

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101050.D
 Acq On : 1 Dec 2017 7:43
 Operator : SJ/JU
 Sample : I6304-30DL 25X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

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

Manual Integrations
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Sohil
 12/1/2017 11:13:25 AM

Quant Time: Dec 01 10:32:15 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 09:47:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	56395	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	209624	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	84700	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	126942	20.00	ng	0.00
75) Chrysene-d12	14.03	240	119927	20.00	ng	0.00
86) Perylene-d12	15.50	264	91013	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	10876	3.19	ng	0.00
7) Phenol-d6	6.48	99	13840	3.34	ng	0.00
23) Nitrobenzene-d5	7.41	82	8035	2.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	2623	2.58	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	18321	2.96	ng	0.00
78) Terphenyl-d14	12.96	244	13320	2.43	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.16	128	101680	9.842	ng	98
37) 2-Methylnaphthalene	8.85	142	53638	7.641	ng	96
48) Acenaphthylene	9.75	152	22586	2.494	ng	# 95
51) Acenaphthene	9.92	154	45938	8.471	ng	100
54) Dibenzofuran	10.09	168	66945	8.566	ng	# 98
57) Fluorene	10.44	166	96433	15.179	ng	100
70) Phenanthrene	11.40	178	413184	59.105	ng	99
71) Anthracene	11.46	178	131964	18.652	ng	98
72) Carbazole	11.61	167	27745	4.292	ng	98
74) Fluoranthene	12.60	202	435242	56.167	ng	96
77) Pyrene	12.83	202	396956	47.969	ng	99
80) Benzo(a)anthracene	14.02	228	234316	30.945	ng	99
82) Chrysene	14.05	228	167588	23.831	ng	96
85) Indeno(1,2,3-cd)pyrene	16.97	276	52126	8.338	ng	# 90
87) Benzo(b)fluoranthene	15.07	252	166470m	30.537	ng	
88) Benzo(k)fluoranthene	15.09	252	52577m	9.789	ng	
89) Benzo(a)pyrene	15.43	252	117189	23.646	ng	95
90) Dibenzo(a,h)anthracene	16.98	278	14356m	3.286	ng	
91) Benzo(a,h,i)perylene	17.43	276	50365	12.232	ng	# 91

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

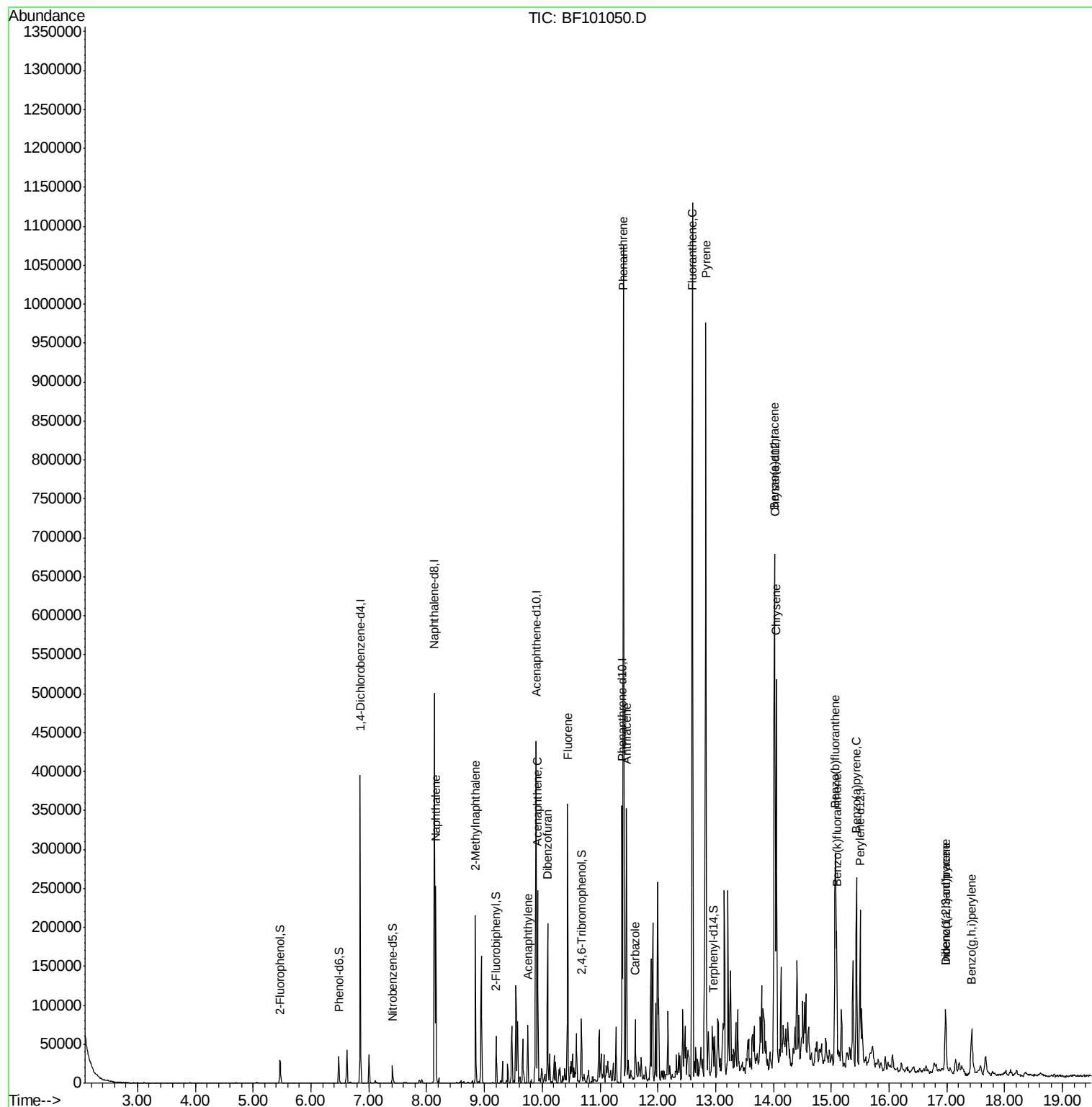
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
Data File : BF101050.D
Acq On : 1 Dec 2017 7:43
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Misc :
ALS Vial : 30 Sample Multiplier: 1

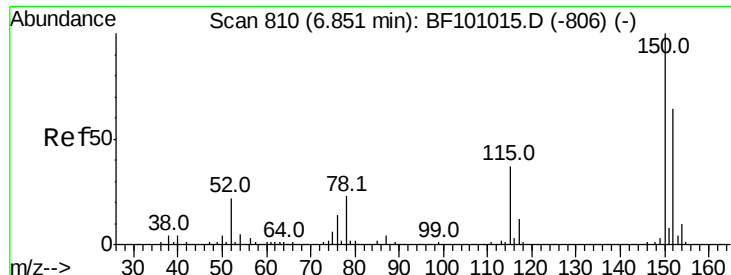
Instrument :
BNA_F
ClientSampleId :
CL-02-112817-EDL

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#1

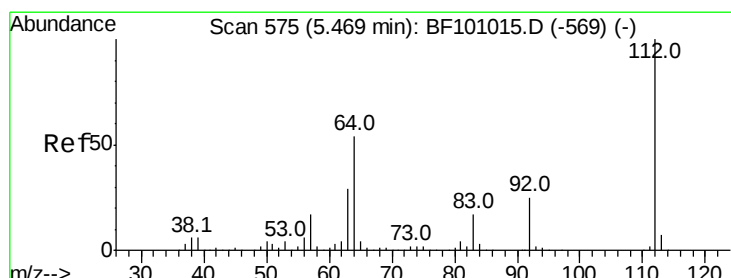
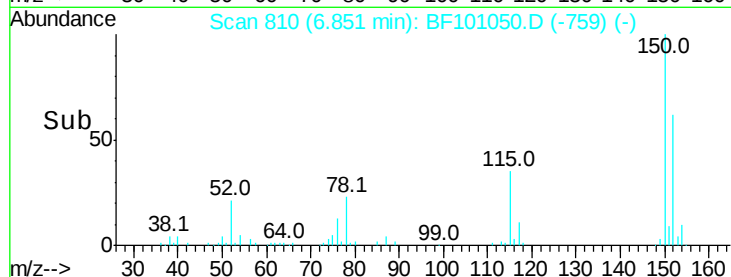
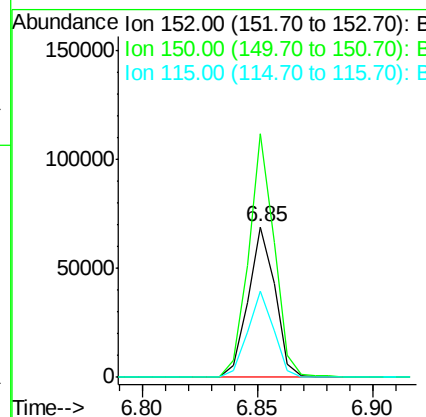
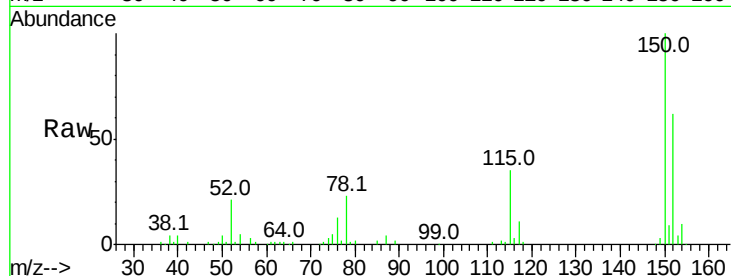
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.5	124.6	186.8
115	56.9	50.1	75.1

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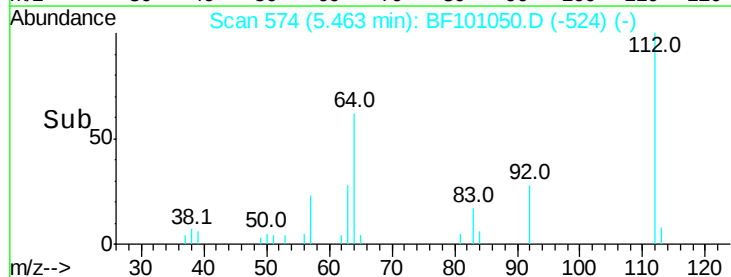
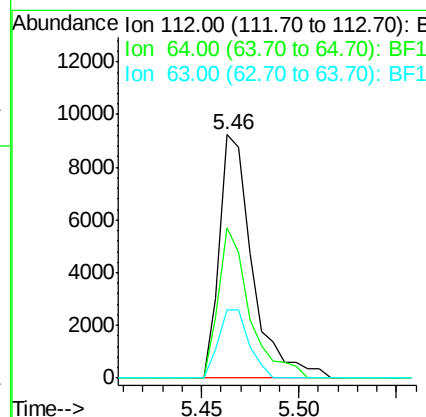
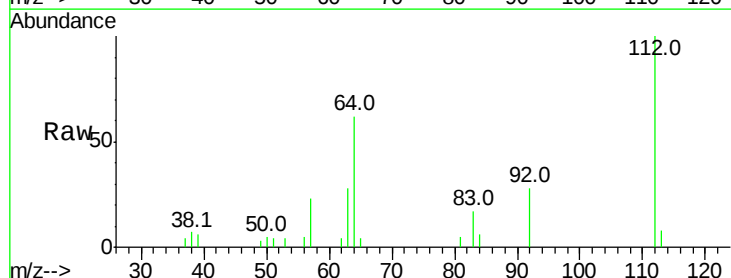
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#5

2-Fluorophenol
Concen: 3.187 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	47.9	71.9
63	28.0	23.7	35.5





#7

Phenol-d6

Concen: 3.340 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

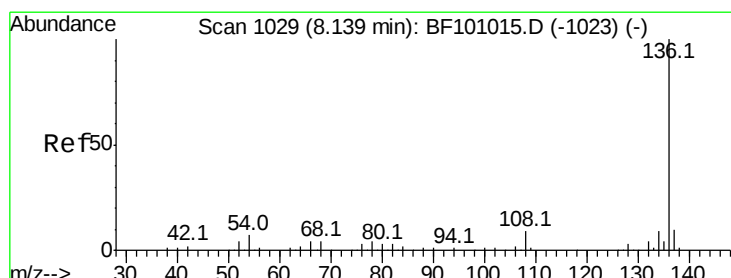
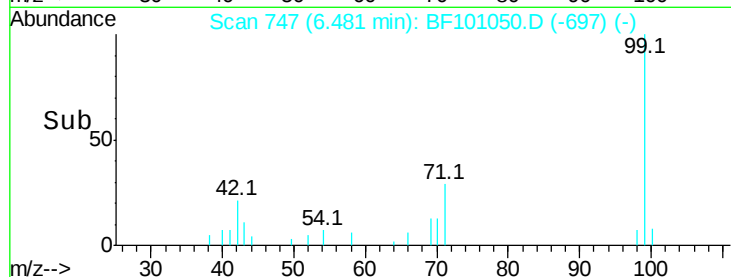
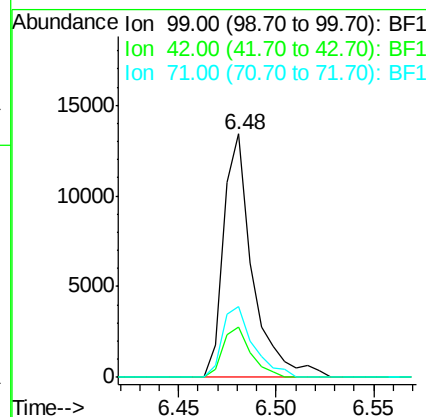
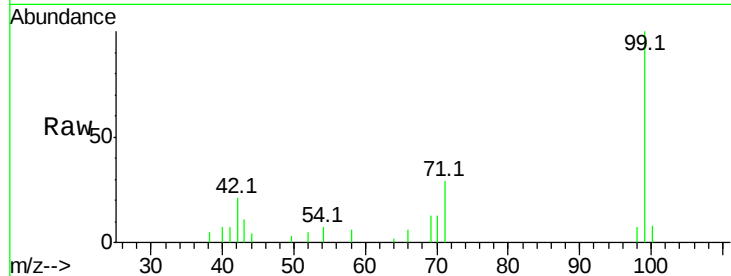
ClientSampleId :

CL-02-112817-EDL

Tot Ion:	99	Resp:	13840
Ion Ratio	Lower	Upper	
99	100		
42	20.6	14.5	21.7
71	28.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

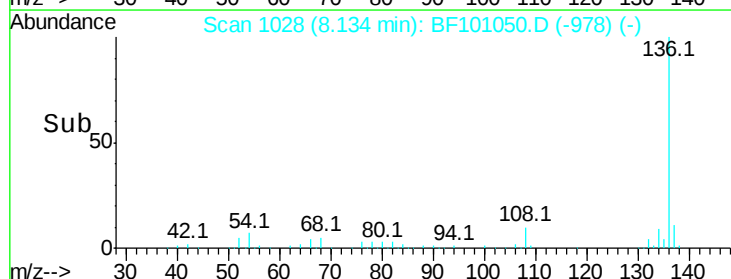
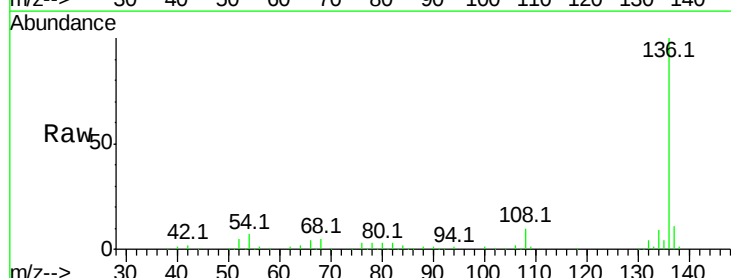
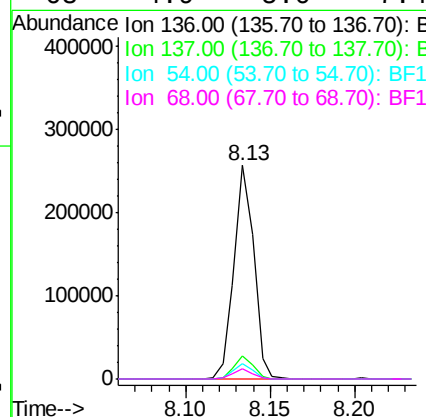
RT: 8.13 min Scan# 1028

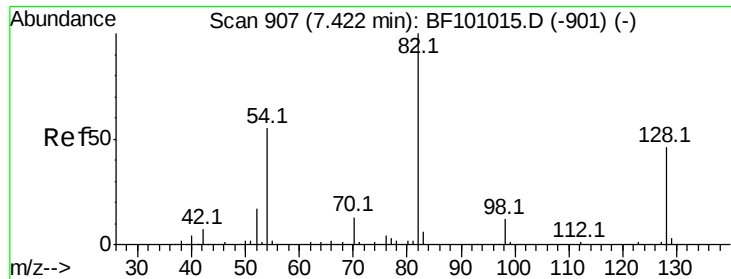
Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Tgt Ion:	136	Resp:	209624
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	7.3	6.6	9.8
68	4.9	5.0	7.4#





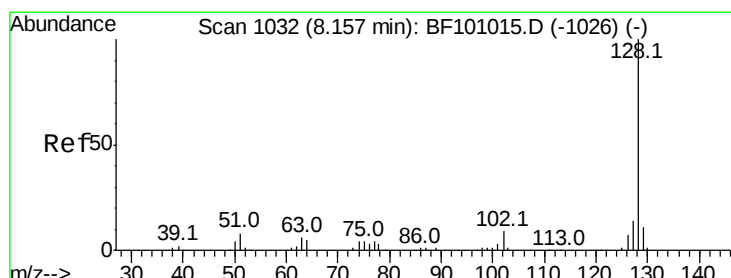
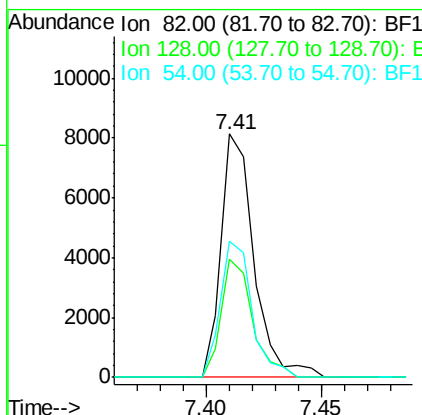
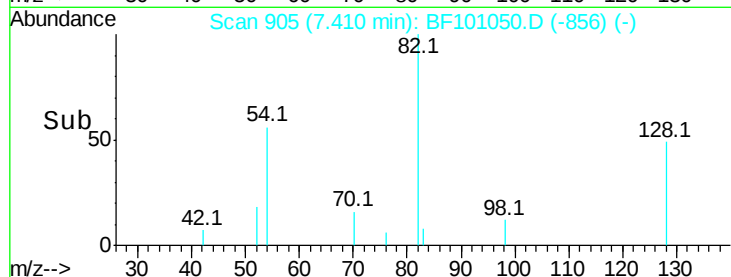
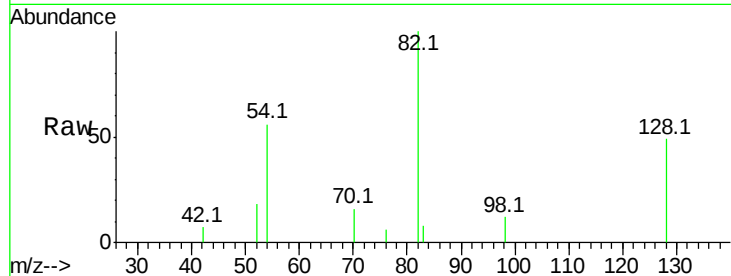
#23
Nitrobenzene-d5
Concen: 2.287 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.5	36.1	54.1
54	55.8	41.4	62.2

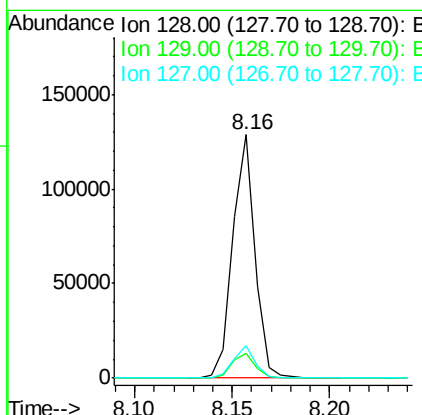
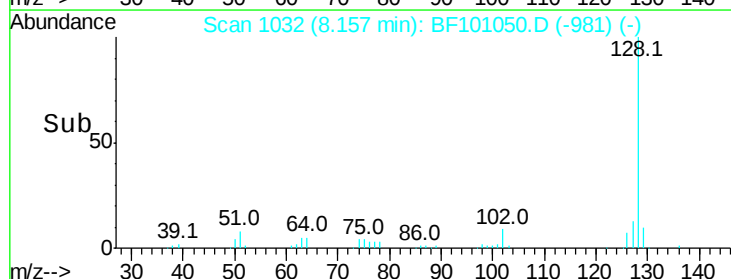
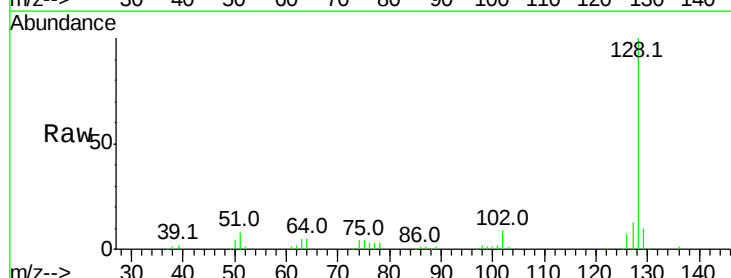
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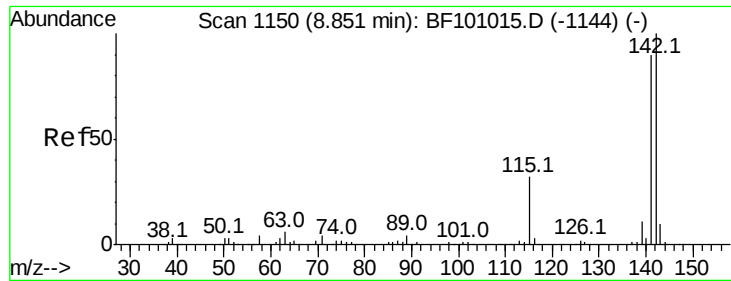
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#31
Naphthalene
Concen: 9.842 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.9	8.8	13.2
127	13.1	10.9	16.3





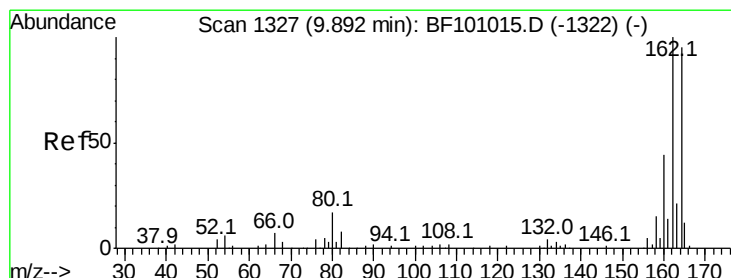
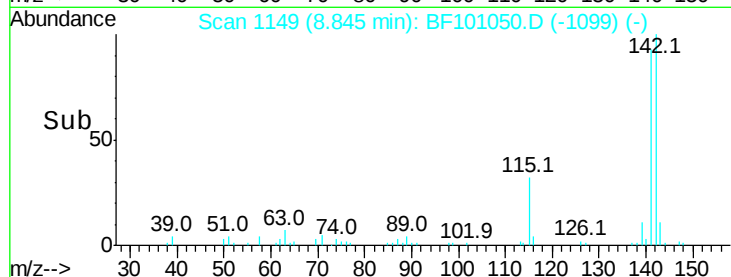
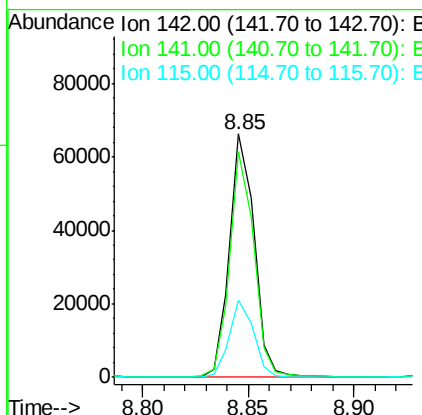
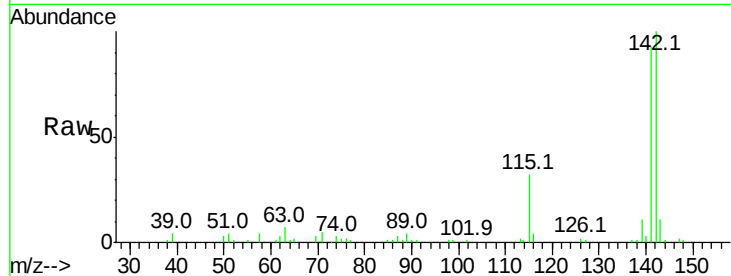
#37
2-Methylnaphthalene
Concen: 7.641 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.5	70.8	106.2
115	31.8	26.1	39.1

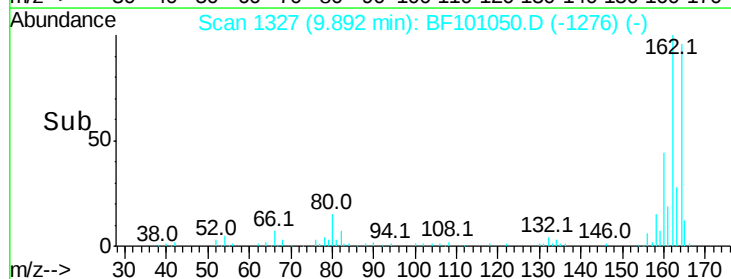
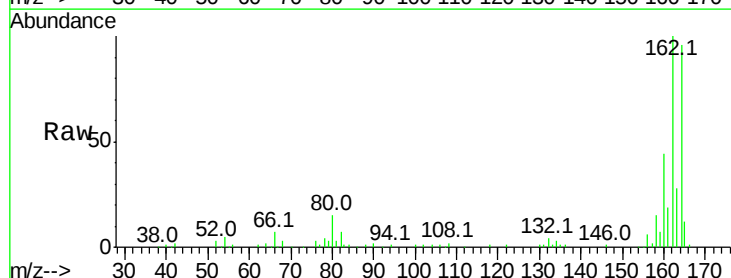
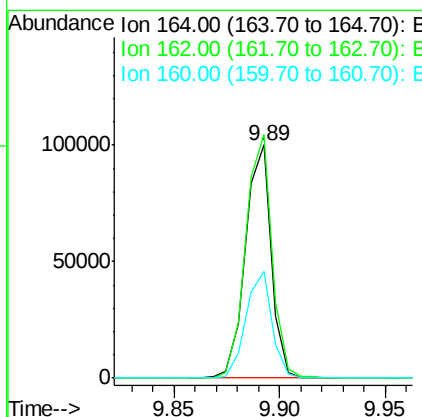
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	45.8	38.3	57.5





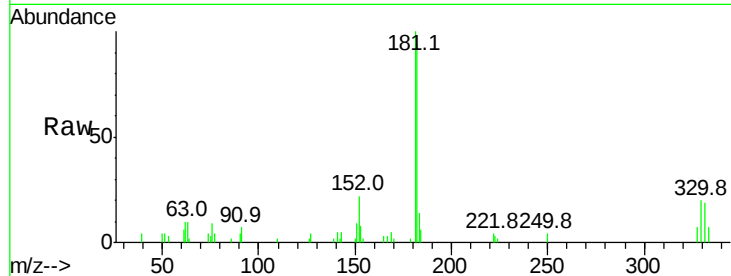
#41
 2,4,6-Tribromophenol
 Concen: 2.578 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101050.D
 Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Resp	Lower	Upper
330	100	2623		
332	90.9		77.0	115.6
141	24.6		29.9	44.9#

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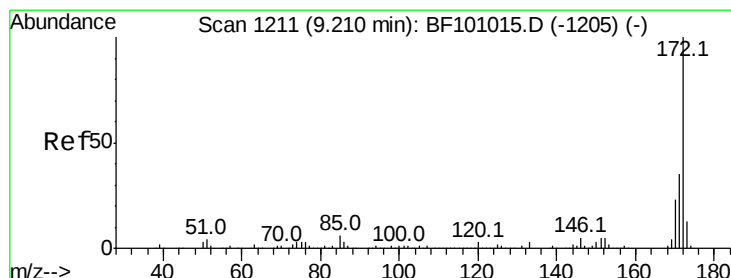
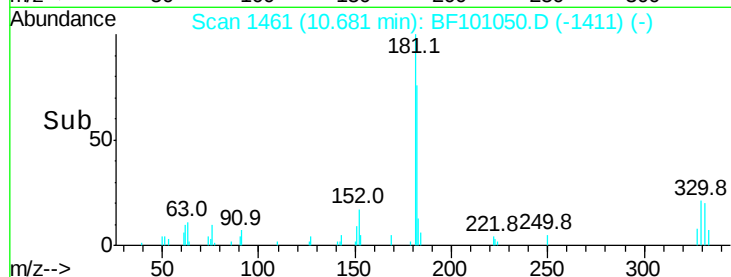
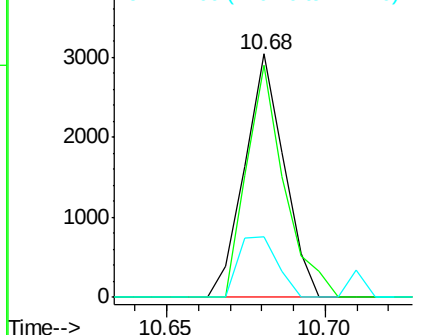


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 2.959 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101050.D
 Acq: 1 Dec 2017 7:43

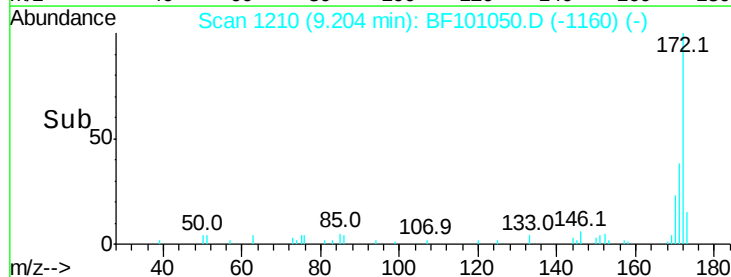
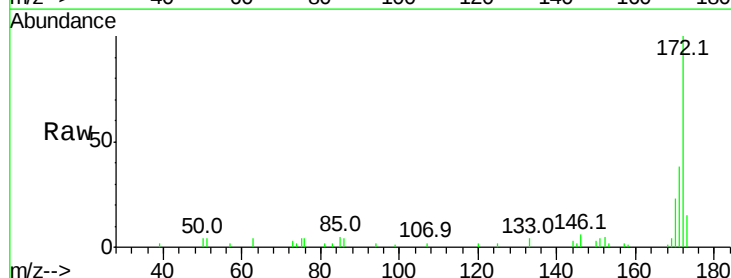
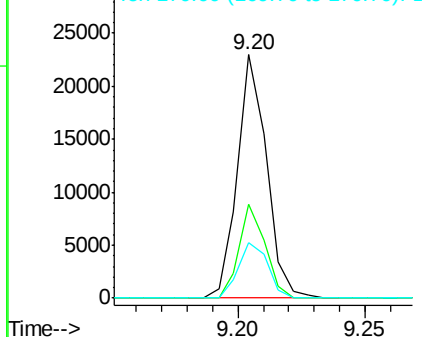
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	18321		
171	38.4		29.7	44.5
170	22.9		19.6	29.4

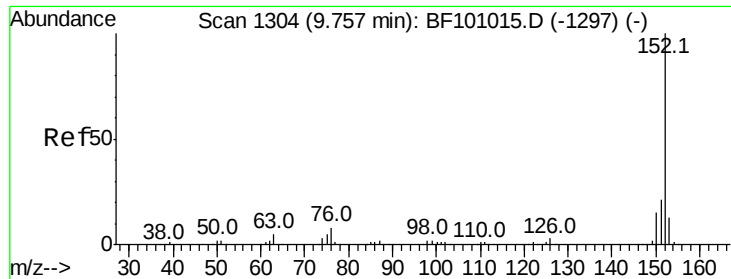
Abundance

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





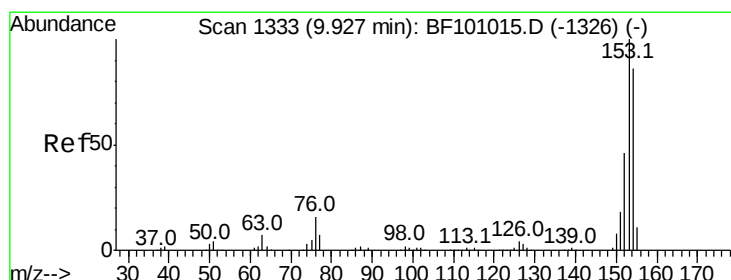
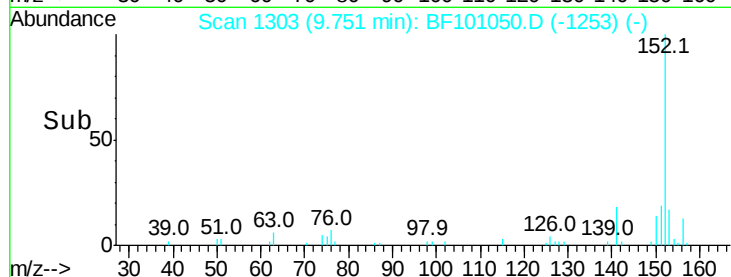
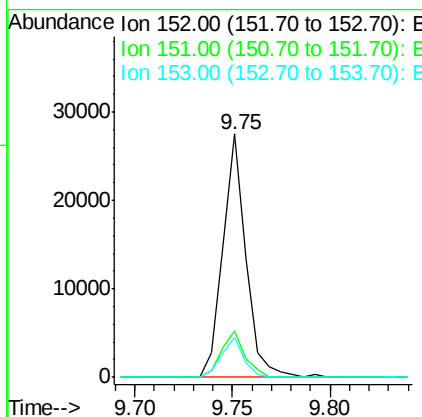
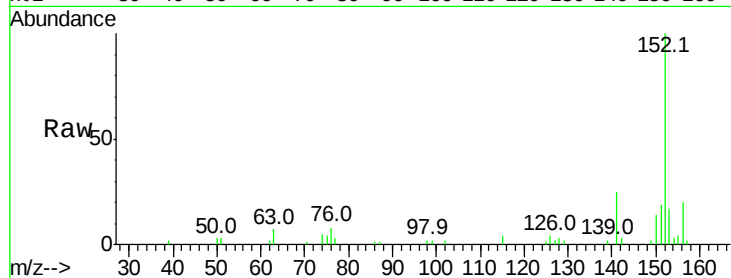
#48
Acenaphthylene
Concen: 2.494 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Instrument :
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ClientSampleId :
CL-02-112817-EDL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	22586		
151	18.9		16.3	24.5
153	16.6		10.7	16.1#

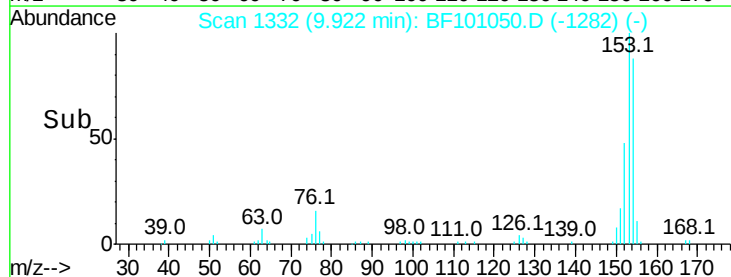
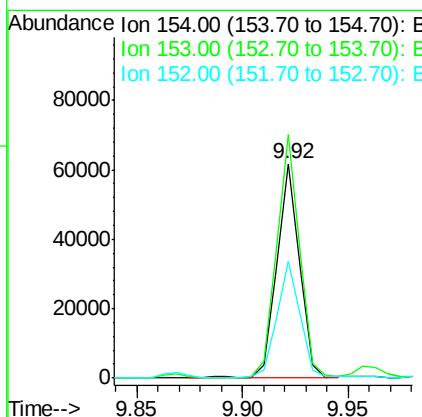
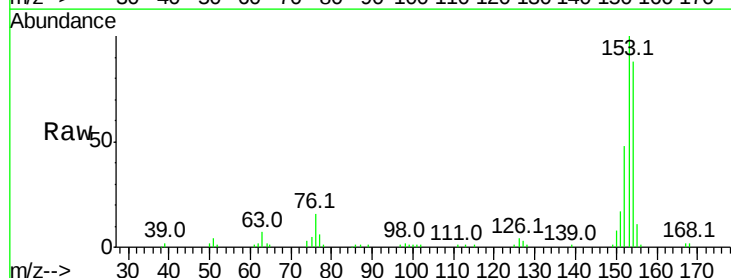
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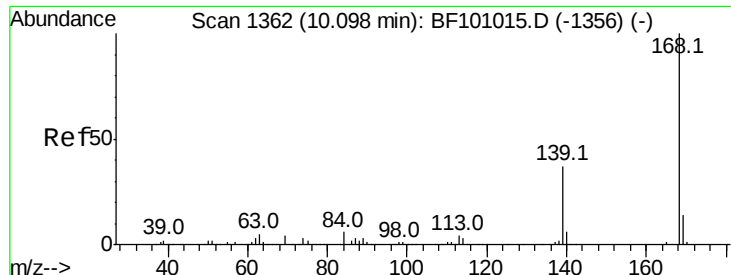
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#51
Acenaphthene
Concen: 8.471 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	45938		
153	113.5		91.2	136.8
152	54.7		43.8	65.8





#54

Dibenzofuran

Concen: 8.566 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

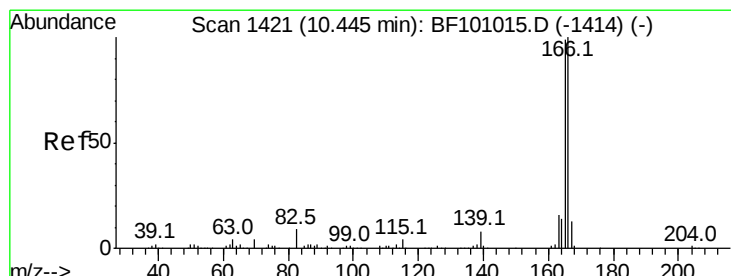
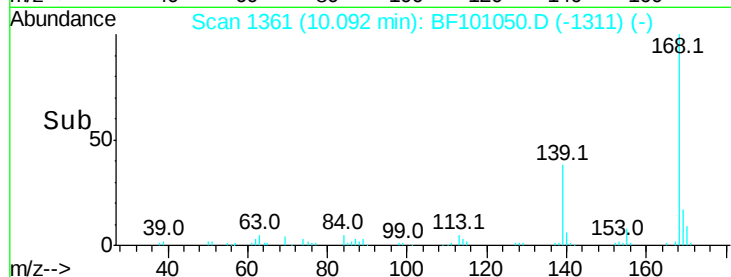
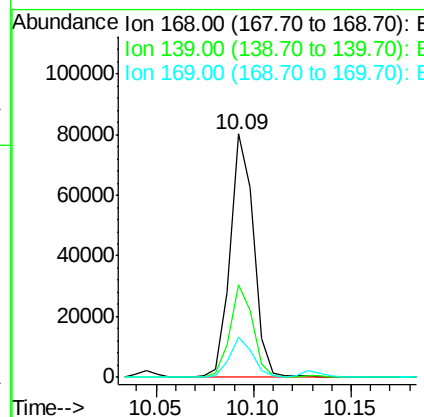
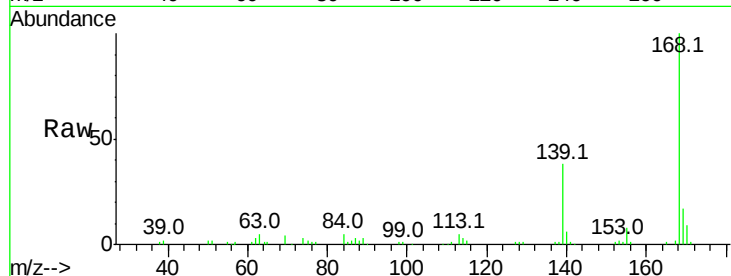
ClientSampleId :

CL-02-112817-EDL

Tot Ion:168	Resp:	66945
Ion Ratio	Lower	Upper
168	100	
139	37.8	30.1 45.1
169	16.5	10.9 16.3#

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#57

Fluorene

Concen: 15.179 ng

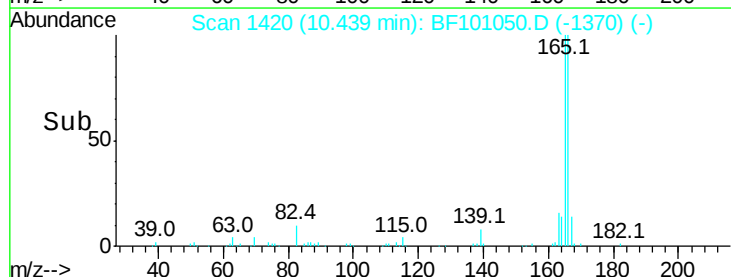
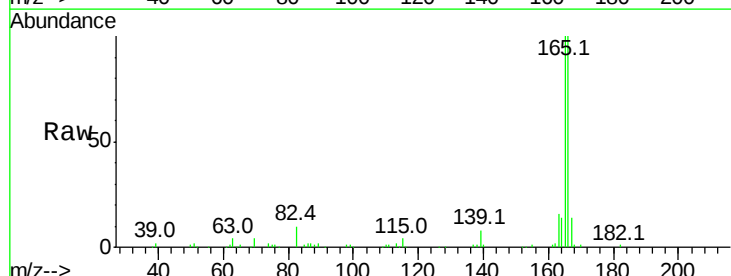
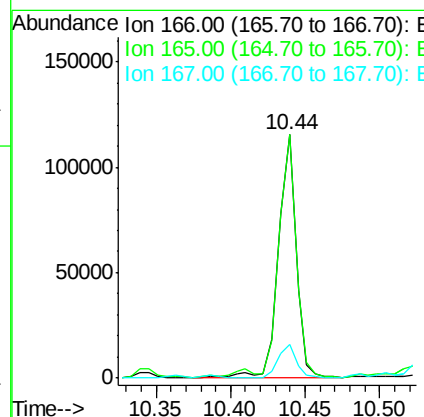
RT: 10.44 min Scan# 1420

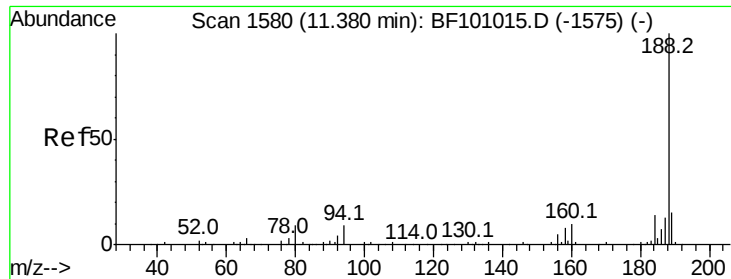
Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Tgt Ion:166	Resp:	96433
Ion Ratio	Lower	Upper
166	100	
165	100.0	79.8 119.8
167	13.7	10.6 16.0





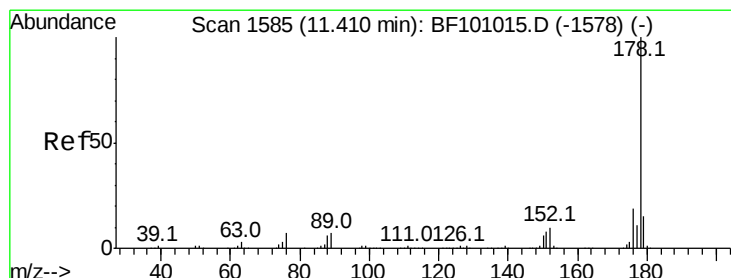
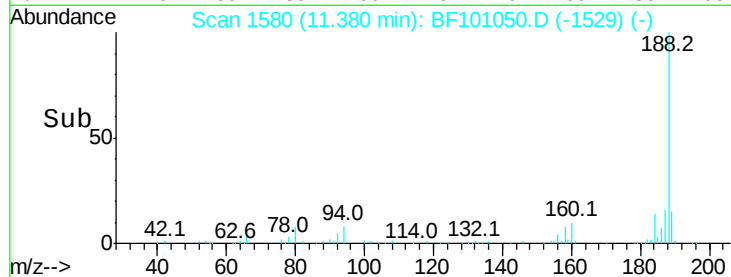
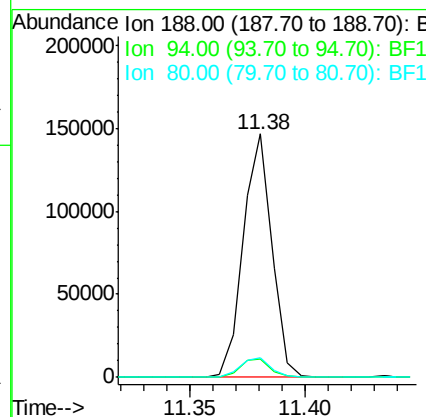
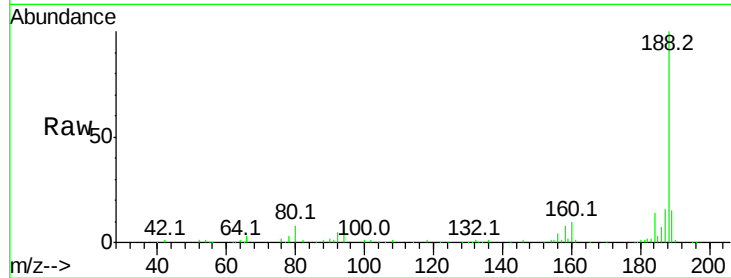
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.7	8.5	12.7#
80	8.1	9.2	13.8#

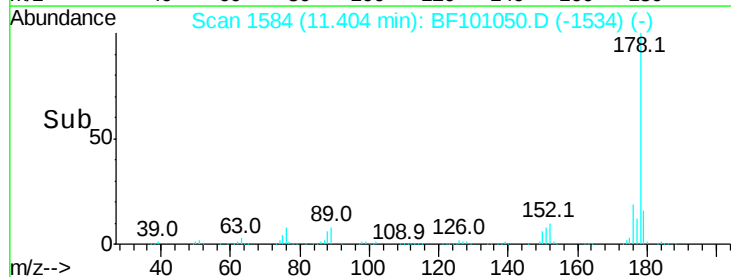
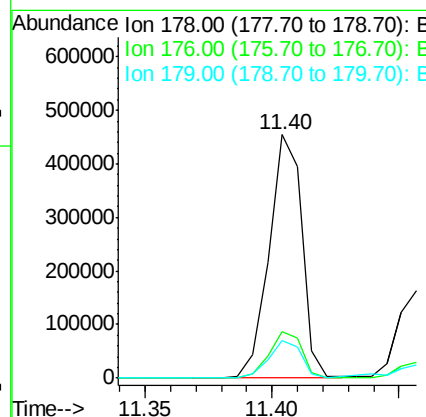
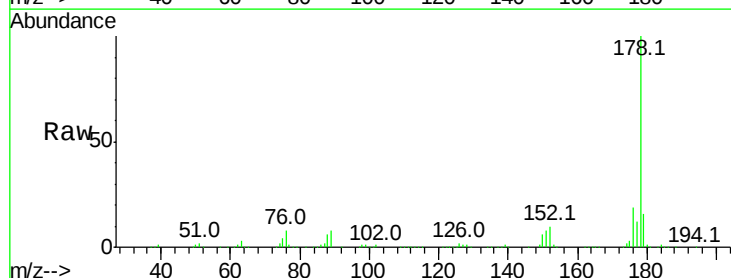
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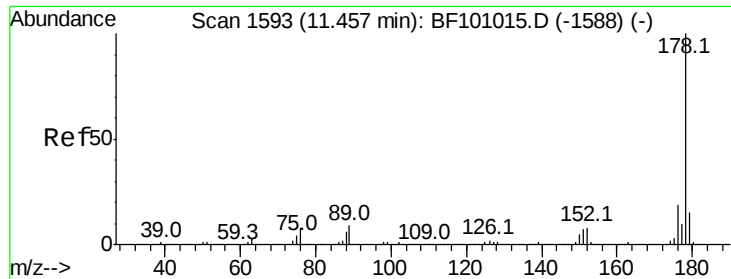
Sohil
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#70
Phenanthrene
Concen: 59.105 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.5	13.0	19.6





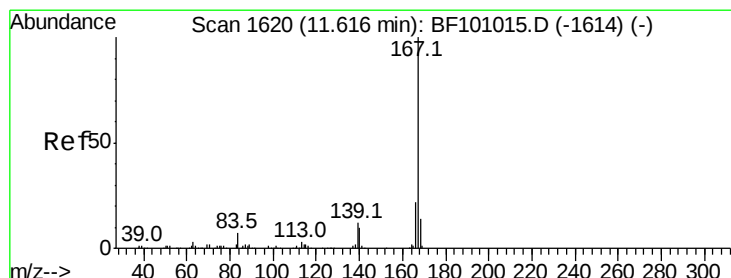
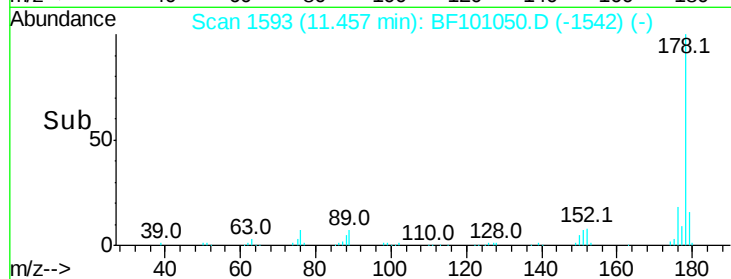
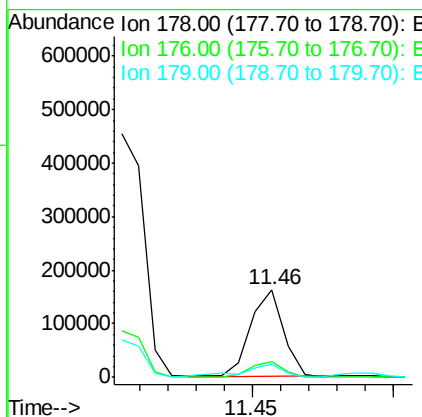
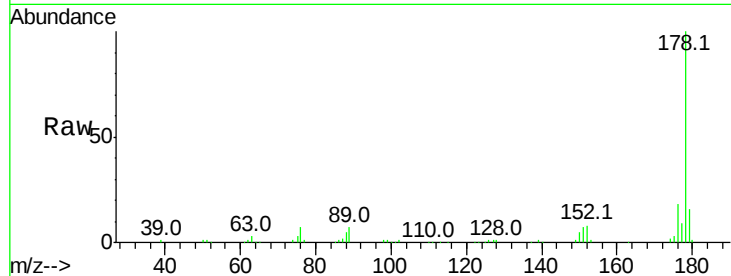
#71
 Anthracene
 Concen: 18.652 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: BF101050.D
 Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.6	12.6	19.0

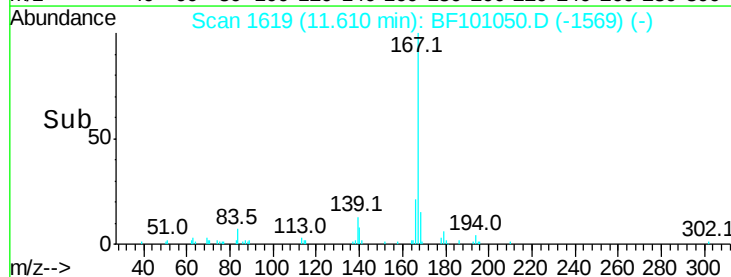
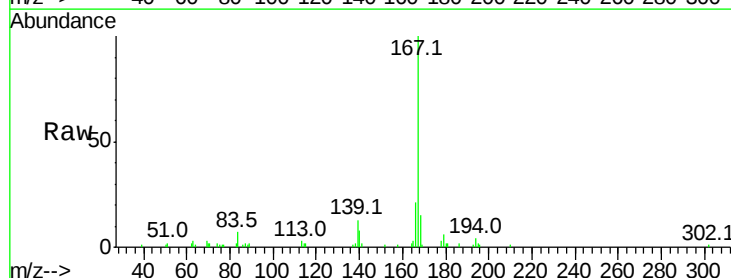
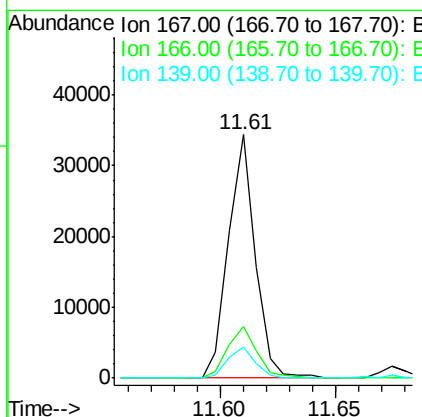
Manual Integrations
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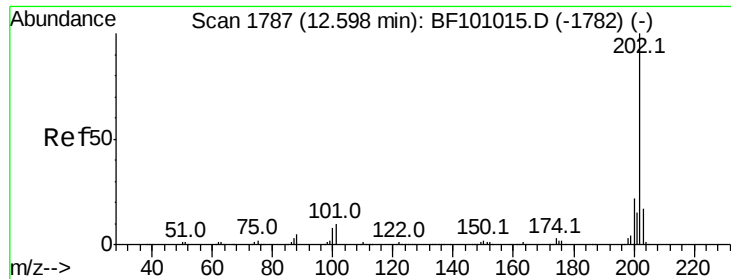
Sohil
 12/1/2017 11:13:25 AM



#72
 Carbazole
 Concen: 4.292 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF101050.D
 Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	12.7	10.9	16.3





#74

Fluoranthene

Concen: 56.167 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

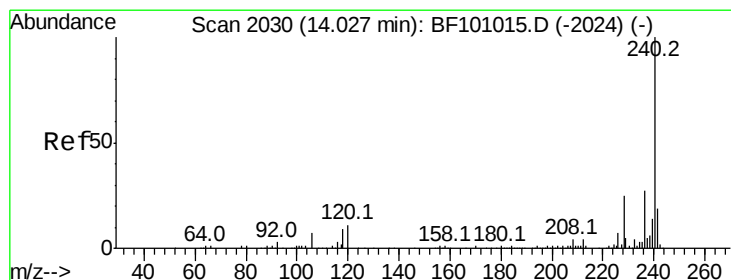
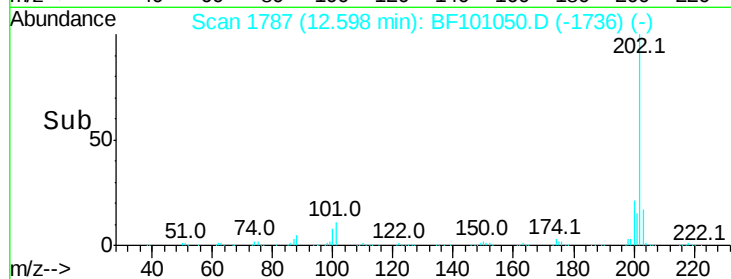
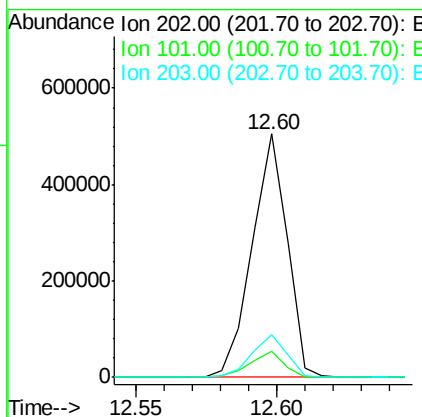
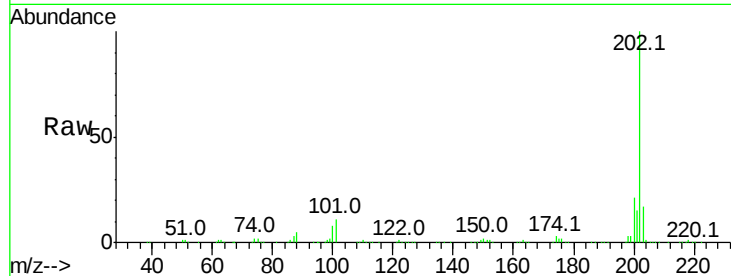
ClientSampleId :

CL-02-112817-EDL

Tot Ion:	202	Resp:	435242
Ion Ratio	Lower	Upper	
202	100		
101	10.7	0.0	34.1
203	17.5	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

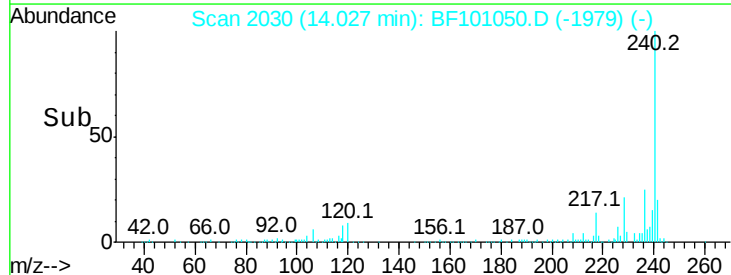
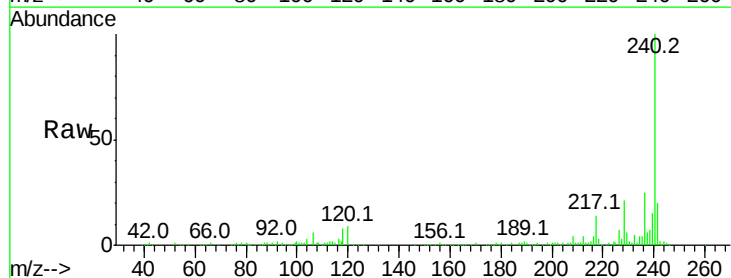
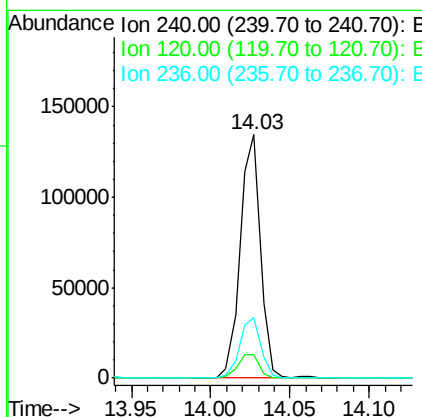
RT: 14.03 min Scan# 2030

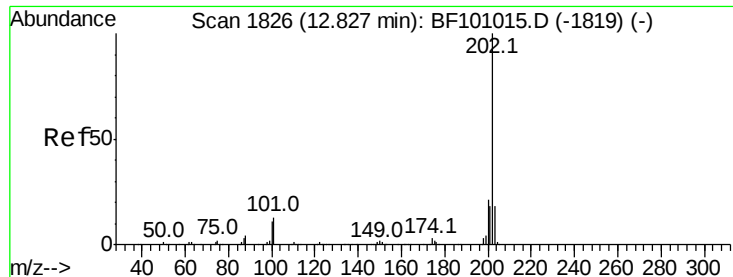
Delta R.T. 0.00 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Tgt Ion:	240	Resp:	119927
Ion Ratio	Lower	Upper	
240	100		
120	9.5	9.5	14.3#
236	25.1	20.7	31.1





#77

Pvrene

Concen: 47.969 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

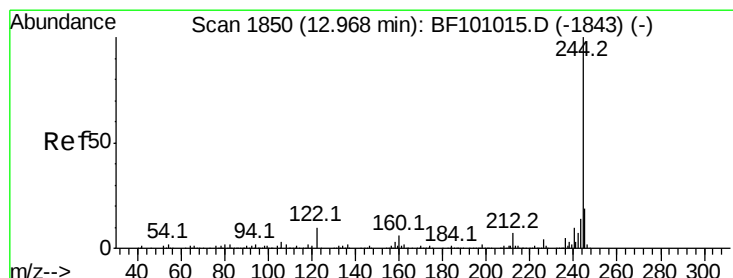
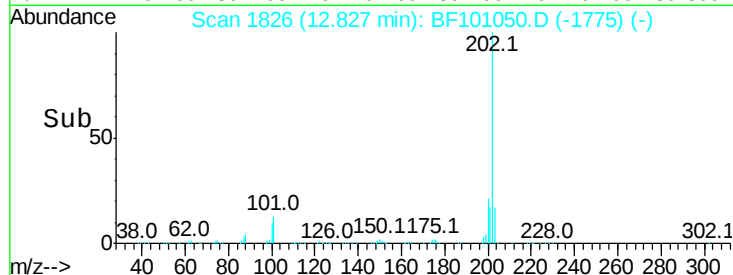
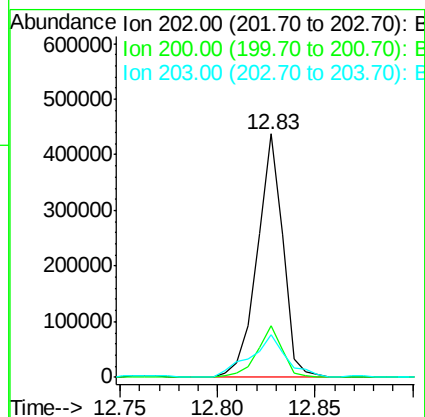
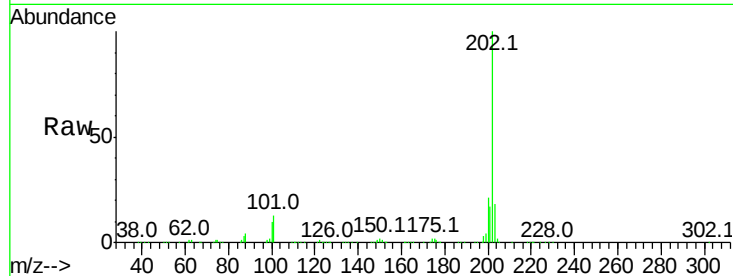
ClientSampleId :

CL-02-112817-EDL

Tot Ion:	202	Resp:	396956
Ion Ratio		Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.7	14.3	21.5

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#78

Terphenyl-d14

Concen: 2.429 ng

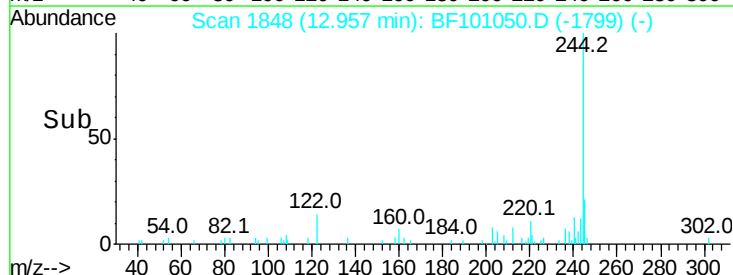
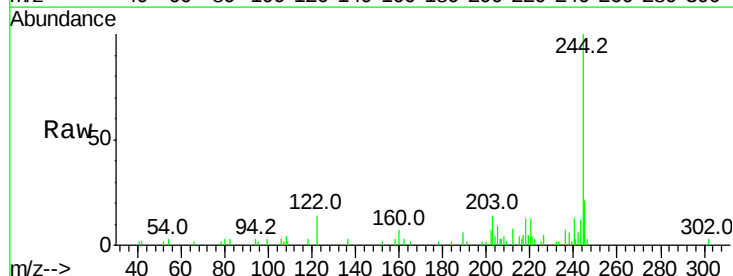
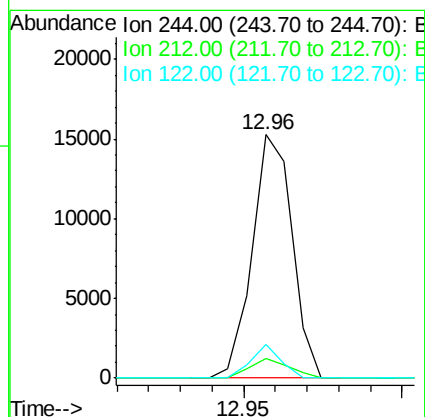
RT: 12.96 min Scan# 1848

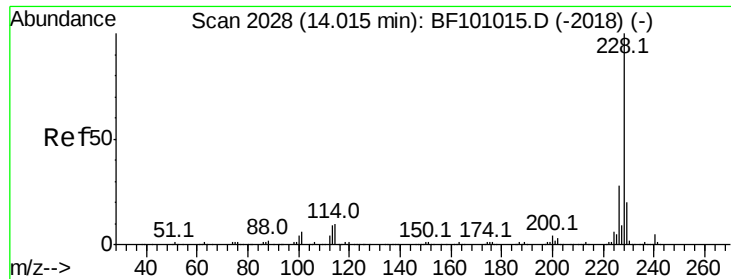
Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Tgt Ion:	244	Resp:	13320
Ion Ratio		Lower	Upper
244	100		
212	8.2	5.4	8.0#
122	13.7	11.0	16.4





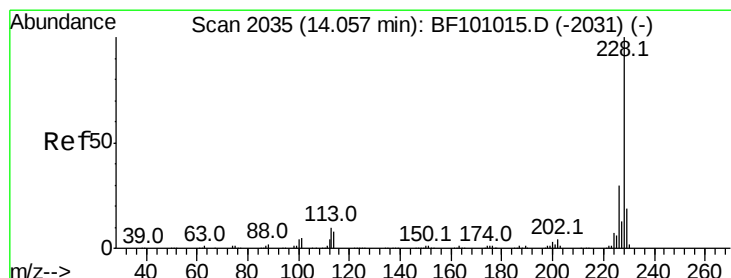
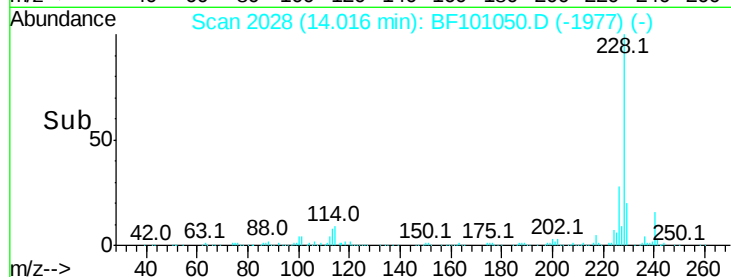
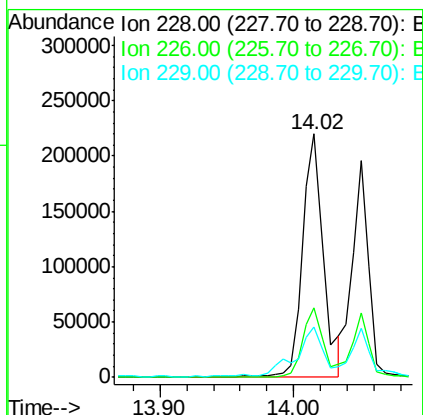
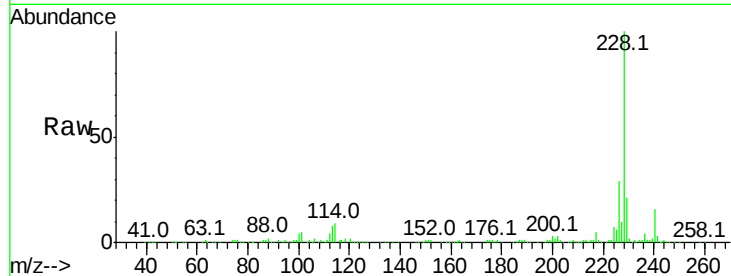
#80
Benzo(a)anthracene
Concen: 30.945 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.5	15.8	23.6

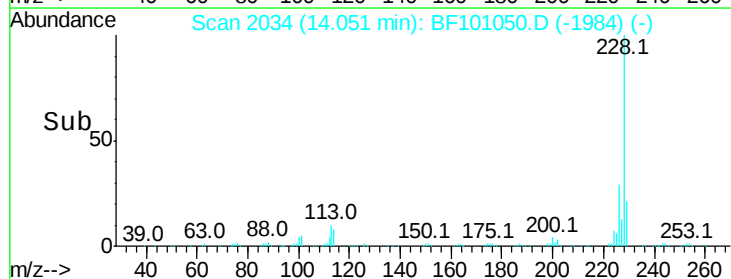
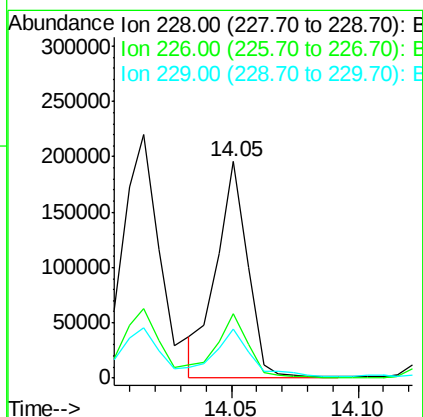
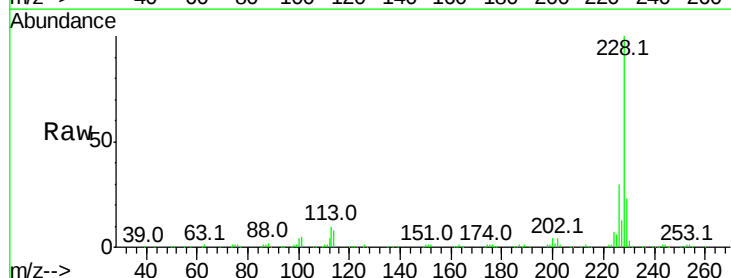
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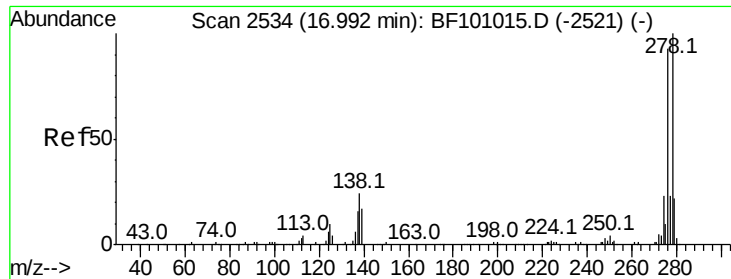
Sohil
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#82
Chrysene
Concen: 23.831 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	25.0	37.6
229	22.5	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.338 ng

RT: 16.97 min Scan# 2531

Delta R.T. -0.02 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

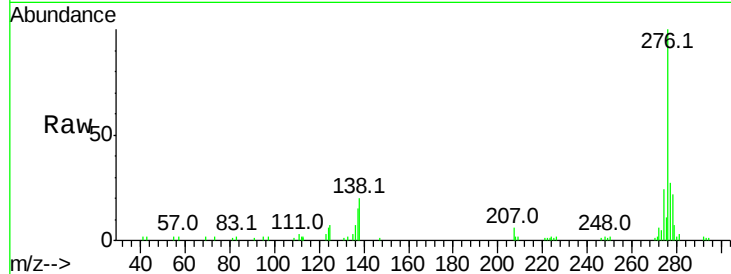
ClientSampleId :

CL-02-112817-EDL

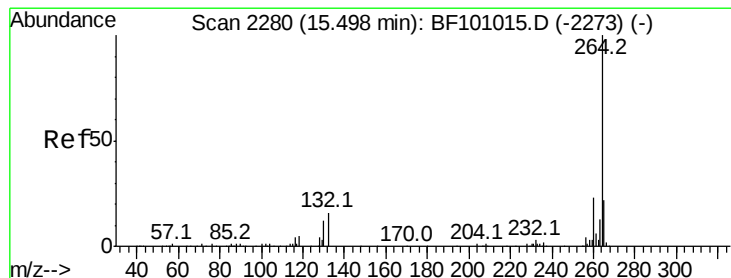
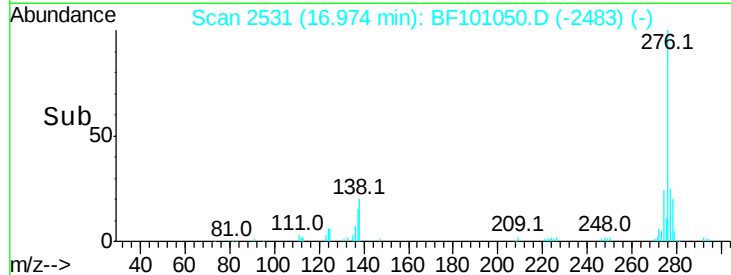
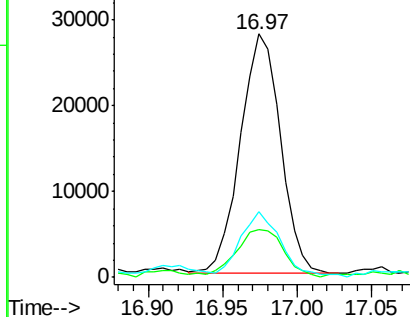
Tot Ion:	276	Resp:	52126
Ion Ratio	Lower	Upper	
276	100		
138	23.4	25.0	37.6#
277	28.0	20.1	30.1

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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

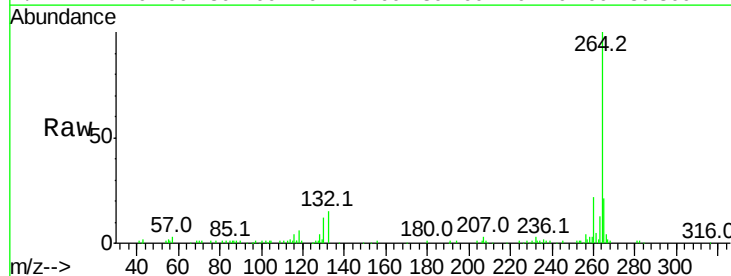
RT: 15.50 min Scan# 2280

Delta R.T. 0.00 min

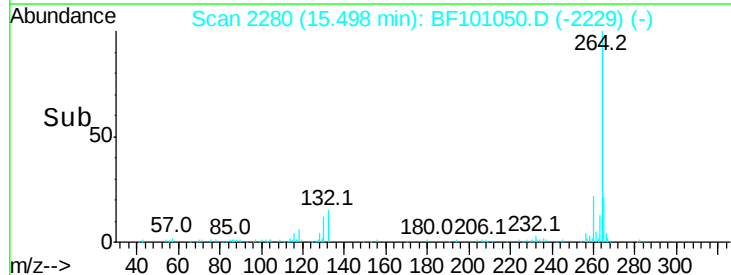
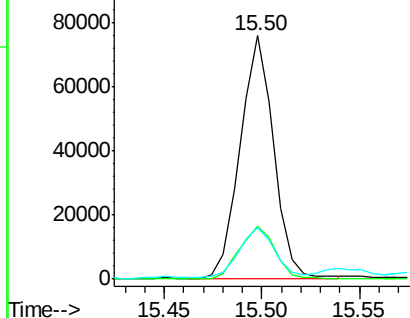
Lab File: BF101050.D

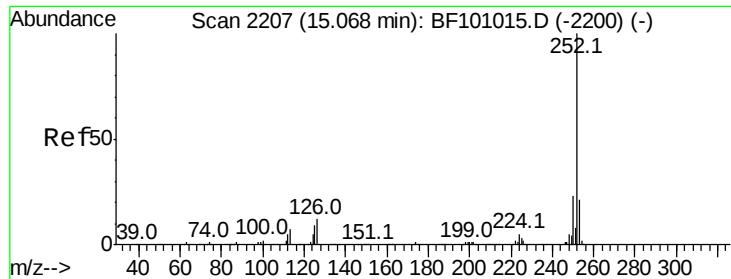
Acq: 1 Dec 2017 7:43

Tgt Ion:	264	Resp:	91013
Ion Ratio	Lower	Upper	
264	100		
260	21.6	19.2	28.8
265	21.2	17.5	26.3



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: 30.537 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Instrument :

BNA_F

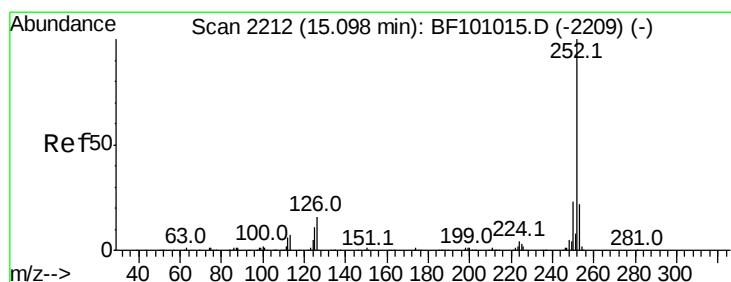
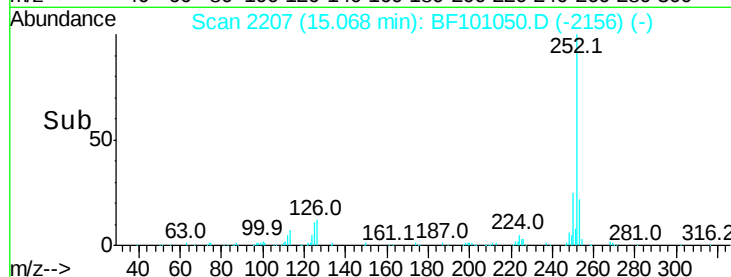
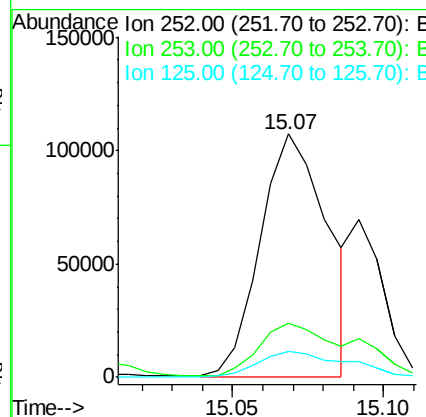
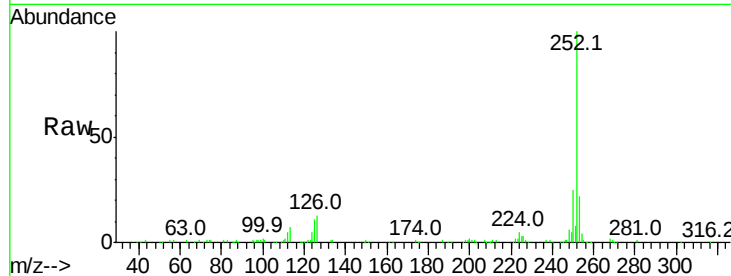
ClientSampleId :

CL-02-112817-EDL

Tot Ion:	252	Resp:	166470
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.0	25.6
125	10.8	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 9.789 ng m

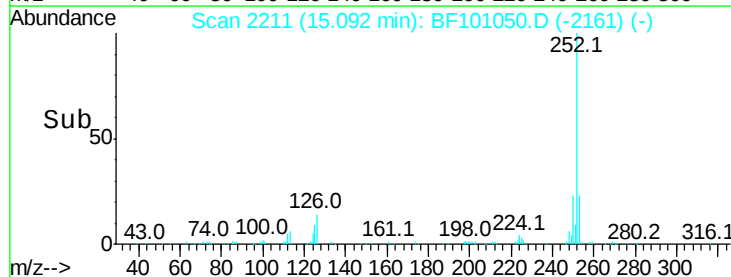
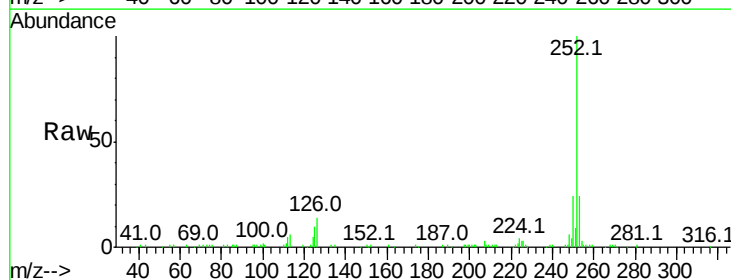
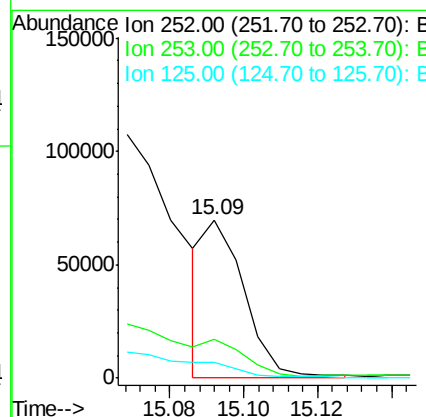
RT: 15.09 min Scan# 2211

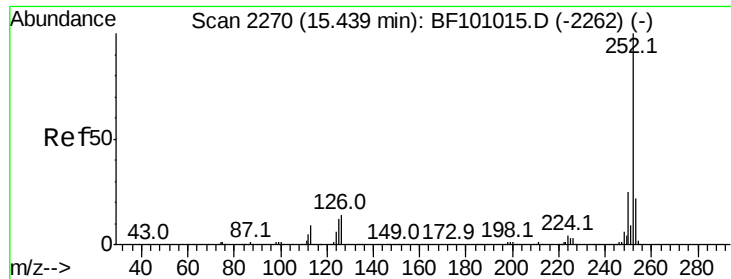
Delta R.T. -0.01 min

Lab File: BF101050.D

Acq: 1 Dec 2017 7:43

Tgt Ion:	252	Resp:	52577
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.9	26.9
125	9.8	10.2	15.2#





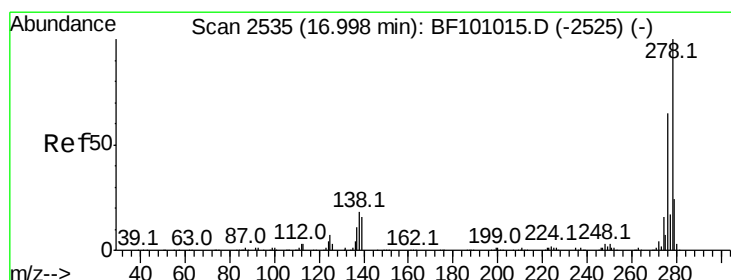
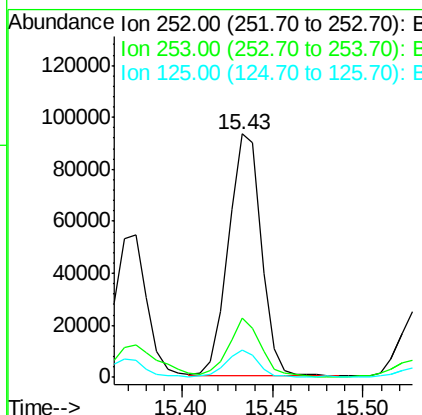
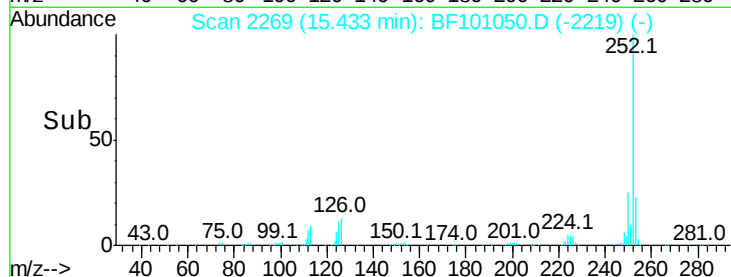
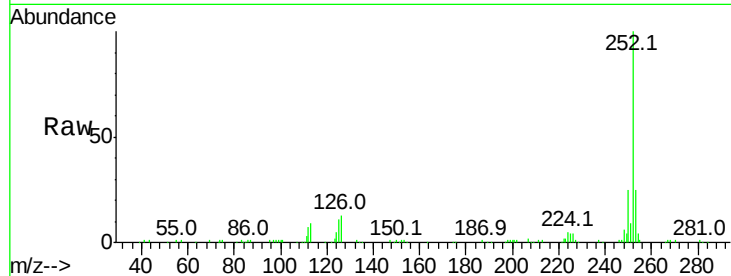
#89
Benzo(a)pyrene
Concen: 23.646 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.1	25.7
125	11.1	9.8	14.6

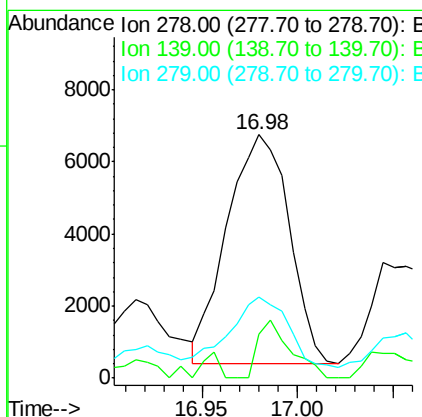
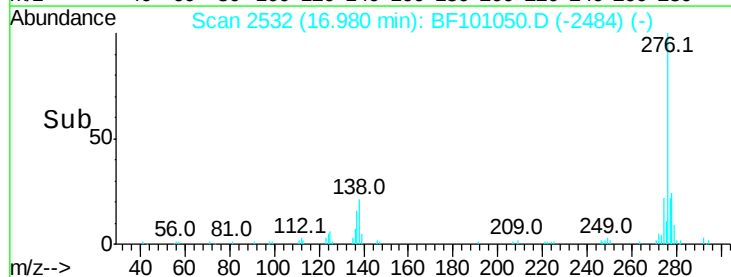
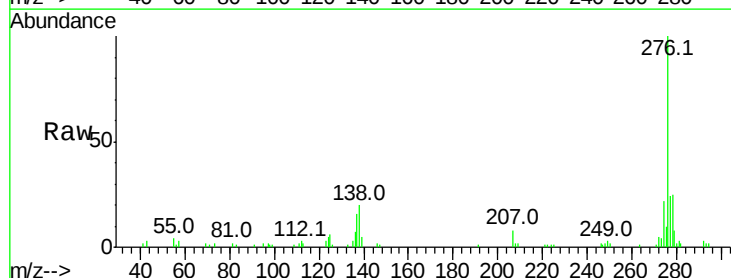
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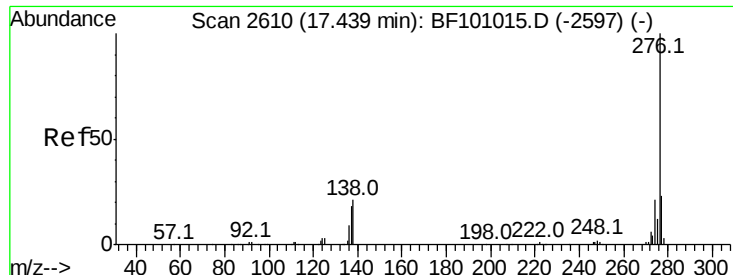
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 3.286 ng m
RT: 16.98 min Scan# 2532
Delta R.T. -0.02 min
Lab File: BF101050.D
Acq: 1 Dec 2017 7:43

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.2	15.9	23.9
279	33.2	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 12.232 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. -0.01 min
 Lab File: BF101050.D
 Acq: 1 Dec 2017 7:43

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	19.7	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/1/2017 11:13:25 AM

