

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
 Data File : BF121607.D
 Acq On : 17 Sep 2020 20:27
 Operator : JU/CG
 Sample : L4038-09 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B36-091620-10-15

Manual Integrations
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 9/21/2020 10:32:34 AM

Quant Time: Sep 18 09:59:31 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 10 16:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	187459	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	708882	20.00	ng	-0.01
39) Acenaphthene-d10	9.86	164	341413	20.00	ng	-0.01
64) Phenanthrene-d10	11.34	188	534606	20.00	ng	0.00
76) Chrysene-d12	13.99	240	338223	20.00	ng	0.00
86) Perylene-d12	15.44	264	375506	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	255905	20.29	ng	0.00
7) Phenol-d6	6.46	99	323649	19.56	ng	0.00
23) Nitrobenzene-d5	7.38	82	208018	15.76	ng	-0.02
42) 2,4,6-Tribromophenol	10.64	330	70741	16.67	ng	-0.01
45) 2-Fluorobiphenyl	9.18	172	390700	17.33	ng	-0.01
79) Terphenyl-d14	12.93	244	265540	15.91	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.13	128	314299	8.399	ng	98
37) 2-Methylnaphthalene	8.82	142	65860	2.686	ng	98
38) 1-Methylnaphthalene	8.92	142	52849	2.316	ng	98
49) Acenaphthylene	9.72	152	85204	2.575	ng	99
52) Acenaphthene	9.89	154	179491	8.587	ng	99
55) Dibenzofuran	10.06	168	157275	5.343	ng	97
58) Fluorene	10.40	166	180644	8.025	ng	99
71) Phenanthrene	11.37	178	1332918	45.761	ng	99
72) Anthracene	11.42	178	447982	14.904	ng	98
73) Carbazole	11.57	167	143981	5.308	ng	99
75) Fluoranthene	12.56	202	1410759	45.372	ng	96
78) Pyrene	12.79	202	1328693	53.768	ng	99
81) Benzo(a)anthracene	13.97	228	639876	29.904	ng	96
83) Chrysene	14.01	228	555072	25.617	ng	98
87) Indeno(1,2,3-cd)pyrene	16.87	276	394464m	16.131	ng	
88) Benzo(b)fluoranthene	15.02	252	752175m	29.964	ng	
89) Benzo(k)fluoranthene	15.04	252	258002m	11.223	ng	
90) Benzo(a)pyrene	15.38	252	629744	29.512	ng	98
91) Dibenzo(a,h)anthracene	16.89	278	94015	4.618	ng	92
92) Benzo(a,h,i)perylene	17.31	276	358499	17.916	ng	98

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

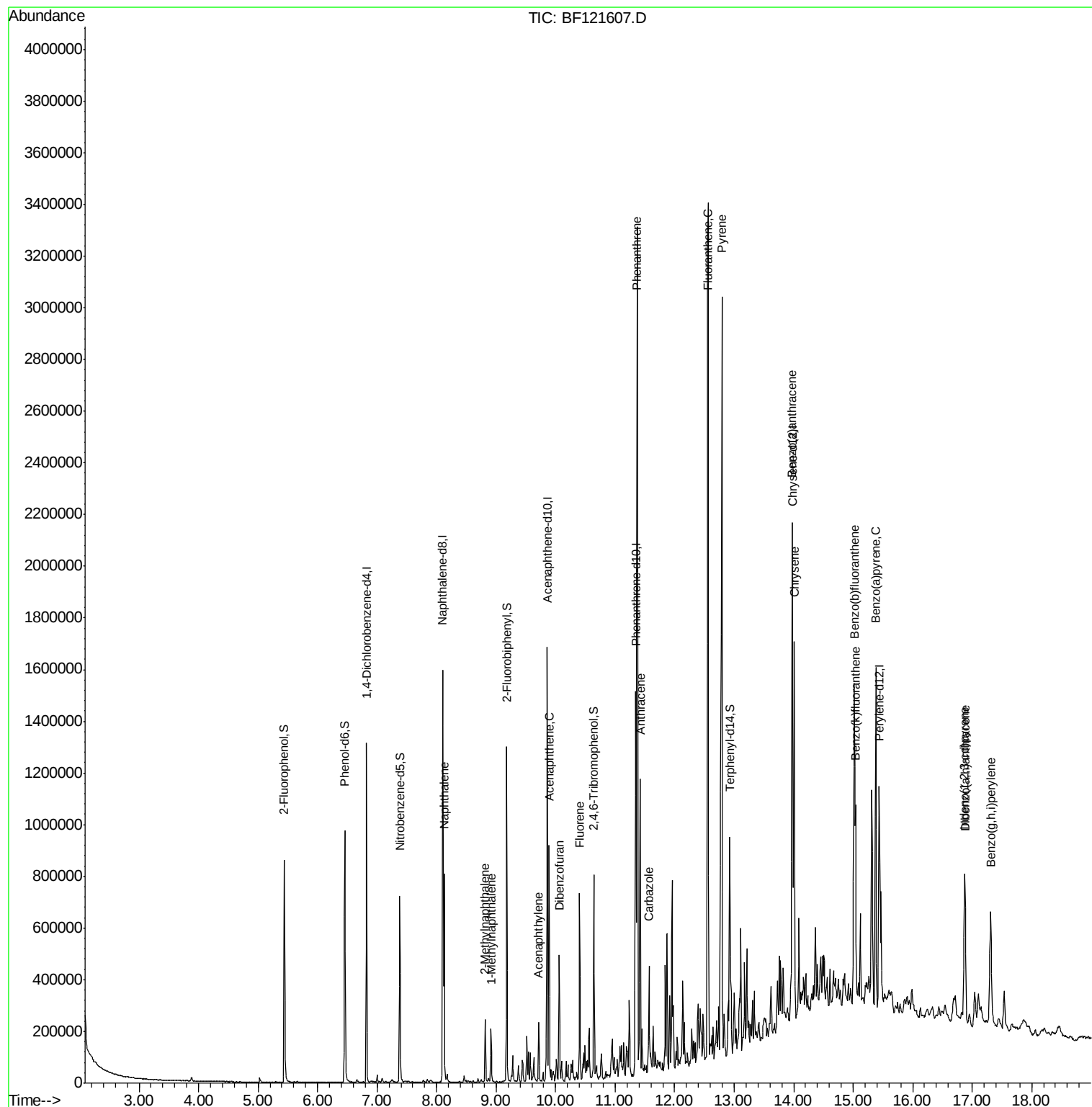
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
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Misc :
ALS Vial : 11 Sample Multiplier: 1

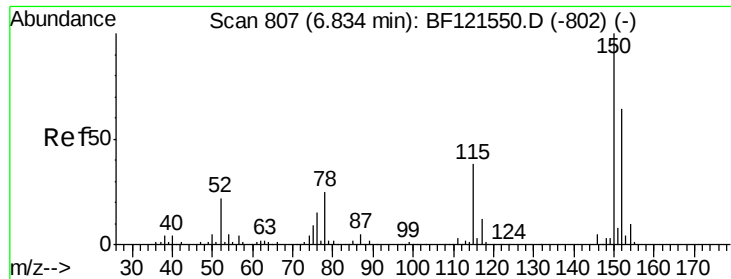
Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

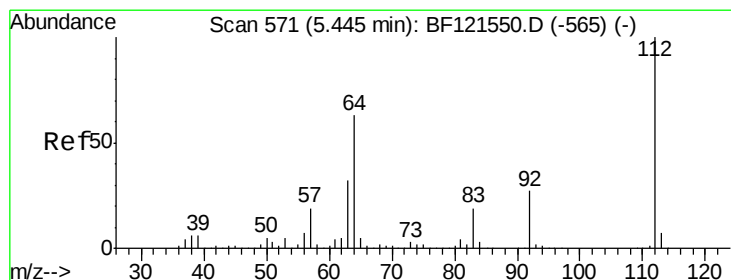
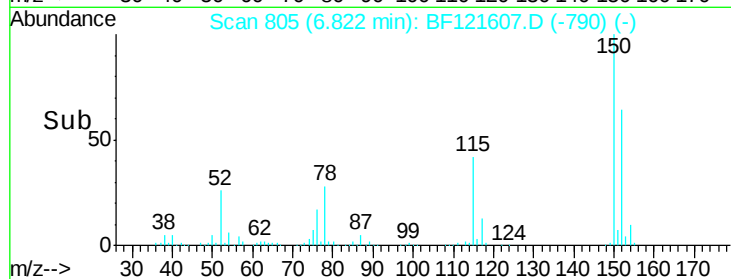
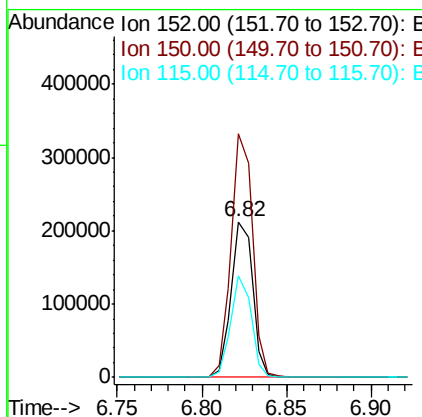
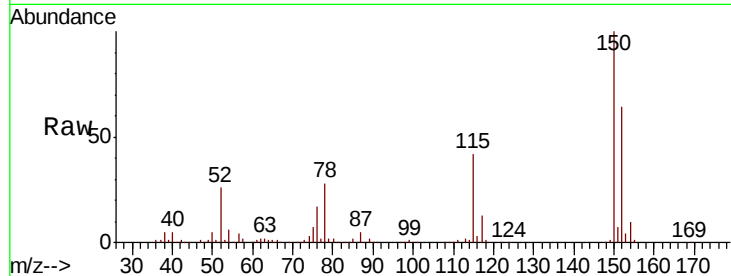
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	125.8	188.6
115	65.5	47.8	71.8

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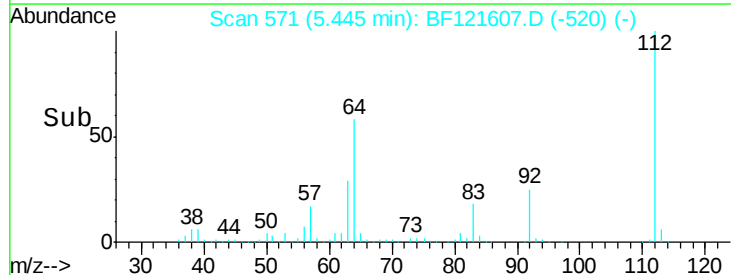
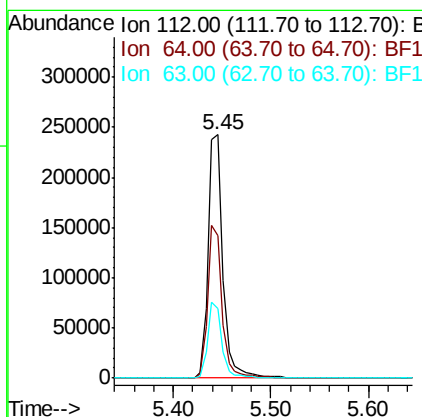
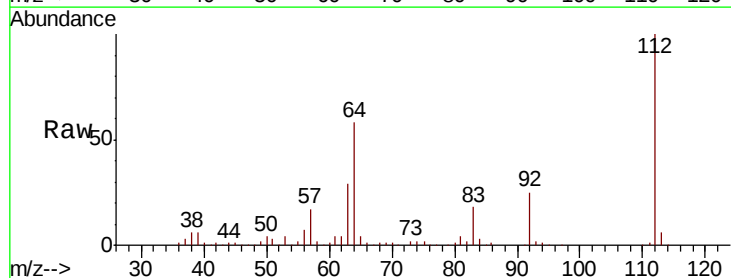
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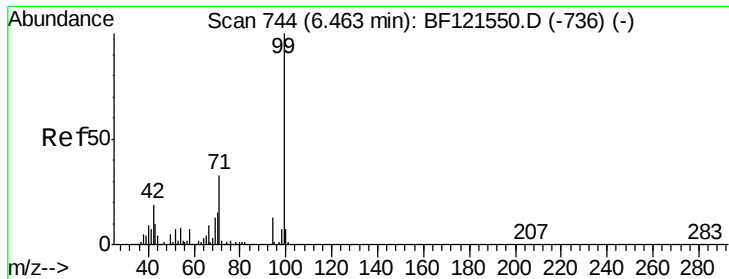


#5

2-Fluorophenol
Concen: 20.287 ng
RT: 5.45 min Scan# 571
Delta R.T. -0.00 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	50.3	75.5
63	28.6	25.6	38.4





#7

Phenol-d6

Concen: 19.557 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Instrument :

BNA_F

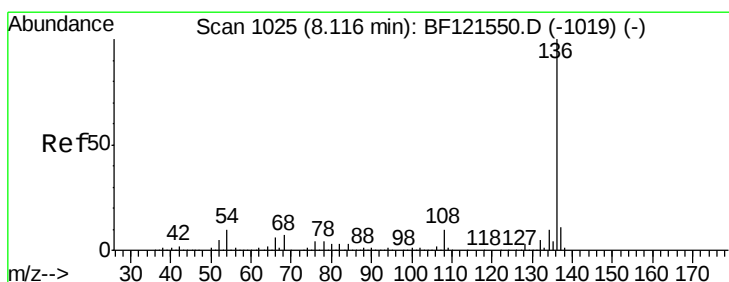
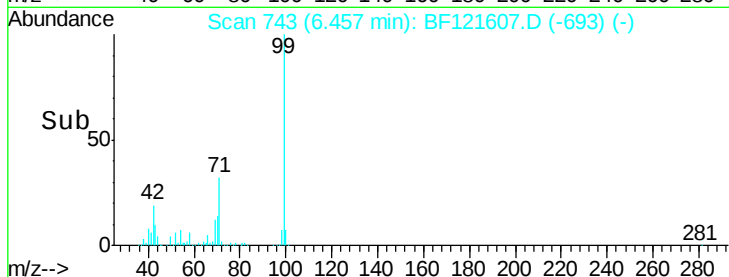
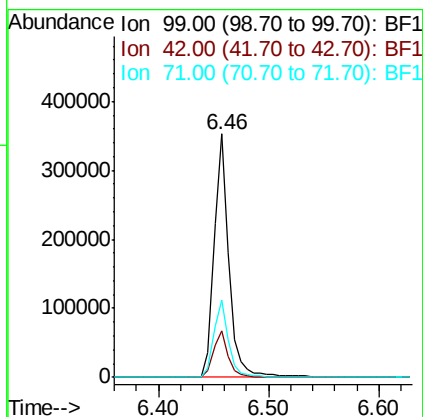
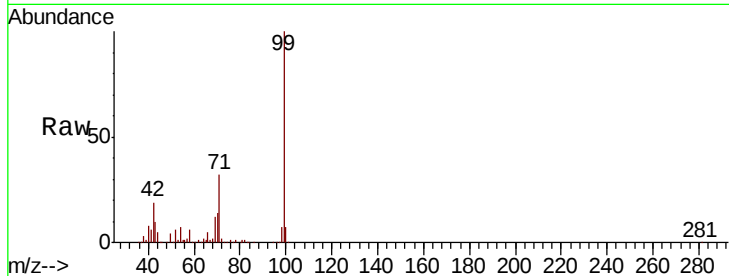
ClientSampleId :

PAV-B36-091620-10-15

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		323649		
42	19.1	15.5	23.3		
71	31.8	26.1	39.1		

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#21

Naphthalene-d8

Concen: 20.000 ng

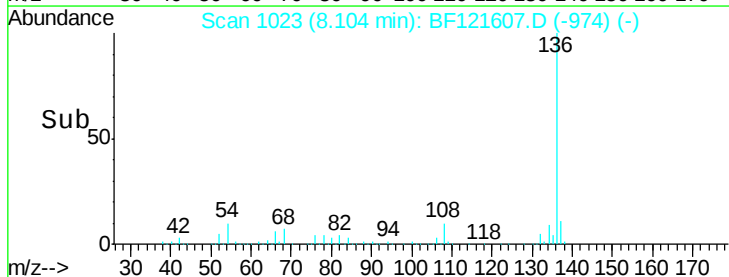
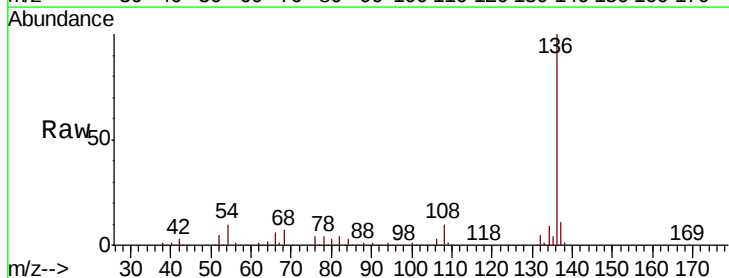
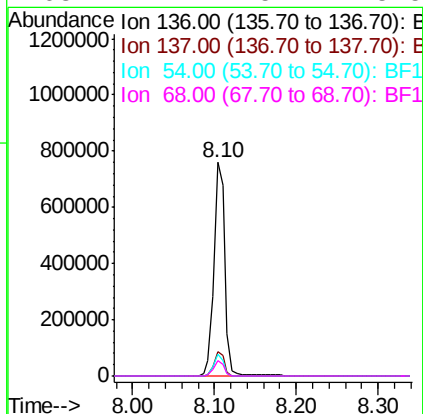
RT: 8.10 min Scan# 1023

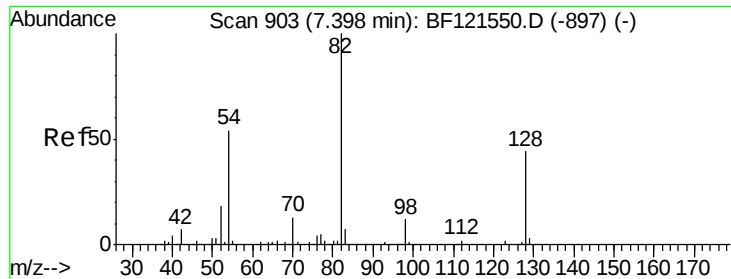
Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		708882		
137	11.3	9.0	13.6		
54	10.0	7.6	11.4		
68	7.2	5.7	8.5		





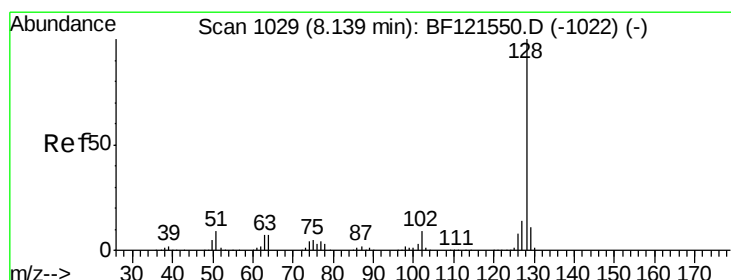
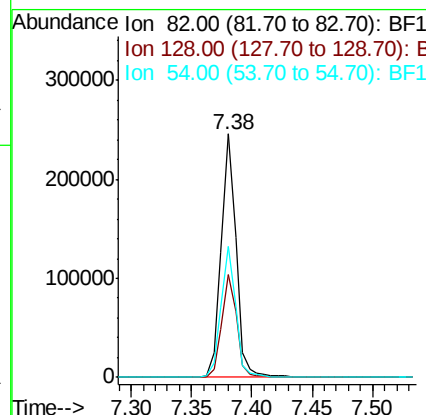
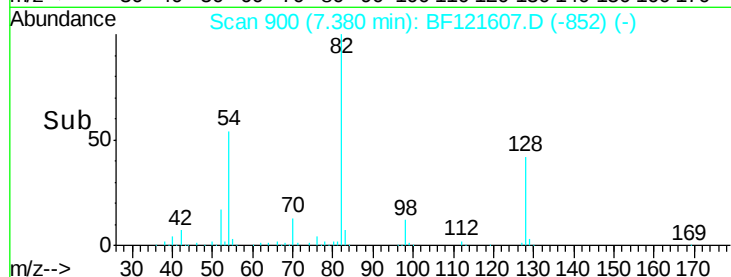
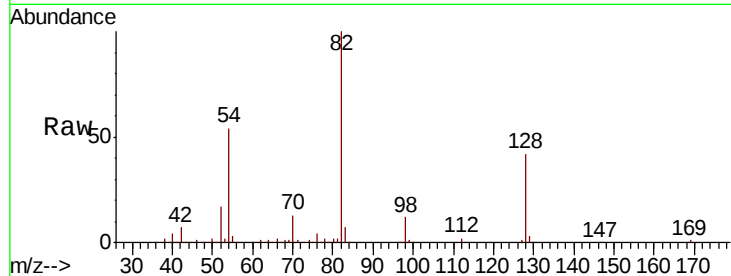
#23
 Nitrobenzene-d5
 Concen: 15.756 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.02 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B36-091620-10-15

Tot Ion	82	Resp	208018
Ion	Ratio	Lower	Upper
82	100		
128	42.2	35.1	52.7
54	53.9	43.0	64.6

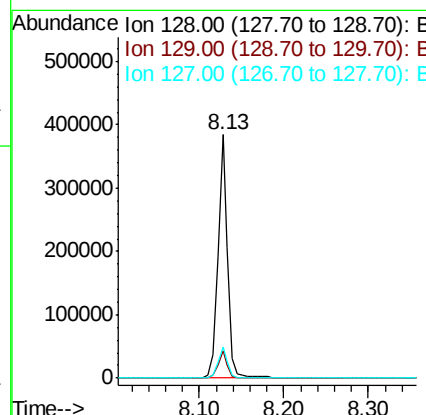
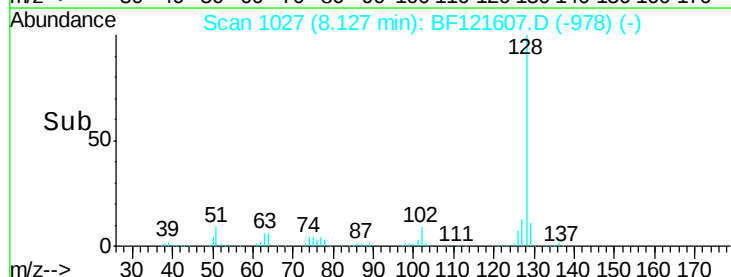
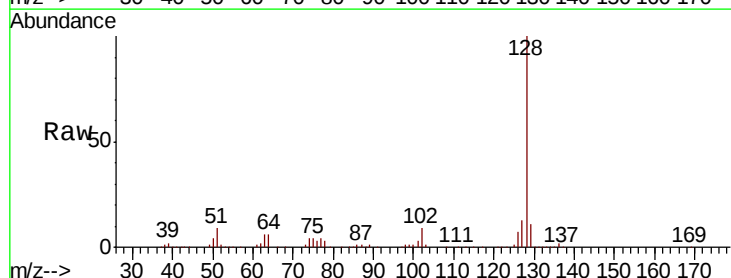
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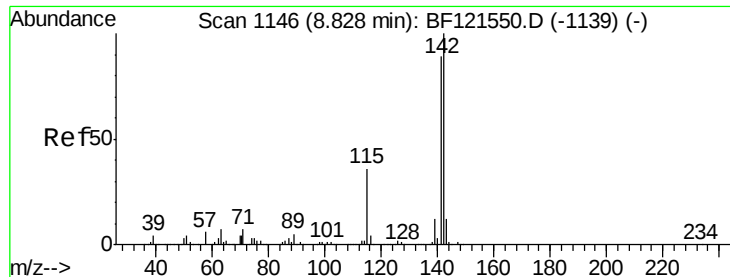
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#31
 Naphthalene
 Concen: 8.399 ng
 RT: 8.13 min Scan# 1027
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Tgt Ion	128	Resp	314299
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	12.7	11.0	16.6





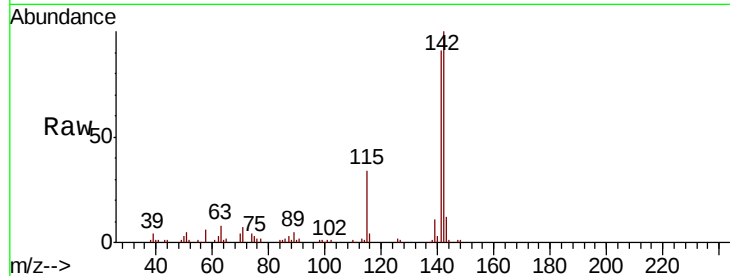
#37
2-Methylnaphthalene
Concen: 2.686 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

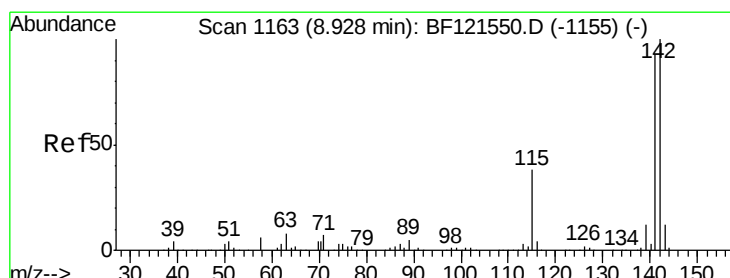
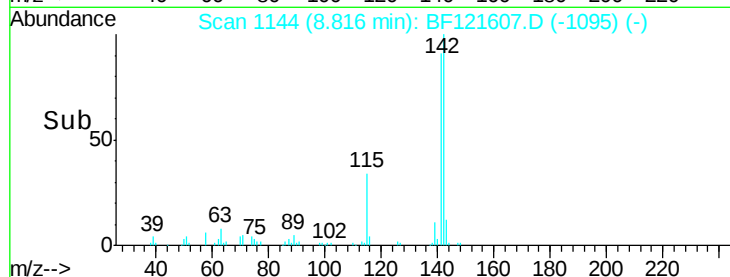
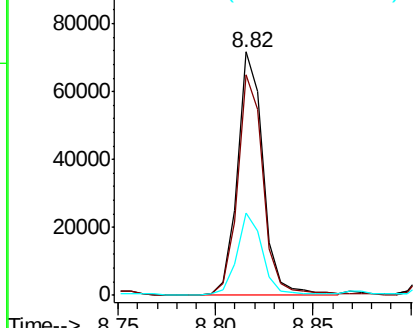
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.5	107.3
115	34.0	28.7	43.1

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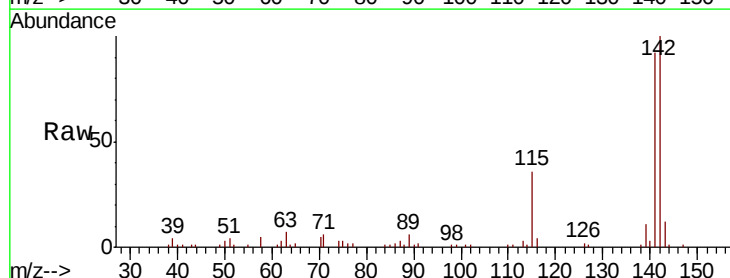


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

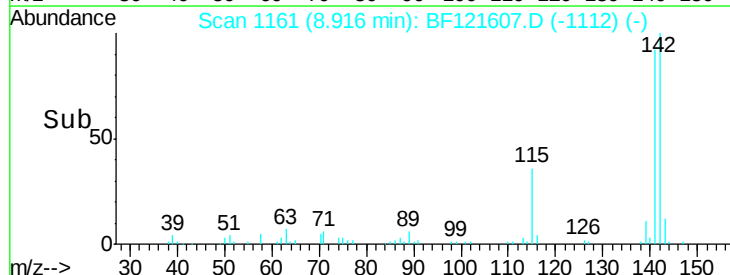
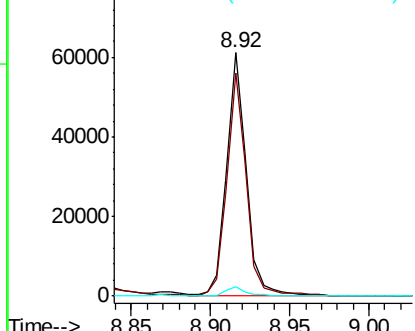


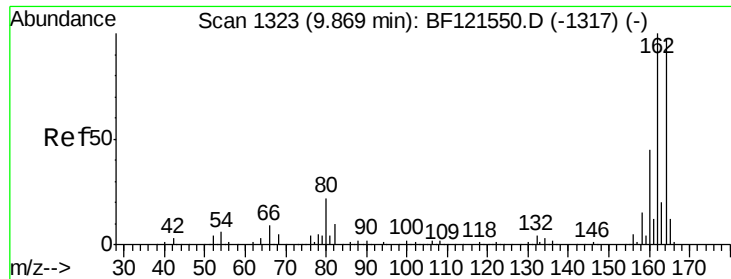
#38
1-Methylnaphthalene
Concen: 2.316 ng
RT: 8.92 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.8	112.2
116	3.8	3.0	4.6



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





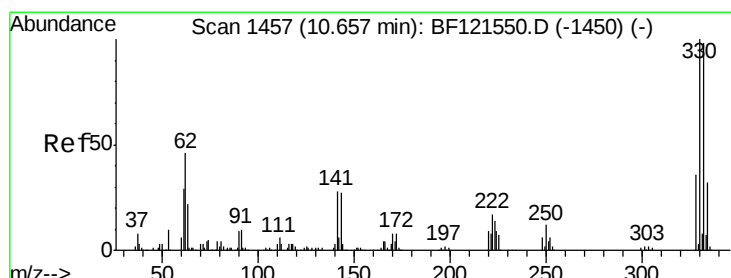
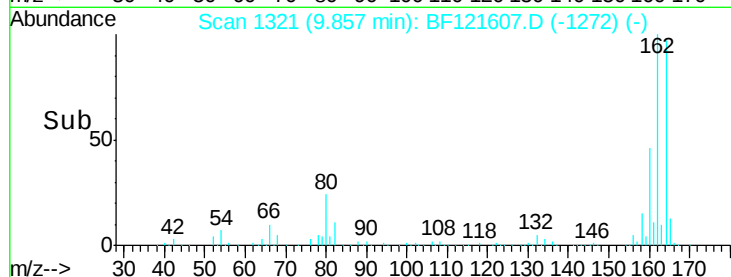
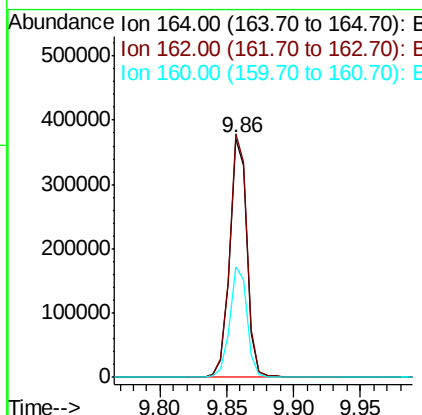
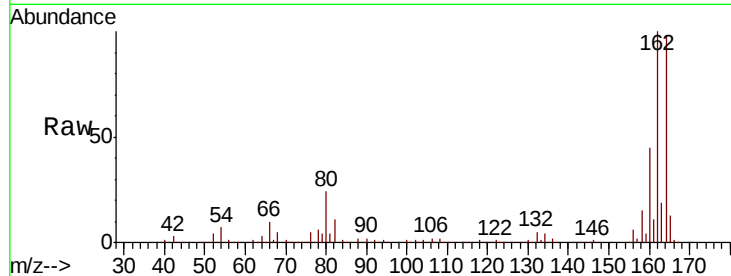
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.1	82.3	123.5	
160	46.4	37.0	55.4	

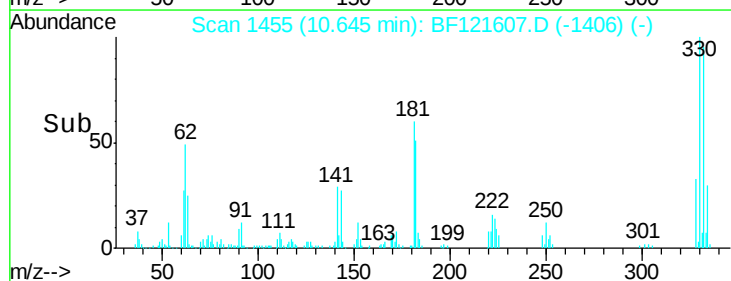
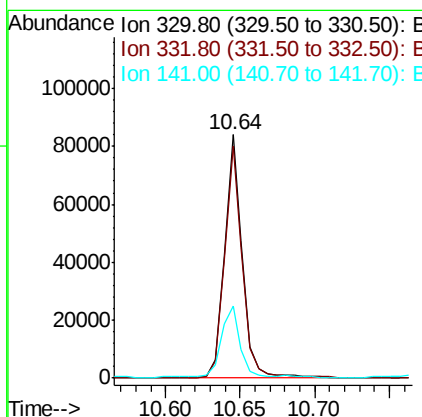
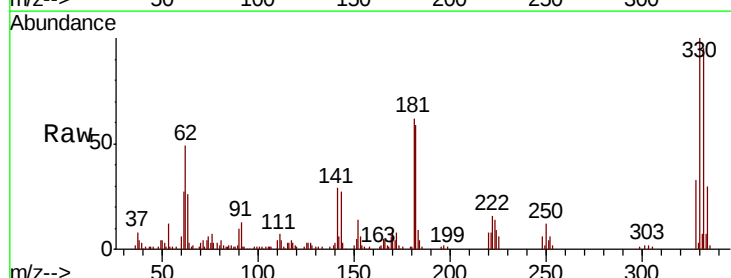
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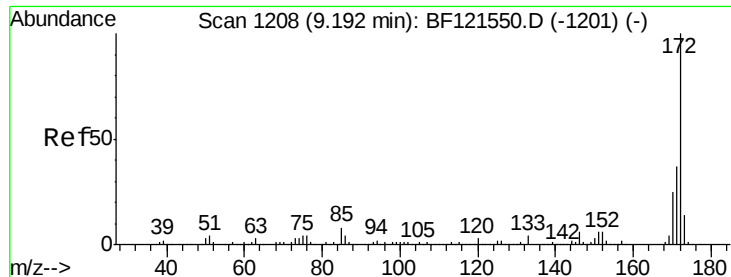
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#42
2,4,6-Tribromophenol
Concen: 16.671 ng
RT: 10.64 min Scan# 1455
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.3	77.1	115.7	
141	34.6	23.6	35.4	





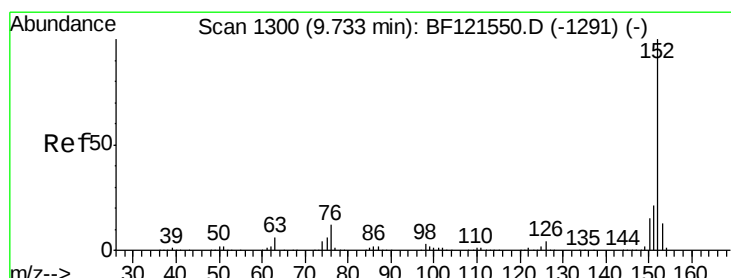
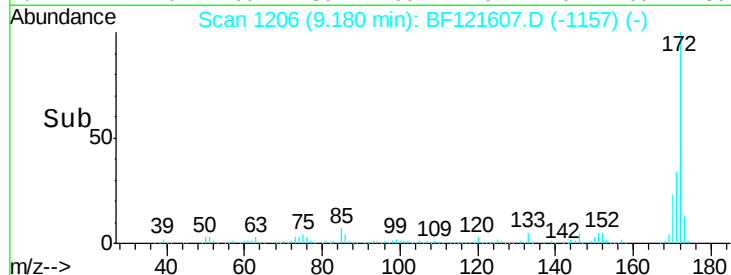
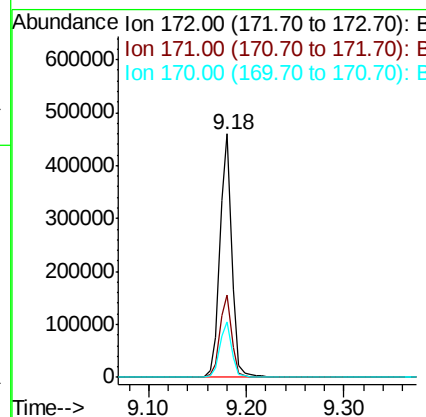
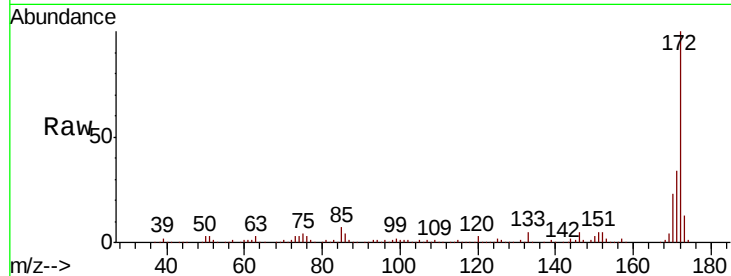
#45
2-Fluorobiphenyl
Concen: 17.332 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.8	44.6
170	22.9	19.8	29.8

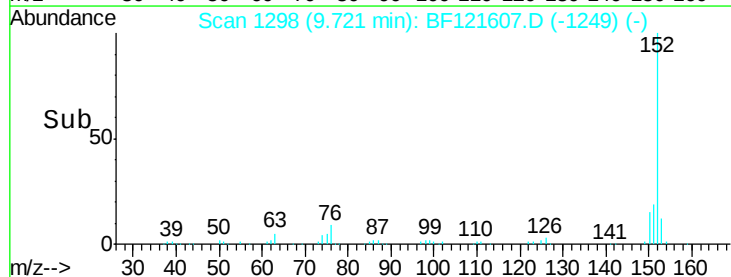
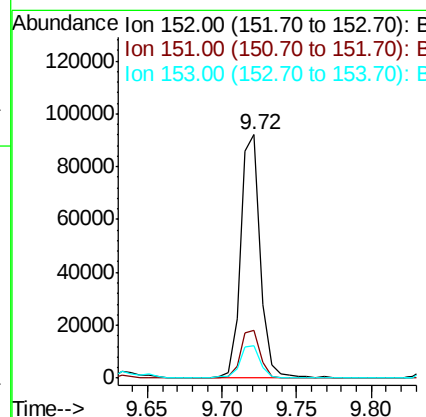
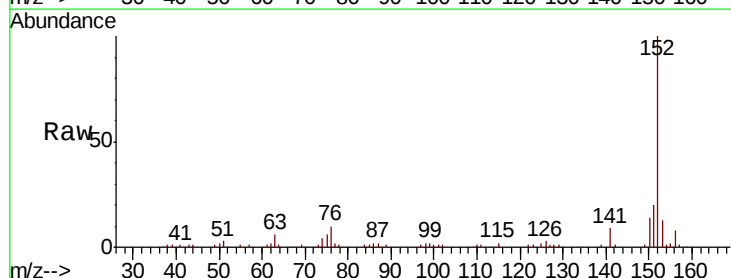
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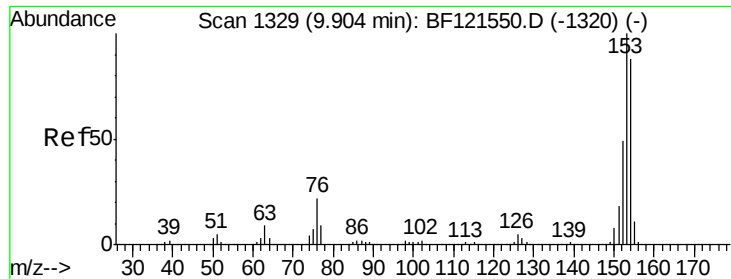
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#49
Acenaphthylene
Concen: 2.575 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	24.8
153	13.4	10.7	16.1





#52

Acenaphthene

Concen: 8.587 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Instrument :

BNA_F

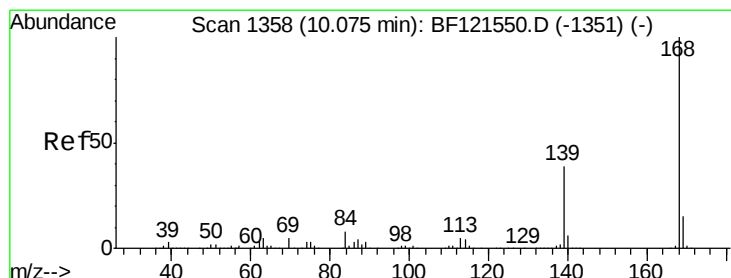
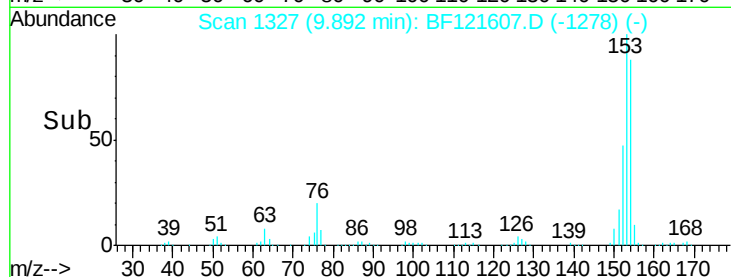
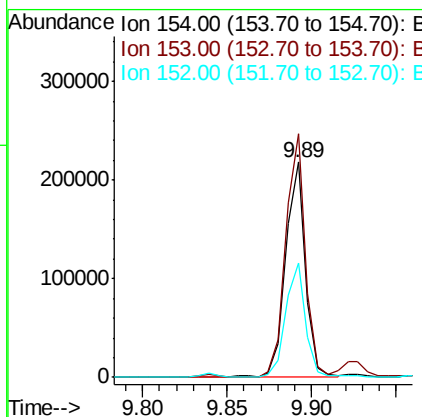
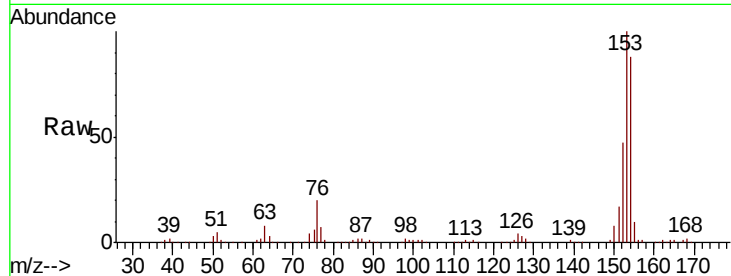
ClientSampleId :

PAV-B36-091620-10-15

Tot Ion:	154	Resp:	179491
Ion Ratio	Lower	Upper	
154	100		
153	113.2	91.0	136.4
152	53.0	44.2	66.2

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#55

Dibenzofuran

Concen: 5.343 ng

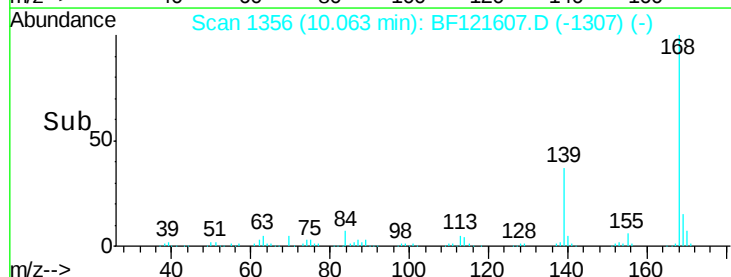
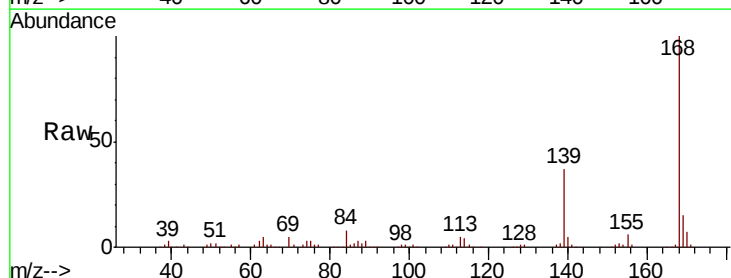
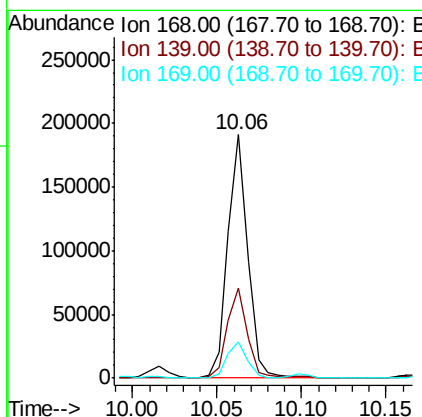
RT: 10.06 min Scan# 1356

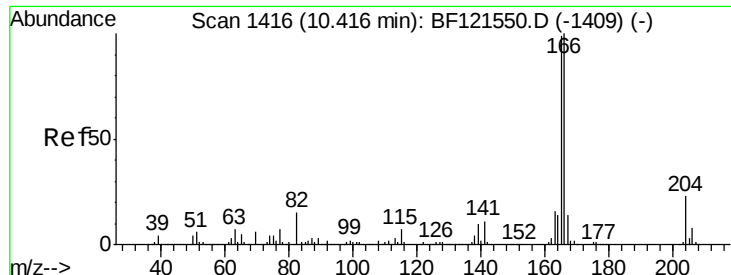
Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Tgt Ion:	168	Resp:	157275
Ion Ratio	Lower	Upper	
168	100		
139	37.1	31.4	47.0
169	14.8	11.9	17.9





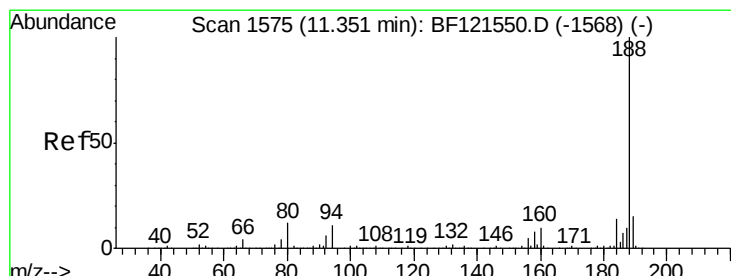
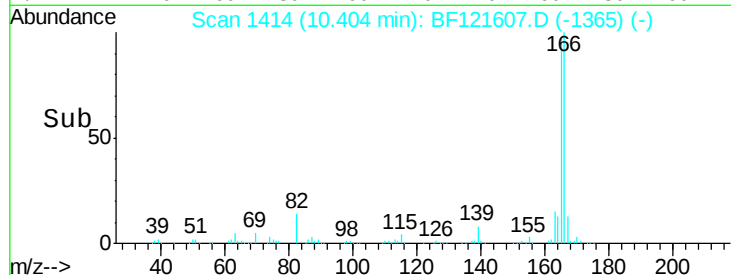
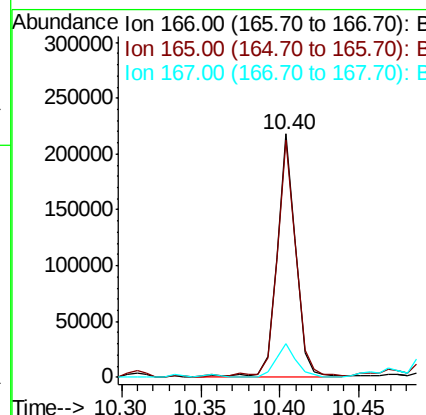
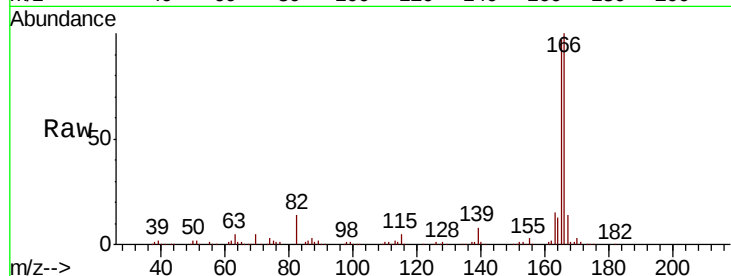
#58
Fluorene
 Concen: 8.025 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.0	118.4
167	13.7	11.0	16.6

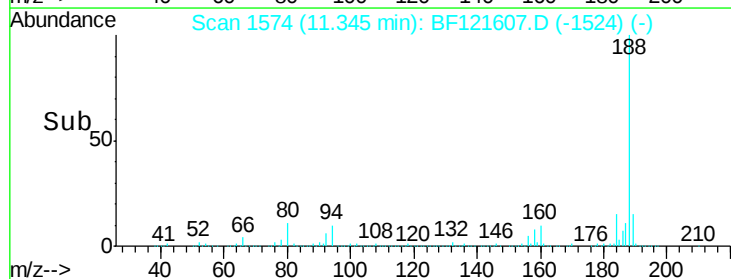
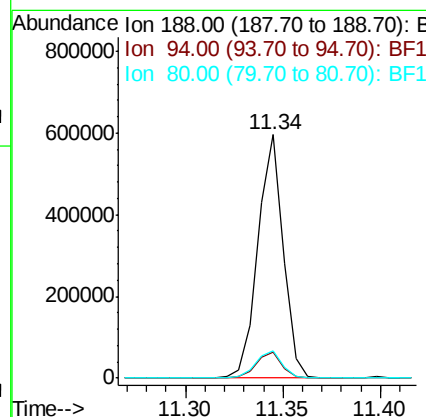
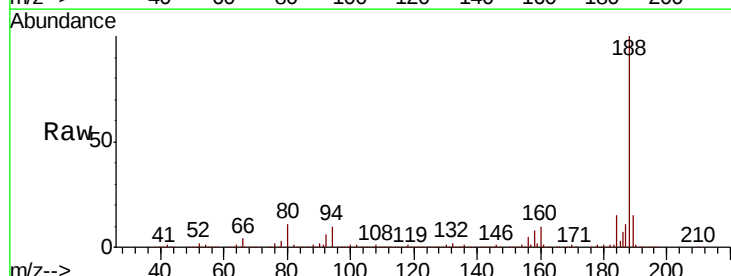
Manual Integrations
 APPROVED

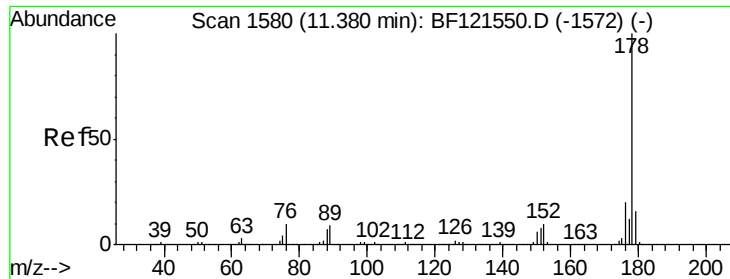
mohammad
 9/21/2020 10:32:34 AM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.7	13.1
80	11.0	9.3	13.9





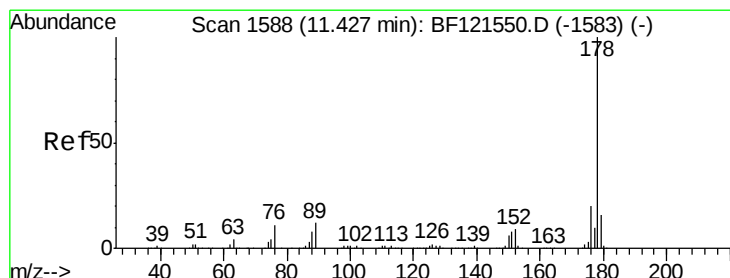
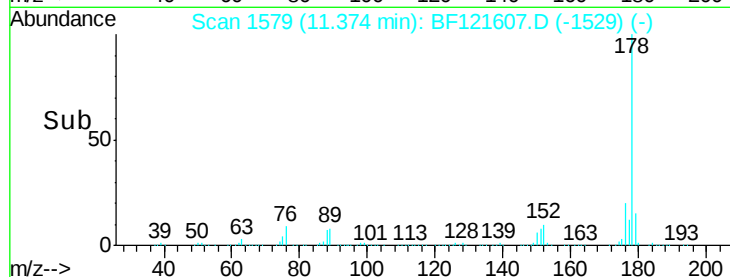
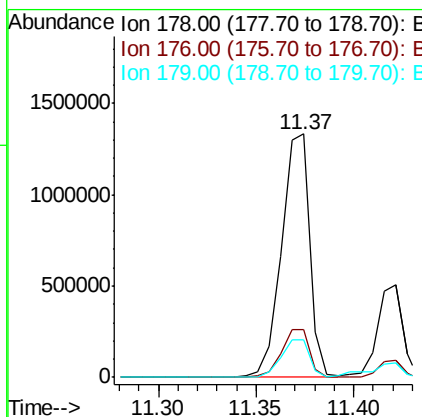
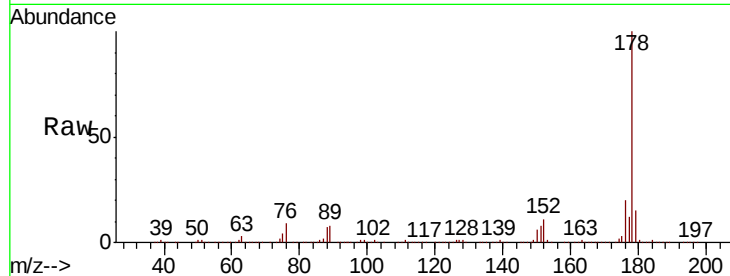
#71
Phenanthrene
Concen: 45.761 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	19.9	16.2	24.4	
179	15.5	12.6	19.0	

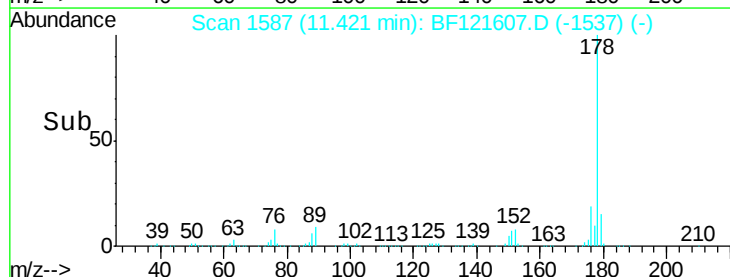
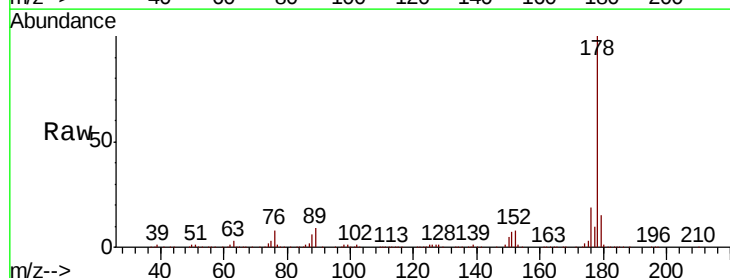
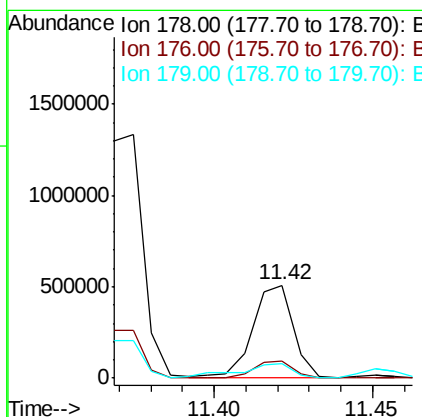
Manual Integrations
APPROVED

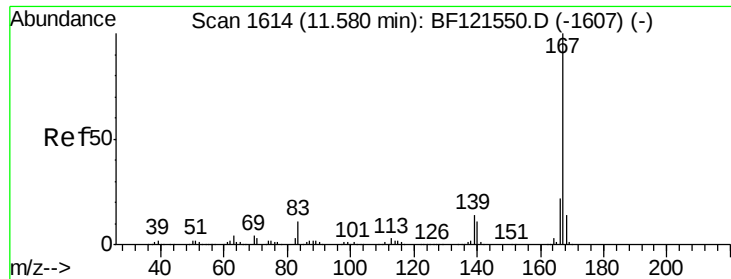
mohammad
9/21/2020 10:32:34 AM



#72
Anthracene
Concen: 14.904 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.6	15.7	23.5	
179	15.3	12.8	19.2	





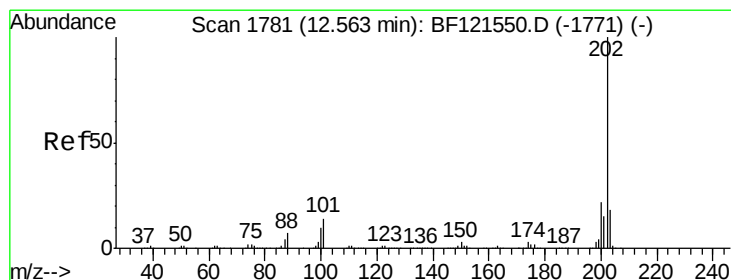
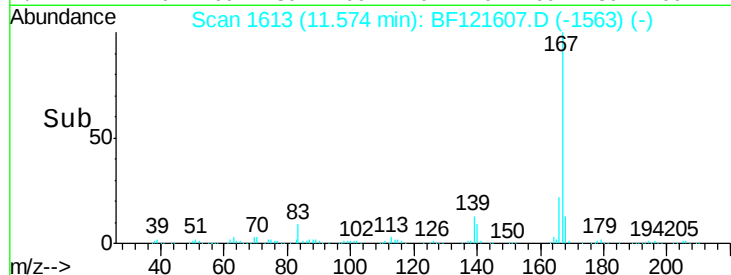
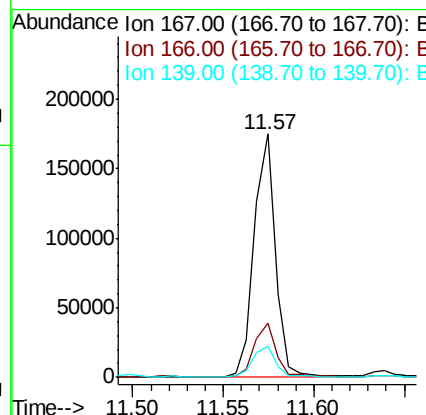
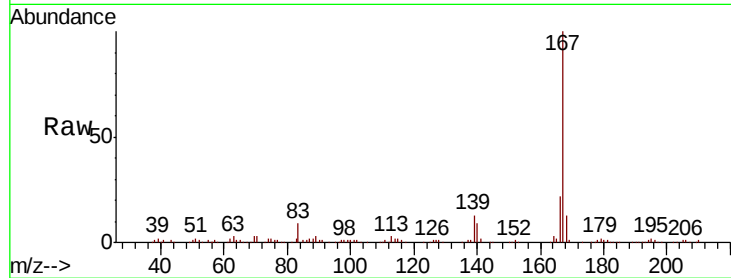
#73
 Carbazole
 Concen: 5.308 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.9	26.9
139	12.7	11.2	16.8

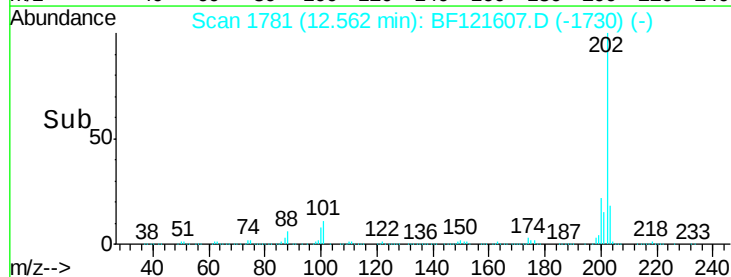
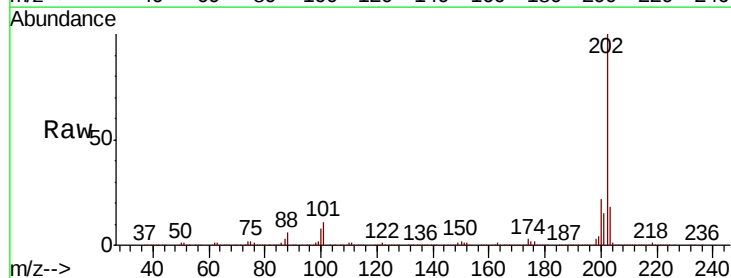
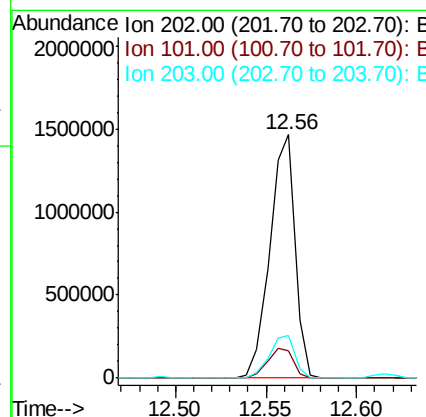
Manual Integrations
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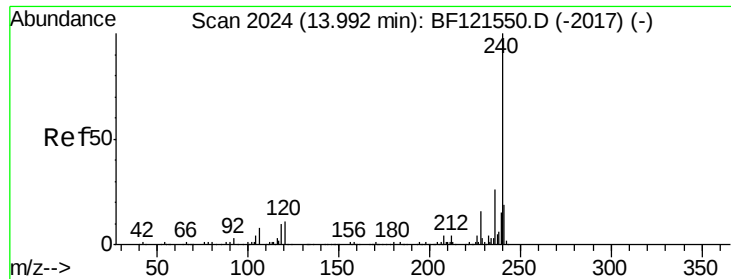
mohammad
 9/21/2020 10:32:34 AM



#75
 Fluoranthene
 Concen: 45.372 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. -0.00 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	34.0
203	17.7	0.0	38.2





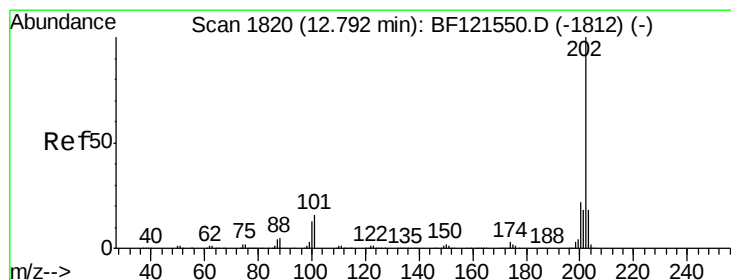
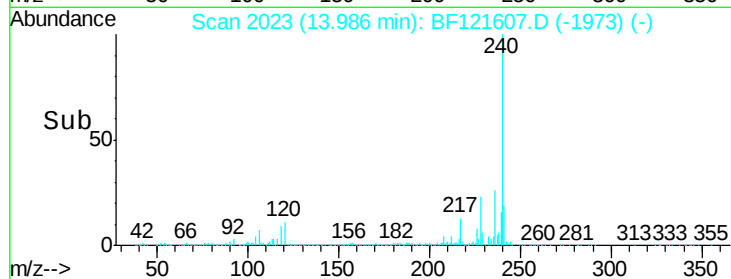
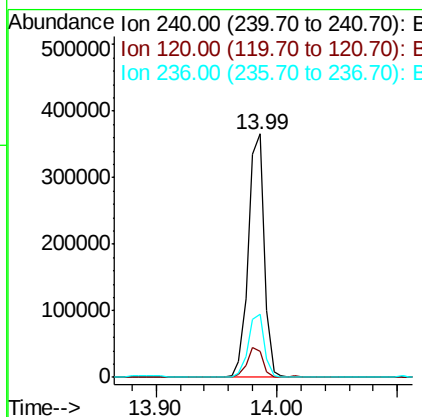
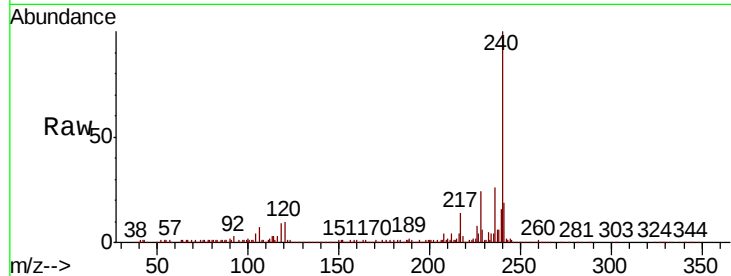
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.2	13.8
236	26.0	20.5	30.7

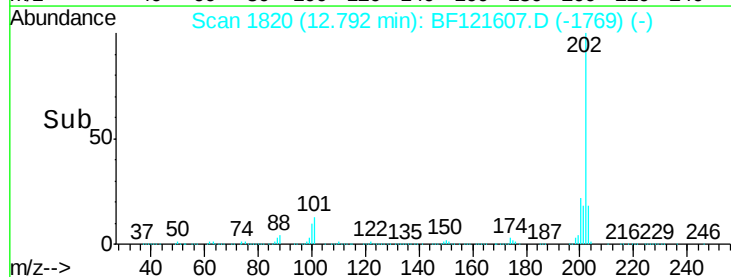
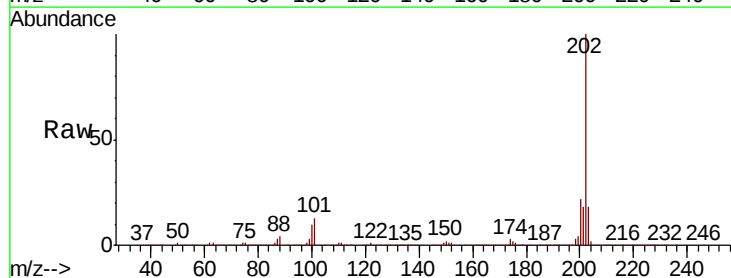
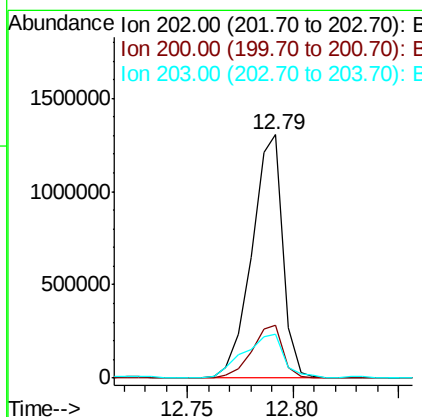
Manual Integrations
APPROVED

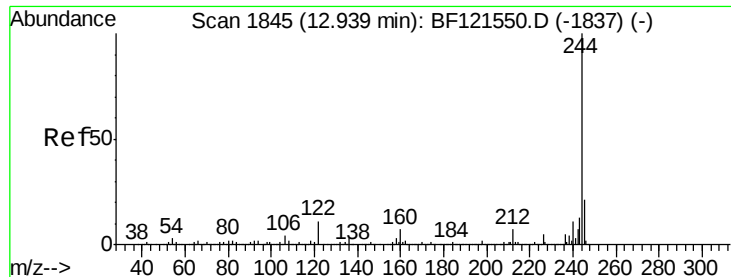
mohammad
9/21/2020 10:32:34 AM



#78
Pyrene
Concen: 53.768 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.00 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.8	26.8
203	18.0	14.6	22.0





#79

Terphenyl-d14

Concen: 15.905 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Instrument :

BNA_F

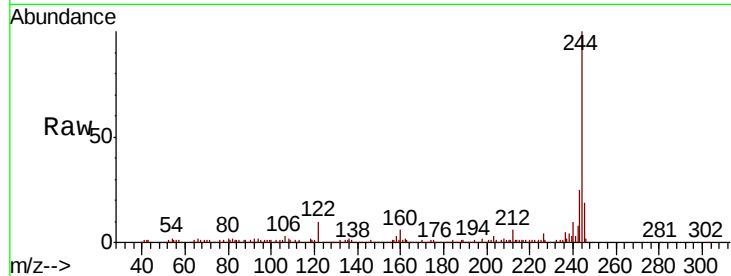
ClientSampleId :

PAV-B36-091620-10-15

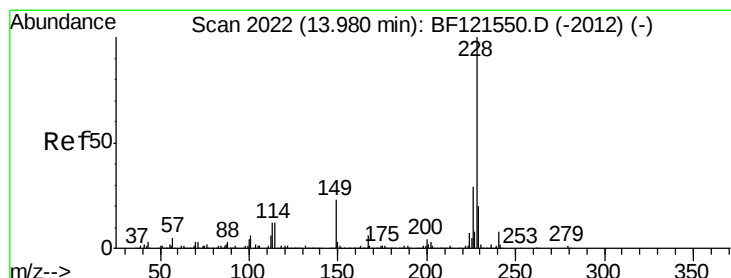
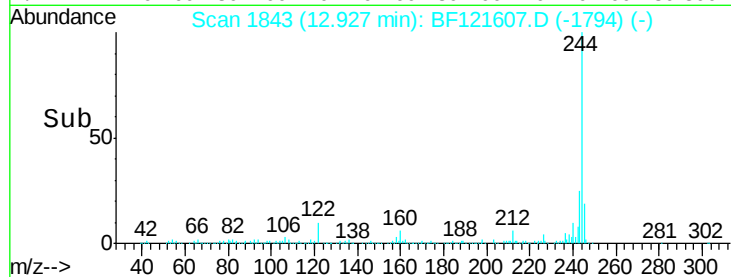
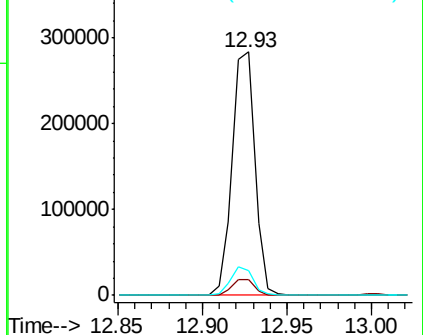
Tot Ion:	244	Resp:	265540
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.7	8.5
122	9.9	8.7	13.1

Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 29.904 ng

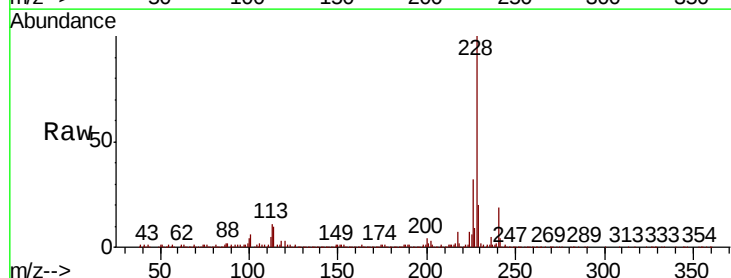
RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

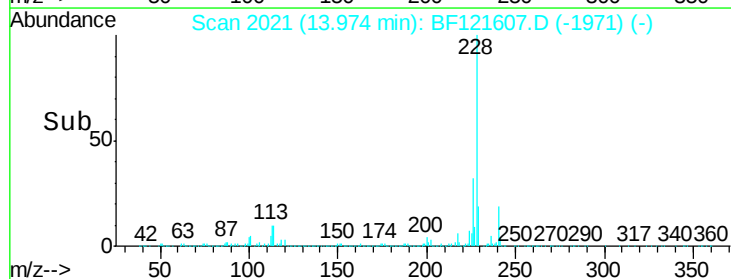
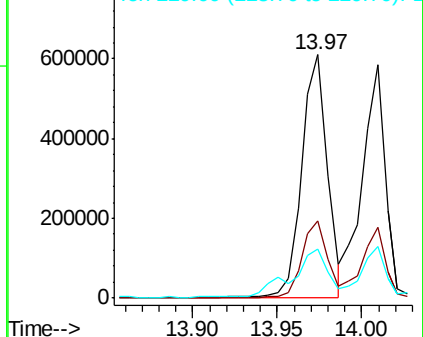
Lab File: BF121607.D

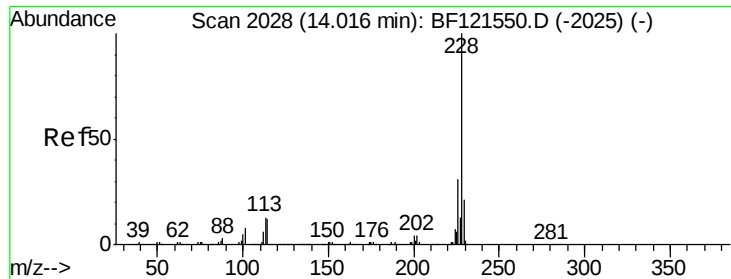
Acq: 17 Sep 2020 20:27

Tgt Ion:	228	Resp:	639876
Ion Ratio	Lower	Upper	
228	100		
226	31.8	22.9	34.3
229	20.1	16.3	24.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 25.617 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF121607.D

Acq: 17 Sep 2020 20:27

Instrument :

BNA_F

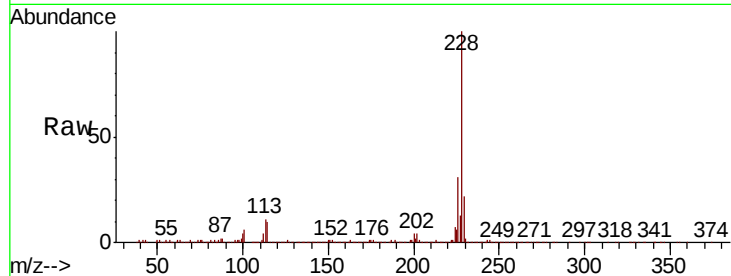
ClientSampleId :

PAV-B36-091620-10-15

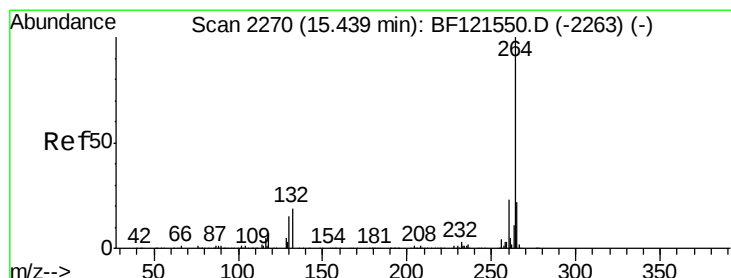
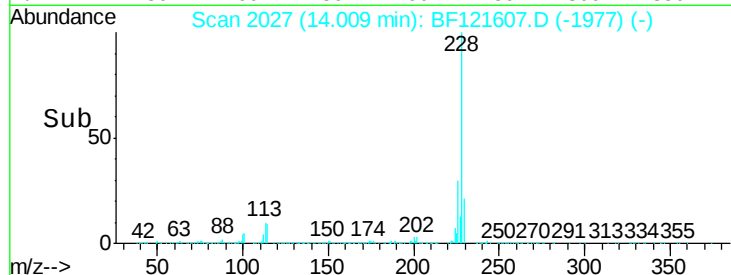
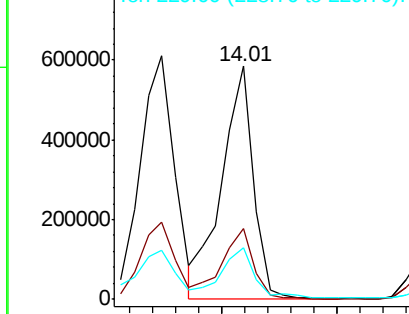
Tot Ion:	228	Resp:	555072
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.1	37.7
229	22.0	16.6	25.0

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

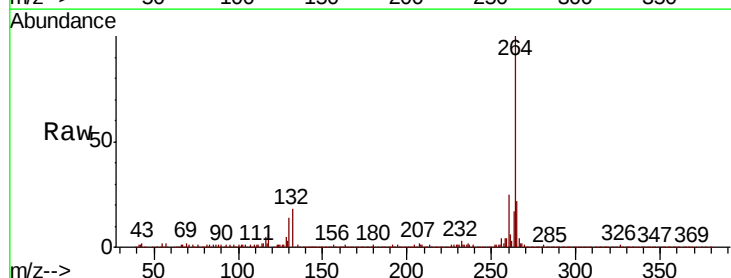
RT: 15.44 min Scan# 2270

Delta R.T. -0.00 min

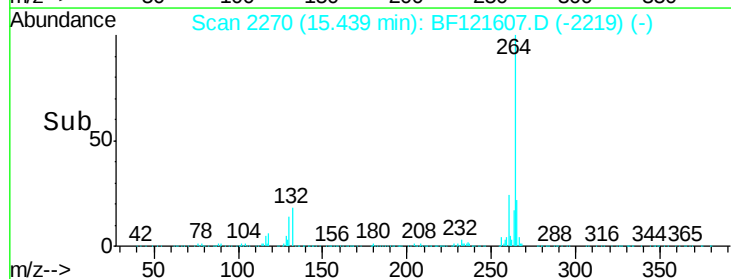
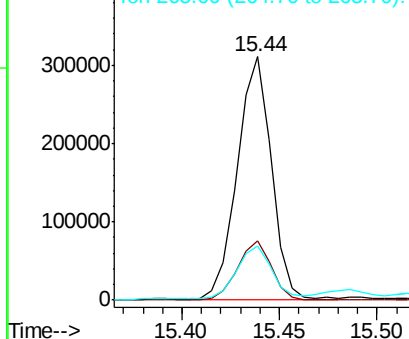
Lab File: BF121607.D

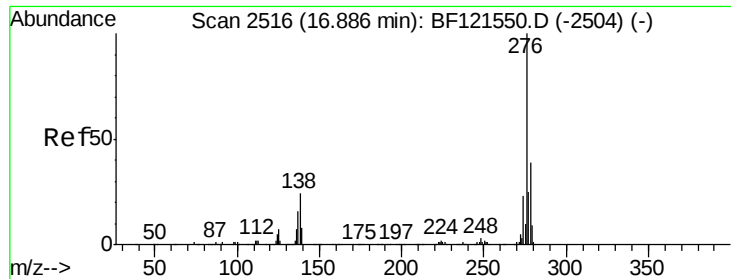
Acq: 17 Sep 2020 20:27

Tgt Ion:	264	Resp:	375506
Ion Ratio	Lower	Upper	
264	100		
260	24.6	18.8	28.2
265	22.5	17.8	26.6



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





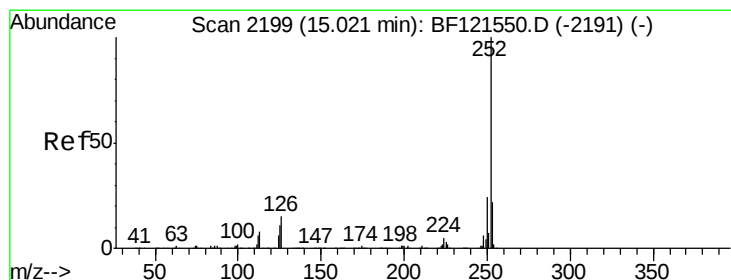
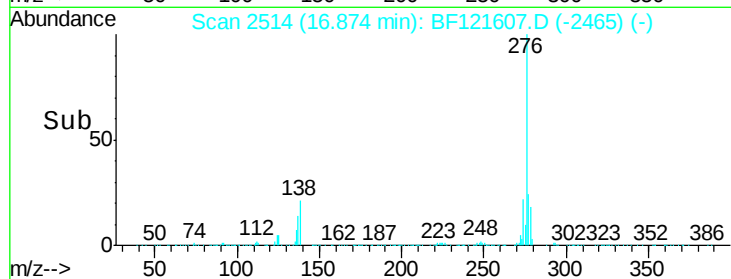
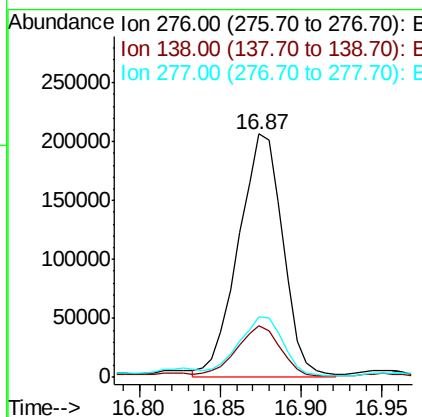
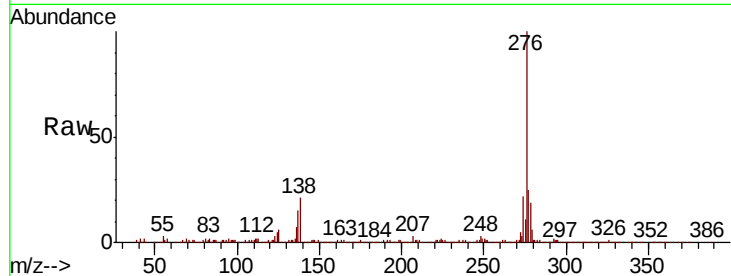
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 16.131 ng m
 RT: 16.87 min Scan# 2514
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B36-091620-10-15

Tot Ion	Ratio	Resp	Lower	Upper
276	100	394464		
138	4.1	20.6	31.0#	
277	4.5	20.2	30.4#	

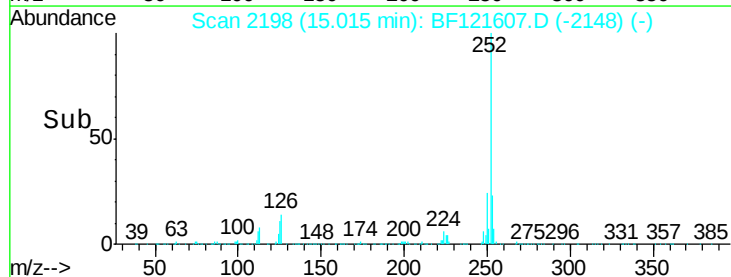
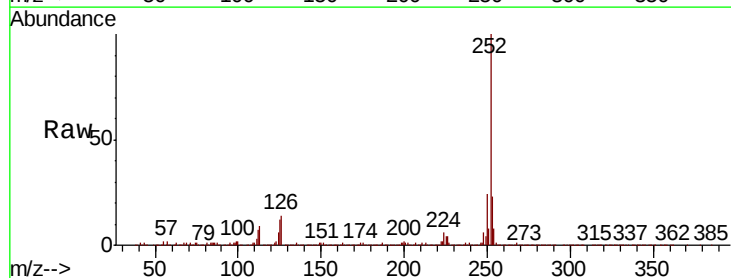
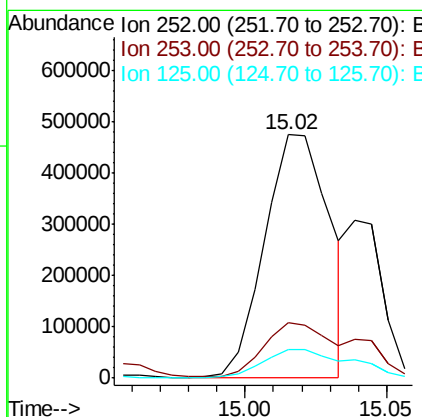
Manual Integrations
 APPROVED

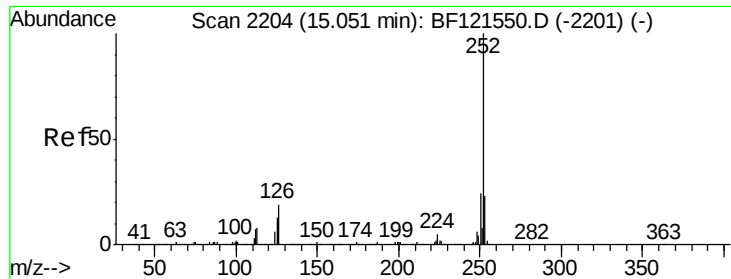
mohammad
 9/21/2020 10:32:34 AM



#88
 Benzo(b)fluoranthene
 Concen: 29.964 ng m
 RT: 15.02 min Scan# 2198
 Delta R.T. -0.01 min
 Lab File: BF121607.D
 Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	752175		
253	22.9	17.9	26.9	
125	11.9	9.2	13.8	





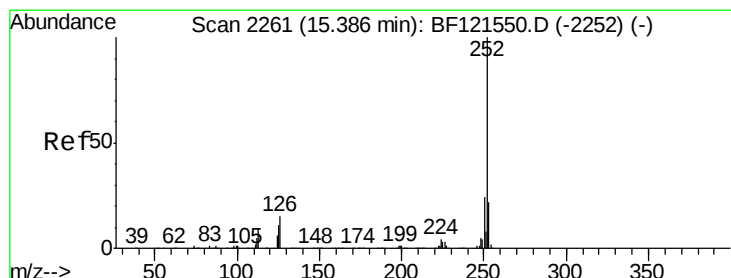
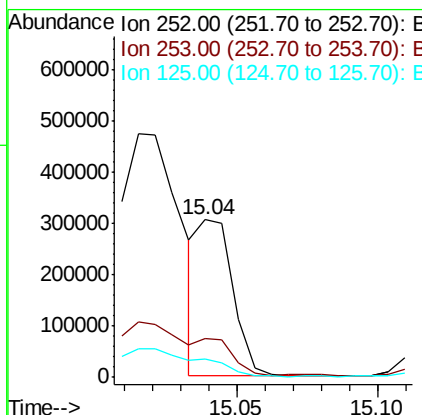
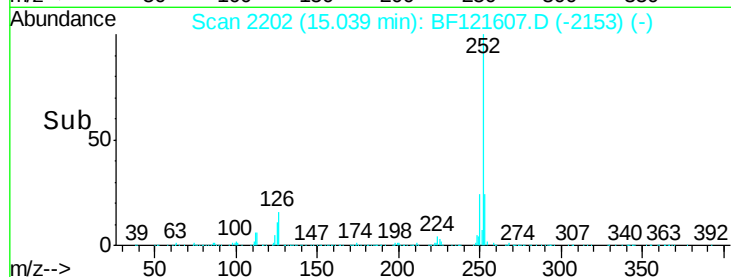
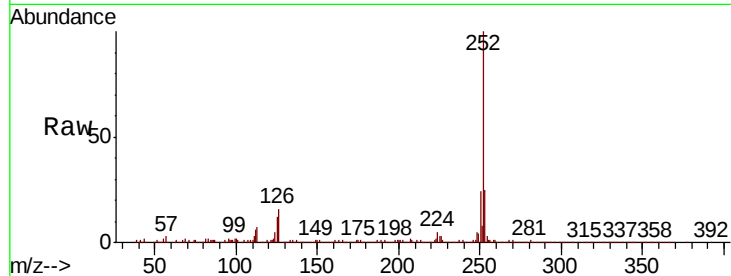
#89
Benzo(k)fluoranthene
Concen: 11.223 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.8	26.8
125	11.6	9.8	14.6

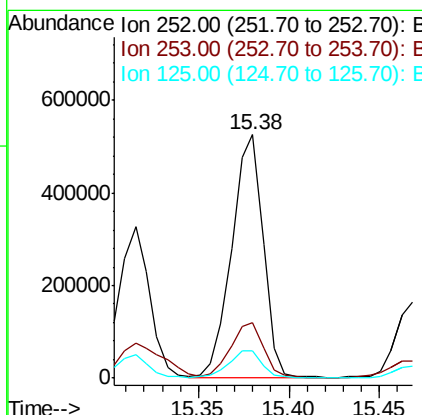
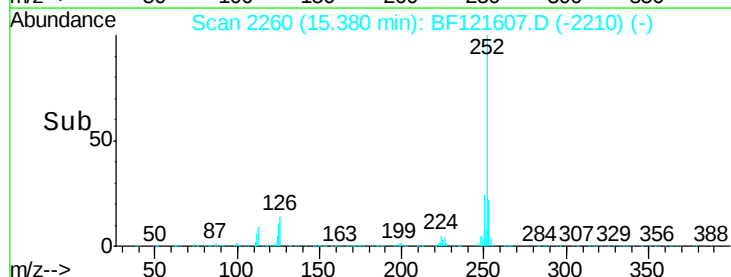
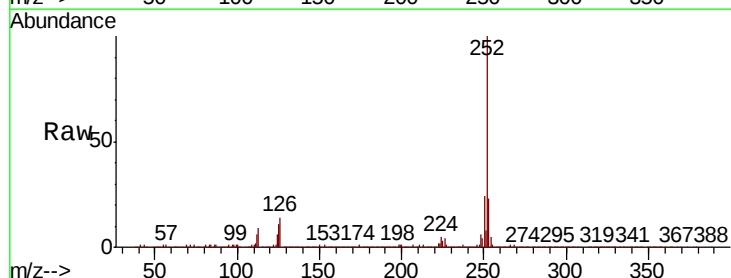
Manual Integrations
APPROVED

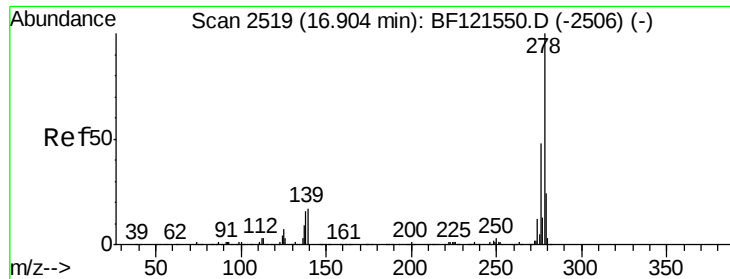
mohammad
9/21/2020 10:32:34 AM



#90
Benzo(a)pyrene
Concen: 29.512 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	11.2	9.0	13.4





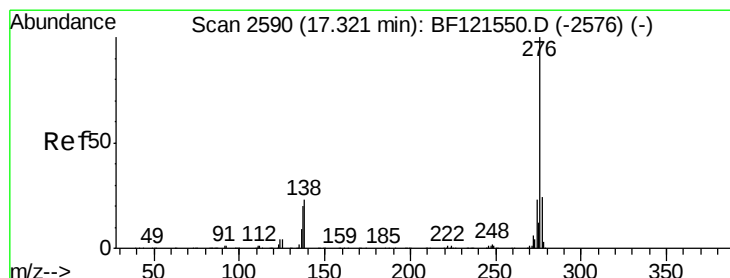
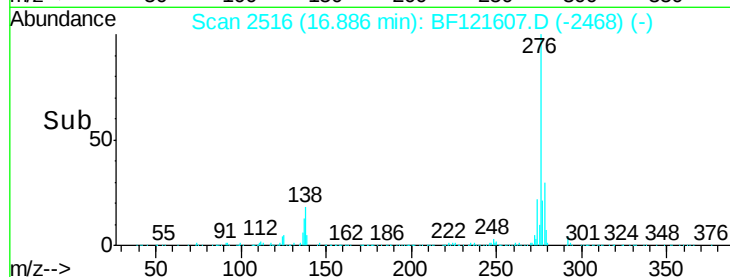
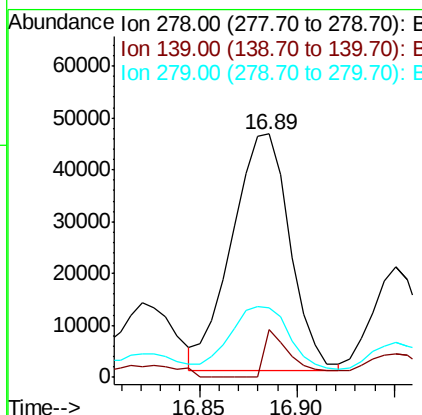
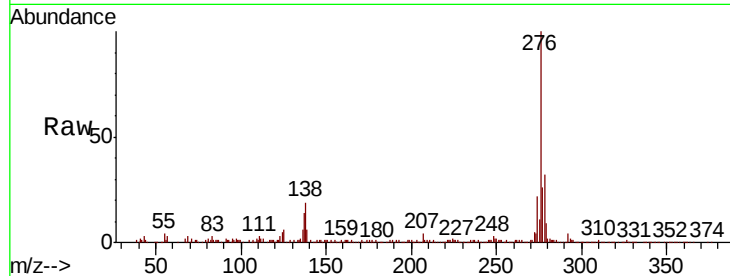
#91
Dibenzo(a,h)anthracene
Concen: 4.618 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.02 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Instrument :
BNA_F
ClientSampleId :
PAV-B36-091620-10-15

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.5	13.9	20.9
279	28.7	19.2	28.8

Manual Integrations
APPROVED

mohammad
9/21/2020 10:32:34 AM



#92
Benzo(g,h,i)perylene
Concen: 17.916 ng
RT: 17.31 min Scan# 2588
Delta R.T. -0.01 min
Lab File: BF121607.D
Acq: 17 Sep 2020 20:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.4	29.0
138	21.6	18.7	28.1

