

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091119\
 Data File : BF116968.D
 Acq On : 12 Sep 2019 1:07
 Operator : HP/JU
 Sample : K4787-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-S(1-4)

Manual Integrations
 APPROVED

mohammad
 9/16/2019 8:58:16 AM

Quant Time: Sep 12 08:08:12 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	71786	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	288391	20.00	ng	-0.02
39) Acenaphthene-d10	9.86	164	144170	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	219989	20.00	ng	-0.02
76) Chrysene-d12	13.97	240	135612	20.00	ng	-0.02
87) Perylene-d12	15.42	264	169081	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	431065	97.28	ng	0.00
7) Phenol-d6	6.46	99	594021	102.09	ng	-0.02
23) Nitrobenzene-d5	7.38	82	367974	72.84	ng	-0.02
42) 2,4,6-Tribromophenol	10.64	330	103575	107.46	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	595518	69.68	ng	-0.02
79) Terphenyl-d14	12.92	244	430567	58.74	ng	-0.02
Target Compounds						Qvalue
50) Dimethylphthalate	9.57	163	77303	7.766	ng	99
71) Phenanthrene	11.36	178	271834	22.198	ng	99
72) Anthracene	11.41	178	76674	6.220	ng	98
75) Fluoranthene	12.54	202	364298	30.270	ng	99
78) Pyrene	12.77	202	392551	32.563	ng	99
81) Benzo(a)anthracene	13.96	228	140861	16.412	ng	99
83) Chrysene	13.99	228	119428	13.506	ng	97
86) Indeno(1,2,3-cd)pyrene	16.84	276	78051	10.989	ng	96
88) Benzo(b)fluoranthene	15.00	252	143649m	14.052	ng	
89) Benzo(k)fluoranthene	15.02	252	53517m	5.742	ng	
90) Benzo(a)pyrene	15.35	252	130926	14.721	ng	97
91) Dibenzo(a,h)anthracene	16.84	278	16821	2.161	ng	# 87
92) Benzo(a,h,i)perylene	17.27	276	75319	9.487	ng	95

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

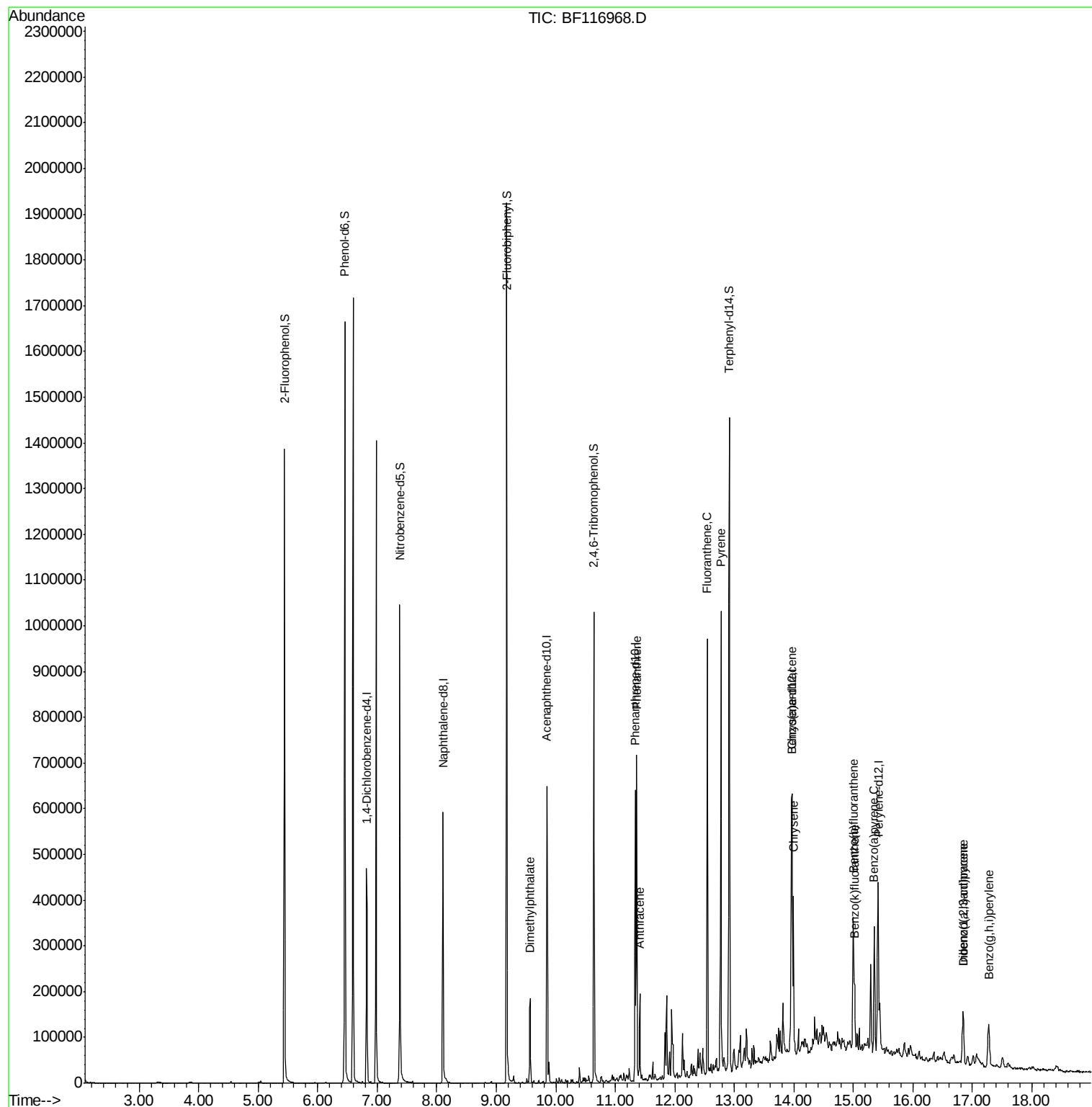
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091119\
Data File : BF116968.D
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#1

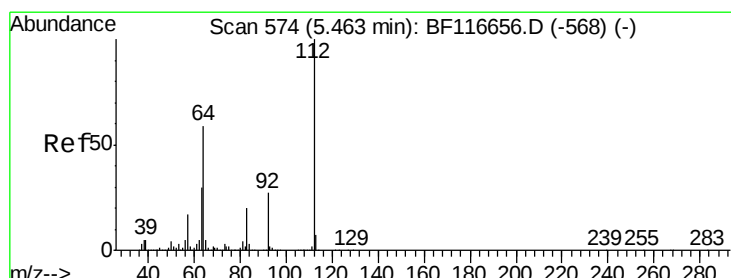
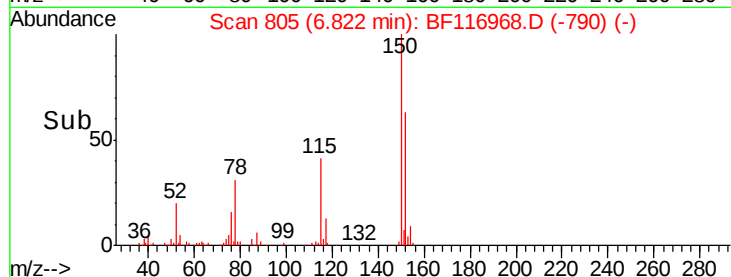
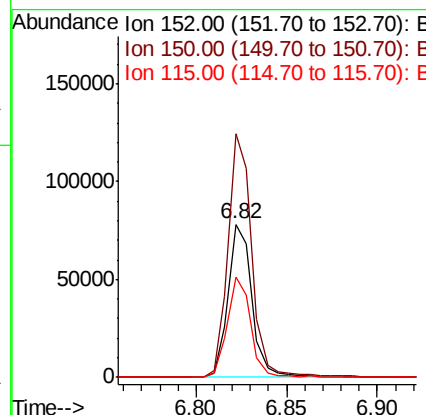
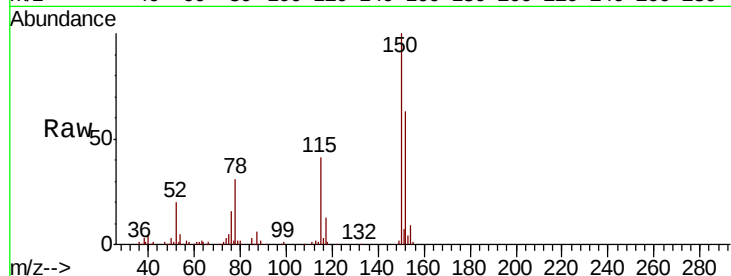
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampleId :
TP-5-S(1-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	124.4	186.6
115	65.8	49.9	74.9

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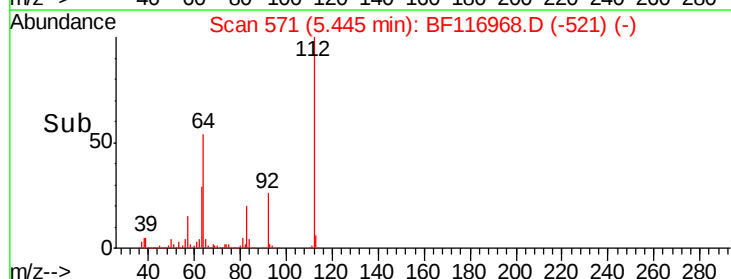
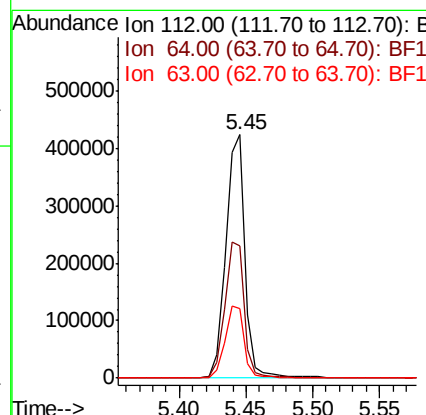
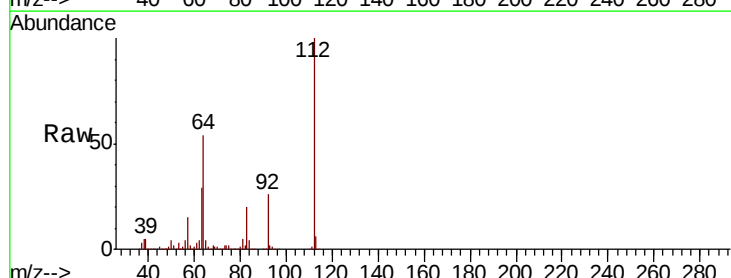
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#5

2-Fluorophenol
Concen: 97.282 ng
RT: 5.45 min Scan# 571
Delta R.T. -0.01 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	47.1	70.7
63	28.6	24.9	37.3





#7

Phenol-d6

Concen: 102.092 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Instrument :

BNA_F

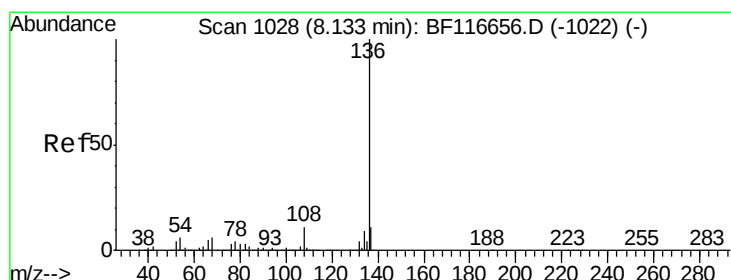
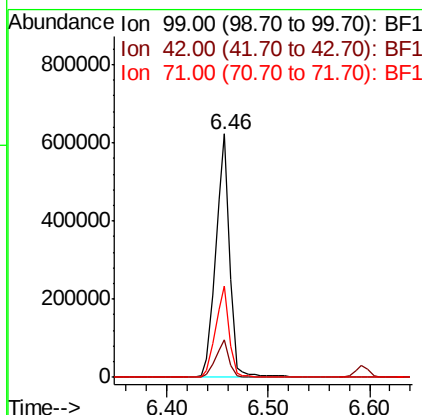
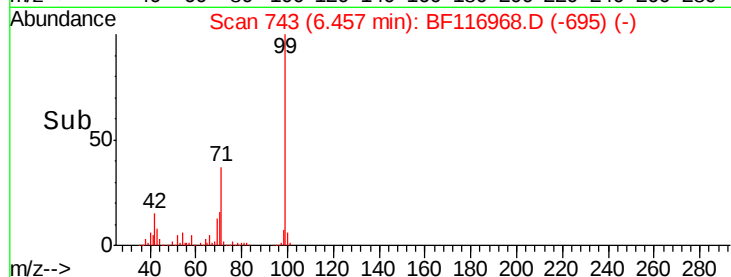
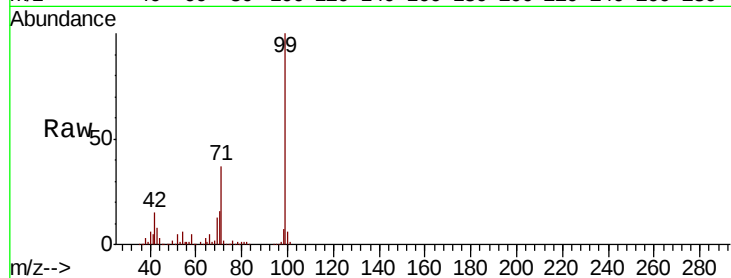
ClientSampleId :

TP-5-S(1-4)

Tot Ion:	99	Resp:	594021
Ion Ratio	Lower	Upper	
99	100		
42	15.4	13.7	20.5
71	37.3	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

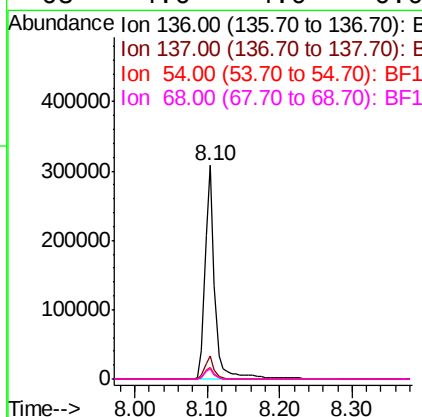
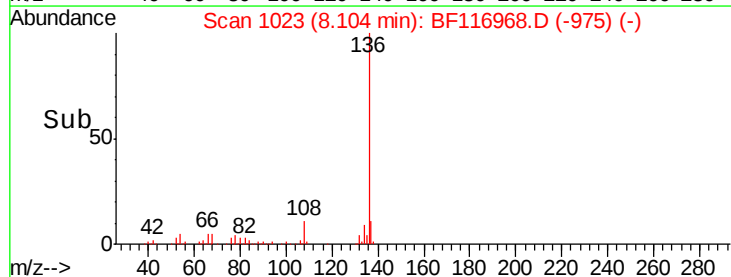
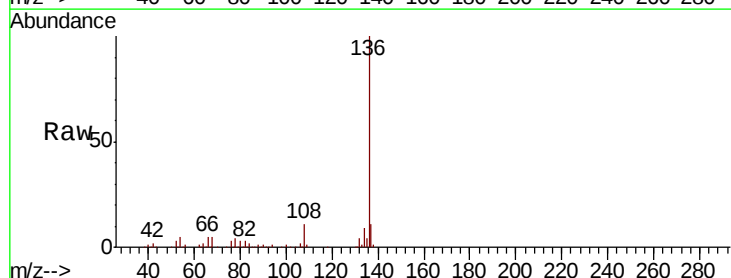
RT: 8.10 min Scan# 1023

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Tgt Ion:	136	Resp:	288391
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	5.2	4.8	7.2
68	4.6	4.0	6.0





#23

Nitrobenzene-d5

Concen: 72.841 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Instrument :

BNA_F

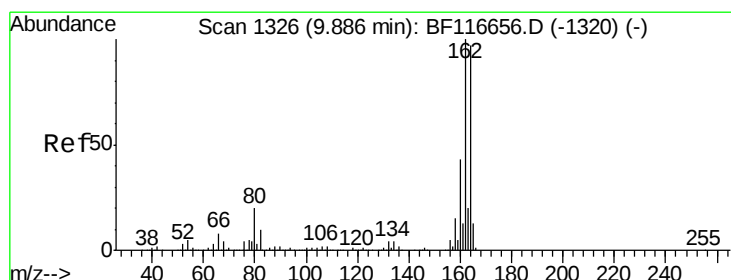
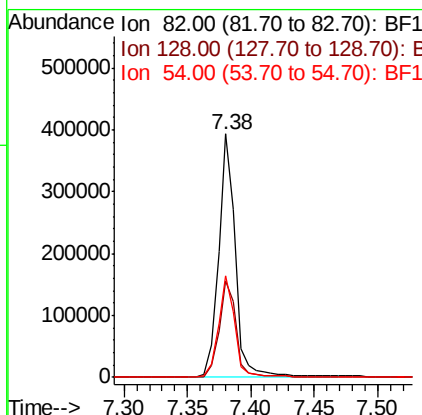
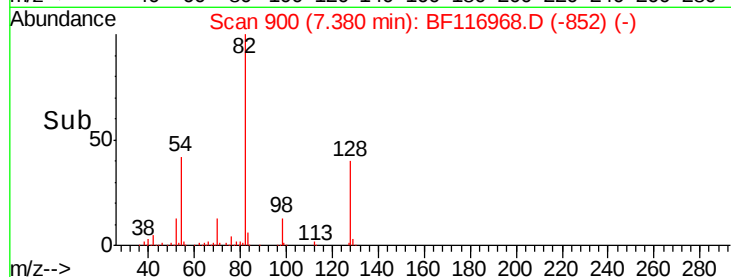
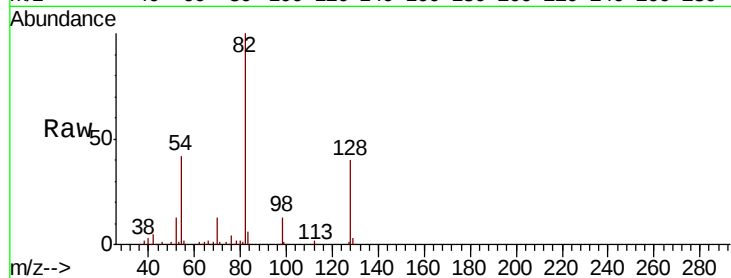
ClientSampleId :

TP-5-S(1-4)

Tot Ion	82	Resp	367974
Ion Ratio	Lower	Upper	
82	100		
128	39.9	32.8	49.2
54	41.7	36.9	55.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

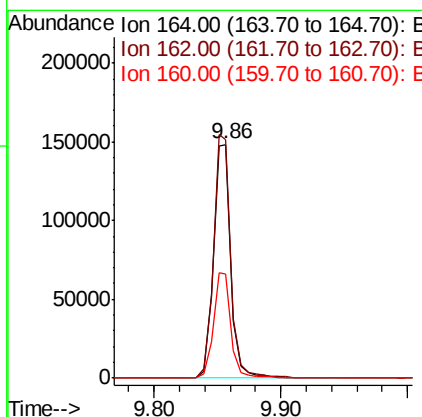
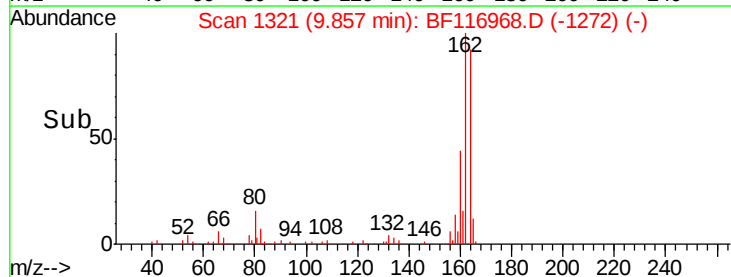
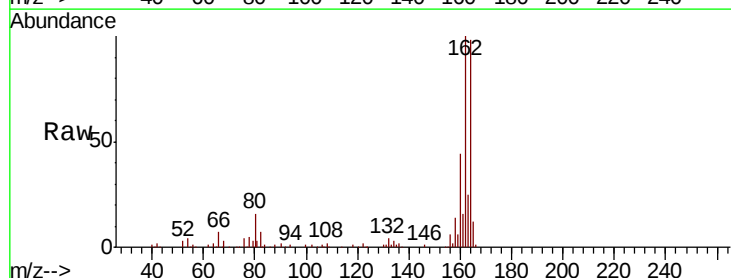
RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Tgt Ion	164	Resp	144170
Ion Ratio	Lower	Upper	
164	100		
162	101.9	81.4	122.0
160	44.6	35.4	53.2





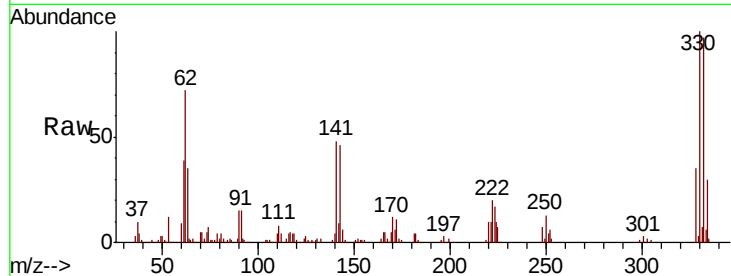
#42
 2,4,6-Tribromophenol
 Concen: 107.464 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: BF116968.D
 Acq: 12 Sep 2019 1:07

Instrument :
 BNA_F
 ClientSampled :
 TP-5-S(1-4)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	103575		
332	96.1	76.9	115.3	
141	46.9	31.4	47.2	

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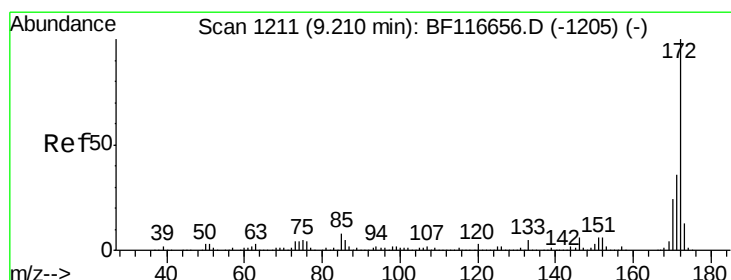
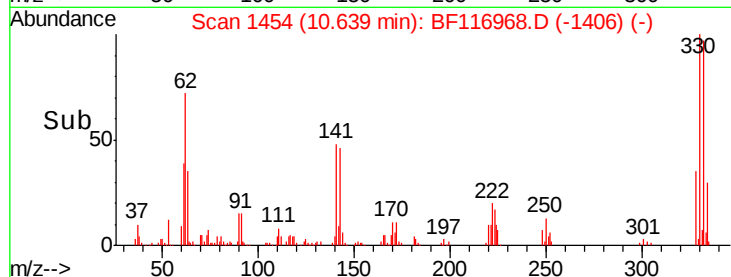
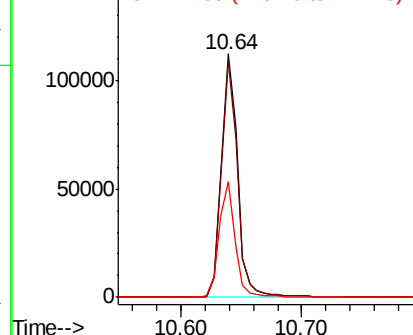


Abundance

Ion 329.80 (329.50 to 330.50): E

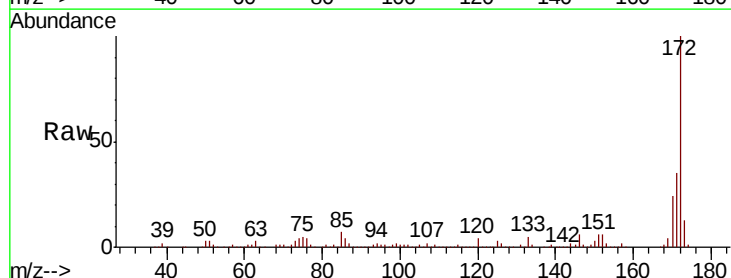
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 69.680 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.02 min
 Lab File: BF116968.D
 Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	595518		
171	35.5	27.8	41.6	
170	24.0	18.9	28.3	

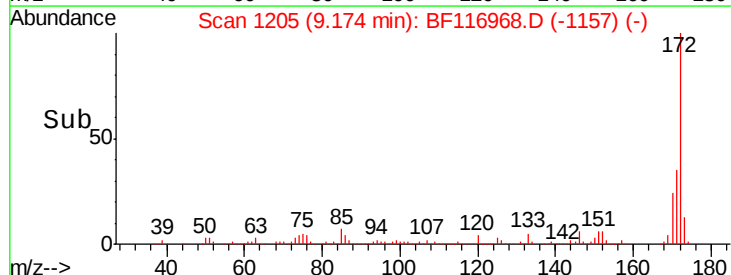
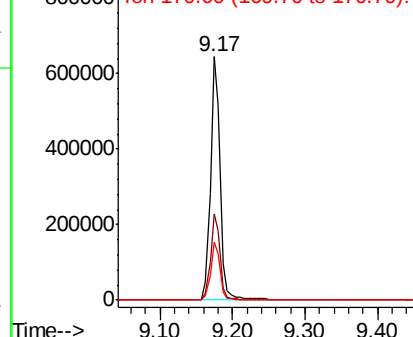


Abundance

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





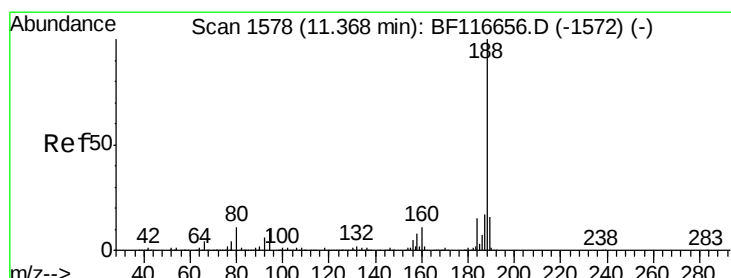
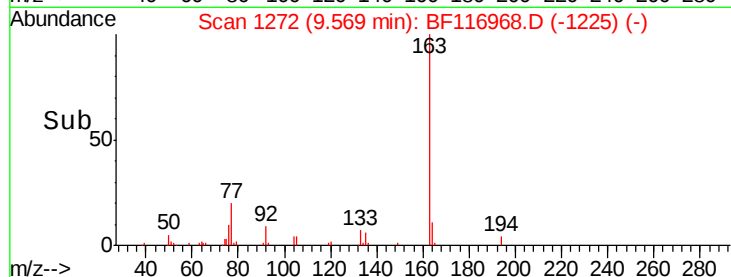
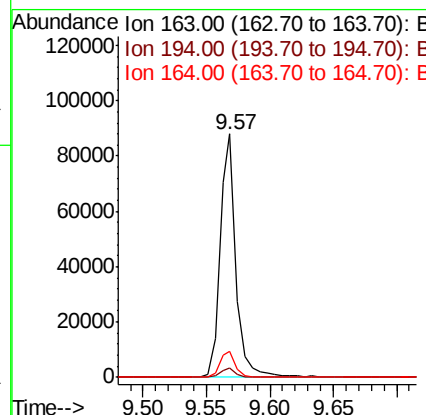
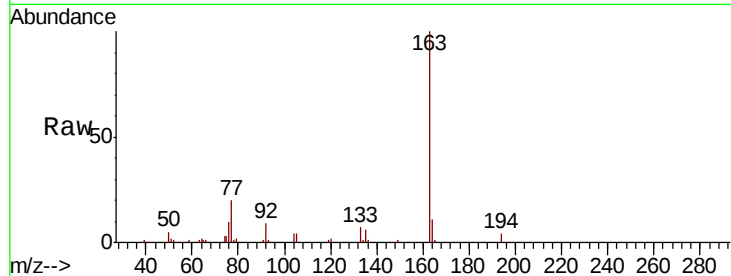
#50
Dimethylphthalate
Concen: 7.766 ng
RT: 9.57 min Scan# 1272
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampleId :
TP-5-S(1-4)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	77303		
194	4.1		2.8	4.2
164	10.8		8.6	12.8

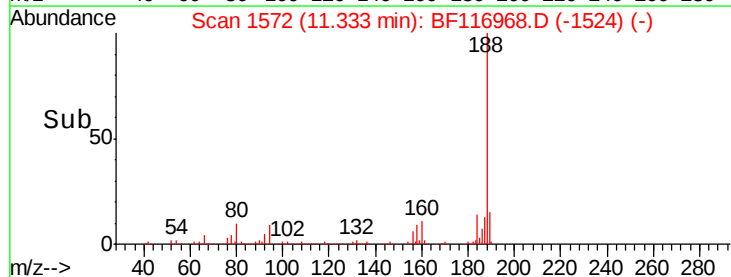
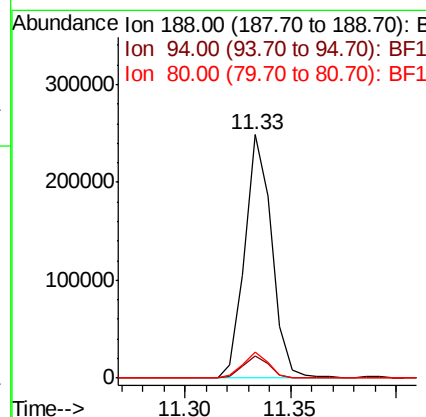
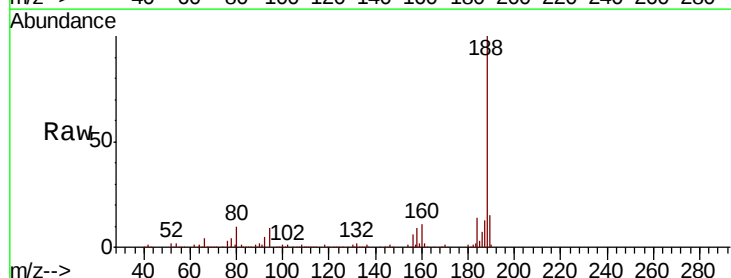
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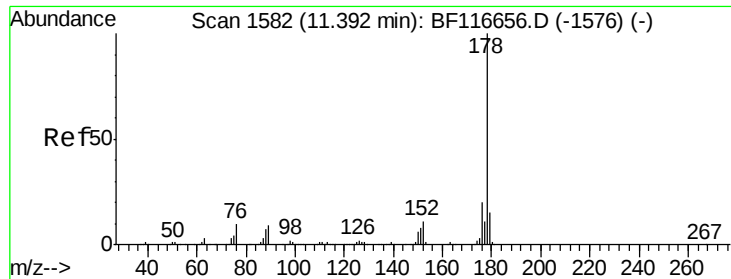
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	219989		
94	8.9		7.3	10.9
80	10.5		8.4	12.6





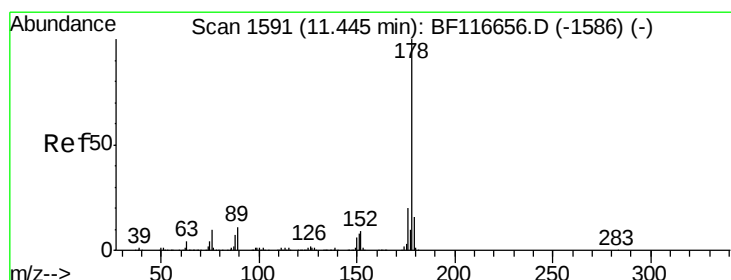
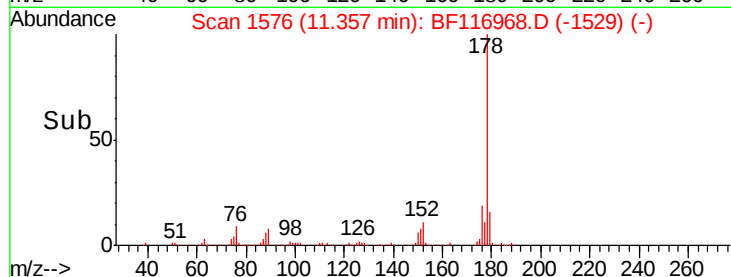
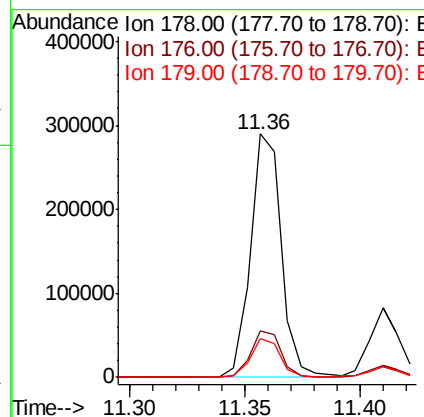
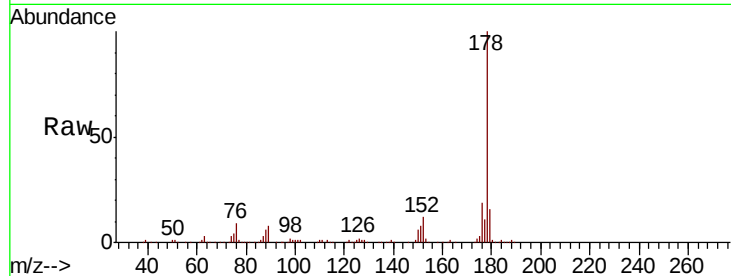
#71
Phenanthrene
Concen: 22.198 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampleId :
TP-5-S(1-4)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.7	12.2	18.2

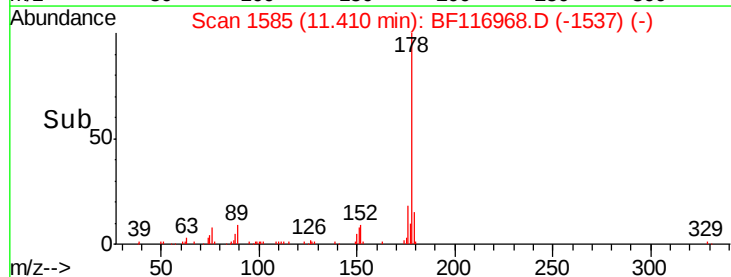
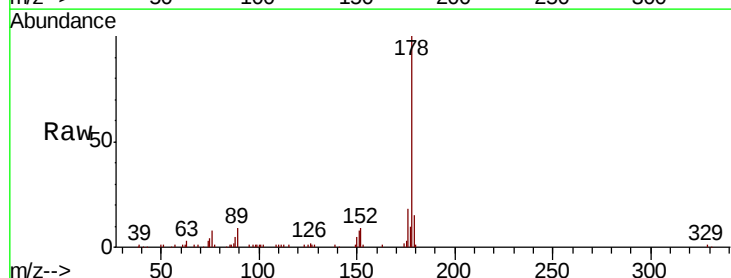
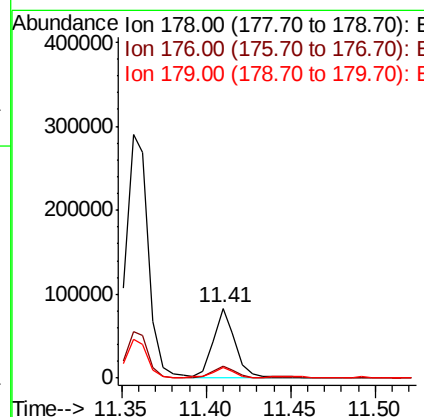
Manual Integrations
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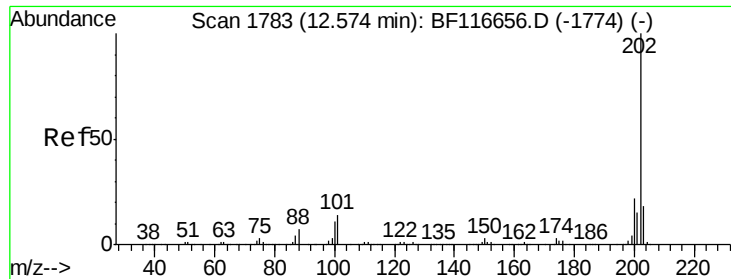
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#72
Anthracene
Concen: 6.220 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.0
179	15.3	12.5	18.7





#75

Fluoranthene

Concen: 30.270 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Instrument :

BNA_F

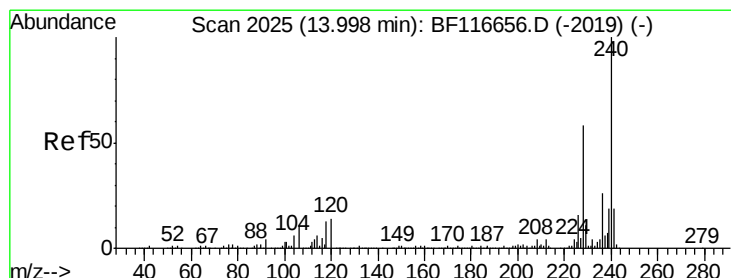
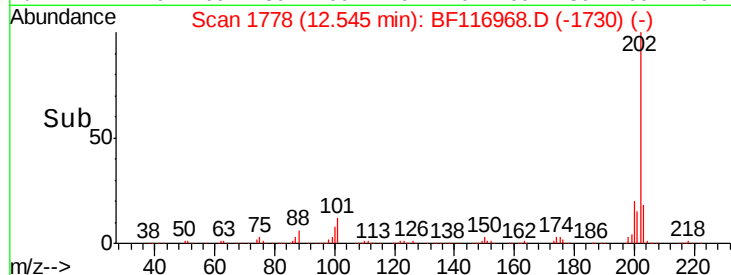
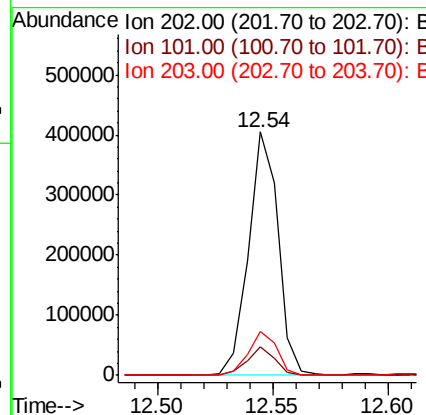
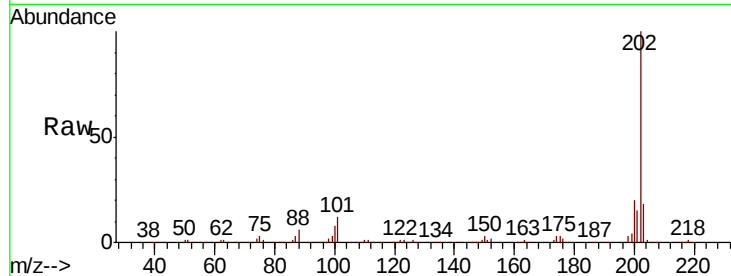
ClientSampled :

TP-5-S(1-4)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.7	0.0	31.3
203	17.8	0.0	37.6

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#76

Chrysene-d12

Concen: 20.000 ng

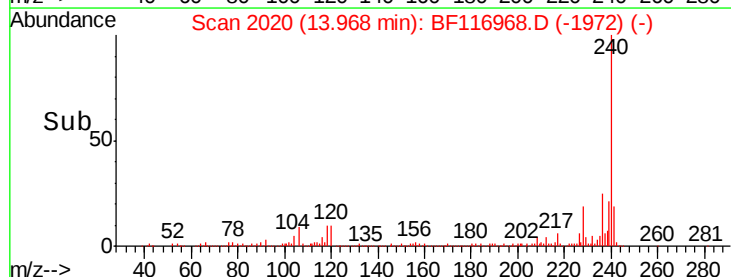
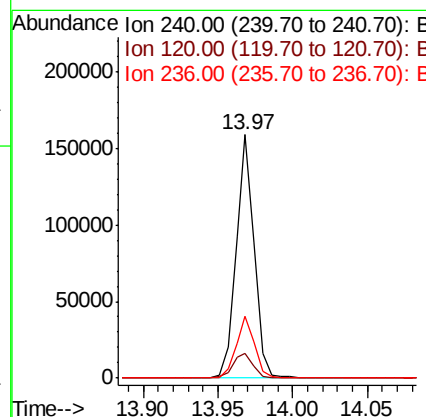
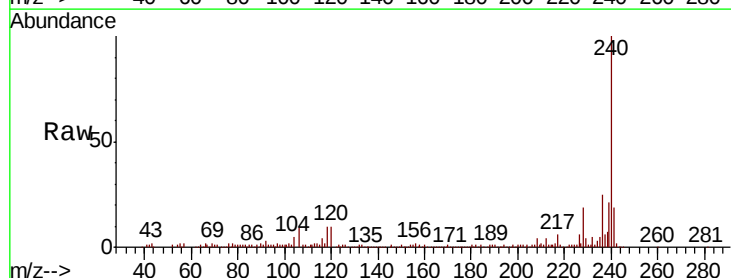
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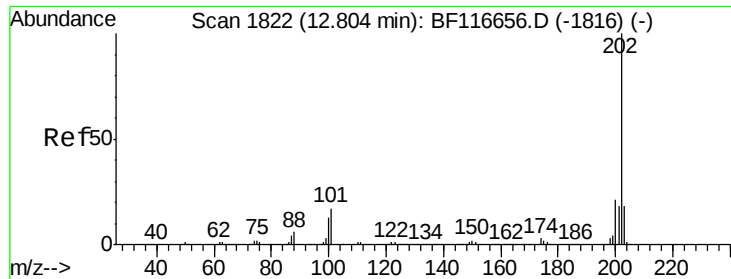
Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.3	9.1	13.7
236	25.2	21.1	31.7





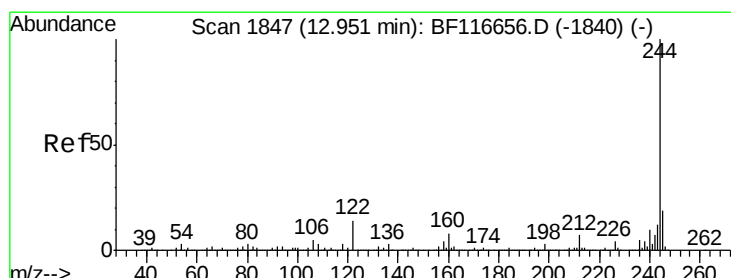
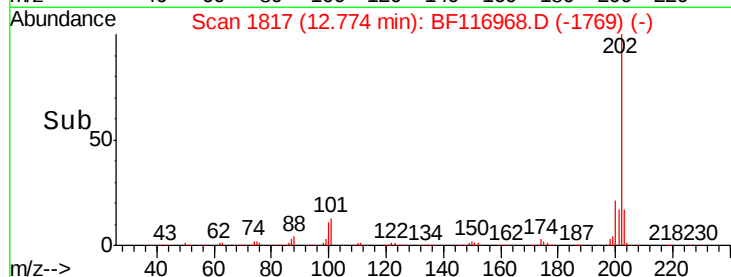
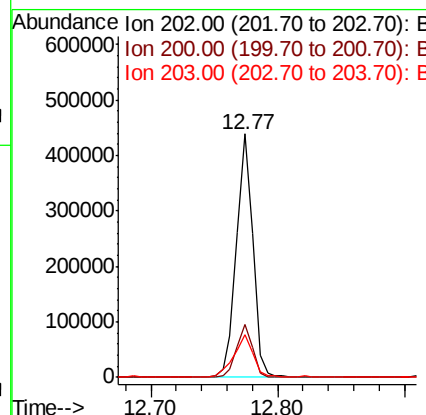
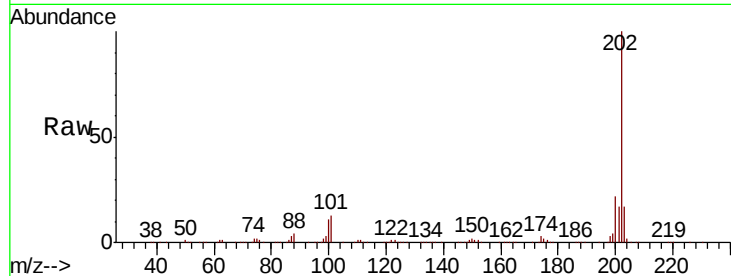
#78
Pvrene
Concen: 32.563 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampleId :
TP-5-S(1-4)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.5	16.5	24.7
203	17.4	13.7	20.5

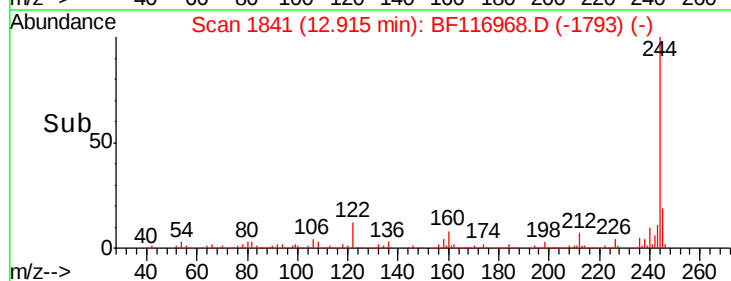
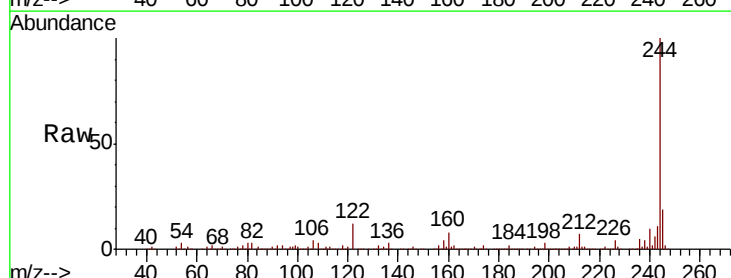
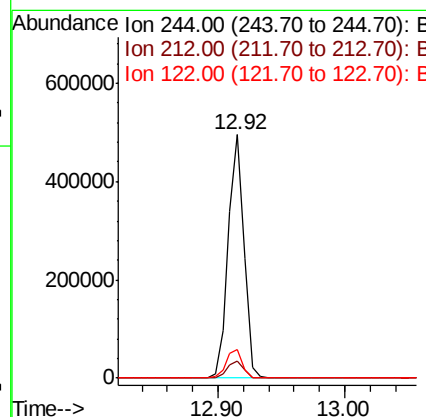
Manual Integrations
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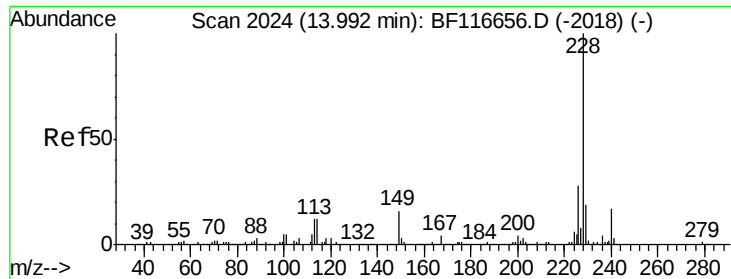
mohammad
9/16/2019 8:58:16 AM



#79
Terphenyl-d14
Concen: 58.736 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	6.1	9.1
122	12.0	10.2	15.4





#81

Benzo(a)anthracene

Concen: 16.412 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Instrument :

BNA_F

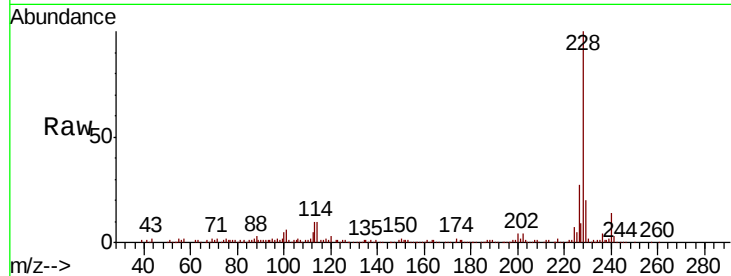
ClientSampleId :

TP-5-S(1-4)

Tot Ion:	228	Resp:	140861
Ion Ratio	Lower	Upper	
228	100		
226	27.2	22.0	33.0
229	19.9	16.4	24.6

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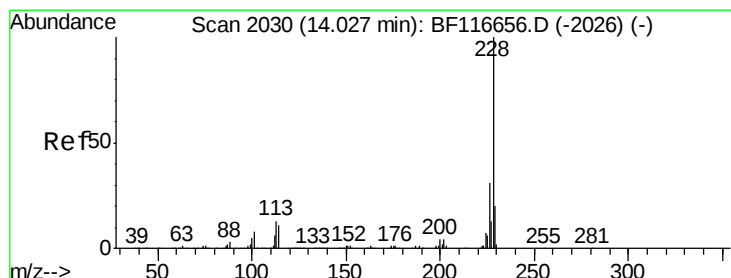
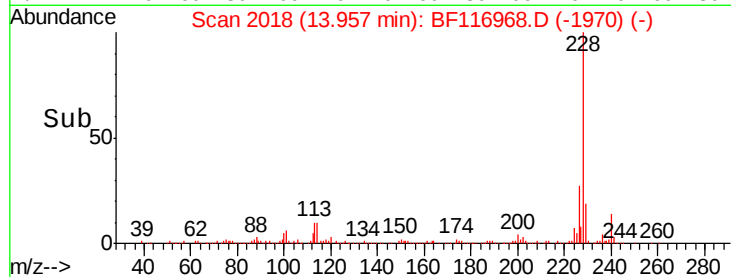
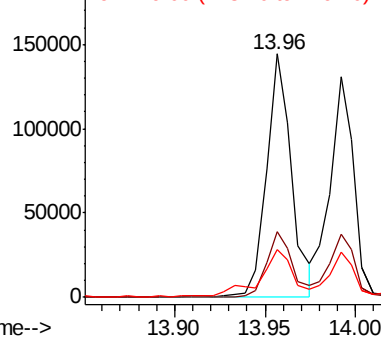


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 13.506 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

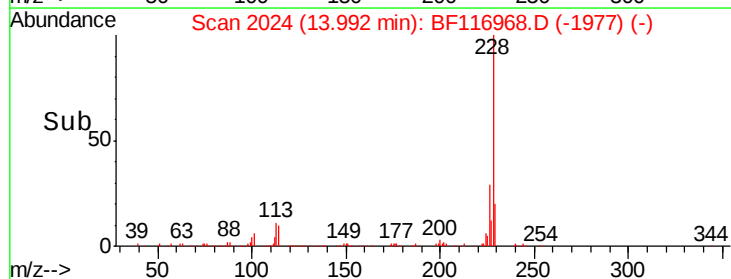
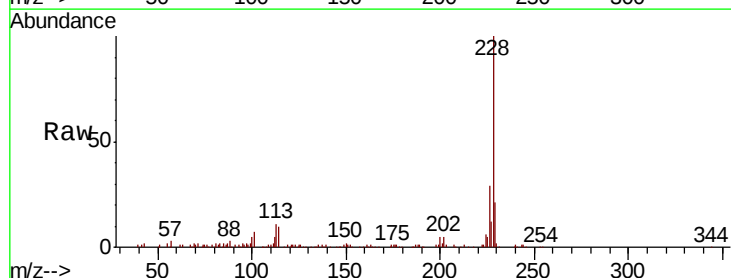
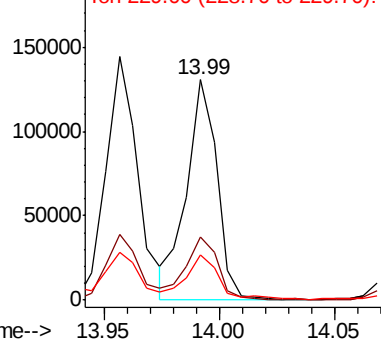
Tgt Ion:	228	Resp:	119428
Ion Ratio	Lower	Upper	
228	100		
226	28.8	24.0	36.0
229	20.7	15.4	23.0

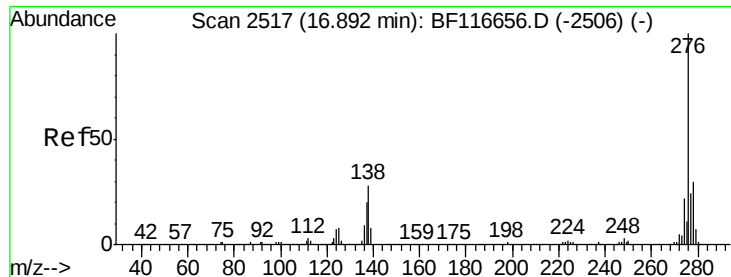
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





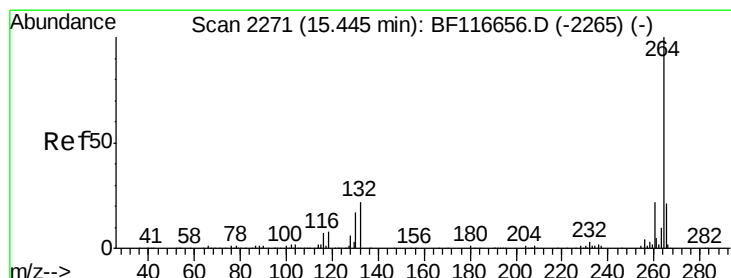
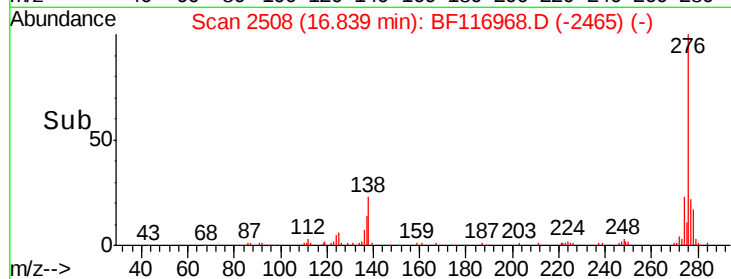
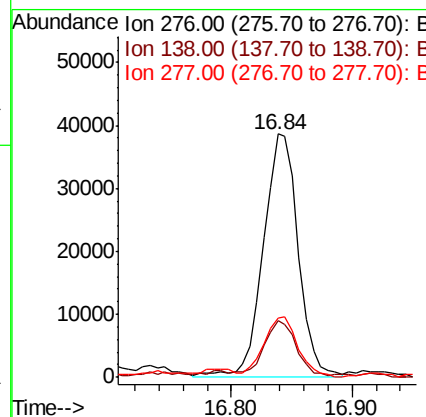
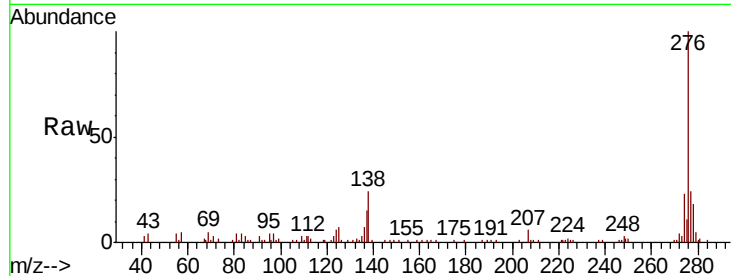
#86
Indeno(1,2,3-cd)pyrene
Concen: 10.989 ng
RT: 16.84 min Scan# 2508
Delta R.T. -0.05 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampled :
TP-5-S(1-4)

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.2	19.4	29.2
277	24.1	20.5	30.7

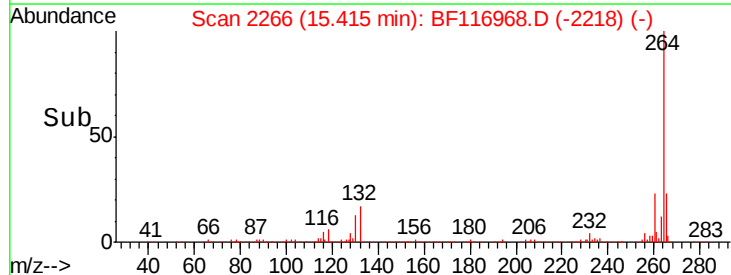
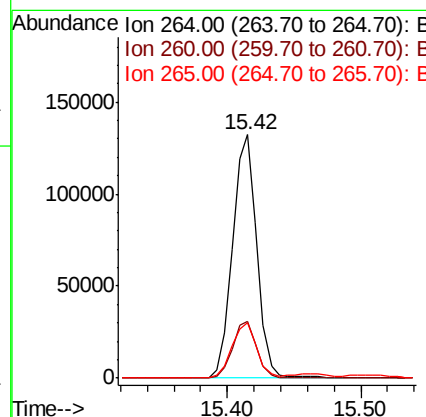
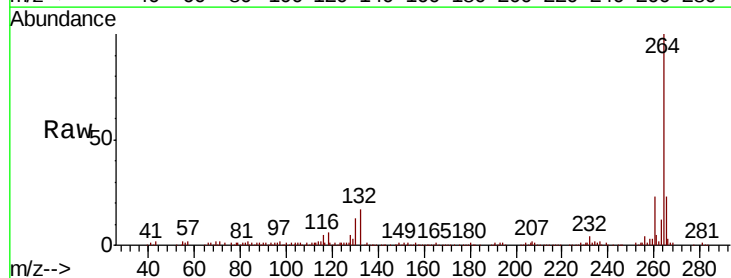
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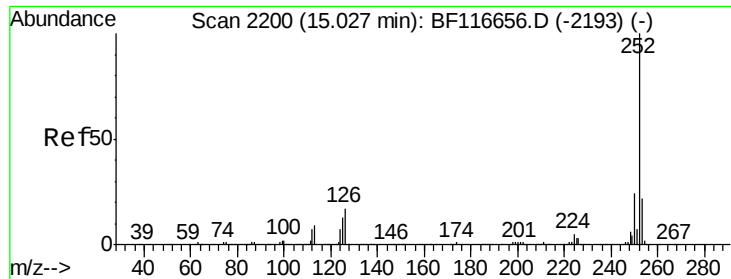
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.3	27.5
265	22.6	16.5	24.7





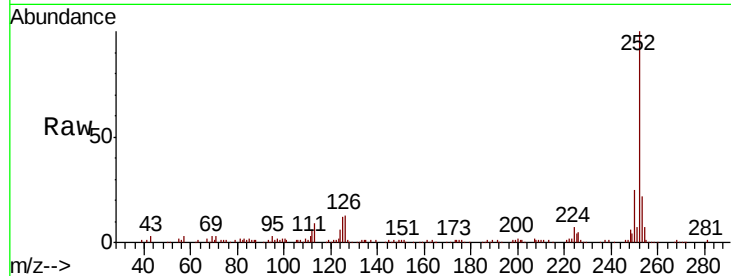
#88
Benzo(b)fluoranthene
Concen: 14.052 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

Instrument :
BNA_F
ClientSampled :
TP-5-S(1-4)

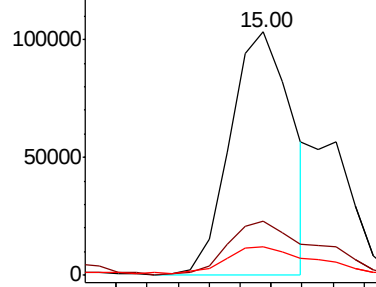
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.7	8.2	12.2

Manual Integrations
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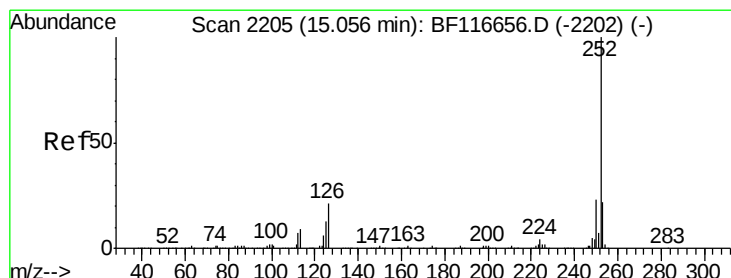
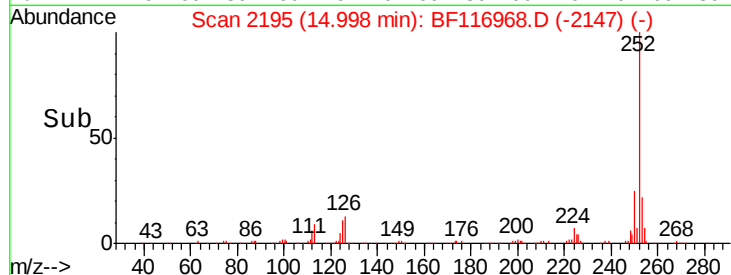
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



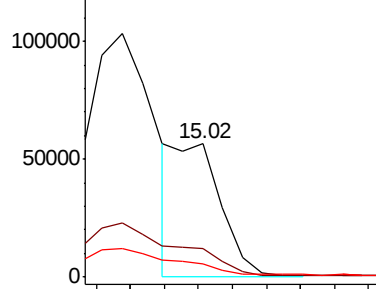
Time-->



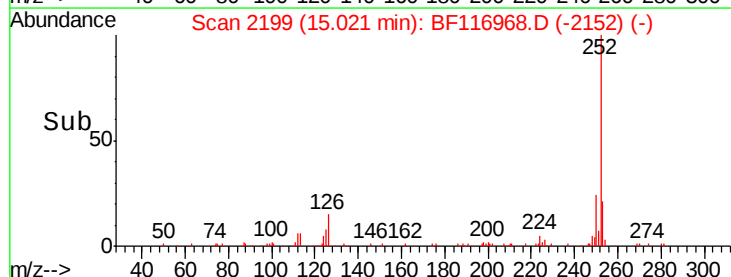
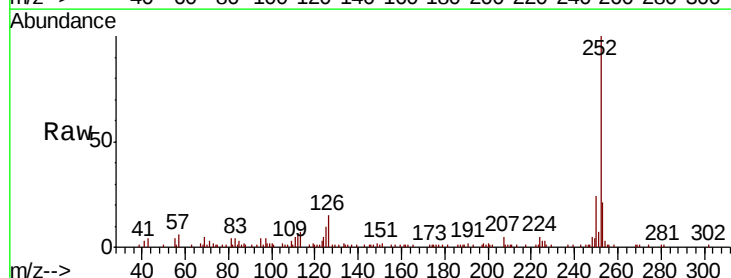
#89
Benzo(k)fluoranthene
Concen: 5.742 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF116968.D
Acq: 12 Sep 2019 1:07

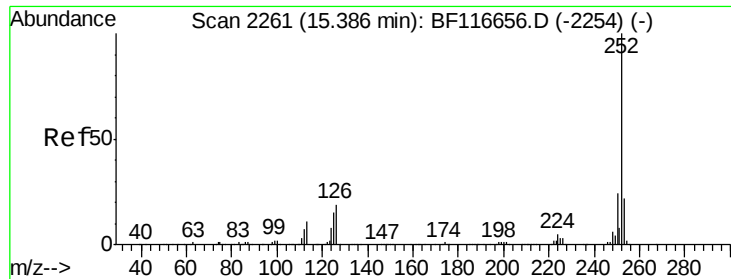
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.7	26.5
125	9.9	8.6	13.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#90

Benzo(a)pyrene

Concen: 14.721 ng

RT: 15.35 min Scan# 2255

Delta R.T. -0.03 min

Lab File: BF116968.D

Acq: 12 Sep 2019 1:07

Instrument :

BNA_F

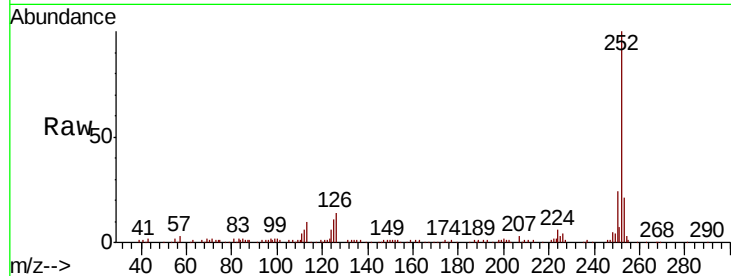
ClientSampleId :

TP-5-S(1-4)

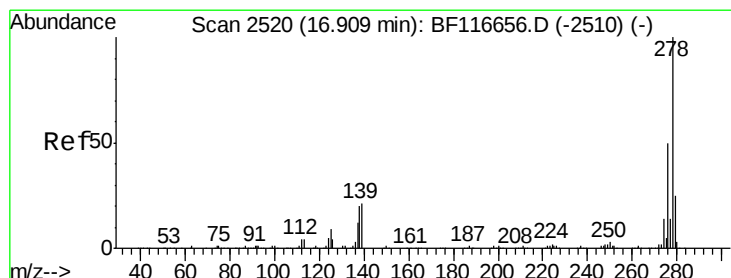
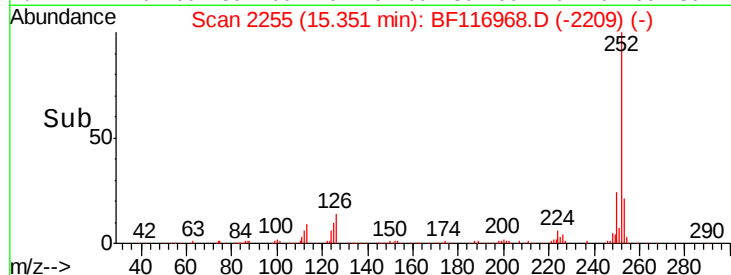
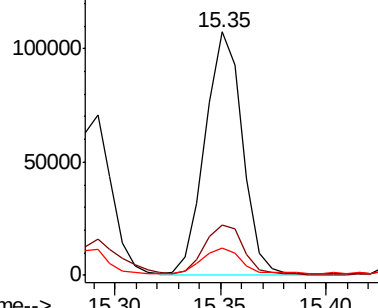
Tot Ion:	252	Resp:	130926
Ion Ratio	Lower	Upper	
252	100		
253	20.8	18.1	27.1
125	11.3	9.8	14.8

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 2.161 ng

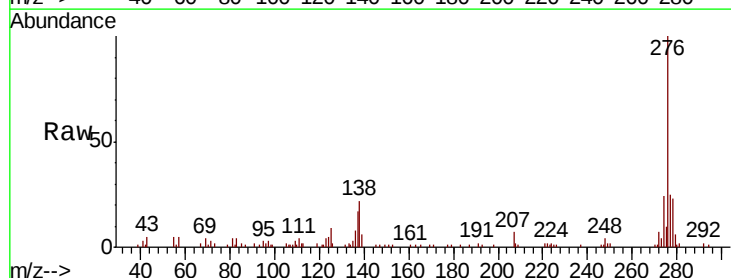
RT: 16.84 min Scan# 2509

Delta R.T. -0.05 min

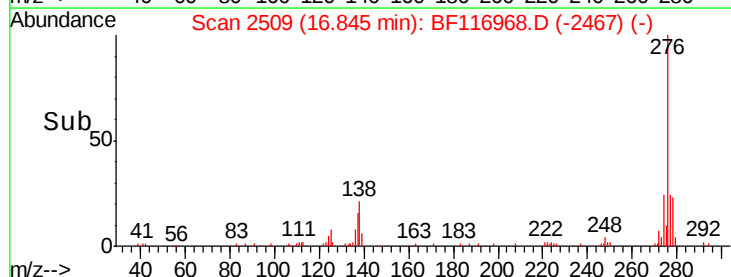
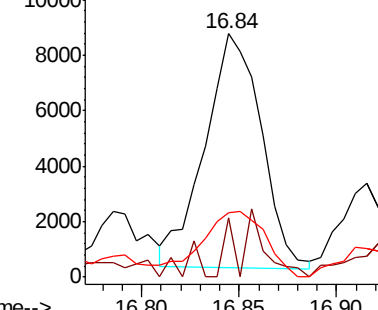
Lab File: BF116968.D

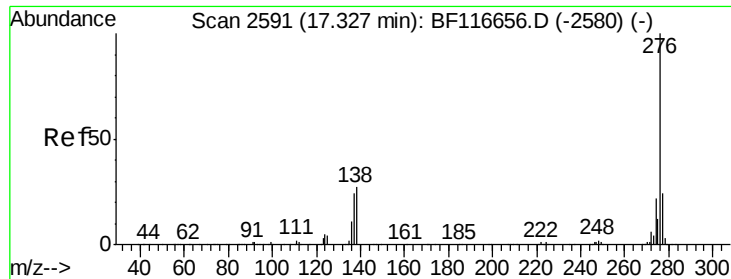
Acq: 12 Sep 2019 1:07

Tgt Ion:	278	Resp:	16821
Ion Ratio	Lower	Upper	
278	100		
139	24.4	12.4	18.6#
279	26.4	18.2	27.4



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 9.487 ng
 RT: 17.27 min Scan# 2582
 Delta R.T. -0.05 min
 Lab File: BF116968.D
 Acq: 12 Sep 2019 1:07

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-S(1-4)

Tot Ion:	276	Resp:	75319
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.5	27.7
138	23.3	16.2	24.2

Manual Integrations
 APPROVED

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