

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020618\
 Data File : BF102778.D
 Acq On : 6 Feb 2018 12:36
 Operator : SJ/JU
 Sample : J1454-10DL 4X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-8-EW(4-7)DL

Manual Integrations
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Sohil
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Quant Time: Feb 06 15:07:32 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 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	205540	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	827114	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	351920	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	484734	20.00	ng	0.00
75) Chrysene-d12	14.06	240	322495	20.00	ng	0.00
86) Perylene-d12	15.54	264	364262	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	308530	22.80	ng	0.00
7) Phenol-d6	6.49	99	378970	23.26	ng	-0.01
23) Nitrobenzene-d5	7.44	82	220697	18.51	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	53424	18.86	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	385715	18.19	ng	-0.01
78) Terphenyl-d14	12.99	244	226664	16.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	501701	12.415	ng	99
32) Benzoic acid	7.94	122	3746m	8.985	ng	
37) 2-Methylnaphthalene	8.87	142	108193	4.089	ng	99
51) Acenaphthene	9.95	154	194526	8.975	ng	99
54) Dibenzofuran	10.12	168	187982	6.154	ng	97
57) Fluorene	10.47	166	231509	10.417	ng	98
70) Phenanthrene	11.43	178	1387836	51.408	ng	100
71) Anthracene	11.49	178	451546	16.445	ng	99
72) Carbazole	11.63	167	213853	7.950	ng	95
74) Fluoranthene	12.63	202	1245317	45.848	ng	99
77) Pyrene	12.86	202	1121947	44.366	ng	99
80) Benzo(a)anthracene	14.04	228	613683	30.258	ng	99
82) Chrysene	14.08	228	568023	27.783	ng	97
85) Indeno(1,2,3-cd)pyrene	17.03	276	300032	17.694	ng	95
87) Benzo(b)fluoranthene	15.10	252	751075m	31.803	ng	
88) Benzo(k)fluoranthene	15.13	252	233012m	10.326	ng	
89) Benzo(a)pyrene	15.47	252	541421	25.469	ng	# 93
90) Dibenzo(a,h)anthracene	17.04	278	78547	4.552	ng	# 87
91) Benzo(a,h,i)perylene	17.48	276	264563	15.666	ng	95

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

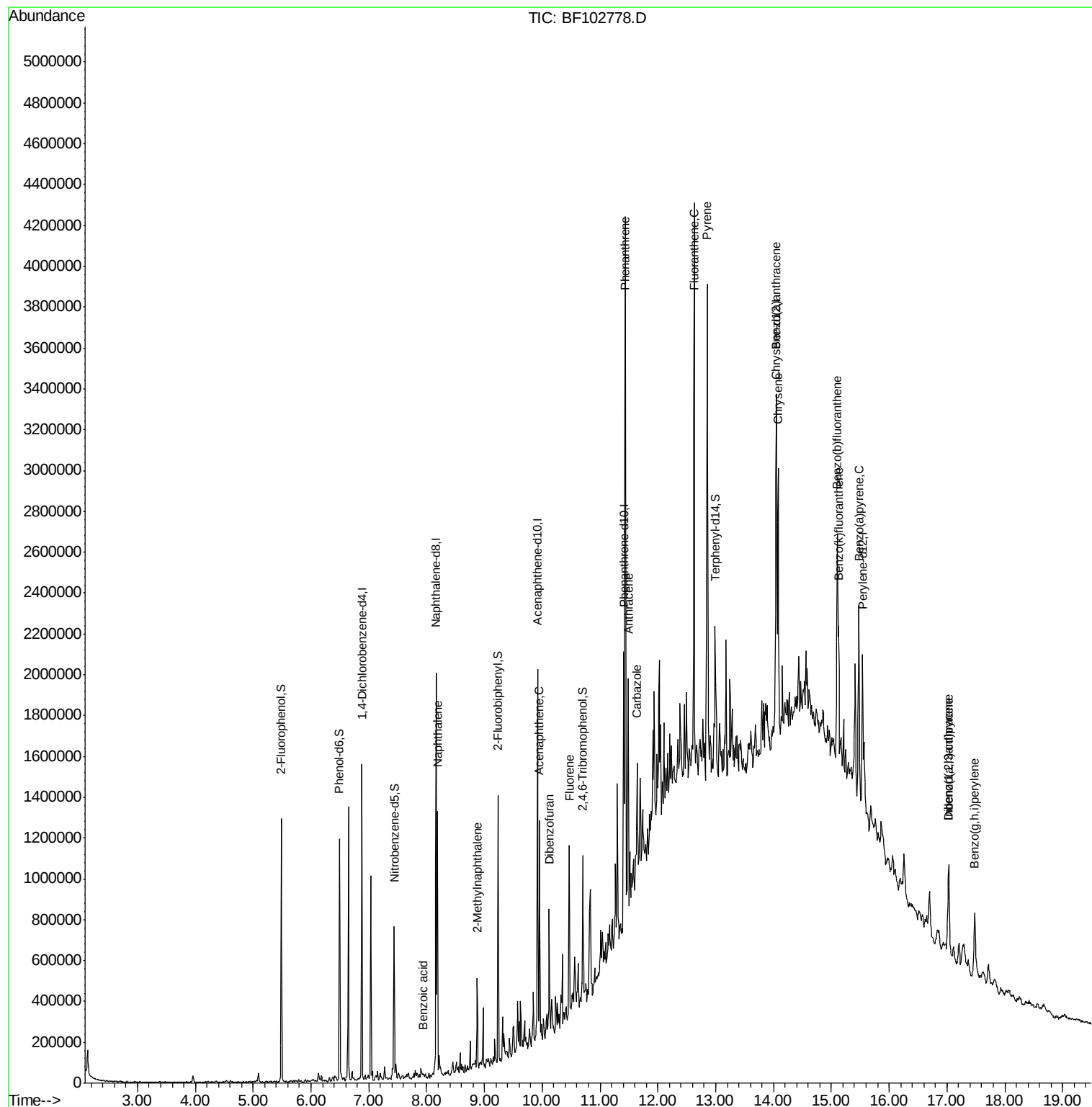
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#1

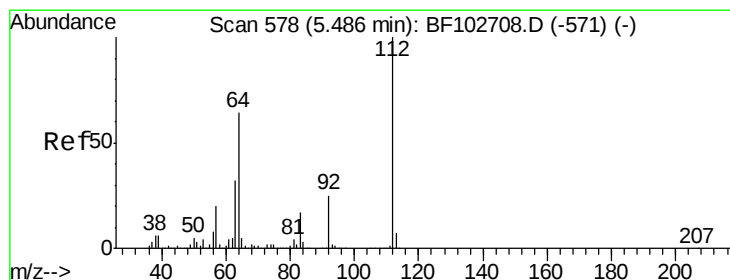
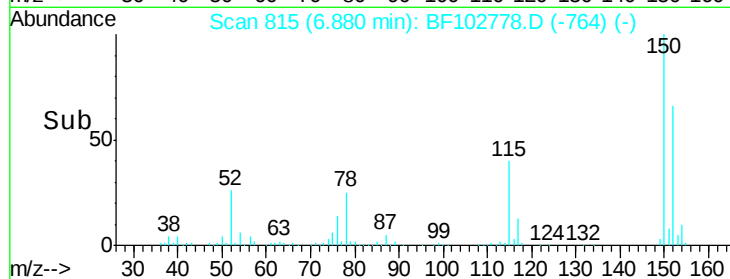
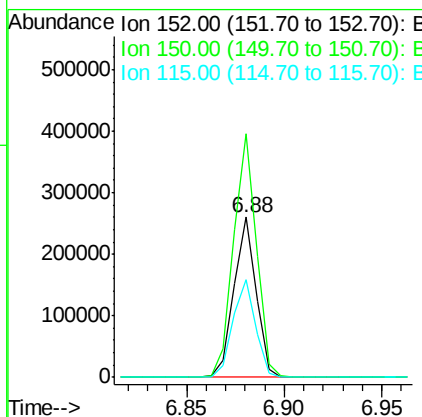
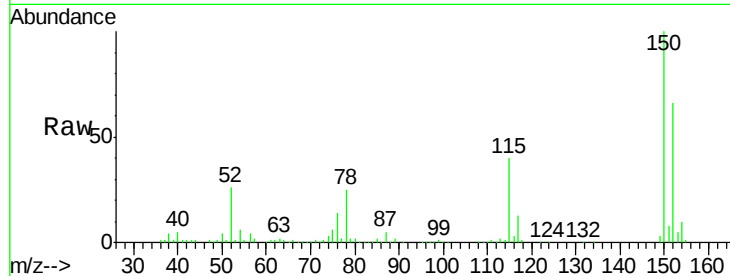
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	124.6	186.8
115	61.2	50.1	75.1

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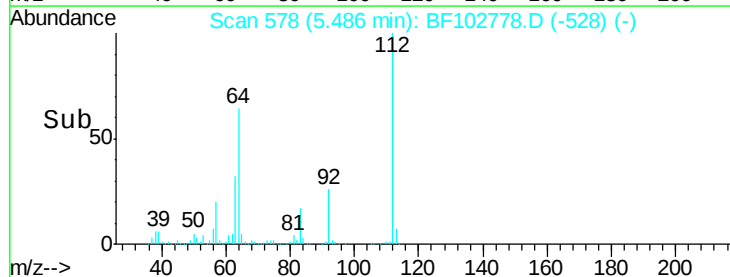
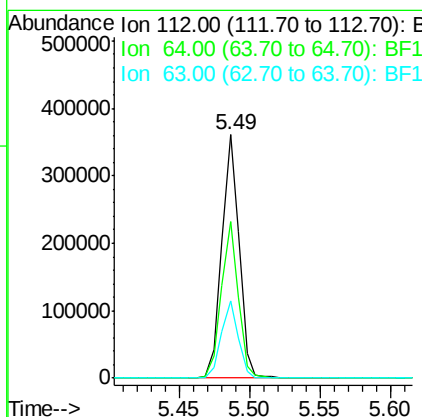
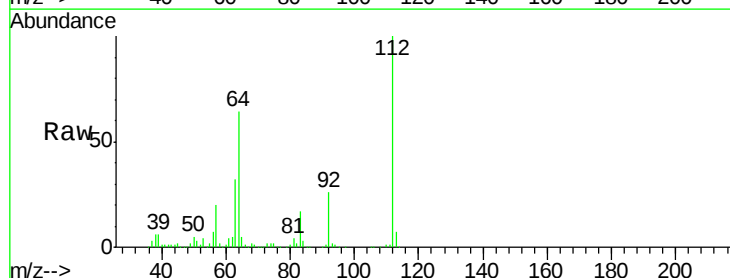
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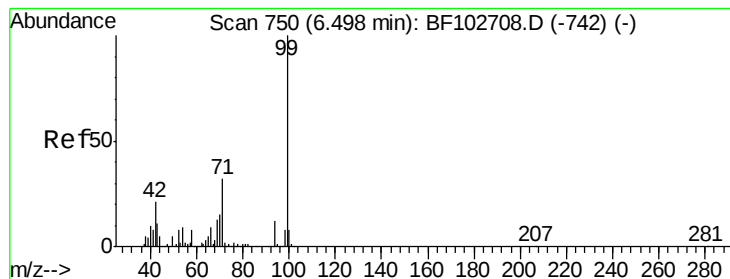


#5

2-Fluorophenol
Concen: 22.796 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	47.9	71.9
63	31.9	23.7	35.5





#7

Phenol-d6

Concen: 23.255 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

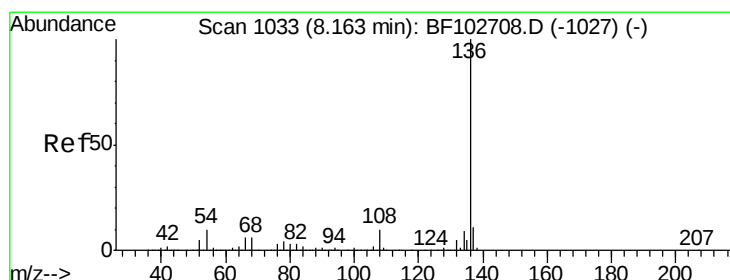
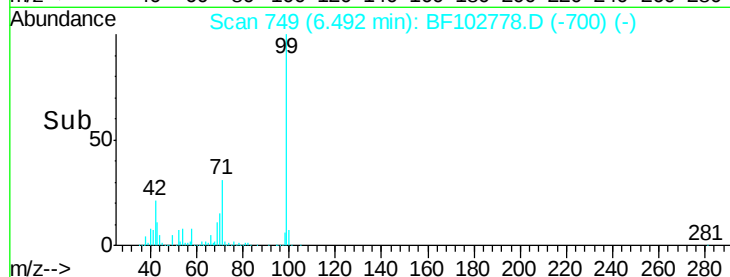
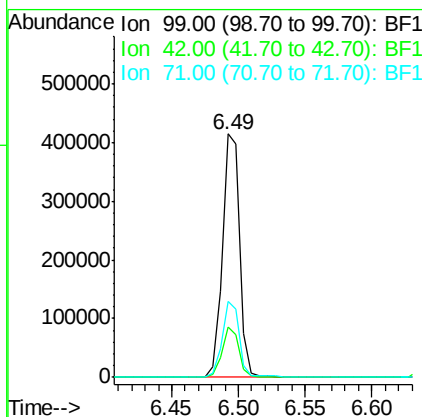
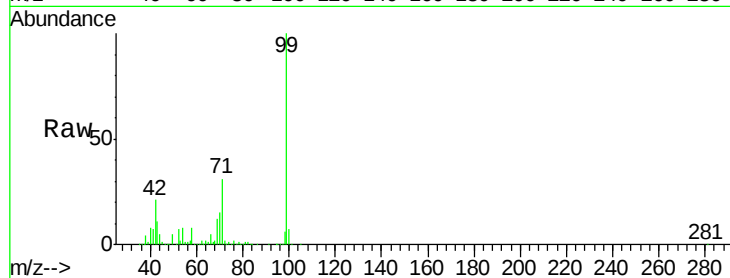
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion:	99	Resp:	378970
Ion Ratio	Lower	Upper	
99	100		
42	20.8	14.5	21.7
71	31.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

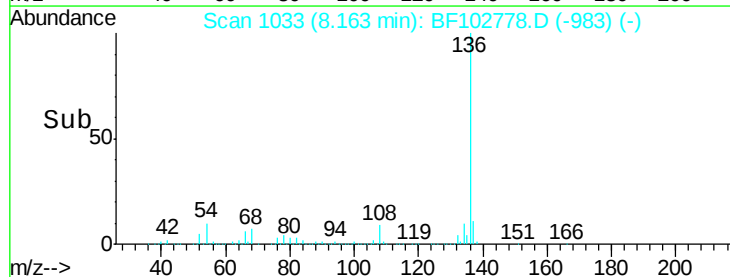
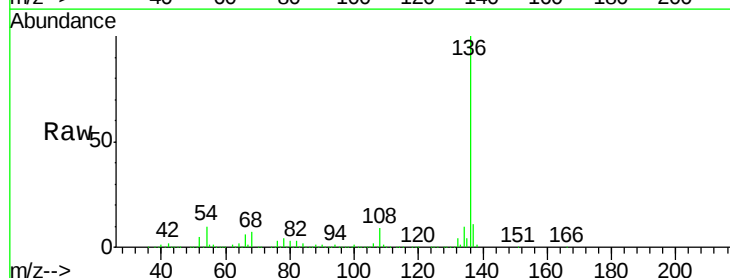
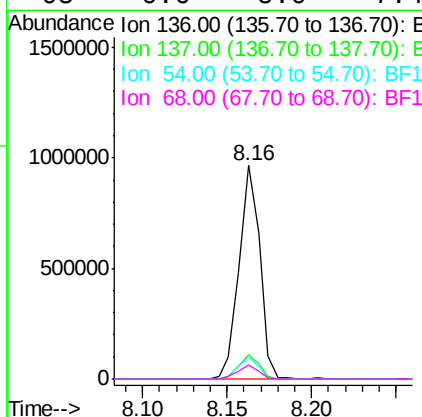
RT: 8.16 min Scan# 1033

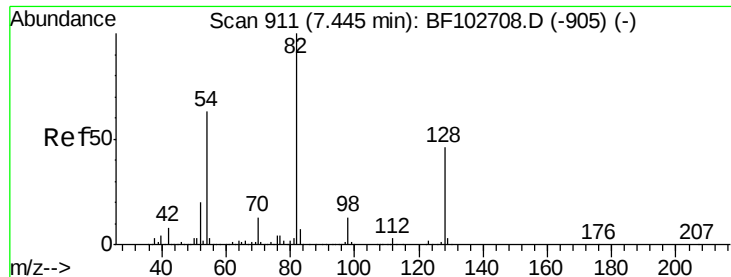
Delta R.T. -0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion:	136	Resp:	827114
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.1	6.6	9.8#
68	6.6	5.0	7.4





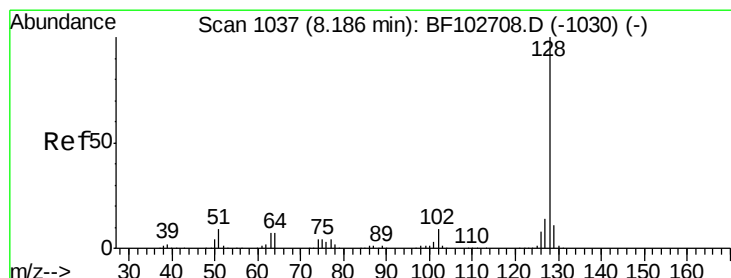
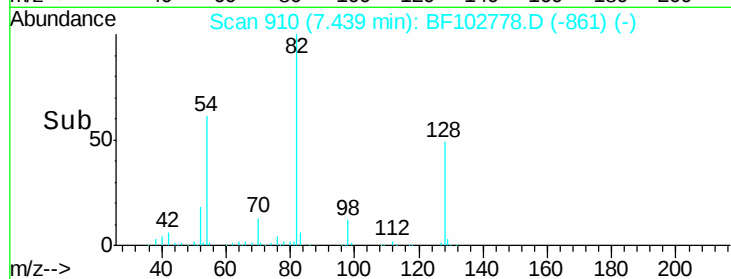
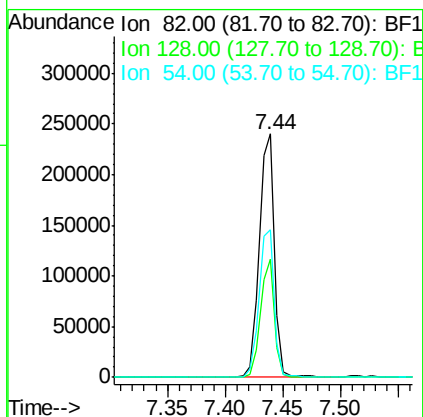
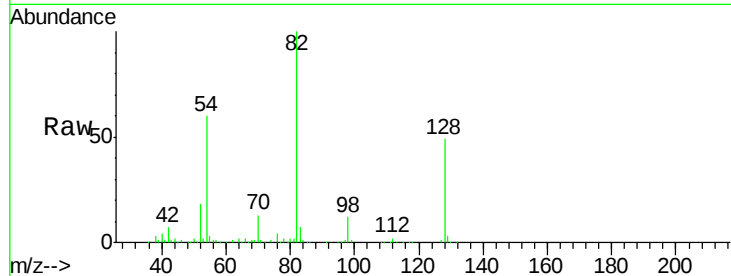
#23
Nitrobenzene-d5
Concen: 18.510 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.6	36.1	54.1
54	60.4	41.4	62.2

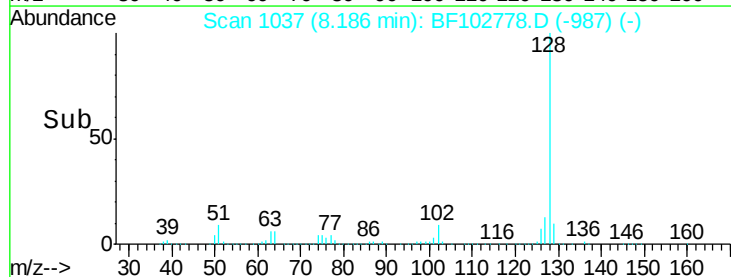
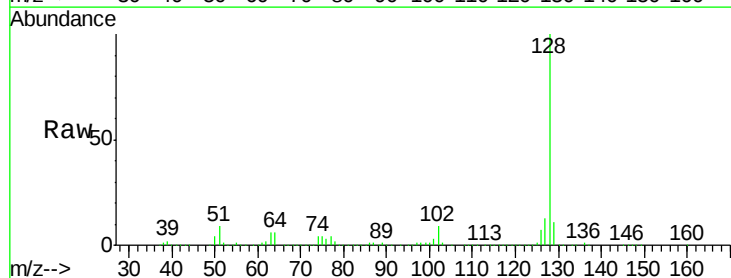
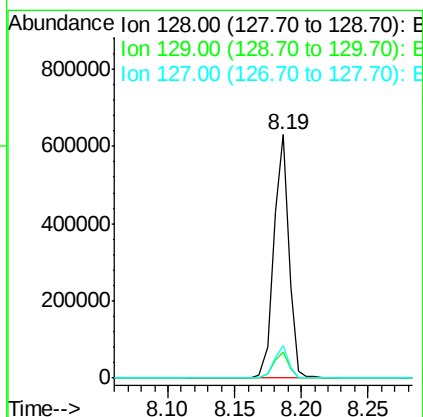
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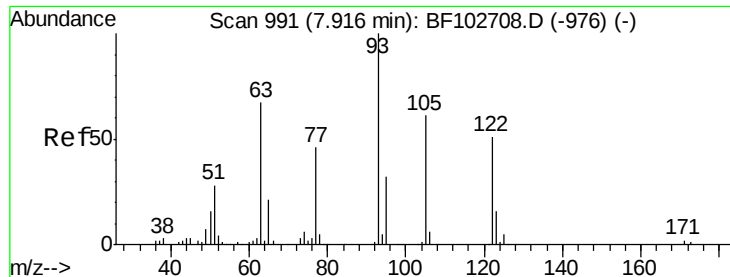
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#31
Naphthalene
Concen: 12.415 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	13.2	10.9	16.3





#32

Benzoic acid

Concen: 8.985 ng m

RT: 7.94 min Scan# 995

Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

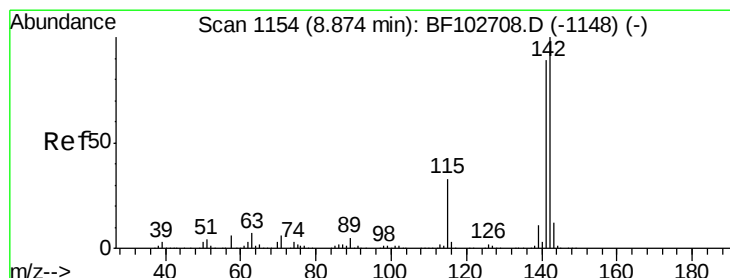
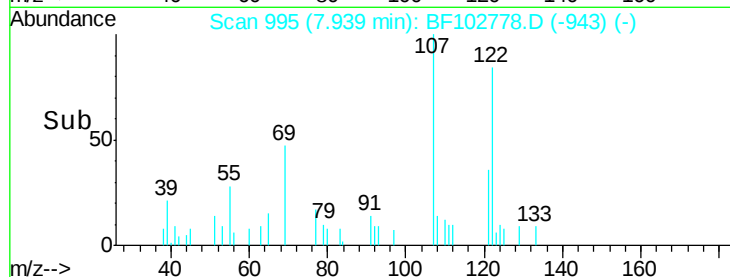
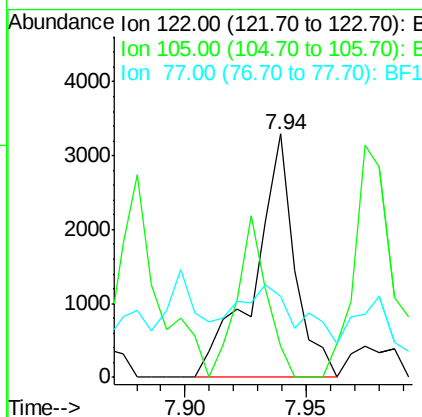
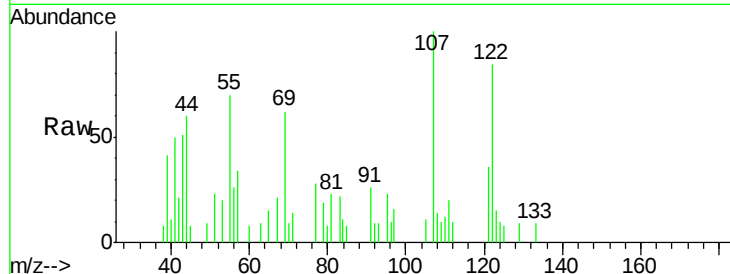
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion:	122	Resp:	3746
Ion Ratio	Lower	Upper	
122	100		
105	12.8	101.1	141.1#
77	33.3	70.7	110.7#

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#37

2-Methylnaphthalene

Concen: 4.089 ng

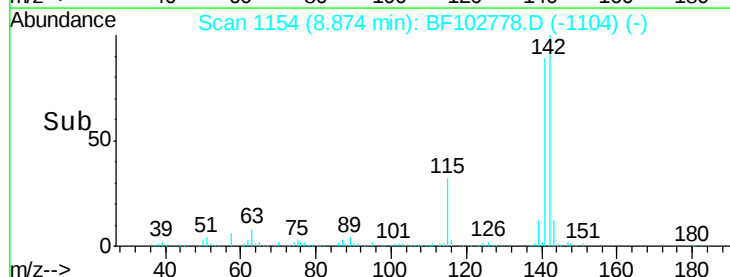
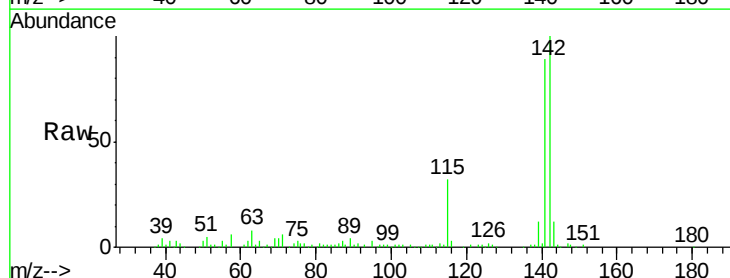
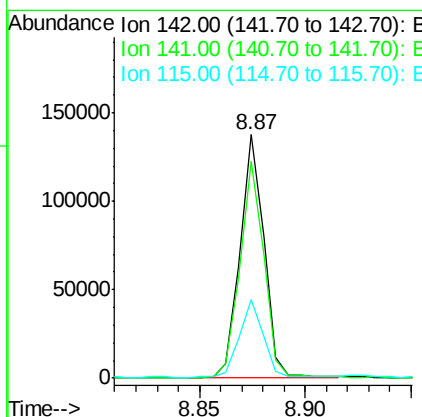
RT: 8.87 min Scan# 1154

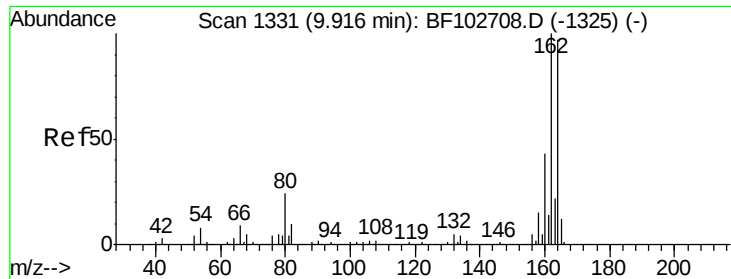
Delta R.T. -0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion:	142	Resp:	108193
Ion Ratio	Lower	Upper	
142	100		
141	89.2	70.8	106.2
115	32.4	26.1	39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

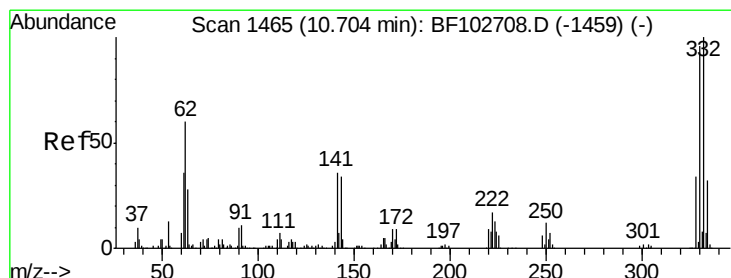
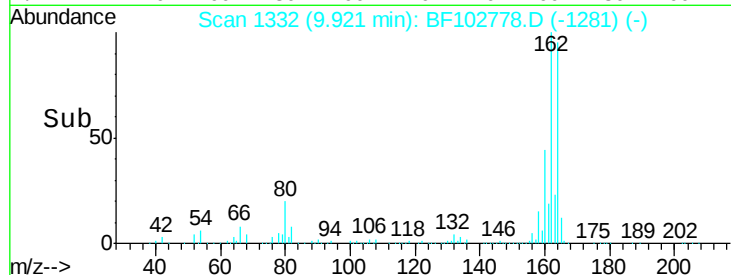
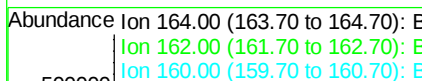
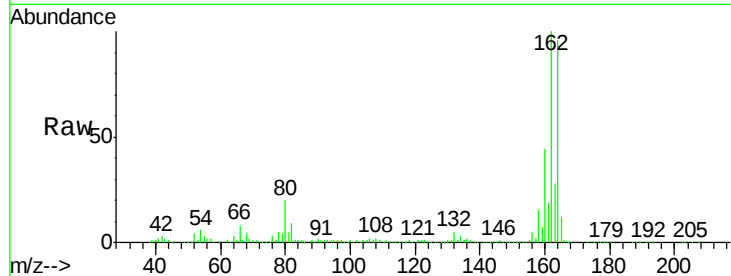
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion:	164	Resp:	351920
Ion Ratio	Lower	Upper	
164	100		
162	104.4	86.1	129.1
160	46.3	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 18.861 ng

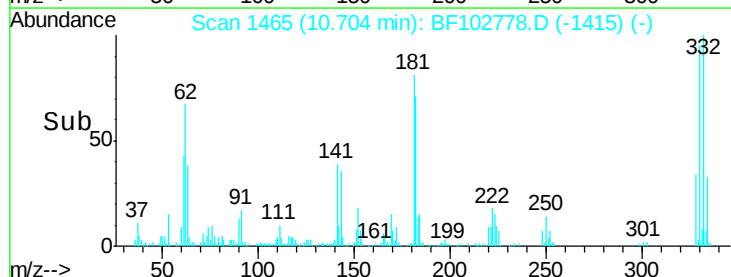
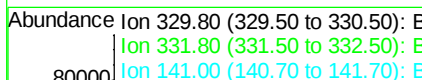
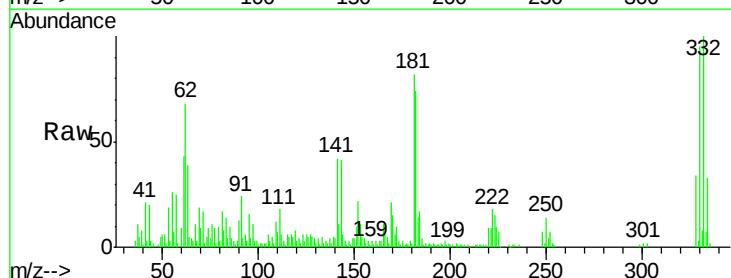
RT: 10.70 min Scan# 1465

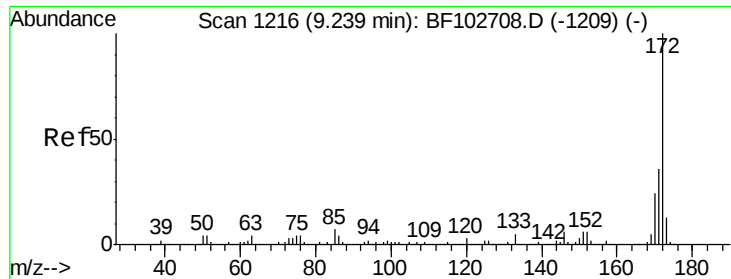
Delta R.T. -0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion:	330	Resp:	53424
Ion Ratio	Lower	Upper	
330	100		
332	106.0	77.0	115.6
141	43.3	29.9	44.9





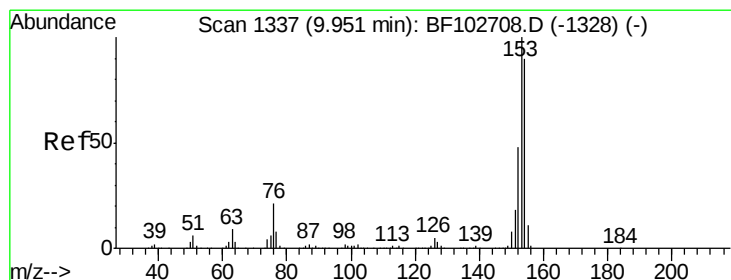
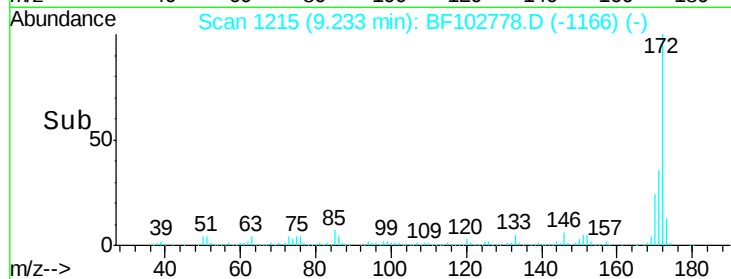
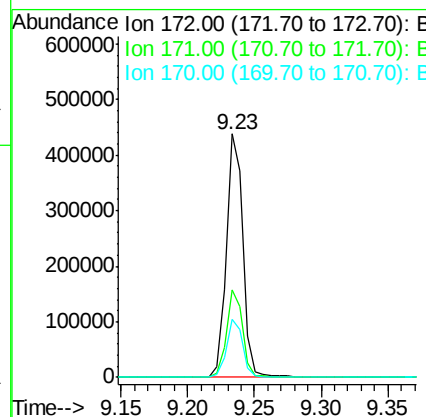
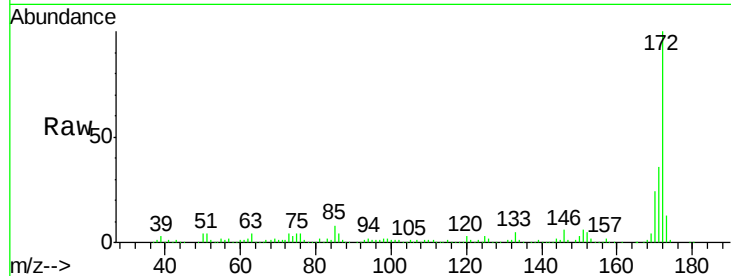
#44
2-Fluorobiphenyl
Concen: 18.187 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	385715		
171	36.0		29.7	44.5
170	24.1		19.6	29.4

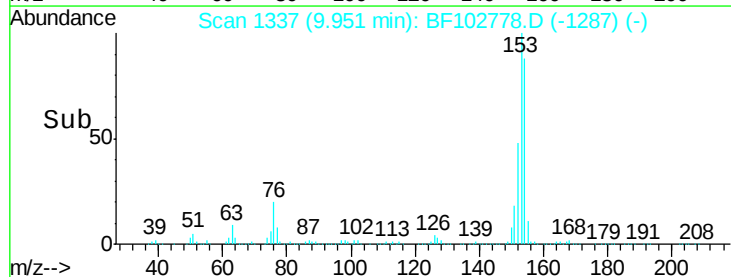
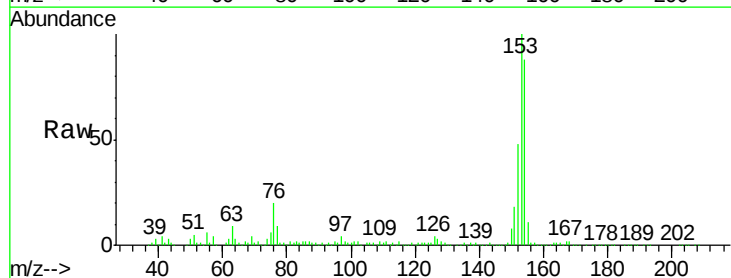
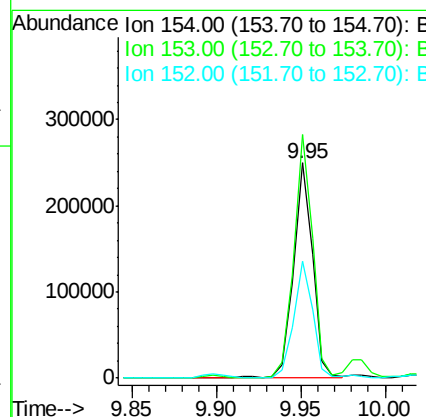
Manual Integrations
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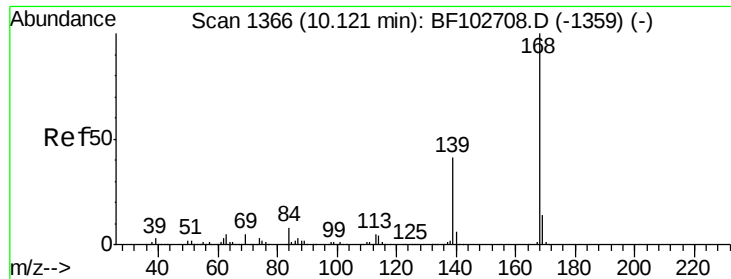
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#51
Acenaphthene
Concen: 8.975 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	194526		
153	113.2		91.2	136.8
152	54.2		43.8	65.8





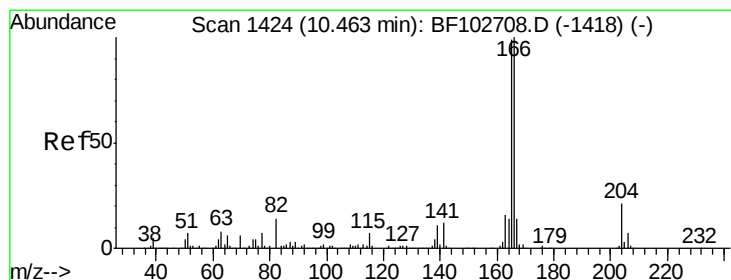
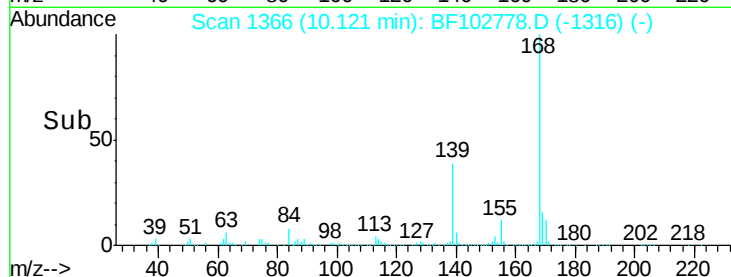
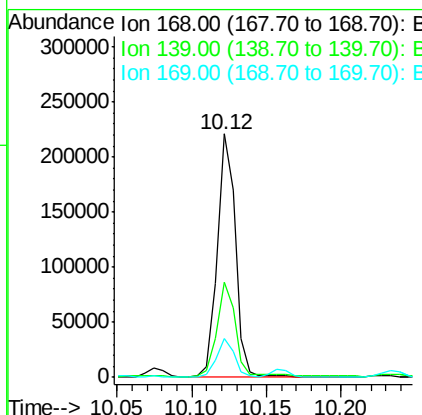
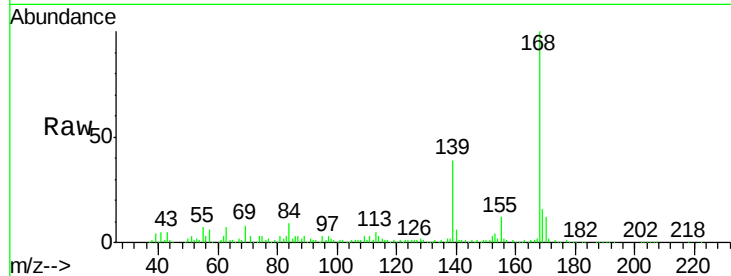
#54
Dibenzenofuran
Concen: 6.154 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.1	30.1	45.1
169	16.0	10.9	16.3

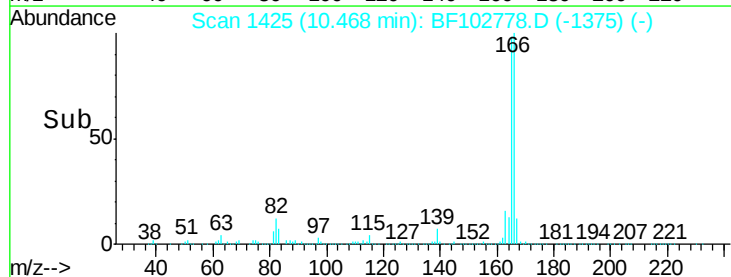
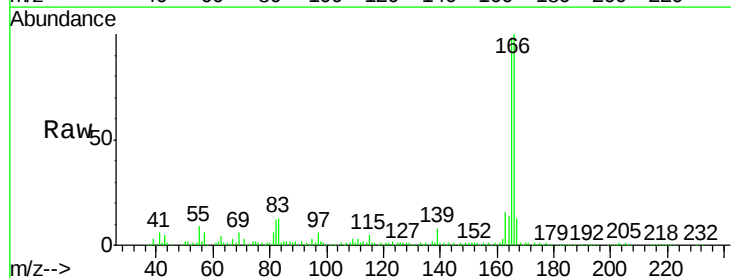
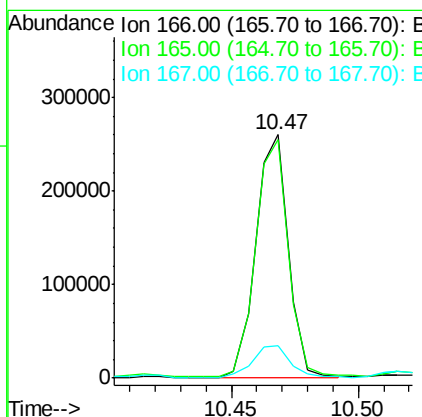
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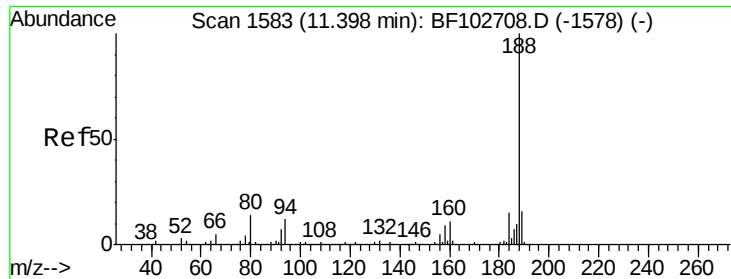
Sohil
2/7/2018 4:16:11 PM



#57
Fluorene
Concen: 10.417 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.8	119.8
167	13.2	10.6	16.0





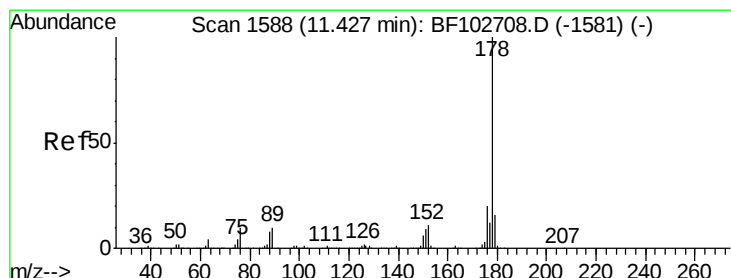
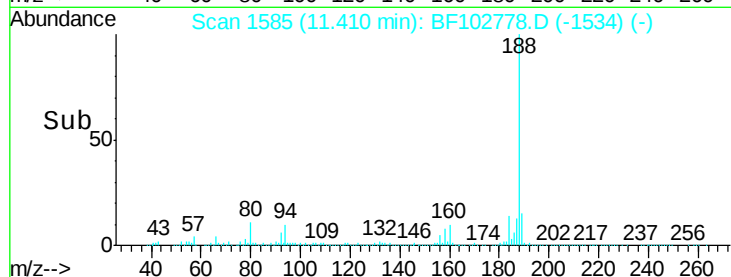
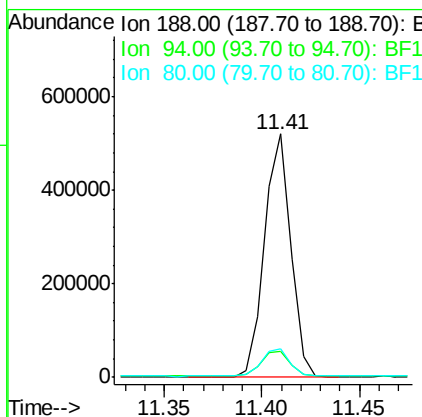
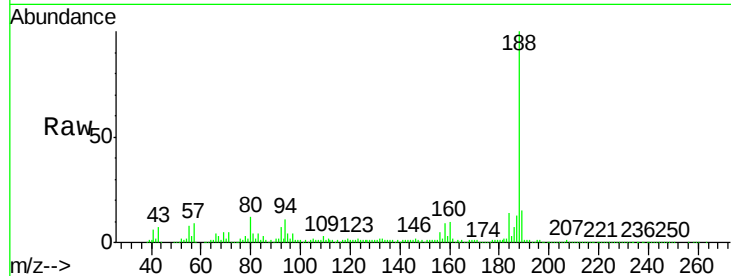
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	484734		
94	10.6		8.5	12.7
80	11.7		9.2	13.8

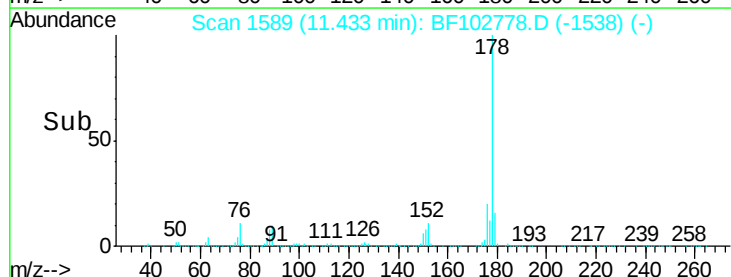
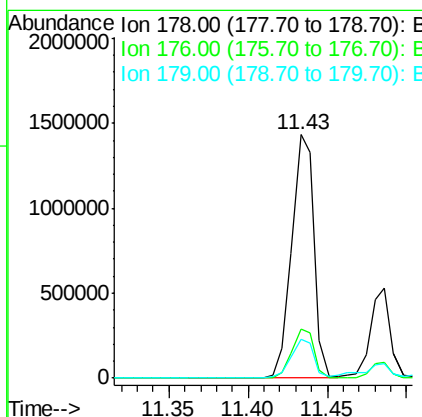
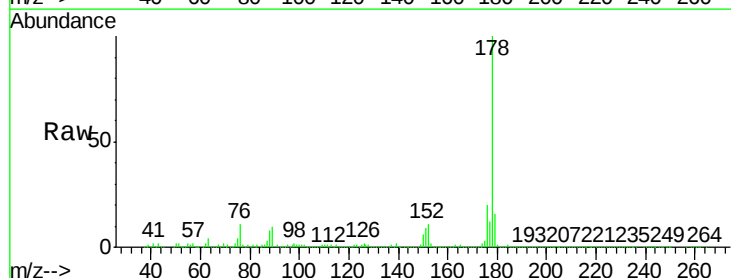
Manual Integrations
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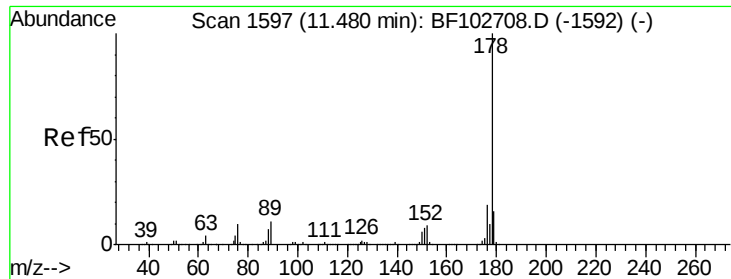
Sohil
2/7/2018 4:16:11 PM



#70
Phenanthrene
Concen: 51.408 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1387836		
176	20.0		15.8	23.8
179	16.1		13.0	19.6





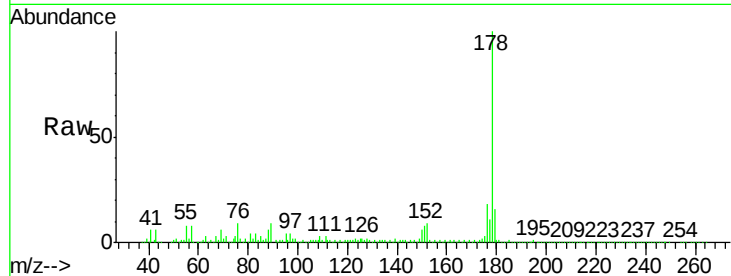
#71
 Anthracene
 Concen: 16.445 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: BF102778.D
 Acq: 6 Feb 2018 12:36

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-8-EW(4-7)DL

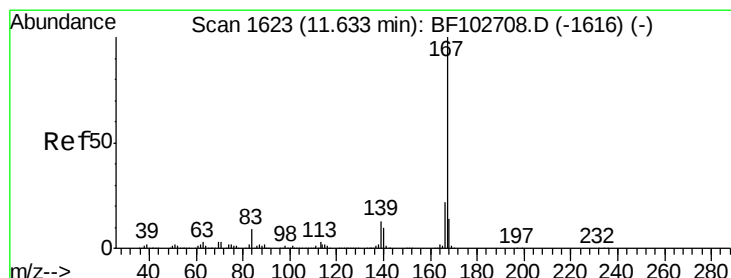
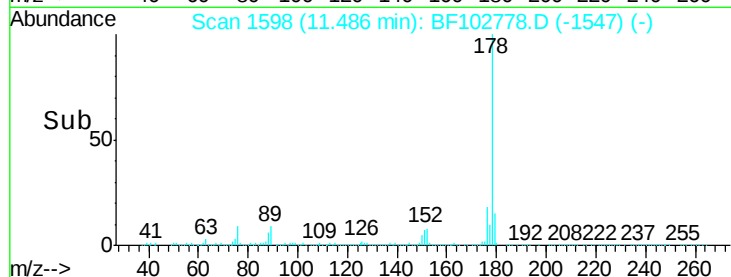
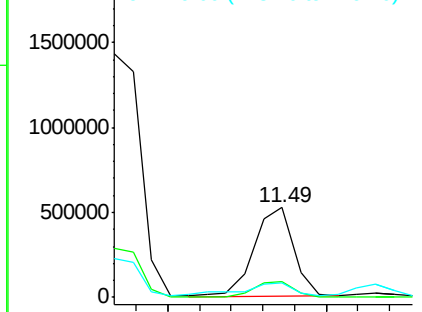
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.8	12.6	19.0

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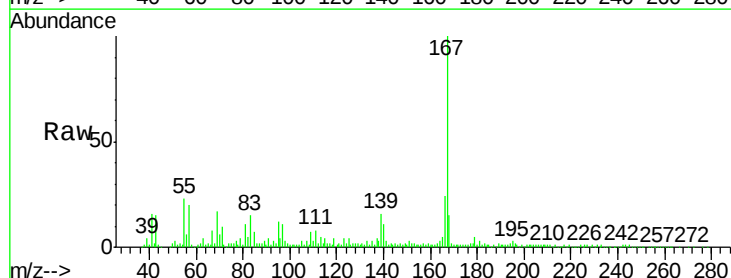


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

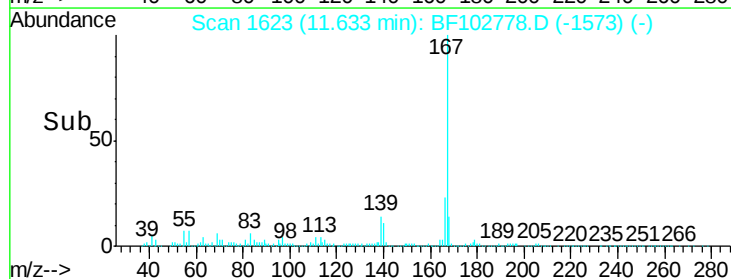
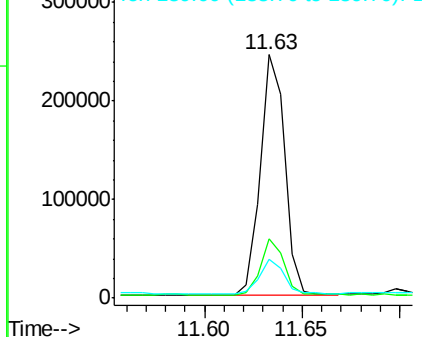


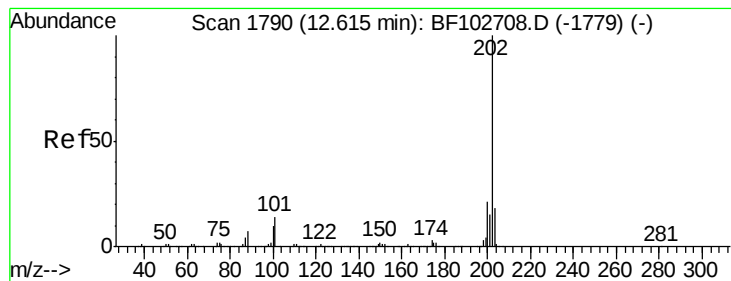
#72
 Carbazole
 Concen: 7.950 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BF102778.D
 Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.2	17.6	26.4
139	15.7	10.9	16.3



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: 45.848 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

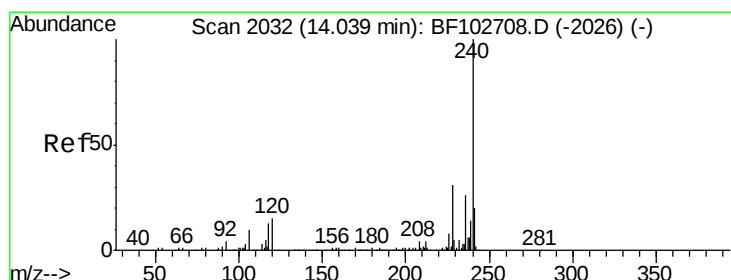
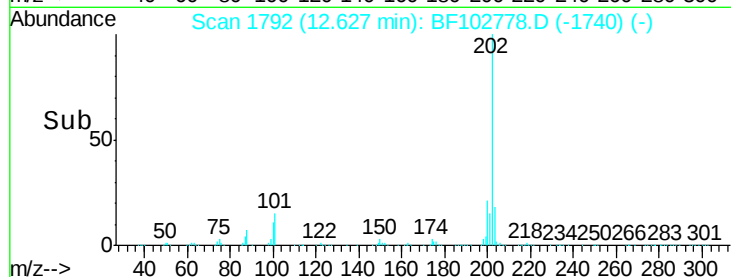
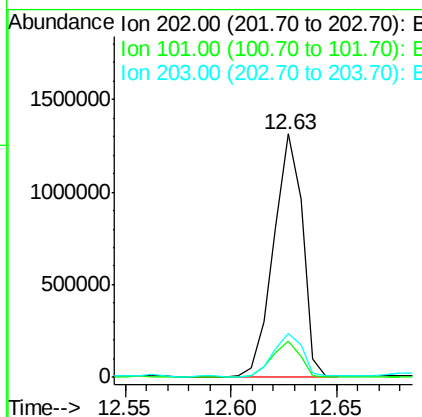
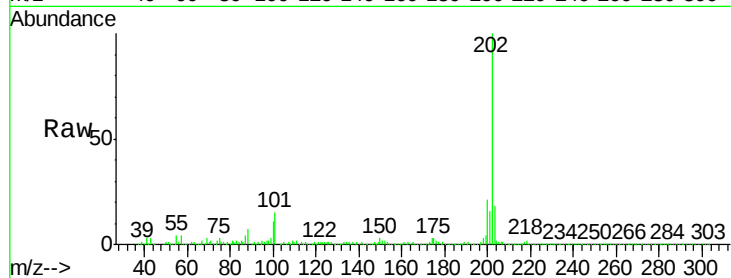
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion:	202	Resp:	1245317
Ion Ratio	Lower	Upper	
202	100		
101	14.8	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

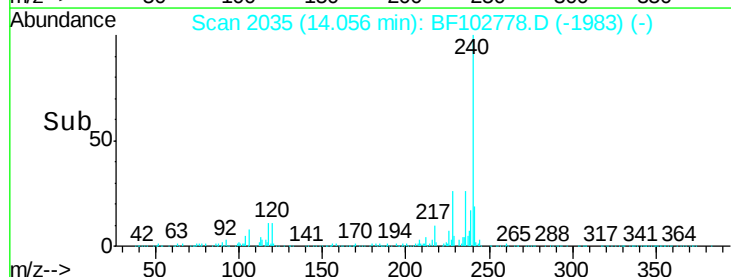
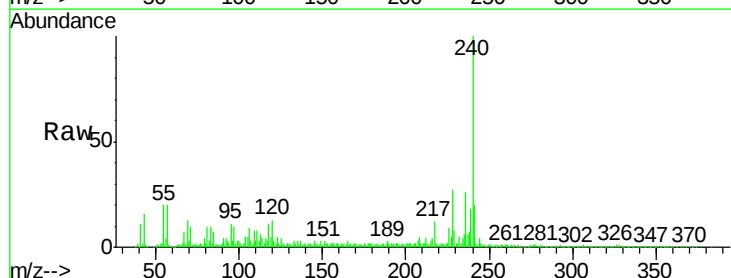
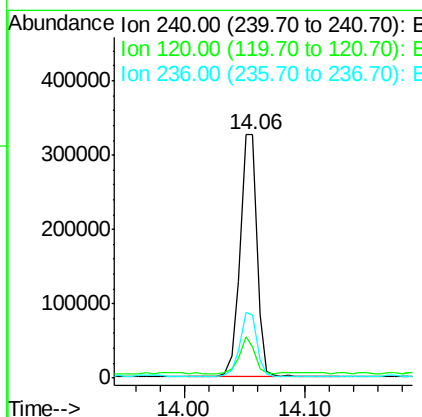
RT: 14.06 min Scan# 2035

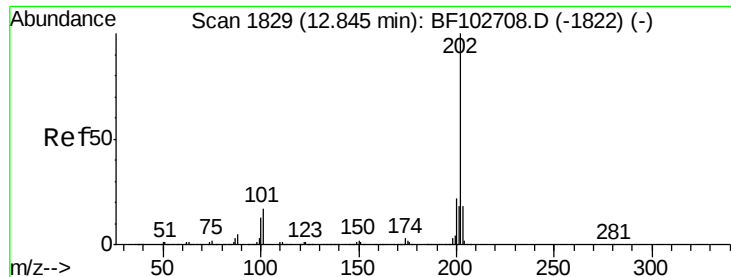
Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion:	240	Resp:	322495
Ion Ratio	Lower	Upper	
240	100		
120	13.0	9.5	14.3
236	26.0	20.7	31.1





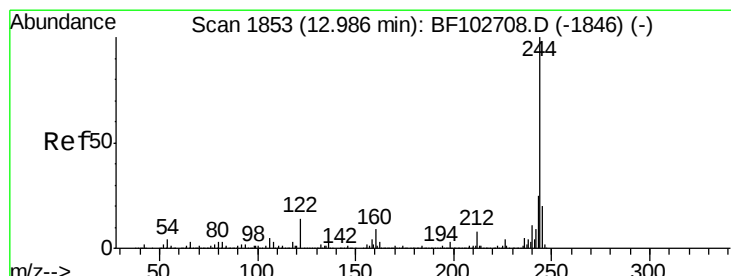
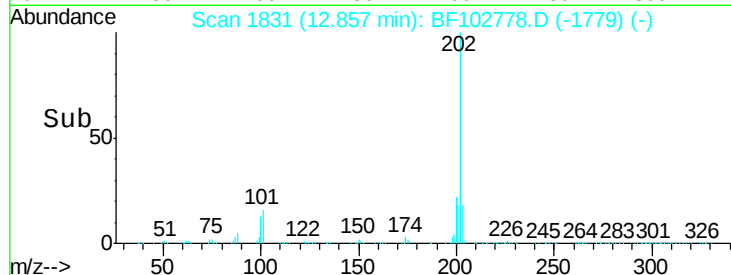
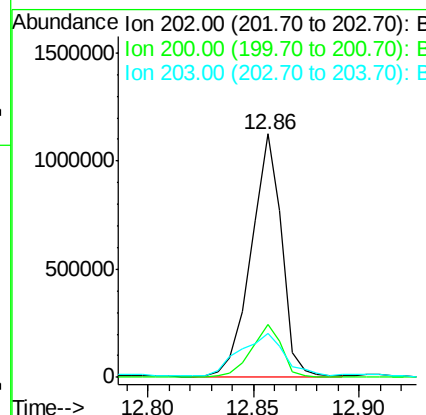
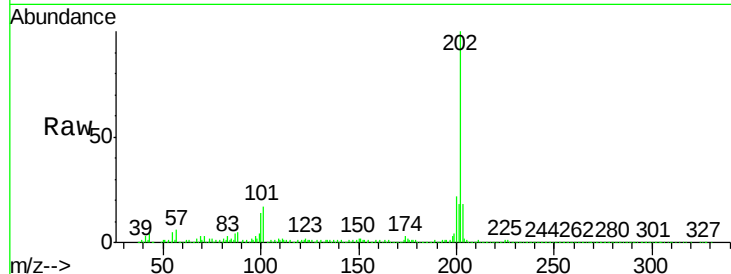
#77
Pvrene
Concen: 44.366 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	18.3	14.3	21.5

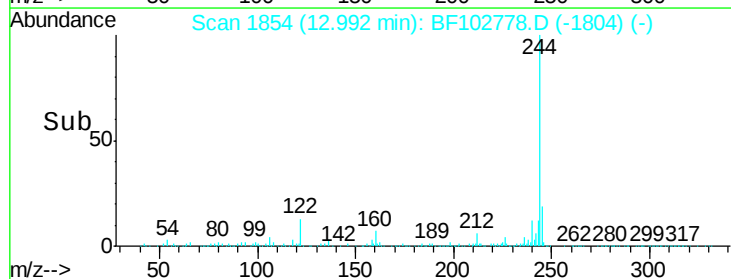
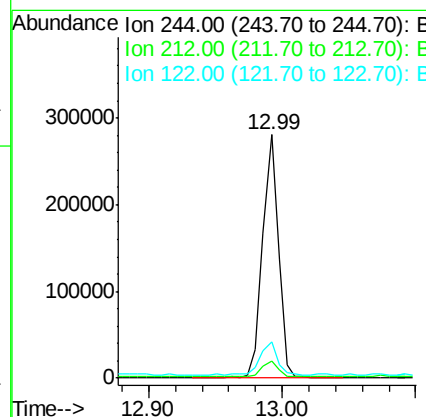
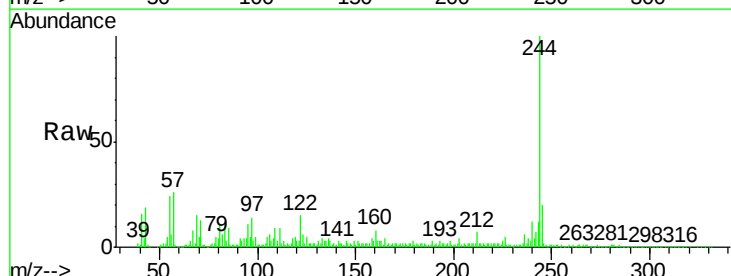
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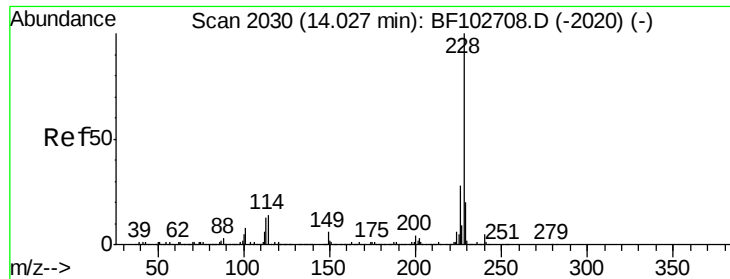
Sohil
2/7/2018 4:16:11 PM



#78
Terphenyl-d14
Concen: 16.642 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	15.0	11.0	16.4





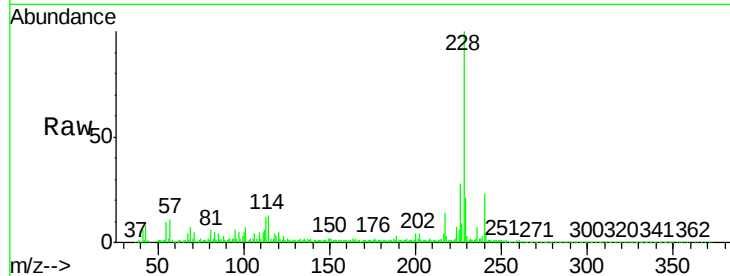
#80
Benzo(a)anthracene
Concen: 30.258 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	613683		
226	28.1		22.6	33.8
229	21.2		15.8	23.6

Manual Integrations
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2/7/2018 4:16:11 PM

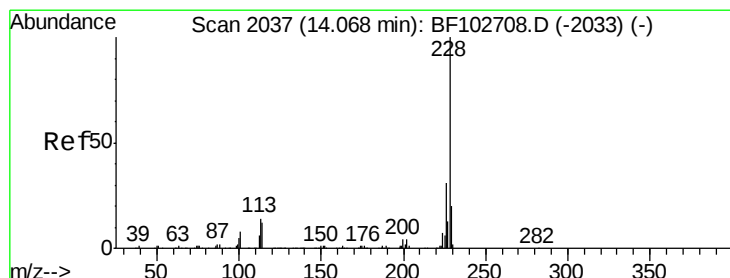
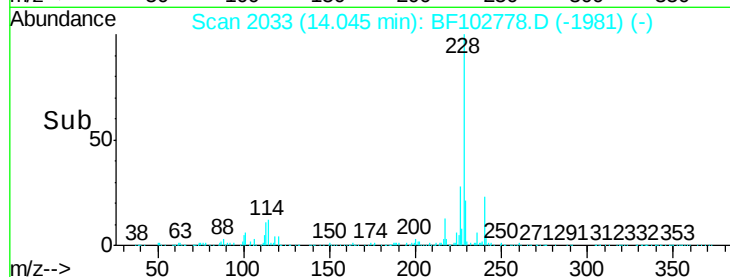
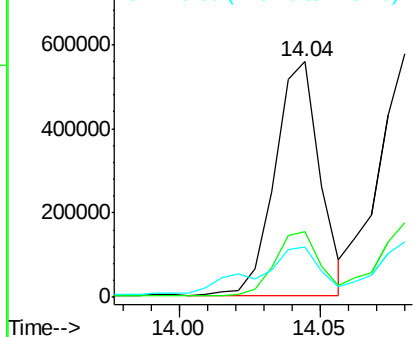


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82
Chrysene
Concen: 27.783 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.00 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

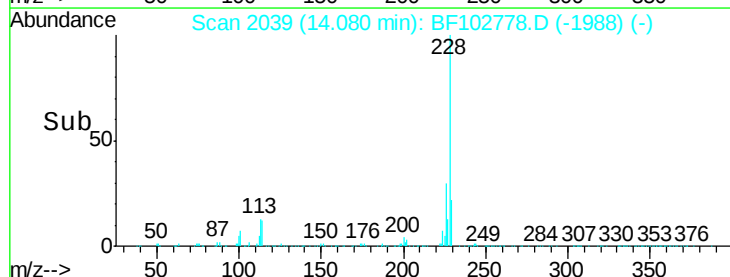
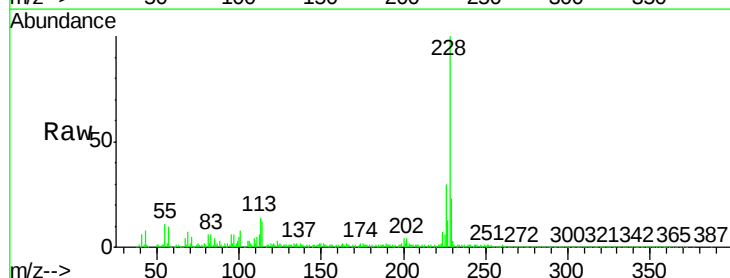
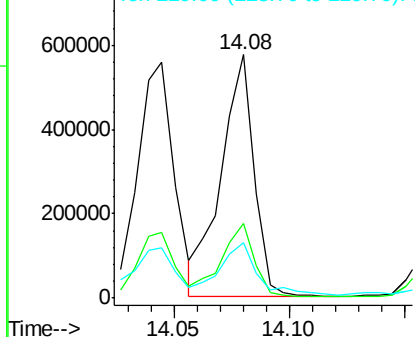
Tgt Ion	Ratio	Resp	Lower	Upper
228	100	568023		
226	30.5		25.0	37.6
229	23.0		16.2	24.4

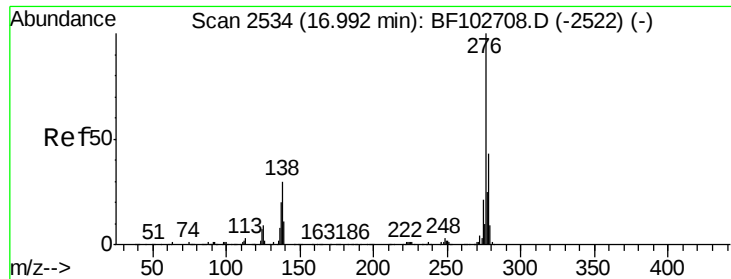
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





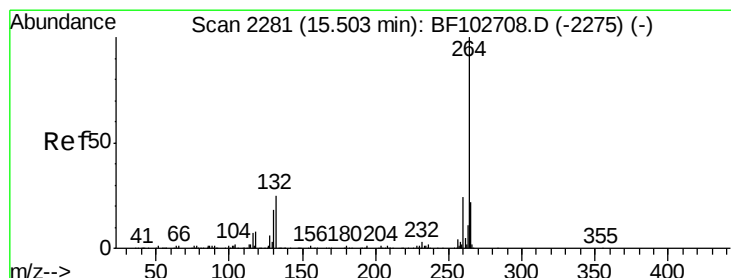
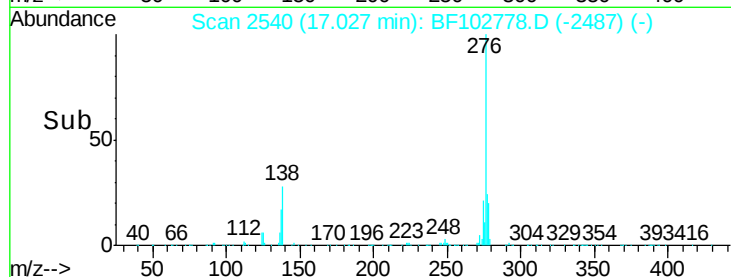
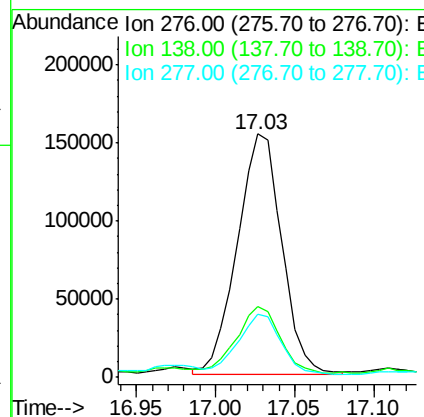
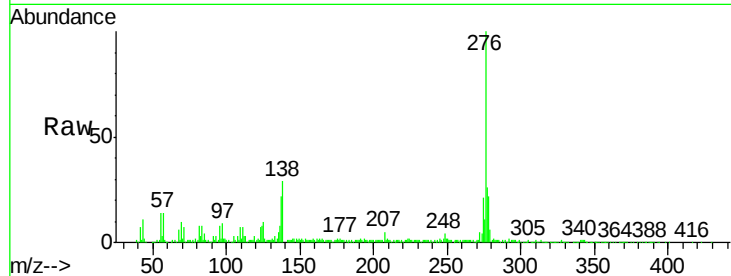
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.694 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Instrument :
BNA_F
ClientSampleId :
8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.2	25.0	37.6
277	24.6	20.1	30.1

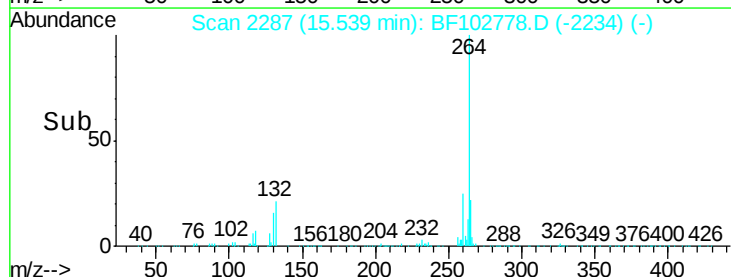
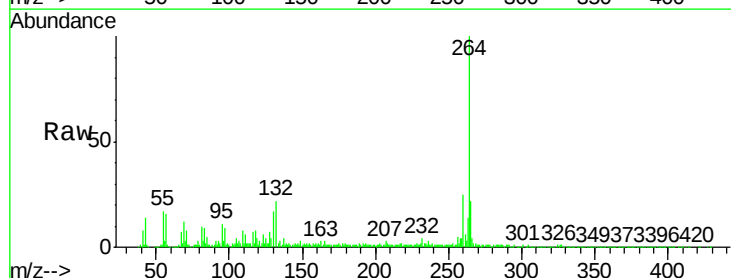
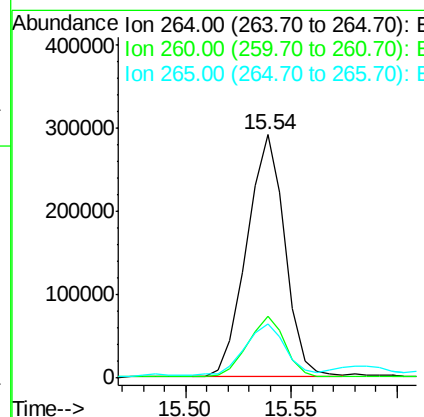
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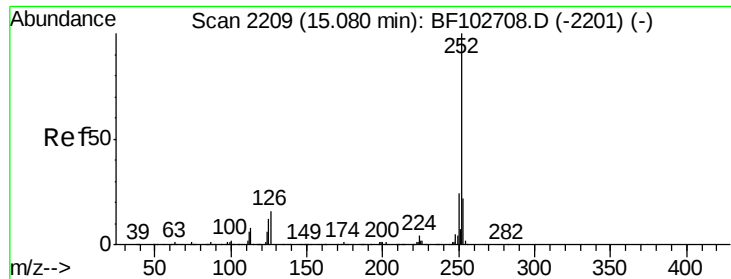
Sohil
2/7/2018 4:16:11 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102778.D
Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 31.803 ng m

RT: 15.10 min Scan# 2213

Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

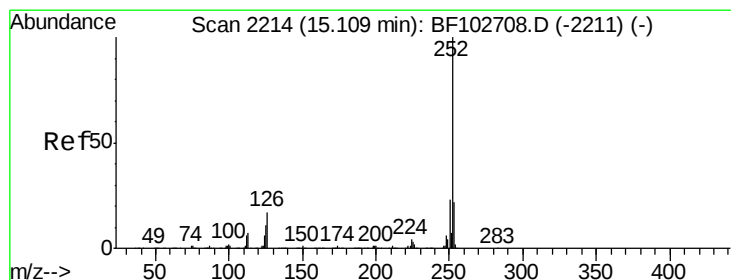
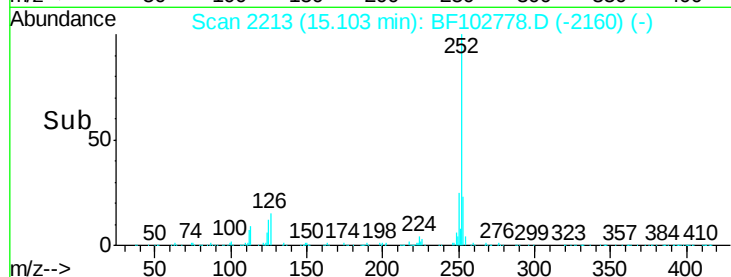
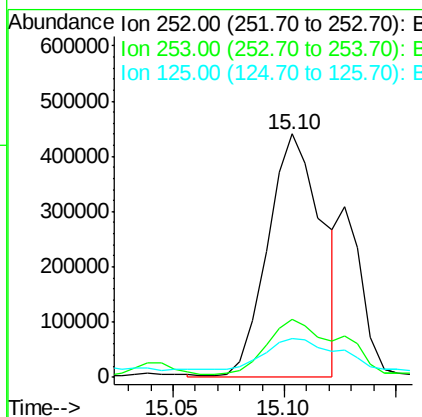
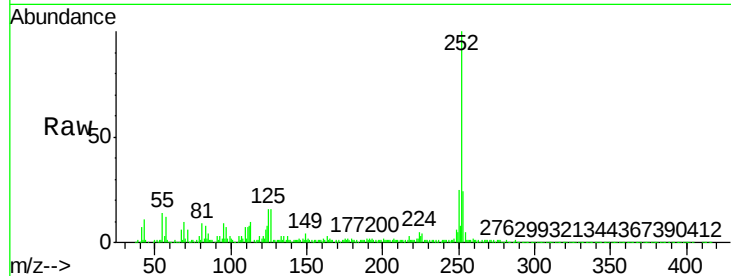
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion:	252	Resp:	751075
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.0	25.6
125	15.8	9.0	13.6#

Manual Integrations
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2/7/2018 4:16:11 PM



#88

Benzo(k)fluoranthene

Concen: 10.326 ng m

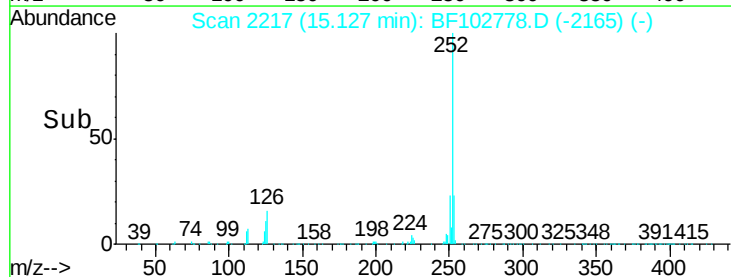
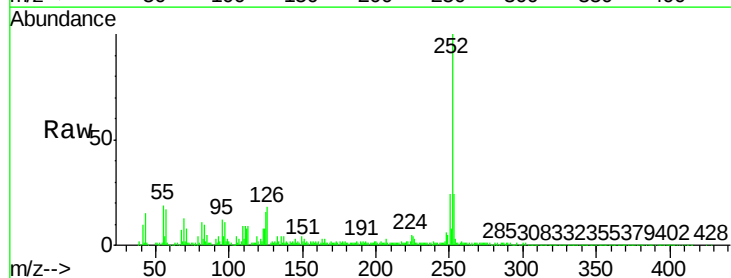
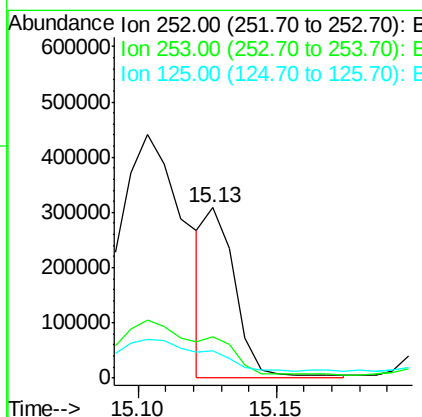
RT: 15.13 min Scan# 2217

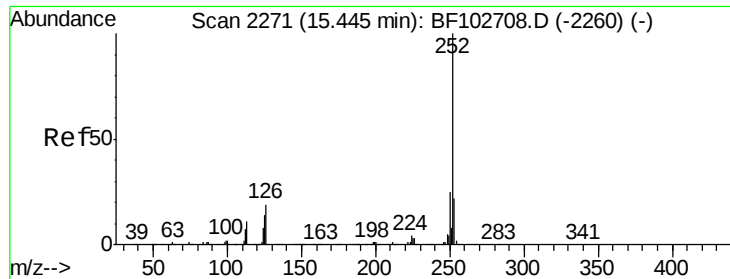
Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion:	252	Resp:	233012
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.9	26.9
125	15.9	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 25.469 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.01 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Instrument :

BNA_F

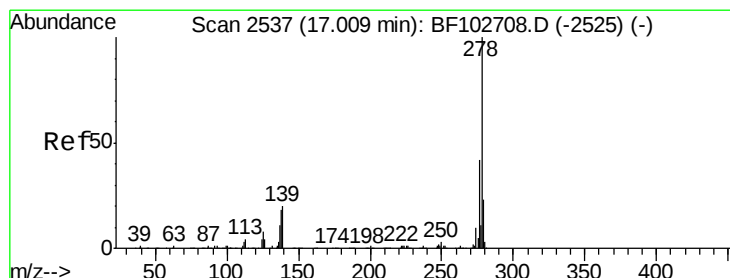
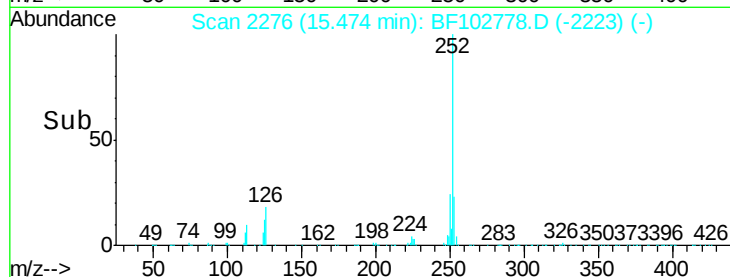
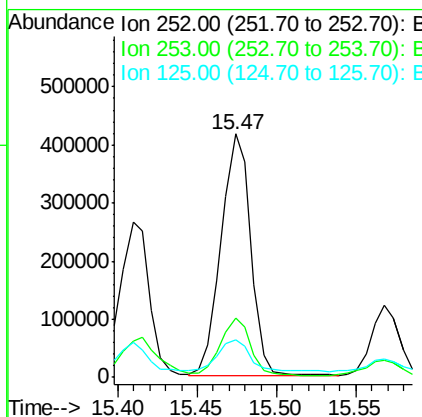
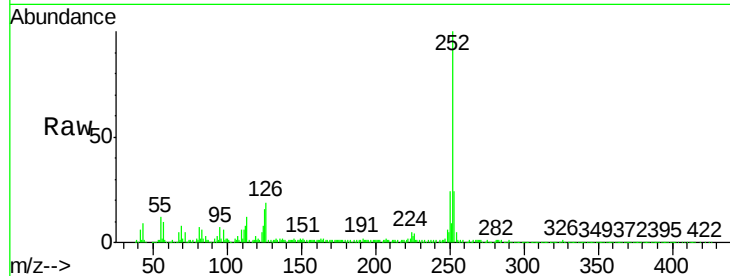
ClientSampleId :

8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.1	25.7
125	15.6	9.8	14.6

Manual Integrations
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#90

Dibenzo(a,h)anthracene

Concen: 4.552 ng

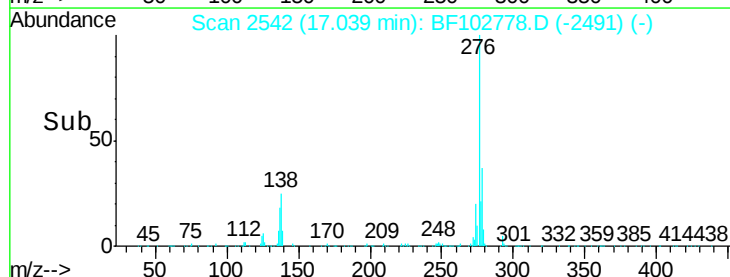
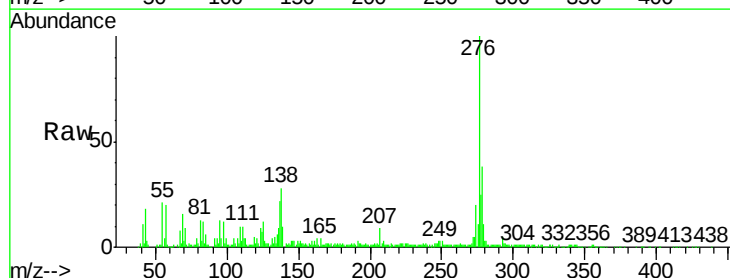
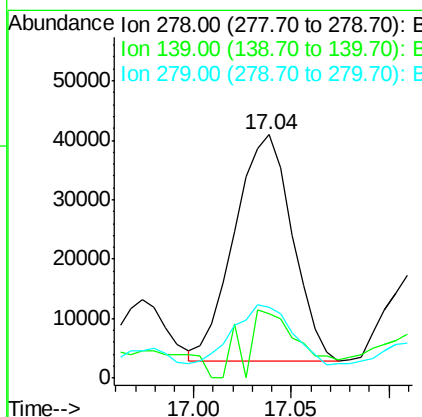
RT: 17.04 min Scan# 2542

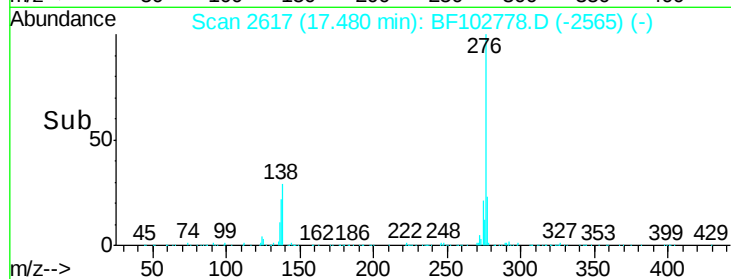
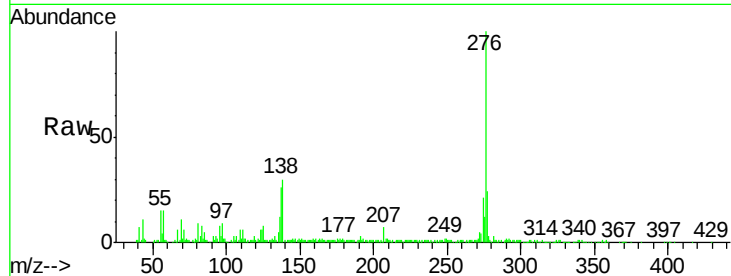
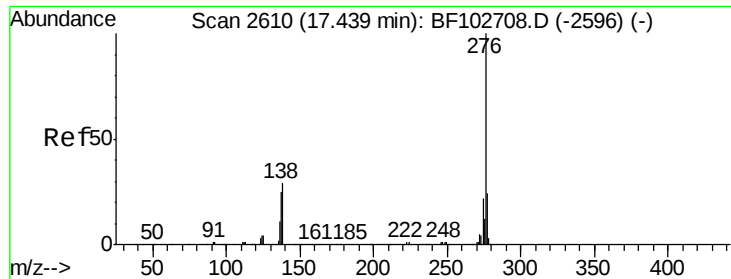
Delta R.T. -0.00 min

Lab File: BF102778.D

Acq: 6 Feb 2018 12:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.5	15.9	23.9
279	29.1	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 15.666 ng
 RT: 17.48 min Scan# 2617
 Delta R.T. 0.01 min
 Lab File: BF102778.D
 Acq: 6 Feb 2018 12:36

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-8-EW(4-7)DL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.8	17.9	26.9
138	30.4	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 2/7/2018 4:16:11 PM

