

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
 Data File : BF121170.D
 Acq On : 31 Jul 2020 20:53
 Operator : JU/CG
 Sample : L3180-01 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072920

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Quant Time: Aug 01 01:31:00 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	132481	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	501411	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	241932	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	408568	20.00	ng	0.00
76) Chrysene-d12	13.97	240	332667	20.00	ng	0.00
86) Perylene-d12	15.42	264	386883	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	147915	18.30	ng	-0.01
7) Phenol-d6	6.43	99	182807	17.51	ng	-0.02
23) Nitrobenzene-d5	7.35	82	111264	12.84	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	42525	16.06	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	224868	13.88	ng	-0.01
79) Terphenyl-d14	12.90	244	187757	12.27	ng	0.00
Target Compounds						
31) Naphthalene	8.10	128	239049	9.294	ng	98
37) 2-Methylnaphthalene	8.79	142	187074	11.202	ng	98
38) 1-Methylnaphthalene	8.89	142	151634	9.587	ng	99
49) Acenaphthylene	9.69	152	160105	6.850	ng	98
50) Dimethylphthalate	9.55	163	40344	2.311	ng	99
52) Acenaphthene	9.87	154	95681	6.438	ng	100
55) Dibenzofuran	10.04	168	213747	9.946	ng	96
58) Fluorene	10.38	166	319152	19.912	ng	98
71) Phenanthrene	11.35	178	1242253	59.119	ng	100
72) Anthracene	11.40	178	411460	19.501	ng	99
73) Carbazole	11.55	167	134163	6.407	ng	98
75) Fluoranthene	12.54	202	1202516	51.630	ng	97
78) Pyrene	12.77	202	1057600	44.967	ng	99
81) Benzo(a)anthracene	13.96	228	618841	30.720	ng	94
83) Chrysene	13.99	228	490435	23.167	ng	96
87) Indeno(1,2,3-cd)pyrene	16.86	276	282039	10.482	ng	97
88) Benzo(b)fluoranthene	15.00	252	625791m	26.760	ng	
89) Benzo(k)fluoranthene	15.03	252	249724m	11.709	ng	
90) Benzo(a)pyrene	15.36	252	487214	22.835	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	81259m	3.697	ng	
92) Benzo(g,h,i)perylene	17.29	276	239781	11.065	ng	99

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

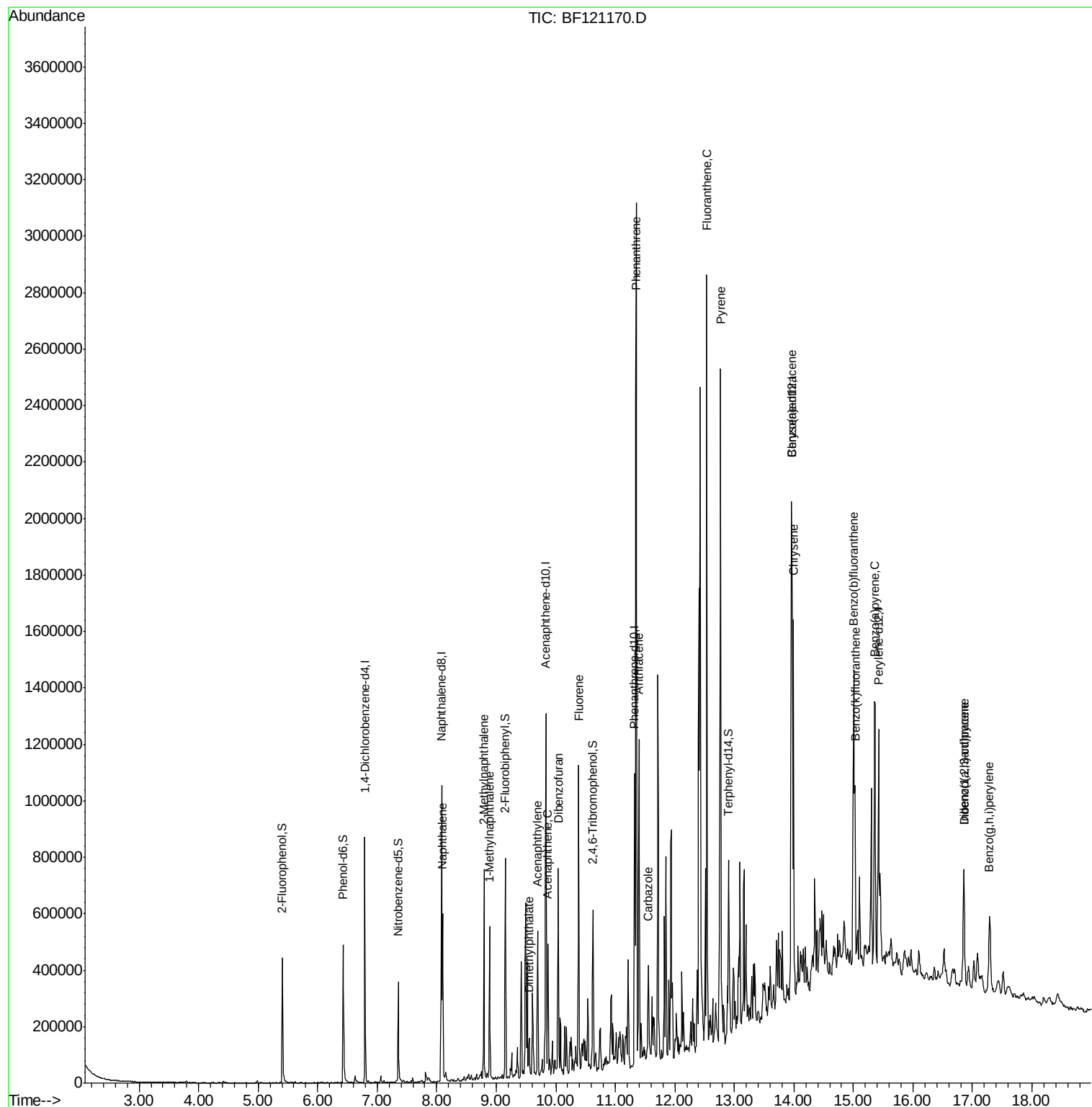
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
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Misc :
ALS Vial : 24 Sample Multiplier: 1

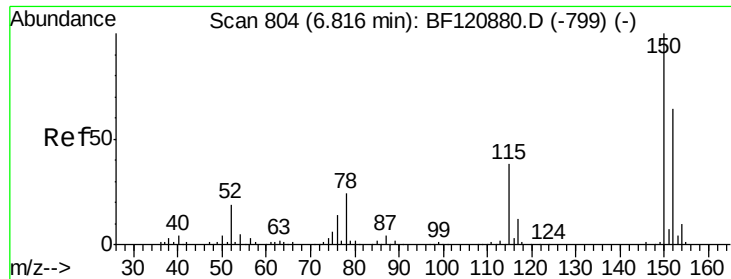
Instrument :
BNA_F
ClientSampleId :
HD-02-072920

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Quant Time: Aug 01 01:31:00 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





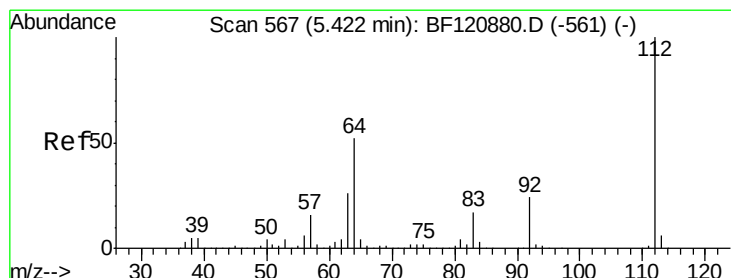
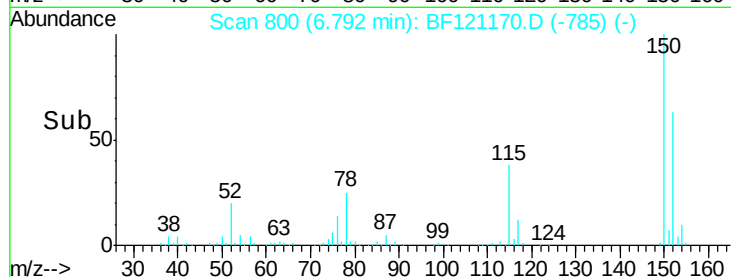
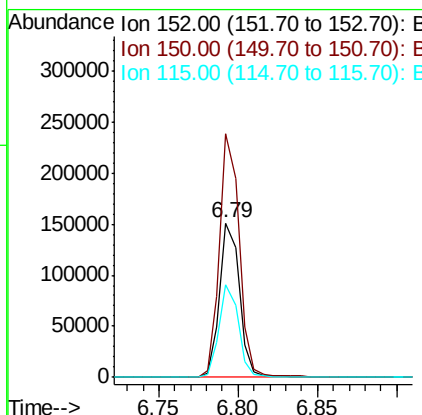
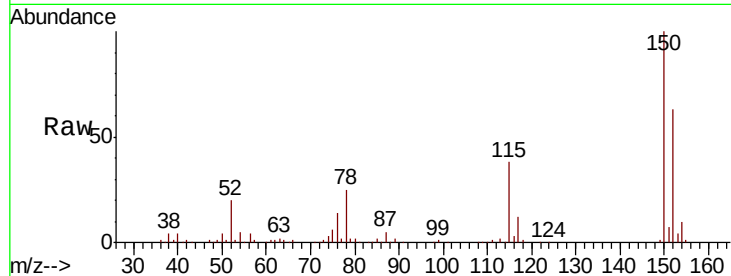
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121170.D
 Acq: 31 Jul 2020 20:53

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072920

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.6	188.4
115	60.2	46.2	69.2

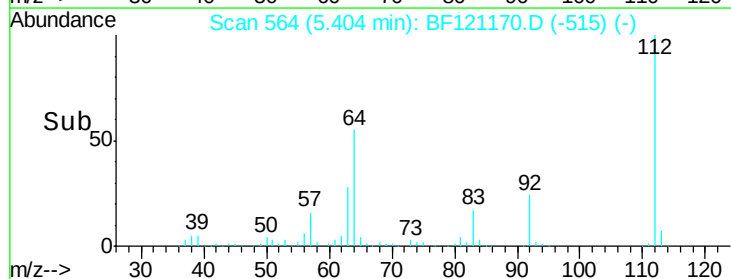
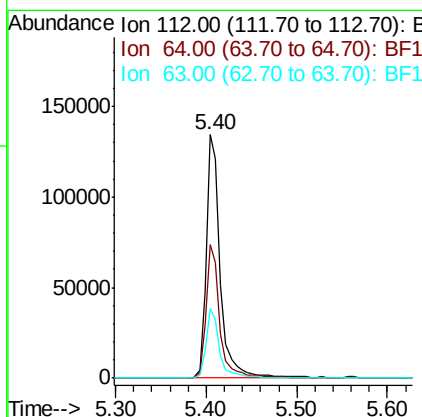
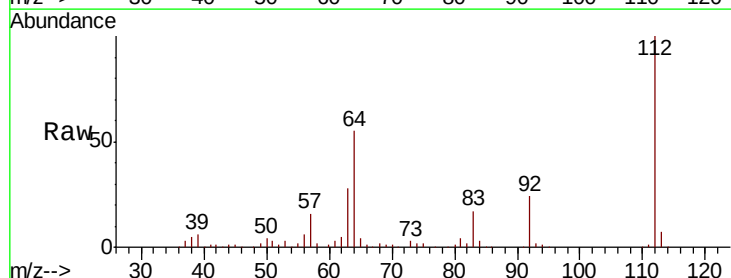
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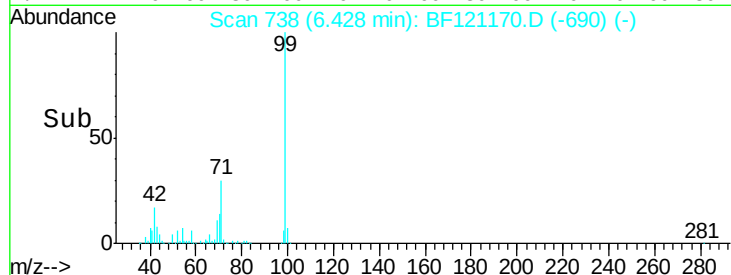
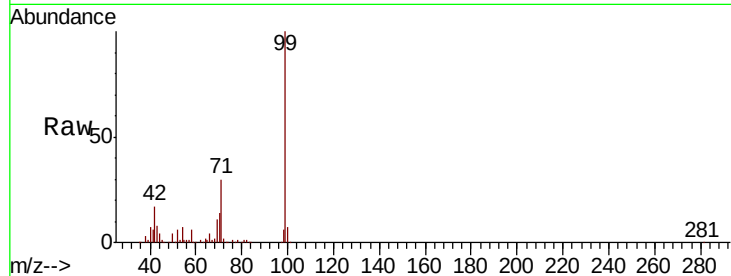
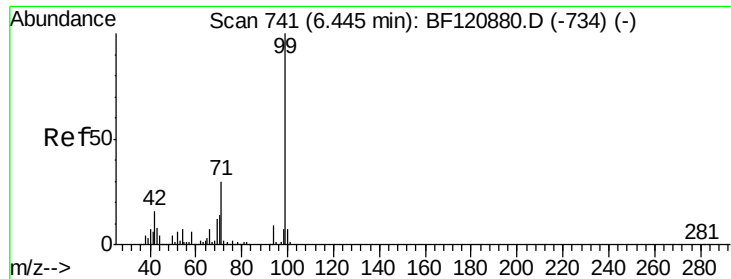
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#5
 2-Fluorophenol
 Concen: 18.303 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: BF121170.D
 Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.8	43.9	65.9
63	28.5	22.7	34.1





#7

Phenol-d6

Concen: 17.512 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.02 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		182807		
42	17.0	13.5	20.3		
71	30.0	25.0	37.4		

Instrument :

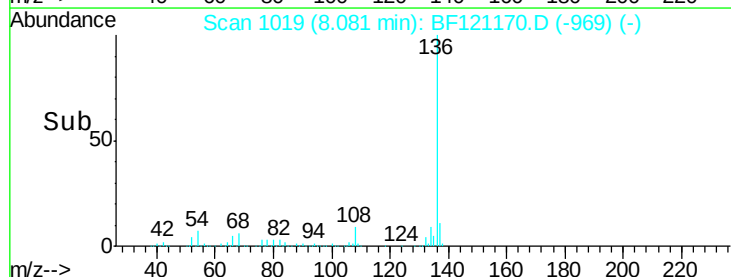
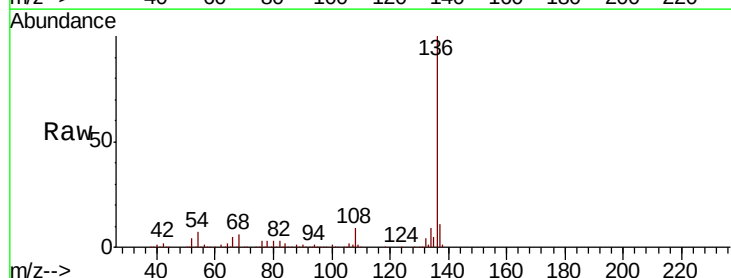
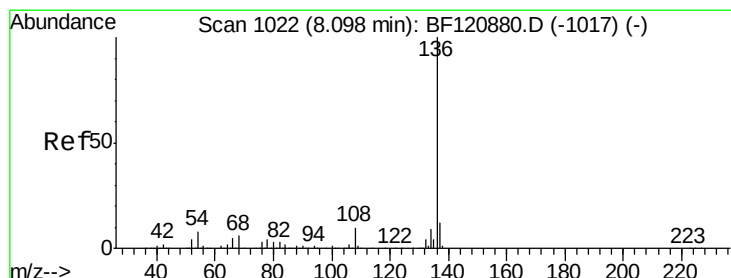
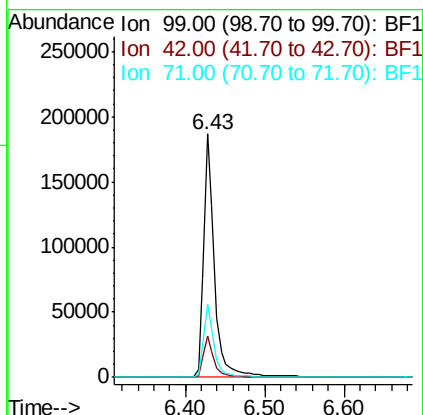
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

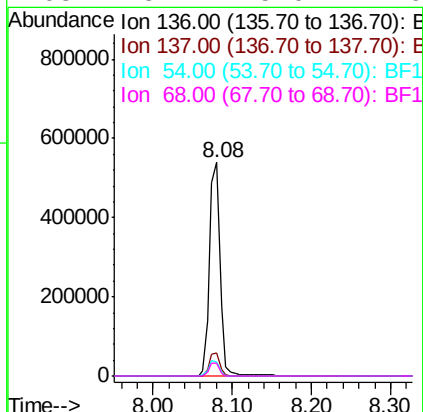
RT: 8.08 min Scan# 1019

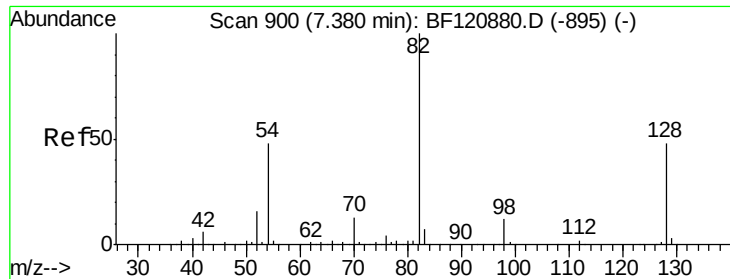
Delta R.T. -0.01 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		501411		
137	10.8	9.0	13.4		
54	6.8	6.1	9.1		
68	5.7	5.0	7.6		





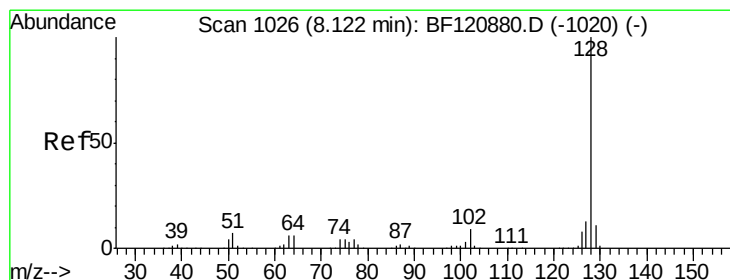
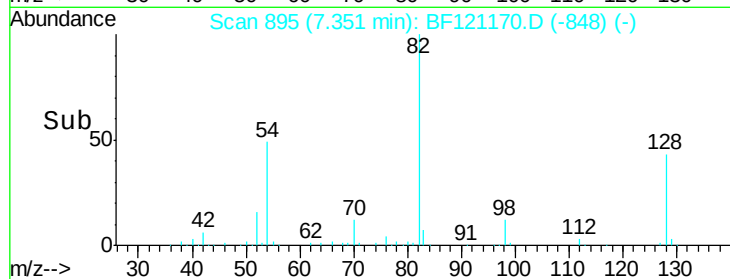
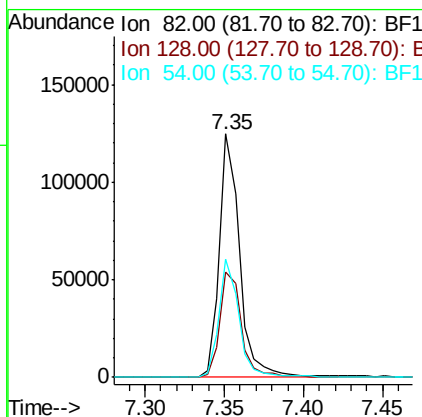
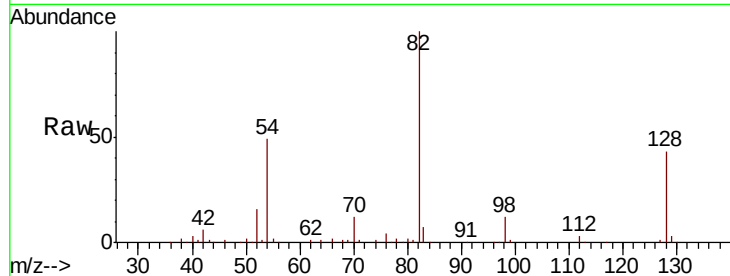
#23
 Nitrobenzene-d5
 Concen: 12.840 ng
 RT: 7.35 min Scan# 895
 Delta R.T. -0.02 min
 Lab File: BF121170.D
 Acq: 31 Jul 2020 20:53

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072920

Tot Ion	82	Resp	111264
Ion Ratio	Lower	Upper	
82	100		
128	43.4	39.2	58.8
54	48.7	37.8	56.8

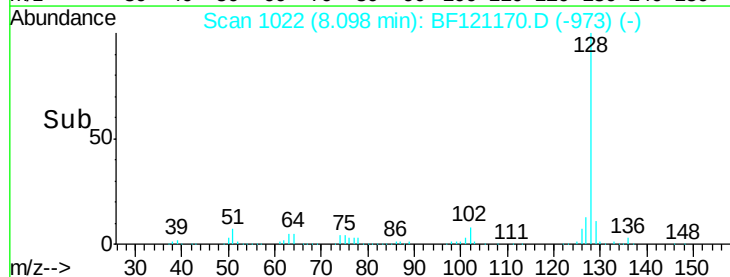
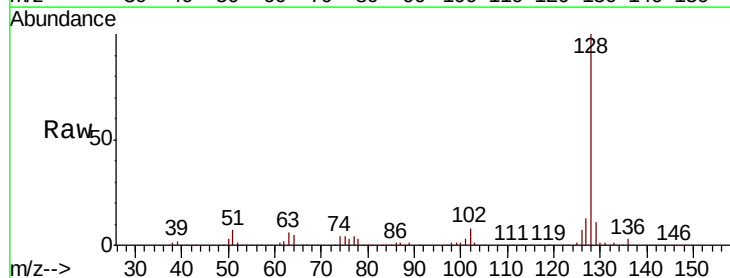
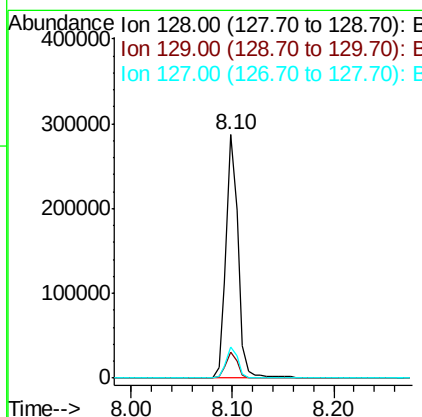
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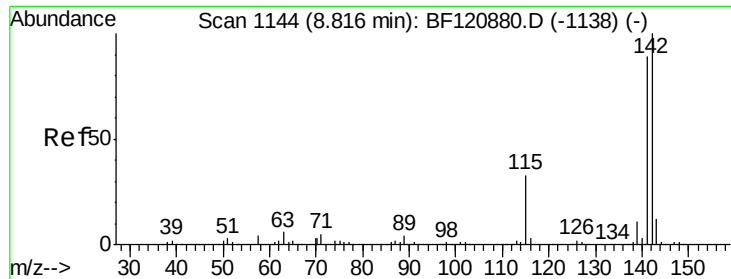
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#31
 Naphthalene
 Concen: 9.294 ng
 RT: 8.10 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BF121170.D
 Acq: 31 Jul 2020 20:53

Tgt Ion	128	Resp	239049
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.3	13.9
127	12.5	10.8	16.2





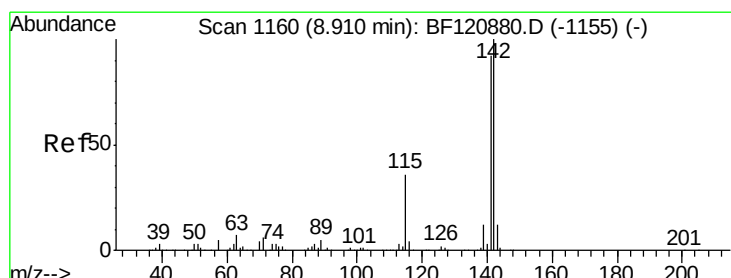
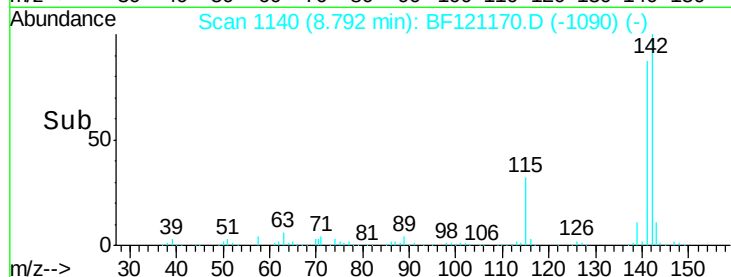
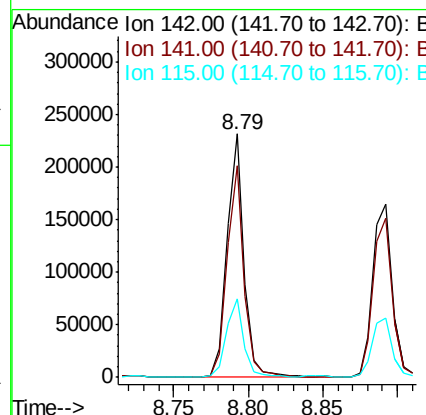
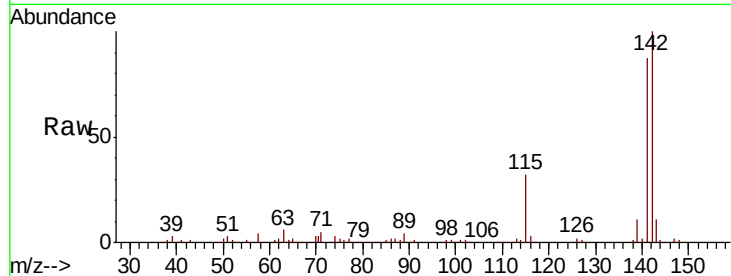
#37
2-Methylnaphthalene
Concen: 11.202 ng
RT: 8.79 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.6	105.8
115	32.2	27.1	40.7

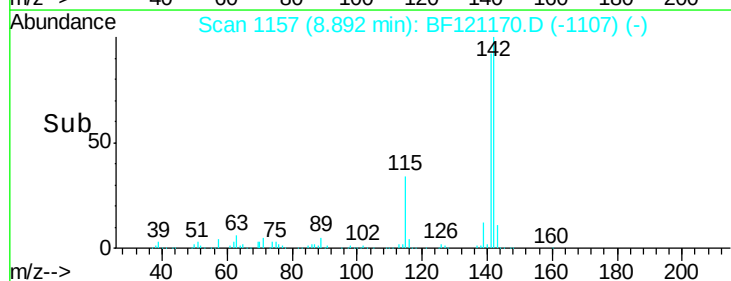
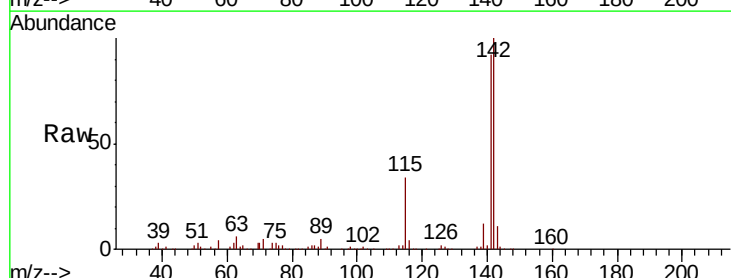
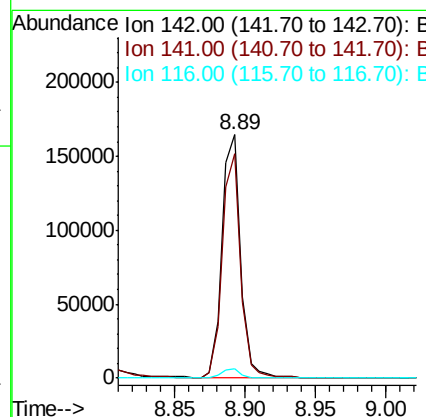
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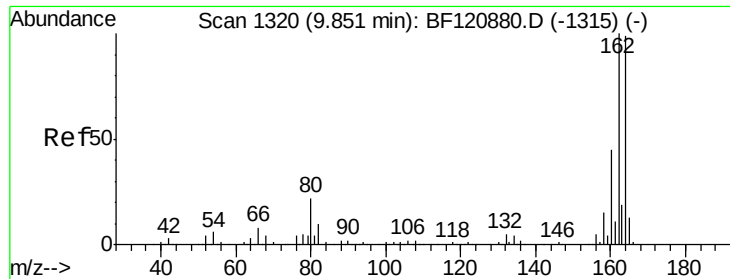
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#38
1-Methylnaphthalene
Concen: 9.587 ng
RT: 8.89 min Scan# 1157
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.0	109.6
116	3.7	3.0	4.6





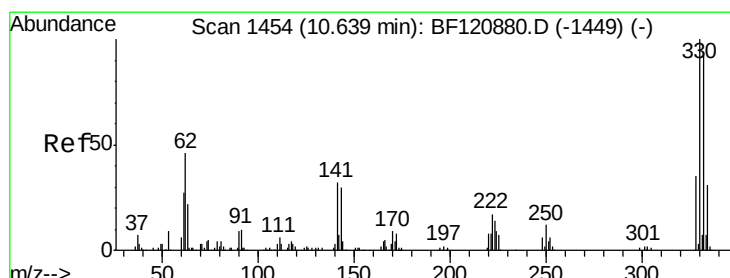
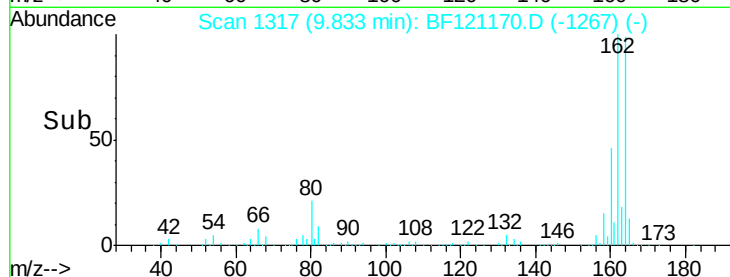
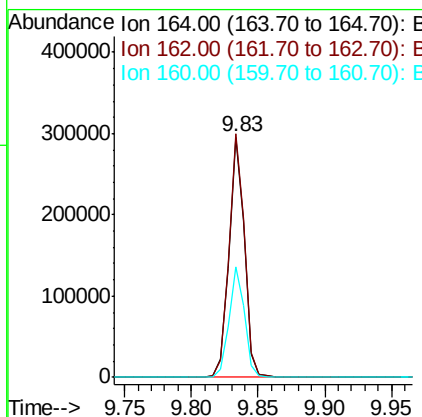
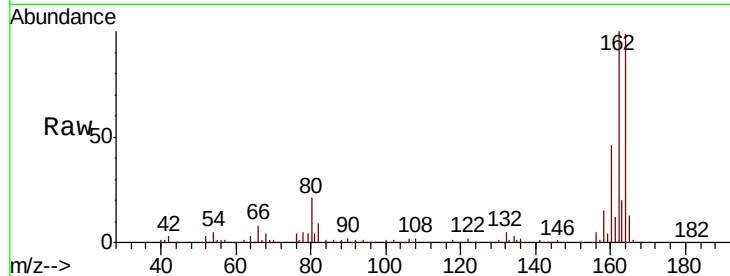
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.3	82.2	123.2	
160	46.1	37.2	55.8	

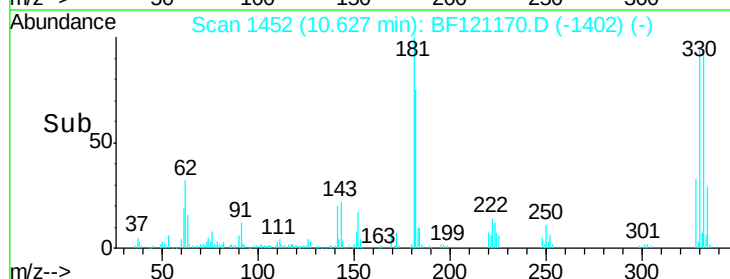
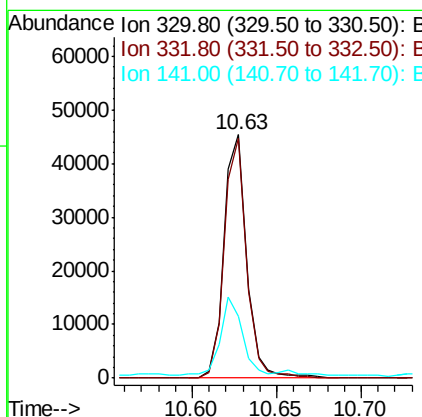
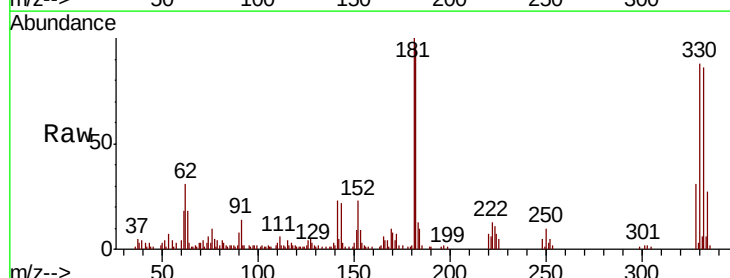
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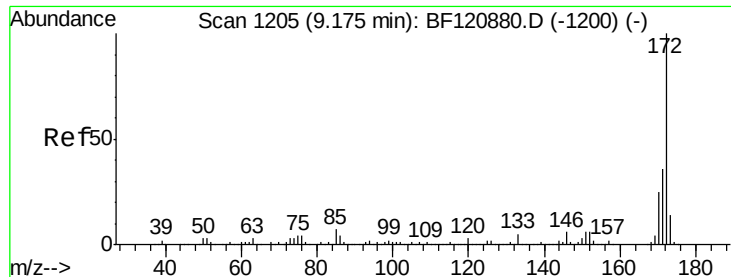
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#42
2,4,6-Tribromophenol
Concen: 16.058 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.3	76.1	114.1	
141	31.0	24.1	36.1	





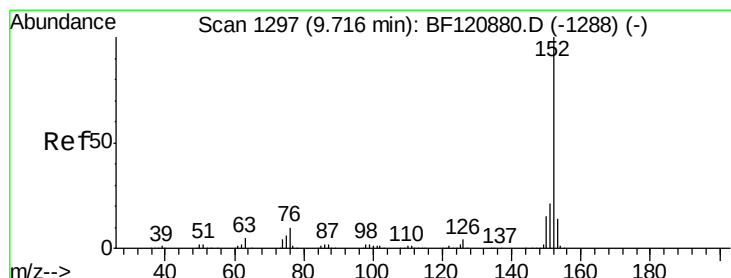
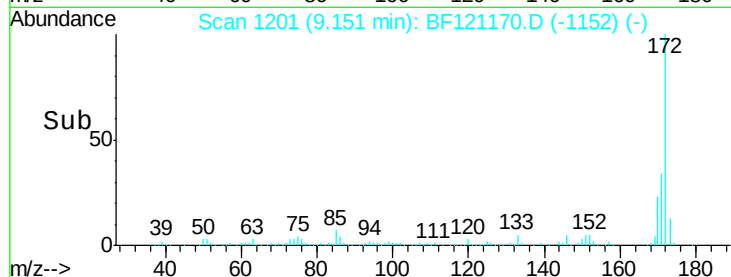
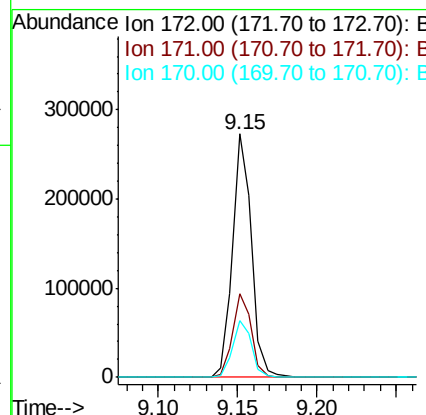
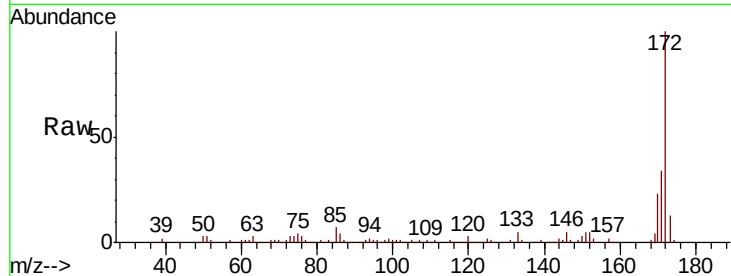
#45
2-Fluorobiphenyl
Concen: 13.877 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Resp	Lower	Upper
172	100	224868		
171	34.4	29.0	43.4	
170	23.1	19.6	29.4	

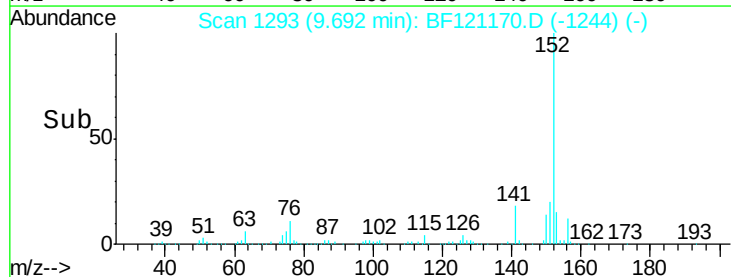
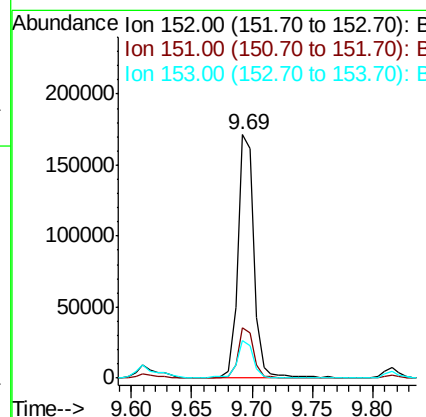
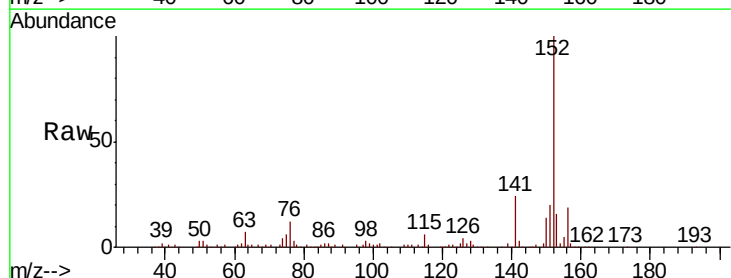
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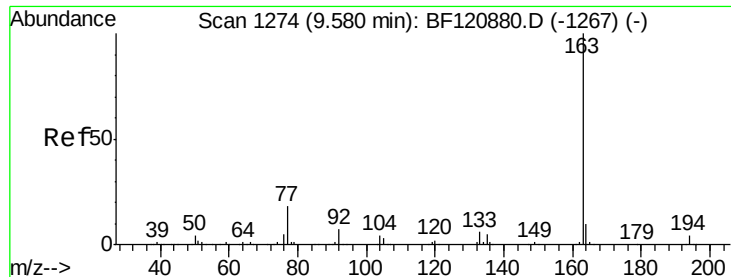
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#49
Acenaphthylene
Concen: 6.850 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	160105		
151	20.5	16.6	25.0	
153	15.6	11.0	16.4	





#50

Dimethylphthalate

Concen: 2.311 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

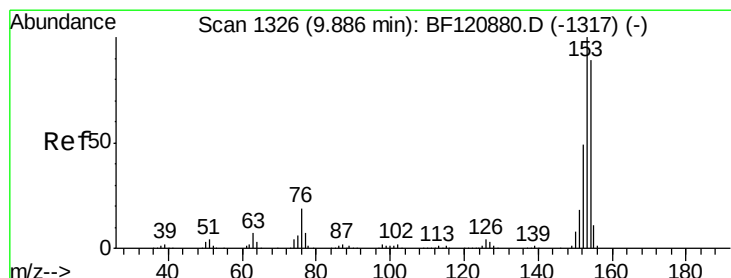
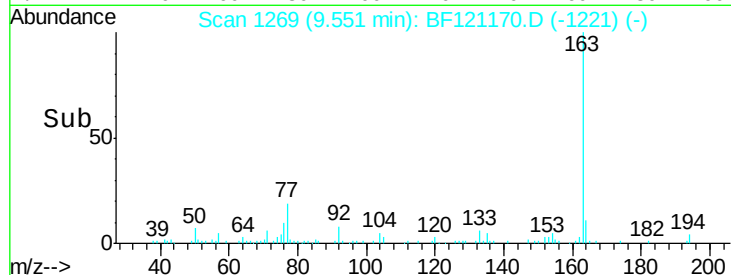
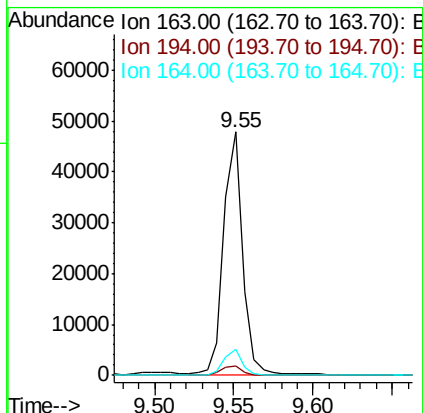
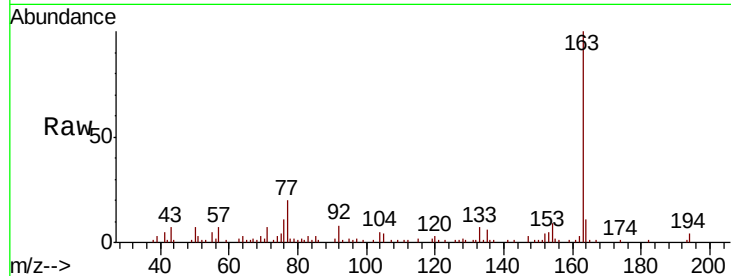
ClientSampleId :

HD-02-072920

Tot Ion:163	Resp:	40344
Ion Ratio	Lower	Upper
163	100	
194	3.6	3.0 4.4
164	10.9	8.4 12.6

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#52

Acenaphthene

Concen: 6.438 ng

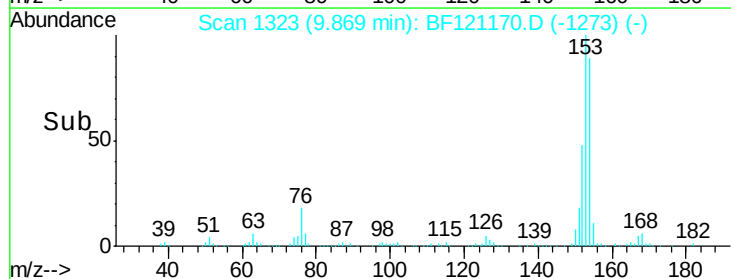
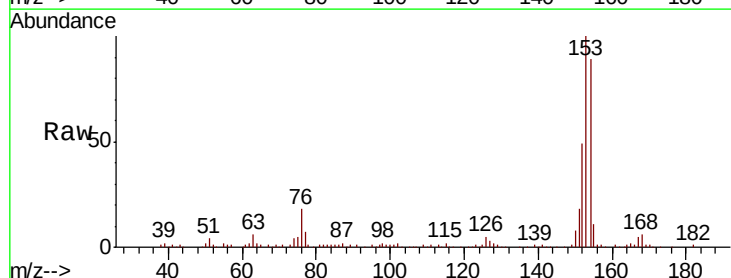
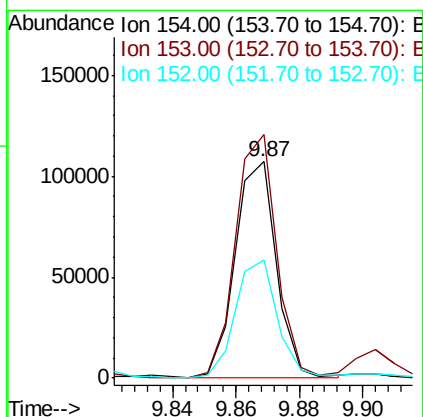
RT: 9.87 min Scan# 1323

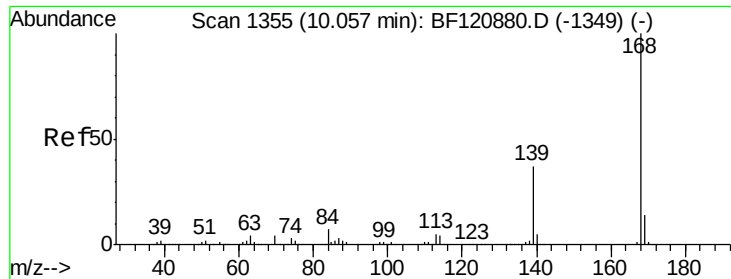
Delta R.T. -0.01 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Tgt Ion:154	Resp:	95681
Ion Ratio	Lower	Upper
154	100	
153	112.4	89.6 134.4
152	54.7	43.8 65.6





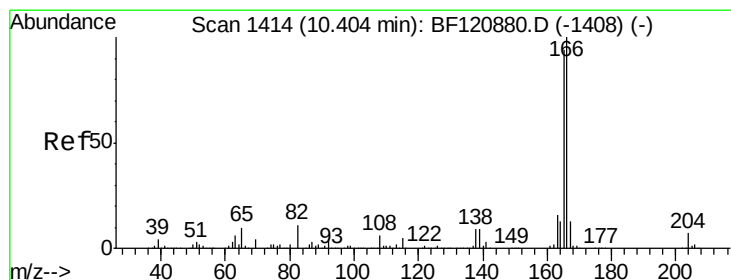
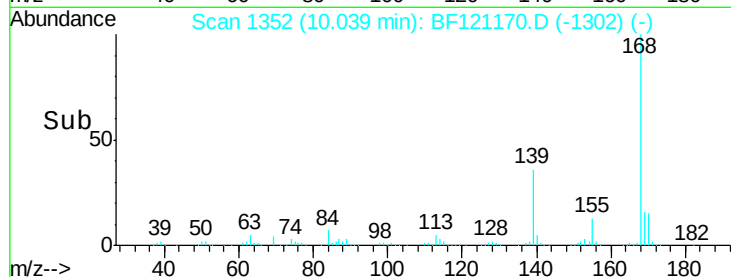
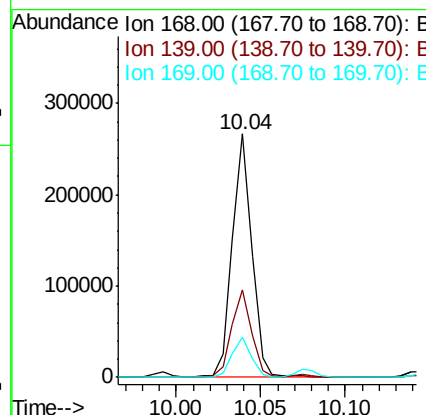
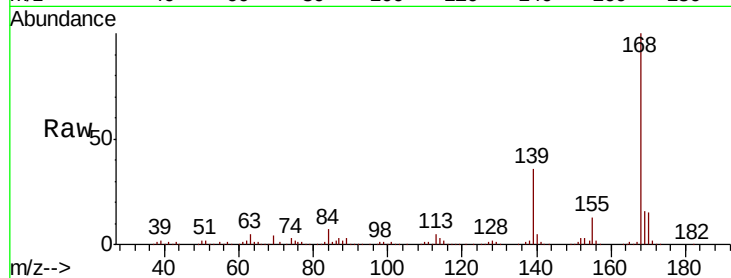
#55
Dibenzenofuran
Concen: 9.946 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.7	30.1	45.1
169	16.3	11.3	16.9

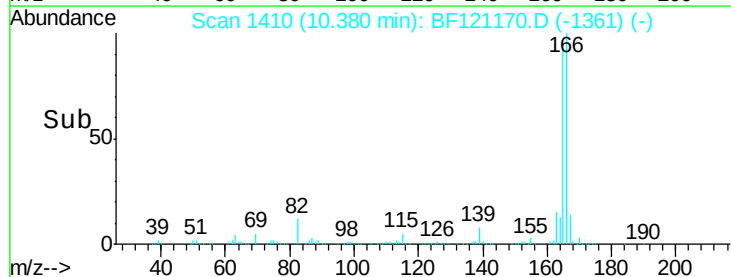
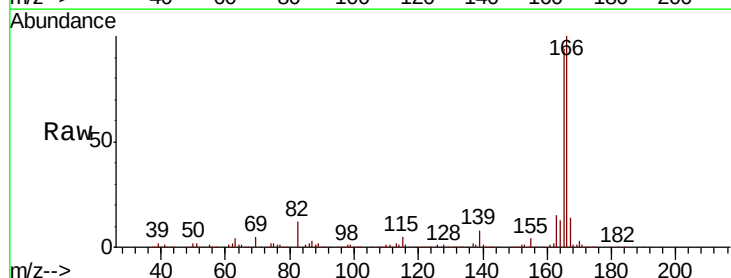
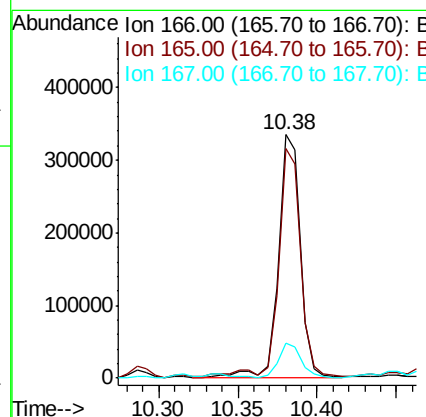
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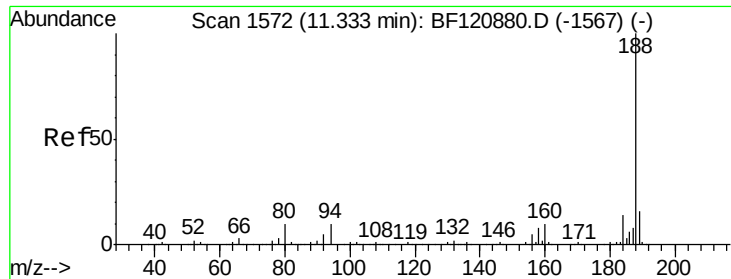
mohammad
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#58
Fluorene
Concen: 19.912 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.1	76.4	114.6
167	14.5	10.7	16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

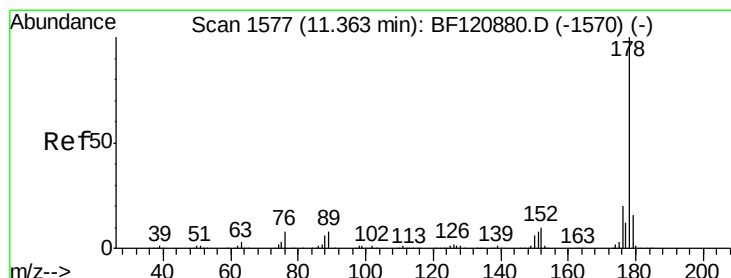
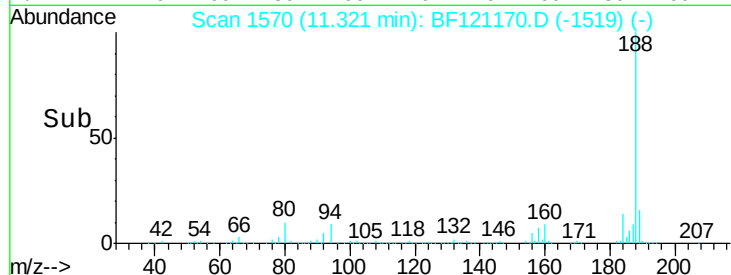
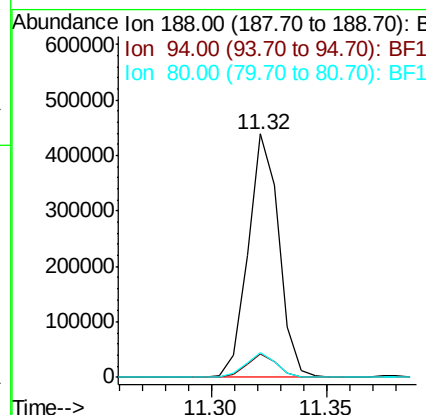
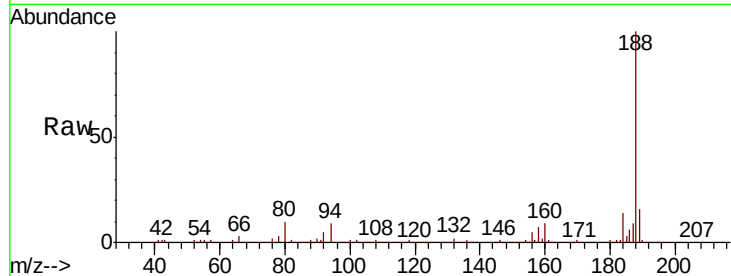
ClientSampleId :

HD-02-072920

Tot Ion	188	Resp	408568
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.0	12.0
80	9.9	8.3	12.5

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#71

Phenanthrene

Concen: 59.119 ng

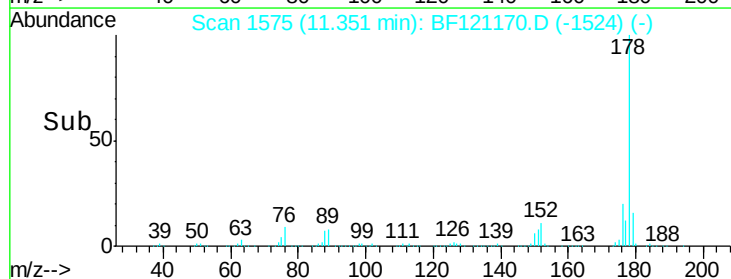
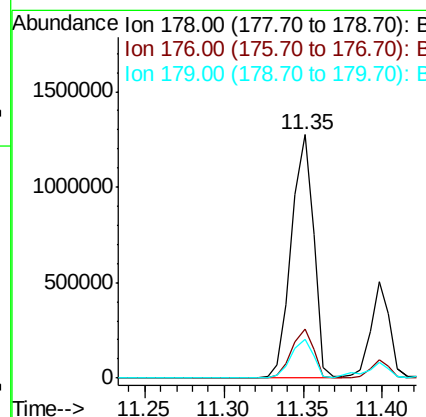
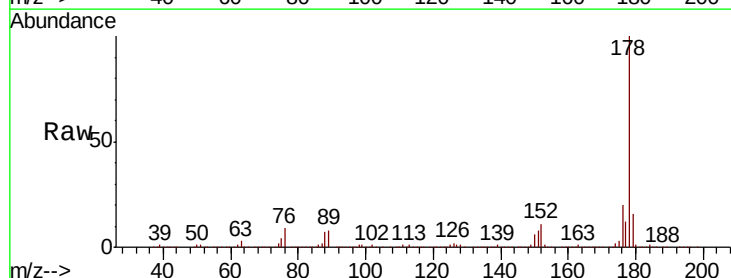
RT: 11.35 min Scan# 1575

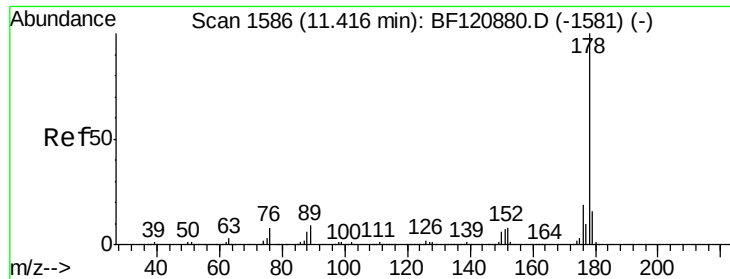
Delta R.T. -0.00 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Tgt Ion	178	Resp	1242253
Ion Ratio	Lower	Upper	
178	100		
176	20.4	16.2	24.2
179	15.9	12.6	19.0





#72

Anthracene

Concen: 19.501 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

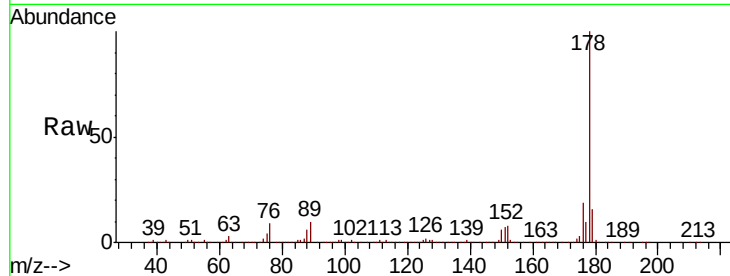
ClientSampleId :

HD-02-072920

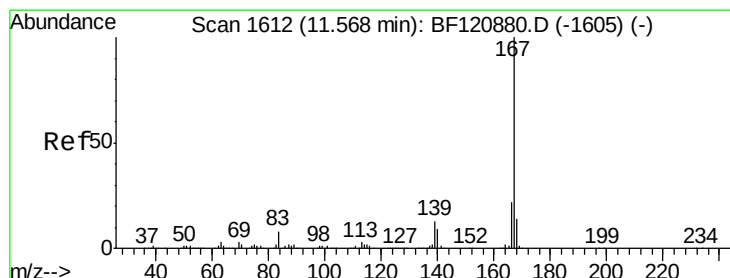
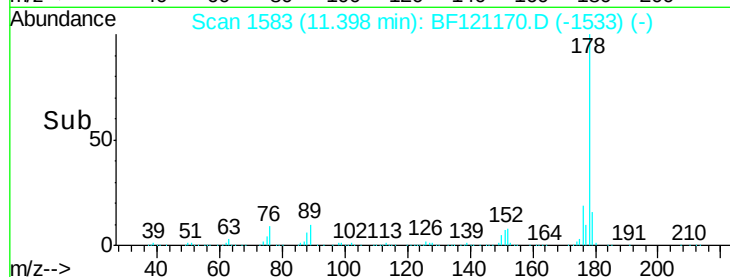
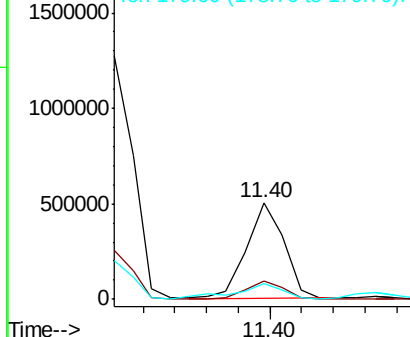
Tot Ion:	178	Resp:	411460
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.8	23.8
179	15.8	12.6	19.0

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 6.407 ng

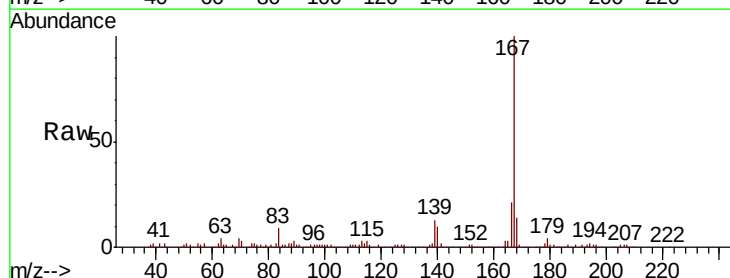
RT: 11.55 min Scan# 1609

Delta R.T. -0.01 min

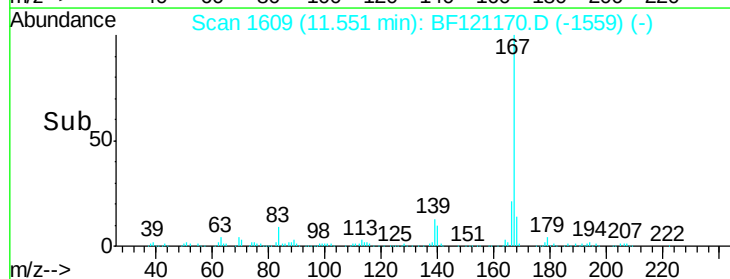
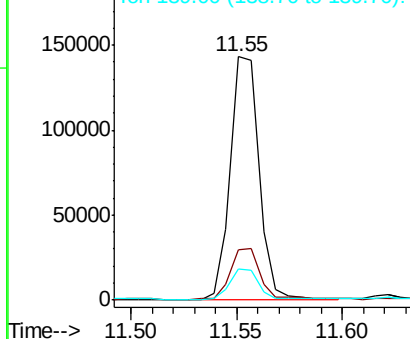
Lab File: BF121170.D

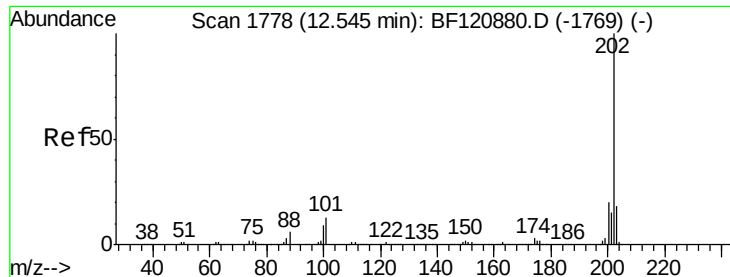
Acq: 31 Jul 2020 20:53

Tgt Ion:	167	Resp:	134163
Ion Ratio	Lower	Upper	
167	100		
166	20.8	17.5	26.3
139	12.9	10.5	15.7



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 51.630 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.00 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

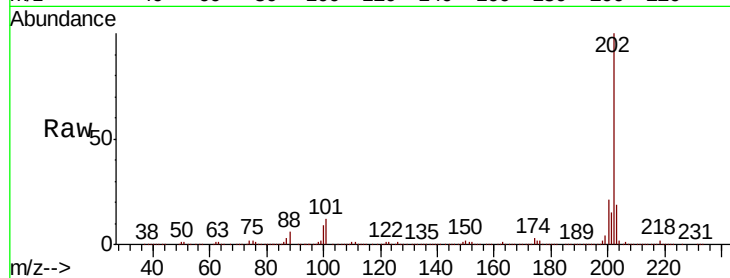
ClientSampleId :

HD-02-072920

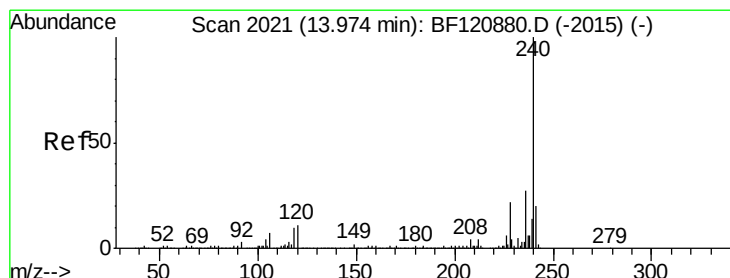
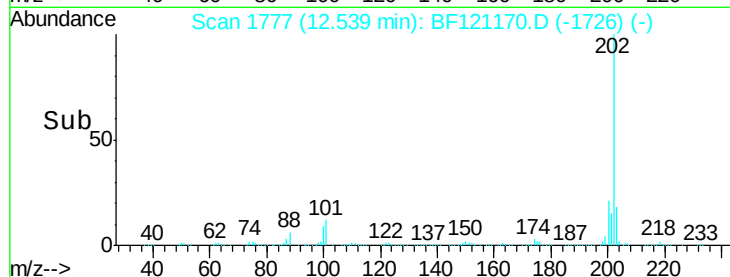
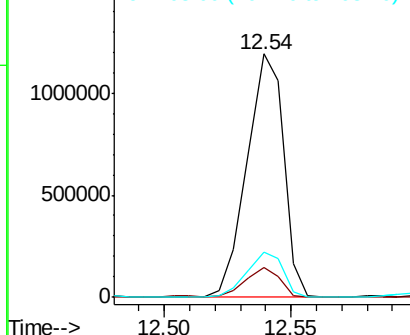
Tot Ion:	202	Resp:	1202516
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	30.5
203	18.5	0.0	37.7

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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

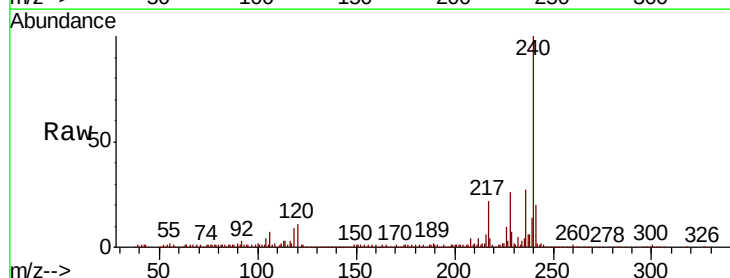
RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

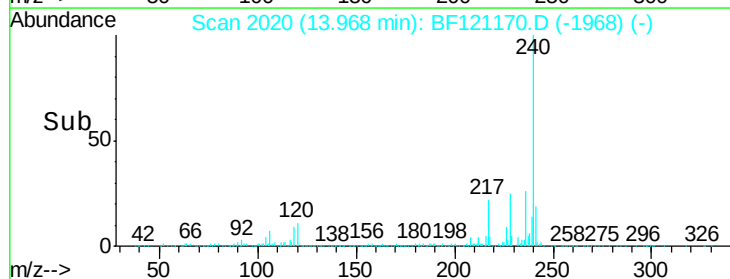
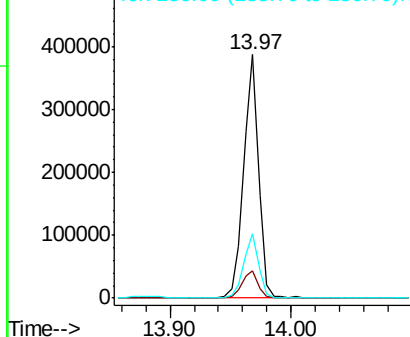
Lab File: BF121170.D

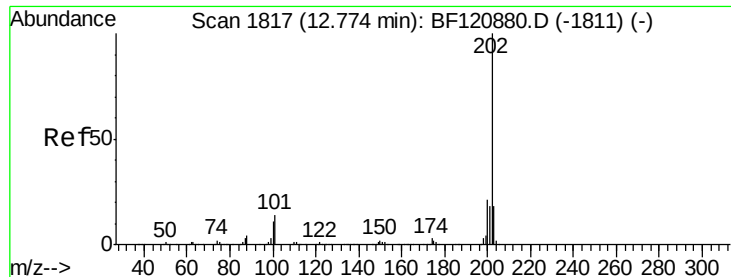
Acq: 31 Jul 2020 20:53

Tgt Ion:	240	Resp:	332667
Ion Ratio	Lower	Upper	
240	100		
120	11.0	9.3	13.9
236	26.5	21.1	31.7



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





#78

Pvrene

Concen: 44.967 ng

RT: 12.77 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

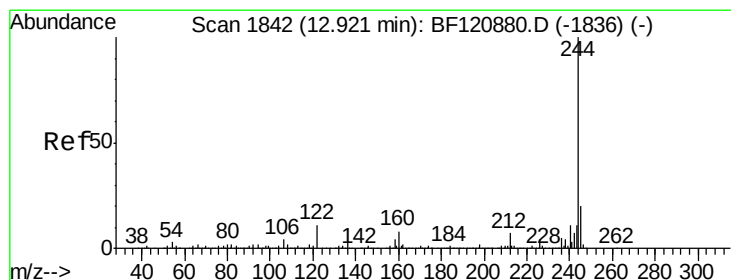
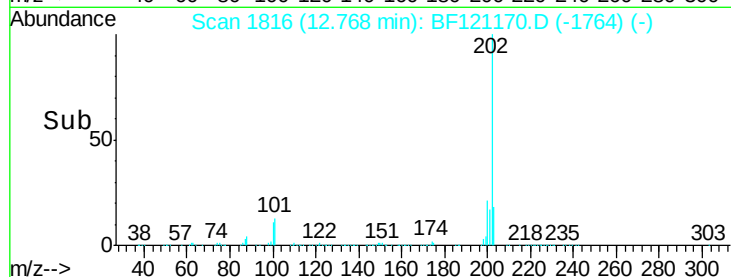
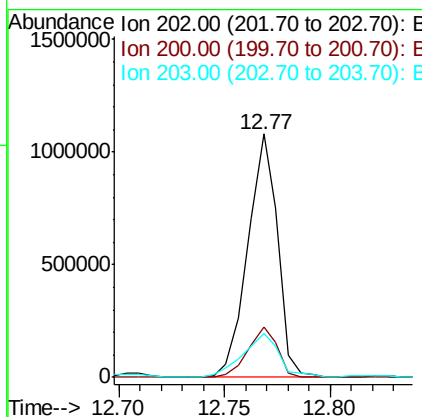
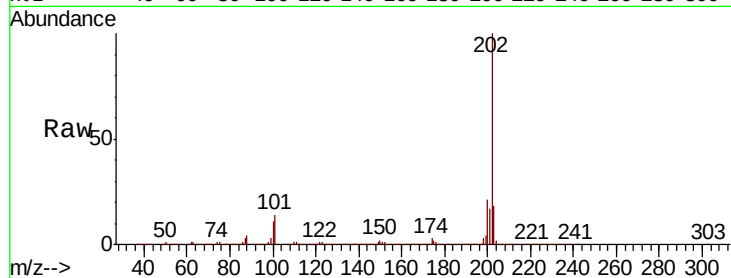
ClientSampleId :

HD-02-072920

Tot Ion:	202	Resp:	1057600
Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.6
203	18.0	14.6	21.8

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#79

Terphenyl-d14

Concen: 12.269 ng

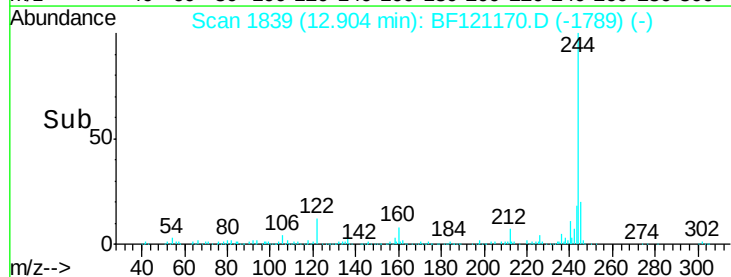
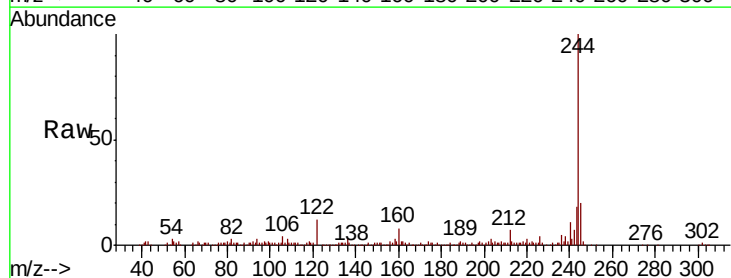
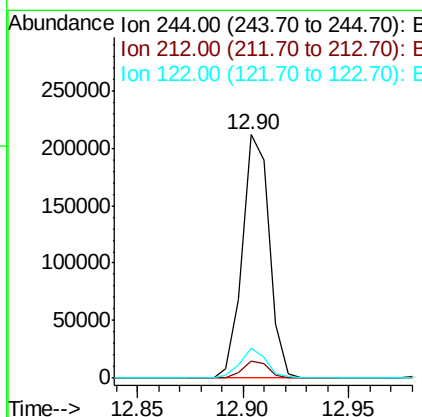
RT: 12.90 min Scan# 1839

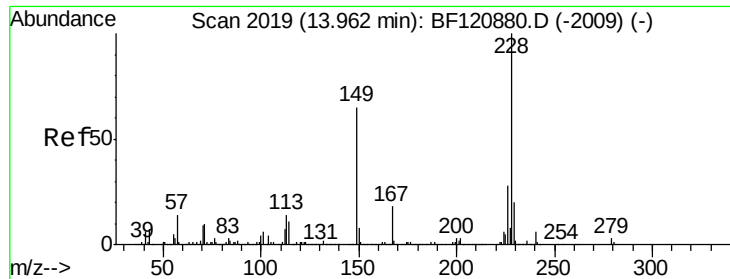
Delta R.T. -0.01 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Tgt Ion:	244	Resp:	187757
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	12.1	8.3	12.5





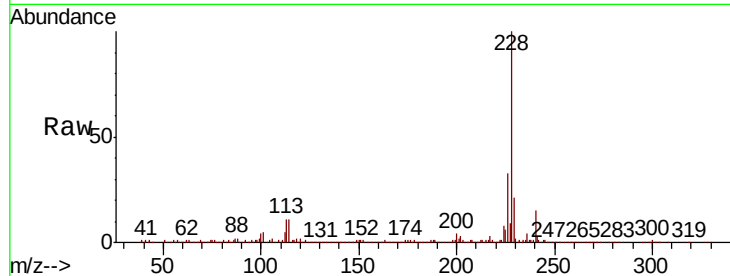
#81
Benzo(a)anthracene
Concen: 30.720 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

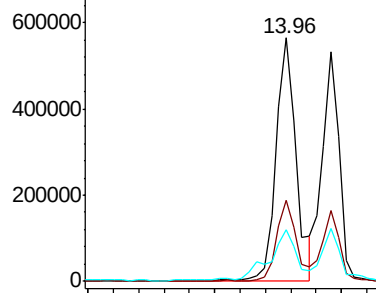
Tot Ion	Ratio	Lower	Upper
228	100		
226	33.1	22.6	34.0
229	21.2	16.1	24.1

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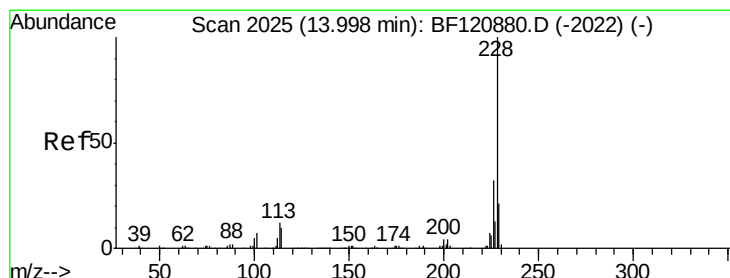
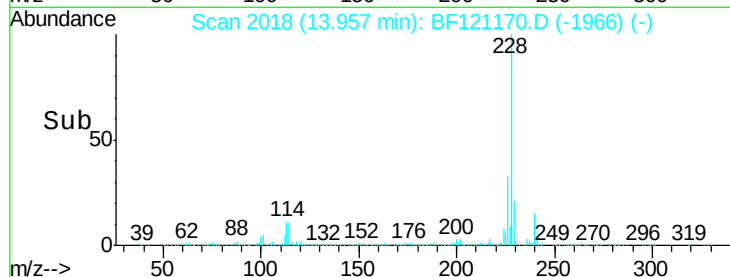
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



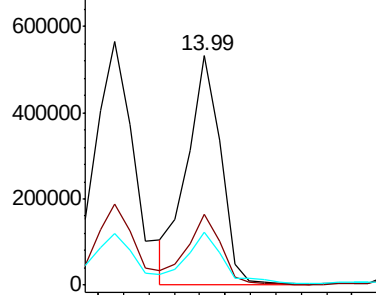
Time--> 13.80 13.90 14.00



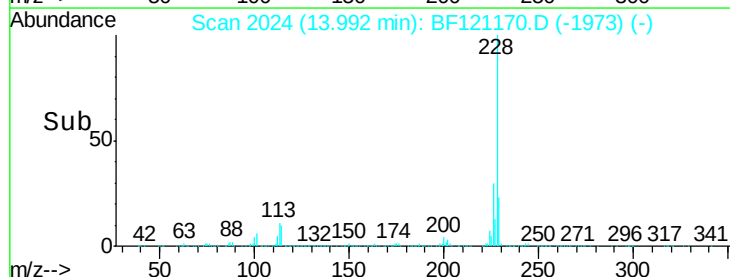
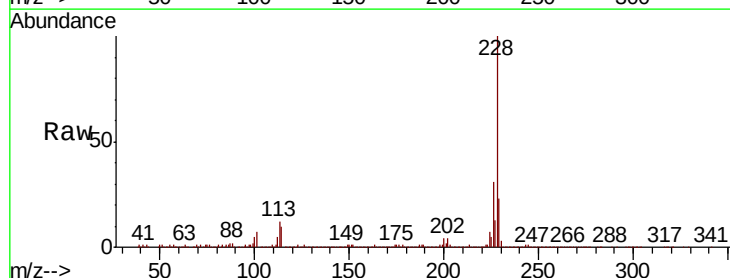
#83
Chrysene
Concen: 23.167 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

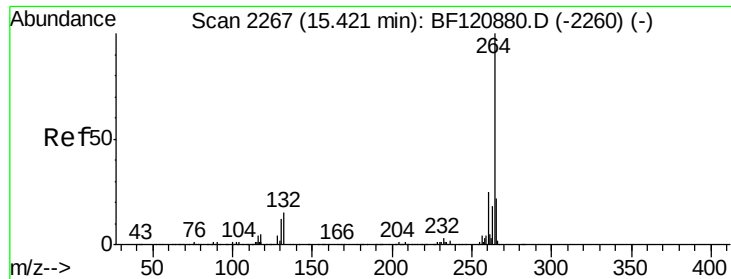
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.4	38.0
229	23.3	16.2	24.4

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



Time--> 13.95 14.00 14.05





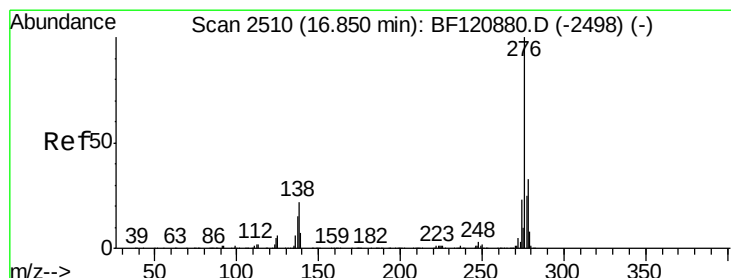
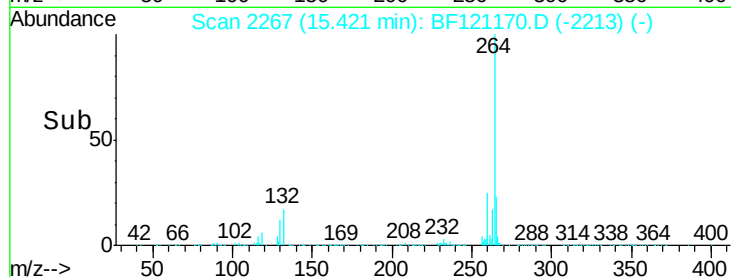
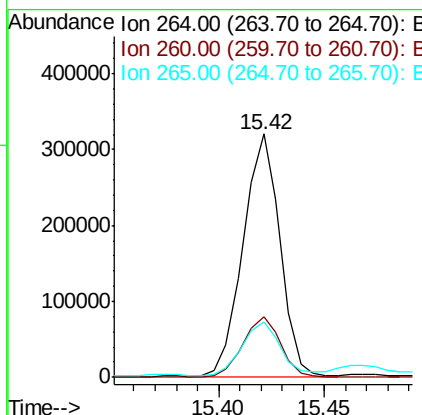
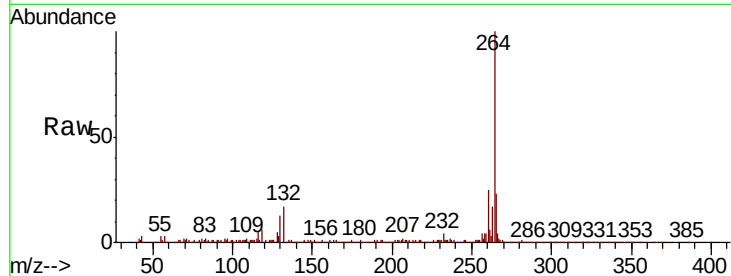
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.9	29.9
265	23.0	17.8	26.8

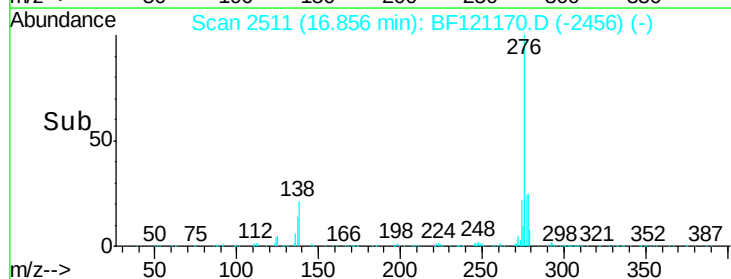
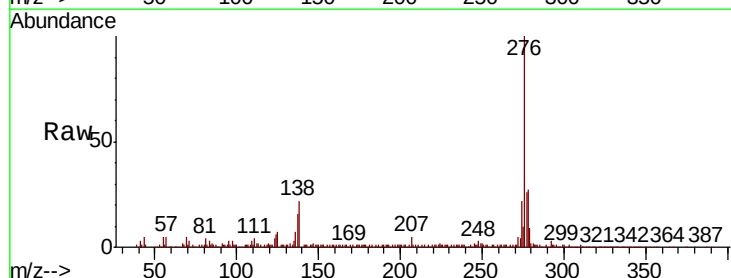
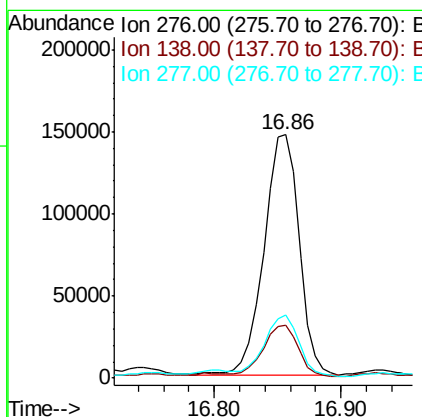
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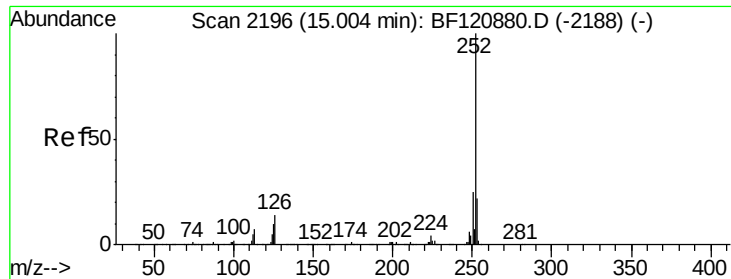
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#87
Indeno(1,2,3-cd)pyrene
Concen: 10.482 ng
RT: 16.86 min Scan# 2511
Delta R.T. 0.02 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.1	19.3	28.9
277	25.0	20.1	30.1





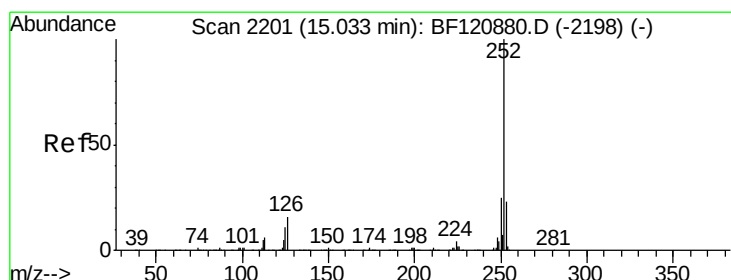
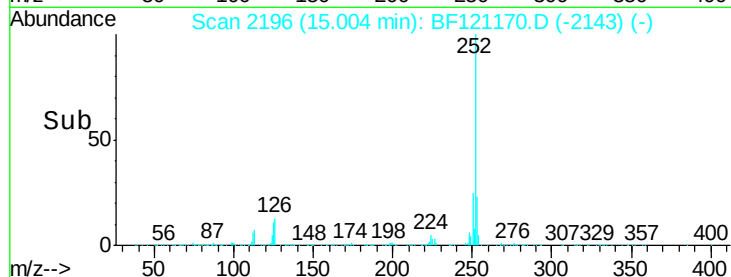
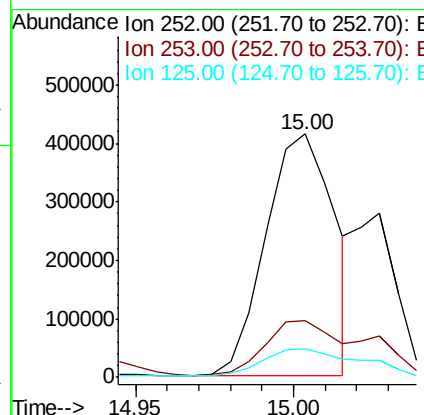
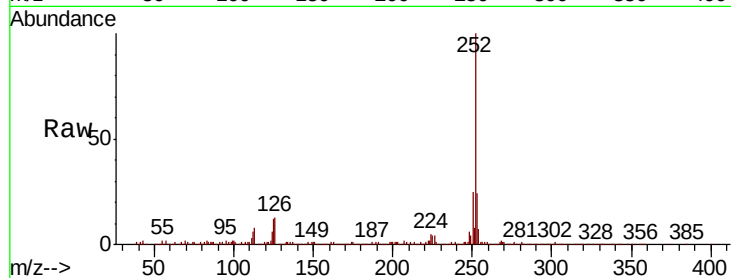
#88
Benzo(b)fluoranthene
Concen: 26.760 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampled :
HD-02-072920

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	11.6	8.1	12.1

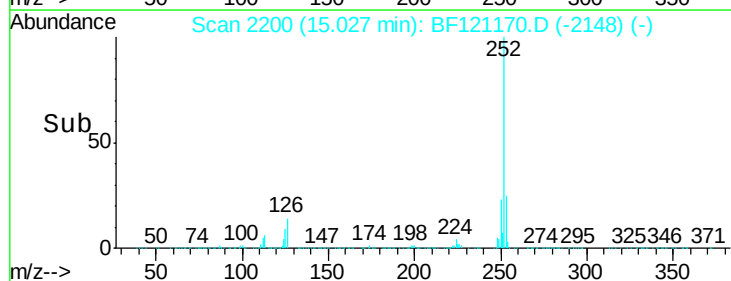
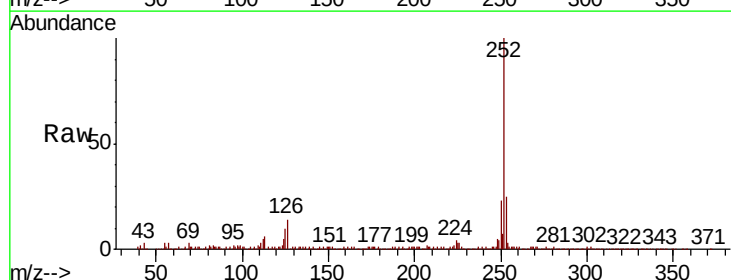
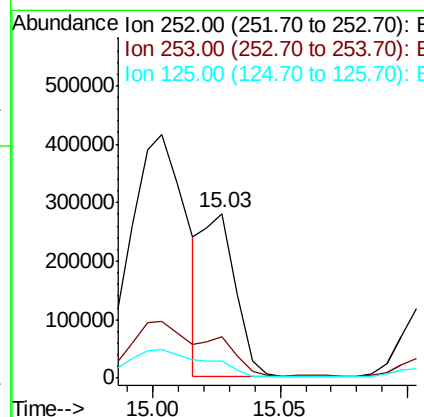
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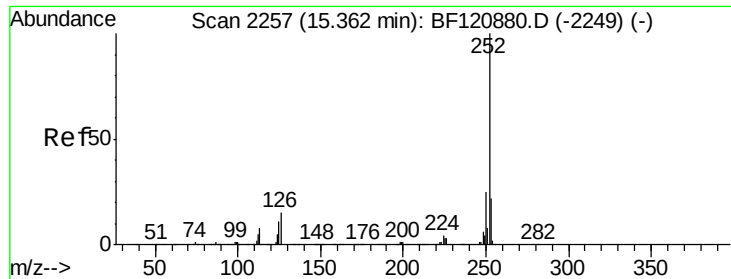
mohammad
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#89
Benzo(k)fluoranthene
Concen: 11.709 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.1	27.1
125	10.2	8.0	12.0





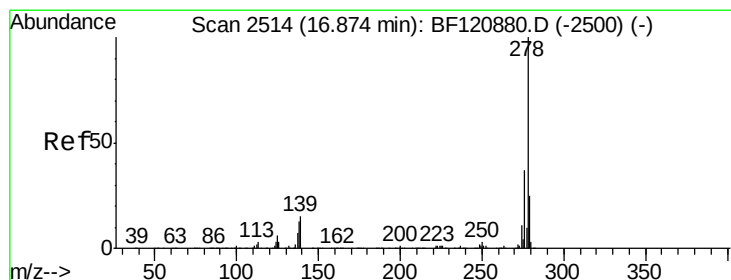
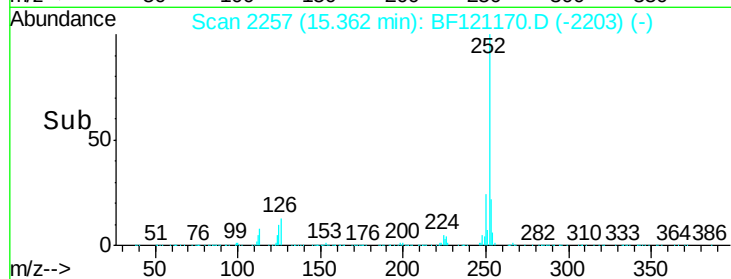
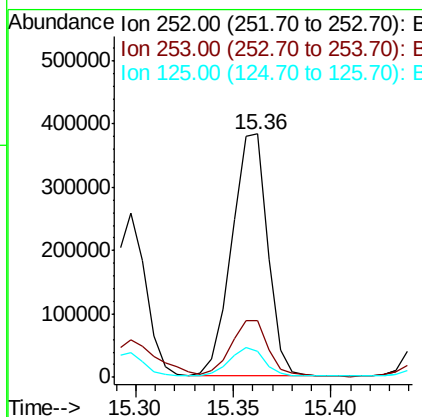
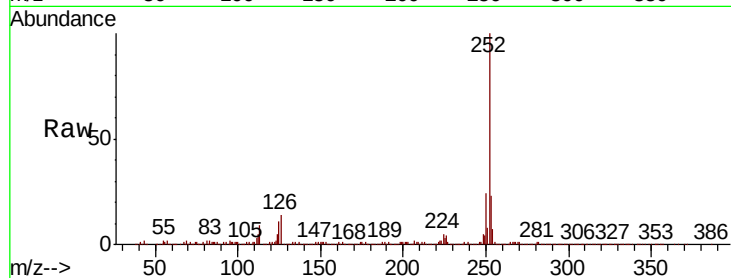
#90
Benzo(a)pyrene
Concen: 22.835 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.02 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Instrument :
BNA_F
ClientSampleId :
HD-02-072920

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	10.7	9.5	14.3

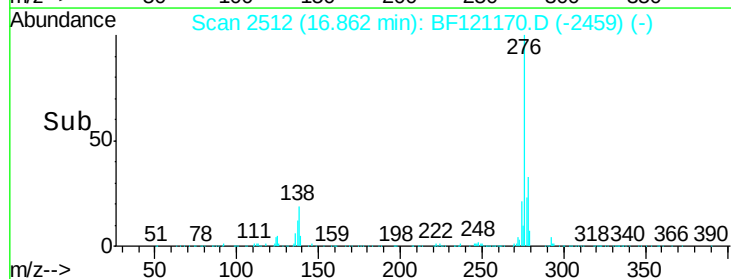
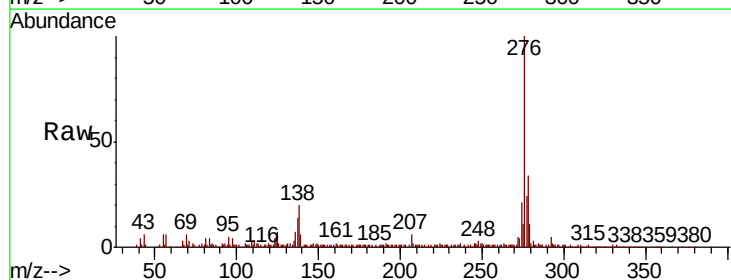
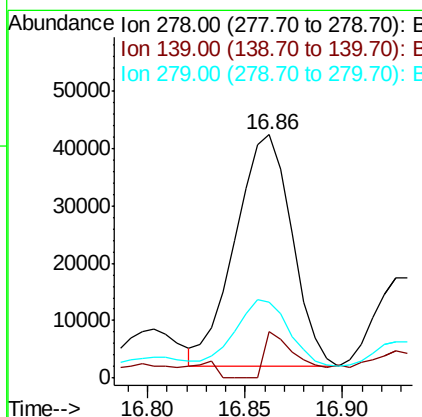
Manual Integrations
APPROVED

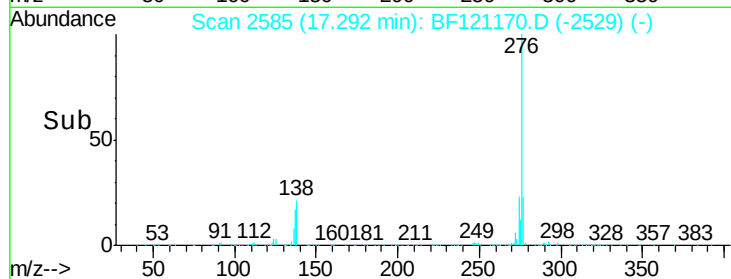
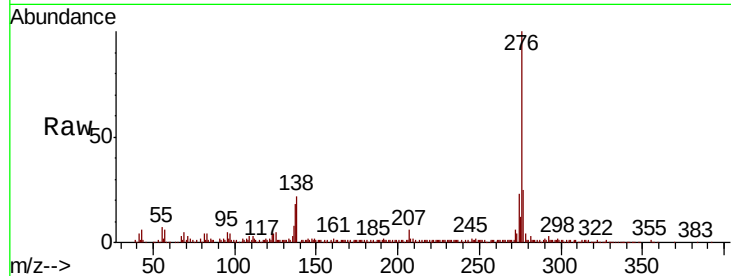
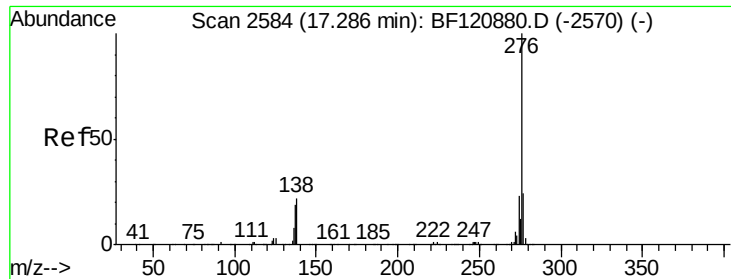
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 3.697 ng m
RT: 16.86 min Scan# 2512
Delta R.T. 0.01 min
Lab File: BF121170.D
Acq: 31 Jul 2020 20:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.2	12.6	18.8#
279	31.2	19.5	29.3#





#92

Benzo(a,h,i)perylene

Concen: 11.065 ng

RT: 17.29 min Scan# 2585

Delta R.T. 0.03 min

Lab File: BF121170.D

Acq: 31 Jul 2020 20:53

Instrument :

BNA_F

ClientSampled :

HD-02-072920

Tot Ion	Ion	Ratio	Resp	Lower	Upper
239781	276	100			
	277	24.7		19.4	29.0
	138	21.5		17.2	25.8

Manual Integrations
APPROVED

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