

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
 Data File : BF100981.D
 Acq On : 29 Nov 2017 16:44
 Operator : SJ/JU
 Sample : I6612-01 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-3460

Manual Integrations
 APPROVED

Sohil
 11/30/2017 4:29:49 PM

Quant Time: Nov 30 06:22:35 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	64481	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	257786	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	114478	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	181349	20.00	ng	0.00
75) Chrysene-d12	14.04	240	114663	20.00	ng	0.01
86) Perylene-d12	15.51	264	118624	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	207116	51.49	ng	0.00
7) Phenol-d6	6.48	99	254791	51.37	ng	-0.01
23) Nitrobenzene-d5	7.42	82	152408	39.09	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	60589	51.94	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	311705	41.46	ng	0.00
78) Terphenyl-d14	12.96	244	210492	42.18	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	234833	18.913	ng	98
37) 2-Methylnaphthalene	8.85	142	147907	17.943	ng	99
45) 1,1'-Biphenyl	9.31	154	44297	4.474	ng	97
48) Acenaphthylene	9.75	152	172472	14.489	ng	98
51) Acenaphthene	9.92	154	125739	17.368	ng	98
54) Dibenzofuran	10.10	168	231149	22.780	ng	97
57) Fluorene	10.45	166	392370	52.786	ng	99
70) Phenanthrene	11.43	178	2346956	245.799	ng	99
71) Anthracene	11.46	178	580343	59.908	ng	99
72) Carbazole	11.61	167	217872	24.375	ng	99
74) Fluoranthene	12.62	202	2409947	238.152	ng	98
77) Pylene	12.85	202	2127370	260.273	ng	100
80) Benzo(a)anthracene	14.03	228	1152463	166.904	ng	97
82) Chrysene	14.07	228	995282	148.849	ng	98
85) Indeno(1,2,3-cd)pyrene	17.01	276	444858	82.253	ng	# 89
87) Benzo(b)fluoranthene	15.09	252	1130072m	160.799	ng	
88) Benzo(k)fluoranthene	15.11	252	350533m	52.789	ng	
89) Benzo(a)pyrene	15.46	252	771609	123.845	ng	96
90) Dibenzo(a,h)anthracene	17.01	278	120502	23.650	ng	93
91) Benzo(a,h,i)perylene	17.46	276	422456	84.699	ng	# 91

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

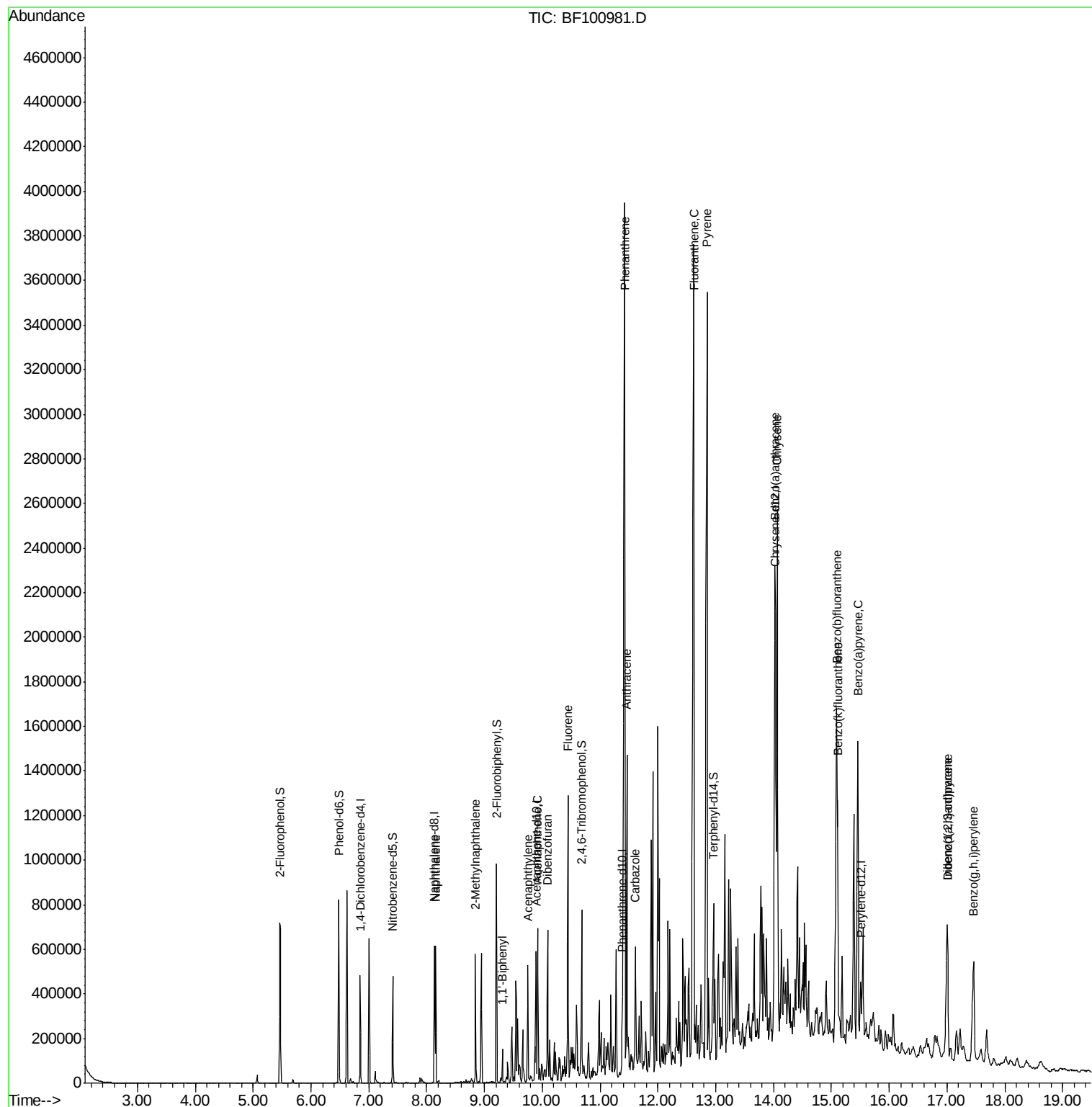
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
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#1

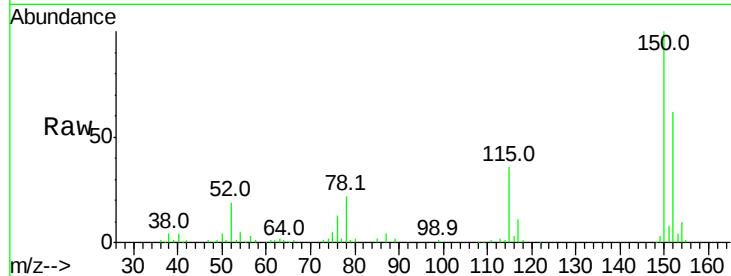
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.8	124.6	186.8
115	57.7	50.1	75.1

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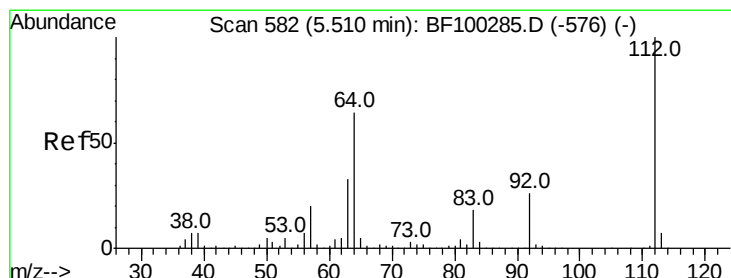
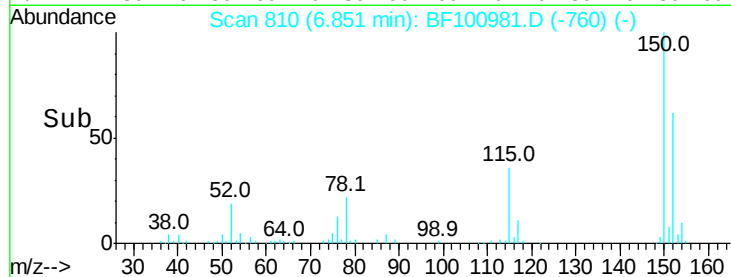
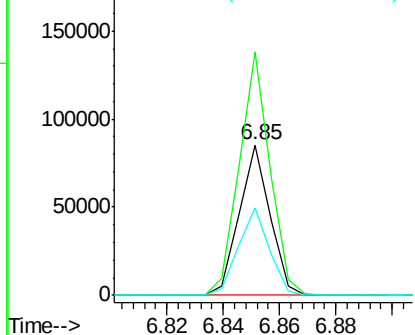


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

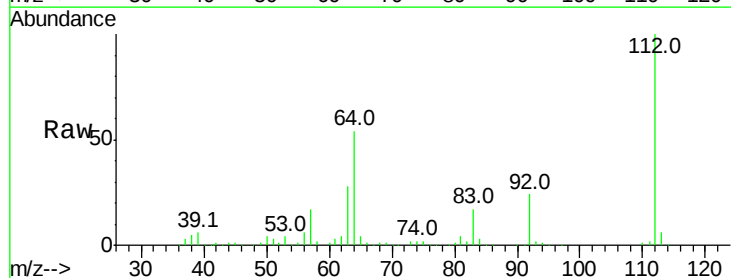
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 51.489 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	47.9	71.9
63	28.0	23.7	35.5

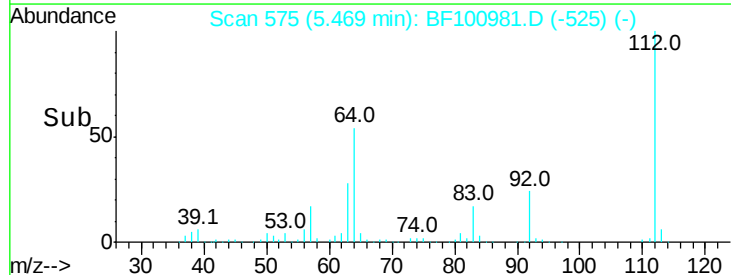
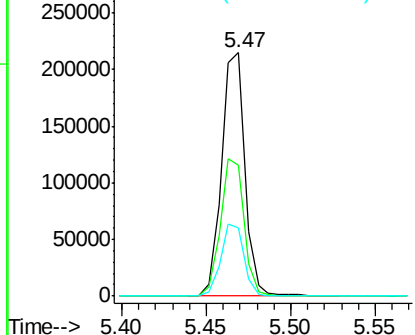


Abundance

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: 51.366 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

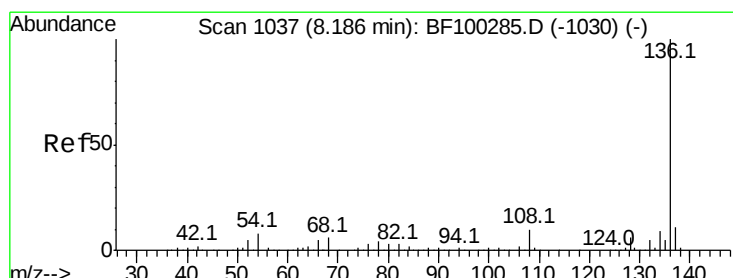
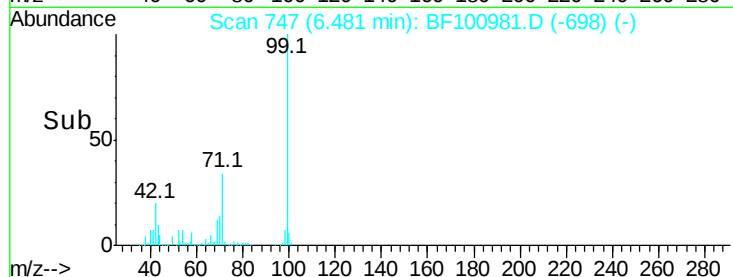
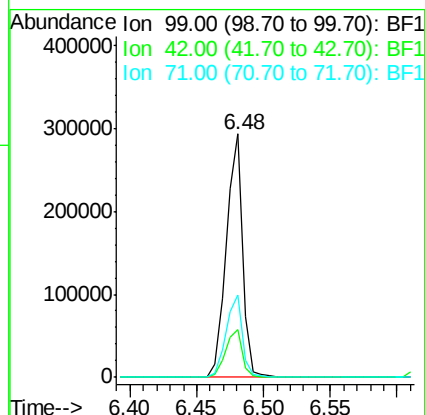
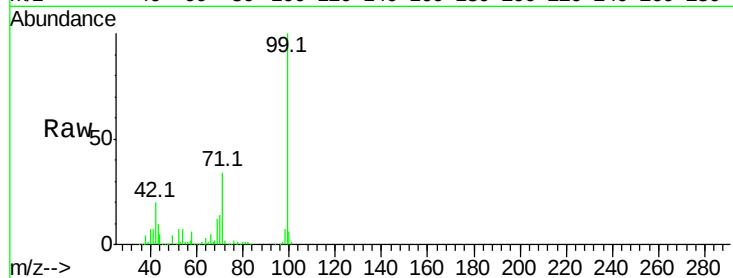
ClientSampleId :

RT-3460

Tot Ion:	99	Resp:	254791
Ion Ratio	Lower	Upper	
99	100		
42	19.5	14.5	21.7
71	33.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

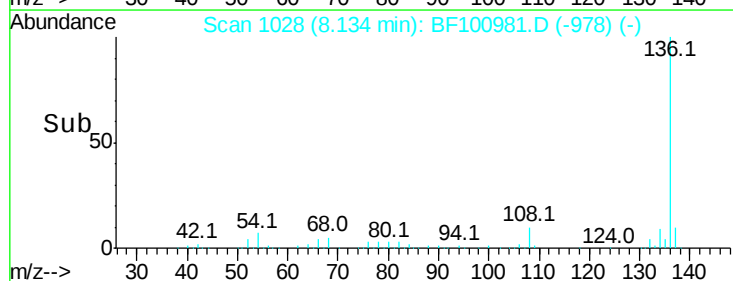
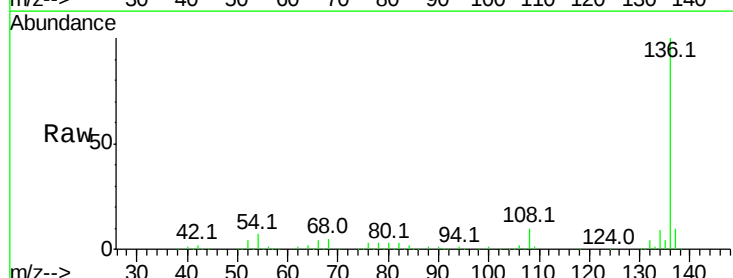
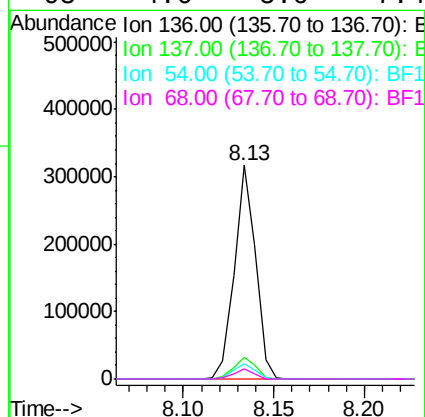
RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Tgt Ion:	136	Resp:	257786
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.9	13.3
54	7.4	6.6	9.8
68	4.6	5.0	7.4#





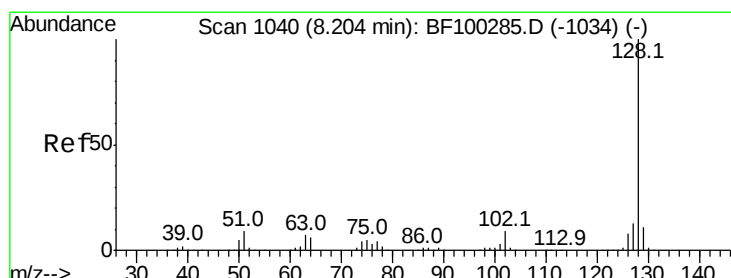
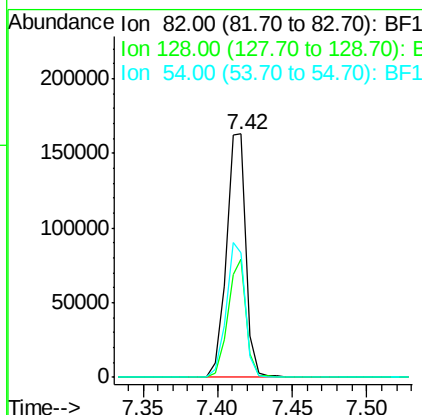
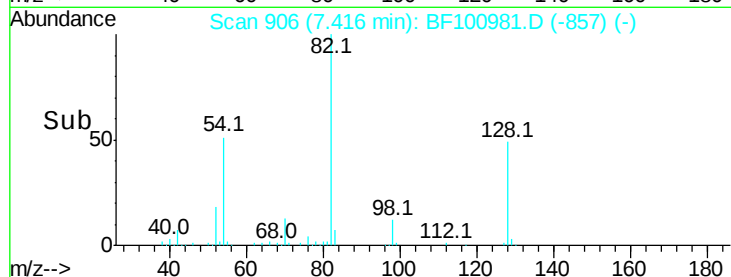
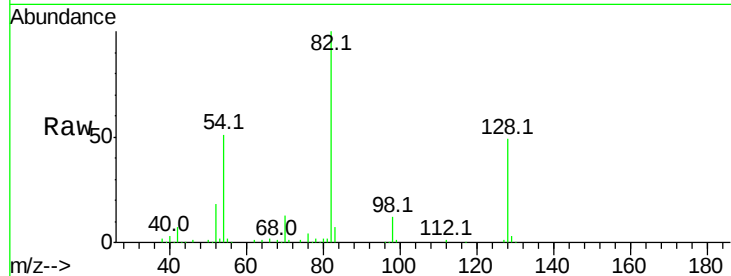
#23
Nitrobenzene-d5
Concen: 39.087 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampled :
RT-3460

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.6	36.1	54.1
54	51.0	41.4	62.2

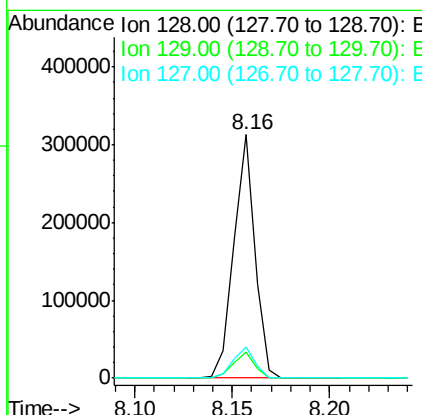
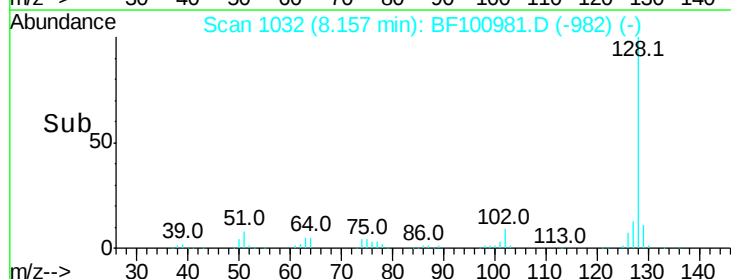
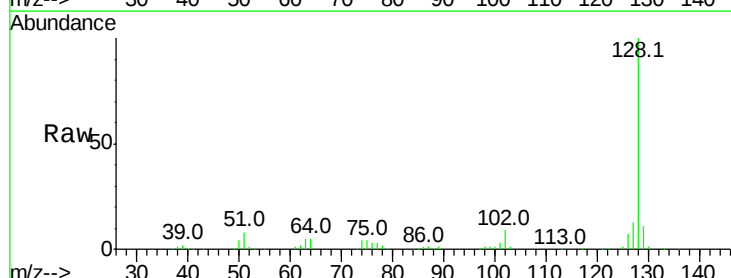
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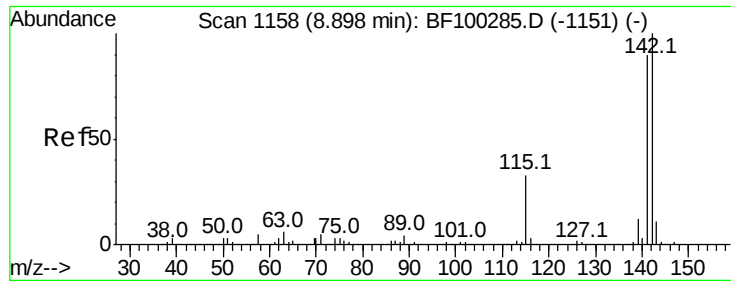
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#31
Naphthalene
Concen: 18.913 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	12.5	10.9	16.3





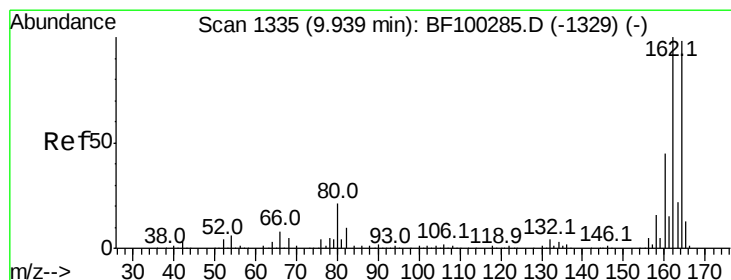
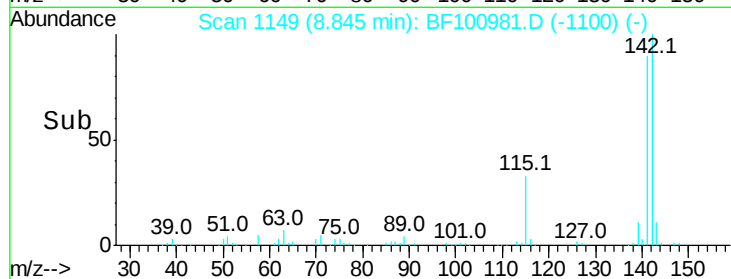
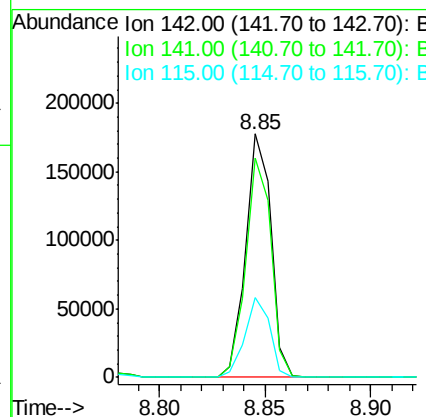
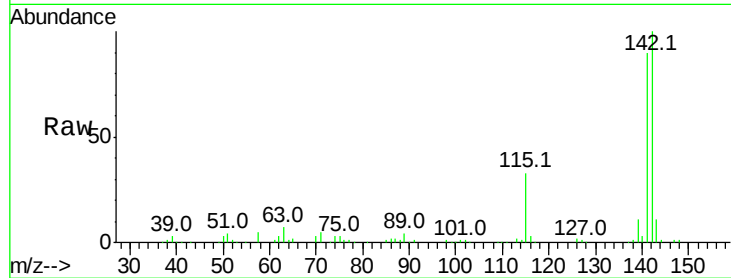
#37
2-Methylnaphthalene
Concen: 17.943 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.8	106.2
115	32.5	26.1	39.1

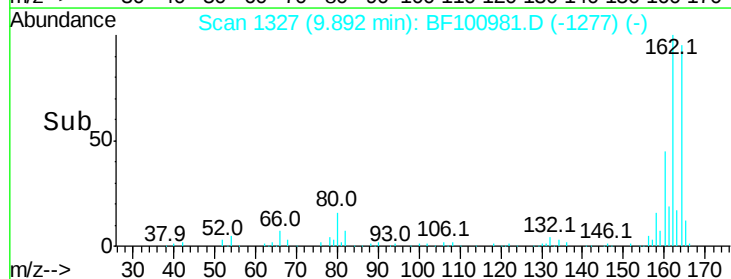
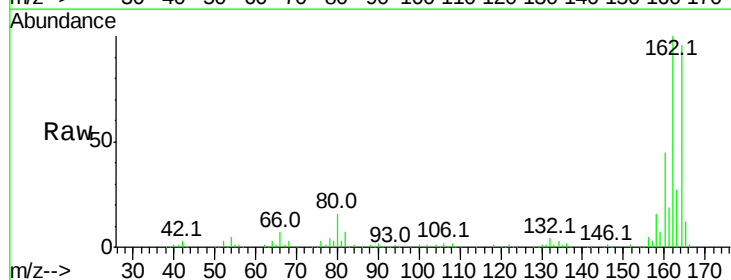
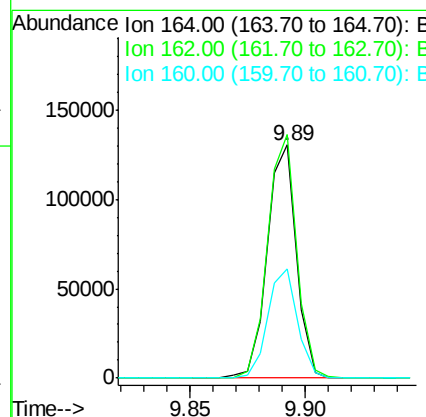
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	86.1	129.1
160	46.9	38.3	57.5





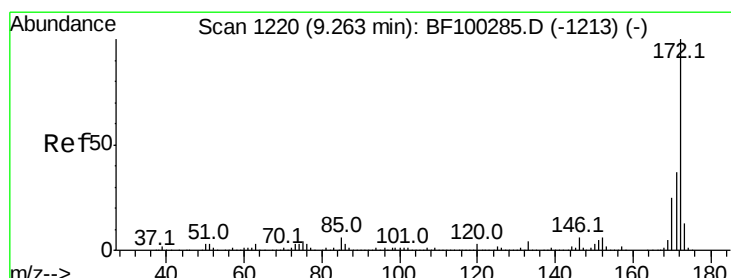
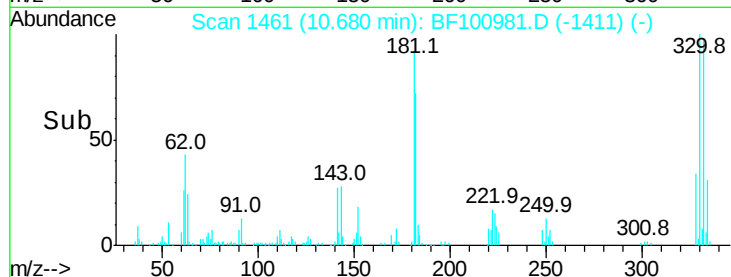
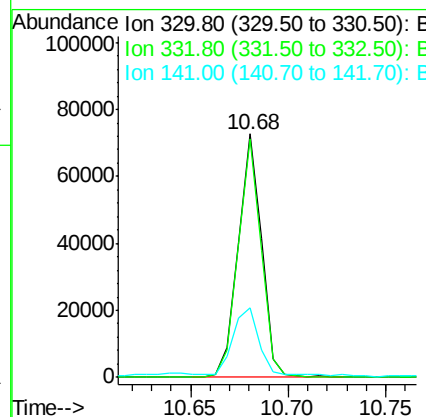
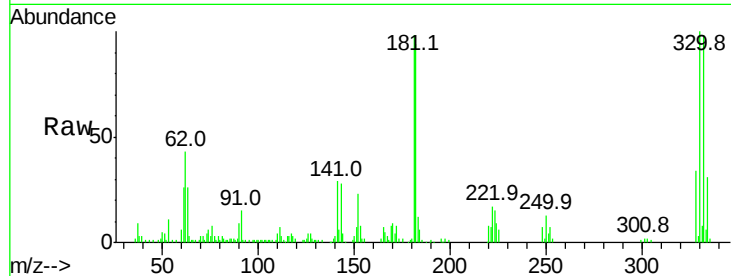
#41
 2,4,6-Tribromophenol
 Concen: 51.939 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF100981.D
 Acq: 29 Nov 2017 16:44

Instrument :
 BNA_F
 ClientSampled :
 RT-3460

Tot Ion	Ratio	Resp	Lower	Upper
330	100	60589		
332	95.8	77.0	115.6	
141	36.6	29.9	44.9	

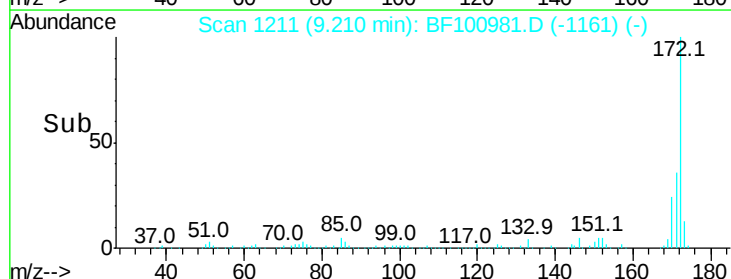
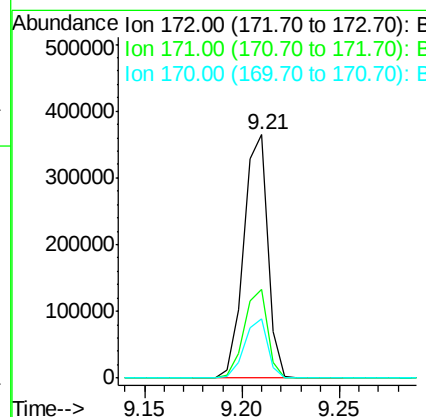
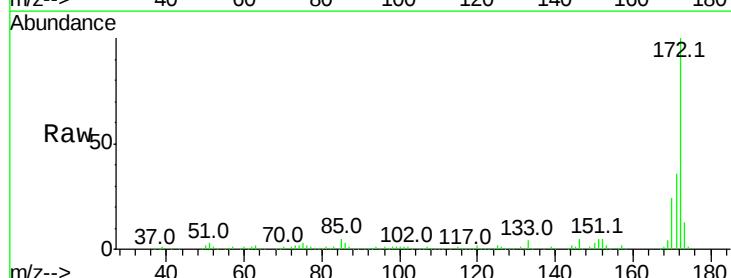
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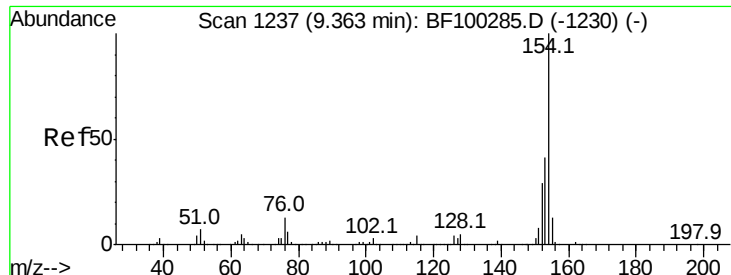
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#44
 2-Fluorobiphenyl
 Concen: 41.461 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF100981.D
 Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	311705		
171	36.2	29.7	44.5	
170	24.3	19.6	29.4	





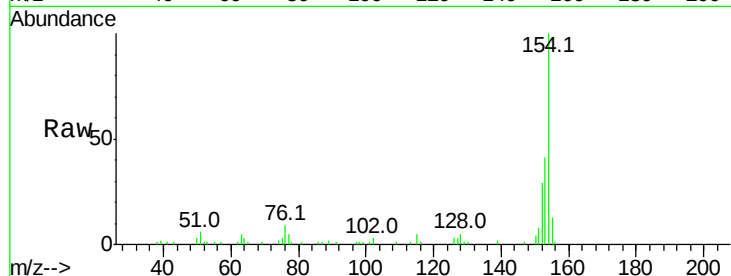
#45
1,1'-Biphenyl
Concen: 4.474 ng
RT: 9.31 min Scan# 1228
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

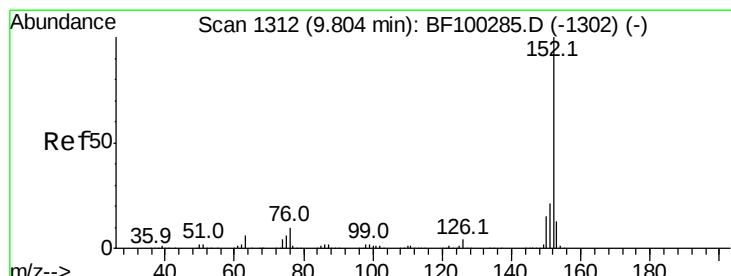
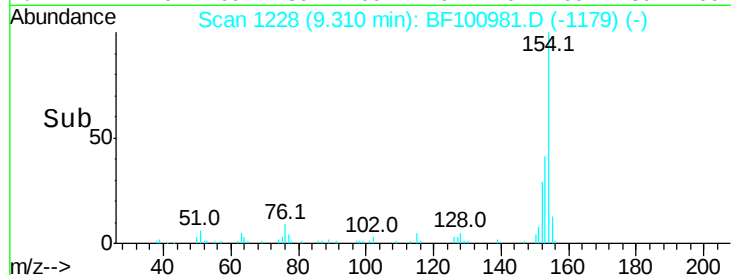
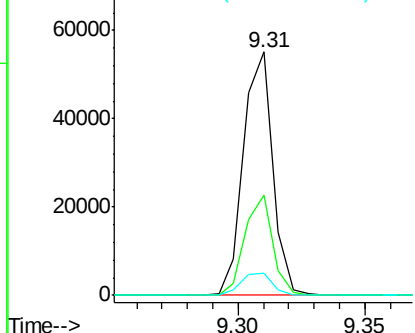
Tot Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.3	61.3
76	9.3	0.0	34.0

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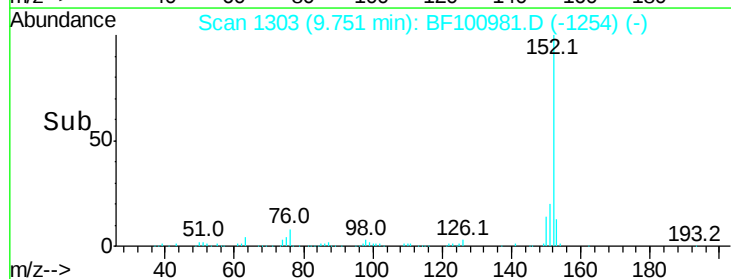
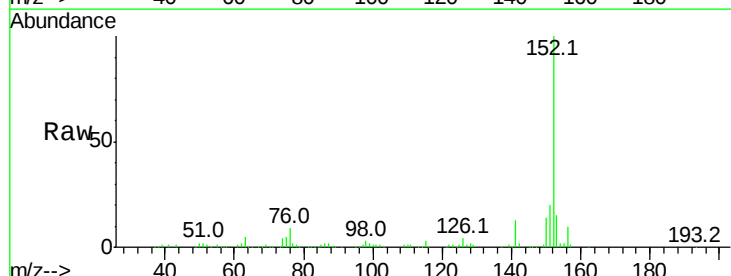
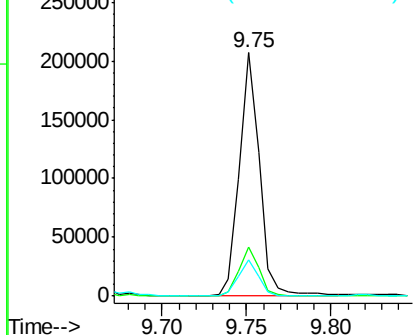
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1

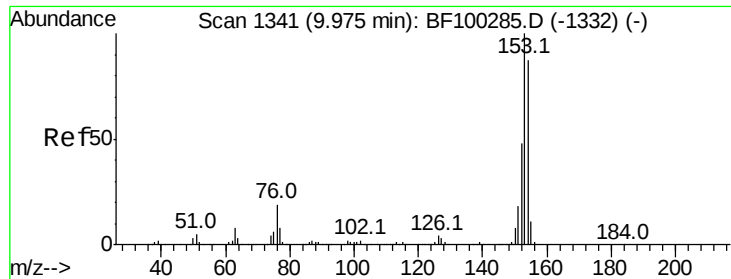


#48
Acenaphthylene
Concen: 14.489 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	14.9	10.7	16.1

Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 17.368 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

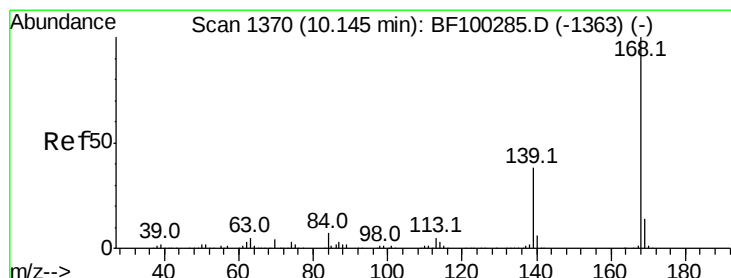
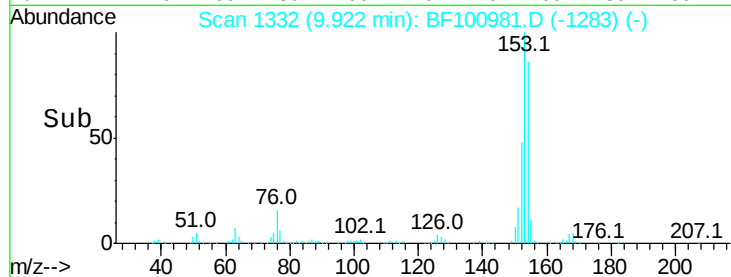
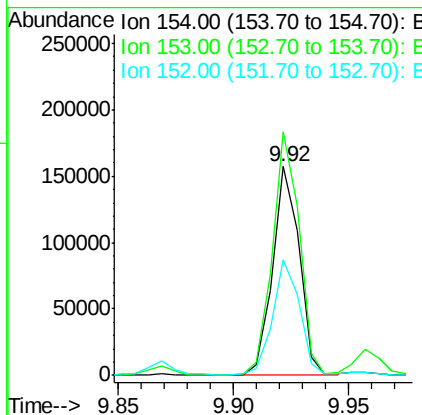
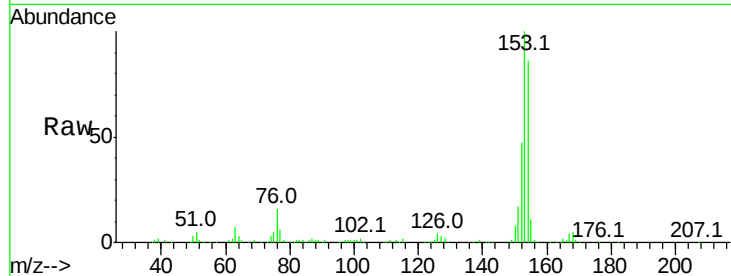
ClientSampled :

RT-3460

Tot Ion:	154	Resp:	125739
Ion Ratio	Lower	Upper	
154	100		
153	116.6	91.2	136.8
152	55.3	43.8	65.8

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#54

Dibenzofuran

Concen: 22.780 ng

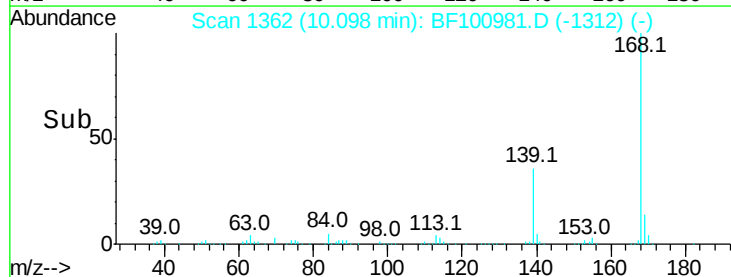
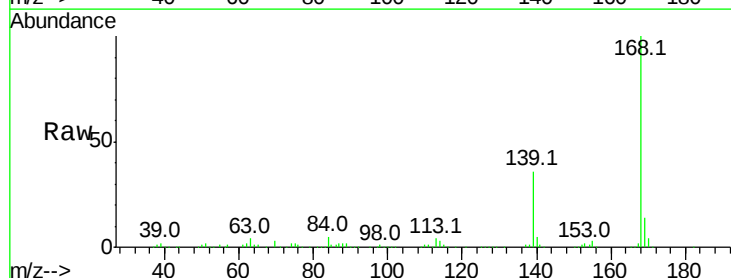
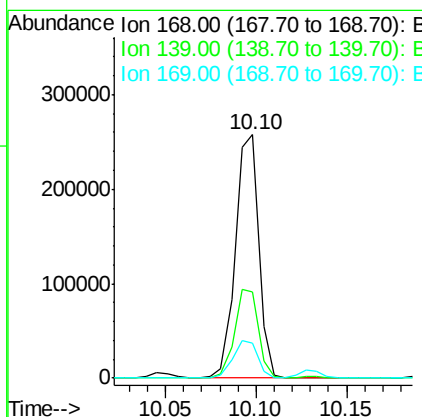
RT: 10.10 min Scan# 1362

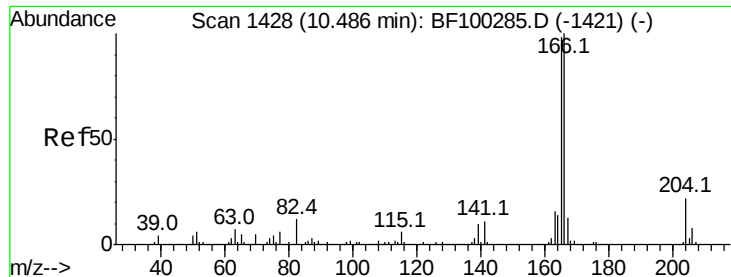
Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Tgt Ion:	168	Resp:	231149
Ion Ratio	Lower	Upper	
168	100		
139	35.5	30.1	45.1
169	14.4	10.9	16.3





#57

Fluorene

Concen: 52.786 ng

RT: 10.45 min Scan# 1421

Delta R.T. 0.00 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

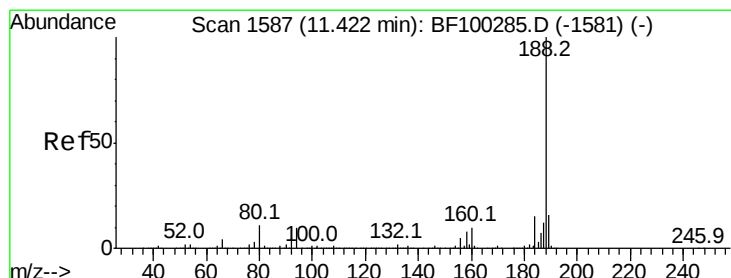
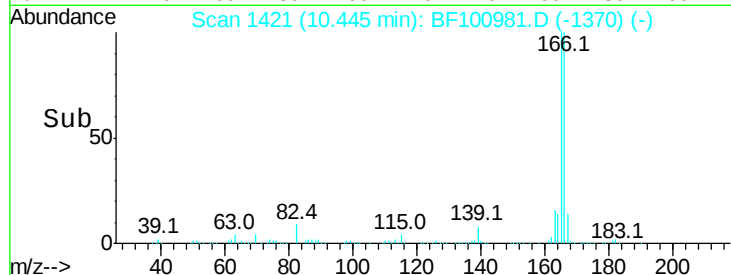
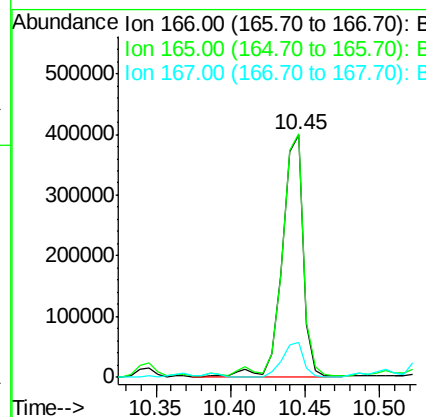
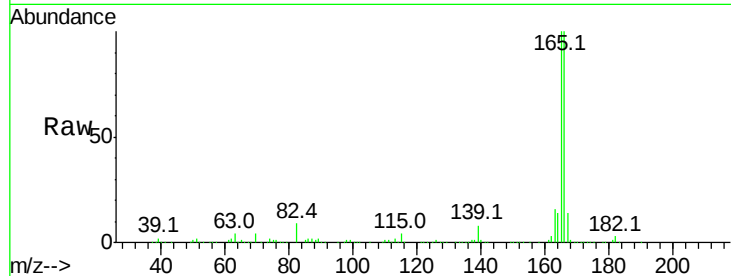
ClientSampled :

RT-3460

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.3	79.8	119.8	
167	14.5	10.6	16.0	

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

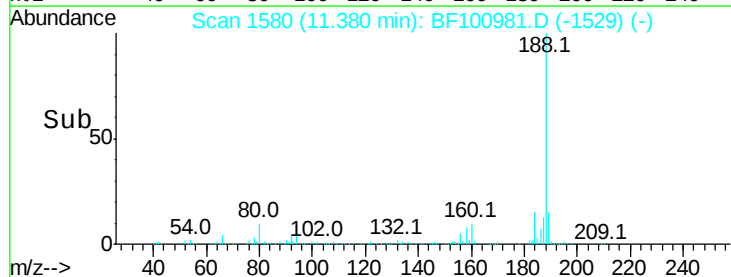
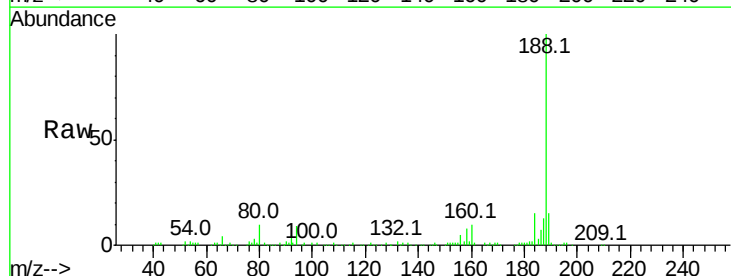
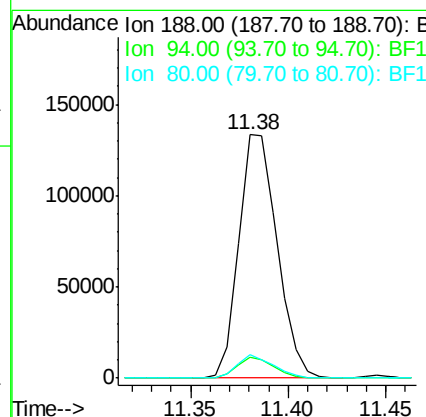
RT: 11.38 min Scan# 1580

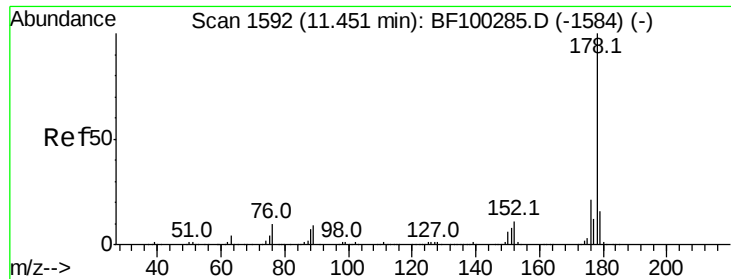
Delta R.T. 0.00 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.8	8.5	12.7	
80	9.5	9.2	13.8	





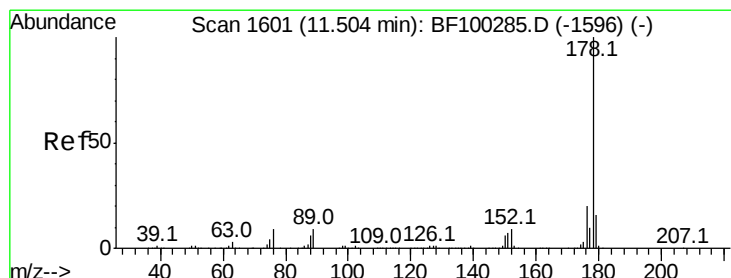
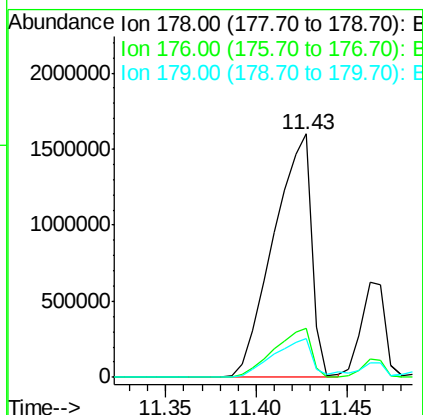
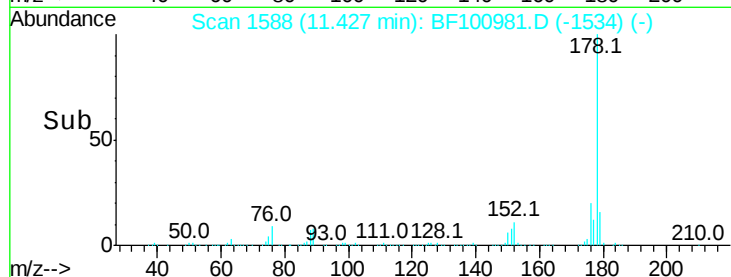
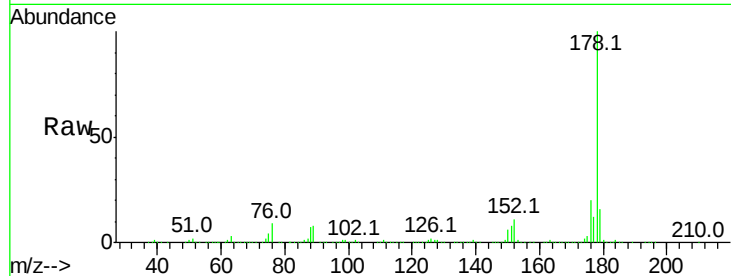
#70
Phenanthrene
Concen: 245.799 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.02 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

Tot Ion:178 Resp: 2346956
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.0 13.0 19.6

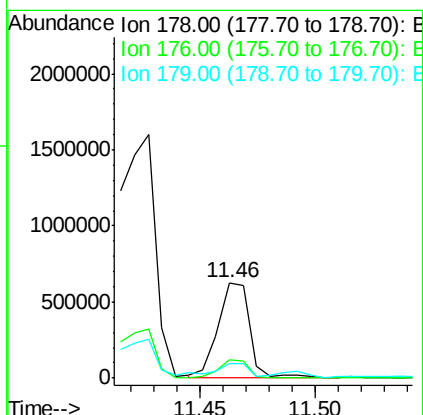
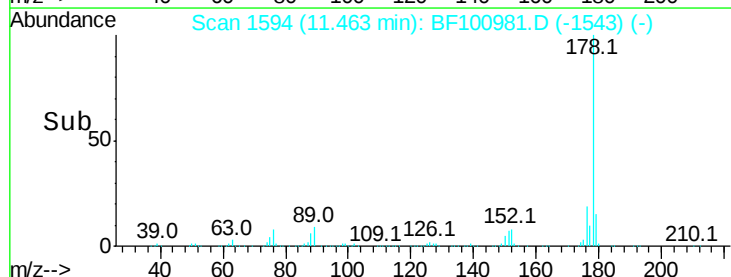
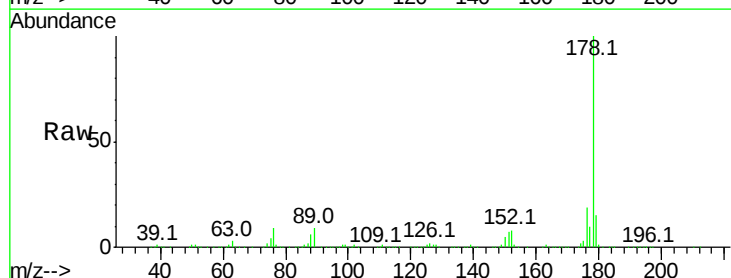
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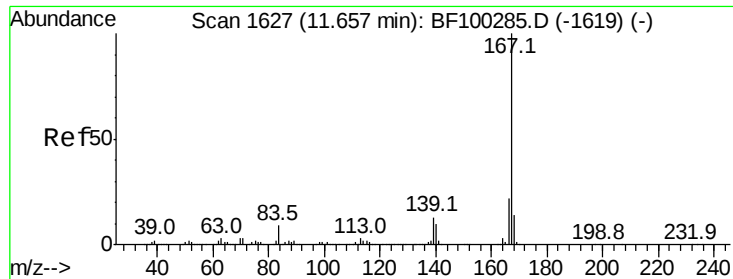
Sohil
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#71
Anthracene
Concen: 59.908 ng
RT: 11.46 min Scan# 1594
Delta R.T. 0.00 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion:178 Resp: 580343
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.5 12.6 19.0





#72

Carbazole

Concen: 24.375 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

ClientSampleId :

RT-3460

Tot Ion:167 Resp: 217872

Ion Ratio Lower Upper

167 100

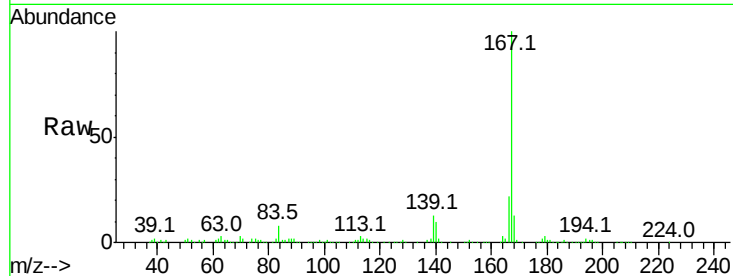
166 21.8 17.6 26.4

139 12.7 10.9 16.3

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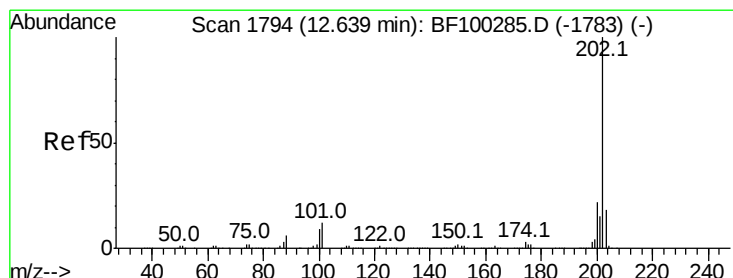
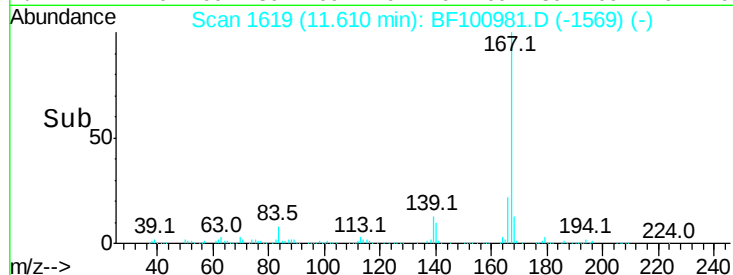
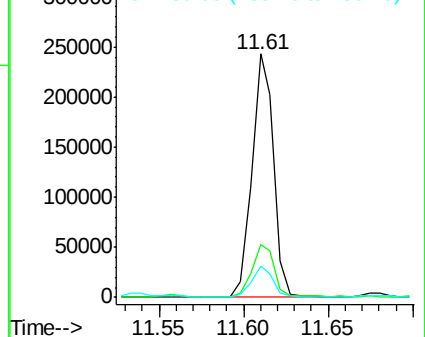
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 238.152 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.02 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

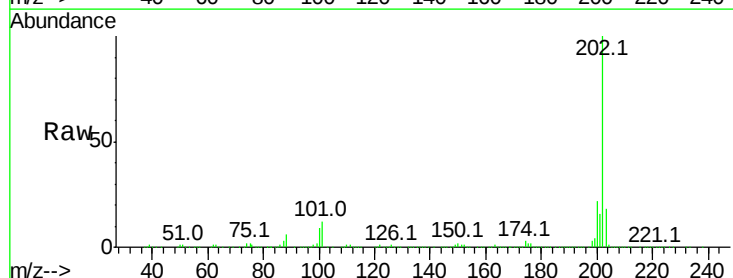
Tgt Ion:202 Resp: 2409947

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.1

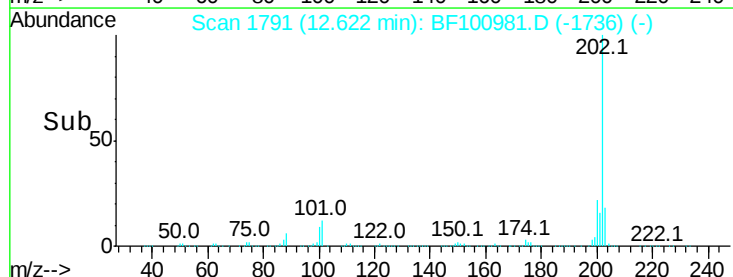
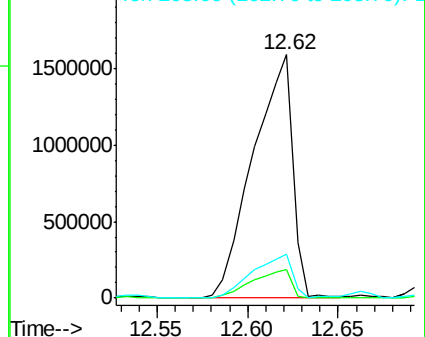
203 18.0 0.0 38.1

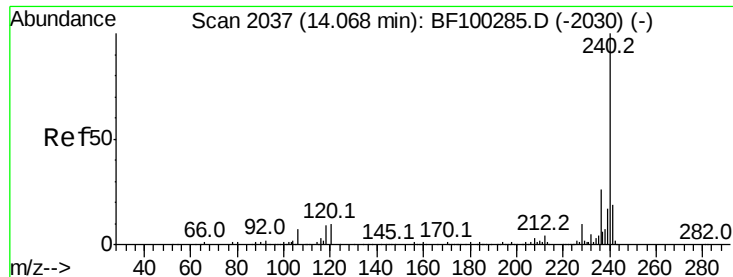


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

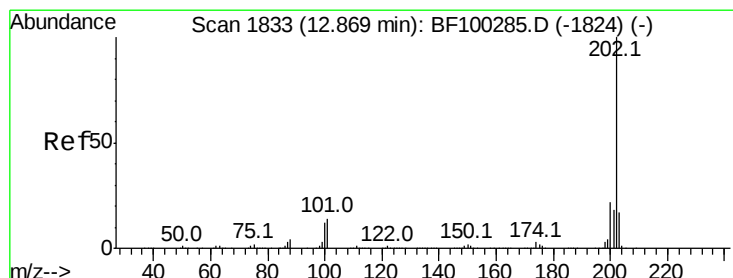
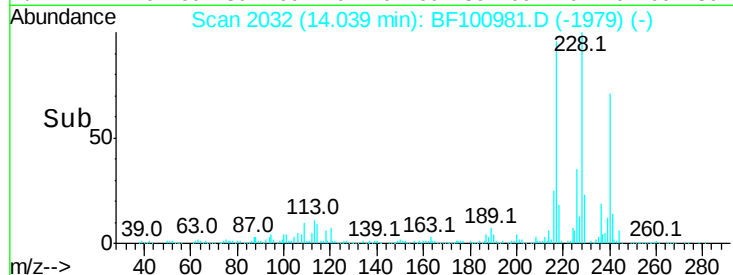
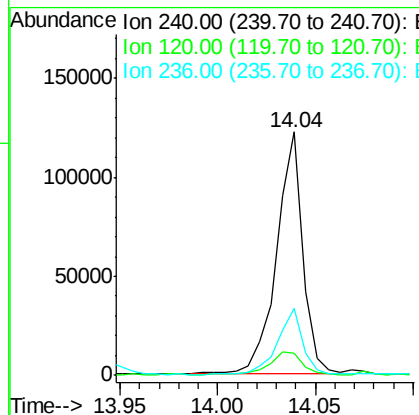
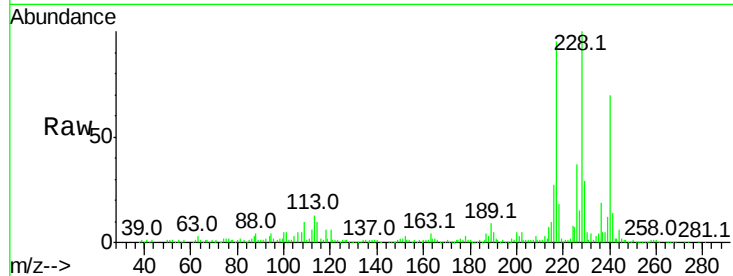
ClientSampleId :

RT-3460

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.3	9.5	14.3#
236	27.7	20.7	31.1

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#77

Pyrene

Concen: 260.273 ng

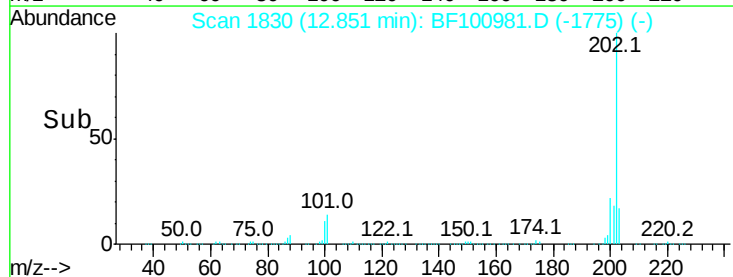
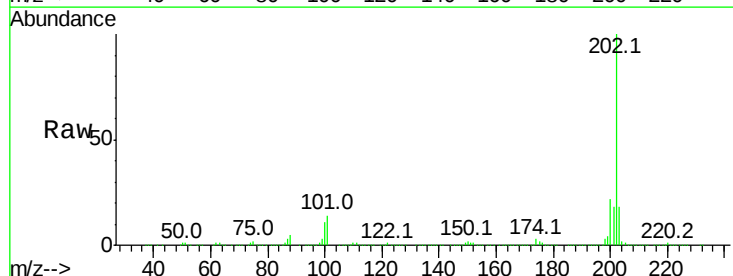
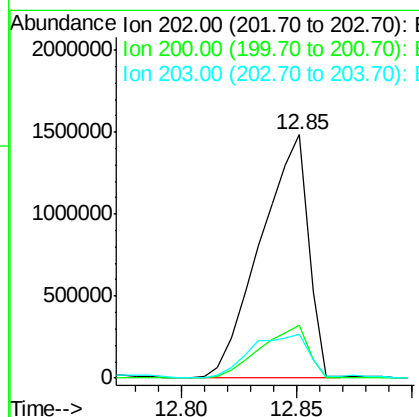
RT: 12.85 min Scan# 1830

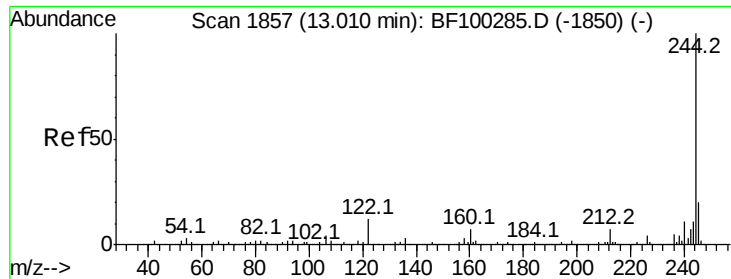
Delta R.T. 0.02 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 42.180 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Instrument :

BNA_F

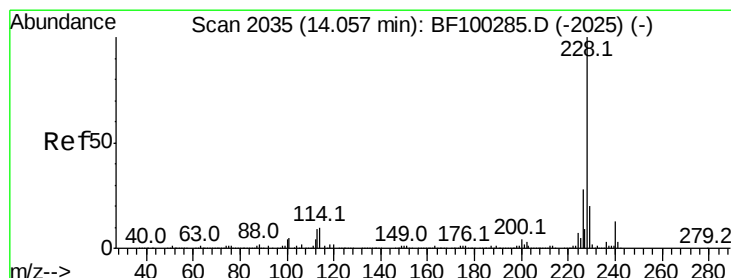
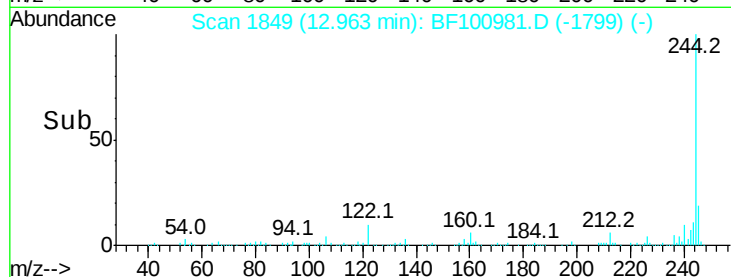
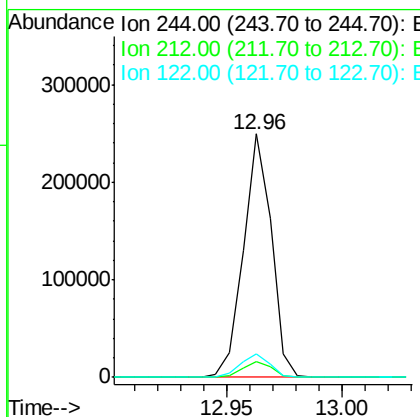
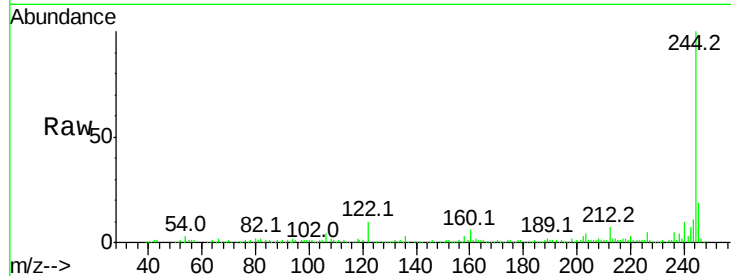
ClientSampleId :

RT-3460

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	9.8	11.0	16.4#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 166.904 ng

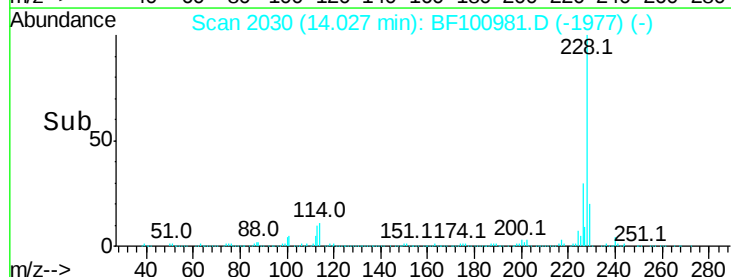
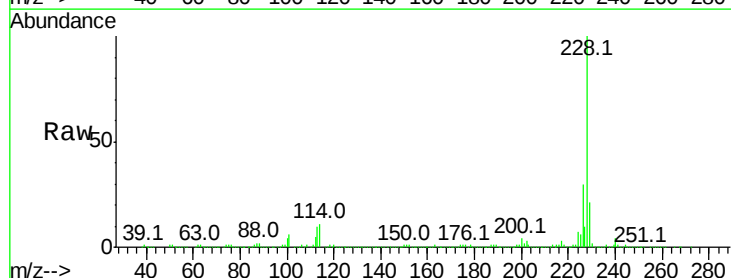
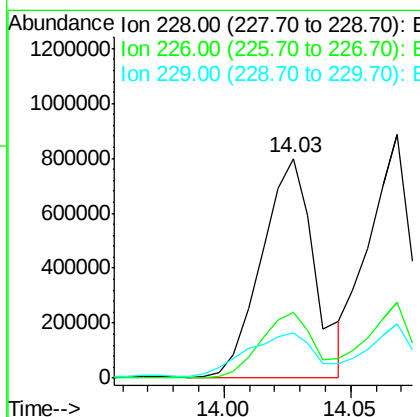
RT: 14.03 min Scan# 2030

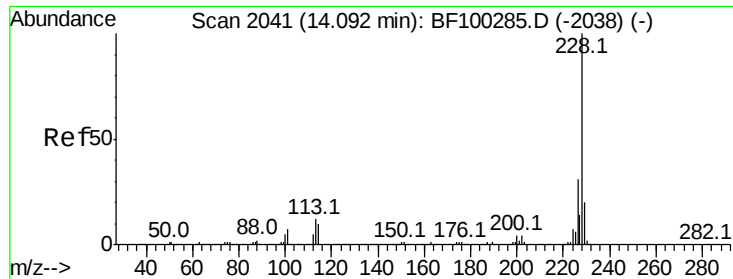
Delta R.T. 0.01 min

Lab File: BF100981.D

Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	20.5	15.8	23.6





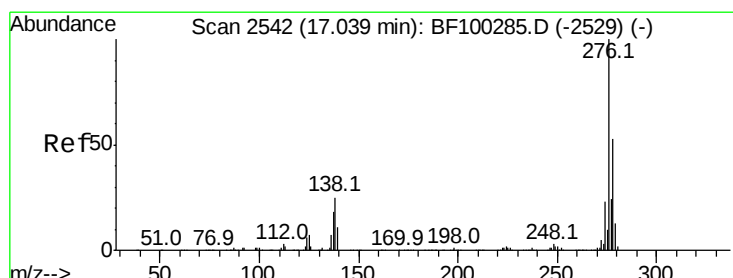
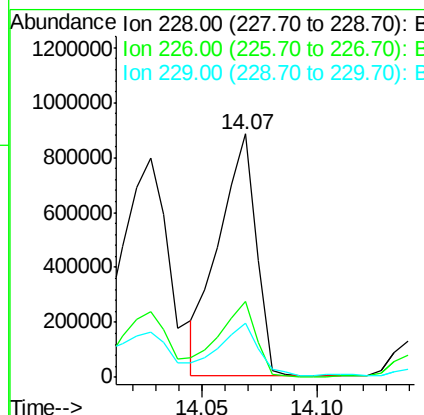
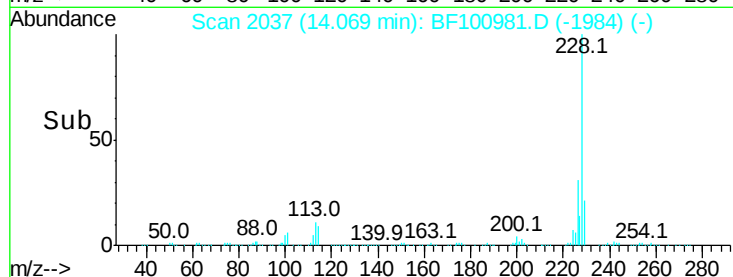
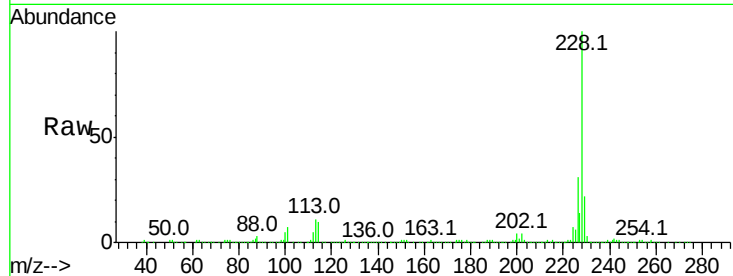
#82
Chrysene
Concen: 148.849 ng
RT: 14.07 min Scan# 2037
Delta R.T. 0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampled :
RT-3460

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.1	16.2	24.4

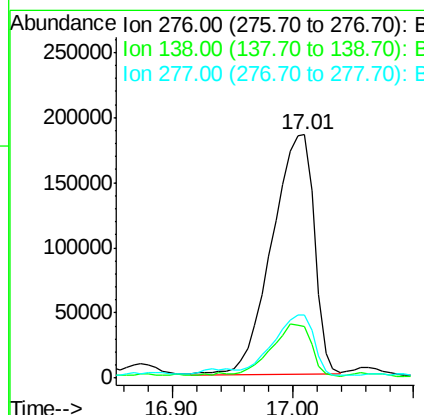
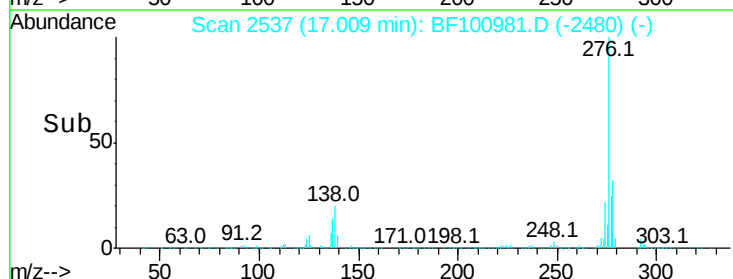
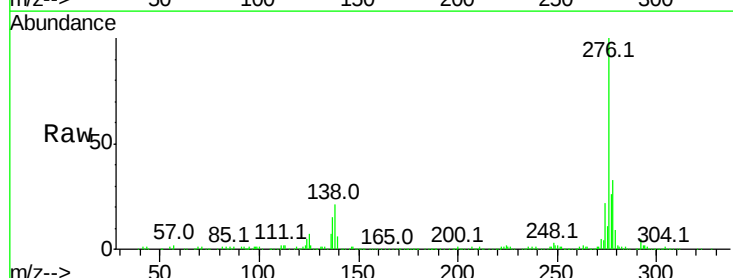
Manual Integrations
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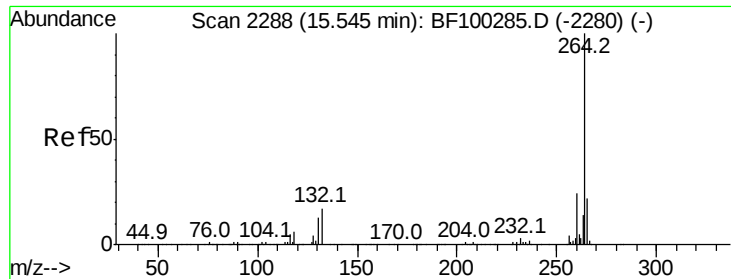
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#85
Indeno(1,2,3-cd)pyrene
Concen: 82.253 ng
RT: 17.01 min Scan# 2537
Delta R.T. 0.04 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.5	25.0	37.6#
277	26.9	20.1	30.1





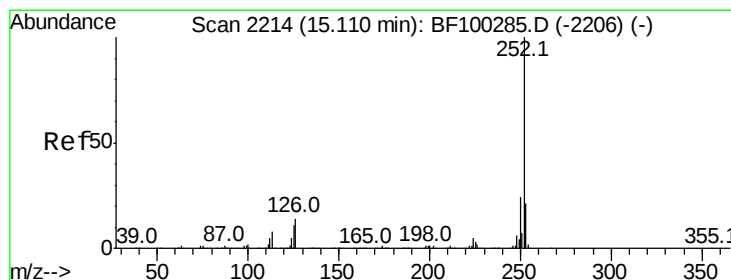
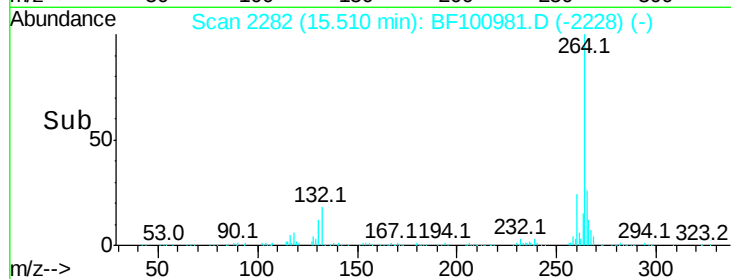
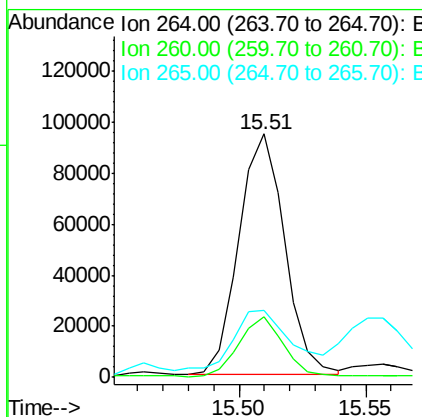
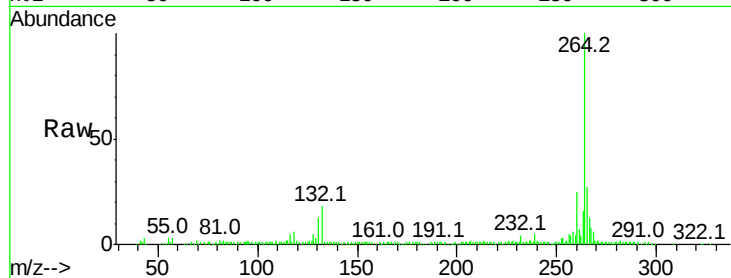
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.02 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.2	28.8
265	27.3	17.5	26.3#

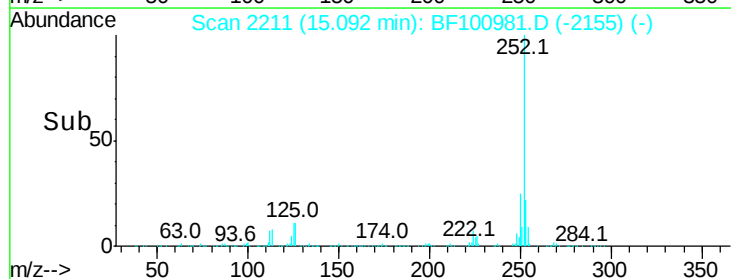
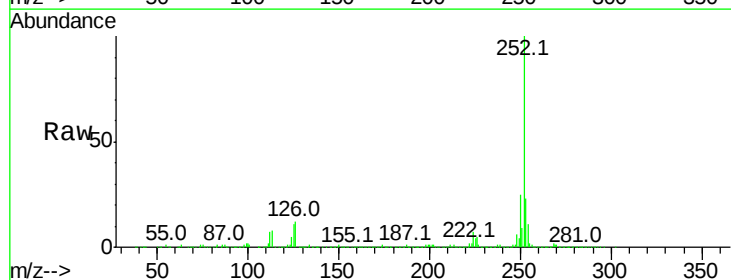
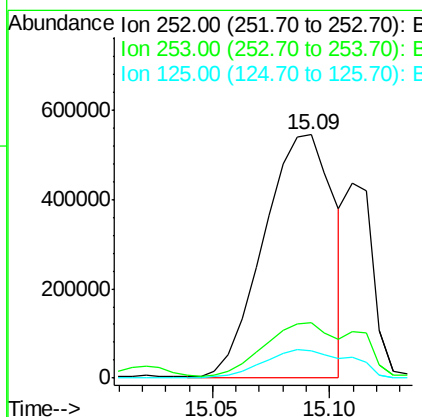
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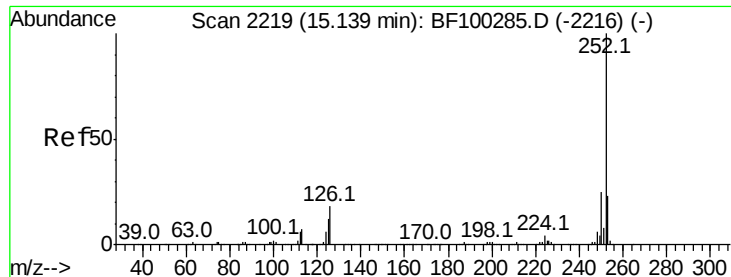
Sohil
11/30/2017 4:29:49 PM



#87
Benzo(b)fluoranthene
Concen: 160.799 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.03 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.0	9.0	13.6





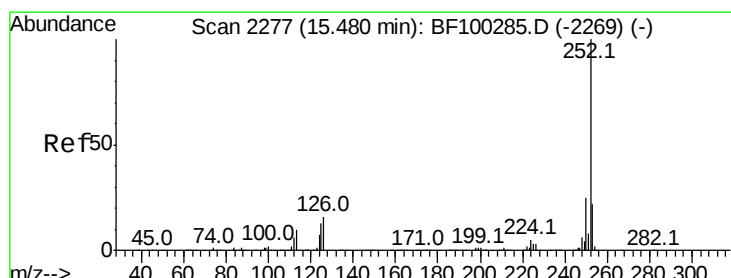
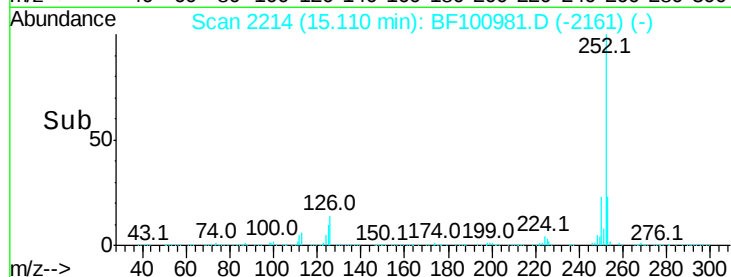
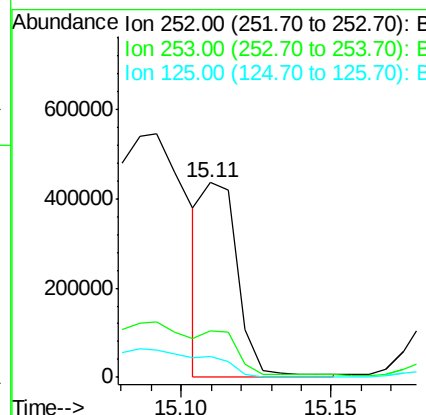
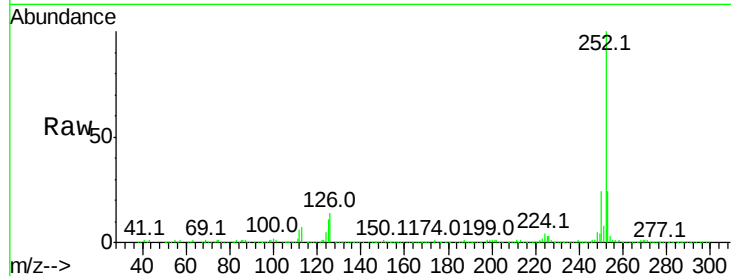
#88
Benzo(k)fluoranthene
Concen: 52.789 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampled :
RT-3460

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	10.7	10.2	15.2

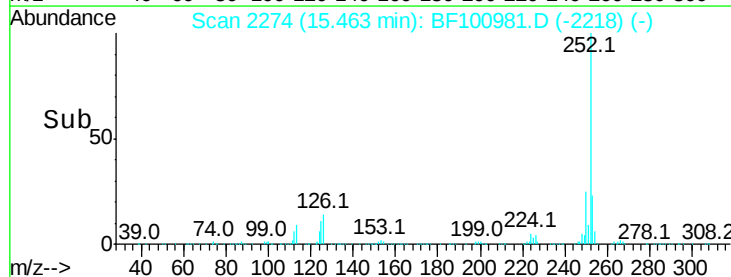
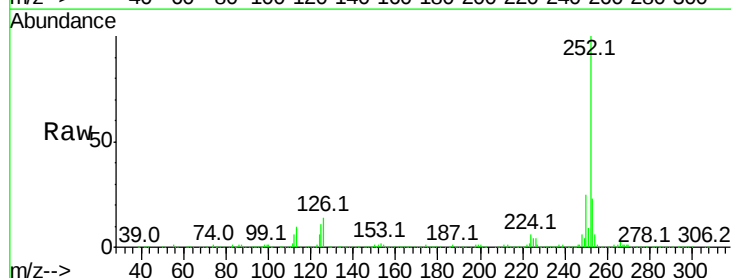
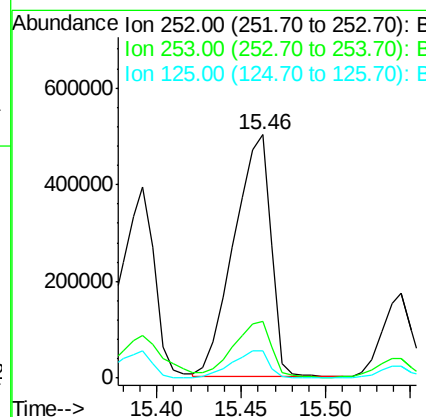
Manual Integrations
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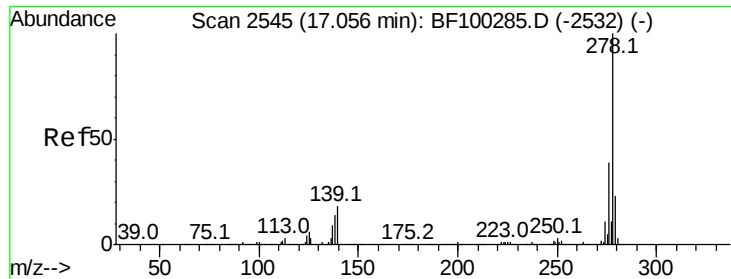
Sohil
11/30/2017 4:29:49 PM



#89
Benzo(a)pyrene
Concen: 123.845 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.03 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	11.4	9.8	14.6





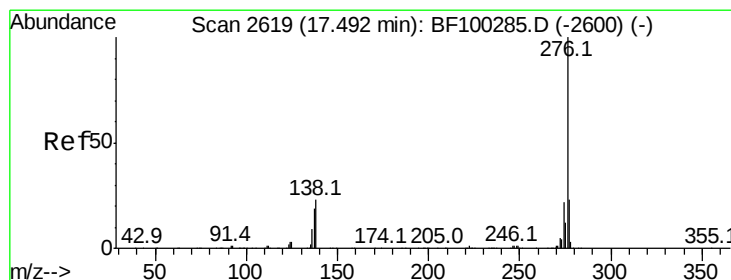
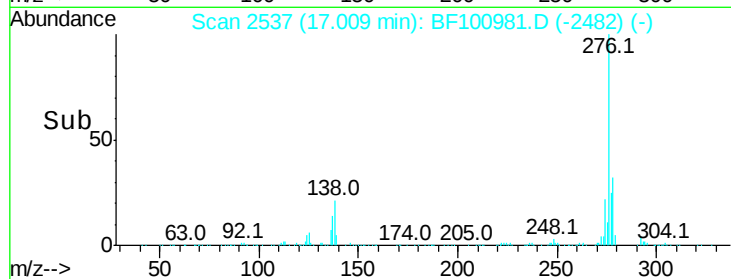
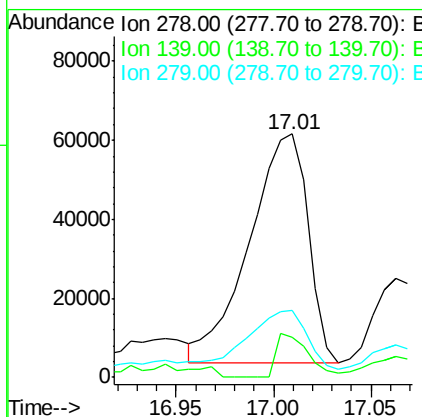
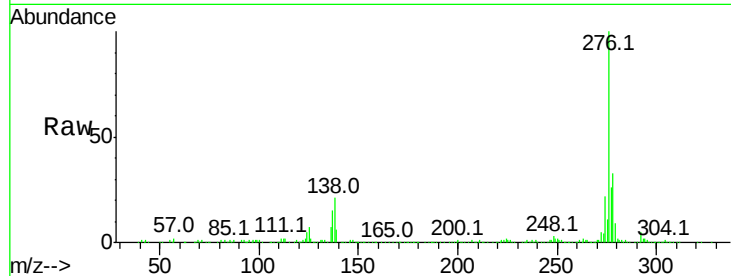
#90
Dibenzo(a,h)anthracene
Concen: 23.650 ng
RT: 17.01 min Scan# 2537
Delta R.T. 0.02 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Instrument :
BNA_F
ClientSampleId :
RT-3460

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.7	15.9	23.9
279	27.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
11/30/2017 4:29:49 PM



#91
Benzo(g,h,i)perylene
Concen: 84.699 ng
RT: 17.46 min Scan# 2614
Delta R.T. 0.04 min
Lab File: BF100981.D
Acq: 29 Nov 2017 16:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	20.8	21.8	32.8#

