

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
 Data File : BF121641.D
 Acq On : 21 Sep 2020 22:43
 Operator : JU/CG
 Sample : L3869-06 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091820

Manual Integrations
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mohammad
 9/22/2020 10:09:17 AM

Quant Time: Sep 22 02:46:22 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 21 14:19:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	159781	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	613108	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	299171	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	505987	20.00	ng	0.00
76) Chrysene-d12	13.99	240	379697	20.00	ng	0.00
86) Perylene-d12	15.46	264	390418	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	424483	39.48	ng	0.00
7) Phenol-d6	6.45	99	550602	39.03	ng	-0.01
23) Nitrobenzene-d5	7.37	82	362123	31.71	ng	-0.01
42) 2,4,6-Tribromophenol	10.65	330	103705	27.89	ng	0.00
45) 2-Fluorobiphenyl	9.18	172	627258	31.75	ng	0.00
79) Terphenyl-d14	12.94	244	520699	27.78	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	82380	2.545	ng	98
32) Benzoic acid	7.85	122	50377	12.565	ng	98
37) 2-Methylnaphthalene	8.82	142	78998	3.725	ng	97
38) 1-Methylnaphthalene	8.92	142	258374	13.089	ng	100
49) Acenaphthylene	9.72	152	66785	2.303	ng	# 87
50) Dimethylphthalate	9.57	163	86231	3.977	ng	# 99
52) Acenaphthene	9.89	154	299854	16.371	ng	99
55) Dibenzofuran	10.06	168	242009	9.382	ng	# 95
58) Fluorene	10.41	166	512336	25.974	ng	98
71) Phenanthrene	11.38	178	2315353	83.986	ng	99
72) Anthracene	11.43	178	690752	24.280	ng	99
73) Carbazole	11.58	167	63348	2.468	ng	98
75) Fluoranthene	12.57	202	1481952	50.357	ng	99
78) Pyrene	12.80	202	1309740	47.212	ng	100
81) Benzo(a)anthracene	13.99	228	410487	17.088	ng	97
83) Chrysene	14.02	228	379774	15.613	ng	98
87) Indeno(1,2,3-cd)pyrene	16.92	276	198151	7.793	ng	95
88) Benzo(b)fluoranthene	15.03	252	451964m	17.317	ng	
89) Benzo(k)fluoranthene	15.06	252	141937m	5.939	ng	
90) Benzo(a)pyrene	15.40	252	327068	14.742	ng	98
91) Dibenz(a,h)anthracene	16.93	278	53134	2.510	ng	# 87
92) Benzo(g,h,i)perylene	17.36	276	183159	8.804	ng	98

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

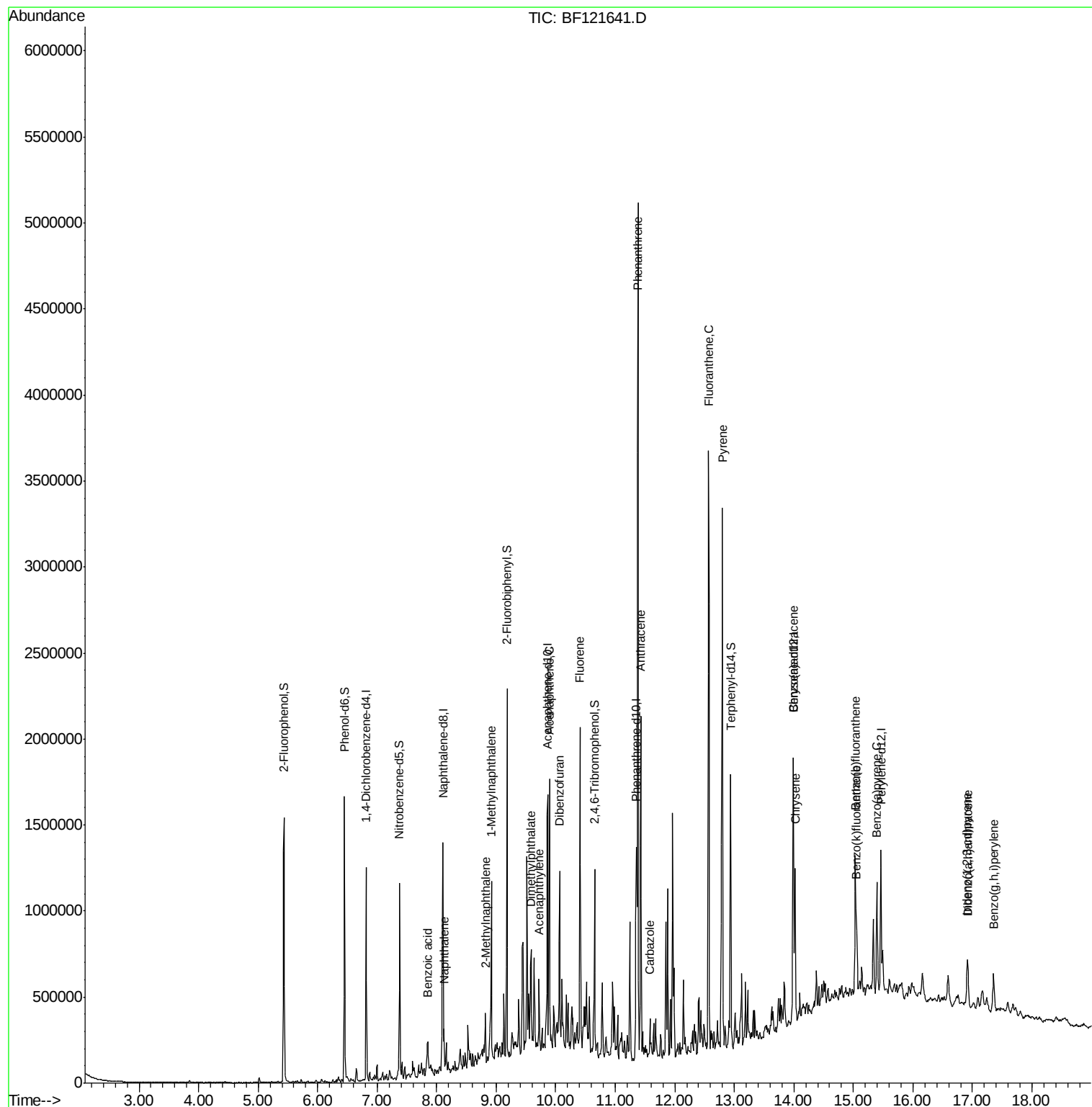
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121641.D
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Operator : JU/CG
Sample : L3869-06 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

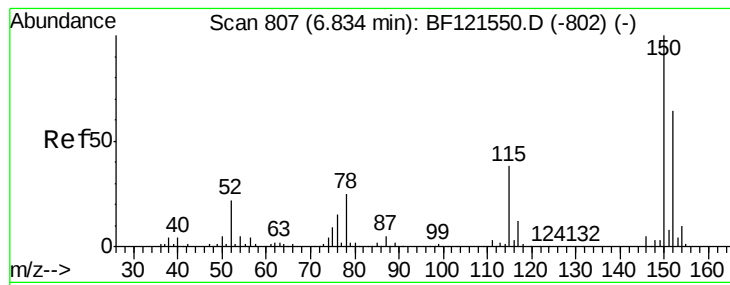
Instrument :
BNA_F
ClientSampleId :
OR-02-091820

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Quant Time: Sep 22 02:46:22 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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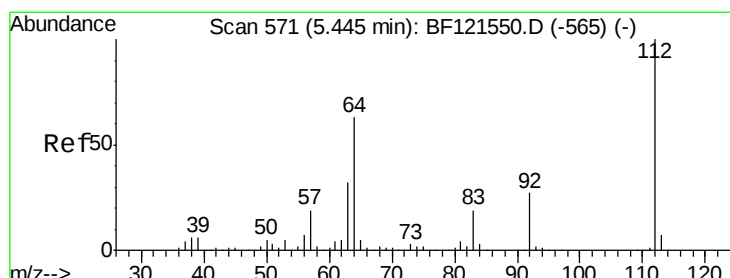
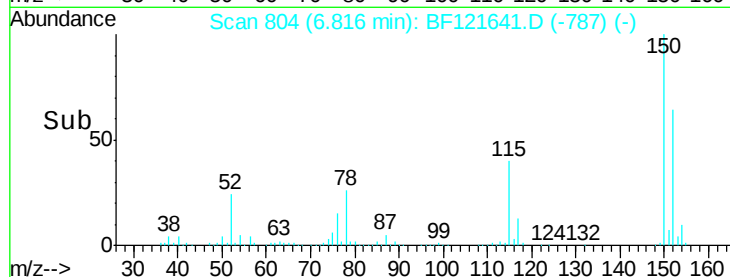
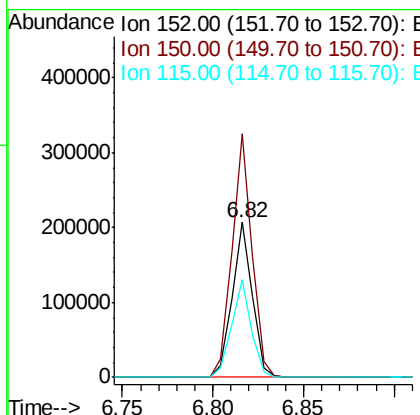
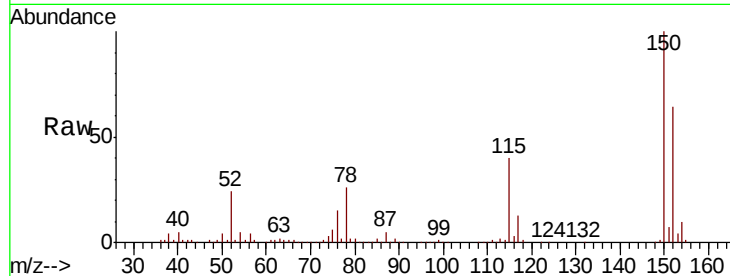
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091820

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	128.1	192.1
115	63.3	52.6	79.0

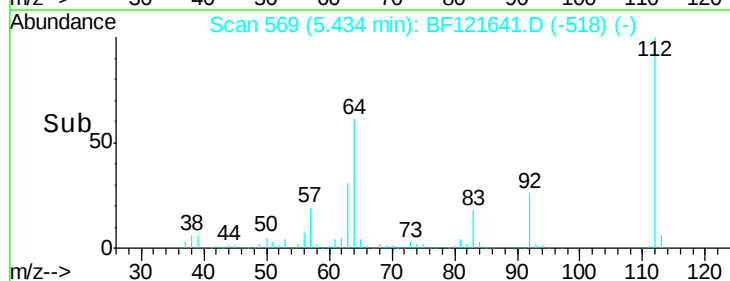
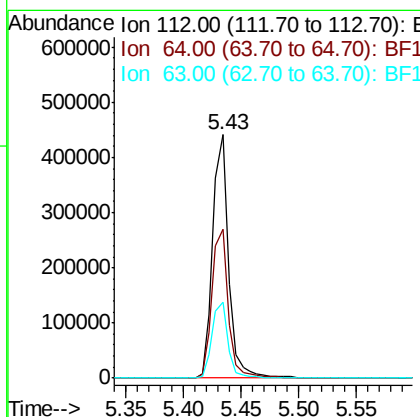
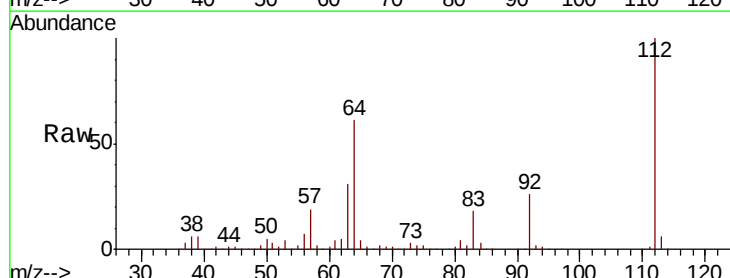
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#5
 2-Fluorophenol
 Concen: 39.481 ng
 RT: 5.43 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	52.2	78.2
63	31.0	26.6	39.8





#7

Phenol-d6

Concen: 39.035 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

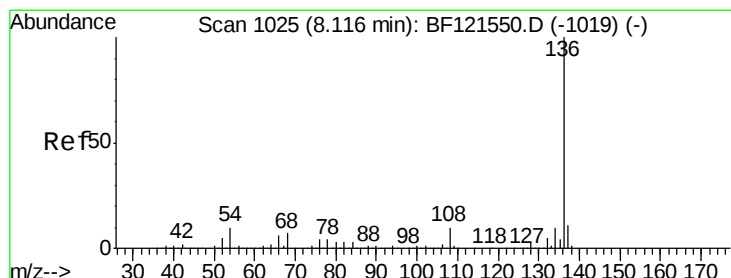
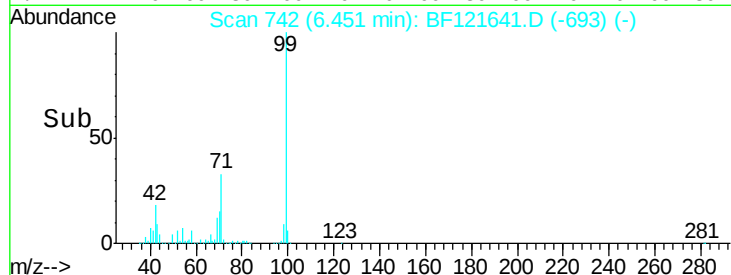
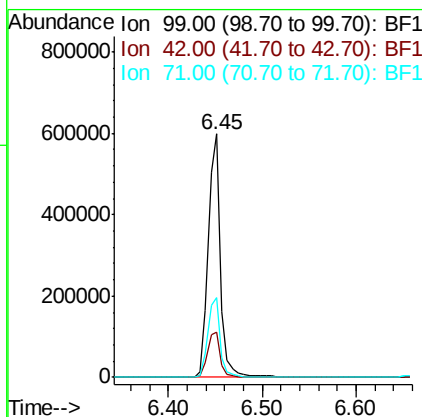
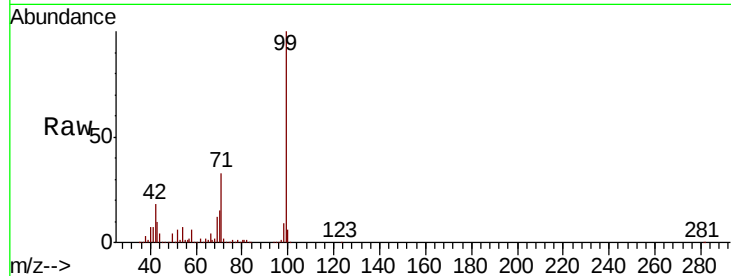
ClientSampleId :

OR-02-091820

Tot Ion:	99	Resp:	550602
Ion Ratio	Lower	Upper	
99	100		
42	18.4	15.5	23.3
71	32.6	27.4	41.2

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#21

Naphthalene-d8

Concen: 20.000 ng

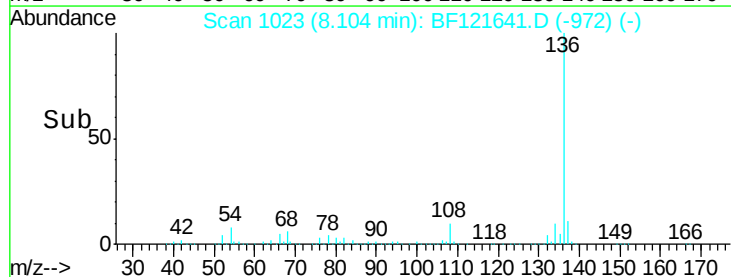
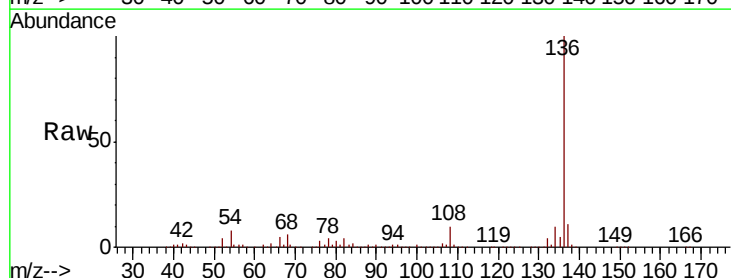
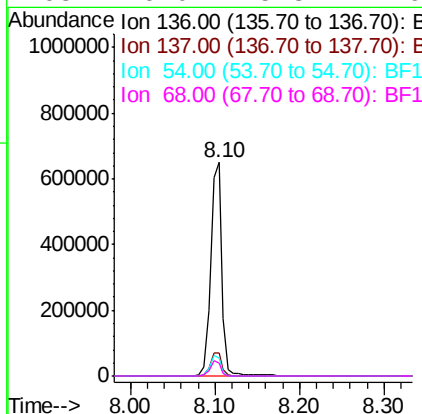
RT: 8.10 min Scan# 1023

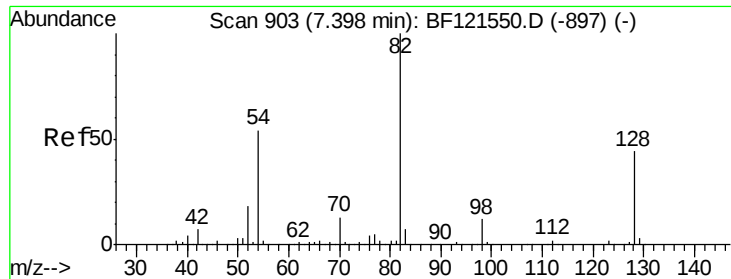
Delta R.T. 0.00 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	136	Resp:	613108
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	8.2	7.4	11.0
68	6.0	5.3	7.9





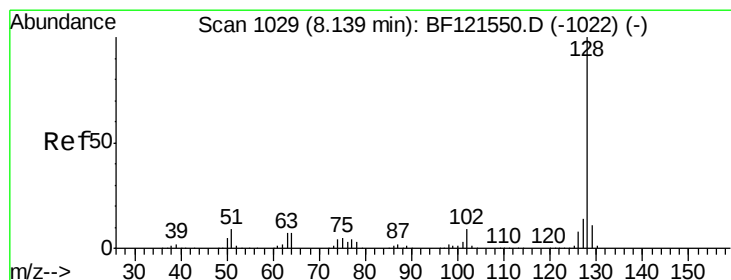
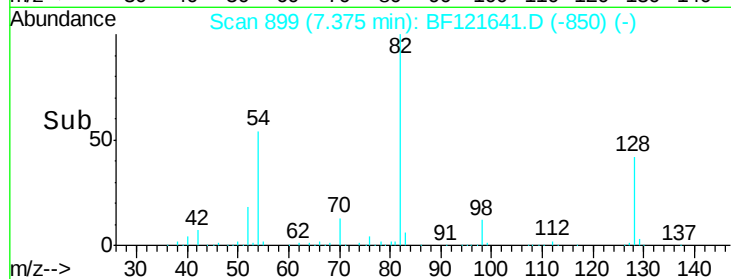
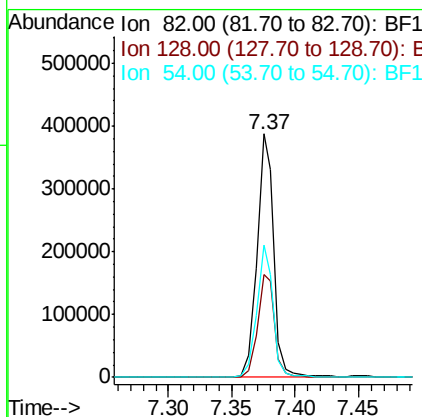
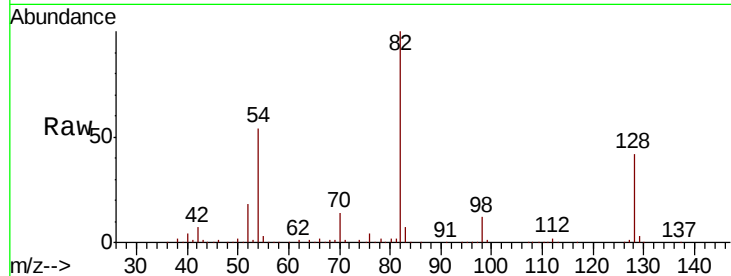
#23
Nitrobenzene-d5
Concen: 31.712 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	82	Resp	362123
Ion Ratio	Lower	Upper	
82	100		
128	42.2	33.9	50.9
54	54.5	42.9	64.3

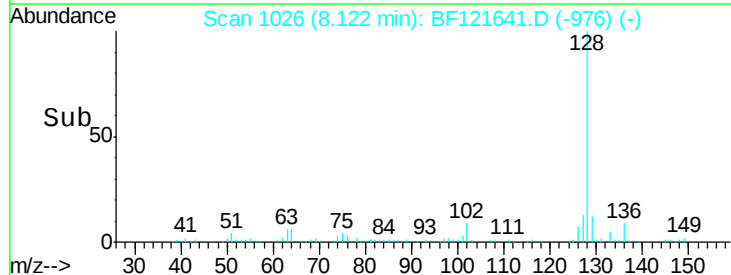
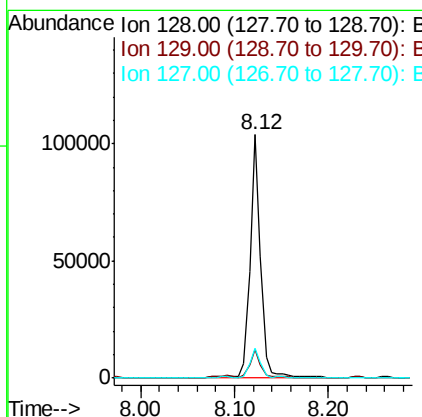
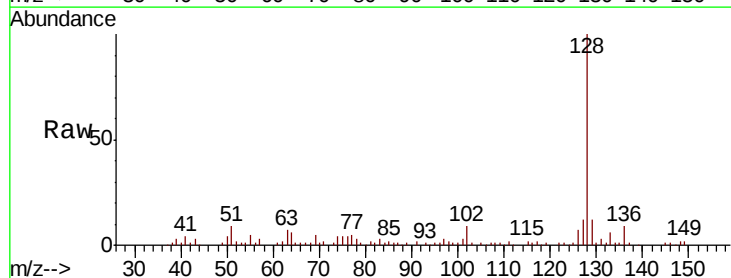
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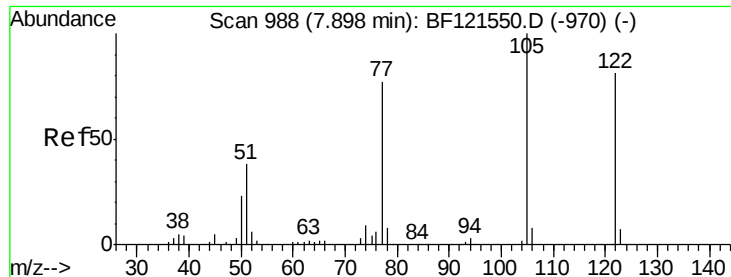
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#31
Naphthalene
Concen: 2.545 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	128	Resp	82380
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.0	13.4
127	12.5	10.8	16.2





#32

Benzoic acid

Concen: 12.565 ng

RT: 7.85 min Scan# 980

Delta R.T. -0.05 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

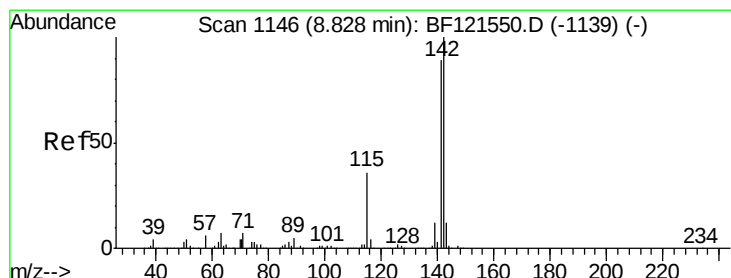
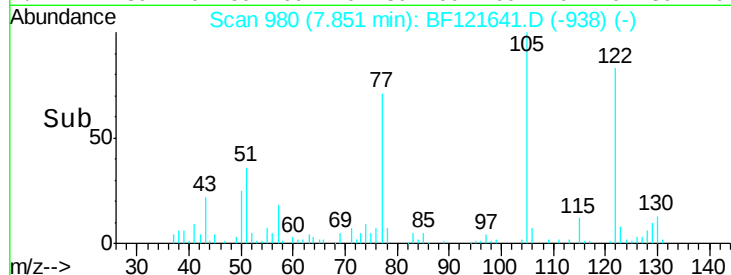
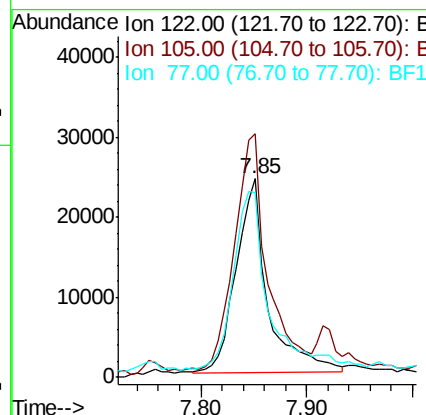
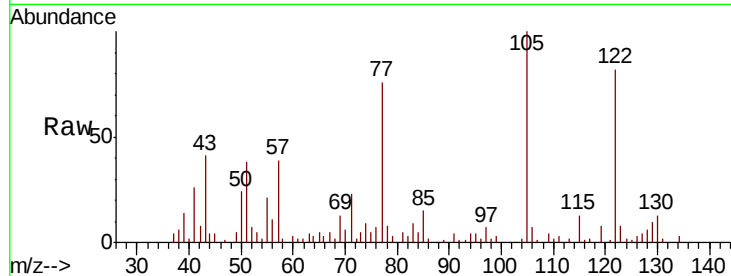
ClientSampleId :

OR-02-091820

Tot Ion:	122	Resp:	50377
Ion Ratio	Lower	Upper	
122	100		
105	122.7	101.9	141.9
77	93.1	69.0	109.0

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#37

2-Methylnaphthalene

Concen: 3.725 ng

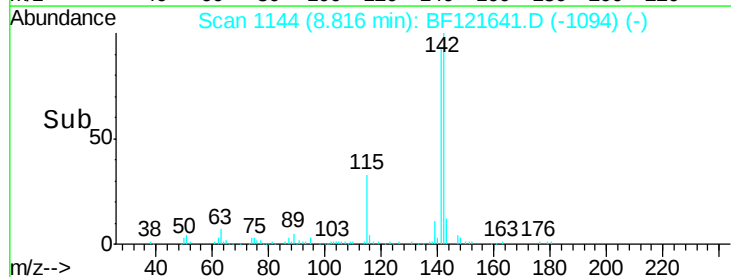
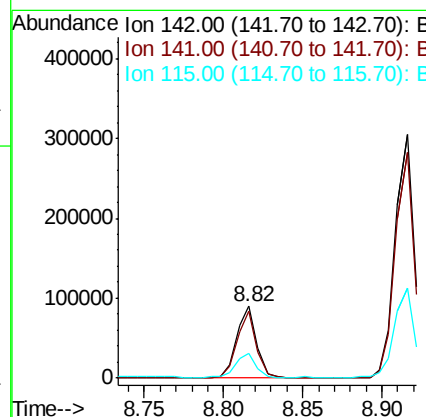
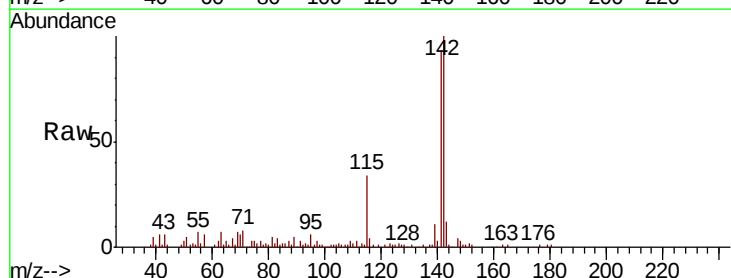
RT: 8.82 min Scan# 1144

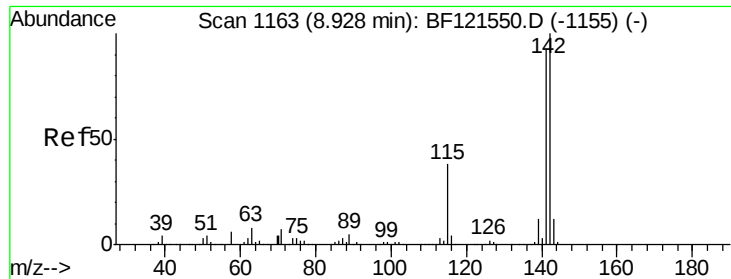
Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	142	Resp:	78998
Ion Ratio	Lower	Upper	
142	100		
141	93.2	72.2	108.2
115	33.7	28.5	42.7





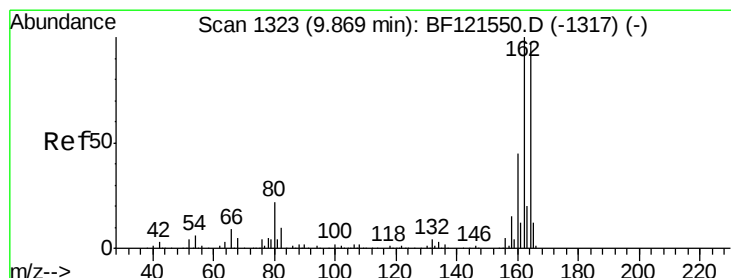
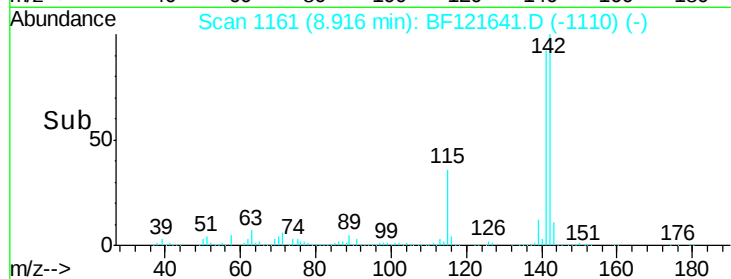
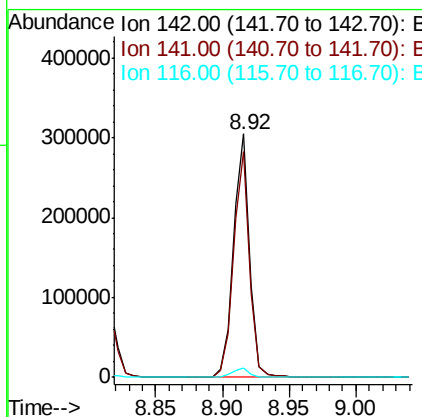
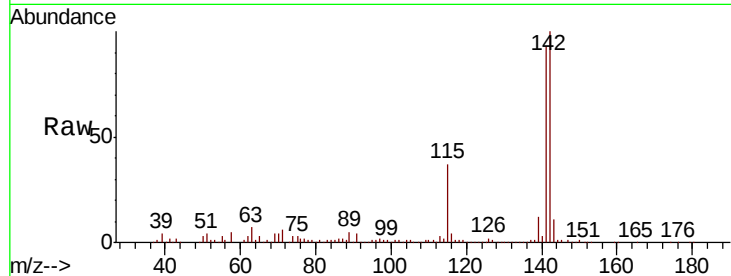
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1-Methylnaphthalene
Concen: 13.089 ng
RT: 8.92 min Scan# 1161
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	Ratio	Resp	Lower	Upper
142	100	258374		
141	92.6	73.8	110.8	
116	3.6	3.3	4.9	

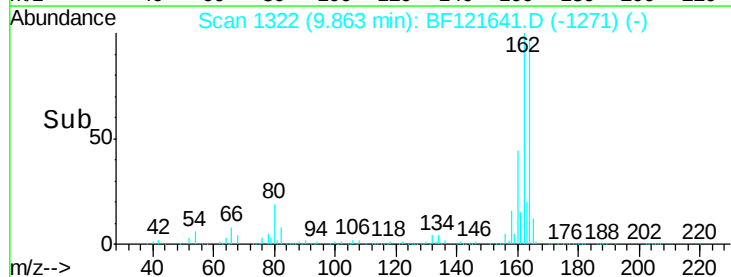
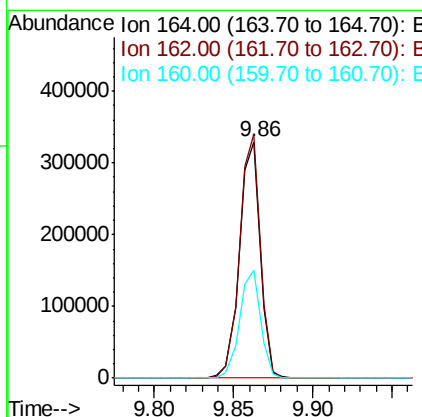
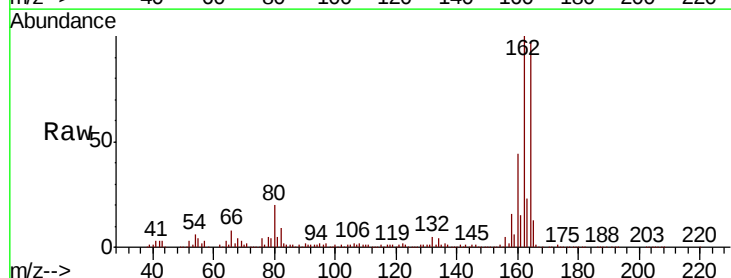
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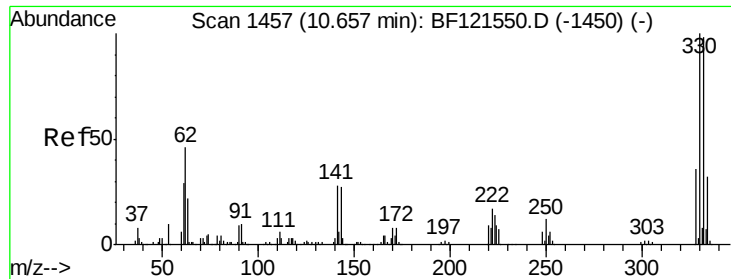
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	299171		
162	103.0	81.2	121.8	
160	45.6	36.2	54.4	





#42

2,4,6-Tribromophenol

Concen: 27.890 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

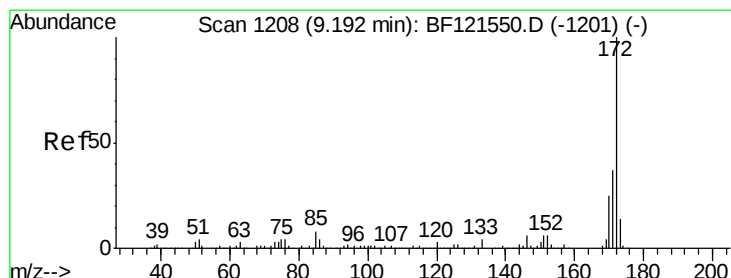
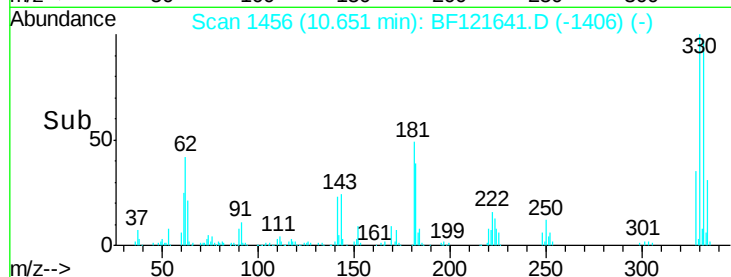
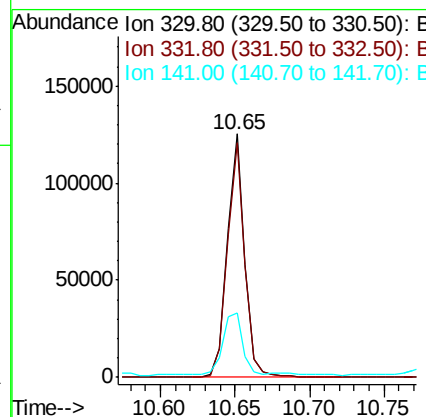
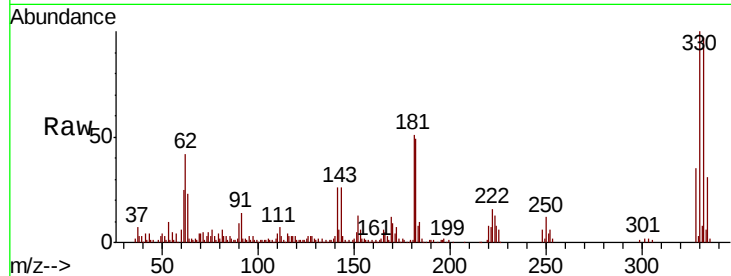
ClientSampleId :

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Tot Ion:	330	Resp:	103705
Ion Ratio	Lower	Upper	
330	100		
332	96.7	76.9	115.3
141	28.0	22.4	33.6

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#45

2-Fluorobiphenyl

Concen: 31.754 ng

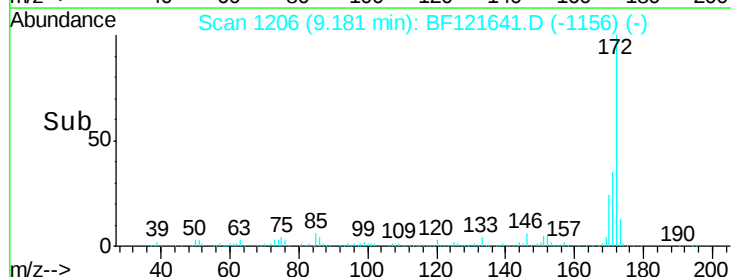
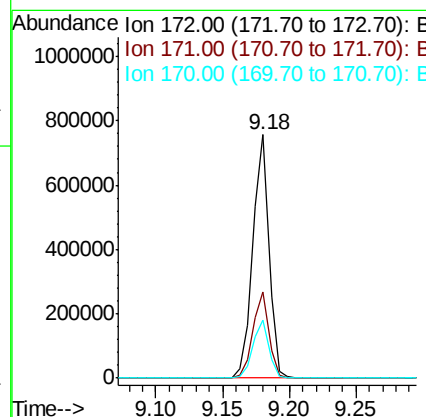
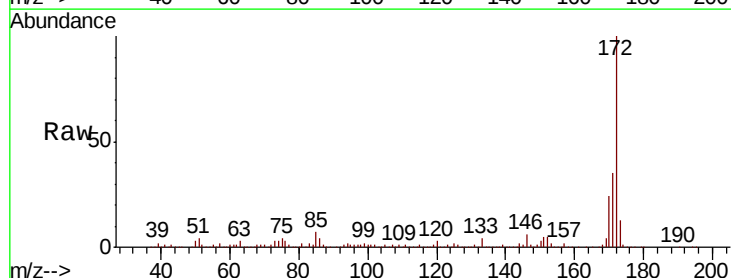
RT: 9.18 min Scan# 1206

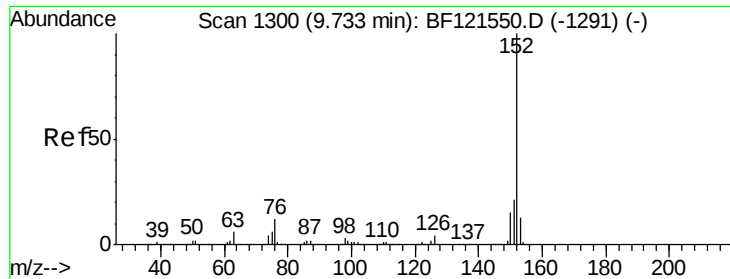
Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	172	Resp:	627258
Ion Ratio	Lower	Upper	
172	100		
171	35.4	29.3	43.9
170	23.6	19.5	29.3





#49

Acenaphthylene

Concen: 2.303 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

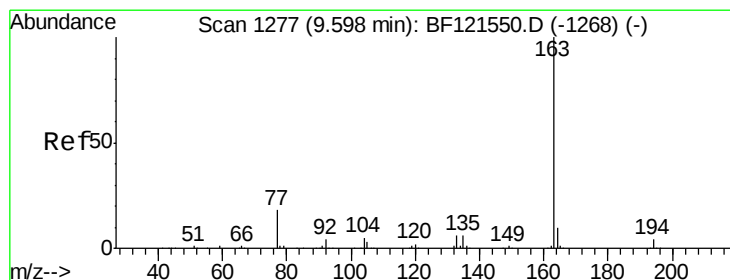
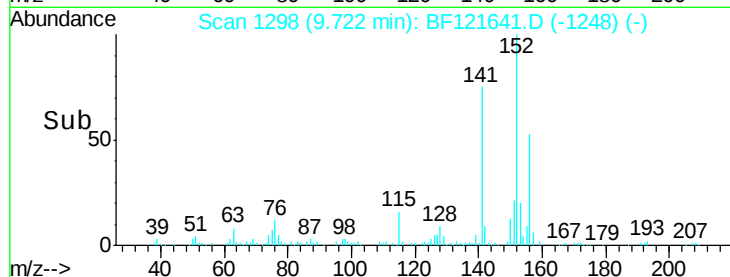
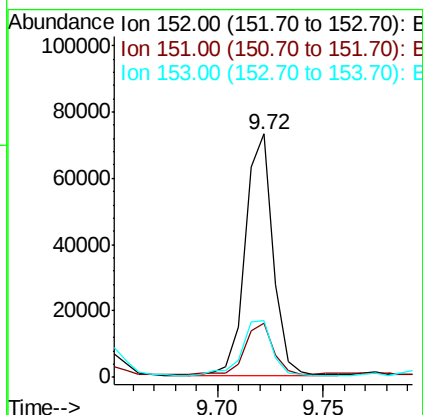
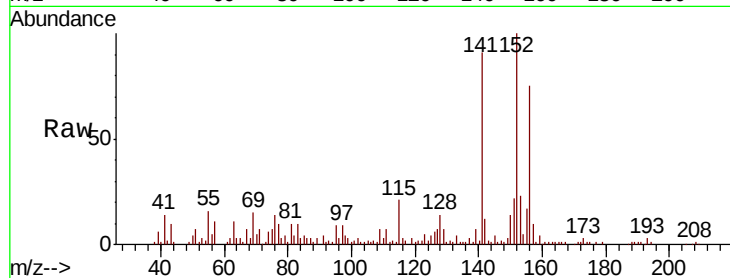
ClientSampleId :

OR-02-091820

Tot Ion:	152	Resp:	66785
Ion Ratio	Lower	Upper	
152	100		
151	22.5	16.3	24.5
153	23.5	10.7	16.1

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#50

Dimethylphthalate

Concen: 3.977 ng

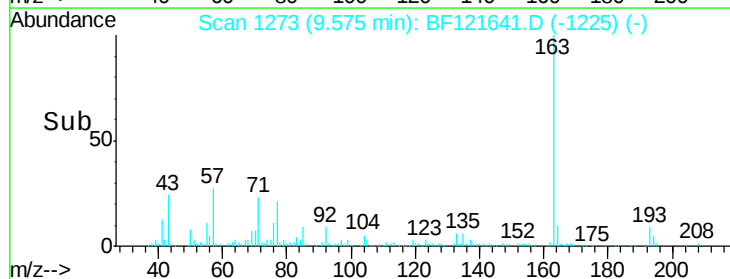
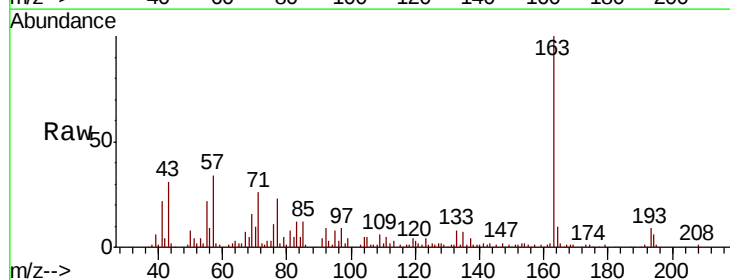
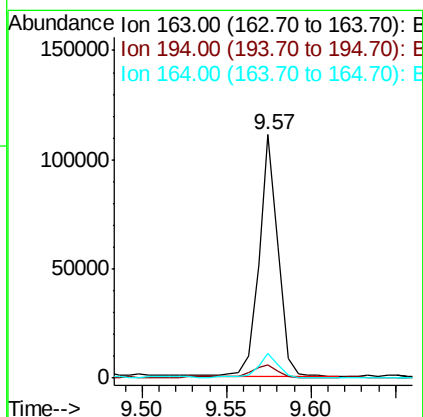
RT: 9.57 min Scan# 1273

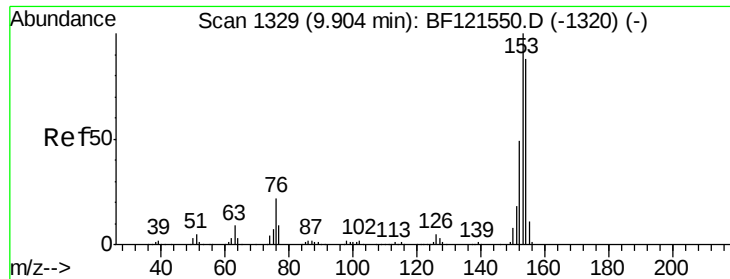
Delta R.T. -0.02 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	163	Resp:	86231
Ion Ratio	Lower	Upper	
163	100		
194	5.6	3.3	4.9
164	10.0	8.0	12.0





#52

Acenaphthene

Concen: 16.371 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

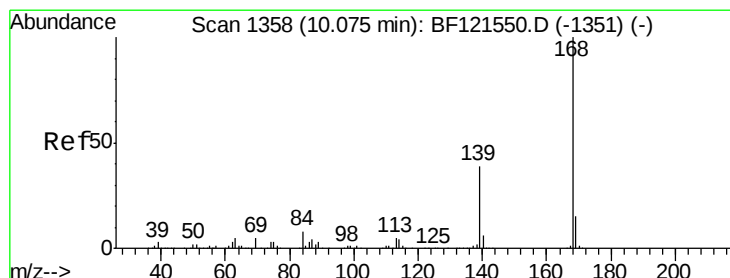
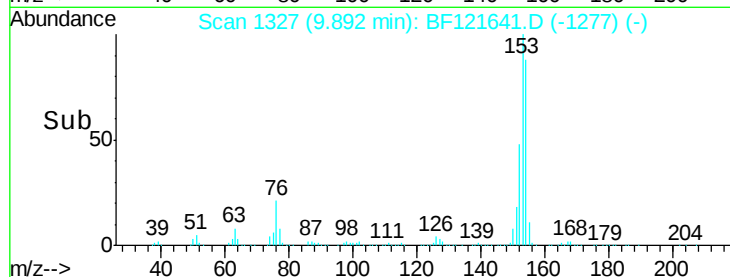
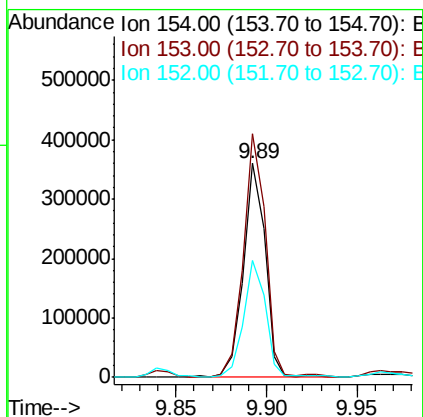
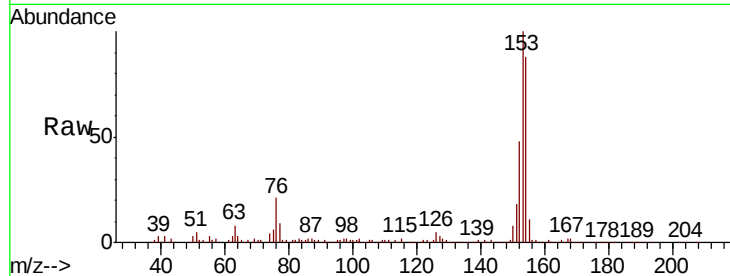
ClientSampleId :

OR-02-091820

Tot Ion:	154	Resp:	299854
Ion Ratio	Lower	Upper	
154	100		
153	114.0	89.9	134.9
152	54.6	43.8	65.6

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#55

Dibenzofuran

Concen: 9.382 ng

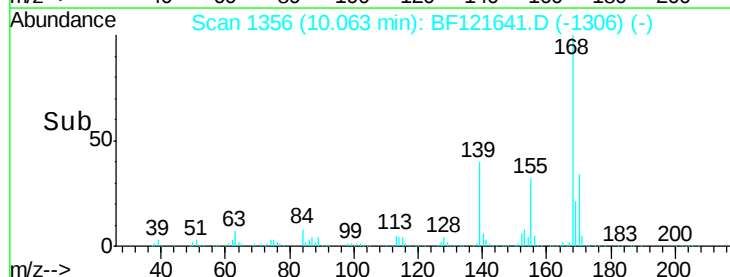
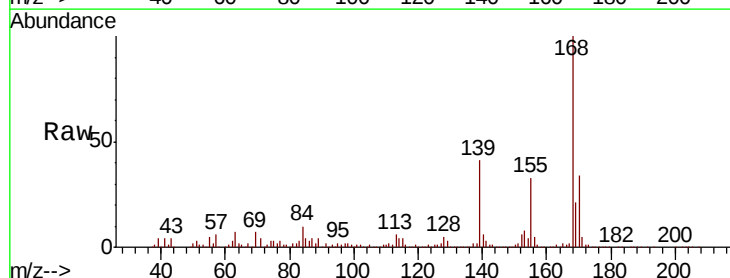
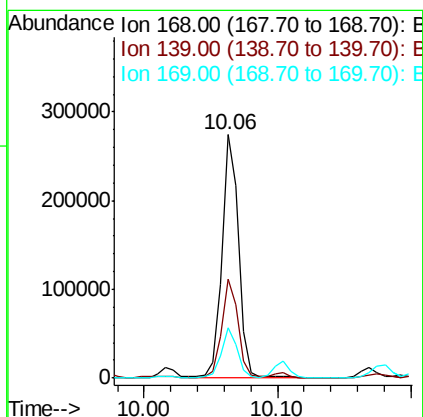
RT: 10.06 min Scan# 1356

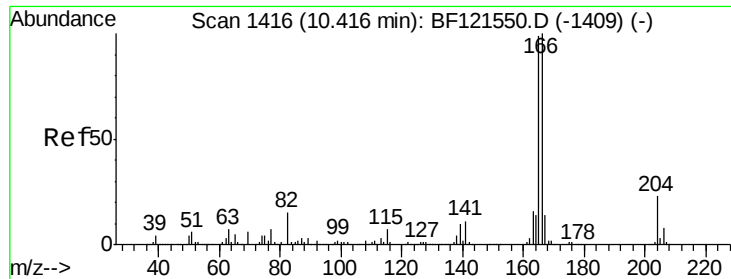
Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	168	Resp:	242009
Ion Ratio	Lower	Upper	
168	100		
139	40.6	31.8	47.8
169	20.9	11.6	17.4#





#58

Fluorene

Concen: 25.974 ng

RT: 10.41 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

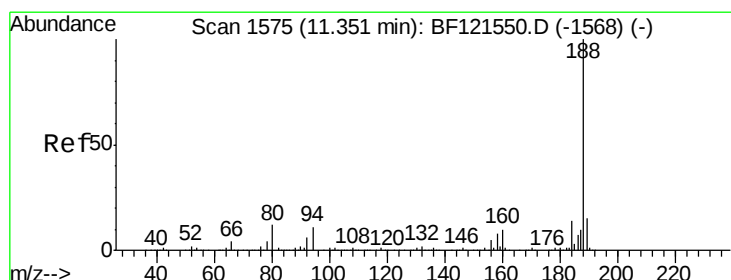
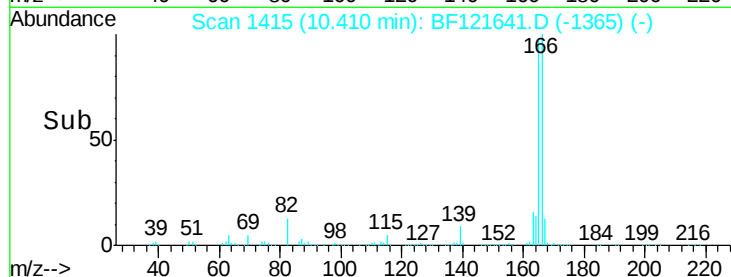
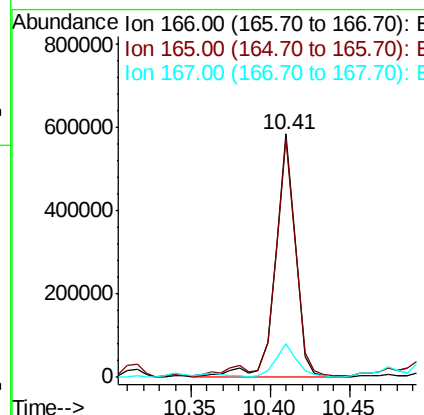
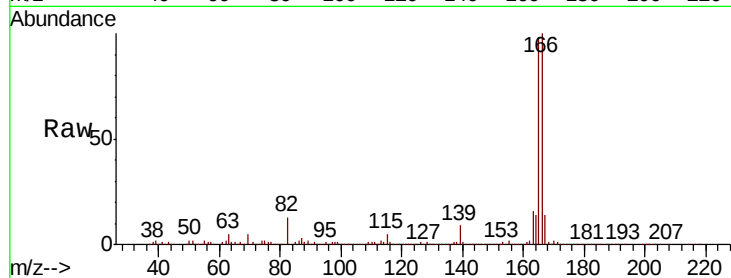
ClientSampleId :

OR-02-091820

Tot Ion:	166	Resp:	512336
Ion Ratio	Lower	Upper	
166	100		
165	97.7	80.1	120.1
167	13.9	10.8	16.2

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#64

Phenanthrene-d10

Concen: 20.000 ng

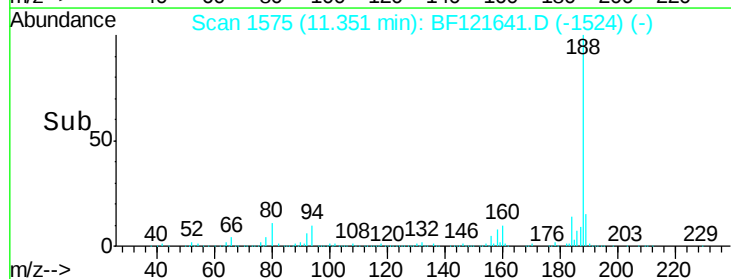
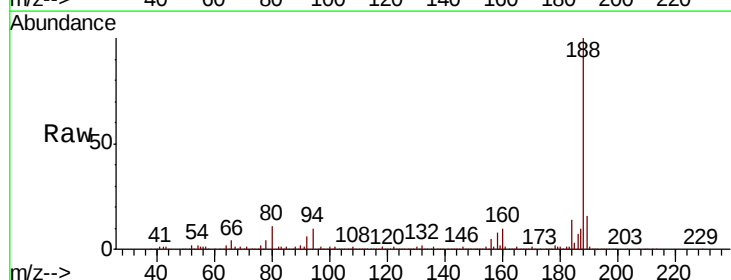
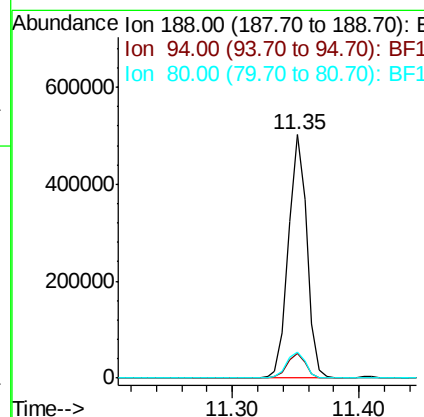
RT: 11.35 min Scan# 1575

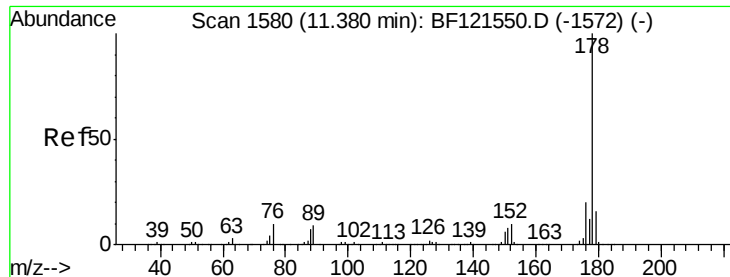
Delta R.T. 0.00 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	188	Resp:	505987
Ion Ratio	Lower	Upper	
188	100		
94	10.4	8.4	12.6
80	10.8	9.0	13.4





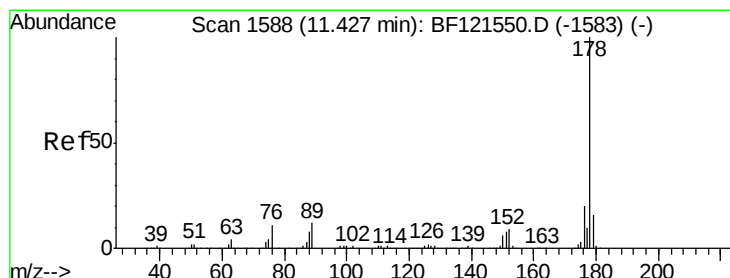
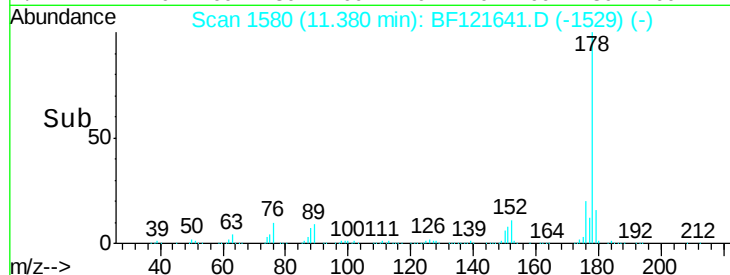
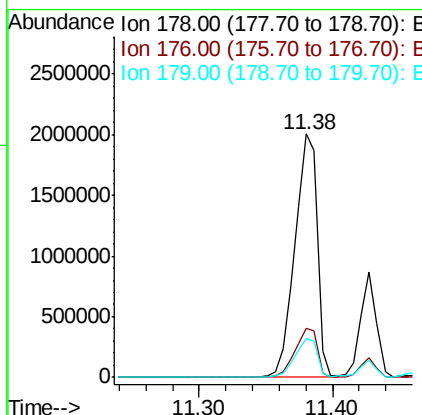
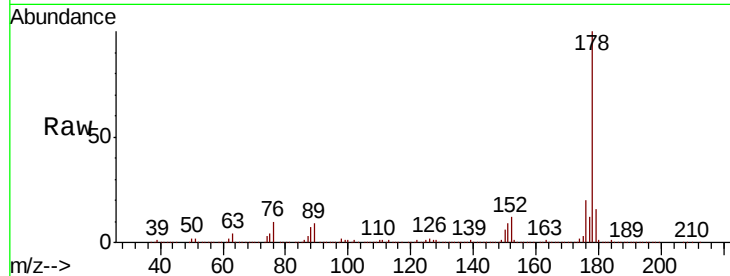
#71
Phenanthrene
Concen: 83.986 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.9	23.9
179	16.1	12.6	18.8

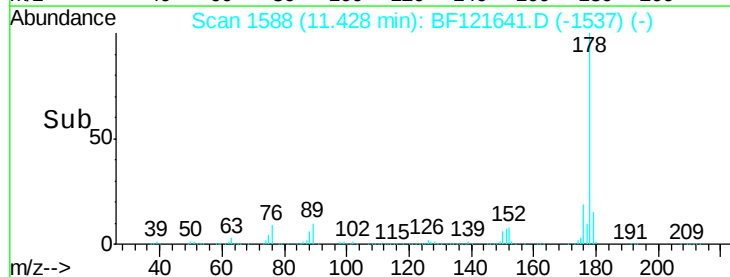
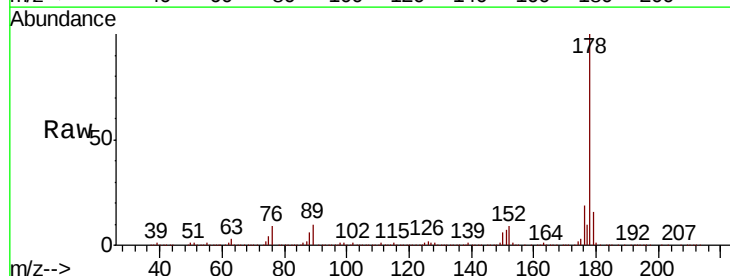
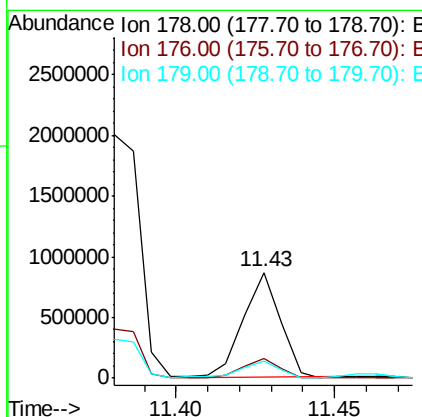
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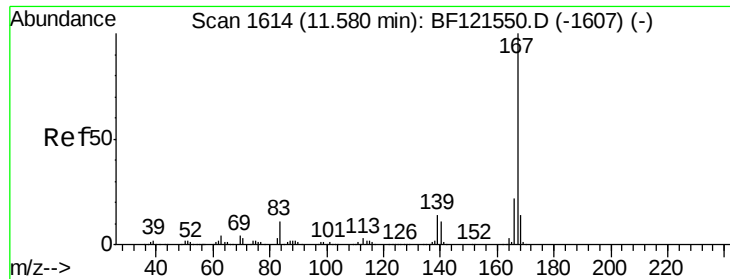
mohammad
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#72
Anthracene
Concen: 24.280 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.6	23.4
179	15.6	12.6	19.0





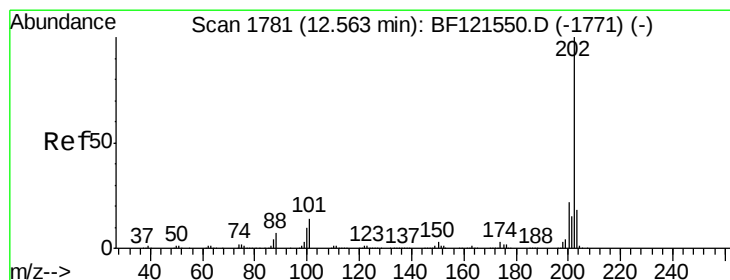
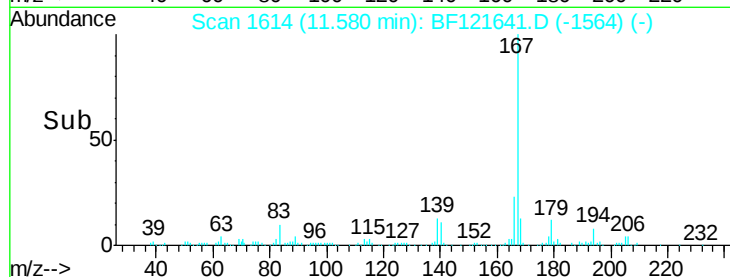
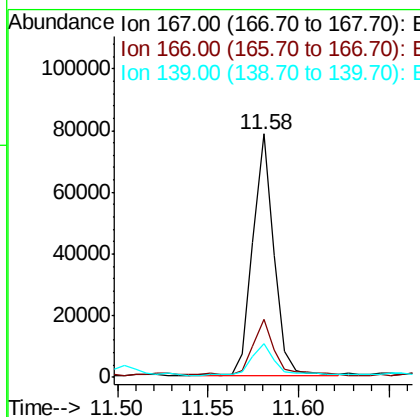
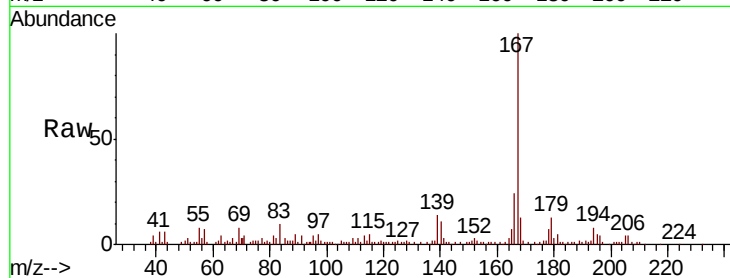
#73
 Carbazole
 Concen: 2.468 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091820

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.6	17.8	26.6
139	13.8	10.9	16.3

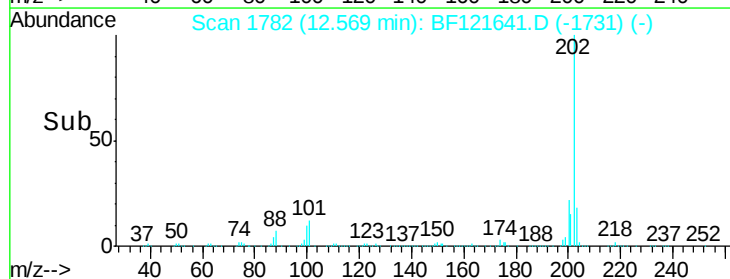
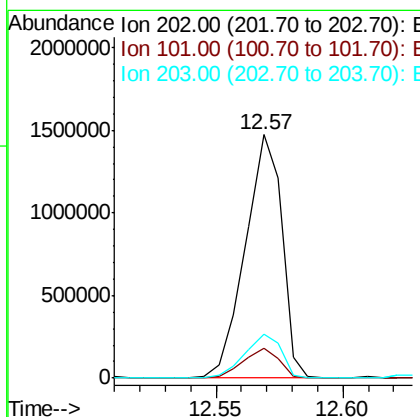
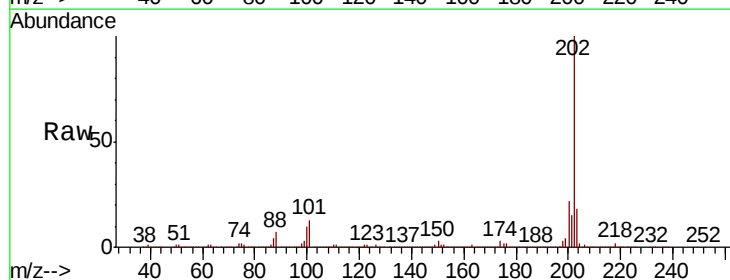
Manual Integrations
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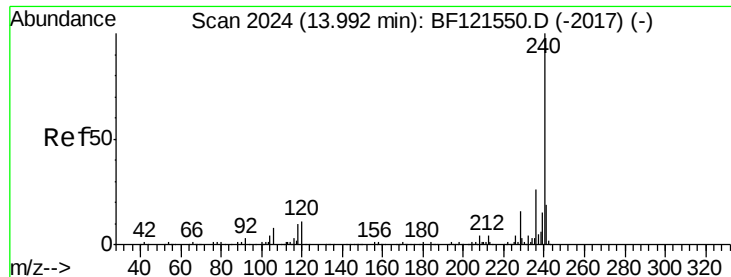
mohammad
 9/22/2020 10:09:17 AM



#75
 Fluoranthene
 Concen: 50.357 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.9
203	18.3	0.0	37.8





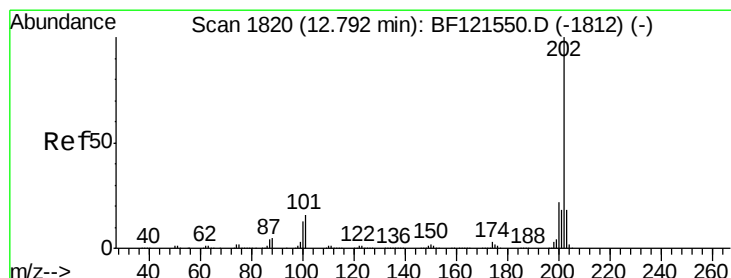
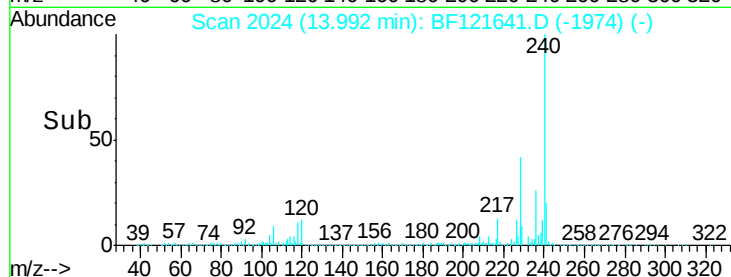
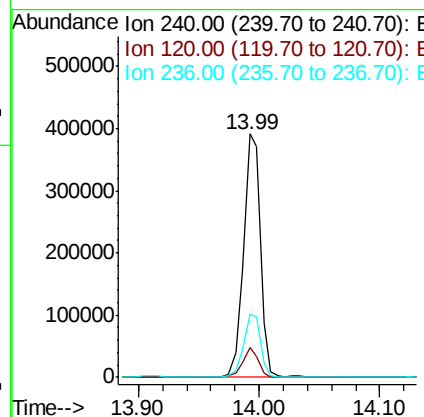
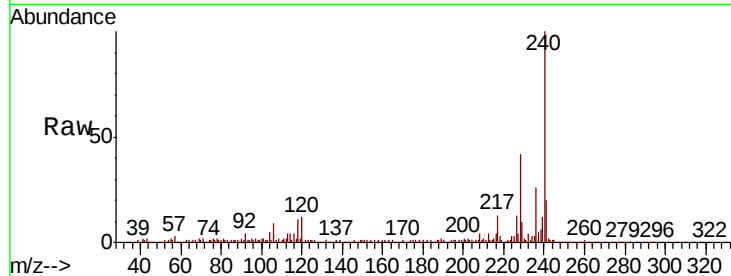
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.2	13.8
236	26.1	20.4	30.6

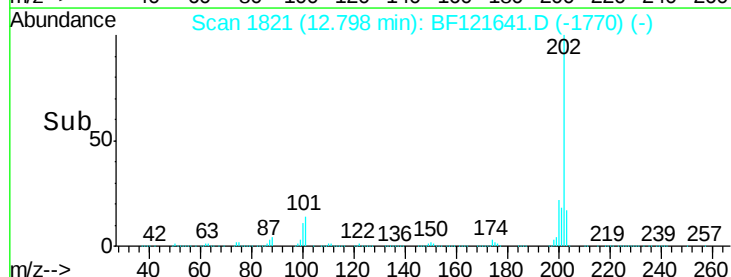
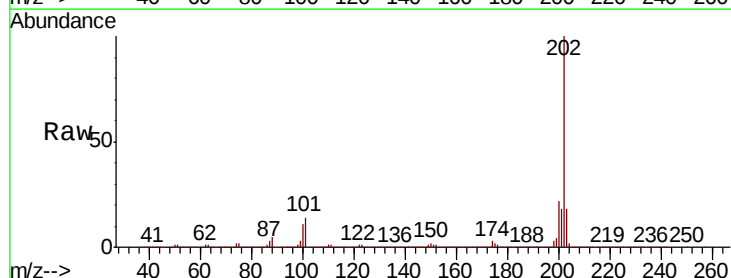
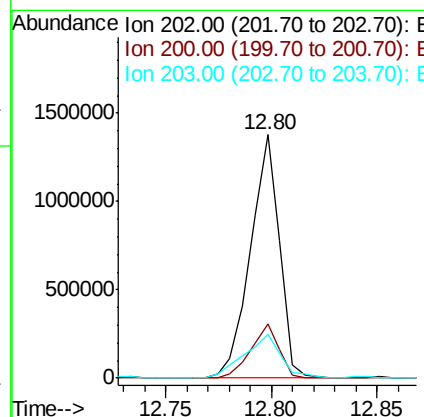
Manual Integrations
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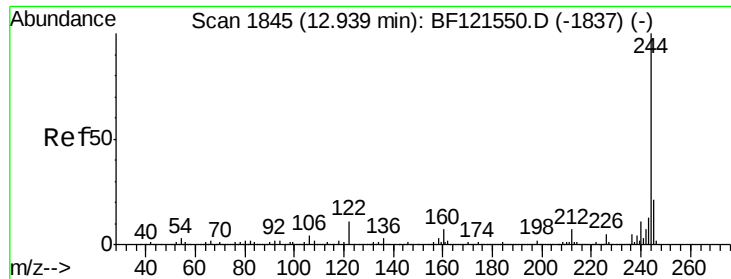
mohammad
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#78
Pyrene
Concen: 47.212 ng
RT: 12.80 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.8	26.6
203	17.9	14.4	21.6





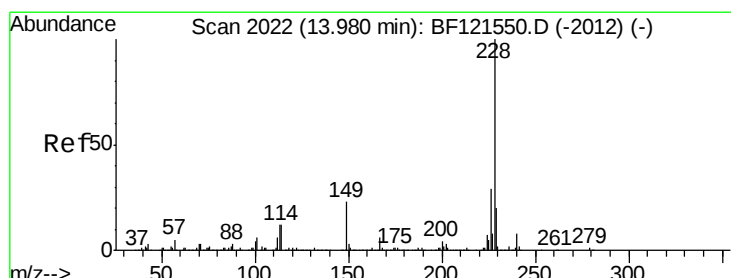
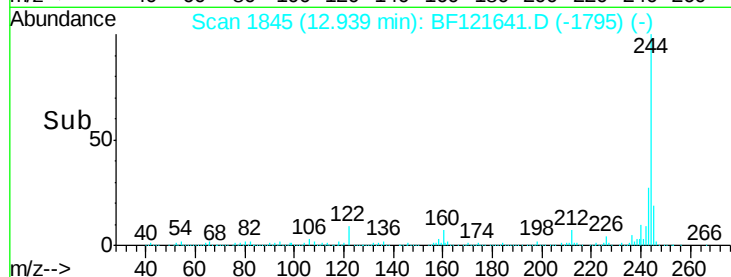
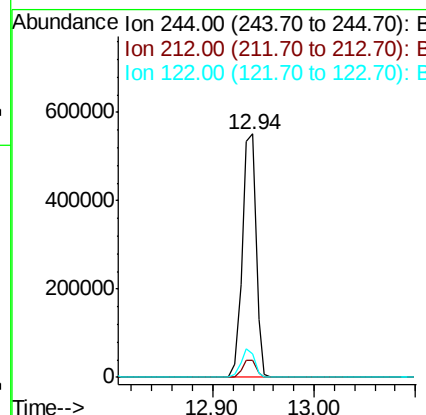
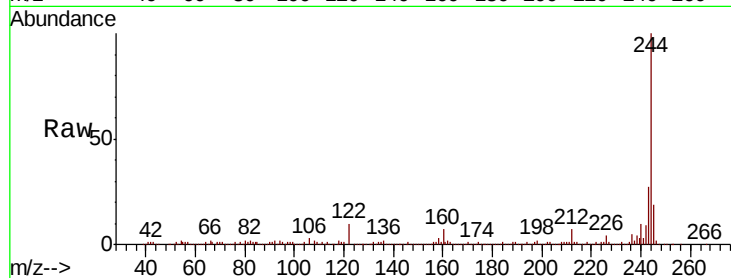
#79
 Terphenyl-d14
 Concen: 27.782 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-091820

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.5	7.4	11.0

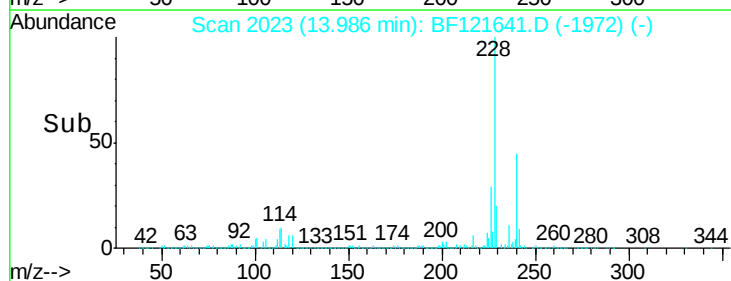
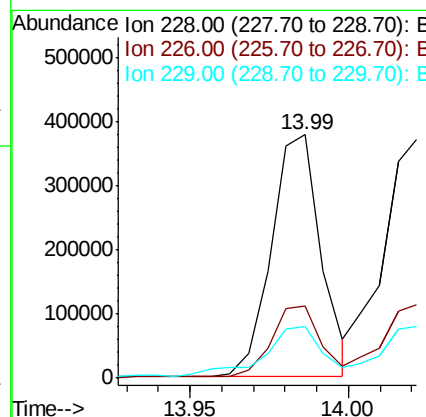
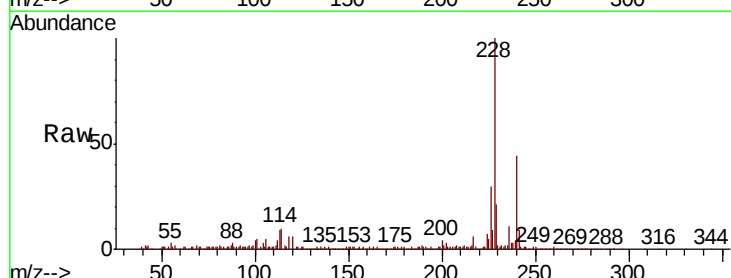
Manual Integrations
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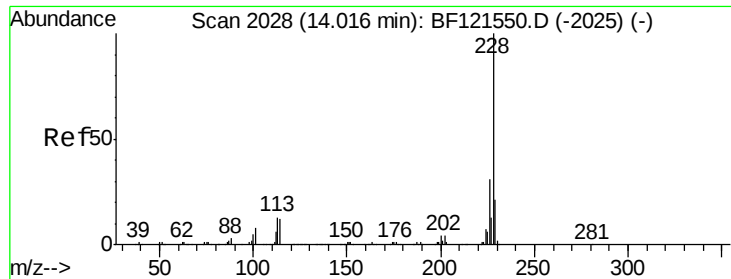
mohammad
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#81
 Benzo(a)anthracene
 Concen: 17.088 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. 0.00 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	21.1	16.2	24.2





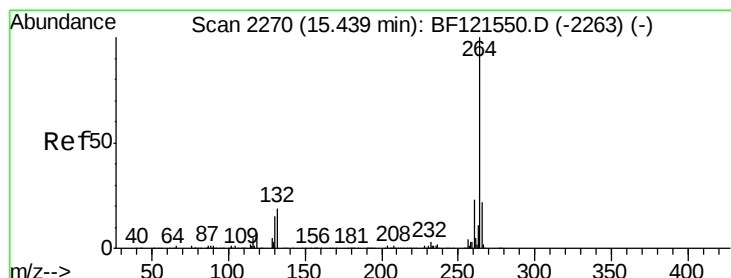
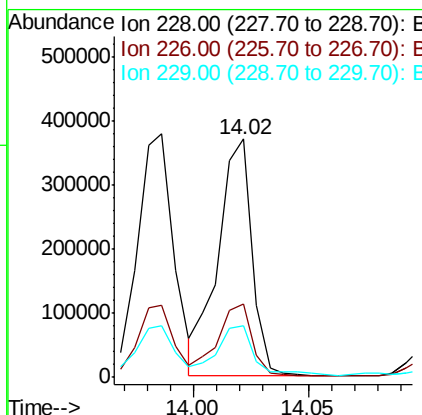
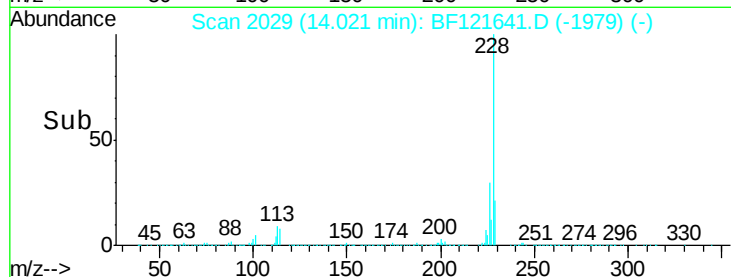
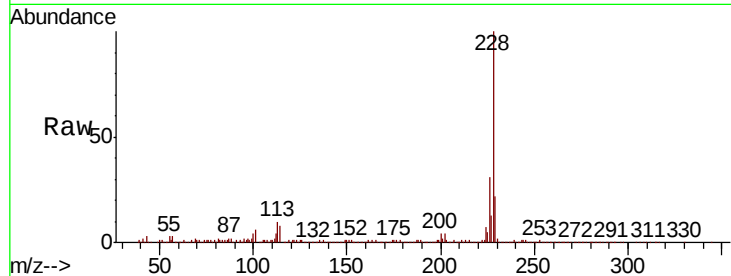
#83
 Chrysene
 Concen: 15.613 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Instrument :
 BNA_F
 ClientSampleID :
 OR-02-091820

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	30.9	25.0	37.4		
229	21.9	16.0	24.0		

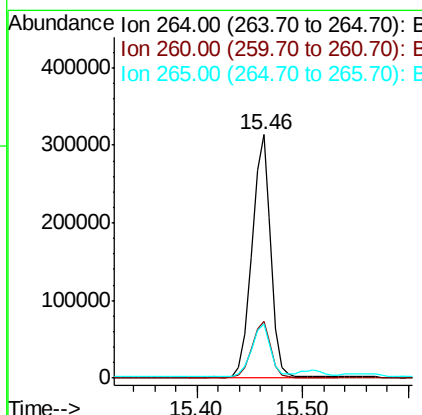
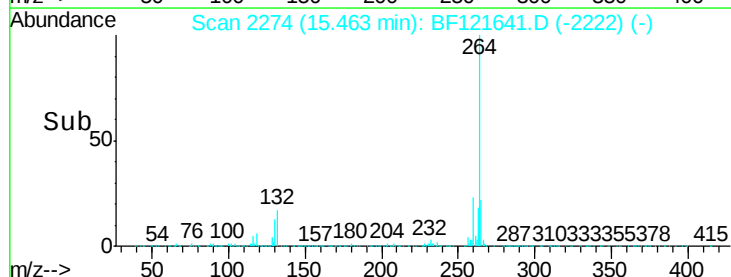
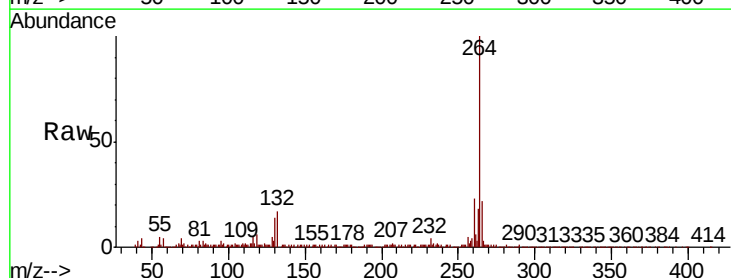
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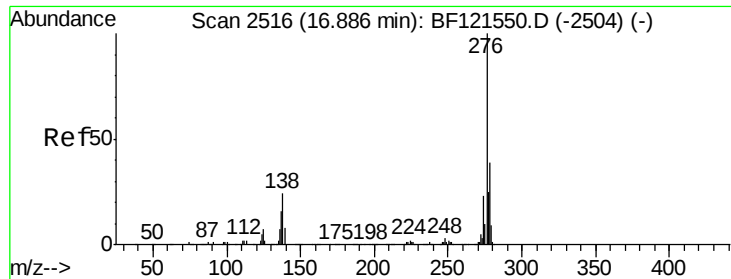
mohammad
 9/22/2020 10:09:17 AM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. 0.01 min
 Lab File: BF121641.D
 Acq: 21 Sep 2020 22:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
264	100				
260	23.5	18.8	28.2		
265	22.4	17.3	25.9		





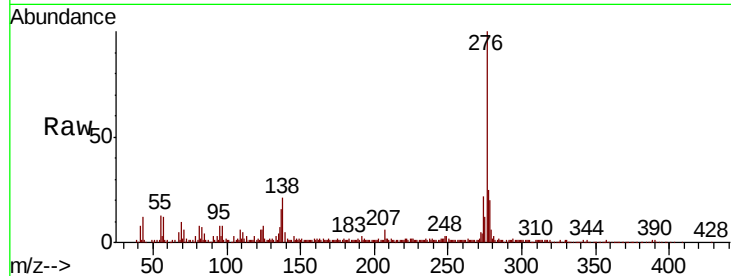
#87
Indeno(1,2,3-cd)pyrene
Concen: 7.793 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	Ratio	Resp	Lower	Upper
276	100	198151		
138	19.9		19.0	28.6
277	24.2		20.2	30.2

Manual Integrations
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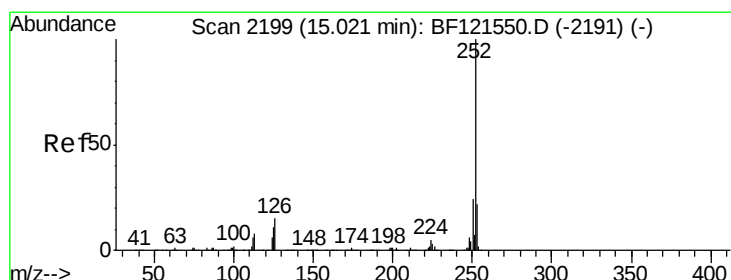
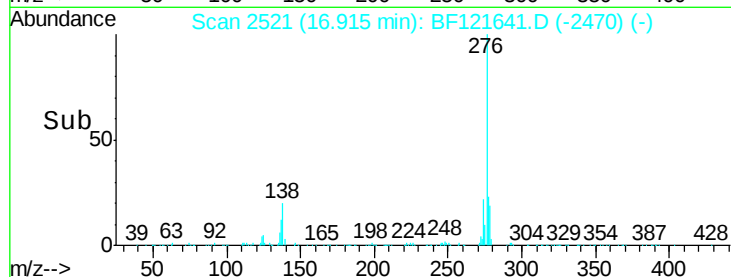
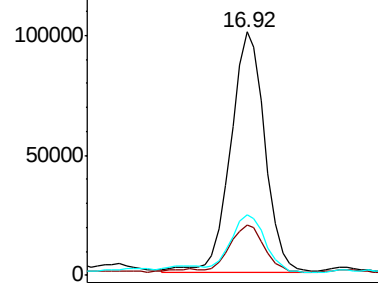


Abundance

Ion 276.00 (275.70 to 276.70): E

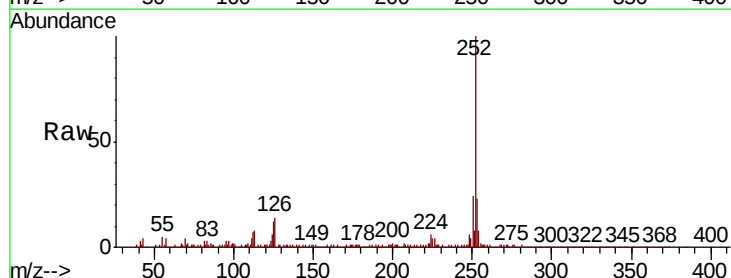
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#88
Benzo(b)fluoranthene
Concen: 17.317 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	451964		
253	23.3		18.2	27.4
125	11.5		8.5	12.7

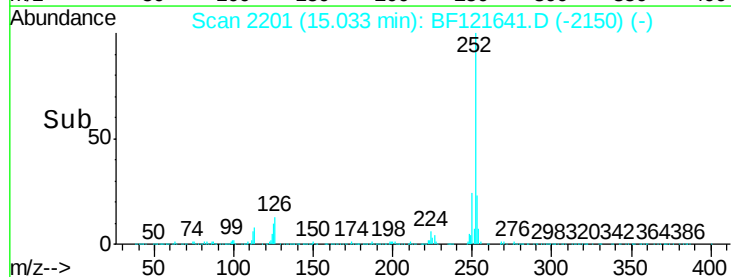
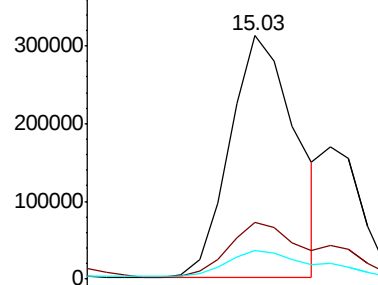


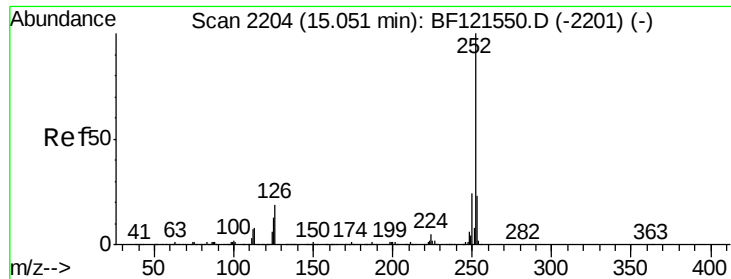
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





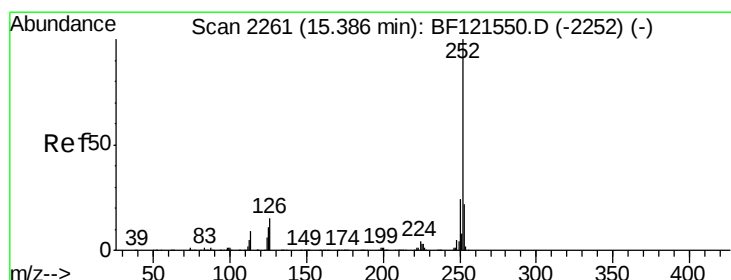
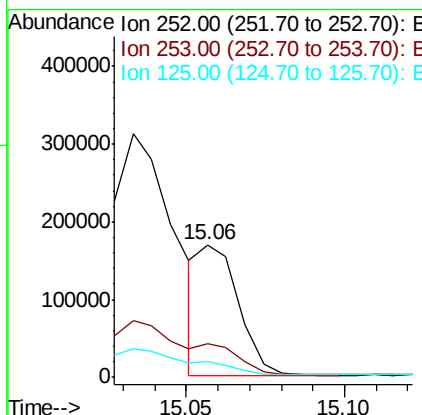
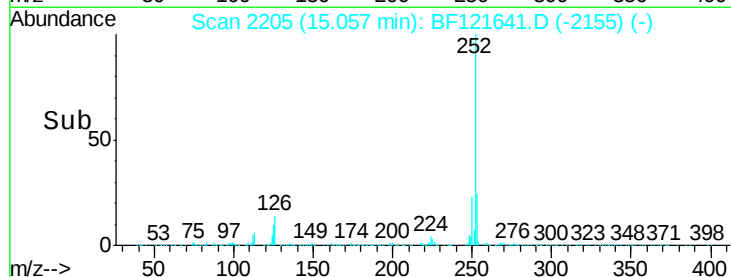
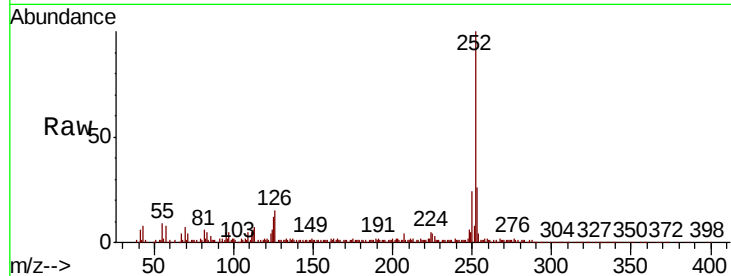
#89
Benzo(k)fluoranthene
Concen: 5.939 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Instrument :
BNA_F
ClientSampleId :
OR-02-091820

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.8	26.8
125	11.5	8.4	12.6

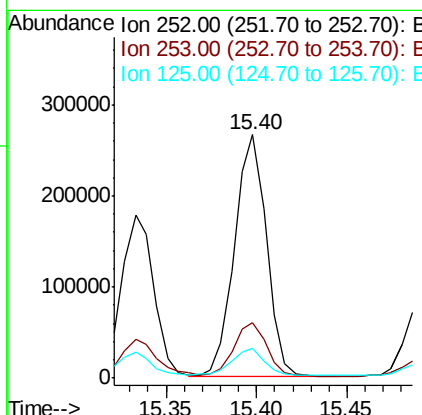
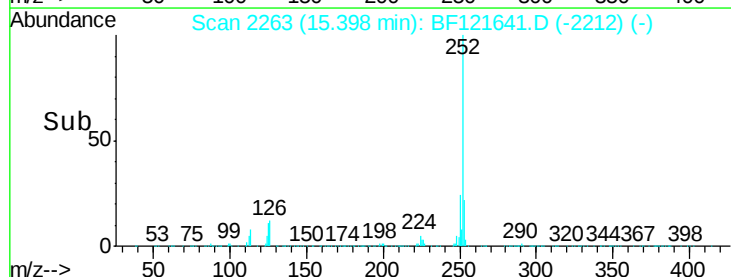
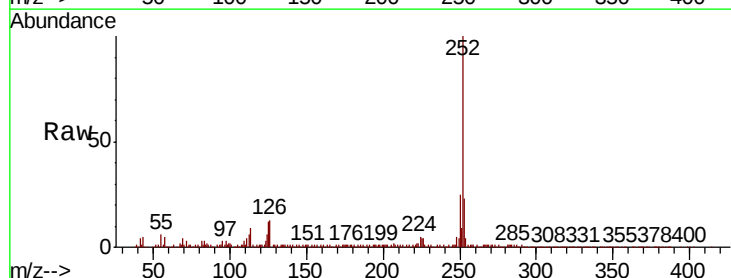
Manual Integrations
APPROVED

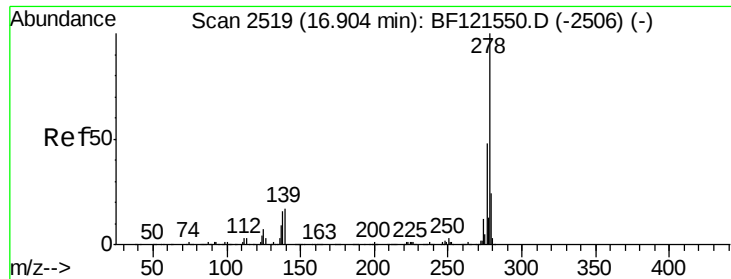
mohammad
9/22/2020 10:09:17 AM



#90
Benzo(a)pyrene
Concen: 14.742 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.00 min
Lab File: BF121641.D
Acq: 21 Sep 2020 22:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.2
125	12.1	9.1	13.7





#91

Dibenzo(a,h)anthracene

Concen: 2.510 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Instrument :

BNA_F

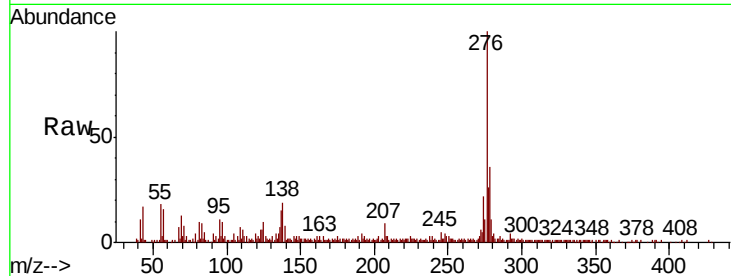
ClientSampleId :

OR-02-091820

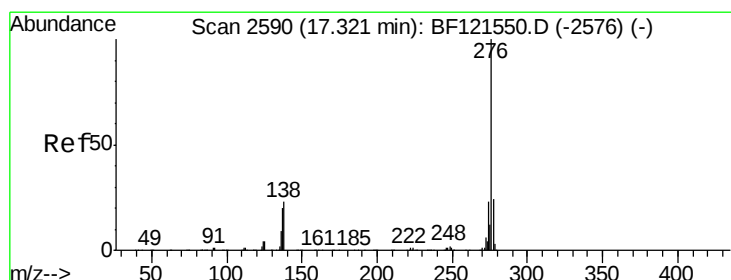
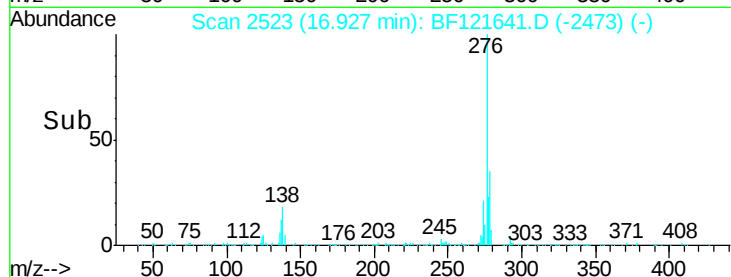
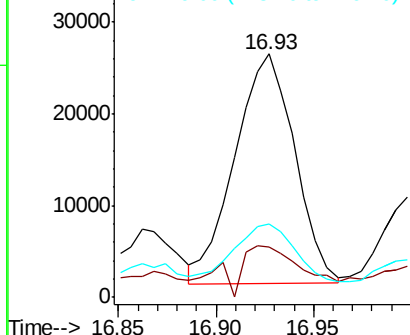
Tot Ion:	278	Resp:	53134
Ion Ratio	Lower	Upper	
278	100		
139	20.8	12.0	18.0#
279	30.1	19.4	29.2#

Manual Integrations
APPROVED

mohammad
9/22/2020 10:09:17 AM



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



#92

Benzo(g,h,i)perylene

Concen: 8.804 ng

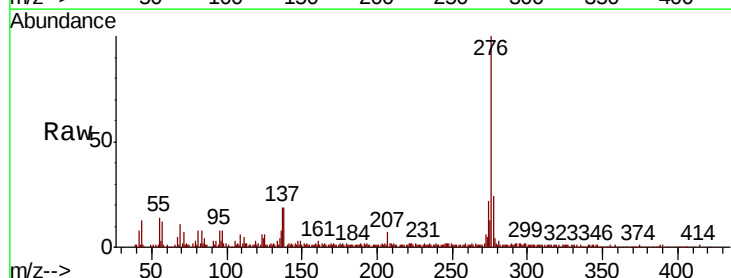
RT: 17.36 min Scan# 2596

Delta R.T. 0.00 min

Lab File: BF121641.D

Acq: 21 Sep 2020 22:43

Tgt Ion:	276	Resp:	183159
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.3	28.9
138	19.4	16.9	25.3



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

