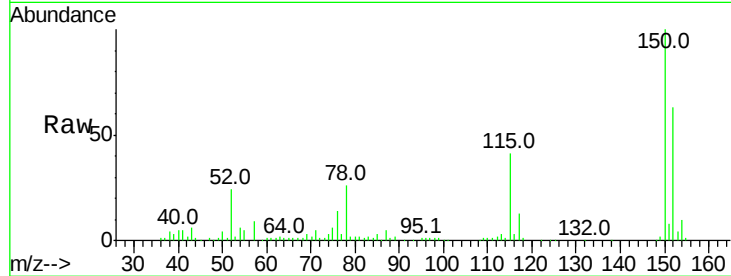
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.71 min Scan# 786
 Delta R.T. -0.01 min
 Lab File: BF102419.D
 Acq: 25 Jan 2018 12:04

Instrument :
 BNA_F
 ClientSampleID :
 DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.6	186.8
115	65.1	50.1	75.1

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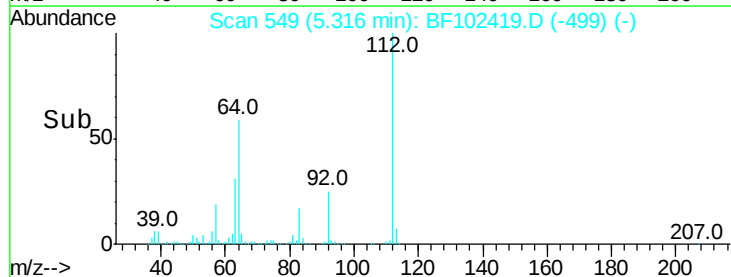
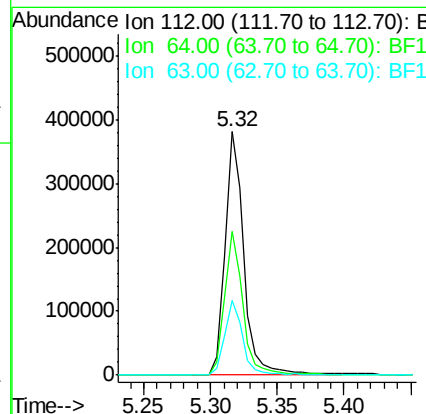
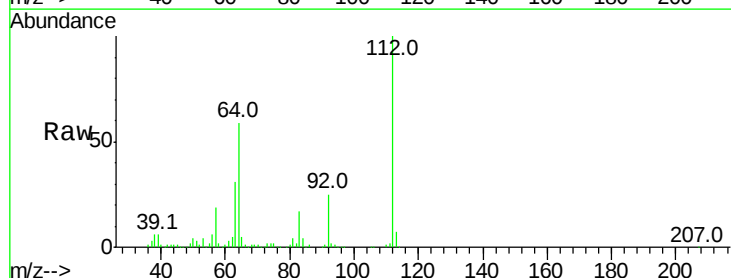
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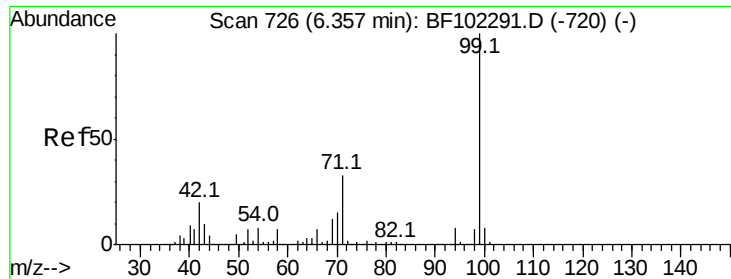


#5

2-Fluorophenol
 Concen: 50.214 ng
 RT: 5.32 min Scan# 549
 Delta R.T. -0.01 min
 Lab File: BF102419.D
 Acq: 25 Jan 2018 12:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.9	71.9
63	30.8	23.7	35.5





#7

Phenol-d6

Concen: 47.704 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

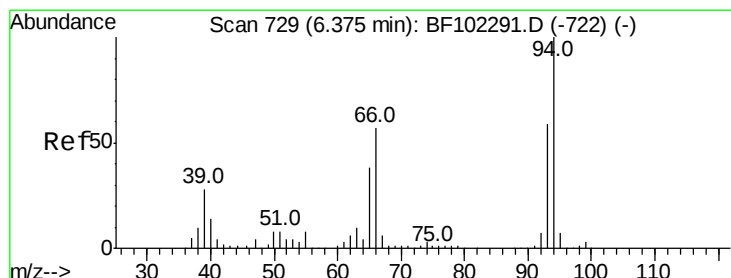
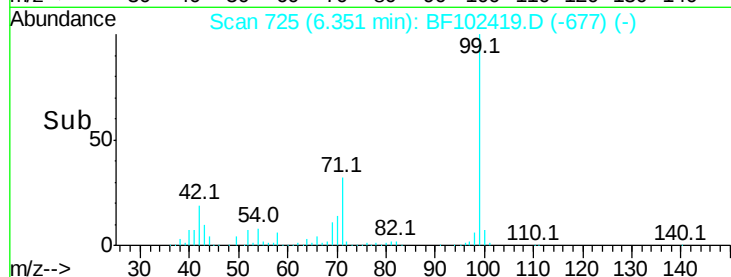
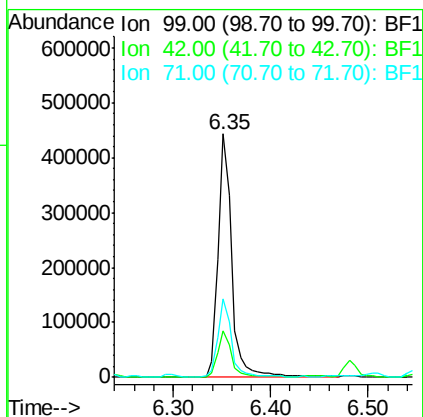
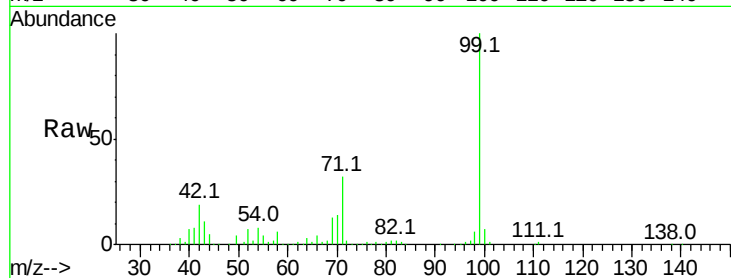
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:	99	Resp:	436591
Ion Ratio	Lower	Upper	
99	100		
42	19.2	14.5	21.7
71	32.2	25.4	38.0

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#10

Phenol

Concen: 2.652 ng

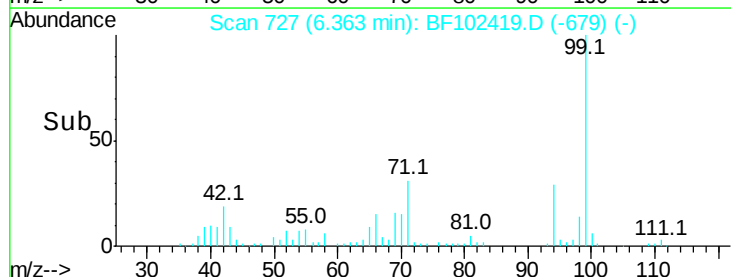
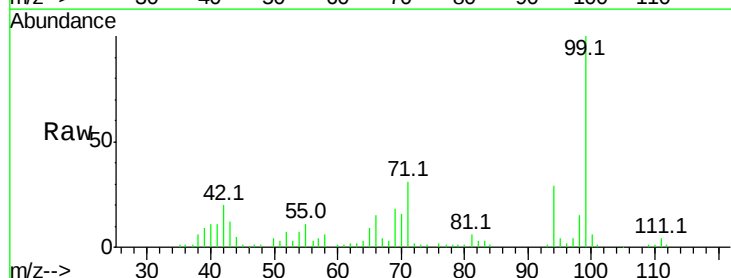
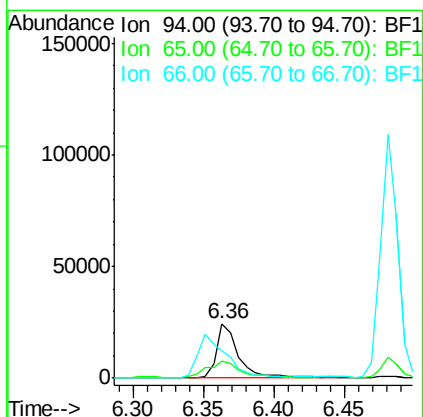
RT: 6.36 min Scan# 727

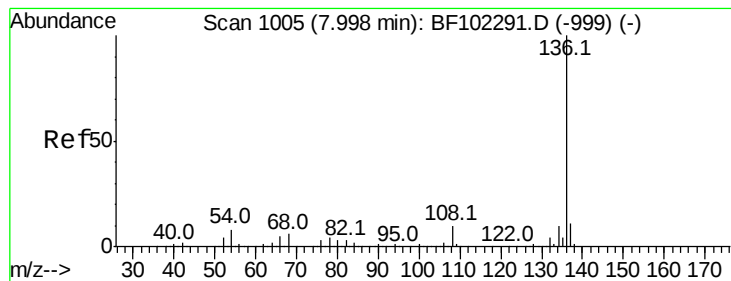
Delta R.T. -0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	94	Resp:	26496
Ion Ratio	Lower	Upper	
94	100		
65	31.3	7.9	47.9
66	50.8	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

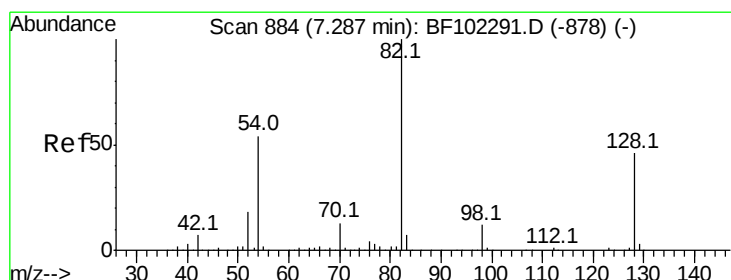
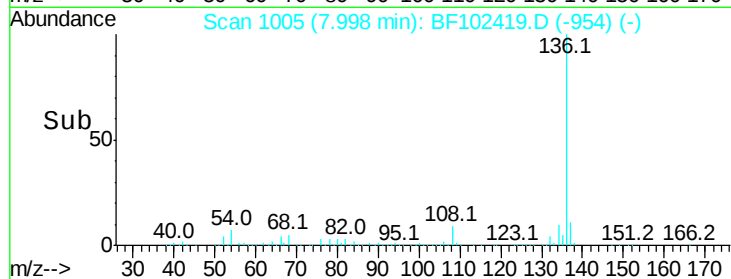
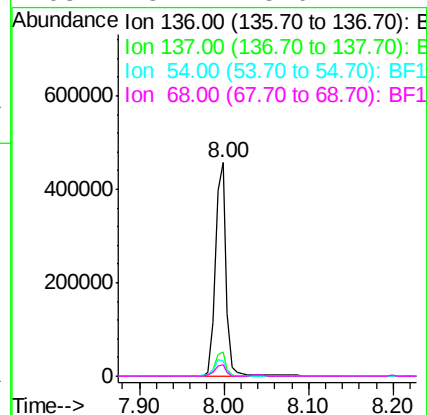
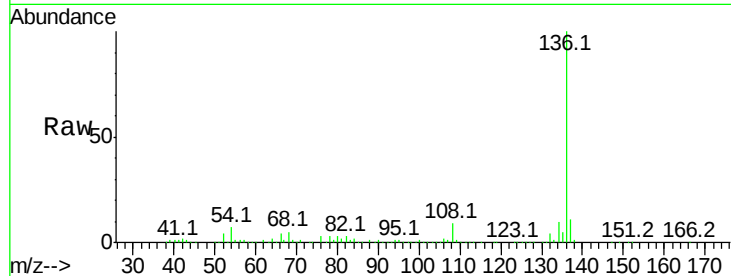
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	8.9	13.3	
54	7.4	6.6	9.8	
68	5.2	5.0	7.4	

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#23

Nitrobenzene-d5

Concen: 33.498 ng

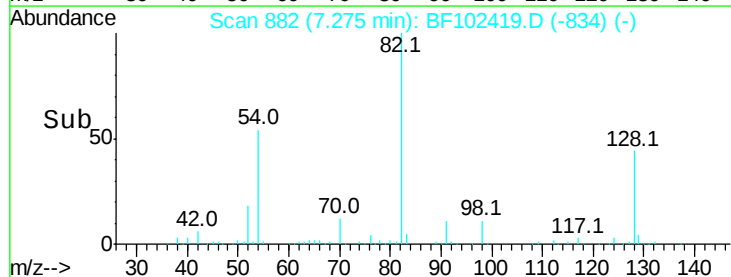
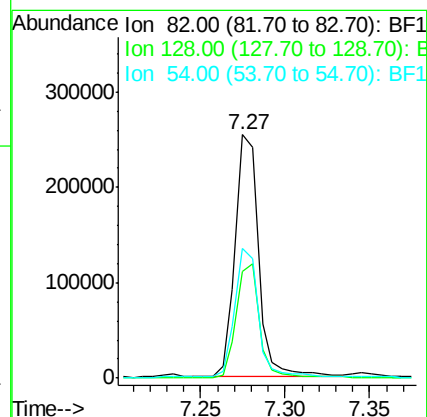
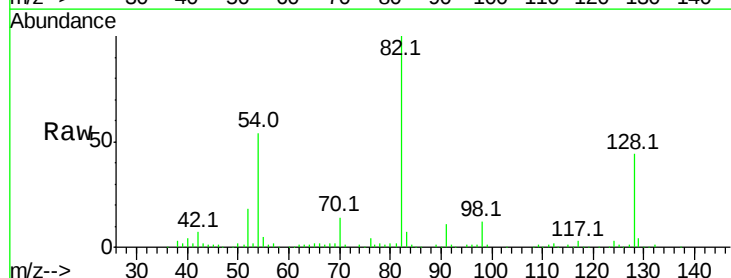
RT: 7.27 min Scan# 882

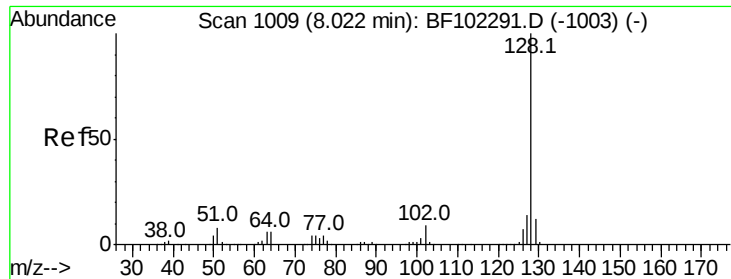
Delta R.T. -0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.7	36.1	54.1	
54	53.5	41.4	62.2	





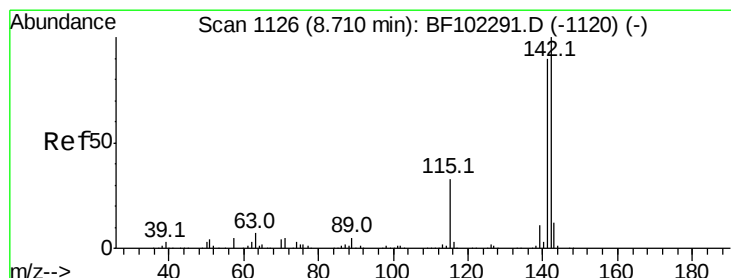
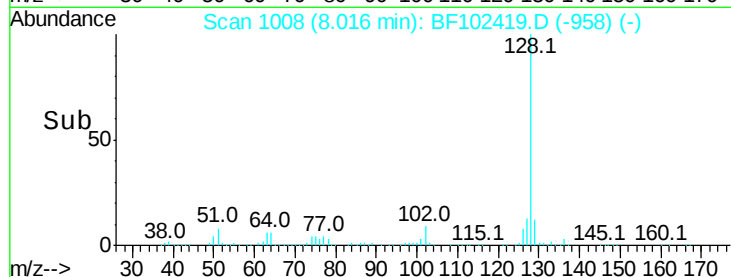
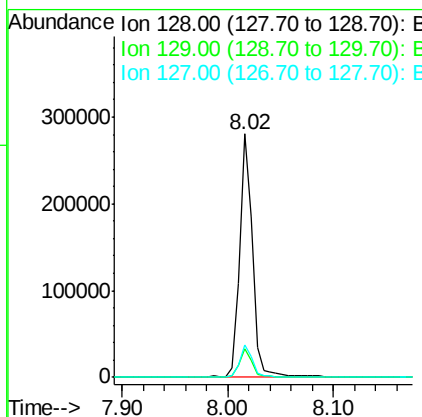
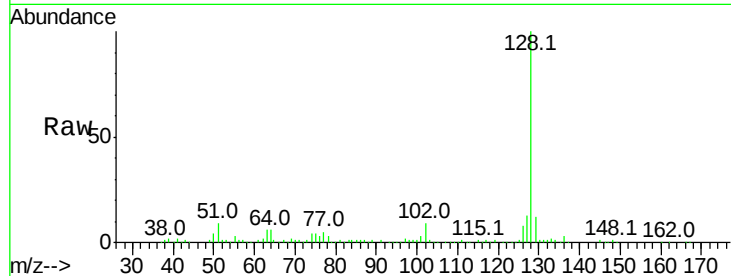
#31
Naphthalene
Concen: 11.164 ng
RT: 8.02 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Resp	Lower	Upper
128	100	233494		
129	11.8	8.8	13.2	
127	13.3	10.9	16.3	

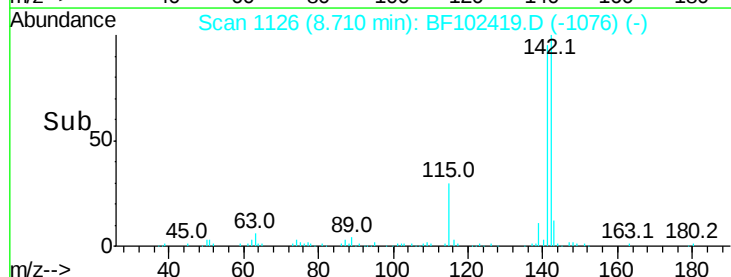
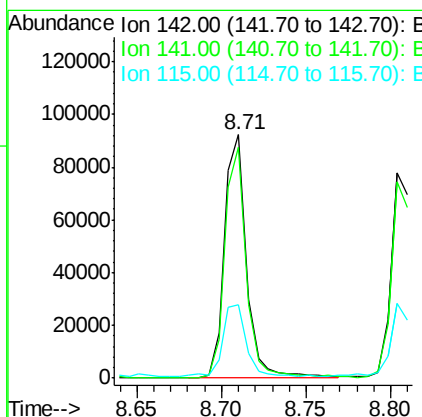
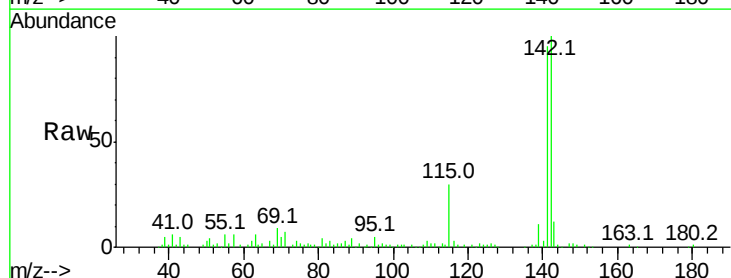
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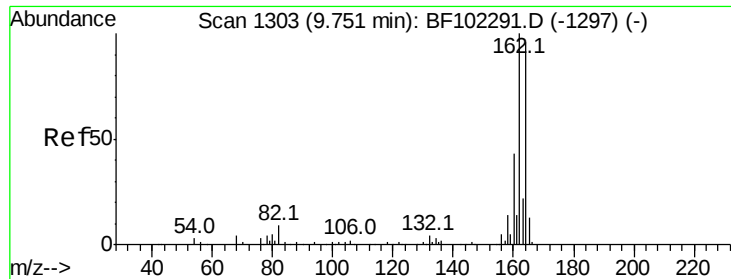
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#37
2-Methylnaphthalene
Concen: 6.048 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	84241		
141	94.9	70.8	106.2	
115	30.4	26.1	39.1	





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:164 Resp: 151656

Ion Ratio Lower Upper

164 100

162 104.0 86.1 129.1

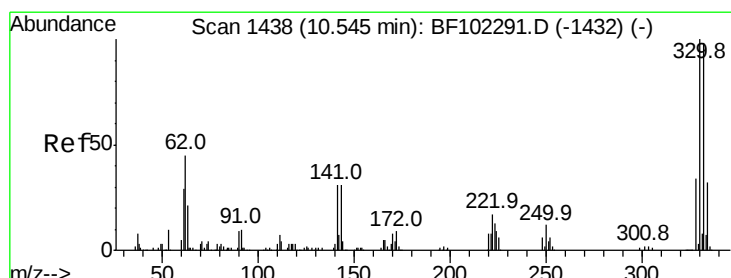
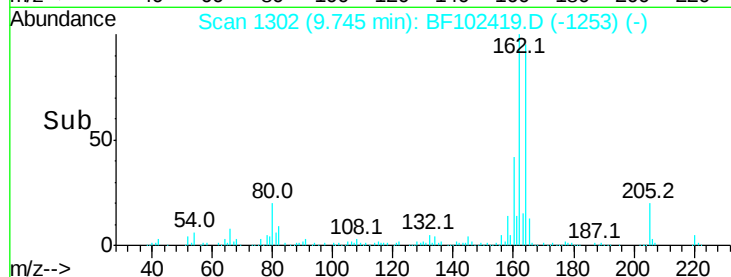
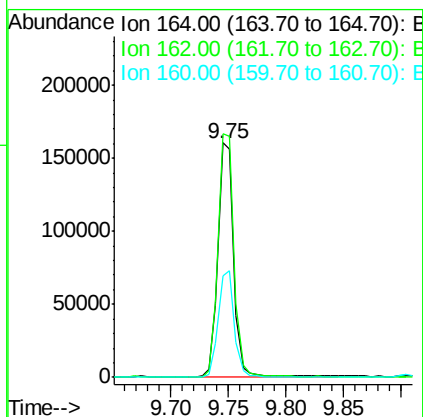
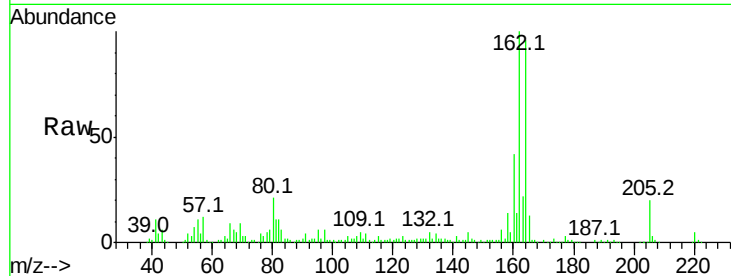
160 43.4 38.3 57.5

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#41

2,4,6-Tribromophenol

Concen: 41.187 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

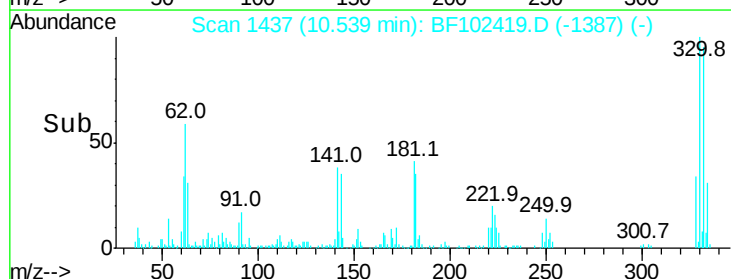
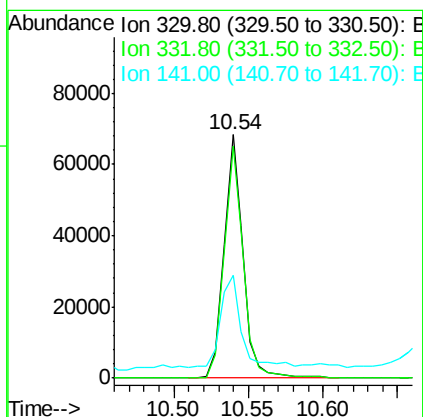
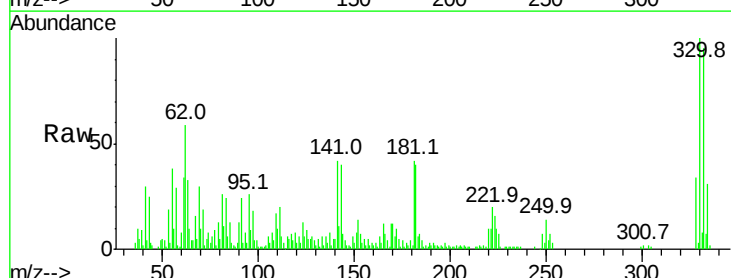
Tgt Ion:330 Resp: 61892

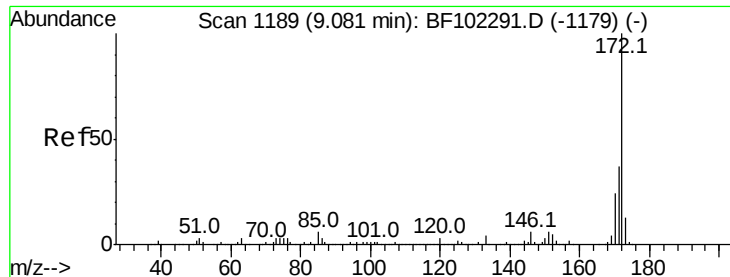
Ion Ratio Lower Upper

330 100

332 96.3 77.0 115.6

141 40.4 29.9 44.9





#44

2-Fluorobiphenyl

Concen: 38.890 ng

RT: 9.07 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

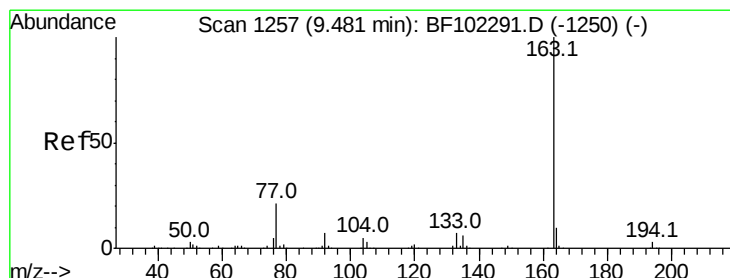
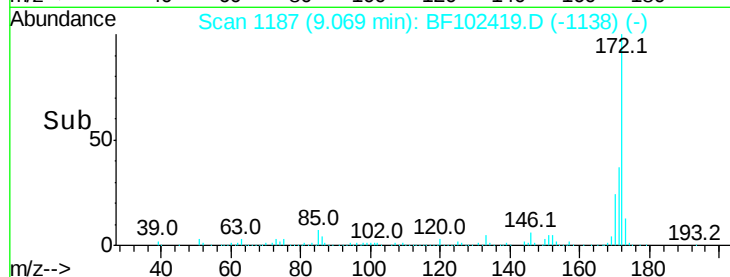
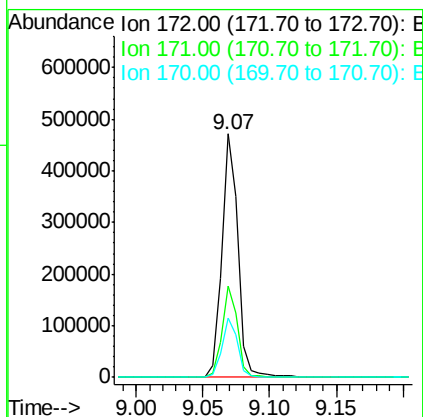
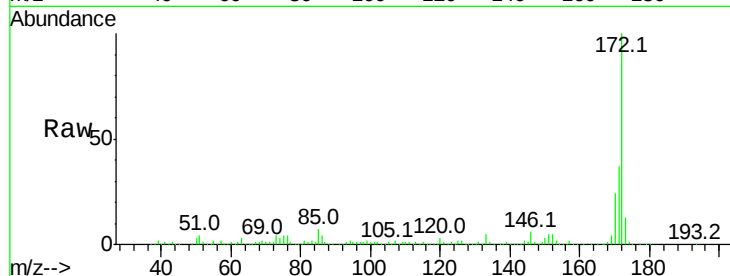
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:	172	Resp:	401125
Ion Ratio	Lower	Upper	
172	100		
171	37.2	29.7	44.5
170	24.4	19.6	29.4

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#49

Dimethylphthalate

Concen: 5.907 ng

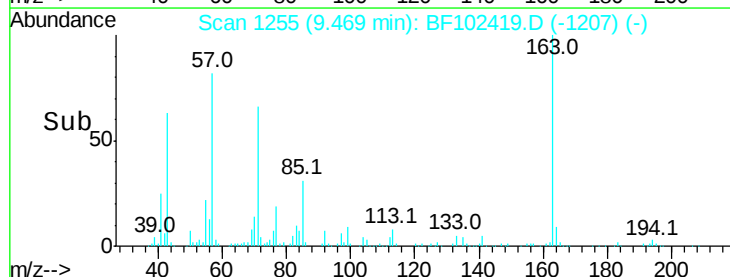
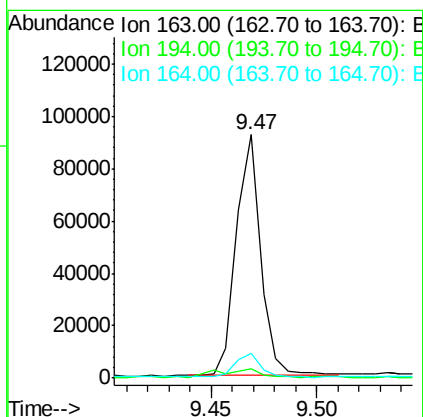
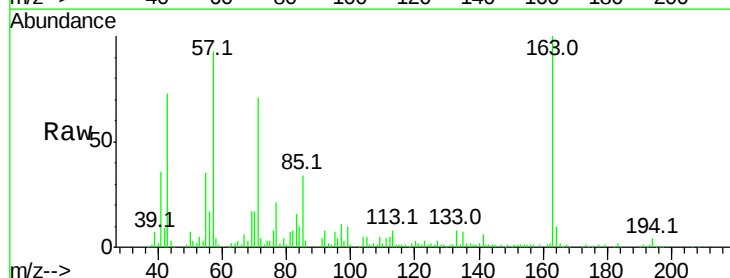
RT: 9.47 min Scan# 1255

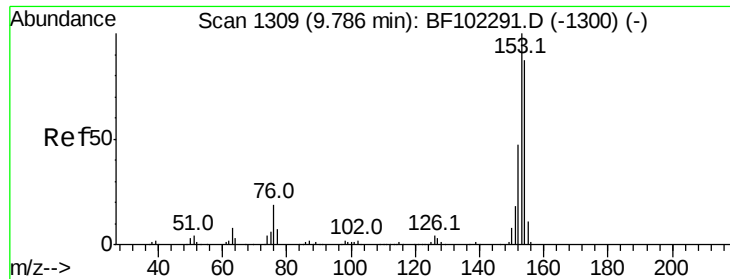
Delta R.T. -0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	163	Resp:	74047
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.7	4.1
164	9.9	8.2	12.2





#51

Acenaphthene

Concen: 16.599 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

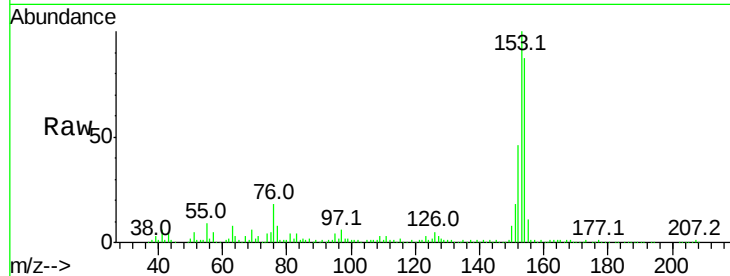
ClientSampleId :

DB-OF-N-S-(EW0-4)

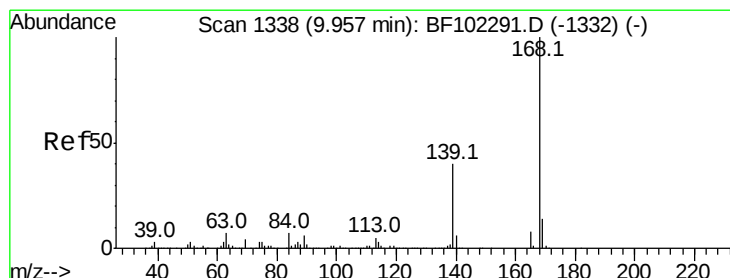
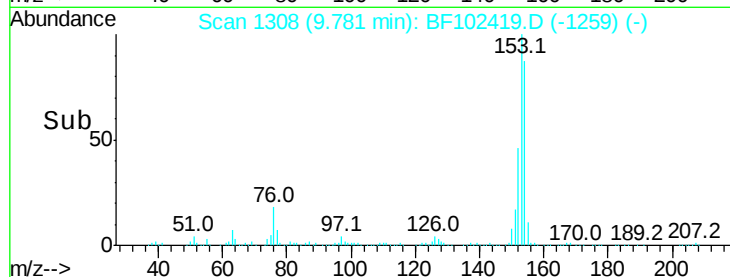
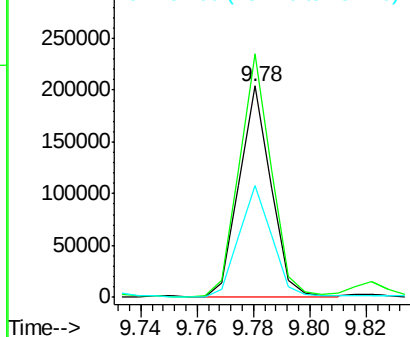
Tot Ion:	154	Resp:	159194
Ion Ratio	Lower	Upper	
154	100		
153	115.1	91.2	136.8
152	52.9	43.8	65.8

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



#54

Dibenzofuran

Concen: 10.469 ng

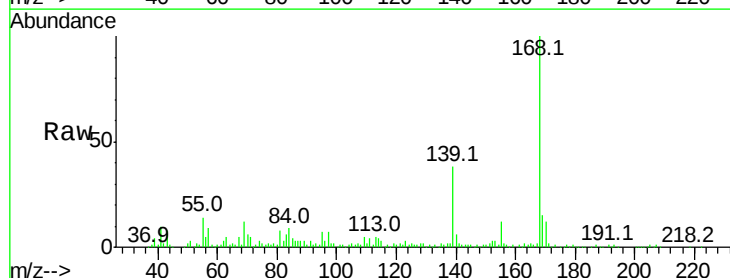
RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

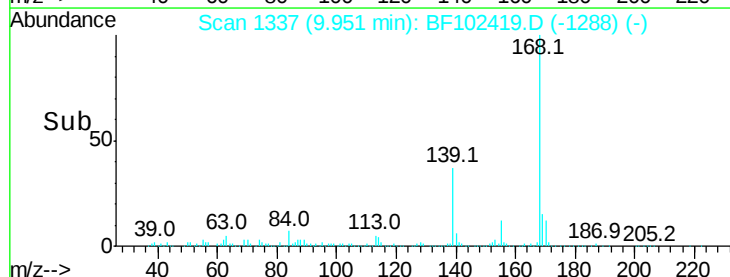
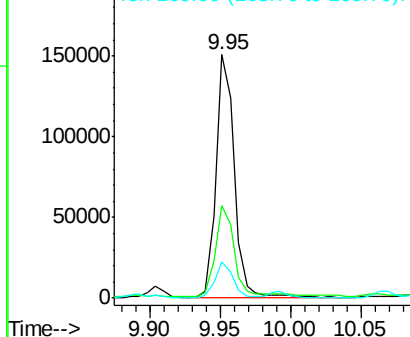
Lab File: BF102419.D

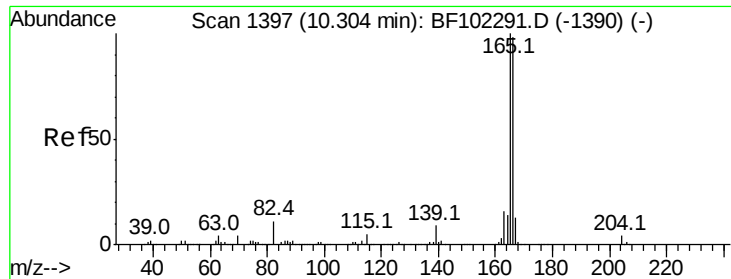
Acq: 25 Jan 2018 12:04

Tgt Ion:	168	Resp:	135886
Ion Ratio	Lower	Upper	
168	100		
139	38.1	30.1	45.1
169	14.9	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: 18.204 ng

RT: 10.30 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

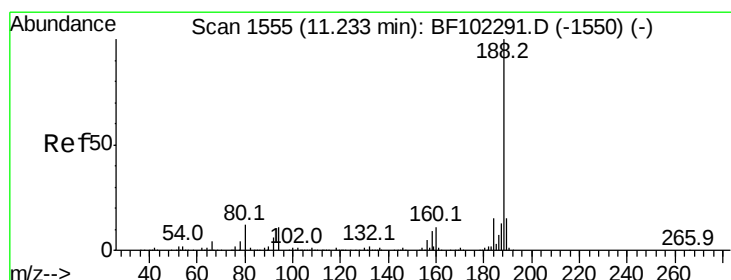
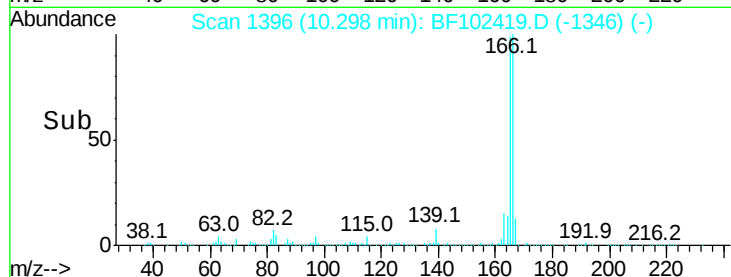
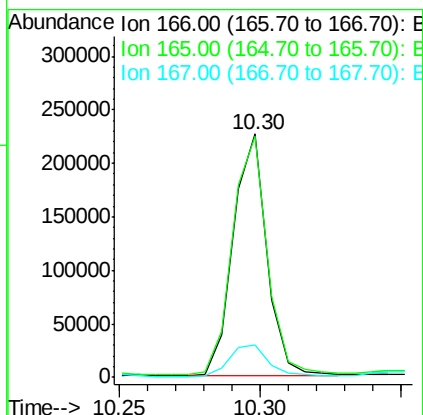
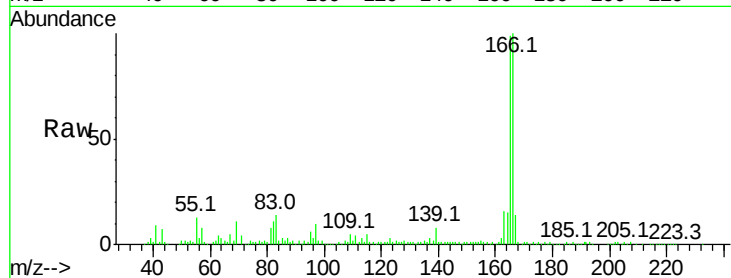
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:	166	Resp:	187229
Ion Ratio	Lower	Upper	
166	100		
165	99.2	79.8	119.8
167	13.5	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

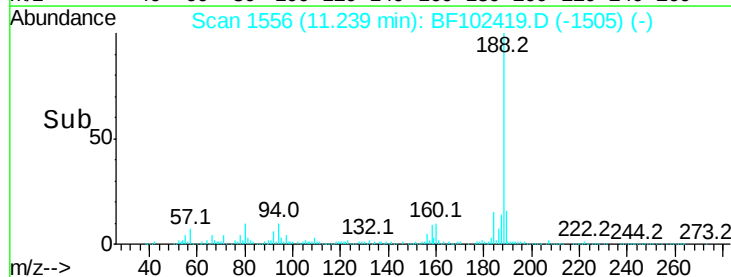
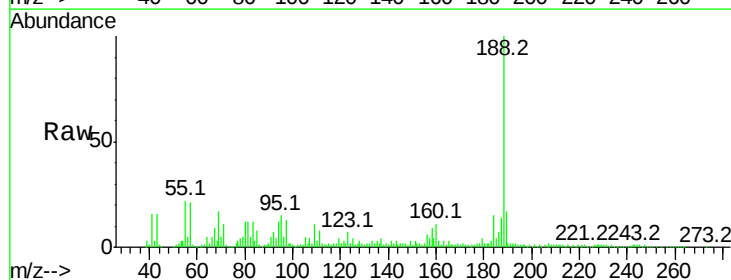
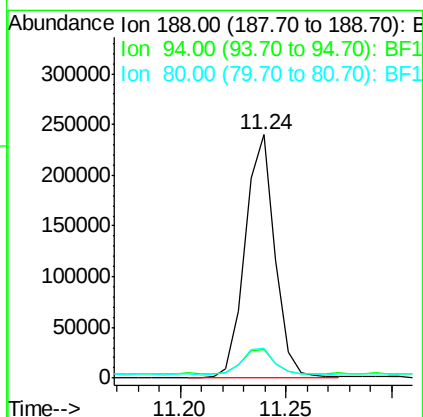
RT: 11.24 min Scan# 1556

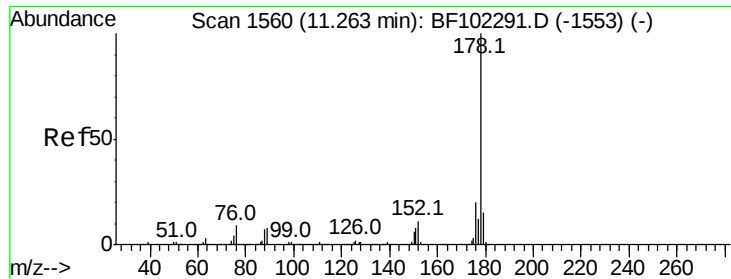
Delta R.T. 0.00 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	188	Resp:	232953
Ion Ratio	Lower	Upper	
188	100		
94	11.5	8.5	12.7
80	12.2	9.2	13.8





#70

Phenanthrene

Concen: 94.098 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:178 Resp: 1277344

Ion Ratio Lower Upper

178 100

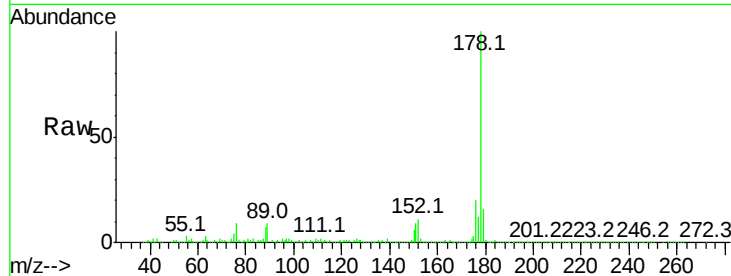
176 20.1 15.8 23.8

179 15.7 13.0 19.6

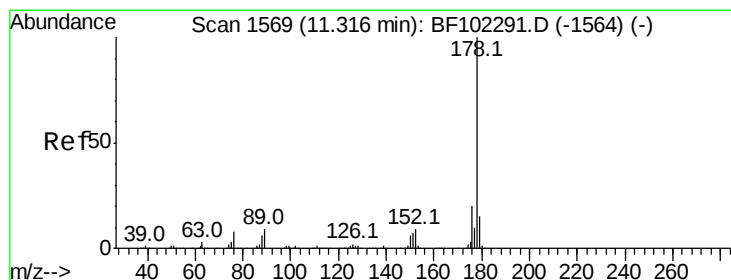
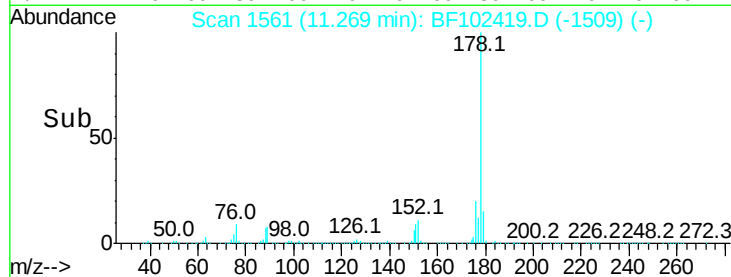
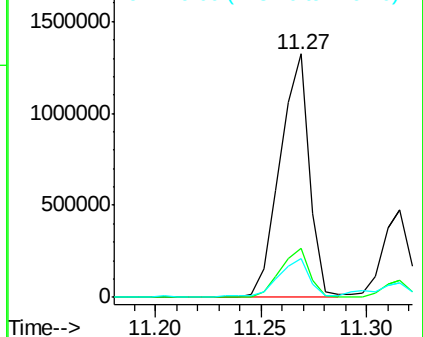
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 28.905 ng

RT: 11.32 min Scan# 1569

Delta R.T. 0.00 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:178 Resp: 400488

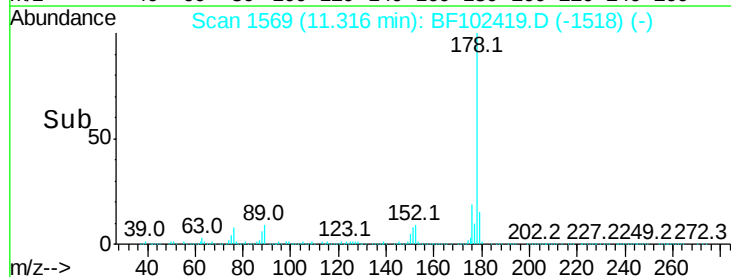
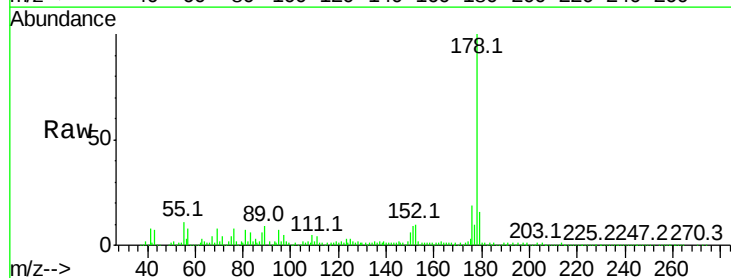
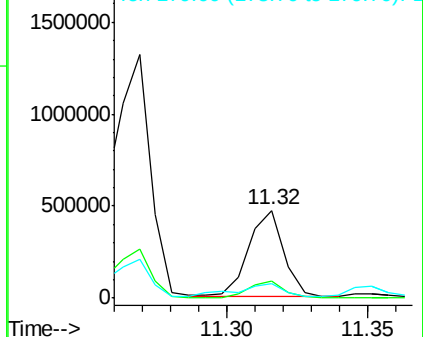
Ion Ratio Lower Upper

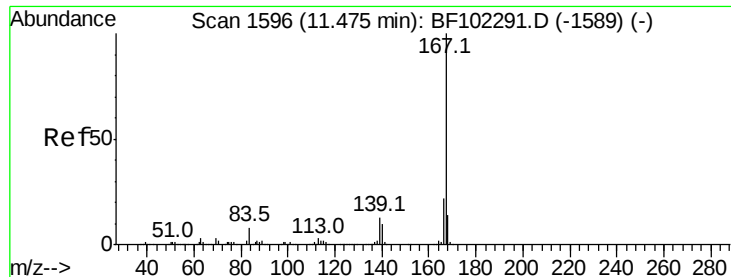
178 100

176 19.1 15.4 23.2

179 16.1 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: 14.894 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

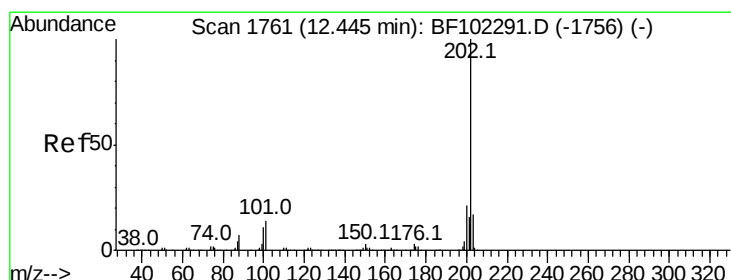
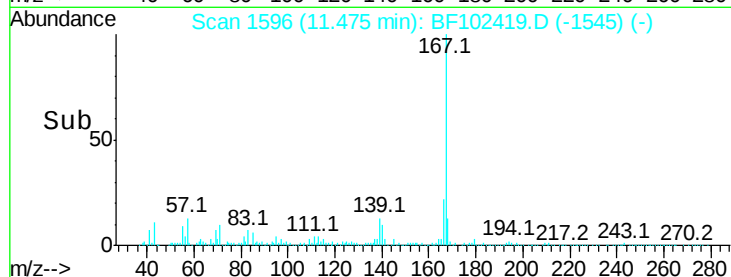
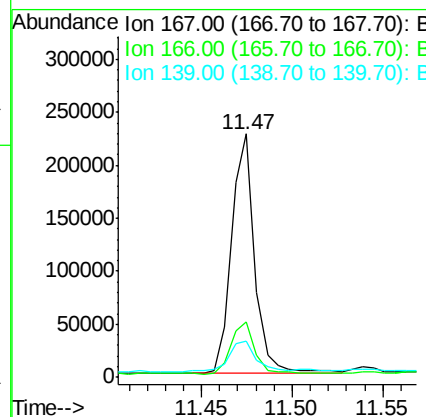
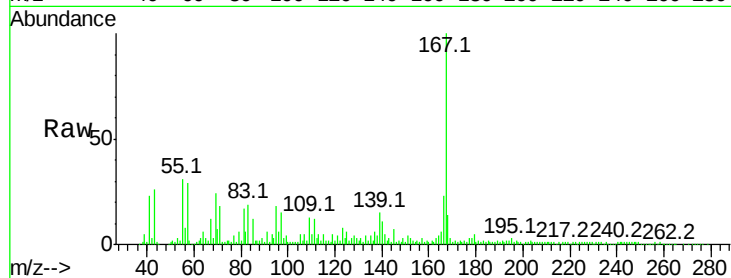
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion	167	Resp	201330
Ion Ratio	Lower	Upper	
167	100		
166	22.9	17.6	26.4
139	14.9	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 92.703 ng

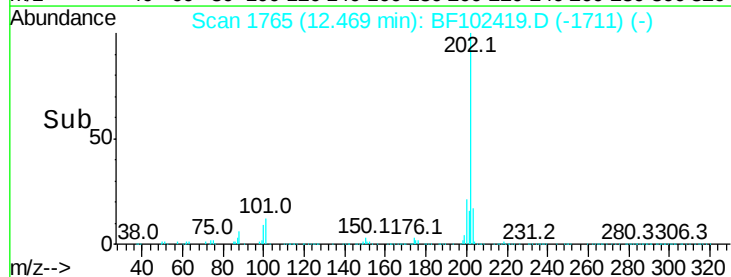
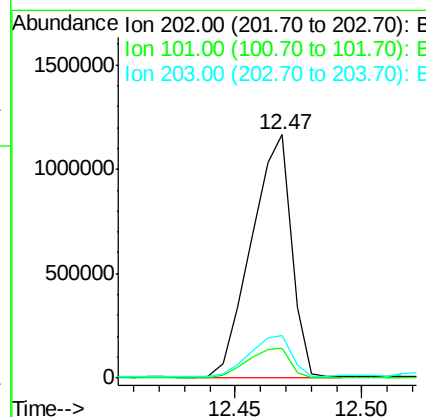
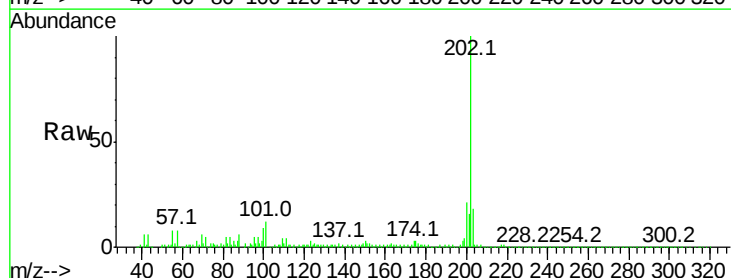
RT: 12.47 min Scan# 1765

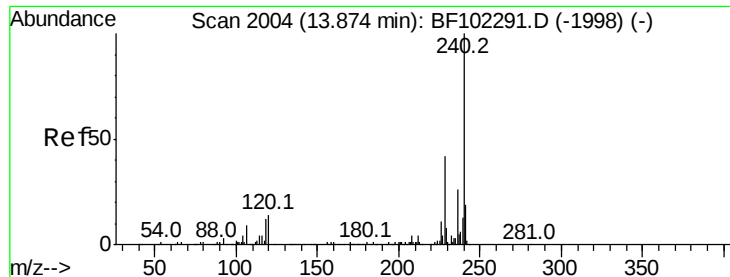
Delta R.T. 0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion	202	Resp	1283271
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	34.1
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

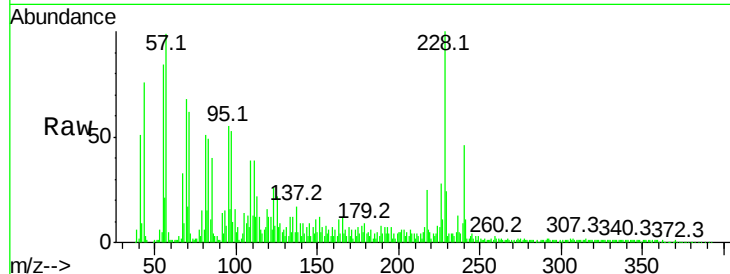
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	126880		
120	25.7	9.5	14.3	
236	28.5	20.7	31.1	

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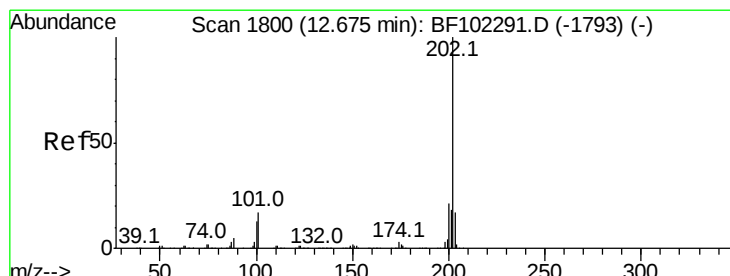
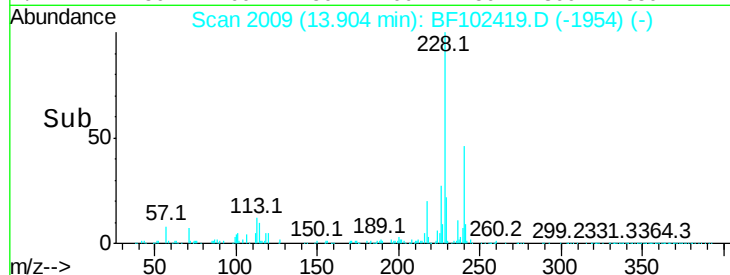
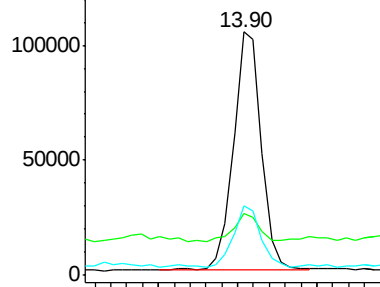
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 114.748 ng

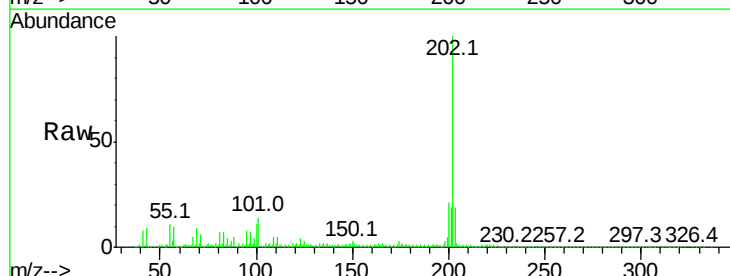
RT: 12.70 min Scan# 1804

Delta R.T. 0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

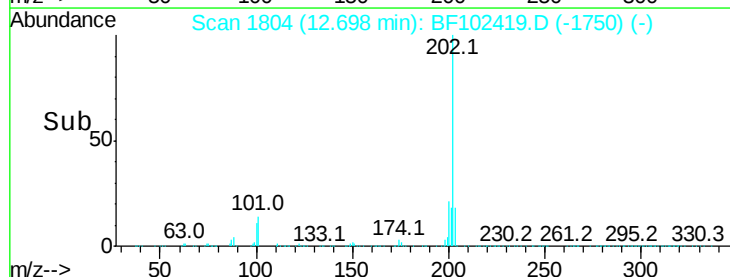
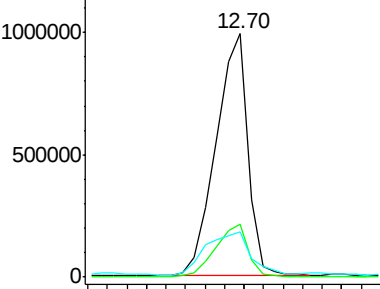
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1125669		
200	21.5	17.4	26.2	
203	18.6	14.3	21.5	

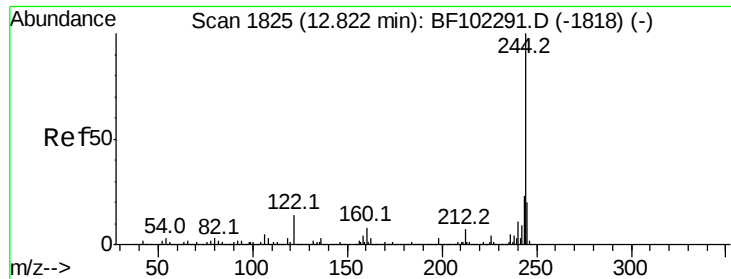


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.816 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

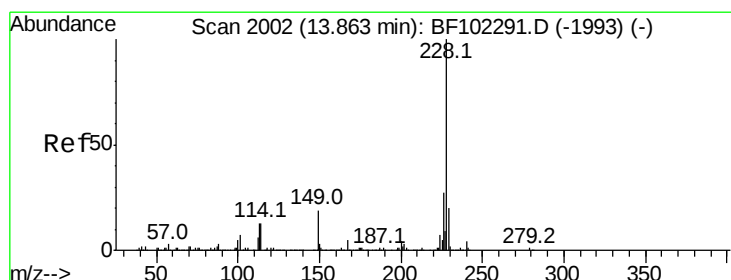
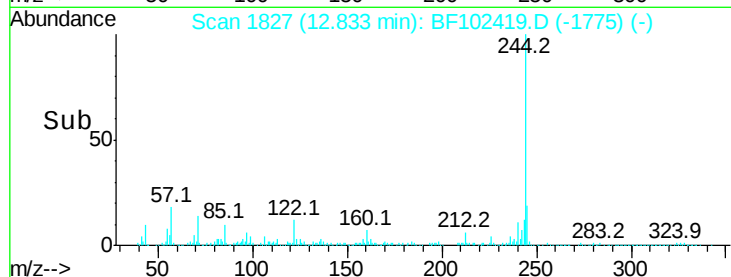
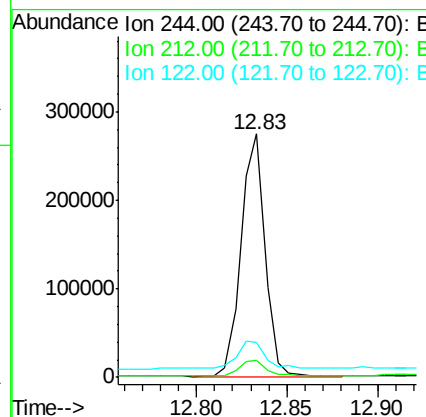
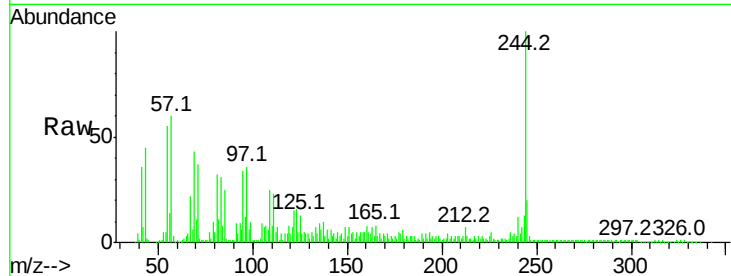
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:	244	Resp:	252235
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.0
122	14.6	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 59.369 ng

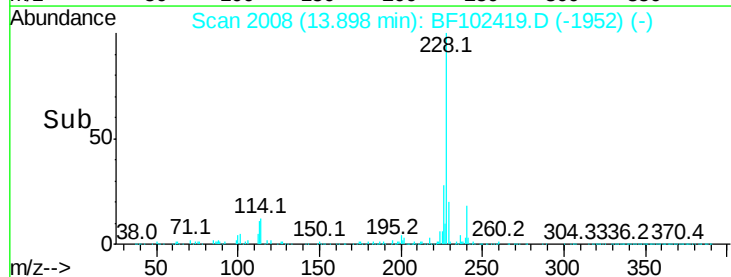
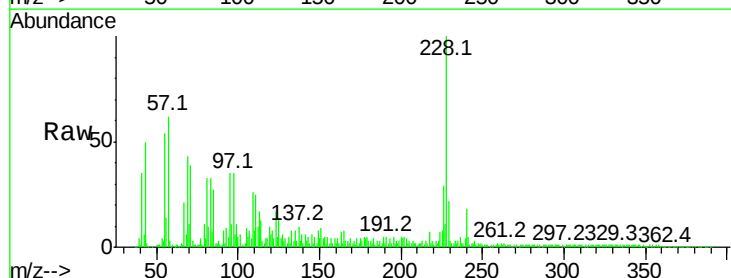
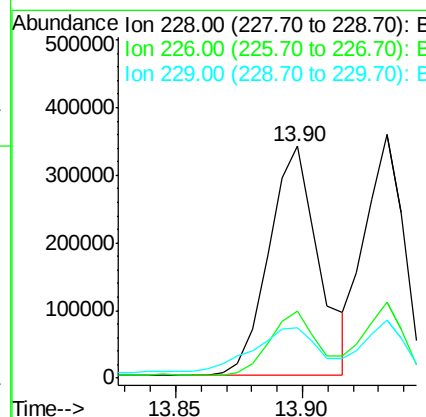
RT: 13.90 min Scan# 2008

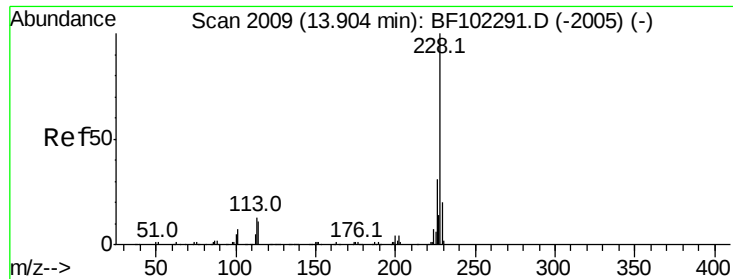
Delta R.T. 0.03 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	228	Resp:	463764
Ion Ratio	Lower	Upper	
228	100		
226	29.0	22.6	33.8
229	21.9	15.8	23.6





#82

Chrysene

Concen: 48.123 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.02 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

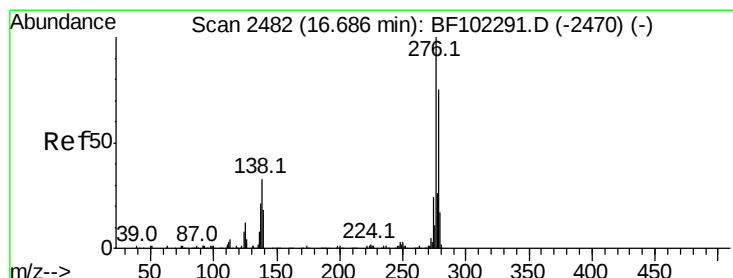
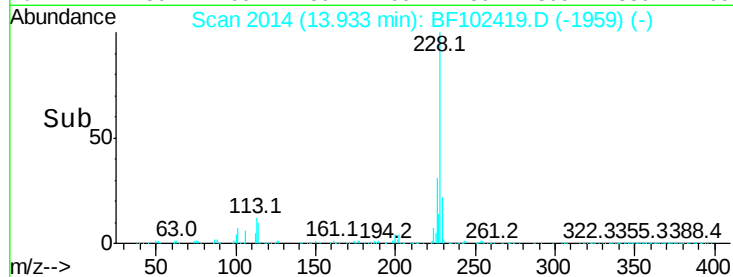
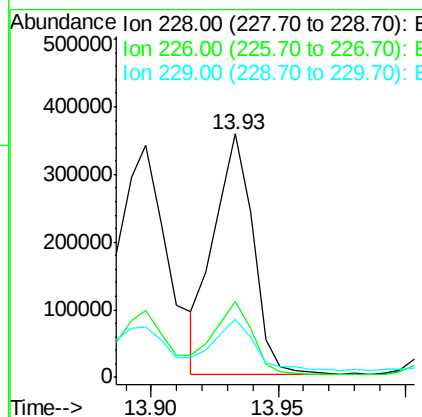
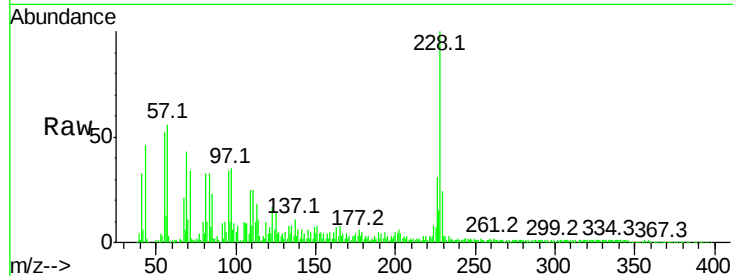
ClientSampleId :

DB-OF-N-S-(EW0-4)

Tot Ion:	228	Resp:	381740
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.6
229	23.8	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 40.612 ng

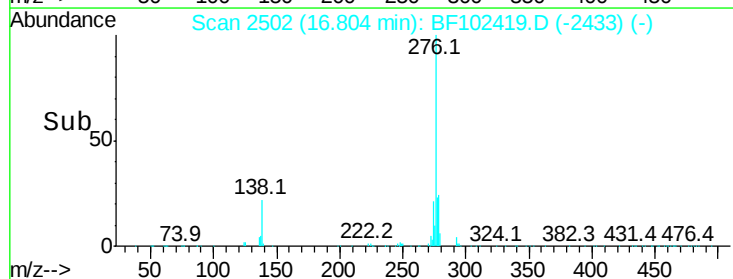
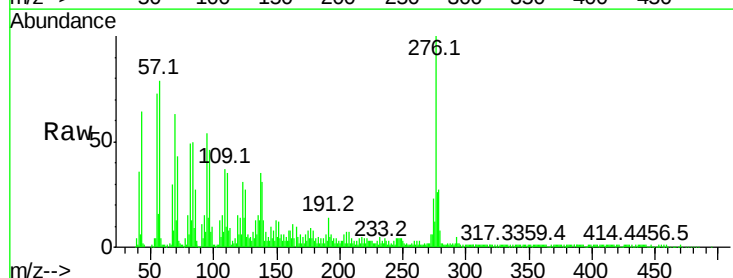
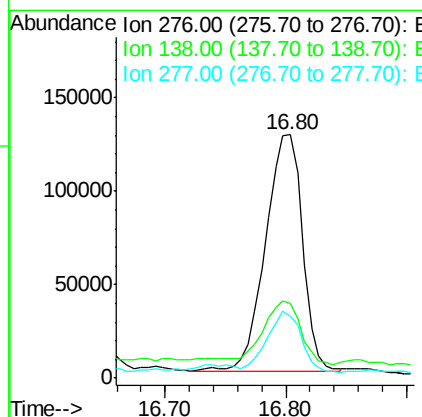
RT: 16.80 min Scan# 2502

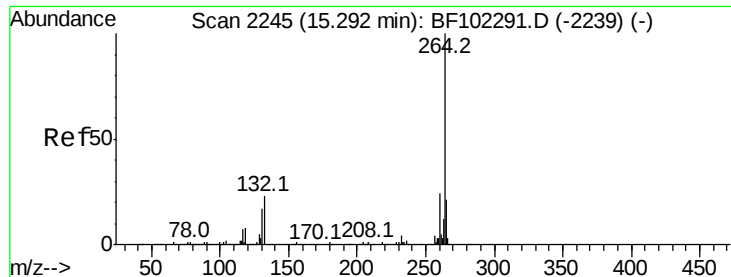
Delta R.T. 0.11 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	276	Resp:	266061
Ion Ratio	Lower	Upper	
276	100		
138	28.1	25.0	37.6
277	23.9	20.1	30.1





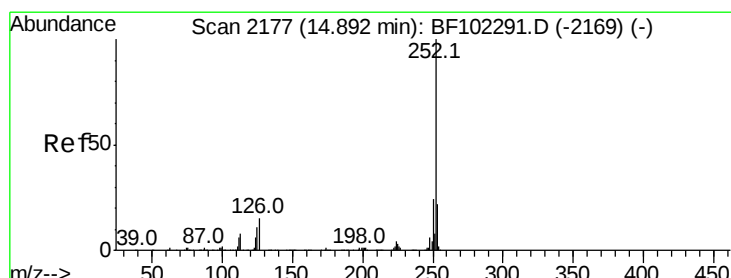
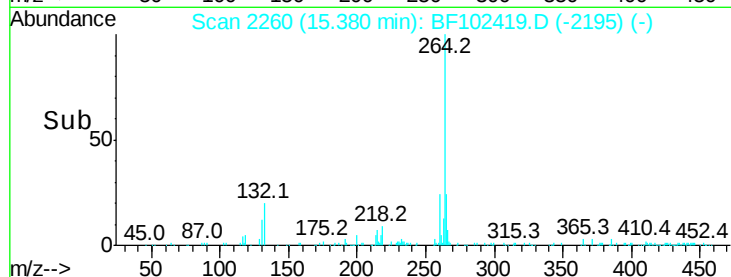
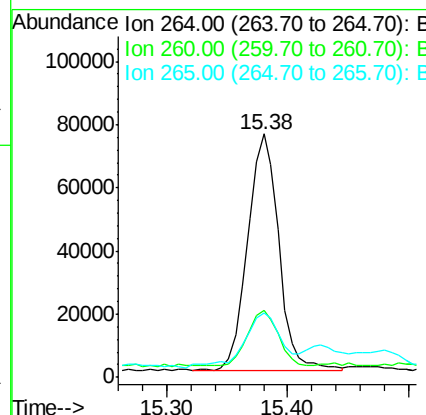
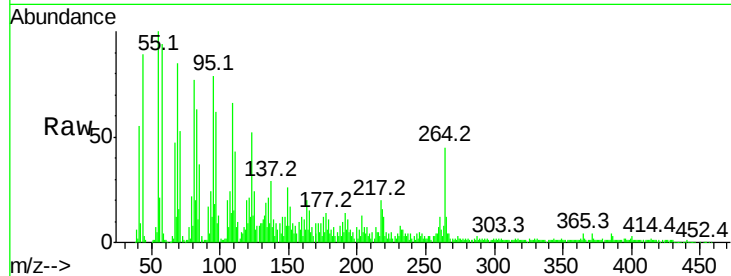
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.08 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.7	19.2	28.8
265	26.7	17.5	26.3

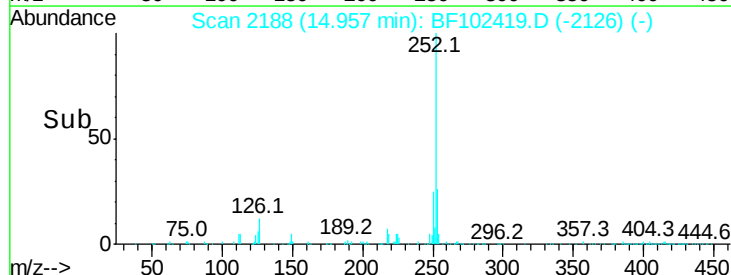
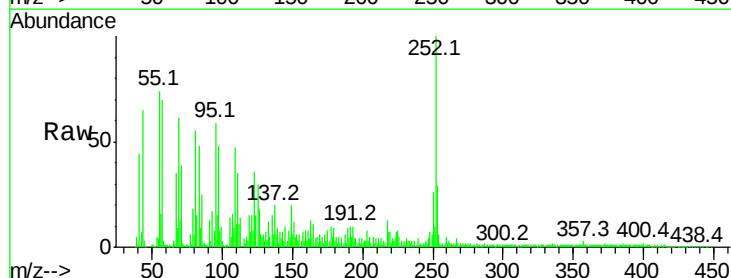
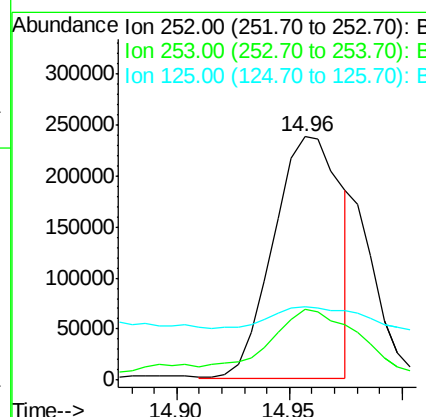
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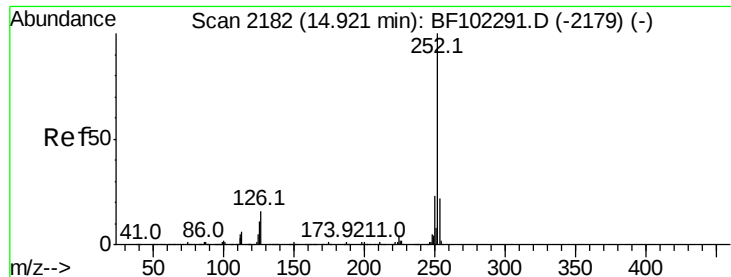
Sohil
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#87
Benzo(b)fluoranthene
Concen: 55.564 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.06 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.9	17.0	25.6
125	30.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 16.708 ng/mL

RT: 14.97 min Scan# 2191

Delta R.T. 0.05 min

Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Instrument :

BNA_F

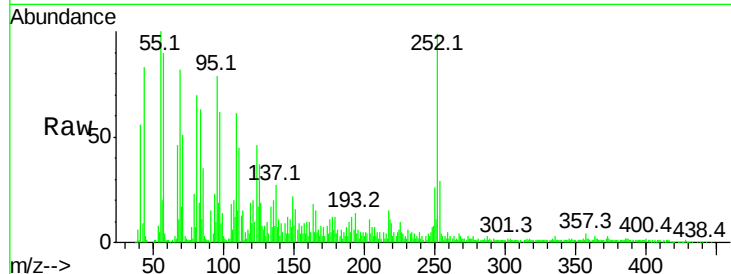
ClientSampleId :

DB-OF-N-S-(EW0-4)

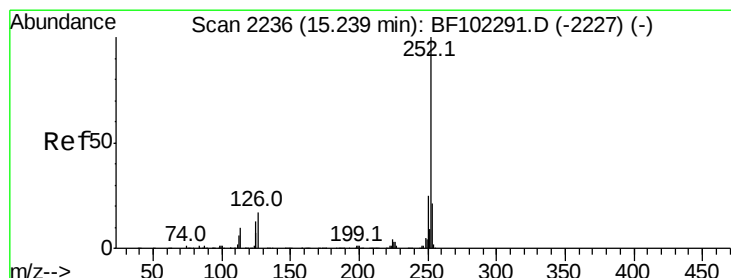
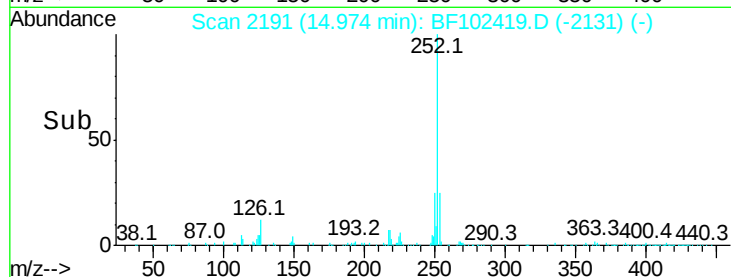
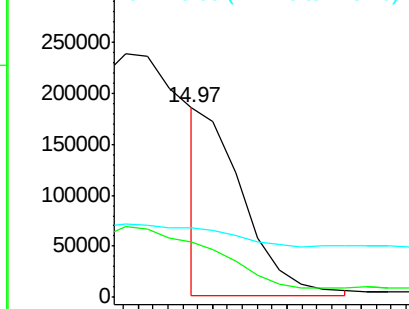
Tot Ion:	252	Resp:	139263
Ion Ratio	Lower	Upper	
252	100		
253	29.3	17.9	26.9#
125	36.9	10.2	15.2#

Manual Integrations
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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



#89

Benzo(a)pyrene

Concen: 41.676 ng/mL

RT: 15.32 min Scan# 2250

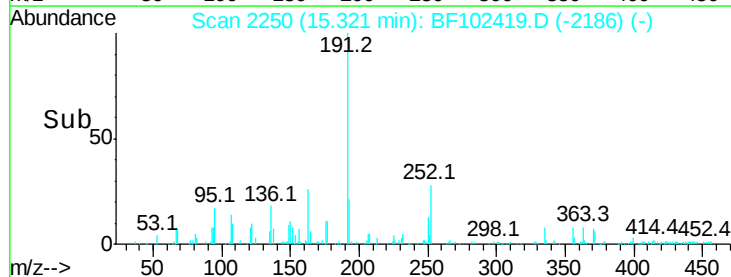
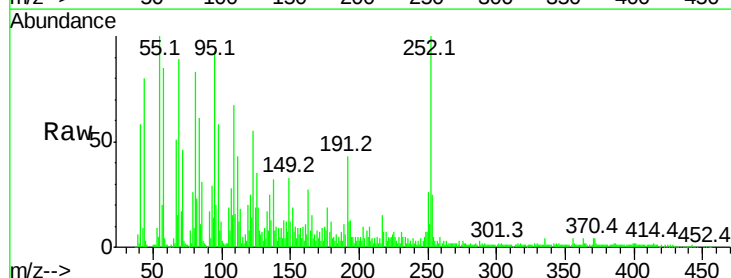
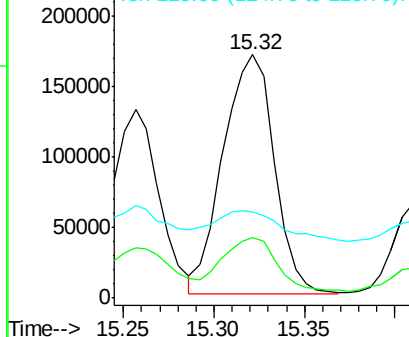
Delta R.T. 0.08 min

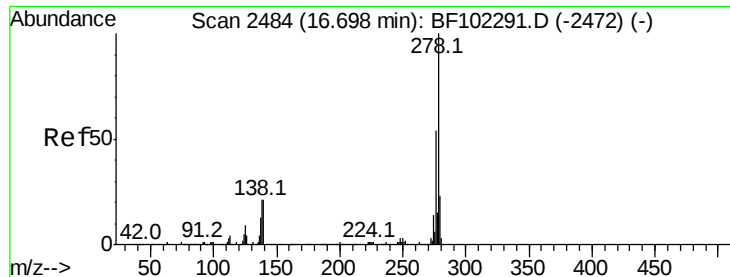
Lab File: BF102419.D

Acq: 25 Jan 2018 12:04

Tgt Ion:	252	Resp:	331599
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.1	25.7
125	35.5	9.8	14.6#

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





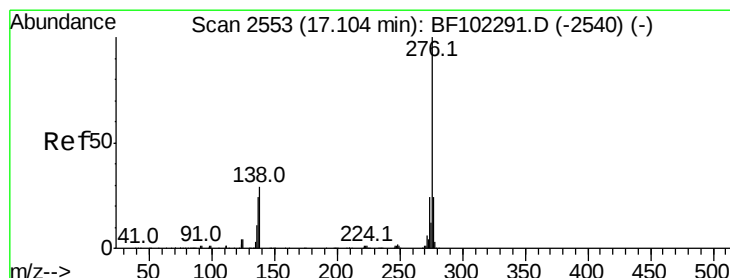
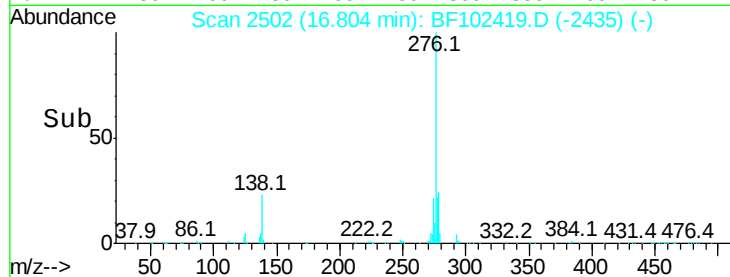
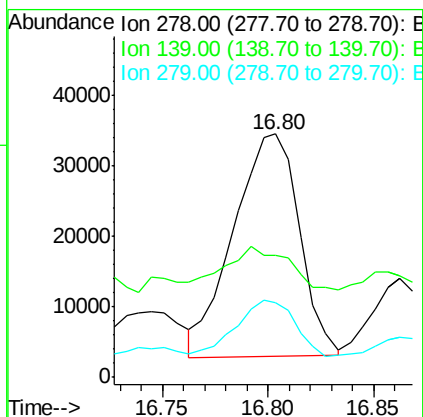
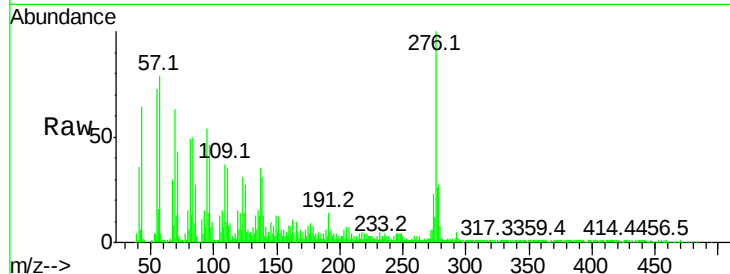
#90
Dibenzo(a,h)anthracene
Concen: 10.537 ng
RT: 16.80 min Scan# 2502
Delta R.T. 0.09 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Instrument :
BNA_F
ClientSampleId :
DB-OF-N-S-(EW0-4)

Tot Ion	Ratio	Lower	Upper
278	100		
139	50.2	15.9	23.9#
279	30.9	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/25/2018 5:42:04 PM



#91
Benzo(g,h,i)perylene
Concen: 41.792 ng
RT: 17.23 min Scan# 2574
Delta R.T. 0.11 min
Lab File: BF102419.D
Acq: 25 Jan 2018 12:04

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	17.9	26.9
138	30.9	21.8	32.8

