

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022020\
 Data File : BF118981.D
 Acq On : 21 Feb 2020 1:59
 Operator : CG/JU
 Sample : L1468-05DL 50X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Manual Integrations
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Quant Time: Feb 21 10:11:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 20 17:40:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	204837	20.00	ng	0.00
21) Naphthalene-d8	8.04	136	792744	20.00	ng	0.00
39) Acenaphthene-d10	9.79	164	400020	20.00	ng	0.00
64) Phenanthrene-d10	11.27	188	642384	20.00	ng	0.00
76) Chrysene-d12	13.91	240	521381	20.00	ng	0.00
87) Perylene-d12	15.33	264	523020	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	19918	1.63	ng	0.00
7) Phenol-d6	6.40	99	25682	1.72	ng	0.00
23) Nitrobenzene-d5	7.32	82	15540	1.04	ng	-0.01
42) 2,4,6-Tribromophenol	10.57	330	6477	1.24	ng	0.00
45) 2-Fluorobiphenyl	9.11	172	38222	1.41	ng	-0.01
79) Terphenyl-d14	12.85	244	37919	1.25	ng	0.00

Target Compounds					Qvalue	
31) Naphthalene	8.07	128	2290074	55.702	ng	99
37) 2-Methylnaphthalene	8.75	142	410469	14.836	ng	99
38) 1-Methylnaphthalene	8.85	142	232101	8.920	ng	99
46) 1,1'-Biphenyl	9.22	154	104327	3.227	ng	99
49) Acenaphthylene	9.65	152	174240	4.631	ng	98
52) Acenaphthene	9.82	154	206967	9.122	ng	100
55) Dibenzofuran	9.99	168	329926	9.742	ng	97
58) Fluorene	10.34	166	423865	16.107	ng	99
71) Phenanthrene	11.30	178	1630983	46.556	ng	99
72) Anthracene	11.35	178	554632	15.845	ng	98
73) Carbazole	11.50	167	200082	6.416	ng	98
75) Fluoranthene	12.49	202	1129335	30.370	ng	99
78) Pvrene	12.72	202	959333	22.914	ng	99
81) Benzo(a)anthracene	13.90	228	487121m	13.712	ng	
83) Chrysene	13.93	228	399498	11.286	ng	98
86) Indeno(1,2,3-cd)pyrene	16.73	276	164297m	4.794	ng	
88) Benzo(b)fluoranthene	14.93	252	462831m	13.425	ng	
89) Benzo(k)fluoranthene	14.95	252	122735m	3.842	ng	
90) Benzo(a)pvrene	15.27	252	353250	11.353	ng	98
92) Benzo(a,h,i)perylene	17.15	276	150694	5.571	ng	99

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

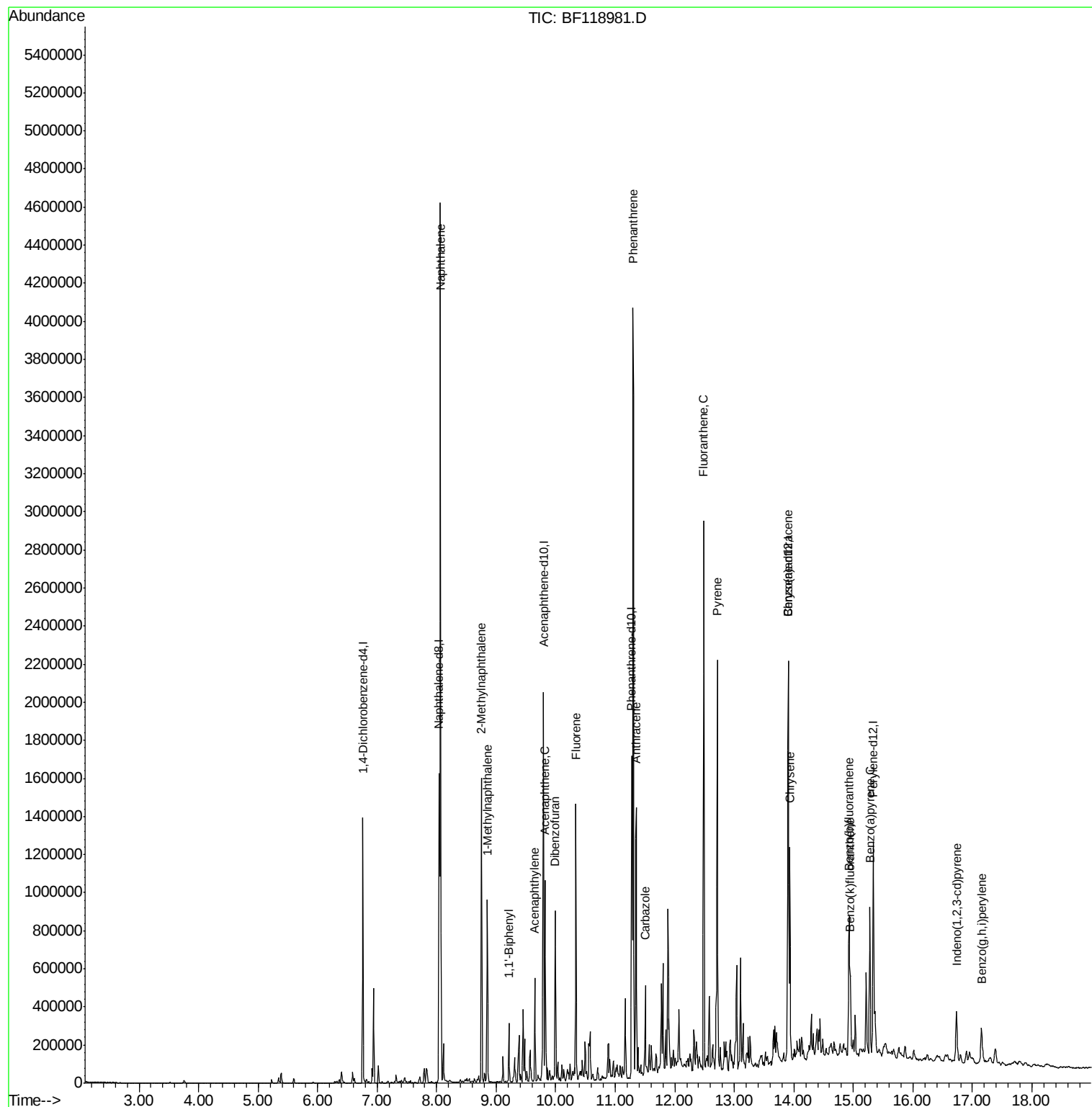
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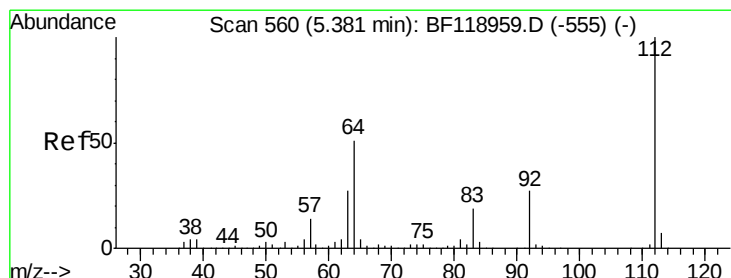
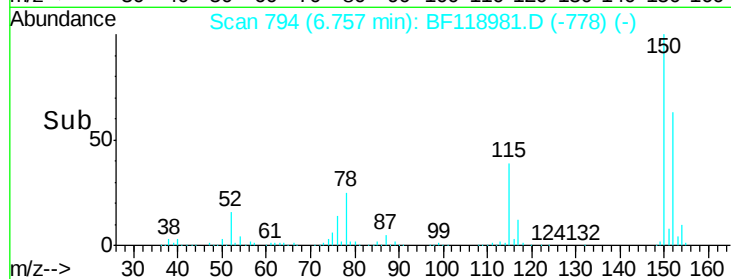
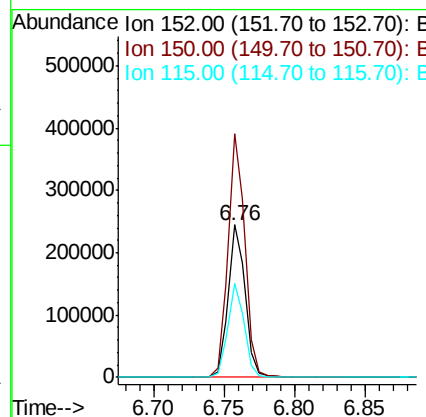
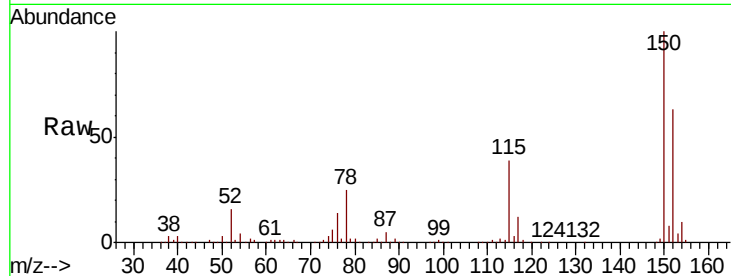
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.76 min Scan# 794
 Delta R.T. -0.01 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	124.3	186.5
115	61.9	44.6	67.0

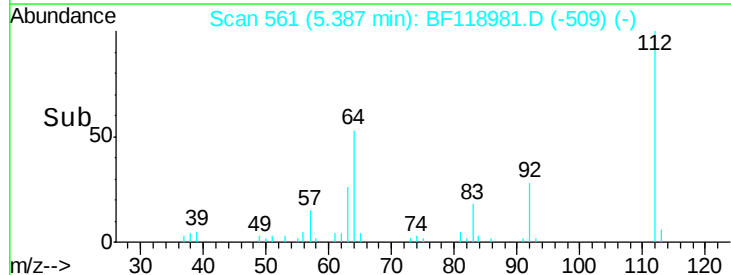
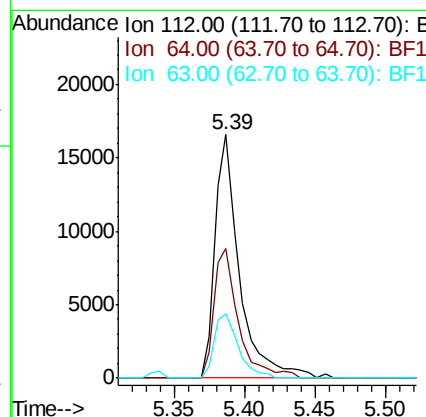
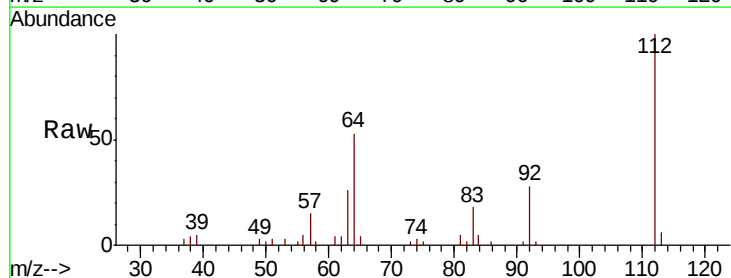
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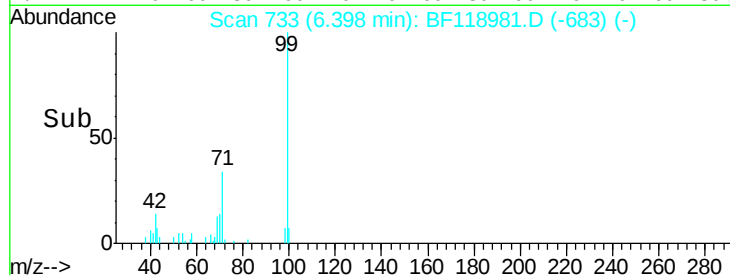
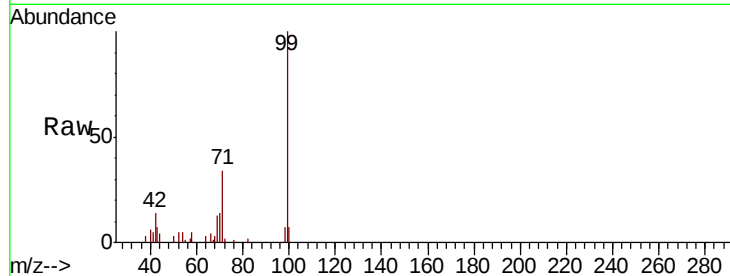
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#5
 2-Fluorophenol
 Concen: 1.625 ng
 RT: 5.39 min Scan# 561
 Delta R.T. 0.01 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	40.4	60.6
63	26.5	21.3	31.9





#7

Phenol-d6

Concen: 1.723 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		25682		
42	14.2	11.4	17.0		
71	33.8	29.8	44.6		

Instrument :

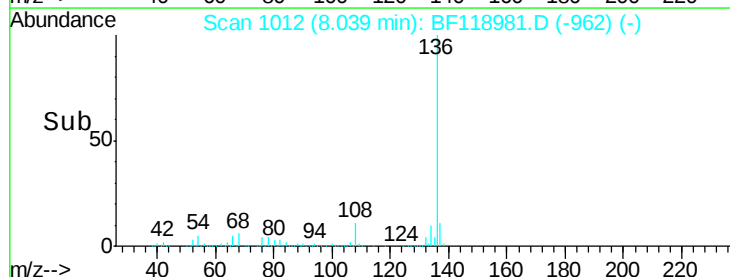
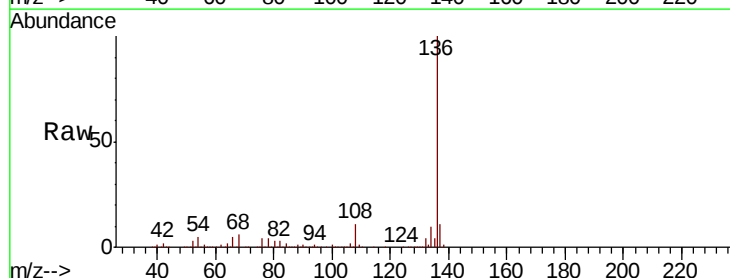
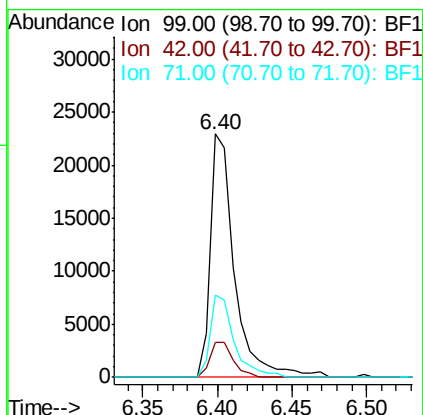
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

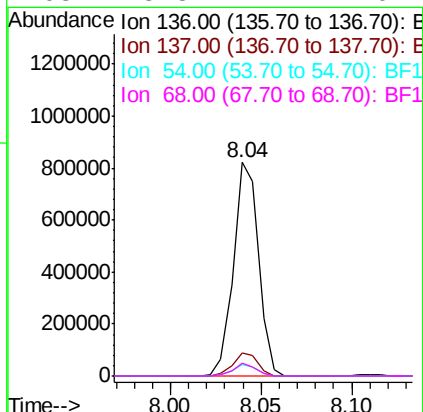
RT: 8.04 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		792744		
137	11.1	8.9	13.3		
54	5.2	3.8	5.6		
68	5.8	4.2	6.2		





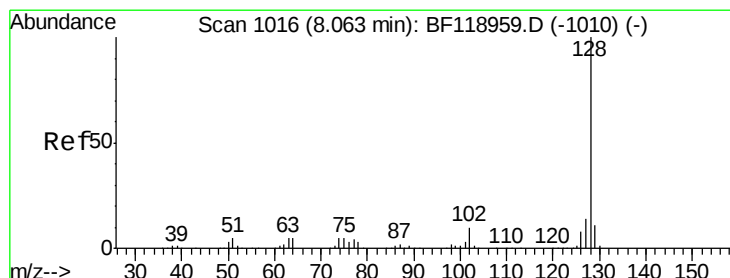
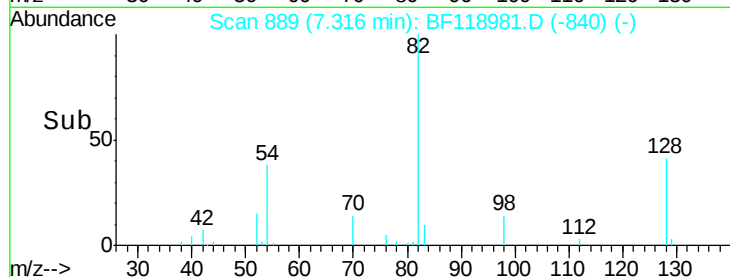
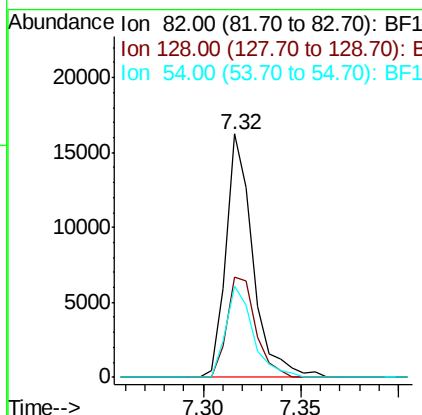
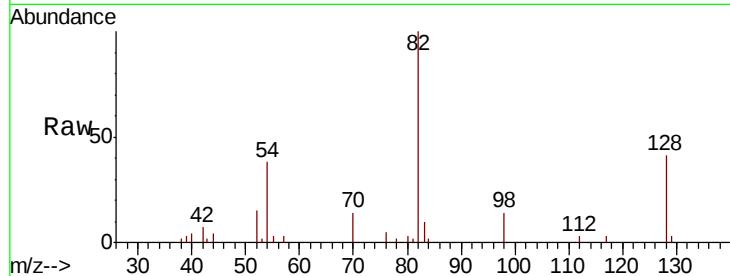
#23
 Nitrobenzene-d5
 Concen: 1.035 ng
 RT: 7.32 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion:	82	Resp:	15540
Ion Ratio	Lower	Upper	
82	100		
128	41.2	38.2	57.2
54	37.7	31.3	46.9

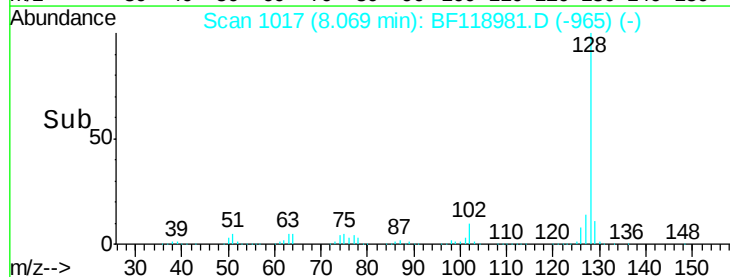
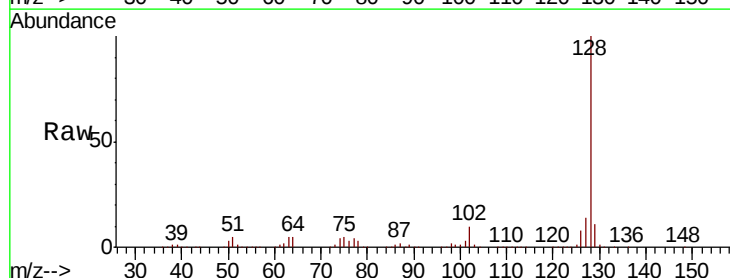
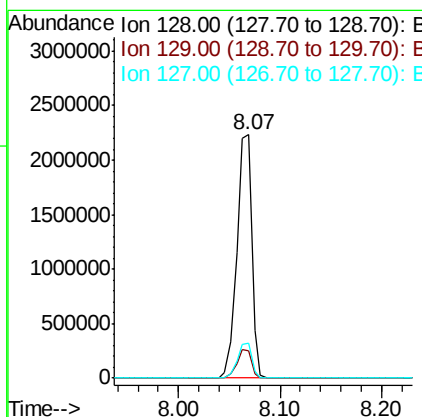
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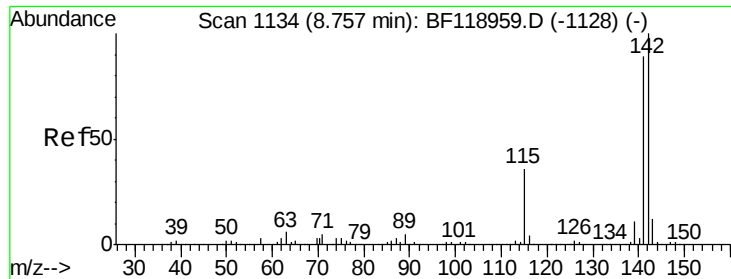
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#31
 Naphthalene
 Concen: 55.702 ng
 RT: 8.07 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Tgt Ion:	128	Resp:	2290074
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.0	13.4
127	14.4	10.9	16.3





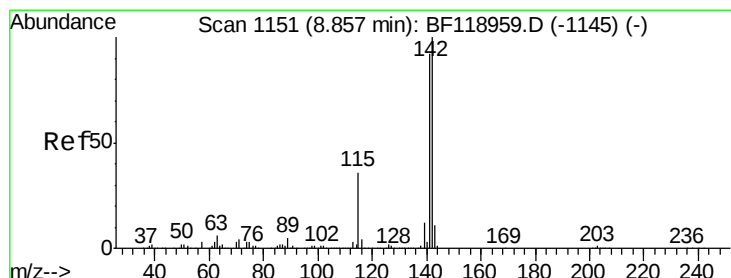
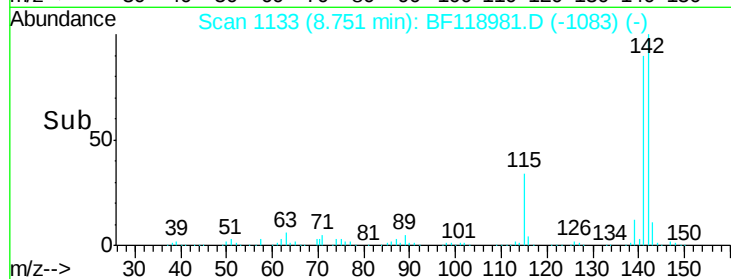
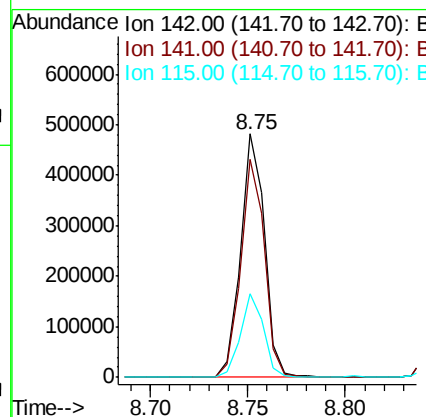
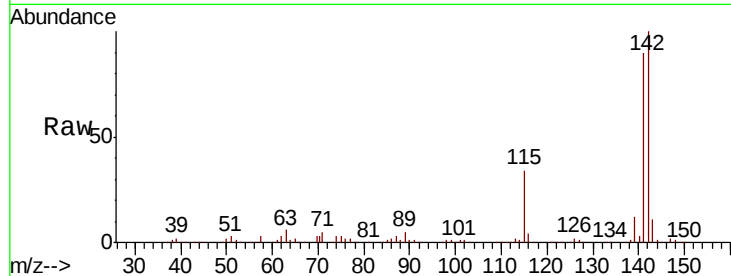
#37
2-Methylnaphthalene
Concen: 14.836 ng
RT: 8.75 min Scan# 1133
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.0	106.4
115	34.5	28.6	42.8

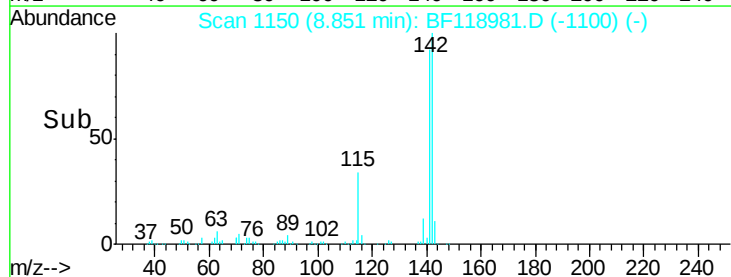
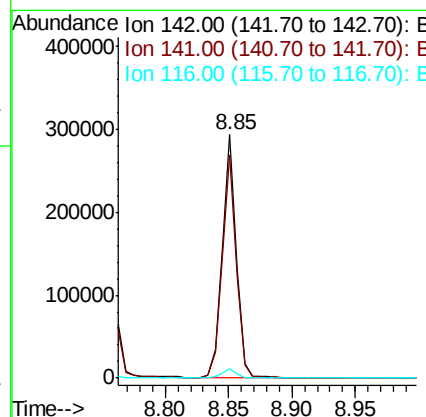
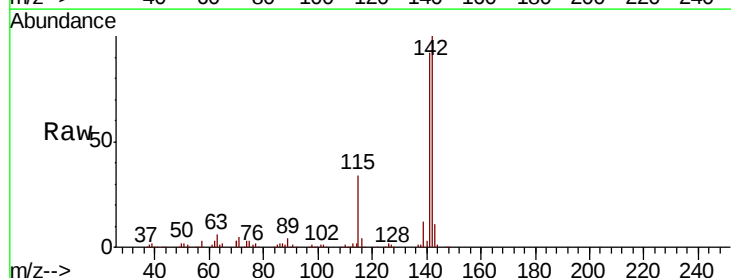
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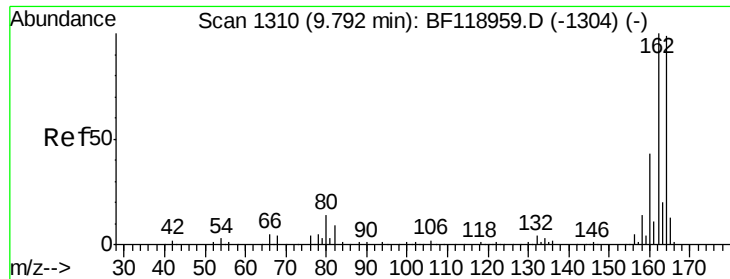
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#38
1-Methylnaphthalene
Concen: 8.920 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.7	110.5
116	3.6	3.0	4.6





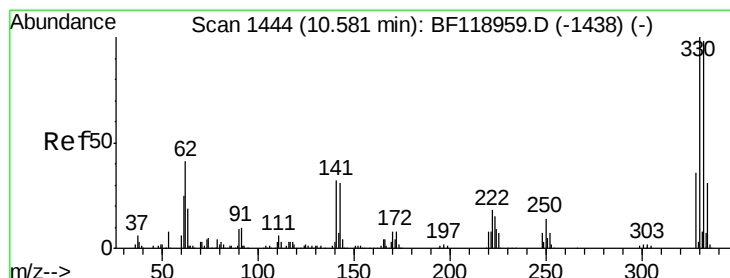
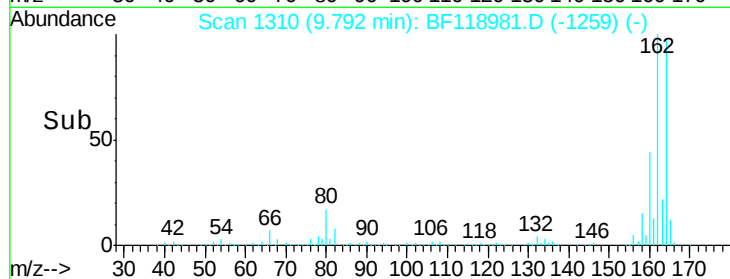
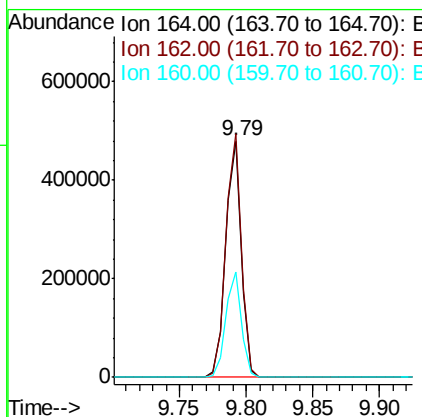
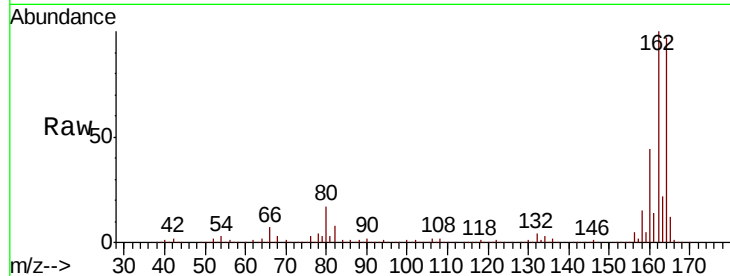
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
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TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.2	81.2	121.8
160	44.9	35.2	52.8

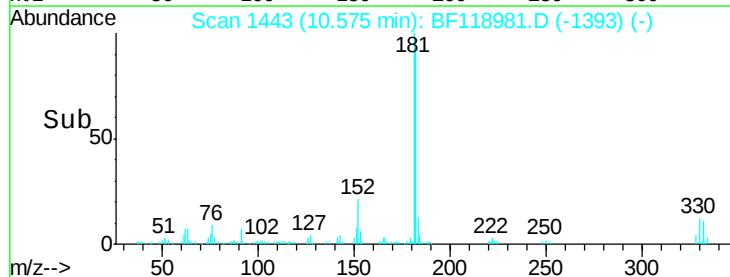
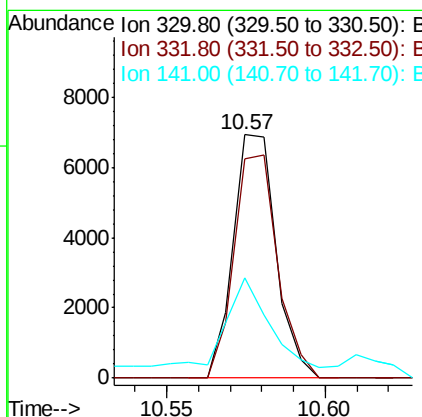
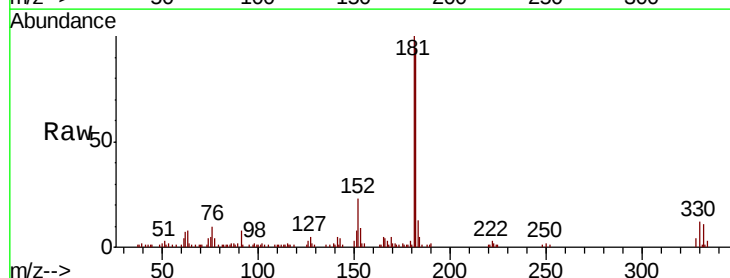
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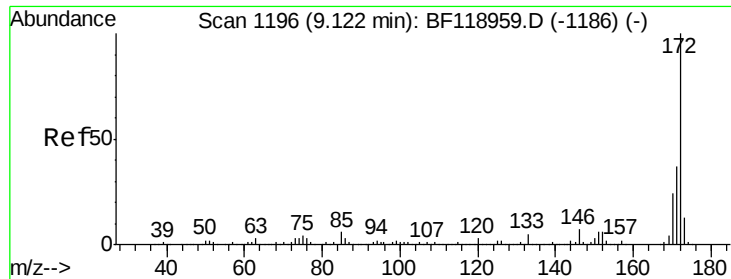
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#42
2,4,6-Tribromophenol
Concen: 1.238 ng
RT: 10.57 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BF118981.D
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Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.2	77.1	115.7
141	49.2	23.0	34.6





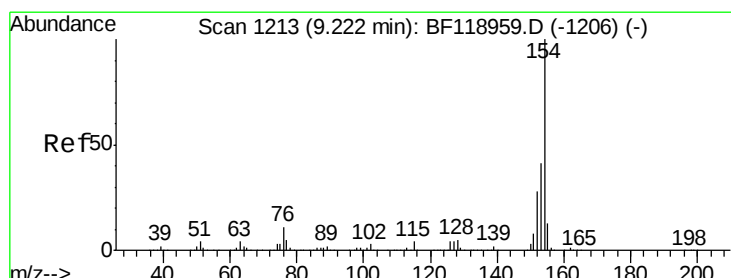
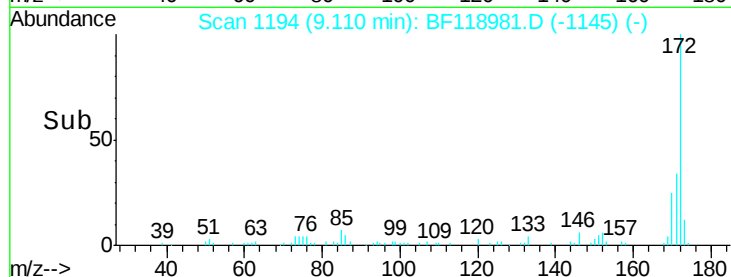
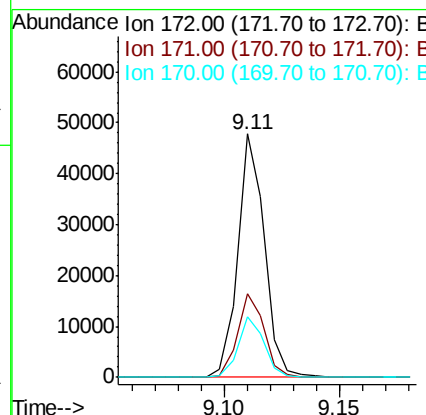
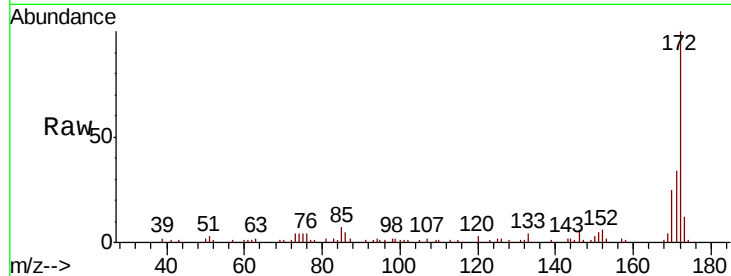
#45
2-Fluorobiphenyl
Concen: 1.408 ng
RT: 9.11 min Scan# 1194
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	38222		
171	34.3		29.4	44.2
170	24.9		19.6	29.4

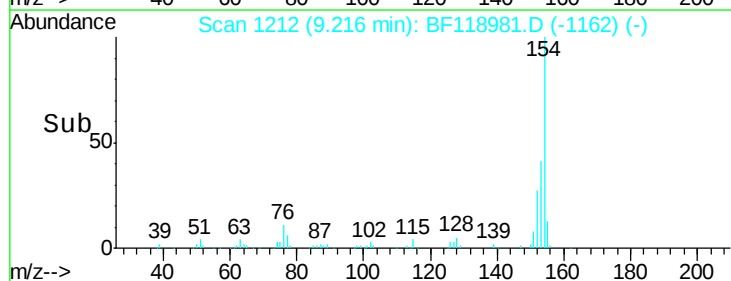
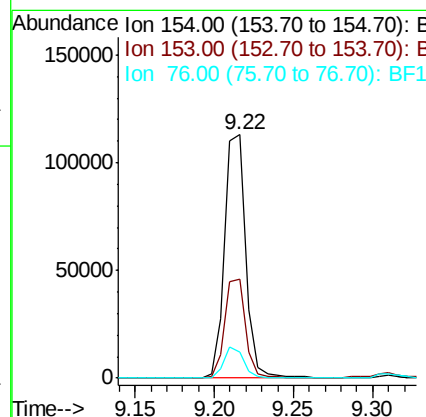
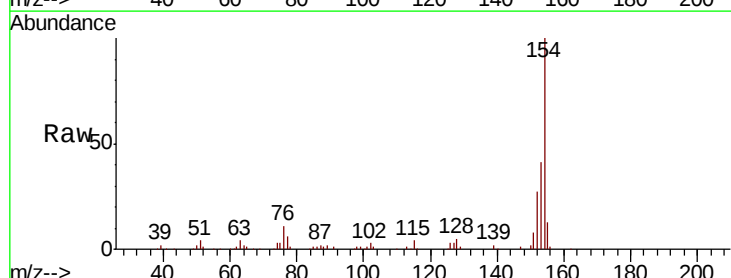
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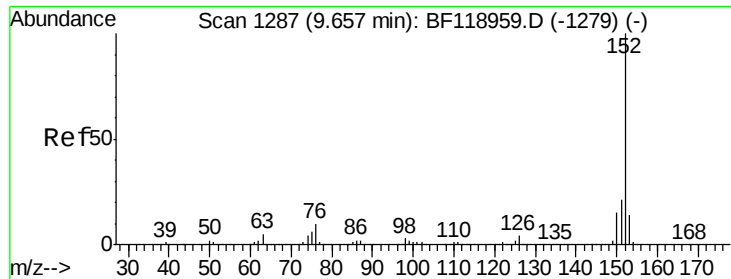
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#46
1,1'-Biphenyl
Concen: 3.227 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	104327		
153	40.6		21.2	61.2
76	10.7		0.0	31.1





#49

Acenaphthylene

Concen: 4.631 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.01 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Instrument :

BNA_F

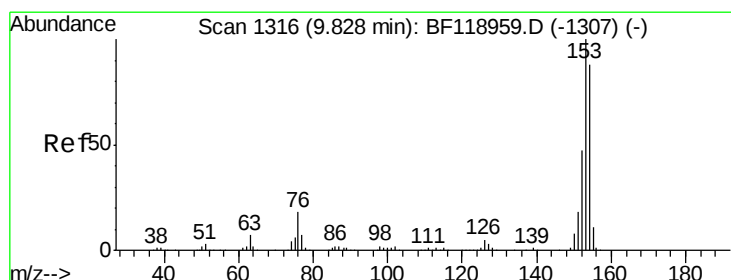
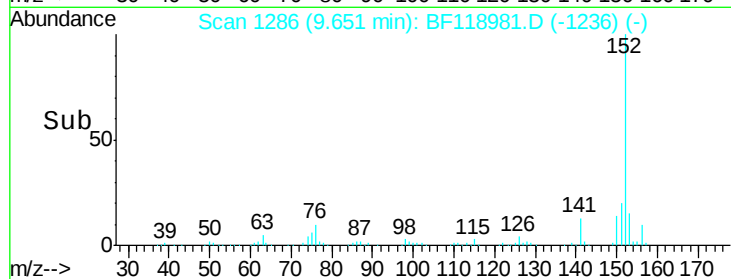
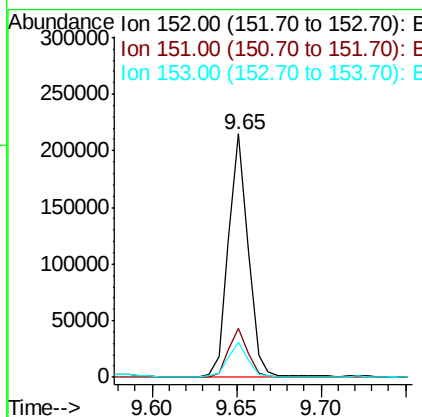
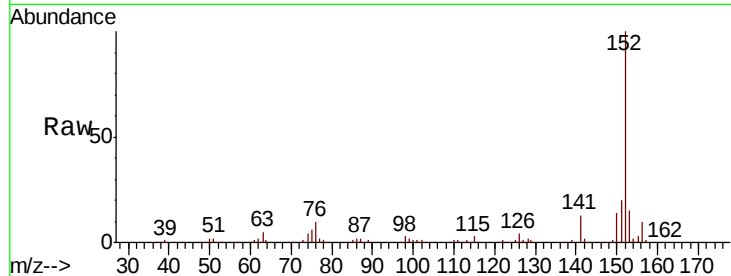
ClientSampleId :

TP9-EP1-2.5DL

Tot Ion:	152	Resp:	174240
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.7	25.1
153	14.5	10.9	16.3

Manual Integrations
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#52

Acenaphthene

Concen: 9.122 ng

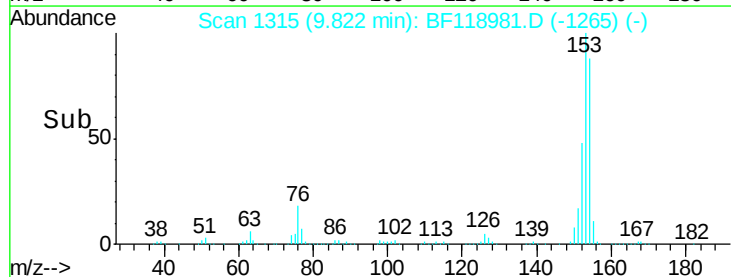
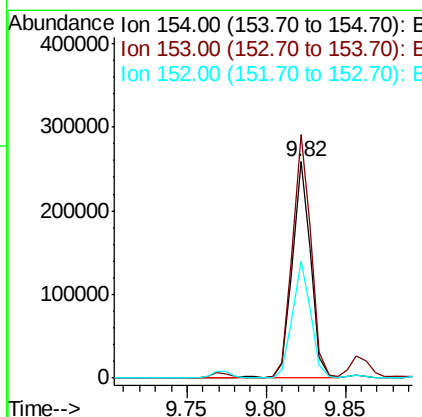
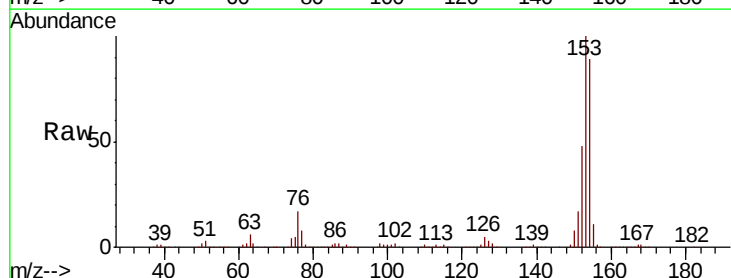
RT: 9.82 min Scan# 1315

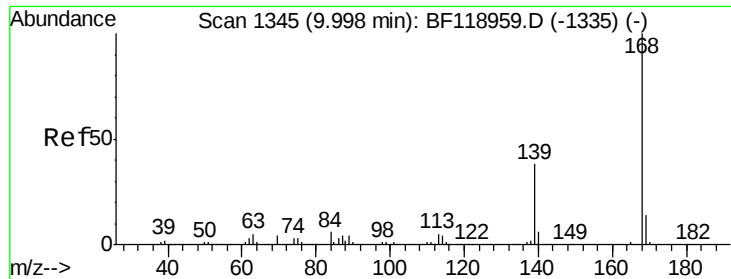
Delta R.T. -0.01 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Tgt Ion:	154	Resp:	206967
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.4	135.6
152	54.0	42.9	64.3





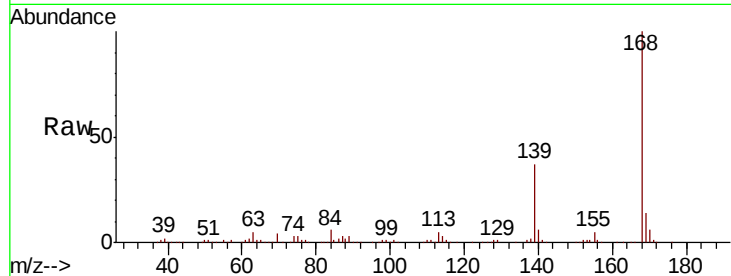
#55
Dibenzenofuran
Concen: 9.742 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.3	31.7	47.5
169	14.5	11.0	16.4

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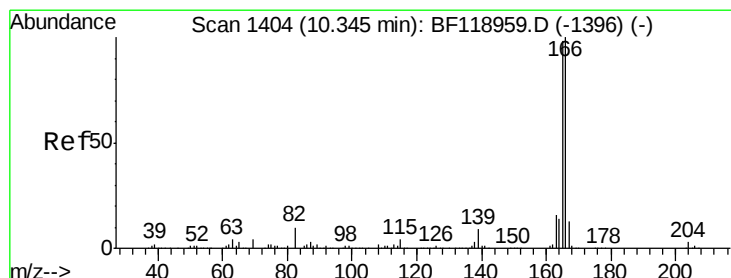
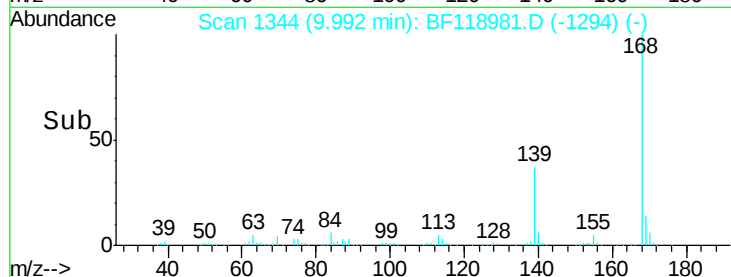
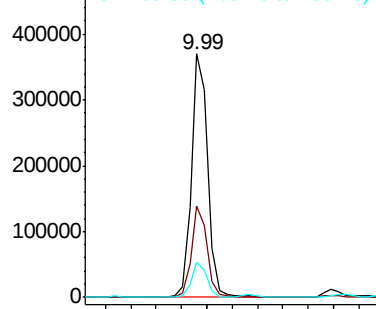


Abundance

Ion 168.00 (167.70 to 168.70): E

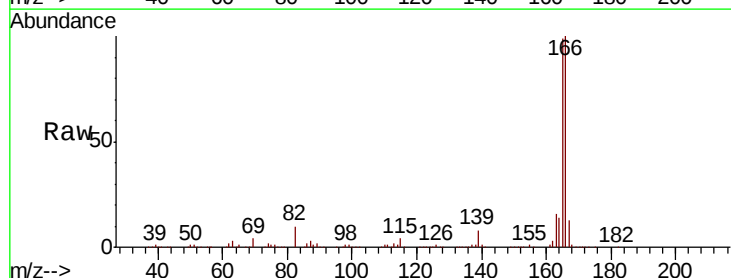
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58
Fluorene
Concen: 16.107 ng
RT: 10.34 min Scan# 1403
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.2	117.4
167	13.4	10.6	16.0

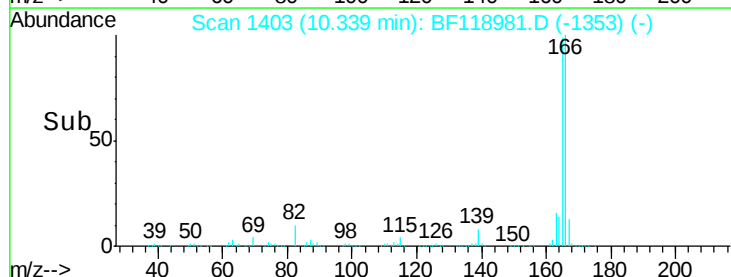
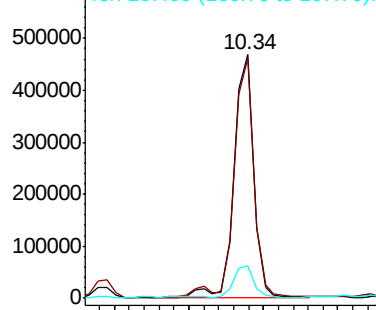


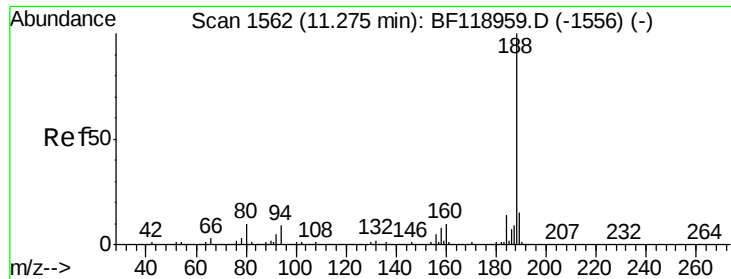
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





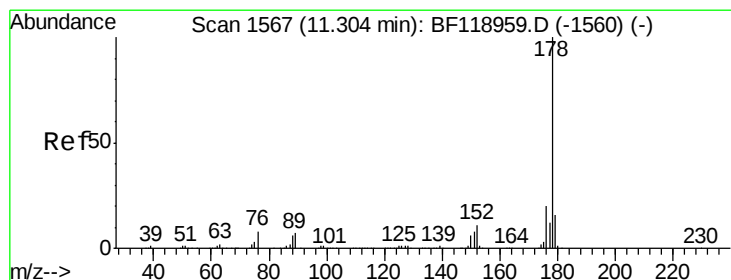
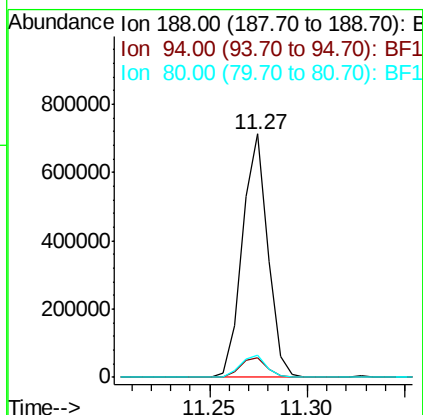
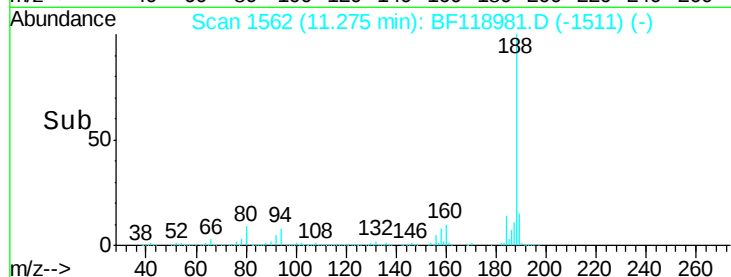
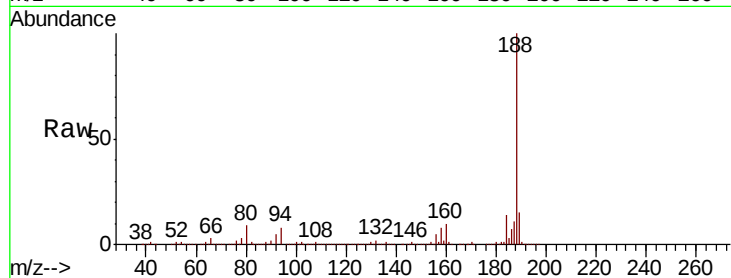
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.2	7.0	10.6
80	9.2	7.9	11.9

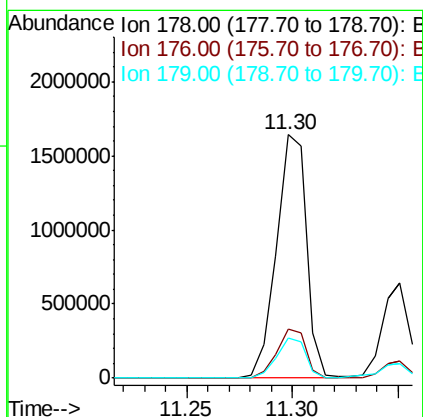
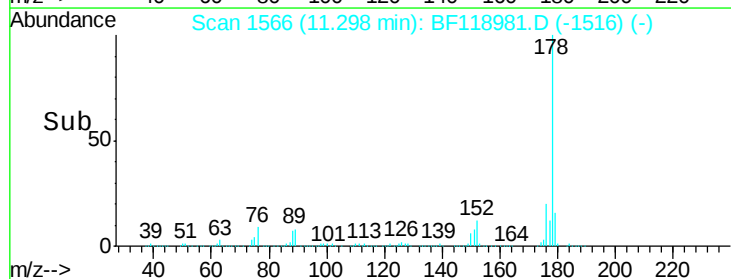
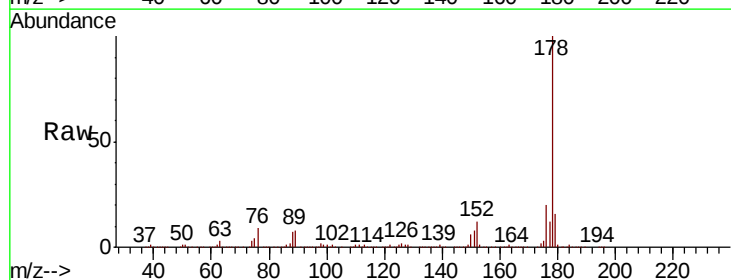
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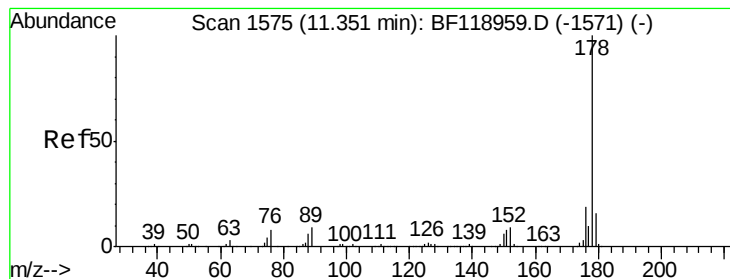
mohammad
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#71
Phenanthrene
Concen: 46.556 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.0	15.6	23.4
179	16.3	12.6	18.8





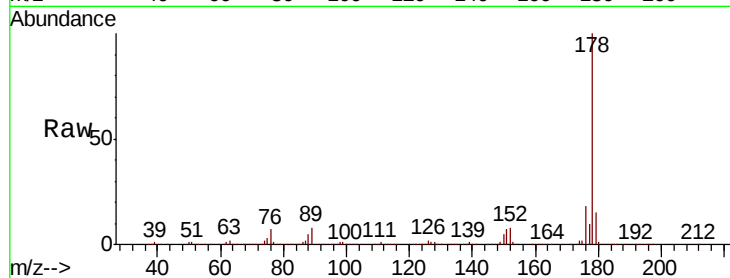
#72
 Anthracene
 Concen: 15.845 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.3	12.8	19.2

Manual Integrations
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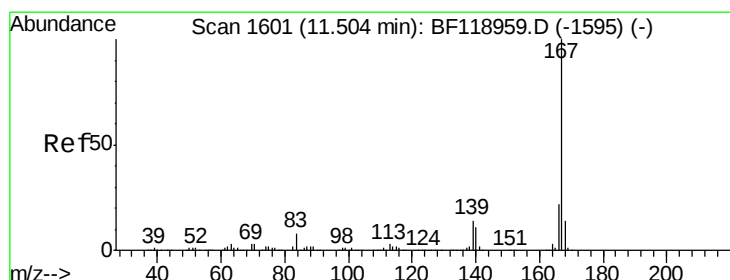
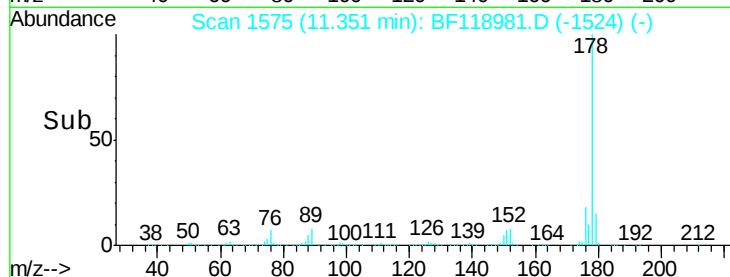
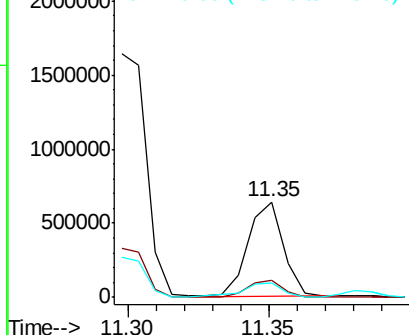


Abundance

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



#73
 Carbazole
 Concen: 6.416 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. -0.00 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

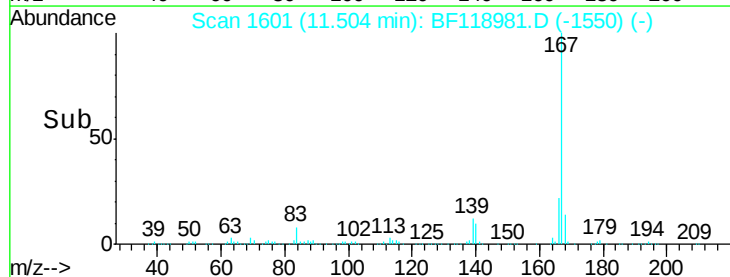
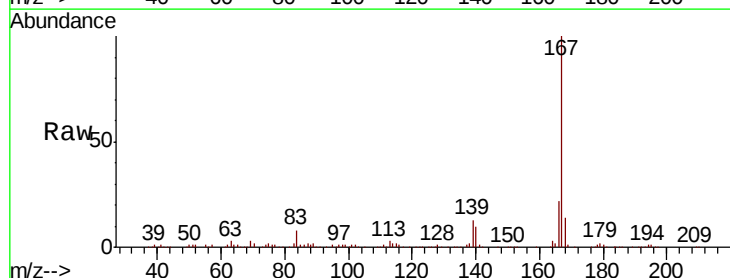
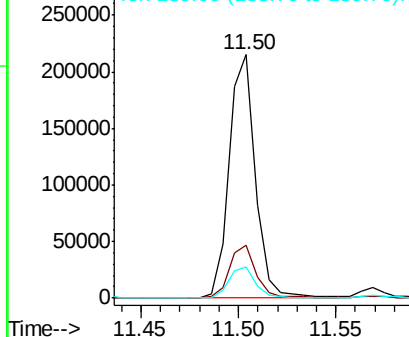
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.8	26.6
139	12.6	11.2	16.8

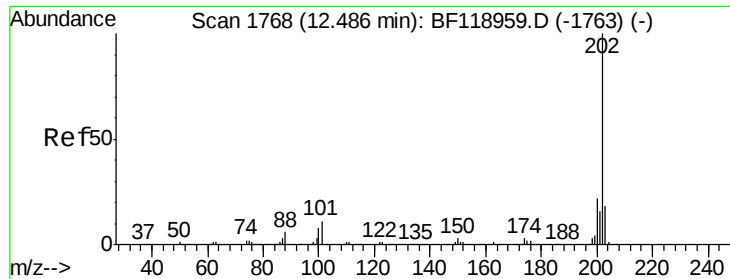
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 30.370 ng

RT: 12.49 min Scan# 1768

Delta R.T. -0.00 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Instrument :

BNA_F

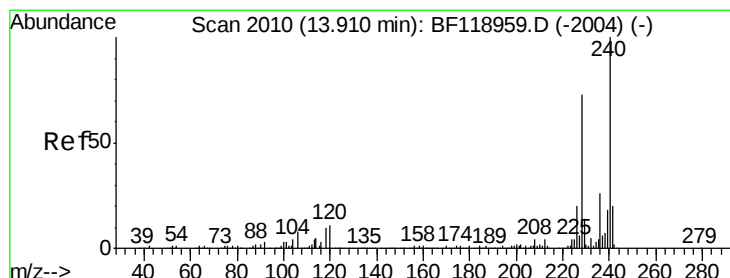
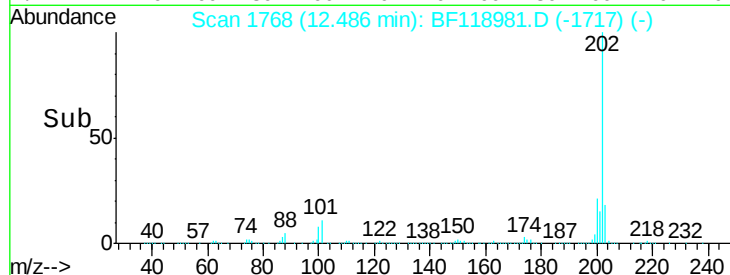
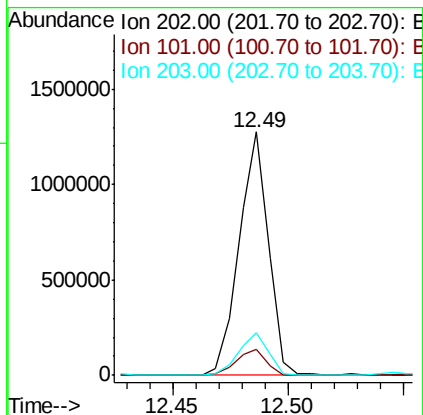
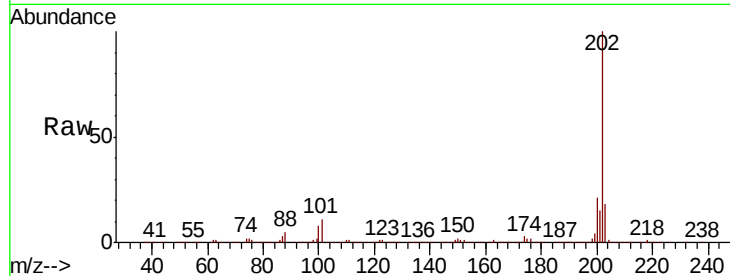
ClientSampleId :

TP9-EP1-2.5DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	10.8	0.0	31.1		
203	17.7	0.0	38.1		

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#76

Chrysene-d12

Concen: 20.000 ng

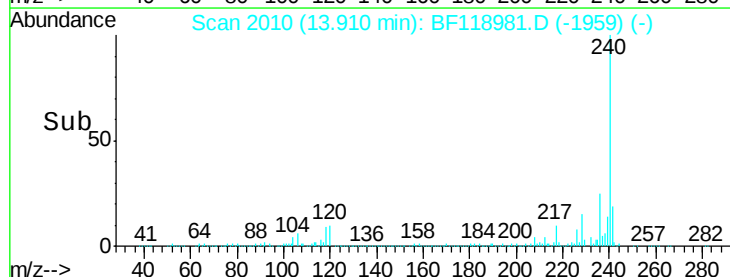
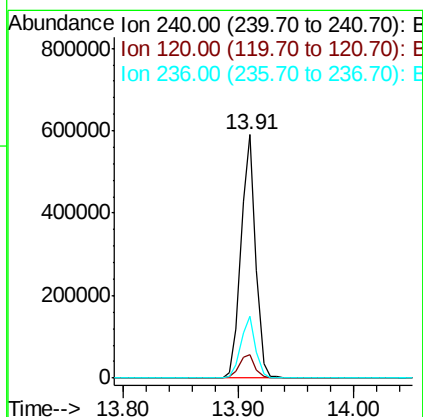
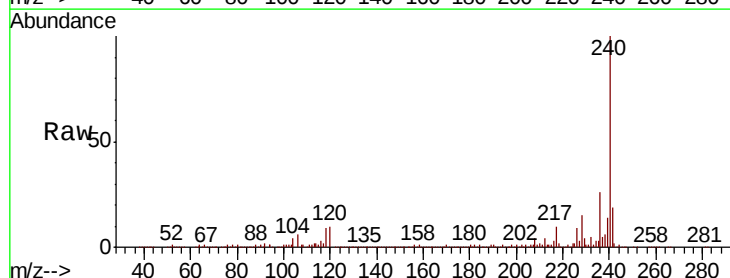
RT: 13.91 min Scan# 2010

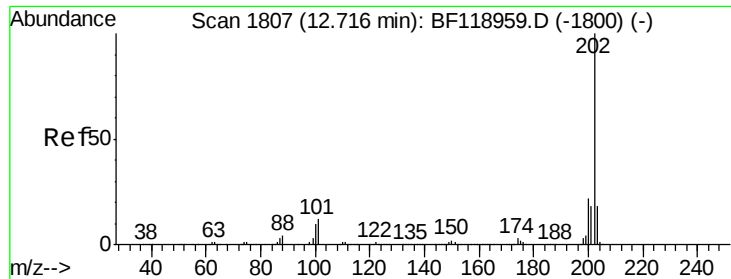
Delta R.T. 0.00 min

Lab File: BF118981.D

Acq: 21 Feb 2020 1:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	9.6	8.9	13.3		
236	25.6	20.6	30.8		





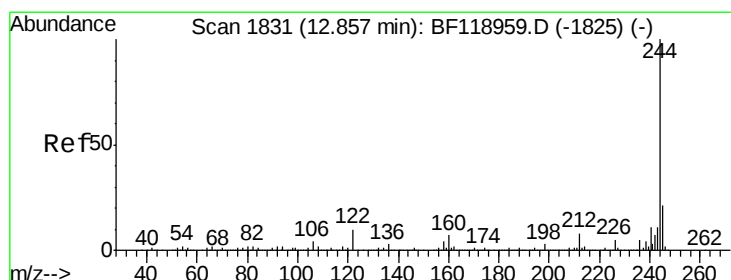
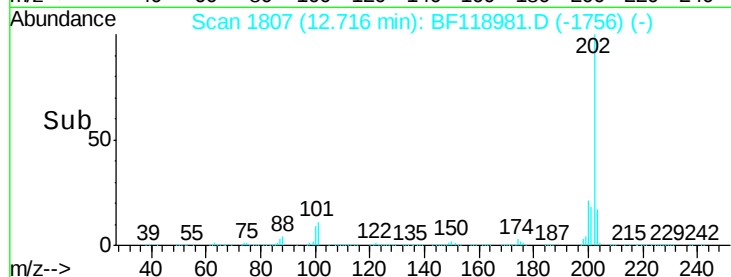
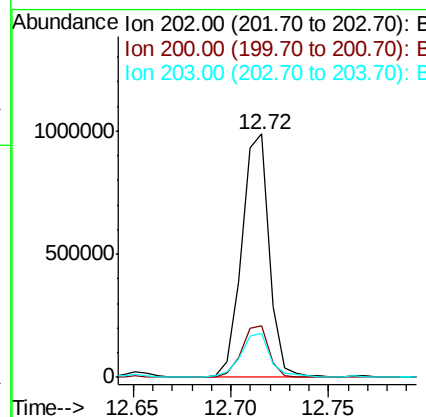
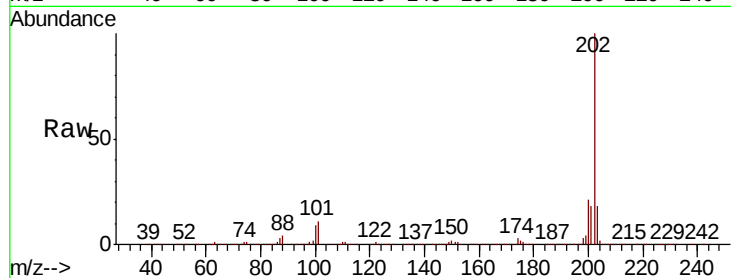
#78
Pvrene
Concen: 22.914 ng
RT: 12.72 min Scan# 1807
Delta R.T. -0.00 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	17.9	14.5	21.7

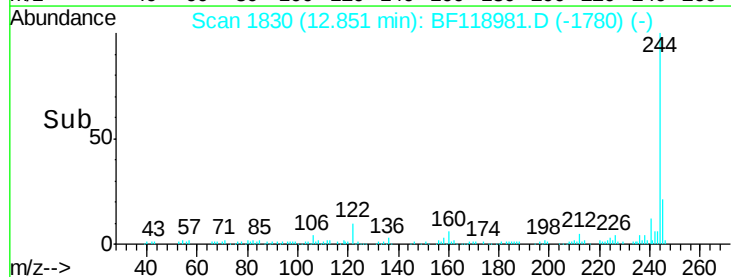
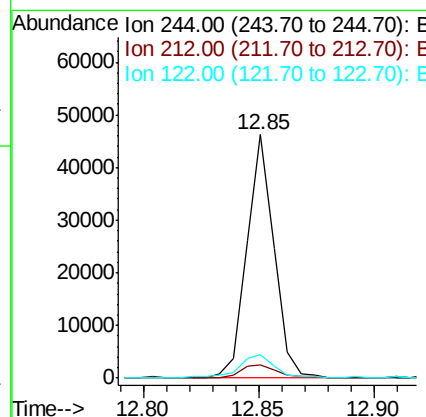
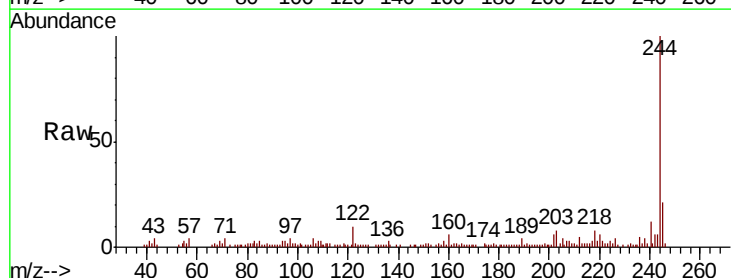
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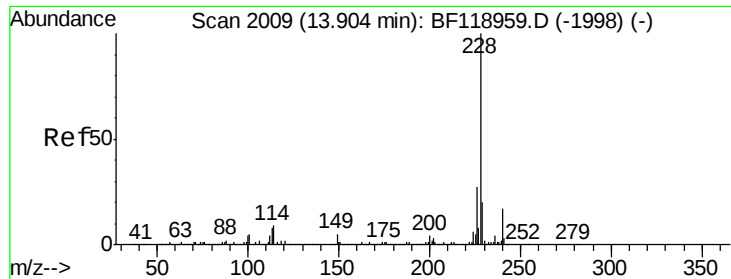
mohammad
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#79
Terphenyl-d14
Concen: 1.252 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.5	6.3	9.5#
122	9.9	8.4	12.6





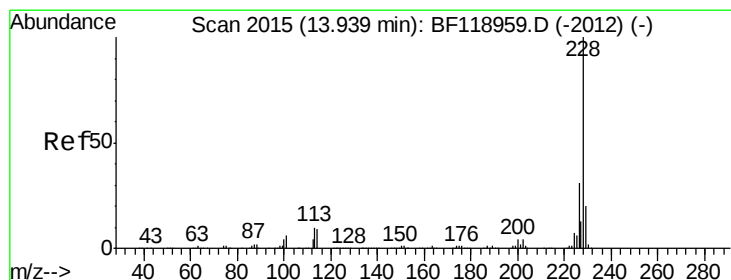
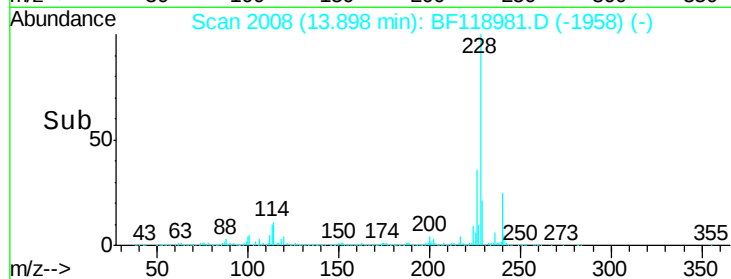
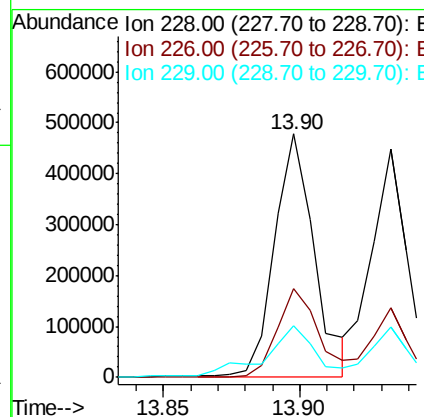
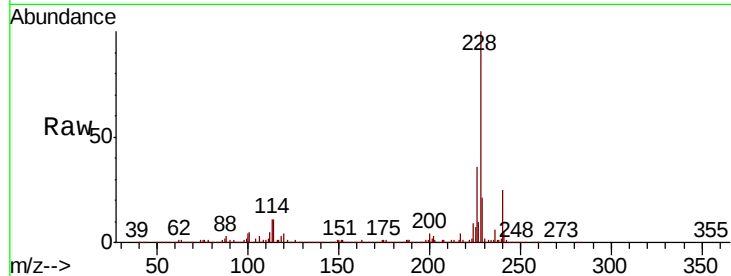
#81
Benzo(a)anthracene
Concen: 13.712 ng m
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.3	21.8	32.8#
229	21.3	16.0	24.0

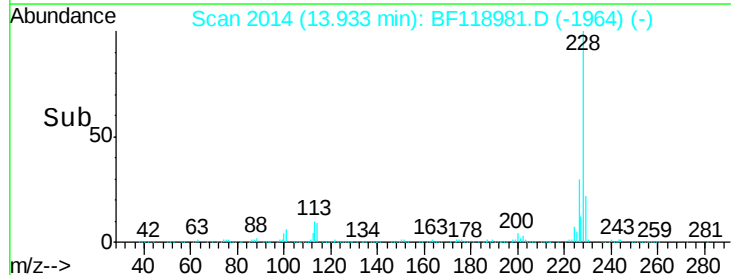
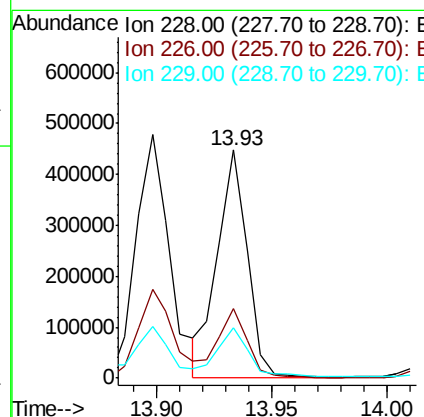
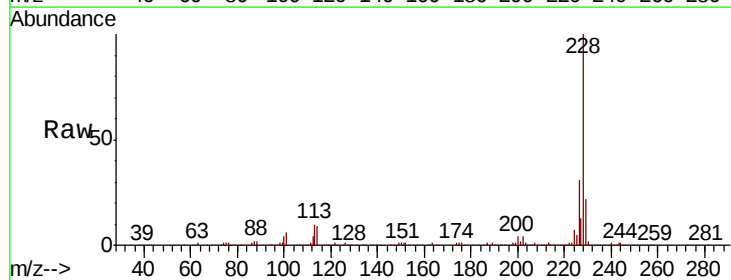
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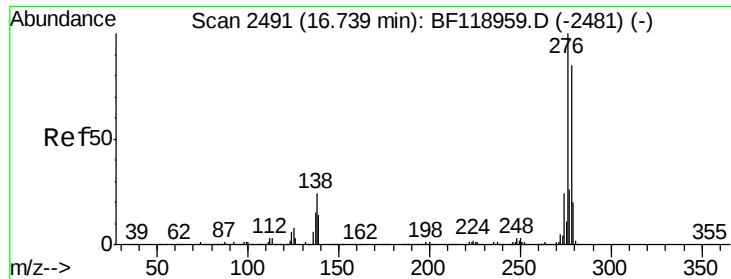
mohammad
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#83
Chrysene
Concen: 11.286 ng
RT: 13.93 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	22.2	16.2	24.2





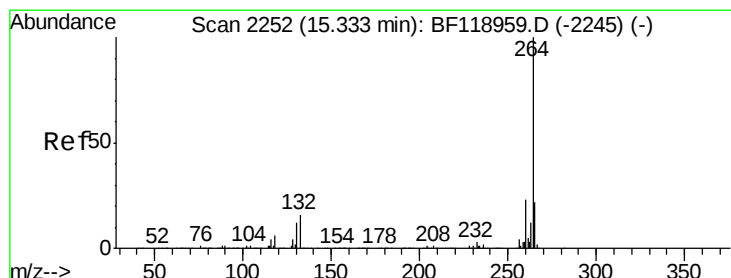
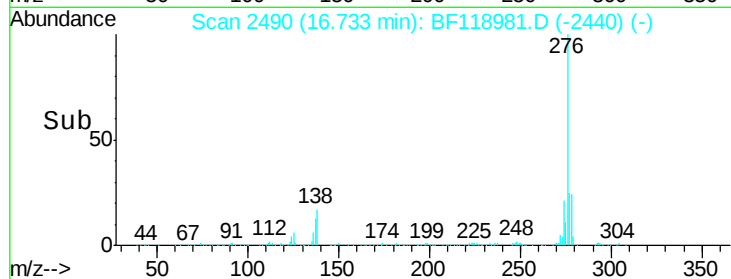
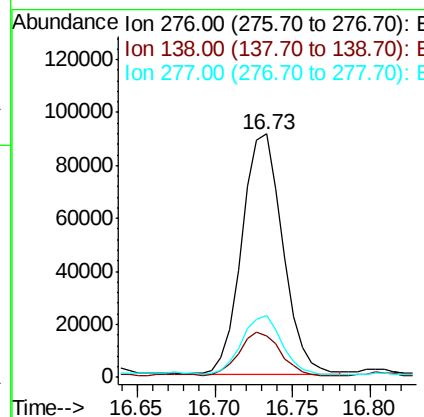
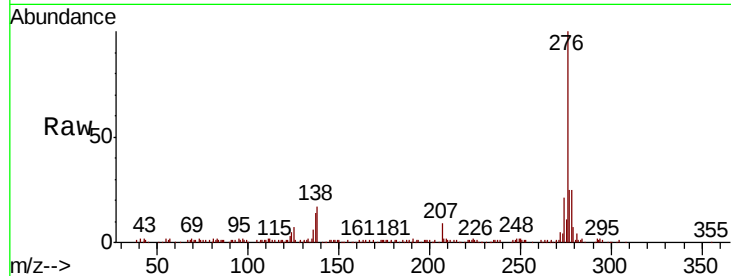
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.794 ng
 RT: 16.73 min Scan# 2490
 Delta R.T. -0.01 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	3.6	18.7	28.1#
277	4.8	20.3	30.5#

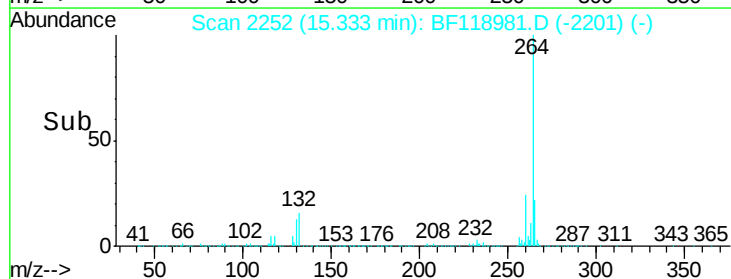
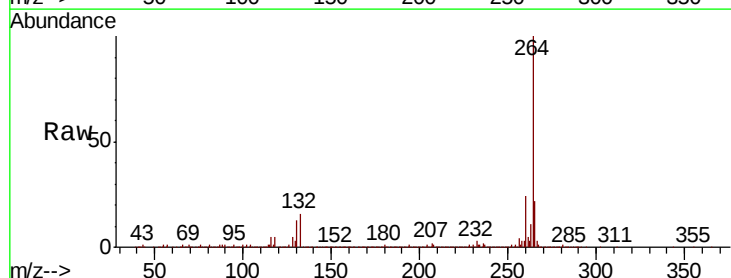
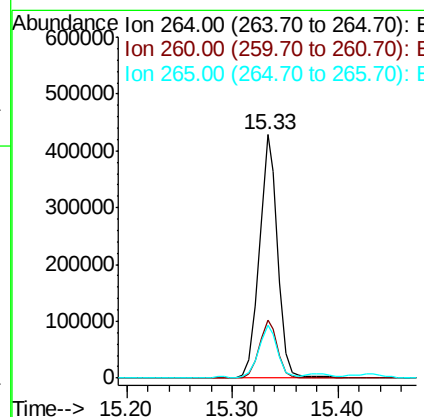
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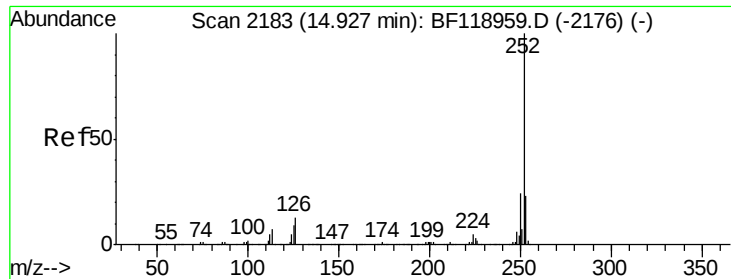
mohammad
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: BF118981.D
 Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.9	17.3	25.9





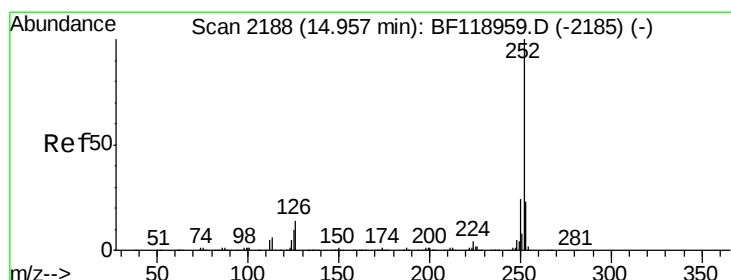
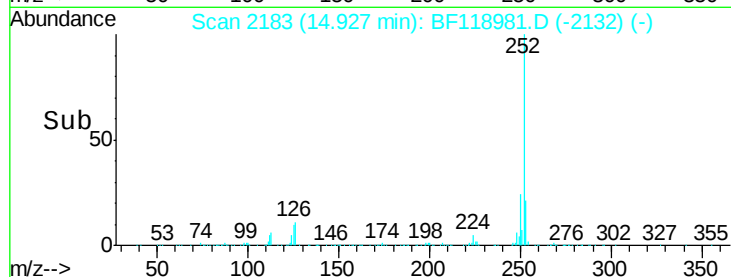
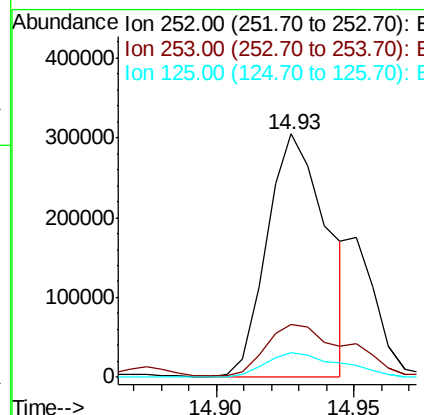
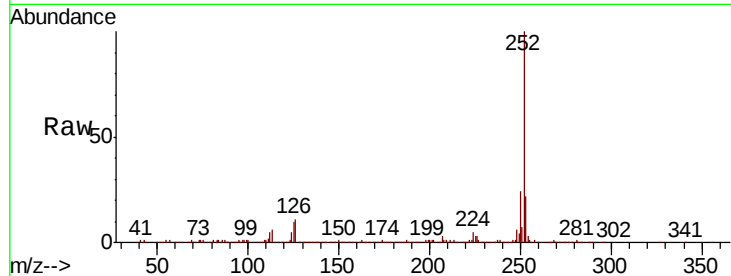
#88
Benzo(b)fluoranthene
Concen: 13.425 ng m
RT: 14.93 min Scan# 2183
Delta R.T. -0.00 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.2	27.2
125	9.9	7.4	11.0

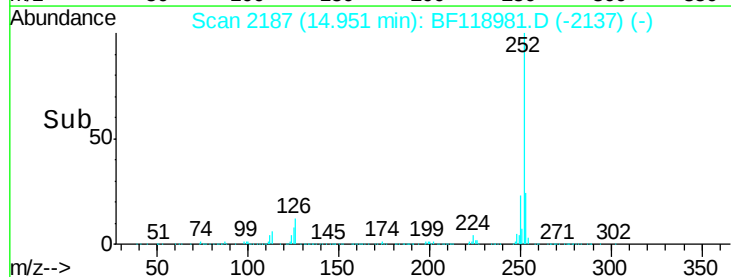
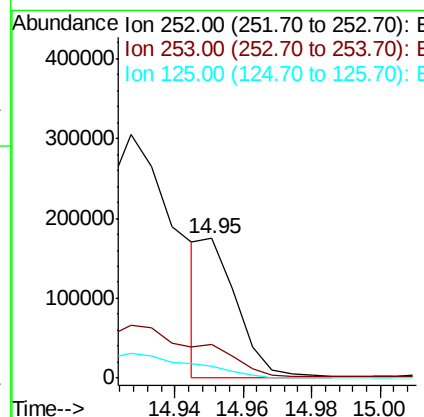
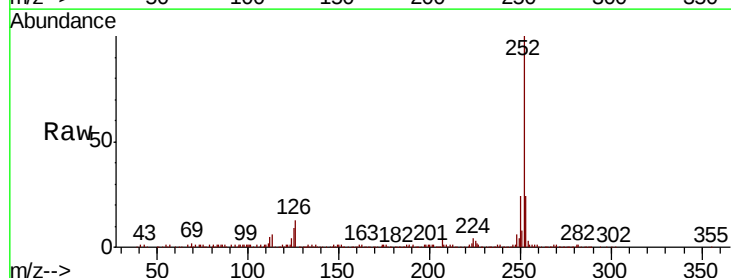
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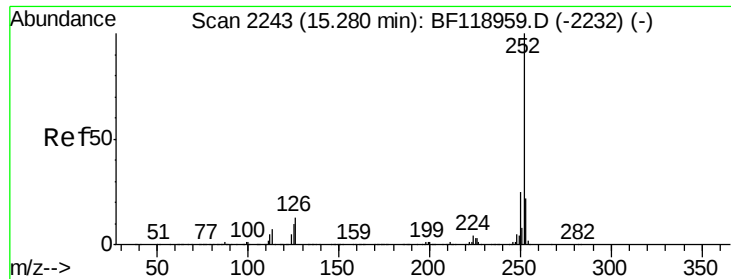
mohammad
2/21/2020 2:19:02 PM



#89
Benzo(k)fluoranthene
Concen: 3.842 ng m
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	8.7	7.3	10.9





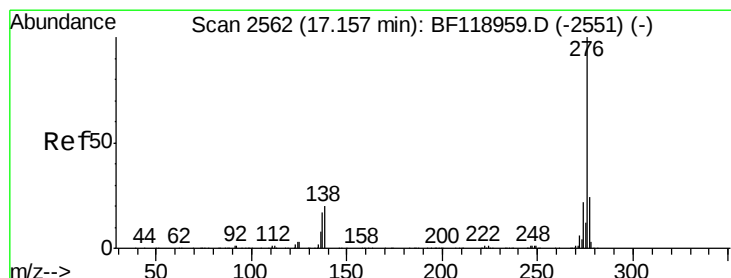
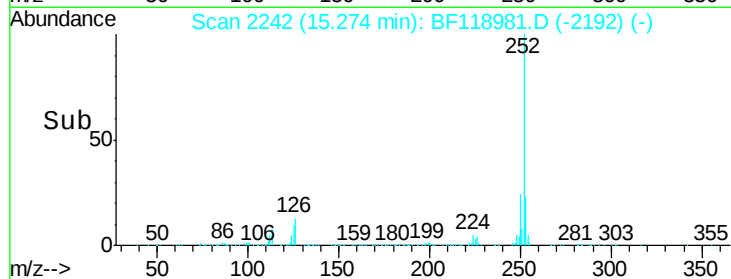
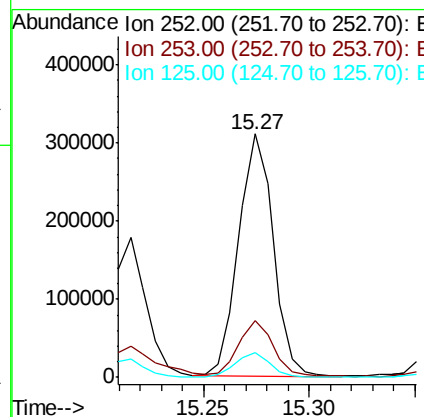
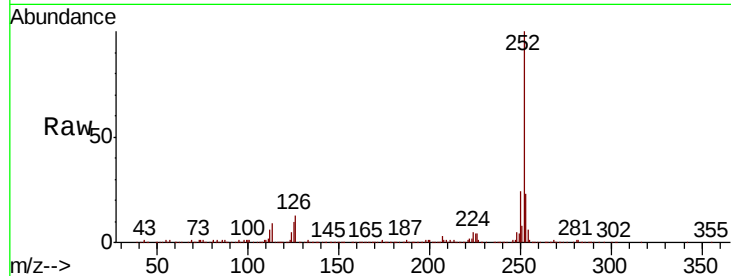
#90
Benzo(a)pyrene
Concen: 11.353 ng
RT: 15.27 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	10.2	7.8	11.6

Manual Integrations
APPROVED

mohammad
2/21/2020 2:19:02 PM



#92
Benzo(g,h,i)perylene
Concen: 5.571 ng
RT: 17.15 min Scan# 2561
Delta R.T. -0.01 min
Lab File: BF118981.D
Acq: 21 Feb 2020 1:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.2	28.8
138	19.8	16.2	24.4

