

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
 Data File : BF116418.D
 Acq On : 20 Aug 2019 6:05
 Operator : HP/JU
 Sample : K4384-04 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-4(3-4)

Manual Integrations
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mohammad
 8/22/2019 12:46:04 PM

Quant Time: Aug 20 08:29:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 06:03:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105267	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	446707	20.00	ng	-0.02
39) Acenaphthene-d10	9.83	164	246562	20.00	ng	-0.02
64) Phenanthrene-d10	11.32	188	438011	20.00	ng	-0.02
76) Chrysene-d12	13.96	240	286823	20.00	ng	-0.02
87) Perylene-d12	15.42	264	320810	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	57549	9.15	ng	0.02
7) Phenol-d6	6.47	99	92572	11.67	ng	0.00
23) Nitrobenzene-d5	7.38	82	57123	7.38	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	24295	10.16	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	123881	9.41	ng	-0.01
79) Terphenyl-d14	12.90	244	128224	9.42	ng	-0.02
Target Compounds						
71) Phenanthrene	11.34	178	251096	11.214	ng	98
72) Anthracene	11.40	178	53910	2.379	ng	98
75) Fluoranthene	12.54	202	320743	13.682	ng	99
78) Pyrene	12.76	202	294197	13.607	ng	99
81) Benzo(a)anthracene	13.95	228	130112	7.097	ng	99
83) Chrysene	13.99	228	119225	6.699	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	63135	4.223	ng	95
88) Benzo(b)fluoranthene	15.00	252	160951m	8.677	ng	
89) Benzo(k)fluoranthene	15.03	252	44994m	2.490	ng	
90) Benzo(a)pyrene	15.36	252	117775	7.103	ng	99
92) Benzo(g,h,i)perylene	17.33	276	61457	4.360	ng	98

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

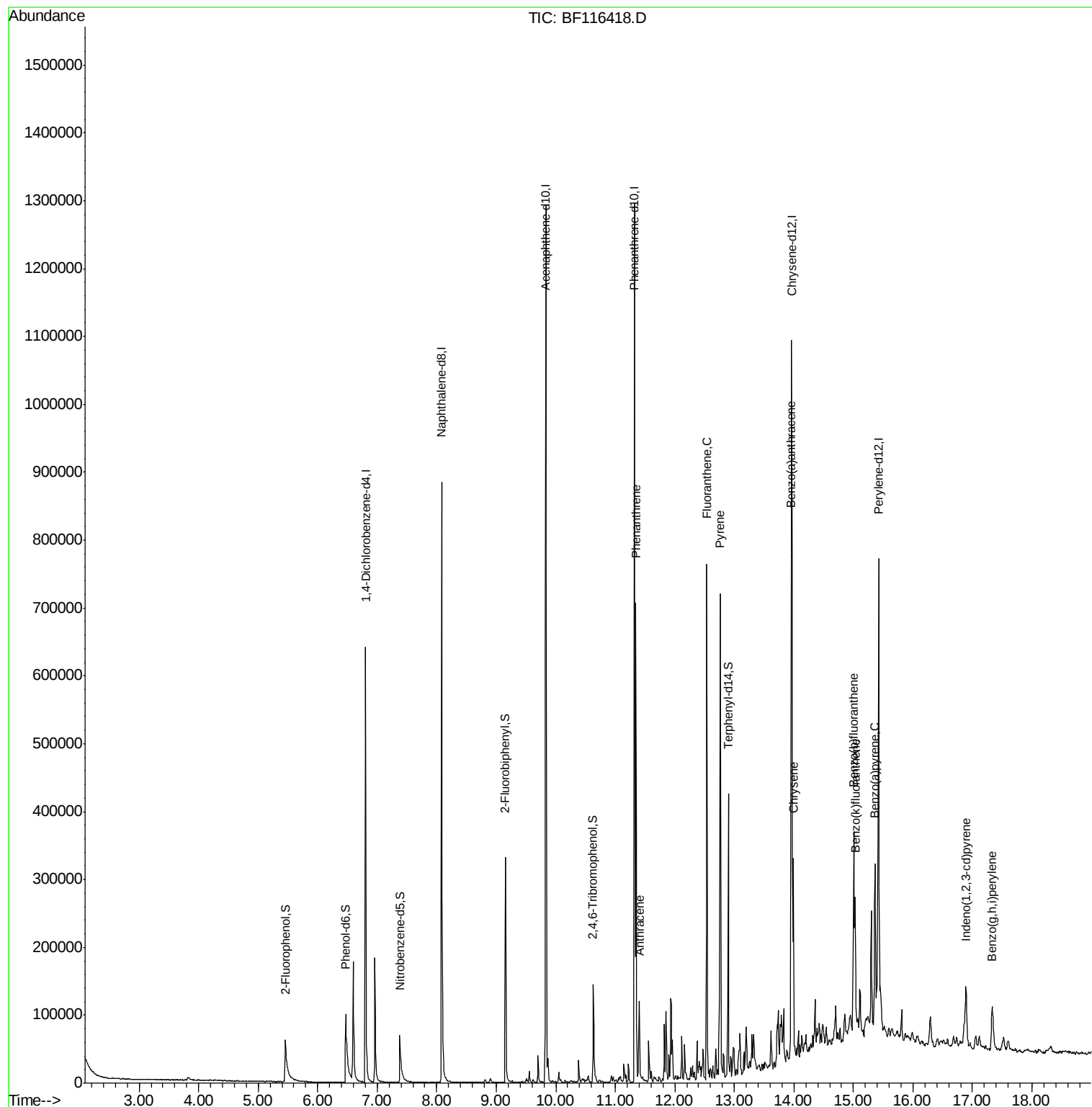
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
Data File : BF116418.D
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ALS Vial : 26 Sample Multiplier: 1

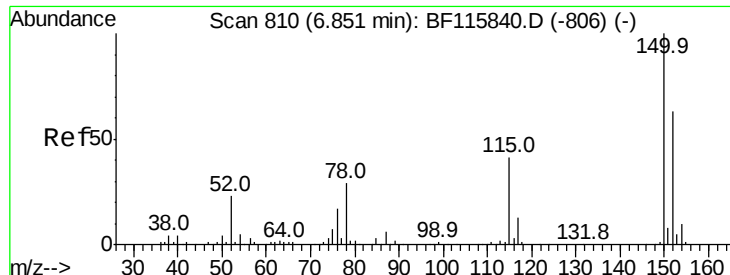
Instrument :
BNA_F
ClientSampled :
B-4(3-4)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
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#1

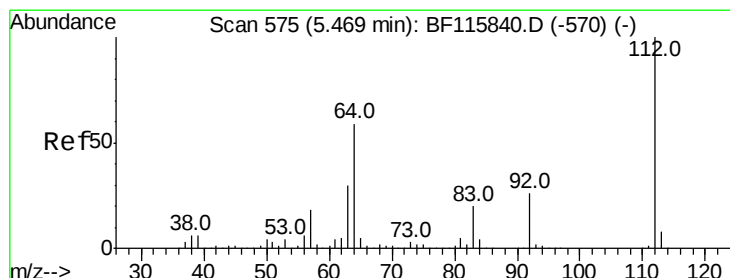
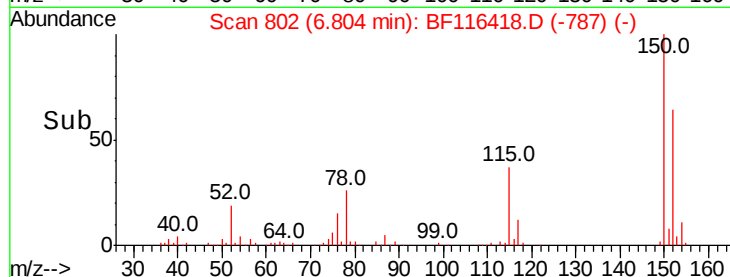
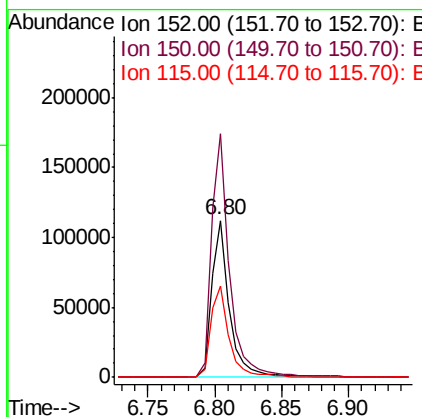
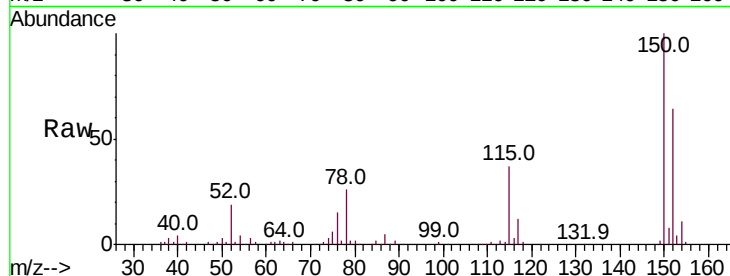
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :
B-4(3-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	126.2	189.2
115	57.9	49.9	74.9

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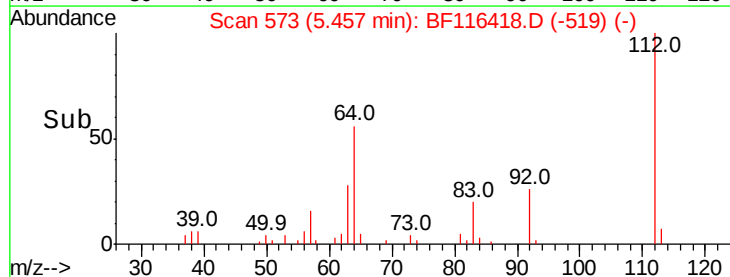
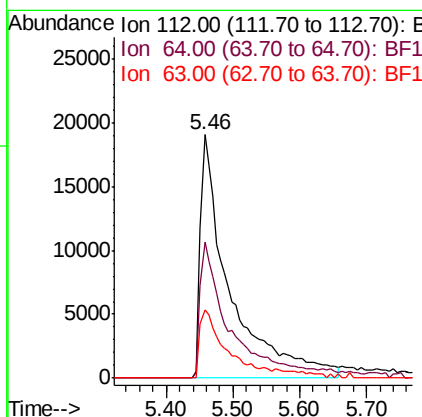
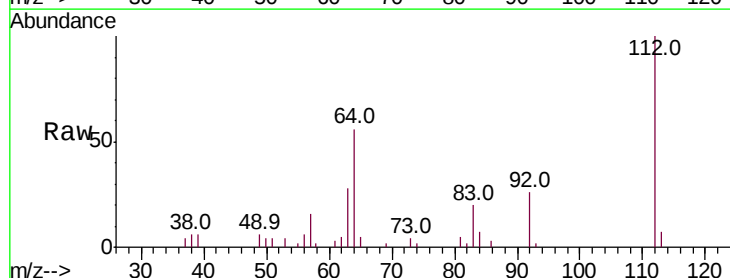
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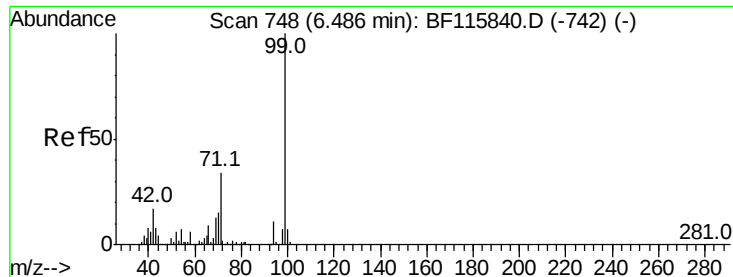


#5

2-Fluorophenol
Concen: 9.152 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	45.4	68.2
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 11.668 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

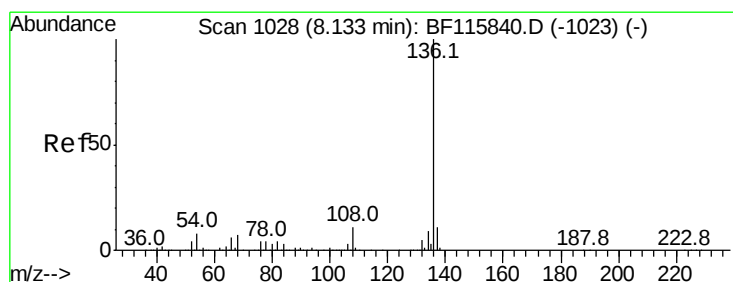
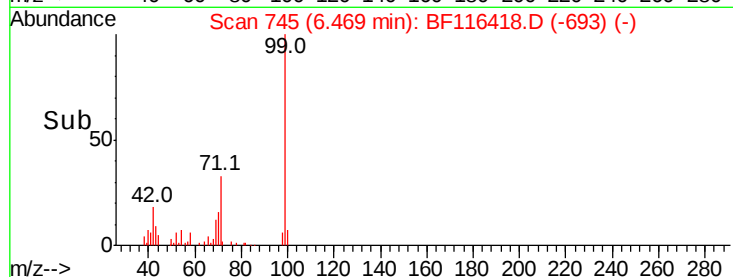
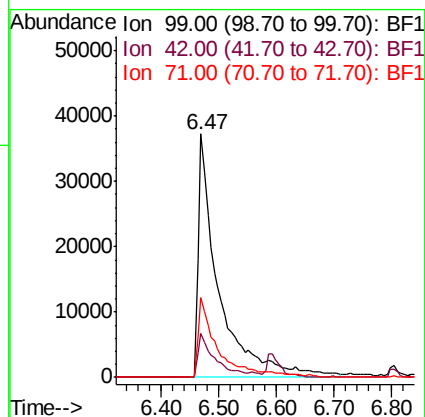
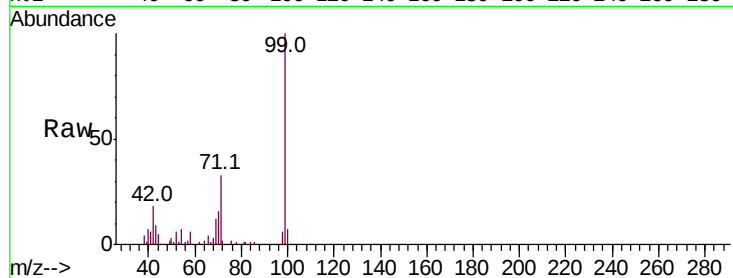
ClientSampled :

B-4(3-4)

Tot Ion:	99	Resp:	92572
Ion Ratio	Lower	Upper	
99	100		
42	18.2	13.8	20.8
71	32.7	27.3	40.9

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#21

Naphthalene-d8

Concen: 20.000 ng

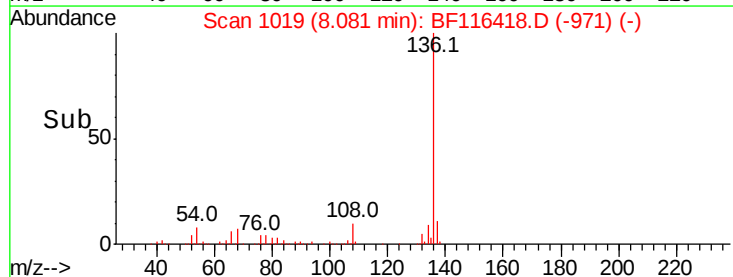
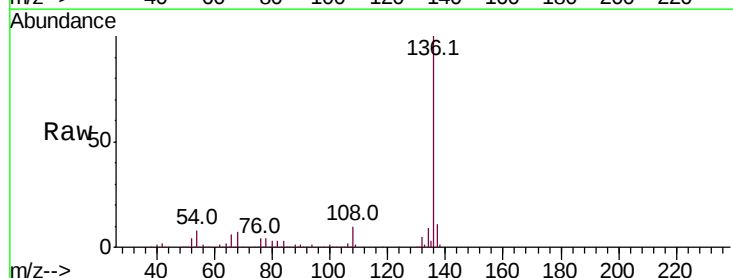
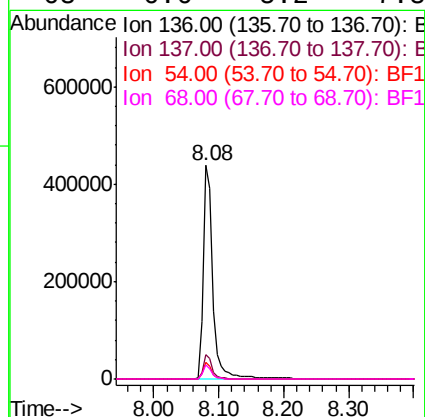
RT: 8.08 min Scan# 1019

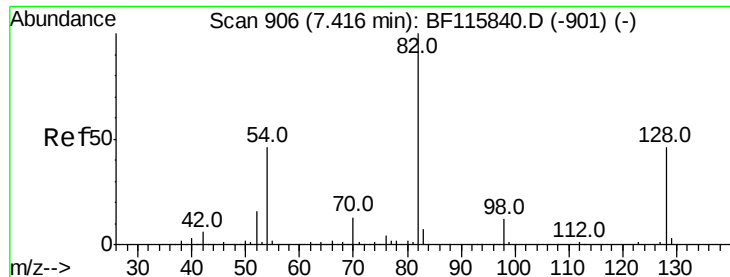
Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion:	136	Resp:	446707
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.0	13.4
54	7.6	5.8	8.6
68	6.6	5.2	7.8





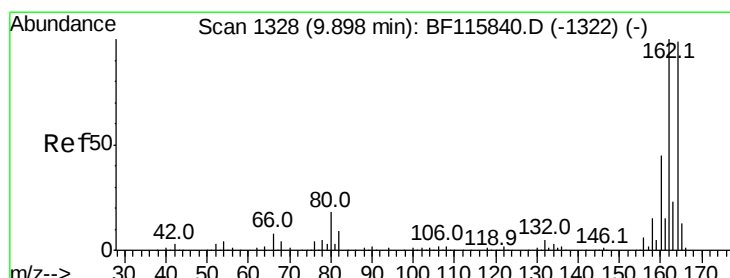
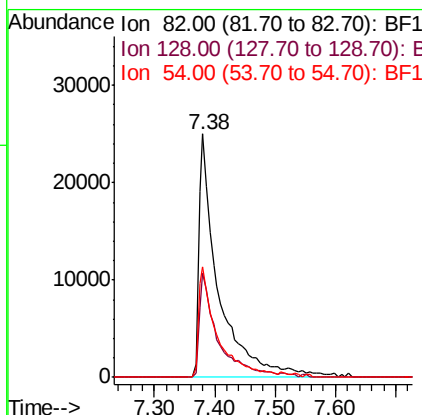
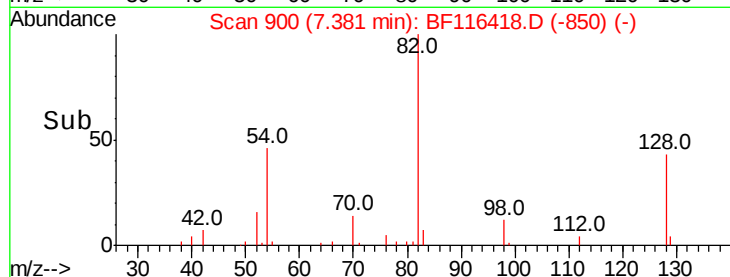
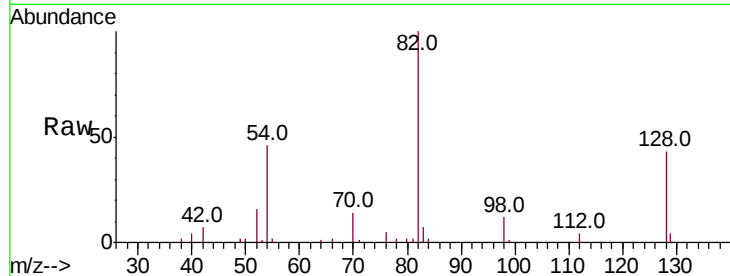
#23
Nitrobenzene-d5
Concen: 7.381 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :
B-4(3-4)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	57123		
128	42.5	36.5	54.7	
54	45.5	36.0	54.0	

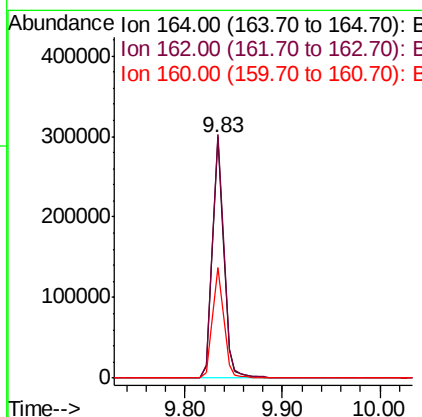
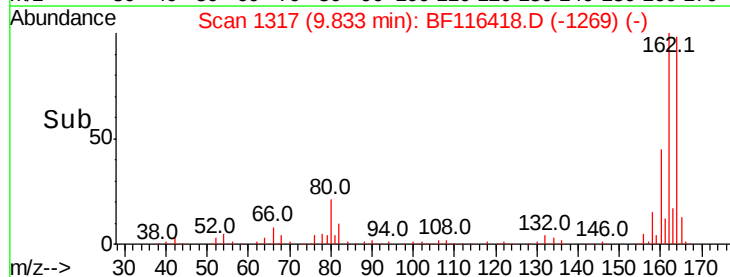
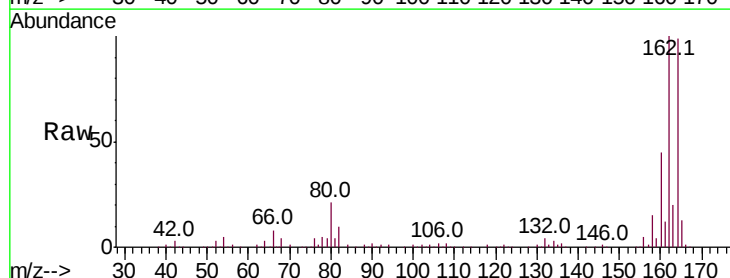
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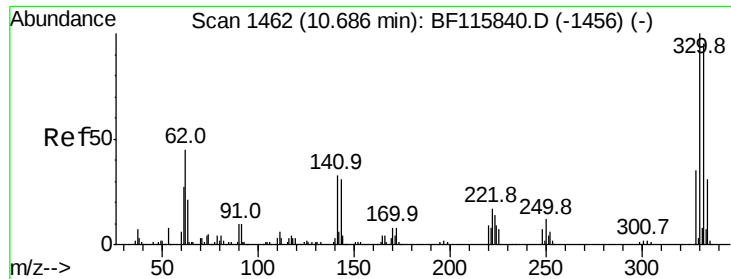
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	246562		
162	101.2	82.6	124.0	
160	46.0	37.6	56.4	





#42

2,4,6-Tribromophenol

Concen: 10.163 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

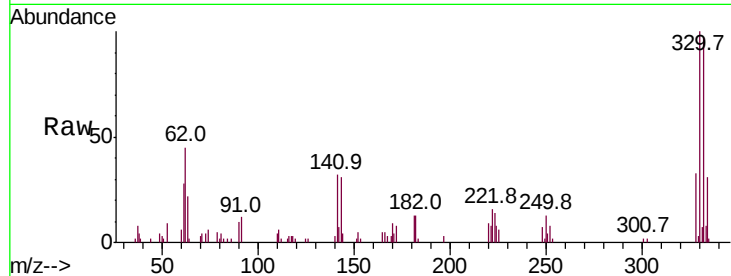
ClientSampled :

B-4(3-4)

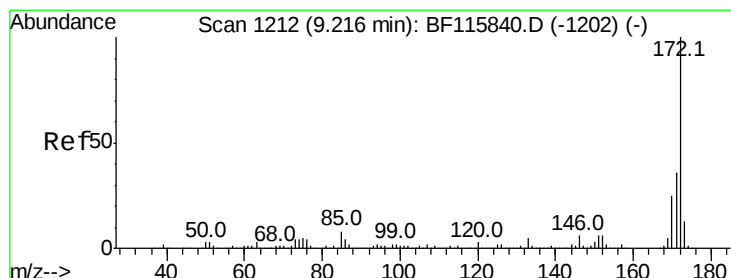
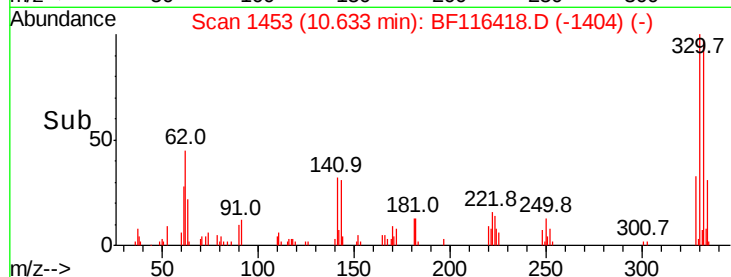
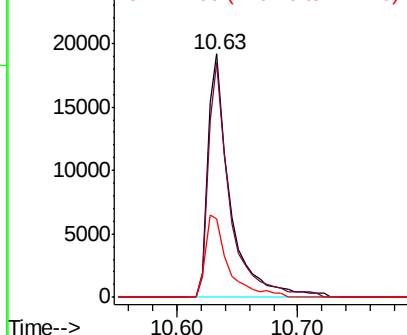
Tot Ion:	330	Resp:	24295
Ion Ratio	Lower	Upper	
330	100		
332	94.0	76.8	115.2
141	34.5	26.3	39.5

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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



#45

2-Fluorobiphenyl

Concen: 9.411 ng

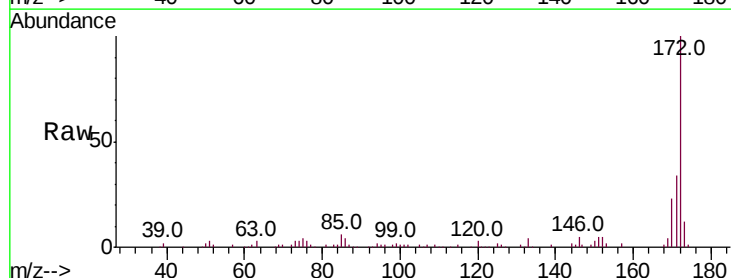
RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

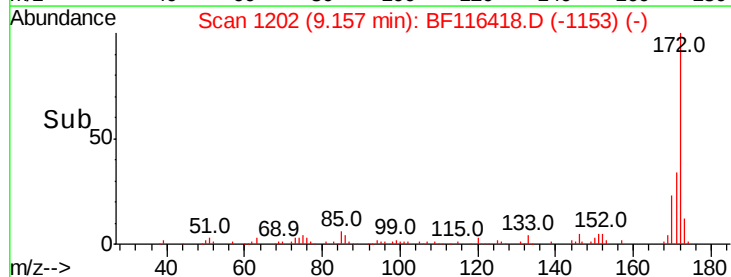
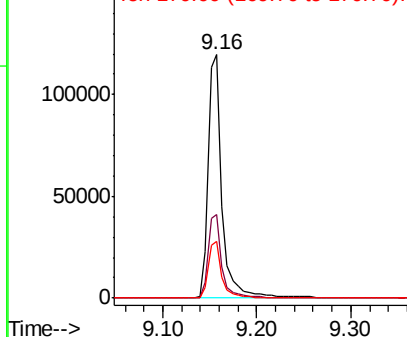
Lab File: BF116418.D

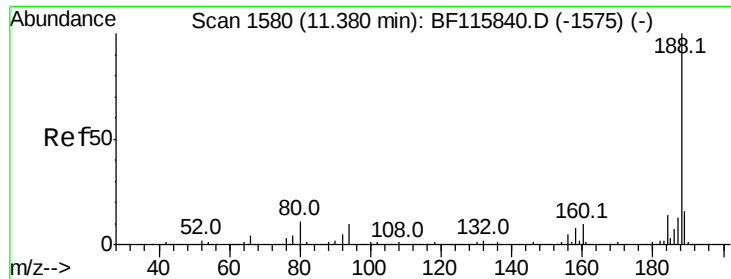
Acq: 20 Aug 2019 6:05

Tgt Ion:	172	Resp:	123881
Ion Ratio	Lower	Upper	
172	100		
171	34.2	29.6	44.4
170	23.1	20.1	30.1



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





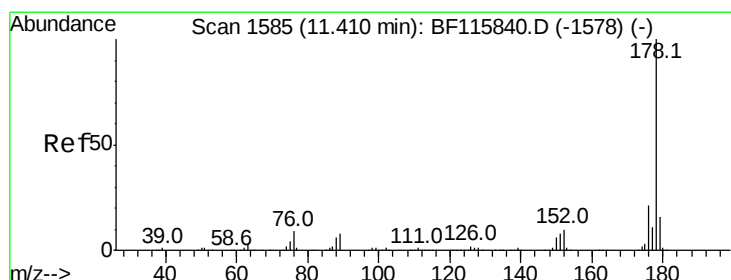
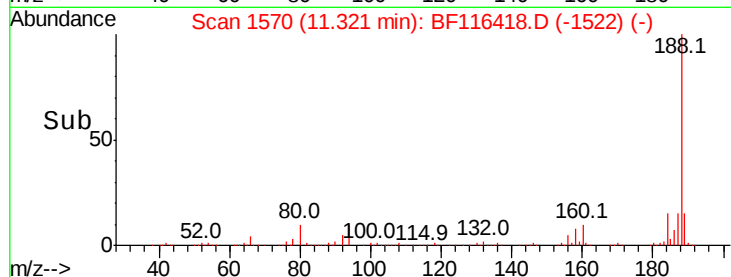
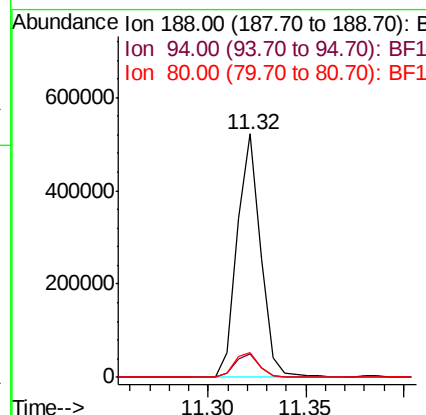
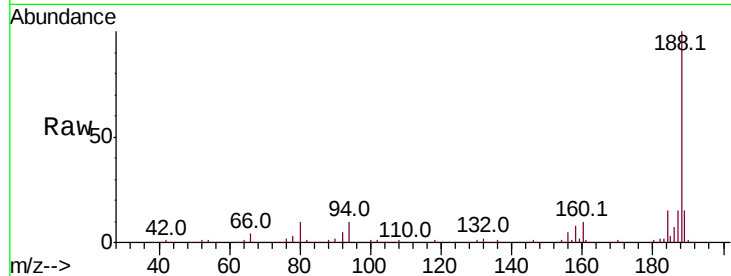
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :
B-4(3-4)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	438011		
94	9.5	8.1	12.1	
80	10.3	8.7	13.1	

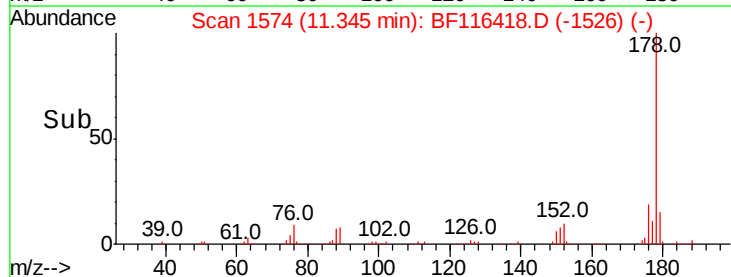
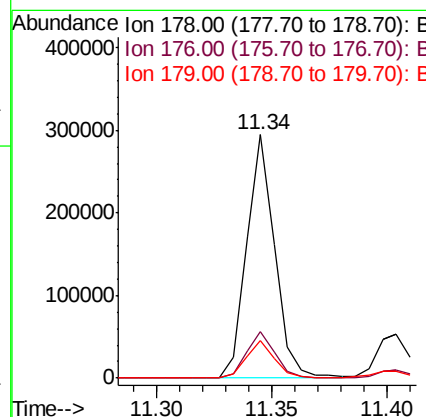
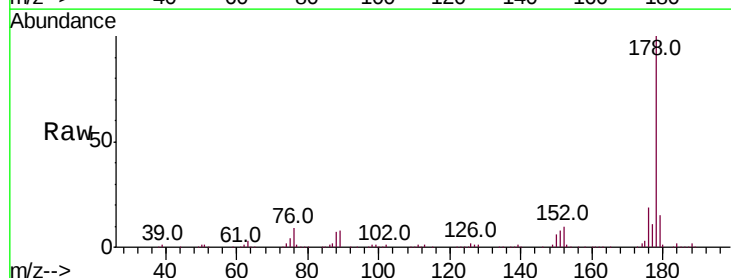
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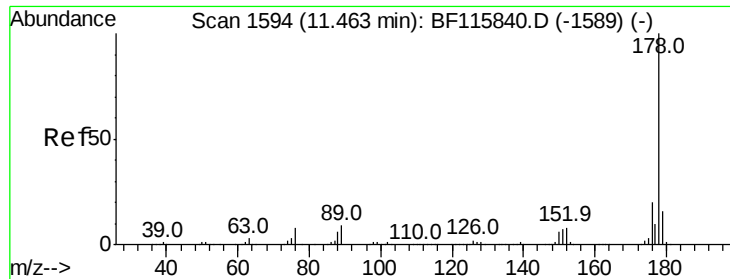
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#71
Phenanthrene
Concen: 11.214 ng
RT: 11.34 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	251096		
176	19.3	16.6	24.8	
179	15.4	12.5	18.7	





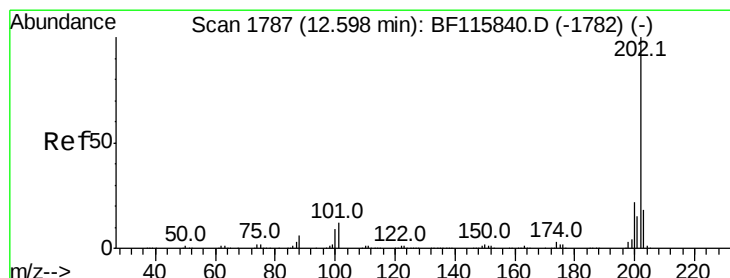
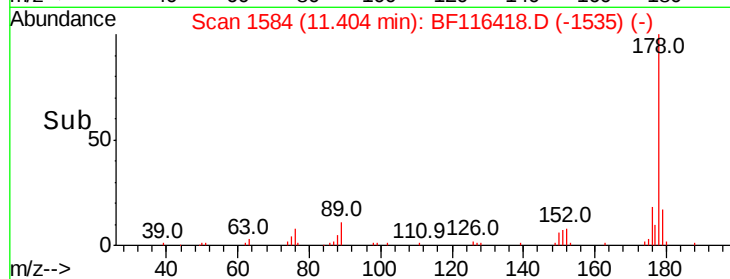
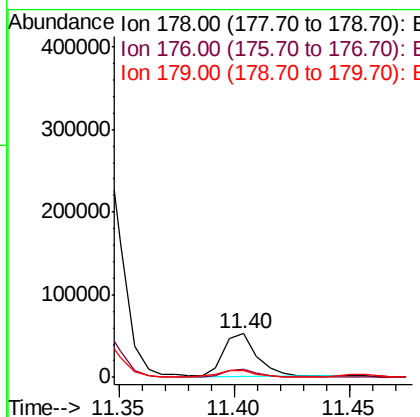
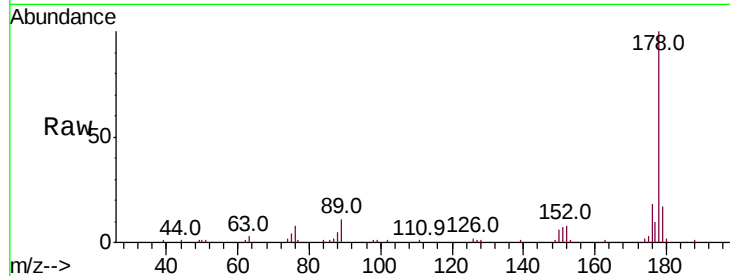
#72
 Anthracene
 Concen: 2.379 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Instrument :
 BNA_F
 ClientSampleId :
 B-4(3-4)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.7	23.5
179	16.6	13.0	19.6

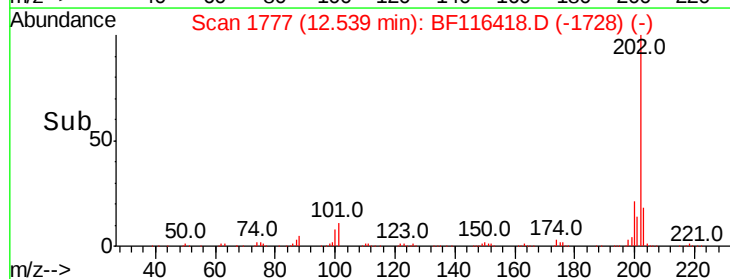
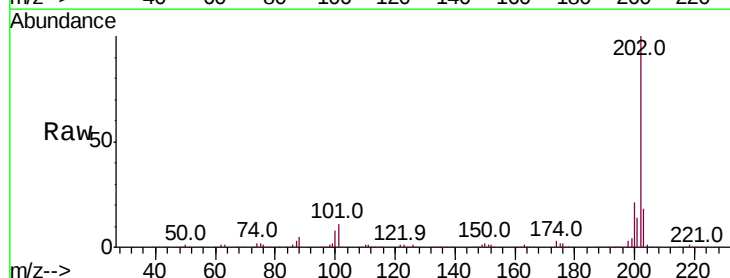
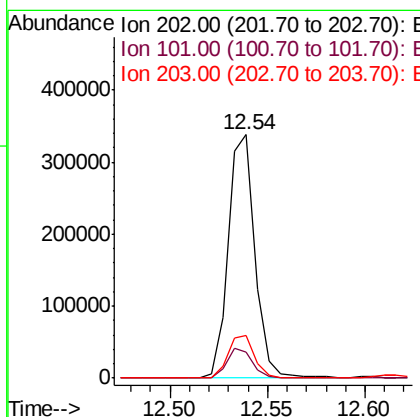
Manual Integrations
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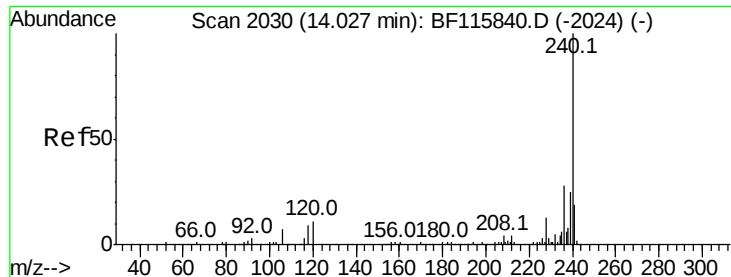
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#75
 Fluoranthene
 Concen: 13.682 ng
 RT: 12.54 min Scan# 1777
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.2
203	17.5	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

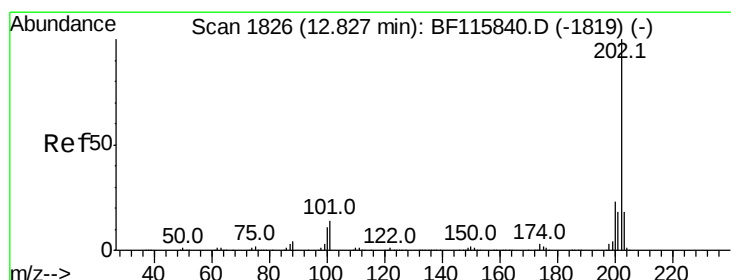
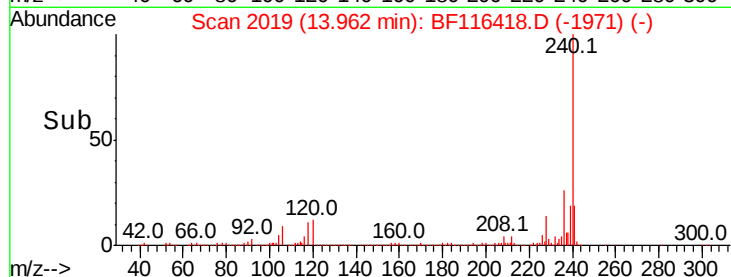
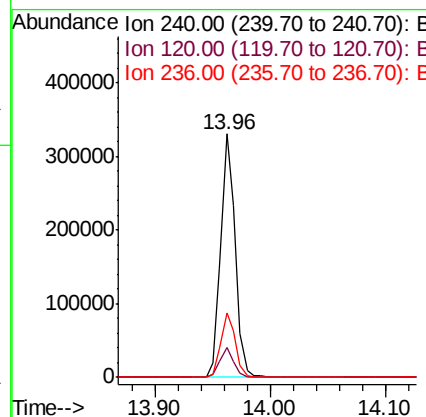
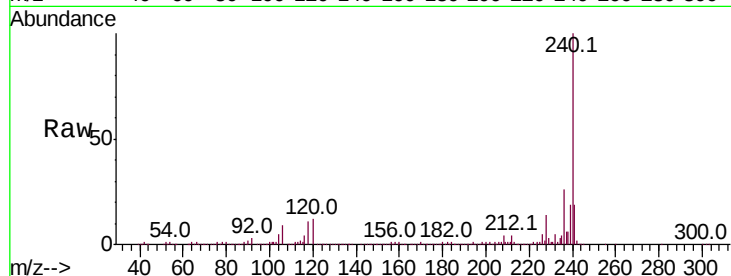
ClientSampleId :

B-4(3-4)

Tot Ion:	240	Resp:	286823
Ion Ratio	Lower	Upper	
240	100		
120	12.2	10.7	16.1
236	26.5	22.2	33.2

Manual Integrations
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#78

Pyrene

Concen: 13.607 ng

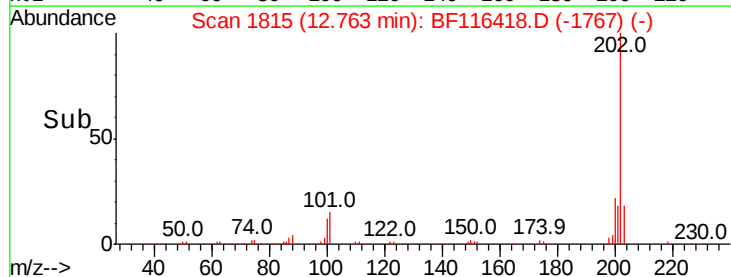
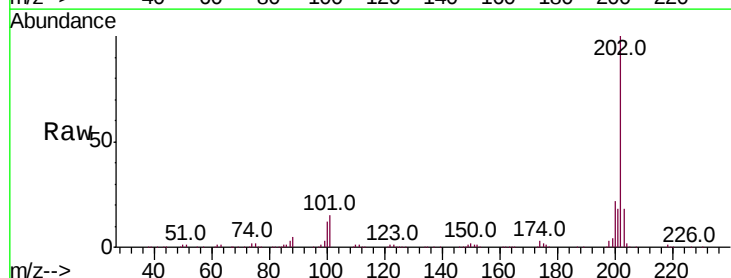
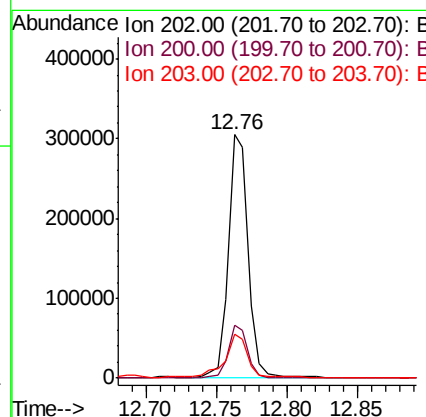
RT: 12.76 min Scan# 1815

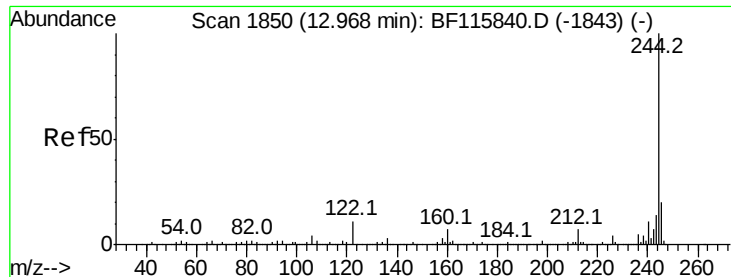
Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion:	202	Resp:	294197
Ion Ratio	Lower	Upper	
202	100		
200	21.6	18.0	27.0
203	17.9	14.1	21.1





#79

Terphenyl-d14

Concen: 9.420 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

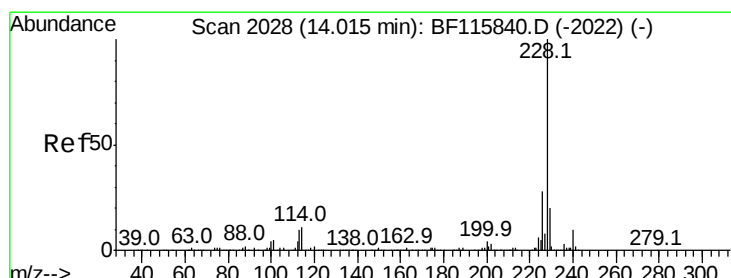
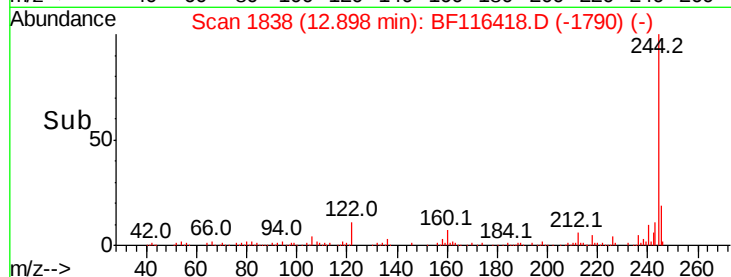
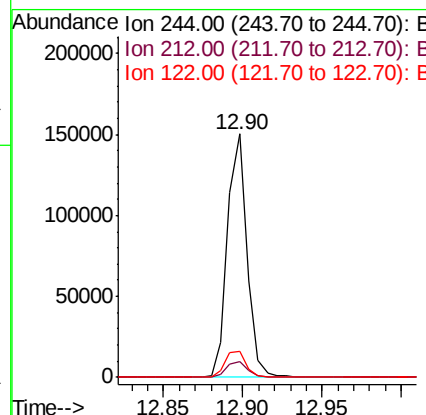
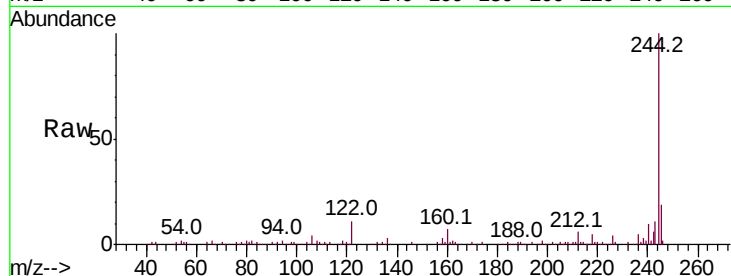
ClientSampleId :

B-4(3-4)

Tot Ion:	244	Resp:	128224
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.8	8.8
122	10.6	9.0	13.4

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#81

Benzo(a)anthracene

Concen: 7.097 ng

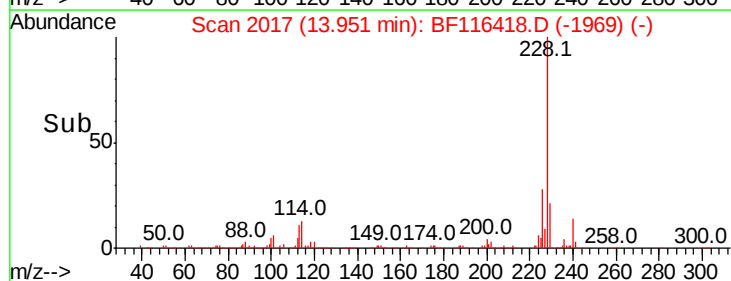
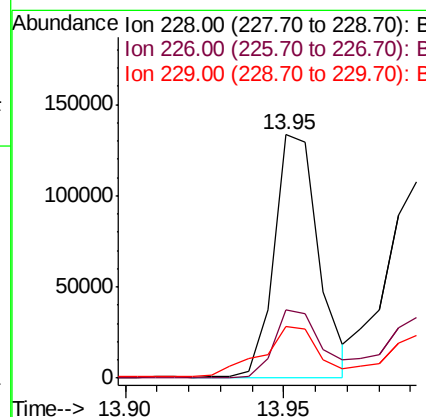
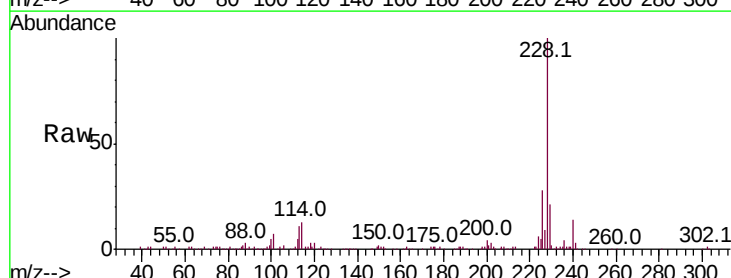
RT: 13.95 min Scan# 2017

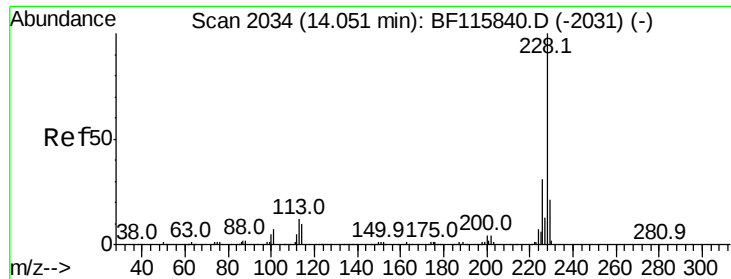
Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion:	228	Resp:	130112
Ion Ratio	Lower	Upper	
228	100		
226	28.1	22.7	34.1
229	21.1	16.2	24.4





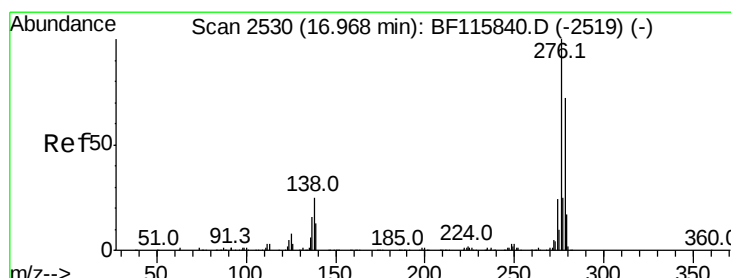
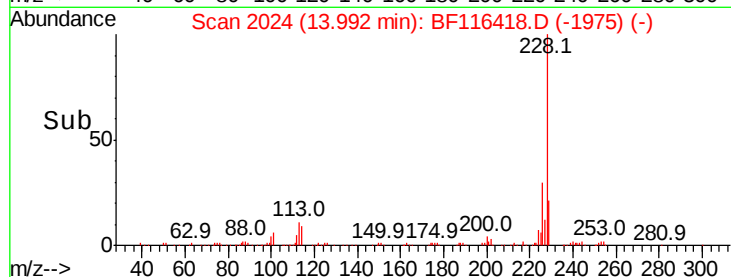
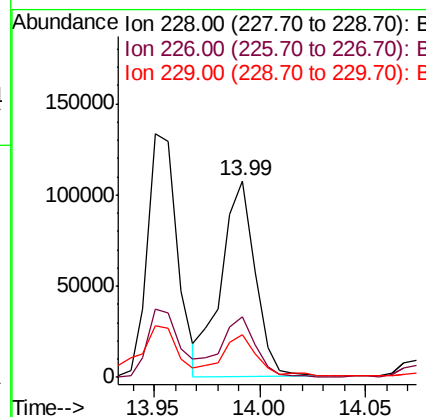
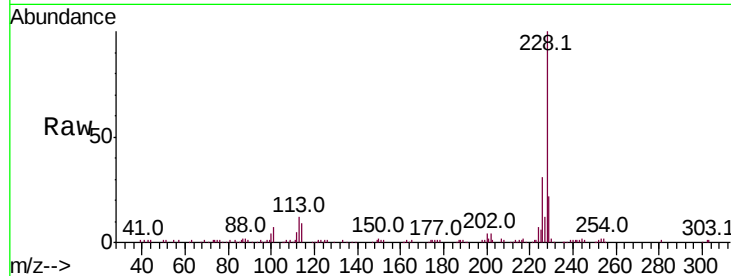
#83
Chrysene
Concen: 6.699 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :
B-4(3-4)

Tot Ion:228	Resp:	119225
Ion Ratio	Lower	Upper
228 100		
226 30.6	25.5	38.3
229 21.6	16.6	24.8

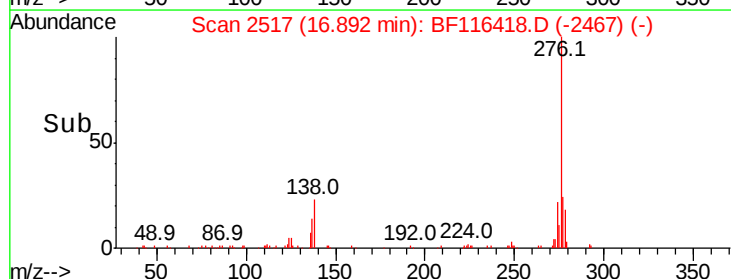
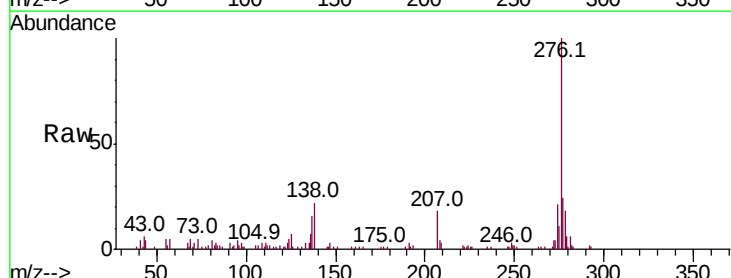
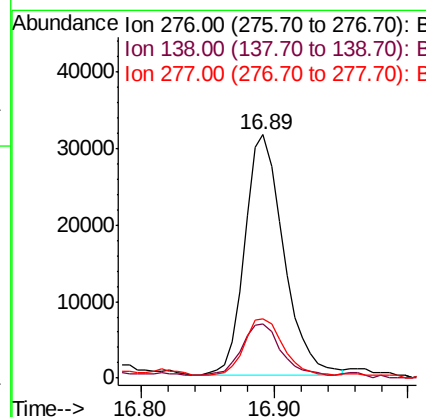
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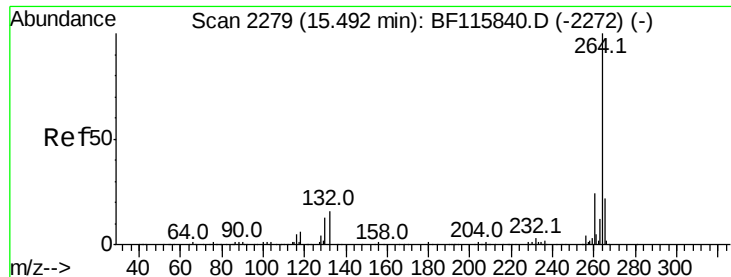
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#86
Indeno(1,2,3-cd)pyrene
Concen: 4.223 ng
RT: 16.89 min Scan# 2517
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion:276	Resp:	63135
Ion Ratio	Lower	Upper
276 100		
138 22.6	20.4	30.6
277 23.2	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

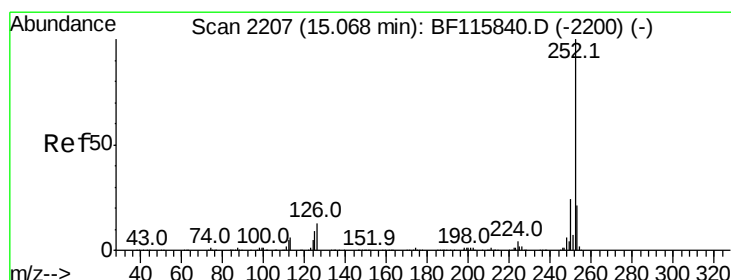
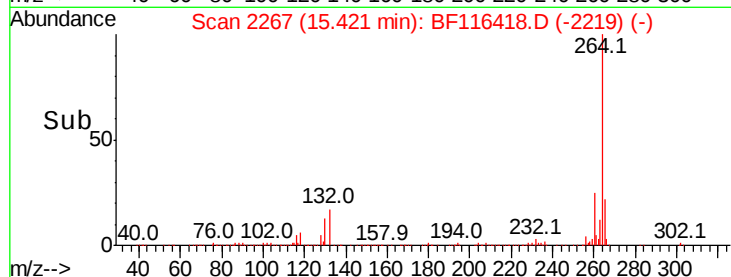
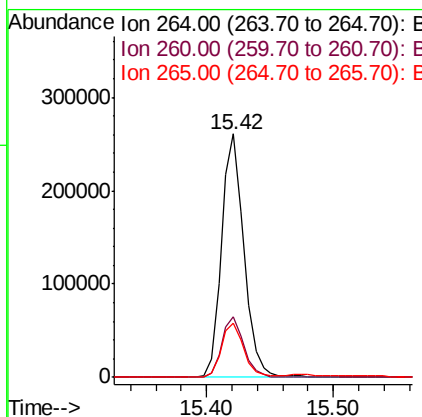
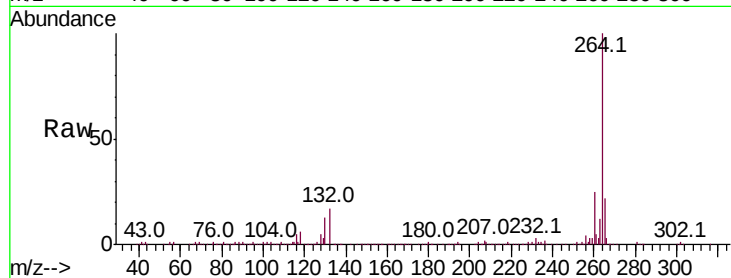
ClientSampleId :

B-4(3-4)

Tot Ion:	264	Resp:	320810
Ion Ratio	Lower	Upper	
264	100		
260	24.6	19.7	29.5
265	22.4	17.4	26.0

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#88

Benzo(b)fluoranthene

Concen: 8.677 ng m

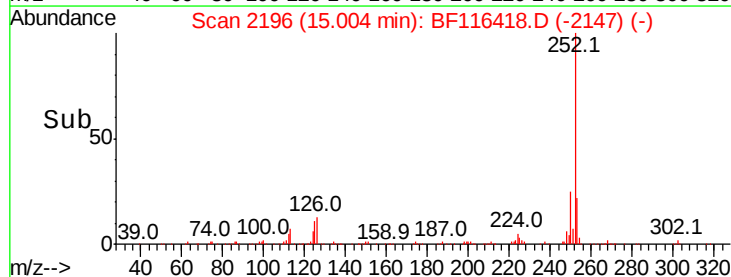
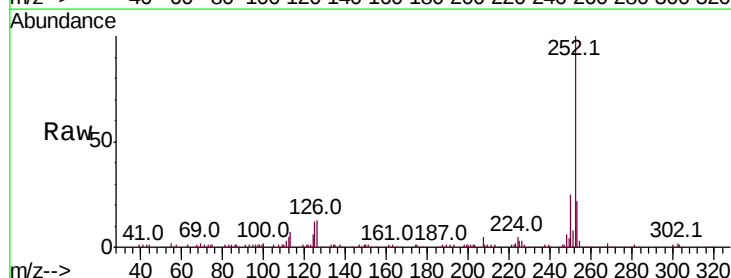
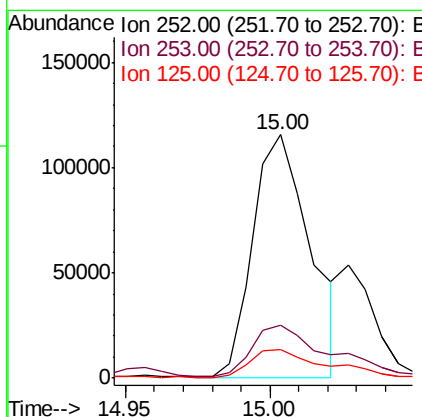
RT: 15.00 min Scan# 2196

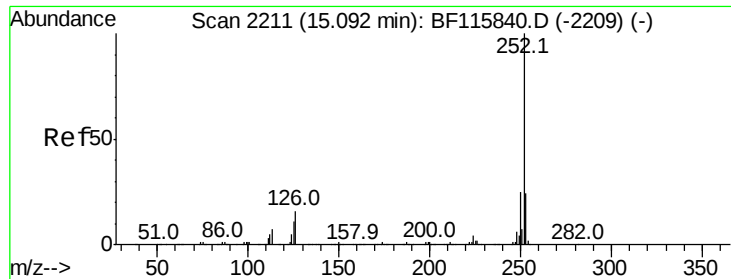
Delta R.T. -0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion:	252	Resp:	160951
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.8	26.8
125	11.8	8.4	12.6





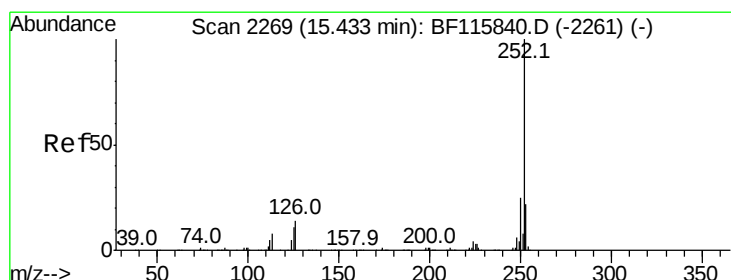
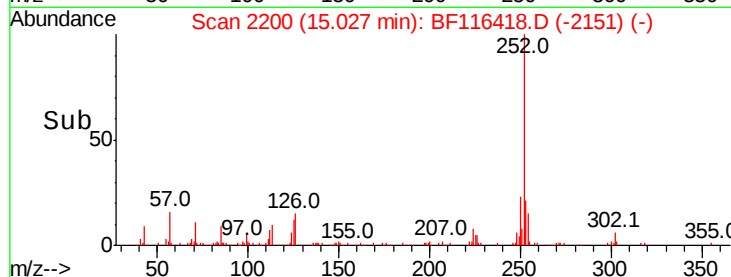
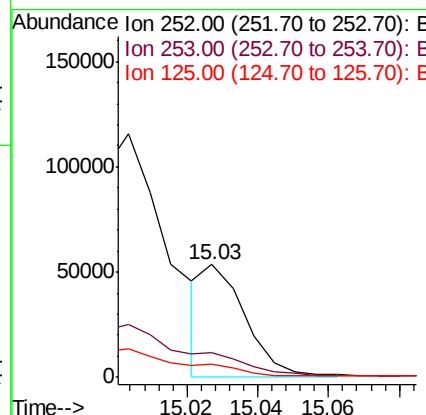
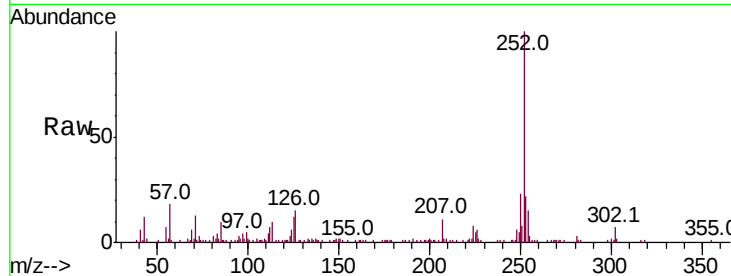
#89
Benzo(k)fluoranthene
Concen: 2.490 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :
B-4(3-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	12.1	7.7	11.5

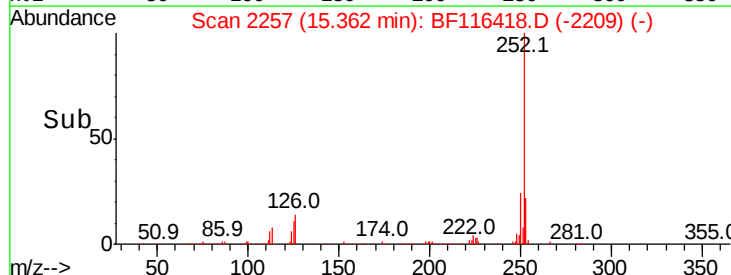
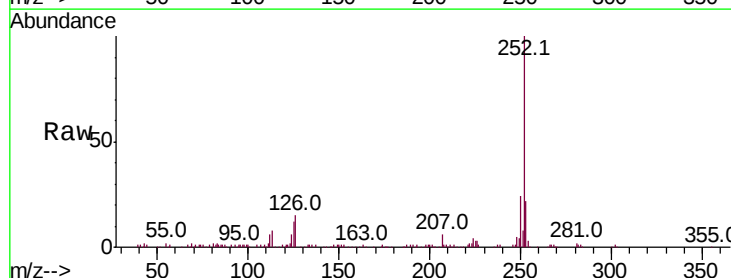
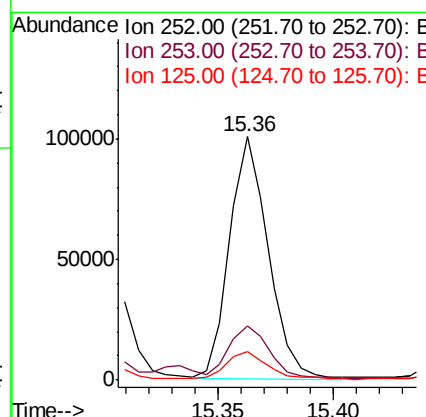
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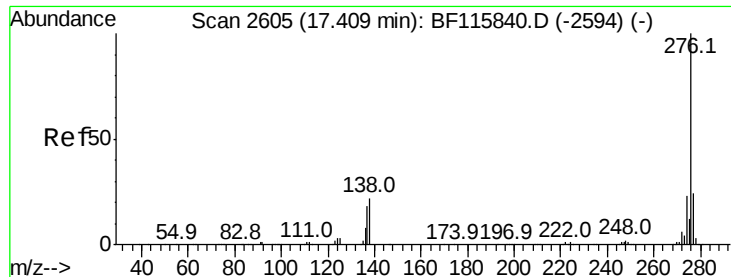
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#90
Benzo(a)pyrene
Concen: 7.103 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0
125	11.7	8.9	13.3





#92
 Benzo(a,h,i)perylene
 Concen: 4.360 ng
 RT: 17.33 min Scan# 2591
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Instrument :
 BNA_F
 ClientSampleId :
 B-4(3-4)

Tot Ion:	276	Resp:	61457
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.4	27.6
138	20.9	17.0	25.6

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