

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101413.D
 Acq On : 15 Dec 2017 00:17
 Operator : SJ/JU
 Sample : I6847-01 100X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-646507-01

Manual Integrations
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Sohil
 12/15/2017 6:44:45 PM

Quant Time: Dec 15 02:33:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	185129	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	588665	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	329449	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	602248	20.00	ng	0.00
75) Chrysene-d12	13.99	240	416054	20.00	ng	-0.01
86) Perylene-d12	15.46	264	338148	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	124	0.01	ng	0.08
7) Phenol-d6	6.53	99	1094	0.07	ng	0.08
23) Nitrobenzene-d5	7.41	82	843	0.08	ng	0.02
41) 2,4,6-Tribromophenol	10.67	330	375	0.12	ng	0.02
44) 2-Fluorobiphenyl	9.17	172	2296	0.11	ng	0.00
78) Terphenyl-d14	12.93	244	2767	0.16	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.14	128	7536133	254.294	ng	98
37) 2-Methylnaphthalene	8.81	142	513903	26.616	ng	99
45) 1,1'-Biphenyl	9.27	154	106241	3.636	ng	96
54) Dibenzofuran	10.06	168	273388	10.141	ng	99
57) Fluorene	10.40	166	127044	5.570	ng	99
70) Phenanthrene	11.37	178	865212	25.833	ng	99
71) Anthracene	11.42	178	163418	4.777	ng	97
72) Carbazole	11.58	167	99276	3.099	ng	100
74) Fluoranthene	12.56	202	633828	18.030	ng	97
77) Pyrene	12.79	202	467106	14.959	ng	100
80) Benzo(a)anthracene	13.98	228	191393	6.967	ng	97
82) Chrysene	14.02	228	162477	6.264	ng	98
85) Indeno(1,2,3-cd)pyrene	16.94	276	54142	2.344	ng	95
87) Benzo(b)fluoranthene	15.03	252	139949m	6.790	ng	
88) Benzo(k)fluoranthene	15.06	252	52548m	2.622	ng	
89) Benzo(a)pyrene	15.40	252	68713	3.616	ng	98
91) Benzo(a,h,i)perylene	17.39	276	44417	2.750	ng	94

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

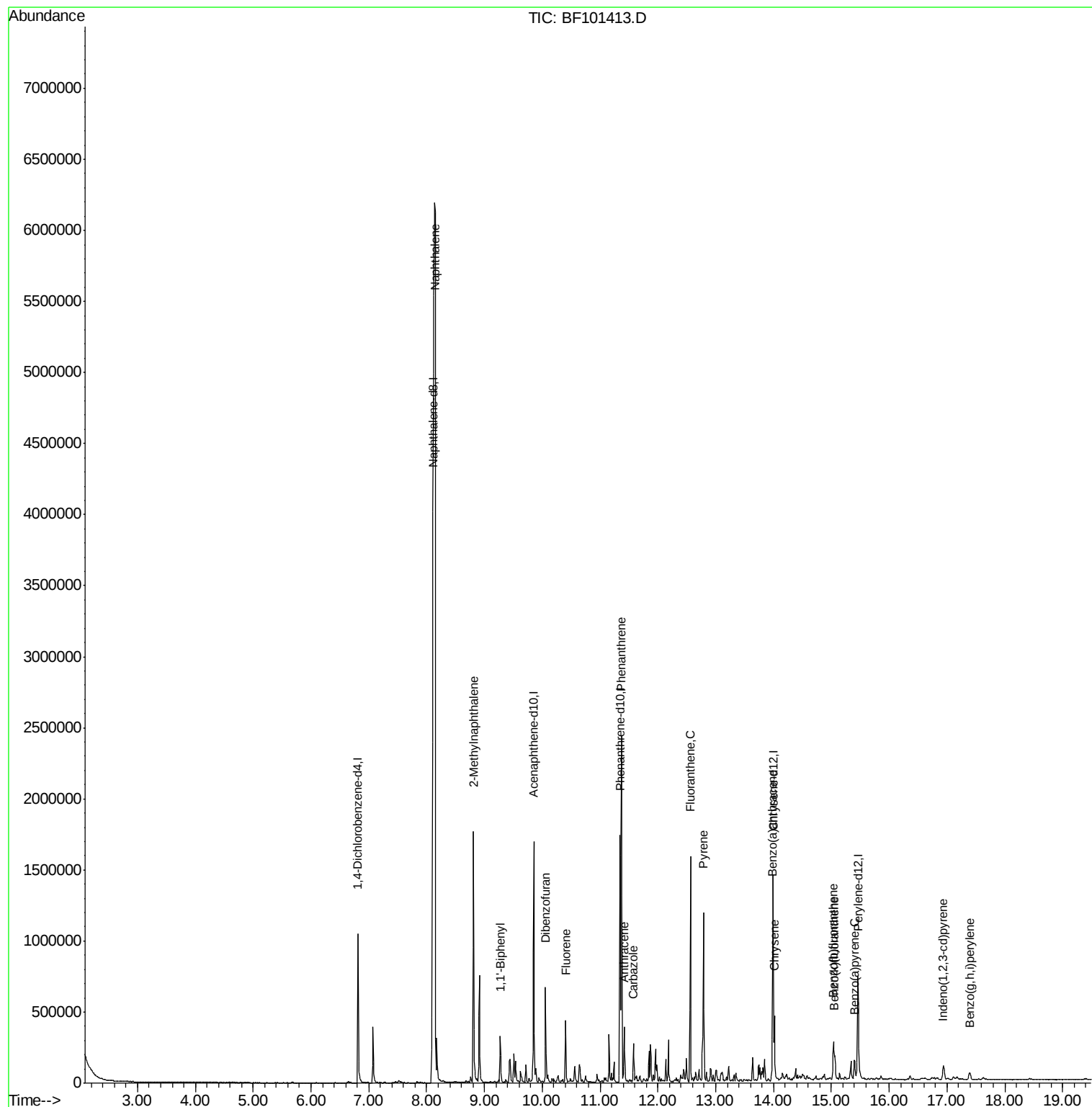
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101413.D
Acq On : 15 Dec 2017 00:17
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Sample : I6847-01 100X
Misc :
ALS Vial : 18 Sample Multiplier: 1

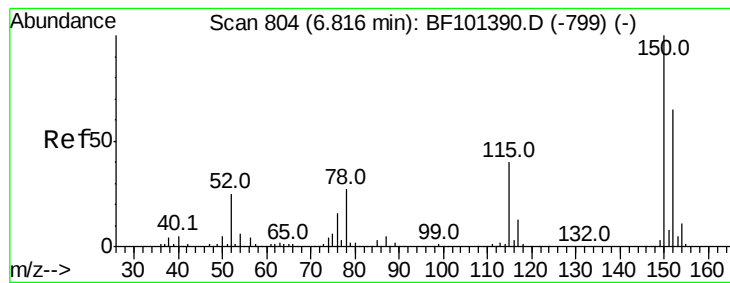
Instrument :
BNA_F
ClientSampleId :
WC-646507-01

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Quant Time: Dec 15 02:33:05 2017
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#1

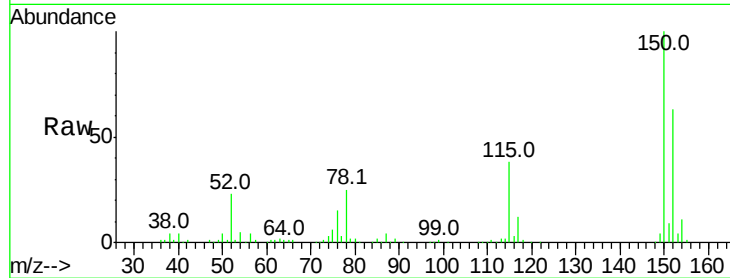
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Instrument :
BNA_F
ClientSampleId :
WC-646507-01

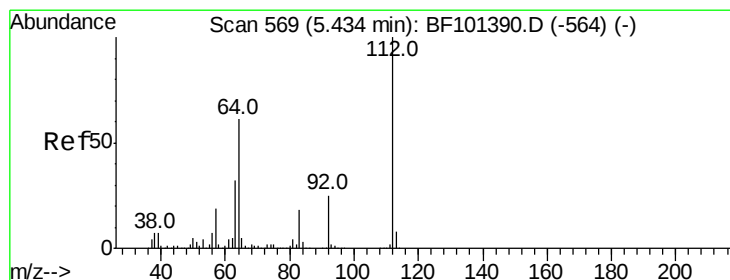
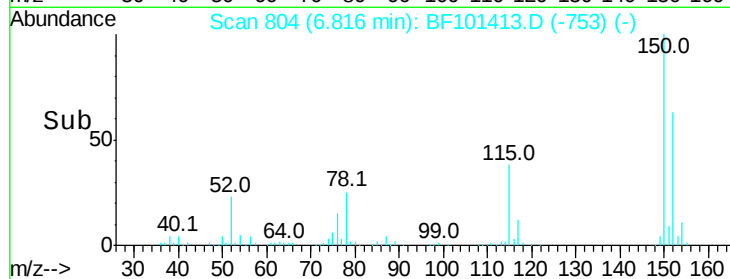
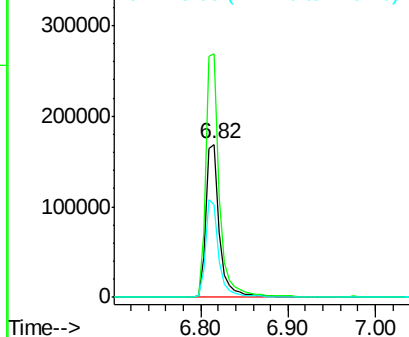
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	124.6	186.8
115	60.1	50.1	75.1

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E

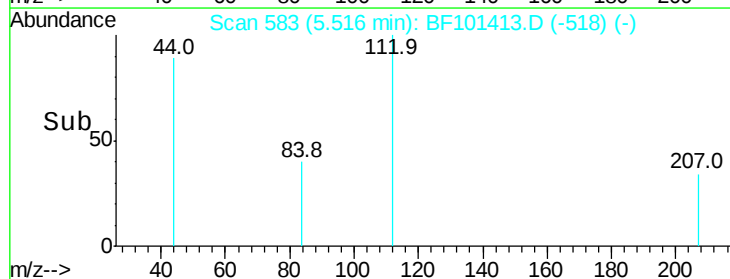
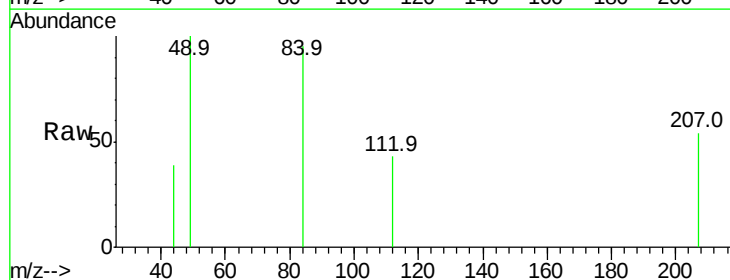
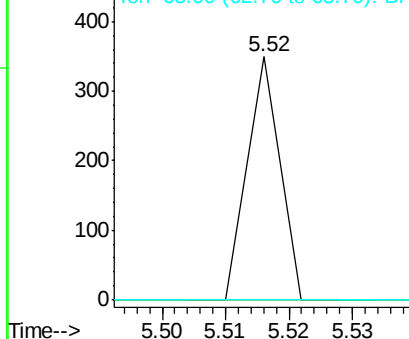


#5

2-Fluorophenol
Concen: 0.010 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.08 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	47.9	71.9#
63	0.0	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: 0.071 ng

RT: 6.53 min Scan# 756

Delta R.T. 0.08 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

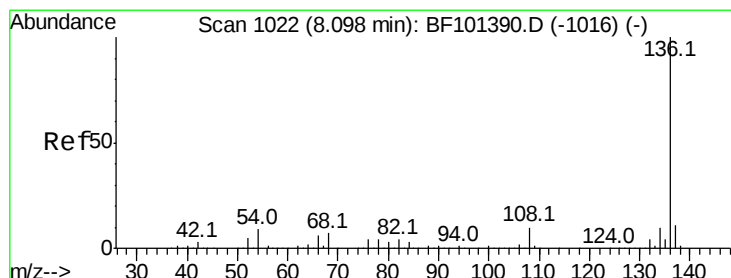
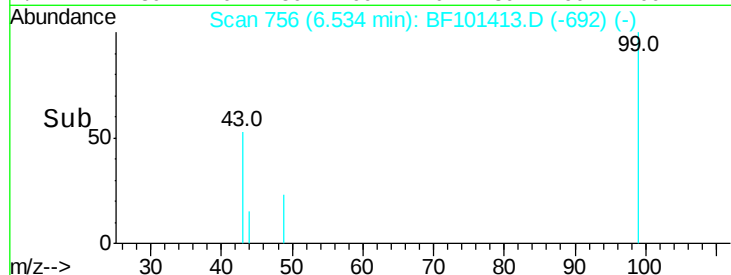
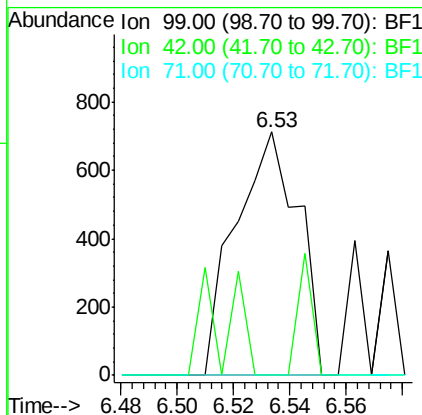
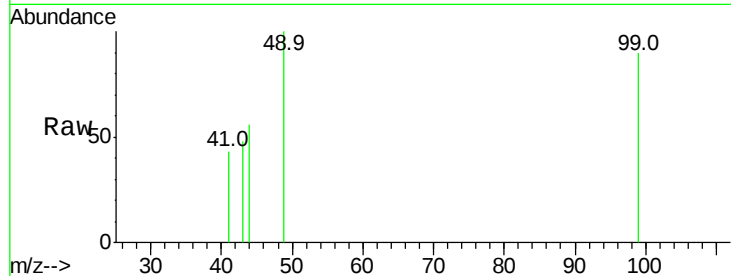
ClientSampleId :

WC-646507-01

Tot Ion:	99	Resp:	1094
Ion Ratio	Lower	Upper	
99	100		
42	0.0	14.5	21.7#
71	0.0	25.4	38.0#

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#21

Naphthalene-d8

Concen: 20.000 ng

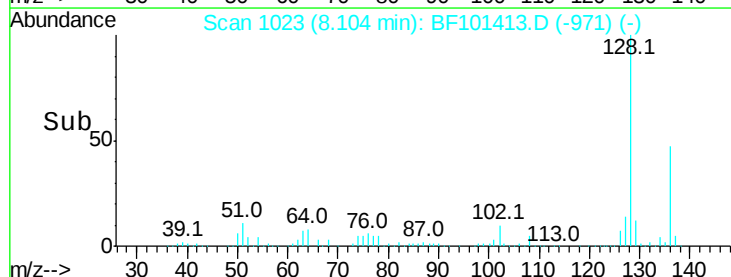
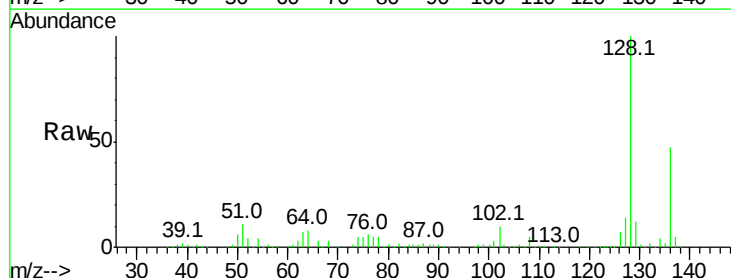
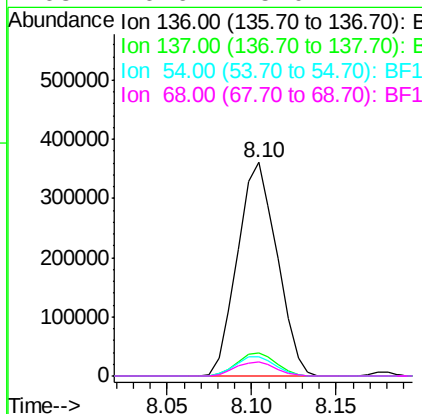
RT: 8.10 min Scan# 1023

Delta R.T. 0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion:	136	Resp:	588665
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	9.2	6.6	9.8
68	6.6	5.0	7.4





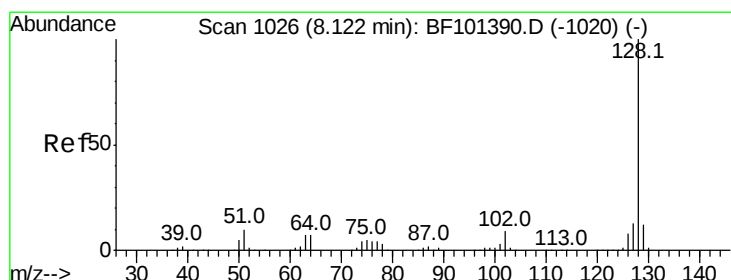
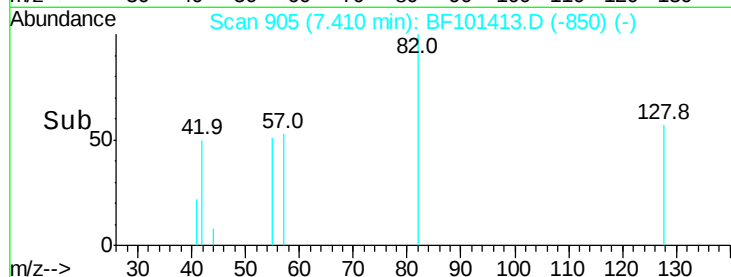
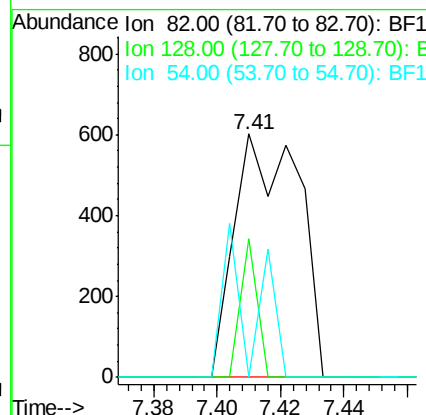
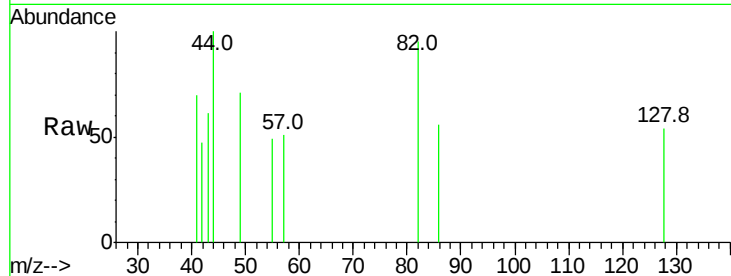
#23
 Nitrobenzene-d5
 Concen: 0.080 ng
 RT: 7.41 min Scan# 905
 Delta R.T. 0.02 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Instrument :
 BNA_F
 ClientSampleId :
 WC-646507-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	56.8	36.1	54.1#
54	0.0	41.4	62.2#

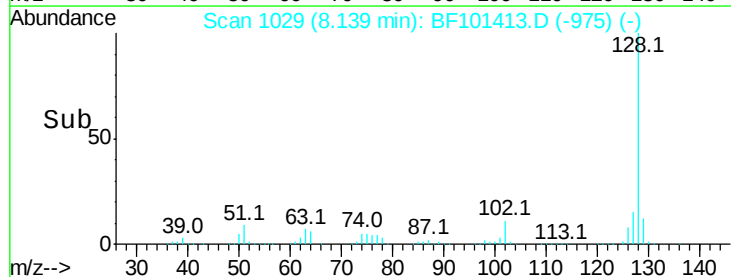
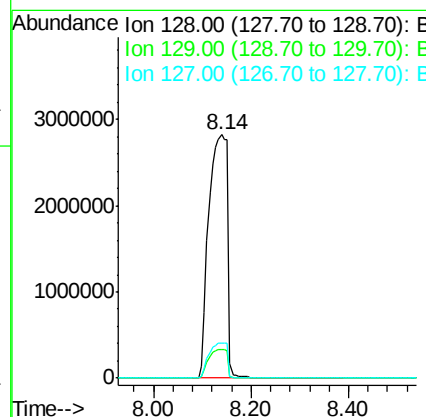
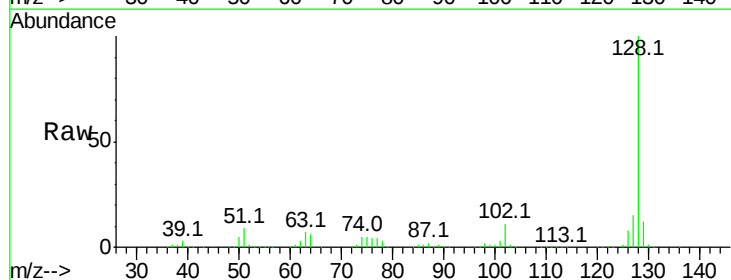
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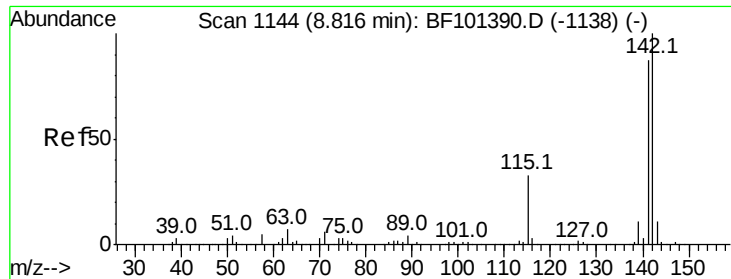
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#31
 Naphthalene
 Concen: 254.294 ng
 RT: 8.14 min Scan# 1029
 Delta R.T. 0.02 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.6	10.9	16.3





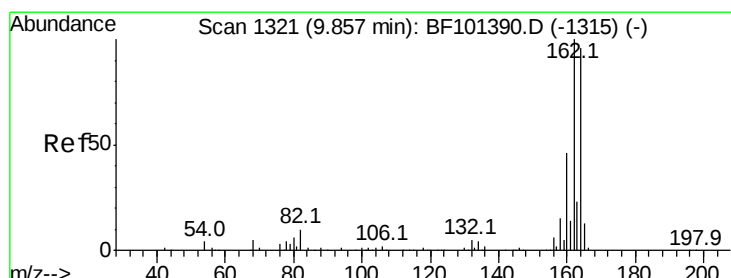
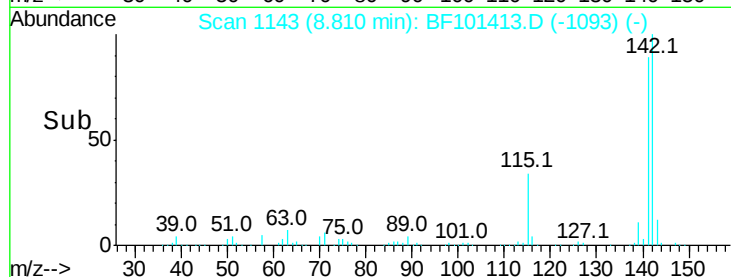
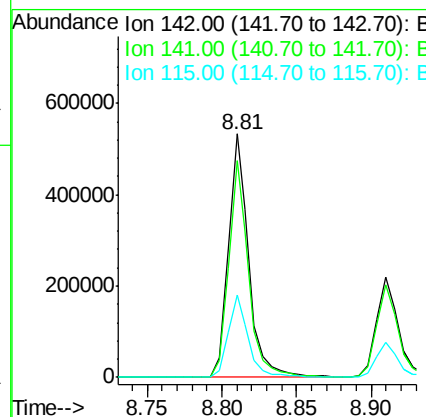
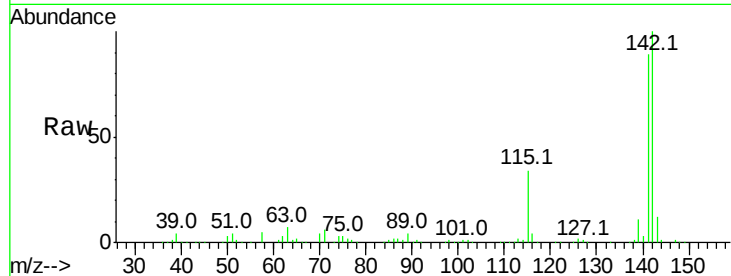
#37
2-Methylnaphthalene
Concen: 26.616 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Instrument :
BNA_F
ClientSampleId :
WC-646507-01

Tot Ion	Ratio	Resp	Lower	Upper
142	100	513903		
141	89.2		70.8	106.2
115	33.6		26.1	39.1

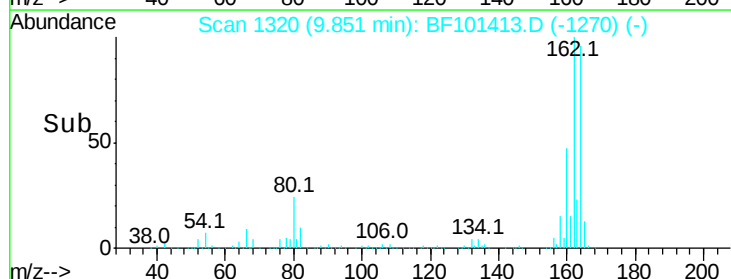
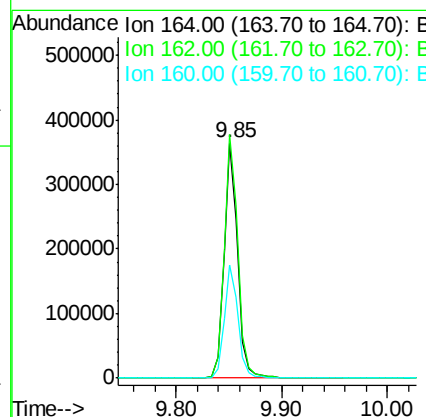
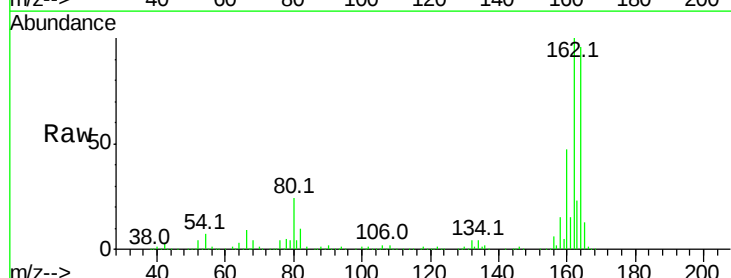
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	329449		
162	103.8		86.1	129.1
160	48.4		38.3	57.5





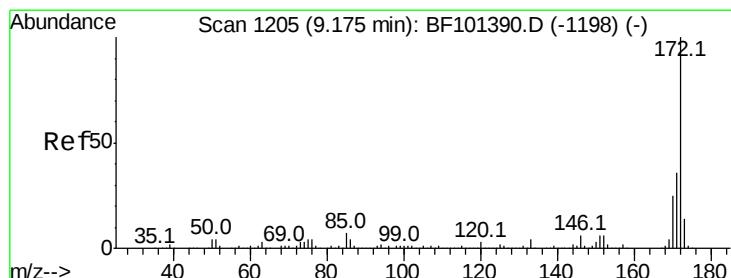
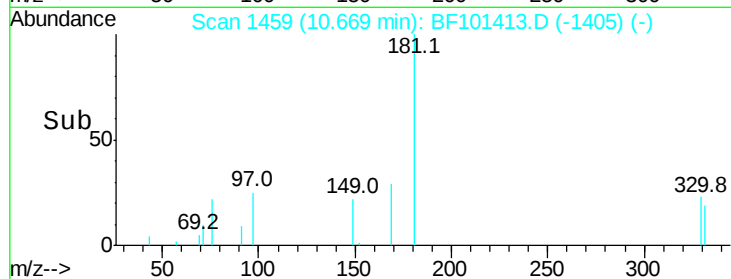
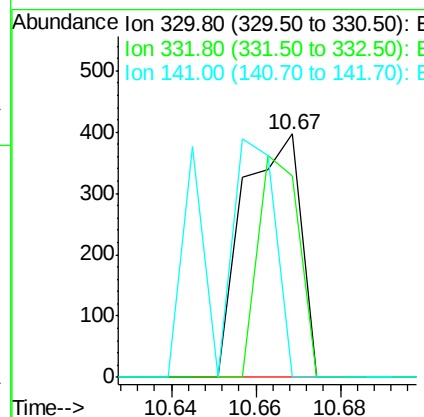
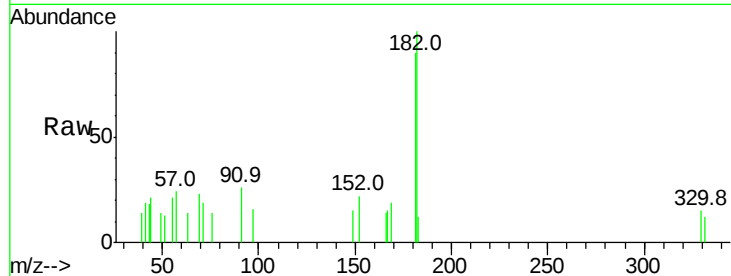
#41
 2,4,6-Tribromophenol
 Concen: 0.118 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. 0.02 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Instrument :
 BNA_F
 ClientSampleId :
 WC-646507-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	65.1	77.0	115.6#
141	105.9	29.9	44.9#

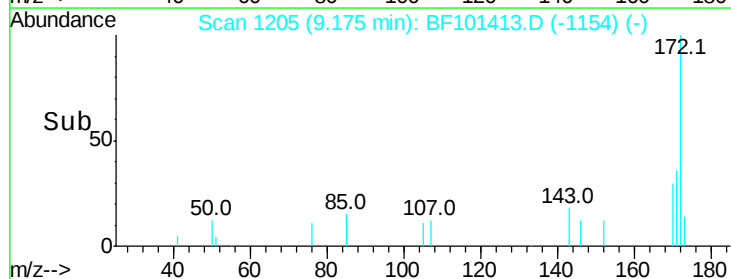
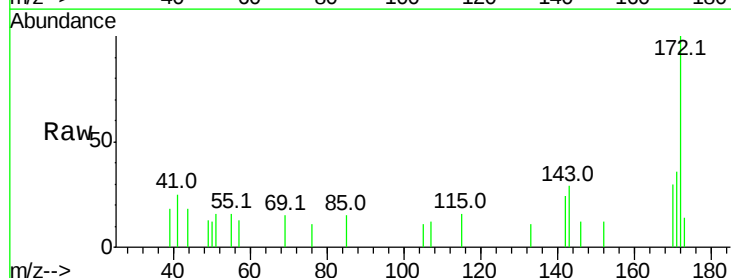
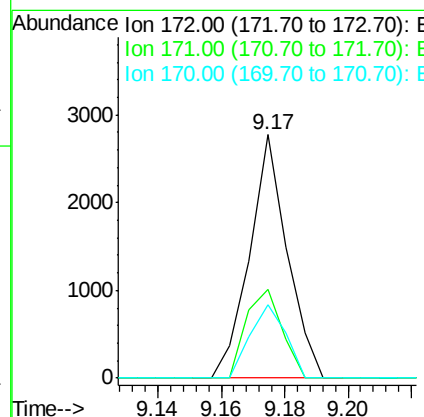
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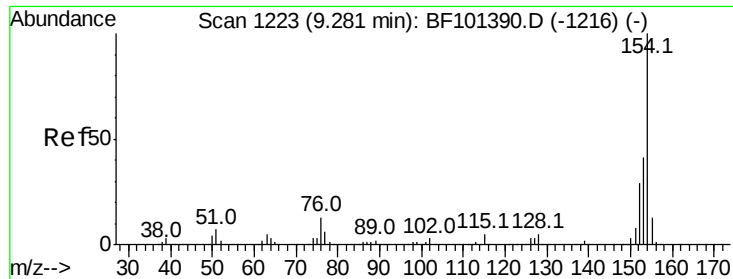
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#44
 2-Fluorobiphenyl
 Concen: 0.108 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.7	44.5
170	30.4	19.6	29.4#





#45

1,1'-Biphenyl

Concen: 3.636 ng

RT: 9.27 min Scan# 1222

Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

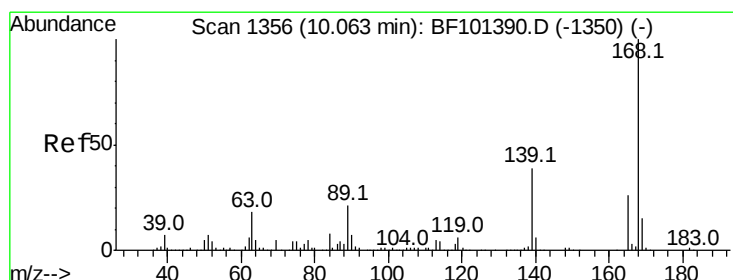
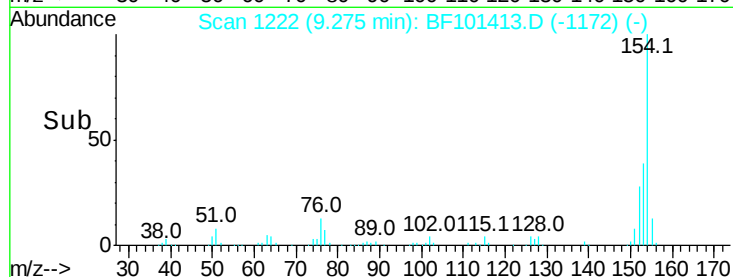
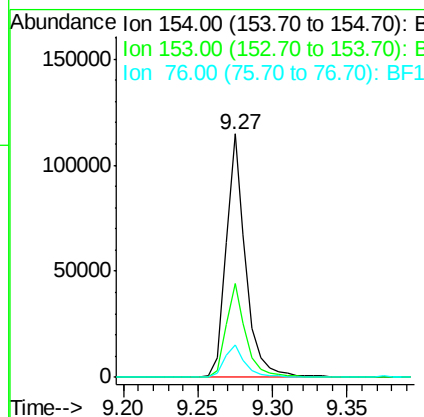
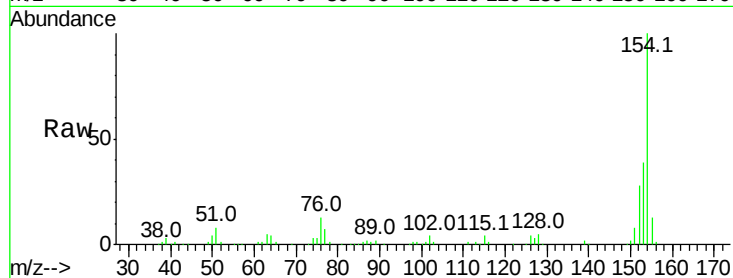
ClientSampleId :

WC-646507-01

Tot Ion:	154	Resp:	106241
Ion Ratio	Lower	Upper	
154	100		
153	38.7	21.3	61.3
76	13.1	0.0	34.0

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#54

Dibenzofuran

Concen: 10.141 ng

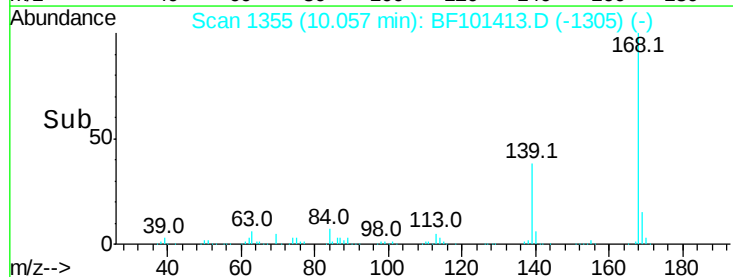
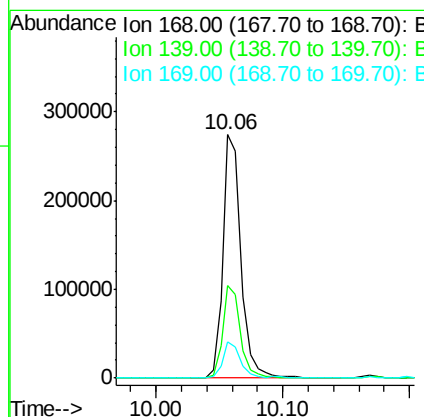
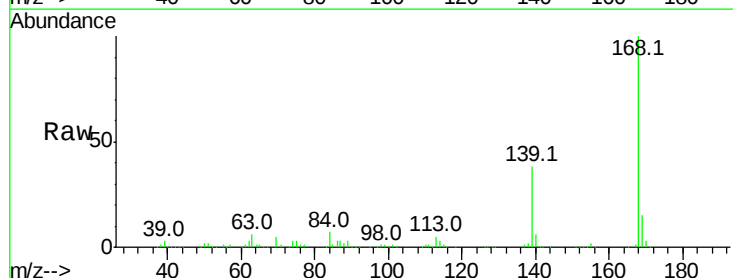
RT: 10.06 min Scan# 1355

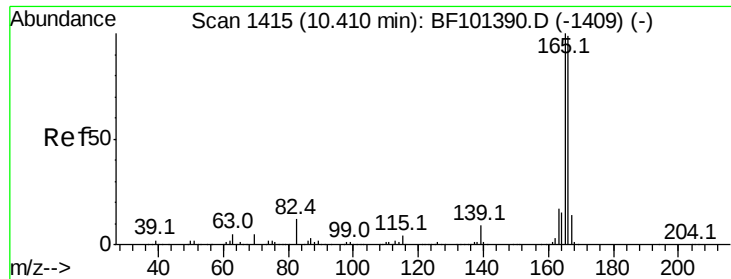
Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion:	168	Resp:	273388
Ion Ratio	Lower	Upper	
168	100		
139	37.8	30.1	45.1
169	15.0	10.9	16.3





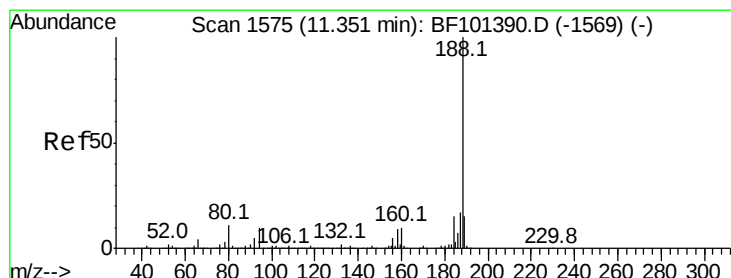
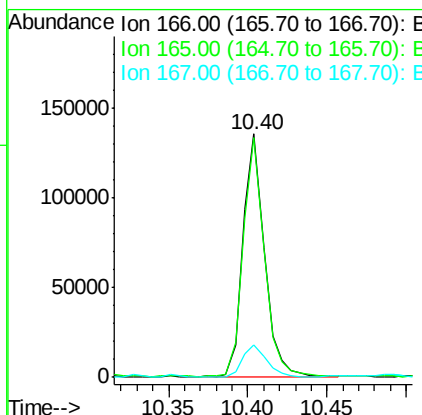
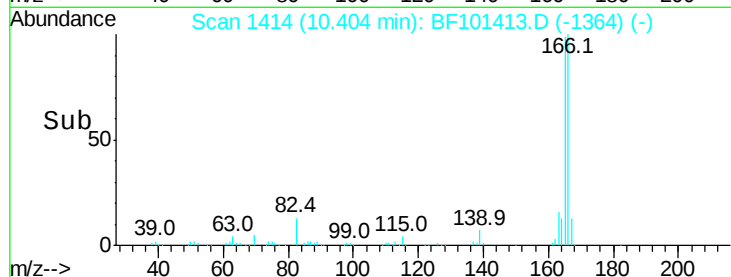
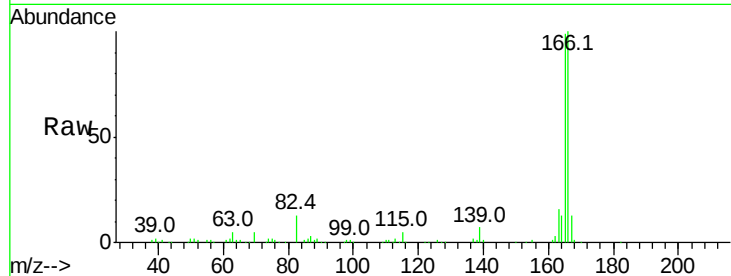
#57
Fluorene
 Concen: 5.570 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Instrument :
 BNA_F
 ClientSampleId :
 WC-646507-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.8	119.8
167	13.4	10.6	16.0

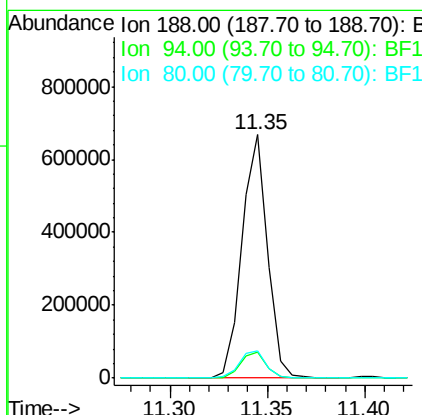
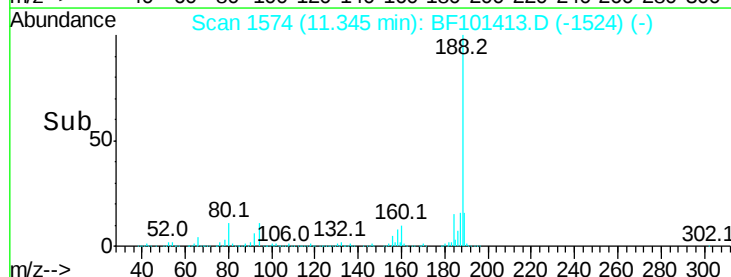
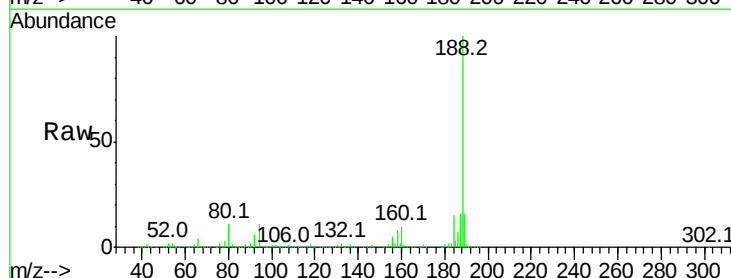
Manual Integrations
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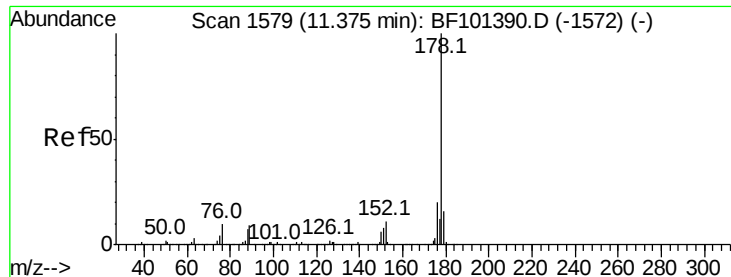
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.5	12.7
80	11.4	9.2	13.8





#70

Phenanthrene

Concen: 25.833 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

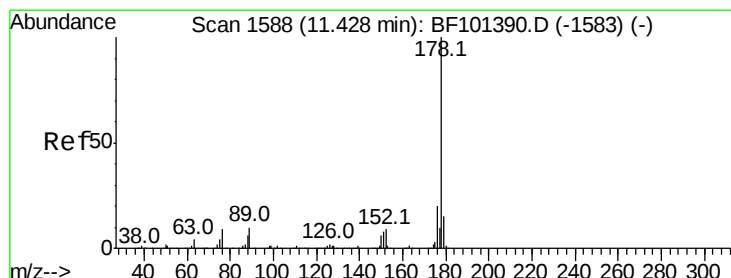
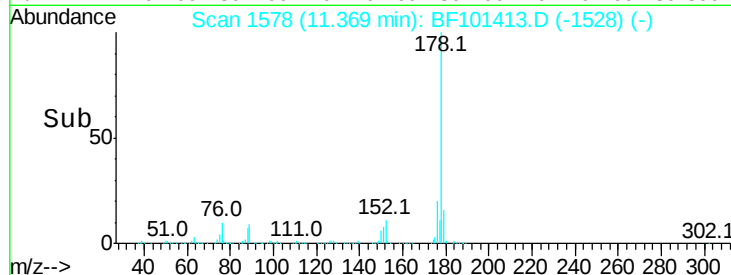
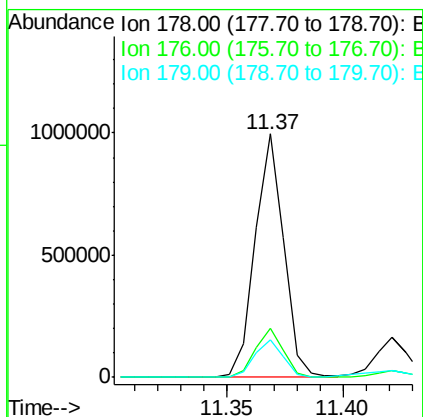
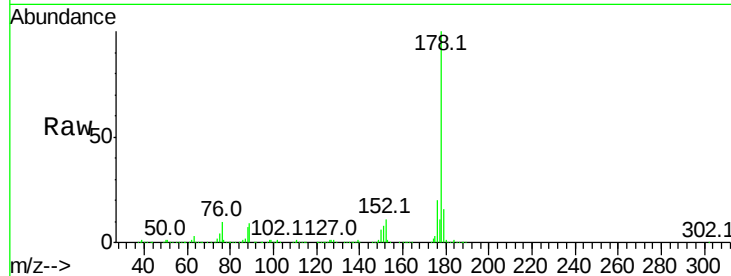
ClientSampleId :

WC-646507-01

Tot Ion:	178	Resp:	865212
Ion Ratio	Lower	Upper	
178	100		
176	20.1	15.8	23.8
179	15.7	13.0	19.6

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#71

Anthracene

Concen: 4.777 ng

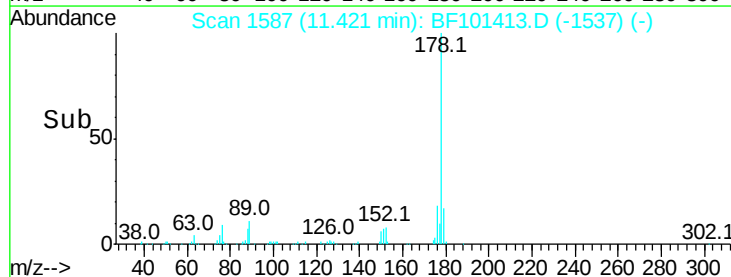
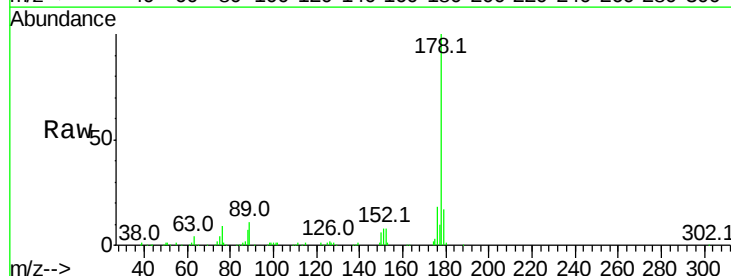
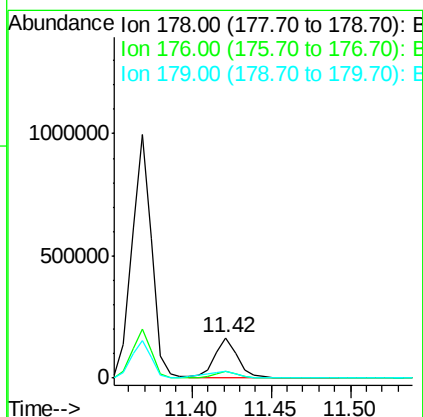
RT: 11.42 min Scan# 1587

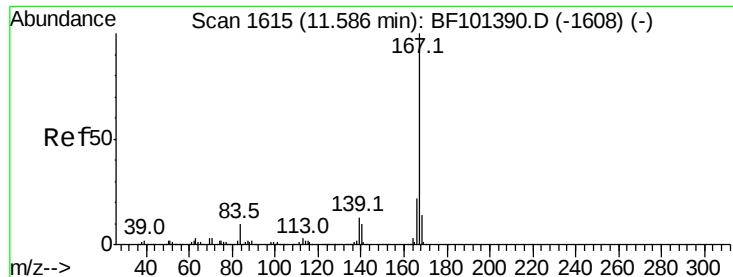
Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion:	178	Resp:	163418
Ion Ratio	Lower	Upper	
178	100		
176	17.6	15.4	23.2
179	16.5	12.6	19.0





#72

Carbazole

Concen: 3.099 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

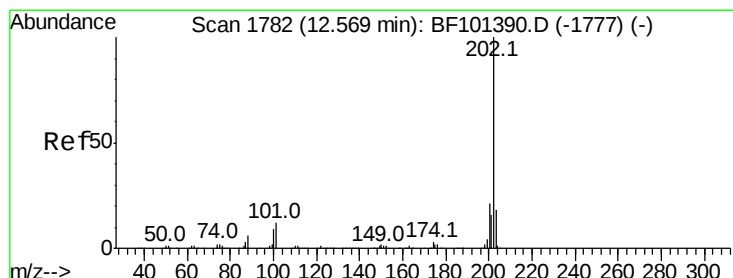
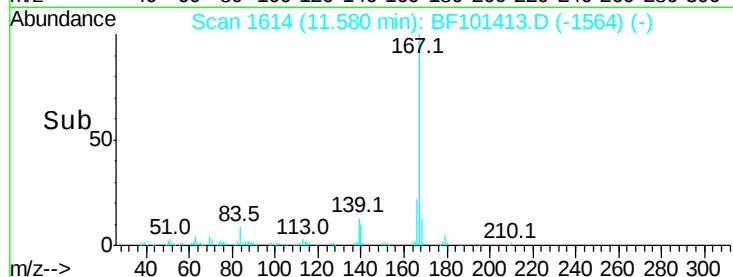
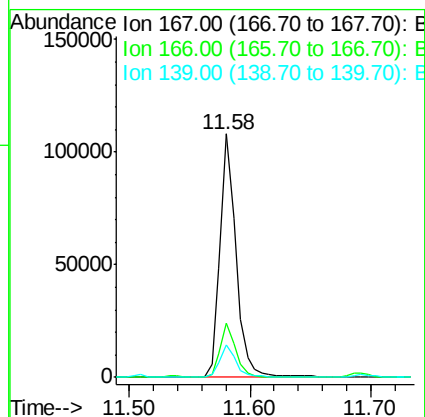
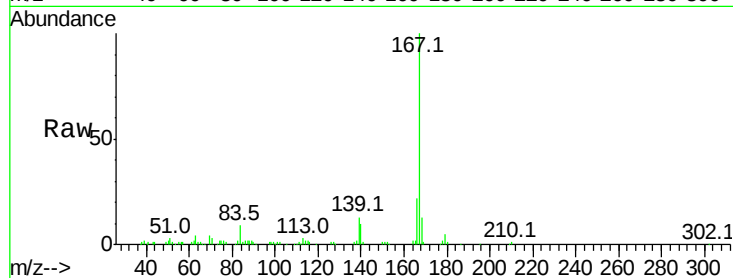
ClientSampleId :

WC-646507-01

Tot Ion:	167	Resp:	99276
Ion Ratio	Lower	Upper	
167	100		
166	22.2	17.6	26.4
139	13.3	10.9	16.3

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#74

Fluoranthene

Concen: 18.030 ng

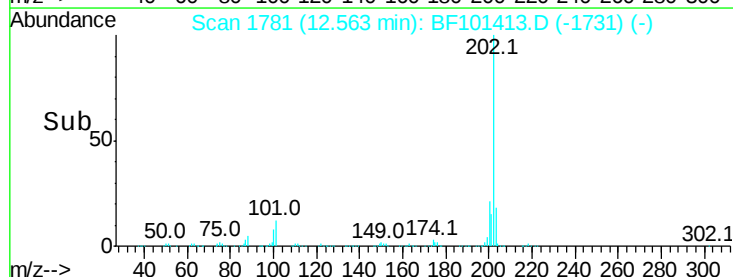
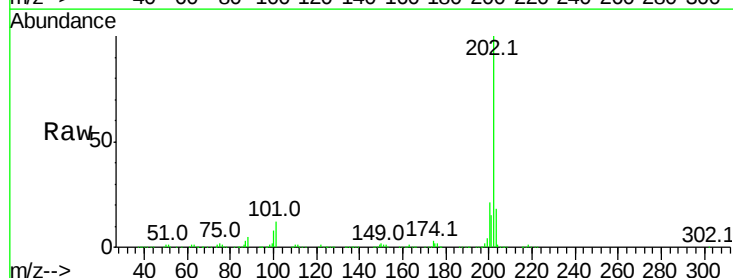
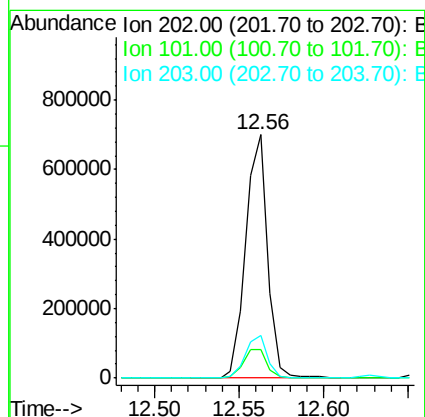
RT: 12.56 min Scan# 1781

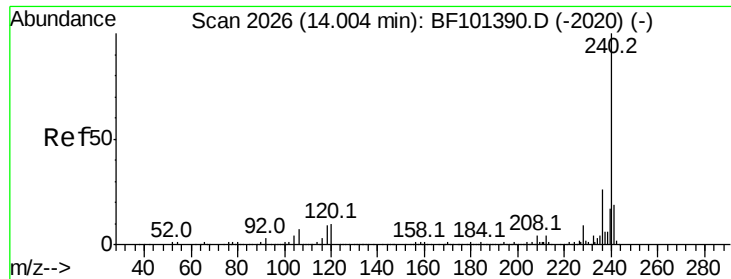
Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion:	202	Resp:	633828
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

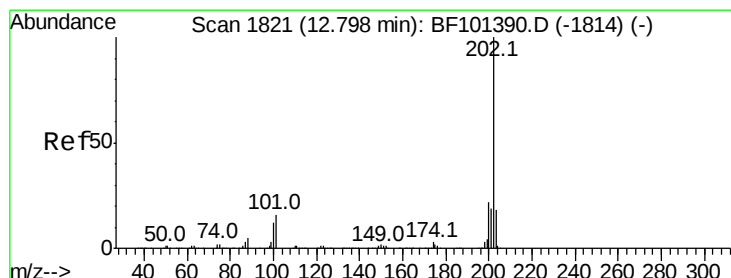
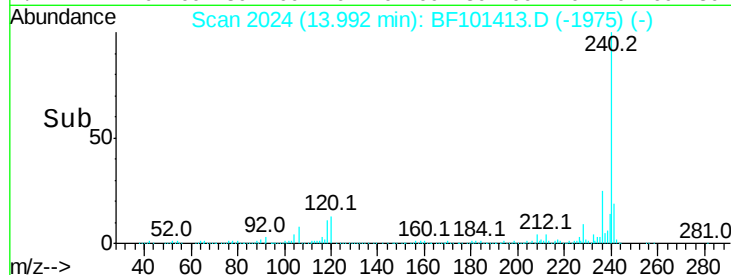
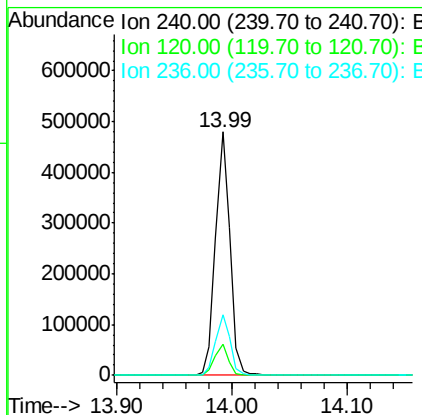
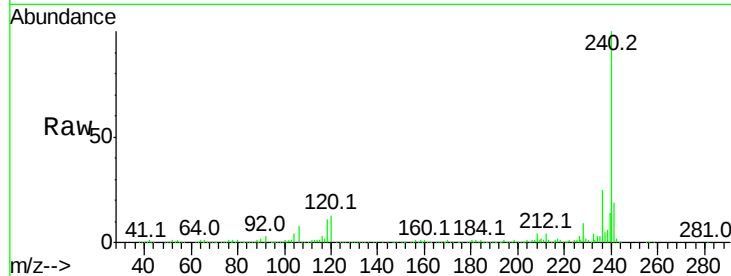
ClientSampleId :

WC-646507-01

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.7	9.5	14.3	
236	25.1	20.7	31.1	

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#77

Pyrene

Concen: 14.959 ng

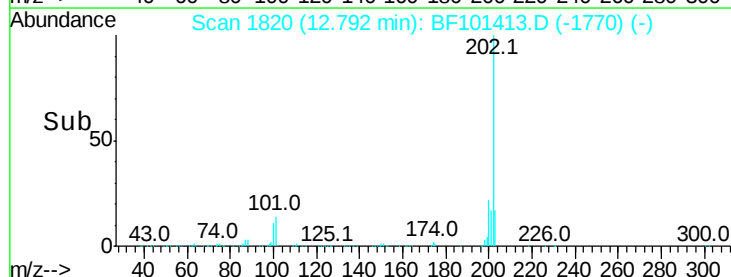
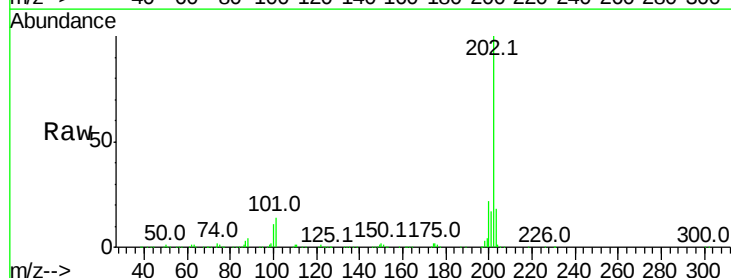
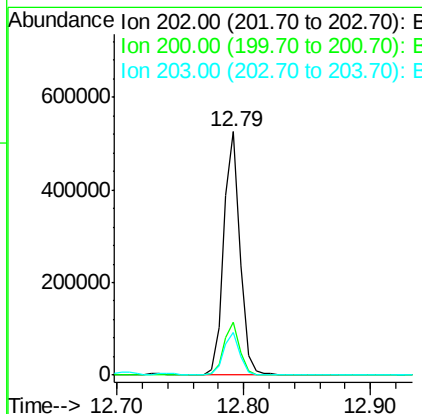
RT: 12.79 min Scan# 1820

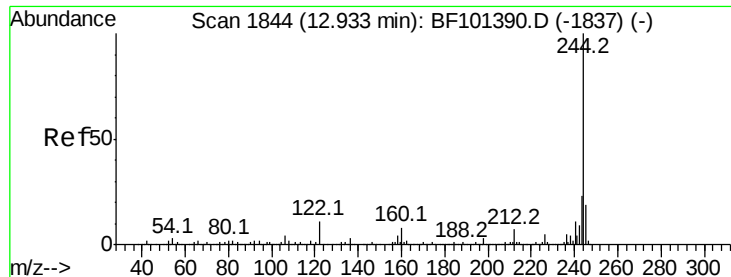
Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.9	17.4	26.2	
203	17.5	14.3	21.5	





#78

Terphenyl-d14

Concen: 0.160 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Instrument :

BNA_F

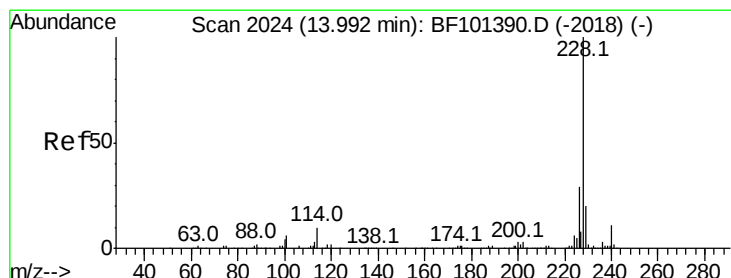
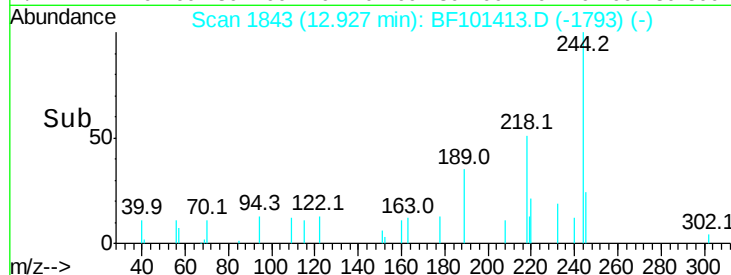
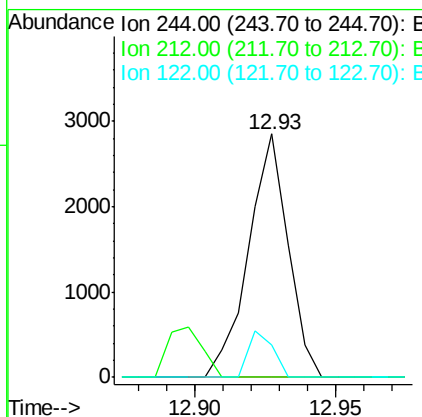
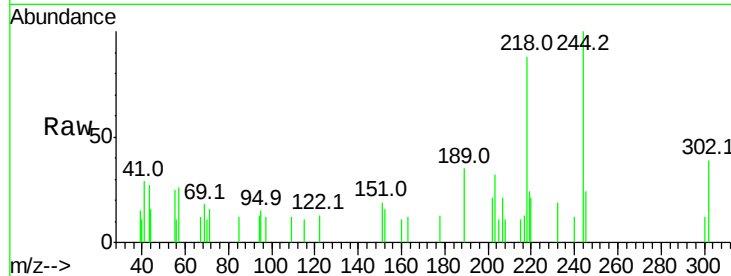
ClientSampleId :

WC-646507-01

Tot Ion:	244	Resp:	2767
Ion Ratio	Lower	Upper	
244	100		
212	0.0	5.4	8.0#
122	13.1	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 6.967 ng

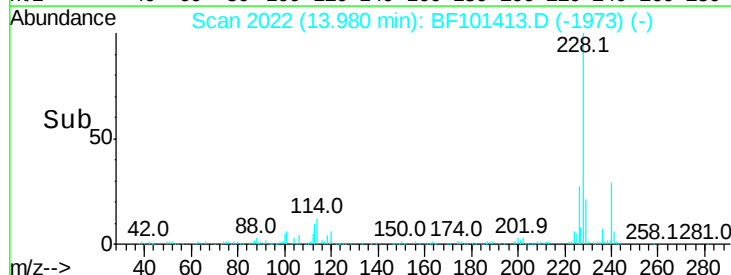
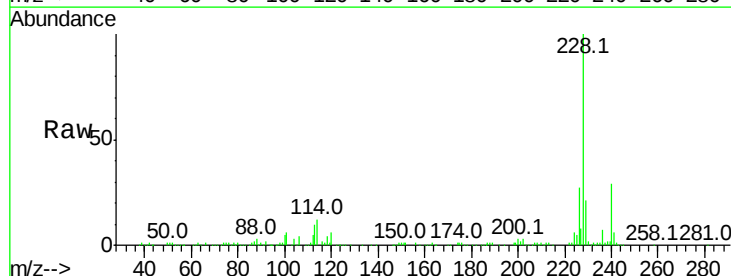
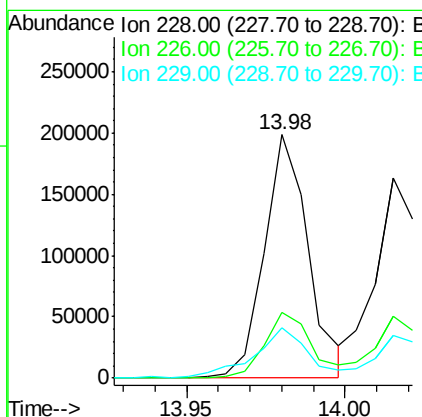
RT: 13.98 min Scan# 2022

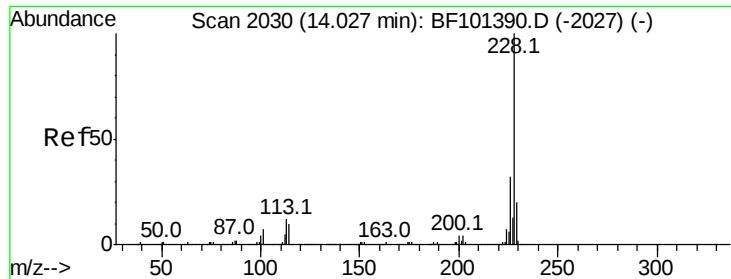
Delta R.T. -0.01 min

Lab File: BF101413.D

Acq: 15 Dec 2017 00:17

Tgt Ion:	228	Resp:	191393
Ion Ratio	Lower	Upper	
228	100		
226	26.9	22.6	33.8
229	20.9	15.8	23.6





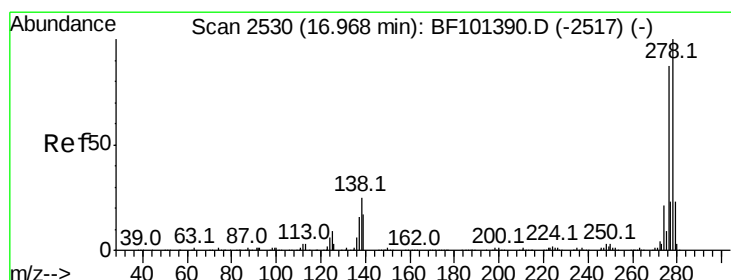
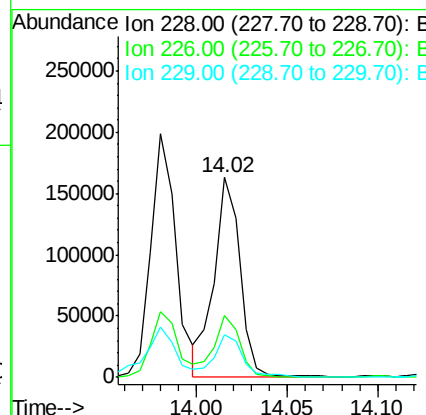
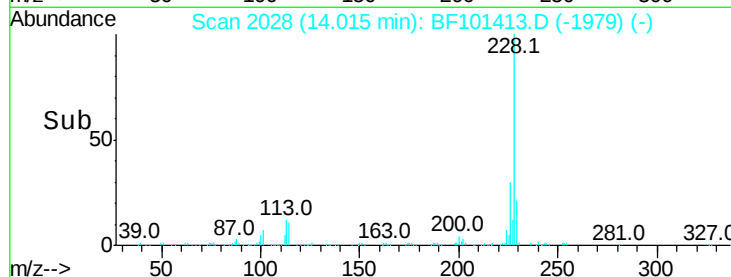
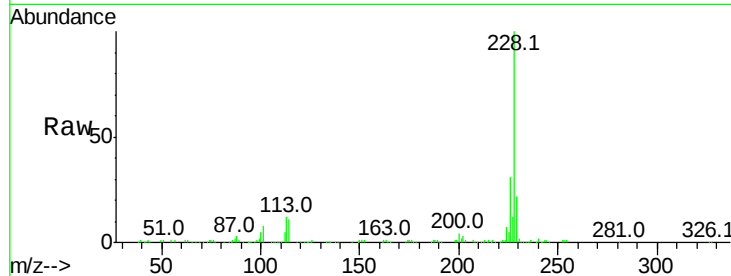
#82
Chrysene
Concen: 6.264 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Instrument :
BNA_F
ClientSampled :
WC-646507-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	21.6	16.2	24.4

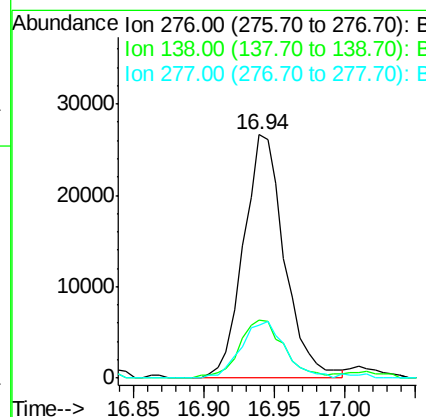
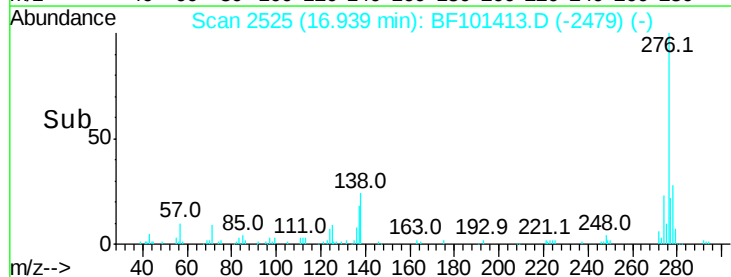
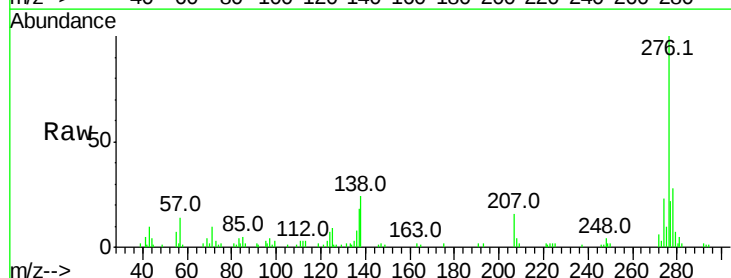
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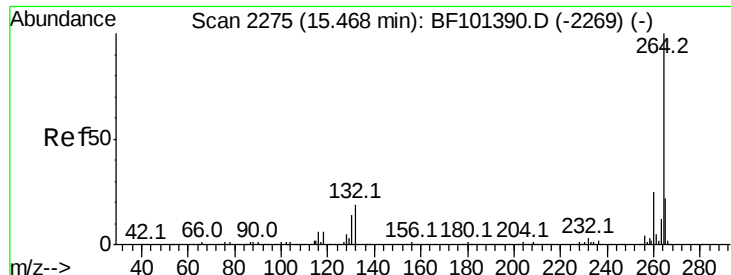
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#85
Indeno(1,2,3-cd)pyrene
Concen: 2.344 ng
RT: 16.94 min Scan# 2525
Delta R.T. -0.03 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.1	25.0	37.6
277	24.9	20.1	30.1





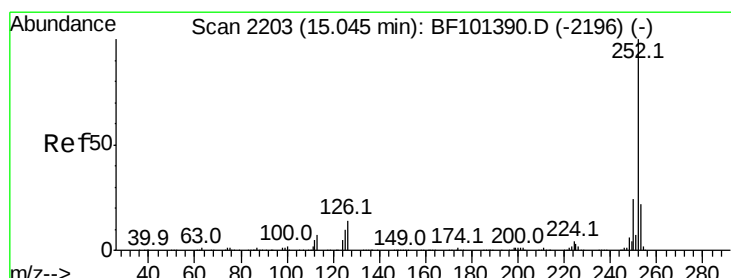
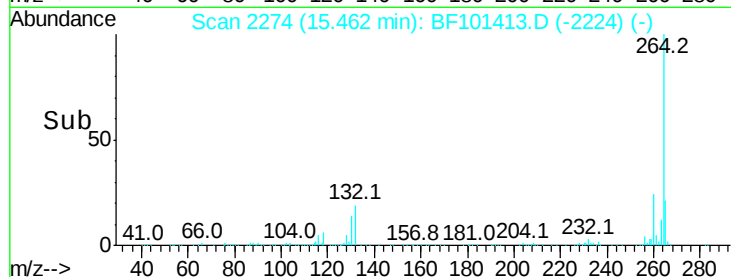
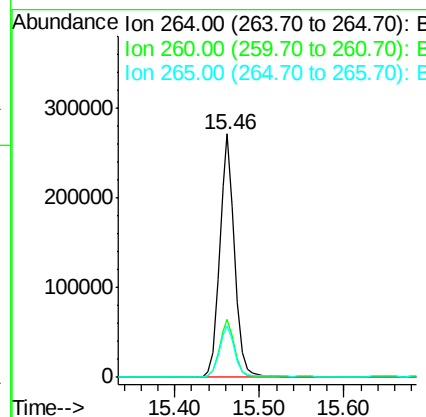
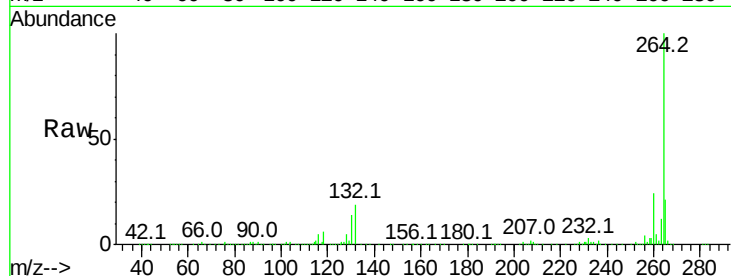
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Instrument :
BNA_F
ClientSampleId :
WC-646507-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.0	17.5	26.3

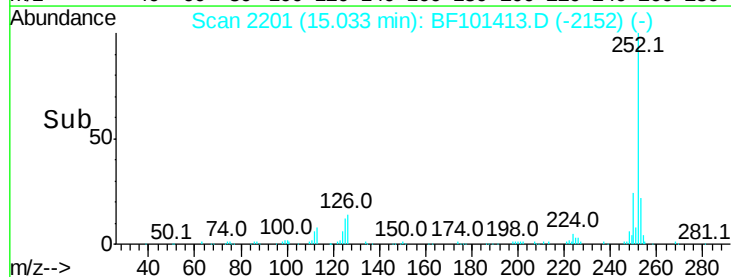
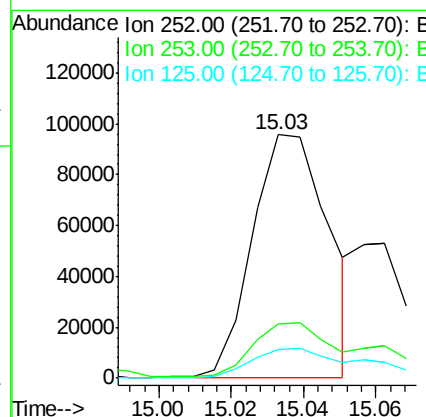
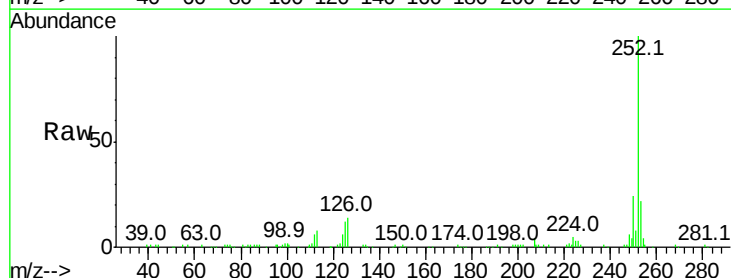
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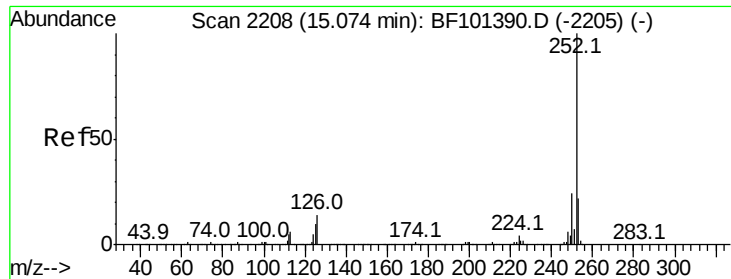
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#87
Benzo(b)fluoranthene
Concen: 6.790 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	11.6	9.0	13.6





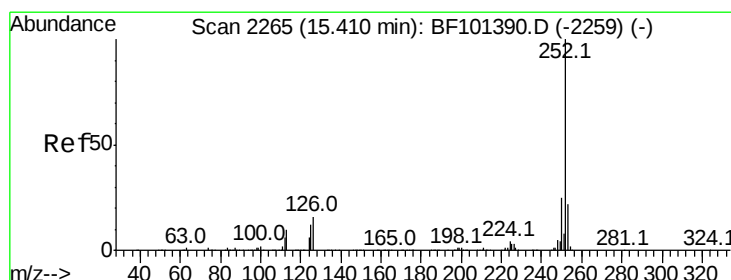
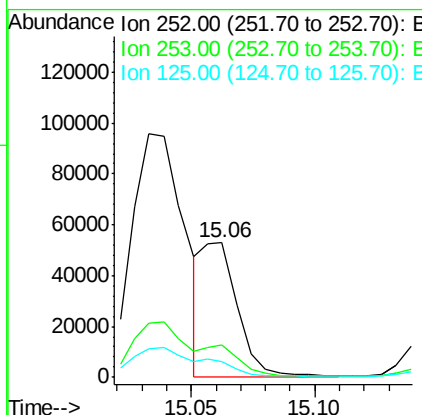
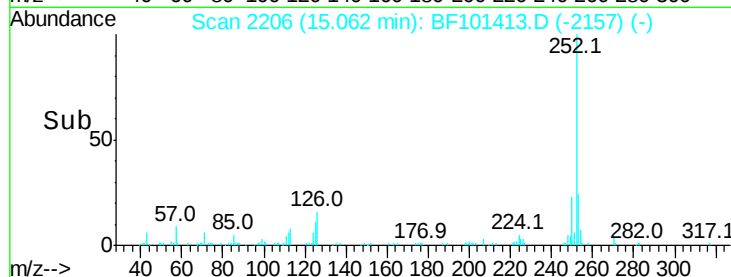
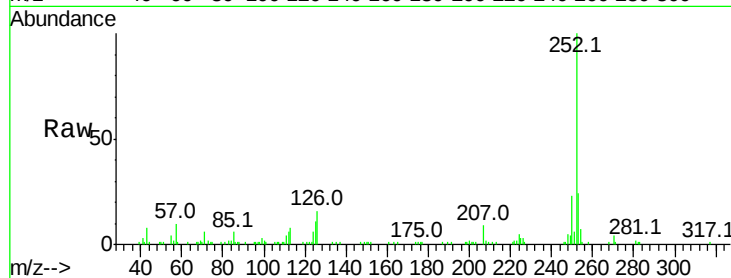
#88
Benzo(k)fluoranthene
Concen: 2.622 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Instrument :
BNA_F
ClientSampleId :
WC-646507-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	11.4	10.2	15.2

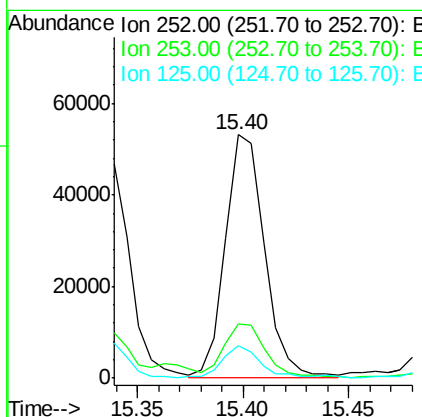
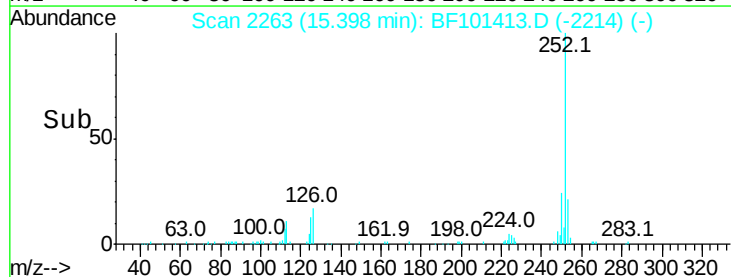
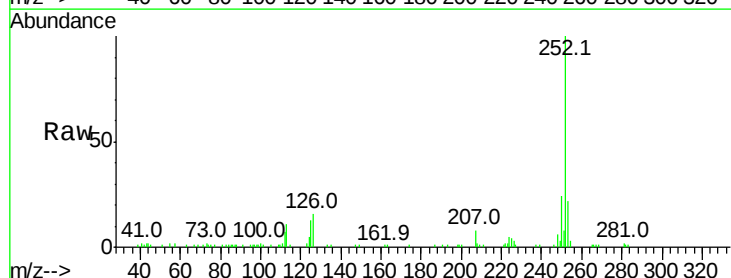
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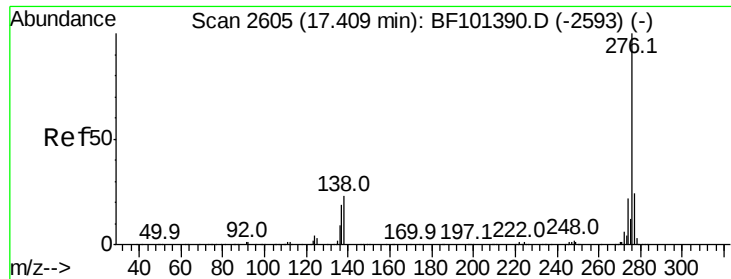
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#89
Benzo(a)pyrene
Concen: 3.616 ng
RT: 15.40 min Scan# 2263
Delta R.T. -0.01 min
Lab File: BF101413.D
Acq: 15 Dec 2017 00:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	13.1	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 2.750 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.02 min
 Lab File: BF101413.D
 Acq: 15 Dec 2017 00:17

Instrument :
 BNA_F
 ClientSampleId :
 WC-646507-01

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.3	17.9	26.9
138	25.5	21.8	32.8

Manual Integrations
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