

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101483.D
 Acq On : 18 Dec 2017 16:25
 Operator : SJ/JU
 Sample : I6680-13 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-B

Manual Integrations
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Quant Time: Dec 19 05:51:36 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	190742	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	690972	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	278600	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	434187	20.00	ng	0.00
75) Chrysene-d12	14.00	240	261551	20.00	ng	0.02
86) Perylene-d12	15.47	264	267361	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	616910	48.18	ng	0.00
7) Phenol-d6	6.45	99	726171	45.57	ng	0.00
23) Nitrobenzene-d5	7.37	82	426046	34.32	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	115788	43.13	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	705407	39.28	ng	0.00
78) Terphenyl-d14	12.92	244	479222	44.17	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	851212	24.470	ng	99
32) Benzoic acid	7.90	122	4833	8.558	ng	# 45
37) 2-Methylnaphthalene	8.80	142	524881	23.159	ng	100
45) 1,1'-Biphenyl	9.27	154	103309	4.181	ng	97
48) Acenaphthylene	9.71	152	610759	20.454	ng	97
49) Dimethylphthalate	9.56	163	54353	2.425	ng	98
51) Acenaphthene	9.88	154	399893	22.291	ng	98
54) Dibenzofuran	10.06	168	495953	21.754	ng	98
57) Fluorene	10.40	166	928092	48.121	ng	98
65) n-Nitrosodiphenylamine	10.50	169	34551	2.155	ng	# 51
70) Phenanthrene	11.39	178	3349961	138.739	ng	99
71) Anthracene	11.43	178	1267973	51.409	ng	100
72) Carbazole	11.57	167	391719	16.963	ng	99
74) Fluoranthene	12.58	202	3127935	123.417	ng	97
77) Pyrene	12.81	202	3145687	160.254	ng	97
80) Benzo(a)anthracene	13.99	228	1757111	101.740	ng	94
82) Chrysene	14.03	228	1518117	93.098	ng	98
85) Indeno(1,2,3-cd)pyrene	16.97	276	662910	45.652	ng	# 91
87) Benzo(b)fluoranthene	15.05	252	1607285m	98.629	ng	
88) Benzo(k)fluoranthene	15.07	252	446060m	28.152	ng	
89) Benzo(a)pyrene	15.42	252	1184850	78.870	ng	96
90) Dibenz(a,h)anthracene	16.96	278	187465m	14.534	ng	
91) Benzo(g,h,i)perylene	17.42	276	639130	50.041	ng	93

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

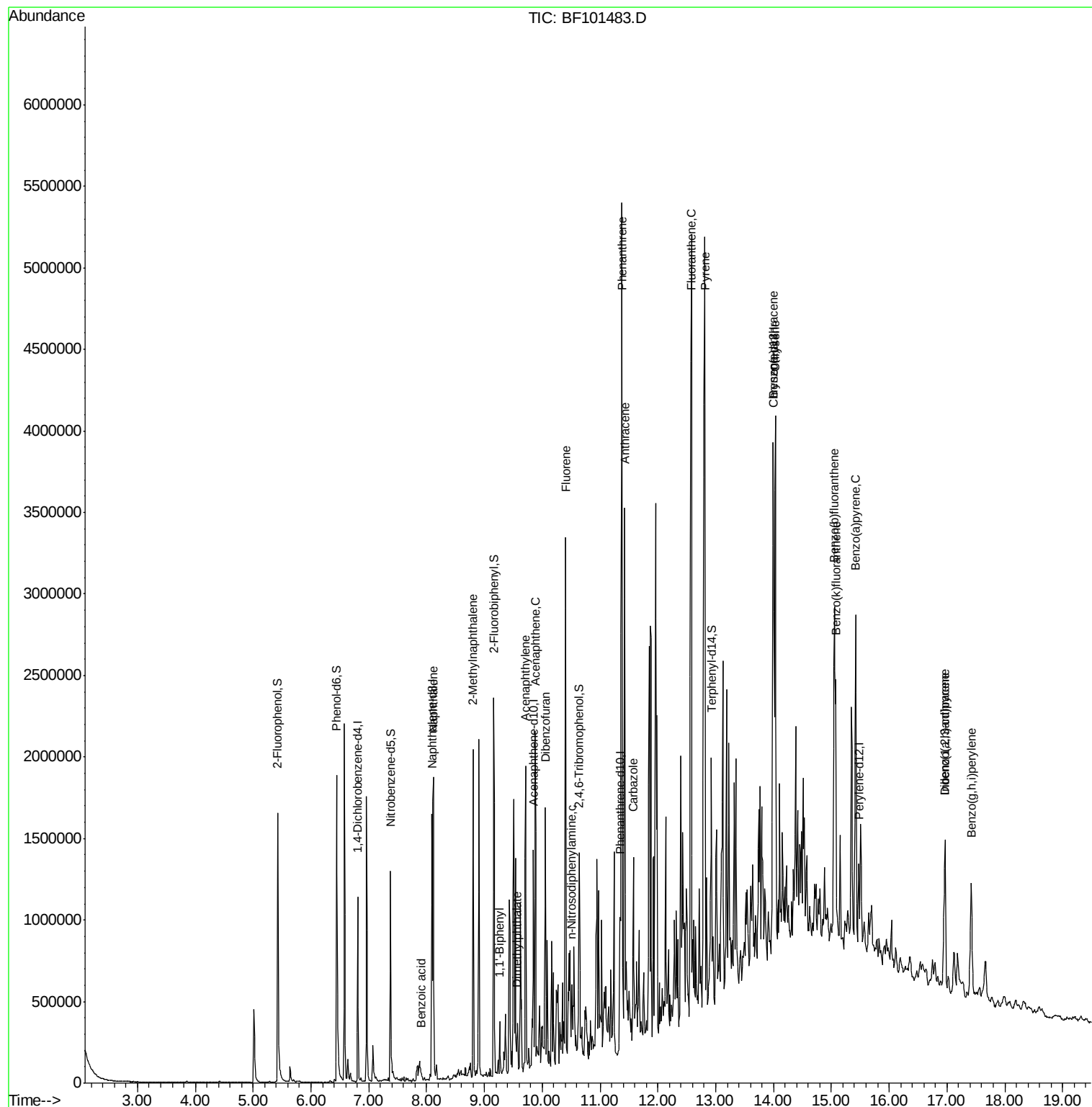
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
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ALS Vial : 12 Sample Multiplier: 1

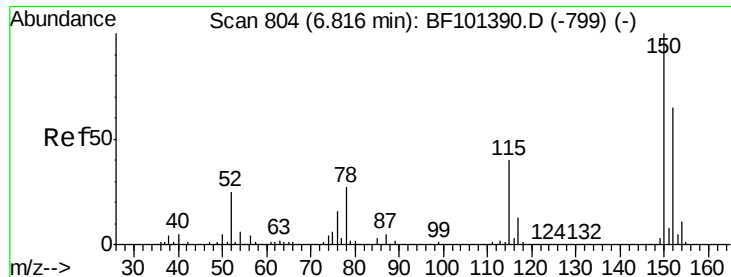
Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Quant Time: Dec 19 05:51:36 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 18 15:38:59 2017
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#1

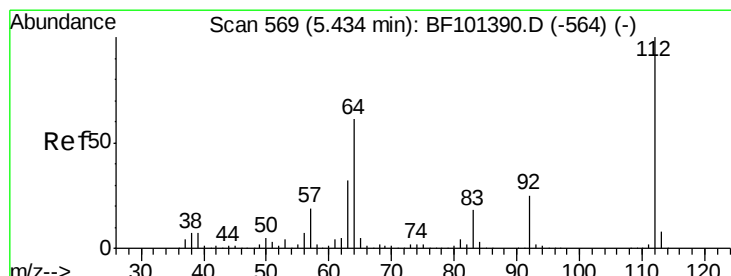
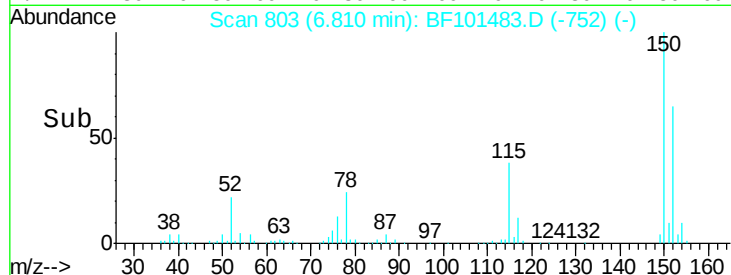
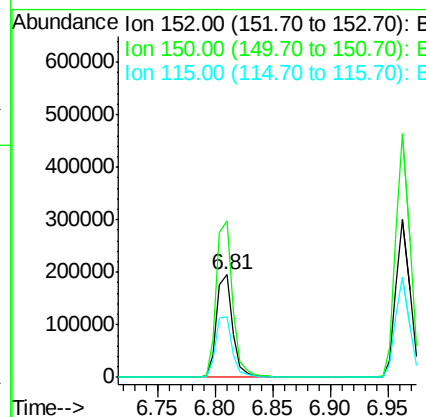
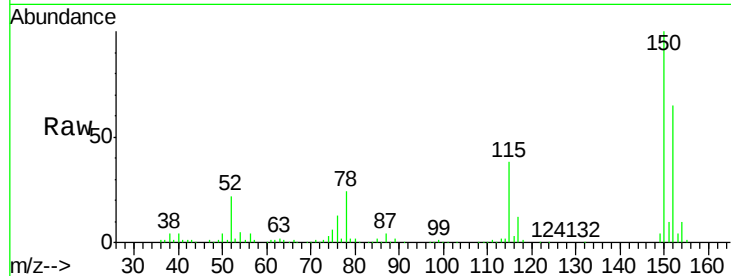
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.6	186.8
115	58.5	50.1	75.1

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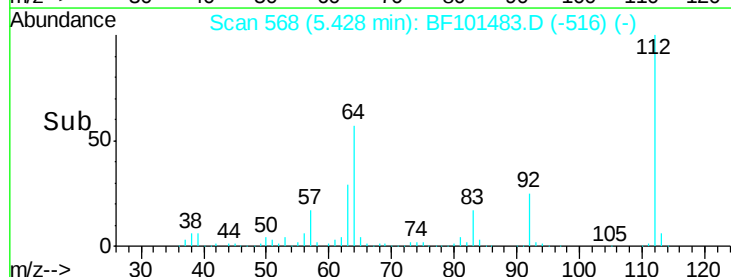
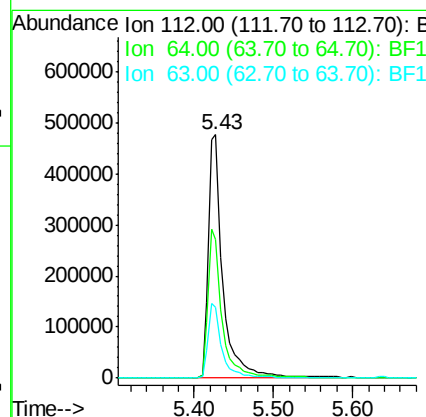
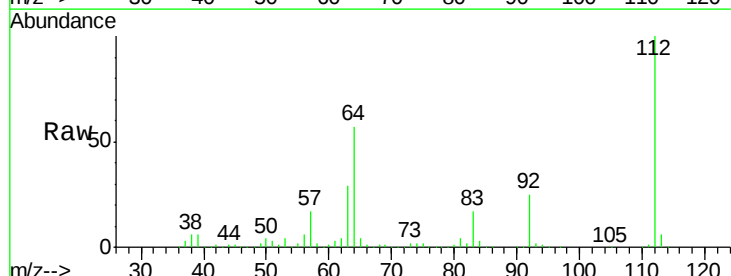
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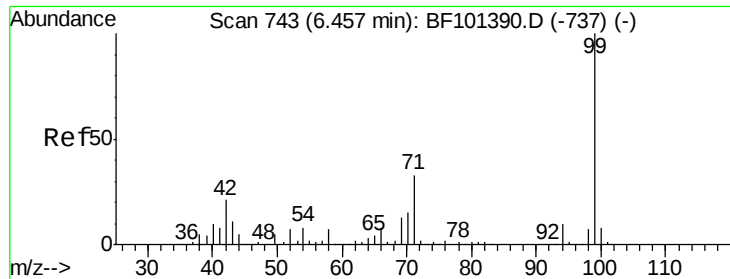


#5

2-Fluorophenol
Concen: 48.177 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	47.9	71.9
63	29.4	23.7	35.5





#7

Phenol-d6

Concen: 45.567 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

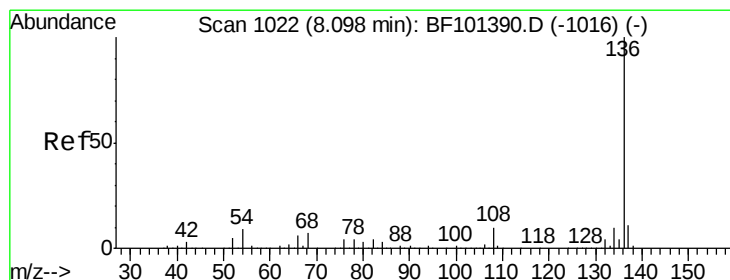
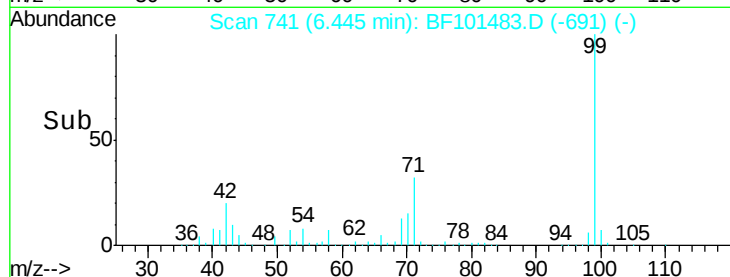
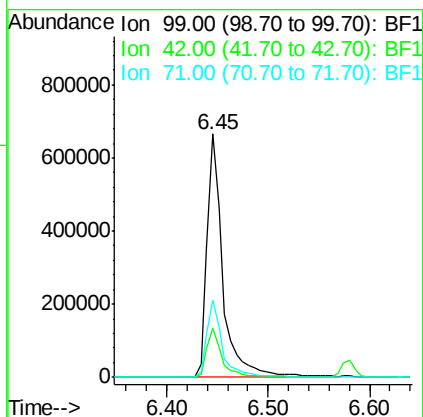
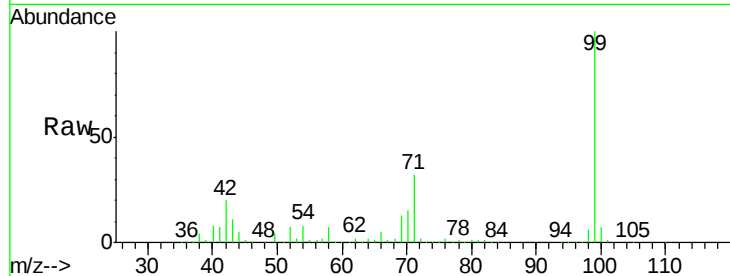
ClientSampleId :

CL-02-121417-B

Tgt Ion:	99	Resp:	726171
Ion	Ratio	Lower	Upper
99	100		
42	20.0	14.5	21.7
71	31.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

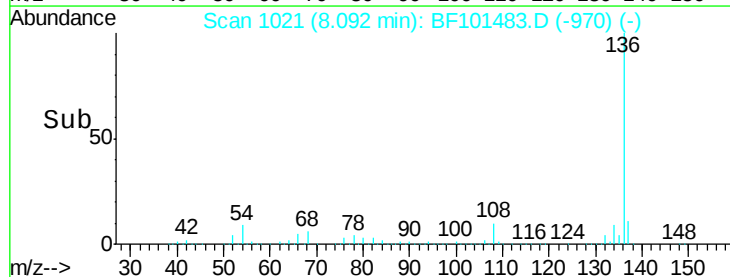
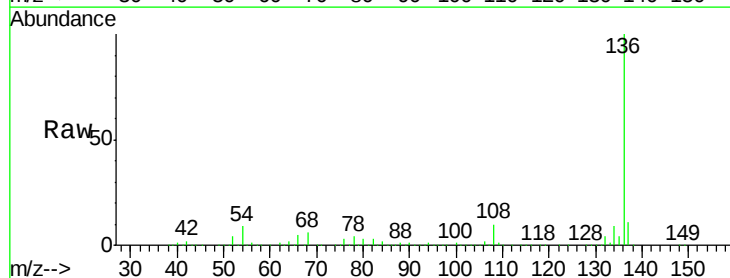
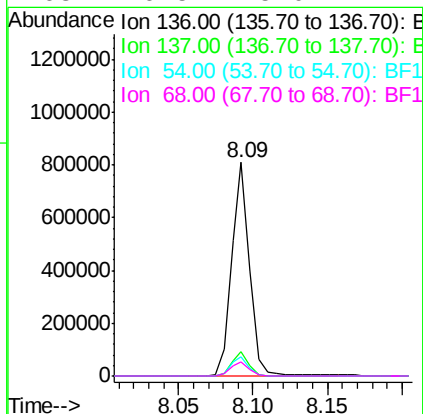
RT: 8.09 min Scan# 1021

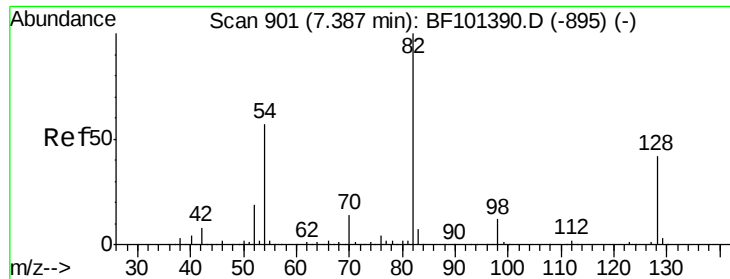
Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Tgt Ion:	136	Resp:	690972
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.7	6.6	9.8
68	6.5	5.0	7.4





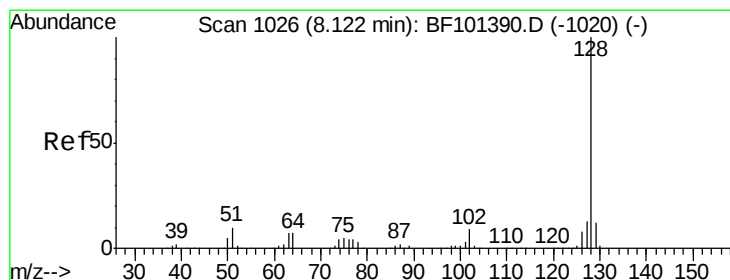
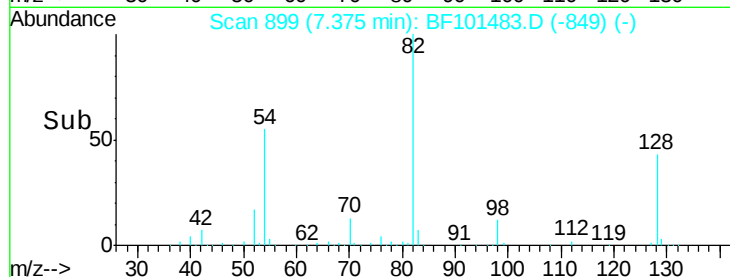
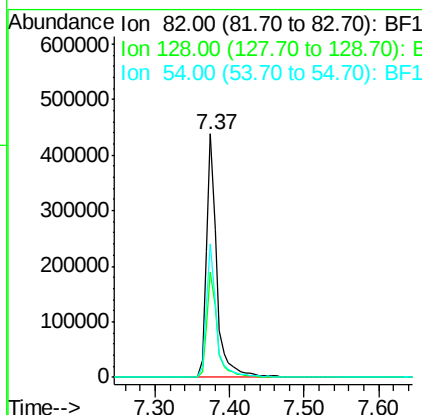
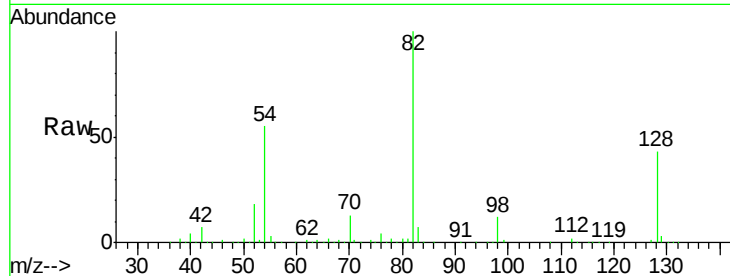
#23
Nitrobenzene-d5
Concen: 34.323 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	426046		
128	43.4	36.1	54.1	
54	54.8	41.4	62.2	

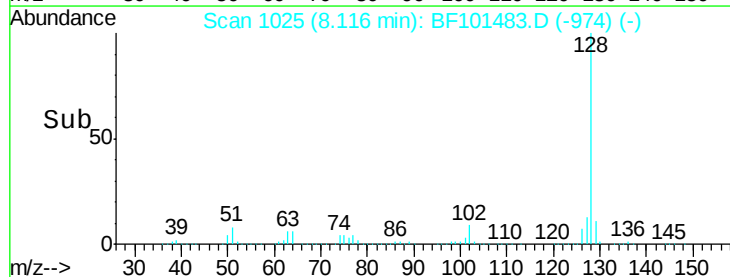
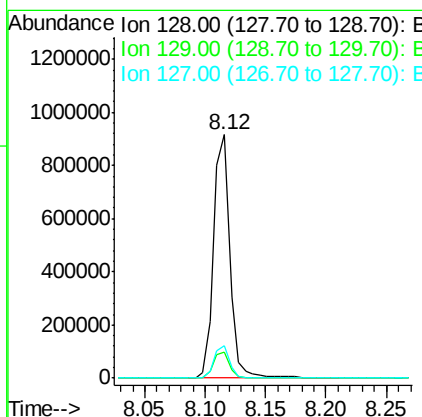
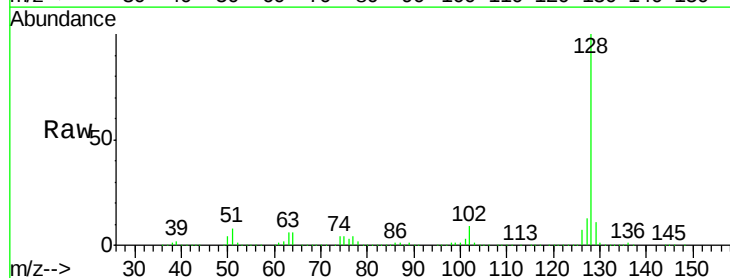
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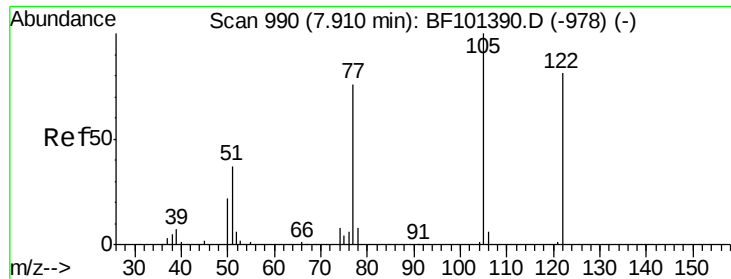
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#31
Naphthalene
Concen: 24.470 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	851212		
129	10.7	8.8	13.2	
127	13.1	10.9	16.3	





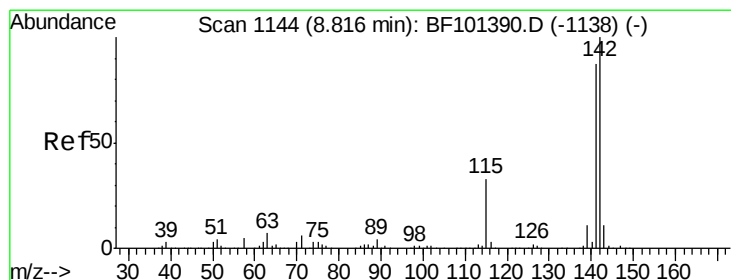
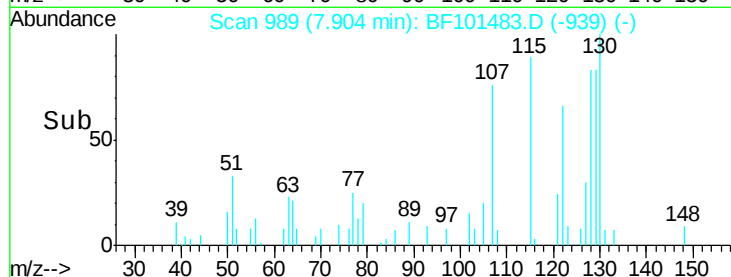
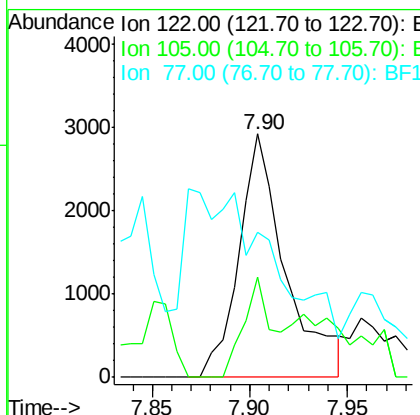
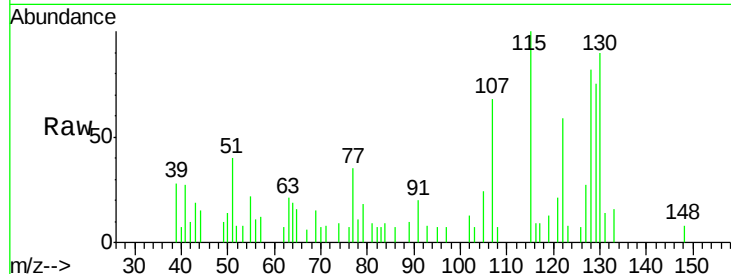
#32
Benzoic acid
Concen: 8.558 ng
RT: 7.90 min Scan# 989
Delta R.T. -0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion	Ratio	Lower	Upper
122	100		
105	41.2	101.1	141.1#
77	59.3	70.7	110.7#

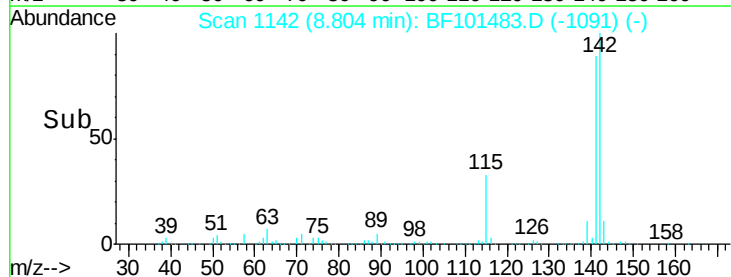
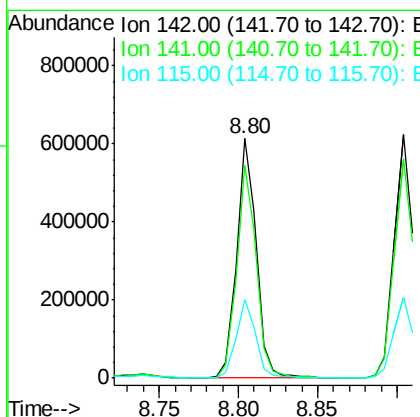
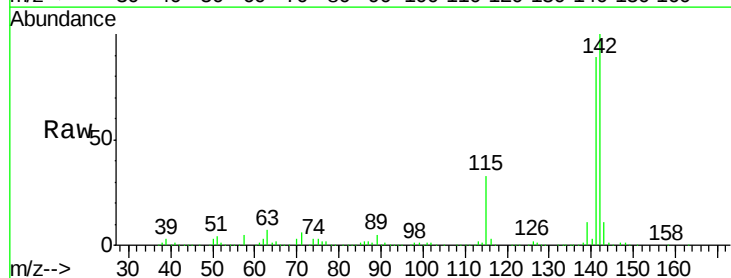
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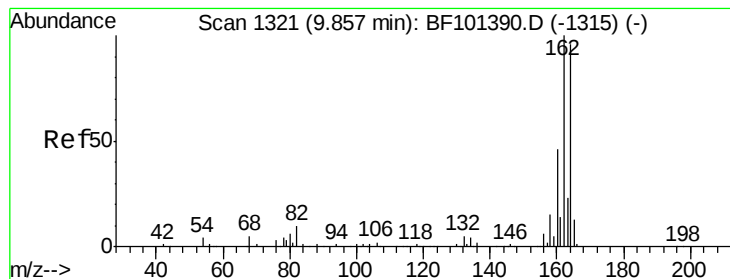
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#37
2-Methylnaphthalene
Concen: 23.159 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	32.7	26.1	39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

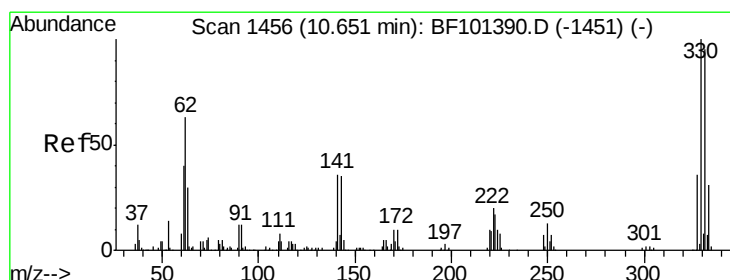
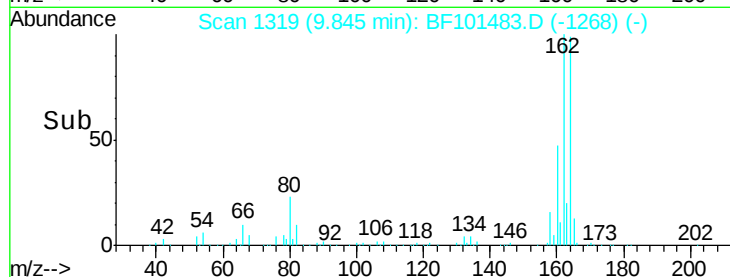
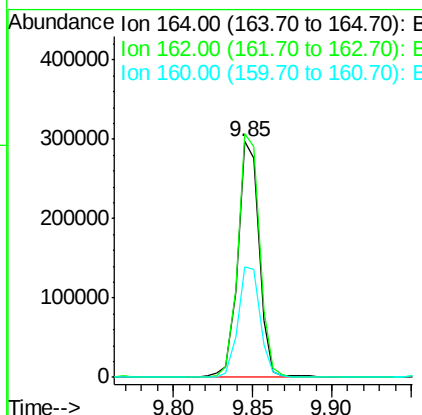
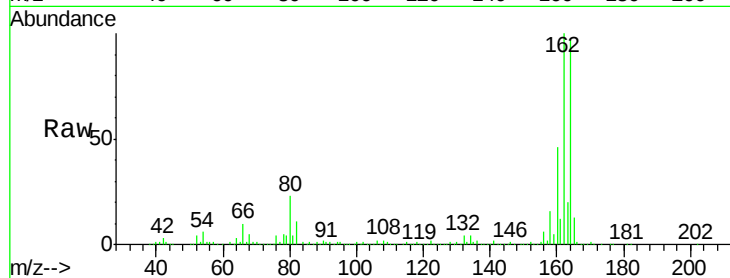
ClientSampleId :

CL-02-121417-B

Tgt Ion:	164	Resp:	278600
Ion Ratio	Lower	Upper	
164	100		
162	103.5	86.1	129.1
160	47.2	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 43.132 ng

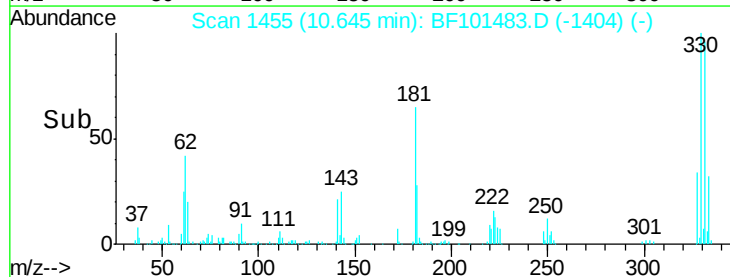
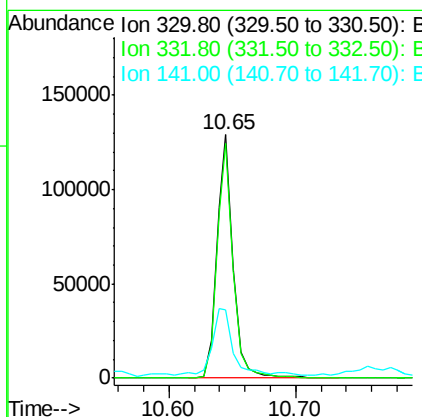
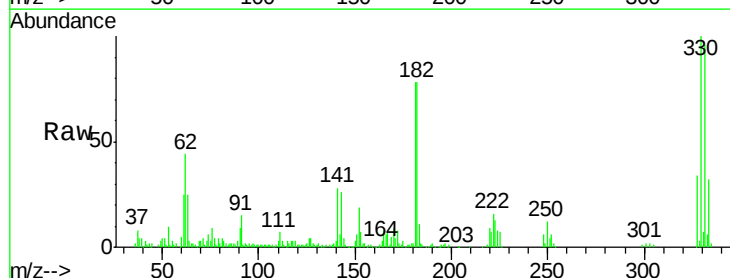
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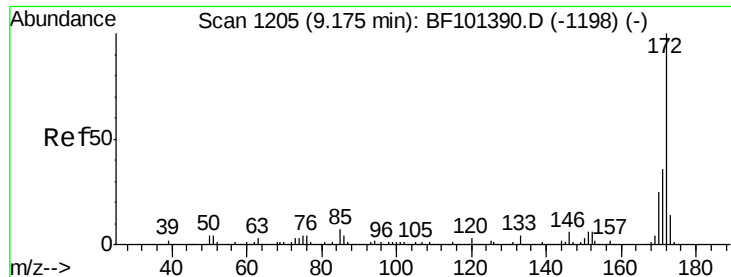
Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Tgt Ion:	330	Resp:	115788
Ion Ratio	Lower	Upper	
330	100		
332	96.3	77.0	115.6
141	33.9	29.9	44.9





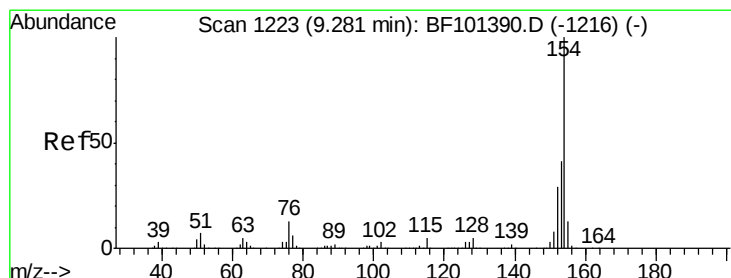
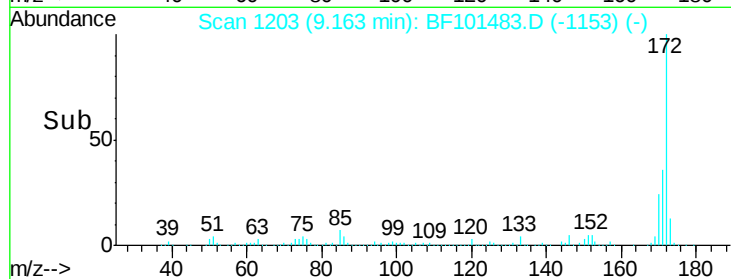
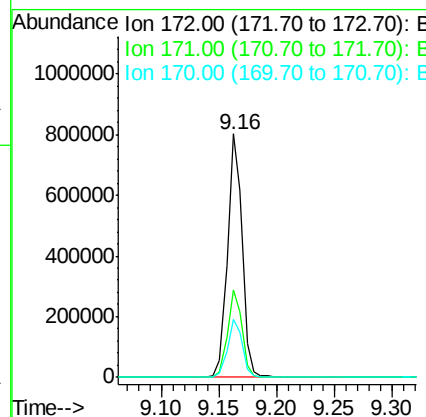
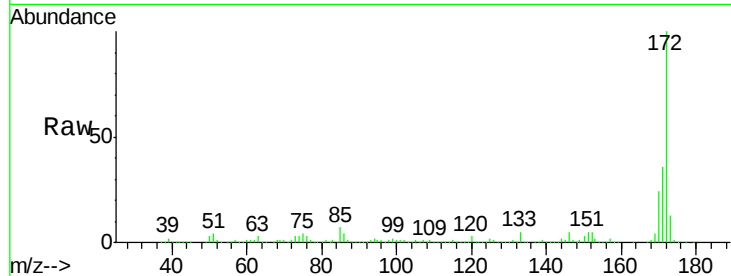
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2-Fluorobiphenyl
Concen: 39.277 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampled :
CL-02-121417-B

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	705407		
171	35.8	29.7	44.5	
170	24.0	19.6	29.4	

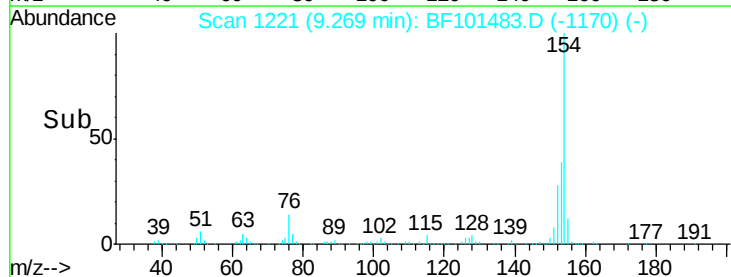
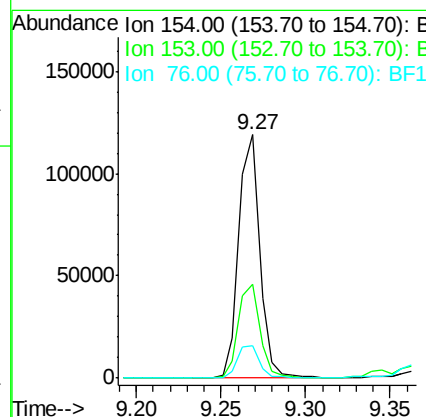
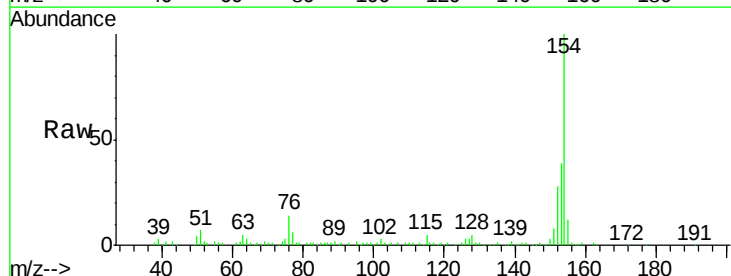
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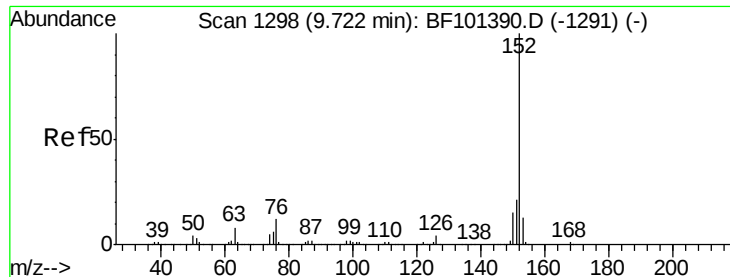
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#45
1,1'-Biphenyl
Concen: 4.181 ng
RT: 9.27 min Scan# 1221
Delta R.T. -0.00 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	103309		
153	38.8	21.3	61.3	
76	13.6	0.0	34.0	





#48

Acenaphthylene

Concen: 20.454 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

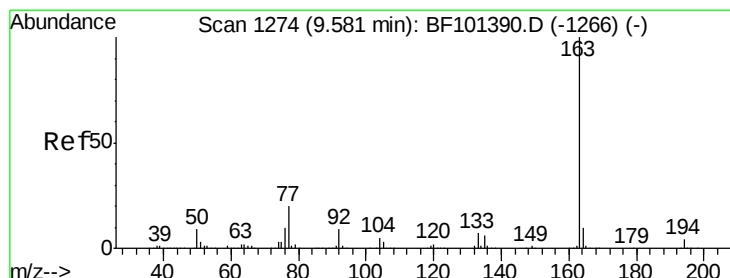
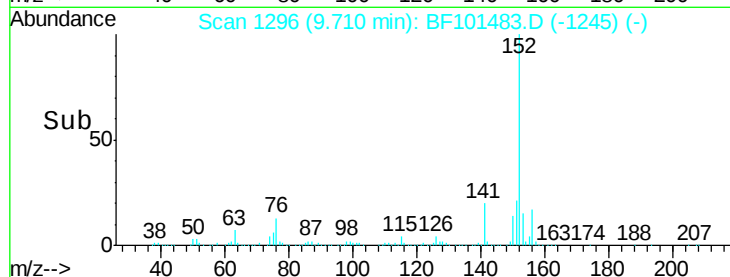
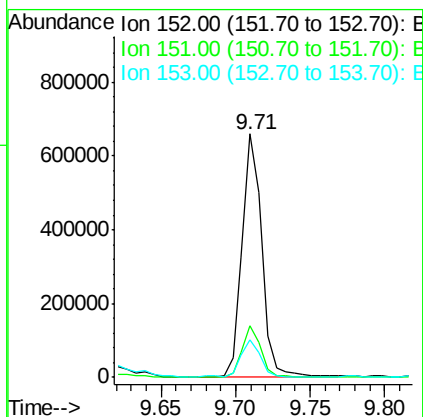
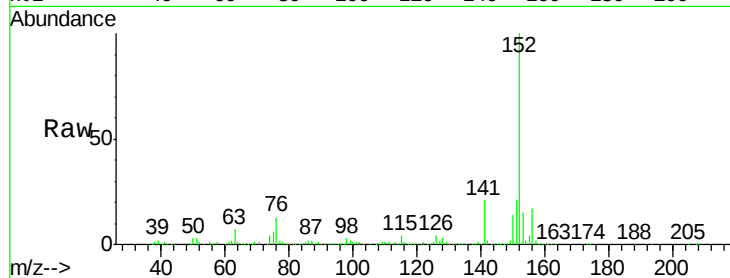
ClientSampleId :

CL-02-121417-B

Tgt Ion:	152	Resp:	610759
Ion Ratio		Lower	Upper
152	100		
151	21.0	16.3	24.5
153	15.5	10.7	16.1

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#49

Dimethylphthalate

Concen: 2.425 ng

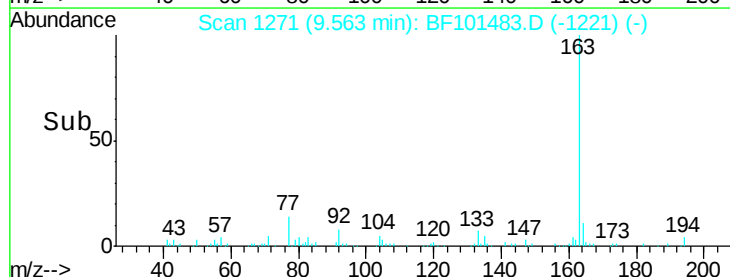
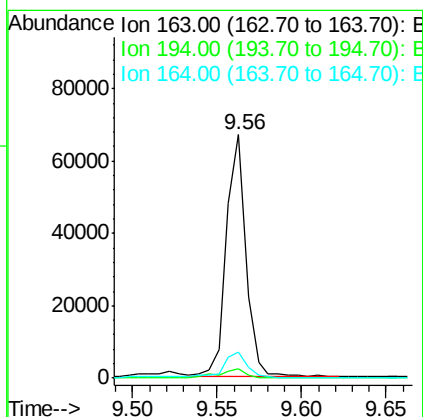
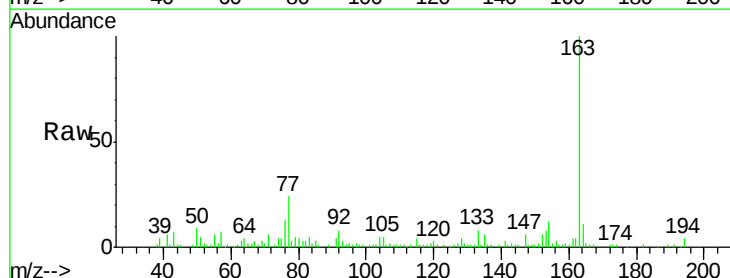
RT: 9.56 min Scan# 1271

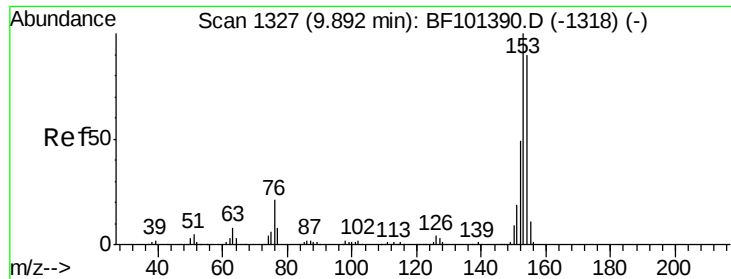
Delta R.T. -0.01 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Tgt Ion:	163	Resp:	54353
Ion Ratio		Lower	Upper
163	100		
194	3.9	2.7	4.1
164	10.9	8.2	12.2





#51

Acenaphthene

Concen: 22.291 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

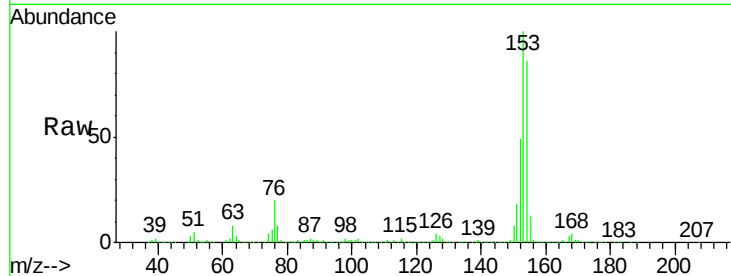
ClientSampleId :

CL-02-121417-B

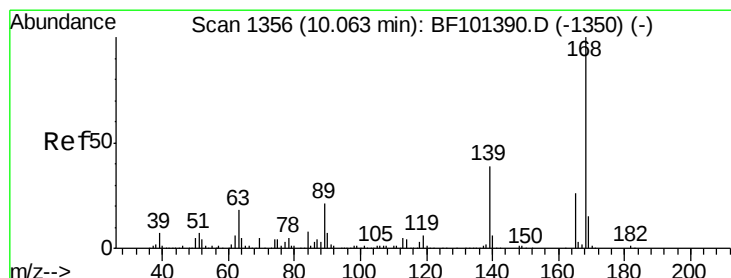
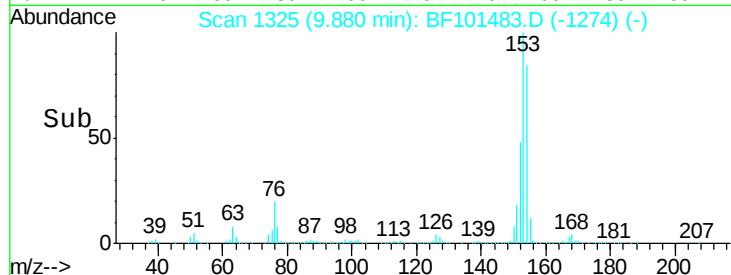
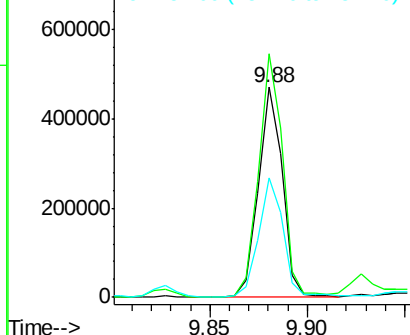
Tgt Ion:	154	Resp:	399893
Ion Ratio	Lower	Upper	
154	100		
153	115.9	91.2	136.8
152	57.0	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 21.754 ng

RT: 10.06 min Scan# 1355

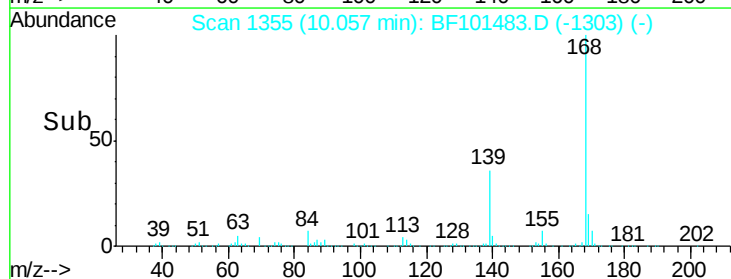
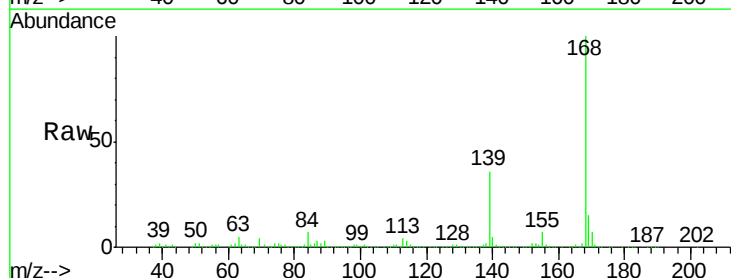
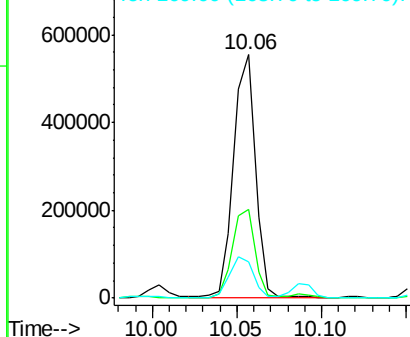
Delta R.T. 0.01 min

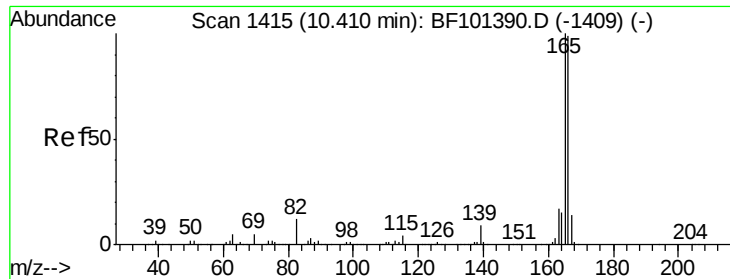
Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Tgt Ion:	168	Resp:	495953
Ion Ratio	Lower	Upper	
168	100		
139	36.4	30.1	45.1
169	15.1	10.9	16.3

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





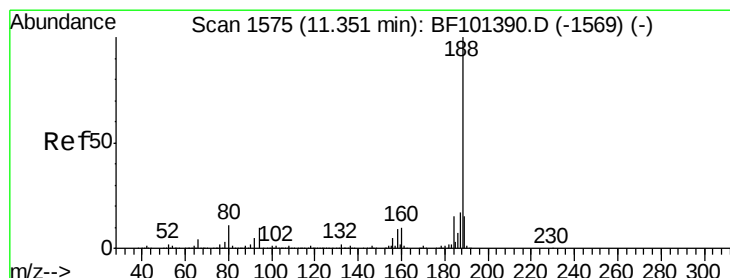
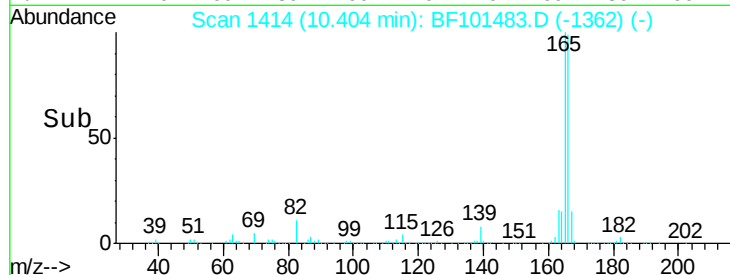
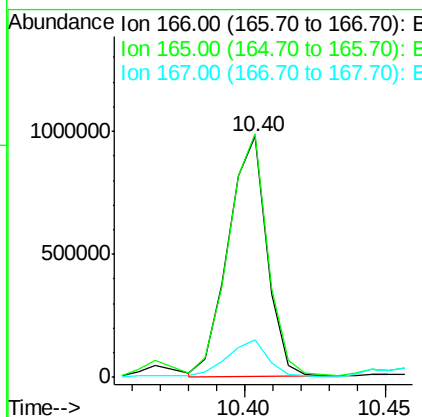
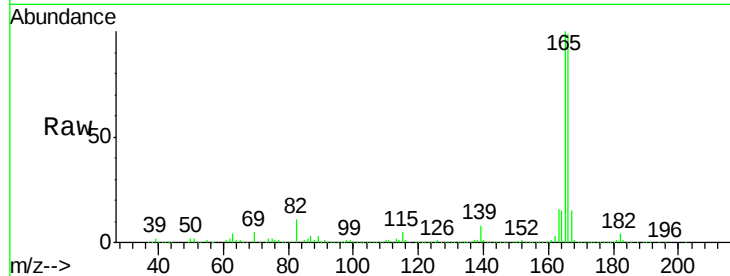
#57
Fluorene
 Concen: 48.121 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. 0.01 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-B

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.1	928092	79.8	119.8
167	15.5		10.6	16.0

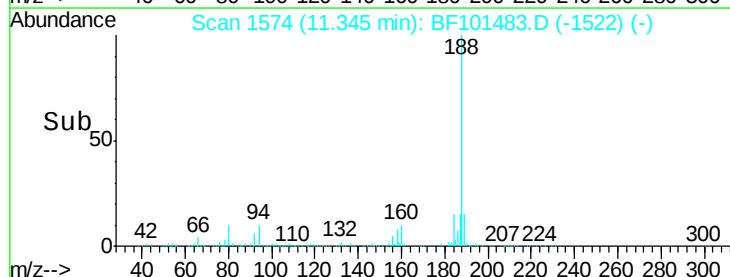
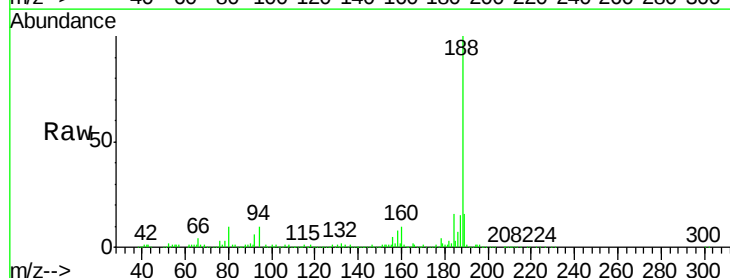
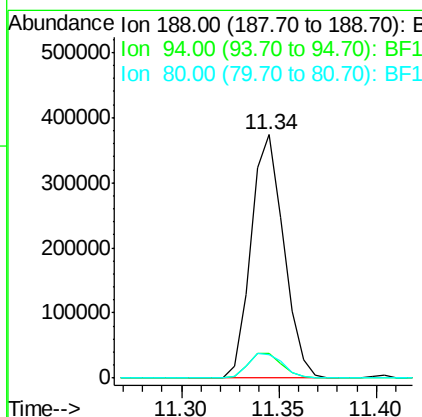
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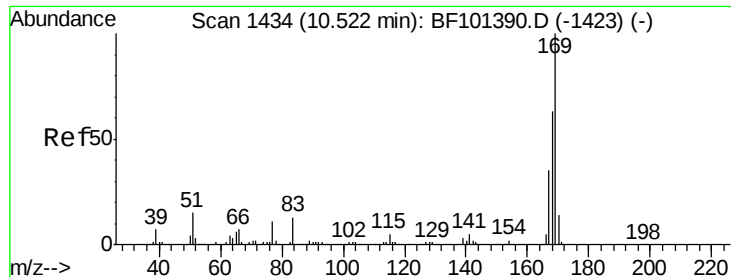
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	434187		
94	10.0		8.5	12.7
80	9.9		9.2	13.8





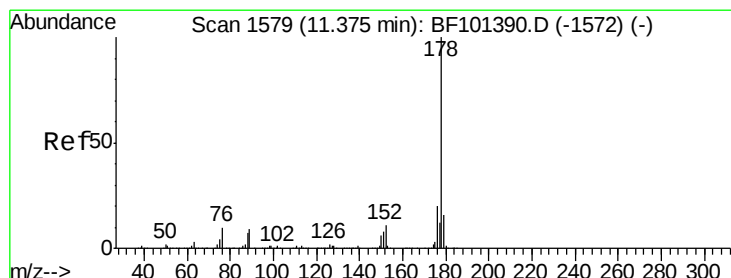
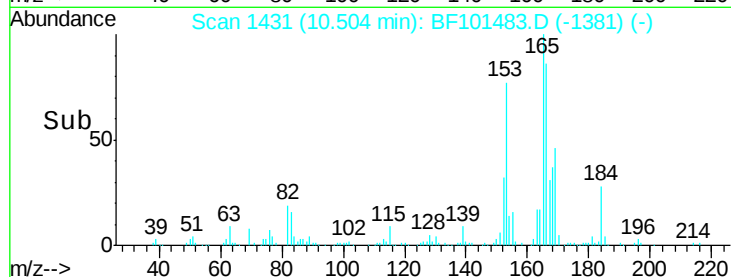
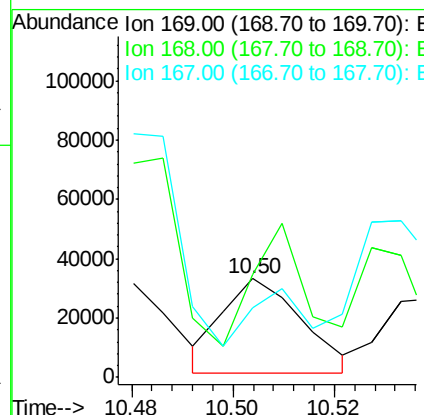
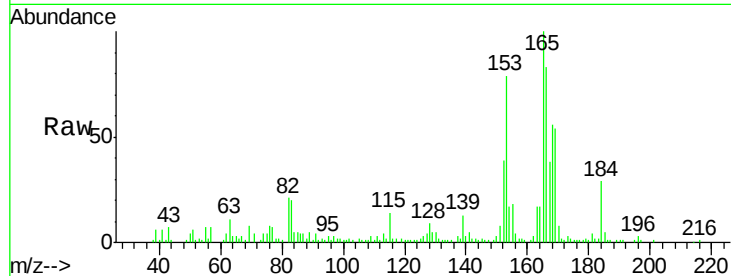
#65
n-Nitrosodiphenylamine
Concen: 2.155 ng
RT: 10.50 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	34551		
168	104.5	54.4	81.6#	
167	70.9	29.8	44.6#	

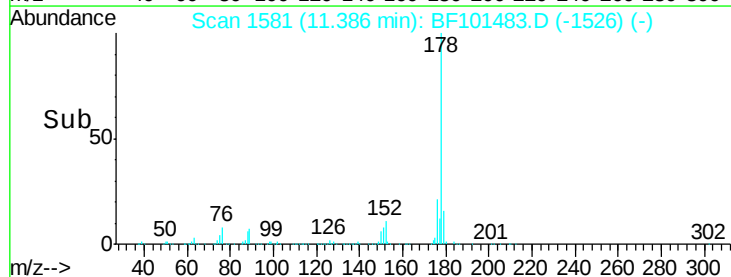
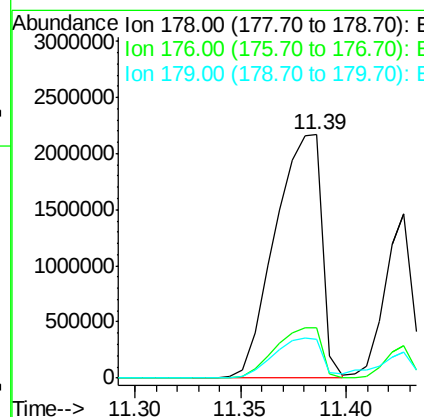
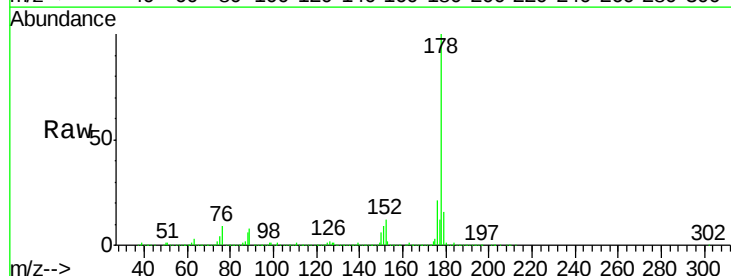
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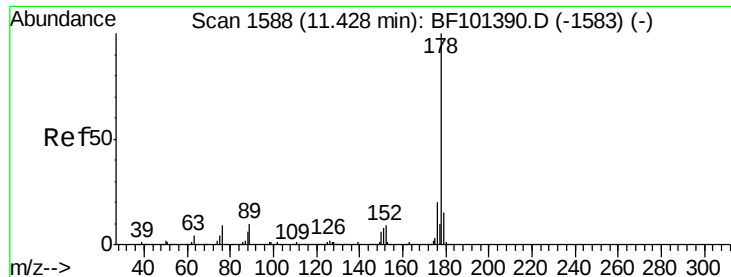
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#70
Phenanthrene
Concen: 138.739 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.02 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3349961		
176	20.9	15.8	23.8	
179	16.2	13.0	19.6	





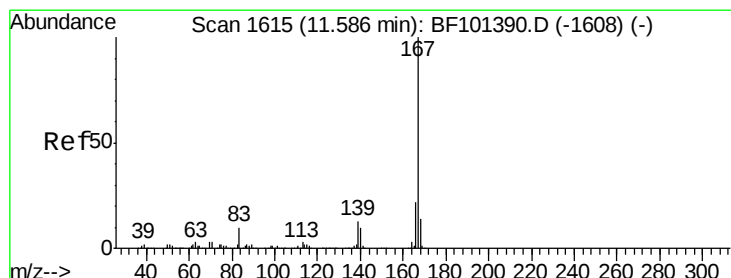
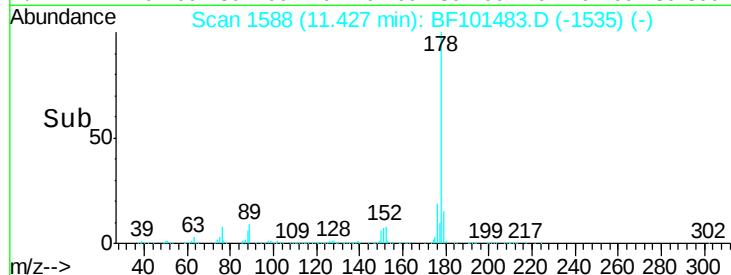
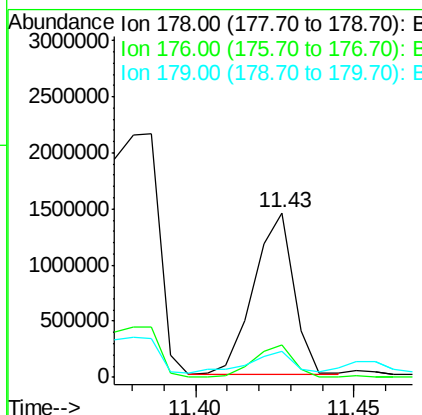
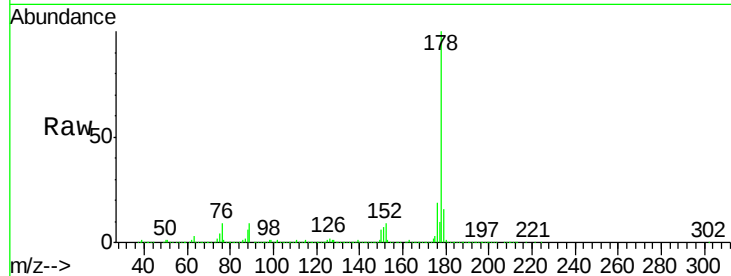
#71
 Anthracene
 Concen: 51.409 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. 0.01 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-B

Tgt Ion:178 Resp: 1267973
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.4 23.2
 179 15.5 12.6 19.0

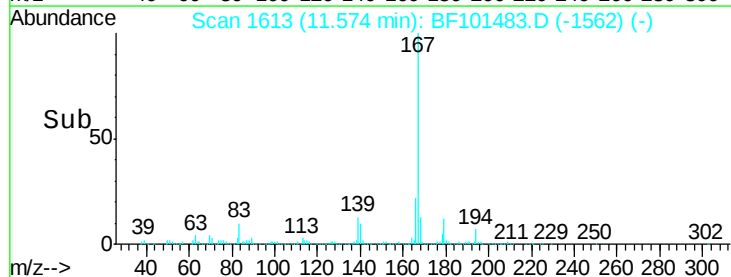
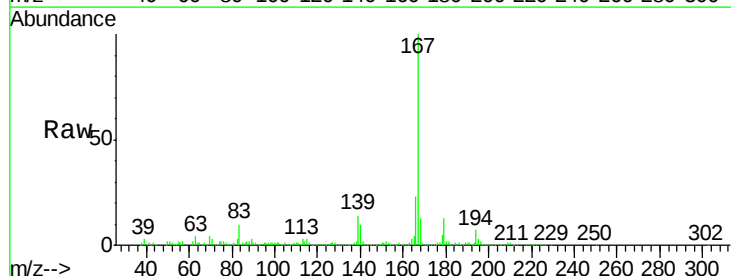
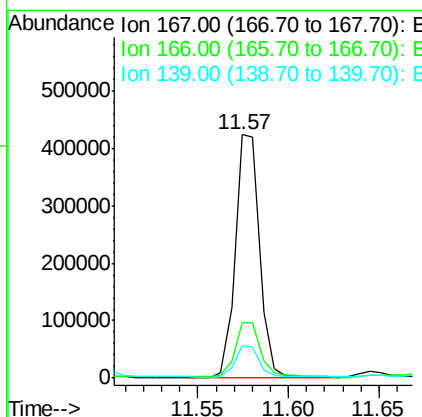
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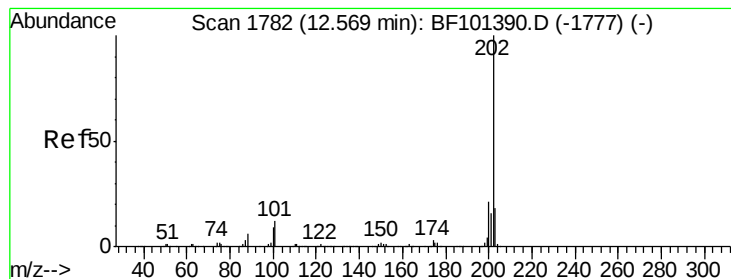
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#72
 Carbazole
 Concen: 16.963 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.00 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Tgt Ion:167 Resp: 391719
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.6 26.4
 139 13.5 10.9 16.3





#74

Fluoranthene

Concen: 123.417 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.02 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

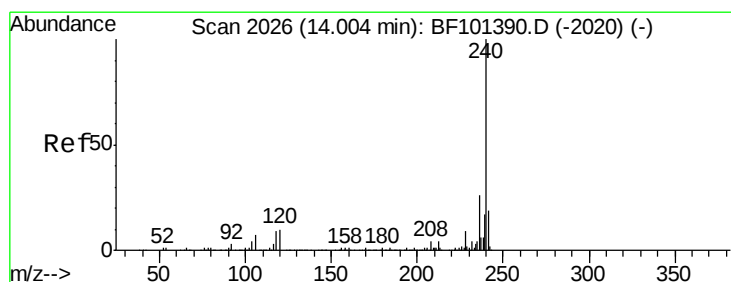
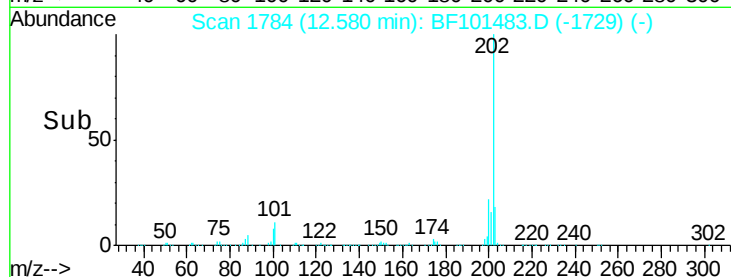
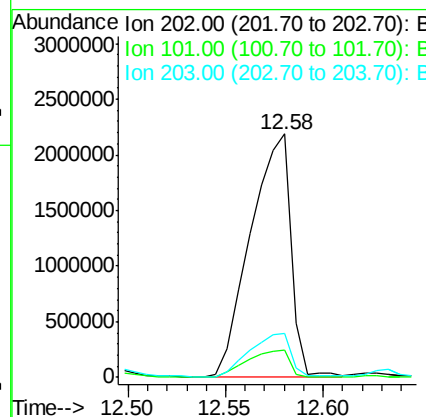
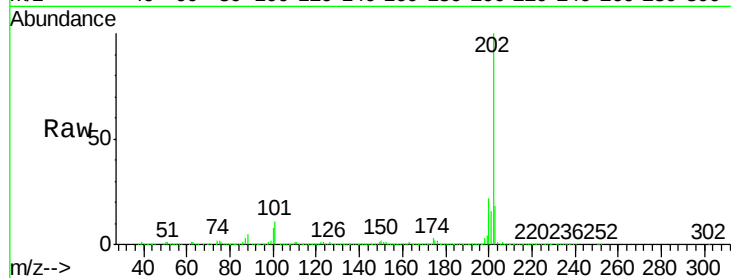
ClientSampleId :

CL-02-121417-B

Tgt Ion:	202	Resp:	3127935
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	18.1	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

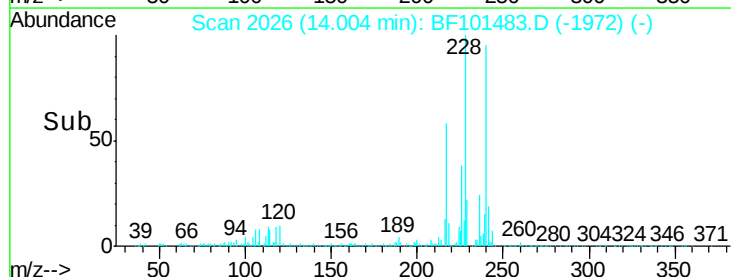
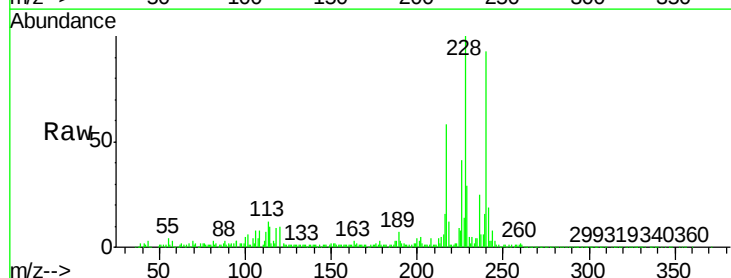
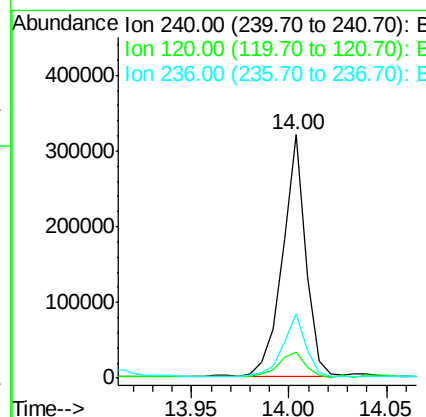
RT: 14.00 min Scan# 2026

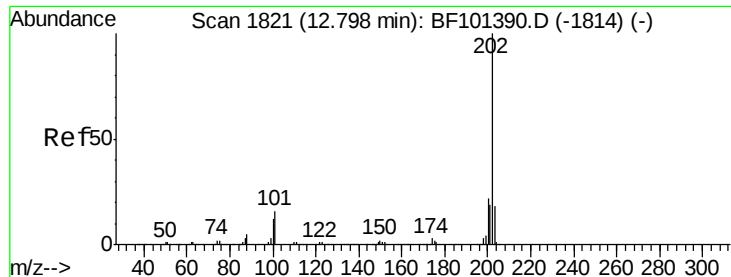
Delta R.T. 0.02 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Tgt Ion:	240	Resp:	261551
Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.5	14.3
236	26.5	20.7	31.1





#77

Pyrene

Concen: 160.254 ng

RT: 12.81 min Scan# 1823

Delta R.T. 0.02 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

Instrument :

BNA_F

ClientSampleId :

CL-02-121417-B

Tgt Ion:202 Resp: 3145687

Ion Ratio Lower Upper

202 100

200 22.8 17.4 26.2

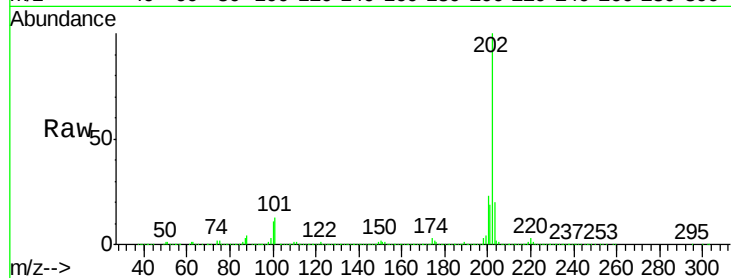
203 19.9 14.3 21.5

Manual Integrations

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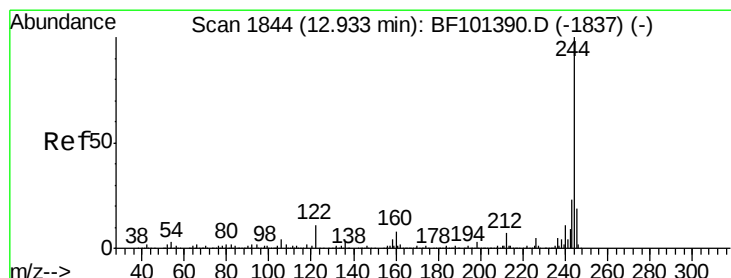
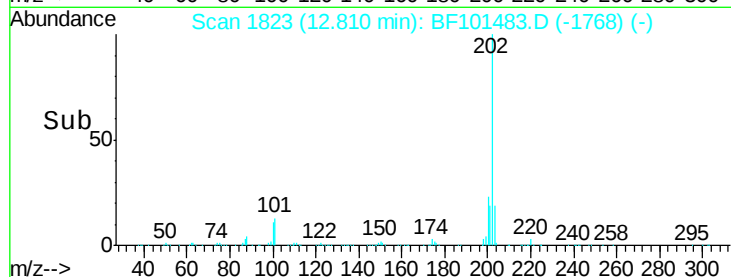
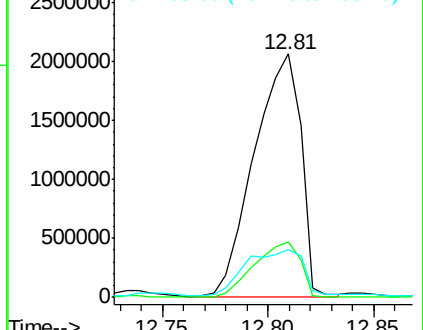
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 44.171 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.00 min

Lab File: BF101483.D

Acq: 18 Dec 2017 16:25

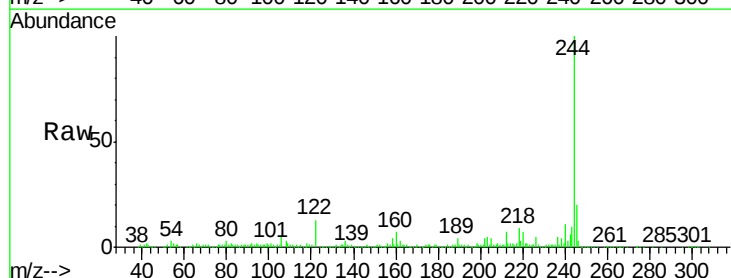
Tgt Ion:244 Resp: 479222

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

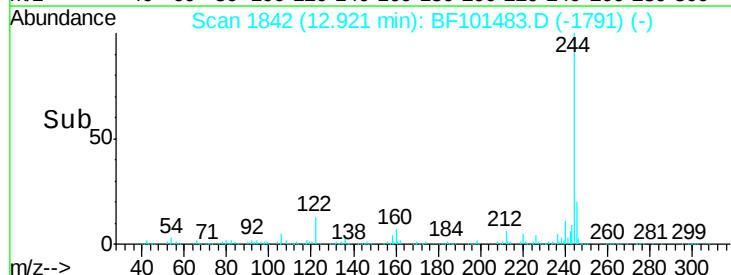
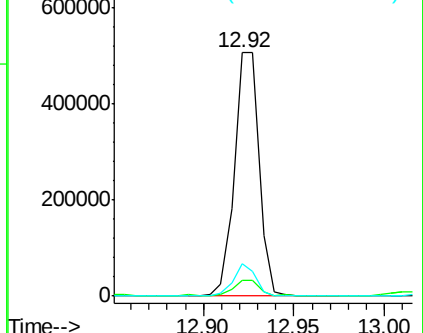
122 13.1 11.0 16.4

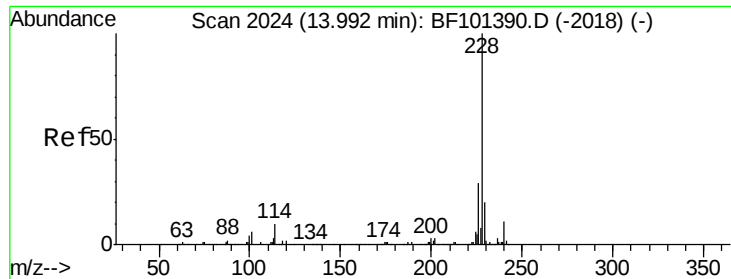


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





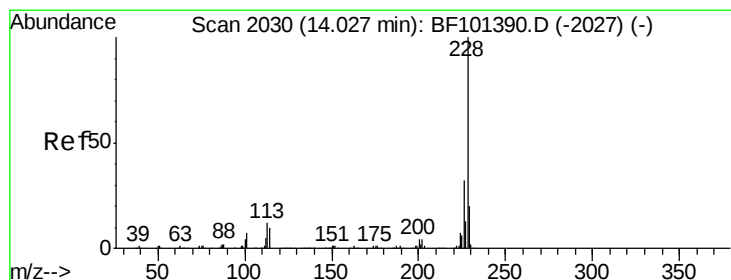
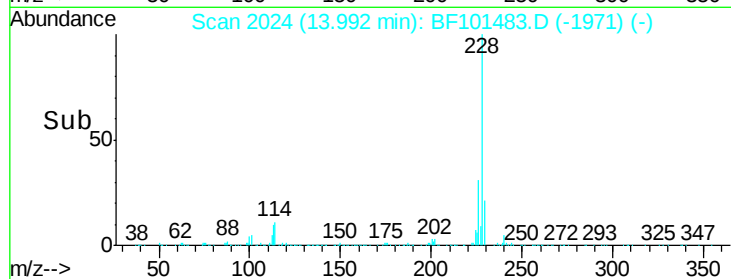
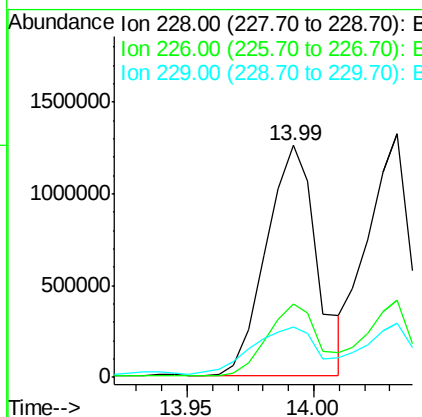
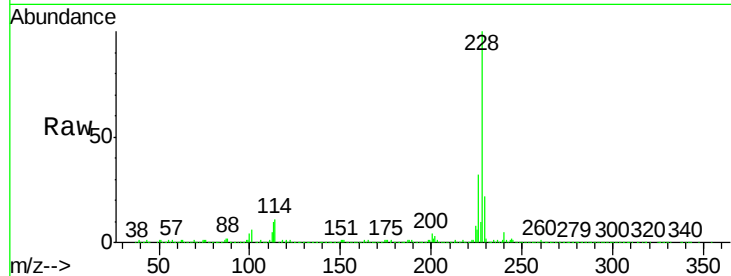
#80
Benzo(a)anthracene
Concen: 101.740 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion:228 Resp: 1757111
Ion Ratio Lower Upper
228 100
226 31.9 22.6 33.8
229 21.8 15.8 23.6

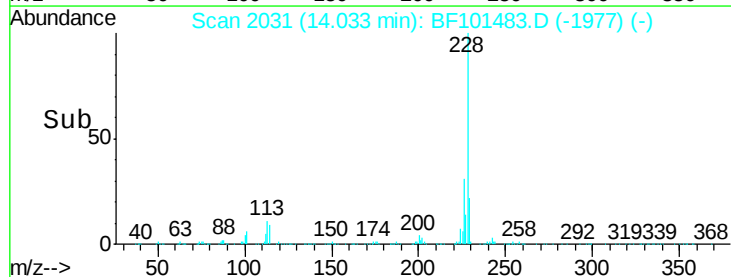
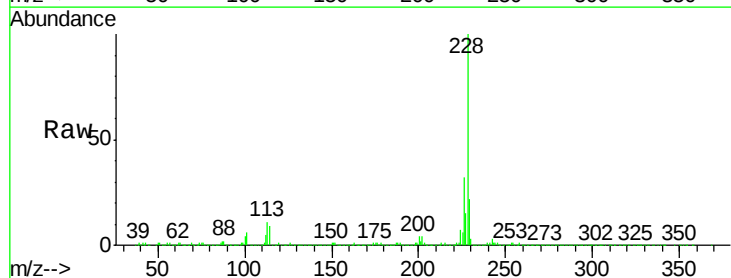
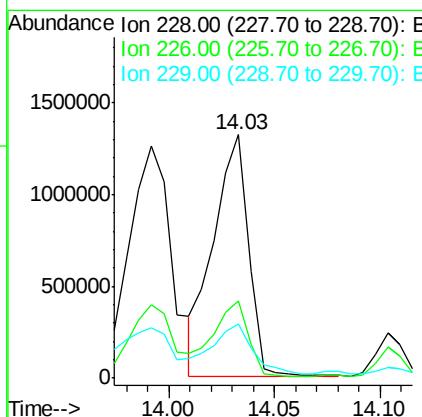
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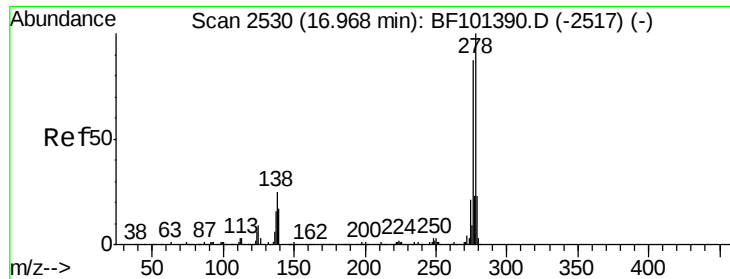
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#82
Chrysene
Concen: 93.098 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.02 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion:228 Resp: 1518117
Ion Ratio Lower Upper
228 100
226 31.7 25.0 37.6
229 22.5 16.2 24.4





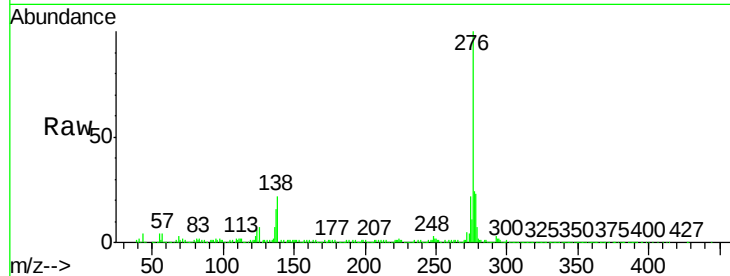
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 45.652 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. 0.03 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-B

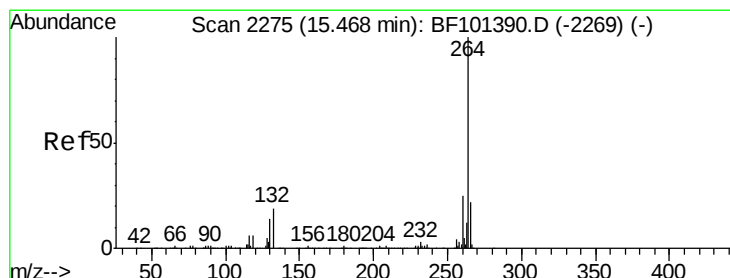
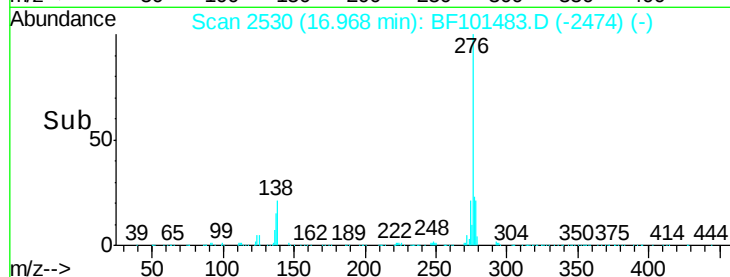
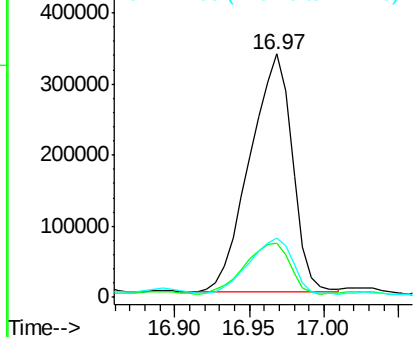
Tgt Ion	Ratio	Resp	Lower	Upper
276	100	662910		
138	23.0	25.0	37.6#	
277	24.2	20.1	30.1	

Manual Integrations
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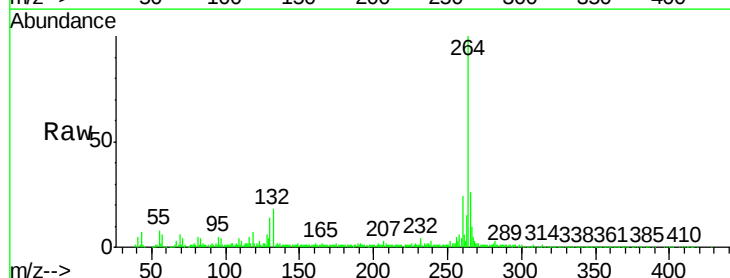


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

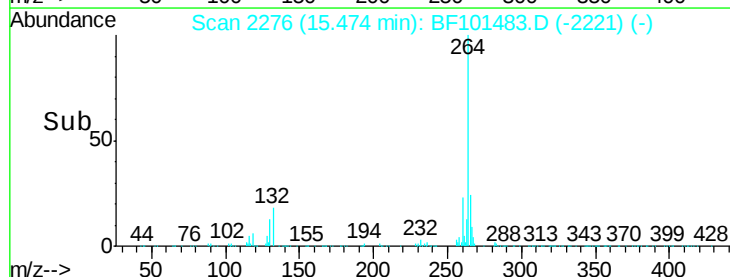
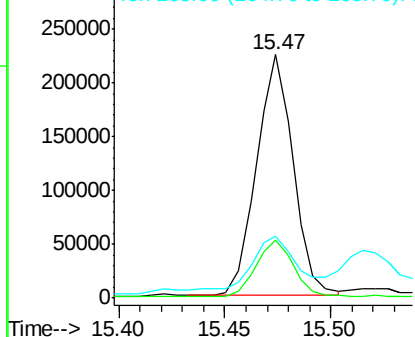


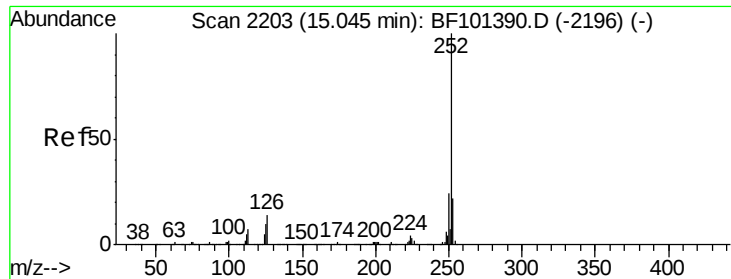
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. 0.02 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	267361		
260	24.1	19.2	28.8	
265	25.6	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





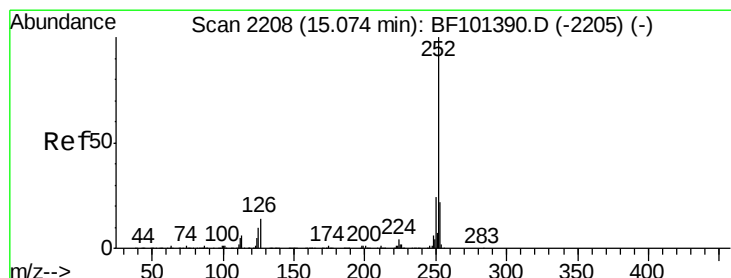
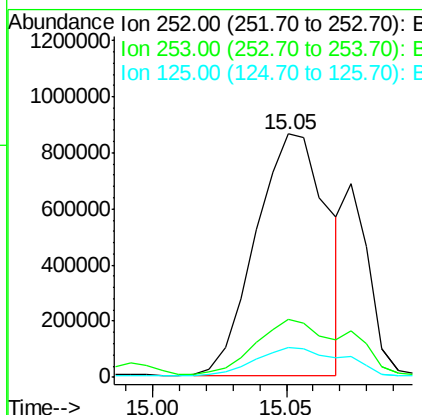
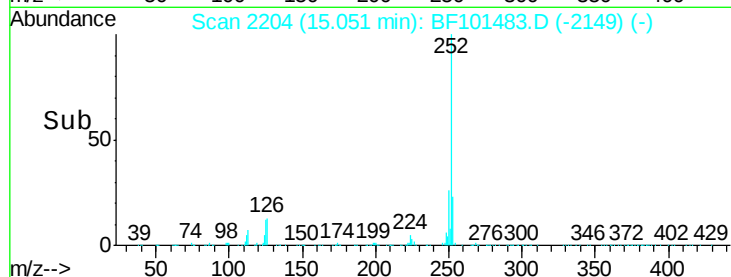
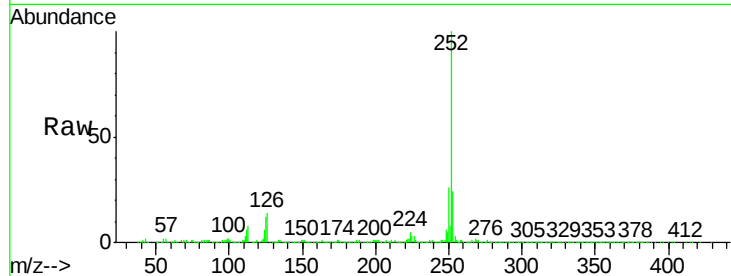
#87
Benzo(b)fluoranthene
Concen: 98.629 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.6
125	12.3	9.0	13.6

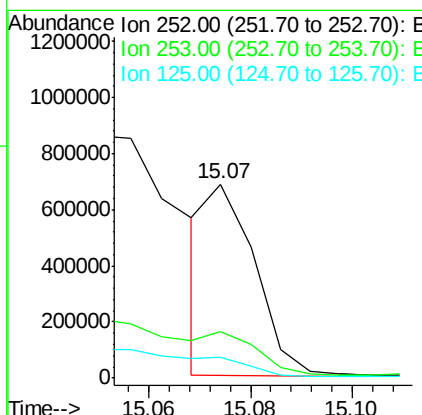
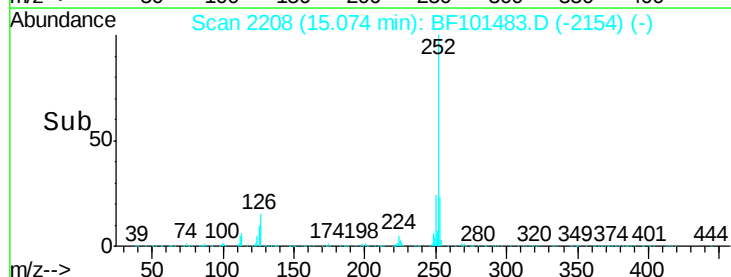
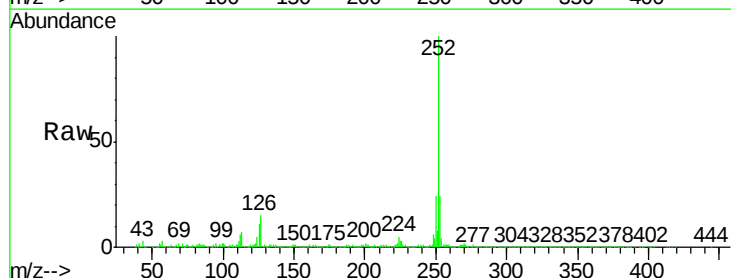
Manual Integrations
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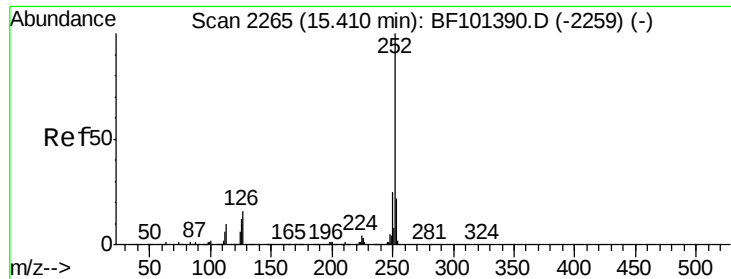
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12/19/2017 4:49:45 PM



#88
Benzo(k)fluoranthene
Concen: 28.152 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	10.9	10.2	15.2





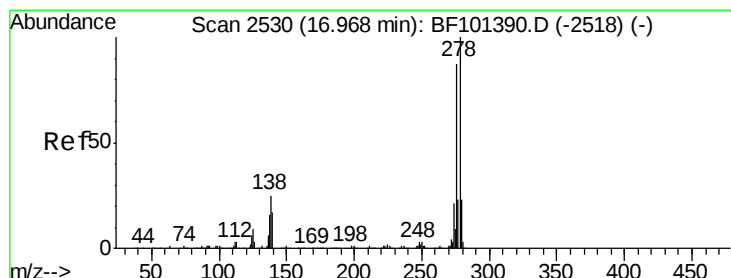
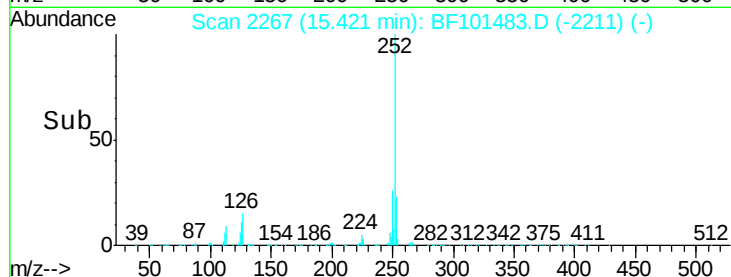
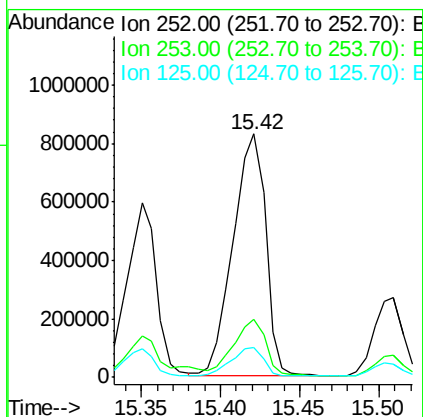
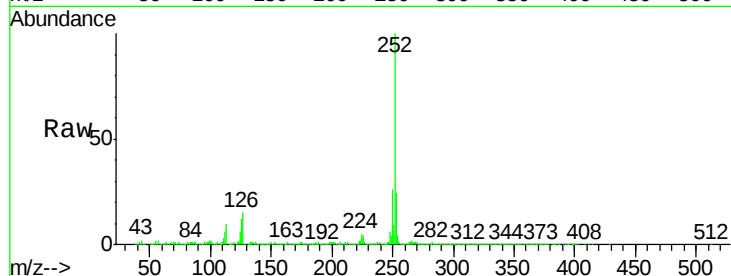
#89
Benzo(a)pyrene
Concen: 78.870 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.03 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Instrument :
BNA_F
ClientSampleId :
CL-02-121417-B

Tgt Ion: 252 Resp: 1184850
Ion Ratio Lower Upper
252 100
253 23.9 17.1 25.7
125 12.0 9.8 14.6

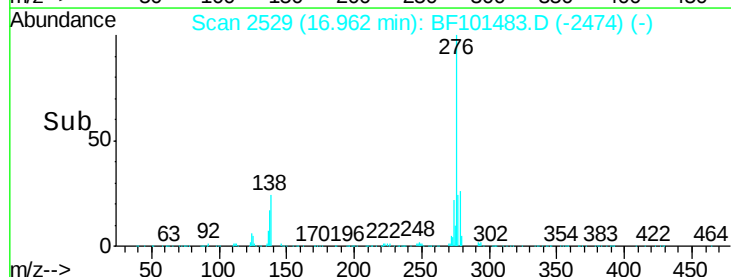
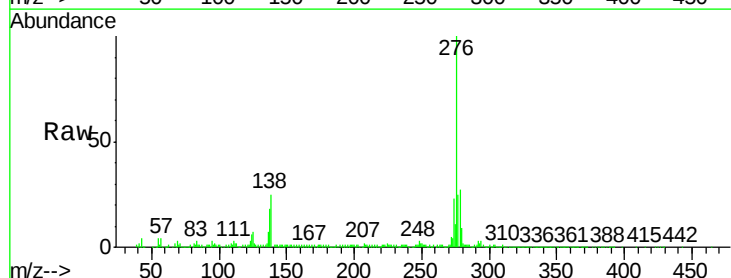
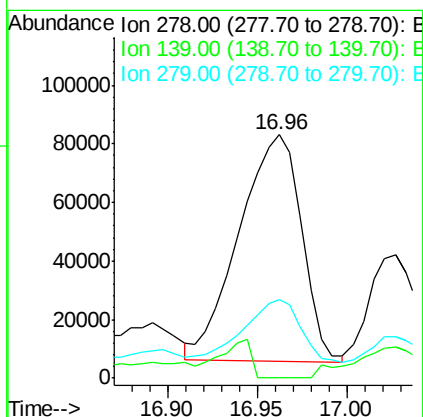
Manual Integrations
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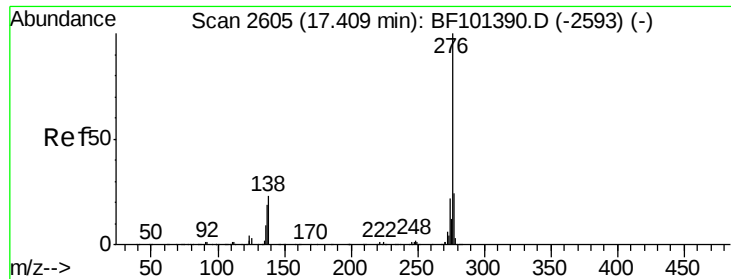
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12/19/2017 4:49:45 PM



#90
Dibenzo(a,h)anthracene
Concen: 14.534 ng m
RT: 16.96 min Scan# 2529
Delta R.T. 0.02 min
Lab File: BF101483.D
Acq: 18 Dec 2017 16:25

Tgt Ion: 278 Resp: 187465
Ion Ratio Lower Upper
278 100
139 0.0 15.9 23.9#
279 32.3 19.0 28.4#





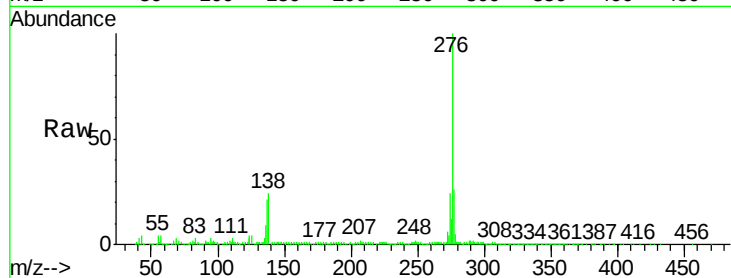
#91
 Benzo(g,h,i)perylene
 Concen: 50.041 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.04 min
 Lab File: BF101483.D
 Acq: 18 Dec 2017 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-121417-B

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		639130		
277	25.8	17.9	26.9		
138	23.9	21.8	32.8		

Manual Integrations
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 12/19/2017 4:49:45 PM



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

