

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121719\
 Data File : BF118227.D
 Acq On : 17 Dec 2019 15:37
 Operator : JU
 Sample : K6284-01MSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Manual Integrations
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 12/18/2019 2:41:08 PM

Quant Time: Dec 18 05:35:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	144334	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	589952	20.00	ng	0.00
39) Acenaphthene-d10	9.91	164	322943	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	585889	20.00	ng	0.00
76) Chrysene-d12	14.06	240	375299	20.00	ng	0.00
87) Perylene-d12	15.55	264	336249	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	781560	94.84	ng	0.00
7) Phenol-d6	6.50	99	1007717	101.10	ng	0.00
23) Nitrobenzene-d5	7.43	82	613685	58.52	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	357521	91.13	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1301932	61.34	ng	-0.01
79) Terphenyl-d14	13.00	244	1449555	66.42	ng	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.69	88	115262	33.171 ng	97
3) Pyridine	3.45	79	281768	31.431 ng	98
4) n-Nitrosodimethylamine	3.40	42	148182	38.423 ng	94
6) Aniline	6.53	93	200646	15.737 ng	97
8) 2-Chlorophenol	6.65	128	389205	41.885 ng	100
9) Benzaldehyde	6.41	77	128714	20.790 ng	97
10) Phenol	6.51	94	476808	41.946 ng	97
11) bis(2-Chloroethyl)ether	6.60	93	324227	39.438 ng	96
12) 1,3-Dichlorobenzene	6.80	146	409597	37.734 ng	96
13) 1,4-Dichlorobenzene	6.88	146	423036	38.703 ng	98
14) 1,2-Dichlorobenzene	7.03	146	400515	39.018 ng	98
15) Benzyl Alcohol	7.00	79	325588	41.846 ng	100
16) 2,2'-oxybis(1-Chloropropan	7.13	45	385508	39.000 ng	92
17) 2-Methylphenol	7.12	107	308029	41.679 ng	98
18) Hexachloroethane	7.37	117	152008	37.742 ng	98
19) n-Nitroso-di-n-propylamine	7.27	70	251384	41.505 ng	98
20) 3+4-Methylphenols	7.27	107	401926	43.296 ng	97
22) Acetophenone	7.27	105	530985	37.463 ng	# 97
24) Nitrobenzene	7.45	77	386443	37.508 ng	99
25) Isophorone	7.69	82	692318	38.945 ng	98
26) 2-Nitrophenol	7.76	139	215741	39.177 ng	91
27) 2,4-Dimethylphenol	7.80	122	325671	44.336 ng	99
28) bis(2-Chloroethoxy)methane	7.89	93	436931	37.614 ng	99
29) 2,4-Dichlorophenol	8.01	162	336795	39.331 ng	100
30) 1,2,4-Trichlorobenzene	8.09	180	363075	36.281 ng	98
31) Naphthalene	8.17	128	1146957	38.711 ng	100
32) Benzoic acid	7.93	122	185912	28.031 ng	98
33) 4-Chloroaniline	8.22	127	89709	7.012 ng	97
34) Hexachlorobutadiene	8.29	225	217273	36.207 ng	99
35) Caprolactam	8.60	113	96591m	36.577 ng	
36) 4-Chloro-3-methylphenol	8.72	107	360174	39.968 ng	97
37) 2-Methylnaphthalene	8.86	142	794715	39.619 ng	99
38) 1-Methylnaphthalene	8.96	142	742391	39.417 ng	98
40) 1,2,4,5-Tetrachlorobenzene	9.03	216	358246	36.619 ng	99

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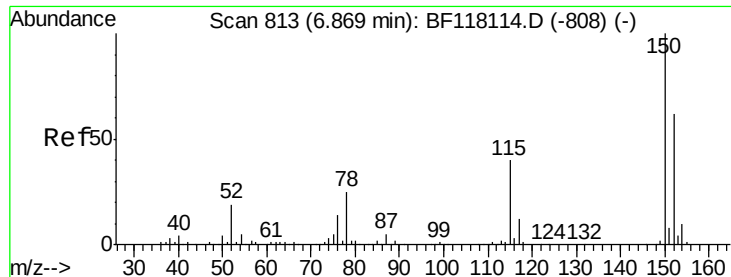
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 12/18/2019 2:41:08 PM

Quant Time: Dec 18 05:35:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.02	237	361135	82.389	nq	98
43) 2,4,6-Trichlorophenol	9.15	196	248736	38.080	nq	99
44) 2,4,5-Trichlorophenol	9.19	196	258541	38.204	nq	97
46) 1,1'-Biphenyl	9.33	154	970784	38.115	nq	99
47) 2-Chloronaphthalene	9.36	162	743681	36.298	nq	96
48) 2-Nitroaniline	9.46	65	199455	34.137	nq	96
49) Acenaphthylene	9.77	152	1180597	39.068	nq	99
50) Dimethylphthalate	9.63	163	950772	39.858	nq	99
51) 2,6-Dinitrotoluene	9.70	165	200928	38.738	nq	99
52) Acenaphthene	9.95	154	688854	37.347	nq	98
53) 3-Nitroaniline	9.87	138	86509	14.172	nq	97
54) 2,4-Dinitrophenol	9.98	184	172013	66.657	nq	99
55) Dibenzofuran	10.12	168	1032731	38.212	nq	99
56) 4-Nitrophenol	10.05	139	290246	68.515	nq	97
57) 2,4-Dinitrotoluene	10.11	165	264934	38.268	nq	95
58) Fluorene	10.46	166	827212	38.515	nq	100
59) 2,3,4,6-Tetrachlorophenol	10.24	232	215699	38.633	nq	99
60) Diethylphthalate	10.33	149	915233	38.942	nq	99
61) 4-Chlorophenyl-phenylether	10.45	204	414007	38.310	nq	95
62) 4-Nitroaniline	10.49	138	203720	31.999	nq	99
63) Azobenzene	10.62	77	775225	38.639	nq	98
65) 4,6-Dinitro-2-methylphenol	10.52	198	129550	40.039	nq	90
66) n-Nitrosodiphenylamine	10.57	169	729694	39.882	nq	100
67) 4-Bromophenyl-phenylether	10.95	248	261445	39.091	nq	# 92
68) Hexachlorobenzene	11.02	284	294605	37.425	nq	98
69) Atrazine	11.10	200	218169	44.558	nq	98
70) Pentachlorophenol	11.22	266	269013	72.668	nq	98
71) Phenanthrene	11.43	178	1253152	40.236	nq	99
72) Anthracene	11.49	178	1237065	39.816	nq	100
73) Carbazole	11.64	167	1050115	37.671	nq	100
74) Di-n-butylphthalate	11.96	149	1432476	41.060	nq	99
75) Fluoranthene	12.63	202	1304135	40.955	nq	98
77) Benzidine	12.75	184	250324	25.337	nq	99
78) Pyrene	12.86	202	1344359	45.456	nq	99
80) Butylbenzylphthalate	13.47	149	575251	42.948	nq	100
81) Benzo(a)anthracene	14.05	228	1031698	39.756	nq	100
82) 3,3'-Dichlorobenzidine	14.01	252	128480	15.075	nq	100
83) Chrysene	14.09	228	992040	40.020	nq	100
84) Bis(2-ethylhexyl)phthalate	14.03	149	840411	47.584	nq	100
85) Di-n-octyl phthalate	14.64	149	1302949	48.701	nq	100
86) Indeno(1,2,3-cd)pyrene	17.07	276	870062	41.715	nq	99
88) Benzo(b)fluoranthene	15.12	252	874179	39.309	nq	99
89) Benzo(k)fluoranthene	15.14	252	818517	38.313	nq	99
90) Benzo(a)pyrene	15.49	252	798357	40.648	nq	98
91) Dibenzo(a,h)anthracene	17.08	278	718536	42.653	nq	99
92) Benzo(g,h,i)perylene	17.52	276	715132	44.177	nq	98

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



#1

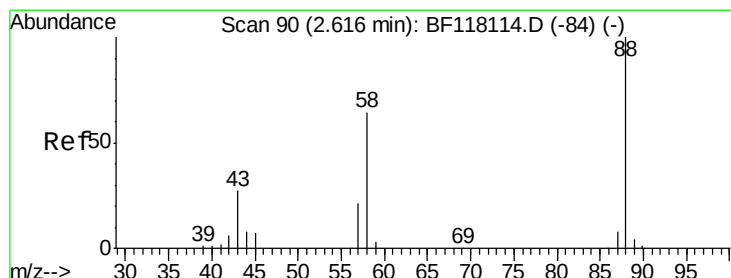
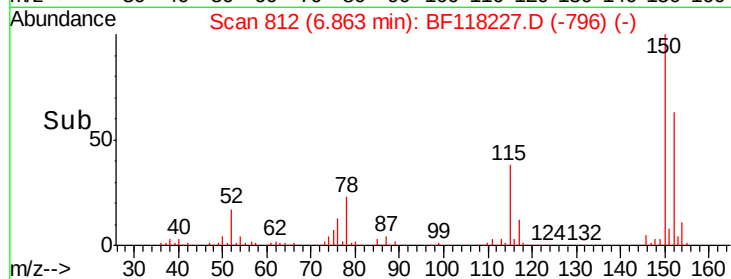
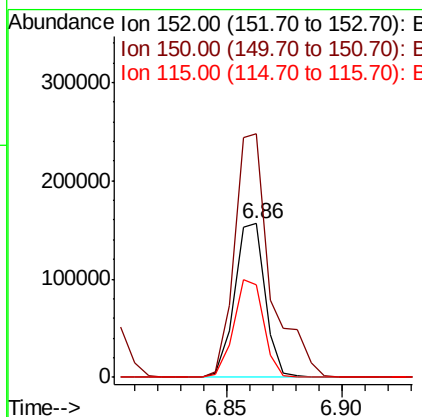
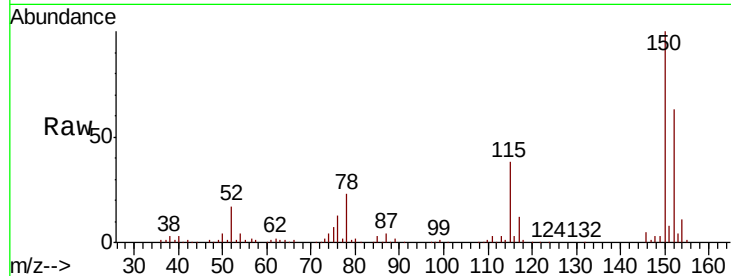
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	128.3	192.5
115	60.5	51.1	76.7

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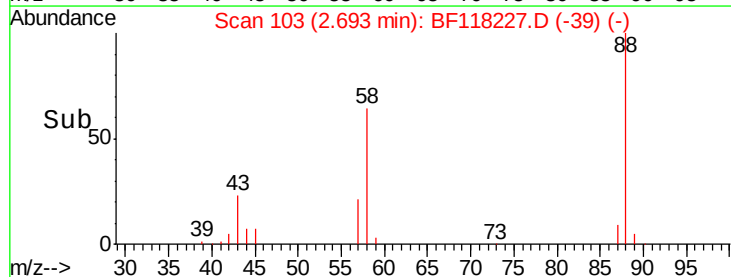
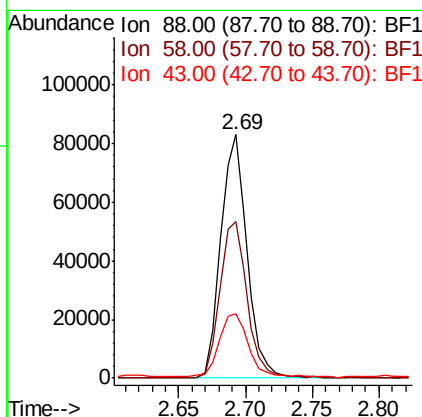
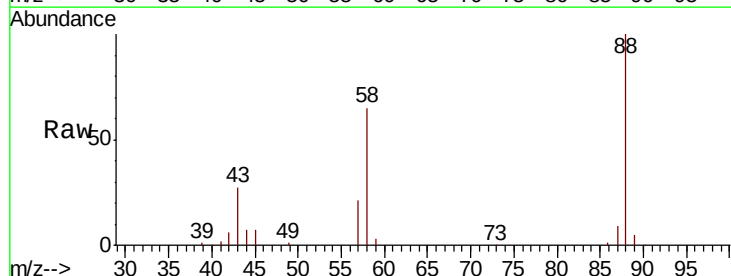
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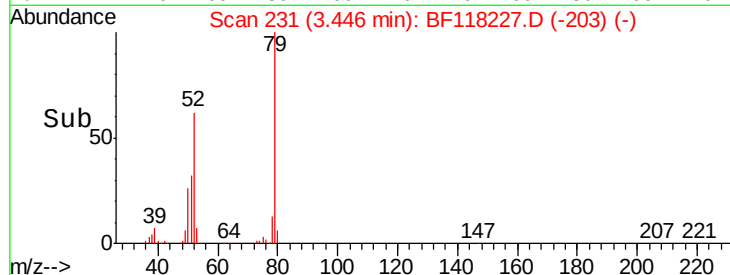
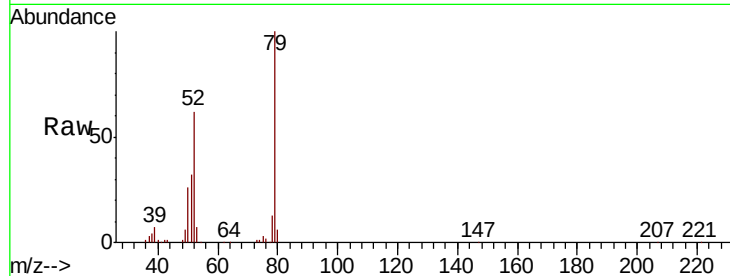
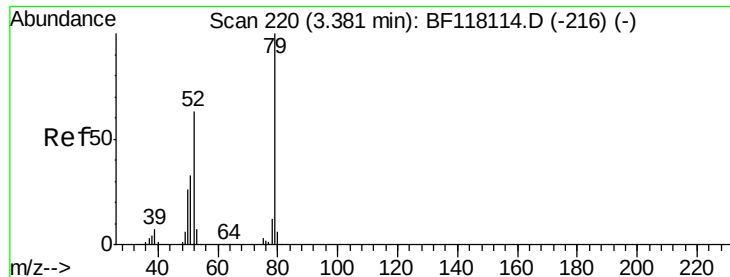


#2

1,4-Dioxane
Concen: 33.171 ng
RT: 2.69 min Scan# 103
Delta R.T. 0.08 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
88	100		
58	67.0	52.2	78.4
43	28.9	21.4	32.2





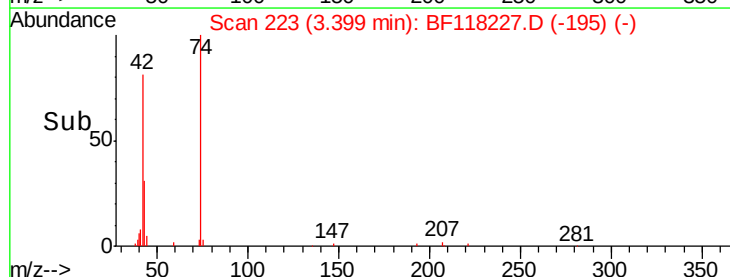
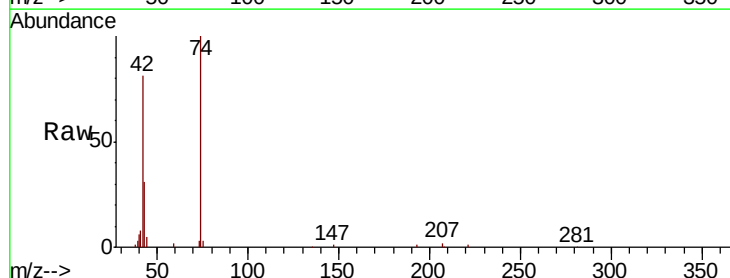
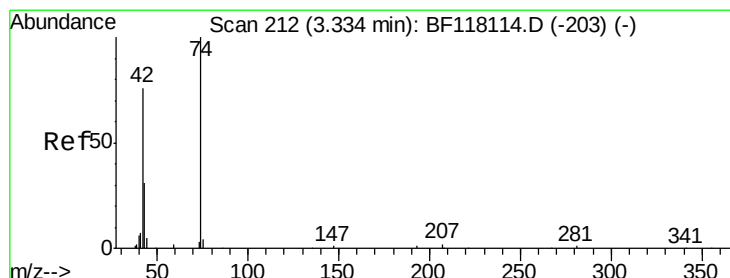
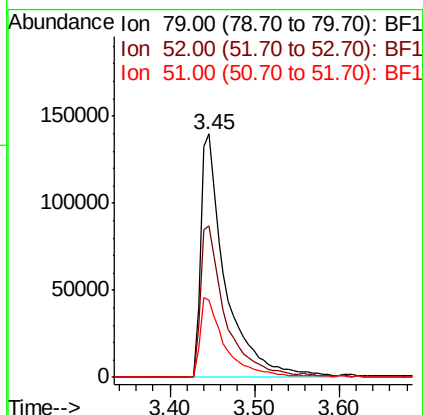
#3
Pvridine
Concen: 31.431 ng
RT: 3.45 min Scan# 231
Delta R.T. 0.06 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tot Ion	Ratio	Lower	Upper
79	100		
52	62.0	50.7	76.1
51	32.0	26.4	39.6

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

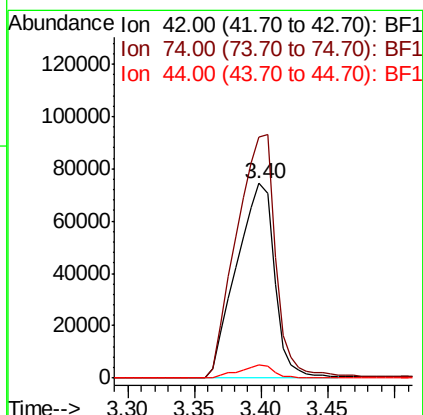
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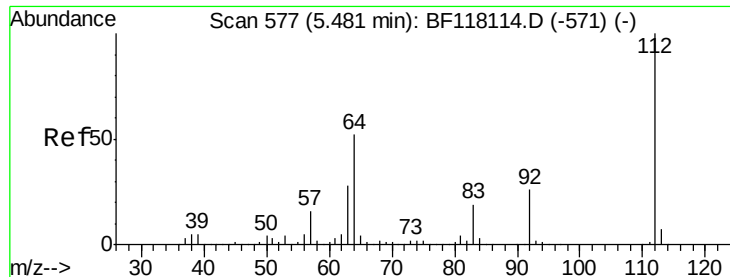
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#4
n-Nitrosodimethylamine
Concen: 38.423 ng
RT: 3.40 min Scan# 223
Delta R.T. 0.06 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
42	100		
74	123.8	104.6	157.0
44	6.5	5.1	7.7





#5

2-Fluorophenol

Concen: 94.841 ng

RT: 5.49 min Scan# 578

Delta R.T. 0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

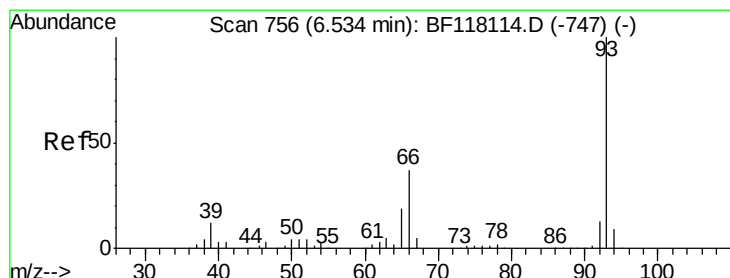
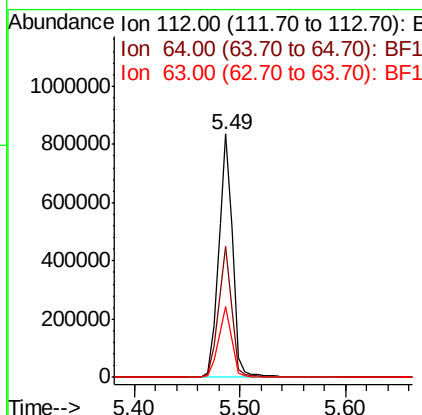
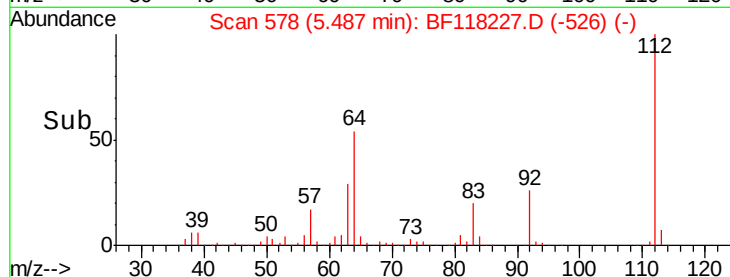
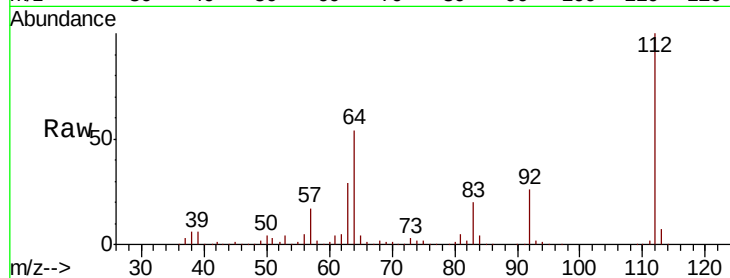
ClientSampleId :

42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
112	100	781560		
64	53.9	41.3	61.9	
63	29.2	22.4	33.6	

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#6

Aniline

Concen: 15.737 ng

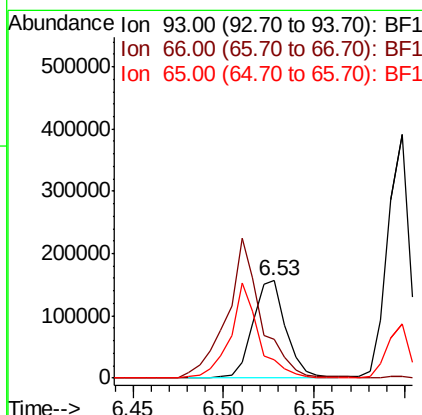
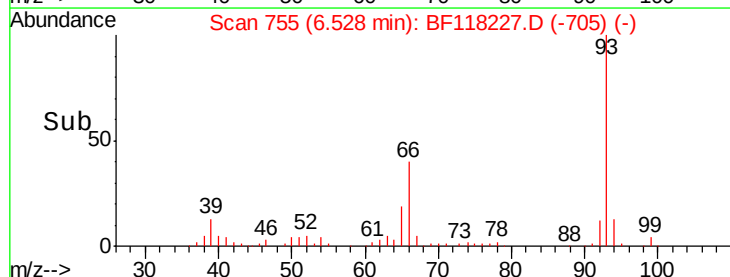
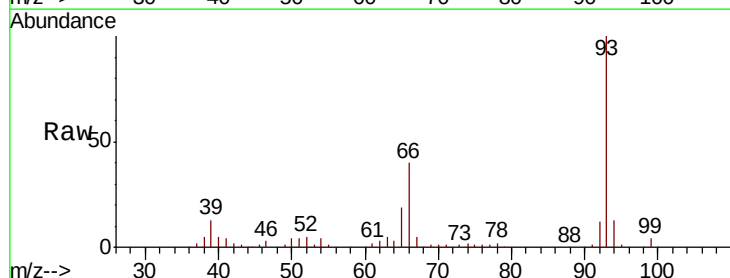
RT: 6.53 min Scan# 755

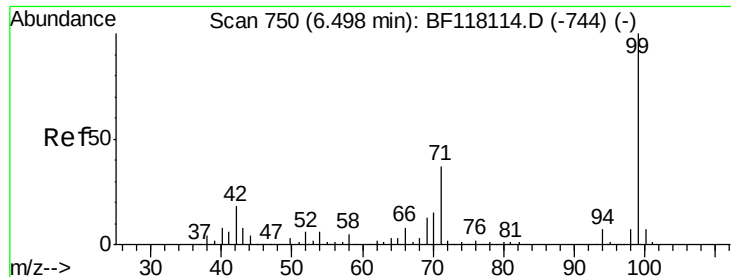
Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	200646		
66	40.0	30.2	45.2	
65	19.1	15.5	23.3	





#7

Phenol-d6

Concen: 101.101 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion: 99 Resp: 1007717

Ion Ratio Lower Upper

99 100

42 17.7 14.1 21.1

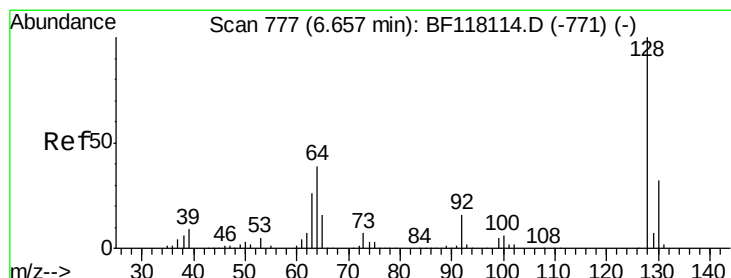
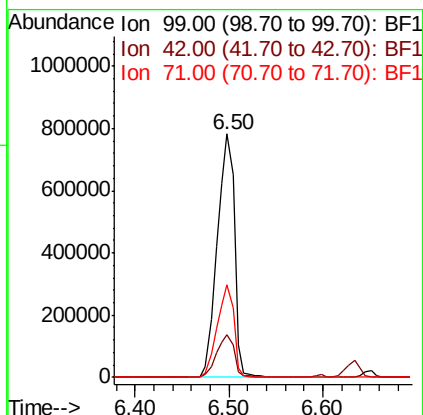
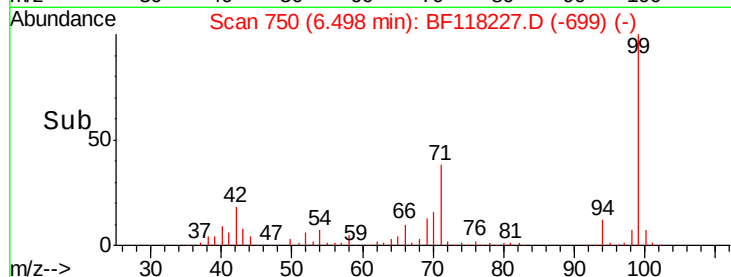
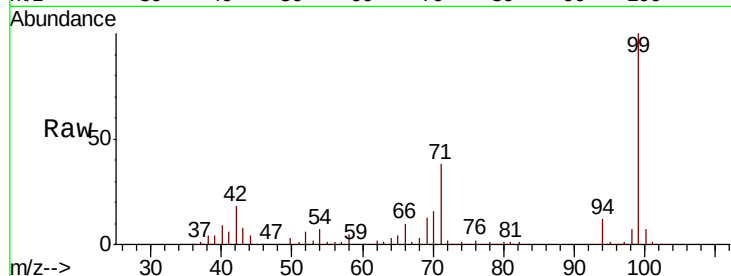
71 37.9 29.7 44.5

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#8

2-Chlorophenol

Concen: 41.885 ng

RT: 6.65 min Scan# 776

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

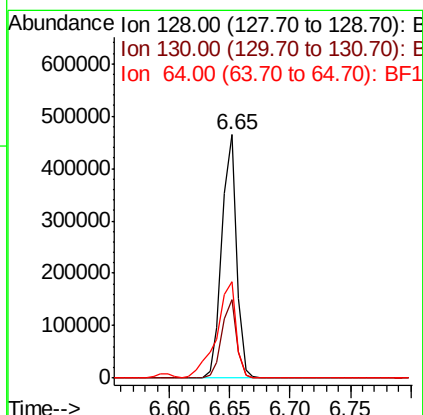
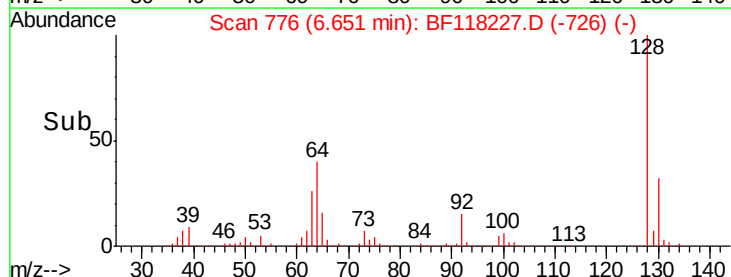
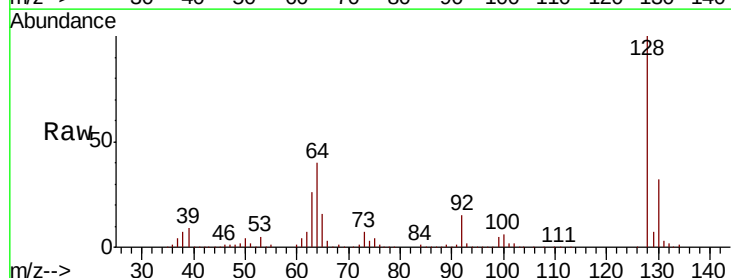
Tgt Ion: 128 Resp: 389205

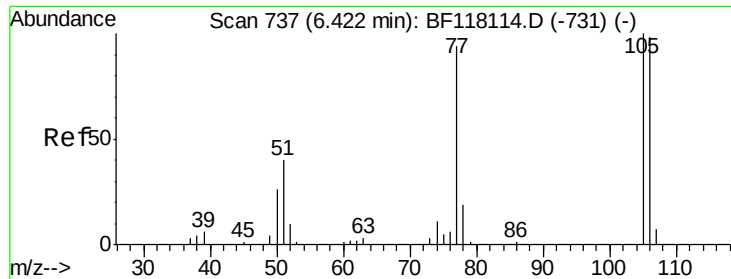
Ion Ratio Lower Upper

128 100

130 32.4 12.1 52.1

64 39.6 19.3 59.3





#9

Benzaldehyde

Concen: 20.790 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

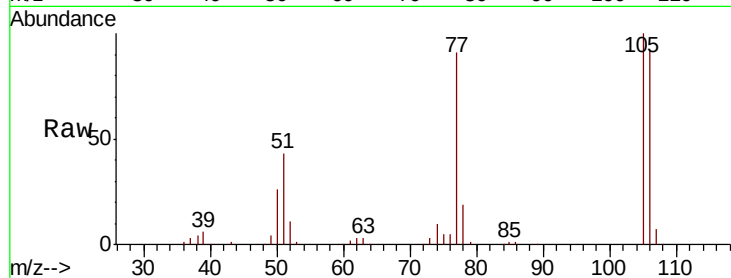
ClientSampleId :

42-SPRUCEMSD

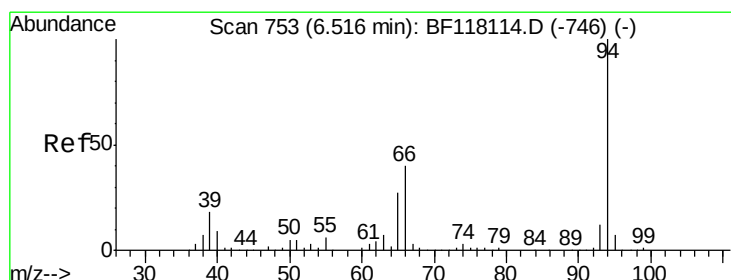
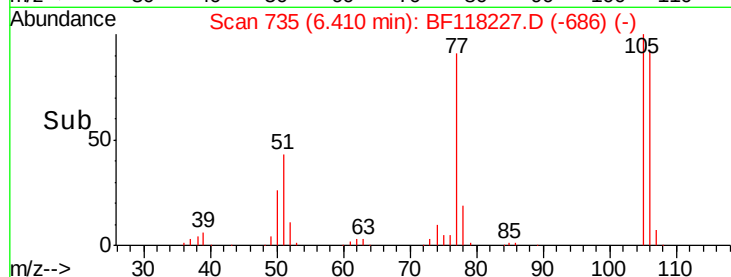
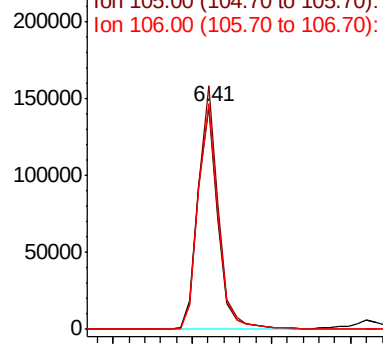
Tot Ion:	77	Resp:	128714
Ion	Ratio	Lower	Upper
77	100		
105	109.8	86.4	126.4
106	101.5	83.8	123.8

Manual Integrations
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Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E



#10

Phenol

Concen: 41.946 ng

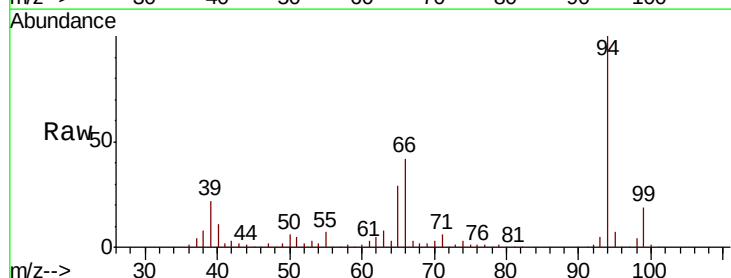
RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

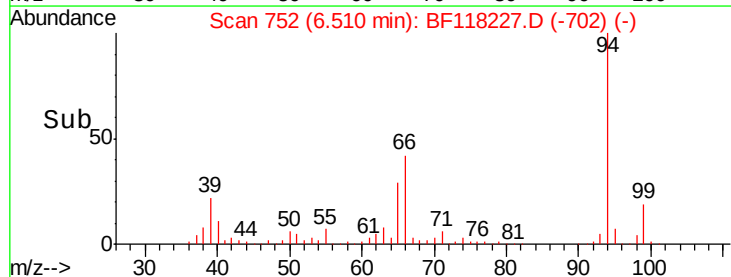
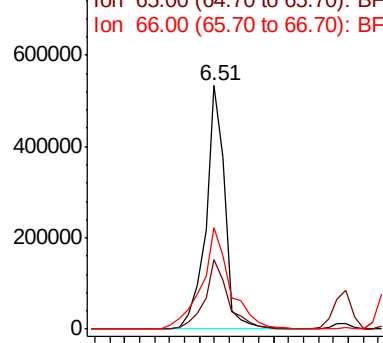
Lab File: BF118227.D

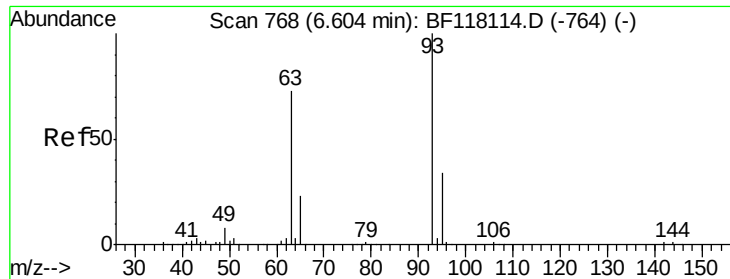
Acq: 17 Dec 2019 15:37

Tgt Ion:	94	Resp:	476808
Ion	Ratio	Lower	Upper
94	100		
65	28.6	7.3	47.3
66	41.9	20.2	60.2



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





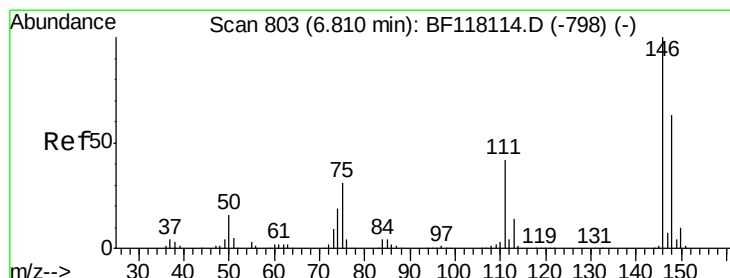
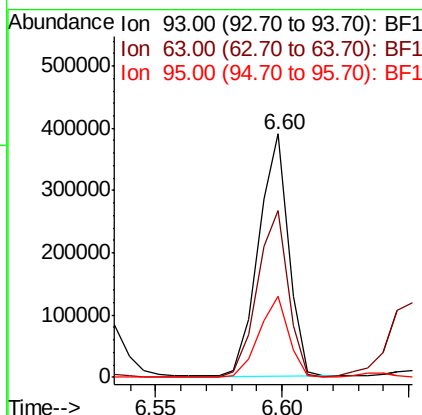
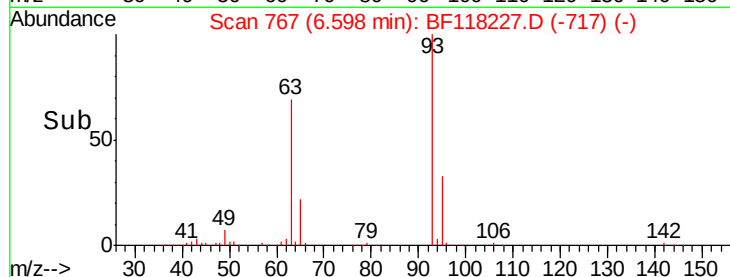
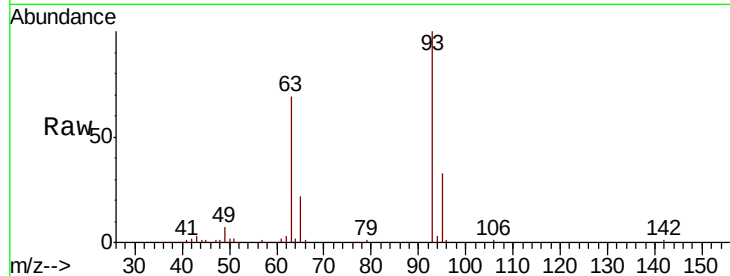
#11
bis(2-Chloroethyl)ether
Concen: 39.438 ng
RT: 6.60 min Scan# 767
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
93	100		324227		
63	68.8	53.2	93.2		
95	33.1	13.8	53.8		

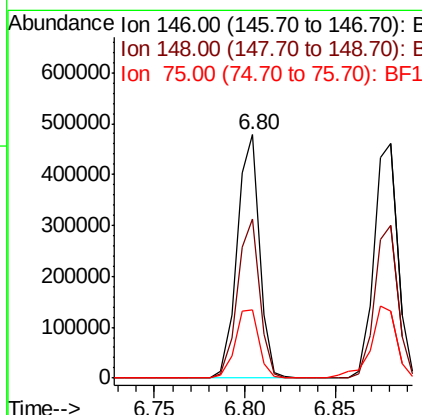
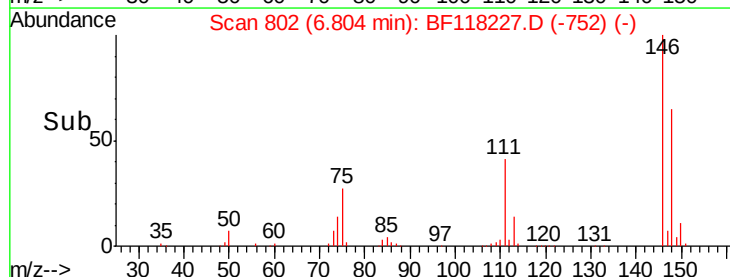
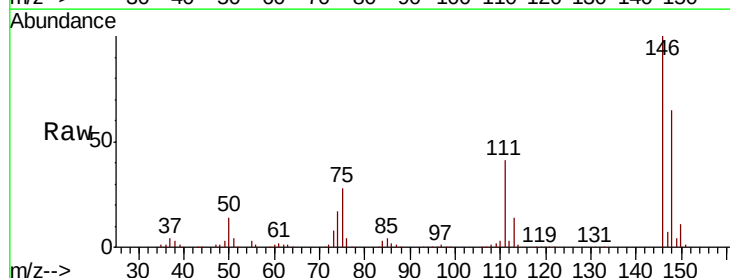
Manual Integrations
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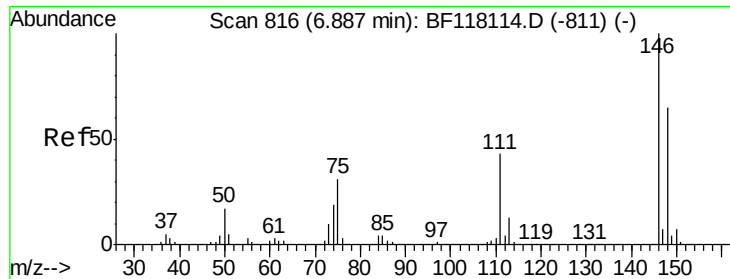
mohammad
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#12
1,3-Dichlorobenzene
Concen: 37.734 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
146	100		409597		
148	65.2	50.2	75.4		
75	28.1	24.6	37.0		





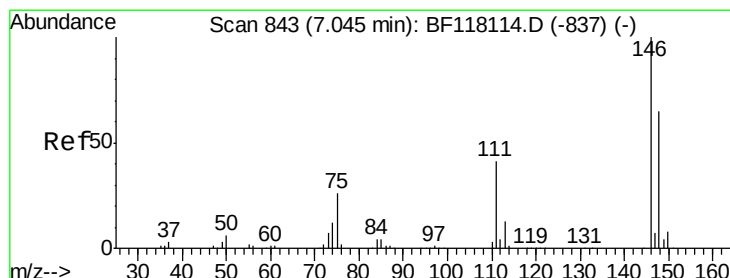
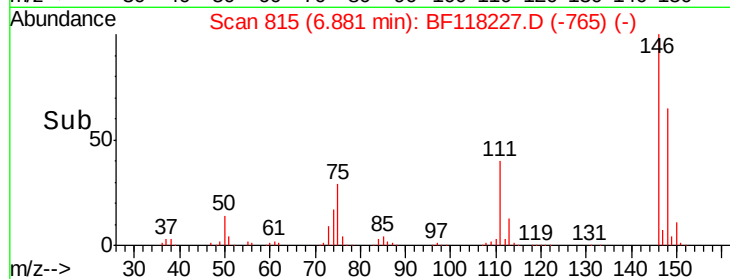
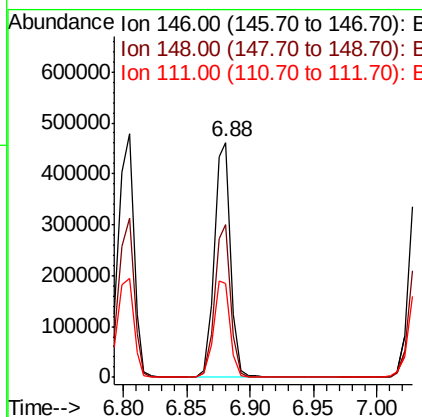
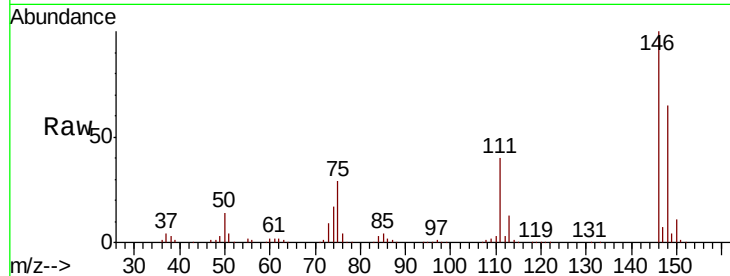
#13
1,4-Dichlorobenzene
Concen: 38.703 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
146	100		
148	65.3	52.1	78.1
111	40.1	34.6	52.0

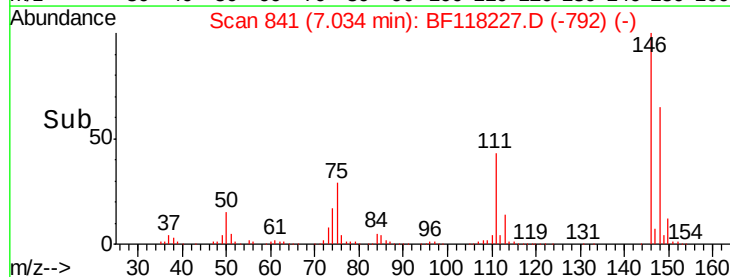
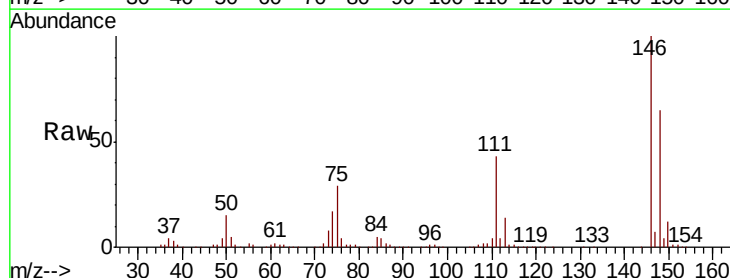
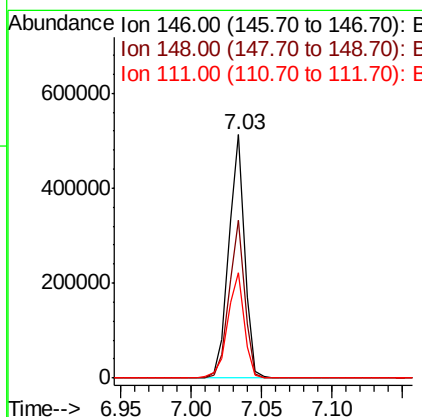
Manual Integrations
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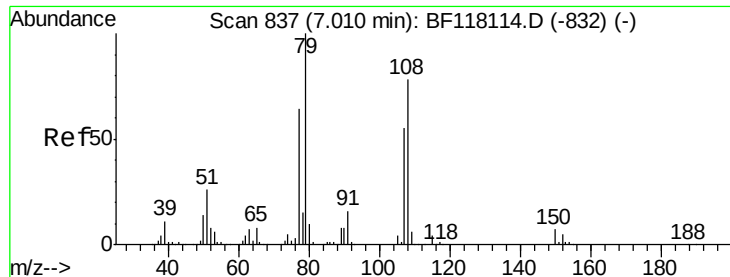
mohammad
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#14
1,2-Dichlorobenzene
Concen: 39.018 ng
RT: 7.03 min Scan# 841
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.7	52.2	78.2
111	43.3	33.1	49.7





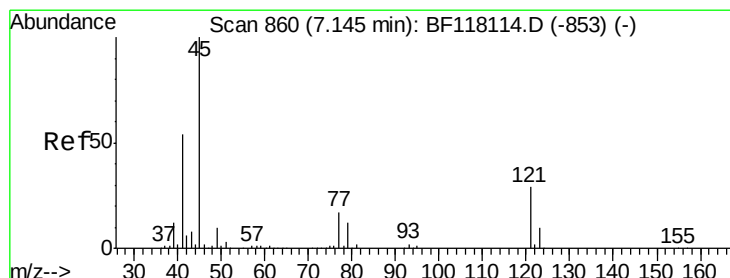
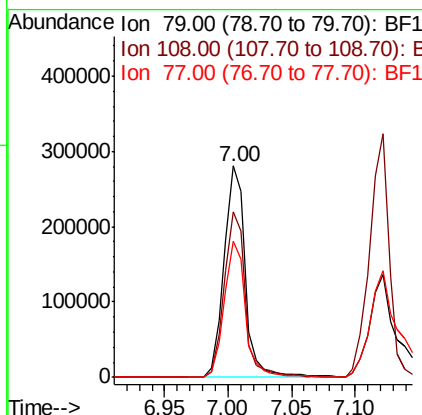
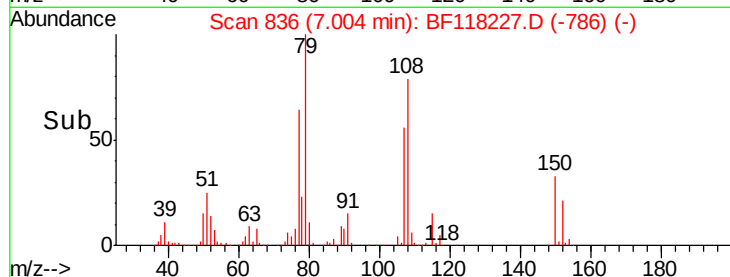
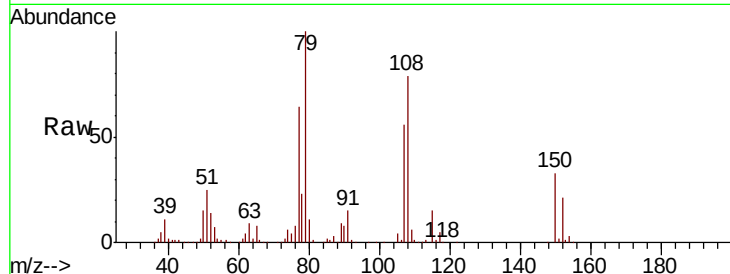
#15
Benzyl Alcohol
Concen: 41.846 ng
RT: 7.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
79	100		
108	78.5	62.7	94.1
77	64.2	51.4	77.2

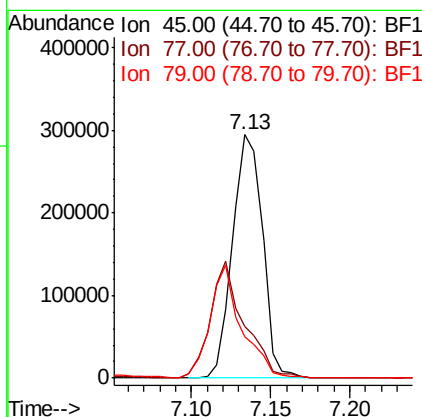
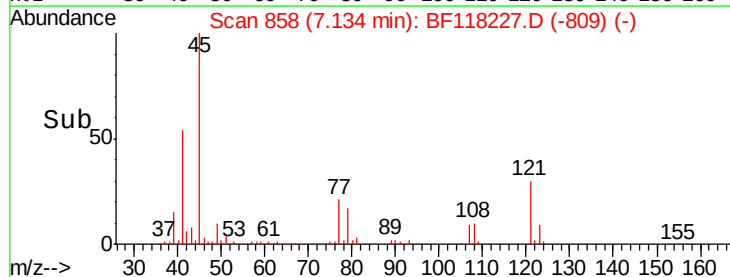
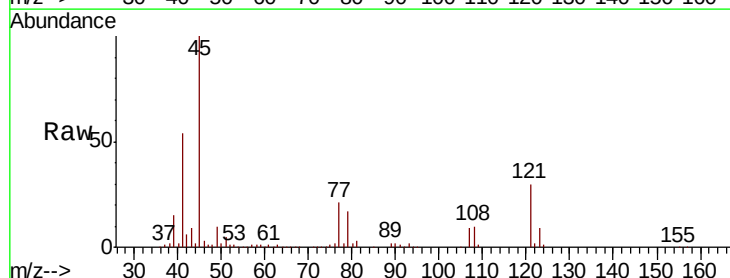
Manual Integrations
APPROVED

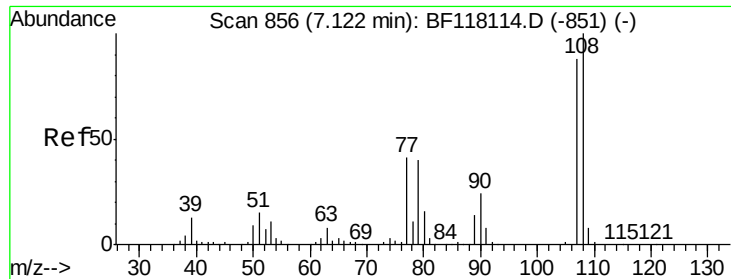
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#16
2,2'-oxybis(1-chloropropane)
Concen: 39.000 ng
RT: 7.13 min Scan# 858
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
45	100		
77	21.4	0.0	38.0
79	16.8	0.0	33.2





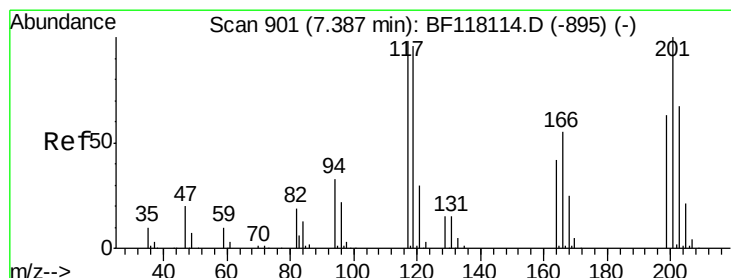
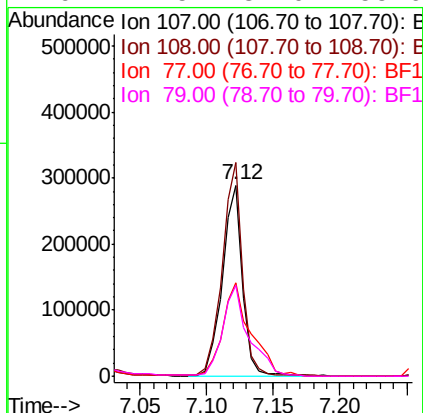
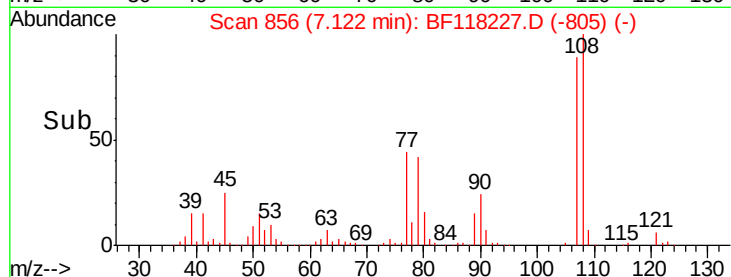
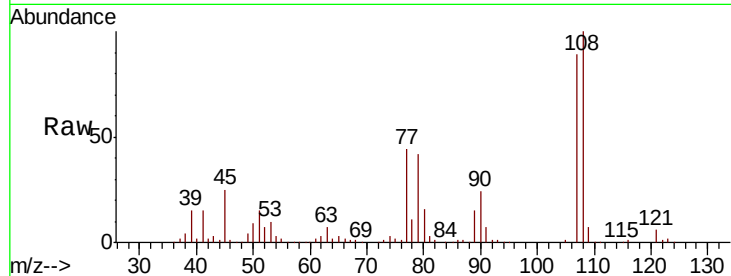
#17
2-Methylphenol
Concen: 41.679 ng
RT: 7.12 min Scan# 856
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	111.7	91.1	136.7	
77	48.9	37.8	56.6	
79	47.5	37.0	55.6	

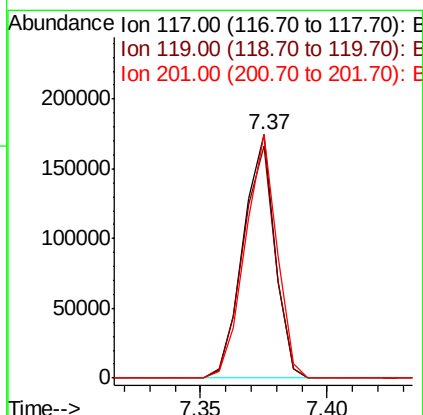
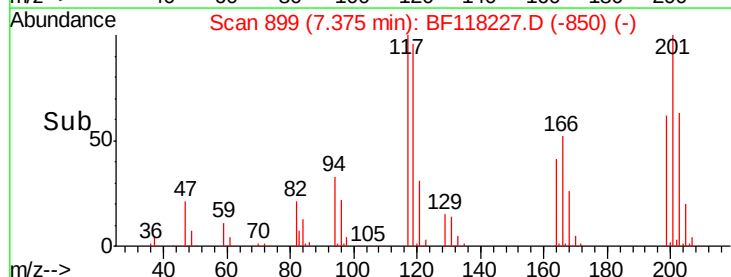
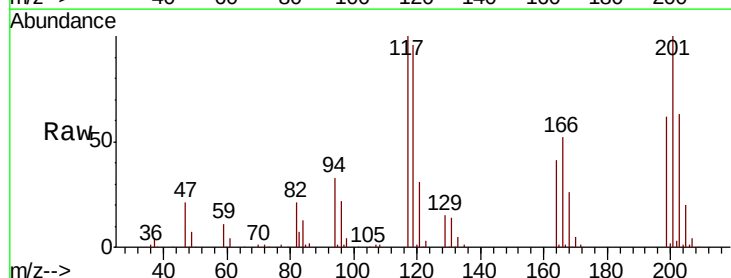
Manual Integrations
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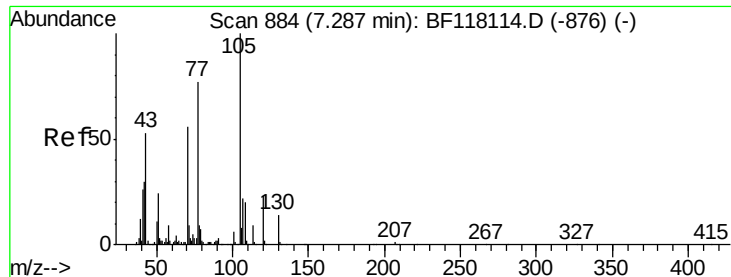
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#18
Hexachloroethane
Concen: 37.742 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	95.6	78.2	117.4	
201	100.1	81.6	122.4	





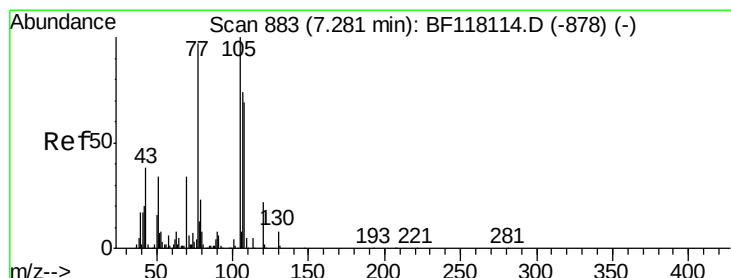
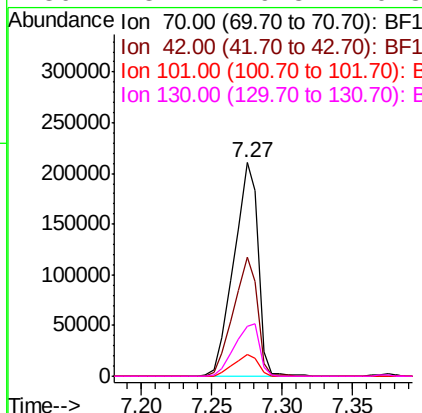
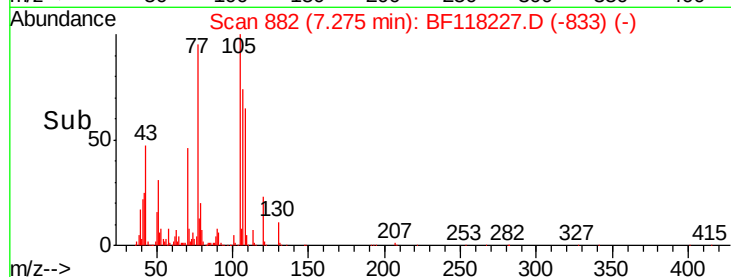
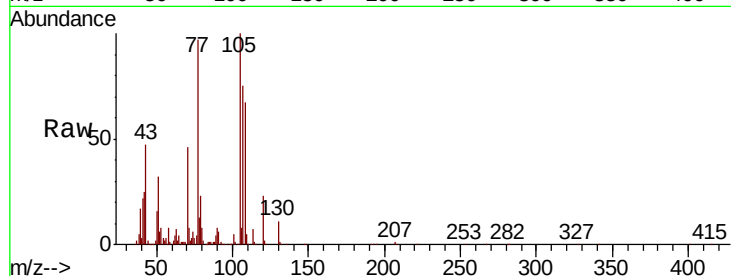
#19
n-Nitroso-di-n-propylamine
Concen: 41.505 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Lower	Upper
70	100			
42	55.7	43.2	64.8	
101	10.5	8.1	12.1	
130	23.7	19.8	29.8	

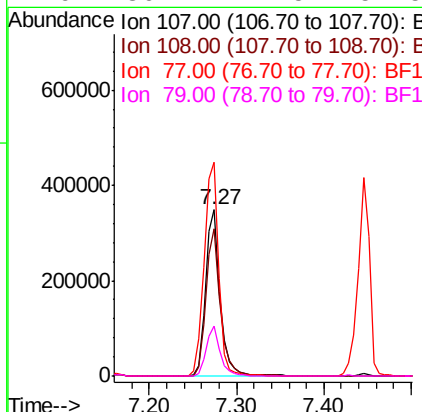
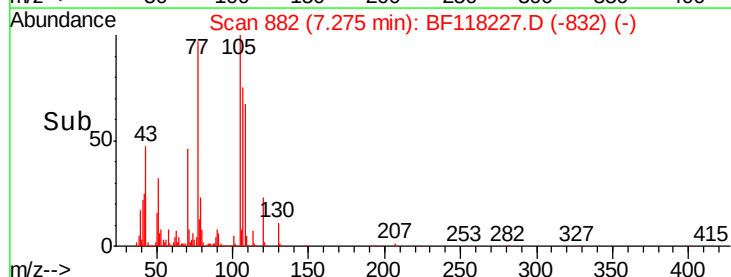
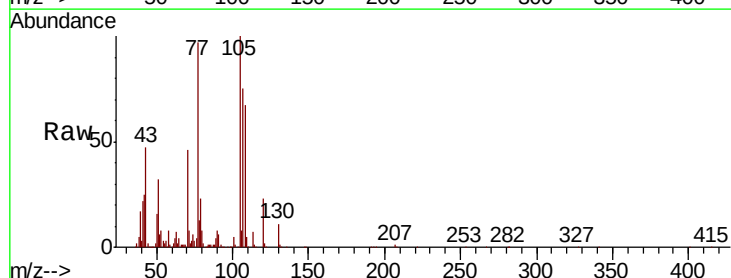
Manual Integrations
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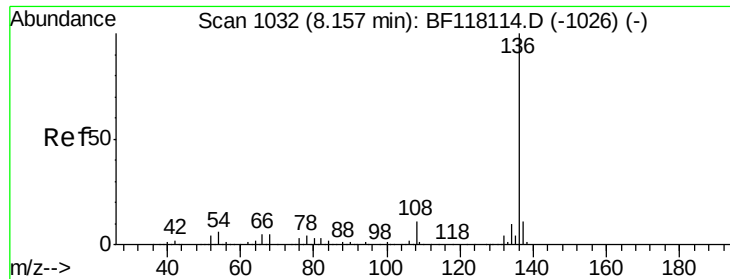
mohammad
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#20
3+4-Methylphenols
Concen: 43.296 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
108	88.9	73.2	113.2	
77	128.7	110.9	150.9	
79	30.4	11.5	51.5	





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

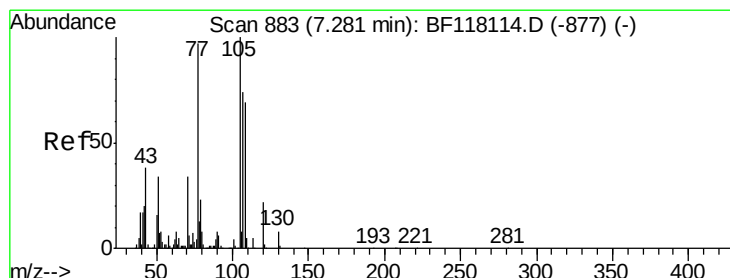
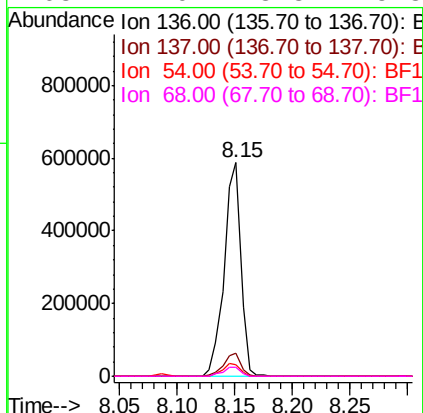
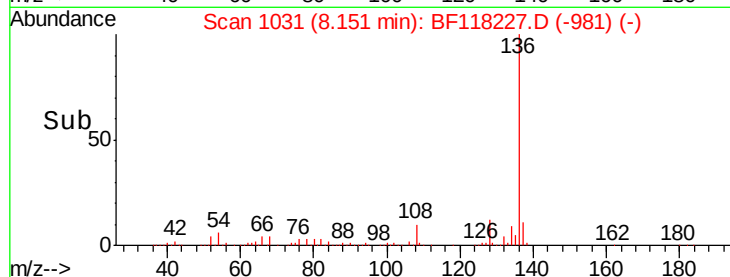
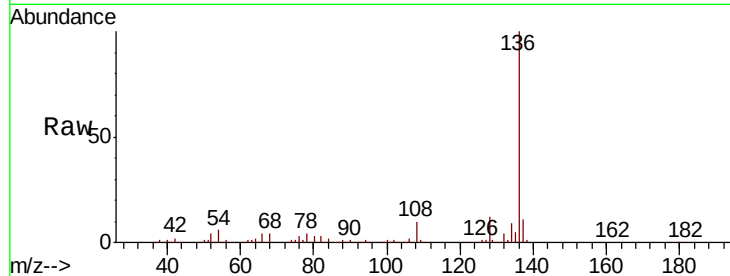
ClientSampleId :

42-SPRUCMSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100	589952		
137	10.6		9.0	13.6
54	5.5		5.0	7.6
68	4.0		3.8	5.8

Manual Integrations
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#22

Acetophenone

Concen: 37.463 ng

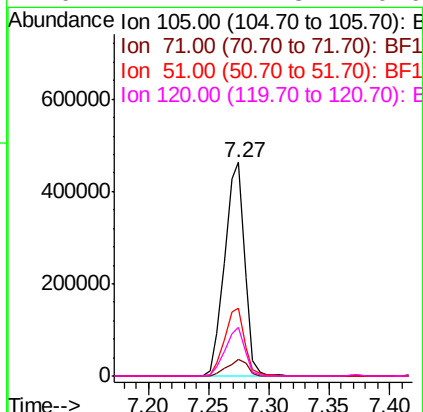
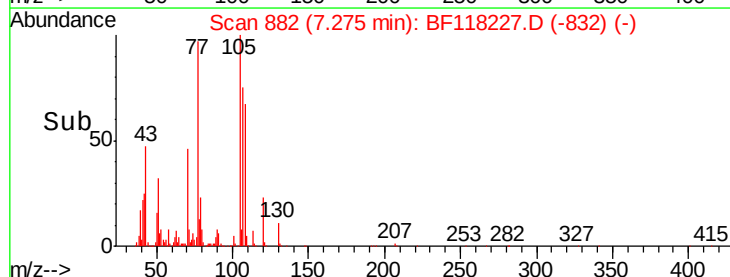
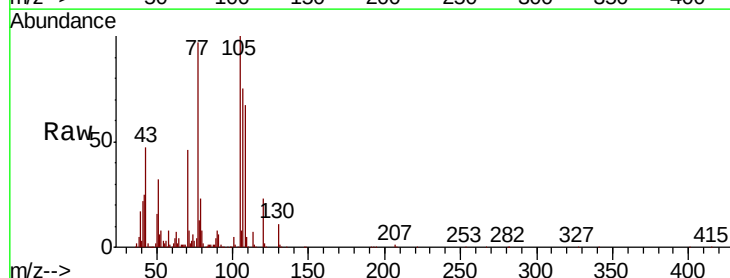
RT: 7.27 min Scan# 882

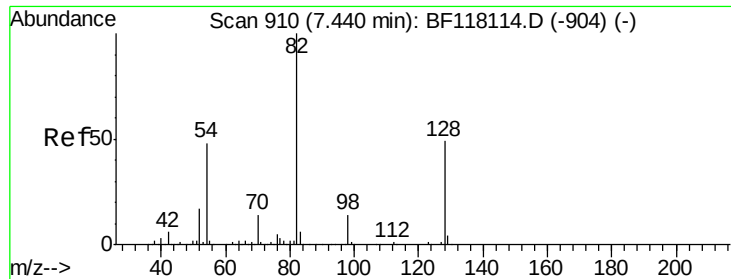
Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	530985		
71	7.8		4.7	7.1#
51	32.0		27.1	40.7
120	22.7		17.8	26.6





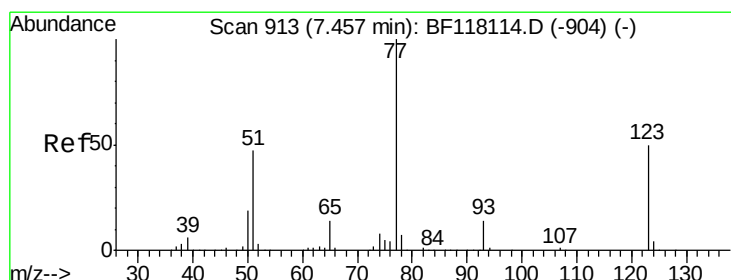
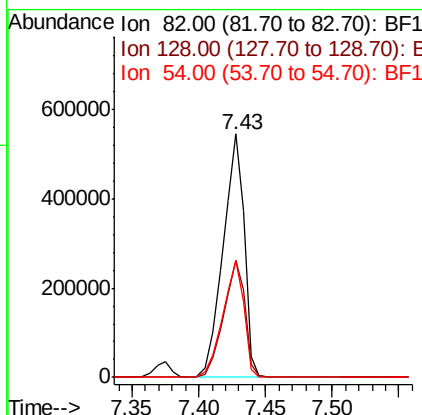
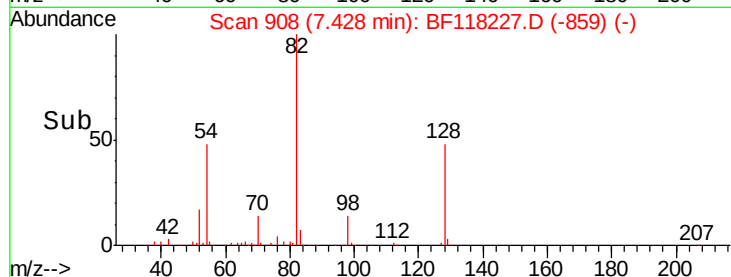
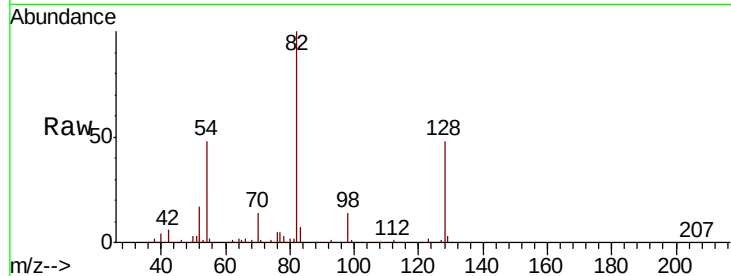
#23
Nitrobenzene-d5
Concen: 58.521 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
82	100	613685		
128	47.9		39.1	58.7
54	48.0		38.2	57.2

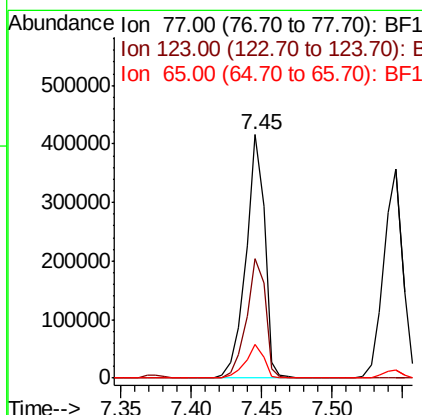
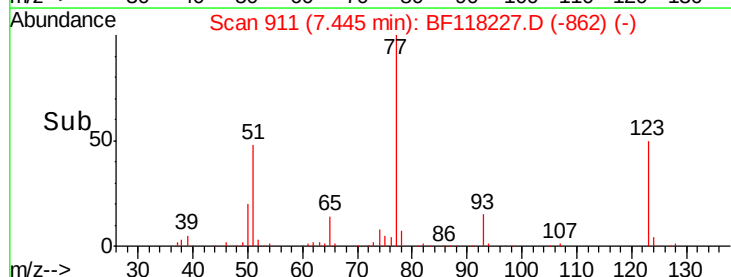
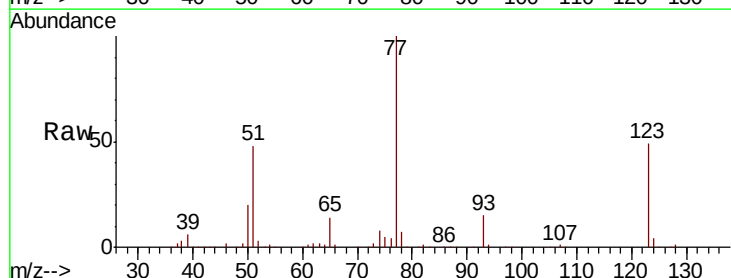
Manual Integrations
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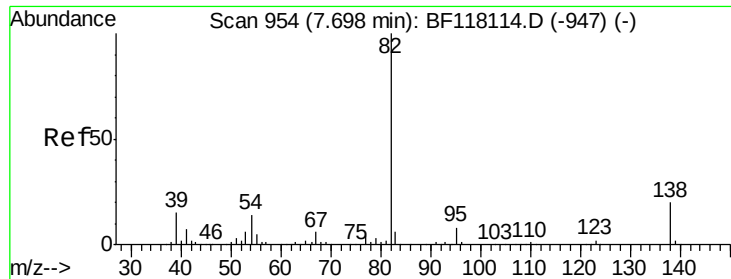
mohammad
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#24
Nitrobenzene
Concen: 37.508 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
77	100	386443		
123	49.3		40.1	60.1
65	13.6		10.9	16.3





#25

Isophorone

Concen: 38.945 ng

RT: 7.69 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

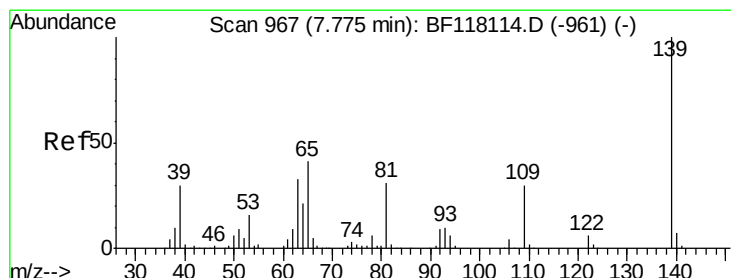
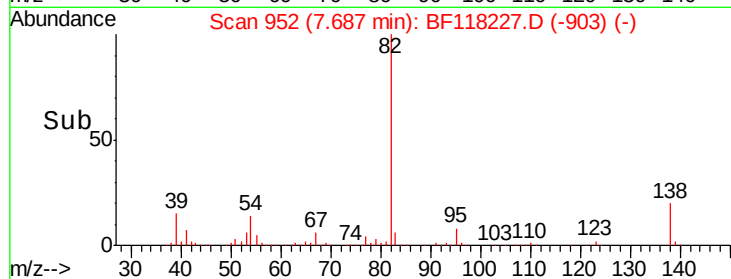
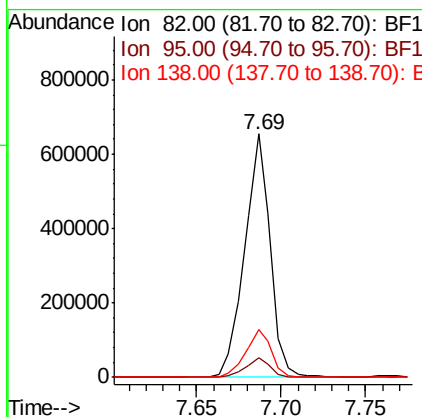
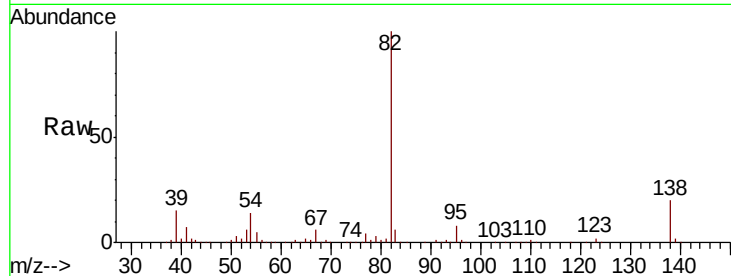
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	82	Resp:	692318
Ion Ratio	Lower	Upper	
82	100		
95	8.2	6.3	9.5
138	19.5	16.3	24.5

Manual Integrations
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#26

2-Nitrophenol

Concen: 39.177 ng

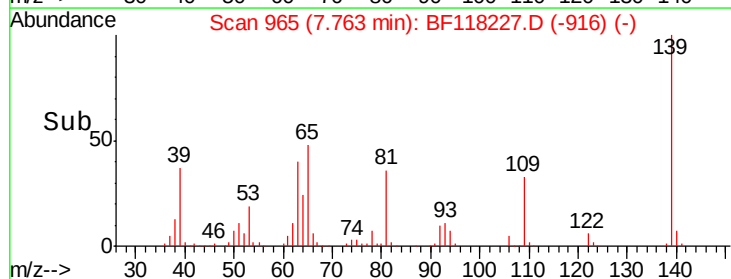
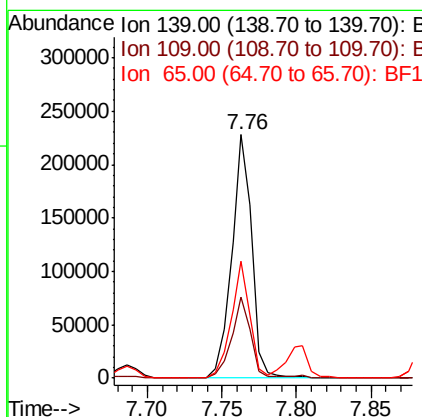
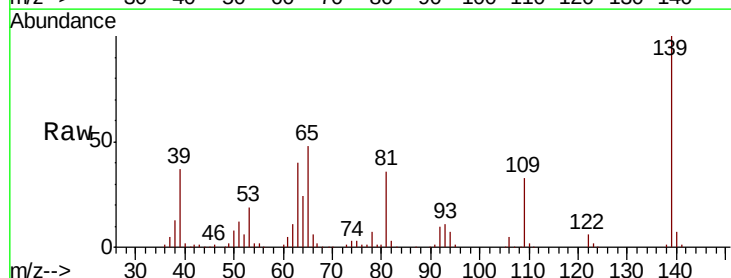
RT: 7.76 min Scan# 965

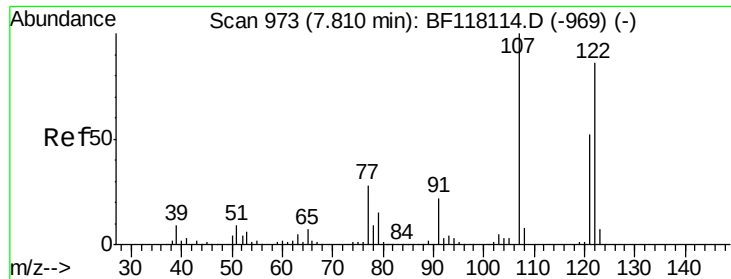
Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Tgt Ion:	139	Resp:	215741
Ion Ratio	Lower	Upper	
139	100		
109	33.3	23.9	35.9
65	47.9	33.0	49.6





#27

2,4-Dimethylphenol

Concen: 44.336 ng

RT: 7.80 min Scan# 972

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

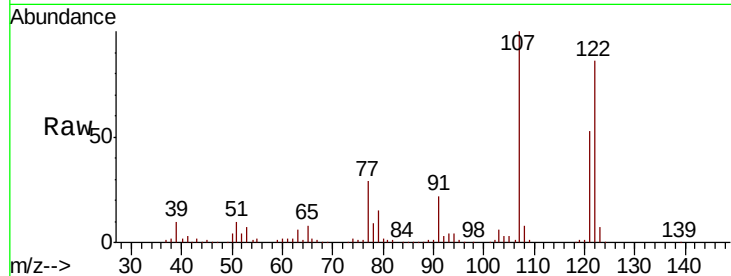
ClientSampleId :

42-SPRUCEMSD

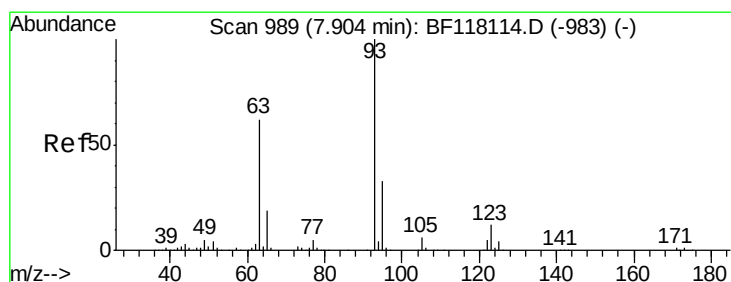
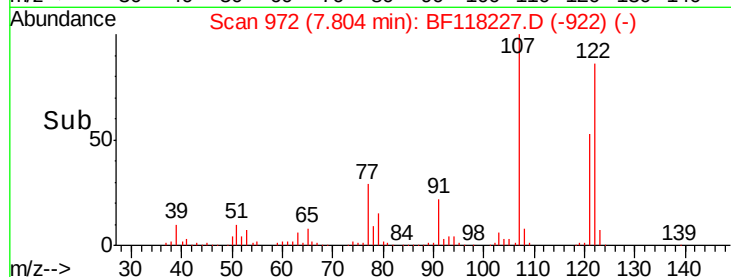
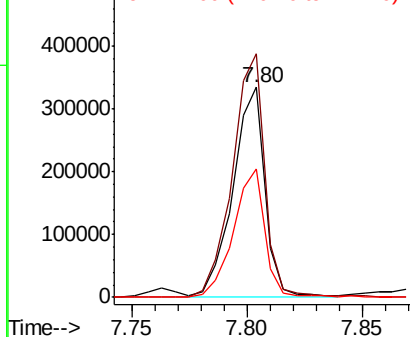
Tot Ion:	122	Resp:	325671
Ion Ratio	Lower	Upper	
122	100		
107	115.8	92.9	139.3
121	61.1	48.3	72.5

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Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 37.614 ng

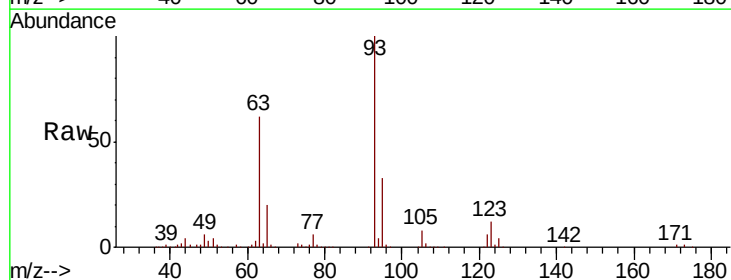
RT: 7.89 min Scan# 987

Delta R.T. -0.01 min

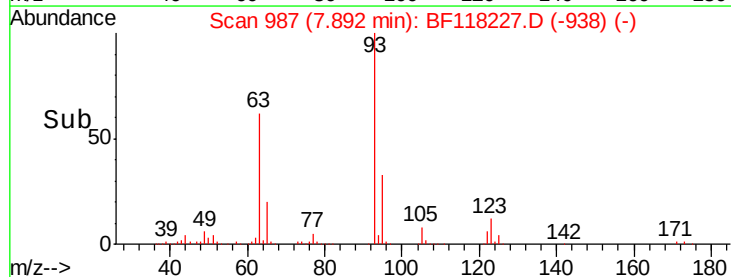
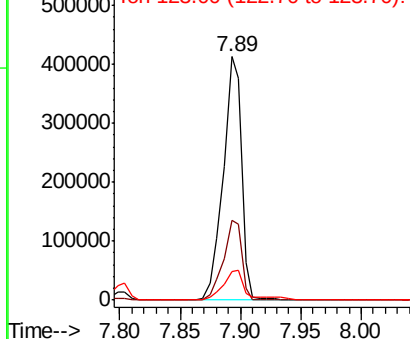
Lab File: BF118227.D

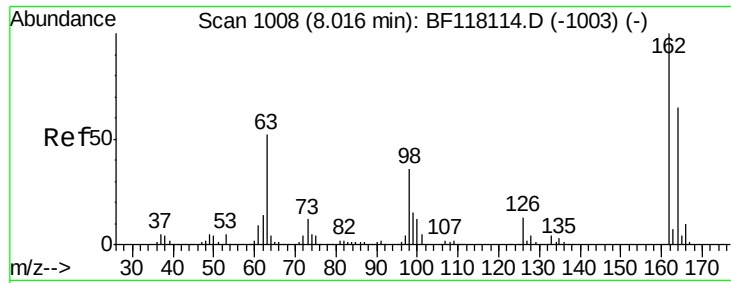
Acq: 17 Dec 2019 15:37

Tgt Ion:	93	Resp:	436931
Ion Ratio	Lower	Upper	
93	100		
95	32.8	26.7	40.1
123	11.9	10.0	15.0



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 123.00 (122.70 to 123.70): E





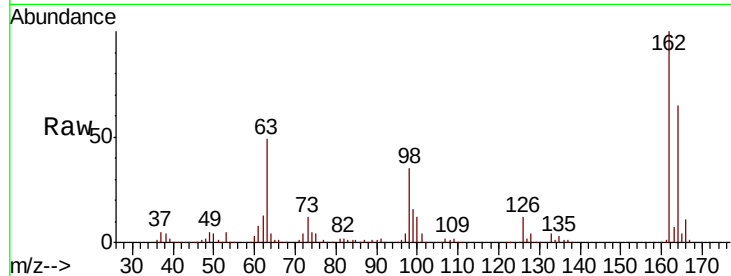
#29
2,4-Dichlorophenol
Concen: 39.331 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

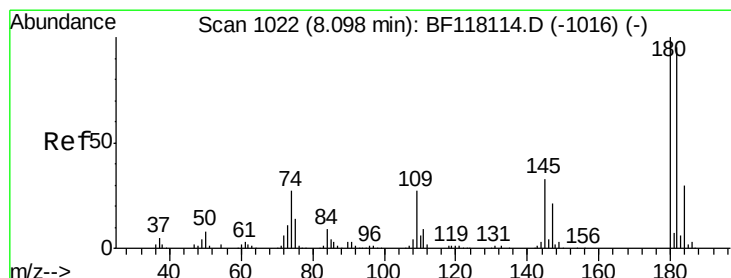
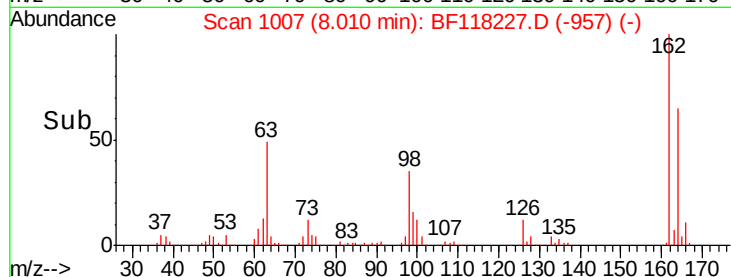
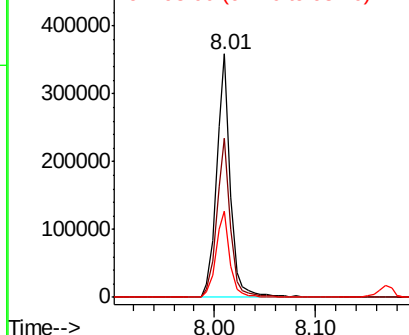
Tot Ion:	162	Resp:	336795
Ion Ratio	Lower	Upper	
162	100		
164	65.3	45.2	85.2
98	35.3	15.9	55.9

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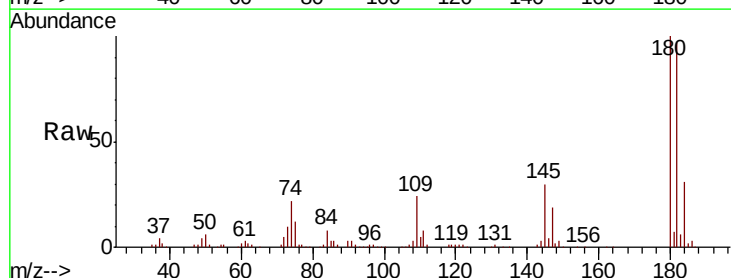


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF1

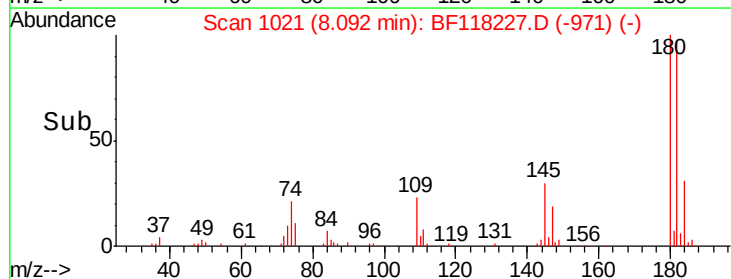
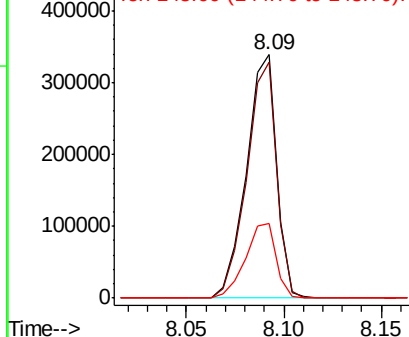


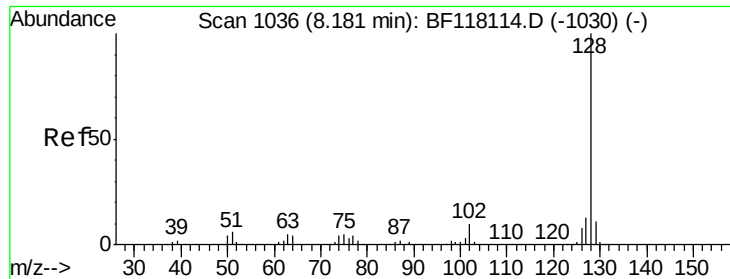
#30
1,2,4-Trichlorobenzene
Concen: 36.281 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion:	180	Resp:	363075
Ion Ratio	Lower	Upper	
180	100		
182	96.8	76.1	114.1
145	30.5	26.1	39.1



Abundance Ion 180.00 (179.70 to 180.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 145.00 (144.70 to 145.70): E





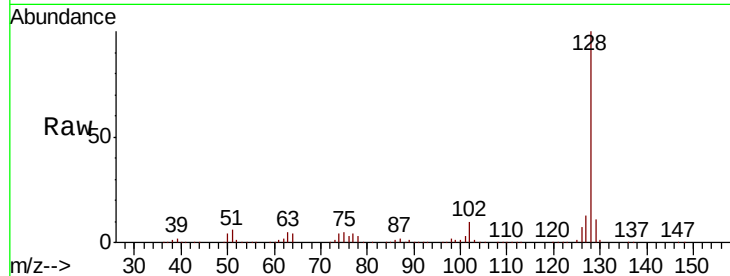
#31
Naphthalene
Concen: 38.711 ng
RT: 8.17 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.4	10.6	16.0

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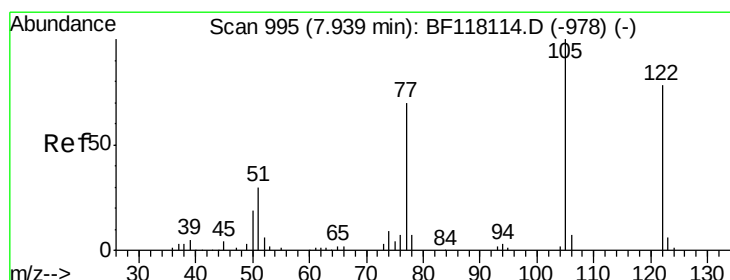
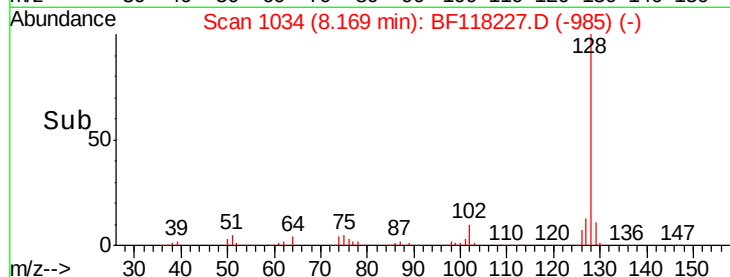
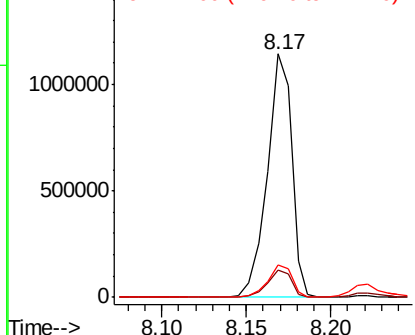


Abundance

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



#32
Benzoic acid
Concen: 28.031 ng
RT: 7.93 min Scan# 994
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

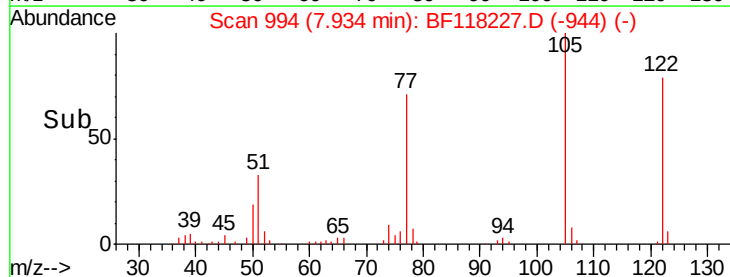
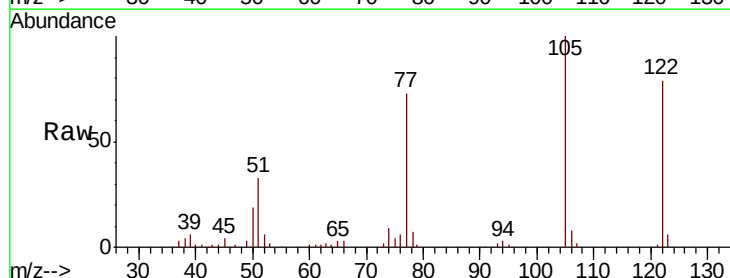
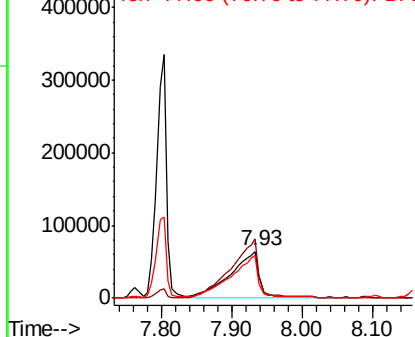
Tgt Ion	Ratio	Lower	Upper
122	100		
105	126.6	104.7	144.7
77	91.8	69.1	109.1

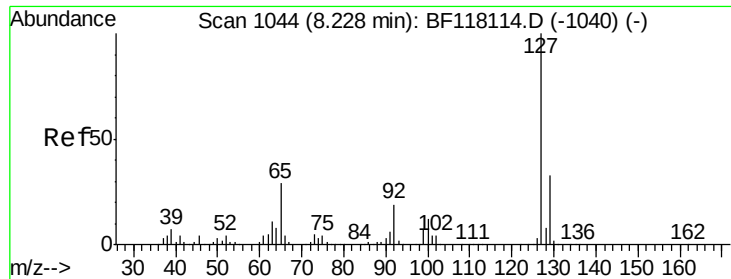
Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





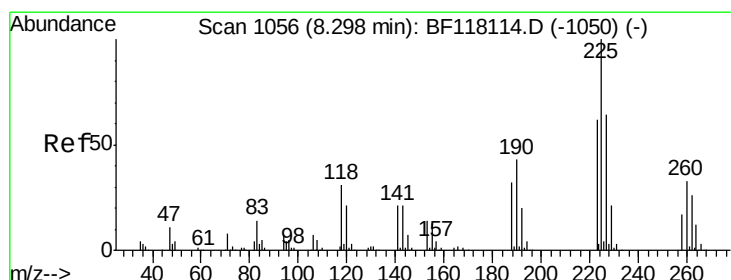
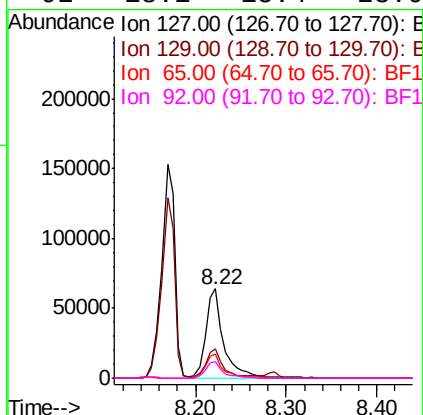
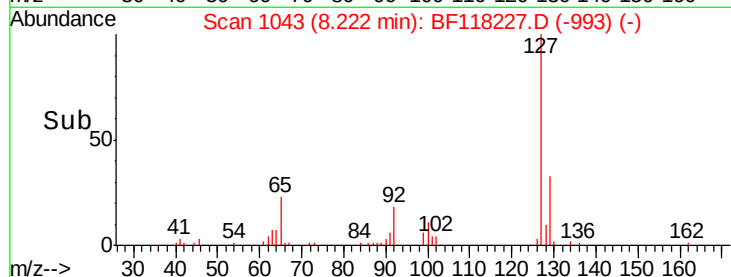
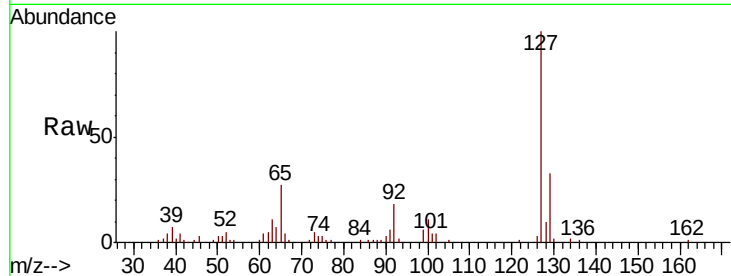
#33
4-Chloroaniline
Concen: 7.012 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.6	40.0
65	26.7	23.2	34.8
92	18.1	15.4	23.0

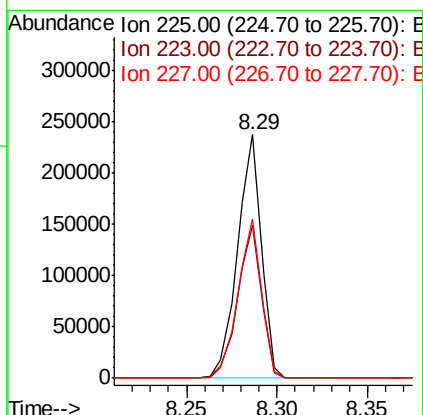
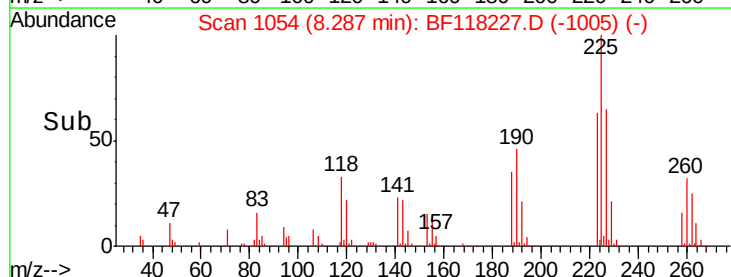
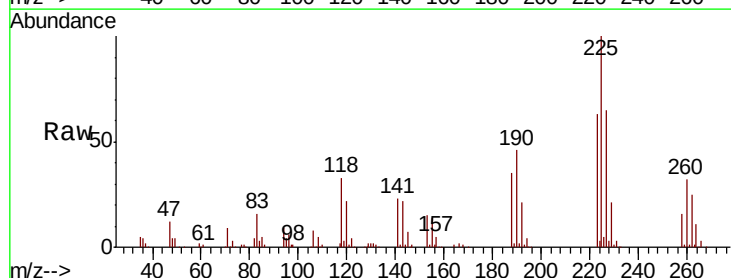
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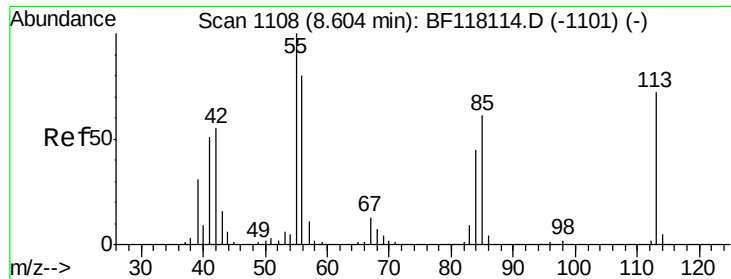
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#34
Hexachlorobutadiene
Concen: 36.207 ng
RT: 8.29 min Scan# 1054
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.6	74.4
227	65.3	51.0	76.6





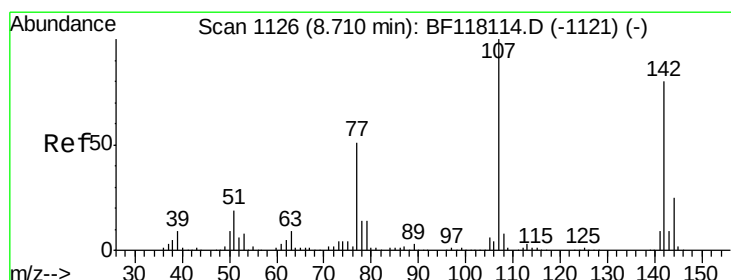
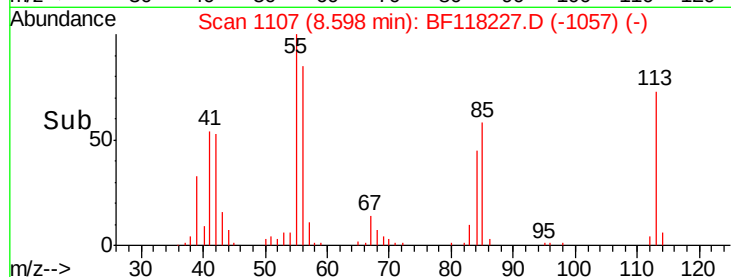
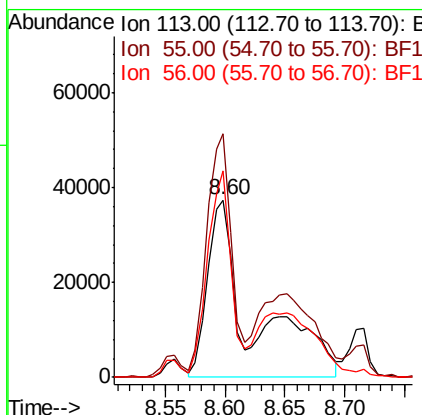
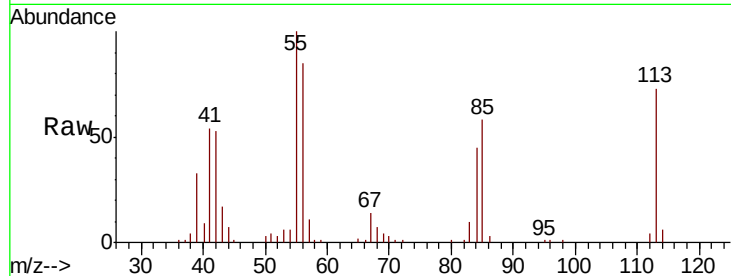
#35
 Caprolactam
 Concen: 36.577 ng/ml
 RT: 8.60 min Scan# 1107
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
113	100		
55	137.2	118.9	158.9
56	116.2	91.4	131.4

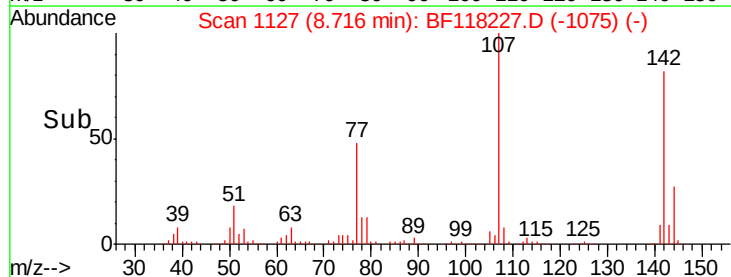
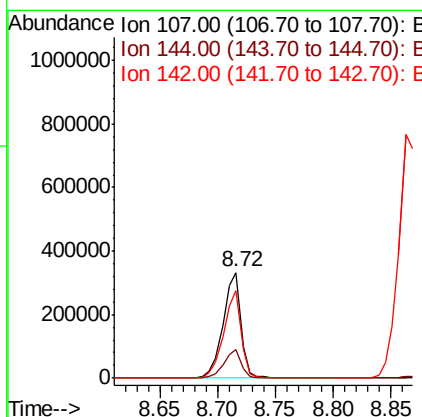
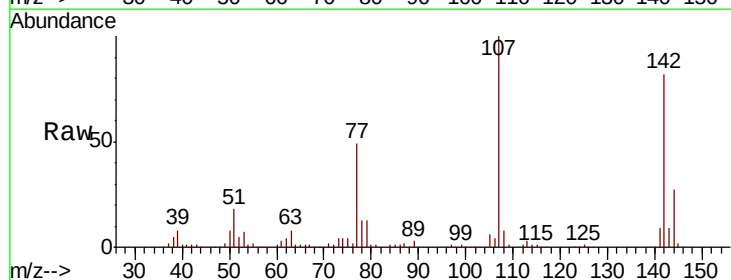
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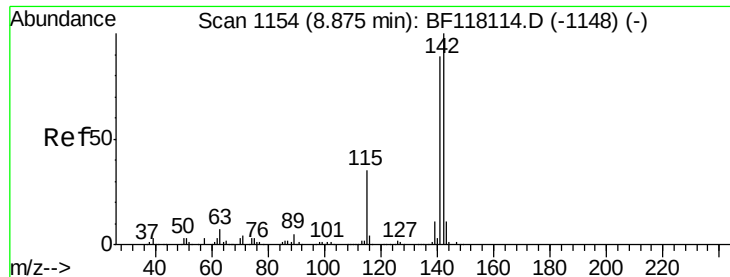
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#36
 4-Chloro-3-methylphenol
 Concen: 39.968 ng/ml
 RT: 8.72 min Scan# 1127
 Delta R.T. 0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
107	100		
144	26.7	20.3	30.5
142	82.4	63.7	95.5





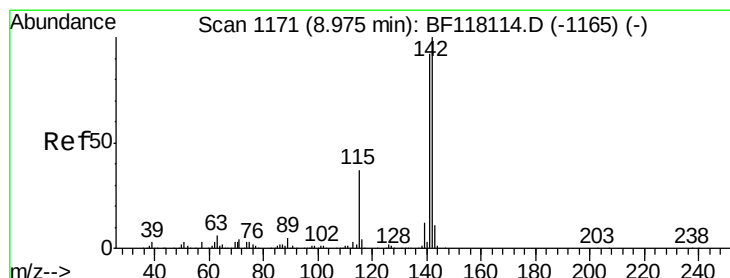
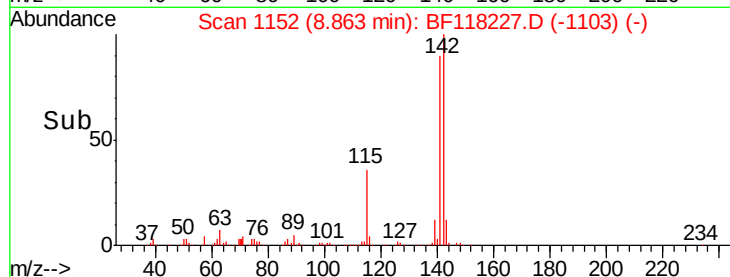
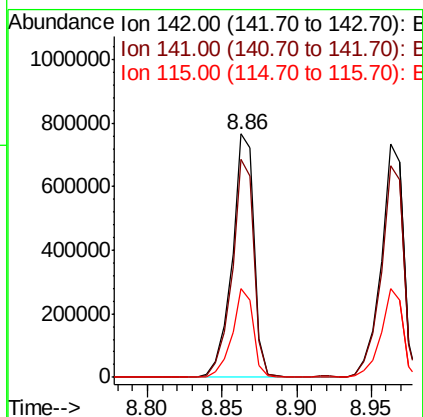
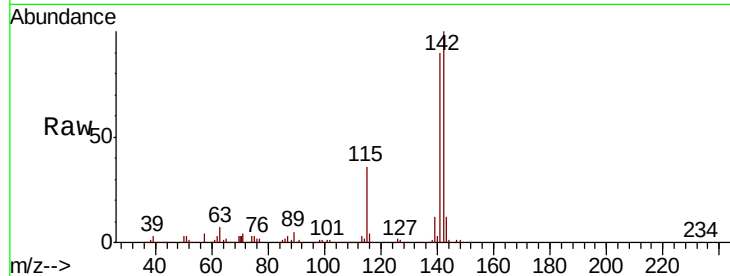
#37
2-Methylnaphthalene
Concen: 39.619 ng
RT: 8.86 min Scan# 1152
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.4	107.0
115	36.5	28.2	42.4

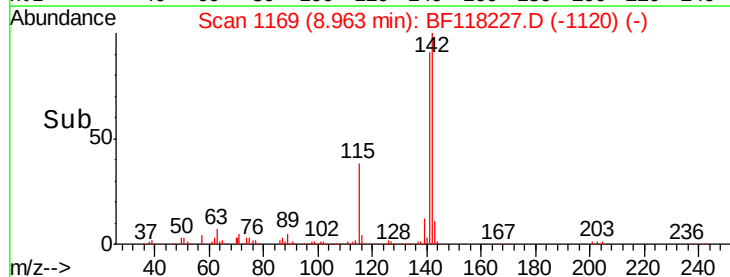
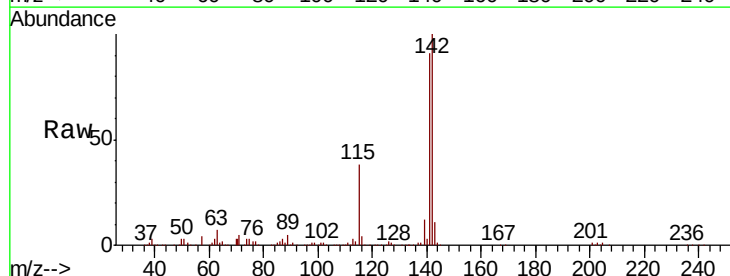
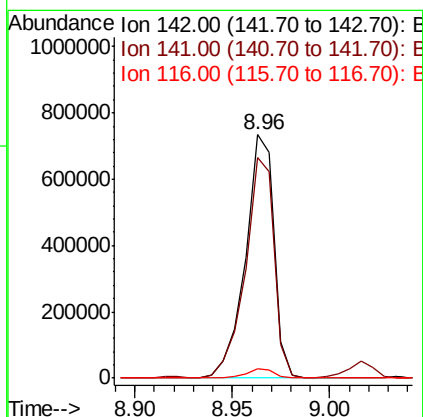
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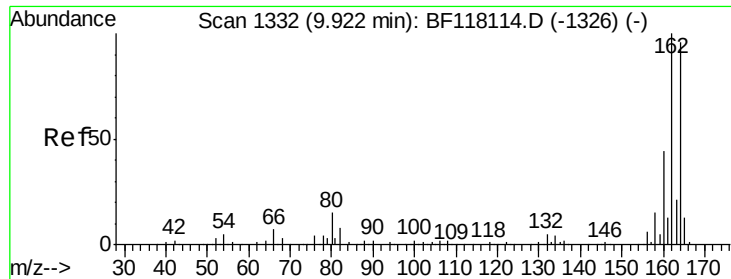
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#38
1-Methylnaphthalene
Concen: 39.417 ng
RT: 8.96 min Scan# 1169
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	74.0	111.0
116	3.9	3.2	4.8





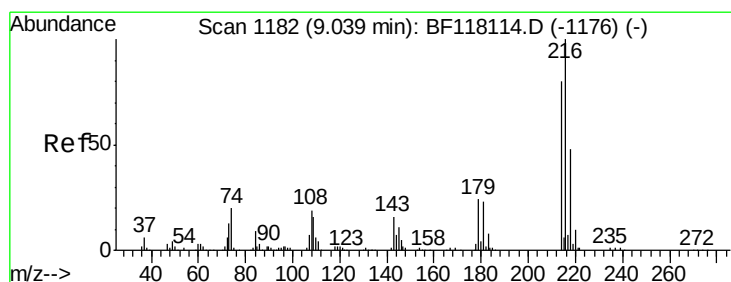
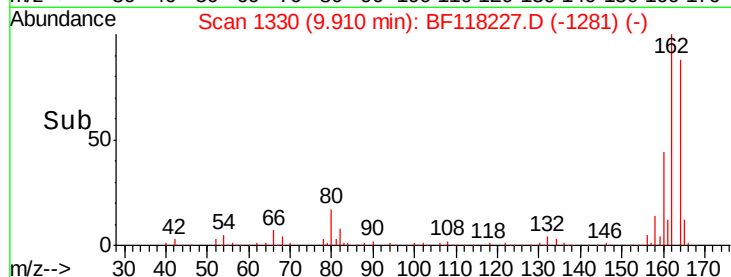
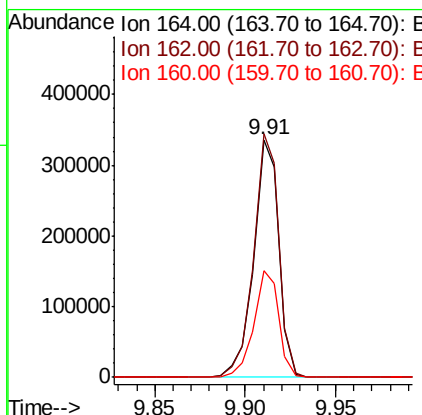
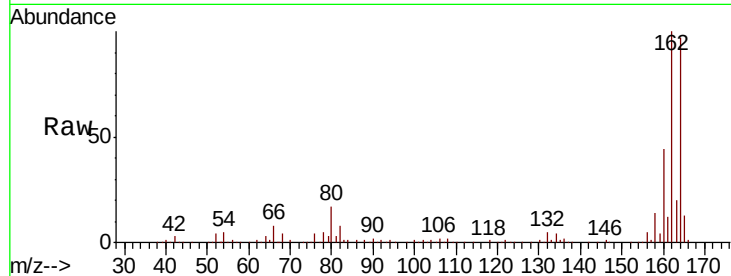
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	83.4	125.0
160	44.8	36.6	54.8

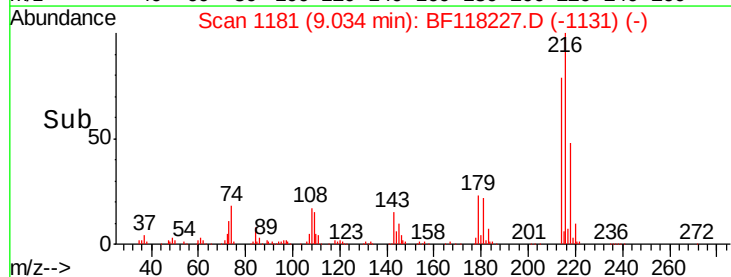
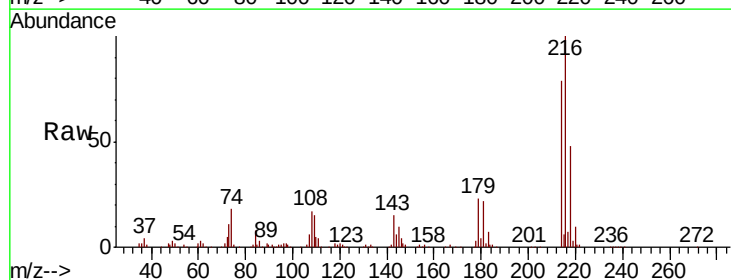
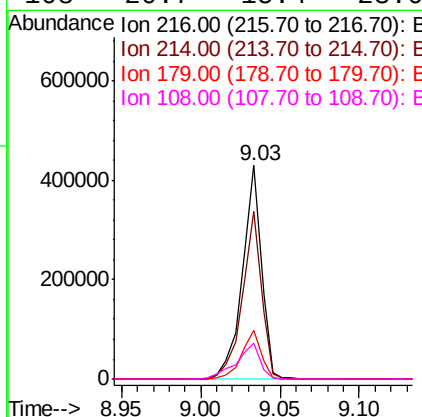
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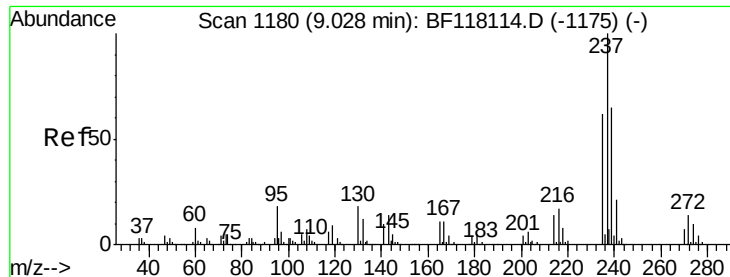
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#40
1,2,4,5-Tetrachlorobenzene
Concen: 36.619 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.4	95.2
179	23.3	18.6	27.8
108	20.7	15.4	23.0





#41

Hexachlorocyclopentadiene

Concen: 82.389 ng

RT: 9.02 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

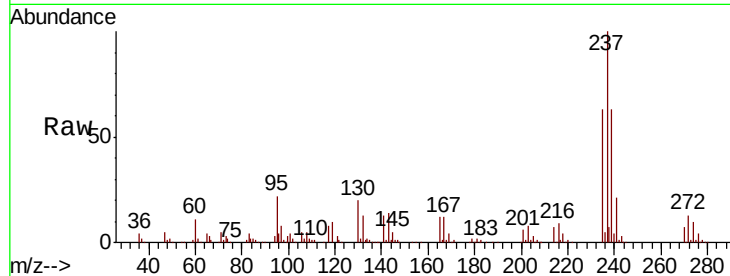
ClientSampleId :

42-SPRUCEMSD

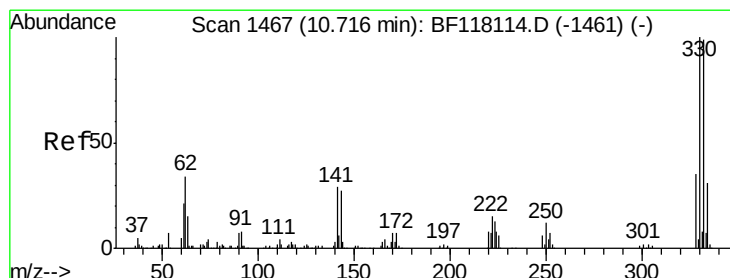
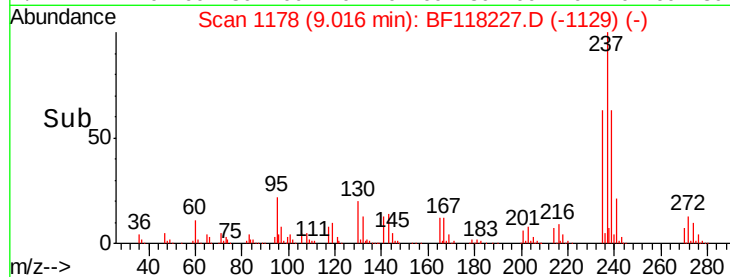
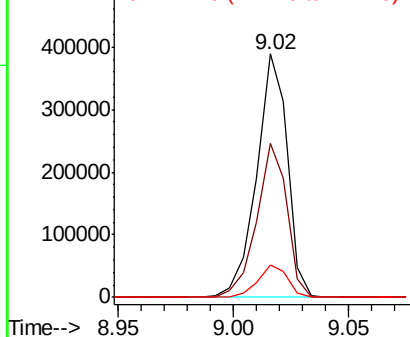
Tot Ion:	237	Resp:	361135
Ion Ratio	Lower	Upper	
237	100		
235	63.1	41.5	81.5
272	13.3	0.0	33.7

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Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 91.131 ng

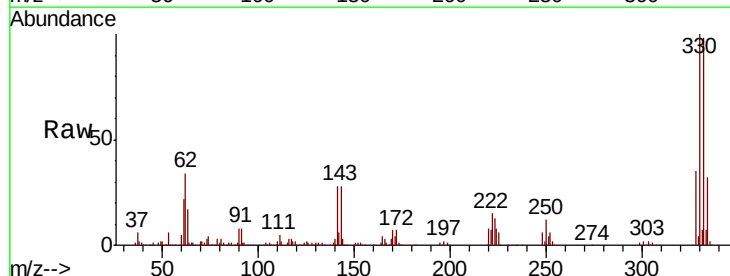
RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

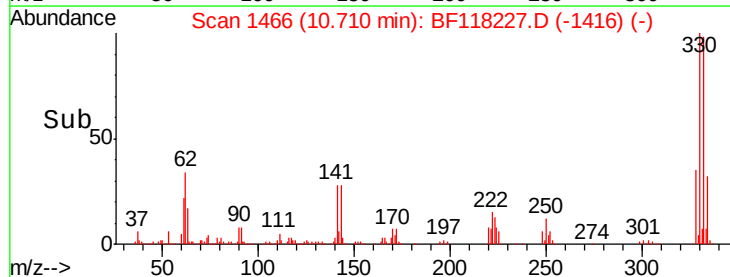
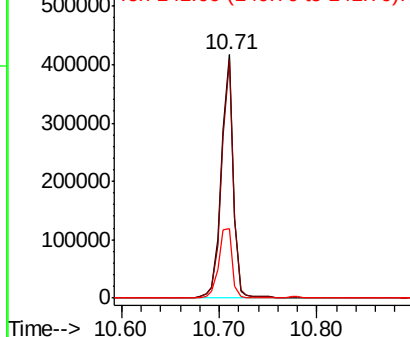
Lab File: BF118227.D

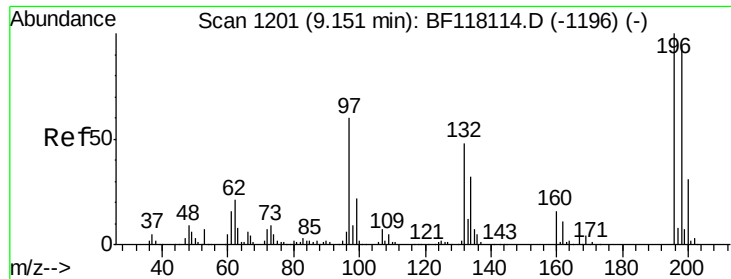
Acq: 17 Dec 2019 15:37

Tgt Ion:	330	Resp:	357521
Ion Ratio	Lower	Upper	
330	100		
332	96.9	78.1	117.1
141	32.4	26.9	40.3



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





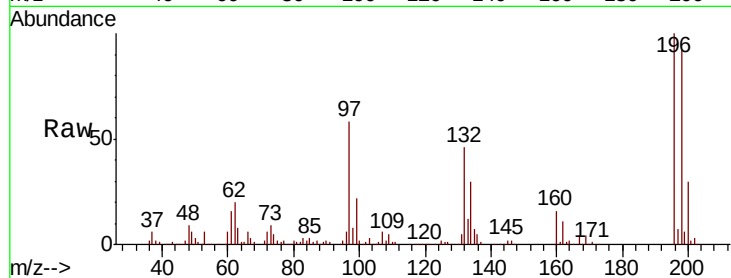
#43
 2,4,6-Trichlorophenol
 Concen: 38.080 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

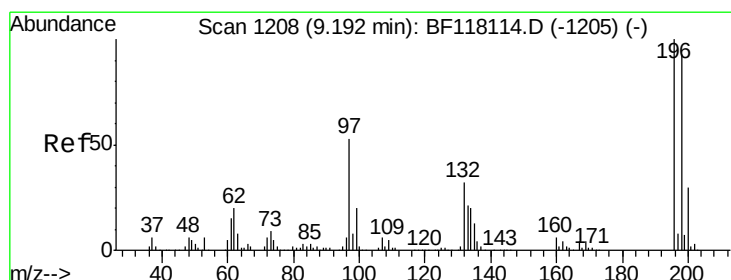
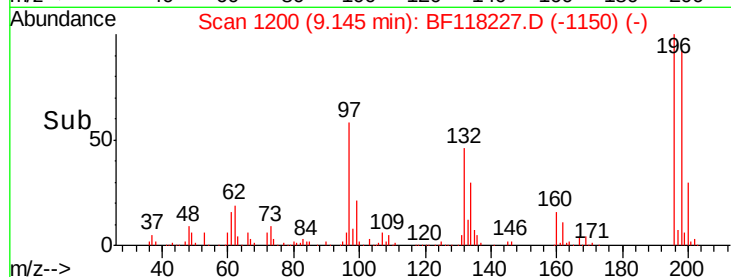
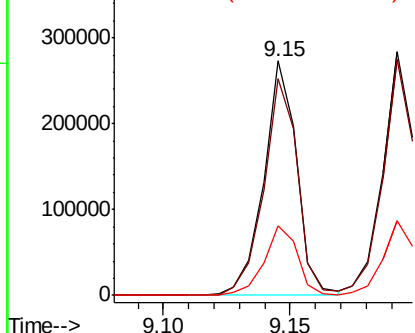
Tot Ion:	196	Resp:	248736
Ion Ratio	Lower	Upper	
196	100		
198	92.3	75.0	112.4
200	29.8	24.5	36.7

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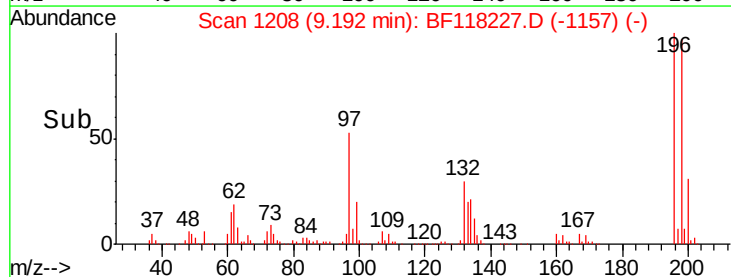
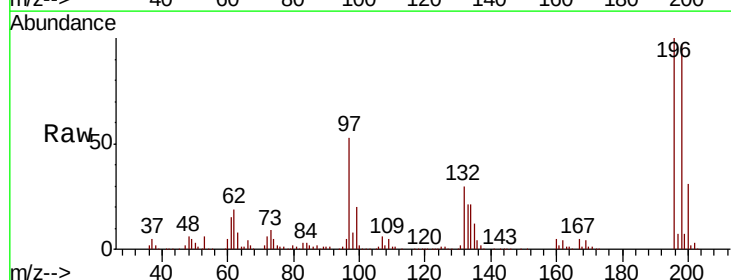
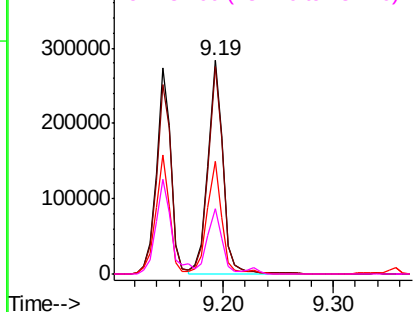
Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

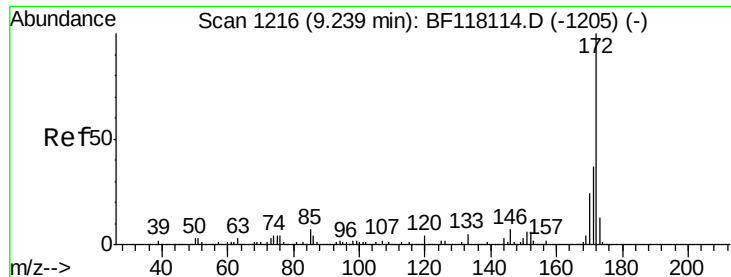


#44
 2,4,5-Trichlorophenol
 Concen: 38.204 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion:	196	Resp:	258541
Ion Ratio	Lower	Upper	
196	100		
198	96.9	74.2	111.4
97	52.8	42.5	63.7
132	30.3	25.4	38.2

Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF1
 Ion 132.00 (131.70 to 132.70): E





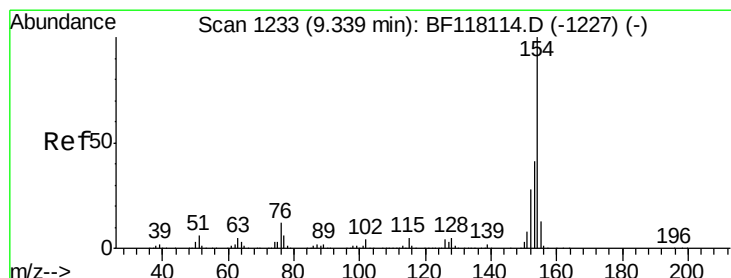
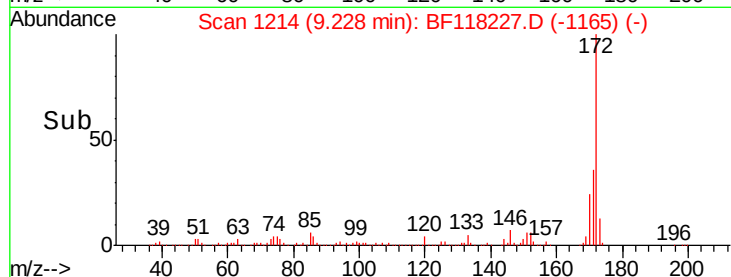
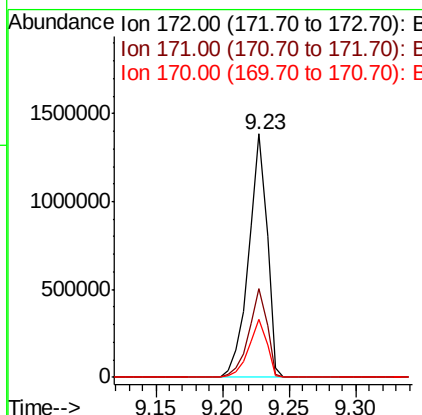
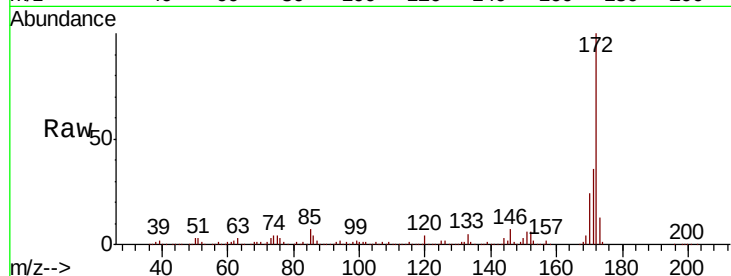
#45
2-Fluorobiphenyl
Concen: 61.345 ng
RT: 9.23 min Scan# 1214
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.2	43.8
170	23.9	19.4	29.2

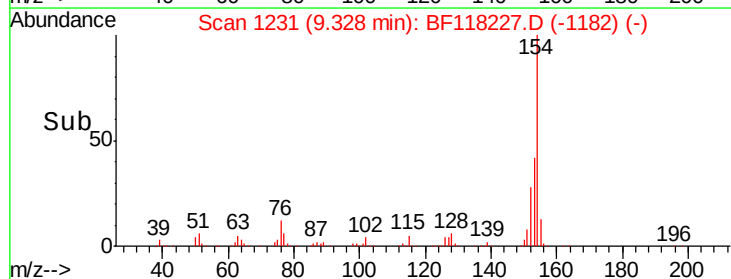
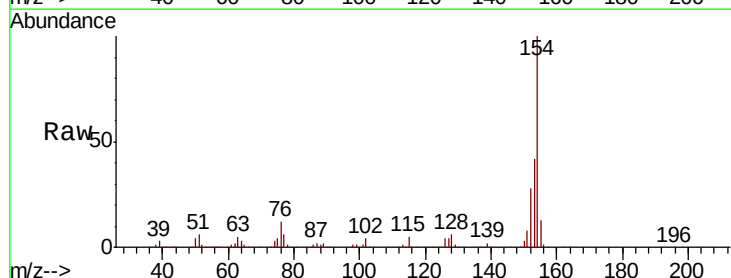
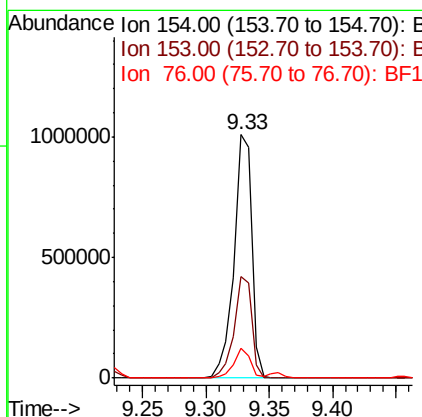
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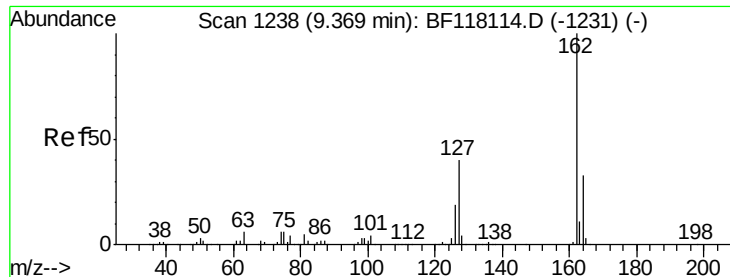
mohammad
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#46
1,1'-Biphenyl
Concen: 38.115 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.6	20.7	60.7
76	12.2	0.0	31.9





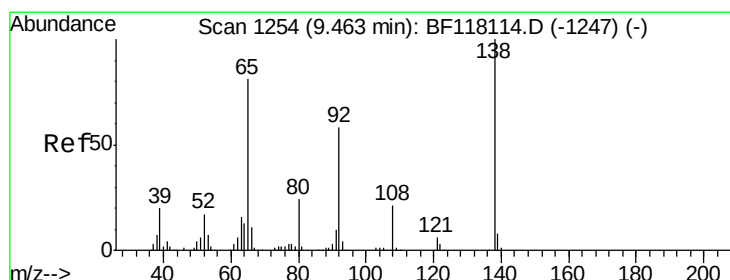
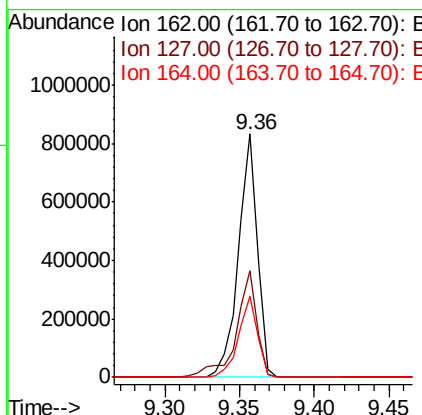
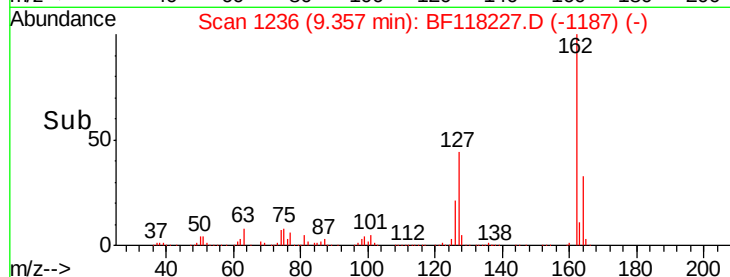
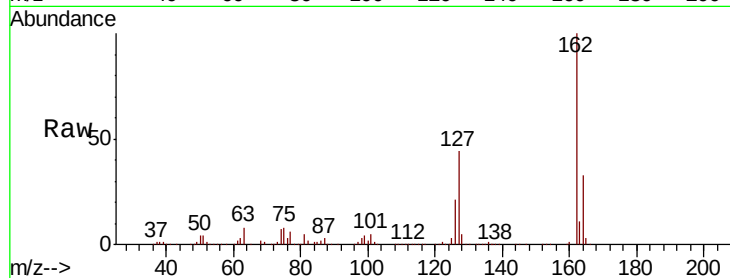
#47
 2-Chloronaphthalene
 Concen: 36.298 ng
 RT: 9.36 min Scan# 1236
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion:	162	Resp:	743681
Ion Ratio	Lower	Upper	
162	100		
127	43.6	32.0	48.0
164	33.4	26.1	39.1

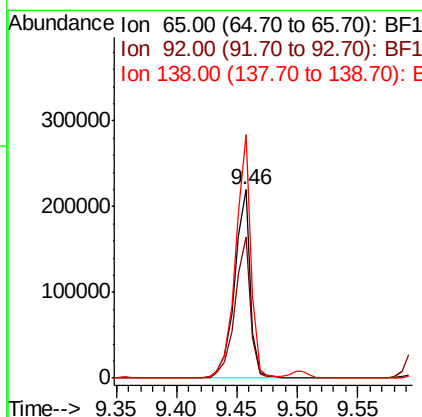
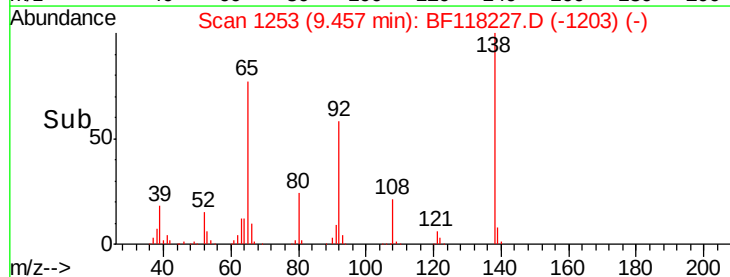
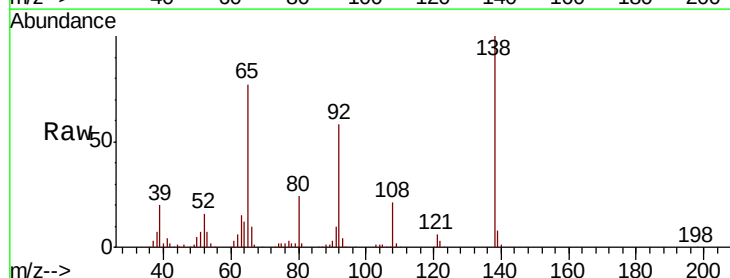
Manual Integrations
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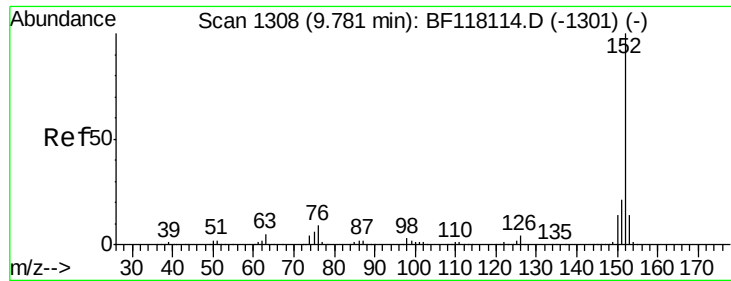
mohammad
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#48
 2-Nitroaniline
 Concen: 34.137 ng
 RT: 9.46 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion:	65	Resp:	199455
Ion Ratio	Lower	Upper	
65	100		
92	74.9	57.8	86.6
138	129.2	98.8	148.2





#49

Acenaphthylene

Concen: 39.068 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:152 Resp: 1180597

Ion Ratio Lower Upper

152 100

151 20.8 16.4 24.6

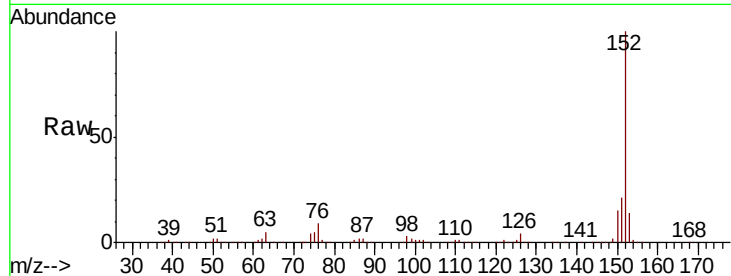
153 13.6 10.8 16.2

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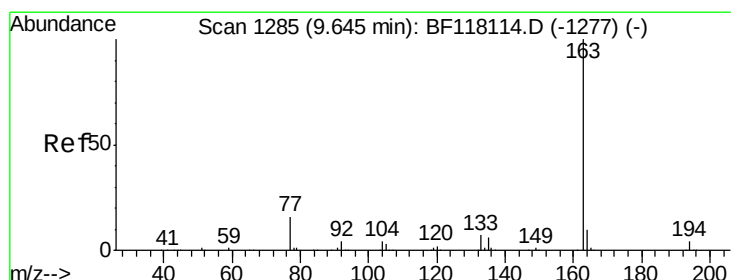
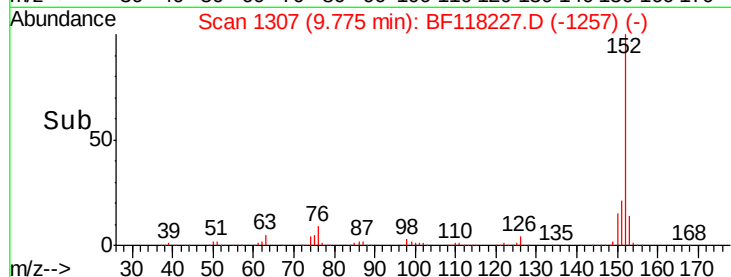
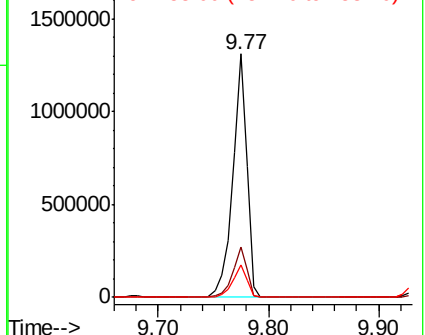
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 39.858 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

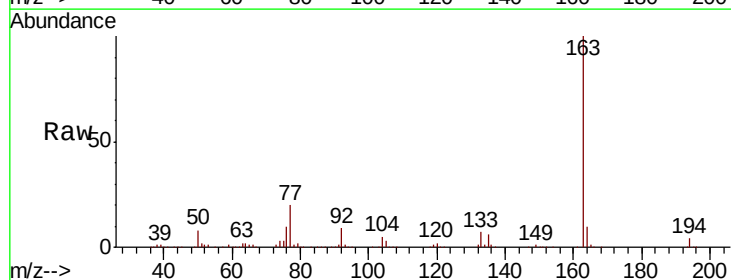
Tgt Ion:163 Resp: 950772

Ion Ratio Lower Upper

163 100

194 3.9 3.1 4.7

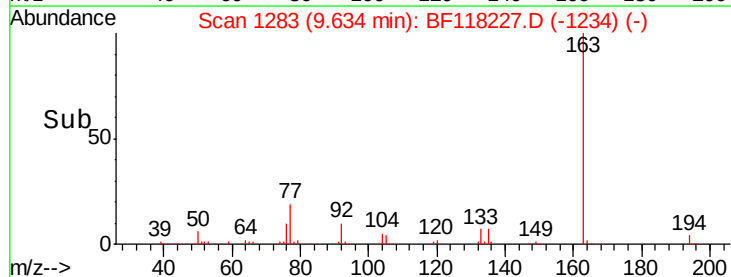
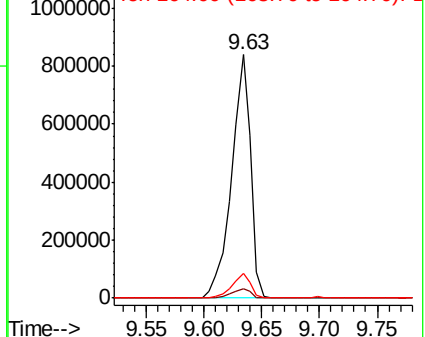
164 10.2 7.7 11.5

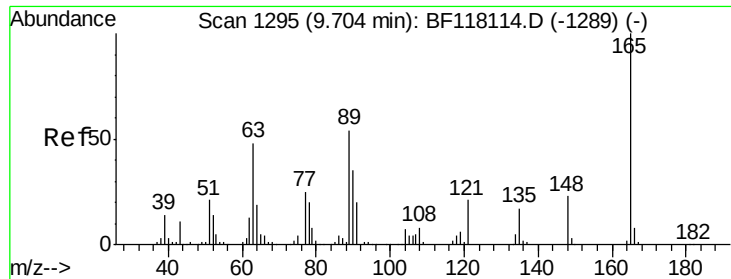


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 38.738 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

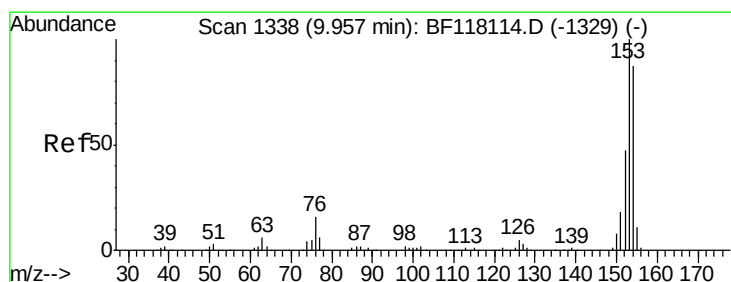
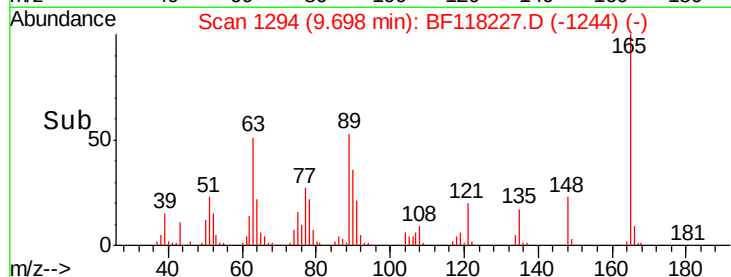
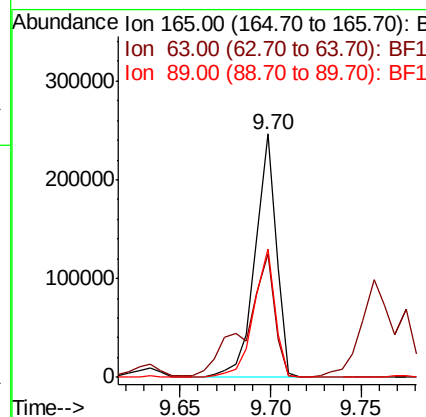
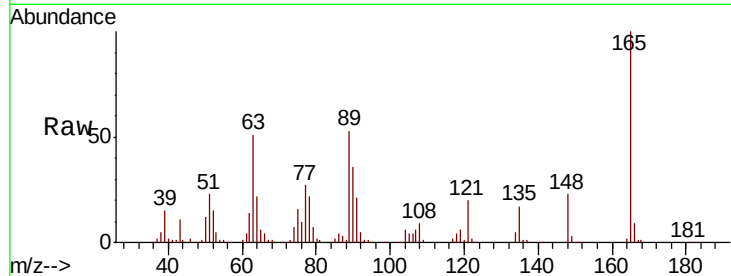
ClientSampleId :

42-SPRUCEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
165	100		200928		
63	50.5	41.4	62.0		
89	52.9	42.9	64.3		

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#52

Acenaphthene

Concen: 37.347 ng

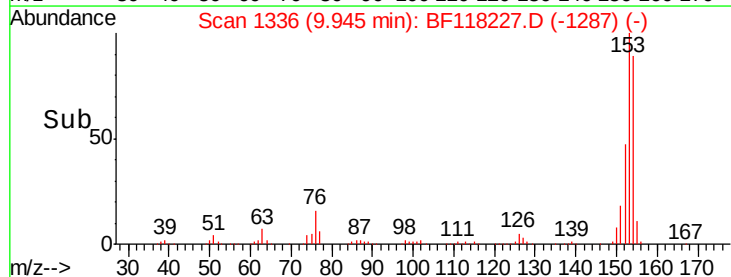
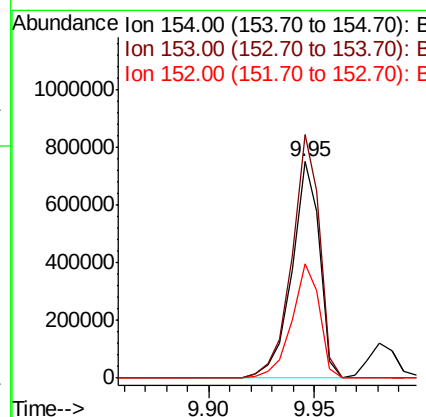
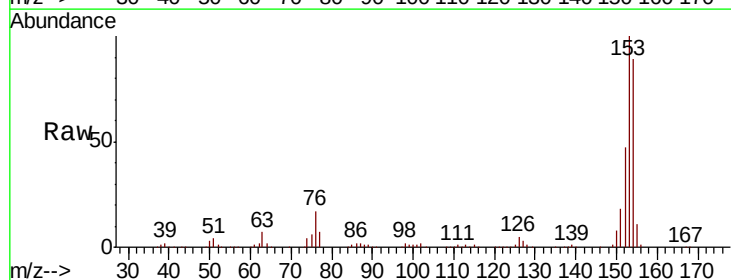
RT: 9.95 min Scan# 1336

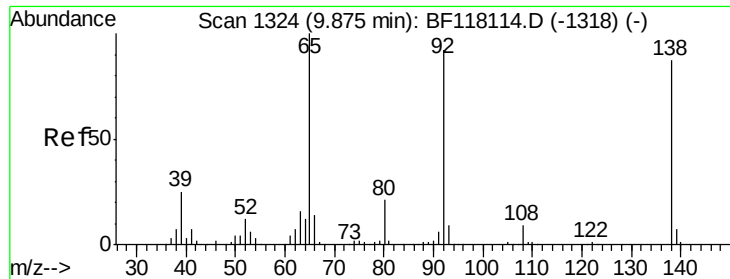
Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100		688854		
153	112.4	91.8	137.6		
152	52.9	43.3	64.9		





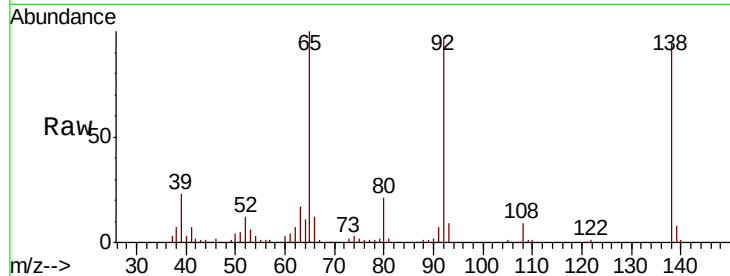
#53
3-Nitroaniline
Concen: 14.172 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
138	100		
108	9.6	8.2	12.4
92	103.1	84.9	127.3

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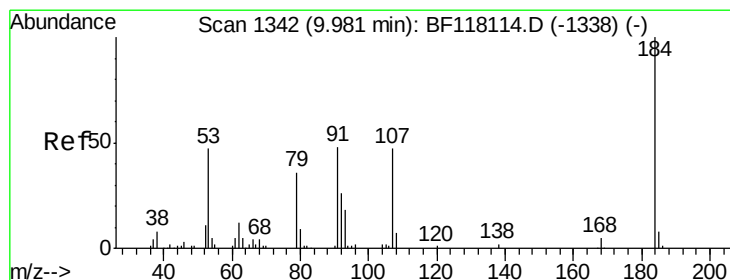
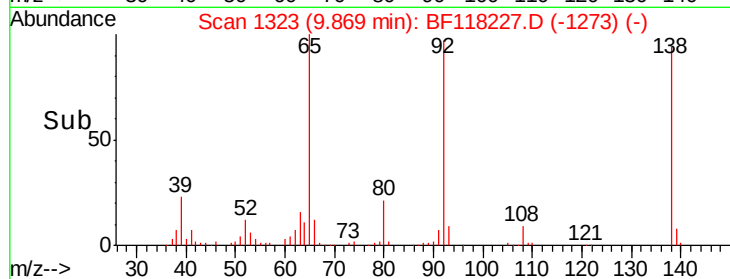
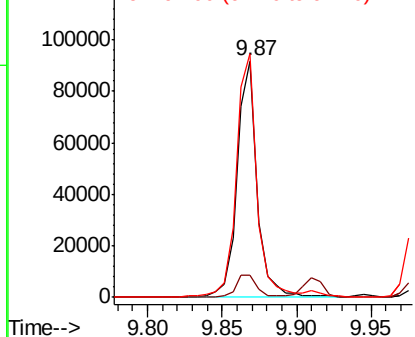


Abundance

Ion 138.00 (137.70 to 138.70): E

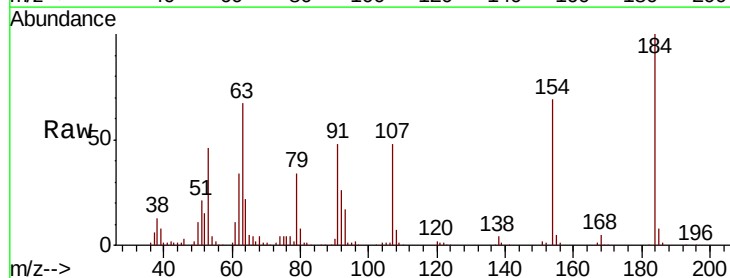
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 66.657 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
184	100		
63	67.1	53.9	80.9
154	69.0	56.3	84.5

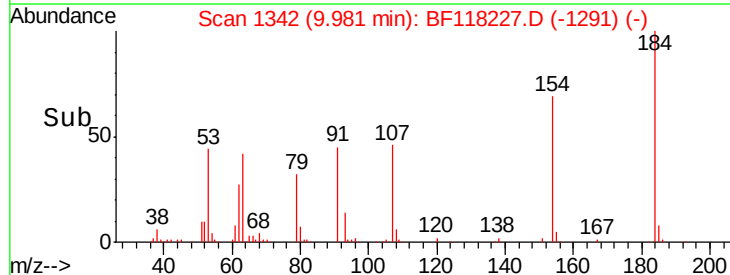
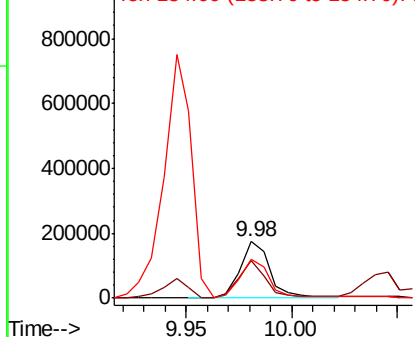


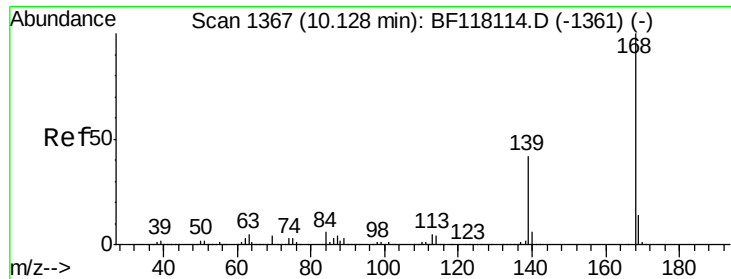
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





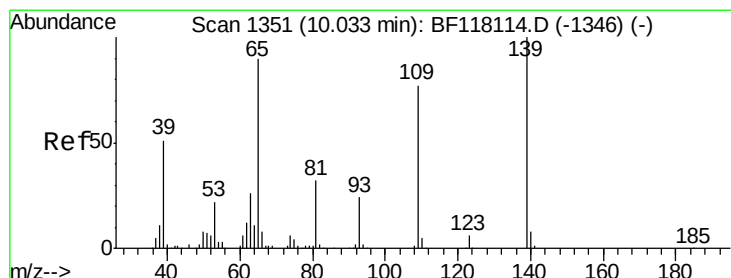
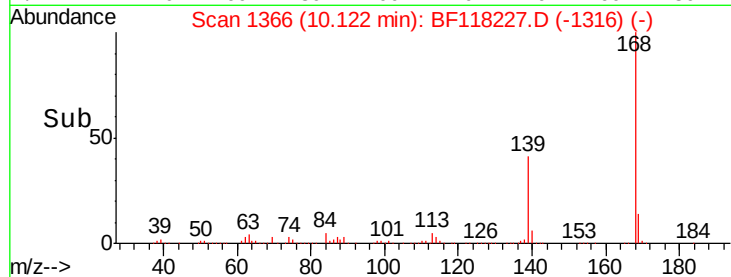
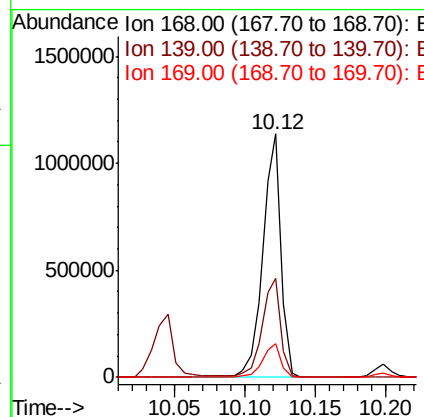
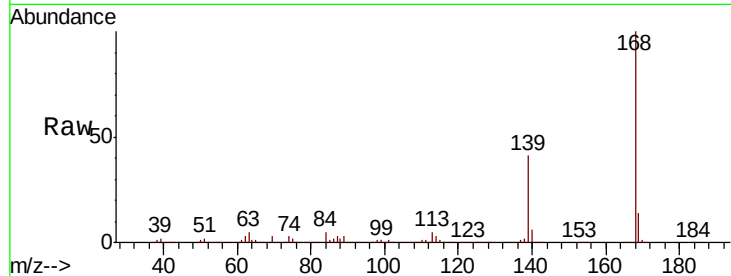
#55
Dibenzenofuran
Concen: 38.212 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.7	33.4	50.0
169	13.7	11.0	16.6

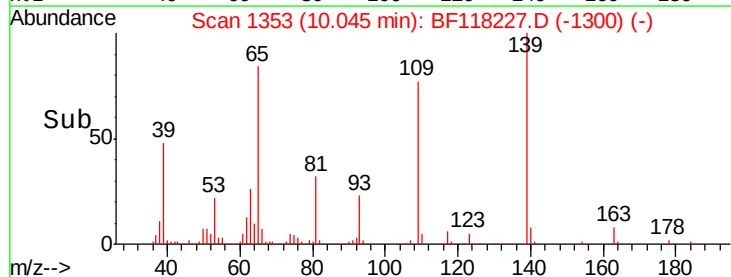
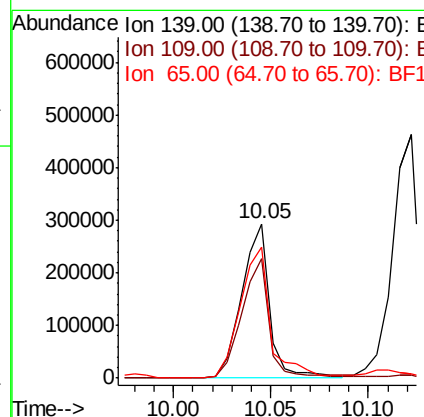
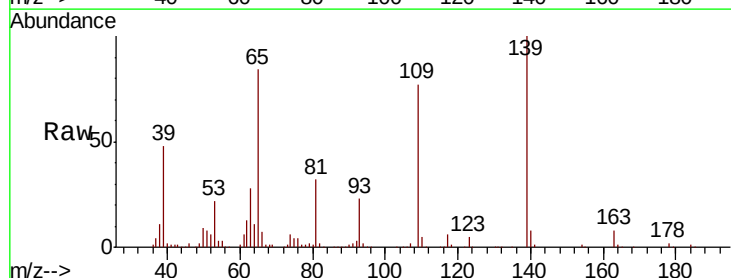
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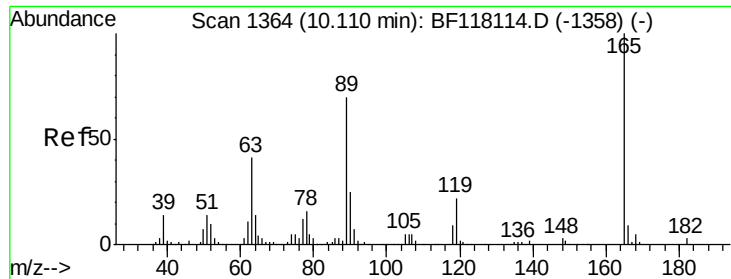
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#56
4-Nitrophenol
Concen: 68.515 ng
RT: 10.05 min Scan# 1353
Delta R.T. 0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
139	100		
109	77.0	57.3	97.3
65	84.4	70.2	110.2





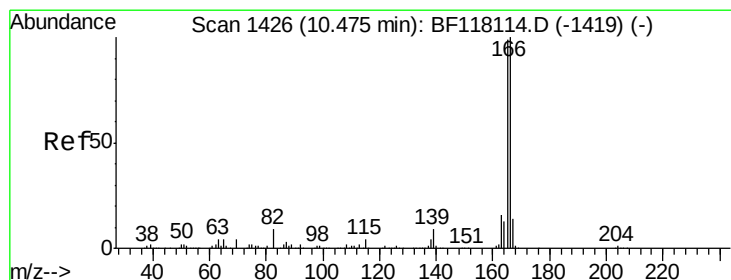
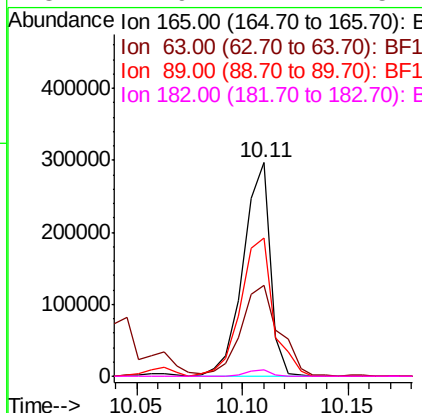
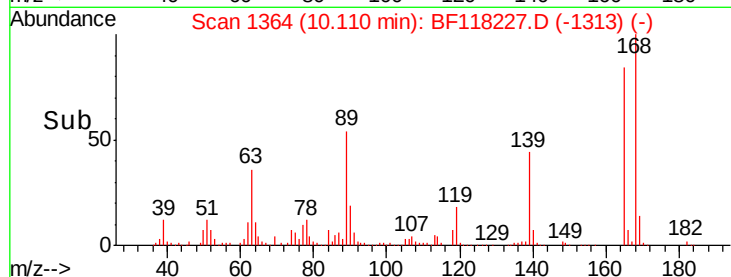
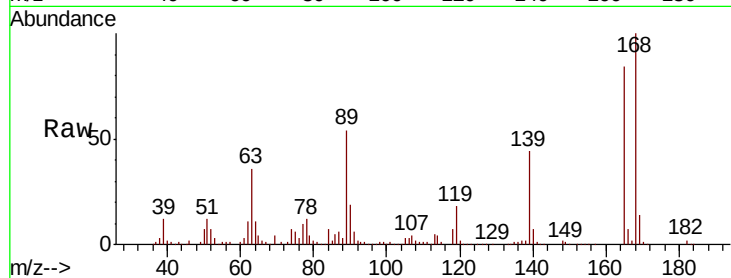
#57
2,4-Dinitrotoluene
Concen: 38.268 ng
RT: 10.11 min Scan# 1364
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
165	100	264934		
63	42.3		32.6	49.0
89	64.5		56.1	84.1
182	2.9		2.1	3.1

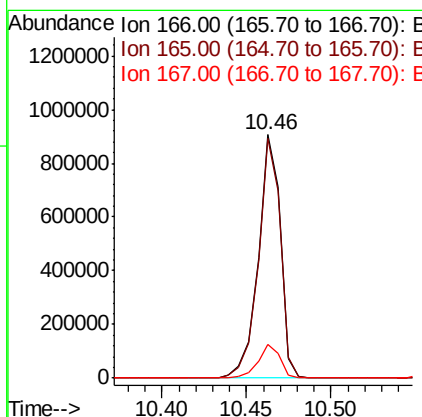
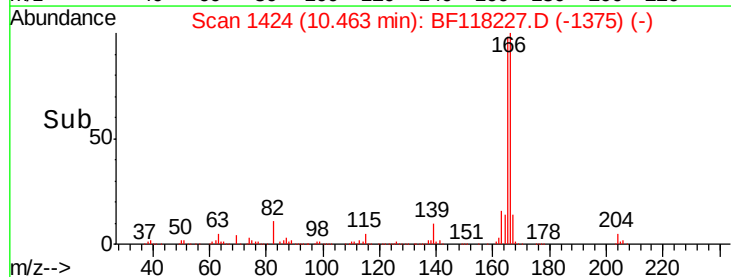
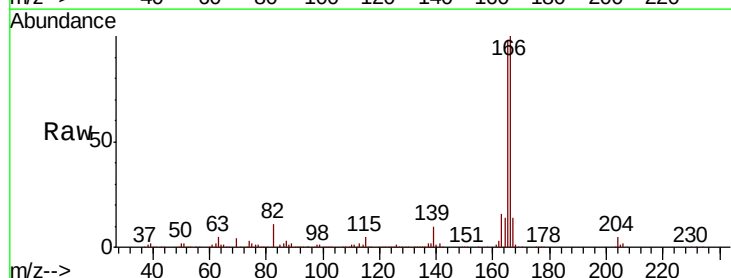
Manual Integrations
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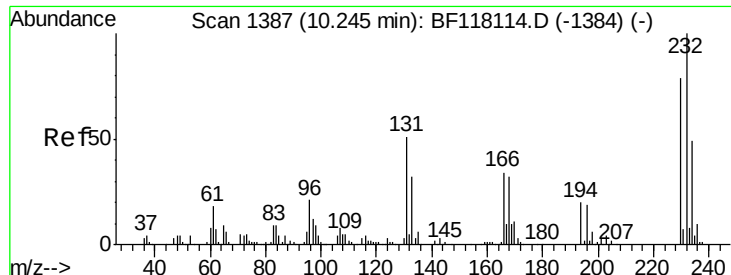
mohammad
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#58
Fluorene
Concen: 38.515 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	827212		
165	98.4		79.0	118.4
167	13.9		10.9	16.3





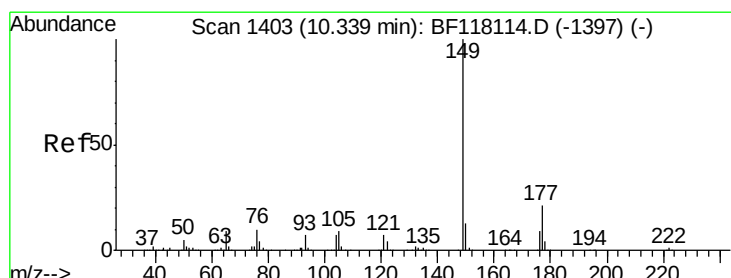
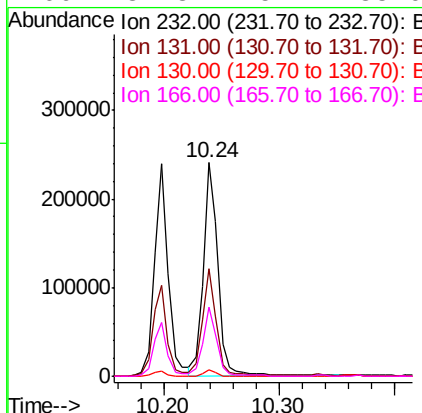
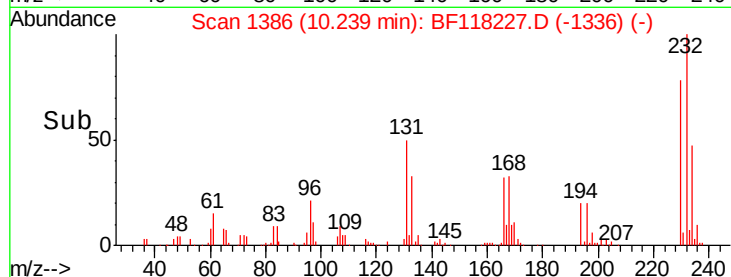
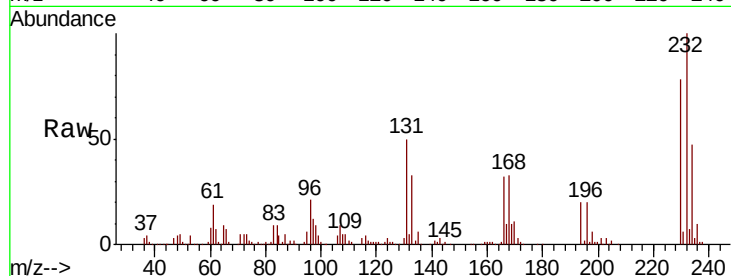
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.633 ng
RT: 10.24 min Scan# 1386
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
232	100	215699		
131	48.2		38.8	58.2
130	2.6		1.9	2.9
166	31.3		25.4	38.0

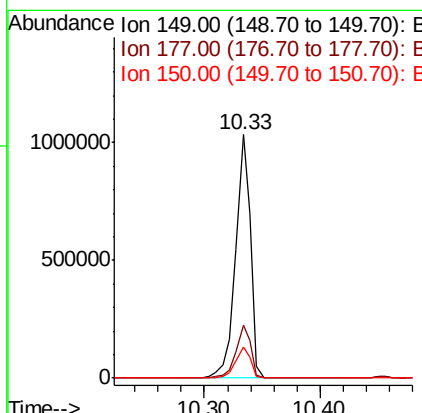
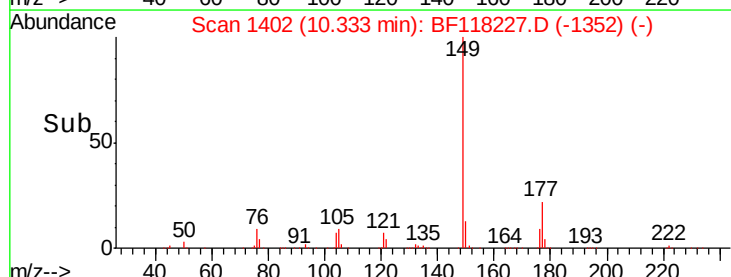
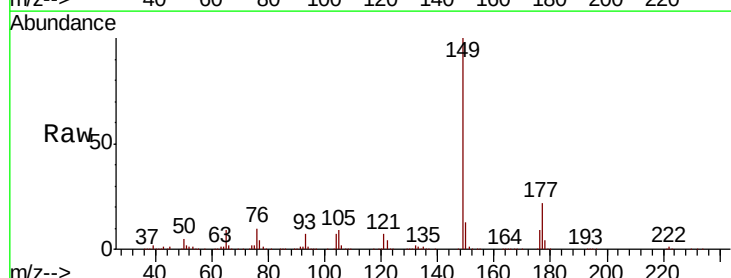
Manual Integrations
APPROVED

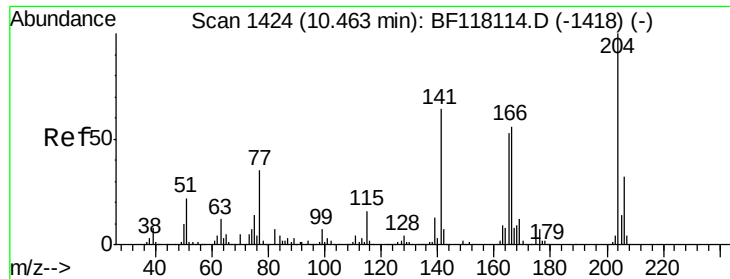
mohammad
12/18/2019 2:41:08 PM



#60
Diethylphthalate
Concen: 38.942 ng
RT: 10.33 min Scan# 1402
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	915233		
177	21.6		17.0	25.4
150	12.9		10.1	15.1





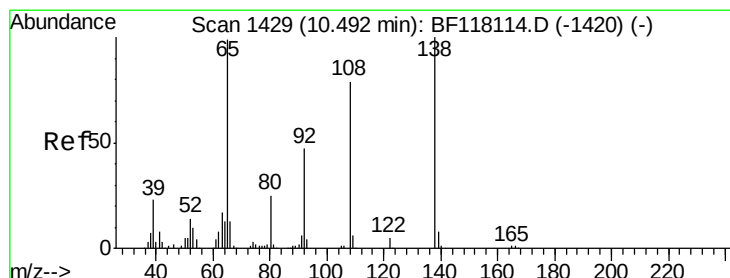
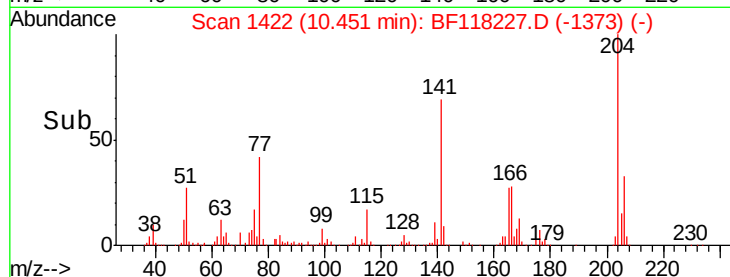
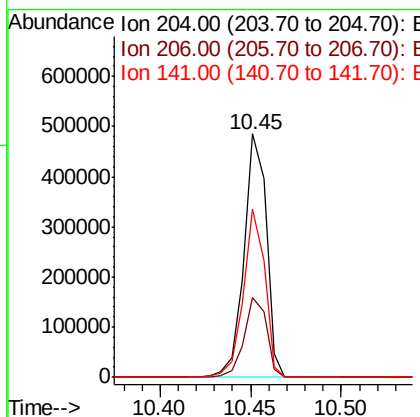
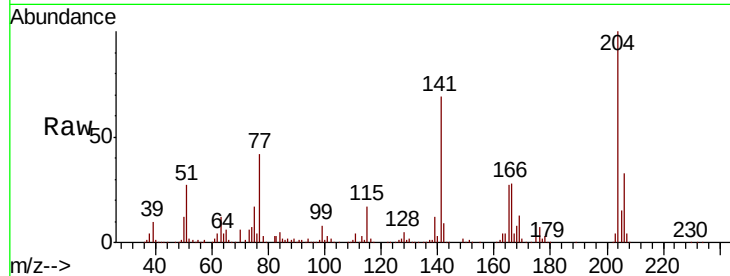
#61
4-Chlorophenyl-phenylether
Concen: 38.310 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	69.2	51.0	76.6

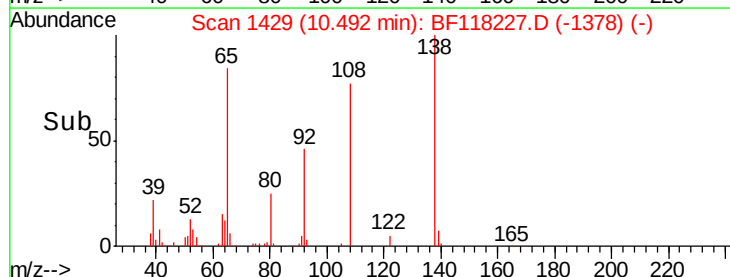
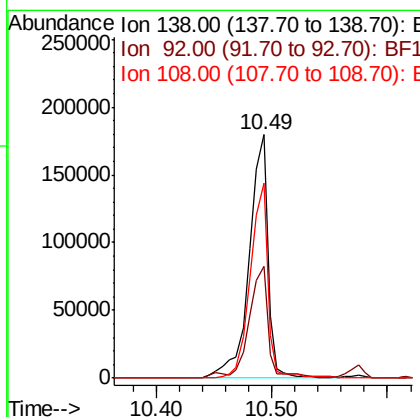
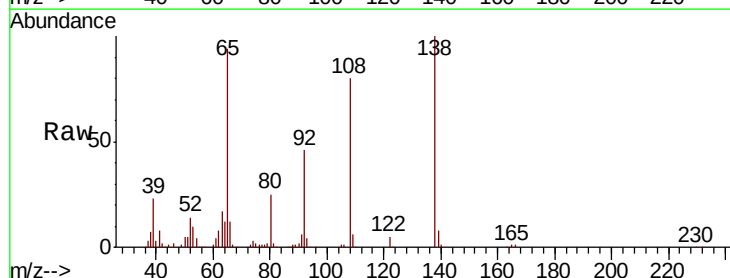
Manual Integrations
APPROVED

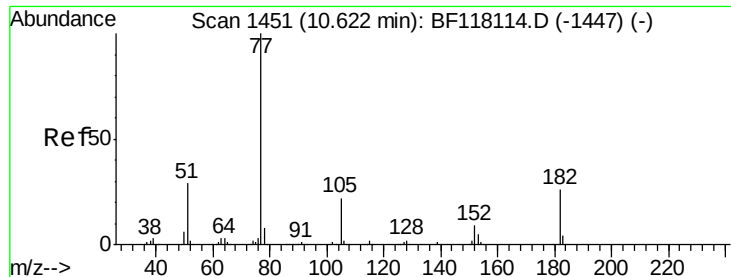
mohammad
12/18/2019 2:41:08 PM



#62
4-Nitroaniline
Concen: 31.999 ng
RT: 10.49 min Scan# 1429
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
138	100		
92	45.9	27.1	67.1
108	80.2	59.0	99.0





#63

Azobenzene

Concen: 38.639 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

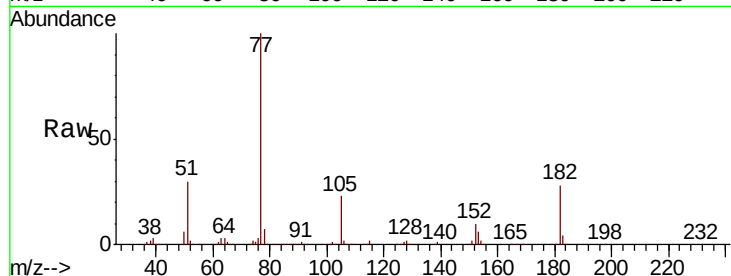
ClientSampleId :

42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
77	100		
182	28.4	5.7	45.7
105	22.9	2.2	42.2
51	29.6	9.6	49.6

Manual Integrations
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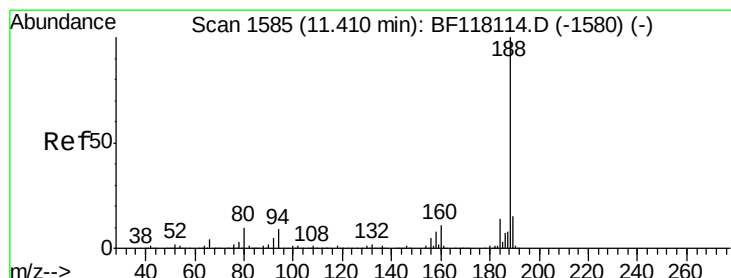
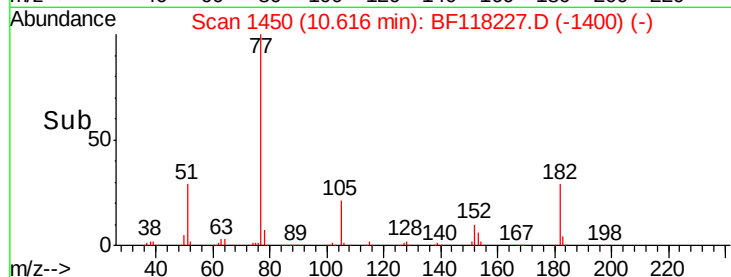
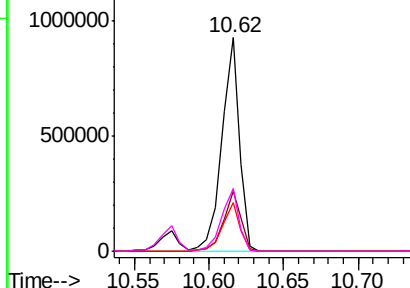


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

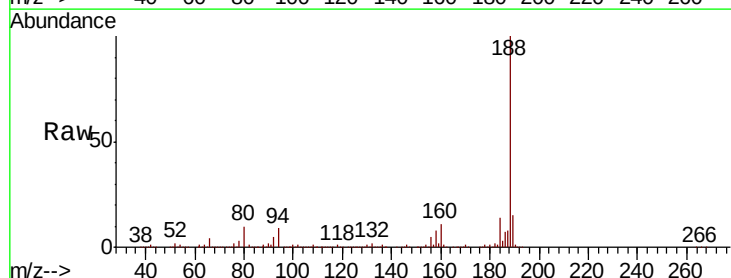
RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

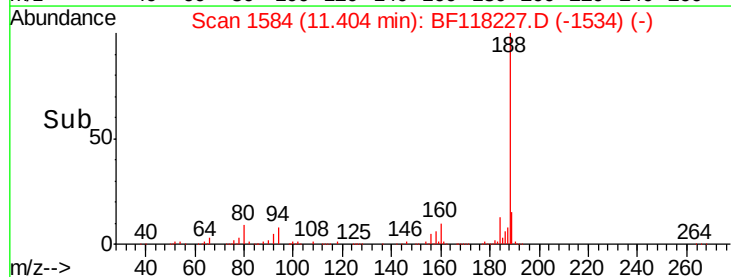
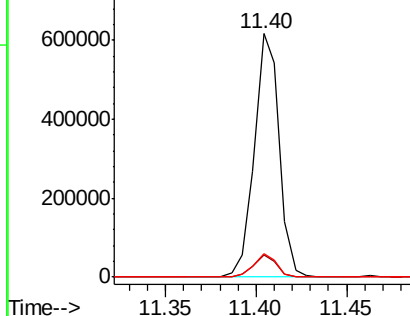
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.1	10.7
80	9.5	7.9	11.9

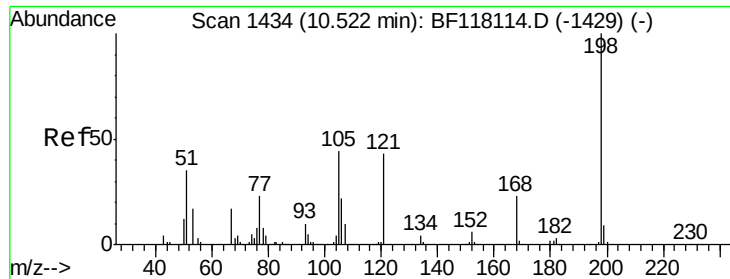


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





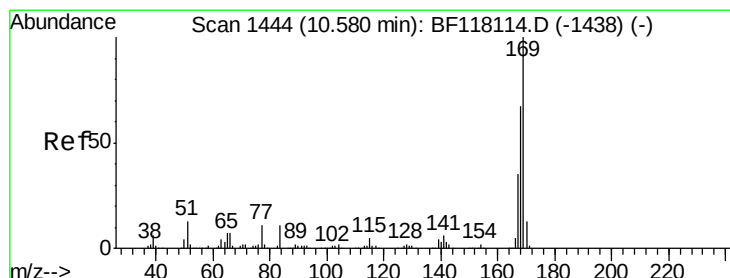
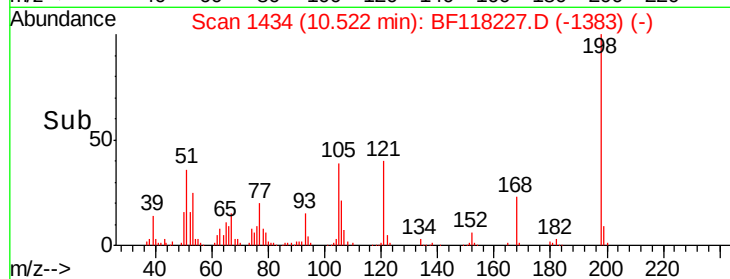
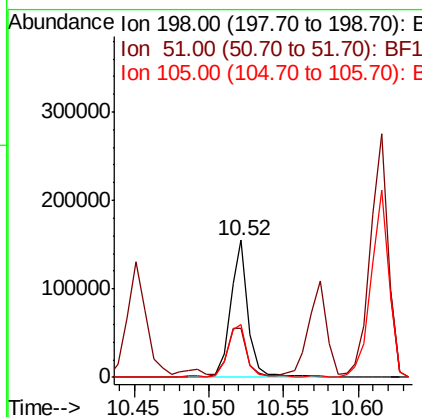
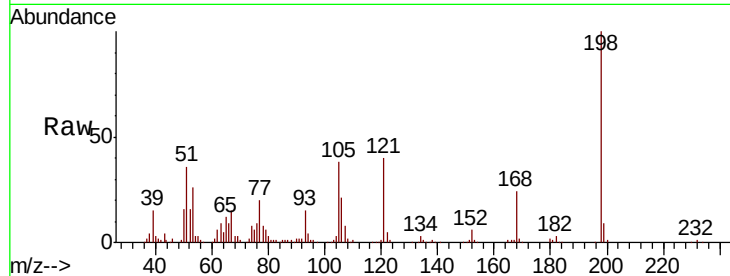
#65
4,6-Dinitro-2-methylphenol
Concen: 40.039 ng
RT: 10.52 min Scan# 1434
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
198	100	129550		
51	35.6	22.0	62.0	
105	38.5	25.6	65.6	

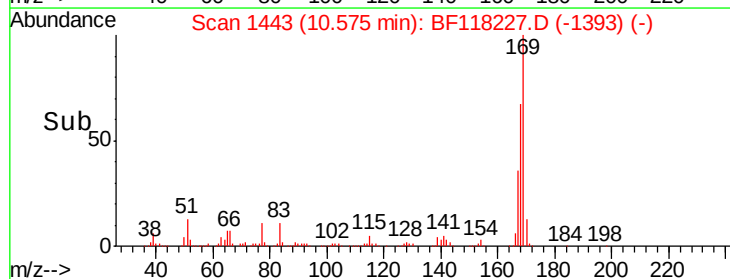
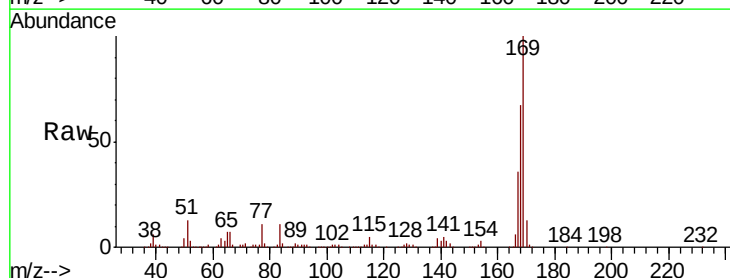
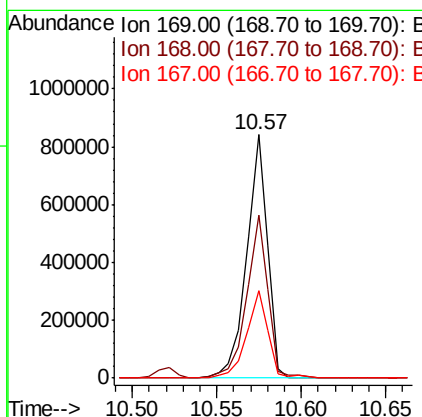
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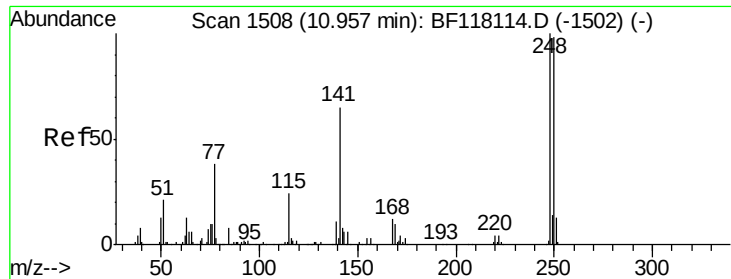
mohammad
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#66
n-Nitrosodiphenylamine
Concen: 39.882 ng
RT: 10.57 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	729694		
168	66.8	53.4	80.2	
167	35.9	28.4	42.6	





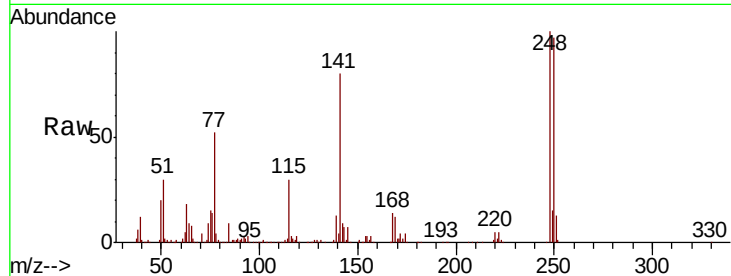
#67
4-Bromophenyl-phenylether
Concen: 39.091 ng
RT: 10.95 min Scan# 1506
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
248	100		
250	96.9	78.3	117.5
141	80.2	52.2	78.4

Manual Integrations
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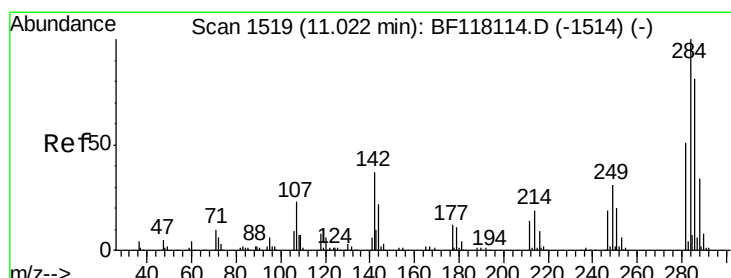
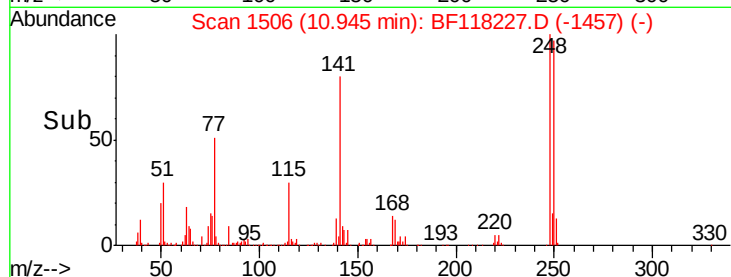
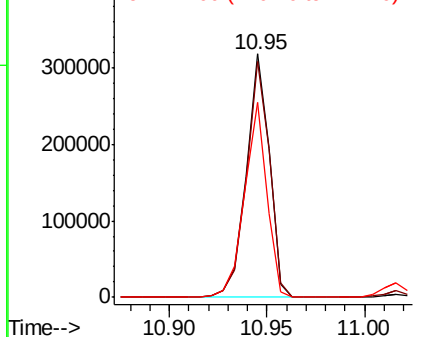


Abundance

Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68
Hexachlorobenzene
Concen: 37.425 ng
RT: 11.02 min Scan# 1518
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

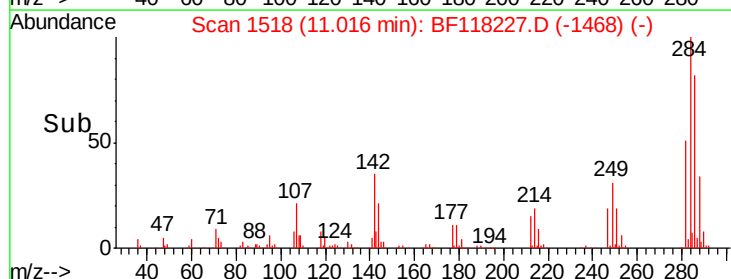
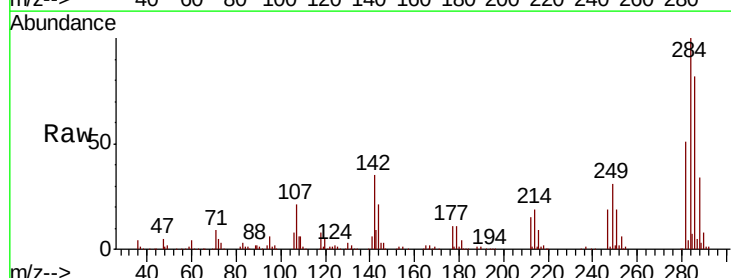
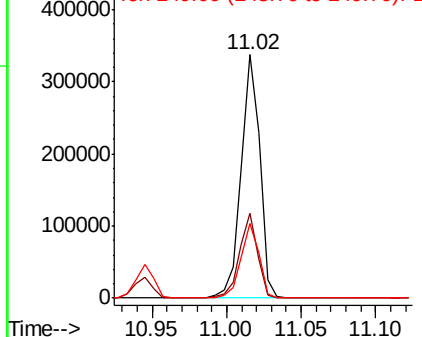
Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.9	29.7	44.5
249	30.8	24.6	37.0

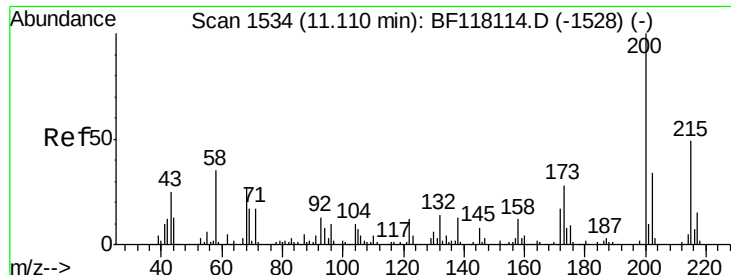
Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





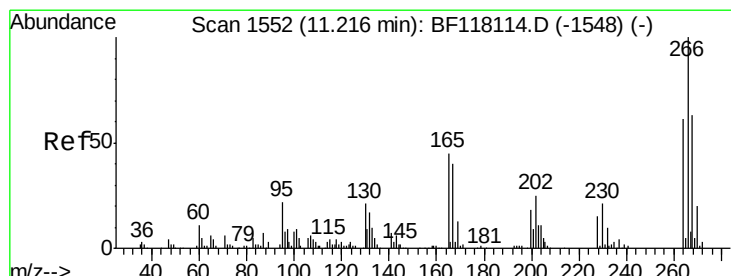
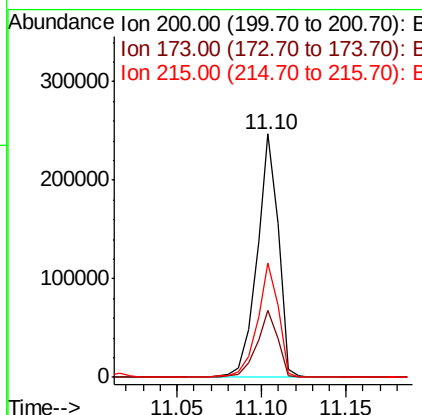
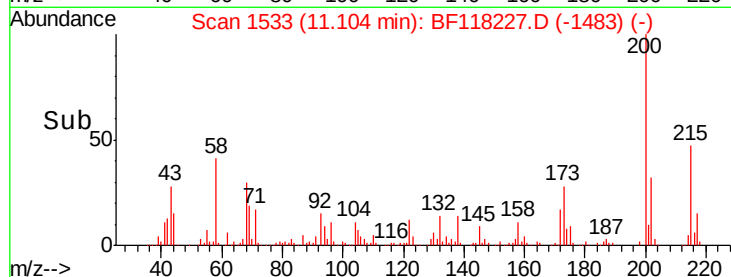
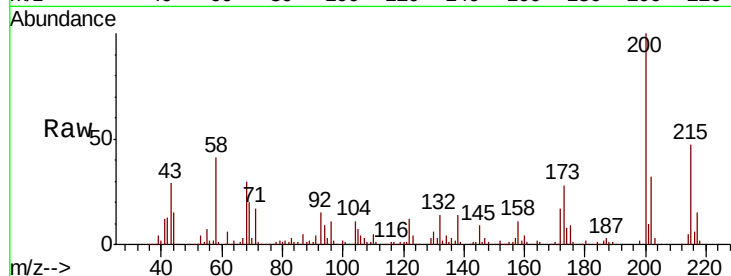
#69
Atrazine
Concen: 44.558 ng
RT: 11.10 min Scan# 1533
Delta R.T. -0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp Lower	Upper
200	100		
173	27.6	8.1	48.1
215	47.1	29.0	69.0

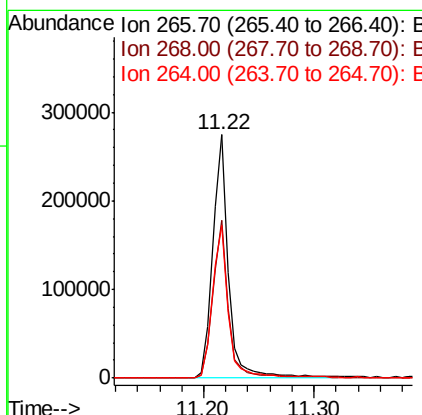
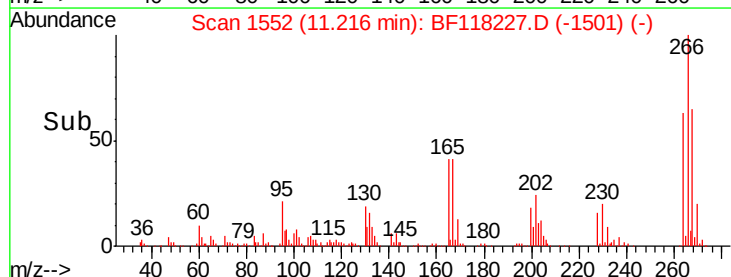
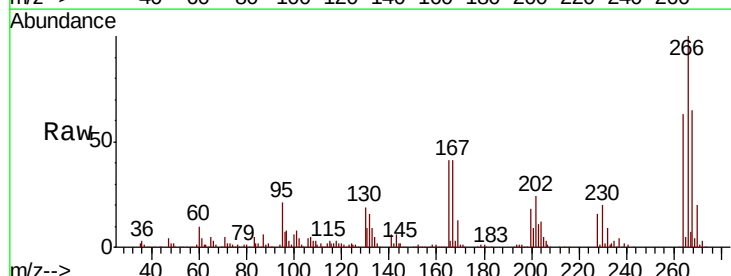
Manual Integrations
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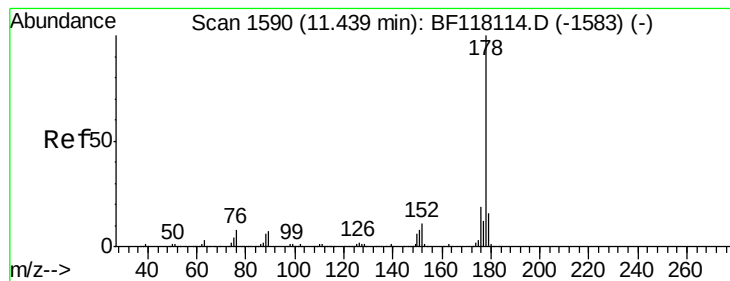
mohammad
12/18/2019 2:41:08 PM



#70
Pentachlorophenol
Concen: 72.668 ng
RT: 11.22 min Scan# 1552
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
268	64.9	50.7	76.1
264	62.9	48.7	73.1





#71

Phenanthrene

Concen: 40.236 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:178 Resp: 1253152

Ion Ratio Lower Upper

178 100

176 20.1 15.5 23.3

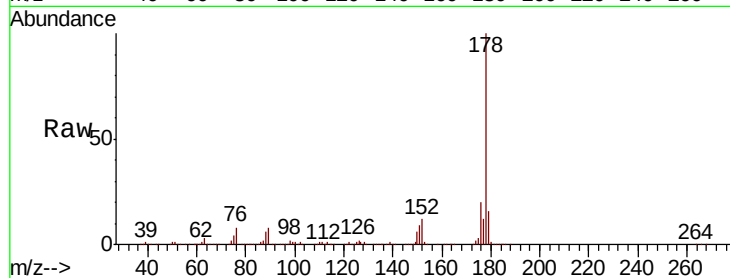
179 16.1 12.6 18.8

Manual Integrations

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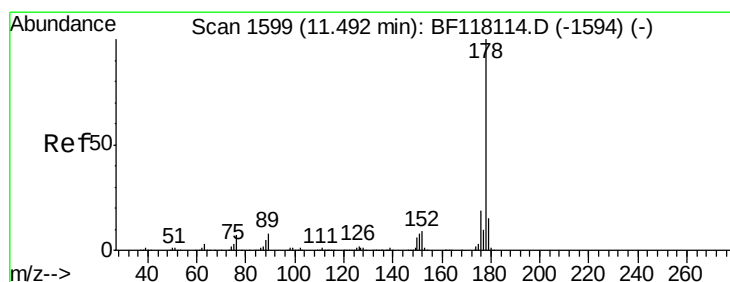
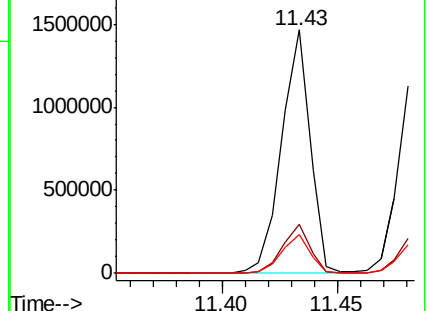
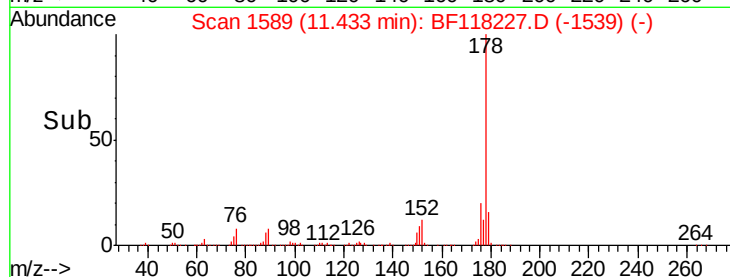
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 39.816 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

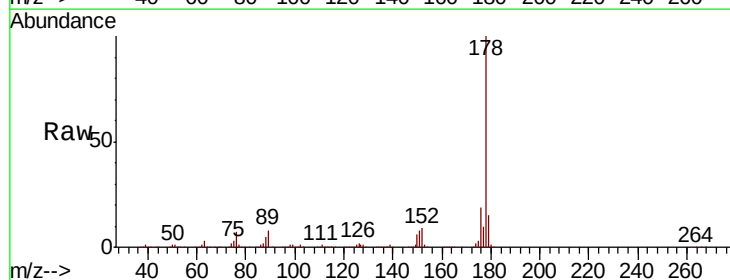
Tgt Ion:178 Resp: 1237065

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

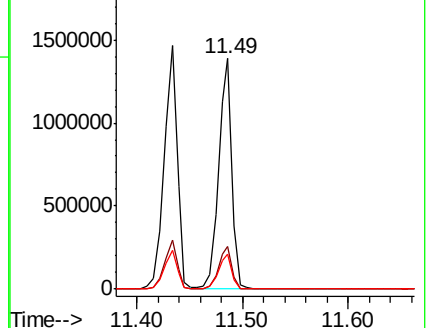
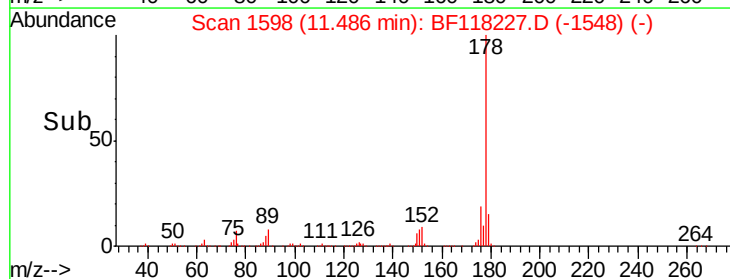
179 15.3 12.2 18.4

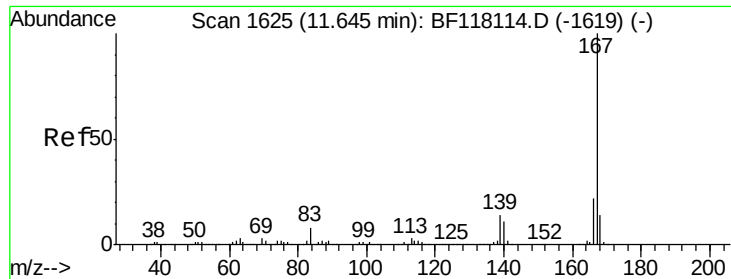


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





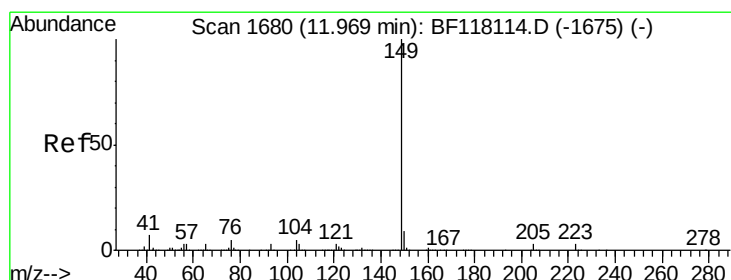
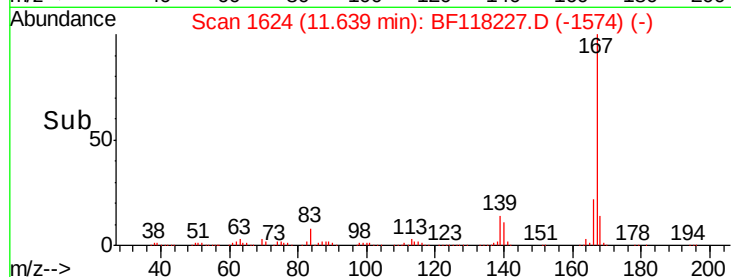
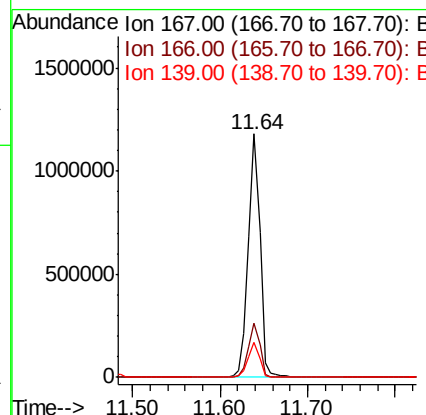
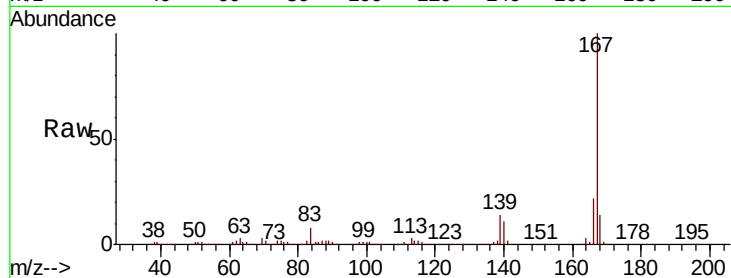
#73
 Carbazole
 Concen: 37.671 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	14.3	11.4	17.0

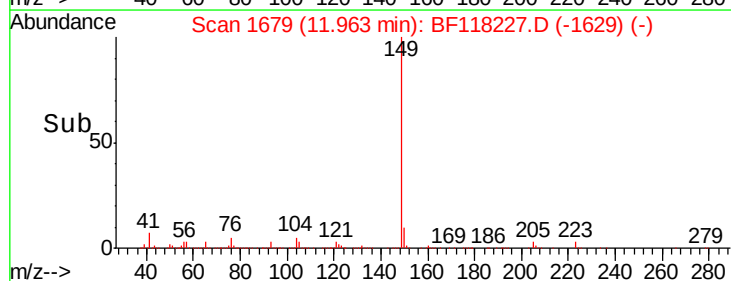
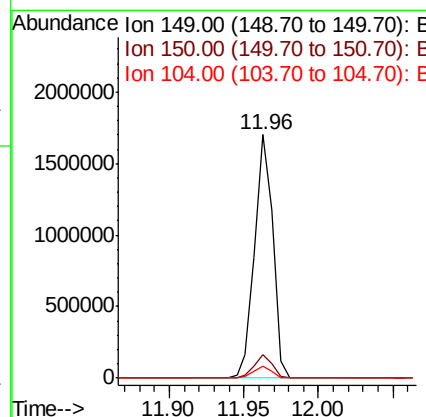
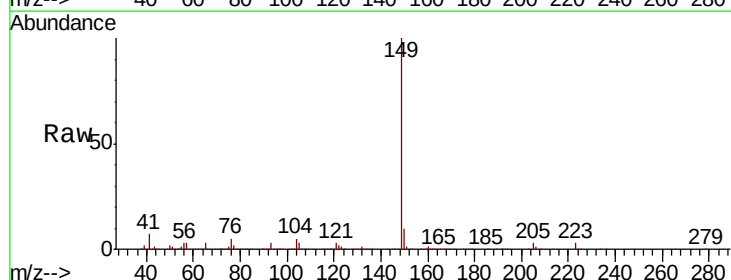
Manual Integrations
 APPROVED

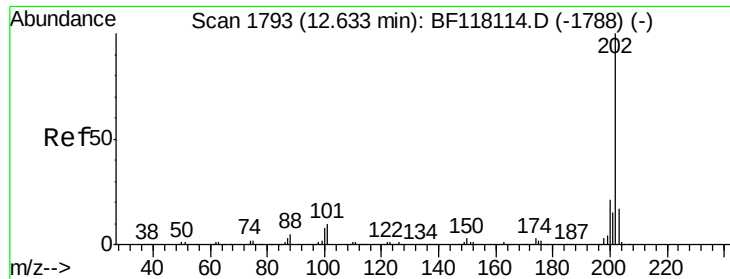
mohammad
 12/18/2019 2:41:08 PM



#74
 Di-n-butylphthalate
 Concen: 41.060 ng
 RT: 11.96 min Scan# 1679
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.4	11.2
104	5.1	4.3	6.5





#75

Fluoranthene

Concen: 40.955 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

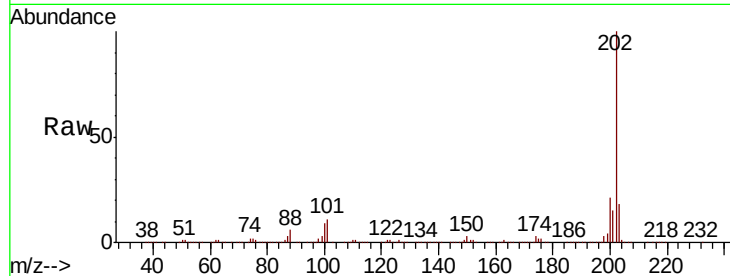
ClientSampleId :

42-SPRUCEMSD

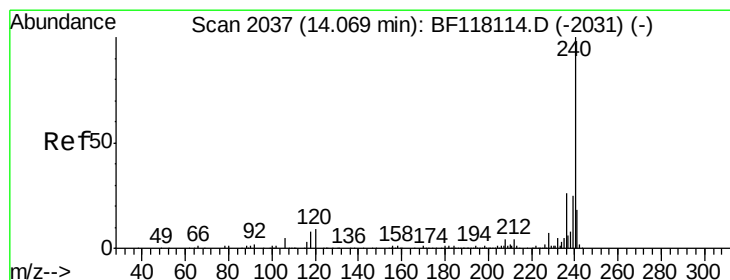
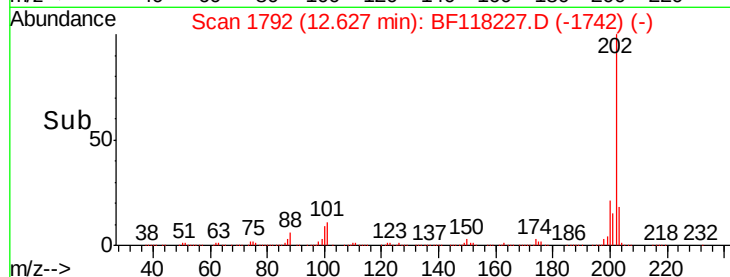
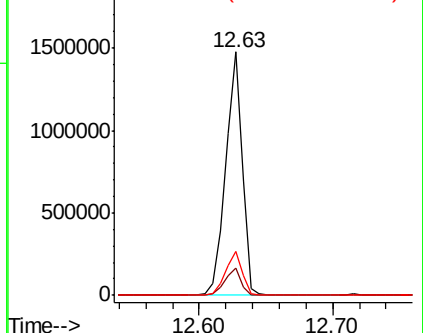
Tot Ion:	202	Resp:	1304135
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	30.4
203	17.9	0.0	37.2

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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

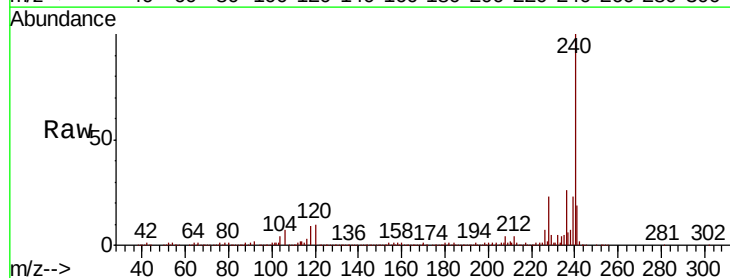
RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

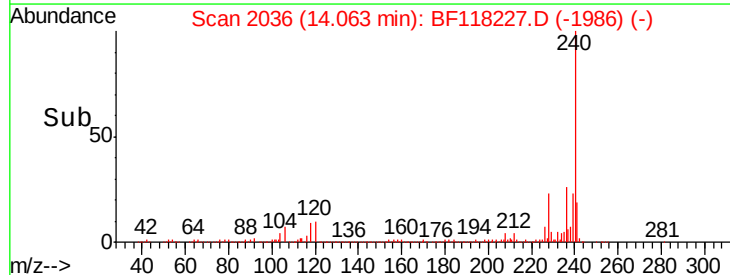
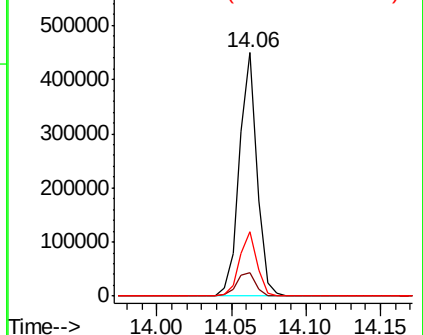
Lab File: BF118227.D

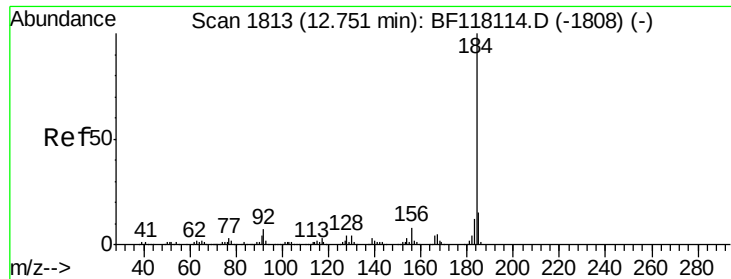
Acq: 17 Dec 2019 15:37

Tgt Ion:	240	Resp:	375299
Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.1	10.7
236	26.3	21.0	31.6



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 25.337 ng

RT: 12.75 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

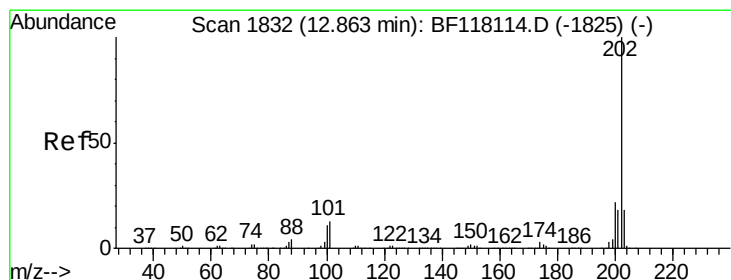
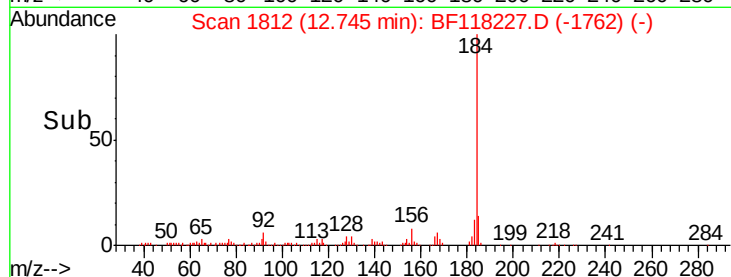
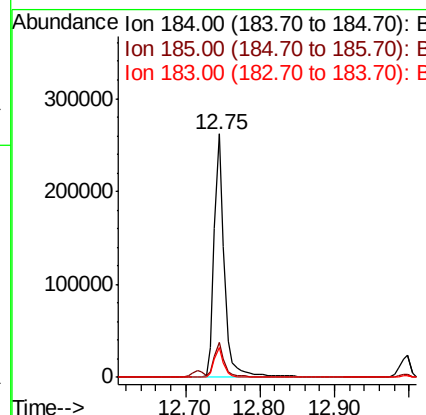
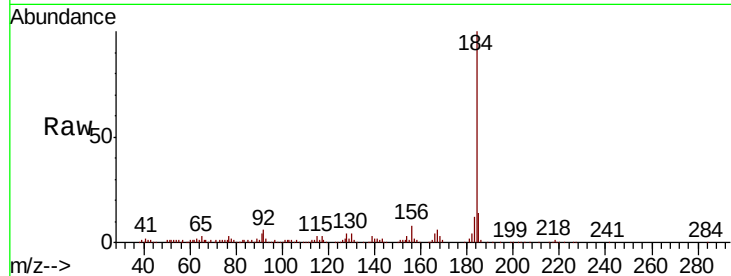
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	184	Resp:	250324
Ion Ratio	Lower	Upper	
184	100		
185	14.4	12.3	18.5
183	12.3	9.9	14.9

Manual Integrations
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#78

Pyrene

Concen: 45.456 ng

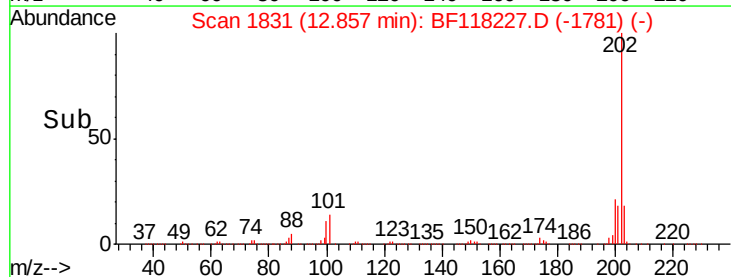
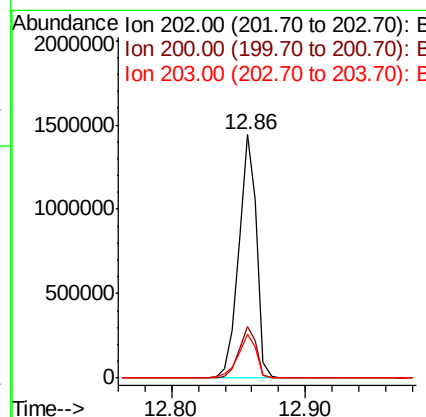
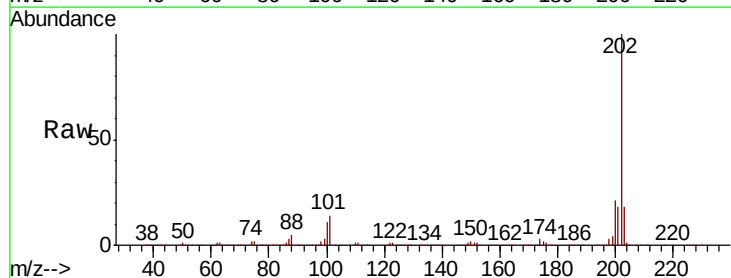
RT: 12.86 min Scan# 1831

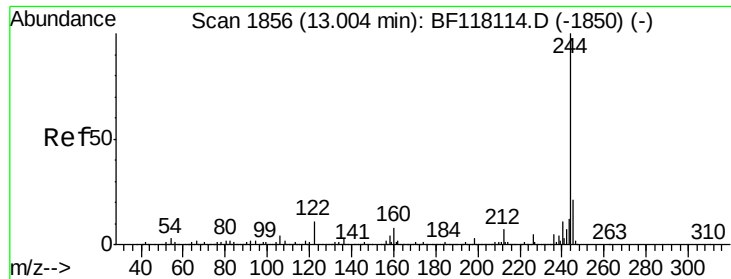
Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Tgt Ion:	202	Resp:	1344359
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.5	26.3
203	17.8	14.6	21.8





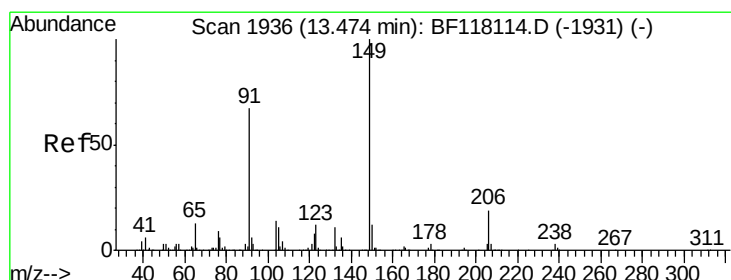
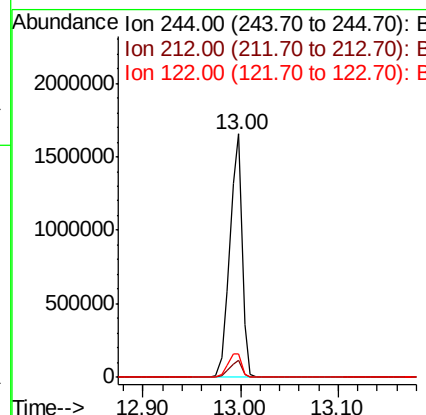
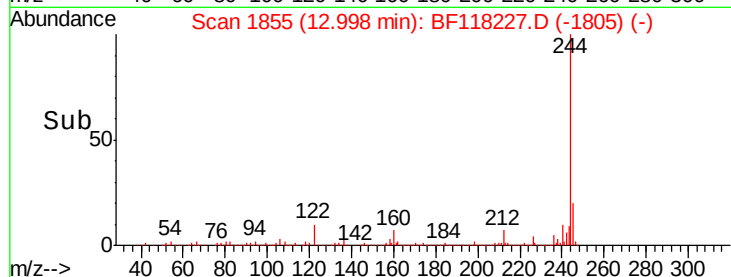
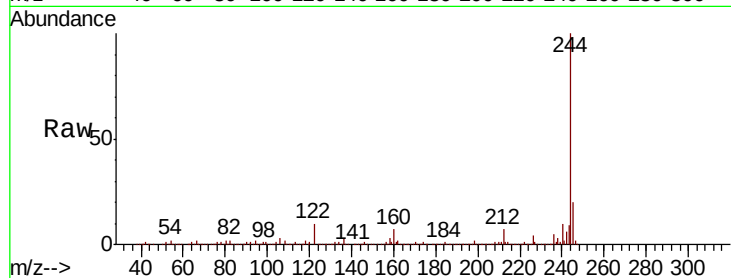
#79
 Terphenyl-d14
 Concen: 66.419 ng
 RT: 13.00 min Scan# 1856
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.9	8.9
122	9.7	9.0	13.6

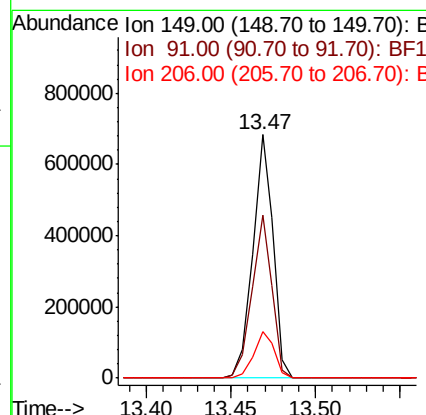
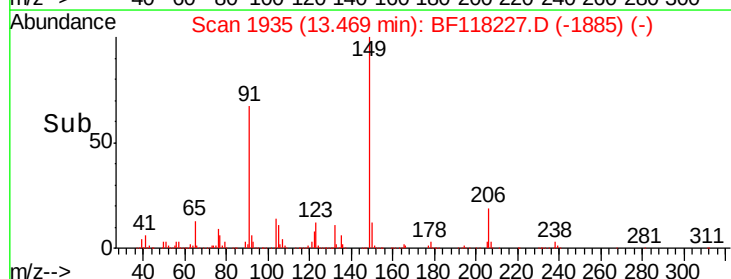
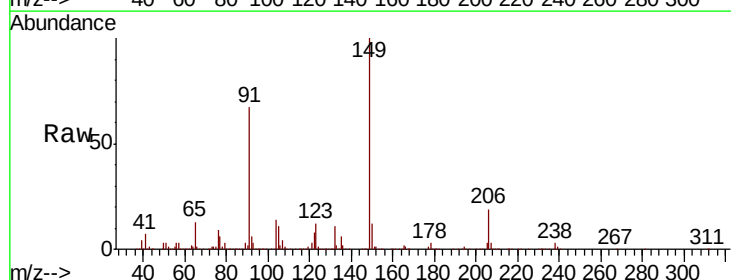
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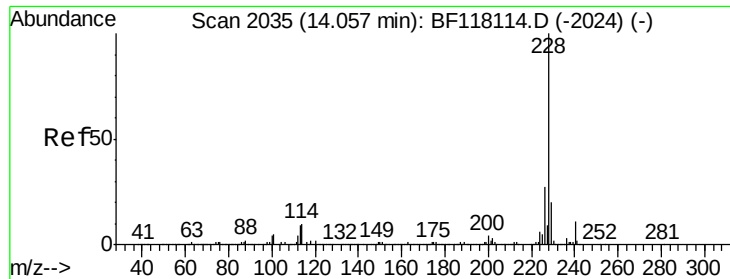
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#80
 Butylbenzylphthalate
 Concen: 42.948 ng
 RT: 13.47 min Scan# 1935
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
149	100		
91	67.0	53.9	80.9
206	19.0	15.2	22.8





#81

Benzo(a)anthracene

Concen: 39.756 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:228 Resp: 1031698

Ion Ratio Lower Upper

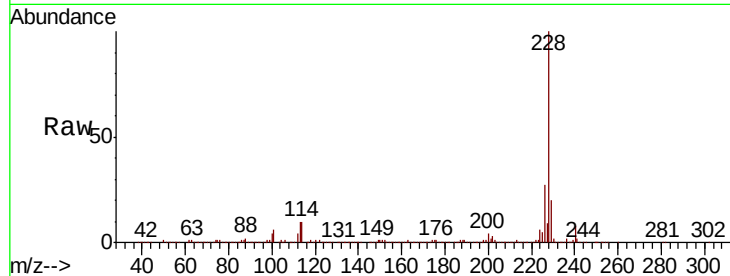
228 100

226 27.1 21.8 32.8

229 19.9 15.8 23.8

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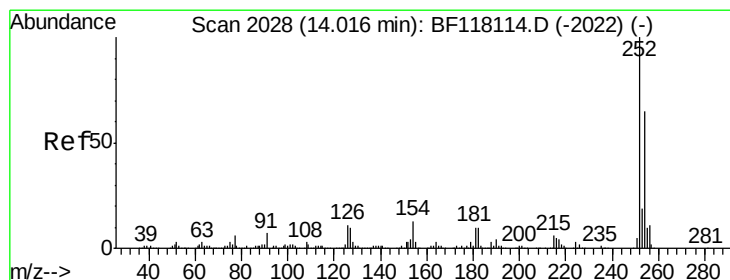
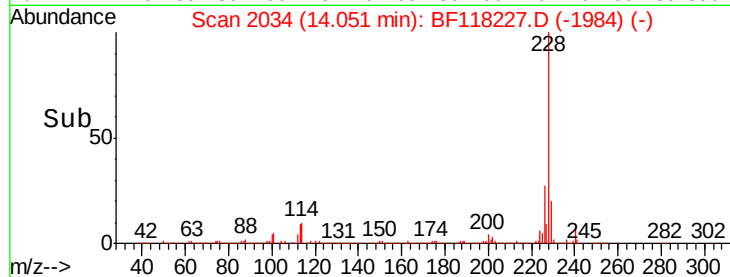
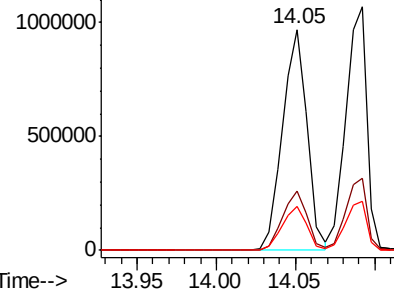
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 15.075 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

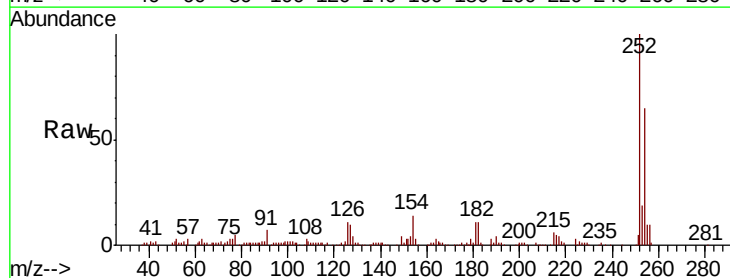
Tgt Ion:252 Resp: 128480

Ion Ratio Lower Upper

252 100

254 65.4 52.2 78.4

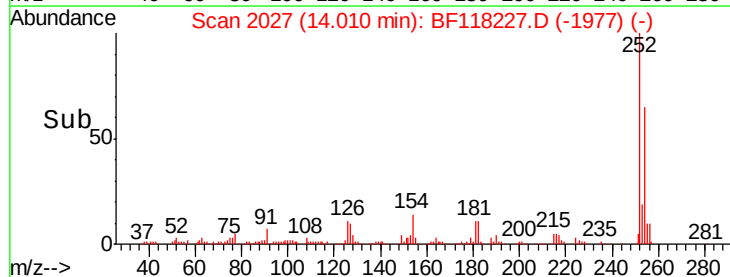
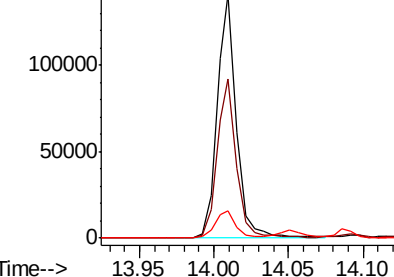
126 11.2 8.6 13.0

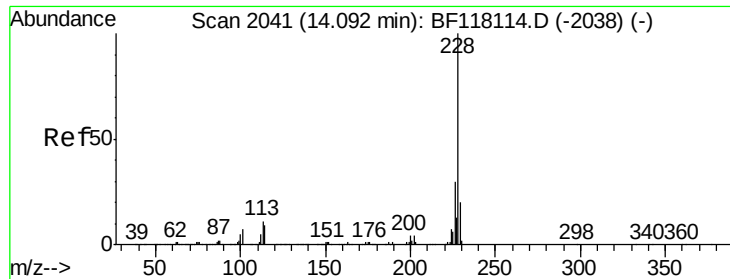


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





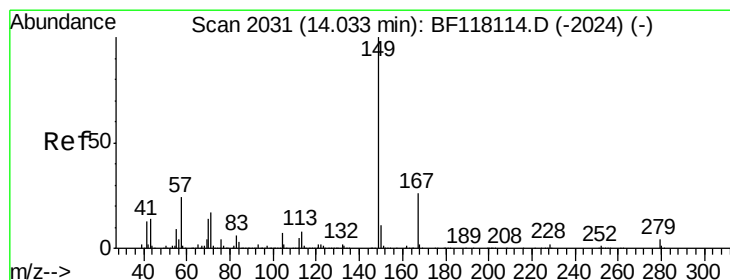
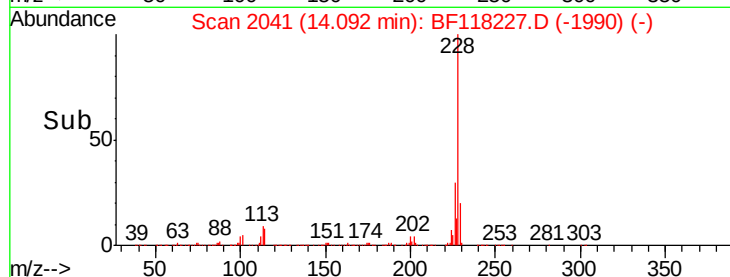
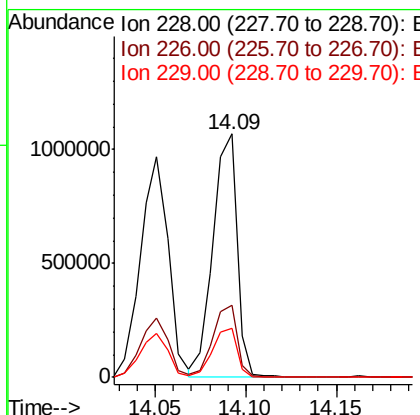
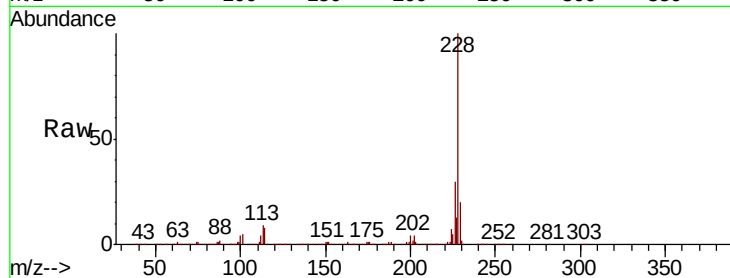
#83
 Chrysene
 Concen: 40.020 ng
 RT: 14.09 min Scan# 2041
 Delta R.T. 0.00 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	20.1	15.7	23.5

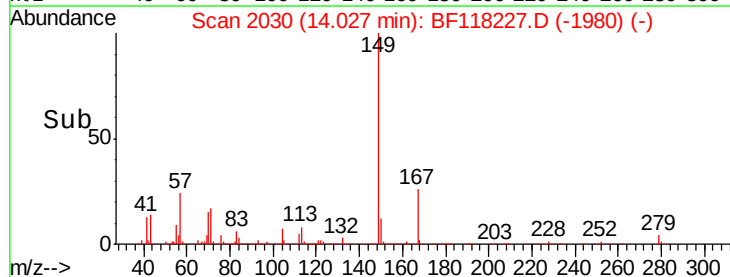
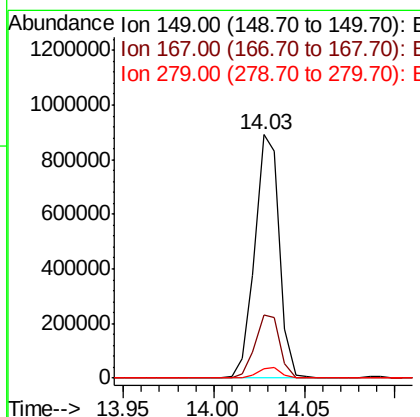
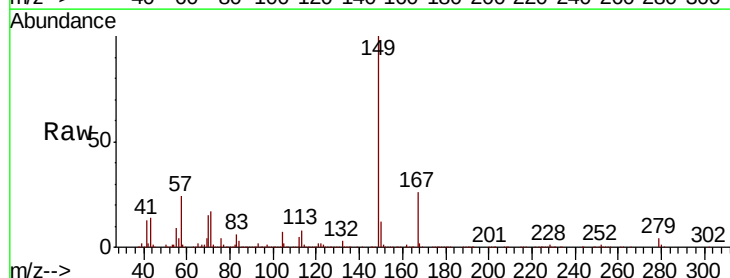
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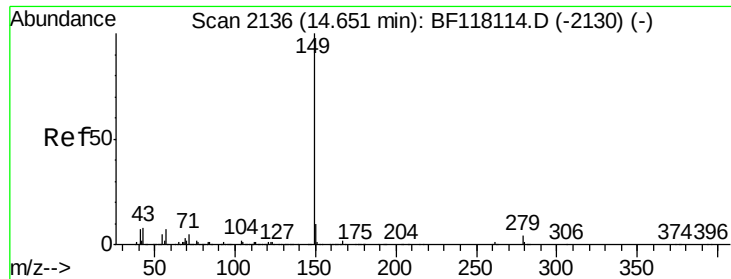
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#84
 Bis(2-ethylhexyl)phthalate
 Concen: 47.584 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF118227.D
 Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.8	31.2
279	3.6	2.9	4.3





#85

Di-n-octyl phthalate

Concen: 48.701 ng

RT: 14.64 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

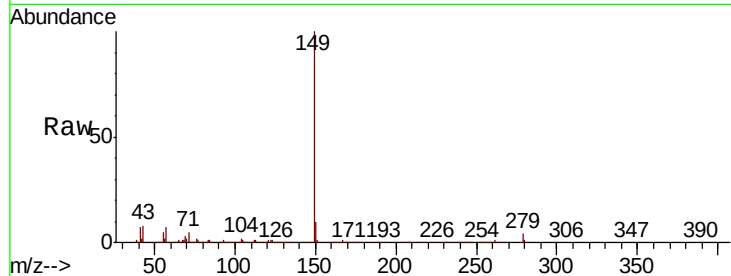
ClientSampleId :

42-SPRUCEMSD

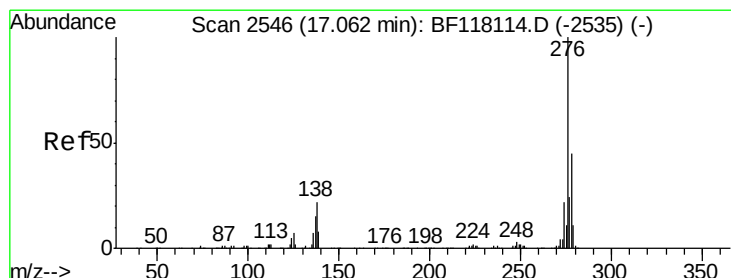
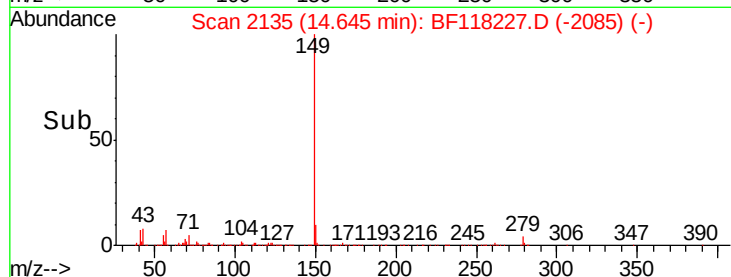
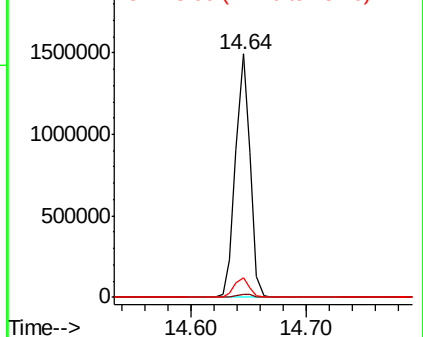
Tot Ion:	149	Resp:	1302949
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.5	9.7

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Abundance Ion 149.00 (148.70 to 149.70): E
2000000 Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 41.715 ng

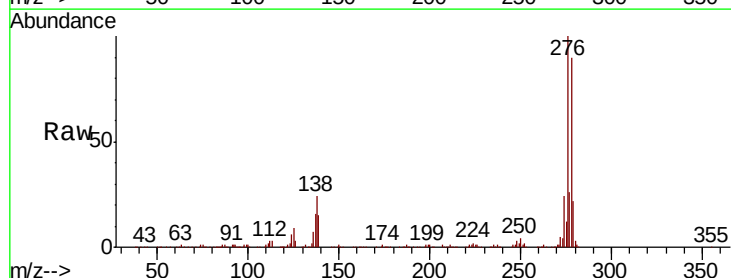
RT: 17.07 min Scan# 2547

Delta R.T. 0.01 min

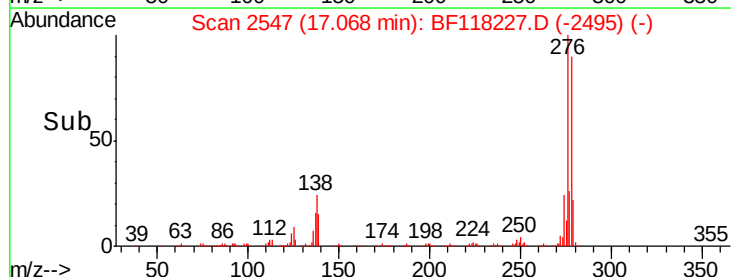
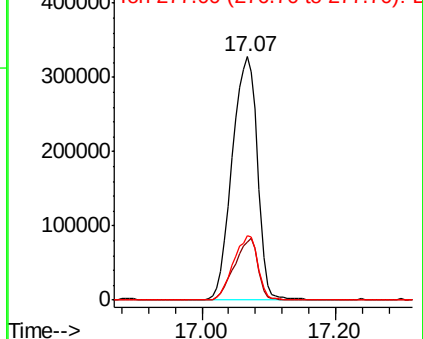
Lab File: BF118227.D

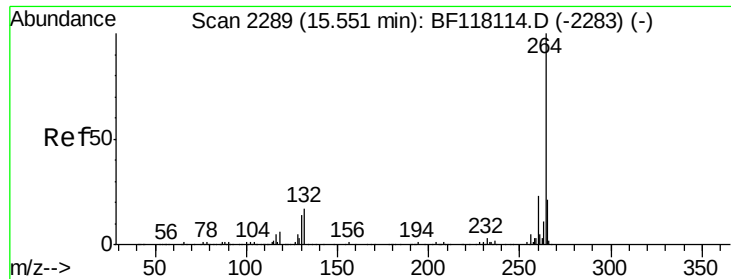
Acq: 17 Dec 2019 15:37

Tgt Ion:	276	Resp:	870062
Ion	Ratio	Lower	Upper
276	100		
138	23.7	18.9	28.3
277	25.9	20.4	30.6



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BF118227.D

Acq: 17 Dec 2019 15:37

Instrument :

BNA_F

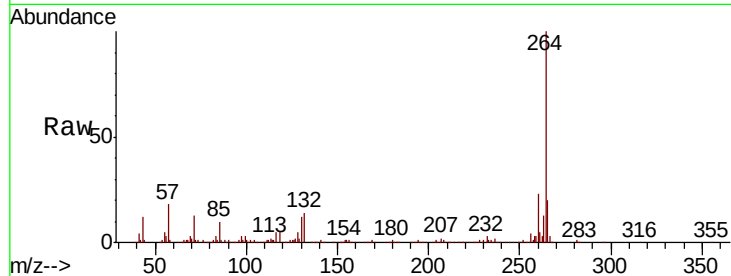
ClientSampleId :

42-SPRUCEMSD

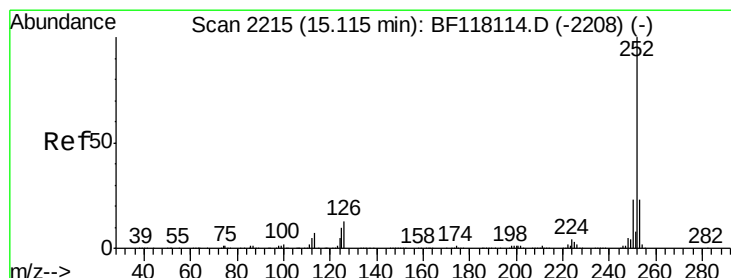
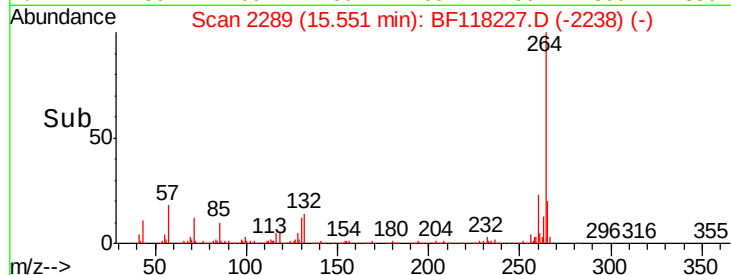
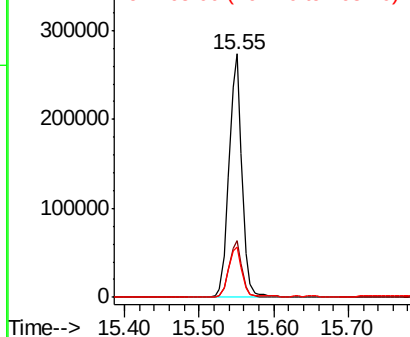
Tot Ion:	264	Resp:	336249
Ion Ratio	Lower	Upper	
264	100		
260	23.1	18.6	28.0
265	20.5	16.8	25.2

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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



#88

Benzo(b)fluoranthene

Concen: 39.309 ng

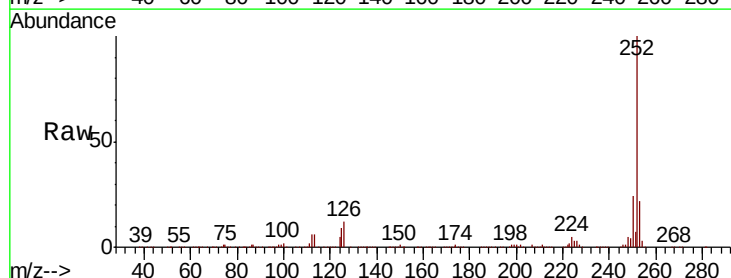
RT: 15.12 min Scan# 2215

Delta R.T. 0.00 min

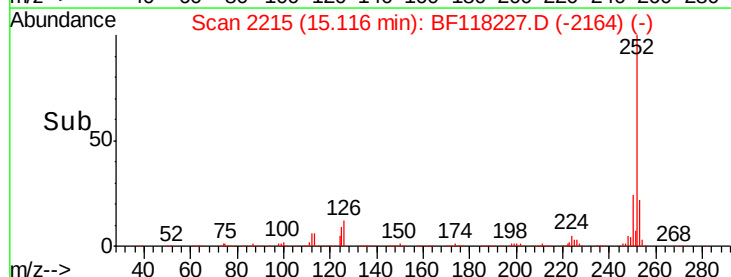
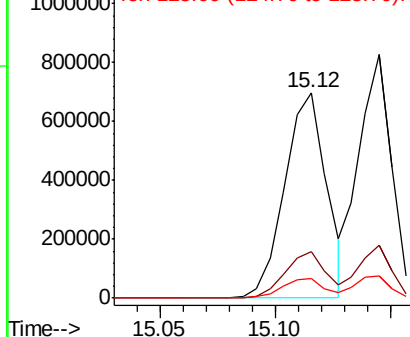
Lab File: BF118227.D

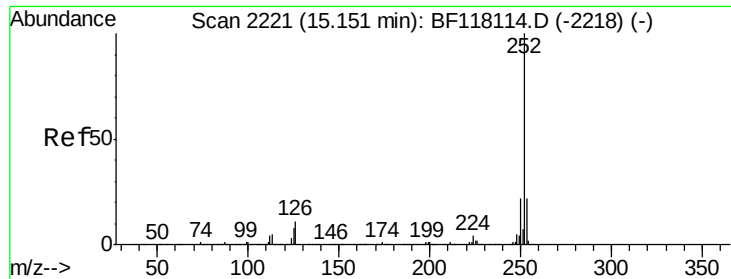
Acq: 17 Dec 2019 15:37

Tgt Ion:	252	Resp:	874179
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.2	27.4
125	9.4	8.3	12.5



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





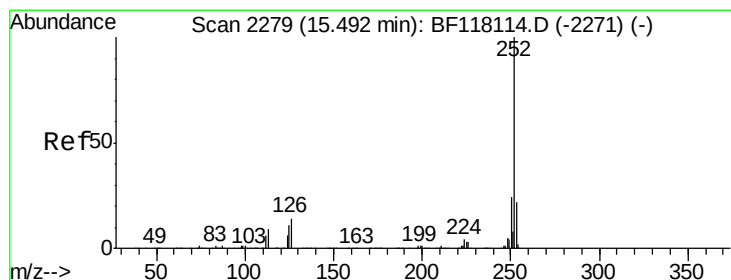
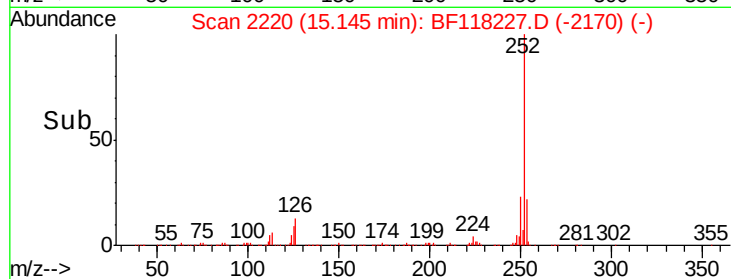
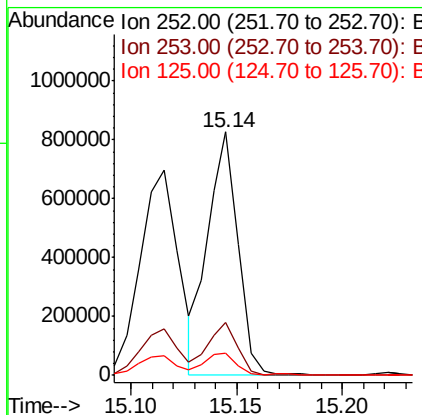
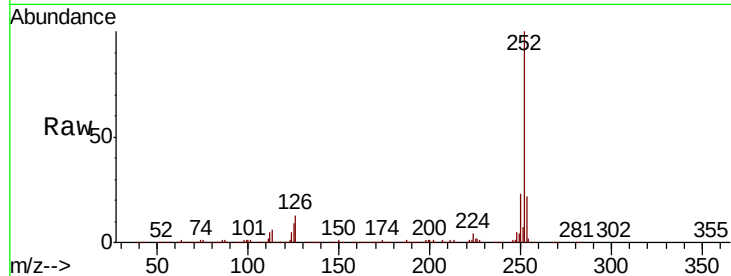
#89
Benzo(k)fluoranthene
Concen: 38.313 ng
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
252	100	818517		
253	21.6		17.6	26.4
125	9.2		6.7	10.1

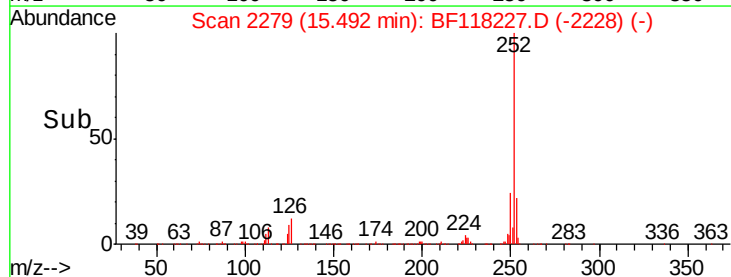
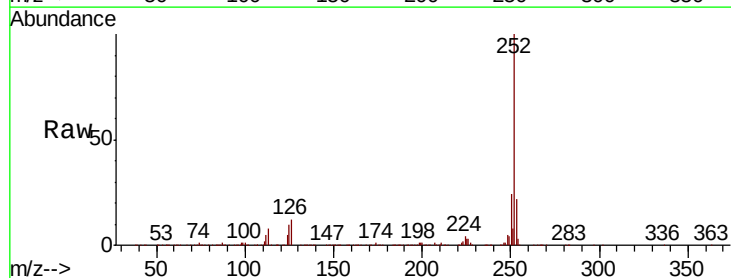
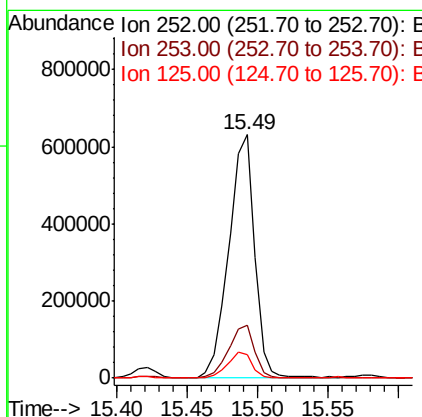
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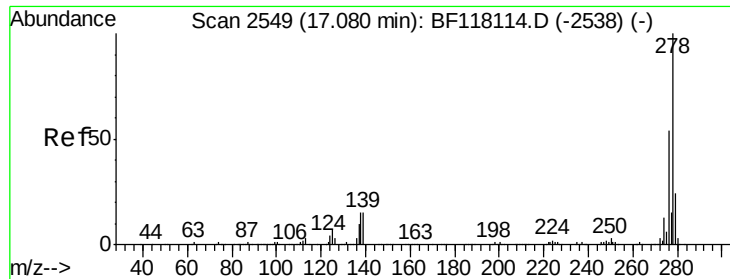
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#90
Benzo(a)pyrene
Concen: 40.648 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	798357		
253	21.6		17.5	26.3
125	9.5		9.1	13.7





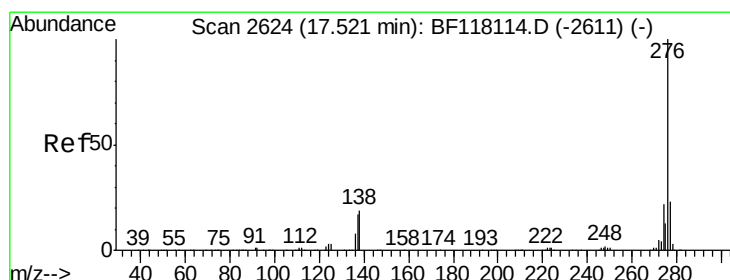
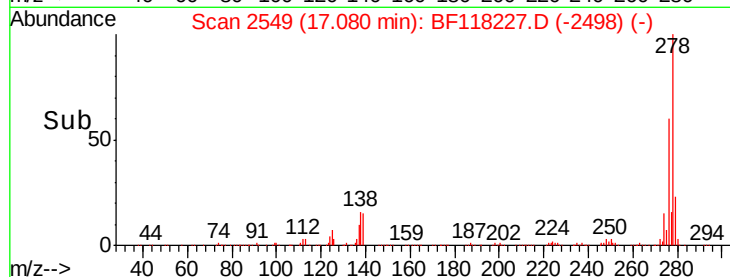
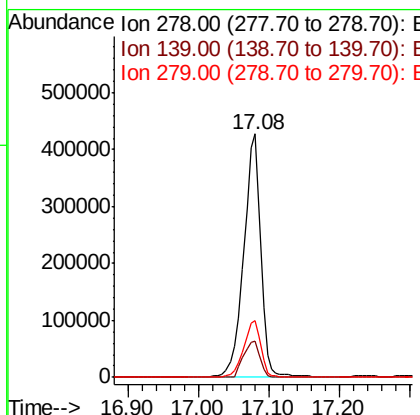
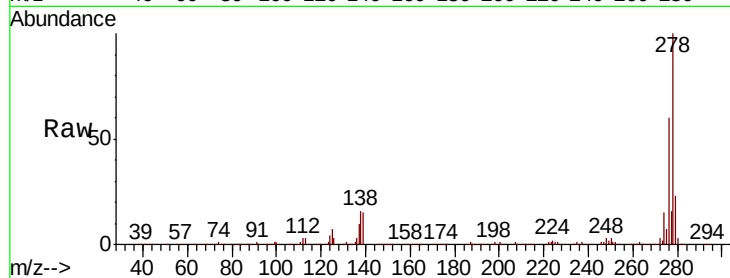
#91
Dibenzo(a,h)anthracene
Concen: 42.653 ng
RT: 17.08 min Scan# 2549
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.1	11.7	17.5
279	23.1	19.0	28.4

Manual Integrations
APPROVED

mohammad
12/18/2019 2:41:08 PM



#92
Benzo(g,h,i)perylene
Concen: 44.177 ng
RT: 17.52 min Scan# 2624
Delta R.T. 0.00 min
Lab File: BF118227.D
Acq: 17 Dec 2019 15:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.2	27.4
138	20.5	15.5	23.3

