

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101049.D
 Acq On : 1 Dec 2017 7:16
 Operator : SJ/JU
 Sample : I6304-24DL 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Sohil
 12/1/2017 11:13:23 AM

Quant Time: Dec 01 10:37:12 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	57365	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	220330	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	87304	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	135274	20.00	ng	0.00
75) Chrysene-d12	14.03	240	127006	20.00	ng	0.00
86) Perylene-d12	15.50	264	94288	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	17363	5.00	ng	0.00
7) Phenol-d6	6.47	99	22298	5.29	ng	-0.01
23) Nitrobenzene-d5	7.41	82	12111	3.28	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	3914	3.73	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	28261	4.43	ng	0.00
78) Terphenyl-d14	12.96	244	21863	3.77	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	110005	10.130	ng	99
37) 2-Methylnaphthalene	8.85	142	51079	6.923	ng	98
48) Acenaphthylene	9.75	152	23738	2.543	ng	99
51) Acenaphthene	9.92	154	33712	6.031	ng	99
54) Dibenzofuran	10.09	168	53681	6.664	ng	# 95
57) Fluorene	10.44	166	73800	11.270	ng	98
70) Phenanthrene	11.40	178	342798	46.016	ng	99
71) Anthracene	11.46	178	114540	15.192	ng	95
72) Carbazole	11.61	167	20871	3.030	ng	97
74) Fluoranthene	12.60	202	388430	47.039	ng	96
77) Pyrene	12.83	202	363521	41.480	ng	99
80) Benzo(a)anthracene	14.02	228	218588	27.259	ng	99
82) Chrysene	14.05	228	163590	21.966	ng	96
85) Indeno(1,2,3-cd)pyrene	16.98	276	54689	8.260	ng	# 90
87) Benzo(b)fluoranthene	15.07	252	169827m	30.071	ng	
88) Benzo(k)fluoranthene	15.09	252	58485m	10.511	ng	
89) Benzo(a)pyrene	15.44	252	122295m	23.819	ng	
90) Dibenzo(a,h)anthracene	16.98	278	15668m	3.461	ng	
91) Benzo(a,h,i)perylene	17.43	276	53778	12.607	ng	90

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

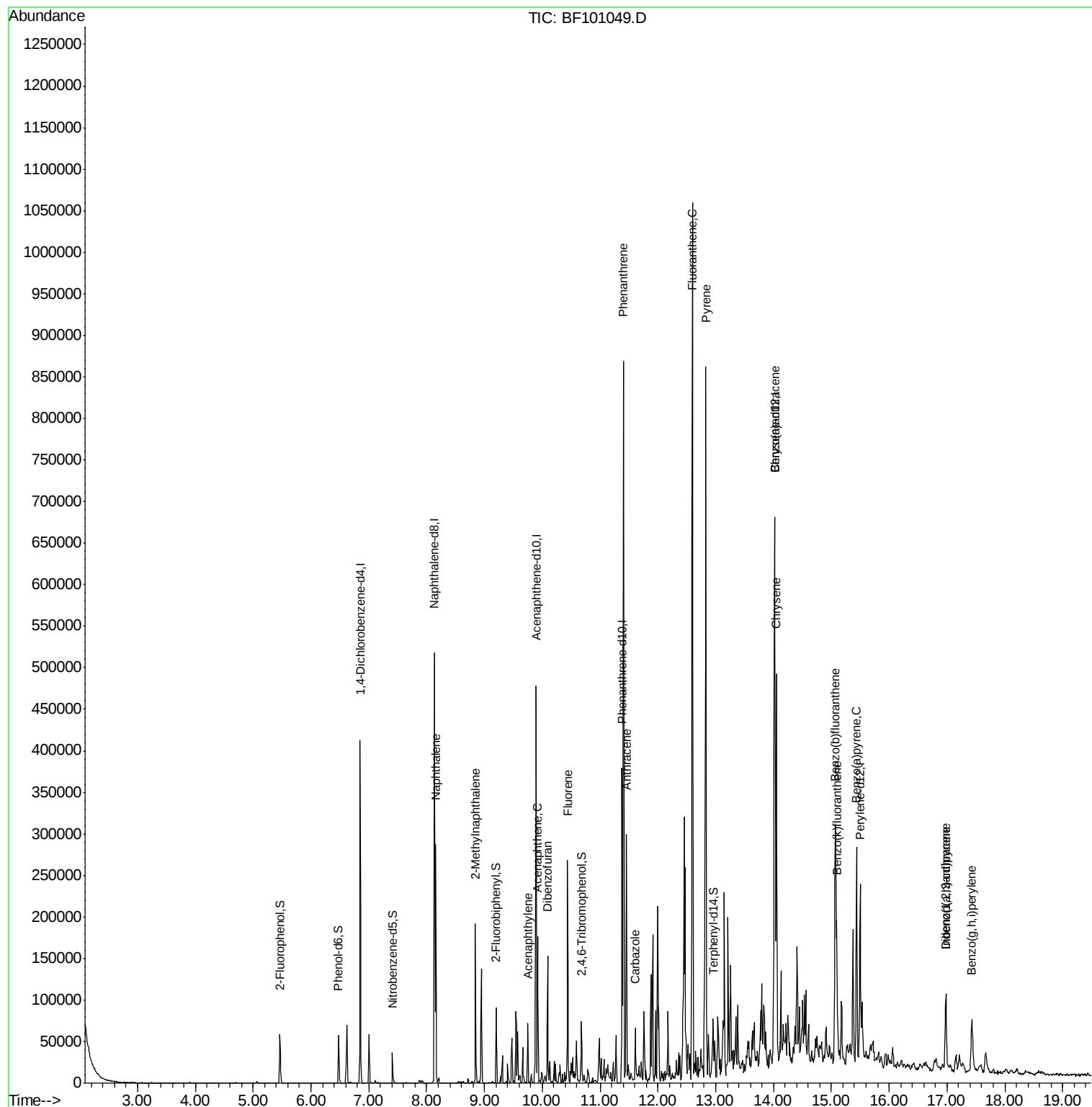
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
Data File : BF101049.D
Acq On : 1 Dec 2017 7:16
Operator : SJ/JU
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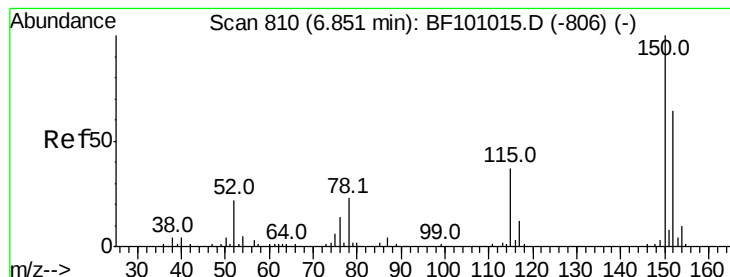
Instrument :
BNA_F
ClientSampleId :
CL-02-112817-BDL

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

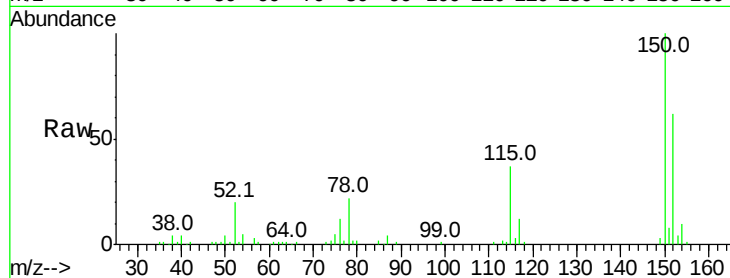
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	124.6	186.8
115	58.8	50.1	75.1

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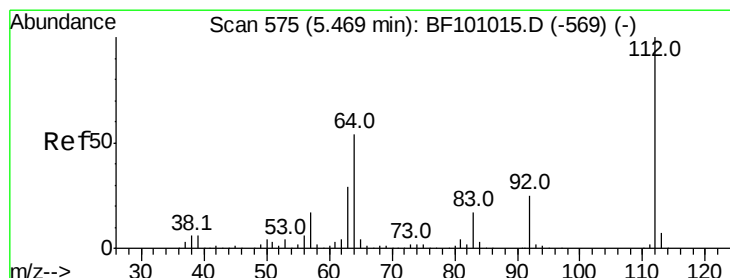
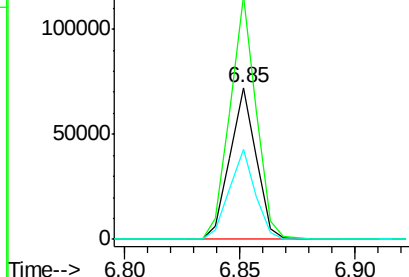
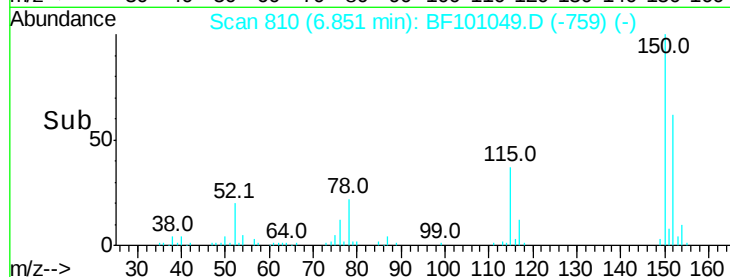


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

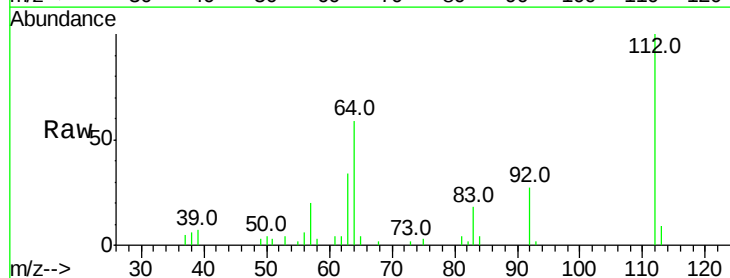
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 5.002 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.9	71.9
63	33.6	23.7	35.5

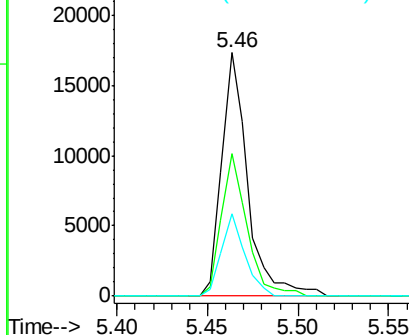
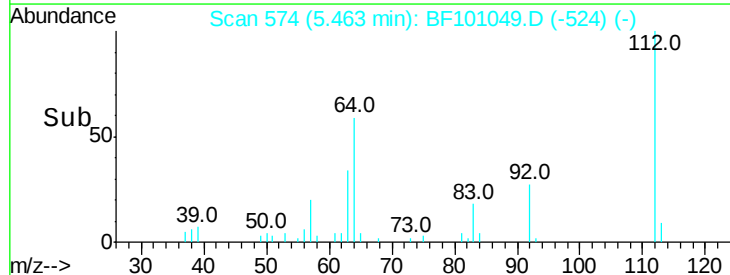


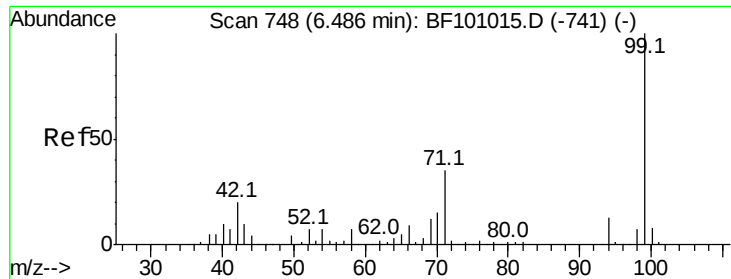
Abundance

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: 5.290 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Instrument :

BNA_F

ClientSampleId :

CL-02-112817-BDL

Tot Ion: 99 Resp: 22298

Ion Ratio Lower Upper

99 100

42 20.5 14.5 21.7

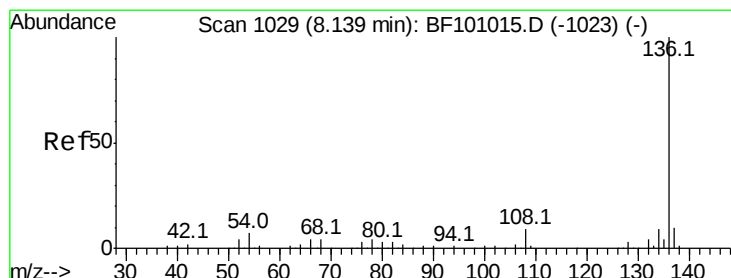
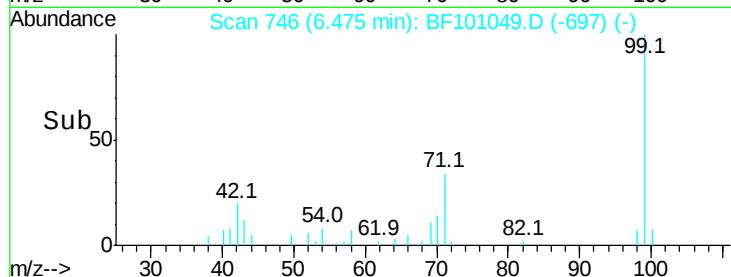
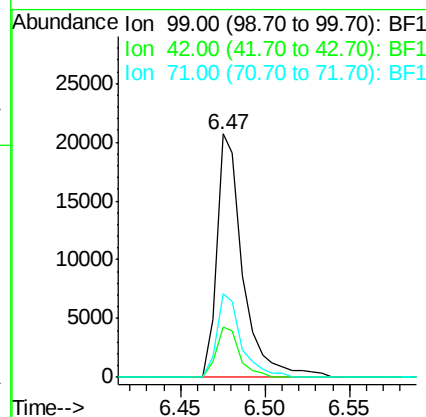
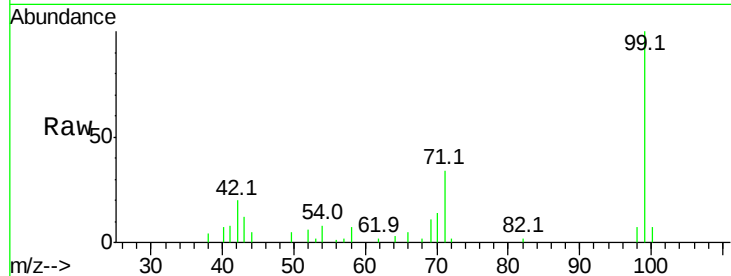
71 34.2 25.4 38.0

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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: BF101049.D

Acq: 1 Dec 2017 7:16

Tgt Ion: 136 Resp: 220330

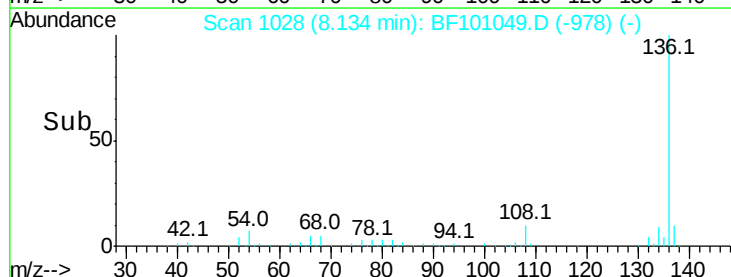
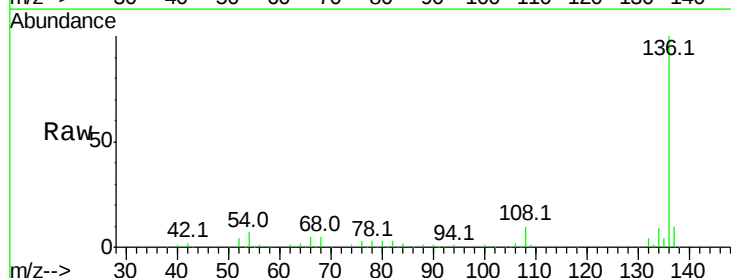
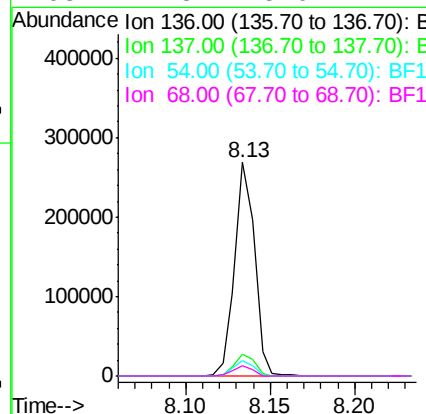
Ion Ratio Lower Upper

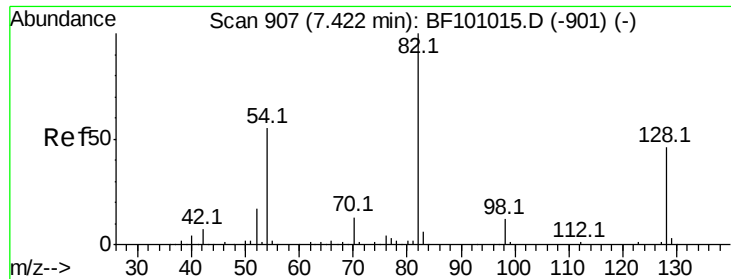
136 100

137 10.5 8.9 13.3

54 7.4 6.6 9.8

68 4.8 5.0 7.4#





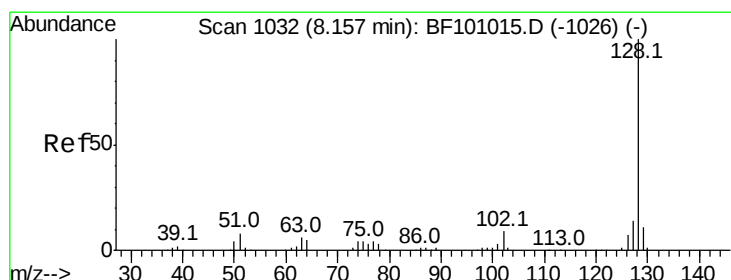
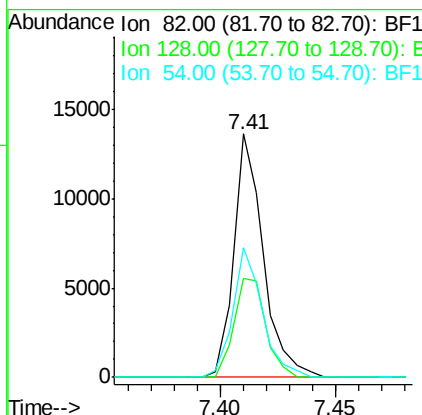
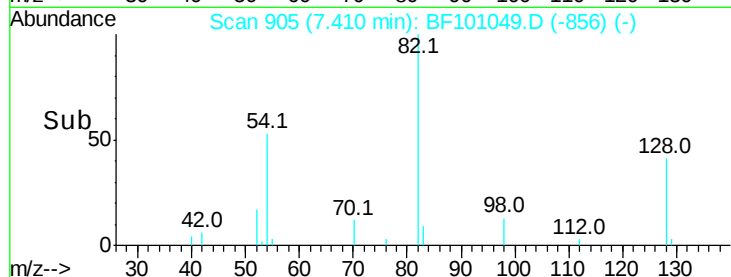
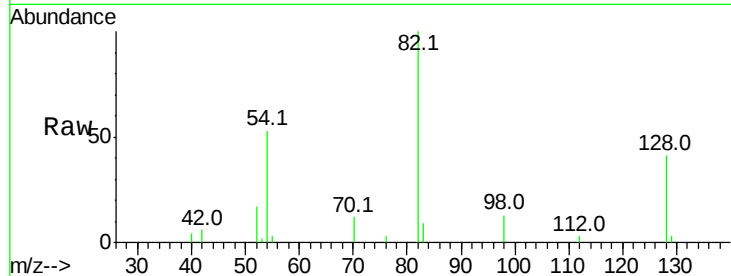
#23
Nitrobenzene-d5
Concen: 3.279 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.8	36.1	54.1	
54	53.3	41.4	62.2	

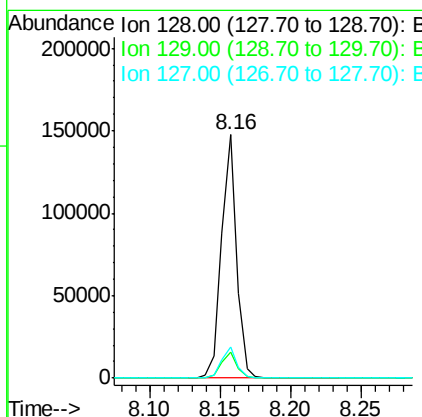
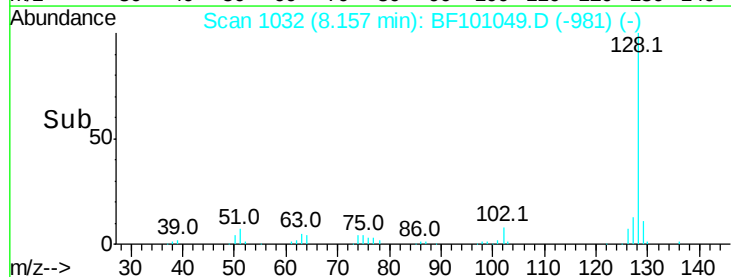
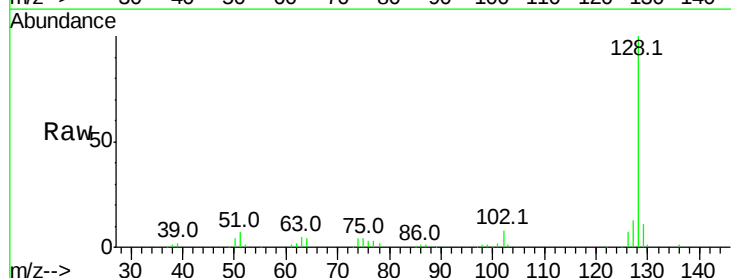
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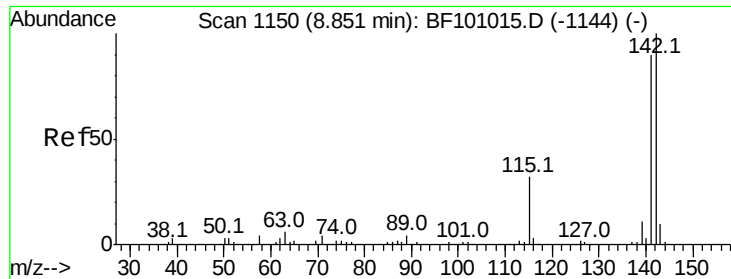
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#31
Naphthalene
Concen: 10.130 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	8.8	13.2	
127	13.0	10.9	16.3	





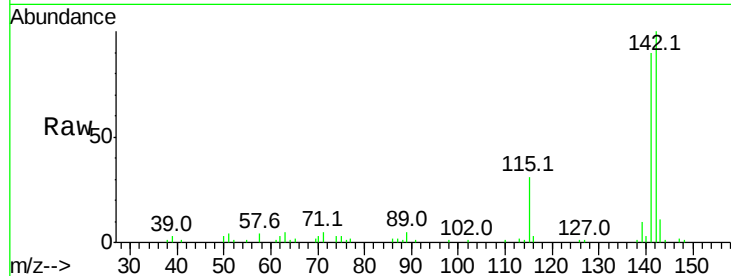
#37
2-Methylnaphthalene
Concen: 6.923 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

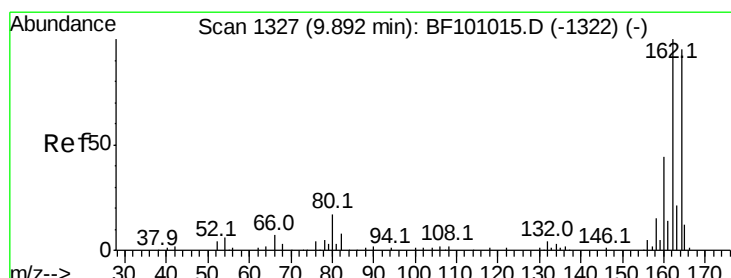
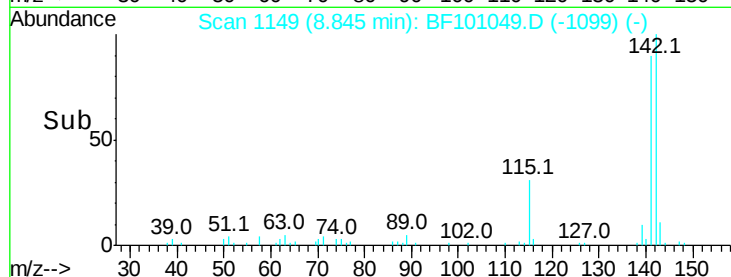
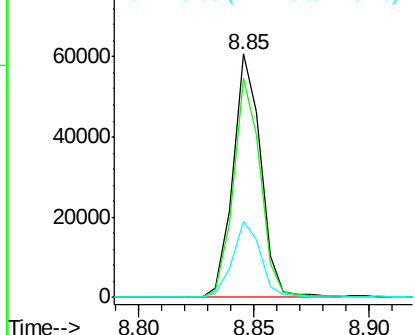
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	70.8	106.2
115	31.0	26.1	39.1

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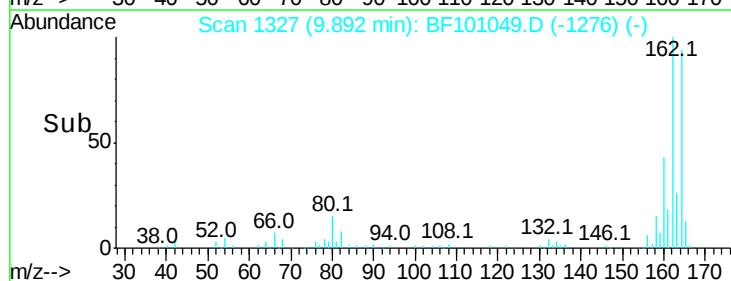
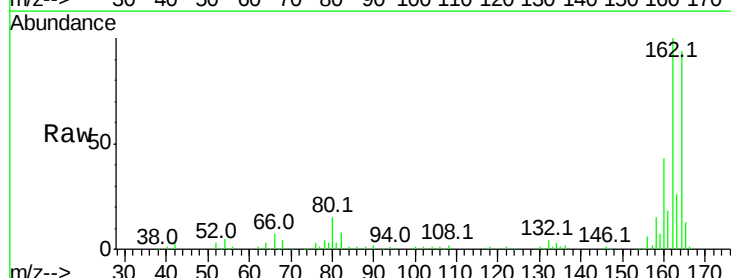
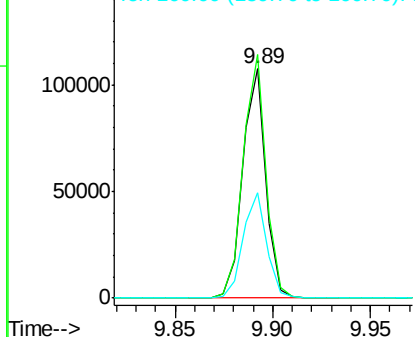
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

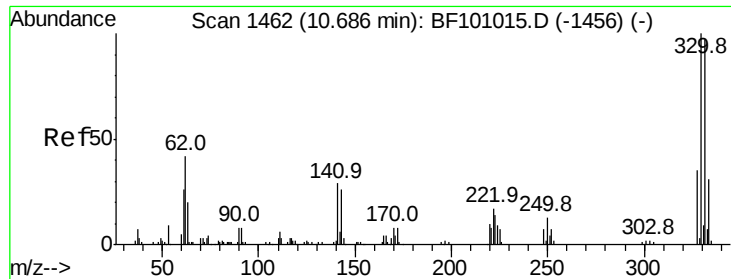


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	86.1	129.1
160	45.8	38.3	57.5

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





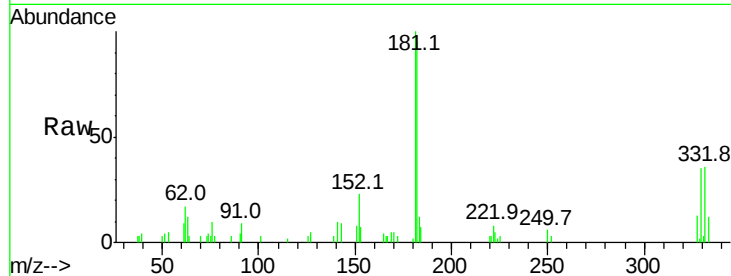
#41
 2,4,6-Tribromophenol
 Concen: 3.732 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101049.D
 Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	88.9	77.0	115.6
141	29.1	29.9	44.9#

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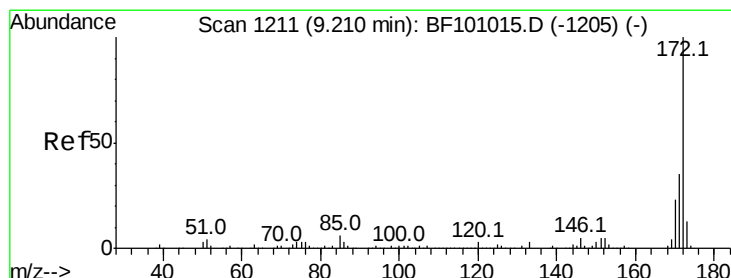
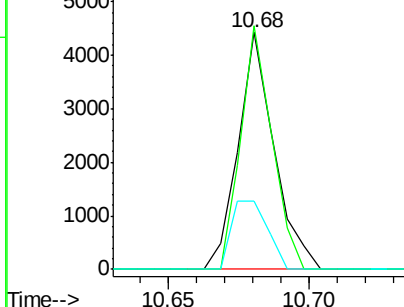
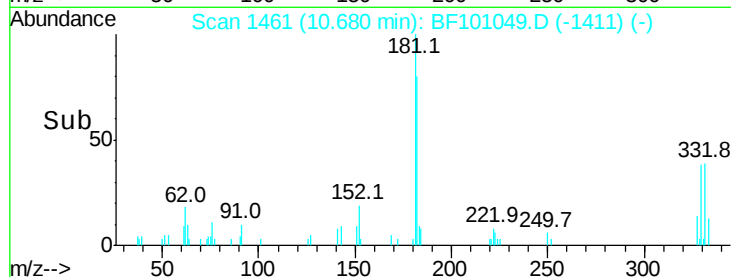


Abundance

Ion 329.80 (329.50 to 330.50): E

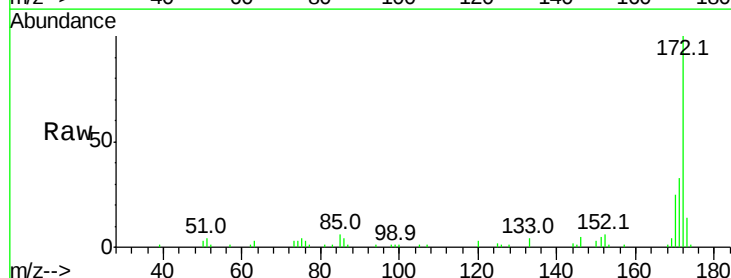
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 4.429 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101049.D
 Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.7	29.7	44.5
170	25.0	19.6	29.4

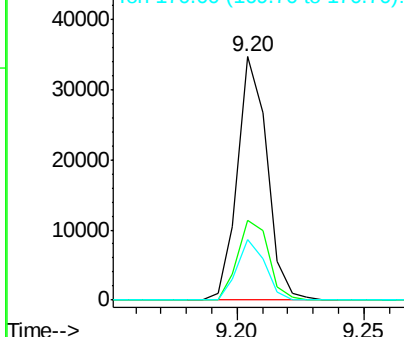
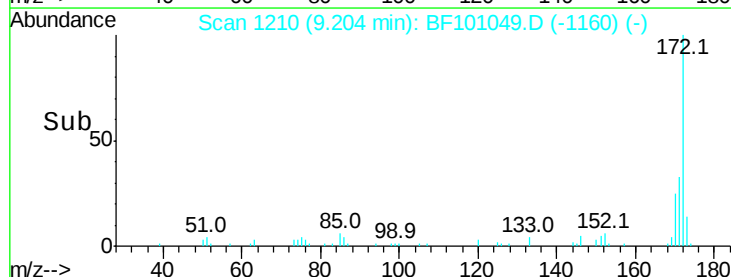


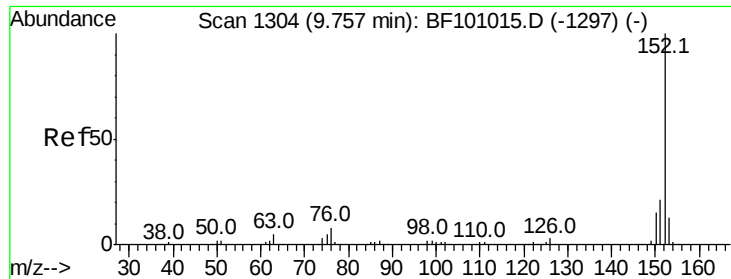
Abundance

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





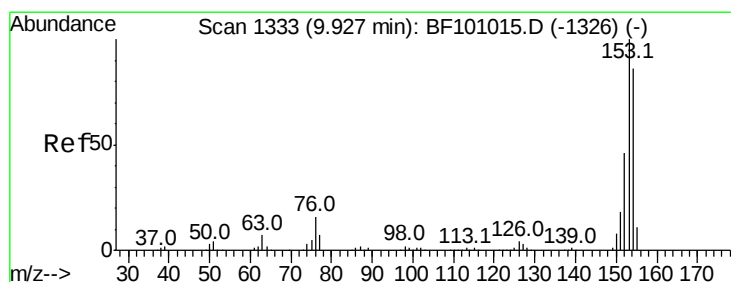
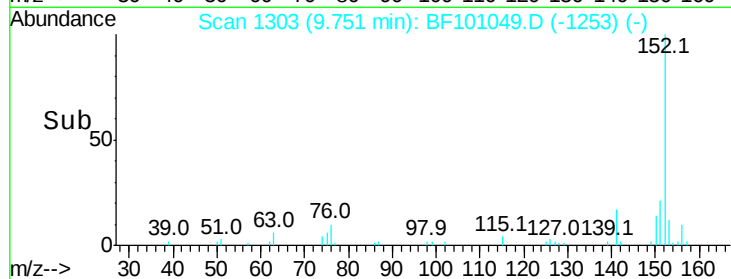
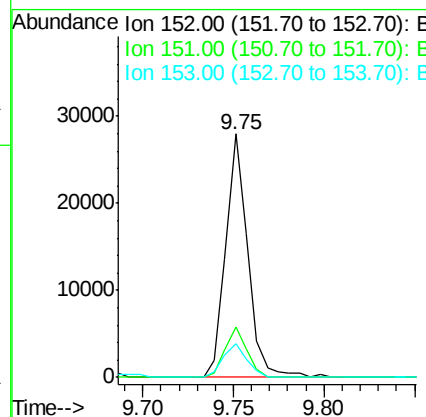
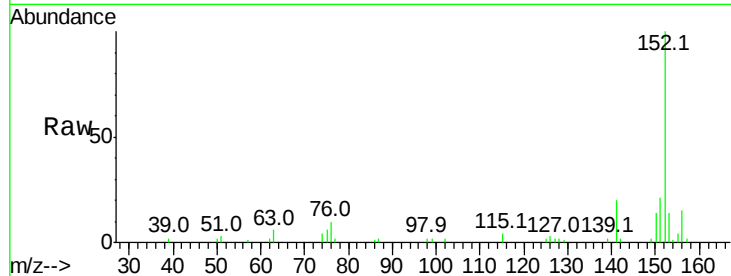
#48
Acenaphthylene
Concen: 2.543 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Instrument :
BNA_F
ClientSampled :
CL-02-112817-BDL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	23738		
151	20.9		16.3	24.5
153	13.7		10.7	16.1

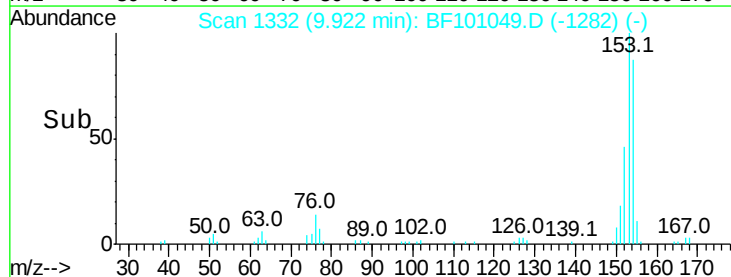
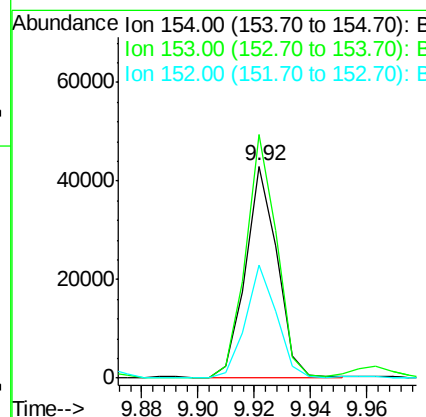
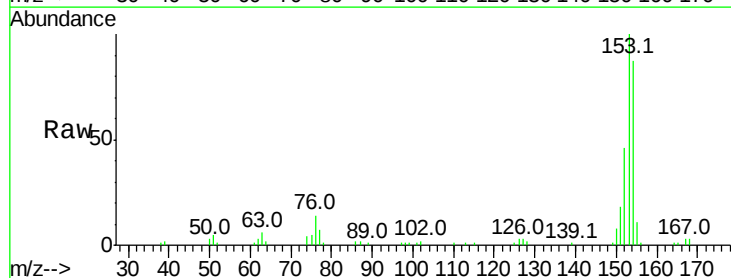
Manual Integrations
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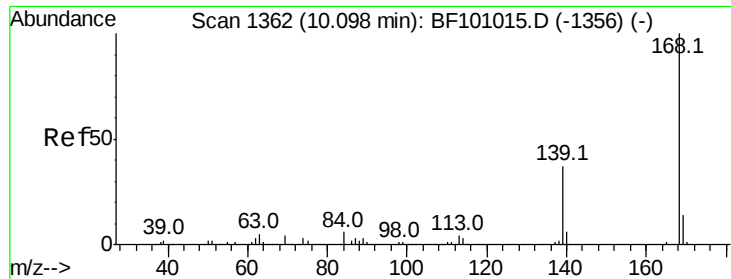
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#51
Acenaphthene
Concen: 6.031 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	33712		
153	114.8		91.2	136.8
152	53.3		43.8	65.8





#54

Dibenzofuran

Concen: 6.664 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Instrument :

BNA_F

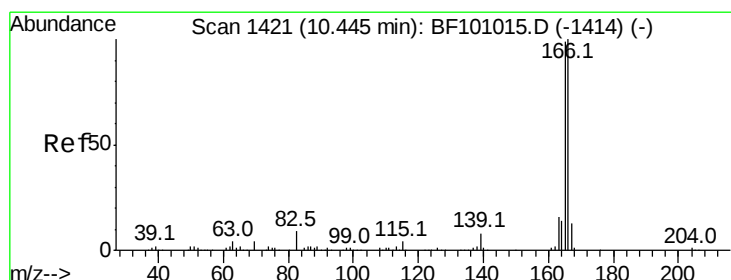
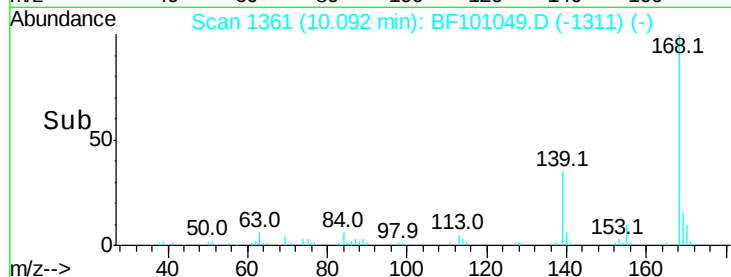
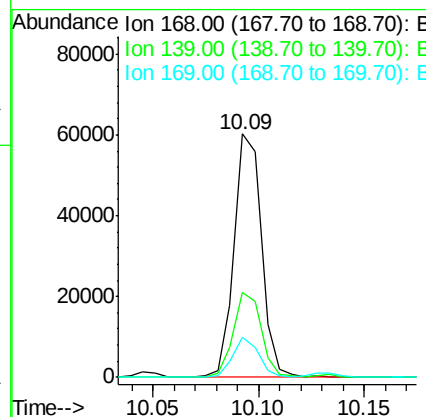
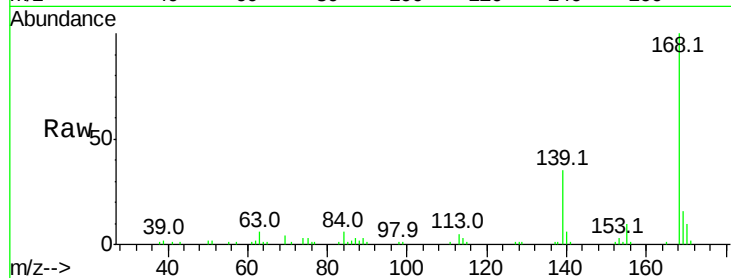
ClientSampleId :

CL-02-112817-BDL

Tot Ion:	168	Resp:	53681
Ion Ratio	Lower	Upper	
168	100		
139	34.7	30.1	45.1
169	16.4	10.9	16.3#

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#57

Fluorene

Concen: 11.270 ng

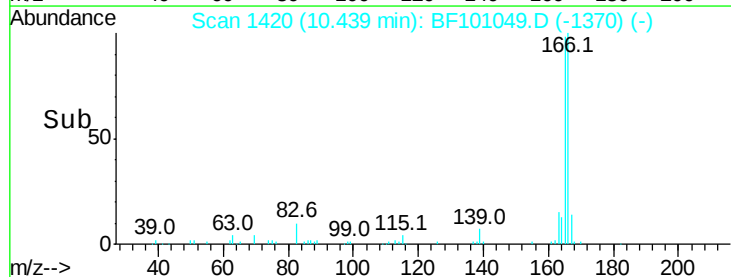
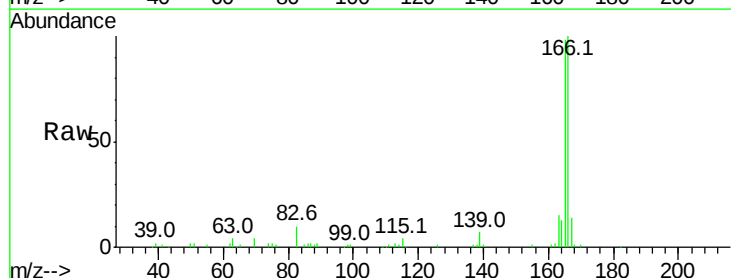
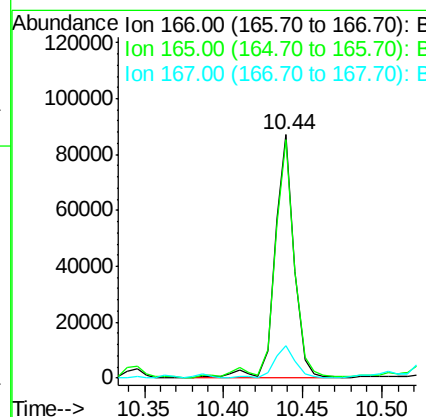
RT: 10.44 min Scan# 1420

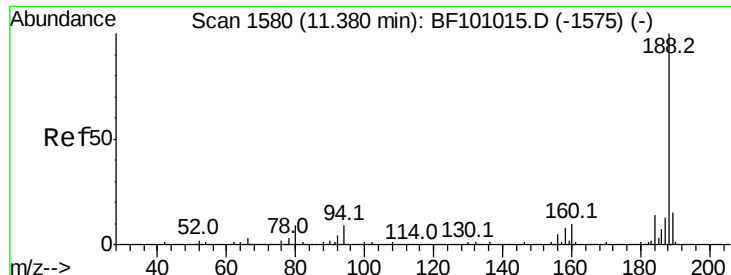
Delta R.T. -0.01 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Tgt Ion:	166	Resp:	73800
Ion Ratio	Lower	Upper	
166	100		
165	98.1	79.8	119.8
167	13.6	10.6	16.0





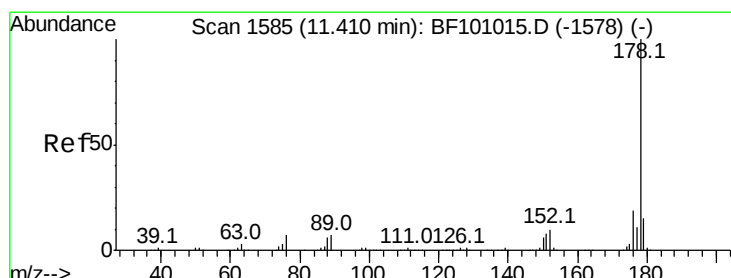
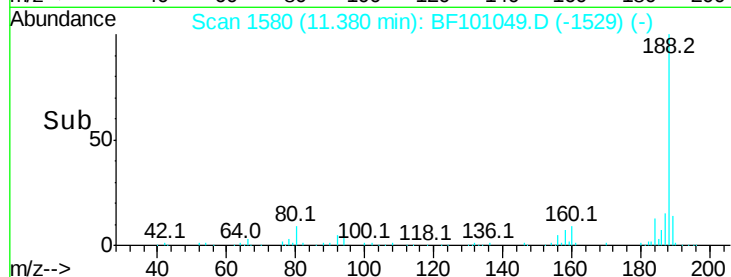
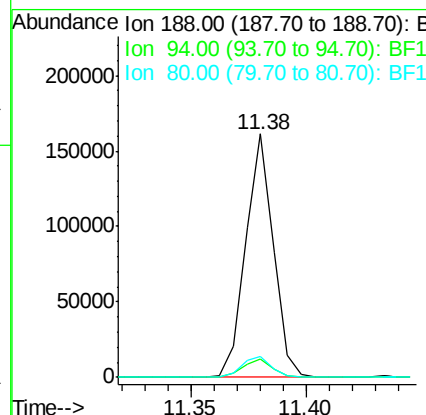
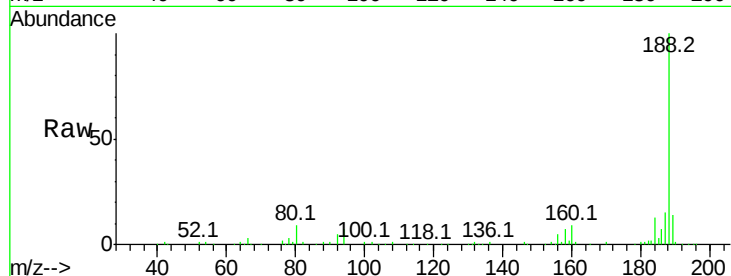
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.4	8.5	12.7#
80	8.6	9.2	13.8#

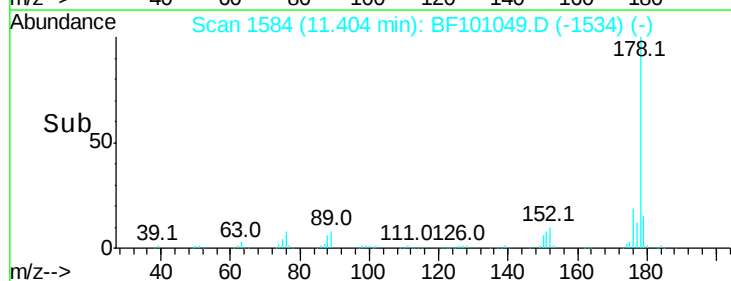
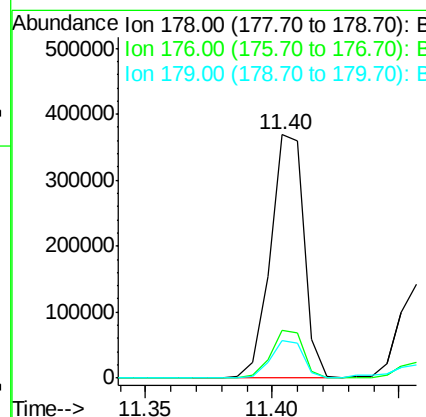
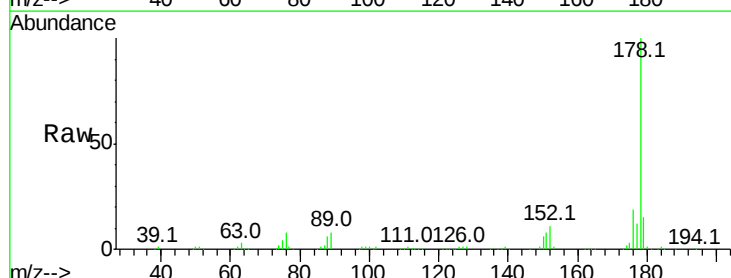
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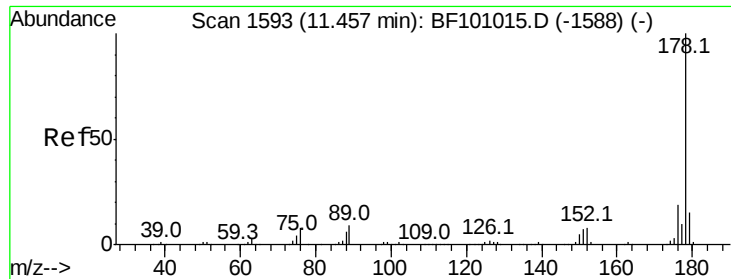
Sohil
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#70
Phenanthrene
Concen: 46.016 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.4	13.0	19.6





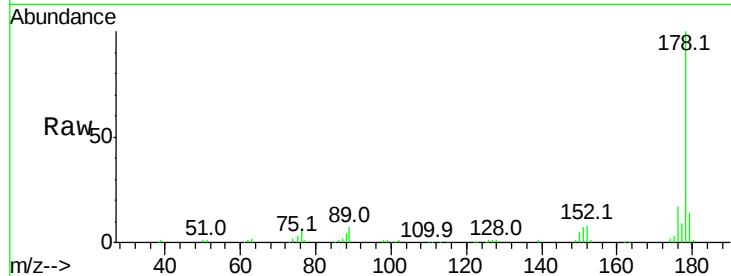
#71
 Anthracene
 Concen: 15.192 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: BF101049.D
 Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	16.8	15.4	23.2
179	14.4	12.6	19.0

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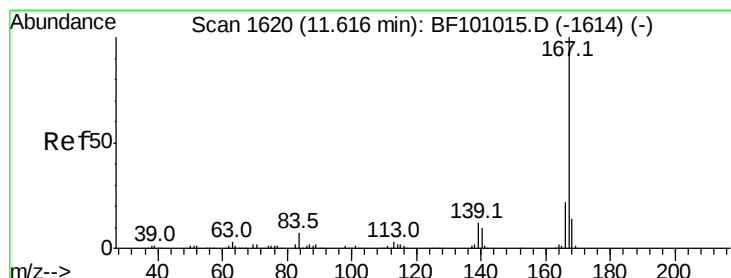
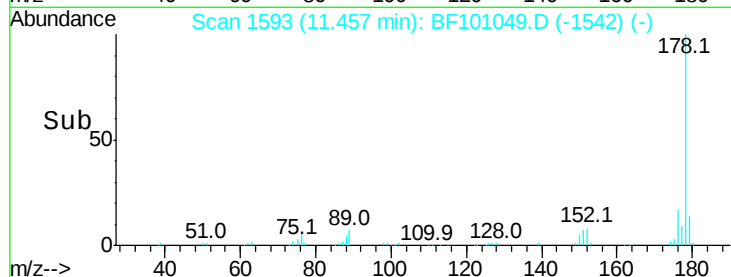
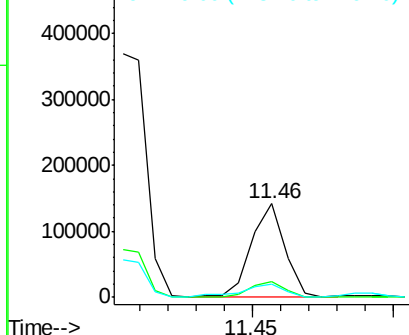


Abundance

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: 3.030 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF101049.D
 Acq: 1 Dec 2017 7:16

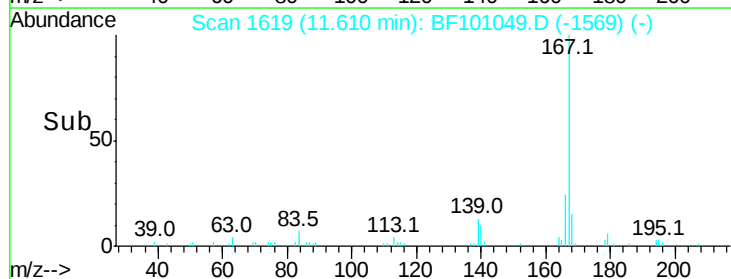
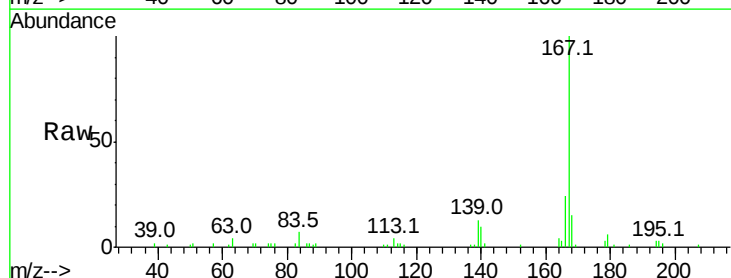
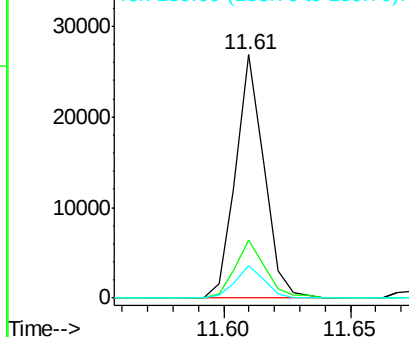
Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.7	17.6	26.4
139	13.3	10.9	16.3

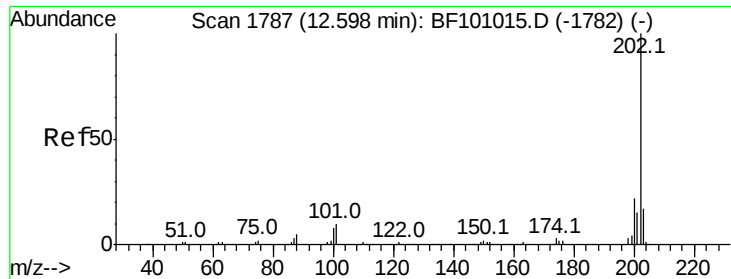
Abundance

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: 47.039 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Instrument :

BNA_F

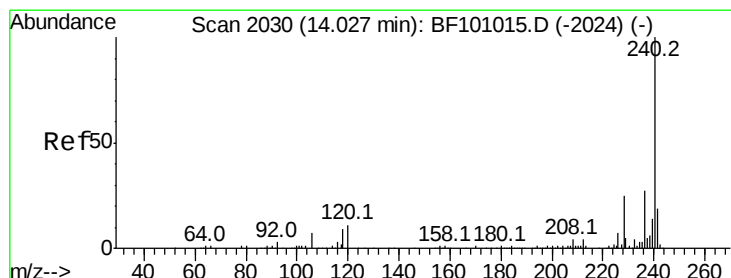
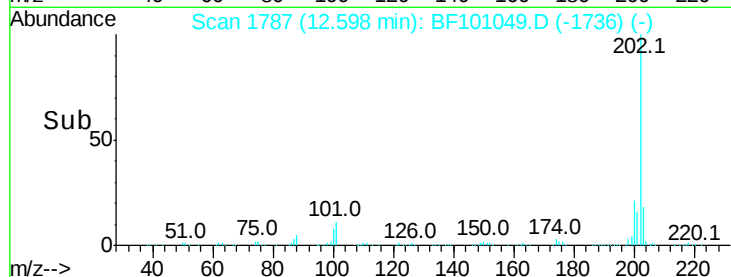
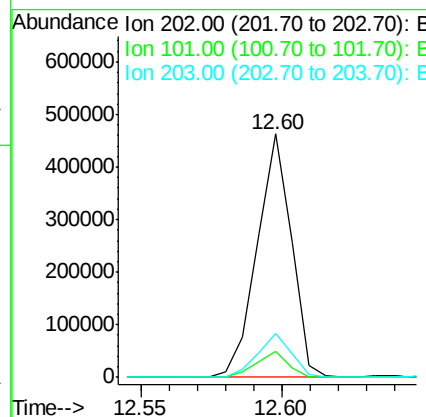
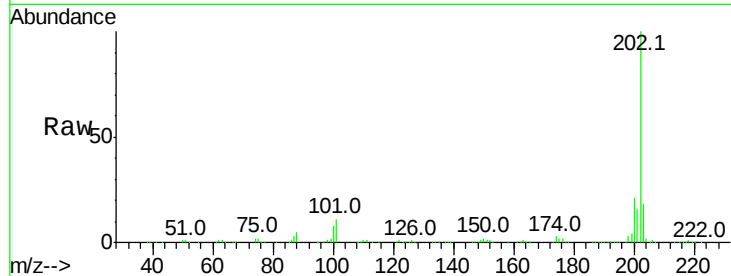
ClientSampleId :

CL-02-112817-BDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.8	0.0	34.1
203	18.0	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

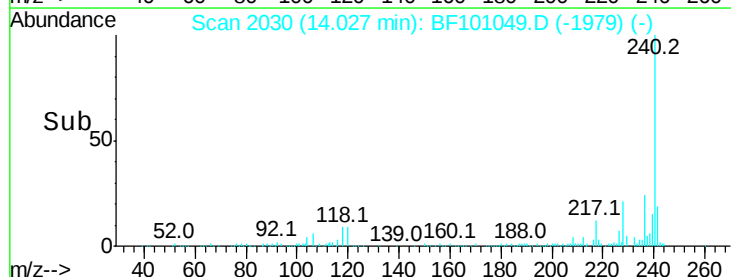
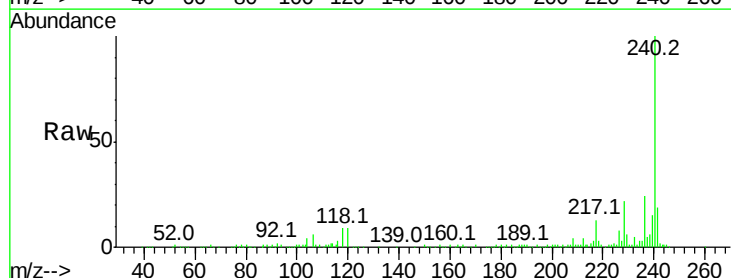
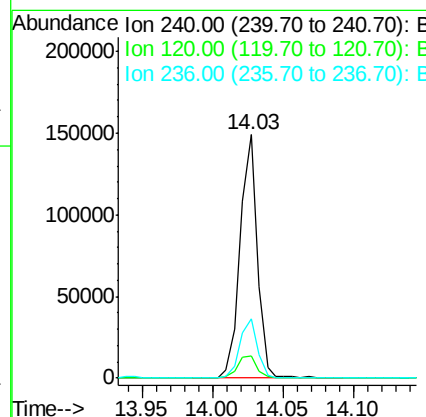
RT: 14.03 min Scan# 2030

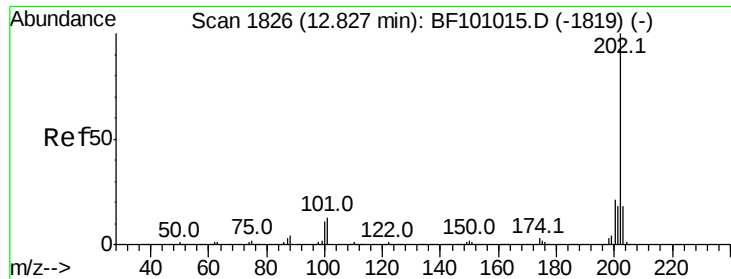
Delta R.T. 0.00 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.0	9.5	14.3#
236	24.3	20.7	31.1





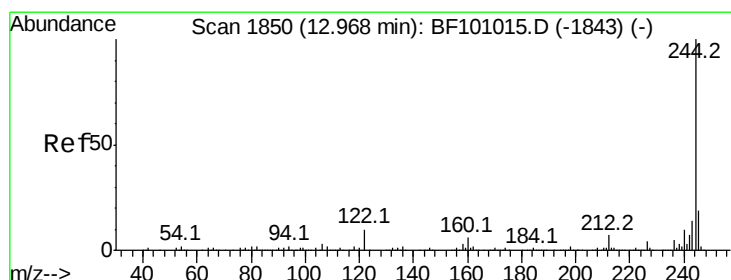
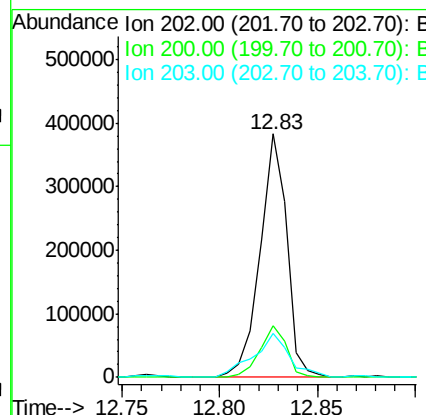
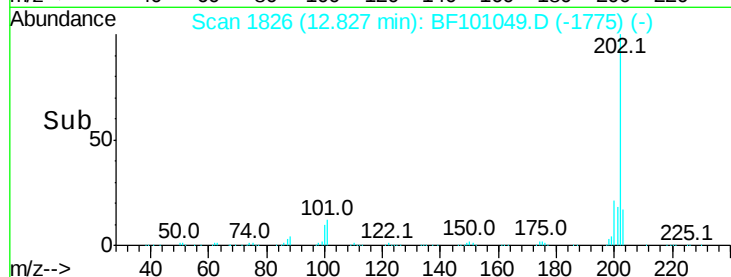
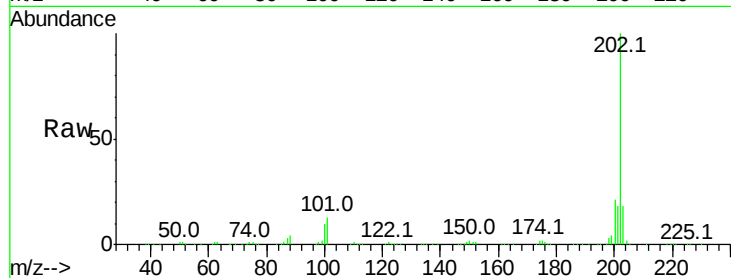
#77
Pvrene
Concen: 41.480 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.8	14.3	21.5

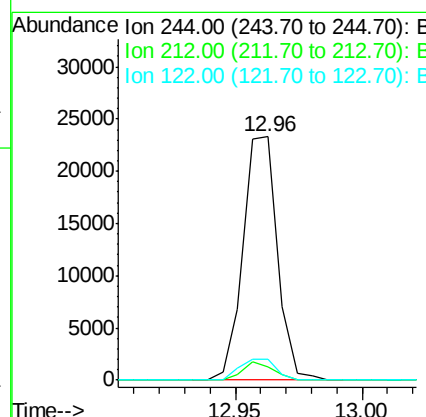
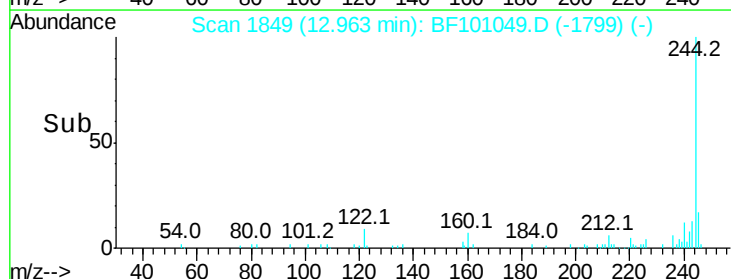
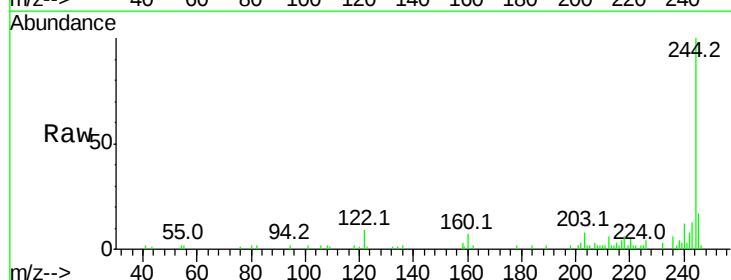
Manual Integrations
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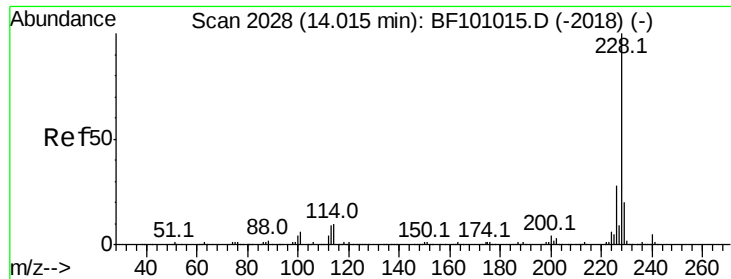
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#78
Terphenyl-d14
Concen: 3.765 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	5.6	5.4	8.0
122	8.5	11.0	16.4#





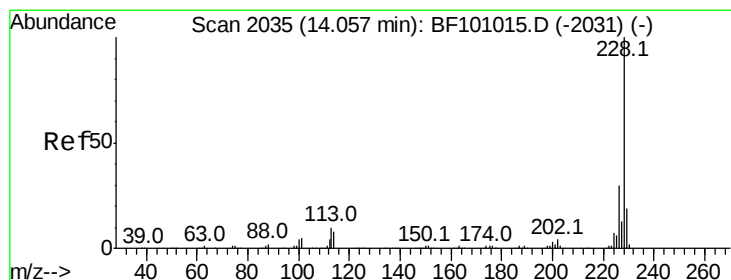
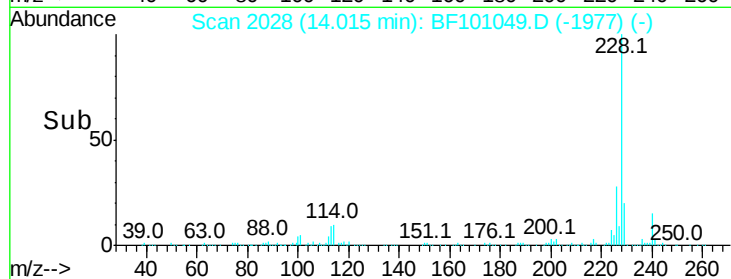
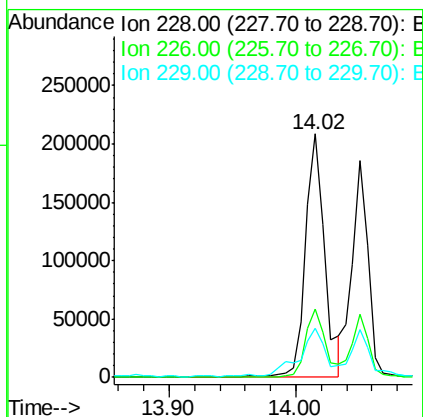
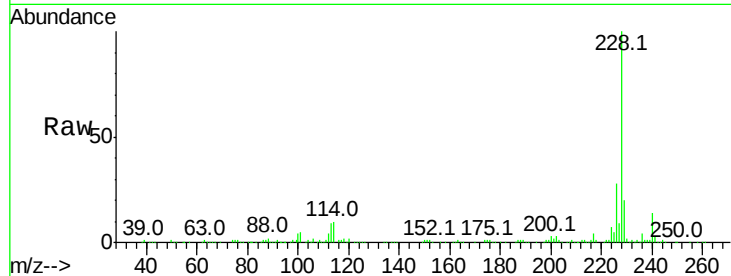
#80
Benzo(a)anthracene
Concen: 27.259 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Resp	Lower	Upper
228	100	218588		
226	28.1		22.6	33.8
229	20.3		15.8	23.6

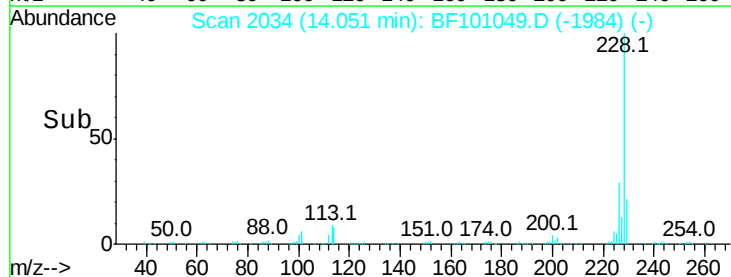
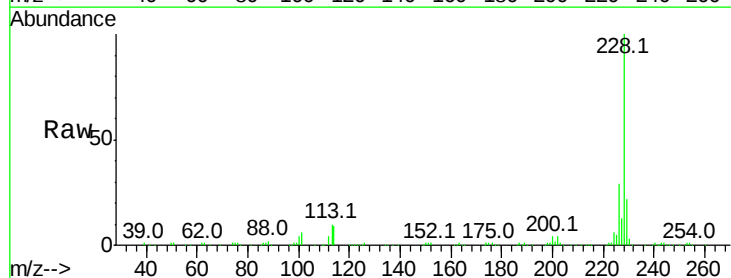
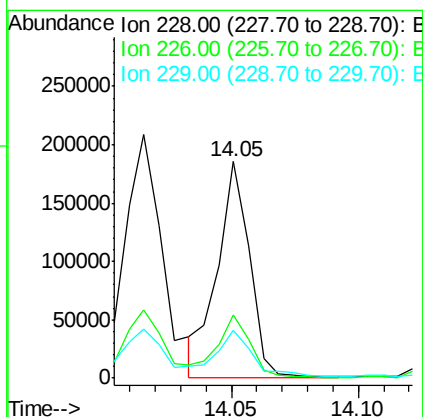
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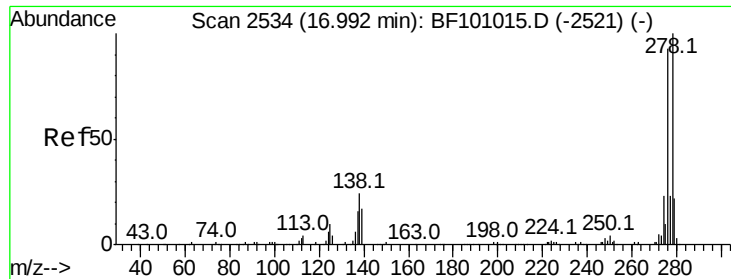
Sohil
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#82
Chrysene
Concen: 21.966 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	163590		
226	29.3		25.0	37.6
229	22.3		16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.260 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Instrument :

BNA_F

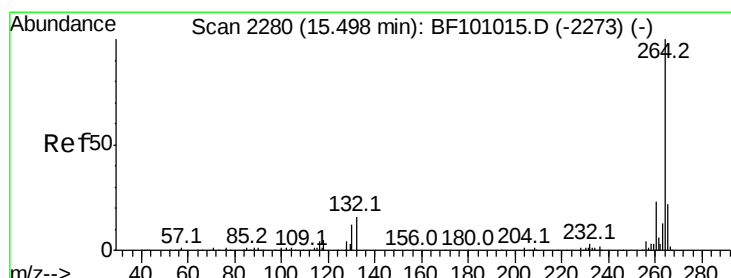
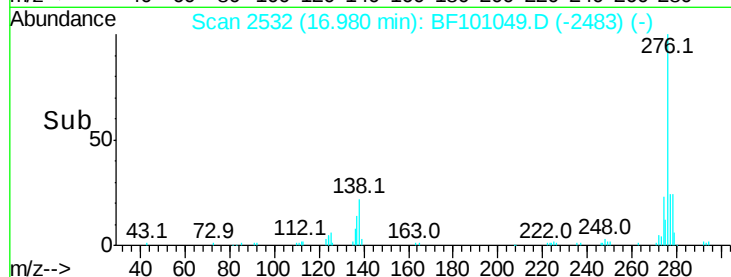
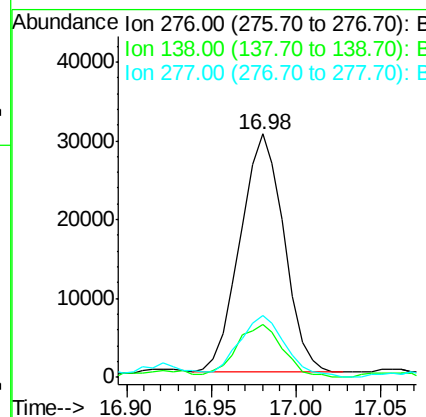
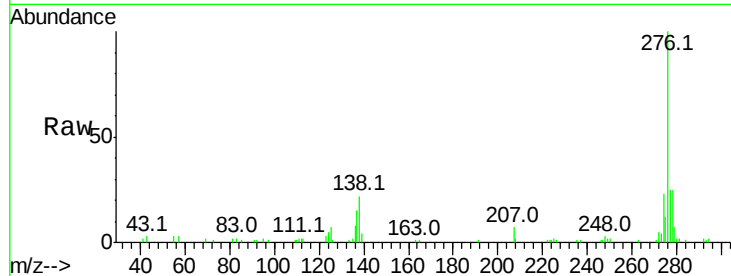
ClientSampleId :

CL-02-112817-BDL

Tot Ion:	276	Resp:	54689
Ion Ratio	Lower	Upper	
276	100		
138	23.9	25.0	37.6#
277	27.6	20.1	30.1

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#86

Perylene-d12

Concen: 20.000 ng

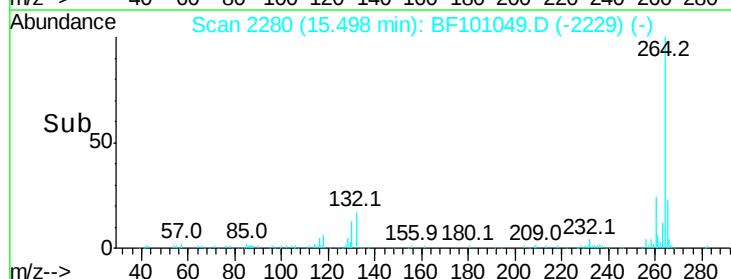
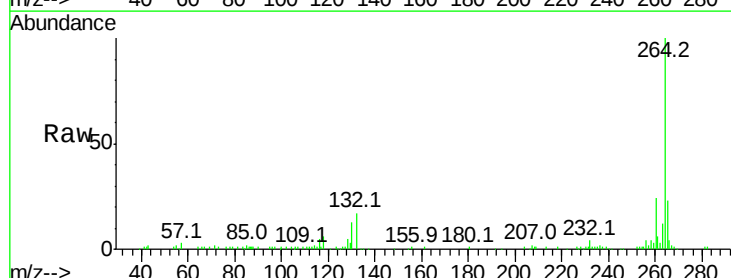
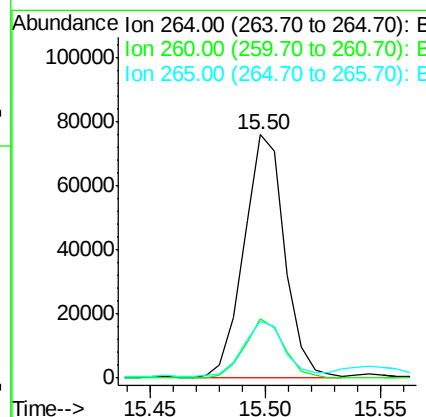
RT: 15.50 min Scan# 2280

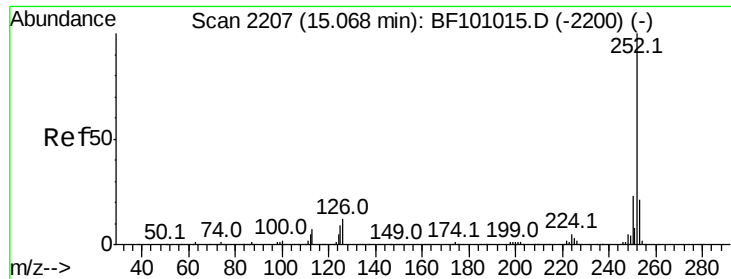
Delta R.T. 0.00 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Tgt Ion:	264	Resp:	94288
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.2	28.8
265	23.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 30.071 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Instrument :

BNA_F

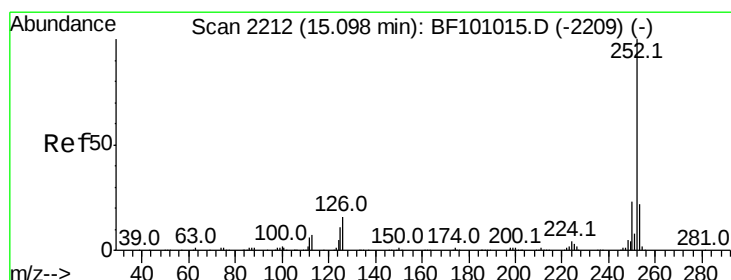
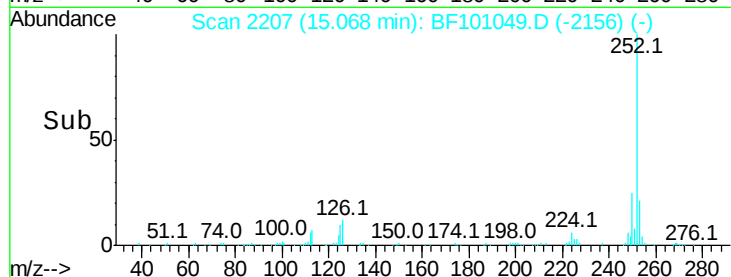
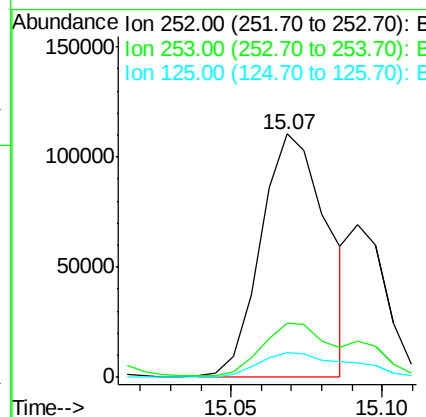
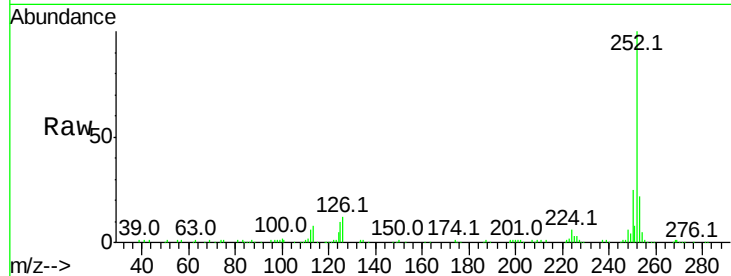
ClientSampleId :

CL-02-112817-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	10.1	9.0	13.6

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 10.511 ng m

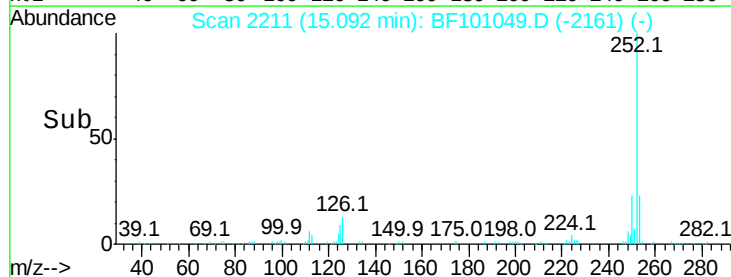
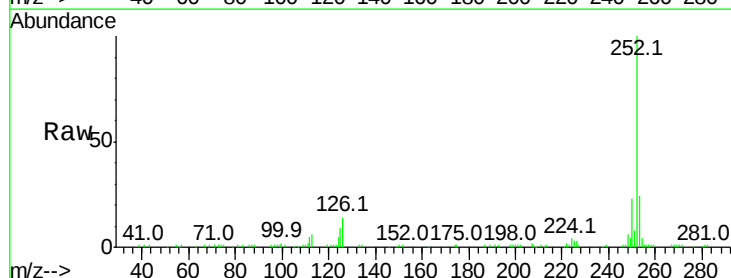
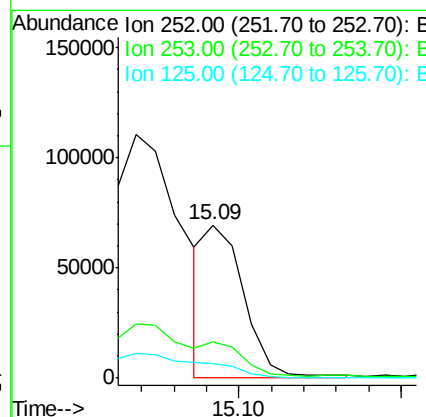
RT: 15.09 min Scan# 2211

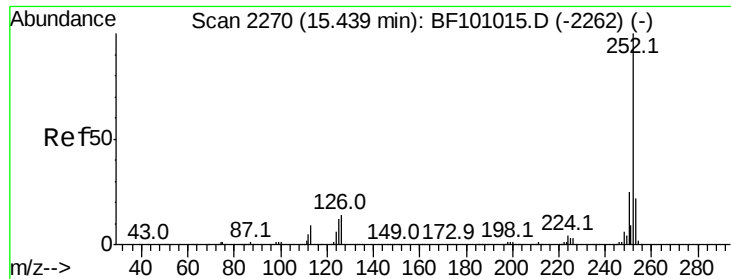
Delta R.T. -0.01 min

Lab File: BF101049.D

Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	9.2	10.2	15.2#





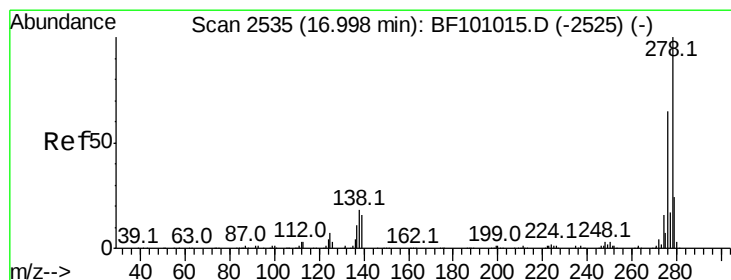
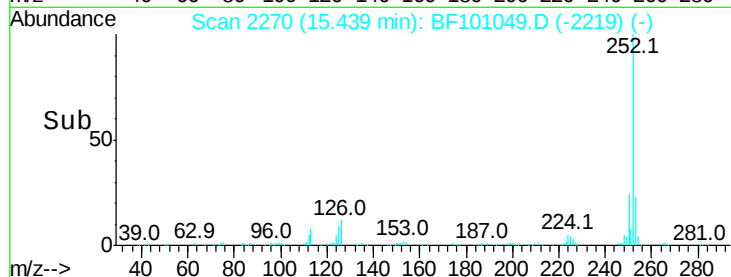
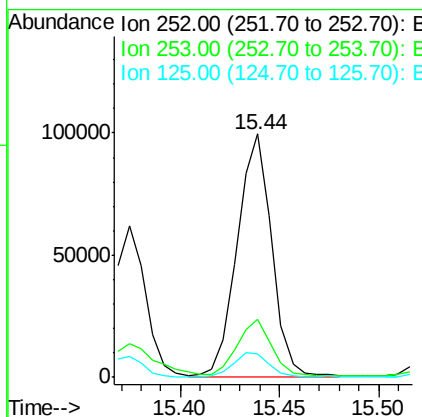
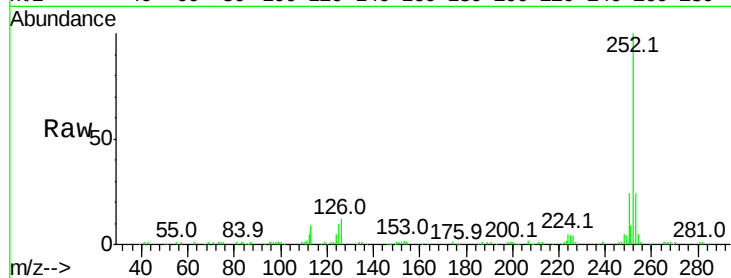
#89
Benzo(a)pyrene
Concen: 23.819 ng m
RT: 15.44 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.7	17.1	25.7
125	9.6	9.8	14.6

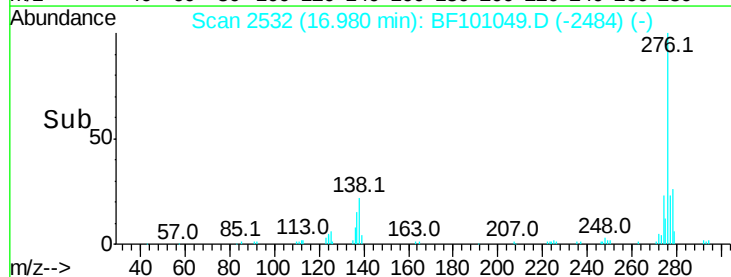
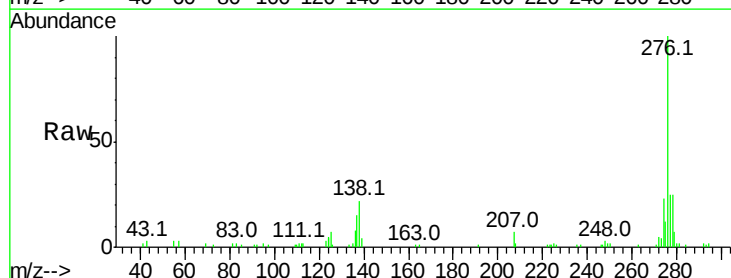
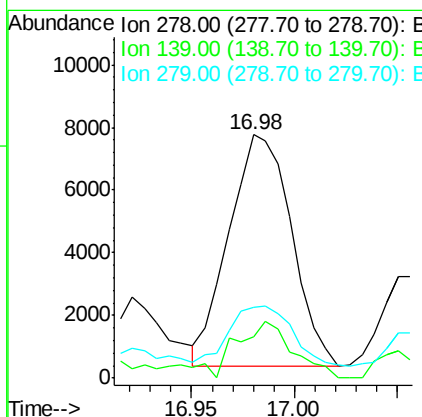
Manual Integrations
APPROVED

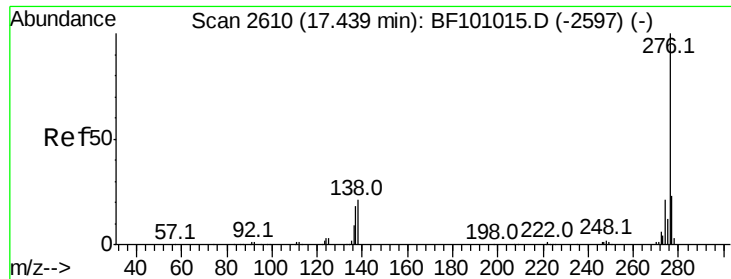
Sohil
12/1/2017 11:13:23 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.461 ng m
RT: 16.98 min Scan# 2532
Delta R.T. -0.02 min
Lab File: BF101049.D
Acq: 1 Dec 2017 7:16

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	17.1	15.9	23.9
279	29.1	19.0	28.4





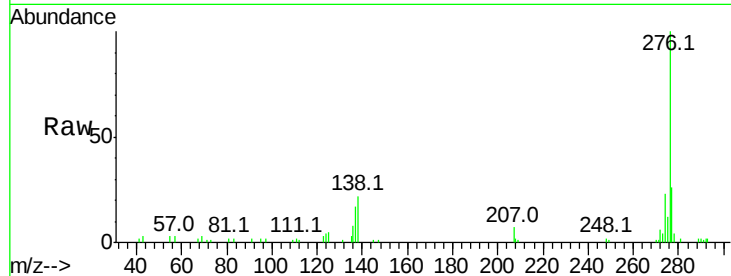
#91
 Benzo(a,h,i)perylene
 Concen: 12.607 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. -0.01 min
 Lab File: BF101049.D
 Acq: 1 Dec 2017 7:16

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.5	17.9	26.9
138	21.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/1/2017 11:13:23 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

