

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117630.D
 Acq On : 30 Oct 2019 17:46
 Operator : JU
 Sample : K5542-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 199-48-(0-1.2)

Manual Integrations
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Quant Time: Oct 31 03:41:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	37315	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	149851	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	71249	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	104221	20.00	ng	0.00
76) Chrysene-d12	13.90	240	79500	20.00	ng	0.00
87) Perylene-d12	15.33	264	65105	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	207246	82.63	ng	0.00
7) Phenol-d6	6.39	99	287716	85.41	ng	0.00
23) Nitrobenzene-d5	7.29	82	167995	55.35	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	44784	72.64	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	291770	57.70	ng	-0.01
79) Terphenyl-d14	12.83	244	241391	49.53	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.40	94	7879	2.292	ng	# 70
50) Dimethylphthalate	9.48	163	43372	8.539	ng	99
52) Acenaphthene	9.79	154	29108	7.263	ng	99
55) Dibenzofuran	9.97	168	30041	5.174	ng	96
58) Fluorene	10.31	166	46447	9.673	ng	97
71) Phenanthrene	11.27	178	445716	73.651	ng	99
72) Anthracene	11.33	178	145729	23.469	ng	98
73) Carbazole	11.49	167	40784	7.187	ng	99
75) Fluoranthene	12.47	202	495751	81.831	ng	99
78) Pyrene	12.70	202	398332	58.333	ng	100
81) Benzo(a)anthracene	13.89	228	185547	34.600	ng	99
83) Chrysene	13.92	228	149324	28.412	ng	99
86) Indeno(1,2,3-cd)pyrene	16.75	276	53442	13.620	ng	95
88) Benzo(b)fluoranthene	14.93	252	151280m	39.349	ng	
89) Benzo(k)fluoranthene	14.94	252	54478m	13.825	ng	
90) Benzo(a)pyrene	15.27	252	102609	29.355	ng	# 94
91) Dibenzo(a,h)anthracene	16.74	278	11229	3.715	ng	# 75
92) Benzo(g,h,i)perylene	17.18	276	46743	16.345	ng	94

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

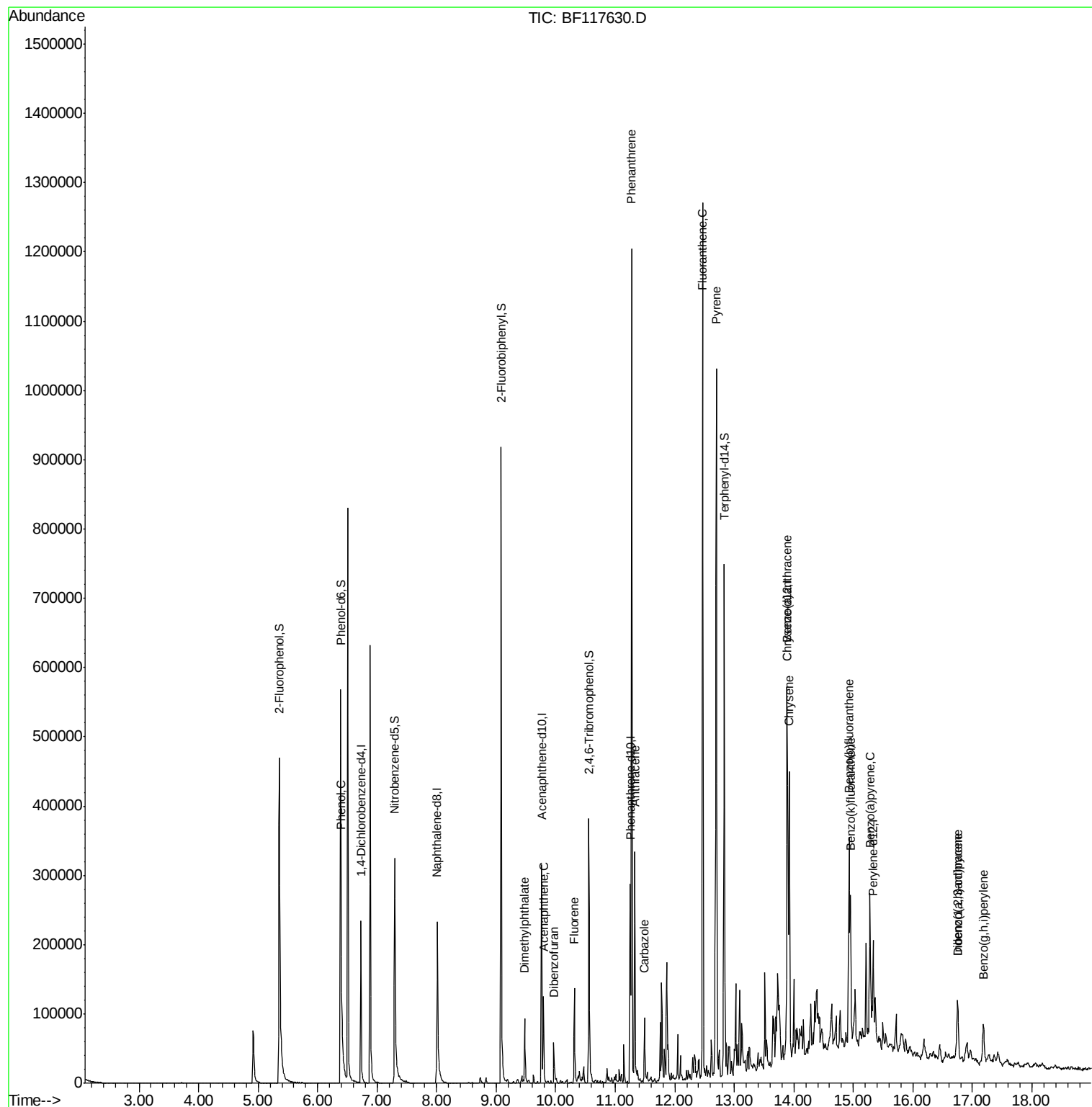
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
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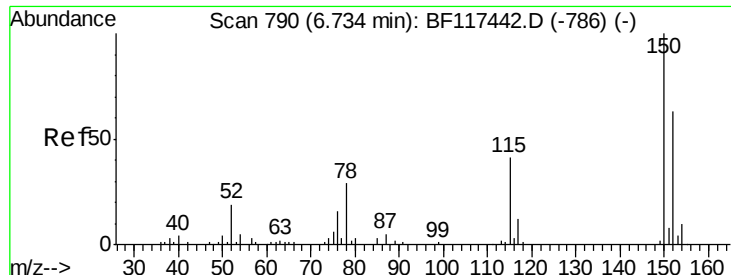
Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

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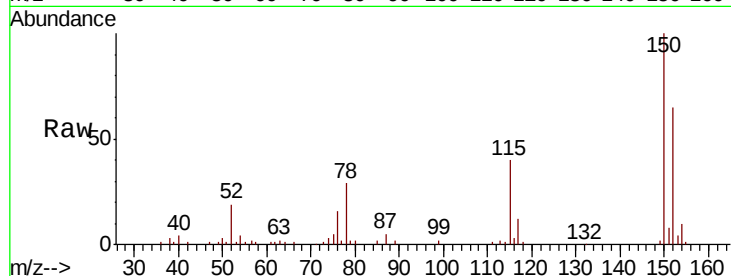
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Instrument :
 BNA_F
 ClientSampleId :
 199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.1	126.8	190.2
115	61.7	51.6	77.4

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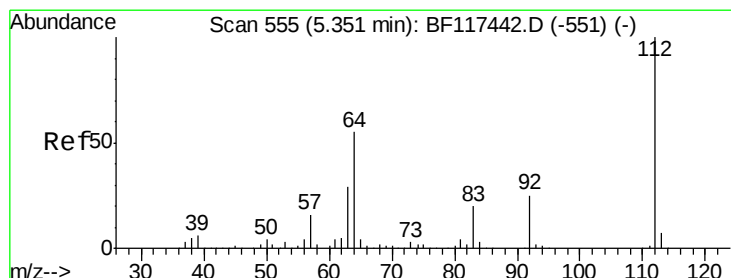
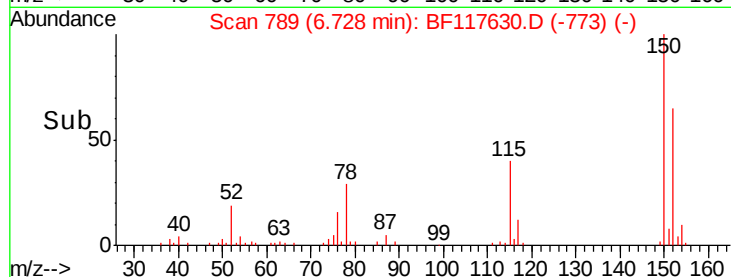
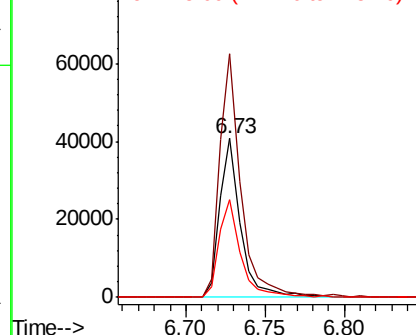


Abundance

Ion 152.00 (151.70 to 152.70): E

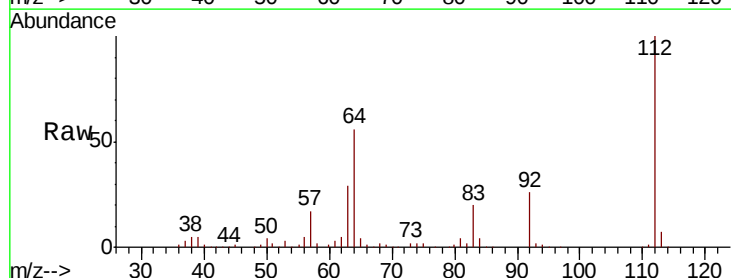
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 82.626 ng
 RT: 5.36 min Scan# 556
 Delta R.T. 0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.1	66.1
63	28.9	23.4	35.2

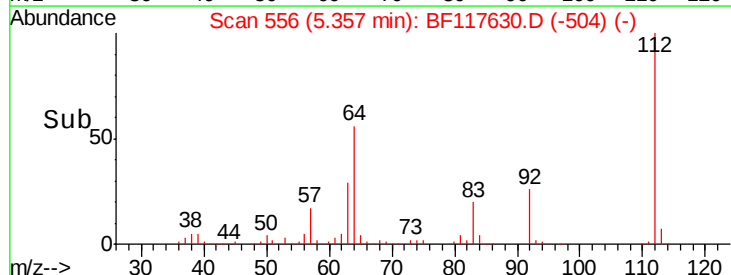
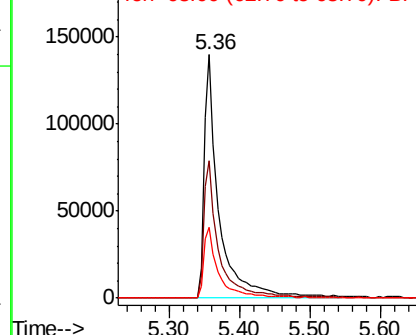


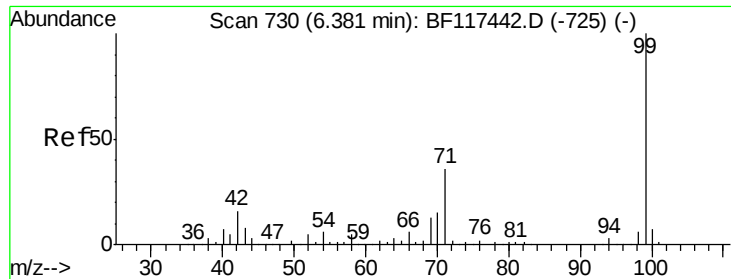
Abundance

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: 85.405 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Instrument :

BNA_F

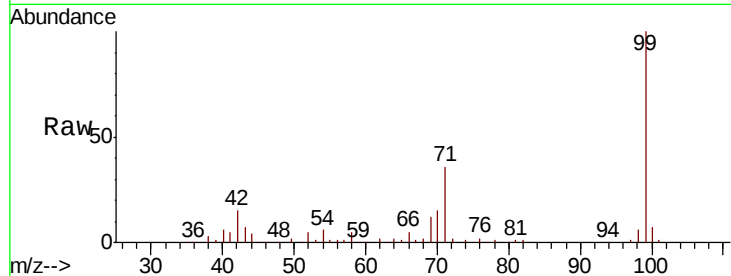
ClientSampleId :

199-48-(0-1.2)

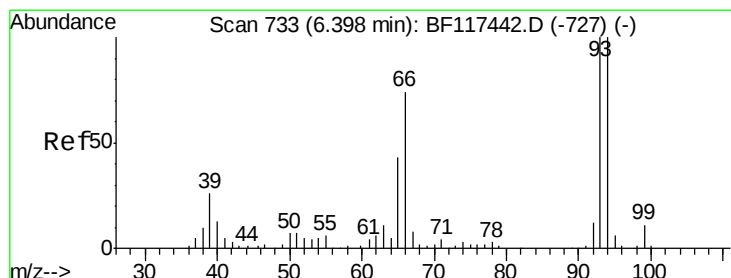
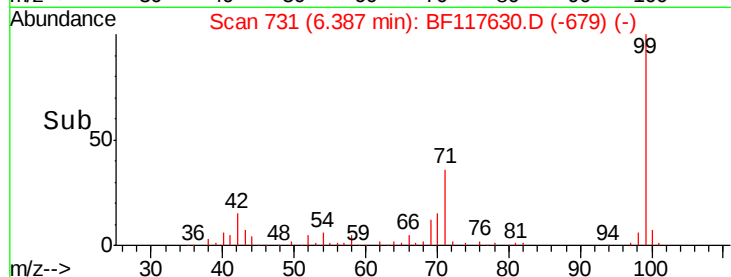
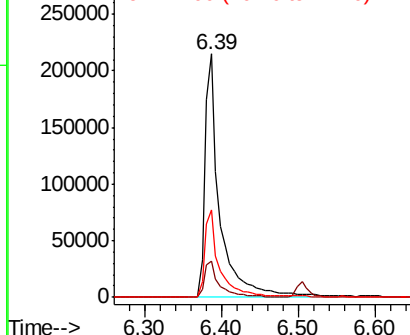
Tot Ion:	99	Resp:	287716
Ion Ratio	Lower	Upper	
99	100		
42	14.8	12.8	19.2
71	36.0	28.6	43.0

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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



#10

Phenol

Concen: 2.292 ng

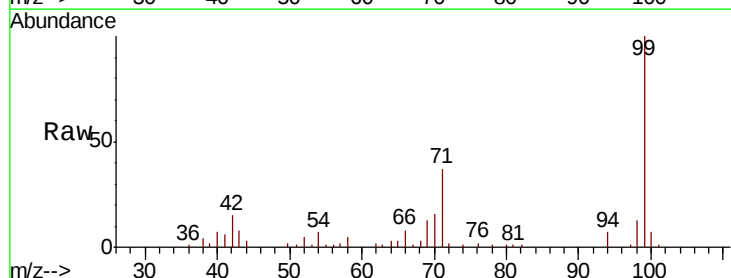
RT: 6.40 min Scan# 733

Delta R.T. 0.00 min

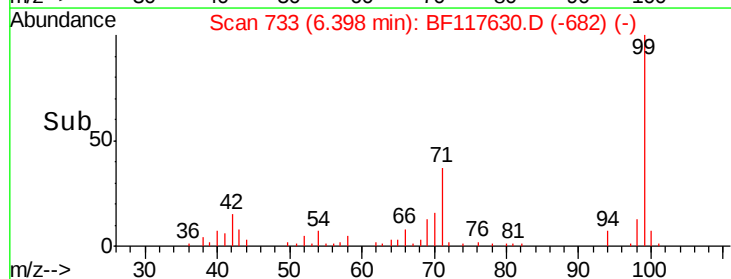
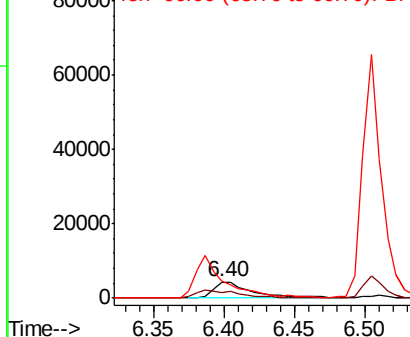
Lab File: BF117630.D

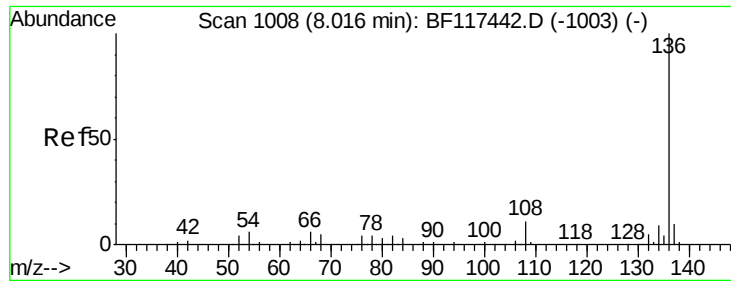
Acq: 30 Oct 2019 17:46

Tgt Ion:	94	Resp:	7879
Ion Ratio	Lower	Upper	
94	100		
65	38.0	23.4	63.4
66	111.4	54.7	94.7#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





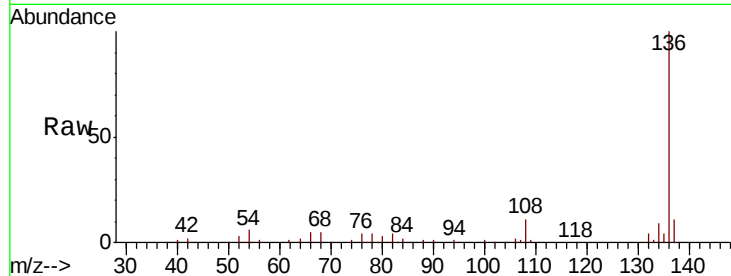
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

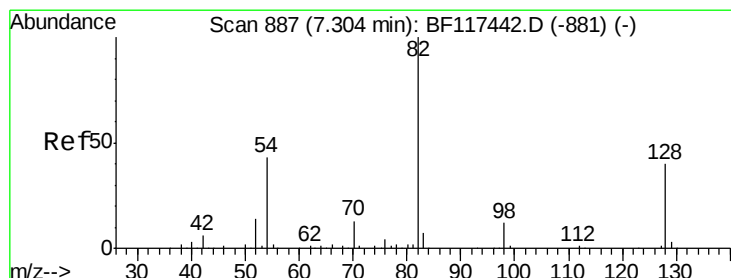
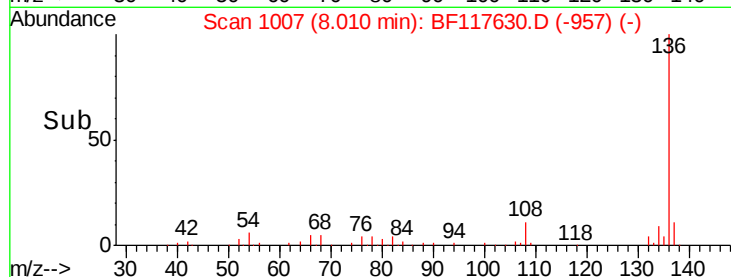
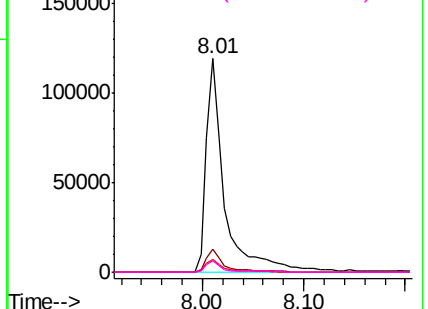
Tot Ion	Ratio	Resp	Lower	Upper
136	100	149851		
137	10.9	8.2	12.4	
54	5.8	4.5	6.7	
68	5.2	4.3	6.5	

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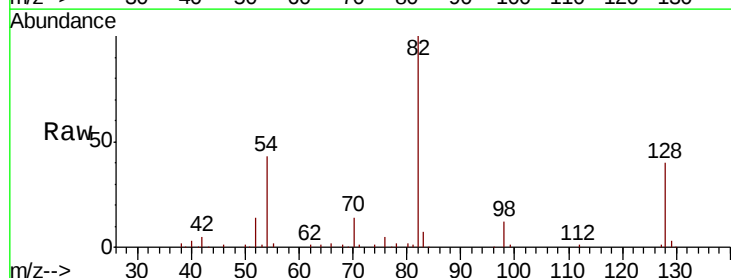


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

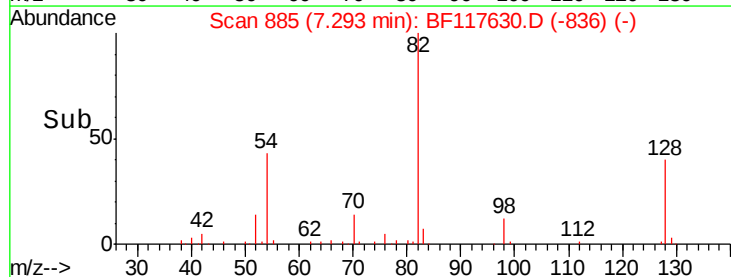
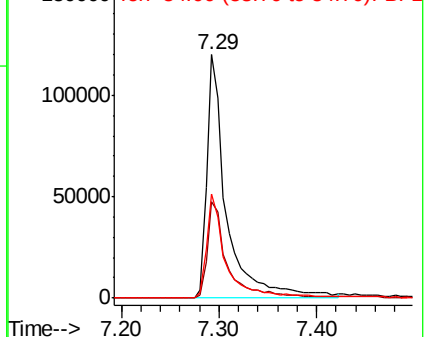


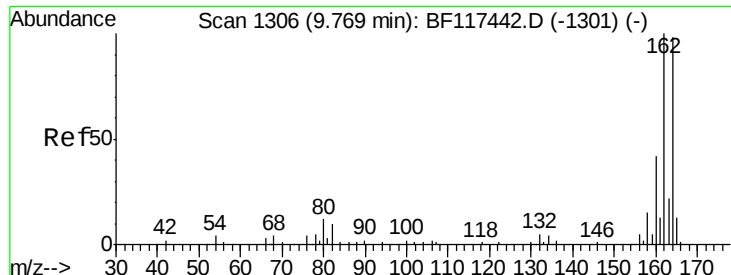
#23
Nitrobenzene-d5
Concen: 55.345 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	167995		
128	39.9	32.2	48.2	
54	42.6	34.2	51.2	



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





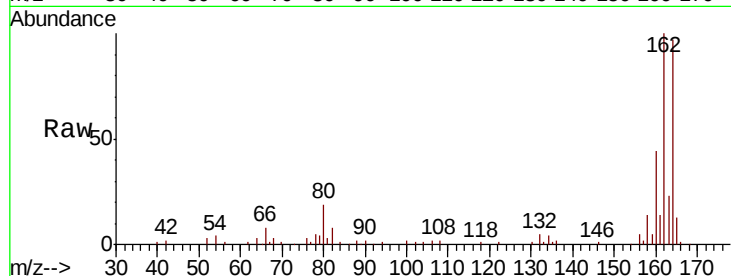
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.3	81.8	122.6
160	45.5	34.4	51.6

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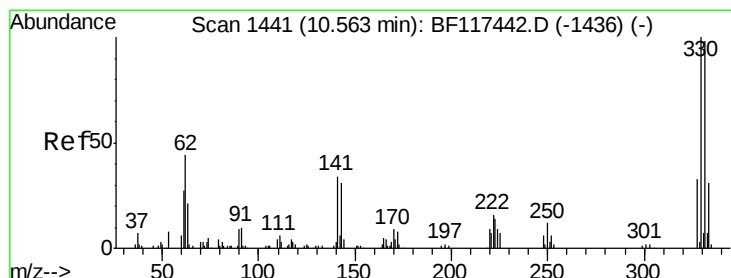
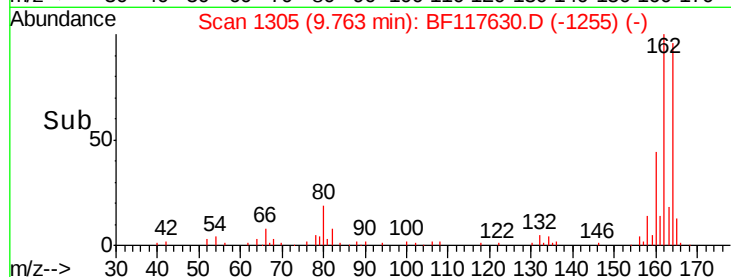
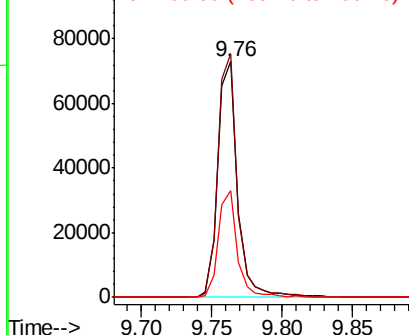


Abundance

Ion 164.00 (163.70 to 164.70): E

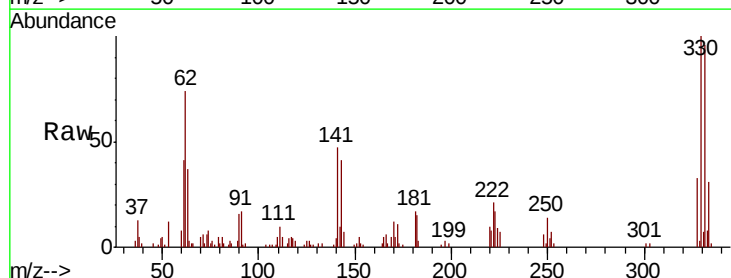
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 72.644 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	78.5	117.7
141	46.1	37.0	55.6

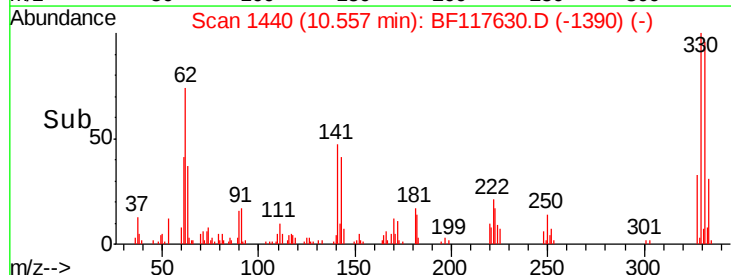
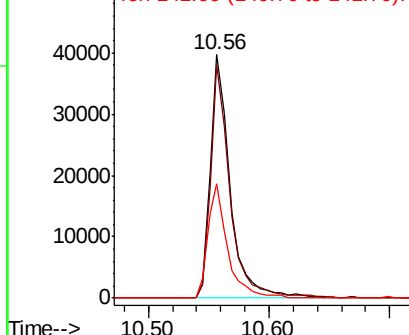


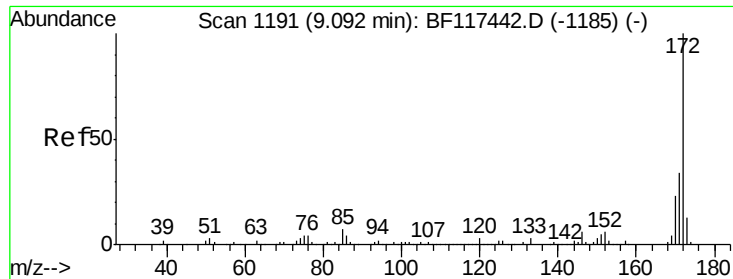
Abundance

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





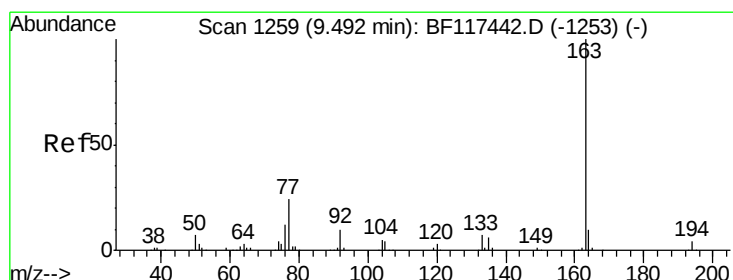
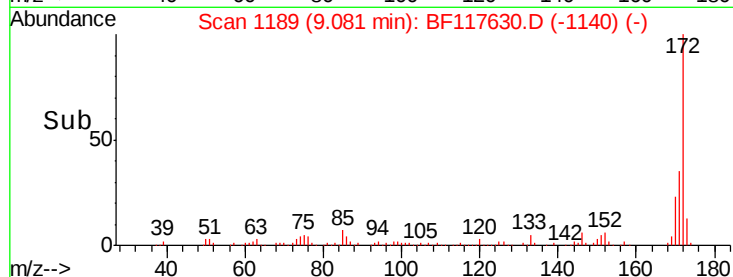
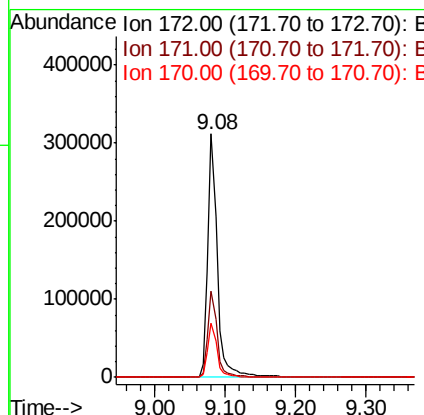
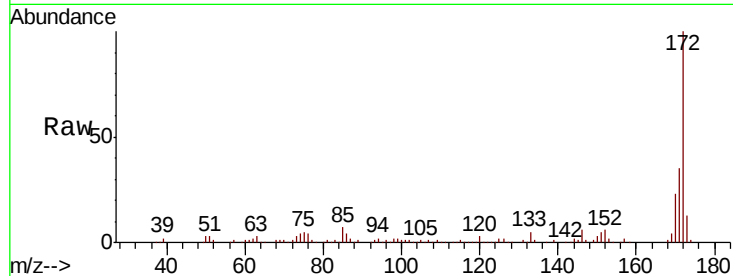
#45
2-Fluorobiphenyl
Concen: 57.699 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	291770		
171	35.2		27.5	41.3
170	22.5		18.6	27.8

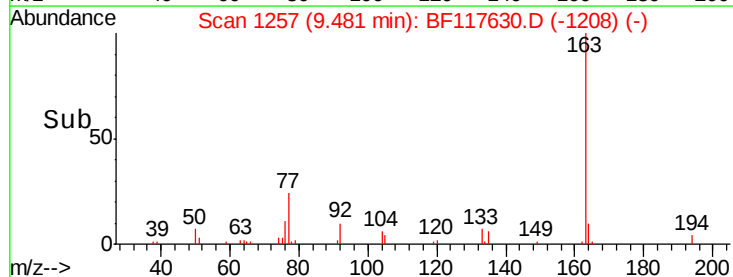
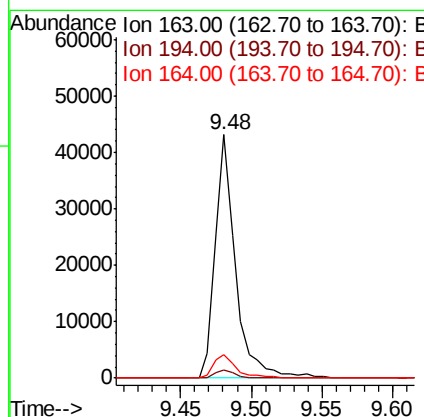
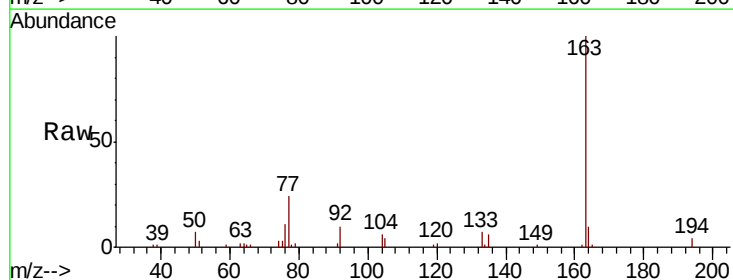
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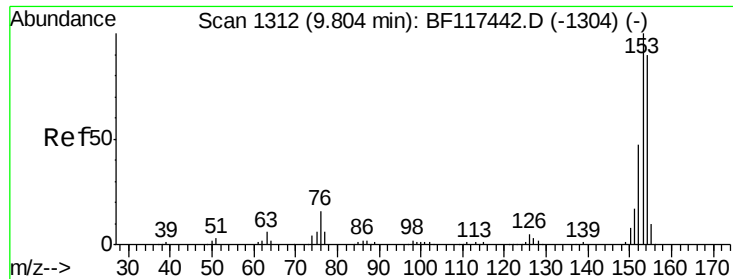
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#50
Dimethylphthalate
Concen: 8.539 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	43372		
194	3.6		2.9	4.3
164	9.7		8.2	12.2





#52

Acenaphthene

Concen: 7.263 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Instrument :

BNA_F

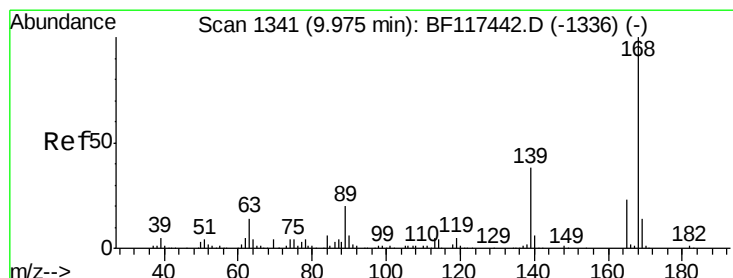
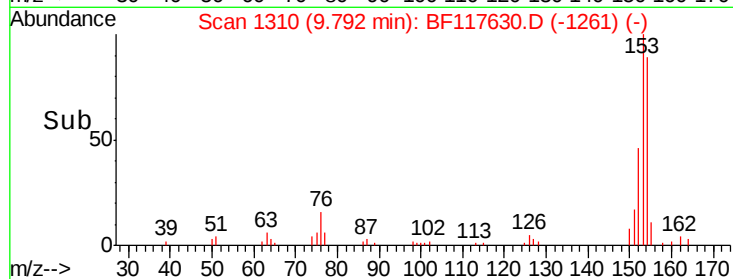
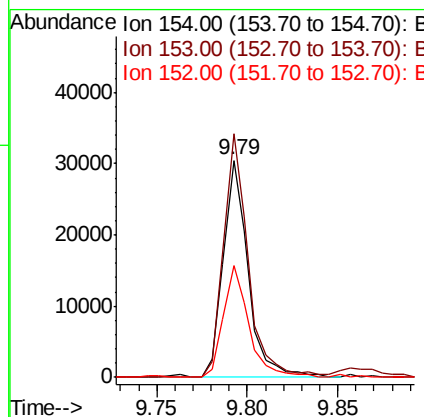
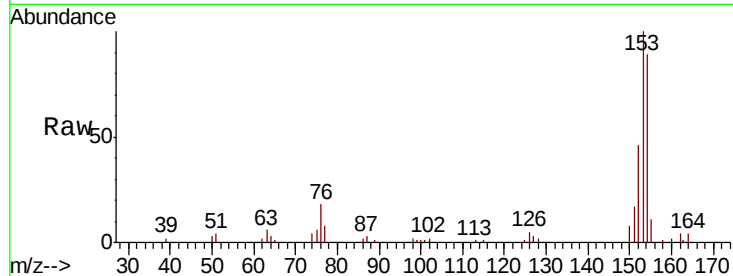
ClientSampleId :

199-48-(0-1.2)

Tot Ion:	154	Resp:	29108
Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.2	133.8
152	51.5	41.8	62.6

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#55

Dibenzofuran

Concen: 5.174 ng

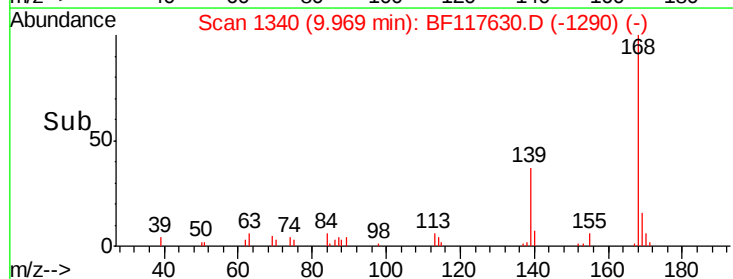
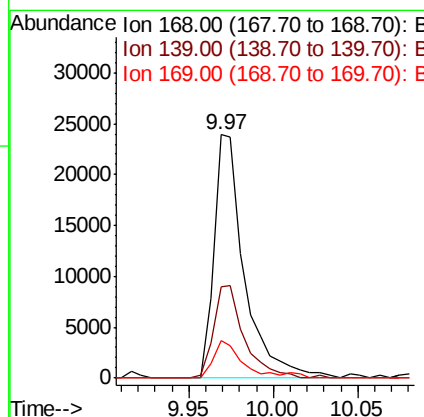
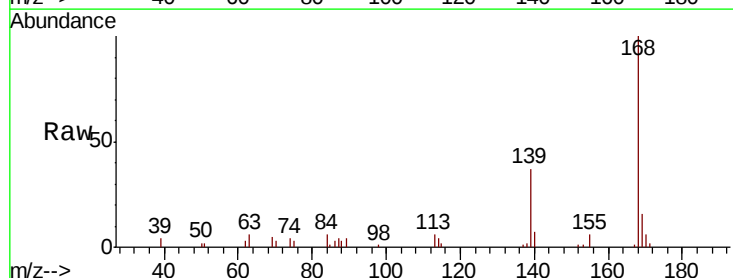
RT: 9.97 min Scan# 1340

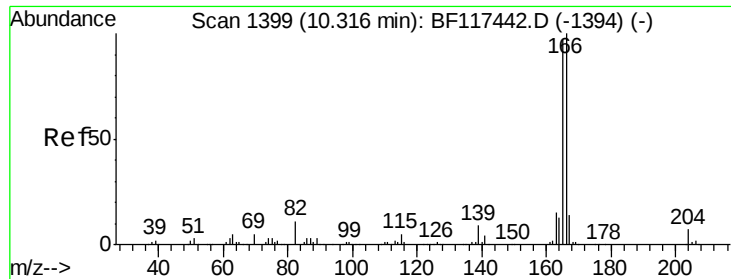
Delta R.T. -0.01 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Tgt Ion:	168	Resp:	30041
Ion	Ratio	Lower	Upper
168	100		
139	37.4	31.8	47.6
169	15.5	11.2	16.8





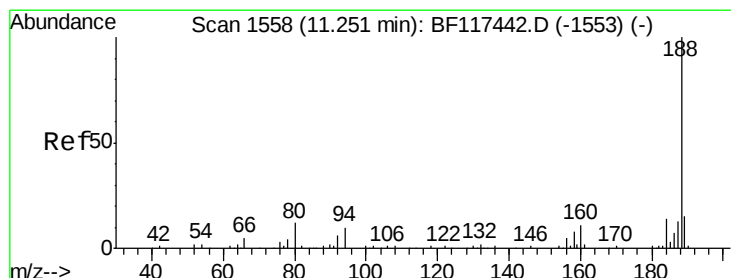
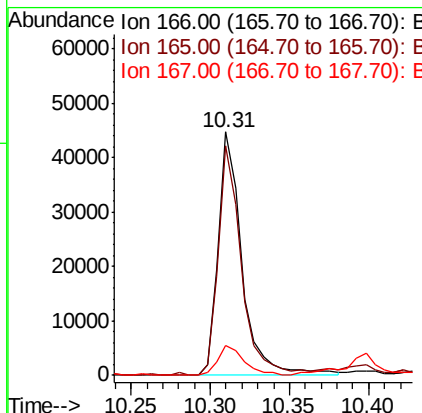
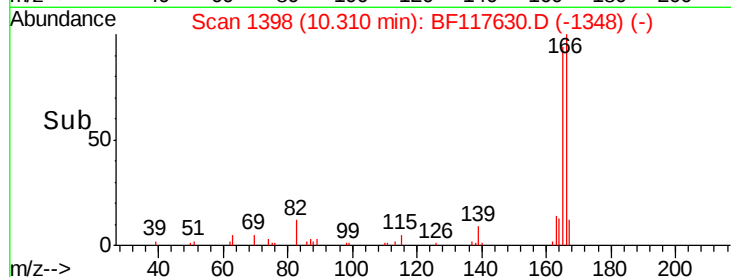
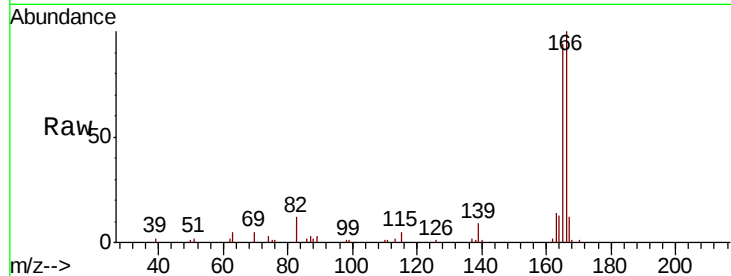
#58
 Fluorene
 Concen: 9.673 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Instrument :
 BNA_F
 ClientSampleId :
 199-48-(0-1.2)

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	94.4	77.6	116.4	
167	12.2	11.0	16.4	

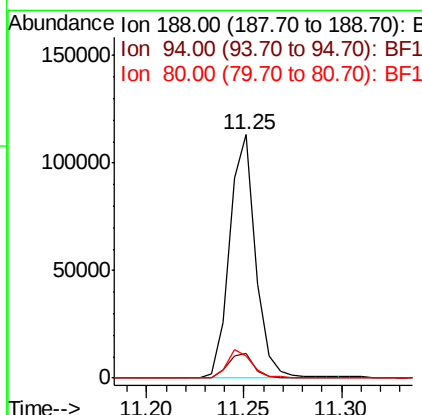
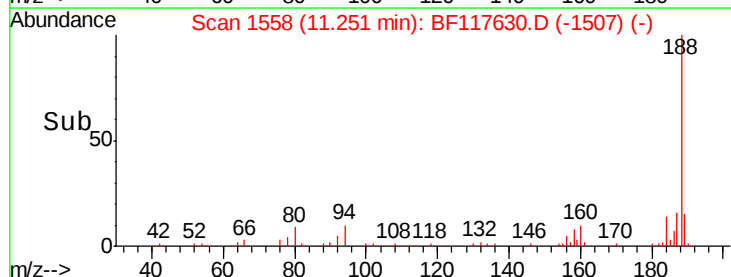
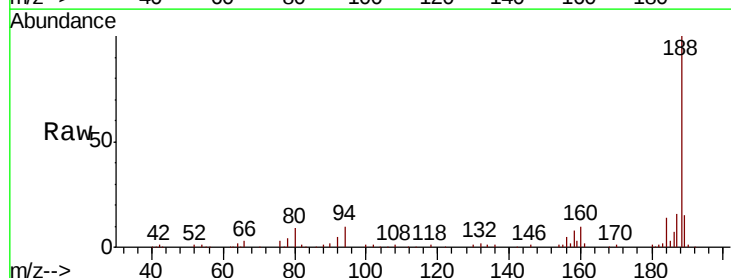
Manual Integrations
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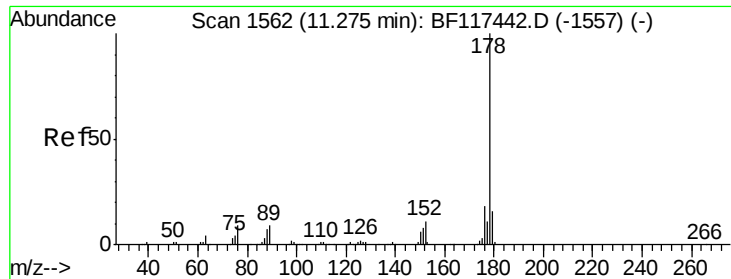
mohammad
 10/31/2019 3:10:53 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	10.0	8.0	12.0	
80	9.3	9.5	14.3	





#71

Phenanthrene

Concen: 73.651 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Instrument :

BNA_F

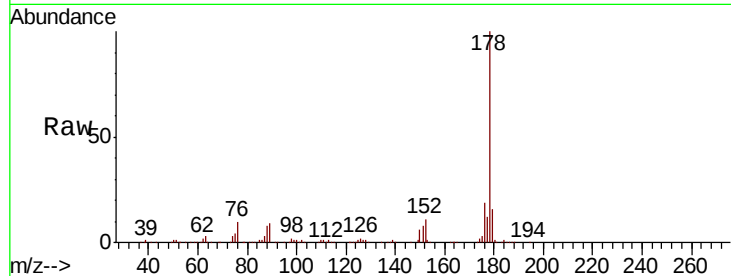
ClientSampleId :

199-48-(0-1.2)

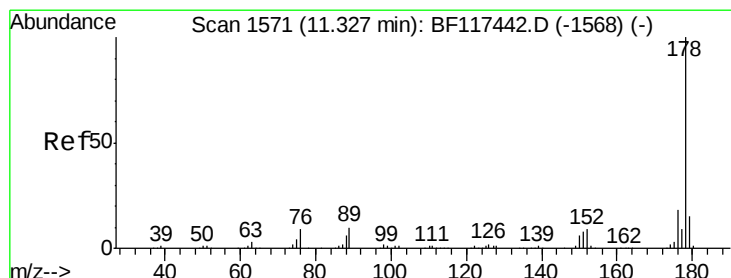
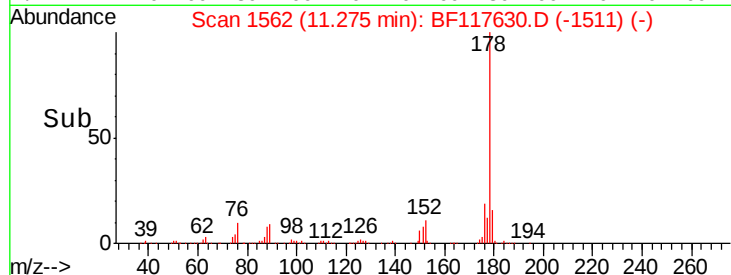
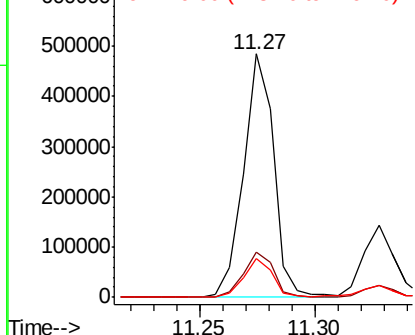
Tot Ion:	178	Resp:	445716
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.6	22.0
179	15.7	12.6	19.0

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 23.469 ng

RT: 11.33 min Scan# 1571

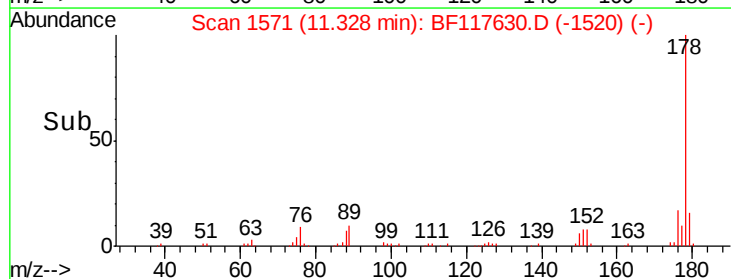
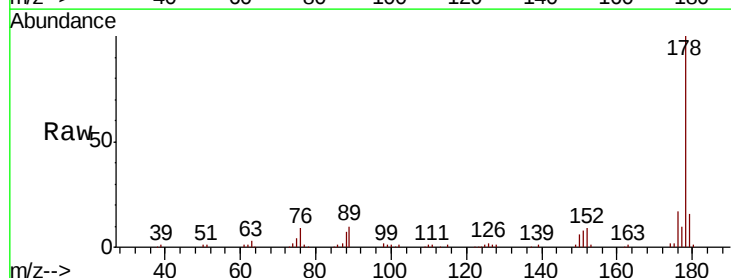
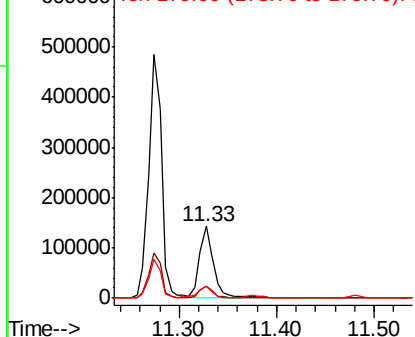
Delta R.T. 0.00 min

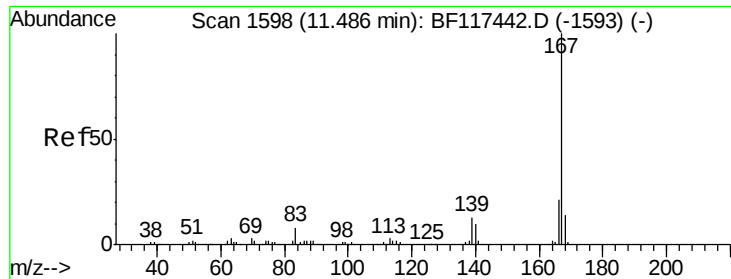
Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Tgt Ion:	178	Resp:	145729
Ion Ratio	Lower	Upper	
178	100		
176	17.3	14.7	22.1
179	16.1	12.2	18.2

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





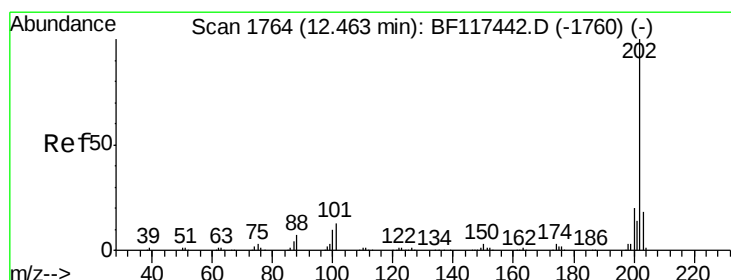
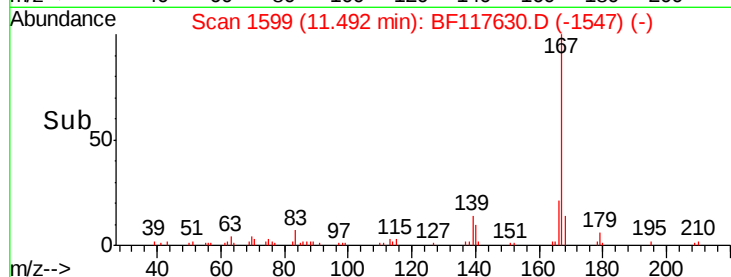
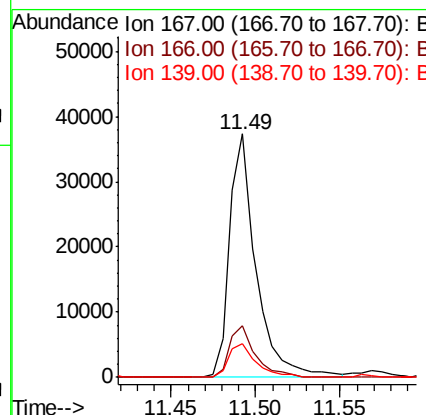
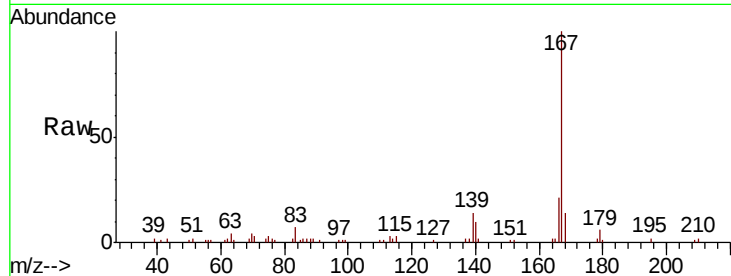
#73
 Carbazole
 Concen: 7.187 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Instrument :
 BNA_F
 ClientSampleId :
 199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	14.1	10.6	16.0

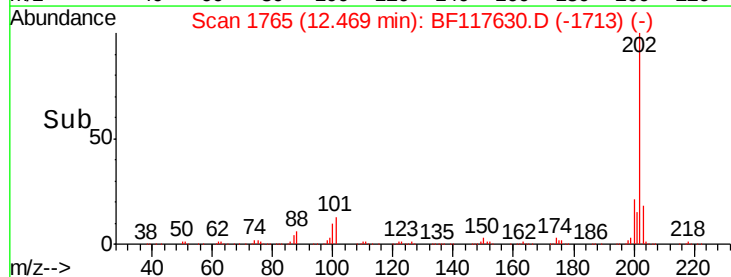
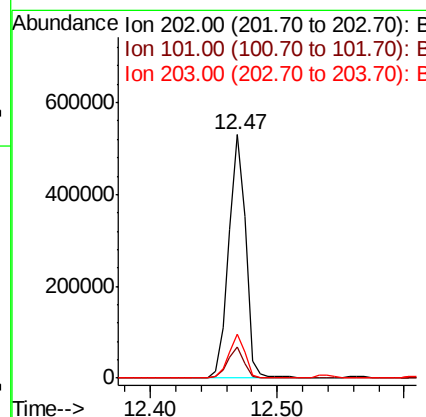
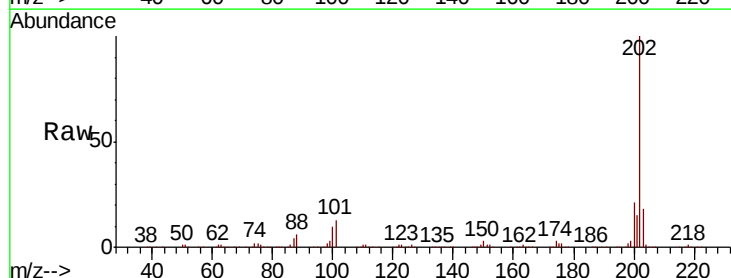
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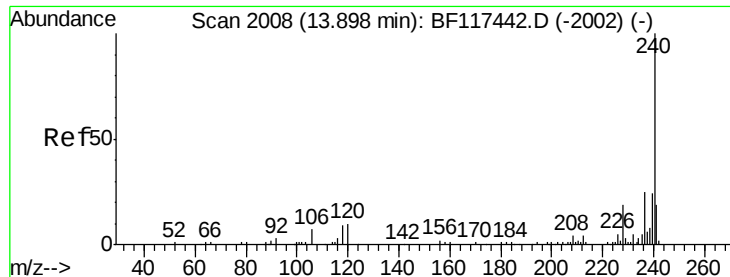
mohammad
 10/31/2019 3:10:53 PM



#75
 Fluoranthene
 Concen: 81.831 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	32.7
203	18.0	0.0	37.6





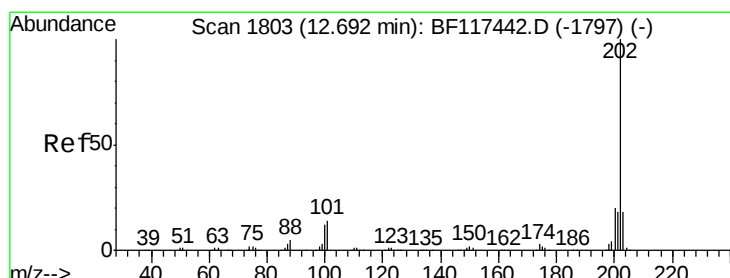
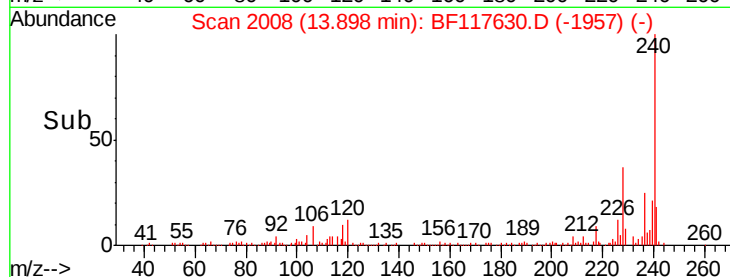
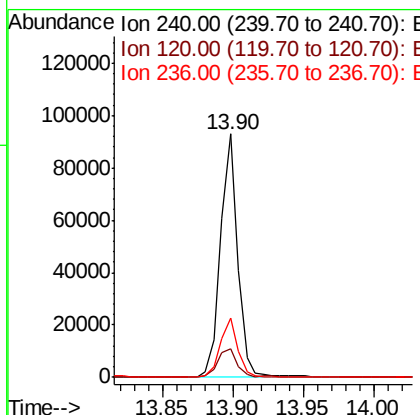
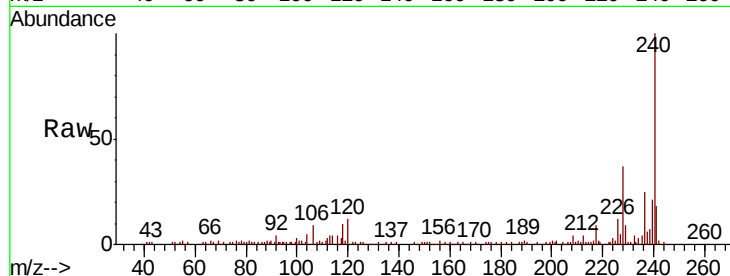
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.00 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.4	12.6
236	24.5	20.0	30.0

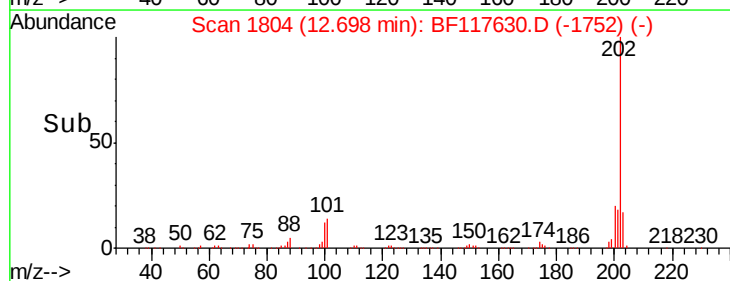
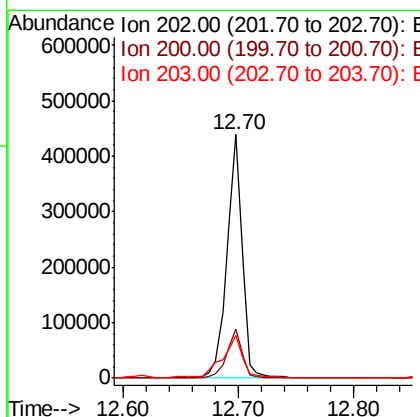
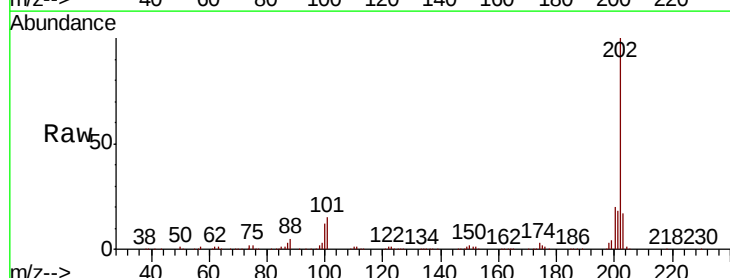
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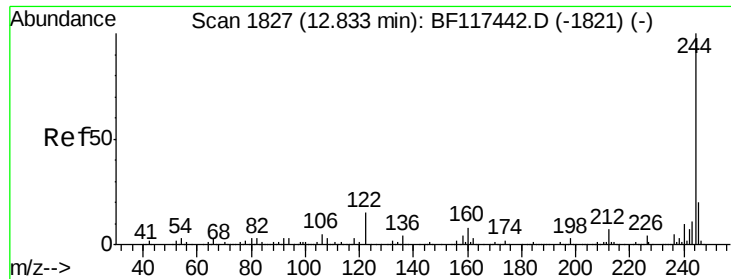
mohammad
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#78
Pyrene
Concen: 58.333 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.2	24.2
203	17.3	14.0	21.0





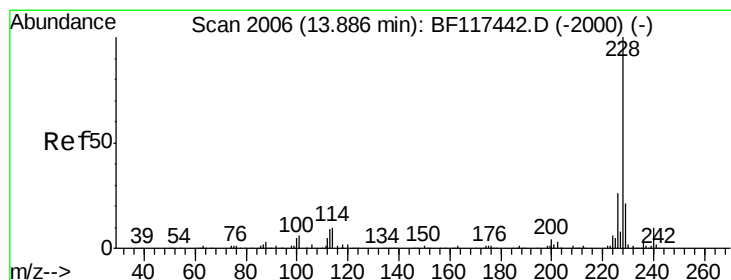
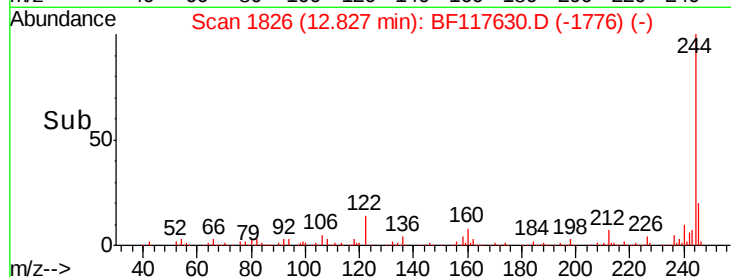
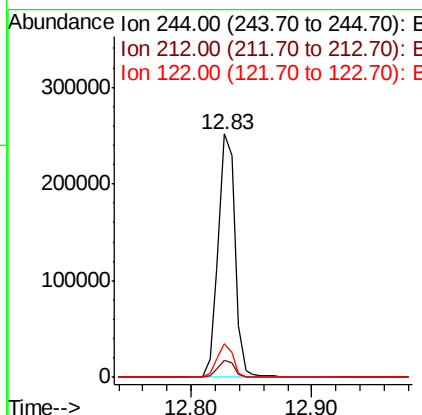
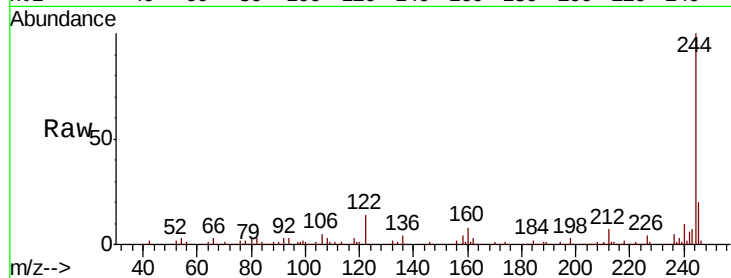
#79
 Terphenyl-d14
 Concen: 49.527 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Instrument :
 BNA_F
 ClientSampleId :
 199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.6
122	13.9	11.8	17.8

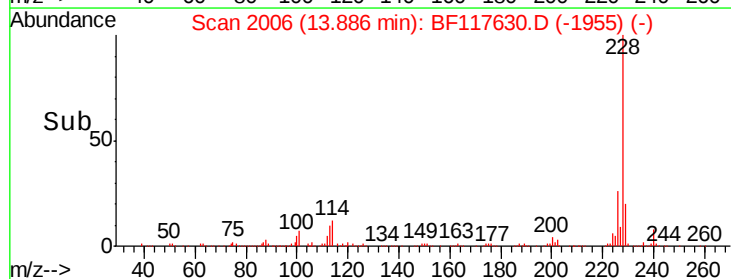
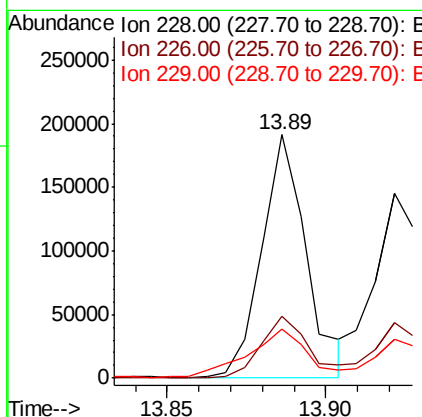
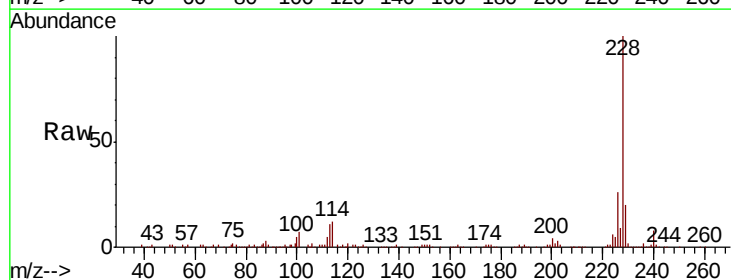
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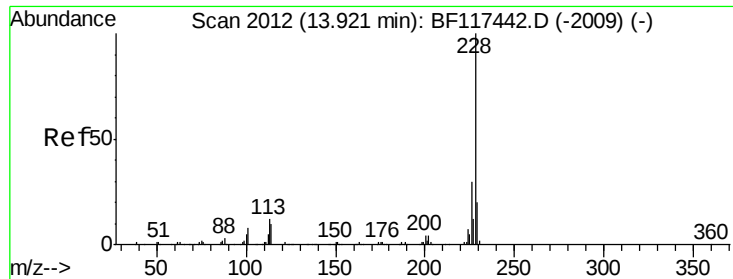
mohammad
 10/31/2019 3:10:53 PM



#81
 Benzo(a)anthracene
 Concen: 34.600 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.00 min
 Lab File: BF117630.D
 Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.6	21.0	31.4
229	20.1	16.4	24.6





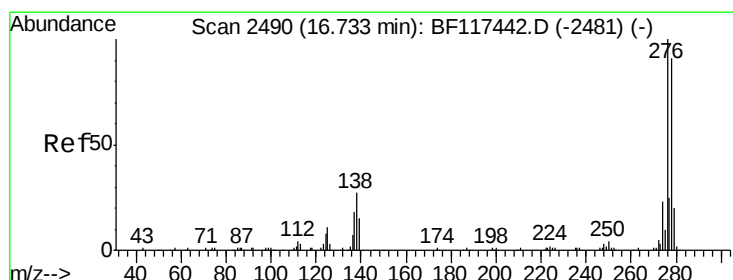
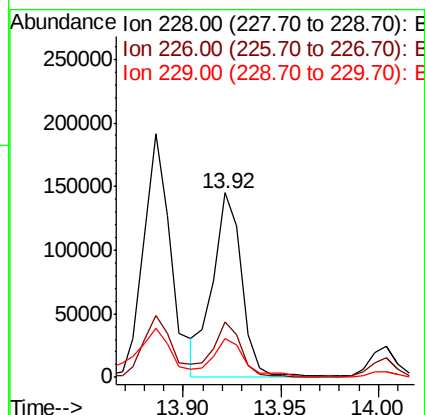
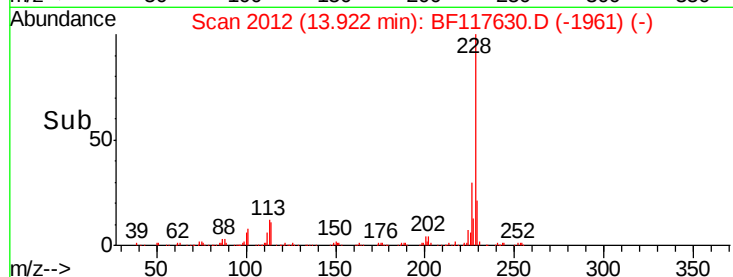
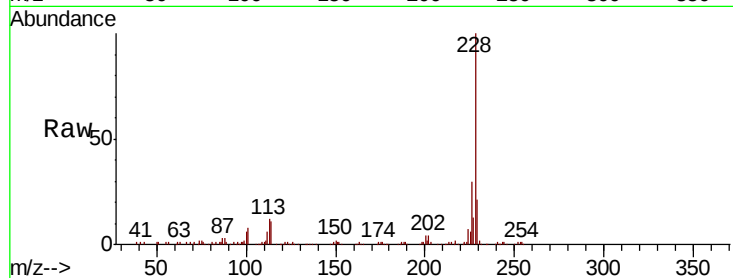
#83
Chrysene
Concen: 28.412 ng
RT: 13.92 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	21.1	15.8	23.6

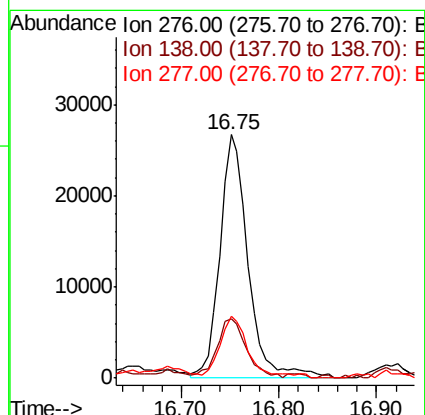
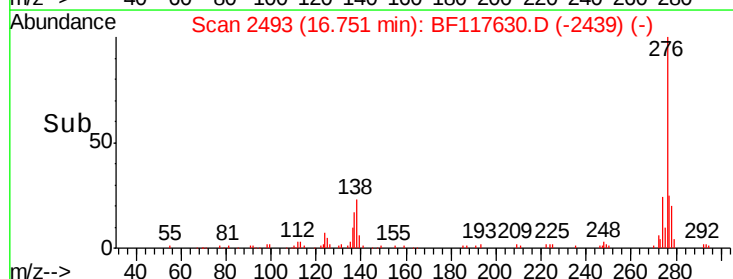
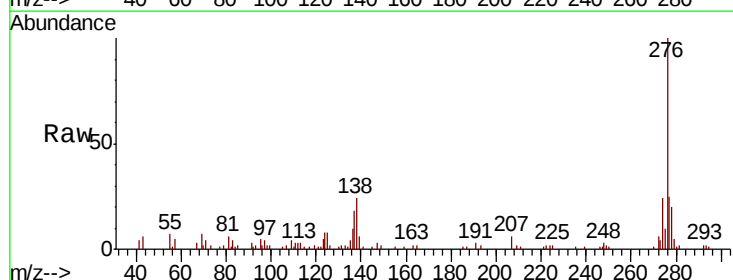
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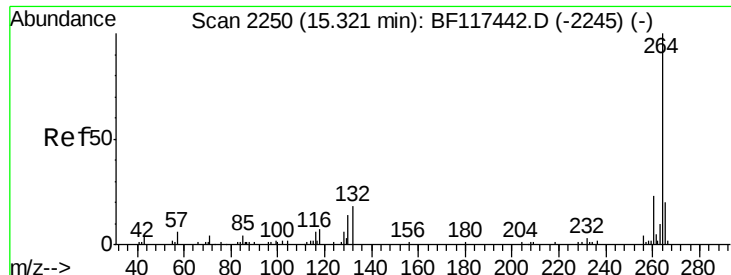
mohammad
10/31/2019 3:10:53 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 13.620 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.02 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.5	21.8	32.8
277	21.4	20.0	30.0





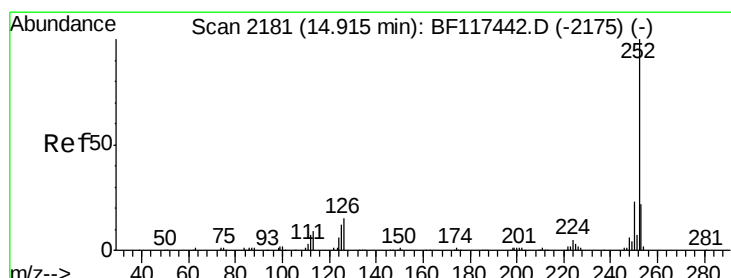
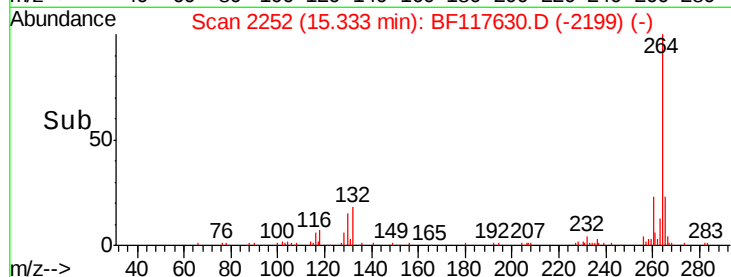
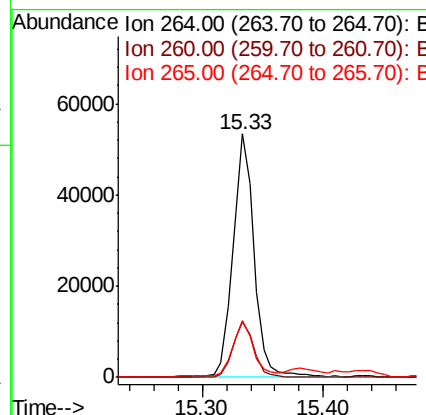
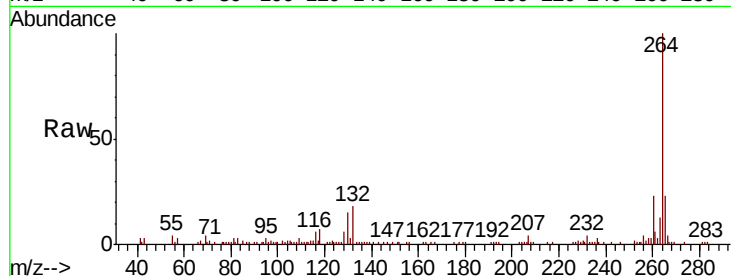
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	23.3	16.1	24.1

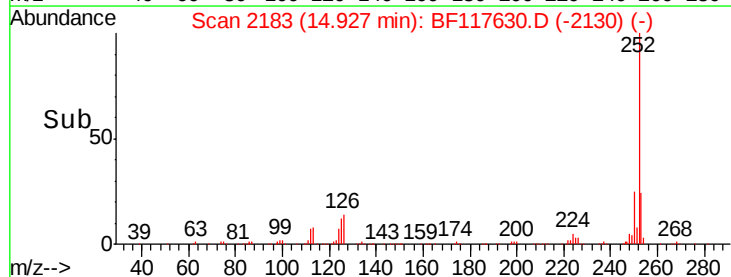
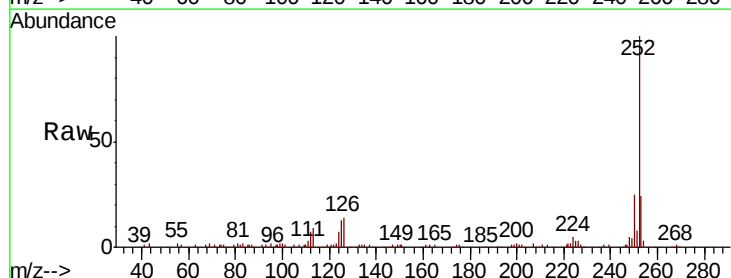
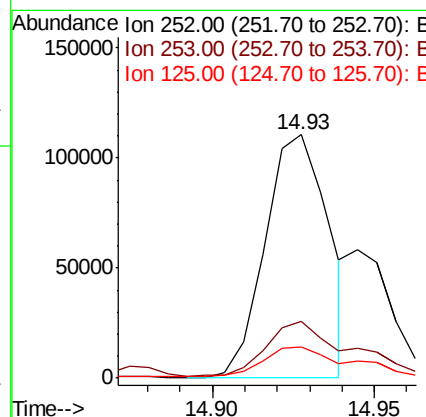
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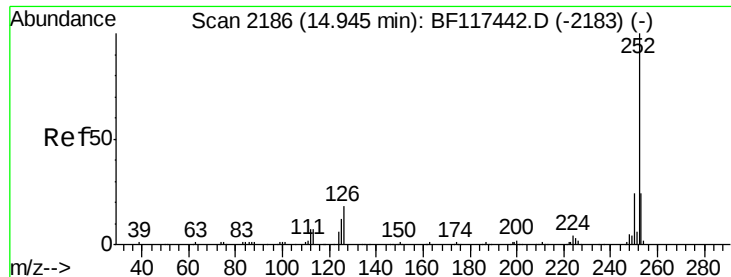
mohammad
10/31/2019 3:10:53 PM



#88
Benzo(b)fluoranthene
Concen: 39.349 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	12.9	9.9	14.9





#89

Benzo(k)fluoranthene

Concen: 13.825 ng m

RT: 14.94 min Scan# 2186

Delta R.T. 0.00 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Instrument :

BNA_F

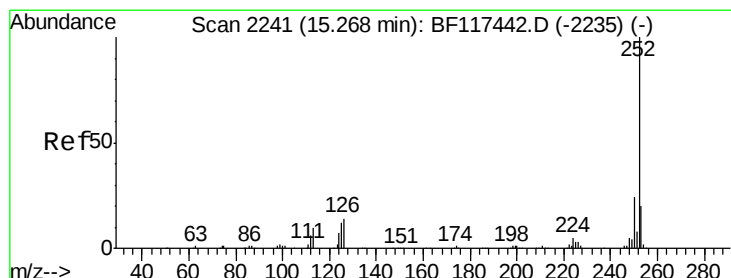
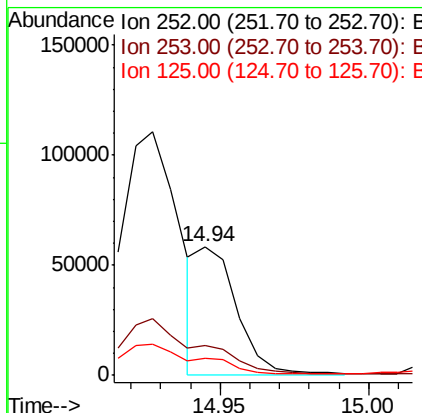
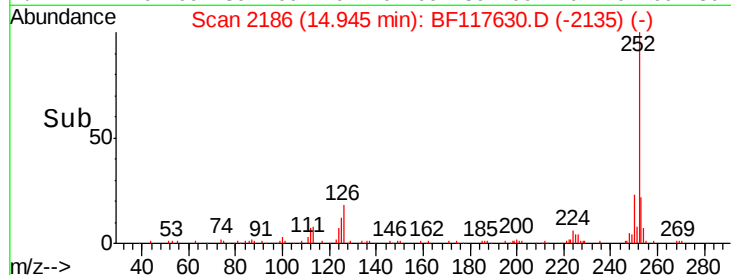
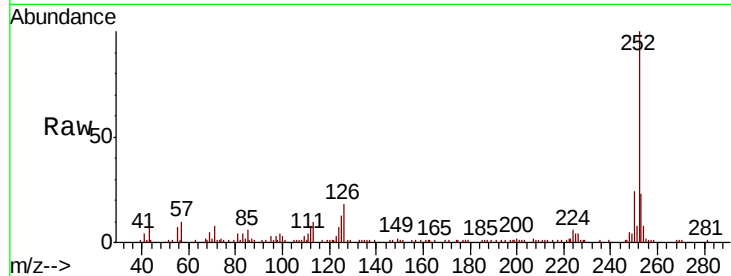
ClientSampleId :

199-48-(0-1.2)

Tot Ion:	252	Resp:	54478
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.0	27.0
125	13.2	8.9	13.3

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#90

Benzo(a)pyrene

Concen: 29.355 ng

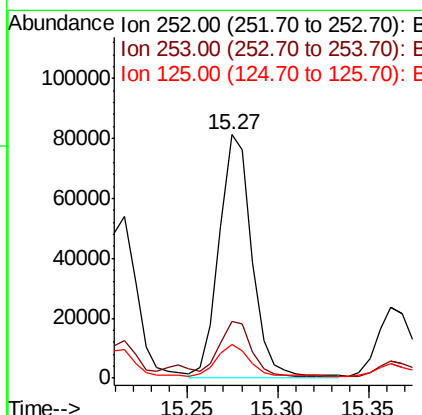
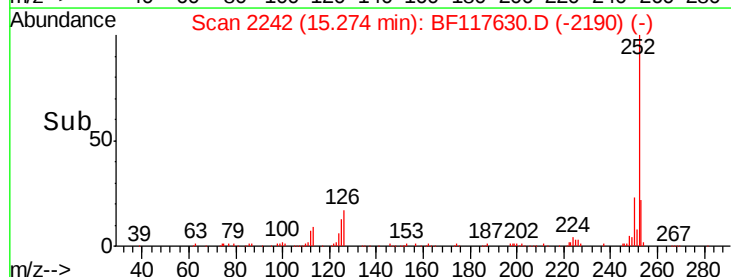
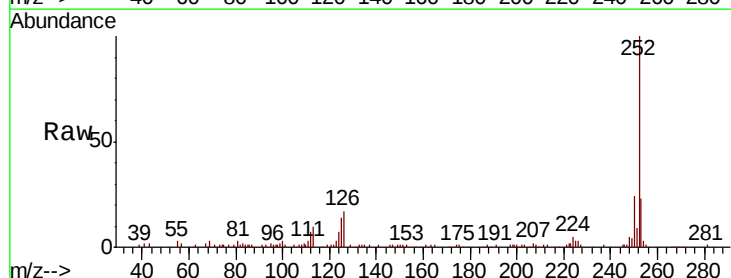
RT: 15.27 min Scan# 2242

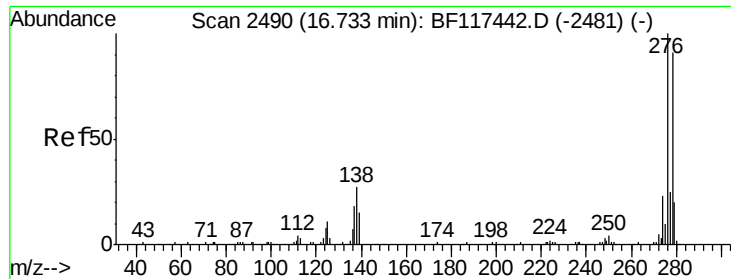
Delta R.T. 0.01 min

Lab File: BF117630.D

Acq: 30 Oct 2019 17:46

Tgt Ion:	252	Resp:	102609
Ion Ratio	Lower	Upper	
252	100		
253	23.3	16.3	24.5
125	13.8	9.2	13.8#





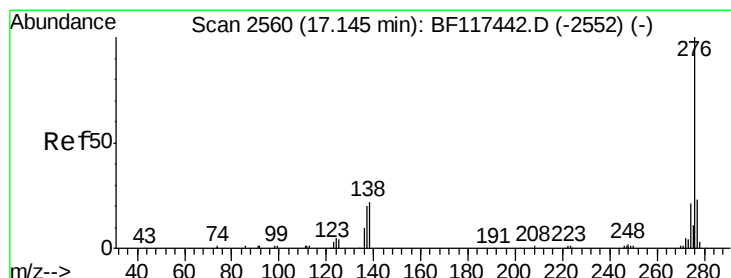
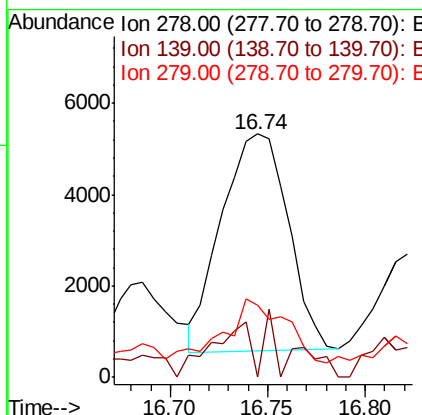
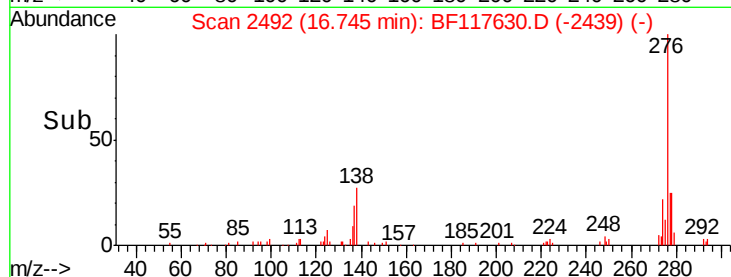
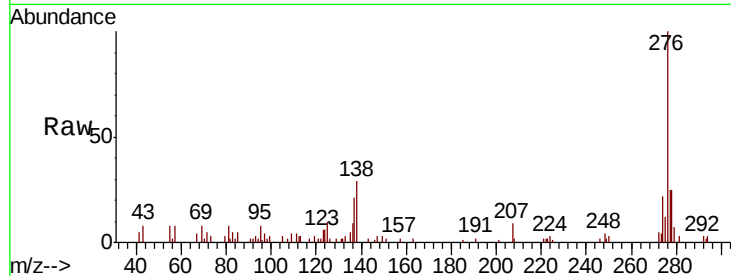
#91
Dibenzo(a,h)anthracene
Concen: 3.715 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Instrument :
BNA_F
ClientSampleId :
199-48-(0-1.2)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.4	20.0#
279	29.4	17.8	26.6#

Manual Integrations
APPROVED

mohammad
10/31/2019 3:10:53 PM



#92
Benzo(g,h,i)perylene
Concen: 16.345 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF117630.D
Acq: 30 Oct 2019 17:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.4	27.6
138	26.0	17.8	26.6

