

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
 Data File : BF102996.D
 Acq On : 14 Feb 2018 18:19
 Operator : SJ/JU
 Sample : J1539-17
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-NW(0-4)

Manual Integrations
 APPROVED

Sohil
 2/15/2018 11:06:30 AM

Quant Time: Feb 15 09:13:11 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 00:38:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	144786	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	541649	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	189042	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	250060	20.00	ng	0.01
75) Chrysene-d12	14.07	240	129049	20.00	ng	0.04
86) Perylene-d12	15.59	264	126559	20.00	ng	0.08

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	935842	98.16	ng	0.00
7) Phenol-d6	6.50	99	1102000	96.00	ng	0.00
23) Nitrobenzene-d5	7.44	82	658860	84.38	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	141674	93.11	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	906422	79.56	ng	0.00
78) Terphenyl-d14	13.01	244	441882	81.08	ng	0.02

Target Compounds

						Qvalue
10) Phenol	6.52	94	33790	2.747	ng	91
31) Naphthalene	8.18	128	137385	5.191	ng	99
37) 2-Methylnaphthalene	8.87	142	121103	6.990	ng	99
49) Dimethylphthalate	9.62	163	125987	8.547	ng	# 94
51) Acenaphthene	9.95	154	39782	3.417	ng	92
54) Dibenzofuran	10.12	168	47065	2.868	ng	# 64
57) Fluorene	10.46	166	53747	4.502	ng	# 95
70) Phenanthrene	11.43	178	386051	27.720	ng	98
71) Anthracene	11.49	178	52242m	3.688	ng	
74) Fluoranthene	12.65	202	340140	24.275	ng	96
76) Benzydine	12.73	184	57097m	9.627	ng	
77) Pvrene	12.87	202	316702	31.296	ng	97
80) Benzo(a)anthracene	14.07	228	103057	12.698	ng	# 83
82) Chrysene	14.10	228	120740	14.758	ng	# 89
87) Benzo(b)fluoranthene	15.14	252	131412m	16.016	ng	
88) Benzo(k)fluoranthene	15.16	252	44335m	5.655	ng	
89) Benzo(a)pyrene	15.52	252	90894m	12.307	ng	
90) Dibenzo(a,h)anthracene	17.09	278	20196m	3.369	ng	
91) Benzo(a,h,i)perylene	17.54	276	76933m	13.111	ng	

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

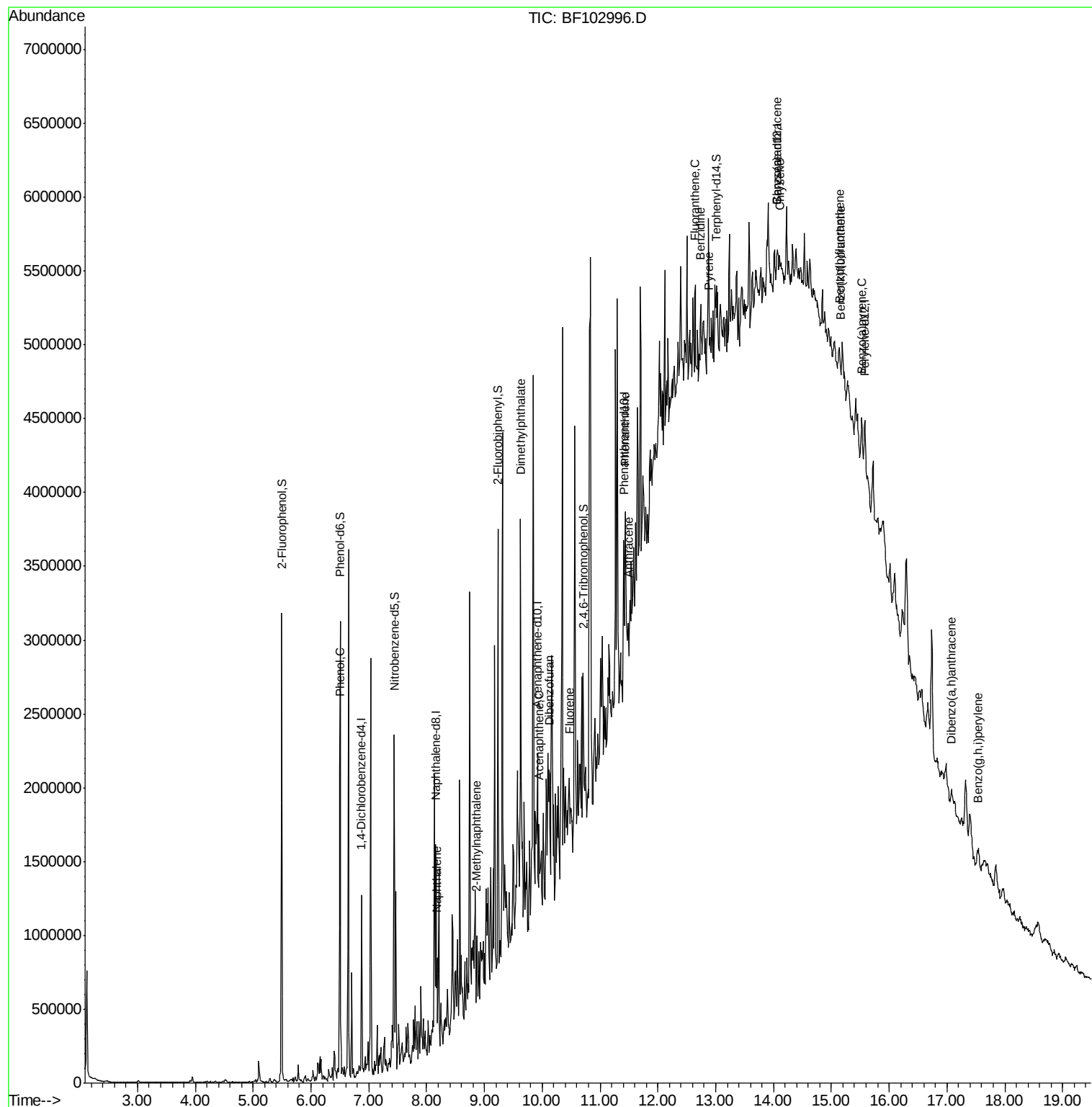
Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
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#1

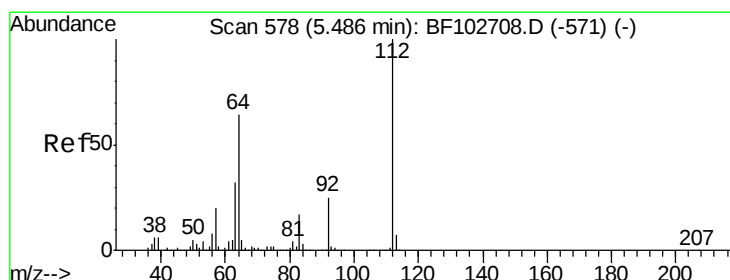
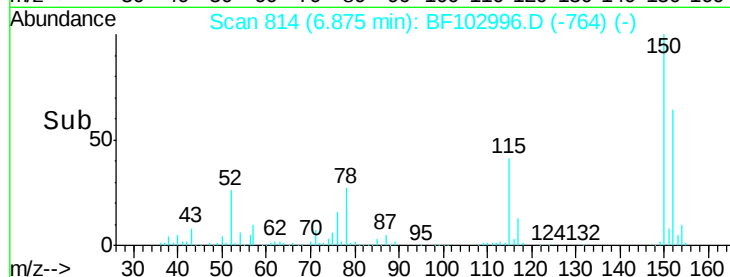
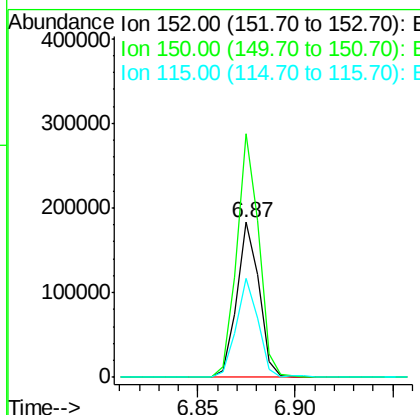
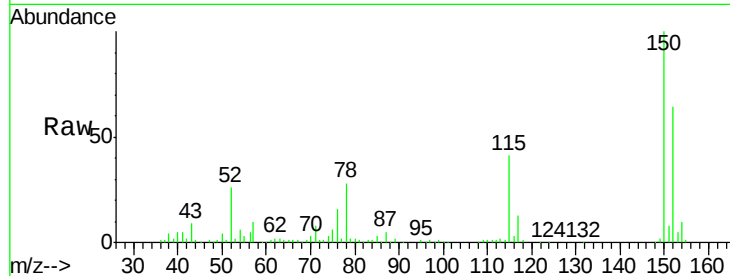
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	63.8	50.1	75.1

Manual Integrations
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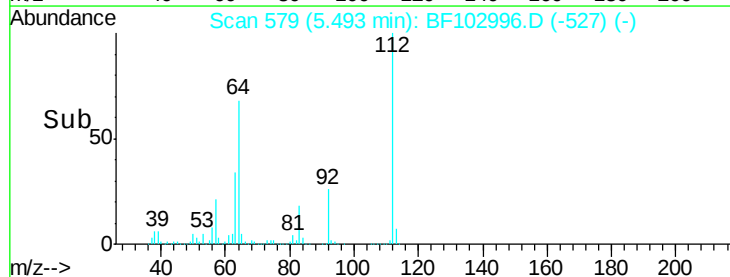
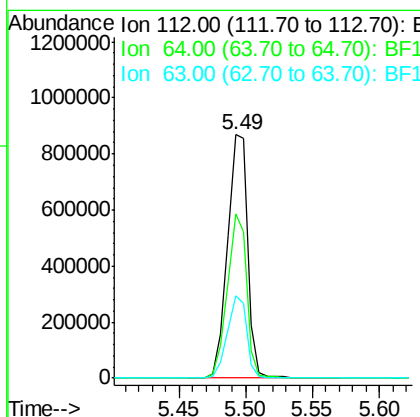
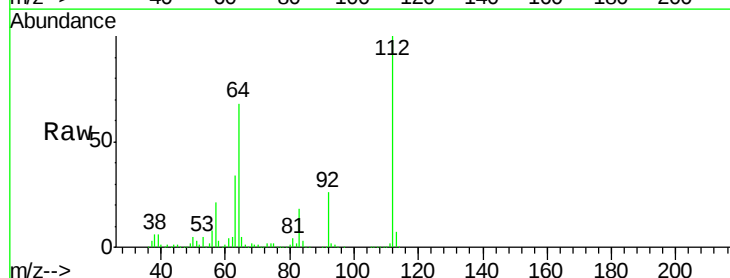
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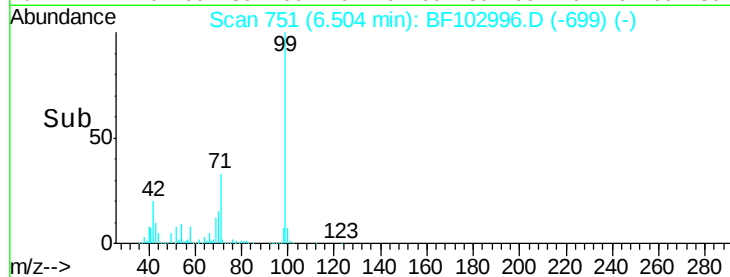
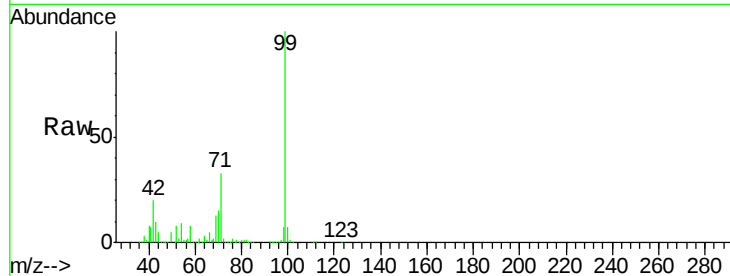


#5

2-Fluorophenol
Concen: 98.161 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.5	47.9	71.9
63	33.7	23.7	35.5





#7

Phenol-d6

Concen: 95.999 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tot Ion:	99	Resp:	1102000
Ion	Ratio	Lower	Upper
99	100		
42	20.0	14.5	21.7
71	33.0	25.4	38.0

Instrument :

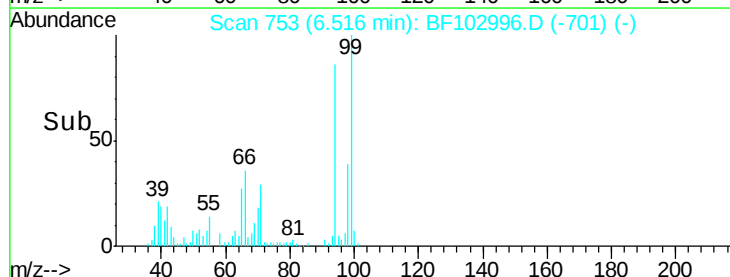
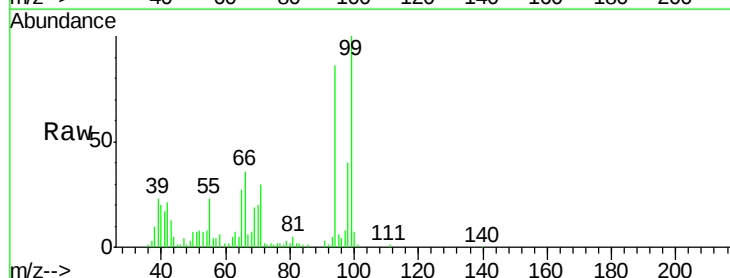
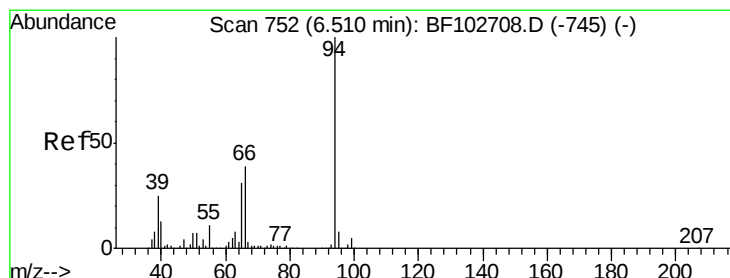
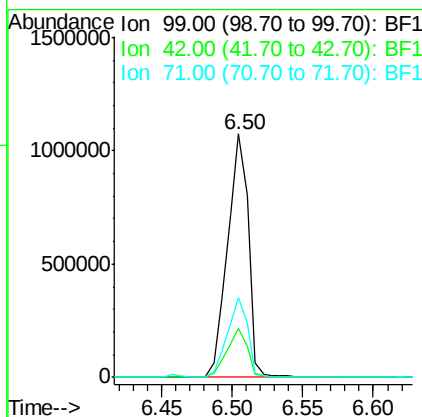
BNA_F

ClientSampleId :

CB-1-NW(0-4)

Manual Integrations
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#10

Phenol

Concen: 2.747 ng

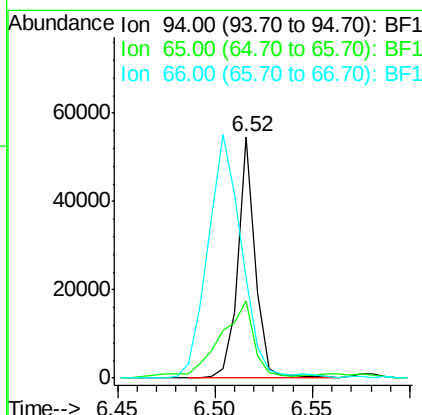
RT: 6.52 min Scan# 753

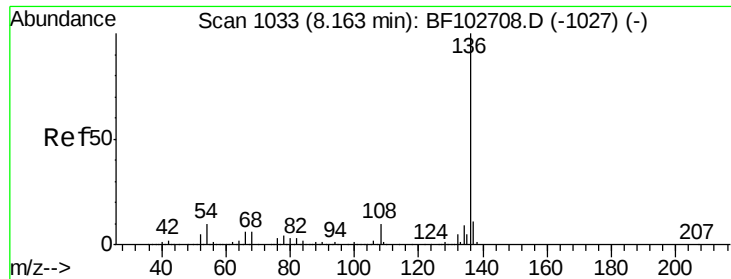
Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion:	94	Resp:	33790
Ion	Ratio	Lower	Upper
94	100		
65	32.0	7.9	47.9
66	41.7	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

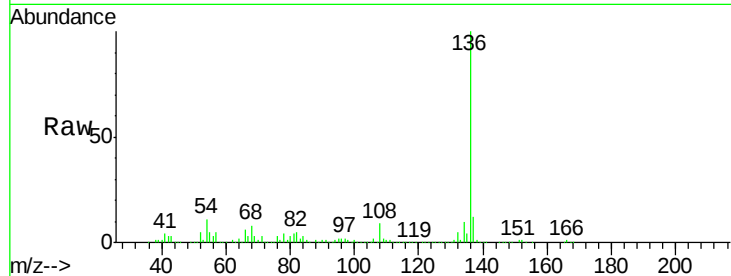
ClientSampleId :

CB-1-NW(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.7	8.9	13.3	
54	11.0	6.6	9.8	
68	8.1	5.0	7.4	

Manual Integrations
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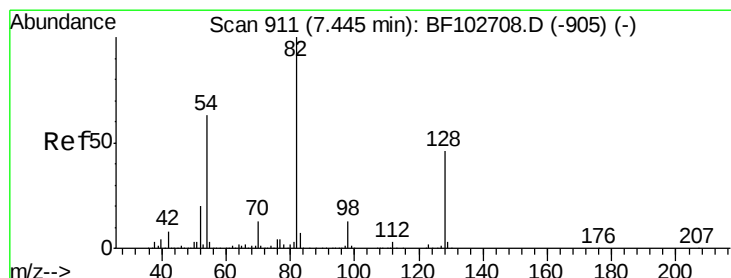
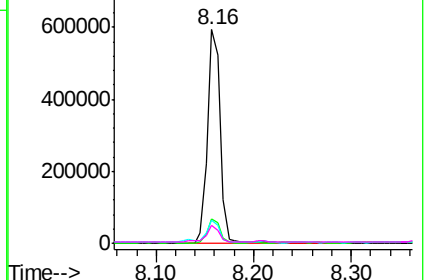
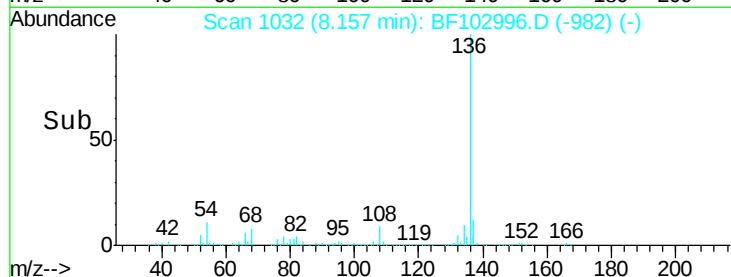


Abundance Ion 136.00 (135.70 to 136.70): E

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: 84.382 ng

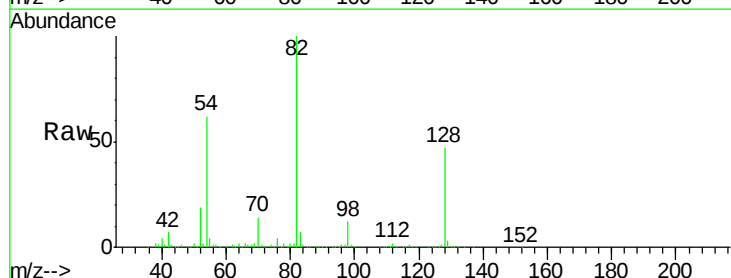
RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

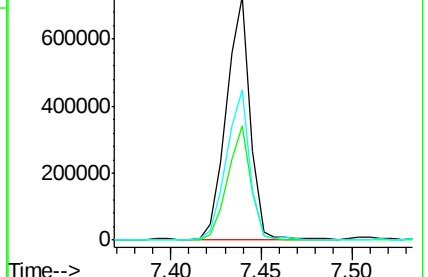
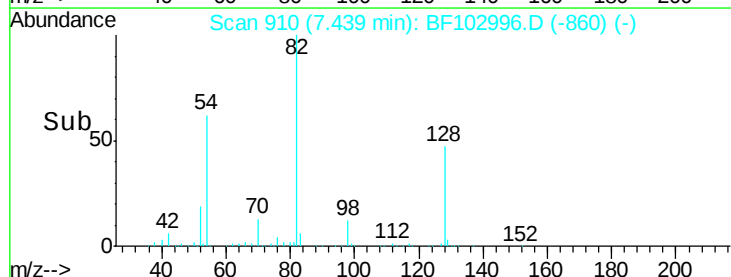
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.7	36.1	54.1	
54	61.6	41.4	62.2	

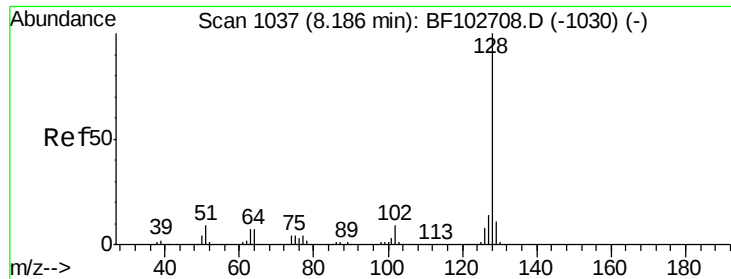


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





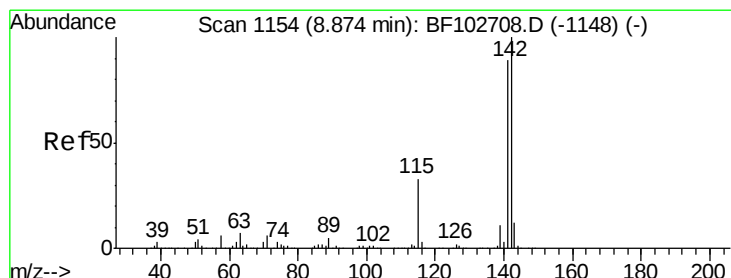
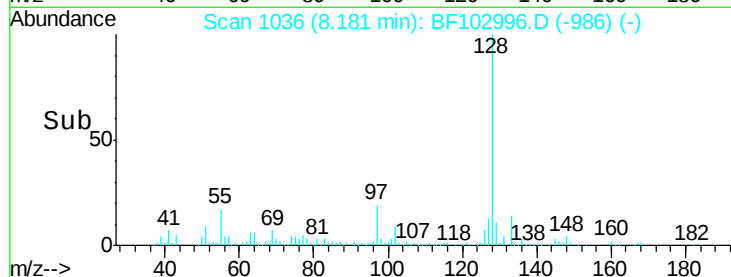
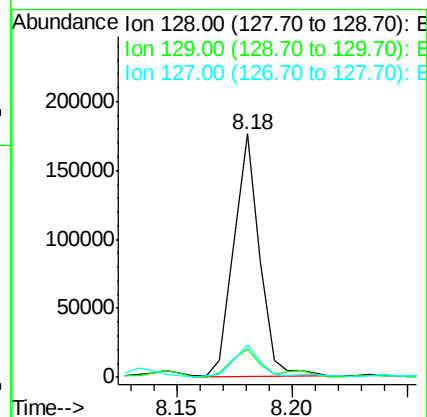
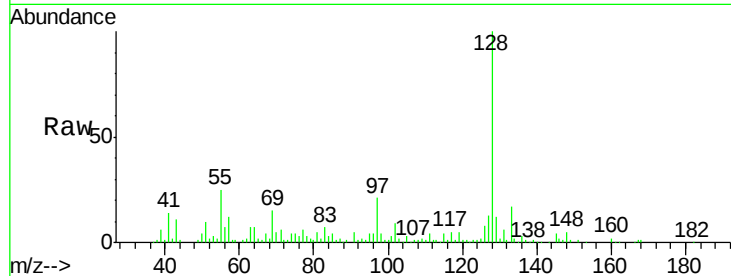
#31
Naphthalene
Concen: 5.191 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	13.3	10.9	16.3

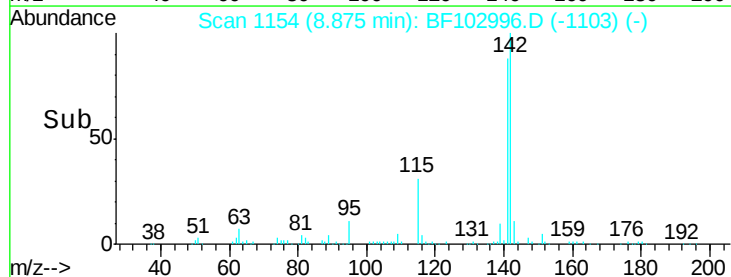
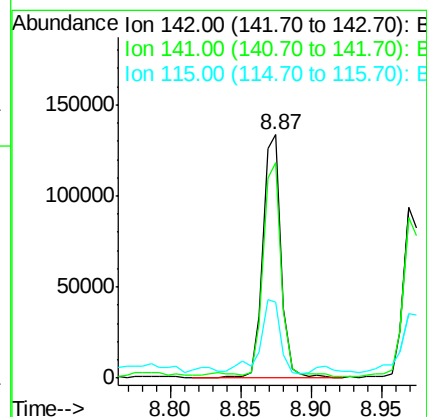
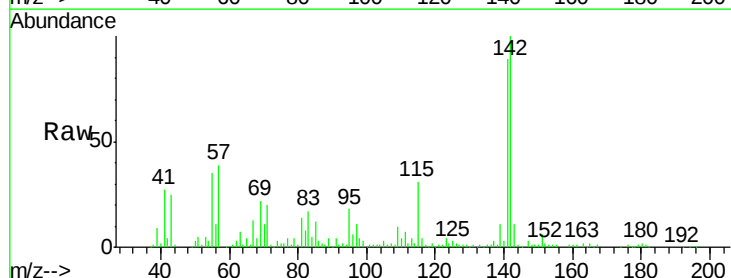
Manual Integrations
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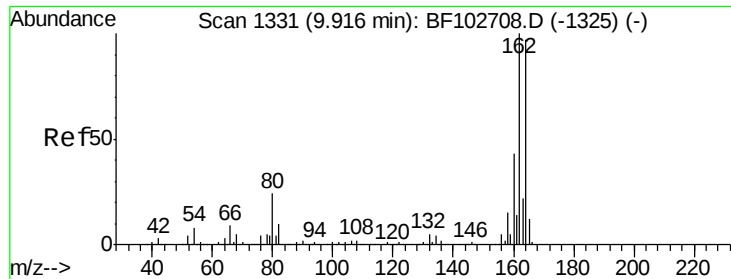
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#37
2-Methylnaphthalene
Concen: 6.990 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.8	106.2
115	31.3	26.1	39.1





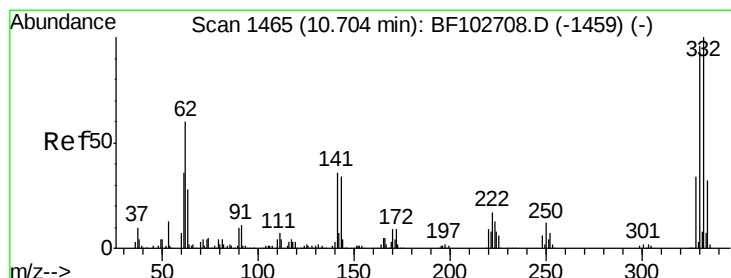
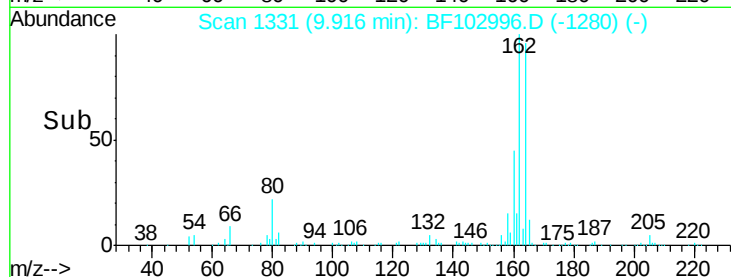
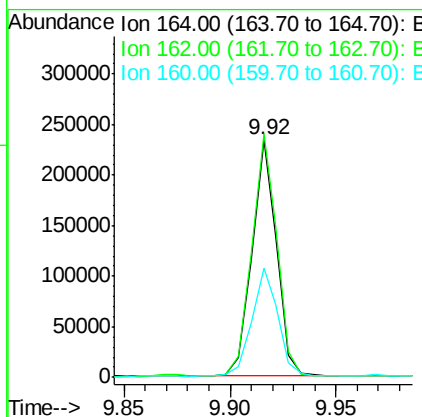
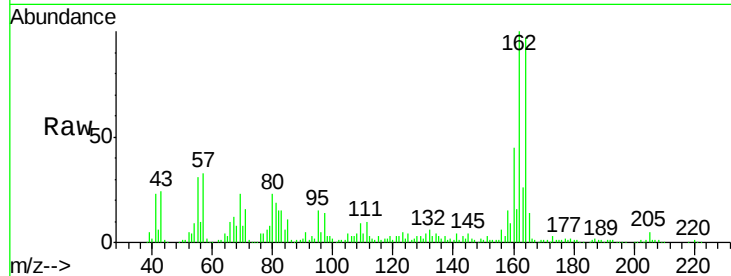
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.00 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	189042		
162	102.6	86.1	129.1	
160	46.3	38.3	57.5	

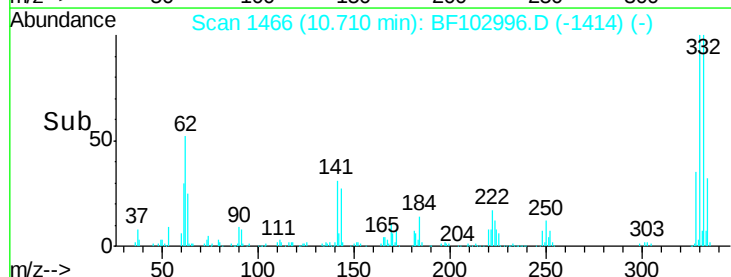
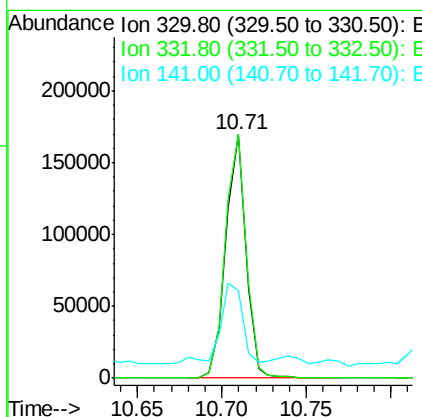
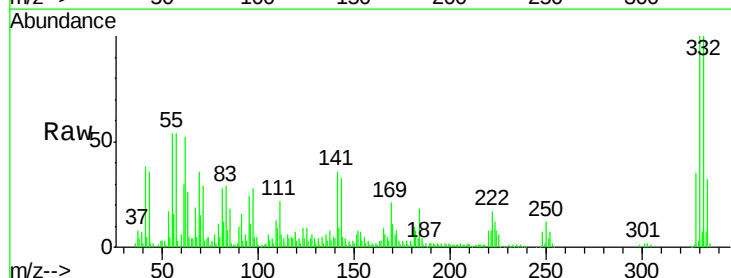
Manual Integrations
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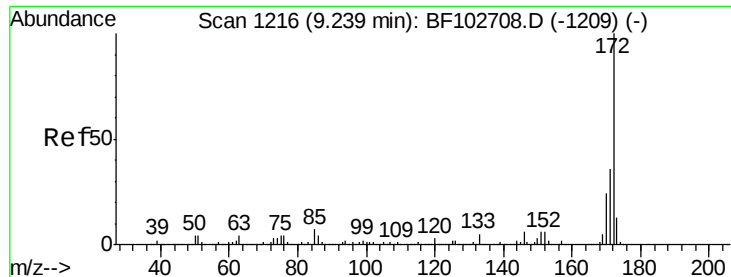
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#41
2,4,6-Tribromophenol
Concen: 93.111 ng
RT: 10.71 min Scan# 1466
Delta R.T. 0.01 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	141674		
332	102.9	77.0	115.6	
141	37.3	29.9	44.9	





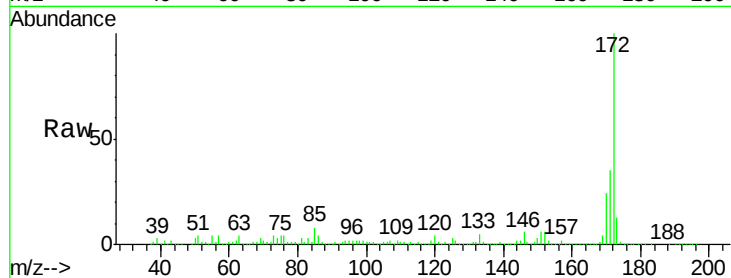
#44
2-Fluorobiphenyl
Concen: 79.563 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.3	29.7	44.5	
170	23.9	19.6	29.4	

Manual Integrations
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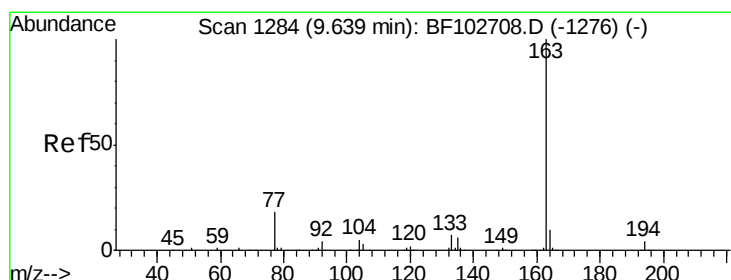
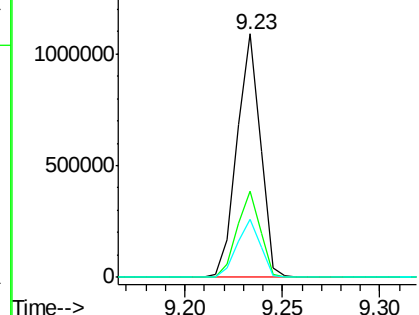
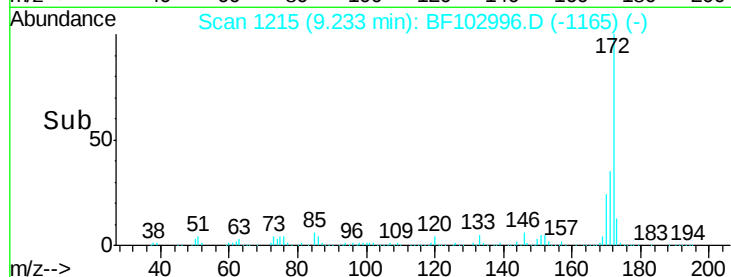


Abundance

Ion 172.00 (171.70 to 172.70): E

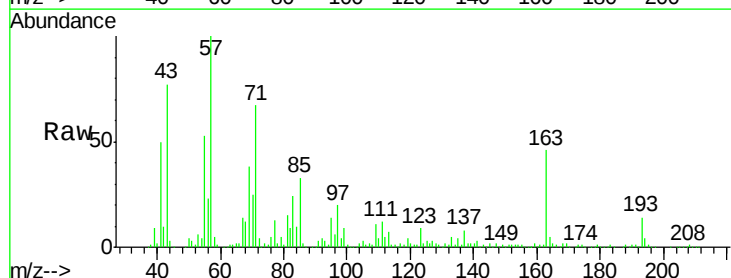
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Dimethylphthalate
Concen: 8.547 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	9.3	2.7	4.1#	
164	11.2	8.2	12.2	

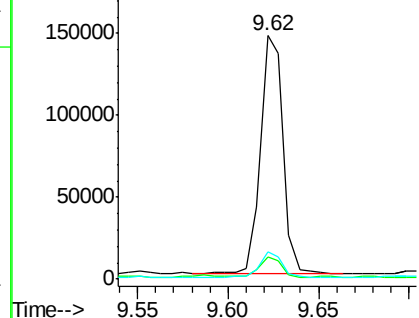
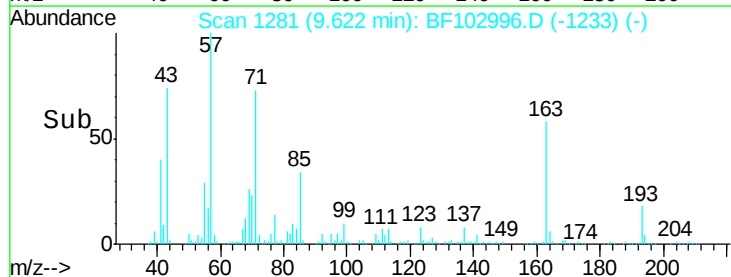


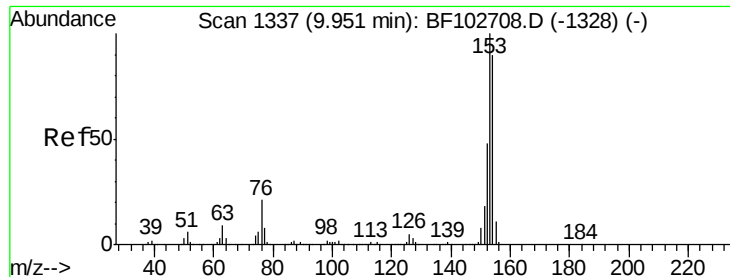
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.417 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

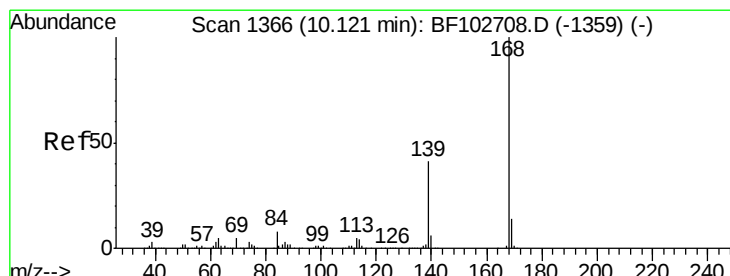
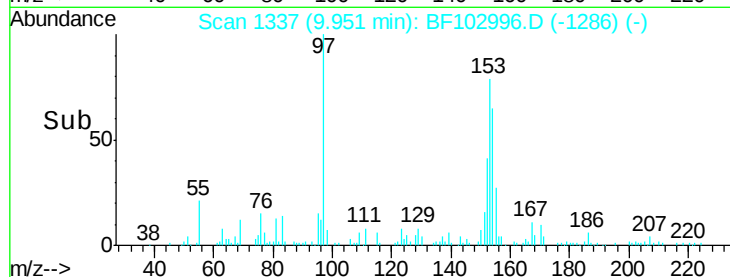
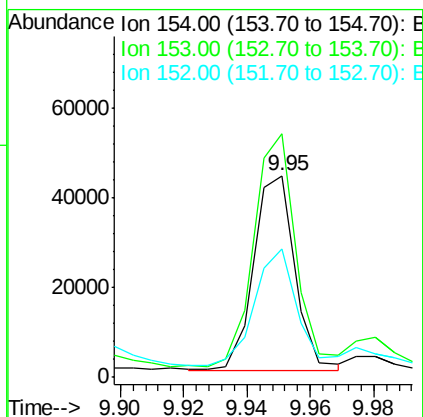
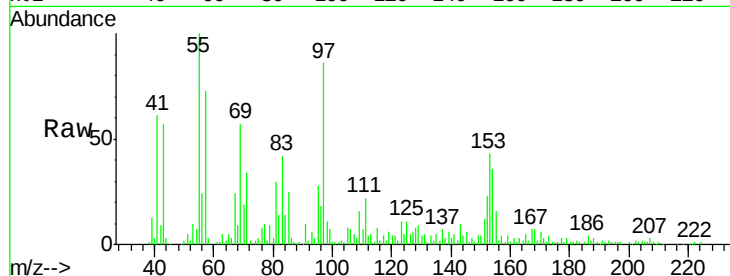
ClientSampleId :

CB-1-NW(0-4)

Tot Ion:	154	Resp:	39782
Ion Ratio	Lower	Upper	
154	100		
153	120.7	91.2	136.8
152	63.9	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 2.868 ng

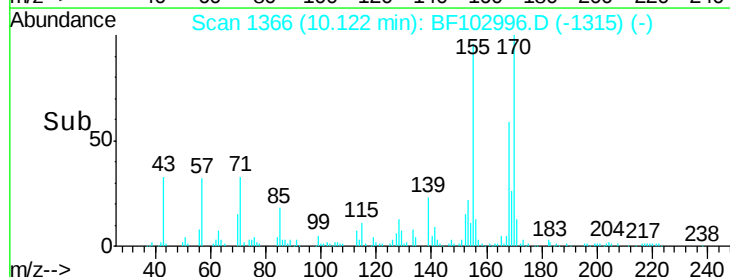
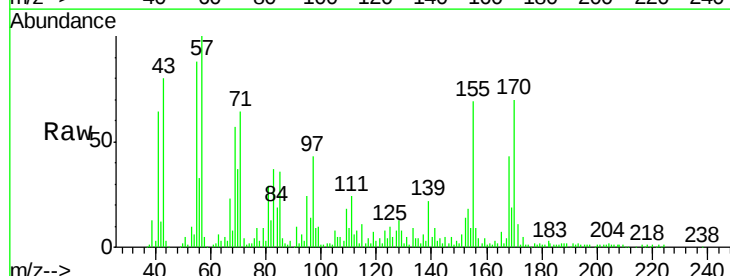
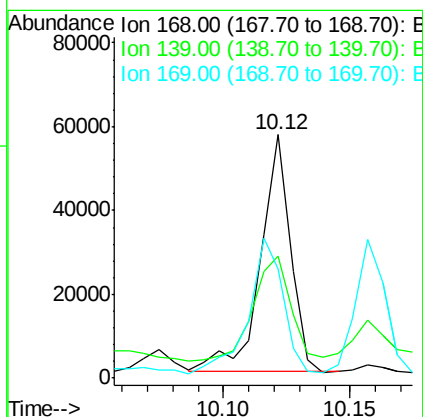
RT: 10.12 min Scan# 1366

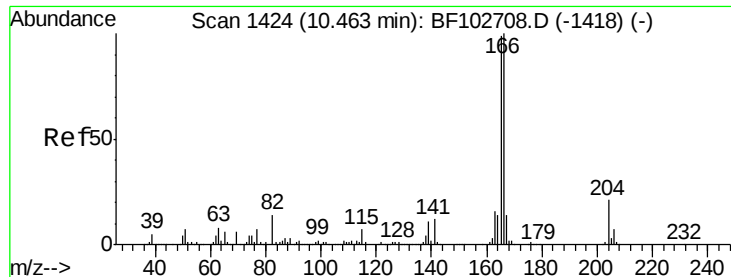
Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion:	168	Resp:	47065
Ion Ratio	Lower	Upper	
168	100		
139	50.1	30.1	45.1#
169	44.9	10.9	16.3#





#57

Fluorene

Concen: 4.502 ng

RT: 10.46 min Scan# 1424

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

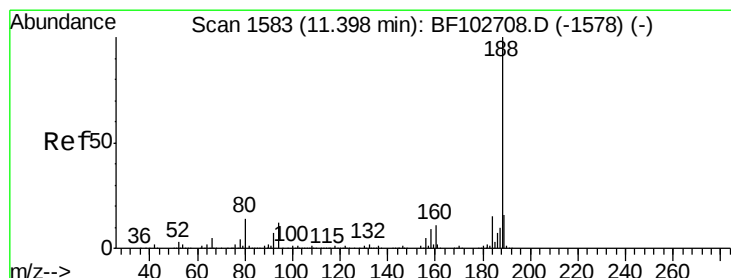
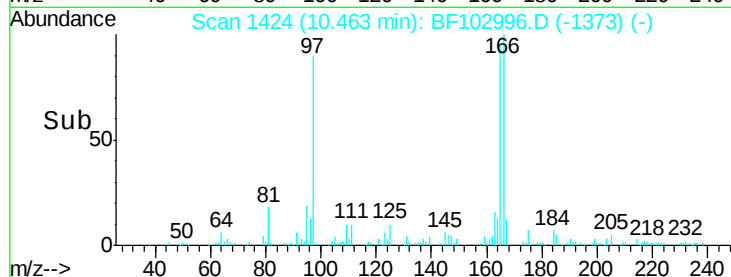
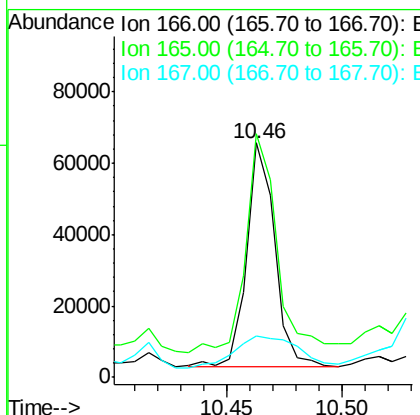
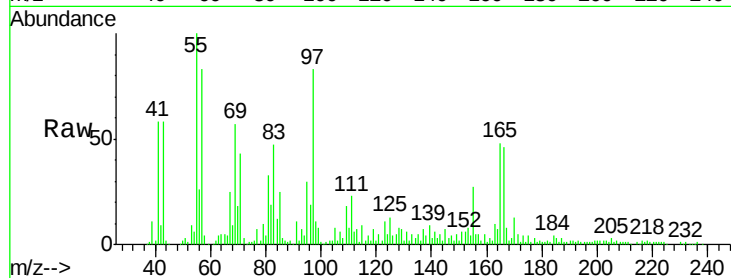
ClientSampleId :

CB-1-NW(0-4)

Tot Ion:	166	Resp:	53747
Ion Ratio	Lower	Upper	
166	100		
165	104.0	79.8	119.8
167	17.7	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

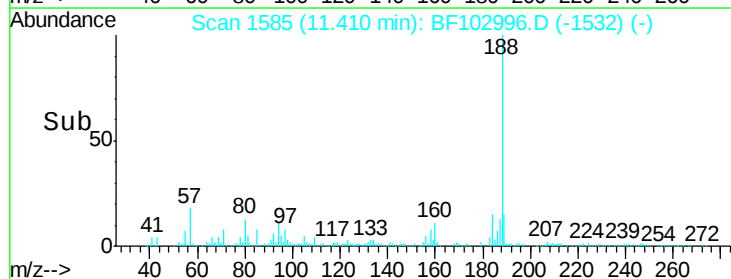
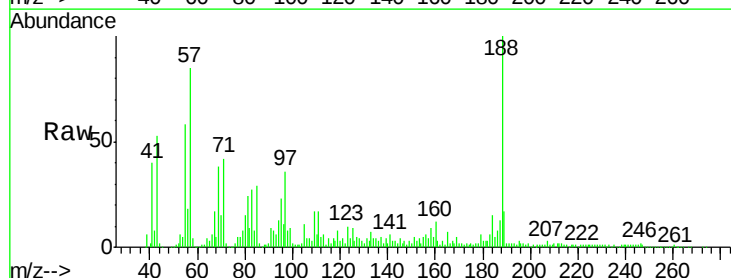
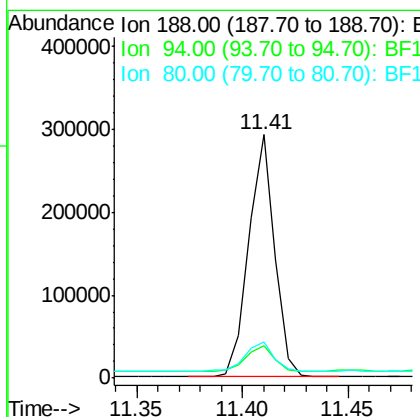
RT: 11.41 min Scan# 1585

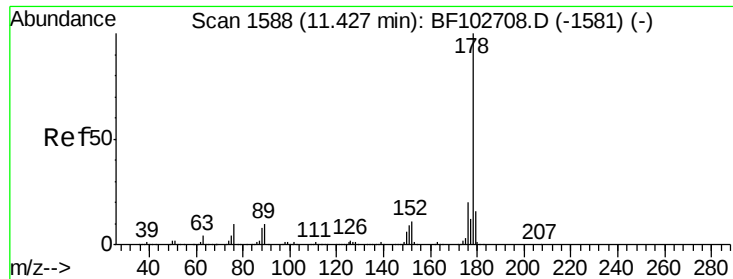
Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion:	188	Resp:	250060
Ion Ratio	Lower	Upper	
188	100		
94	13.2	8.5	12.7
80	14.9	9.2	13.8





#70

Phenanthrene

Concen: 27.720 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

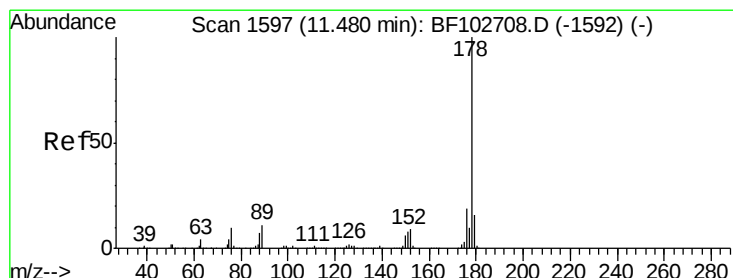
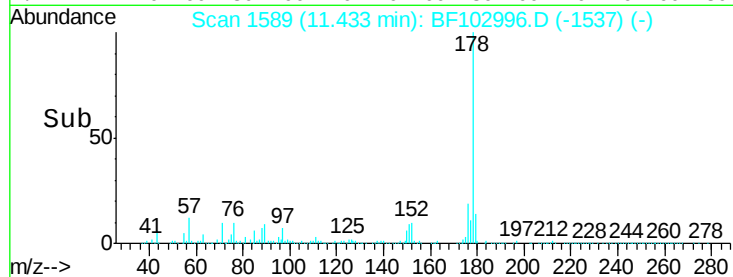
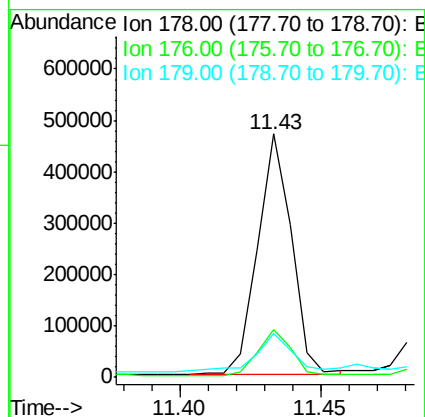
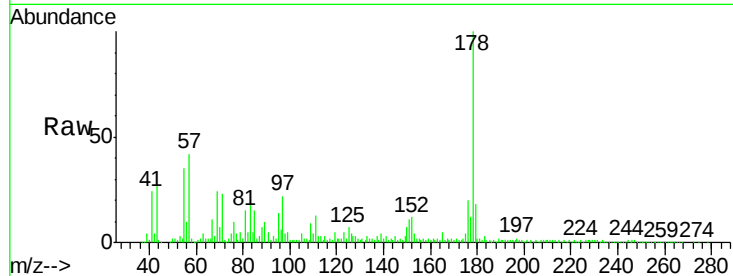
ClientSampleId :

CB-1-NW(0-4)

Tot Ion:	178	Resp:	386051
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.8	23.8
179	17.8	13.0	19.6

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#71

Anthracene

Concen: 3.688 ng m

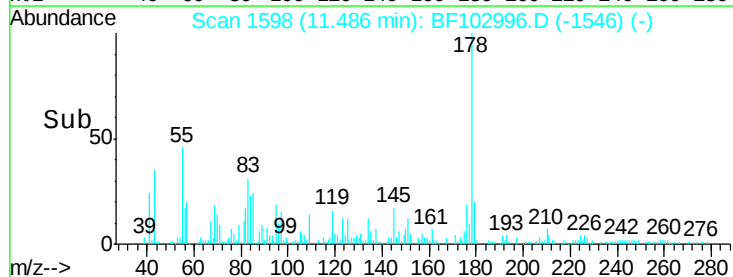
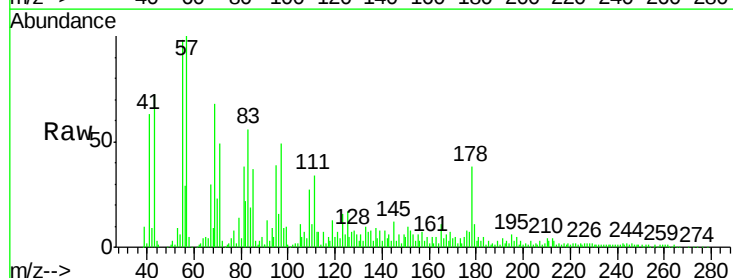
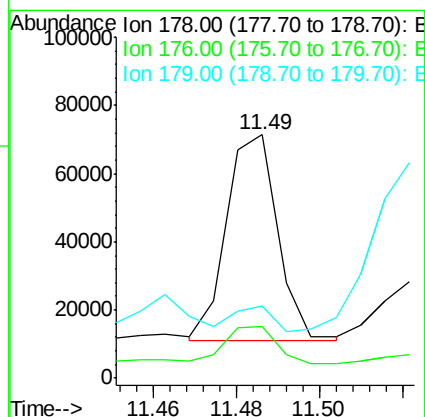
RT: 11.49 min Scan# 1598

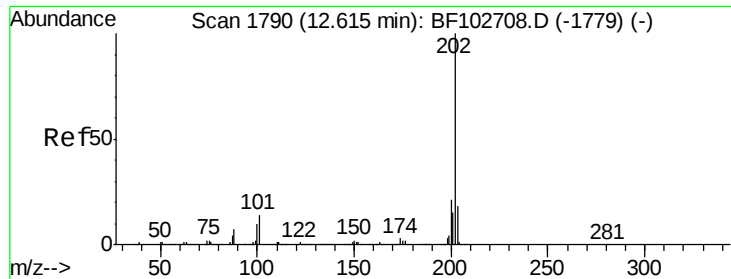
Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion:	178	Resp:	52242
Ion Ratio	Lower	Upper	
178	100		
176	21.5	15.4	23.2
179	29.4	12.6	19.0#





#74

Fluoranthene

Concen: 24.275 ng

RT: 12.65 min Scan# 1795

Delta R.T. 0.03 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

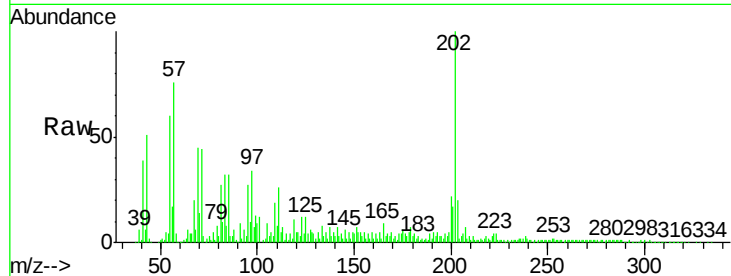
ClientSampleId :

CB-1-NW(0-4)

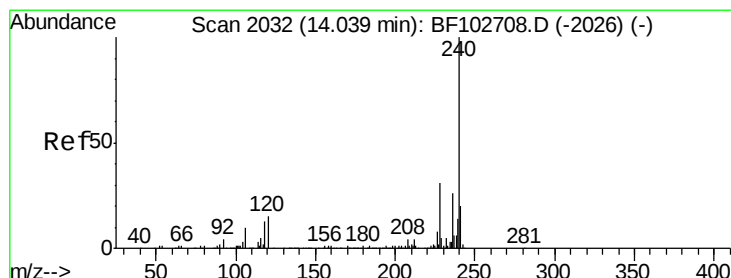
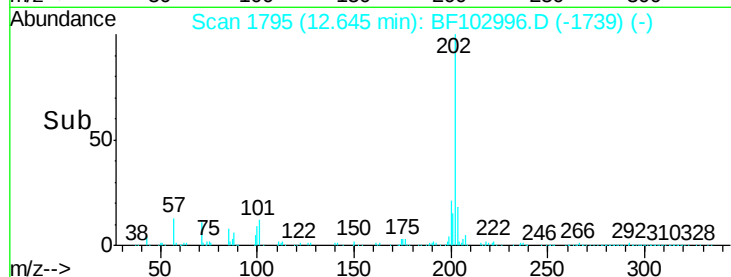
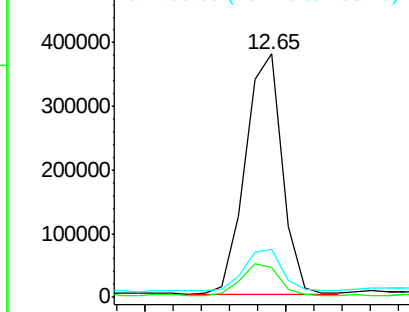
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.5	0.0	34.1
203	19.8	0.0	38.1

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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

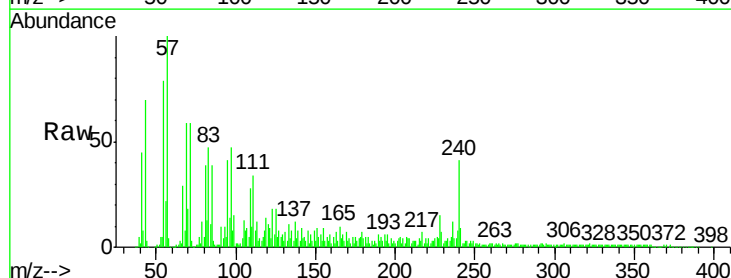
RT: 14.07 min Scan# 2038

Delta R.T. 0.04 min

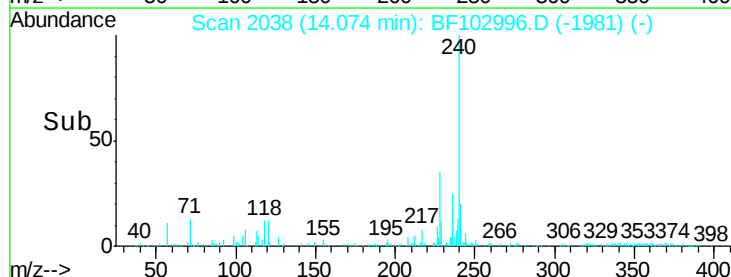
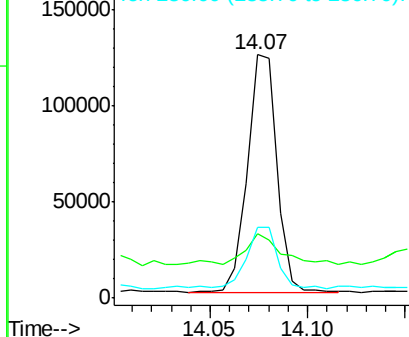
Lab File: BF102996.D

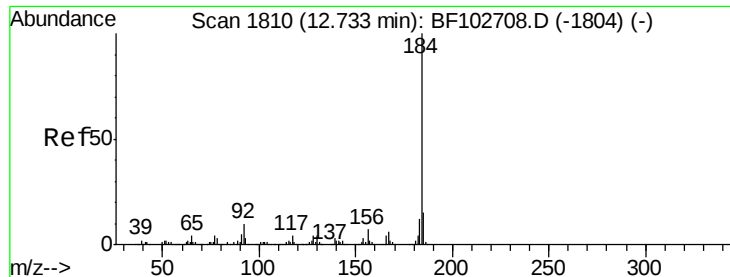
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	26.6	9.5	14.3#
236	29.2	20.7	31.1



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





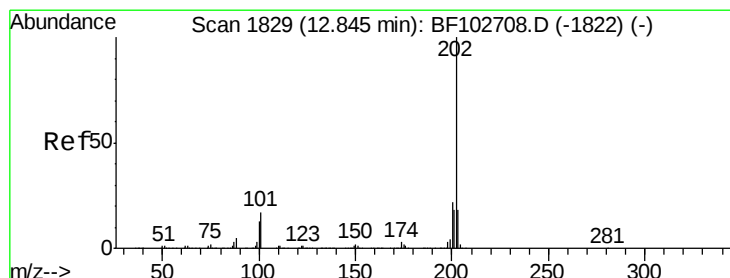
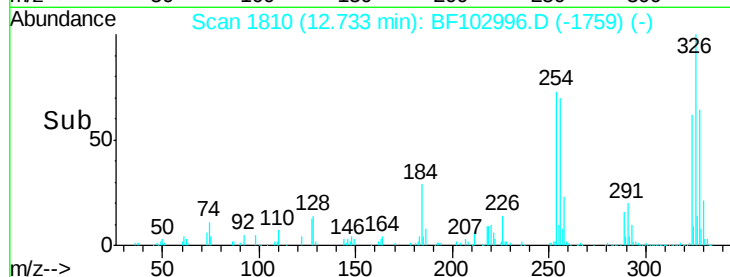
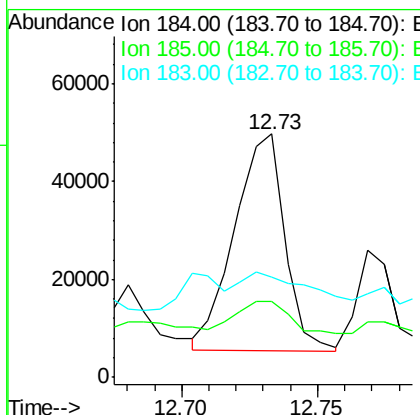
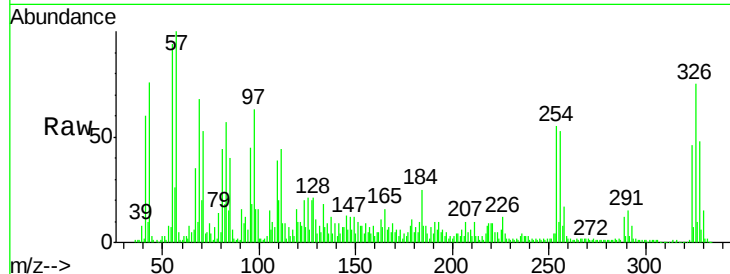
#76
Benzidine
Concen: 9.627 ng m
RT: 12.73 min Scan# 1810
Delta R.T. 0.00 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
184	100		
185	31.0	12.6	18.8#
183	41.2	9.3	13.9#

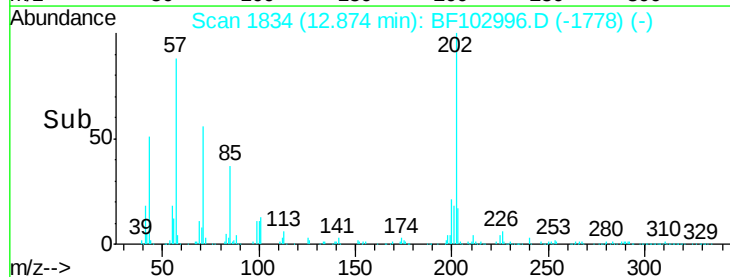
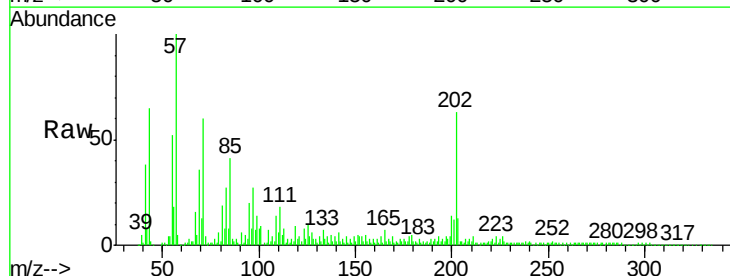
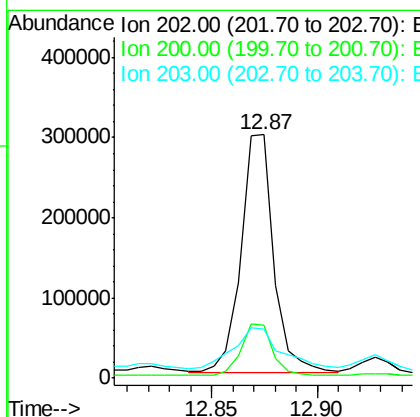
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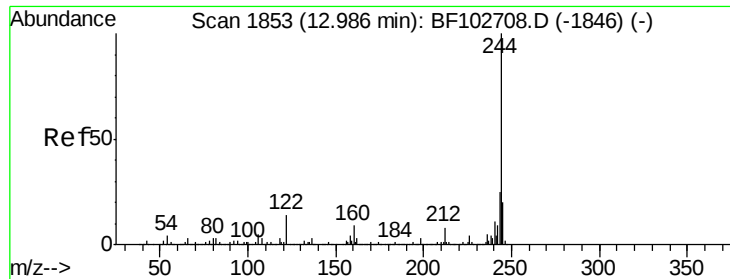
Sohil
2/15/2018 11:06:30 AM



#77
Pyrene
Concen: 31.296 ng
RT: 12.87 min Scan# 1834
Delta R.T. 0.03 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	20.3	14.3	21.5





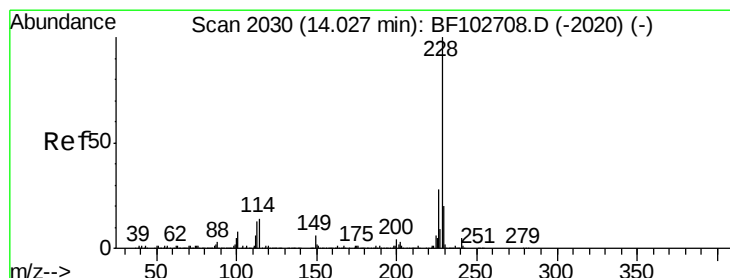
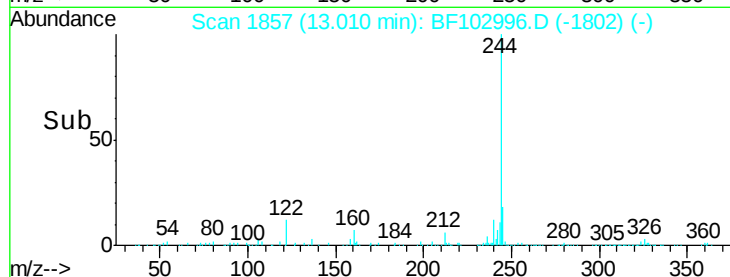
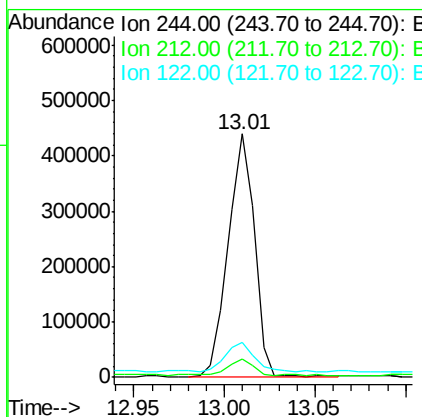
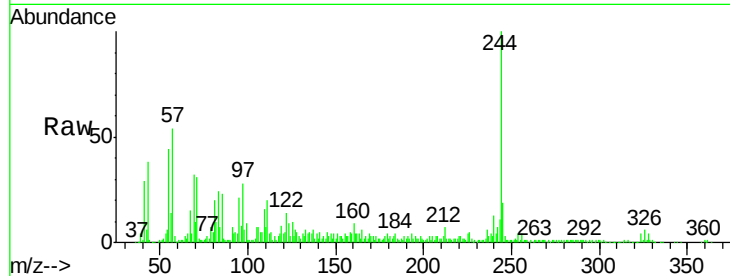
#78
 Terphenyl-d14
 Concen: 81.076 ng
 RT: 13.01 min Scan# 1857
 Delta R.T. 0.02 min
 Lab File: BF102996.D
 Acq: 14 Feb 2018 18:19

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.0
122	14.2	11.0	16.4

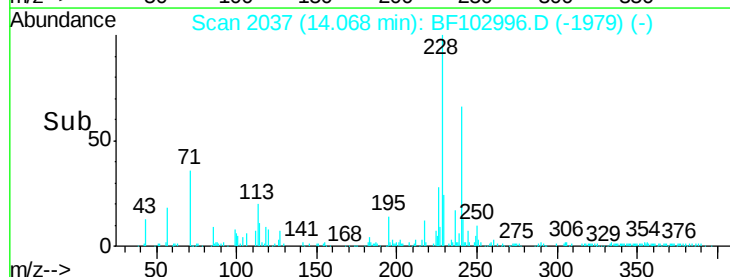
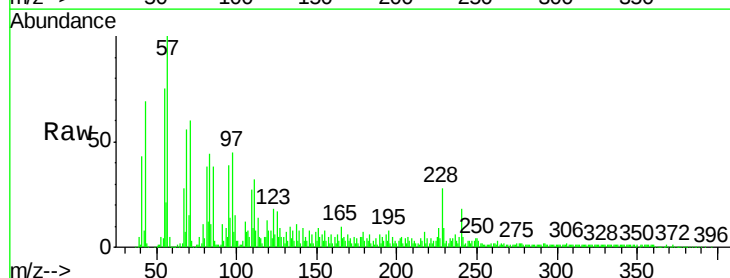
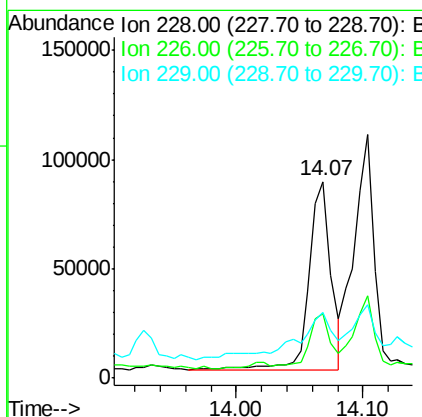
Manual Integrations
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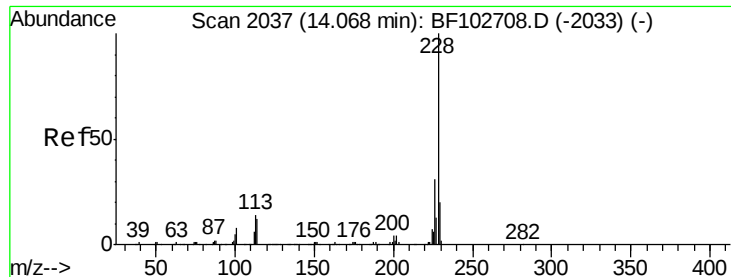
Sohil
 2/15/2018 11:06:30 AM



#80
 Benzo(a)anthracene
 Concen: 12.698 ng
 RT: 14.07 min Scan# 2037
 Delta R.T. 0.04 min
 Lab File: BF102996.D
 Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.9	22.6	33.8
229	33.1	15.8	23.6





#82

Chrysene

Concen: 14.758 ng

RT: 14.10 min Scan# 2043

Delta R.T. 0.04 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

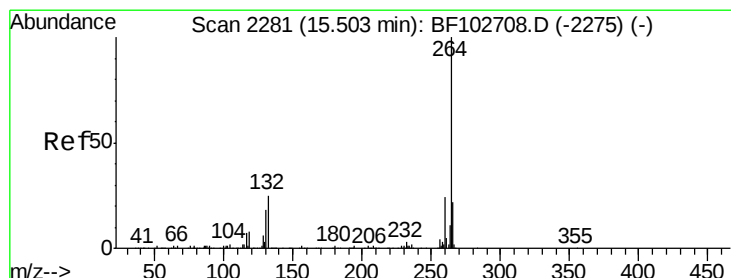
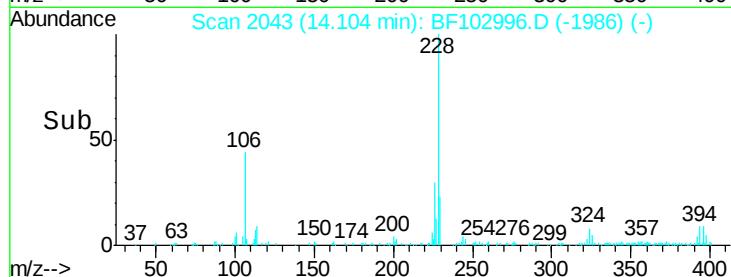
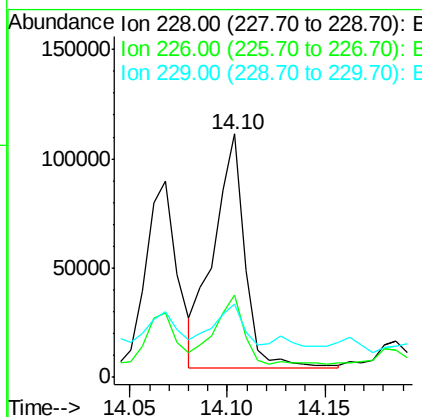
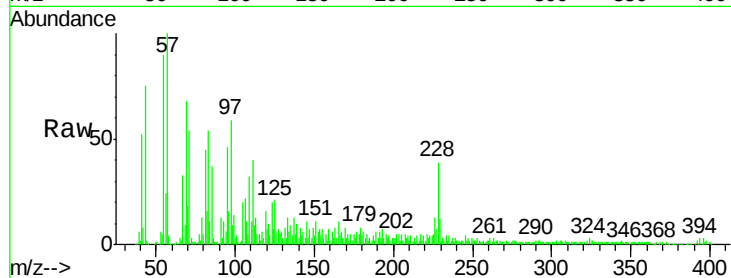
ClientSampleId :

CB-1-NW(0-4)

Tot Ion:	228	Resp:	120740
Ion Ratio	Lower	Upper	
228	100		
226	33.9	25.0	37.6
229	30.2	16.2	24.4

Manual Integrations
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#86

Perylene-d12

Concen: 20.000 ng

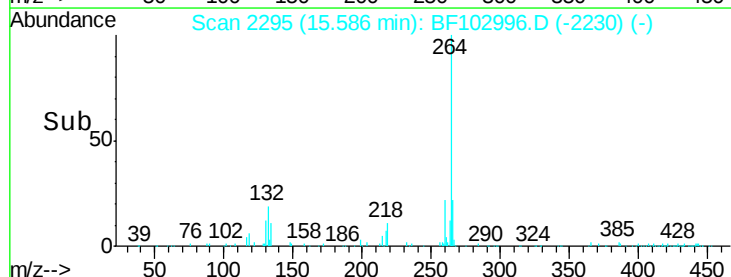
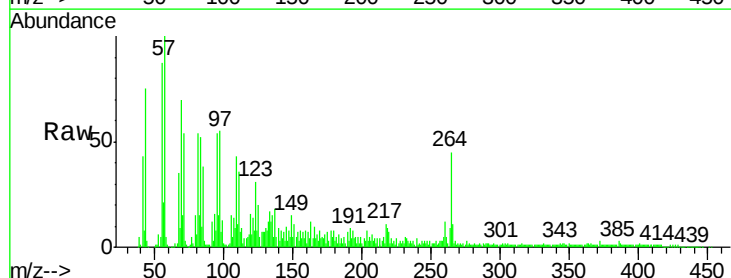
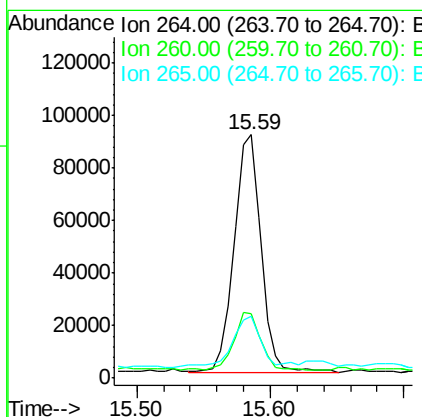
RT: 15.59 min Scan# 2295

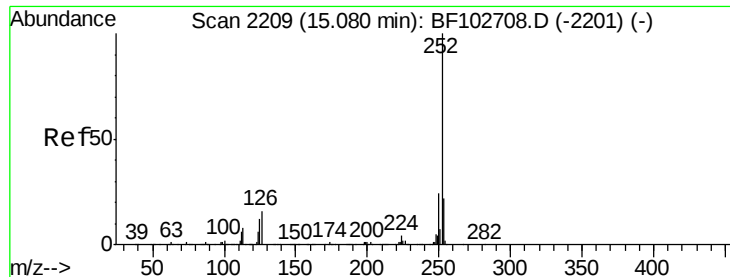
Delta R.T. 0.08 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion:	264	Resp:	126559
Ion Ratio	Lower	Upper	
264	100		
260	26.3	19.2	28.8
265	25.4	17.5	26.3





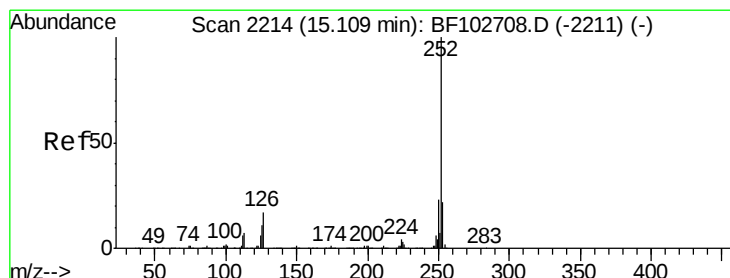
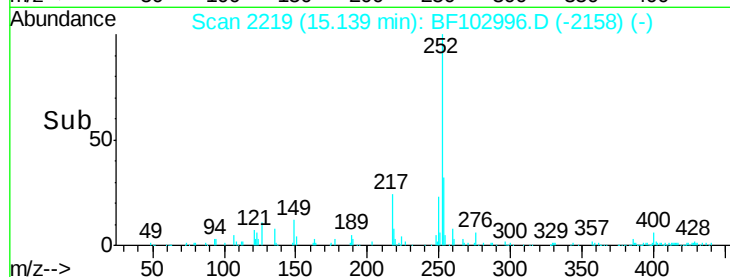
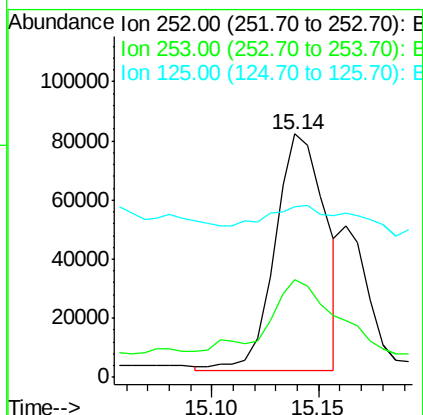
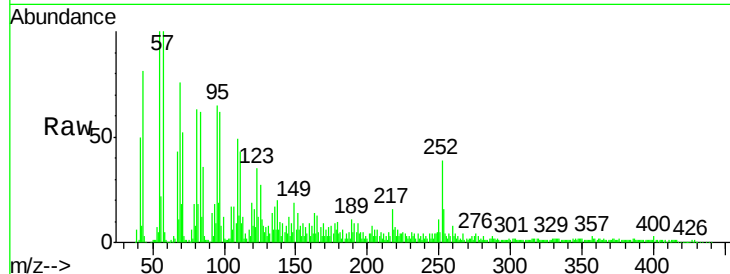
#87
Benzo(b)fluoranthene
Concen: 16.016 ng m
RT: 15.14 min Scan# 2219
Delta R.T. 0.06 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	40.0	17.0	25.6#
125	70.3	9.0	13.6#

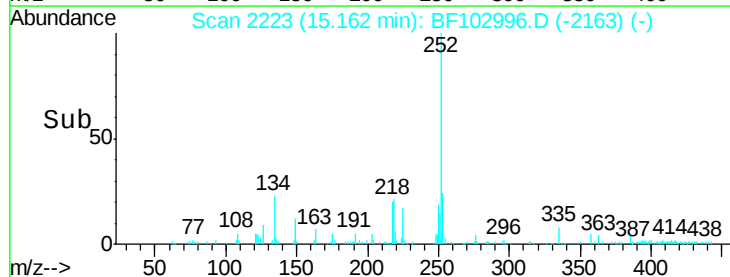
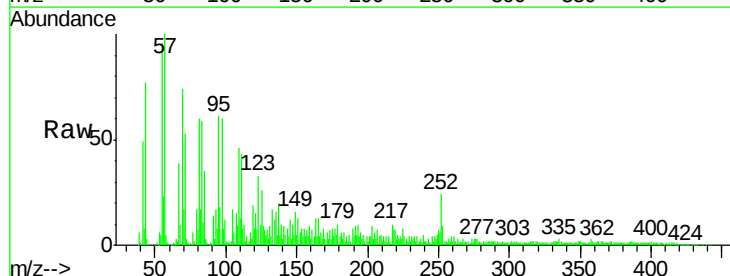
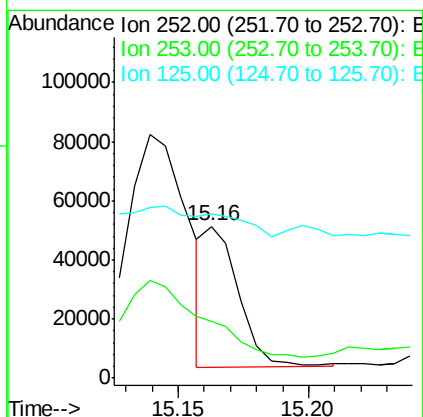
Manual Integrations
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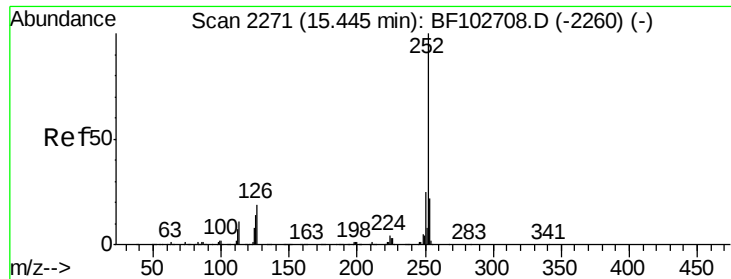
Sohil
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#88
Benzo(k)fluoranthene
Concen: 5.655 ng m
RT: 15.16 min Scan# 2223
Delta R.T. 0.05 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	37.7	17.9	26.9#
125	107.8	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 12.307 ng m

RT: 15.52 min Scan# 2283

Delta R.T. 0.07 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA_F

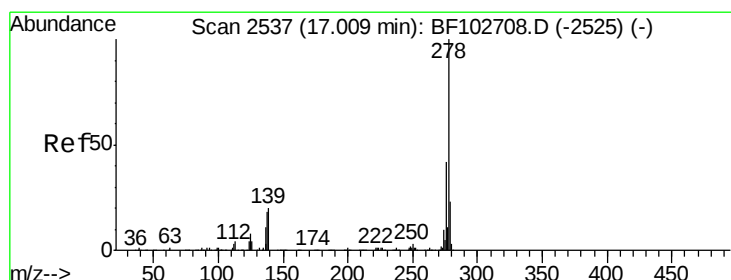
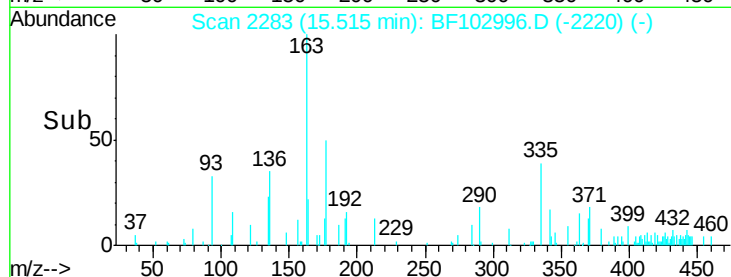
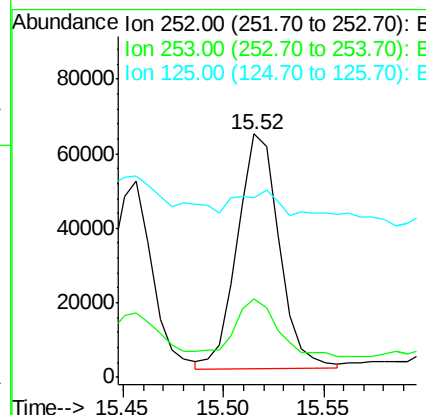
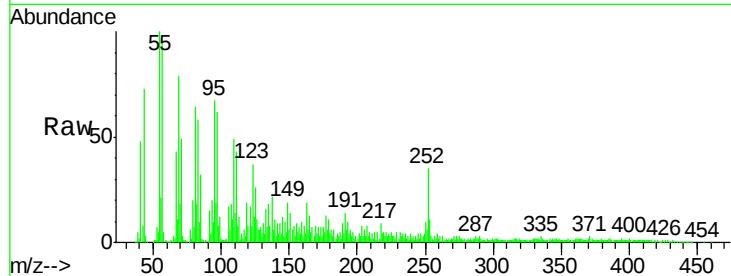
ClientSampleId :

CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	32.0	17.1	25.7#
125	73.8	9.8	14.6#

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#90

Dibenzo(a,h)anthracene

Concen: 3.369 ng m

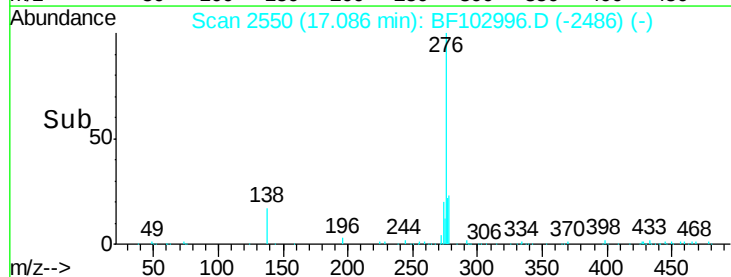
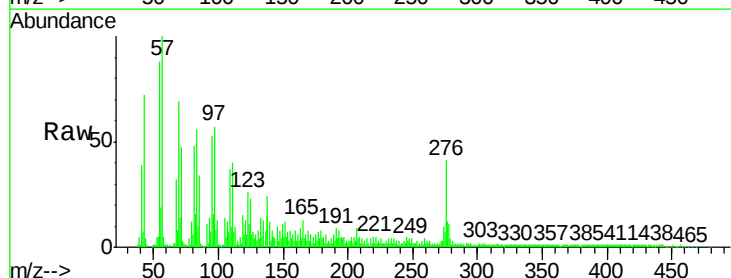
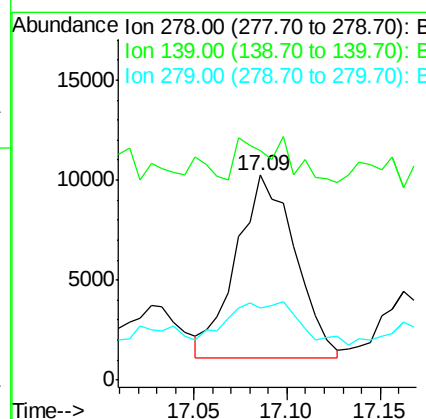
RT: 17.09 min Scan# 2550

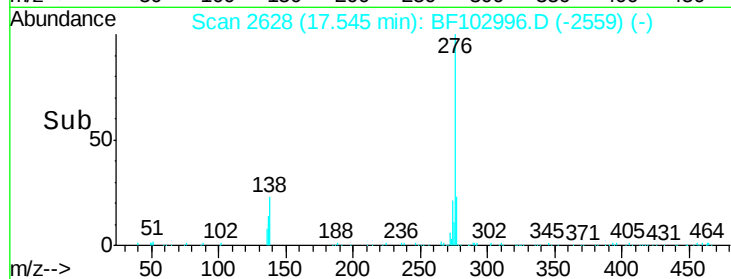
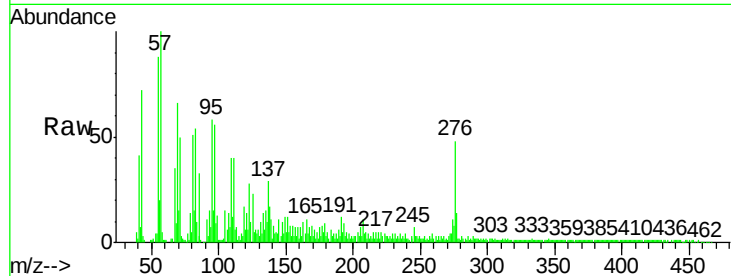
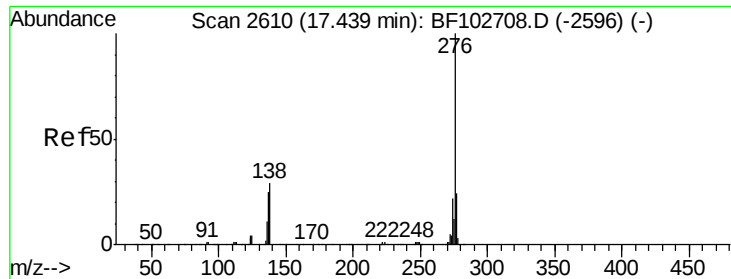
Delta R.T. 0.08 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	112.2	15.9	23.9#
279	35.0	19.0	28.4#





#91
Benzo(a,h,i)perylene
Concen: 13.111 ng/ml
RT: 17.54 min Scan# 2628
Delta R.T. 0.11 min
Lab File: BF102996.D
Acq: 14 Feb 2018 18:19

Instrument :
BNA_F
ClientSampleId :
CB-1-NW(0-4)

Tot Ion	Ratio	Lower	Upper
276	100		
277	28.5	17.9	26.9
138	36.7	21.8	32.8

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:30 AM

