

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
 Data File : BF118883.D
 Acq On : 10 Feb 2020 22:12
 Operator : CG/JU
 Sample : L1468-05 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Manual Integrations
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mohammad
 2/13/2020 10:29:03 AM

Quant Time: Feb 11 02:05:23 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	226322	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	865935	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	412408	20.00	ng	0.00
64) Phenanthrene-d10	11.34	188	775343	20.00	ng	0.00
76) Chrysene-d12	13.98	240	514497	20.00	ng	0.00
87) Perylene-d12	15.43	264	575981	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	93853	7.85	ng	0.00
7) Phenol-d6	6.45	99	123471	8.32	ng	0.00
23) Nitrobenzene-d5	7.37	82	91900	6.33	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	43172	8.75	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	186703	8.09	ng	-0.01
79) Terphenyl-d14	12.92	244	300000	11.98	ng	-0.01
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.76	122	26616	2.534	ng	98
31) Naphthalene	8.13	128	752582	190.019	ng	# 92
37) 2-Methylnaphthalene	8.82	142	1644780	59.881	ng	97
38) 1-Methylnaphthalene	8.91	142	998509	38.643	ng	100
46) 1,1'-Biphenyl	9.27	154	503702	17.656	ng	98
49) Acenaphthylene	9.71	152	880825	25.723	ng	97
52) Acenaphthene	9.89	154	944173	41.843	ng	98
55) Dibenzofuran	10.06	168	1532427	46.992	ng	100
58) Fluorene	10.40	166	1905292	77.662	ng	98
71) Phenanthrene	11.38	178	6178106	161.951	ng	94
72) Anthracene	11.42	178	2795467	73.661	ng	99
73) Carbazole	11.57	167	1166485	35.024	ng	99
75) Fluoranthene	12.56	202	5619852	134.928	ng	95
78) Pyrene	12.79	202	5027794	142.447	ng	94
81) Benzo(a)anthracene	13.97	228	2237881m	73.096	ng	
83) Chrysene	14.01	228	1932731	62.899	ng	98
86) Indeno(1,2,3-cd)pyrene	16.87	276	789494	25.573	ng	96
88) Benzo(b)fluoranthene	15.02	252	2355173m	65.896	ng	
89) Benzo(k)fluoranthene	15.04	252	620611m	19.941	ng	
90) Benzo(a)pyrene	15.37	252	1781753	58.252	ng	98
91) Dibenzo(a,h)anthracene	16.87	278	225993m	8.323	ng	
92) Benzo(g,h,i)perylene	17.31	276	696267	26.663	ng	98

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

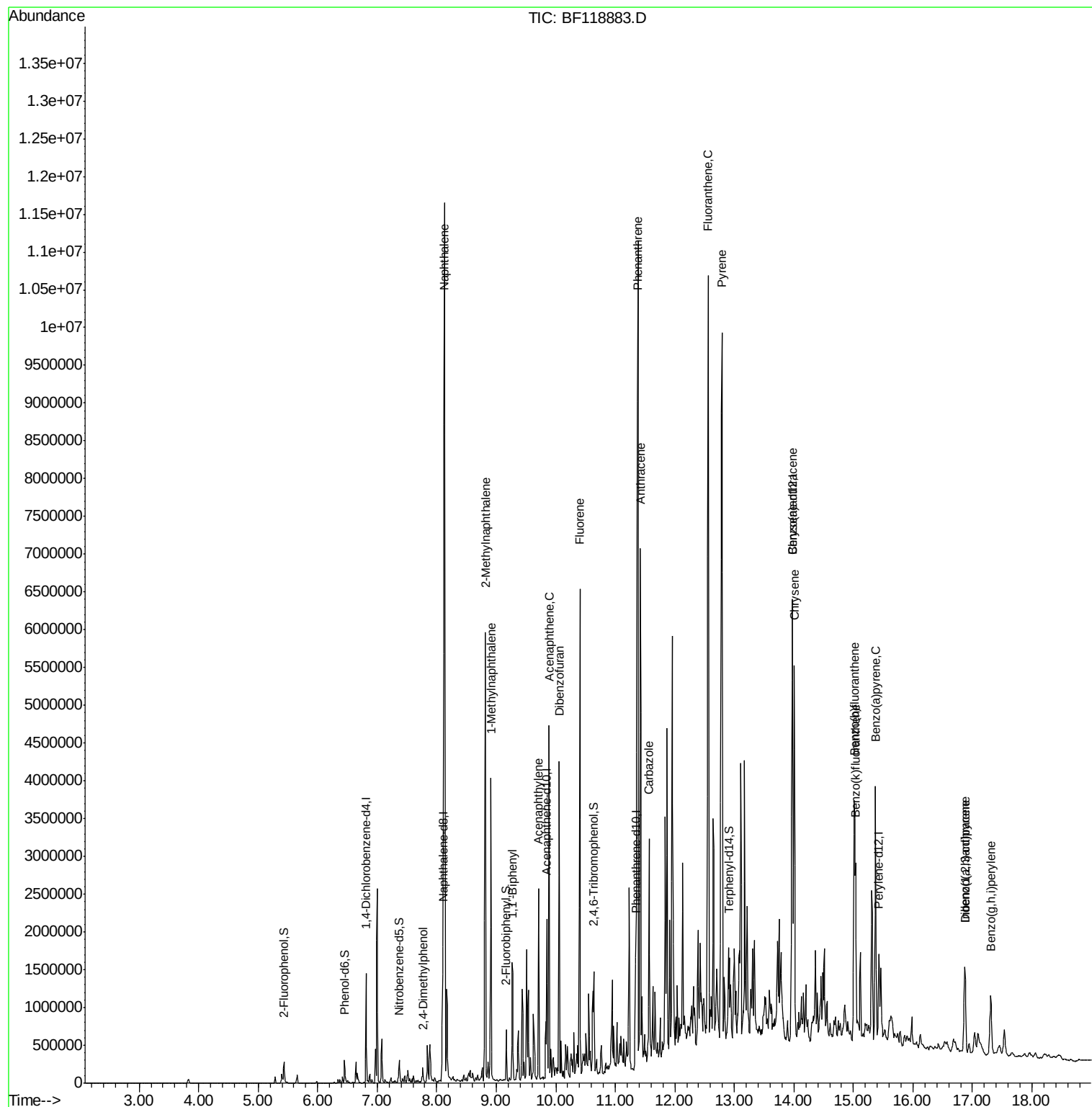
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118883.D
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Sample : L1468-05 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

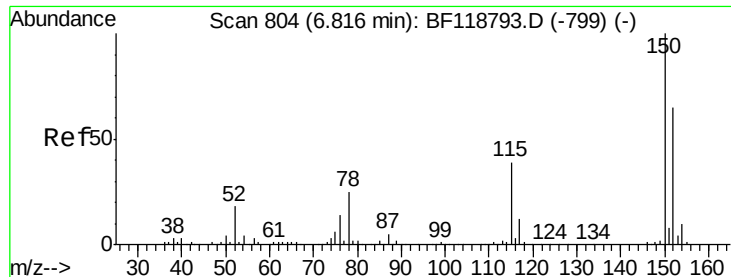
Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

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Quant Time: Feb 11 02:05:23 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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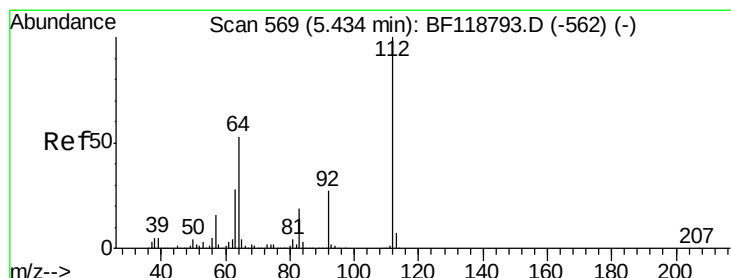
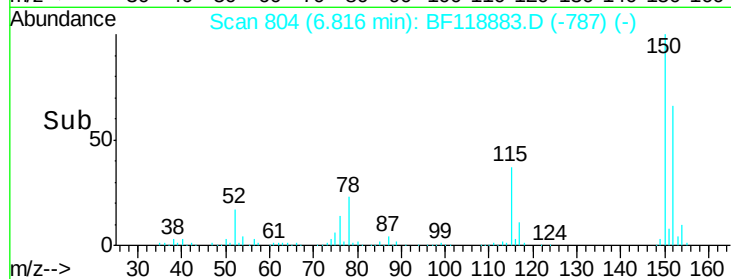
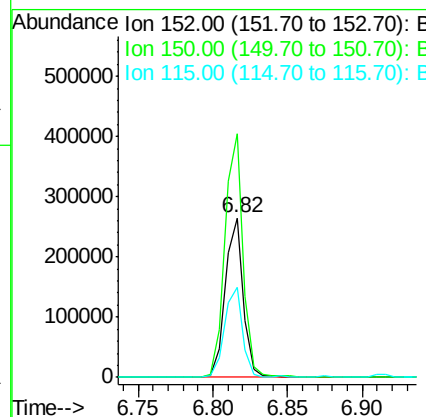
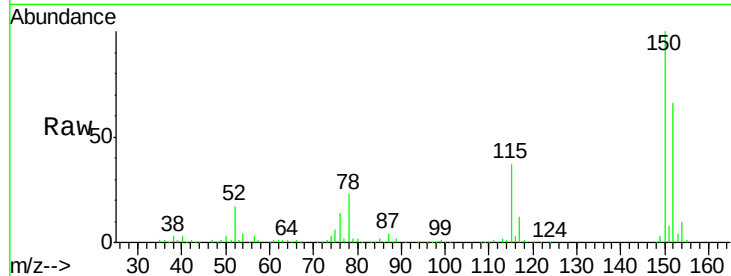
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Resp	Lower	Upper
152	100	226322		
150	152.6	123.6	185.4	
115	56.4	48.2	72.2	

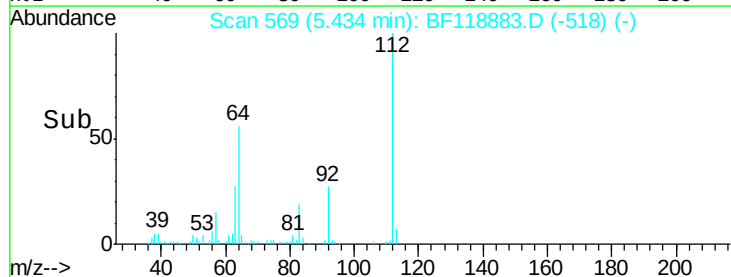
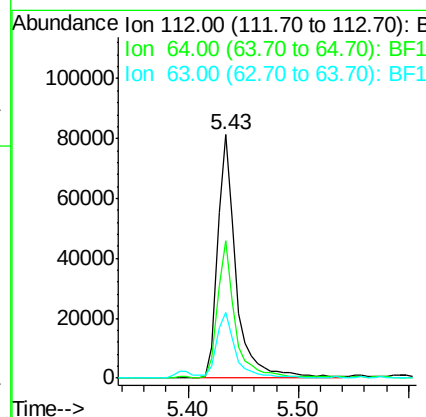
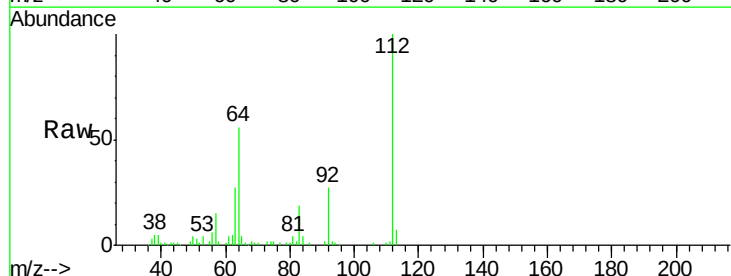
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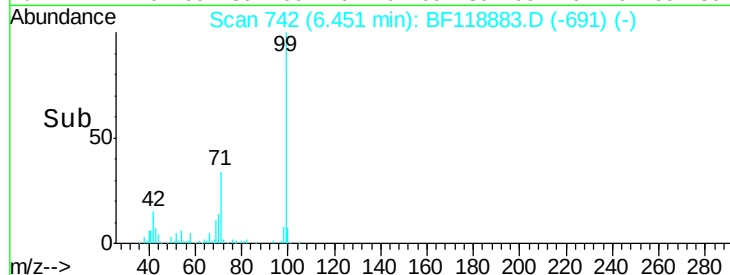
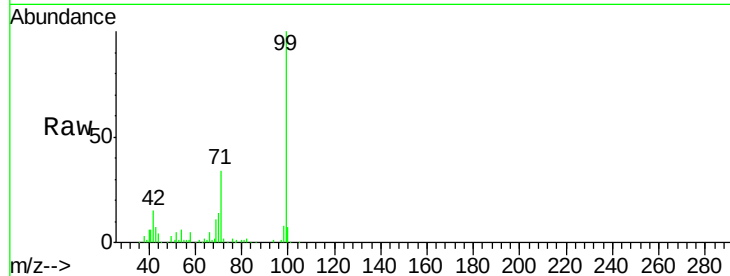
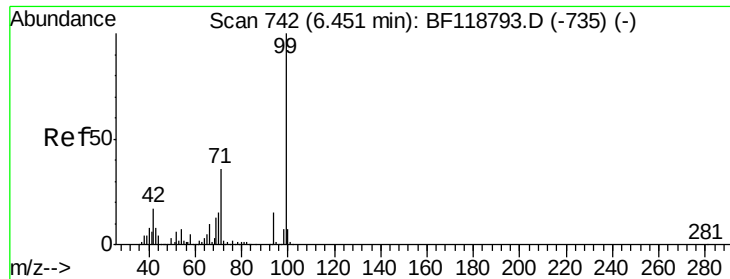
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#5
 2-Fluorophenol
 Concen: 7.850 ng
 RT: 5.43 min Scan# 569
 Delta R.T. -0.00 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	93853		
64	56.5	42.6	63.8	
63	27.1	22.2	33.4	





#7

Phenol-d6

Concen: 8.319 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tot Ion:	99	Resp:	123471
Ion Ratio	Lower	Upper	
99	100		
42	15.3	13.4	20.0
71	34.5	29.0	43.6

Instrument :

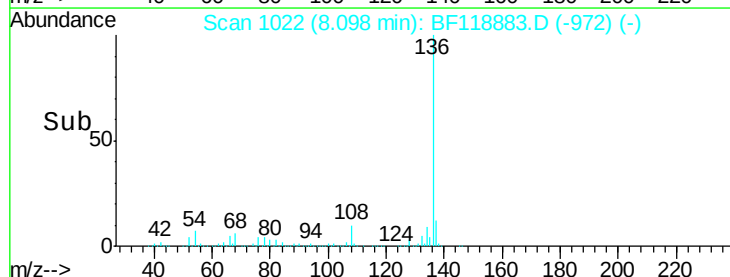
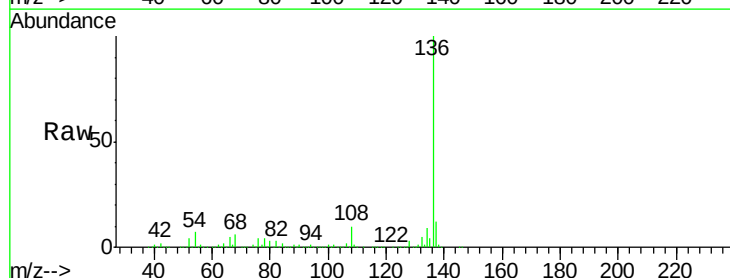
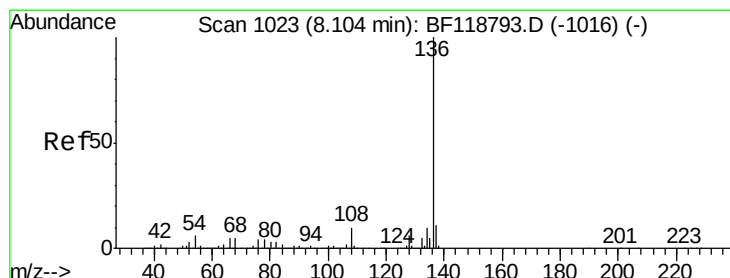
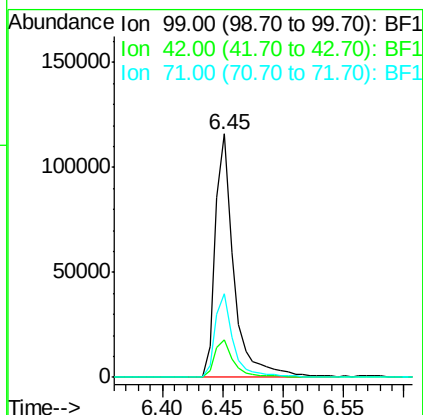
BNA_F

ClientSampleId :

TP9-EP1-2.5

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#21

Naphthalene-d8

Concen: 20.000 ng

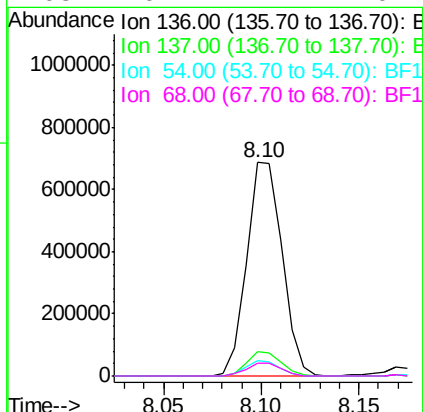
RT: 8.10 min Scan# 1022

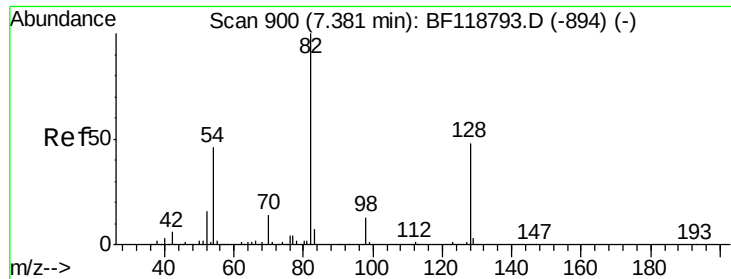
Delta R.T. -0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:	136	Resp:	865935
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.7	13.1
54	7.1	5.0	7.6
68	6.1	4.2	6.4





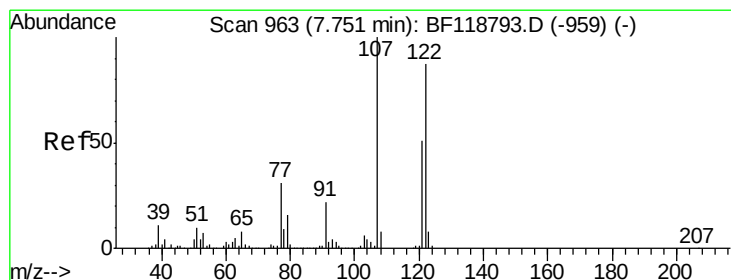
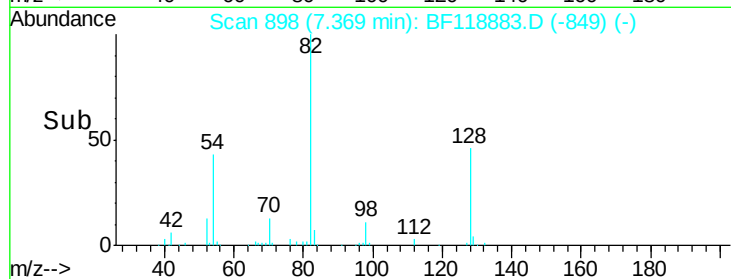
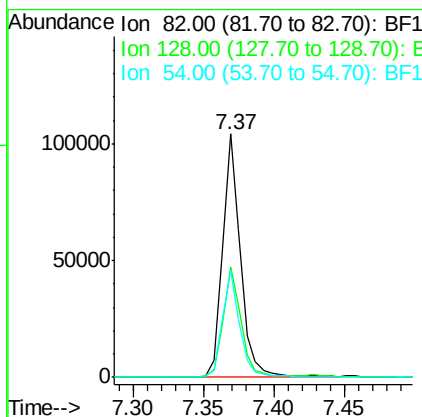
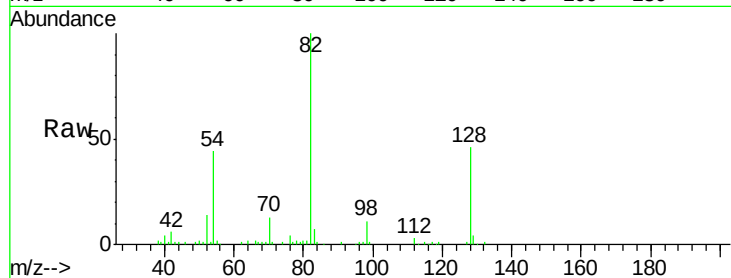
#23
 Nitrobenzene-d5
 Concen: 6.326 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion:	82	Resp:	91900
Ion	Ratio	Lower	Upper
82	100		
128	45.5	38.5	57.7
54	43.7	36.7	55.1

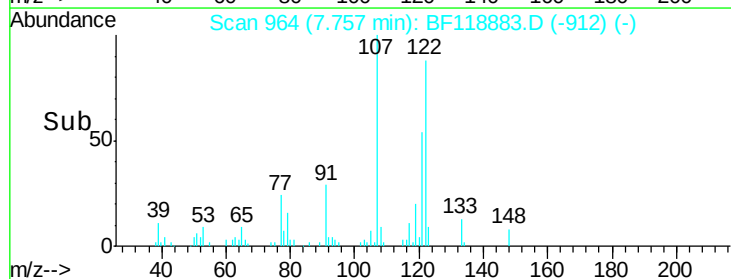
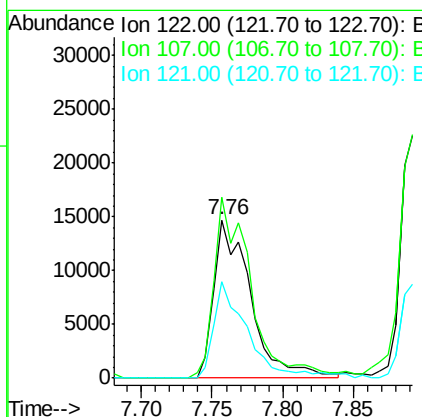
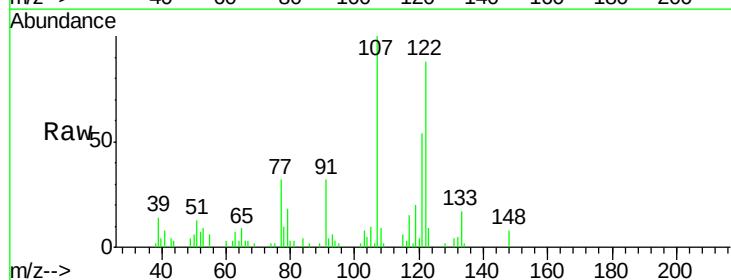
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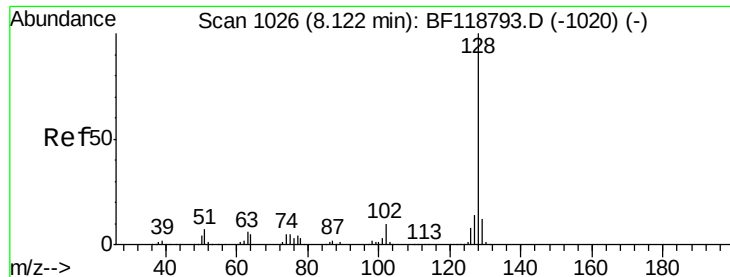
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#27
 2,4-Dimethylphenol
 Concen: 2.534 ng
 RT: 7.76 min Scan# 964
 Delta R.T. 0.01 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Tgt Ion:	122	Resp:	26616
Ion	Ratio	Lower	Upper
122	100		
107	114.0	92.2	138.2
121	61.0	46.8	70.2





#31

Naphthalene

Concen: 190.019 ng

RT: 8.13 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

ClientSampleId :

TP9-EP1-2.5

Tot Ion:128 Resp: 7525582

Ion Ratio Lower Upper

128 100

129 14.5 9.4 14.2#

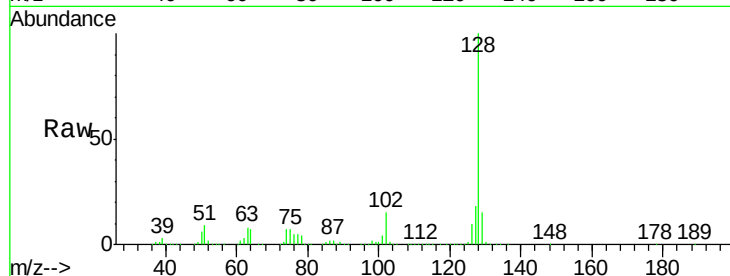
127 17.7 11.3 16.9#

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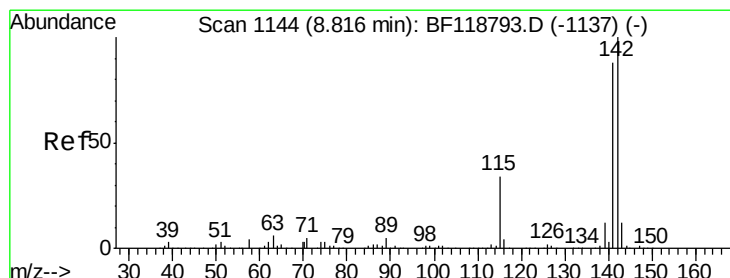
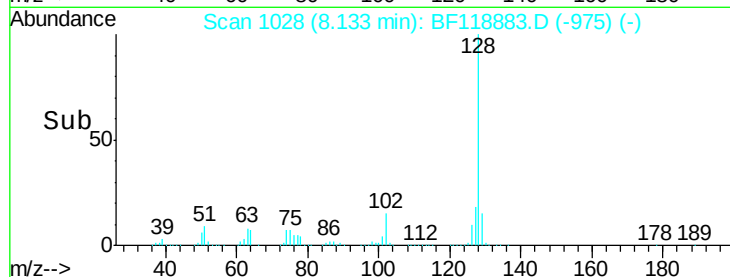
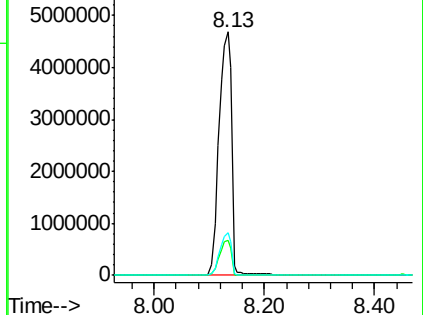
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 59.881 ng

RT: 8.82 min Scan# 1144

Delta R.T. -0.00 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

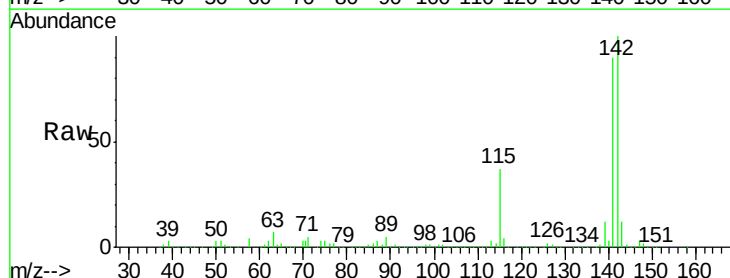
Tgt Ion:142 Resp: 1644780

Ion Ratio Lower Upper

142 100

141 89.7 70.1 105.1

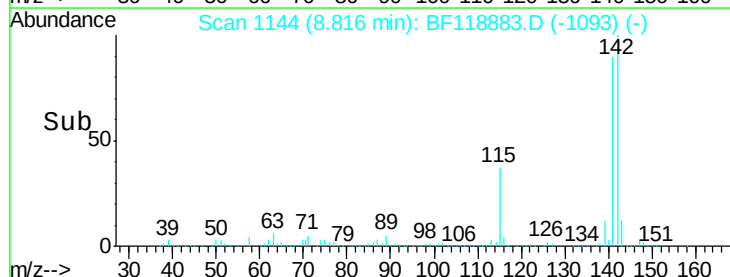
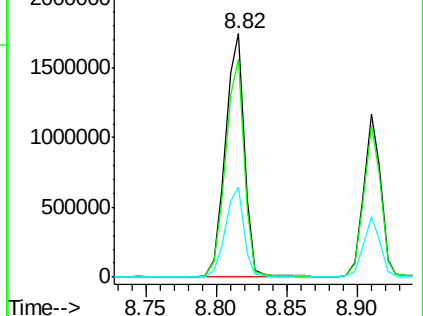
115 36.8 27.3 40.9

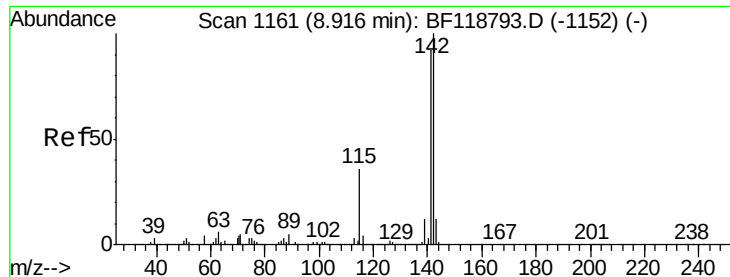


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





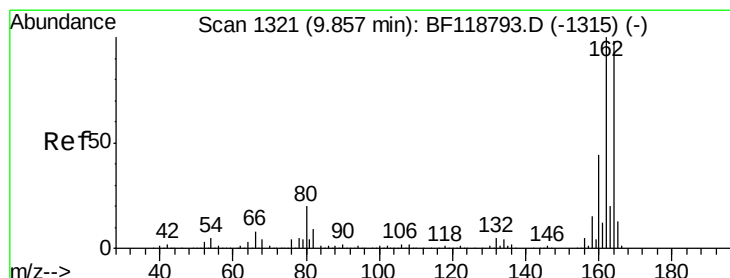
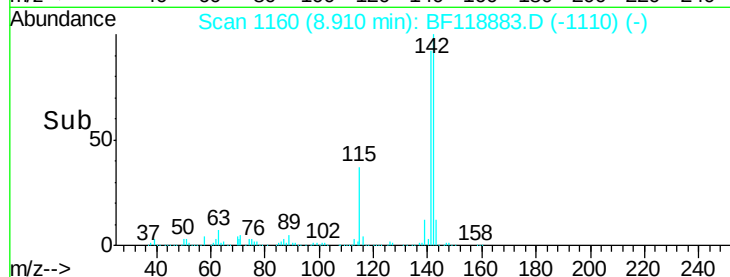
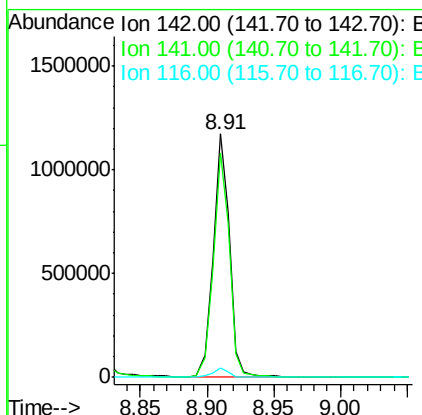
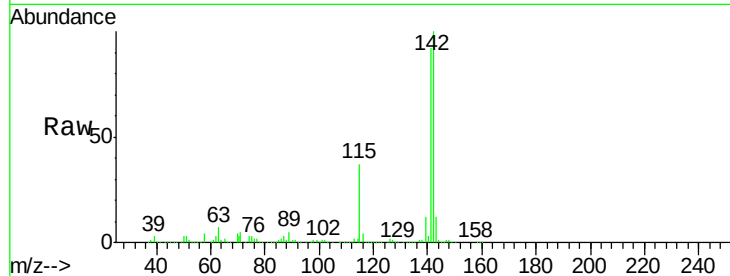
#38
1-Methylnaphthalene
Concen: 38.643 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.8	110.6
116	3.9	3.0	4.4

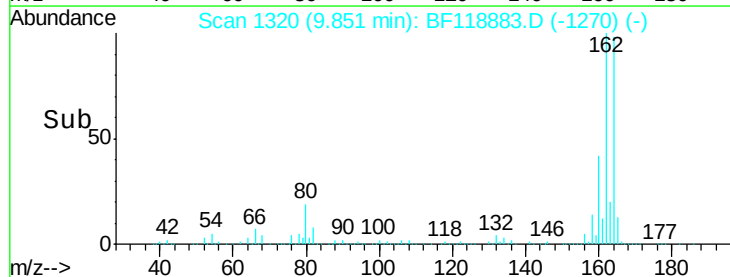
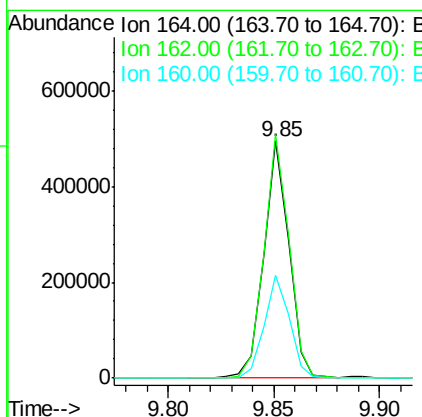
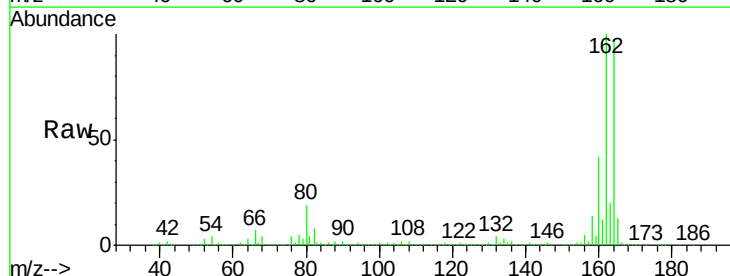
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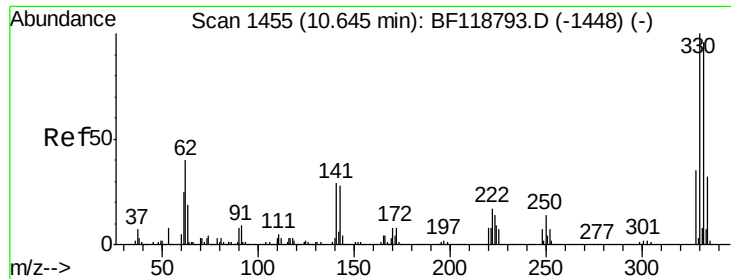
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.4	122.2
160	43.4	35.6	53.4





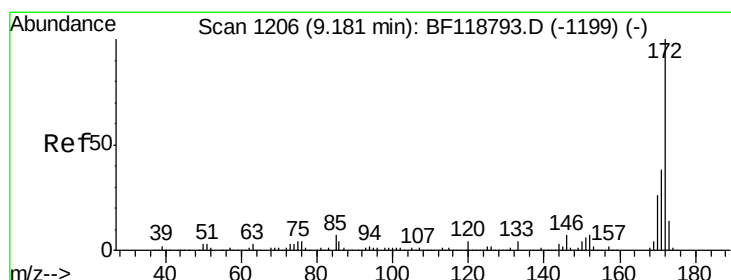
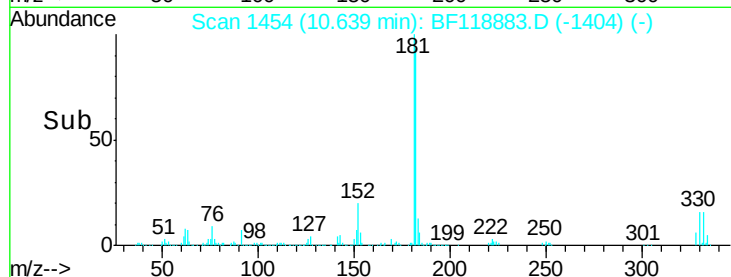
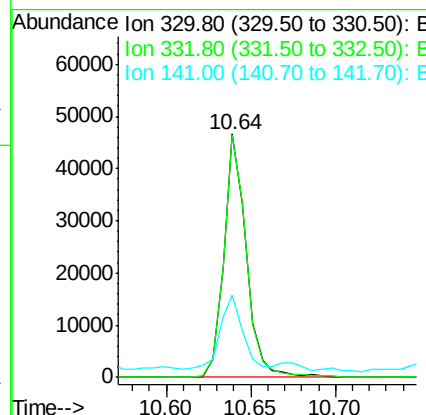
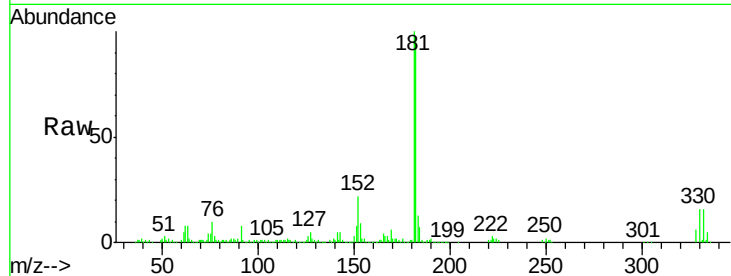
#42
 2,4,6-Tribromophenol
 Concen: 8.749 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Instrument :
 BNA_F
 ClientSampleId :
 TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.3	115.9
141	30.1	22.4	33.6

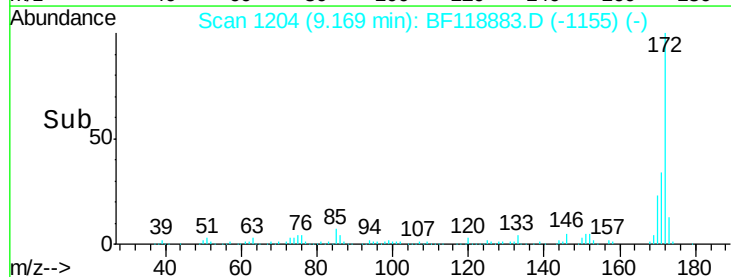
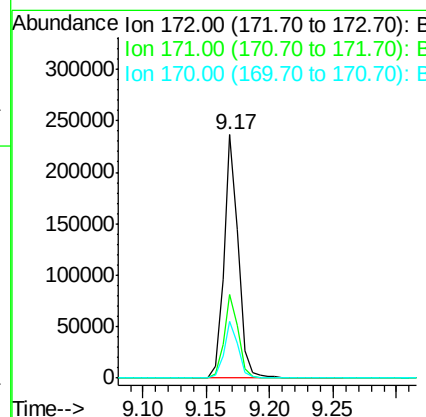
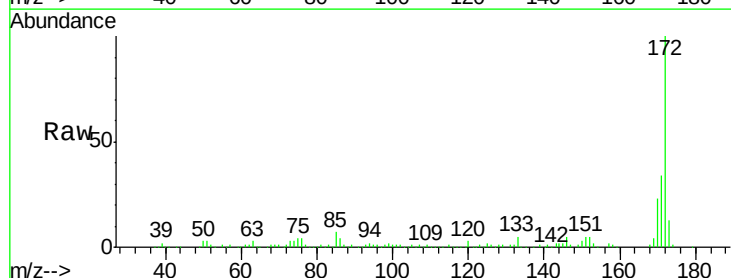
Manual Integrations
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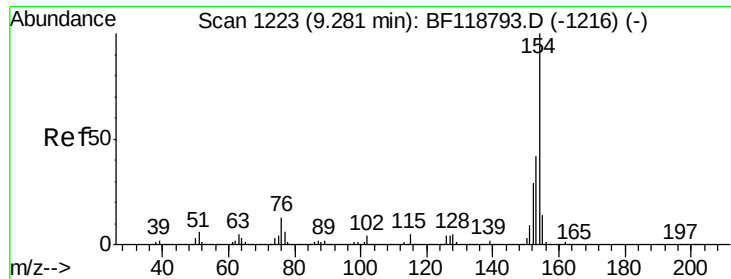
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#45
 2-Fluorobiphenyl
 Concen: 8.093 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	30.8	46.2
170	23.3	20.5	30.7





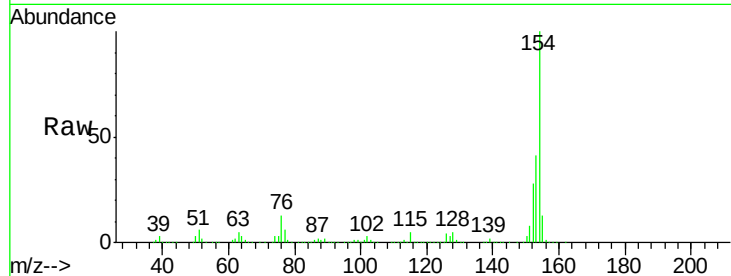
#46
1,1'-Biphenyl
Concen: 17.656 ng
RT: 9.27 min Scan# 1221
Delta R.T. -0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

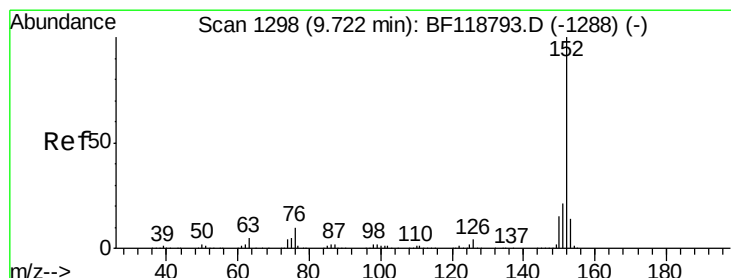
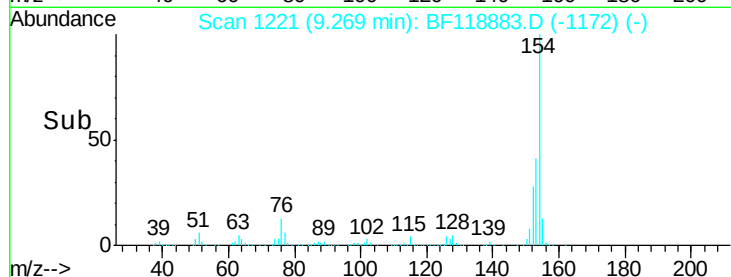
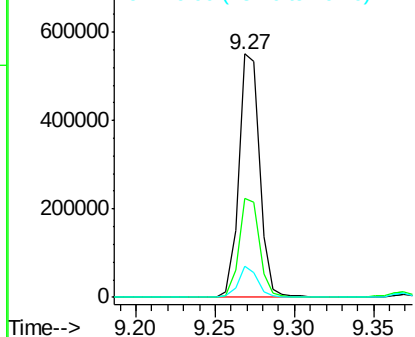
Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.9	22.4	62.4	
76	12.9	0.0	32.7	

Manual Integrations
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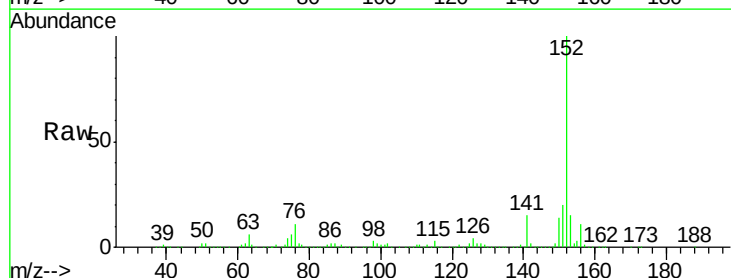


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1

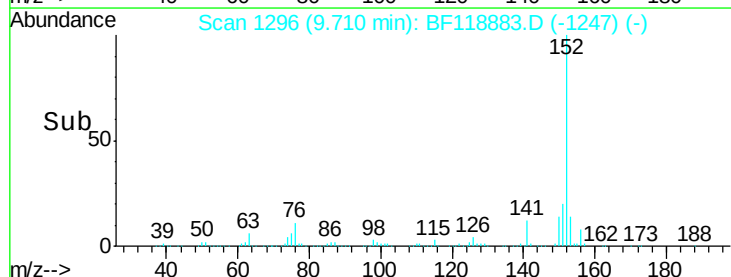
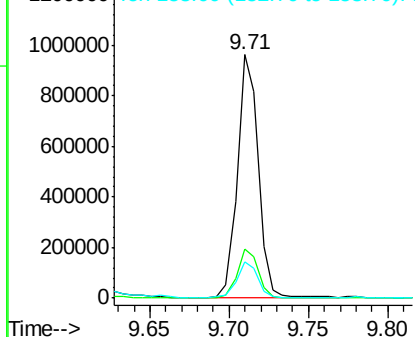


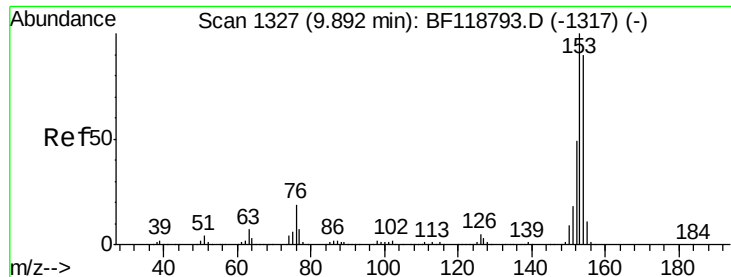
#49
Acenaphthylene
Concen: 25.723 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.1	17.1	25.7	
153	15.0	11.0	16.4	



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#52

Acenaphthene

Concen: 41.843 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

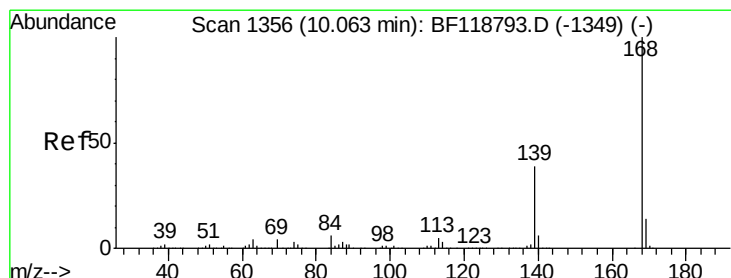
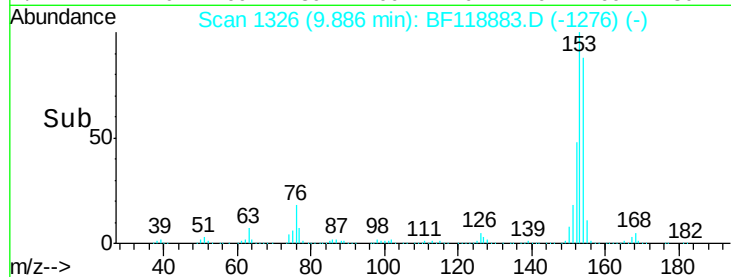
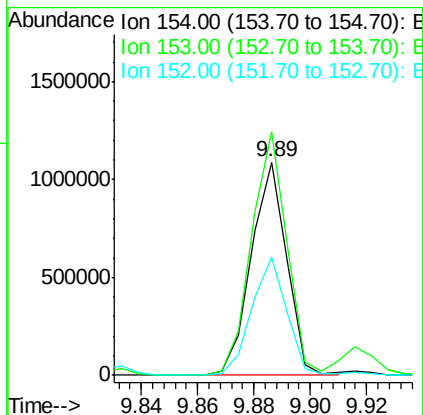
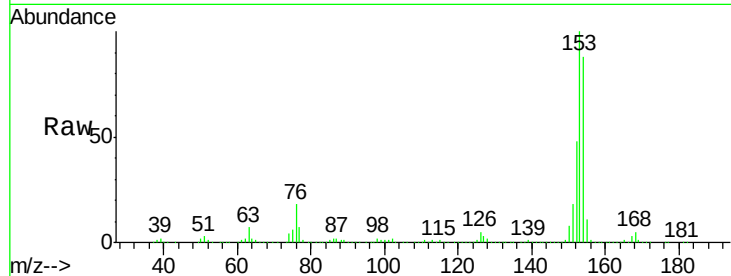
ClientSampleId :

TP9-EP1-2.5

Tot Ion:	154	Resp:	944173
Ion Ratio	Lower	Upper	
154	100		
153	114.1	89.4	134.0
152	55.2	43.6	65.4

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#55

Dibenzofuran

Concen: 46.992 ng

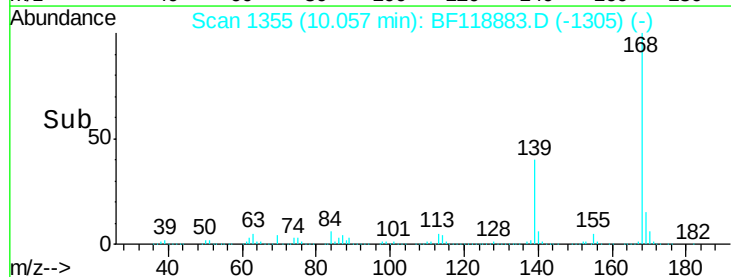
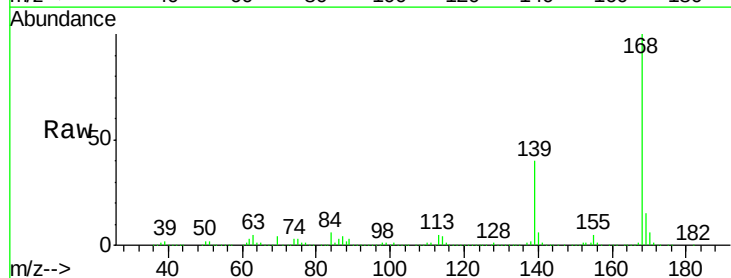
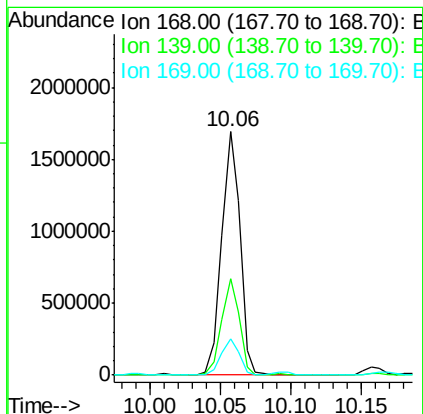
RT: 10.06 min Scan# 1355

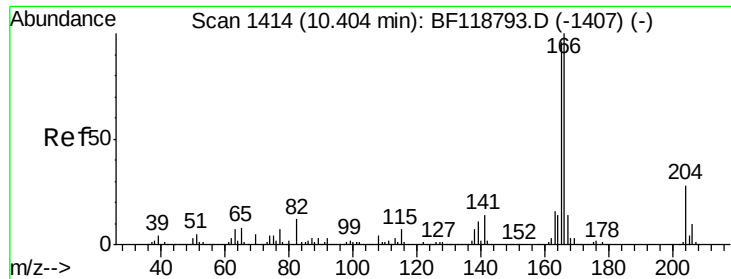
Delta R.T. -0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:	168	Resp:	1532427
Ion Ratio	Lower	Upper	
168	100		
139	39.6	31.6	47.4
169	14.7	11.4	17.2





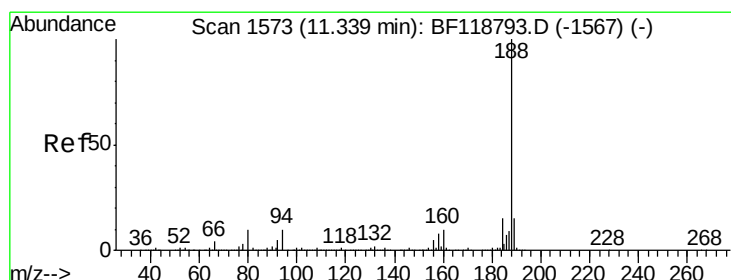
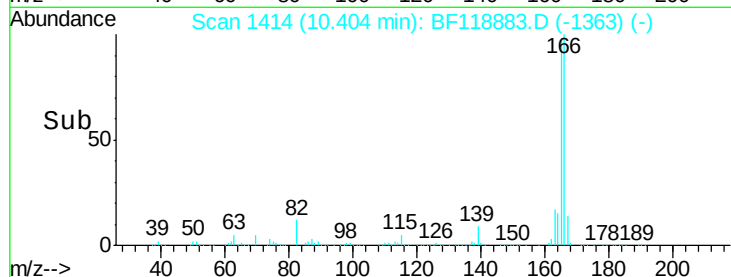
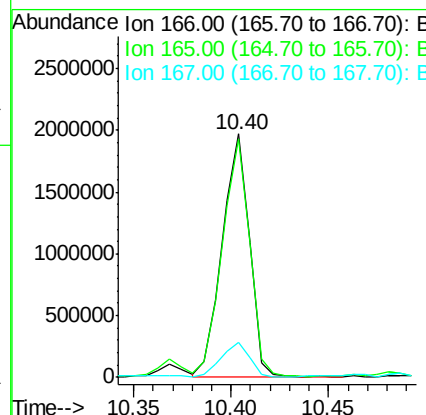
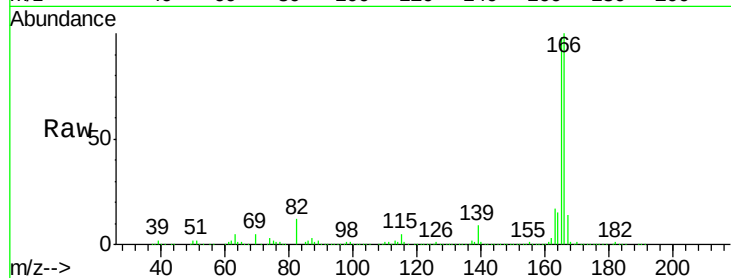
#58
 Fluorene
 Concen: 77.662 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Instrument :
 BNA_F
 ClientSampled :
 TP9-EP1-2.5

Tot Ion	Ion	Ratio	Lower	Upper
1905292	166	100		
	165	97.9	77.0	115.6
	167	14.3	11.1	16.7

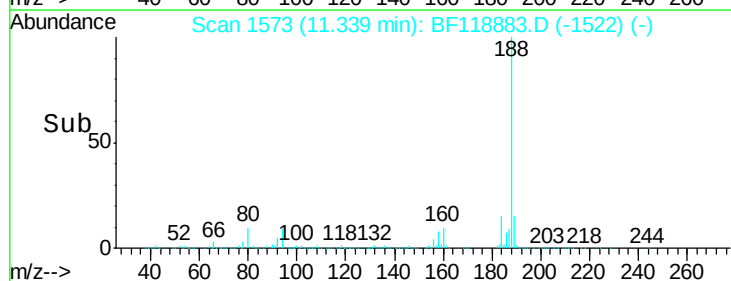
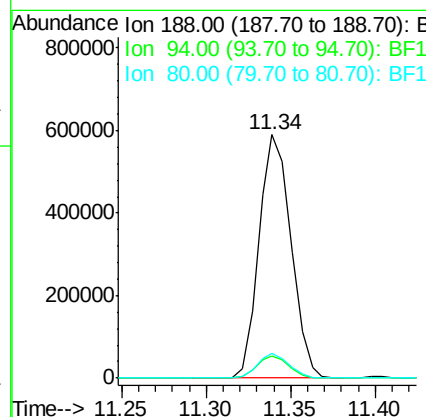
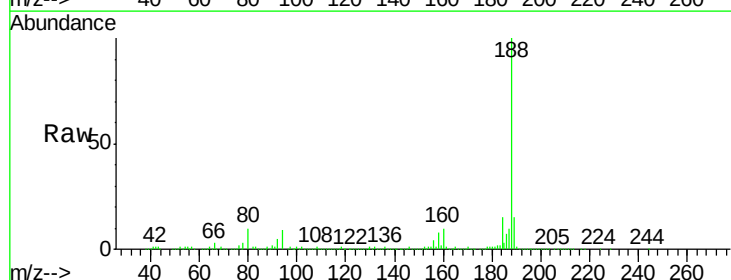
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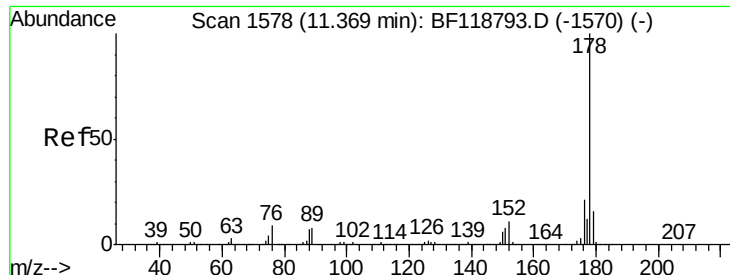
mohammad
 2/13/2020 10:29:03 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: BF118883.D
 Acq: 10 Feb 2020 22:12

Tgt Ion	Ion	Ratio	Lower	Upper
775343	188	100		
	94	9.1	7.9	11.9
	80	9.9	8.4	12.6





#71

Phenanthrene

Concen: 161.951 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

ClientSampleId :

TP9-EP1-2.5

Tot Ion:178 Resp: 6178106

Ion Ratio Lower Upper

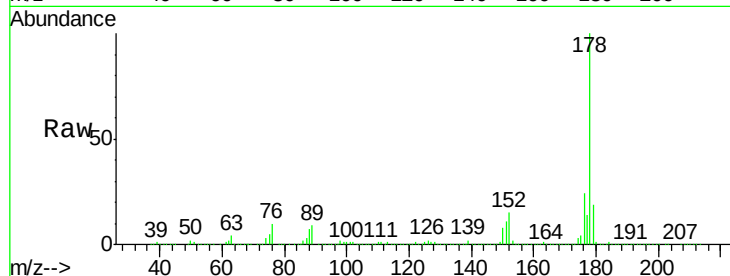
178 100

176 23.6 16.6 24.8

179 18.7 13.2 19.8

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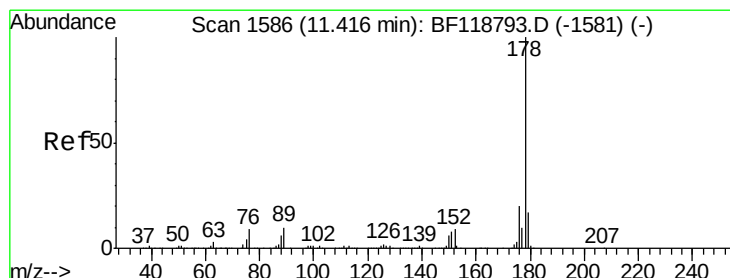
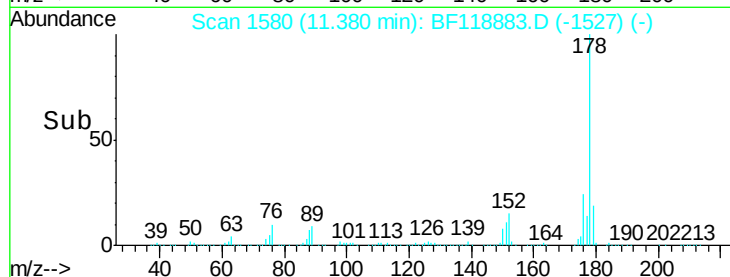
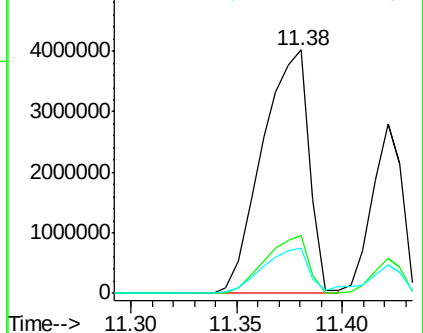
mohammad
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 73.661 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:178 Resp: 2795467

Ion Ratio Lower Upper

178 100

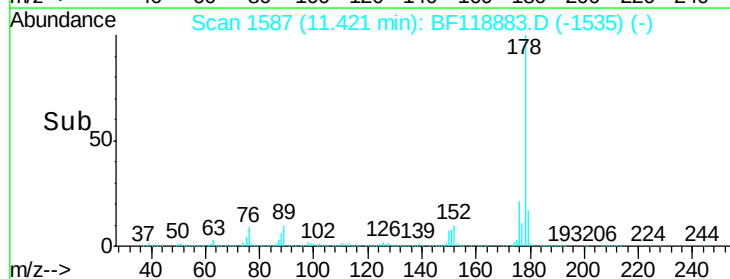
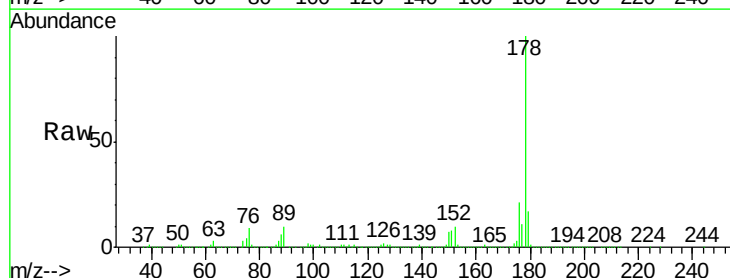
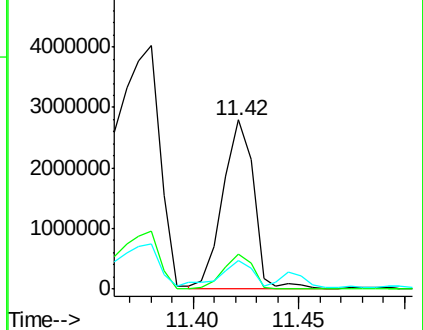
176 21.0 16.2 24.2

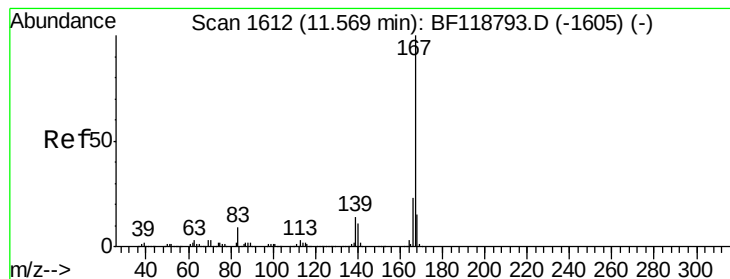
179 17.0 13.4 20.2

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: 35.024 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.00 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

ClientSampleId :

TP9-EP1-2.5

Tot Ion:167 Resp: 1166485

Ion Ratio Lower Upper

167 100

166 22.5 18.4 27.6

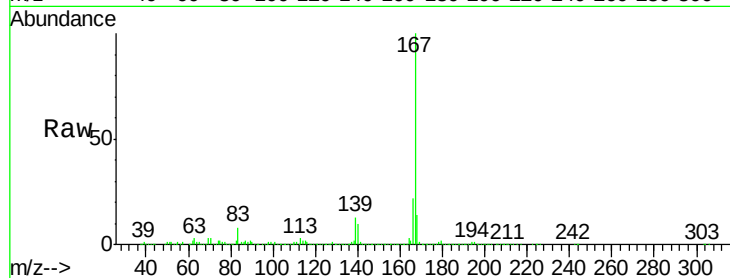
139 13.3 11.1 16.7

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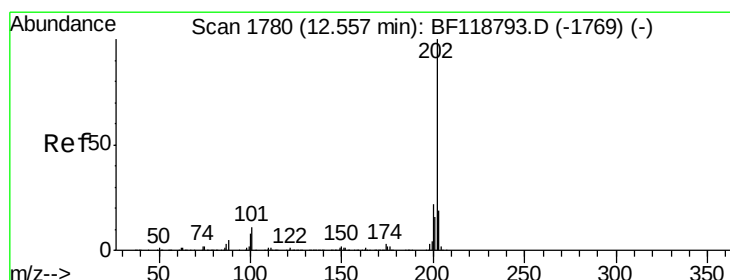
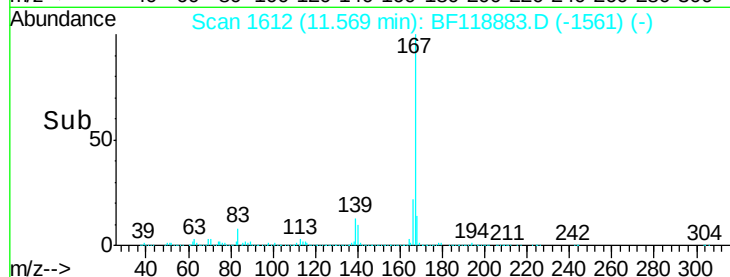
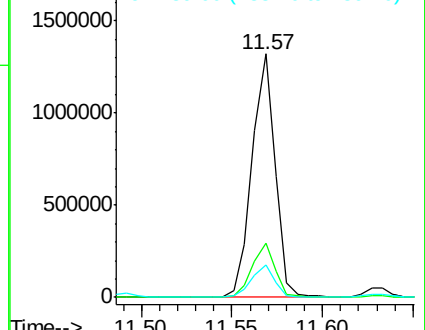
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 134.928 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

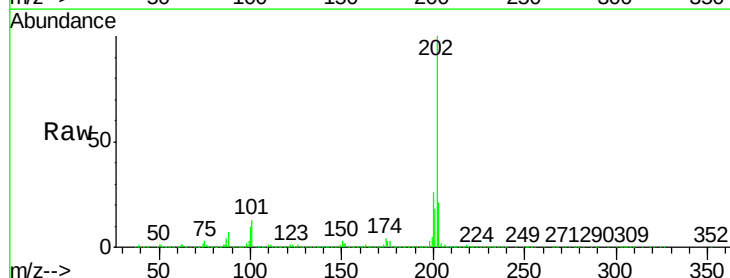
Tgt Ion:202 Resp: 5619852

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.0

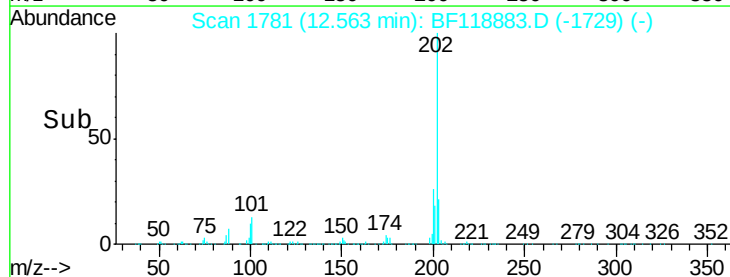
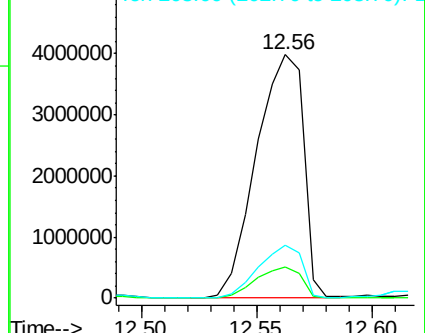
203 21.5 0.0 38.7

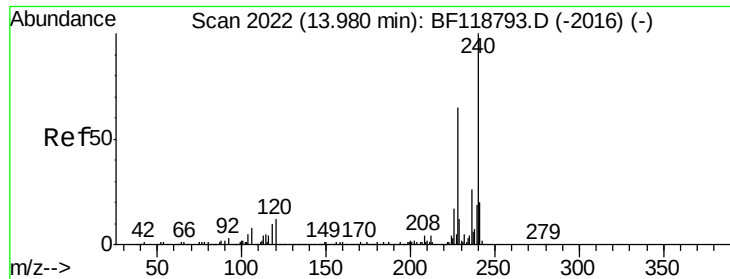


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





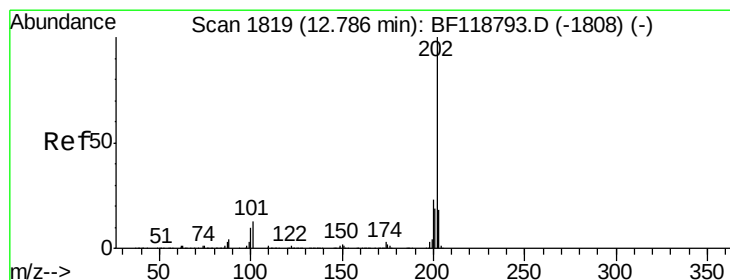
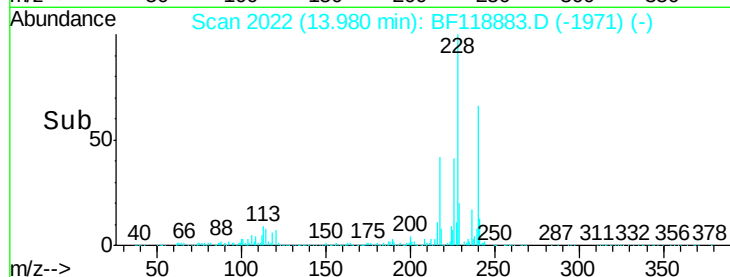
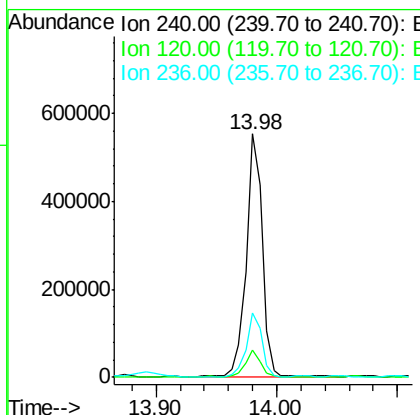
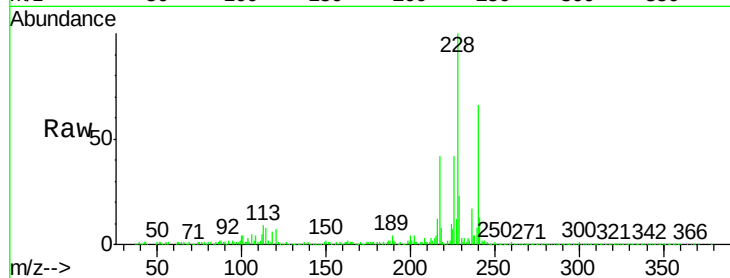
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.00 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Resp	Lower	Upper
240	100	514497		
120	11.3	9.4	14.0	
236	26.3	21.0	31.6	

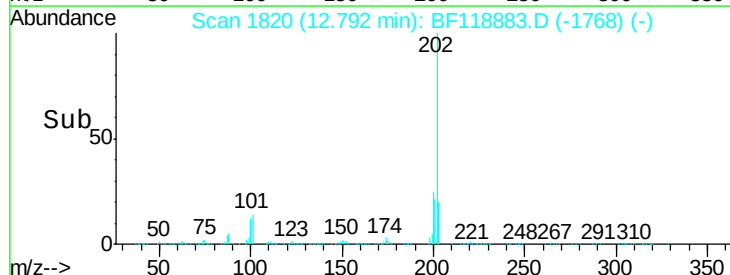
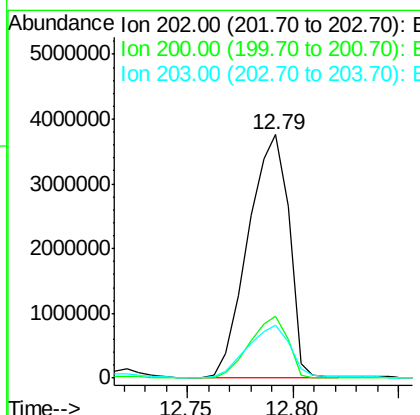
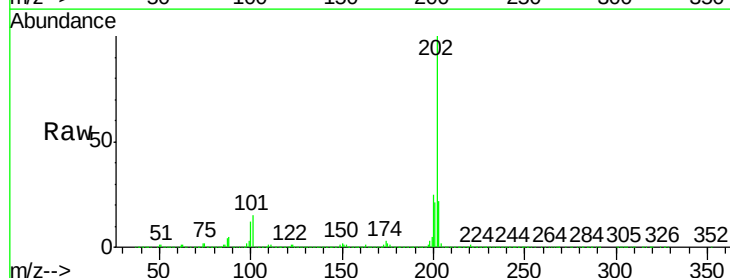
Manual Integrations
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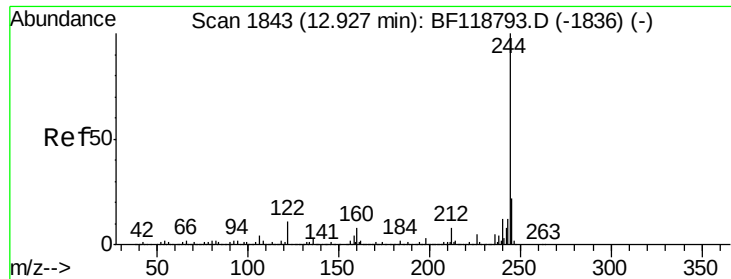
mohammad
2/13/2020 10:29:03 AM



#78
Pyrene
Concen: 142.447 ng
RT: 12.79 min Scan# 1820
Delta R.T. 0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	5027794		
200	25.4	18.2	27.2	
203	21.6	14.8	22.2	





#79

Terphenyl-d14

Concen: 11.977 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

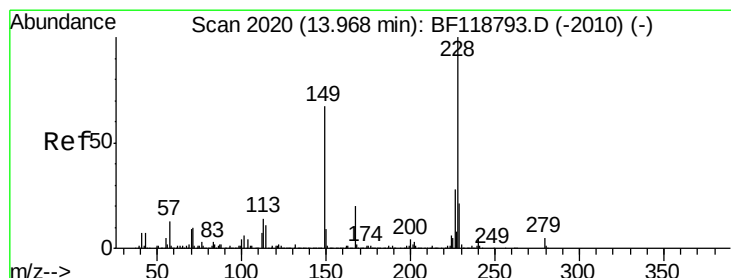
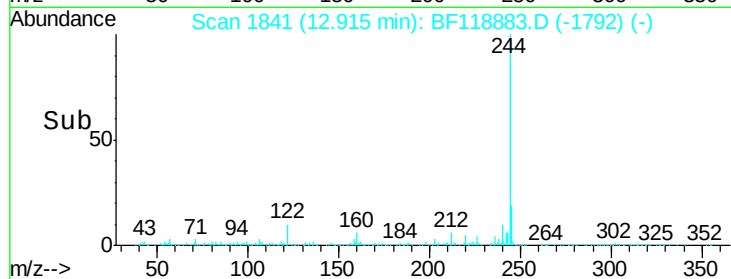
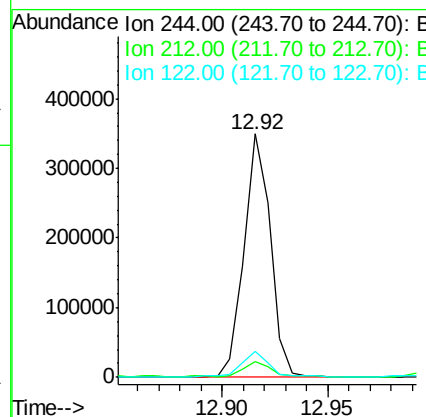
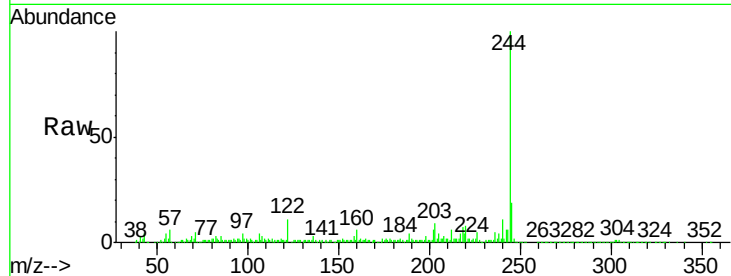
ClientSampleId :

TP9-EP1-2.5

Tot Ion:	244	Resp:	300000
Ion Ratio	Lower	Upper	
244	100		
212	6.4	6.5	9.7#
122	10.6	8.9	13.3

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#81

Benzo(a)anthracene

Concen: 73.096 ng m

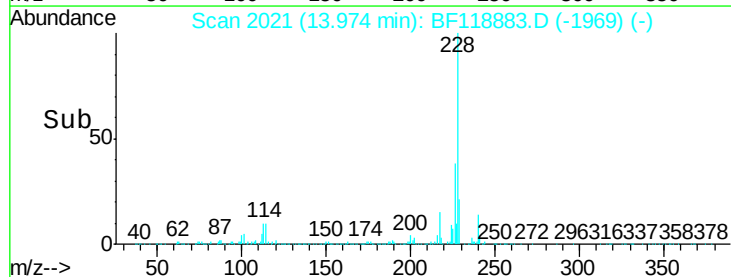
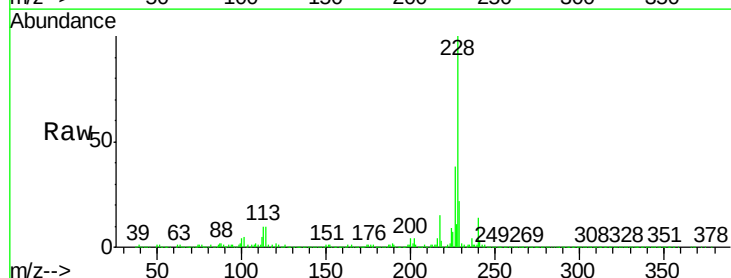
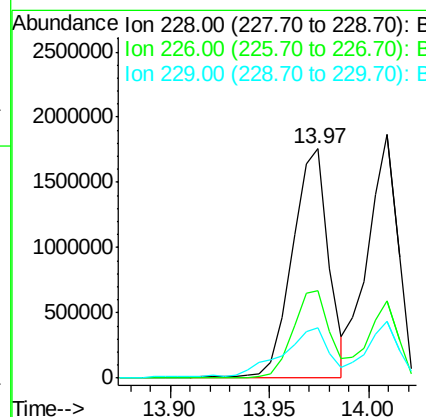
RT: 13.97 min Scan# 2021

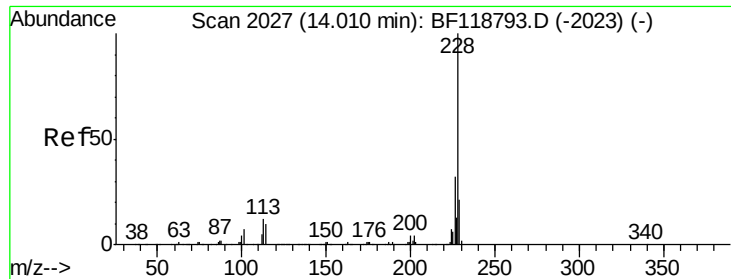
Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:	228	Resp:	2237881
Ion Ratio	Lower	Upper	
228	100		
226	38.0	22.7	34.1#
229	21.8	16.6	25.0





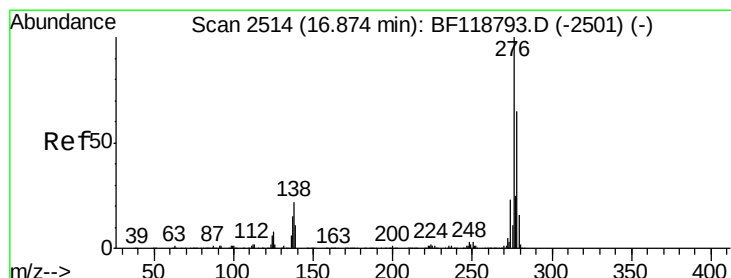
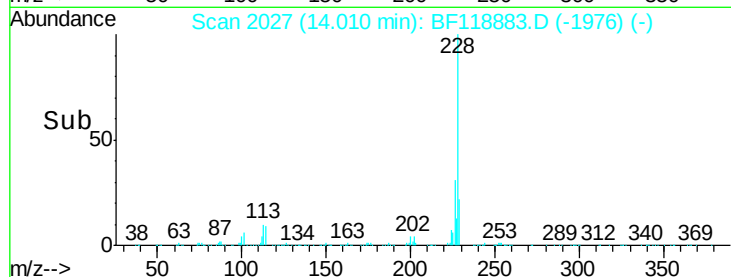
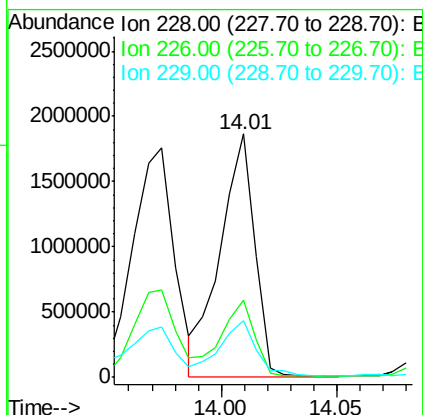
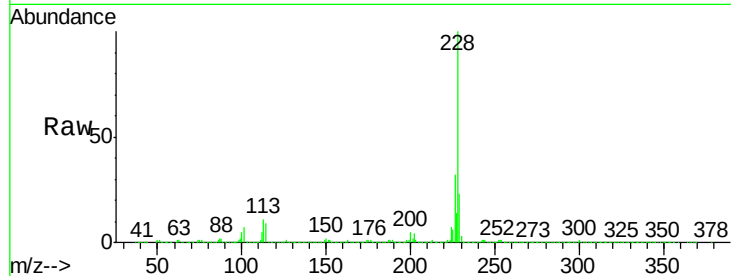
#83
Chrysene
Concen: 62.899 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.4	38.0
229	23.2	16.9	25.3

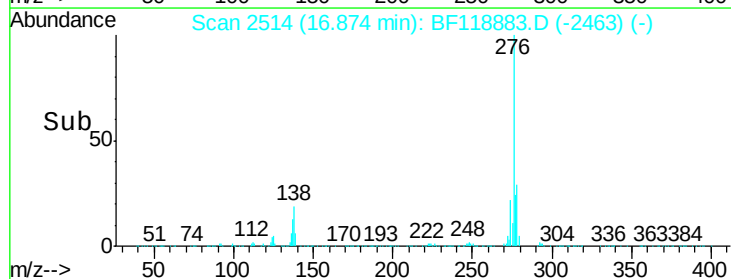
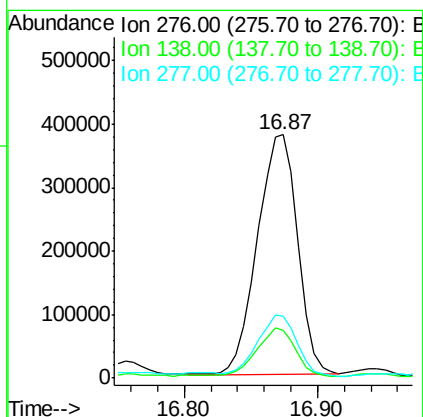
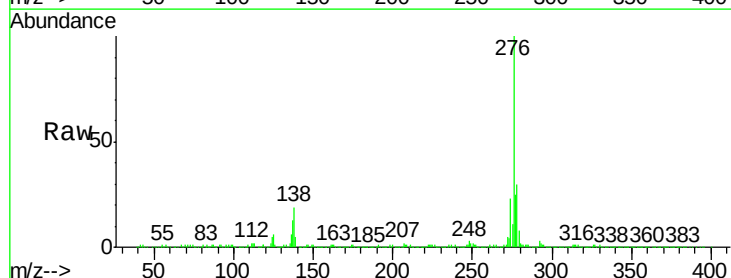
Manual Integrations
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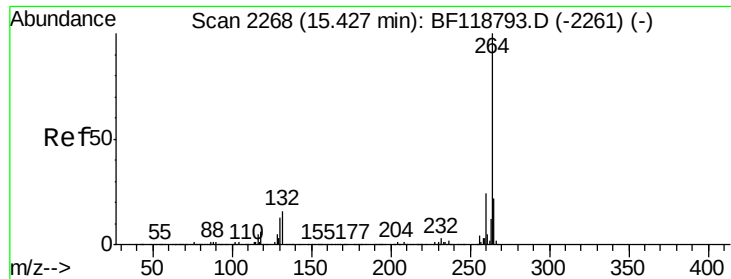
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 25.573 ng
RT: 16.87 min Scan# 2514
Delta R.T. -0.00 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.6	18.3	27.5
277	24.8	20.2	30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2269

Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

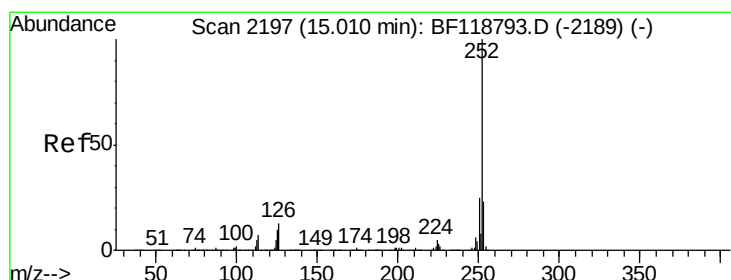
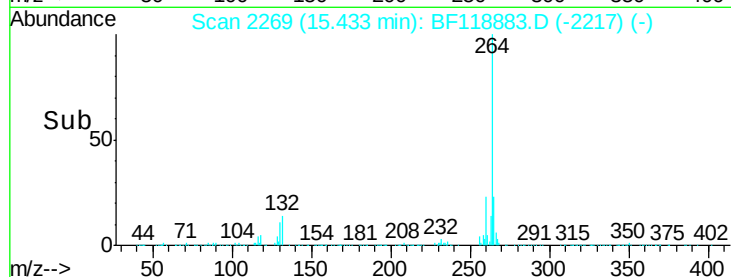
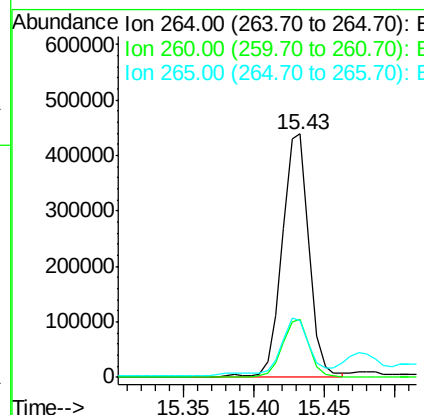
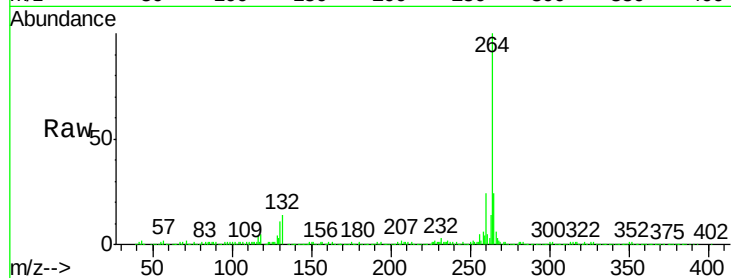
ClientSampleId :

TP9-EP1-2.5

Tot Ion:	264	Resp:	575981
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.1	28.7
265	23.6	17.2	25.8

Manual Integrations
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mohammad
2/13/2020 10:29:03 AM



#88

Benzo(b)fluoranthene

Concen: 65.896 ng m

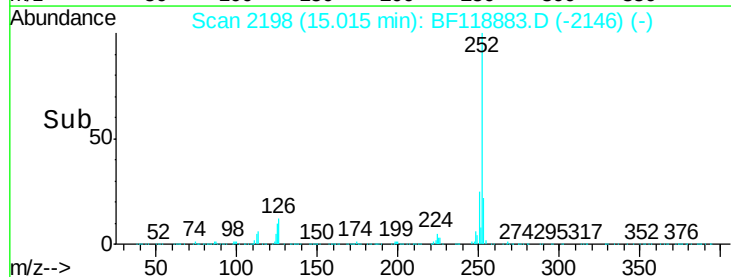
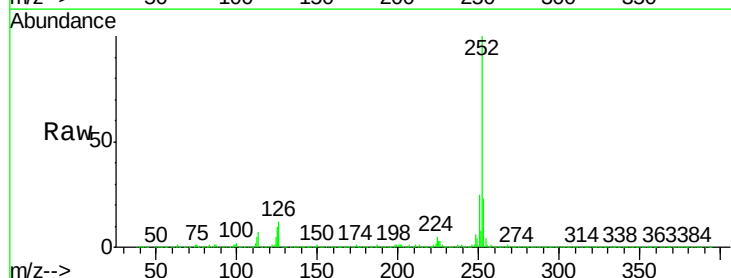
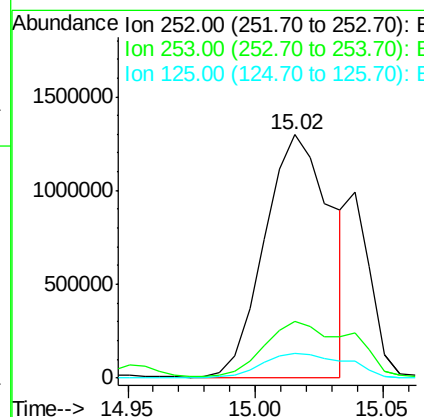
RT: 15.02 min Scan# 2198

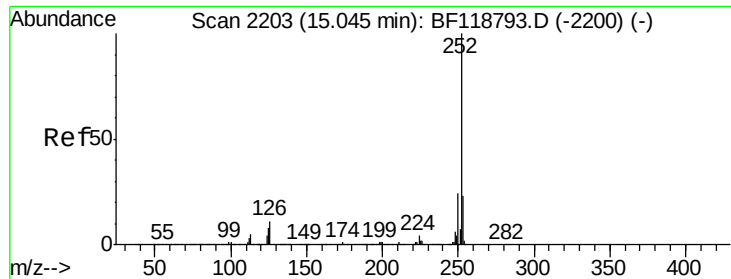
Delta R.T. 0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:	252	Resp:	2355173
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.4	27.6
125	10.4	8.1	12.1





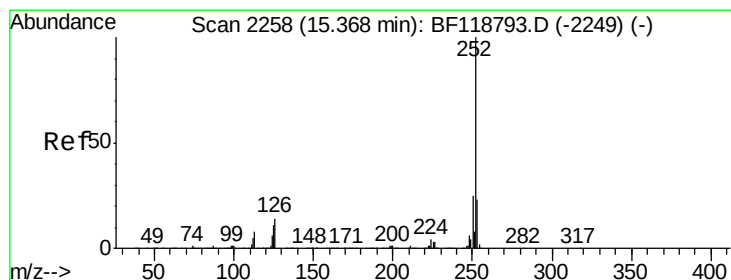
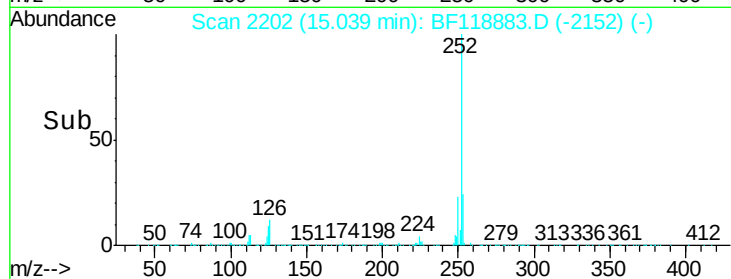
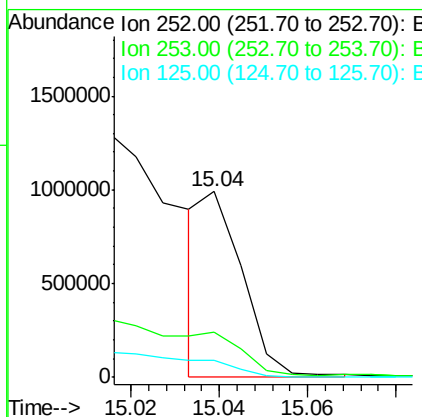
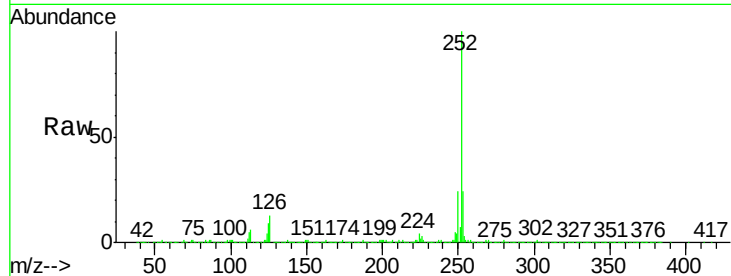
#89
Benzo(k)fluoranthene
Concen: 19.941 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Instrument :
BNA_F
ClientSampleId :
TP9-EP1-2.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.4
125	8.9	7.0	10.6

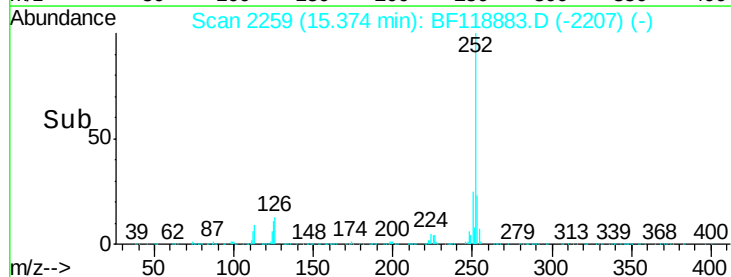
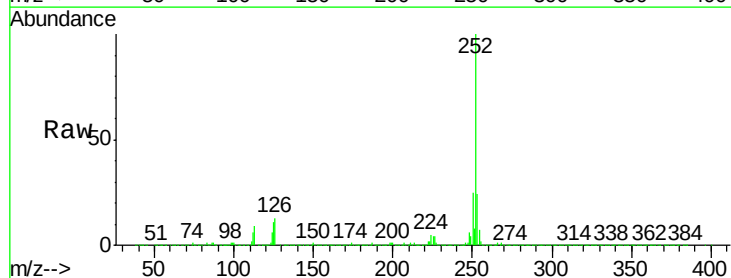
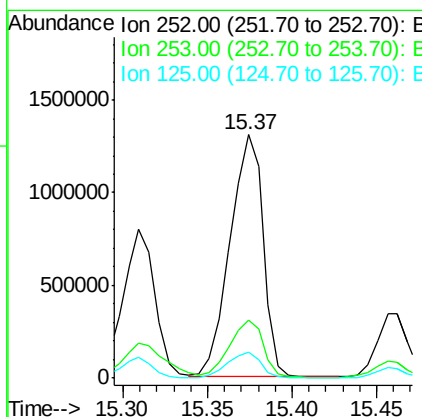
Manual Integrations
APPROVED

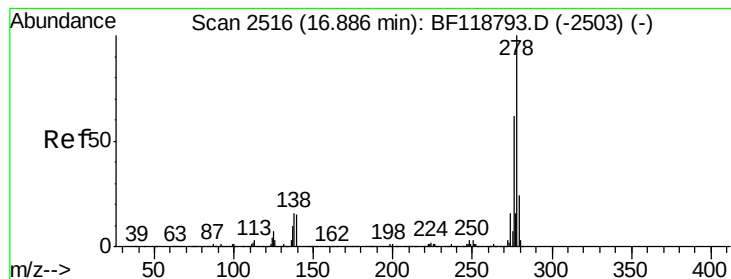
mohammad
2/13/2020 10:29:03 AM



#90
Benzo(a)pyrene
Concen: 58.252 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF118883.D
Acq: 10 Feb 2020 22:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	10.8	8.7	13.1





#91

Dibenzo(a,h)anthracene

Concen: 8.323 ng

RT: 16.87 min Scan# 2514

Delta R.T. -0.01 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Instrument :

BNA_F

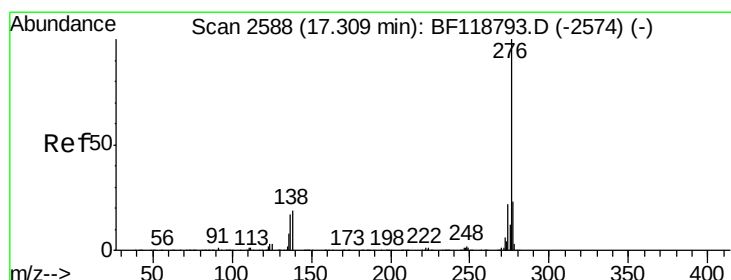
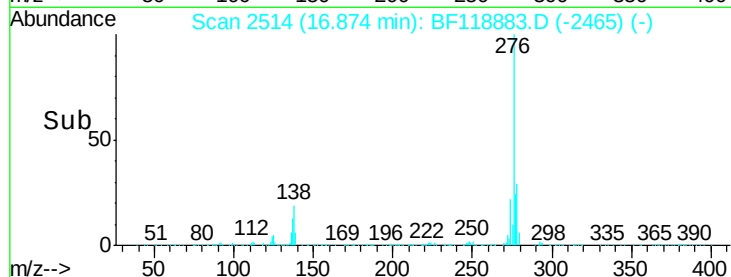
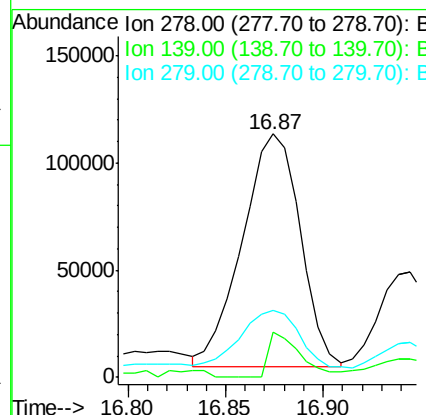
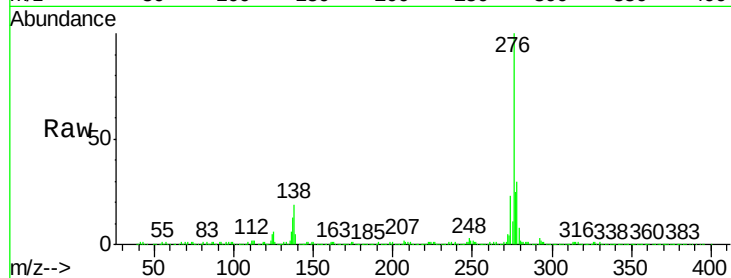
ClientSampleId :

TP9-EP1-2.5

Tot Ion:278	Resp:	225993
Ion Ratio	Lower	Upper
278	100	
139	18.5	12.3 18.5#
279	27.7	19.1 28.7

Manual Integrations
APPROVED

mohammad
2/13/2020 10:29:03 AM



#92

Benzo(g,h,i)perylene

Concen: 26.663 ng

RT: 17.31 min Scan# 2588

Delta R.T. -0.00 min

Lab File: BF118883.D

Acq: 10 Feb 2020 22:12

Tgt Ion:276	Resp:	696267
Ion Ratio	Lower	Upper
276	100	
277	24.3	18.7 28.1
138	18.7	15.4 23.2

