

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
 Data File : BF100986.D
 Acq On : 29 Nov 2017 18:58
 Operator : SJ/JU
 Sample : I6304-22 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-112817-A

Manual Integrations
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Quant Time: Nov 30 02:28:48 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	77594	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	292738	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	120370	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	188311	20.00	ng	0.00
75) Chrysene-d12	14.02	240	152960	20.00	ng	0.00
86) Perylene-d12	15.50	264	118263	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	83750	17.30	ng	-0.01
7) Phenol-d6	6.47	99	102983	17.25	ng	-0.02
23) Nitrobenzene-d5	7.41	82	58433	13.20	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	21788	17.76	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	131067	16.58	ng	-0.01
78) Terphenyl-d14	12.96	244	93602	14.06	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.16	128	53854	3.819	ng	99
37) 2-Methylnaphthalene	8.85	142	27863	2.977	ng	99
48) Acenaphthylene	9.75	152	42168	3.369	ng	99
51) Acenaphthene	9.92	154	25094	3.297	ng	99
54) Dibenzofuran	10.09	168	35773	3.353	ng	98
57) Fluorene	10.44	166	59700	7.638	ng	96
70) Phenanthrene	11.40	178	280975	28.339	ng	98
71) Anthracene	11.46	178	96161	9.560	ng	99
74) Fluoranthene	12.60	202	390282	37.142	ng	96
77) Pyrene	12.83	202	375513	34.439	ng	98
80) Benzo(a)anthracene	14.02	228	215881	23.437	ng	94
82) Chrysene	14.05	228	186310	20.887	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	72711	10.078	ng	# 90
87) Benzo(b)fluoranthene	15.07	252	183316m	26.164	ng	
88) Benzo(k)fluoranthene	15.09	252	71318m	10.773	ng	
89) Benzo(a)pyrene	15.43	252	137701	22.169	ng	98
90) Dibenzo(a,h)anthracene	16.97	278	20015	3.940	ng	95
91) Benzo(g,h,i)perylene	17.42	276	70217	14.121	ng	# 91

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

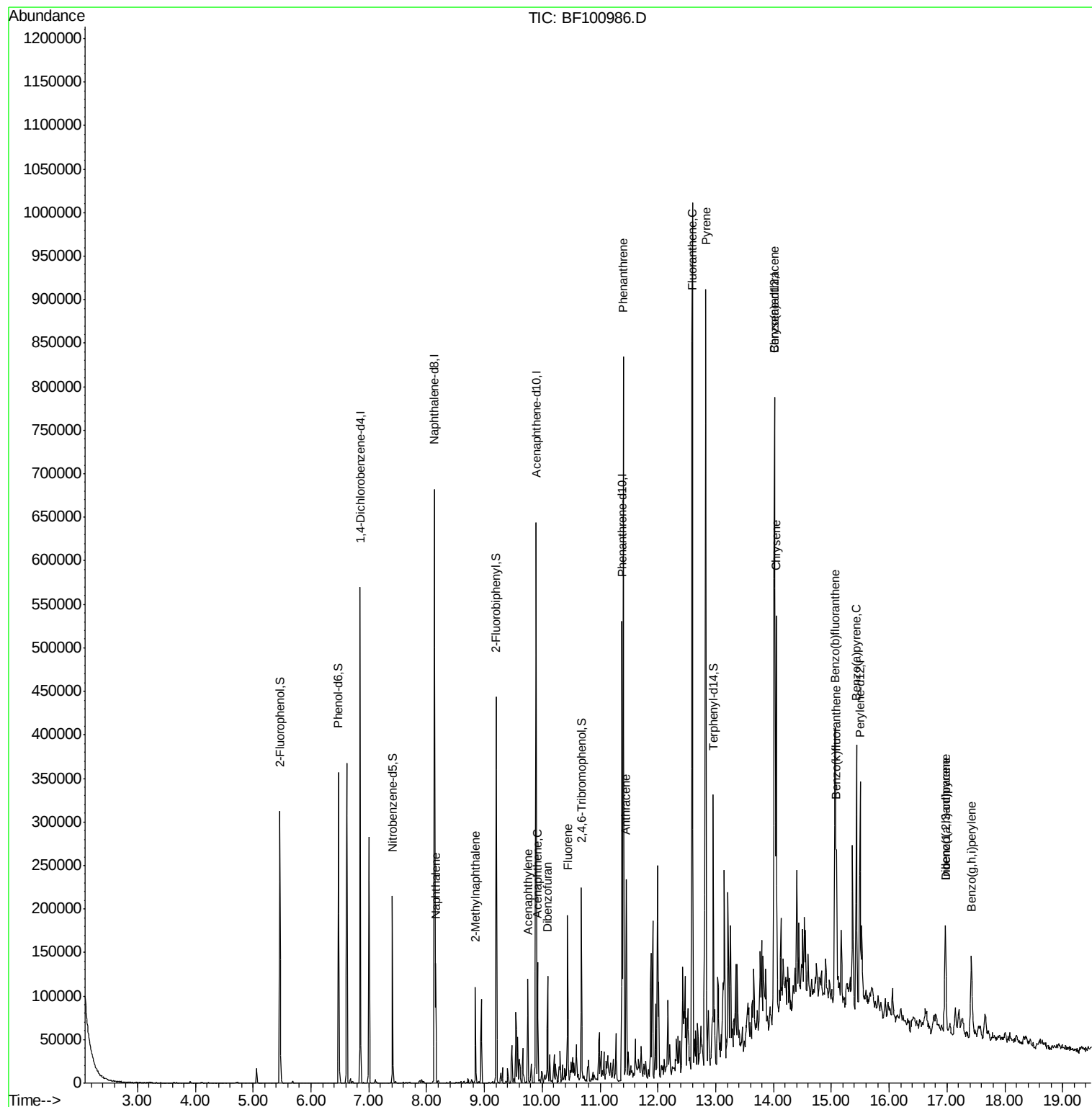
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
Data File : BF100986.D
Acq On : 29 Nov 2017 18:58
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ALS Vial : 15 Sample Multiplier: 1

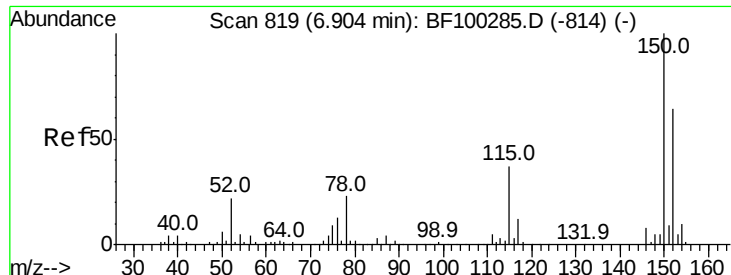
Instrument :
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ClientSampleId :
CL-02-112817-A

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#1

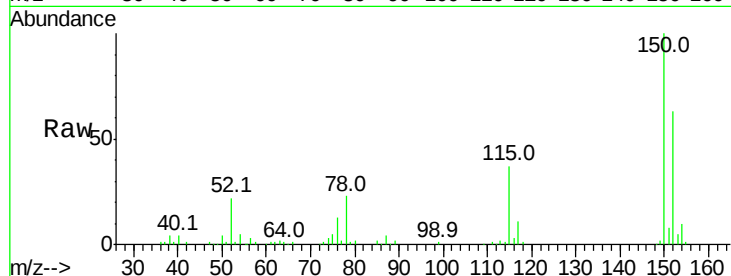
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.0	124.6	186.8
115	59.1	50.1	75.1

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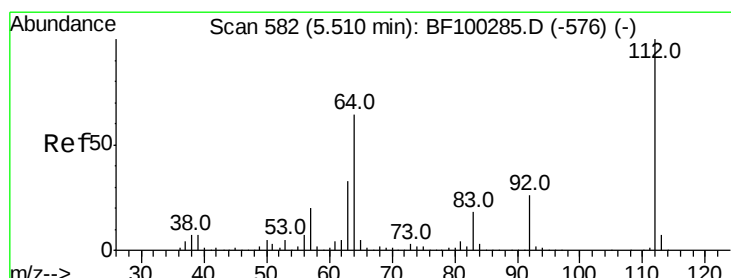
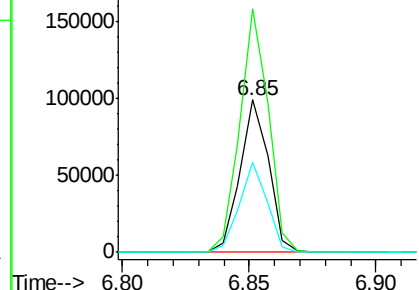
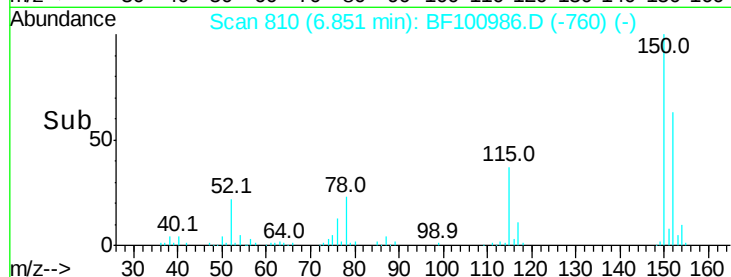


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

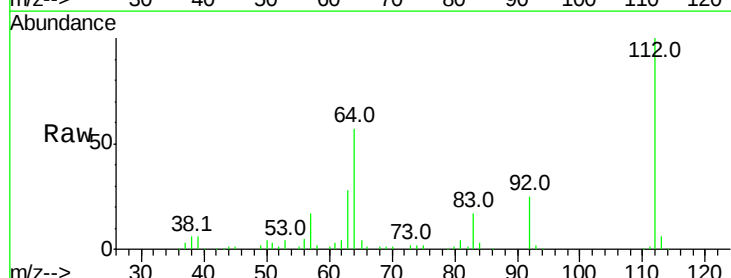
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 17.302 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	47.9	71.9
63	28.4	23.7	35.5

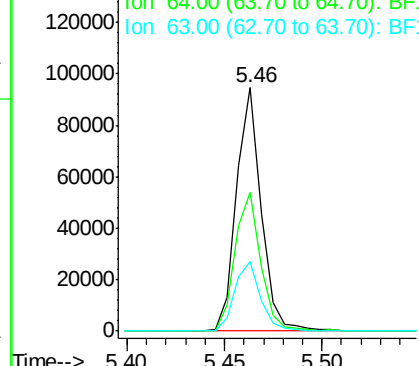
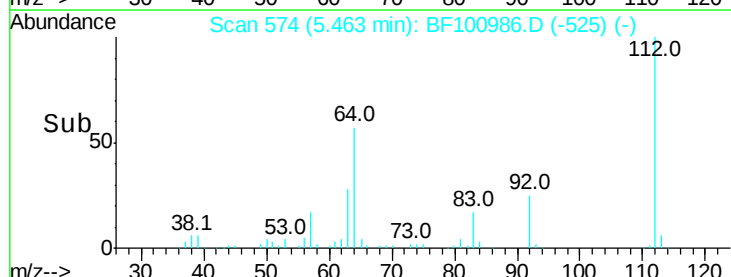


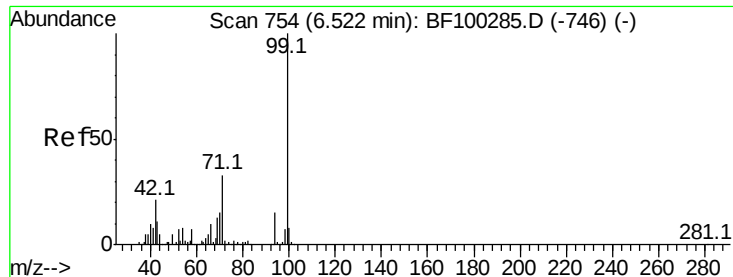
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 17.253 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

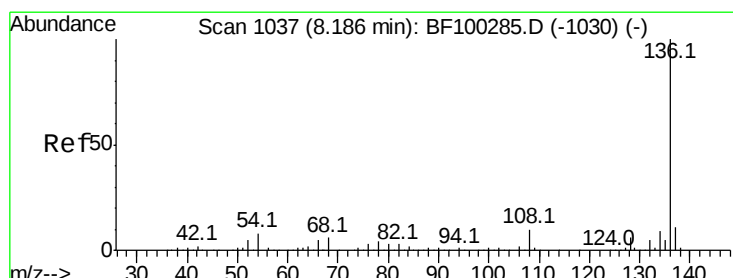
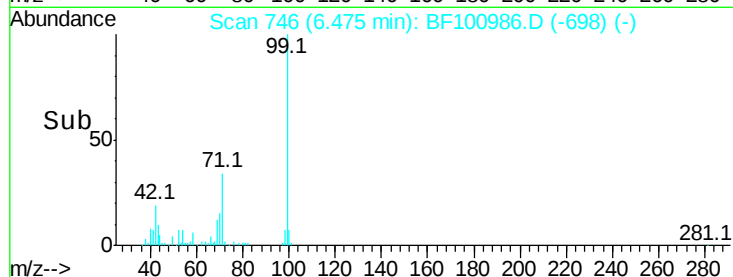
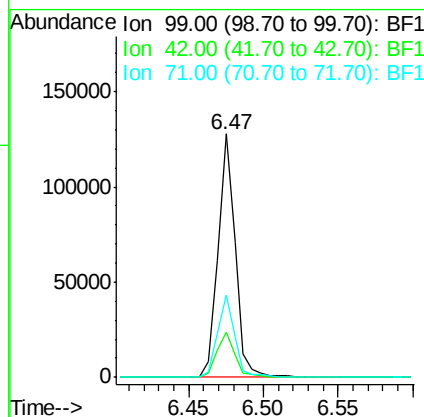
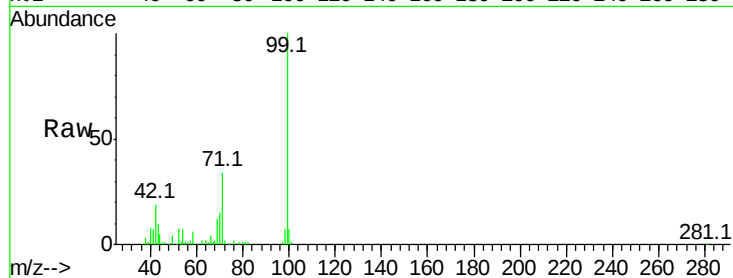
ClientSampleId :

CL-02-112817-A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		102983		
42	18.8	14.5	21.7		
71	34.0	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

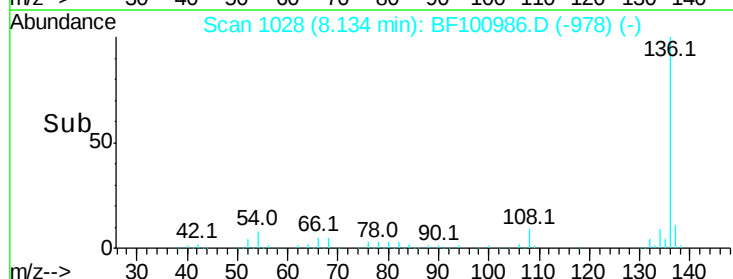
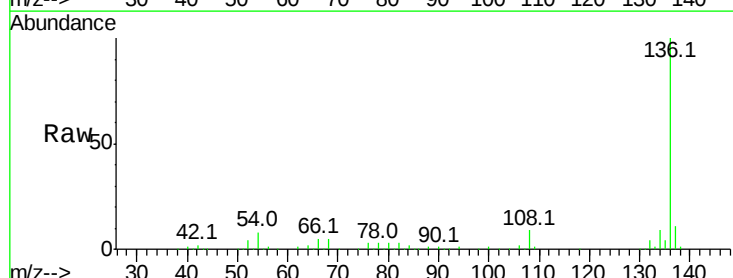
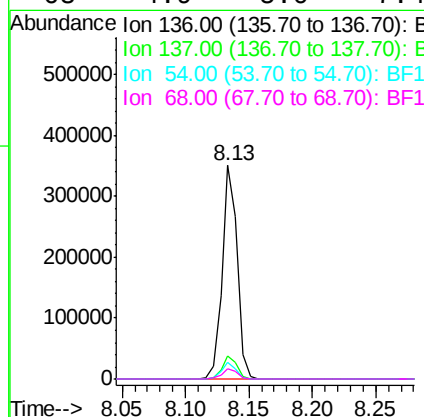
RT: 8.13 min Scan# 1028

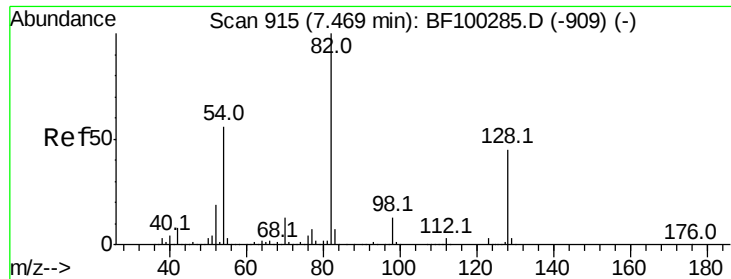
Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		292738		
137	10.7	8.9	13.3		
54	7.8	6.6	9.8		
68	4.9	5.0	7.4		





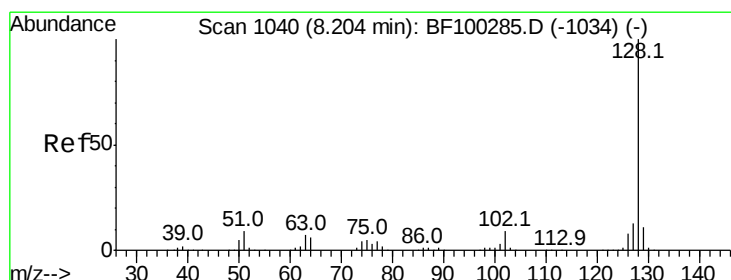
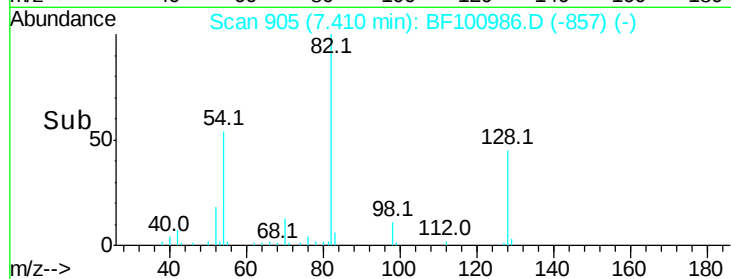
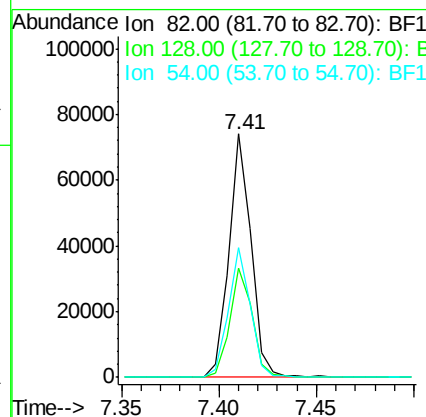
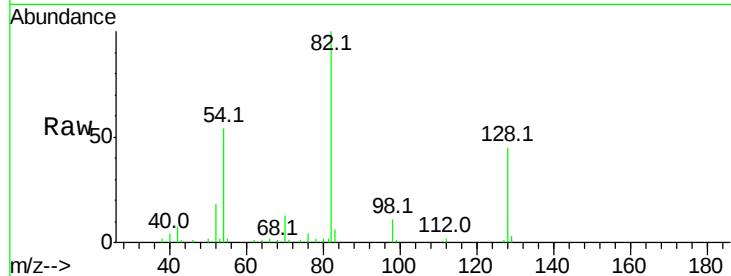
#23
Nitrobenzene-d5
Concen: 13.197 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.02 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.1	54.1
54	53.5	41.4	62.2

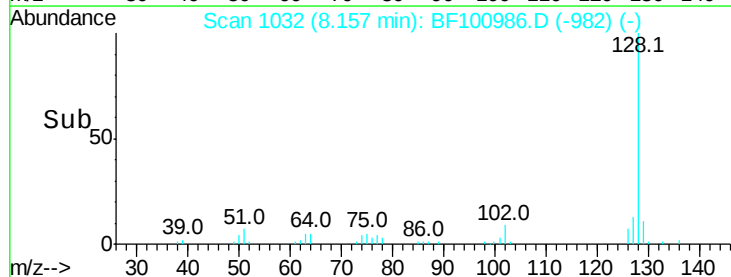
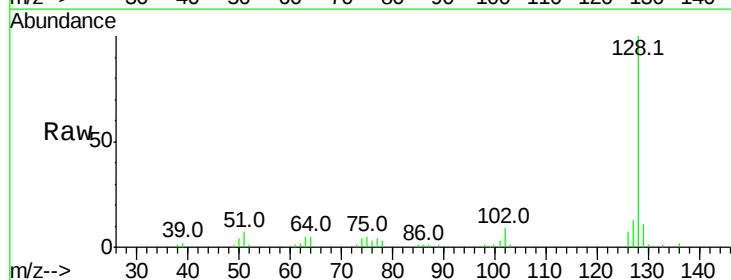
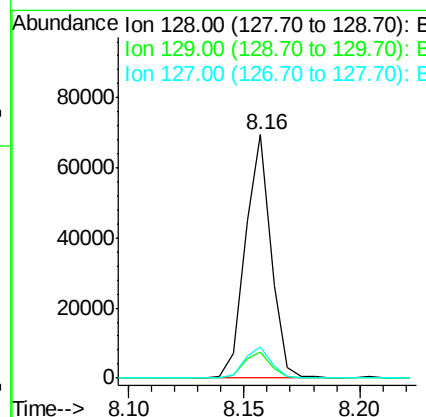
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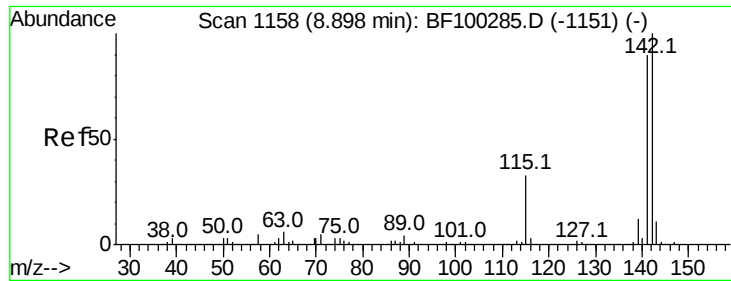
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#31
Naphthalene
Concen: 3.819 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.7	10.9	16.3





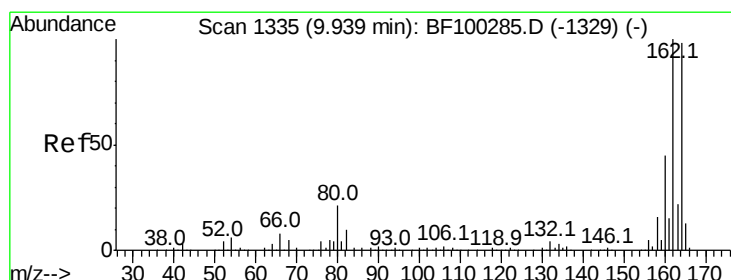
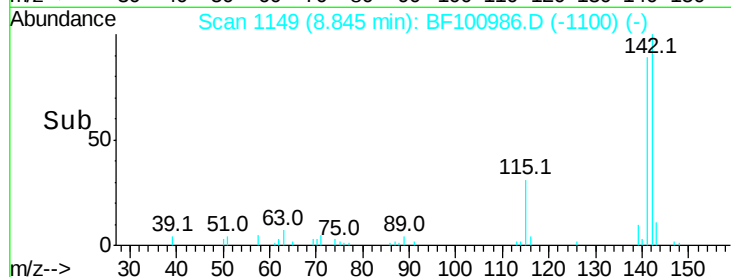
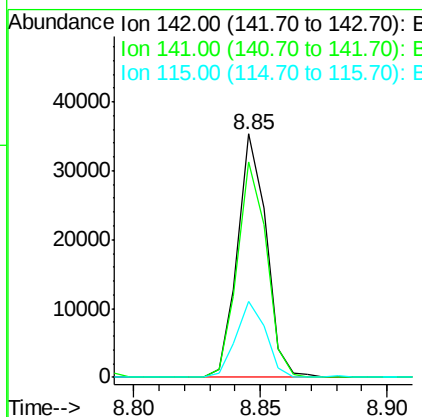
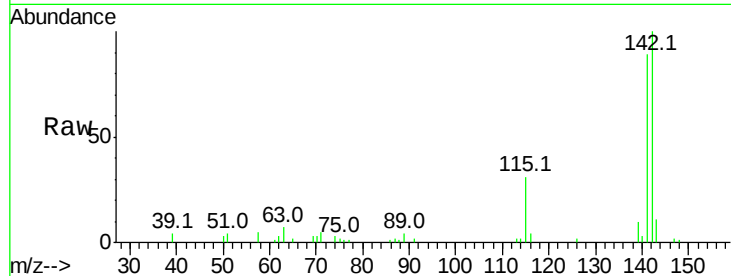
#37
2-Methylnaphthalene
Concen: 2.977 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	31.3	26.1	39.1

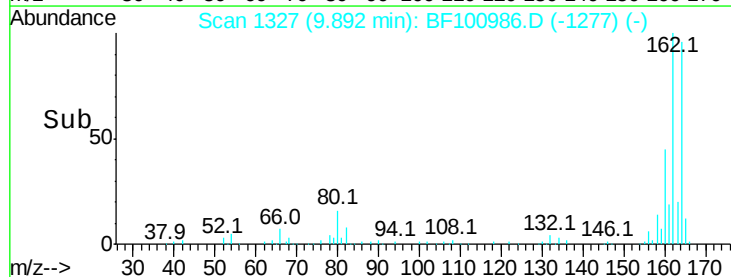
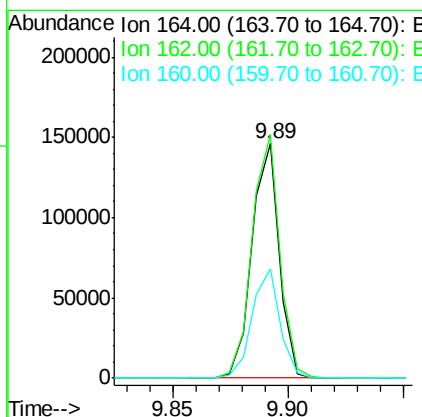
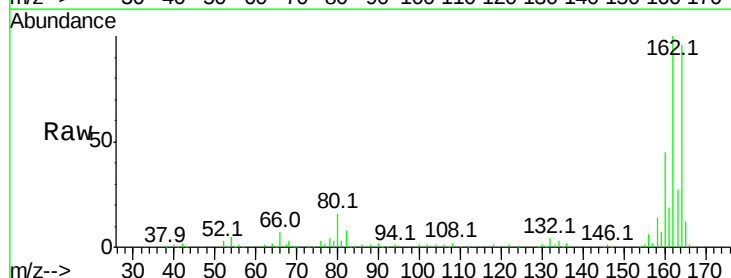
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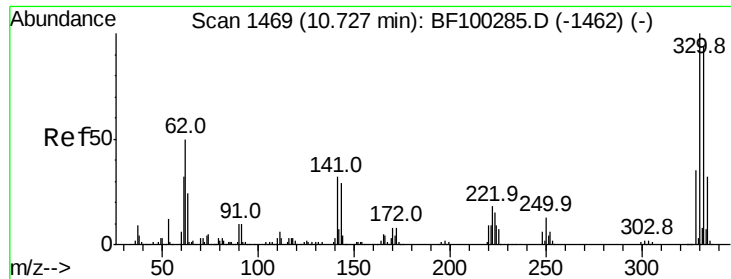
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	86.1	129.1
160	46.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 17.763 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

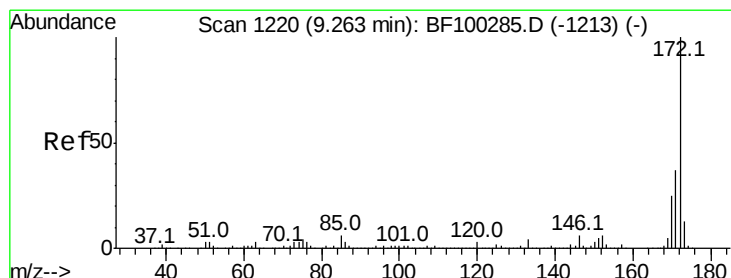
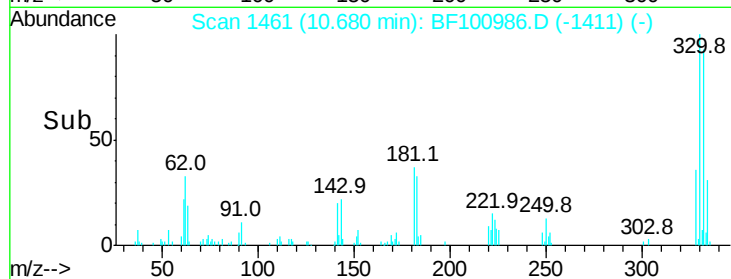
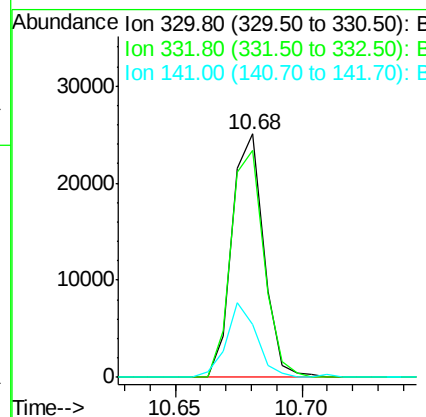
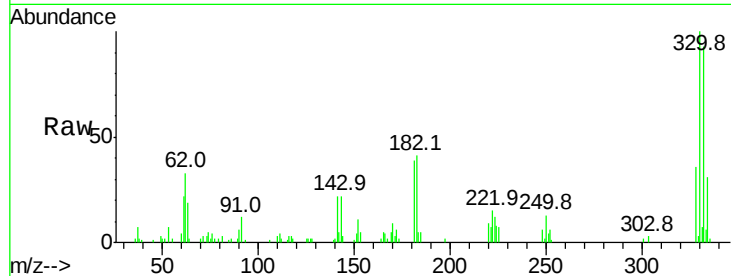
ClientSampleId :

CL-02-112817-A

Tot Ion:	330	Resp:	21788
Ion Ratio	Lower	Upper	
330	100		
332	97.1	77.0	115.6
141	29.4	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 16.580 ng

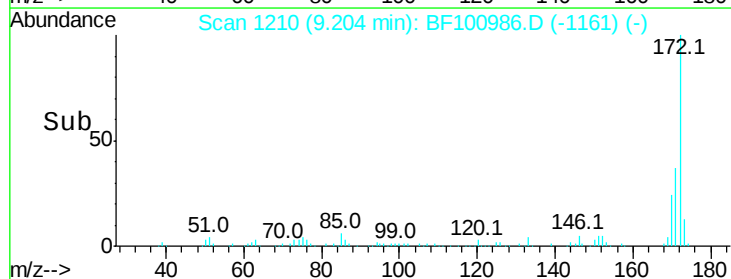
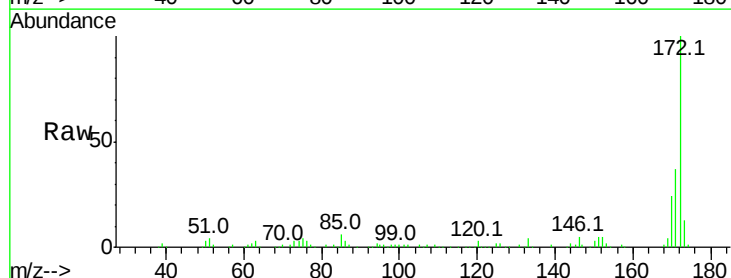
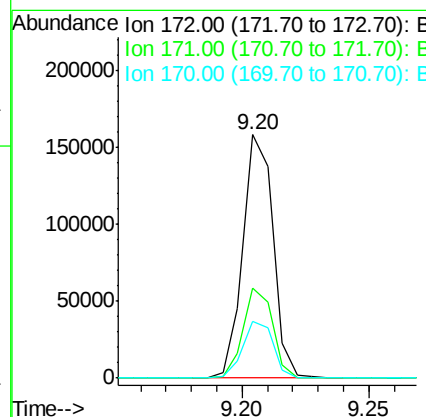
RT: 9.20 min Scan# 1210

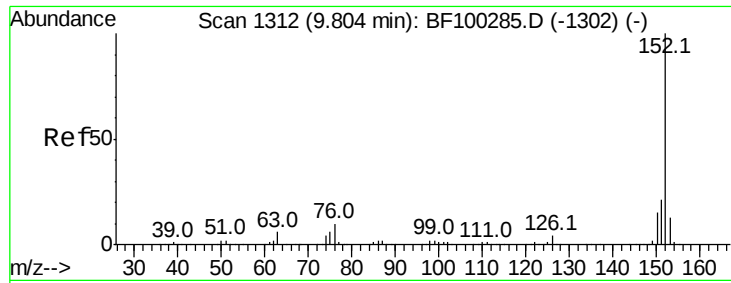
Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion:	172	Resp:	131067
Ion Ratio	Lower	Upper	
172	100		
171	36.8	29.7	44.5
170	23.5	19.6	29.4





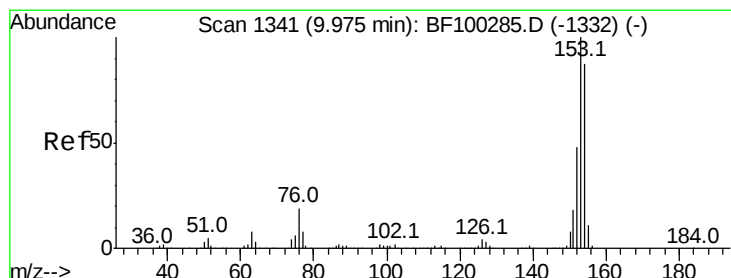
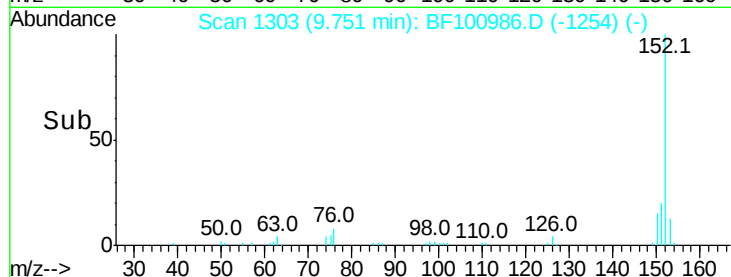
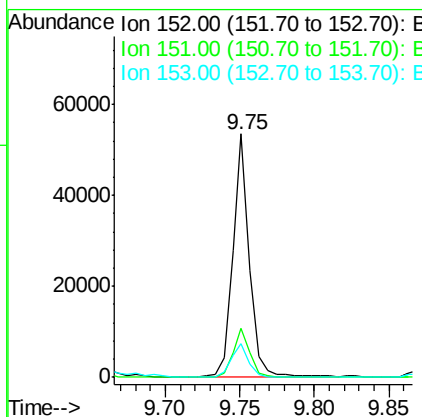
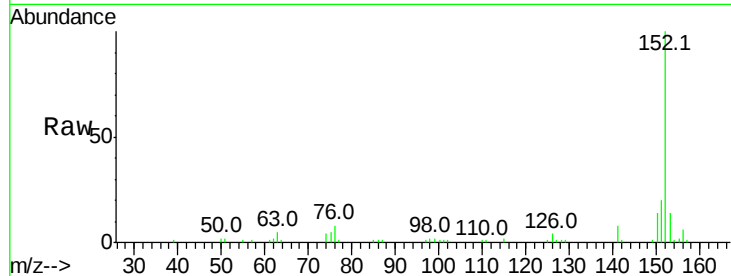
#48
Acenaphthylene
Concen: 3.369 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion:	152	Resp:	42168
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	14.0	10.7	16.1

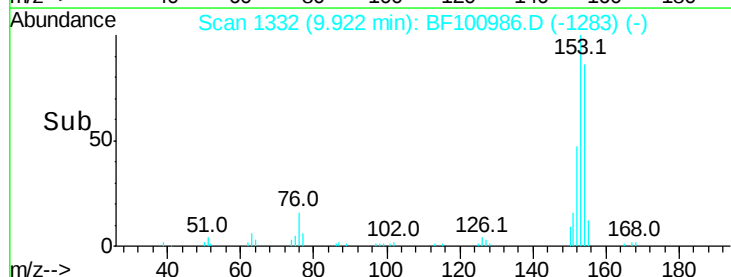
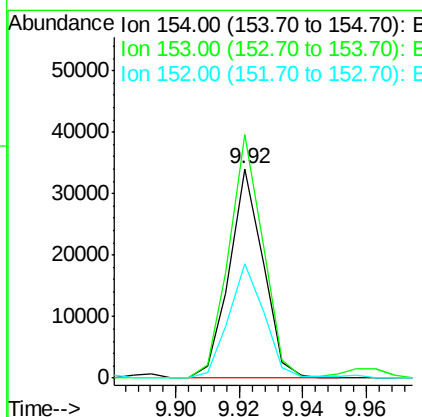
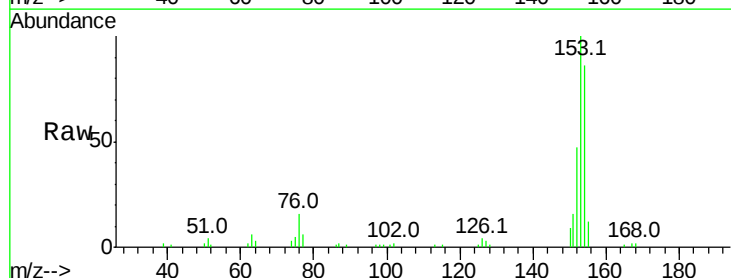
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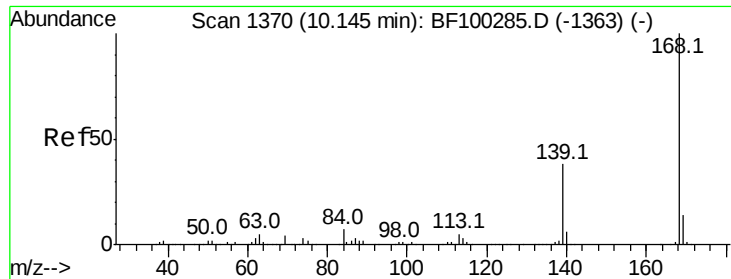
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#51
Acenaphthene
Concen: 3.297 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion:	154	Resp:	25094
Ion Ratio	Lower	Upper	
154	100		
153	116.3	91.2	136.8
152	54.8	43.8	65.8





#54

Dibenzenofuran

Concen: 3.353 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

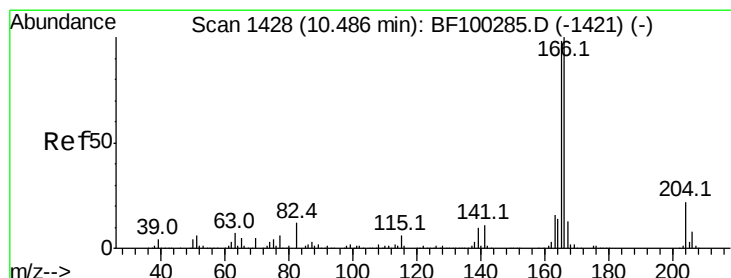
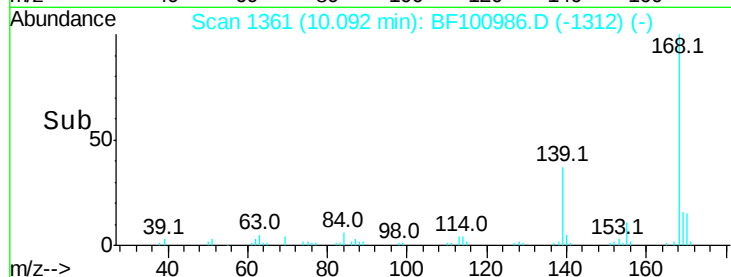
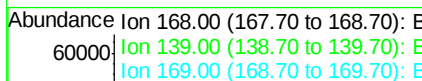
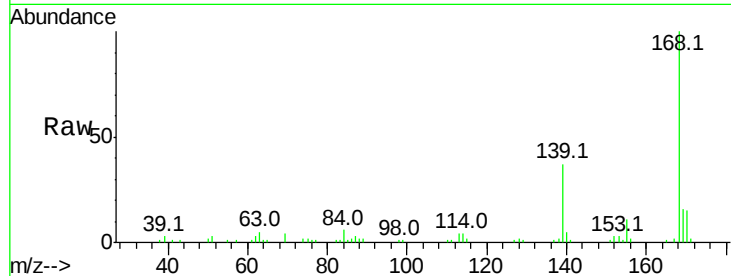
ClientSampleId :

CL-02-112817-A

Tot Ion:	168	Resp:	35773
Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.1	45.1
169	15.5	10.9	16.3

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#57

Fluorene

Concen: 7.638 ng

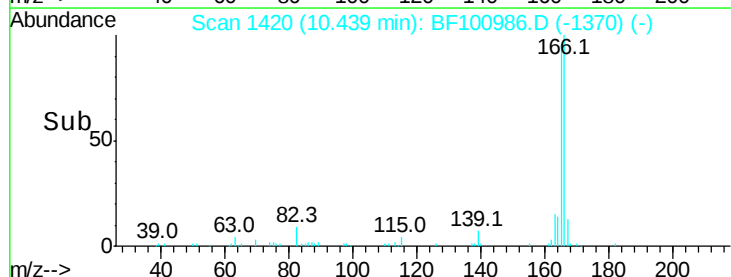
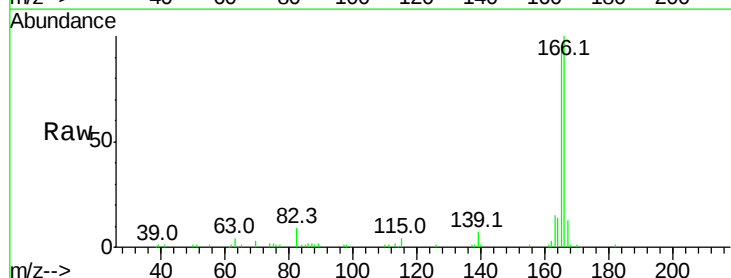
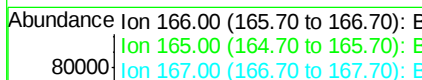
RT: 10.44 min Scan# 1420

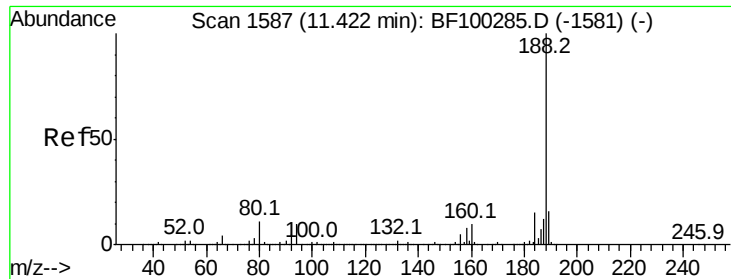
Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion:	166	Resp:	59700
Ion	Ratio	Lower	Upper
166	100		
165	95.9	79.8	119.8
167	12.7	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

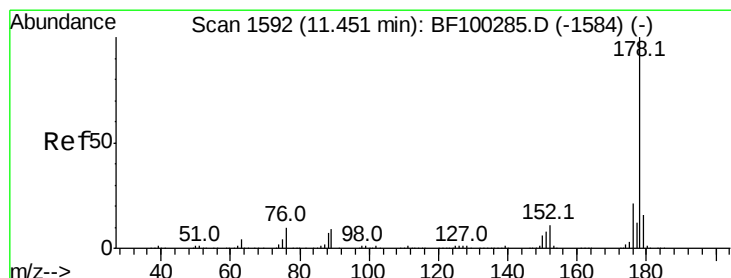
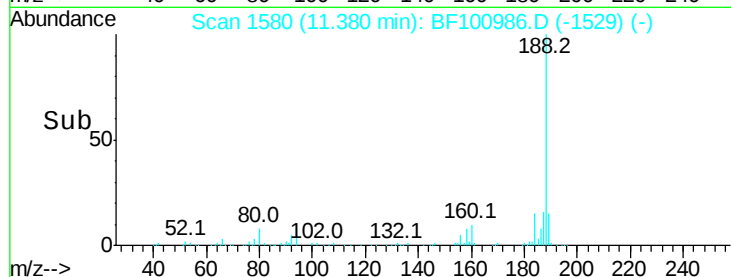
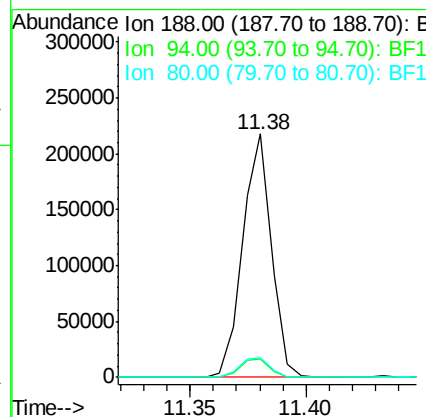
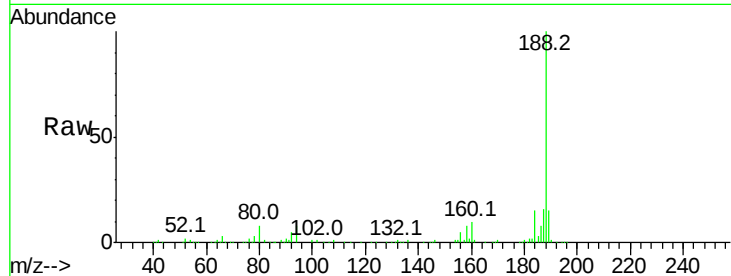
ClientSampleId :

CL-02-112817-A

Tot Ion:	188	Resp:	188311
Ion Ratio	Lower	Upper	
188	100		
94	7.6	8.5	12.7#
80	8.1	9.2	13.8#

Manual Integrations
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#70

Phenanthrene

Concen: 28.339 ng

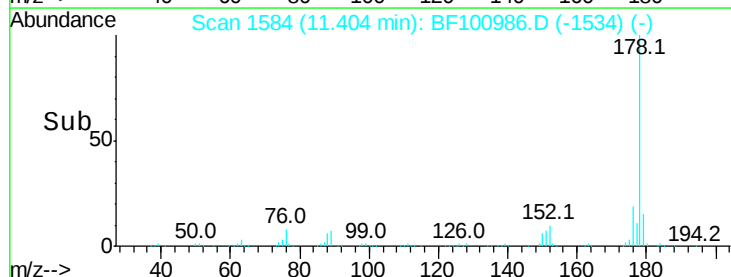
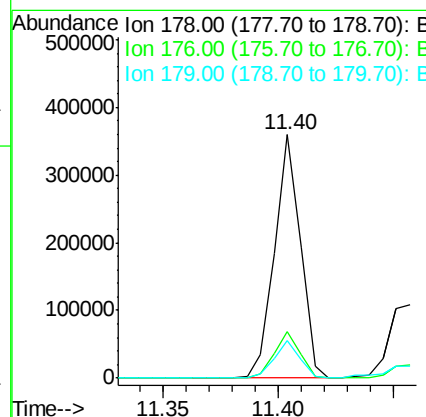
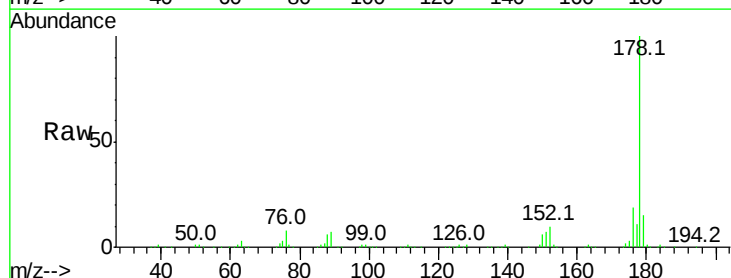
RT: 11.40 min Scan# 1584

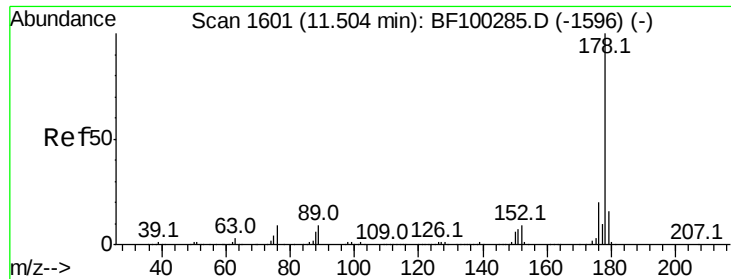
Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion:	178	Resp:	280975
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.8	23.8
179	15.4	13.0	19.6





#71

Anthracene

Concen: 9.560 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

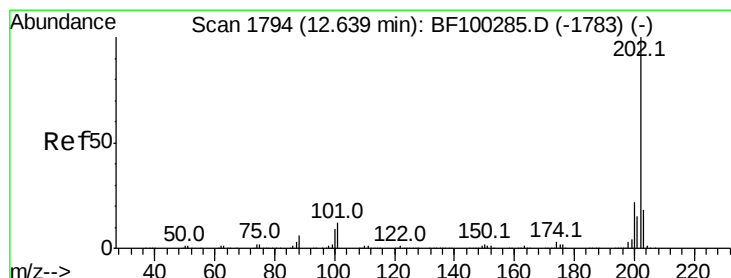
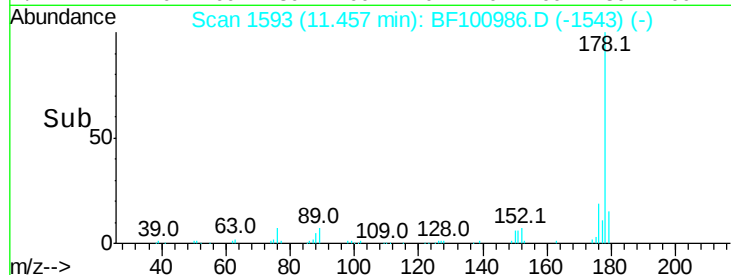
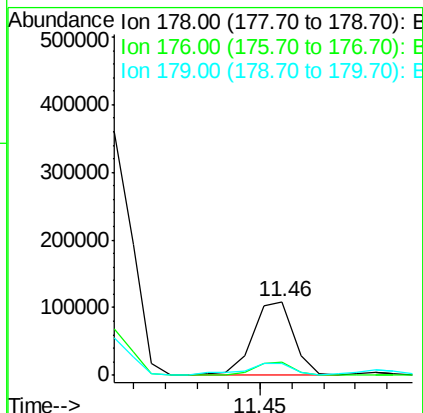
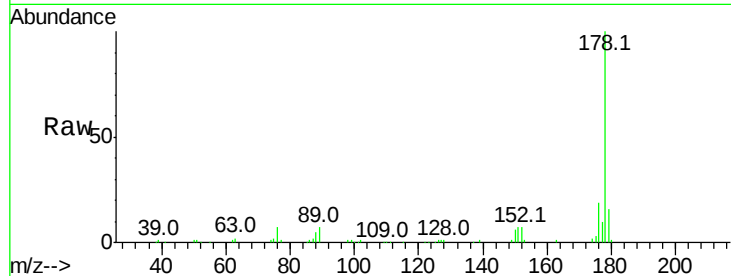
ClientSampleId :

CL-02-112817-A

Tot Ion:	178	Resp:	96161
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.4	23.2
179	15.5	12.6	19.0

Manual Integrations
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#74

Fluoranthene

Concen: 37.142 ng

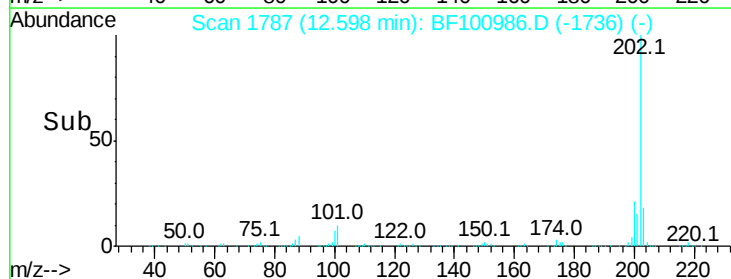
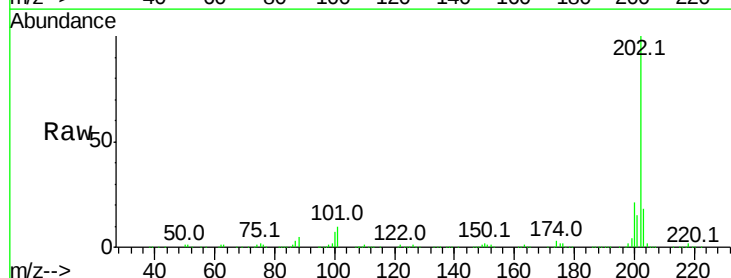
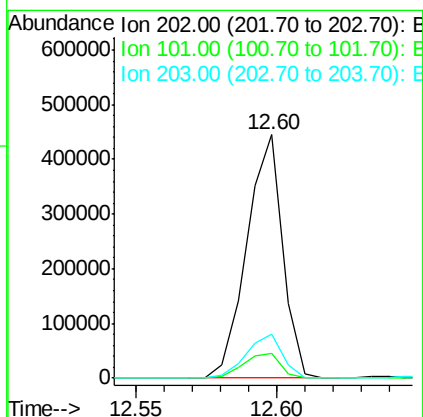
RT: 12.60 min Scan# 1787

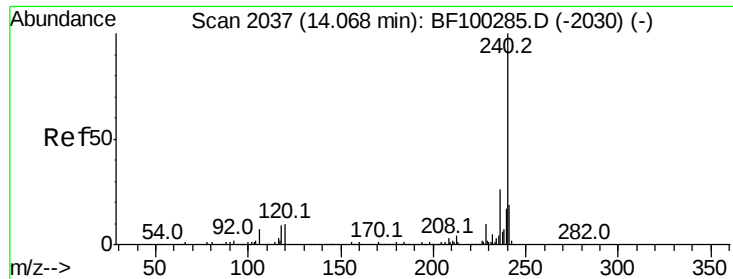
Delta R.T. 0.00 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion:	202	Resp:	390282
Ion Ratio	Lower	Upper	
202	100		
101	10.2	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

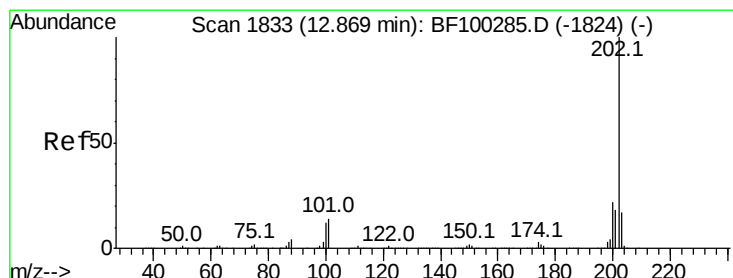
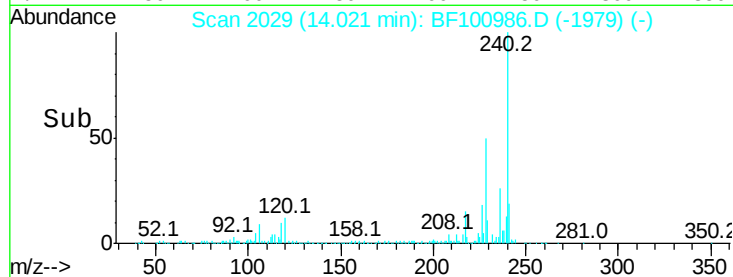
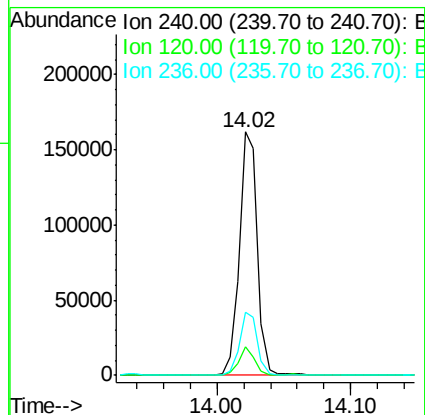
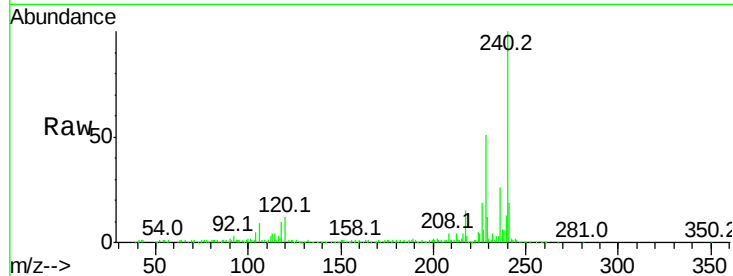
ClientSampleId :

CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.5	14.3
236	25.9	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 34.439 ng

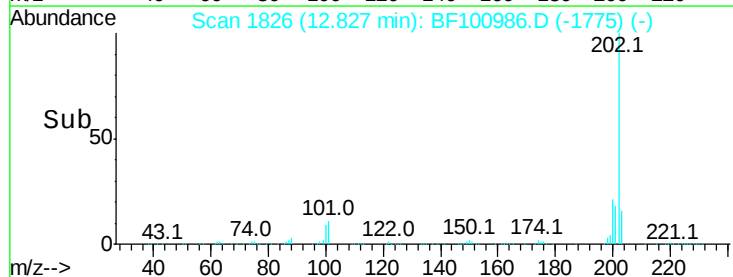
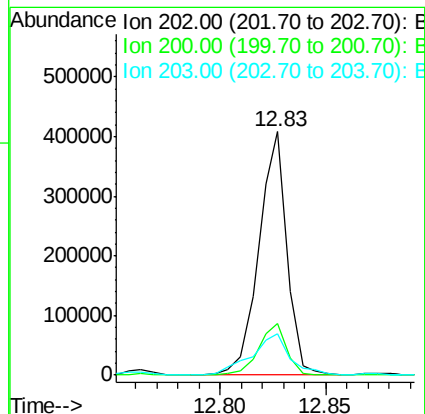
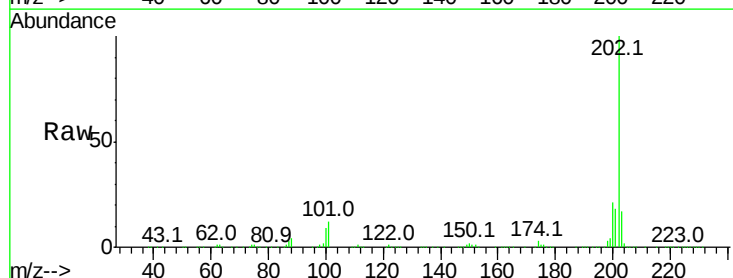
RT: 12.83 min Scan# 1826

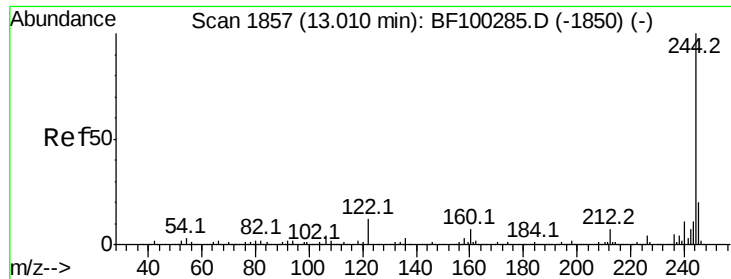
Delta R.T. 0.00 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.2	14.3	21.5





#78

Terphenyl-d14

Concen: 14.061 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

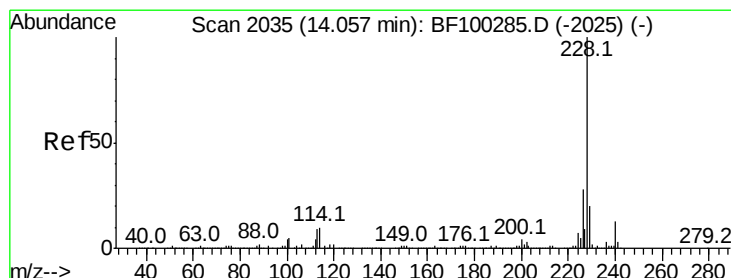
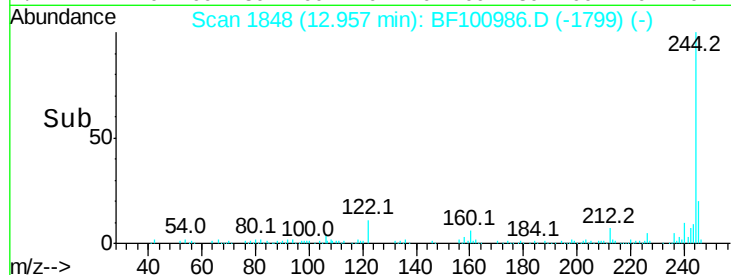
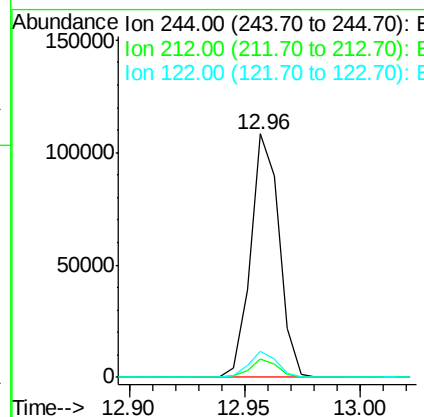
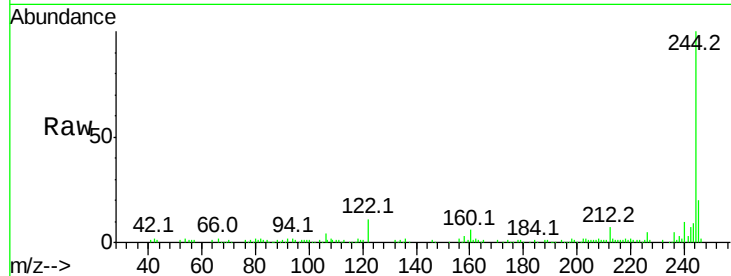
ClientSampleId :

CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.0
122	10.6	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 23.437 ng

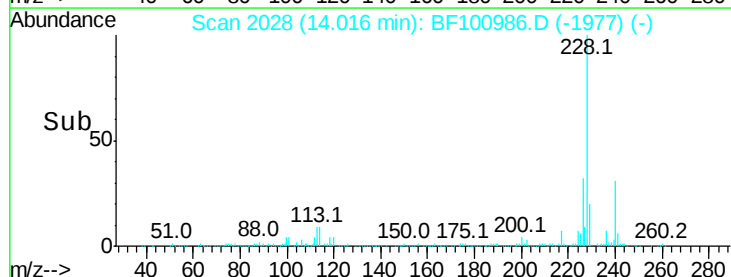
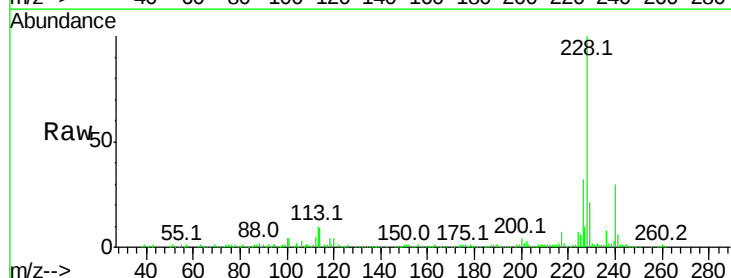
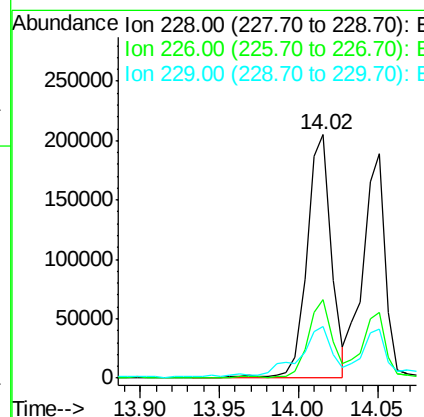
RT: 14.02 min Scan# 2028

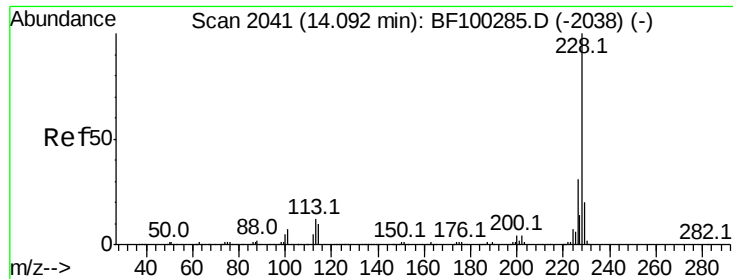
Delta R.T. 0.00 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	22.6	33.8
229	21.4	15.8	23.6





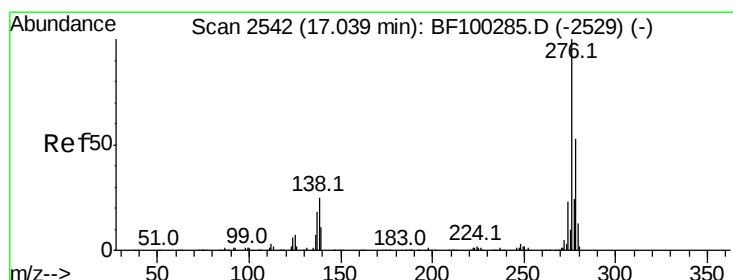
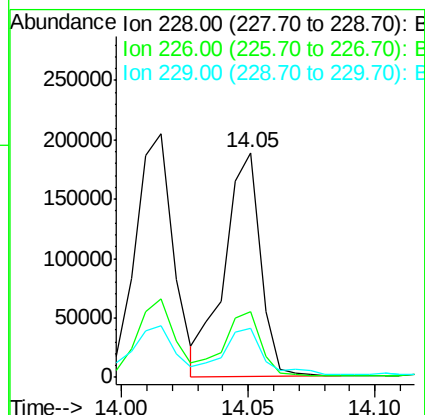
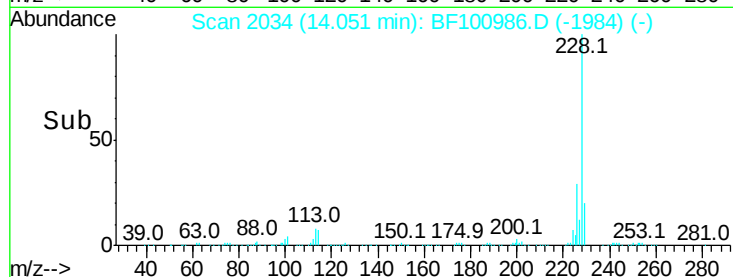
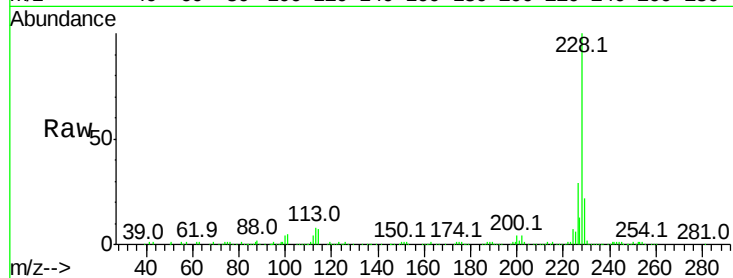
#82
Chrysene
Concen: 20.887 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	25.0	37.6
229	21.6	16.2	24.4

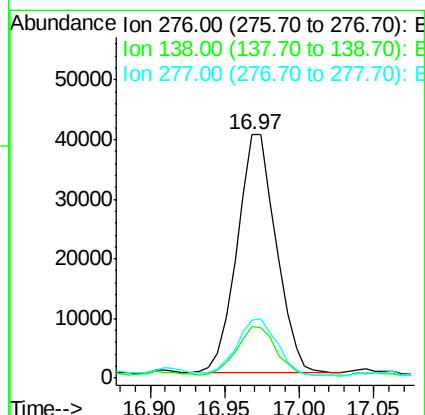
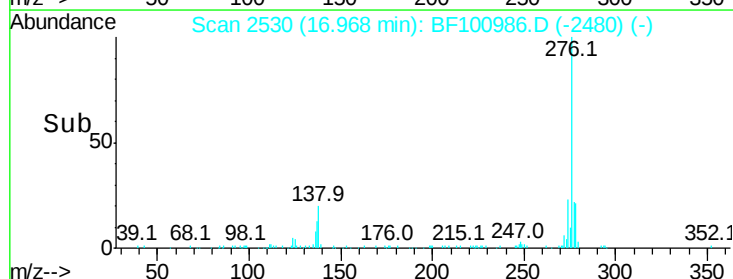
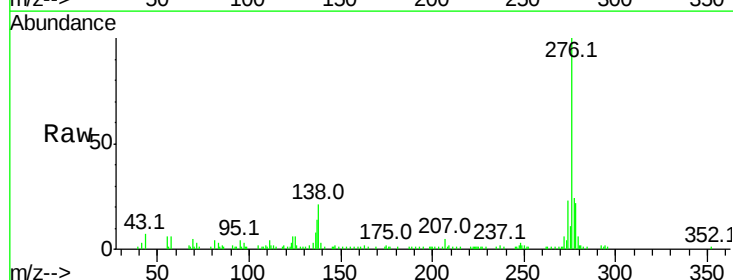
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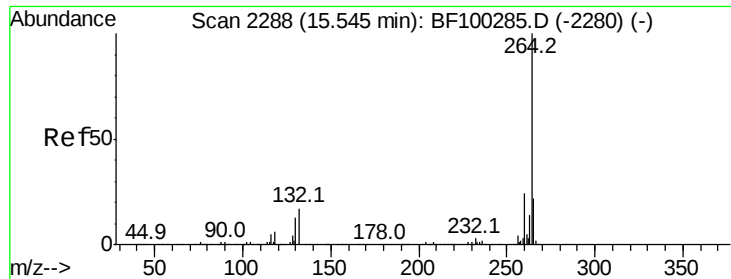
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 10.078 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	25.0	37.6#
277	25.1	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.01 min

Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Instrument :

BNA_F

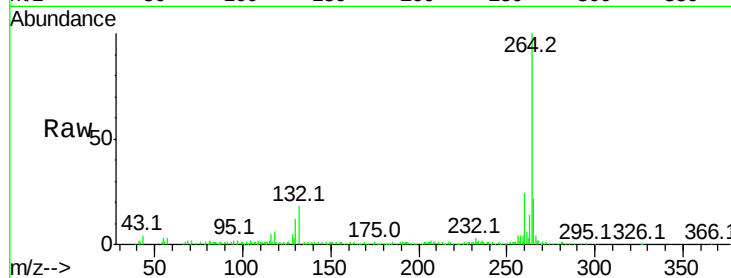
ClientSampleId :

CL-02-112817-A

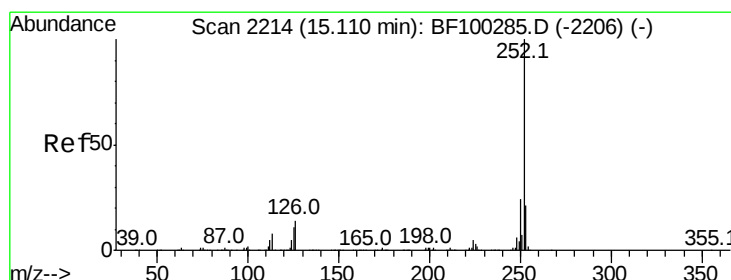
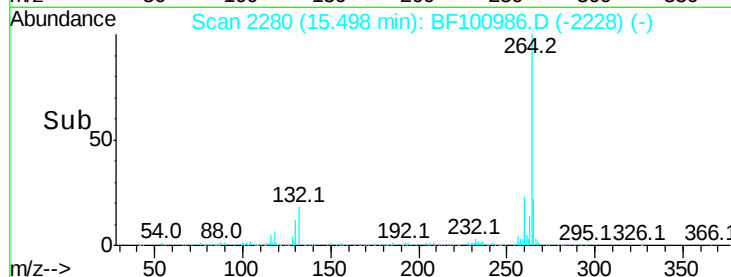
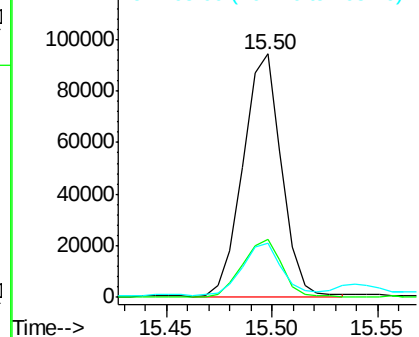
Tot Ion:	264	Resp:	118263
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.2	28.8
265	22.2	17.5	26.3

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



#87

Benzo(b)fluoranthene

Concen: 26.164 ng m

RT: 15.07 min Scan# 2207

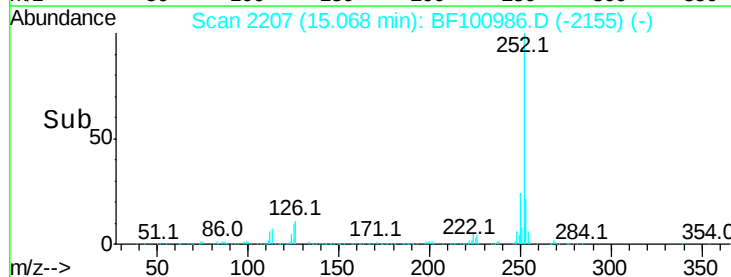
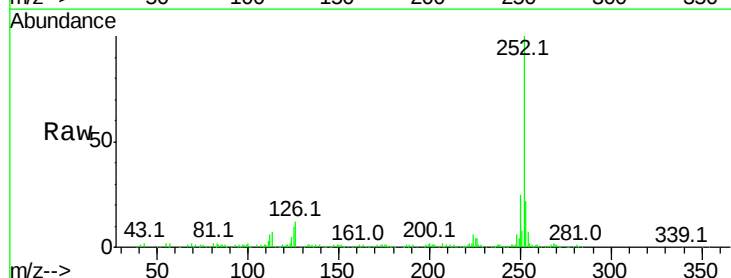
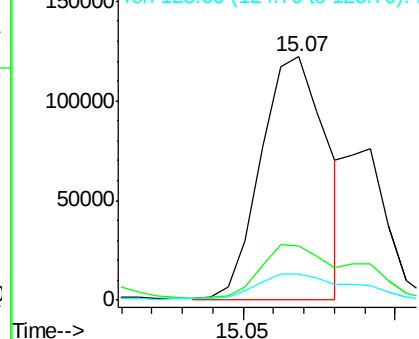
Delta R.T. 0.01 min

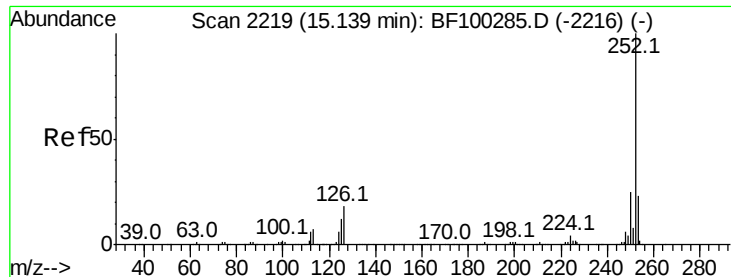
Lab File: BF100986.D

Acq: 29 Nov 2017 18:58

Tgt Ion:	252	Resp:	183316
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.0	25.6
125	10.4	9.0	13.6

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





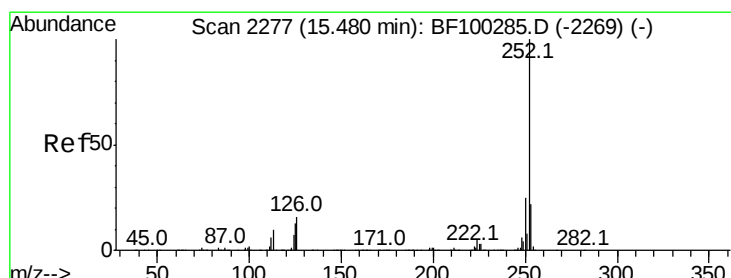
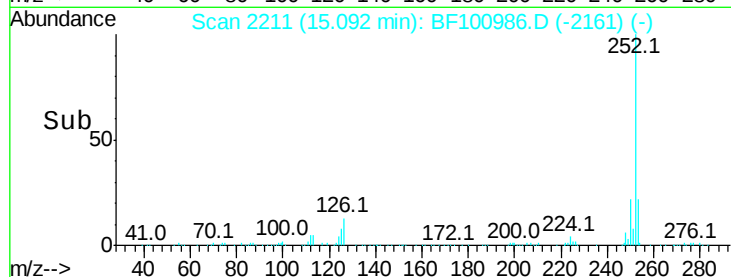
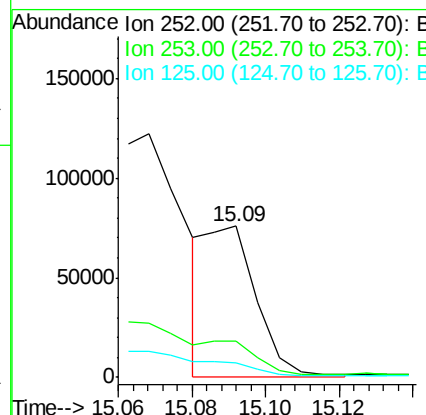
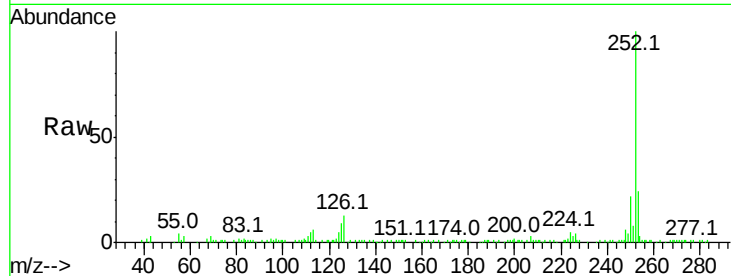
#88
Benzo(k)fluoranthene
Concen: 10.773 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	9.2	10.2	15.2

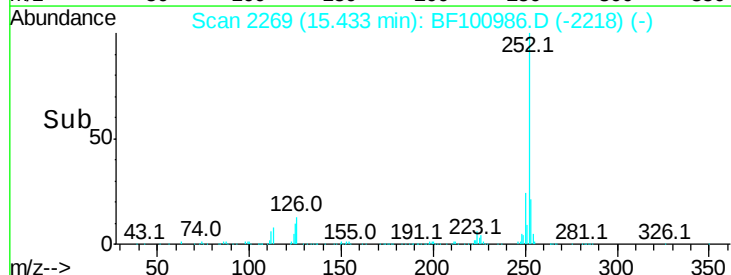
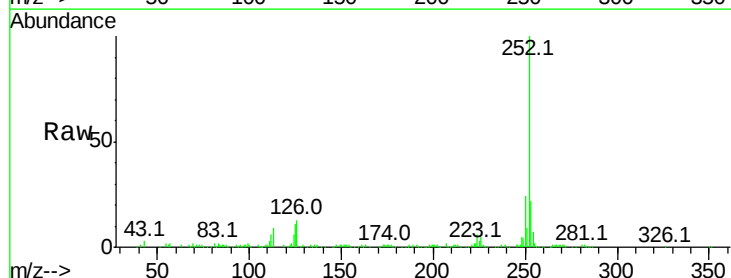
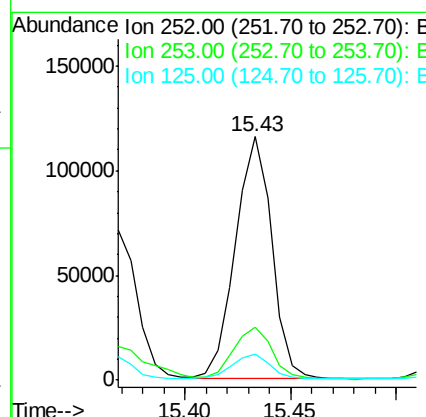
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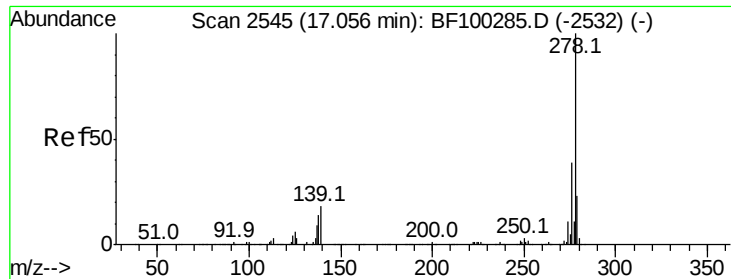
Sohil
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#89
Benzo(a)pyrene
Concen: 22.169 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	10.9	9.8	14.6





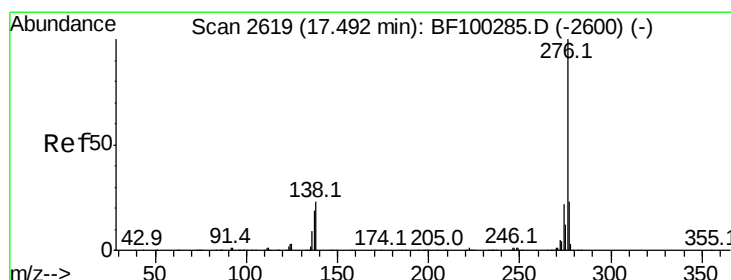
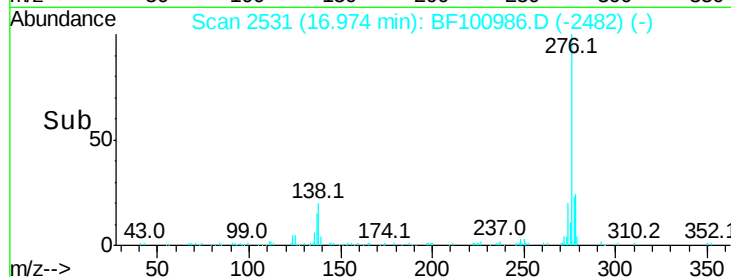
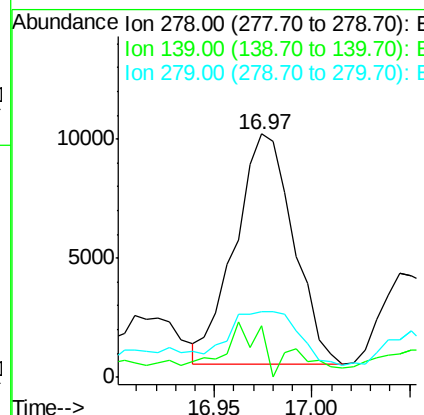
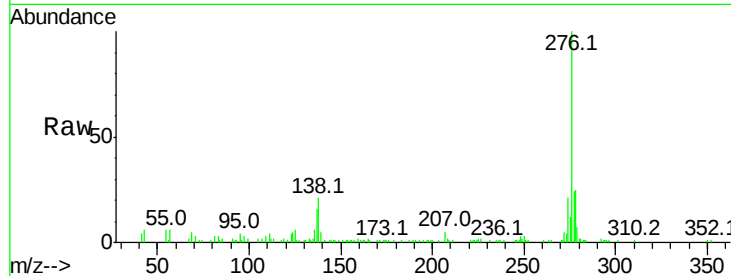
#90
Dibenzo(a,h)anthracene
Concen: 3.940 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.01 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Instrument :
BNA_F
ClientSampleId :
CL-02-112817-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.1	15.9	23.9
279	26.8	19.0	28.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 14.121 ng
RT: 17.42 min Scan# 2607
Delta R.T. 0.00 min
Lab File: BF100986.D
Acq: 29 Nov 2017 18:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	20.6	17.9	26.9
138	20.4	21.8	32.8#

