

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
 Data File : BF108401.D
 Acq On : 22 Aug 2018 23:27
 Operator : JU/SJ
 Sample : J4580-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RN-SOIL

Manual Integrations
 APPROVED

Sohil
 8/23/2018 3:43:31 PM

Quant Time: Aug 23 06:44:56 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 22 11:01:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	170076	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	621210	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	291700	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	483805	20.00	ng	0.00
75) Chrysene-d12	14.19	240	321837	20.00	ng	0.00
86) Perylene-d12	15.75	264	287540	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	847462	90.21	ng	0.00
7) Phenol-d6	6.62	99	1139130	91.25	ng	0.00
23) Nitrobenzene-d5	7.57	82	738397	66.33	ng	0.00
41) 2,4,6-Tribromophenol	10.84	330	257182	88.39	ng	0.00
44) 2-Fluorobiphenyl	9.36	172	1224362	67.39	ng	0.00
78) Terphenyl-d14	13.13	244	945282	74.68	ng	0.00
Target Compounds						
49) Dimethylphthalate	9.75	163	164116	8.077	ng	99
70) Phenanthrene	11.57	178	280240	12.281	ng	98
71) Anthracene	11.62	178	69853	2.987	ng	97
74) Fluoranthene	12.76	202	530123	21.286	ng	96
77) Pyrene	12.99	202	475777	23.350	ng	98
80) Benzo(a)anthracene	14.18	228	265547	14.377	ng	99
82) Chrysene	14.22	228	245441	14.495	ng	98
85) Indeno(1,2,3-cd)pyrene	17.36	276	116685	7.953	ng	# 86
87) Benzo(b)fluoranthene	15.29	252	335856m	19.547	ng	
88) Benzo(k)fluoranthene	15.31	252	90667m	5.741	ng	
89) Benzo(a)pyrene	15.68	252	221807	14.416	ng	95
90) Dibenzo(a,h)anthracene	17.37	278	30801	2.420	ng	94
91) Benzo(a,h,i)perylene	17.85	276	107944	8.611	ng	# 89

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

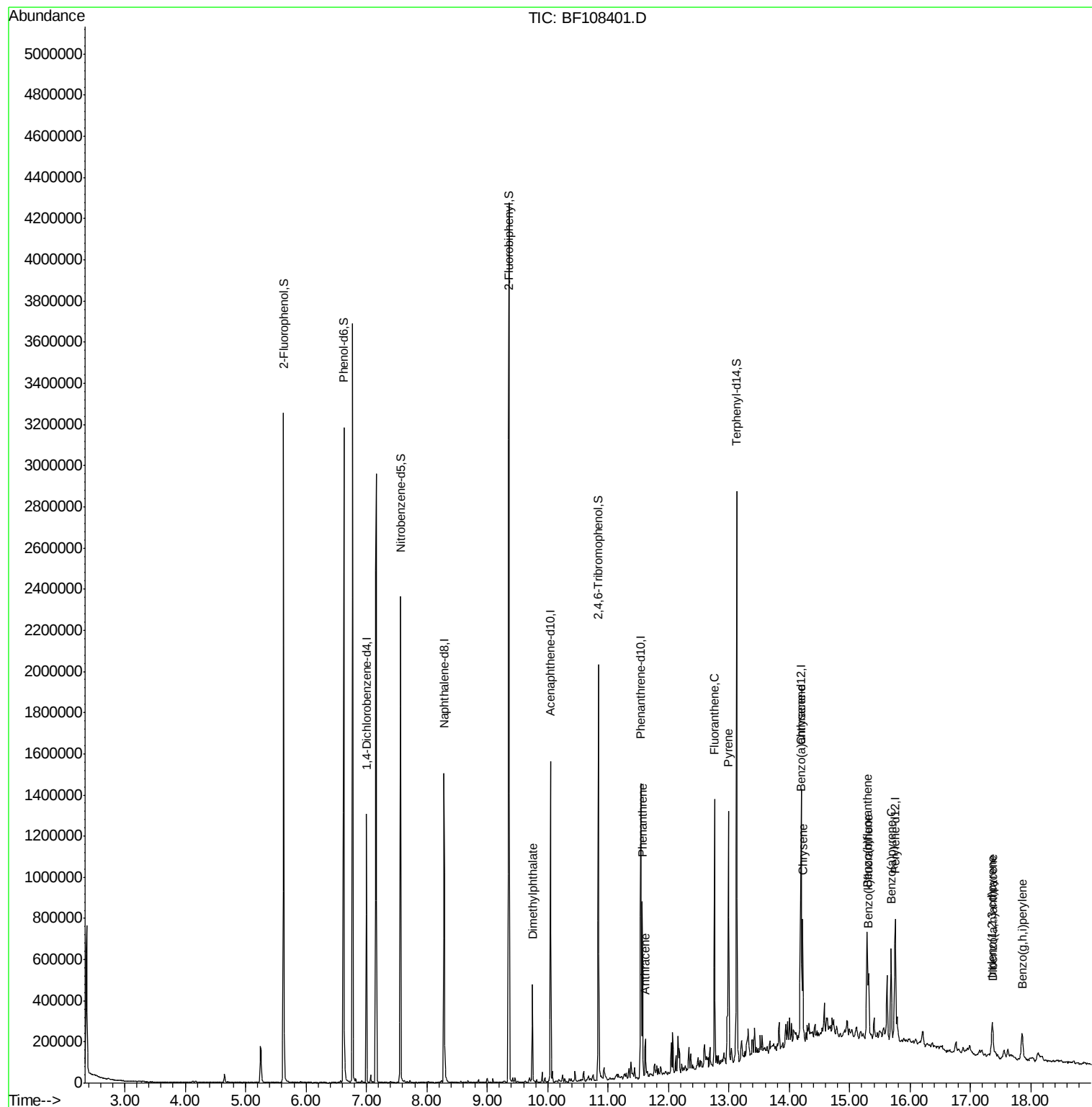
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
Data File : BF108401.D
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#1

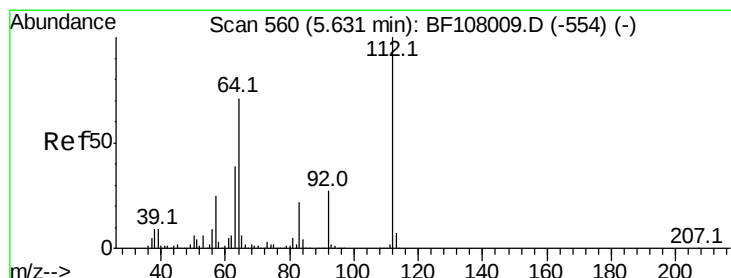
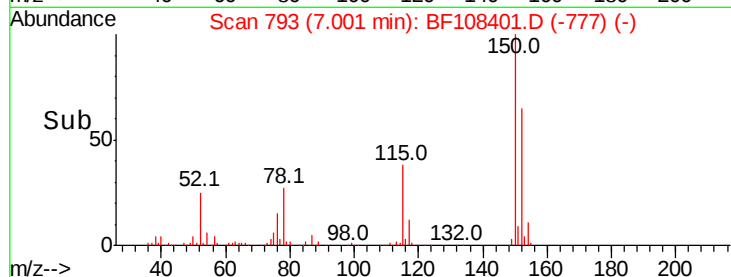
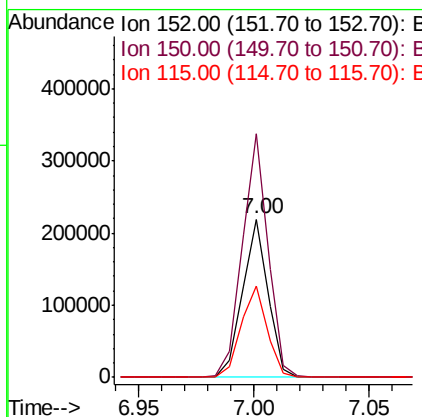
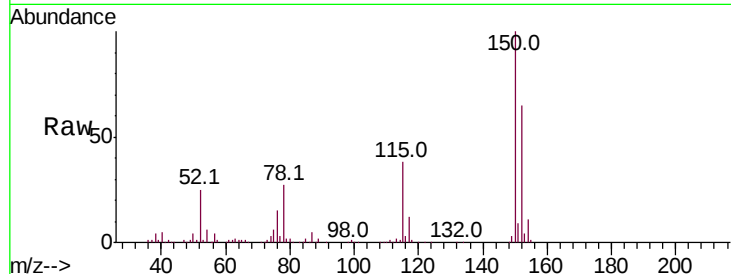
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampled :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.6	186.8
115	57.9	50.1	75.1

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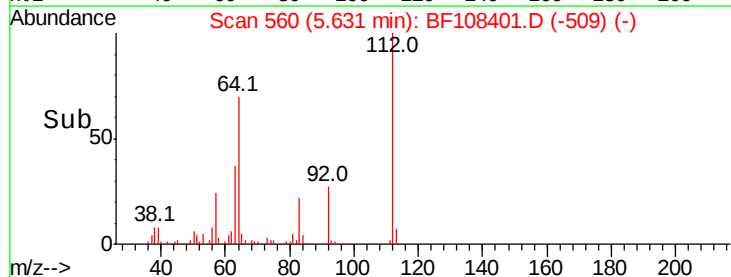
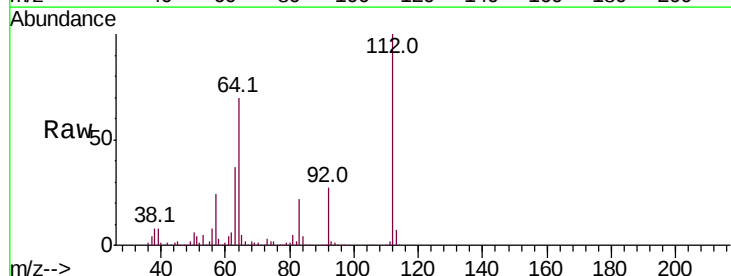
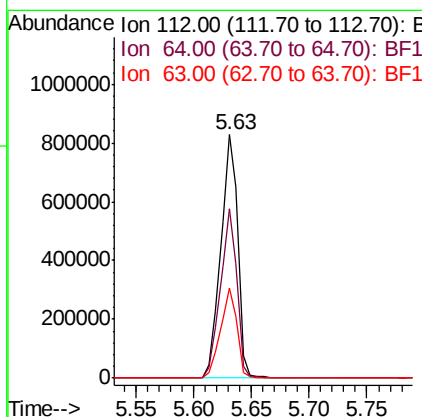
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#5

2-Fluorophenol
Concen: 90.212 ng
RT: 5.63 min Scan# 560
Delta R.T. -0.00 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.7	47.9	71.9
63	37.1	23.7	35.5#





#7

Phenol-d6

Concen: 91.251 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Instrument :

BNA_F

ClientSampled :

RN-SOIL

Tot Ion: 99 Resp: 1139130

Ion Ratio Lower Upper

99 100

42 22.5 14.5 21.7#

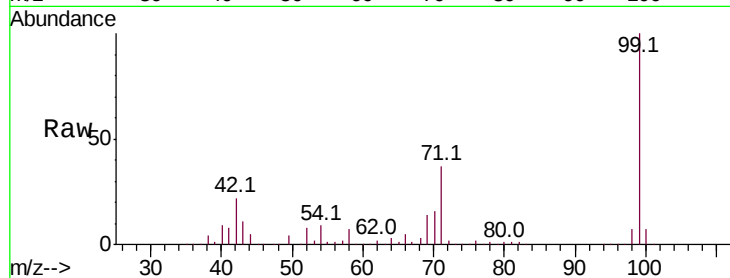
71 37.2 25.4 38.0

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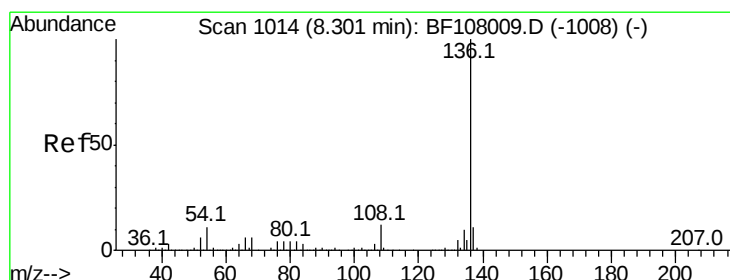
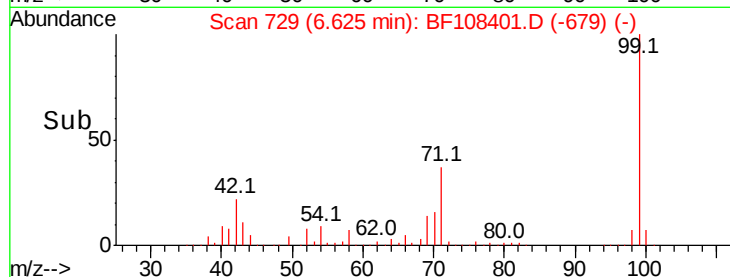
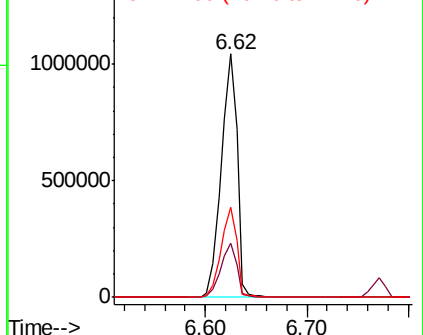
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Tgt Ion: 136 Resp: 621210

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 10.0 6.6 9.8#

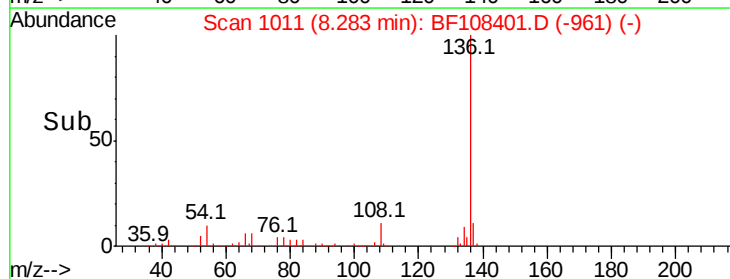
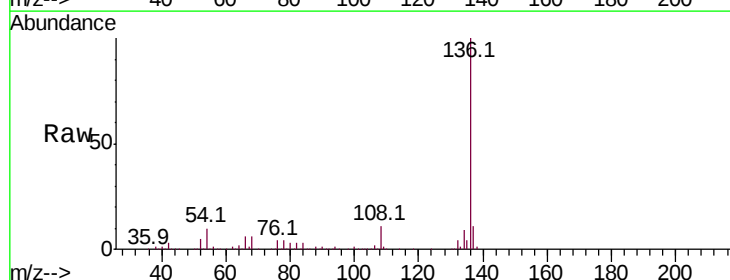
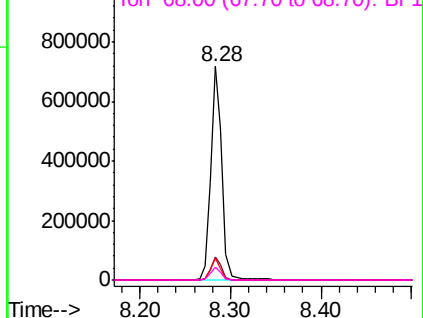
68 6.2 5.0 7.4

Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





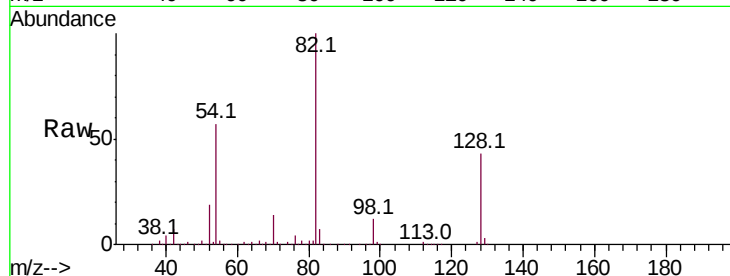
#23
Nitrobenzene-d5
Concen: 66.328 ng
RT: 7.57 min Scan# 889
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampled :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	36.1	54.1
54	57.2	41.4	62.2

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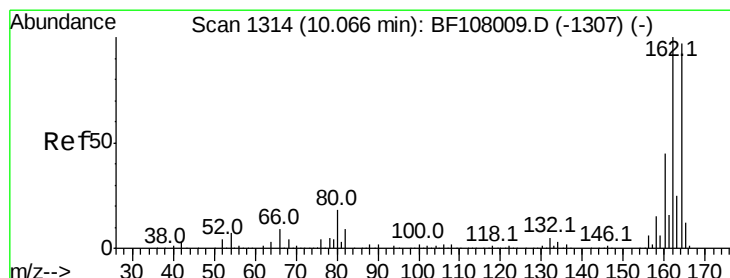
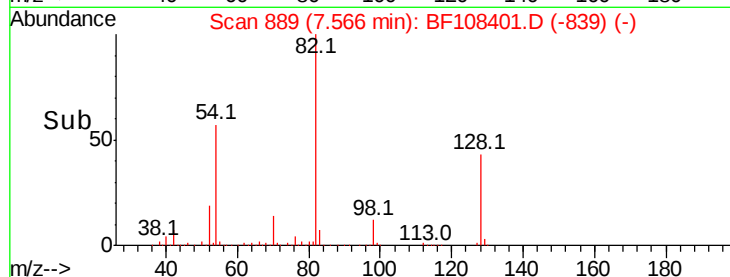
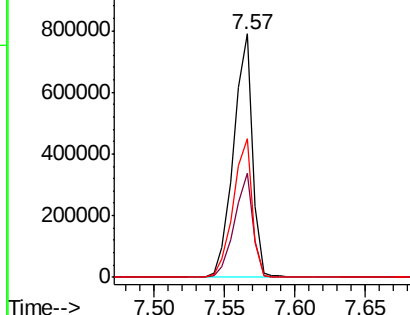


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

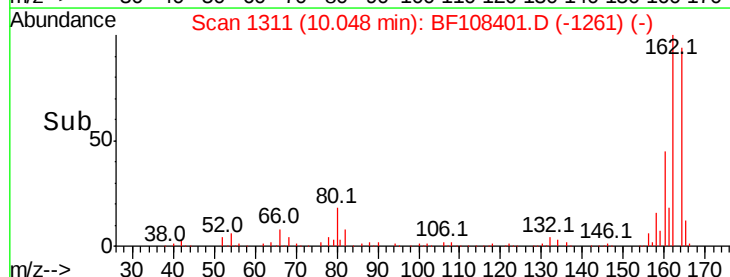
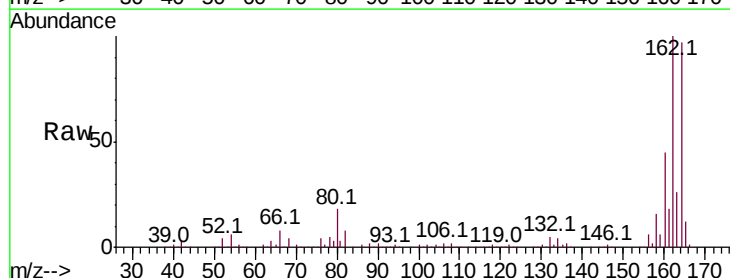
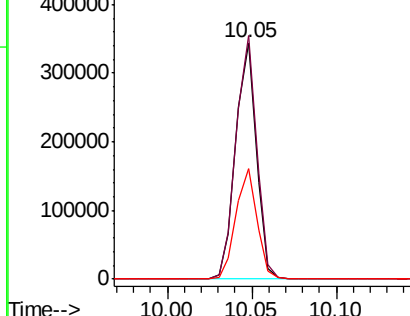
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	86.1	129.1
160	46.8	38.3	57.5

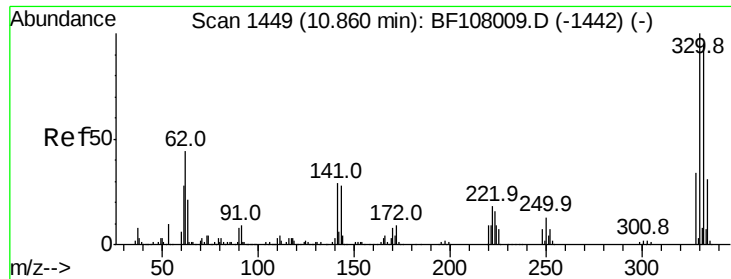
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





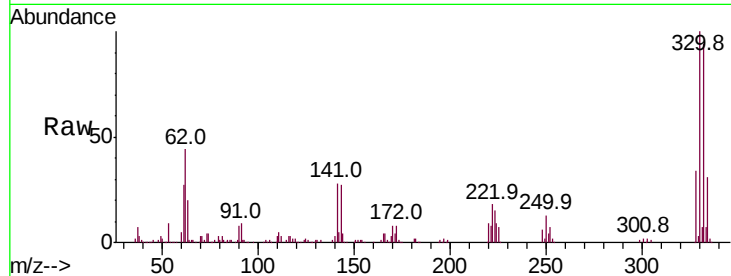
#41
 2,4,6-Tribromophenol
 Concen: 88.390 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.01 min
 Lab File: BF108401.D
 Acq: 22 Aug 2018 23:27

Instrument :
 BNA_F
 ClientSampled :
 RN-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	257182		
332	94.2	77.0	115.6	
141	32.7	29.9	44.9	

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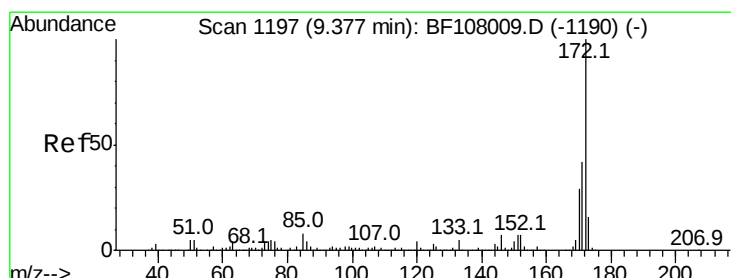
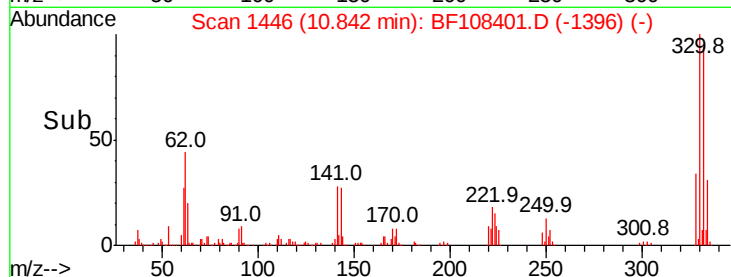
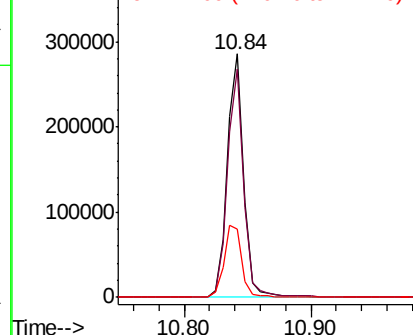


Abundance

Ion 329.80 (329.50 to 330.50): E

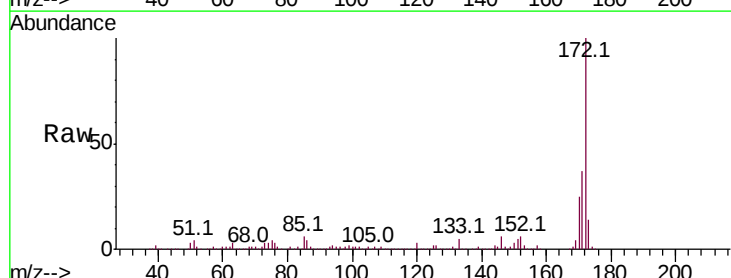
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 67.387 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BF108401.D
 Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1224362		
171	36.9	29.7	44.5	
170	24.8	19.6	29.4	

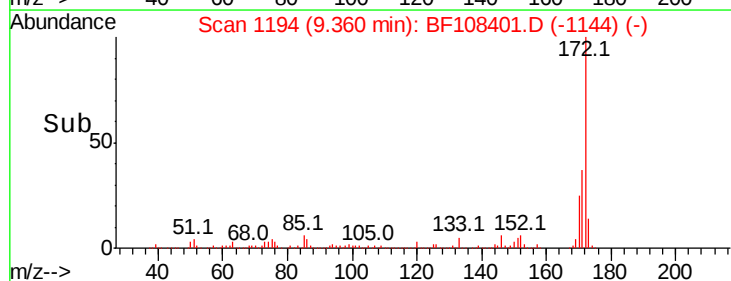
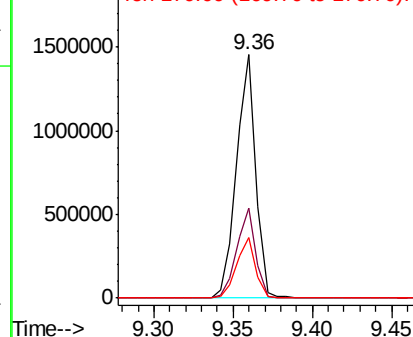


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





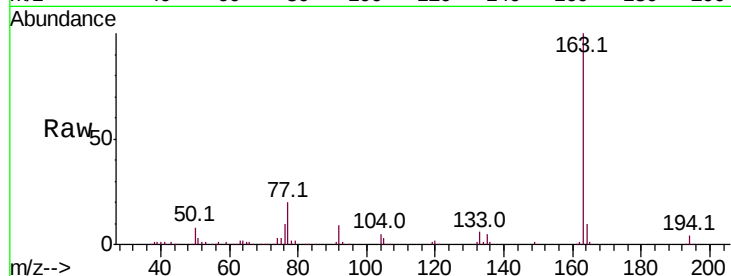
#49
Dimethylphthalate
Concen: 8.077 ng
RT: 9.75 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampled :
RN-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	164116		
194	4.1	2.7	4.1	
164	9.9	8.2	12.2	

Manual Integrations
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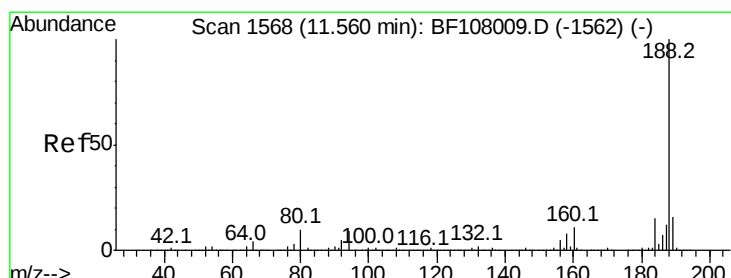
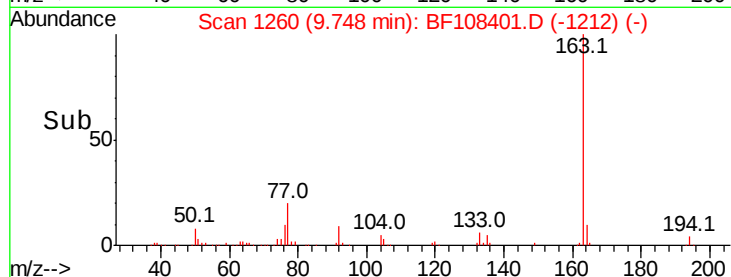
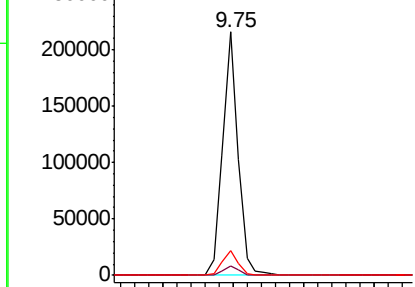


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.54 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

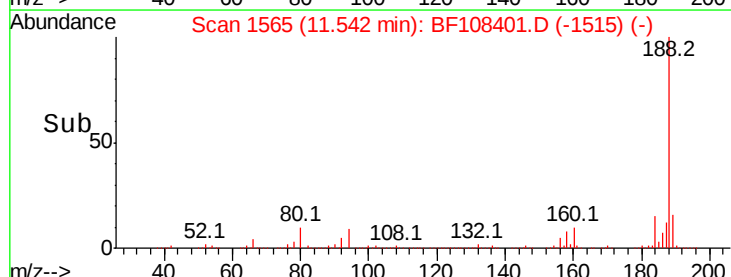
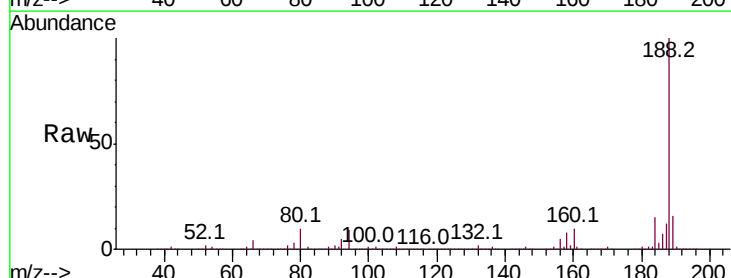
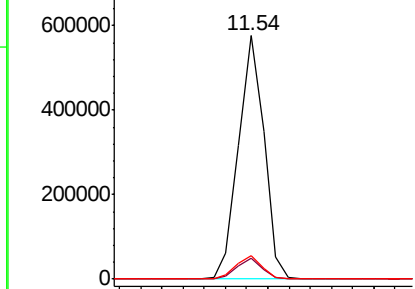
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	483805		
94	8.8	8.5	12.7	
80	9.8	9.2	13.8	

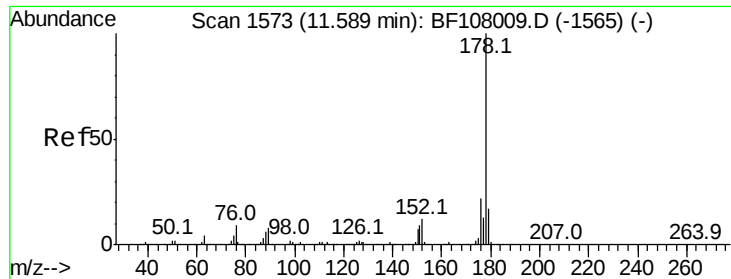
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





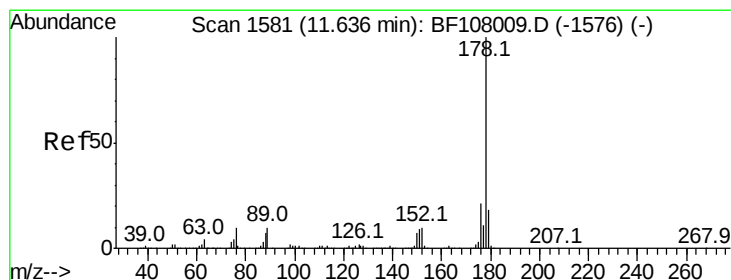
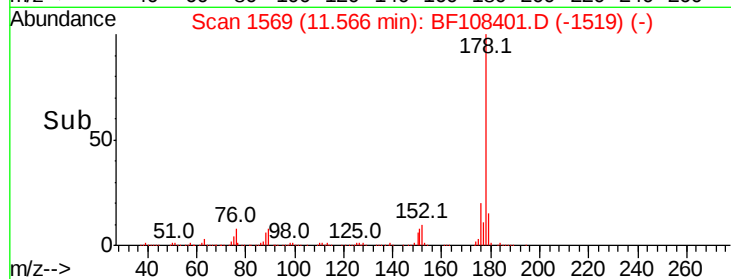
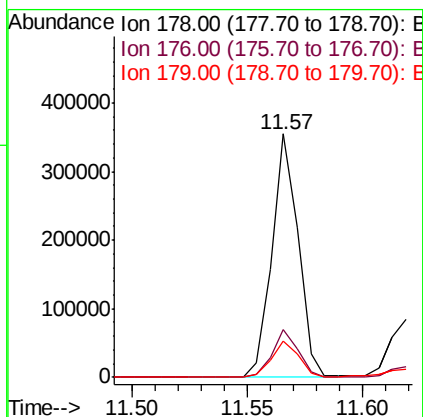
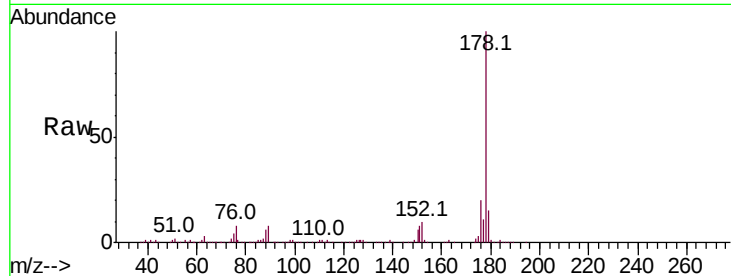
#70
Phenanthrene
Concen: 12.281 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampleId :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.1	13.0	19.6

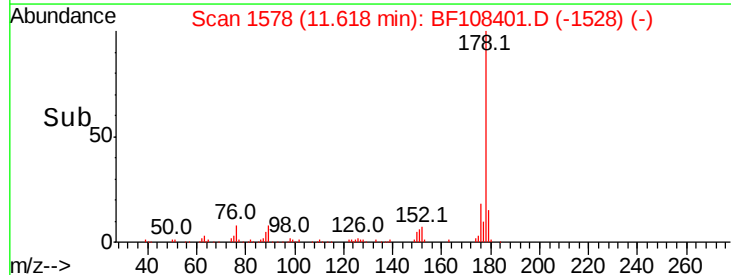
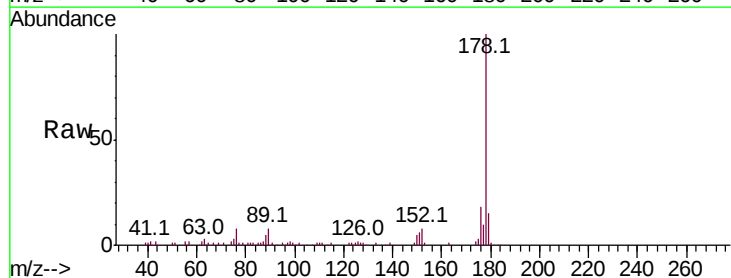
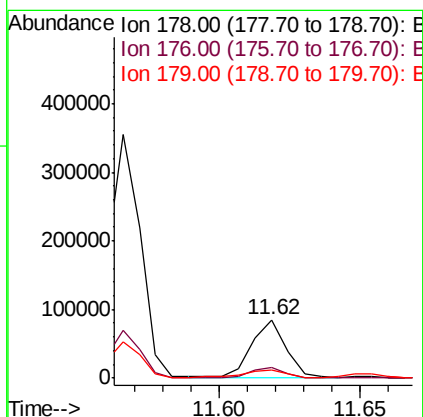
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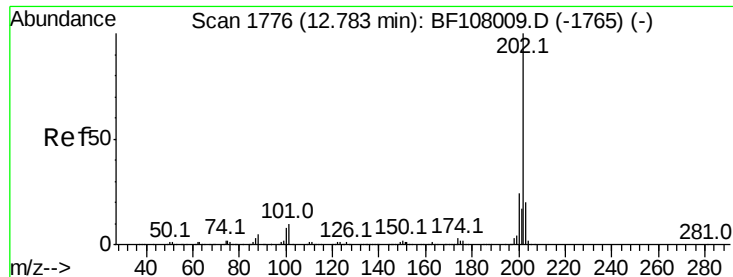
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#71
Anthracene
Concen: 2.987 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.4	23.2
179	14.7	12.6	19.0





#74

Fluoranthene

Concen: 21.286 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Instrument :

BNA_F

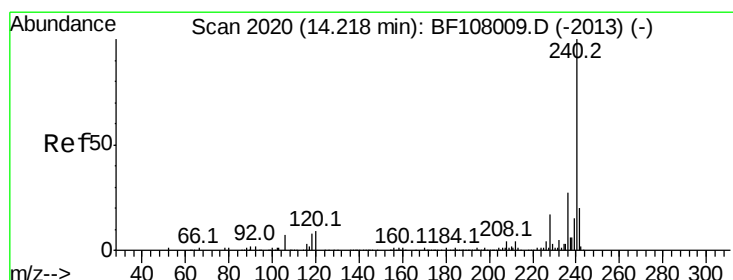
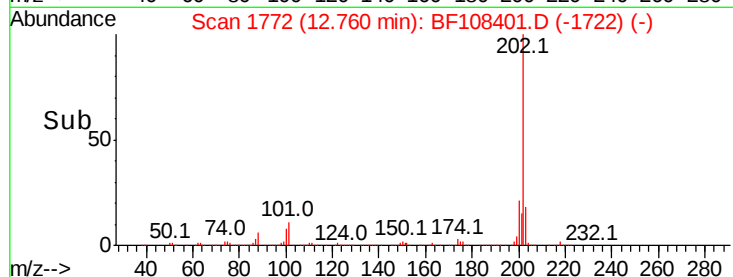
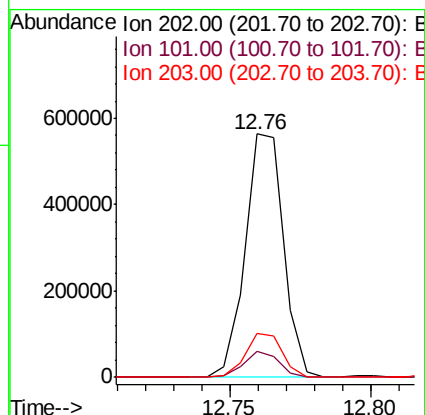
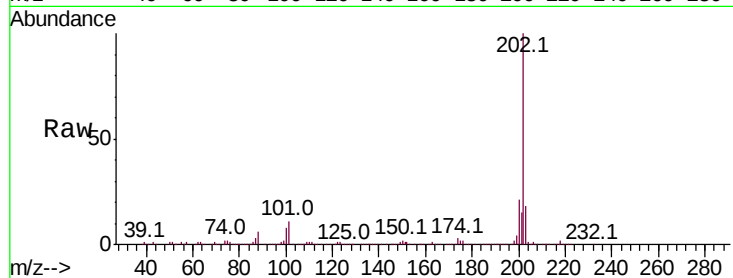
ClientSampleId :

RN-SOIL

Tot Ion:	202	Resp:	530123
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	34.1
203	17.9	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

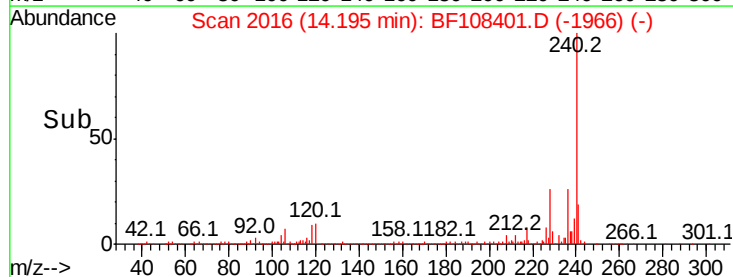
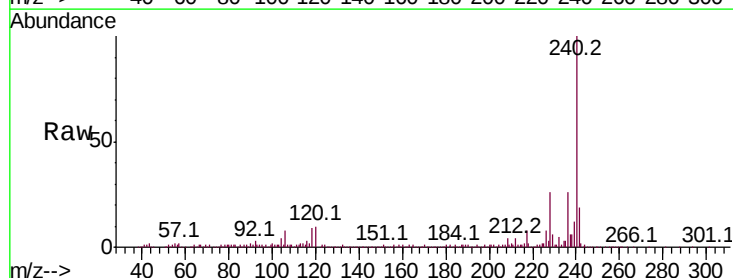
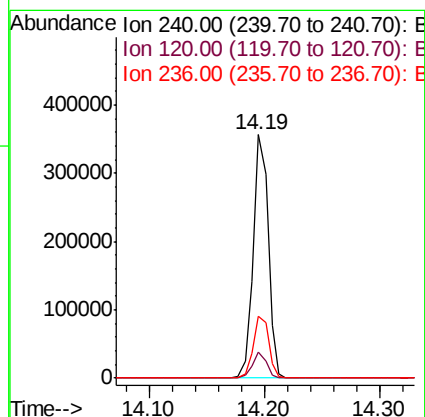
RT: 14.19 min Scan# 2016

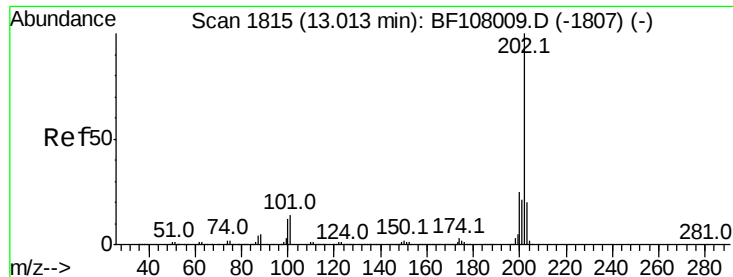
Delta R.T. -0.01 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Tgt Ion:	240	Resp:	321837
Ion Ratio	Lower	Upper	
240	100		
120	10.5	9.5	14.3
236	25.7	20.7	31.1





#77

Pvrene

Concen: 23.350 ng

RT: 12.99 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Instrument :

BNA_F

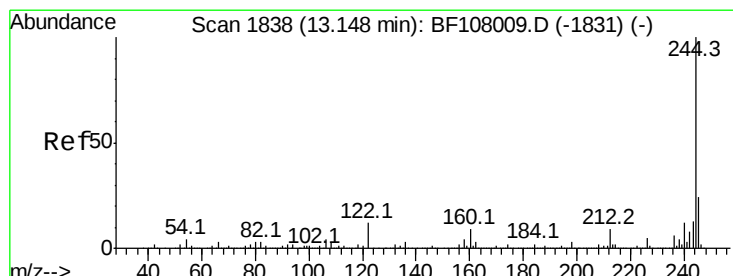
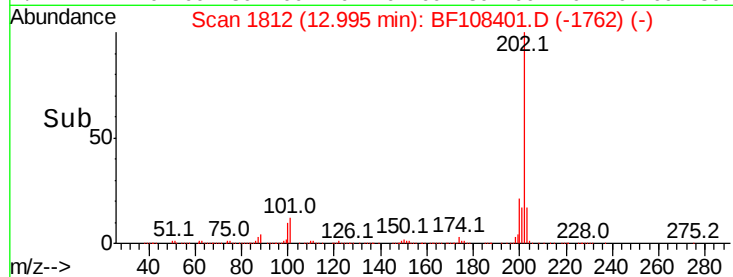
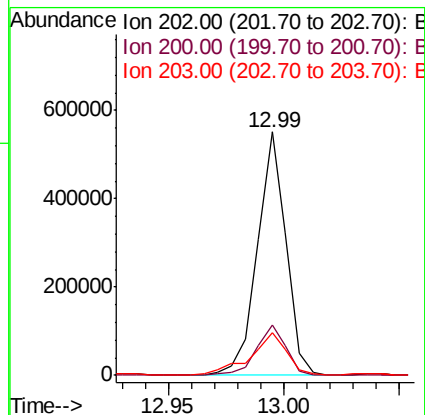
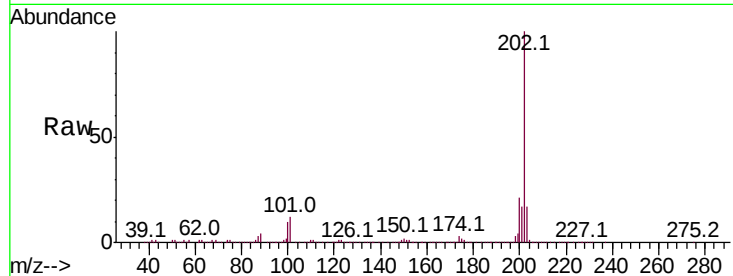
ClientSampled :

RN-SOIL

Tot Ion:	202	Resp:	475777
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.4	26.2
203	17.4	14.3	21.5

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#78

Terphenyl-d14

Concen: 74.679 ng

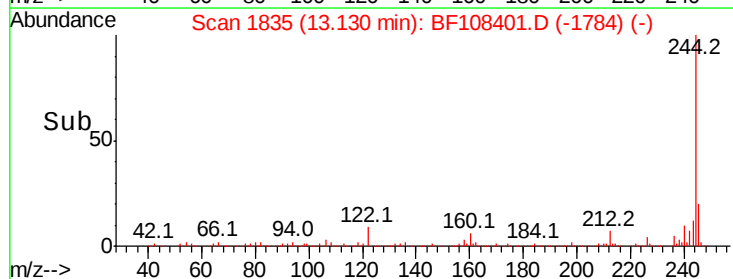
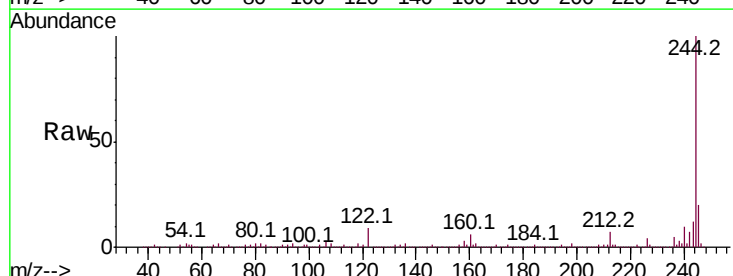
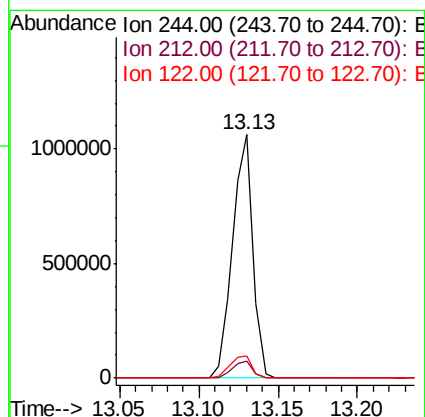
RT: 13.13 min Scan# 1835

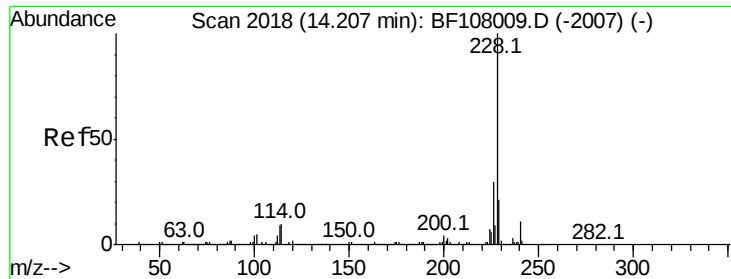
Delta R.T. -0.00 min

Lab File: BF108401.D

Acq: 22 Aug 2018 23:27

Tgt Ion:	244	Resp:	945282
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.0
122	8.9	11.0	16.4#





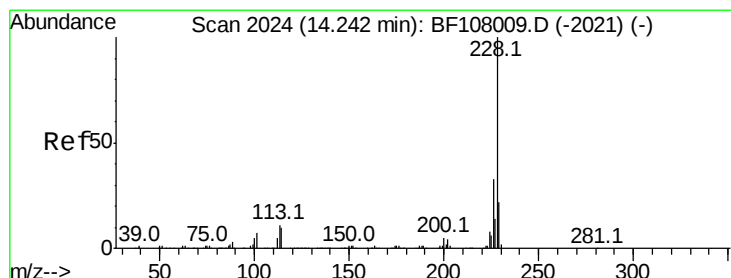
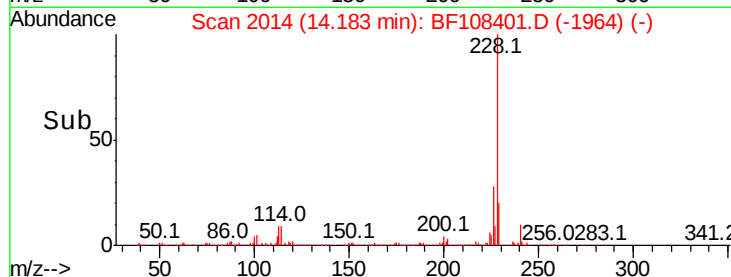
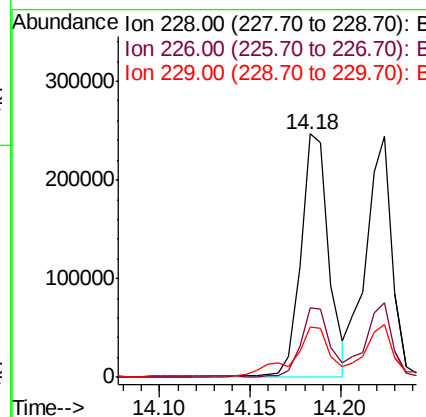
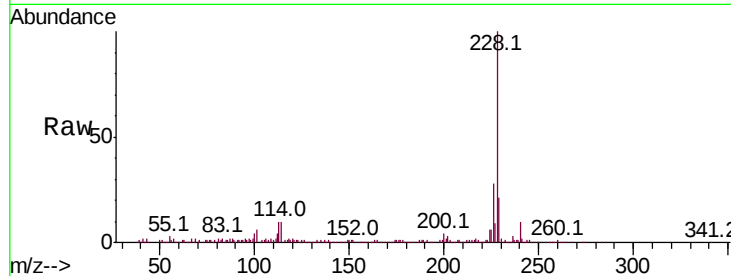
#80
Benzo(a)anthracene
Concen: 14.377 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampleId :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.9	15.8	23.6

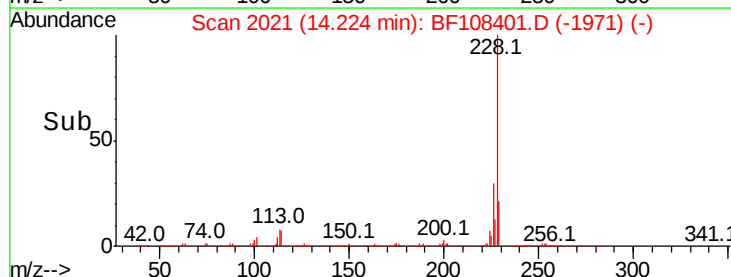
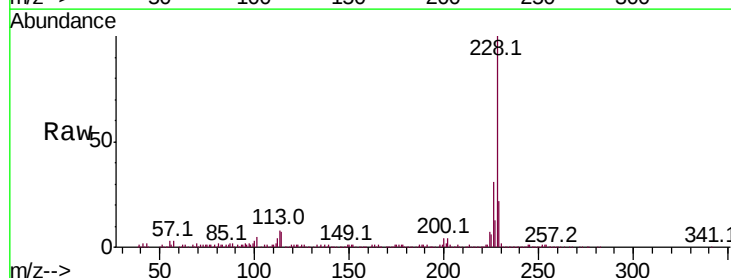
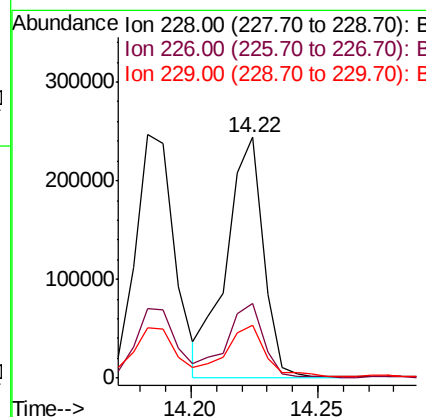
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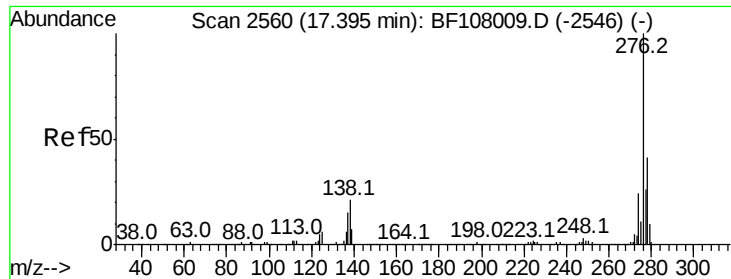
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#82
Chrysene
Concen: 14.495 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	22.2	16.2	24.4





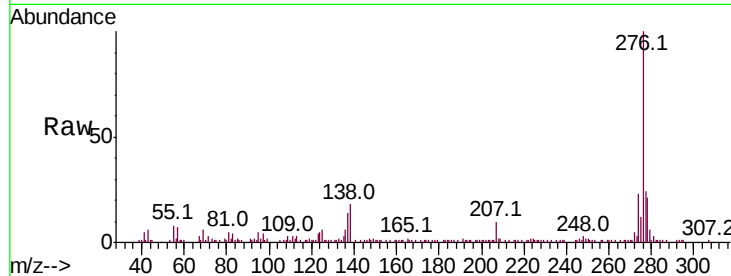
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.953 ng
RT: 17.36 min Scan# 2554
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampleId :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.2	25.0	37.6#
277	24.2	20.1	30.1

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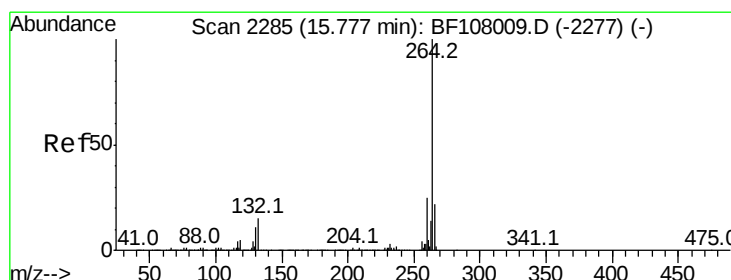
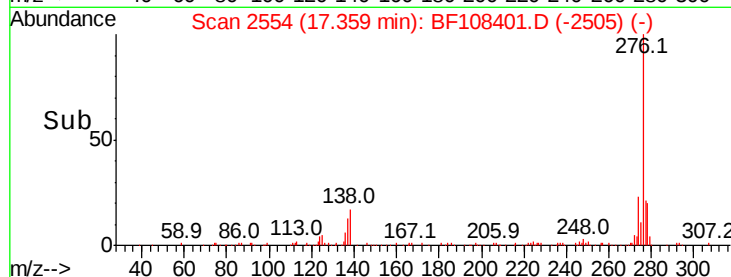
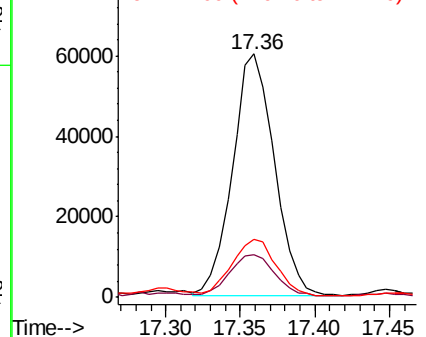


Abundance

Ion 276.00 (275.70 to 276.70): E

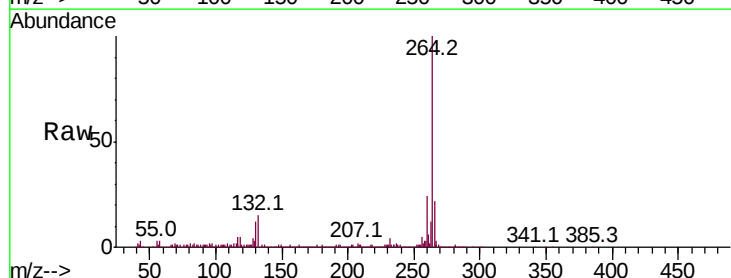
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.75 min Scan# 2281
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.3	17.5	26.3

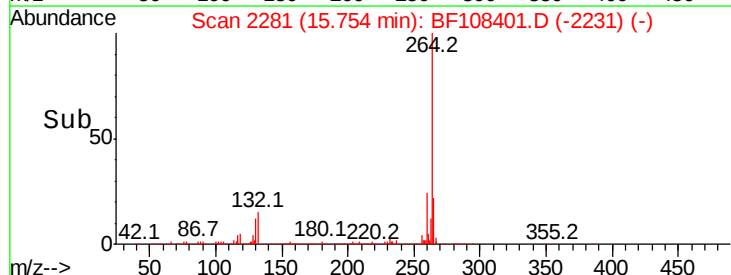
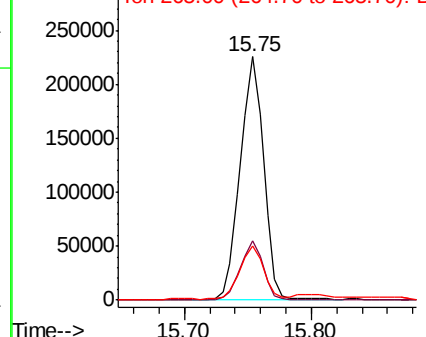


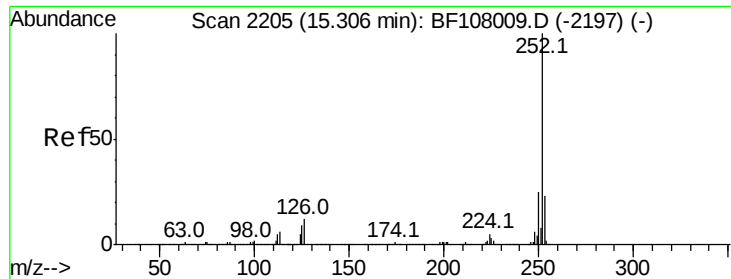
Abundance

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





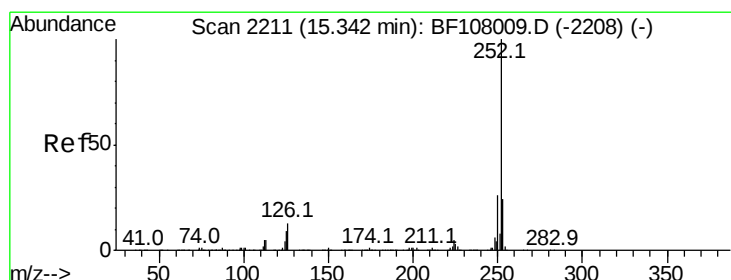
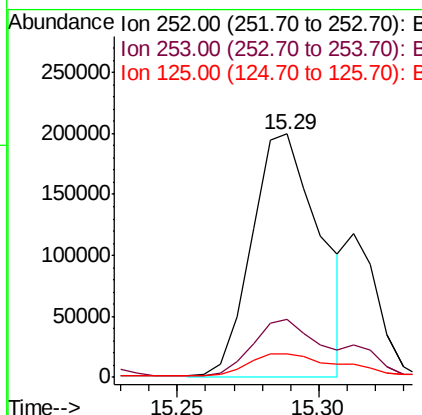
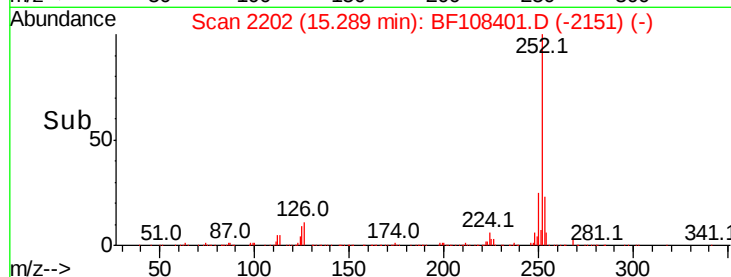
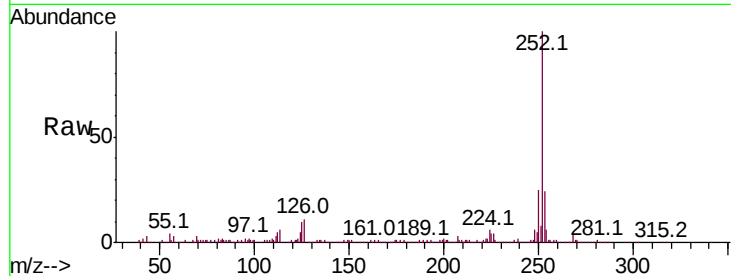
#87
Benzo(b)fluoranthene
Concen: 19.547 ng m
RT: 15.29 min Scan# 2202
Delta R.T. -0.00 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampled :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	9.6	9.0	13.6

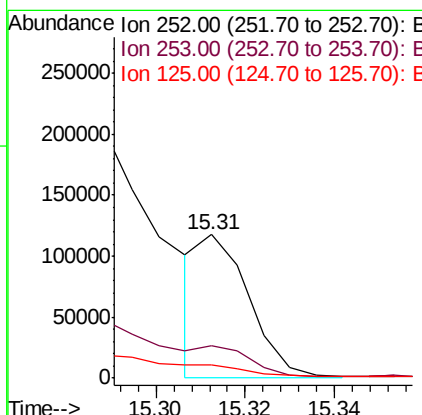
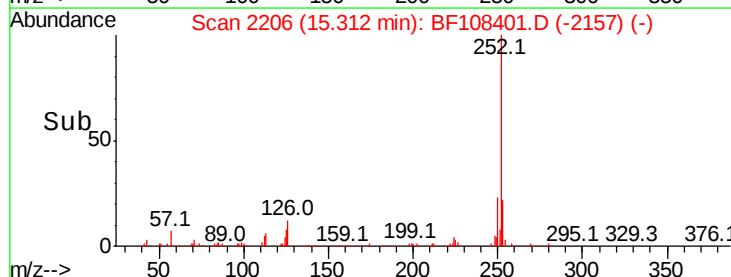
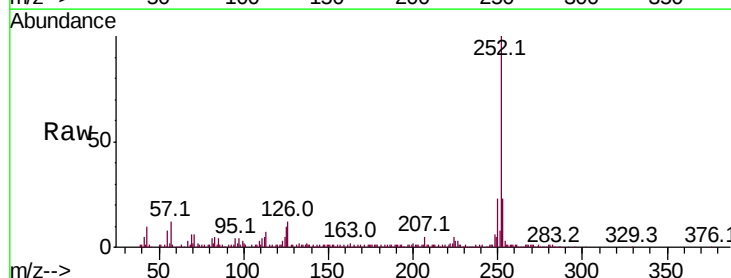
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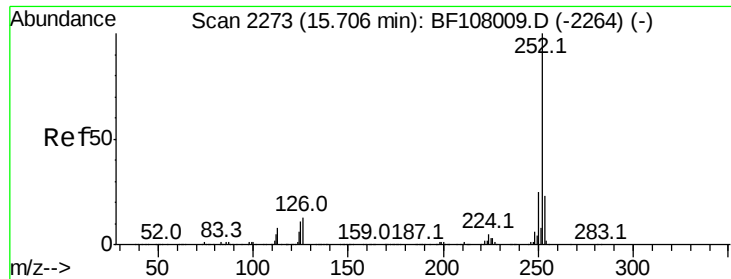
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#88
Benzo(k)fluoranthene
Concen: 5.741 ng m
RT: 15.31 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	9.6	10.2	15.2#





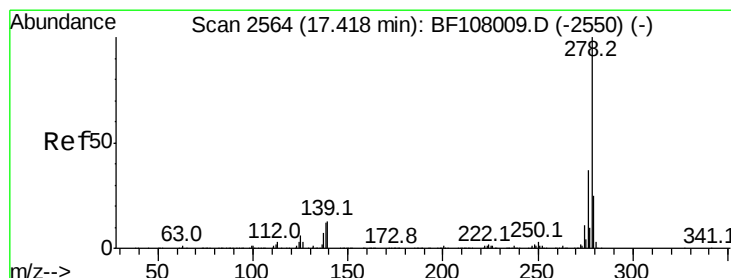
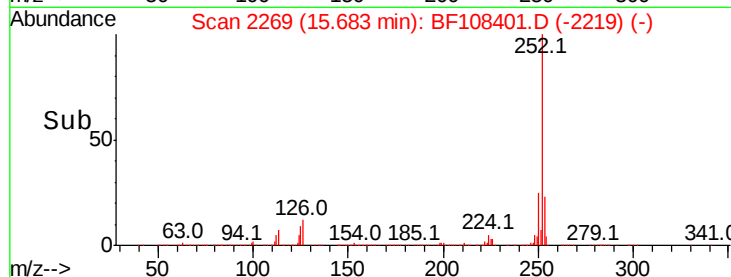
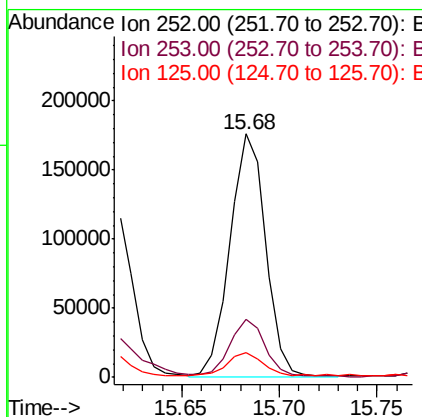
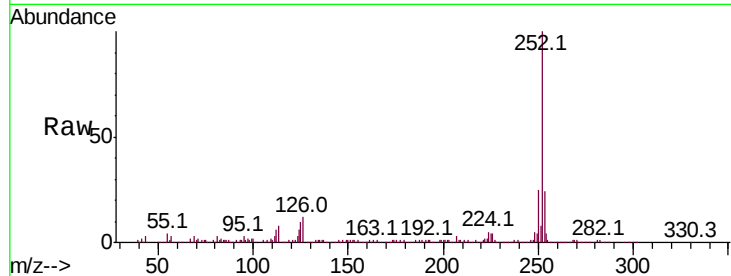
#89
Benzo(a)pyrene
Concen: 14.416 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Instrument :
BNA_F
ClientSampleId :
RN-SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	10.2	9.8	14.6

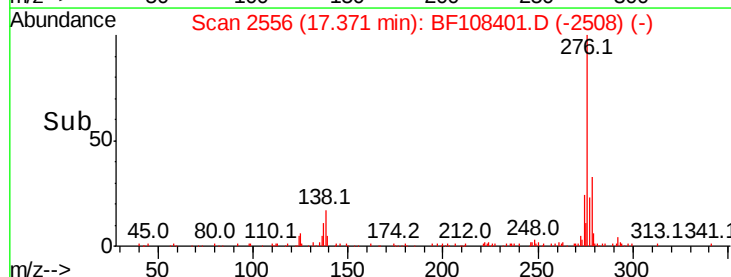
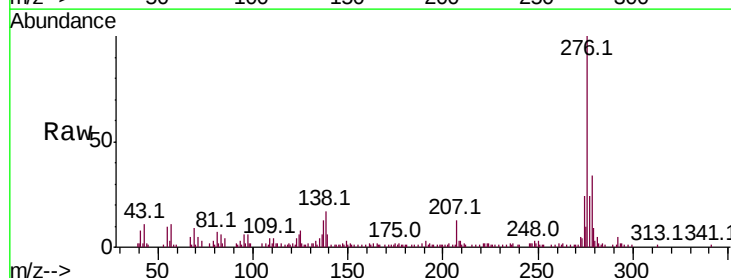
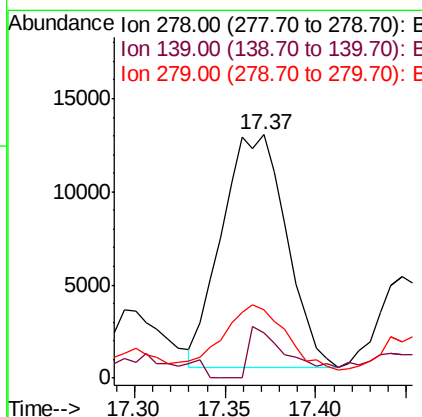
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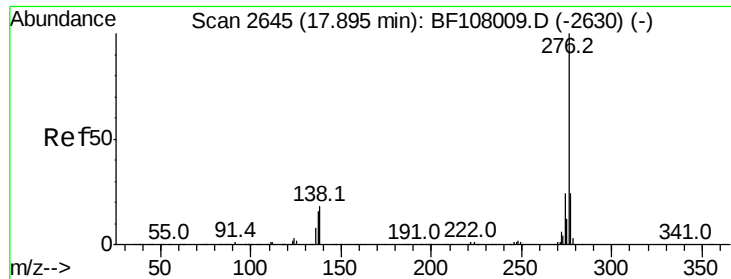
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#90
Dibenzo(a,h)anthracene
Concen: 2.420 ng
RT: 17.37 min Scan# 2556
Delta R.T. -0.02 min
Lab File: BF108401.D
Acq: 22 Aug 2018 23:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.6	15.9	23.9
279	28.0	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 8.611 ng
 RT: 17.85 min Scan# 2638
 Delta R.T. -0.01 min
 Lab File: BF108401.D
 Acq: 22 Aug 2018 23:27

Instrument :
 BNA_F
 ClientSampleId :
 RN-SOIL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	17.9	26.9
138	19.2	21.8	32.8#

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