

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
 Data File : BF121355.D
 Acq On : 20 Aug 2020 19:18
 Operator : JU/CG
 Sample : L3499-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Manual Integrations
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 8/21/2020 12:50:06 PM

Quant Time: Aug 21 01:28:35 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 20 04:56:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	138456	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	499717	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	230237	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	397717	20.00	ng	0.00
76) Chrysene-d12	13.86	240	328039	20.00	ng	0.01
86) Perylene-d12	15.27	264	326473	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	132143	15.65	ng	0.00
7) Phenol-d6	6.33	99	162092	15.04	ng	0.00
23) Nitrobenzene-d5	7.26	82	91754	10.38	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	34410	12.83	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	196702	4.10	ng	0.00
79) Terphenyl-d14	12.80	244	181948	10.84	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.00	128	425975	17.128	ng	100
37) 2-Methylnaphthalene	8.69	142	143944	8.930	ng	99
38) 1-Methylnaphthalene	8.79	142	98360m	6.417	ng	
46) 1,1'-Biphenyl	9.15	154	42896	2.486	ng	96
49) Acenaphthylene	9.59	152	70223	3.325	ng	98
52) Acenaphthene	9.76	154	131644	10.260	ng	99
55) Dibenzofuran	9.93	168	198408	7.631	ng	99
58) Fluorene	10.27	166	264618	18.306	ng	99
71) Phenanthrene	11.24	178	1163409	56.520	ng	99
72) Anthracene	11.29	178	538090	27.146	ng	99
73) Carbazole	11.44	167	126037	6.663	ng	99
75) Fluoranthene	12.43	202	1280116	57.297	ng	98
78) Pylene	12.66	202	1174397	47.660	ng	99
81) Benzo(a)anthracene	13.84	228	725790	35.622	ng	96
83) Chrysene	13.88	228	574664	27.577	ng	96
87) Indeno(1,2,3-cd)pyrene	16.63	276	243507	12.219	ng	97
88) Benzo(b)fluoranthene	14.87	252	673043m	31.911	ng	
89) Benzo(k)fluoranthene	14.89	252	221441m	11.927	ng	
90) Benzo(a)pyrene	15.21	252	496992	27.271	ng	98
91) Dibenz(a,h)anthracene	16.63	278	69393	4.247	ng	# 84
92) Benzo(g,h,i)perylene	17.04	276	220847	13.825	ng	98

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

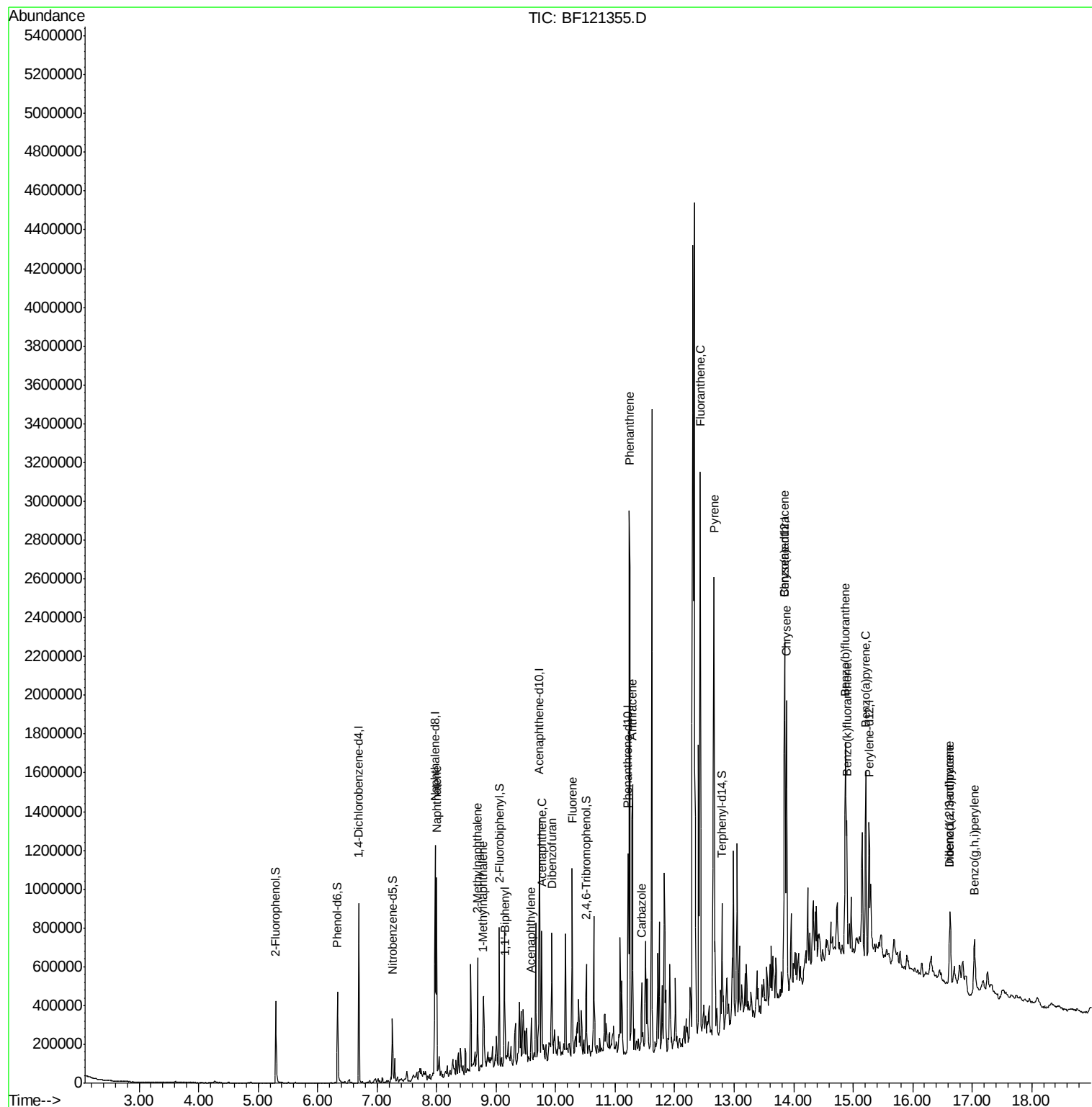
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
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ALS Vial : 22 Sample Multiplier: 1

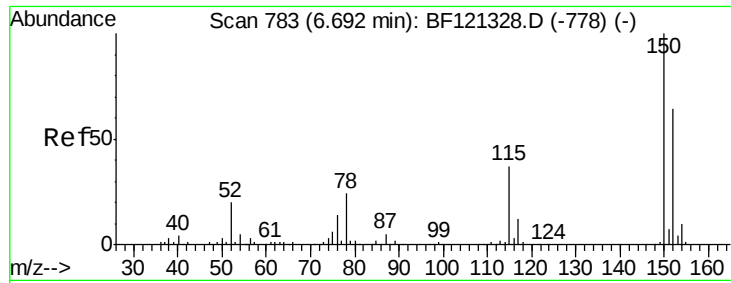
Instrument :
BNA_F
ClientSampleId :
HD-01-081820

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Quant Time: Aug 21 01:28:35 2020
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

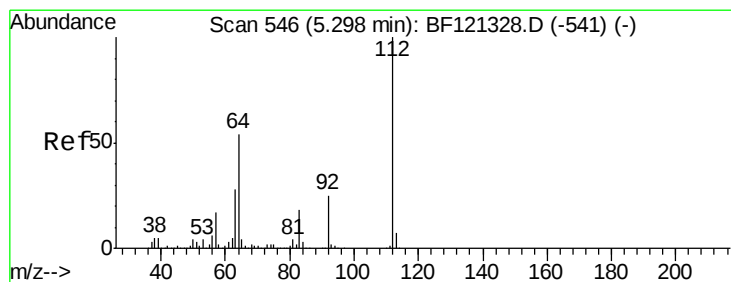
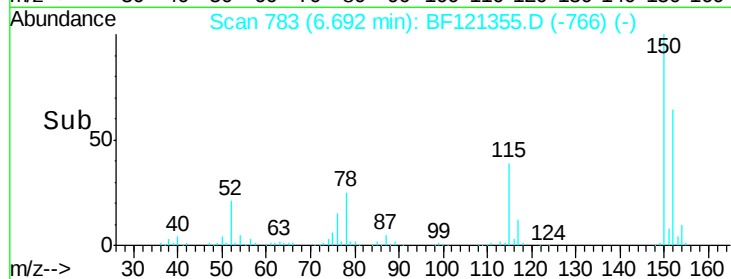
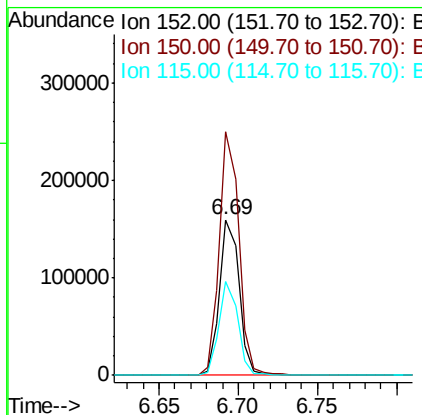
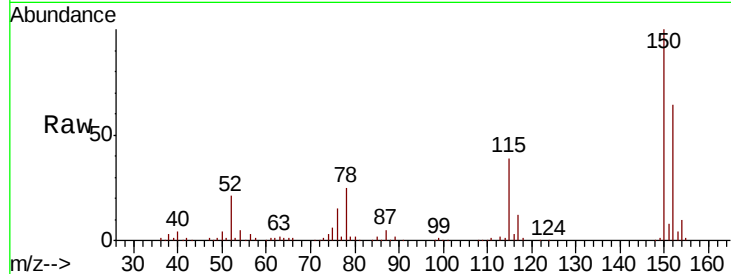
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.8	187.2
115	60.2	46.1	69.1

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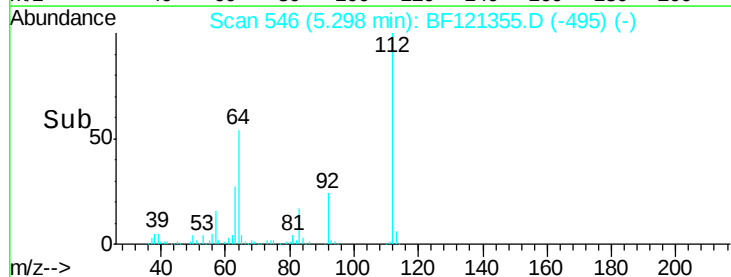
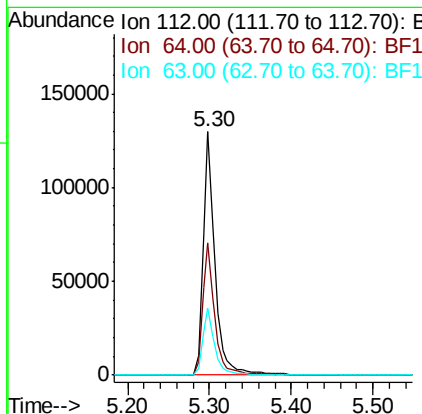
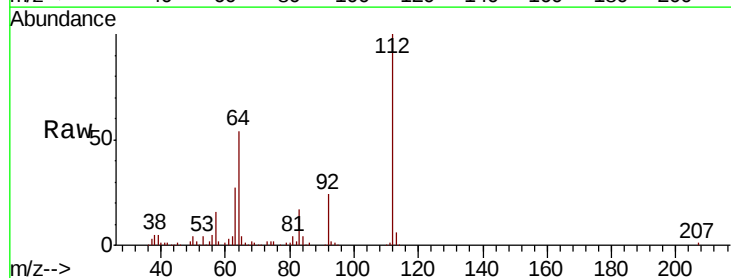
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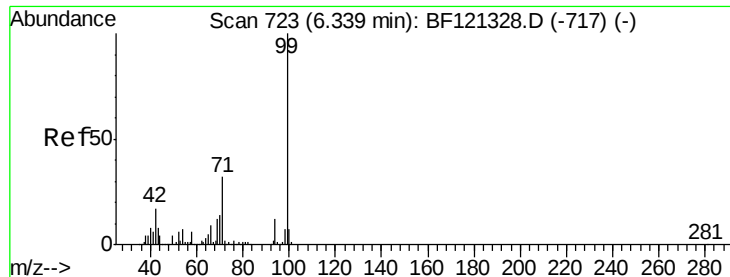


#5

2-Fluorophenol
Concen: 15.650 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	43.5	65.3
63	27.4	22.0	33.0





#7

Phenol-d6

Concen: 15.037 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

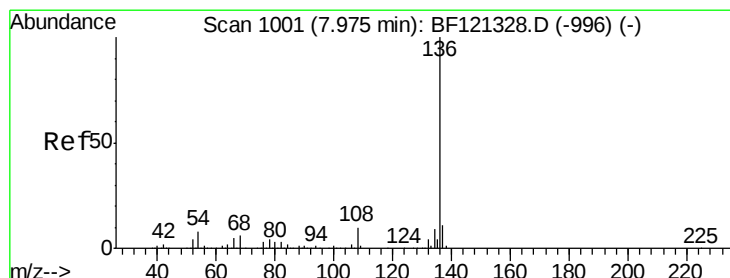
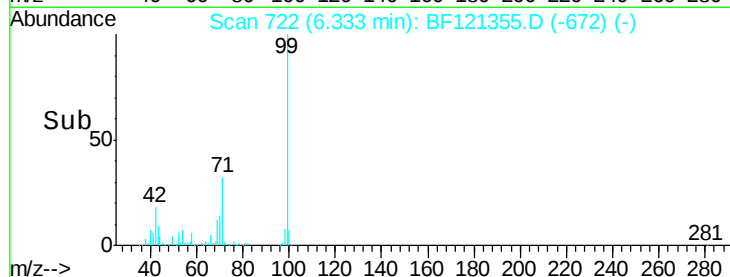
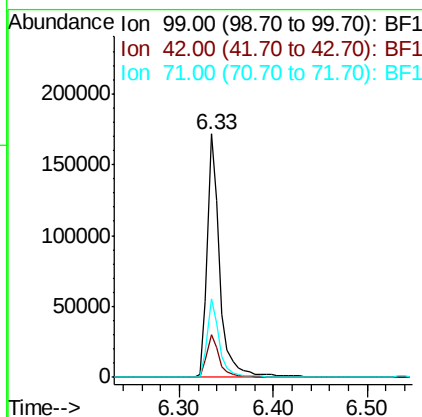
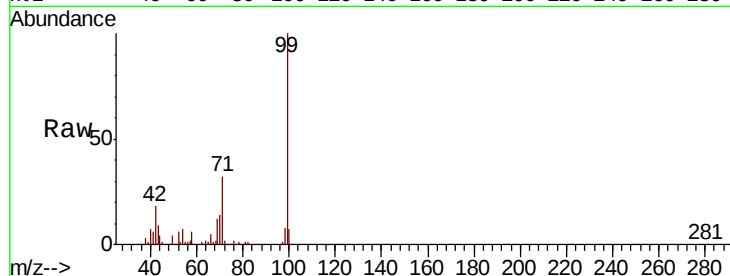
ClientSampleId :

HD-01-081820

Tot Ion:	99	Resp:	162092
Ion Ratio	Lower	Upper	
99	100		
42	17.7	13.5	20.3
71	32.0	25.2	37.8

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#21

Naphthalene-d8

Concen: 20.000 ng

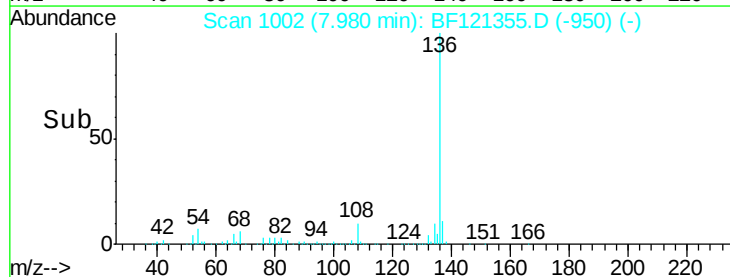
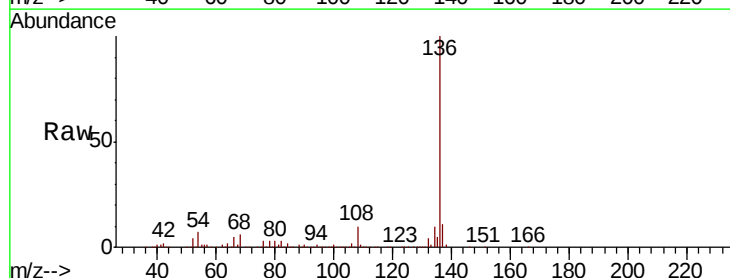
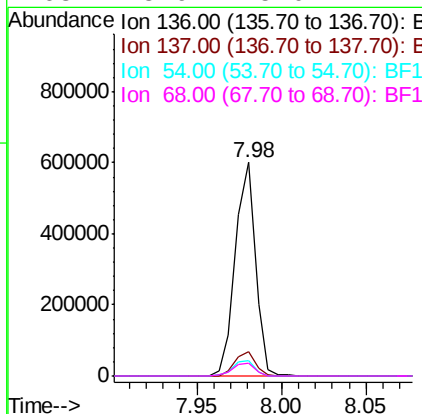
RT: 7.98 min Scan# 1002

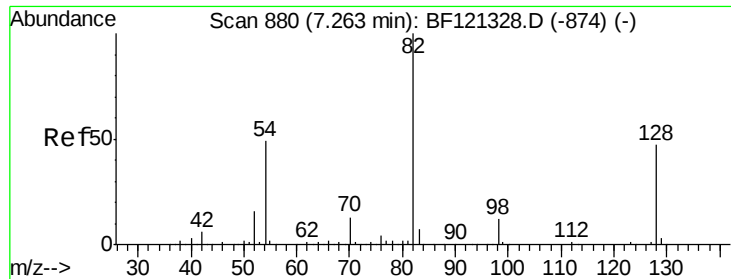
Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion:	136	Resp:	499717
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.3	6.1	9.1
68	5.9	5.0	7.4





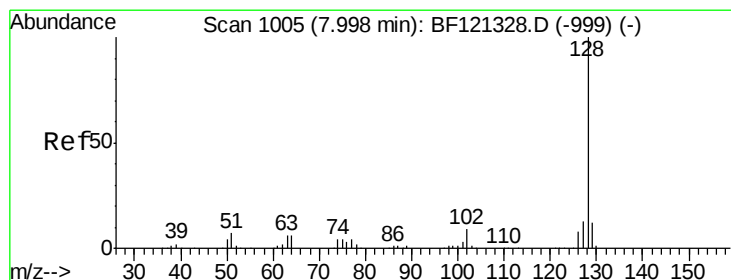
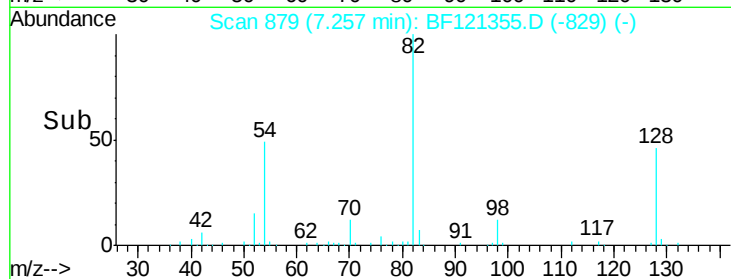
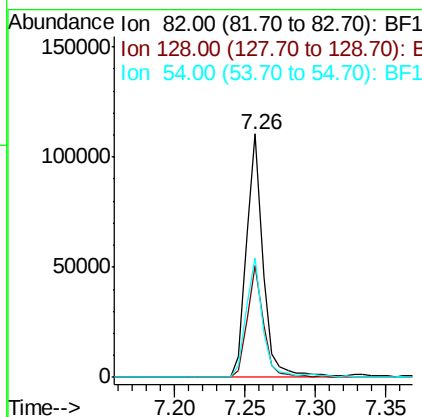
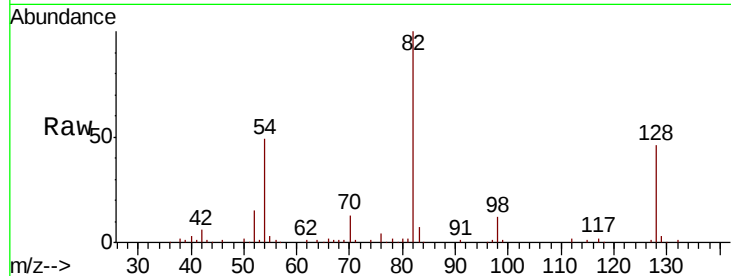
#23
 Nitrobenzene-d5
 Concen: 10.384 ng
 RT: 7.26 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion:	82	Resp:	91754
Ion Ratio	Lower	Upper	
82	100		
128	46.1	37.9	56.9
54	49.0	39.0	58.4

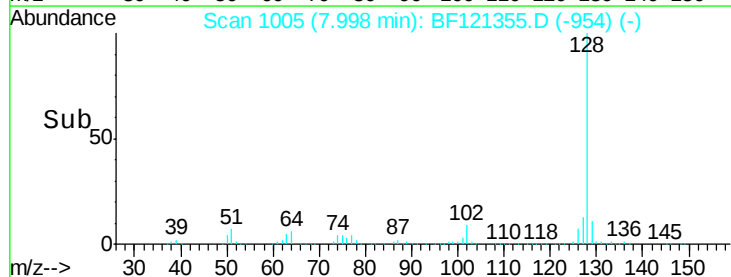
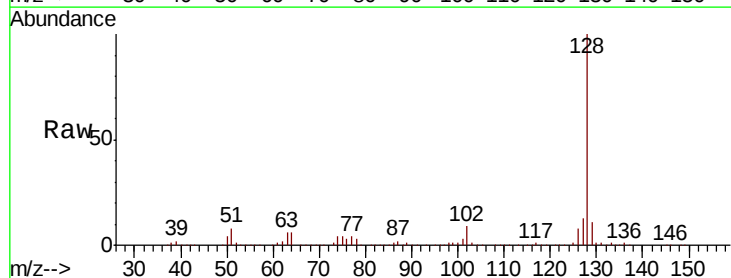
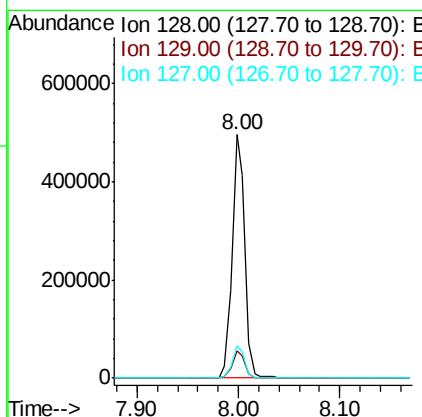
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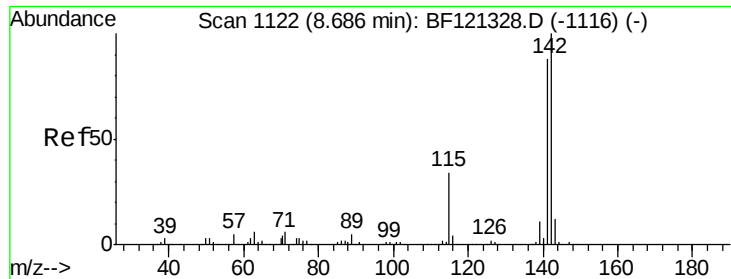
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#31
 Naphthalene
 Concen: 17.128 ng
 RT: 8.00 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion:	128	Resp:	425975
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.3	13.9
127	13.2	10.6	16.0





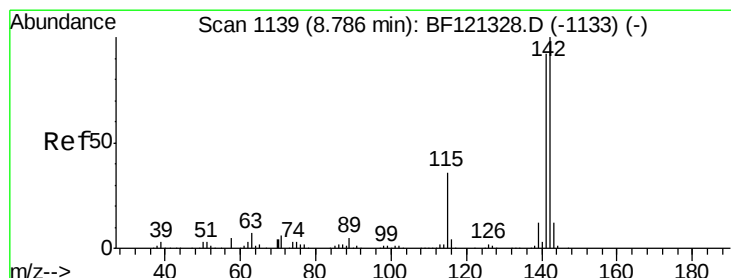
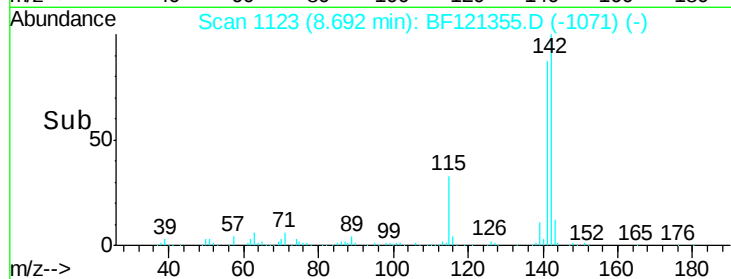
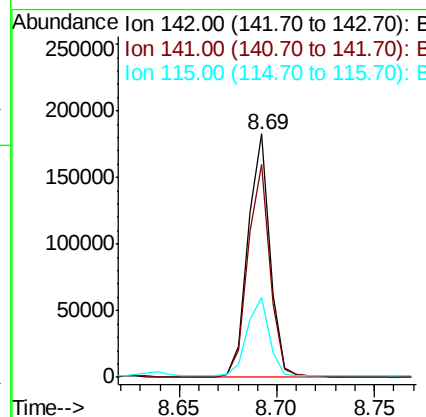
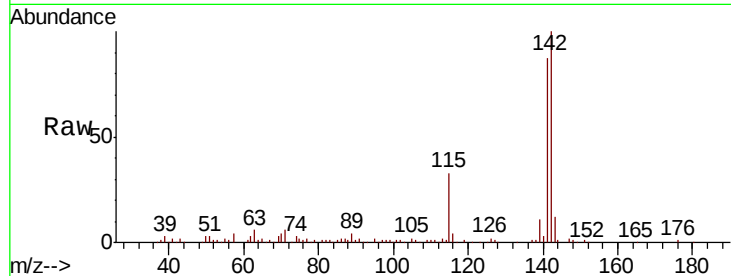
#37
2-Methylnaphthalene
Concen: 8.930 ng
RT: 8.69 min Scan# 1123
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Resp	Lower	Upper
142	100	143944		
141	87.4	70.3	105.5	
115	32.8	26.9	40.3	

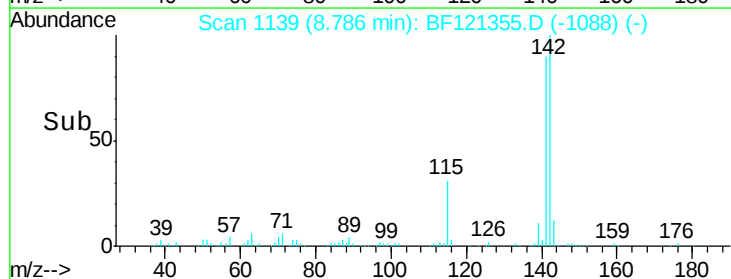
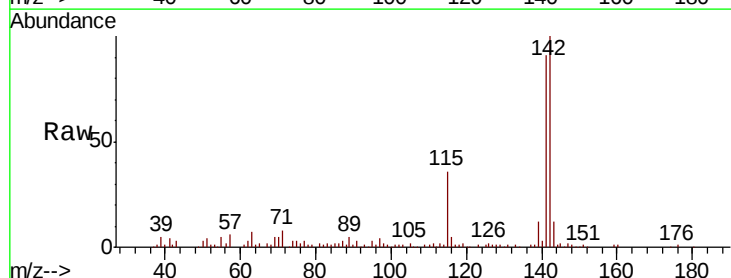
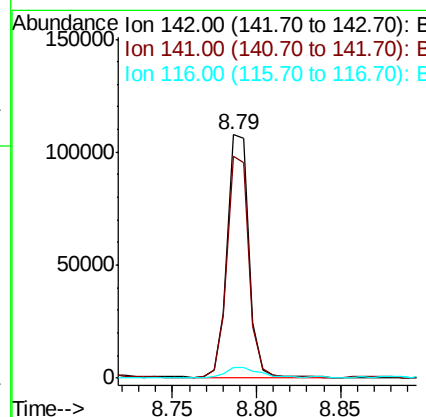
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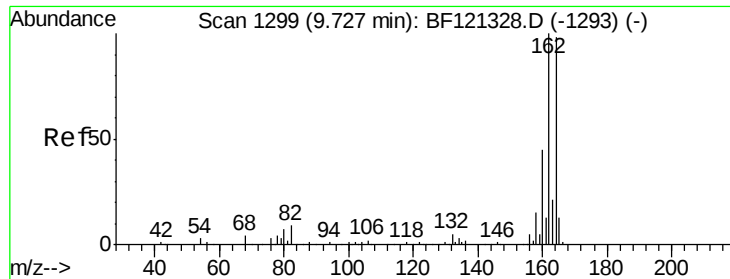
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#38
1-Methylnaphthalene
Concen: 6.417 ng m
RT: 8.79 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	98360		
141	90.9	73.6	110.4	
116	4.5	3.0	4.4#	





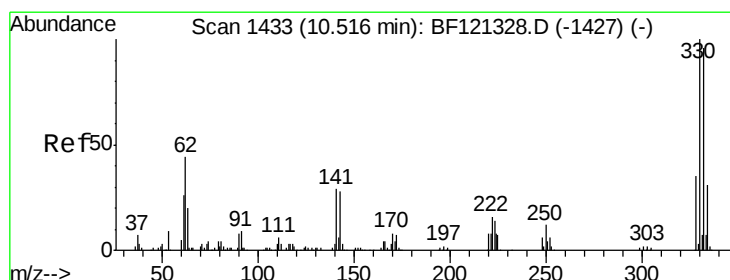
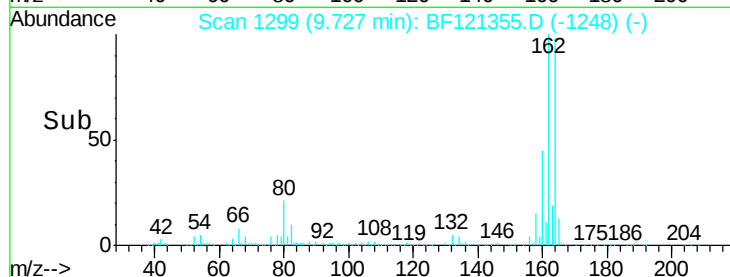
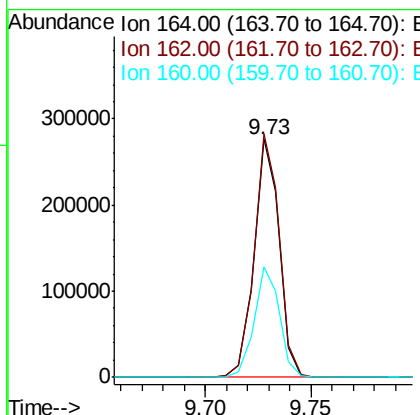
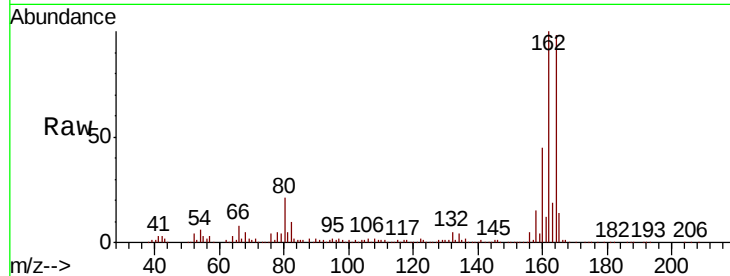
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.7	122.5
160	46.2	37.0	55.4

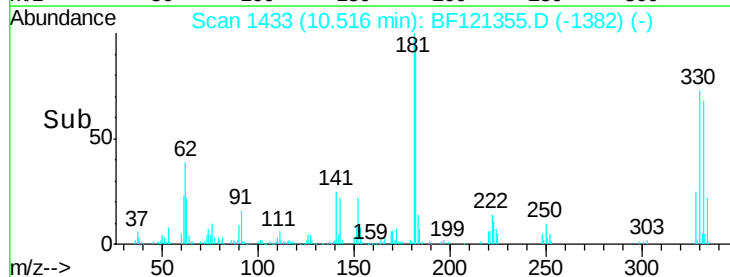
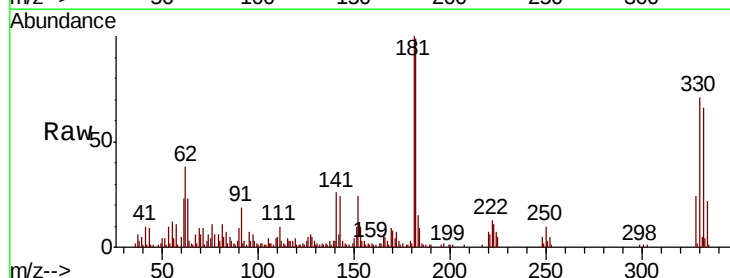
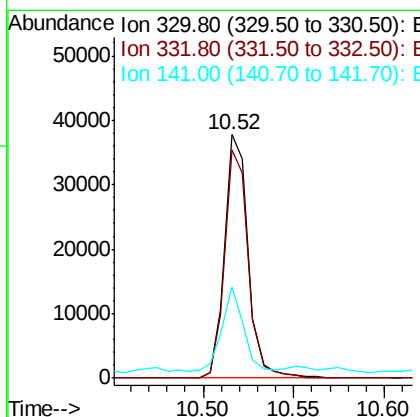
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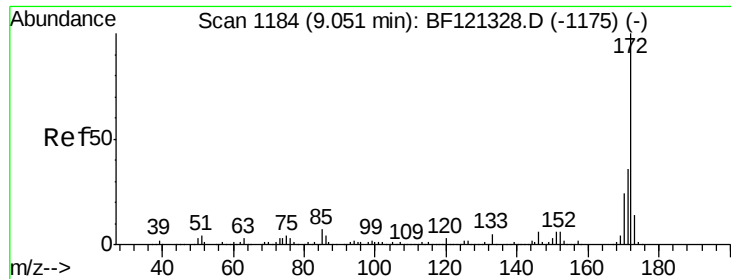
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#42
 2,4,6-Tribromophenol
 Concen: 12.825 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.2	76.9	115.3
141	30.8	22.8	34.2





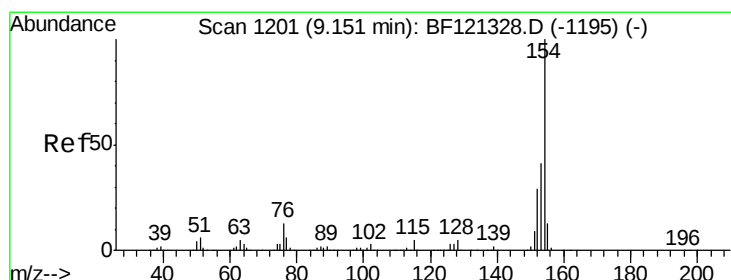
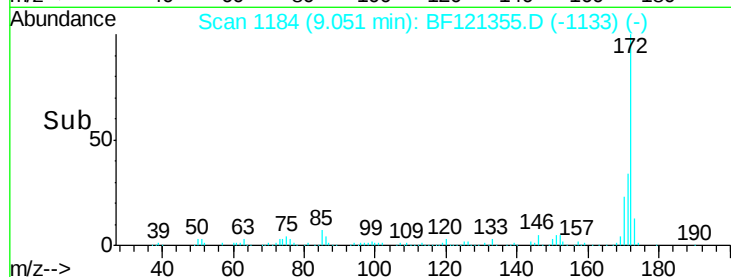
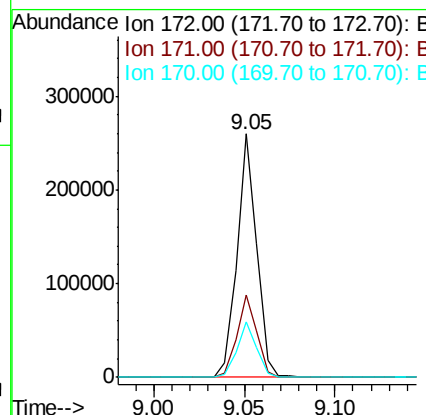
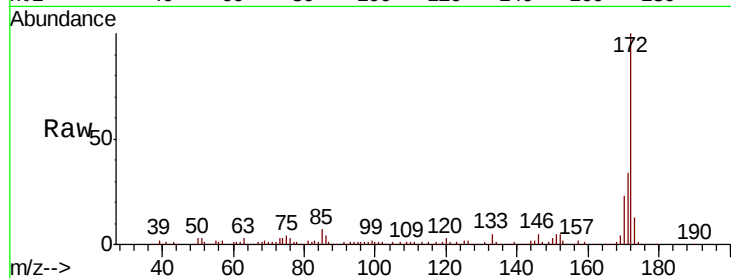
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2-Fluorobiphenyl
Concen: 4.096 ng
RT: 9.05 min Scan# 1184
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.0	43.6
170	22.9	19.4	29.2

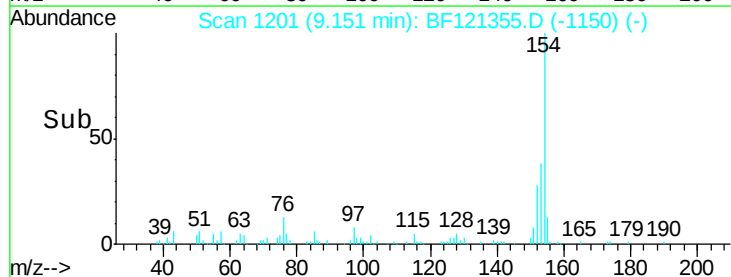
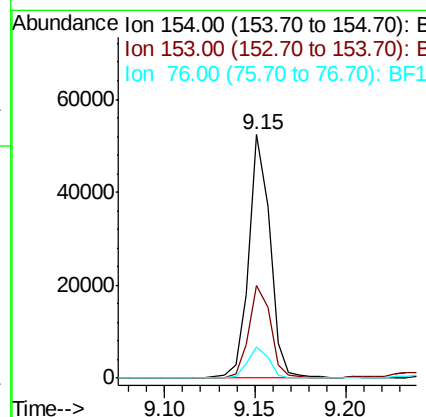
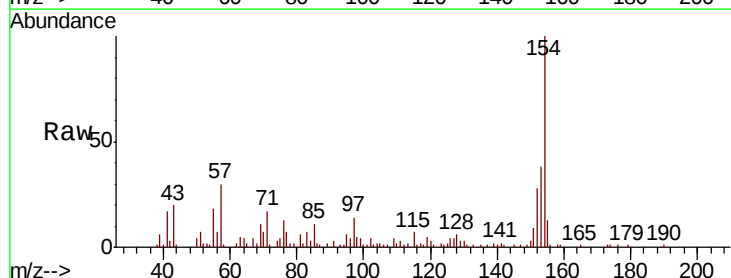
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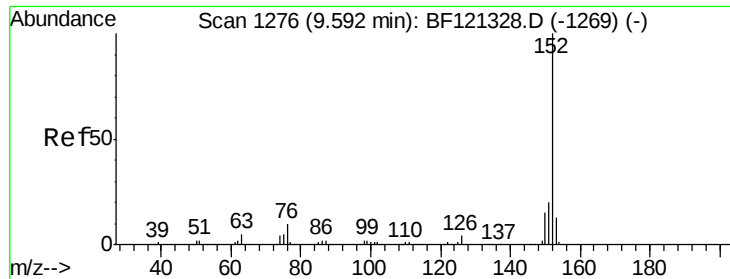
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#46
1,1'-Biphenyl
Concen: 2.486 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
154	100		
153	37.8	20.8	60.8
76	12.7	0.0	33.1





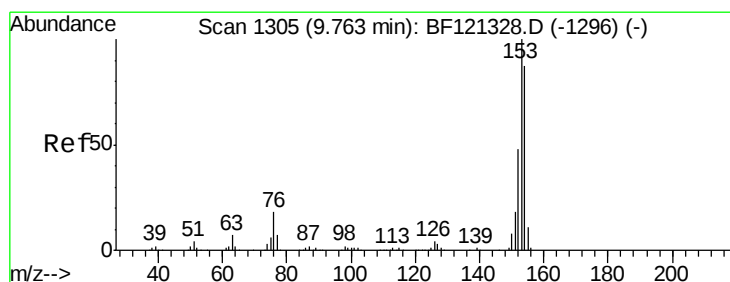
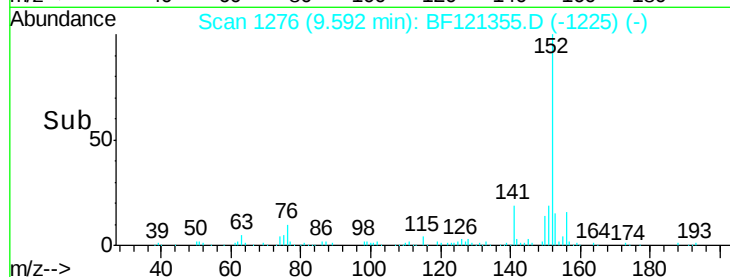
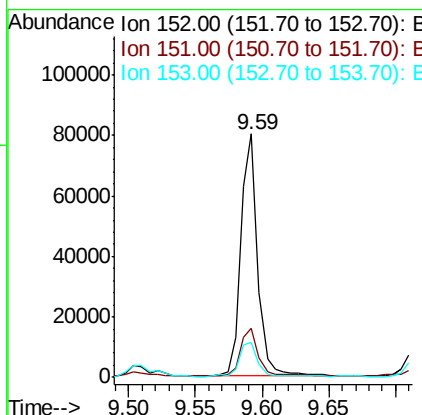
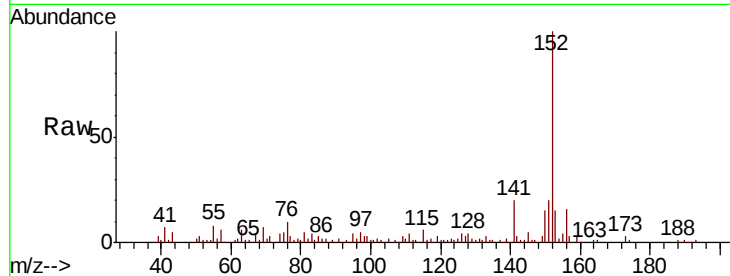
#49
Acenaphthylene
Concen: 3.325 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion:	152	Resp:	70223
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.4	24.6
153	14.6	10.6	16.0

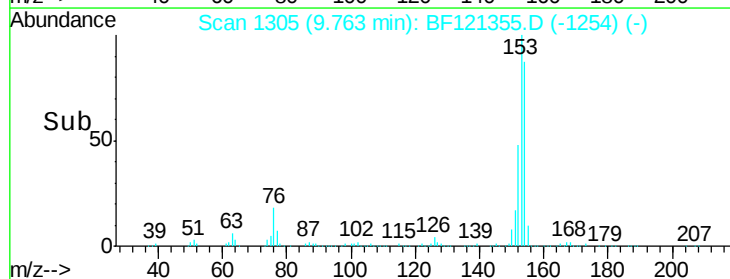
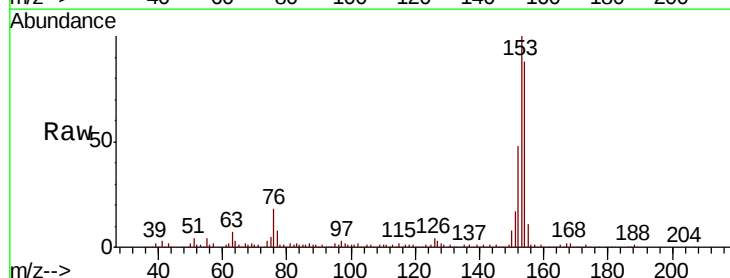
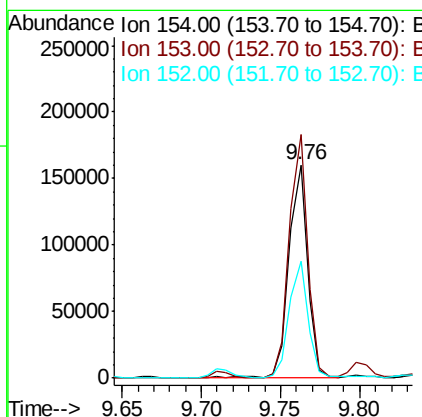
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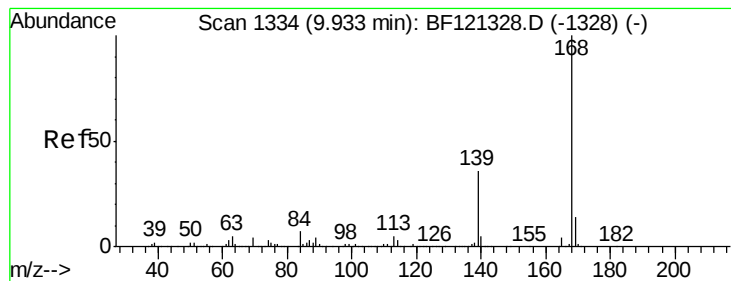
mohammad
8/21/2020 12:50:06 PM



#52
Acenaphthene
Concen: 10.260 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion:	154	Resp:	131644
Ion Ratio	Lower	Upper	
154	100		
153	114.3	92.0	138.0
152	54.6	44.6	66.8





#55

Dibenzofuran

Concen: 7.631 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

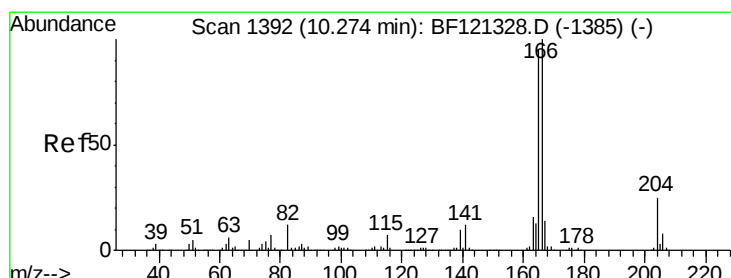
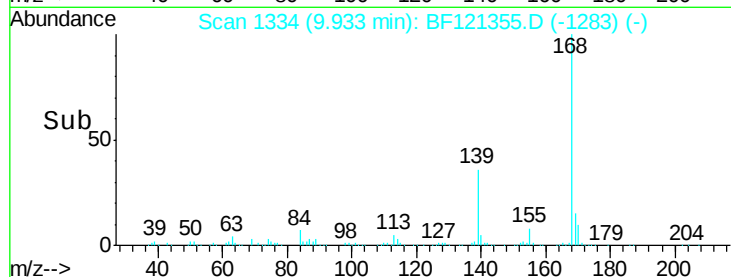
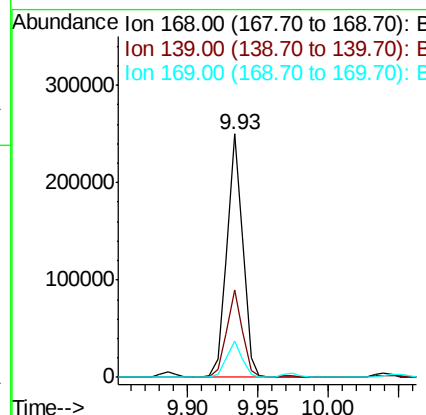
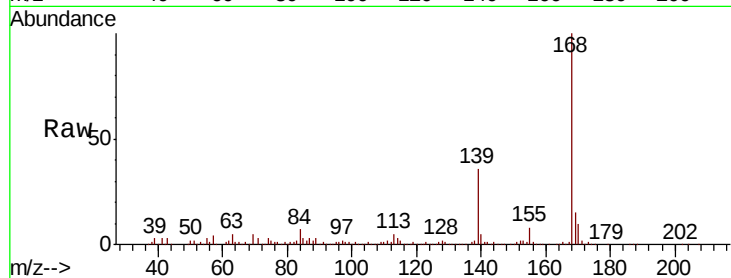
ClientSampleId :

HD-01-081820

Tot Ion:	168	Resp:	198408
Ion Ratio	Lower	Upper	
168	100		
139	36.1	29.1	43.7
169	14.9	11.0	16.6

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#58

Fluorene

Concen: 18.306 ng

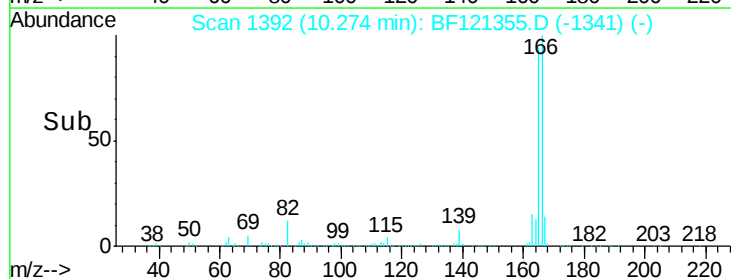
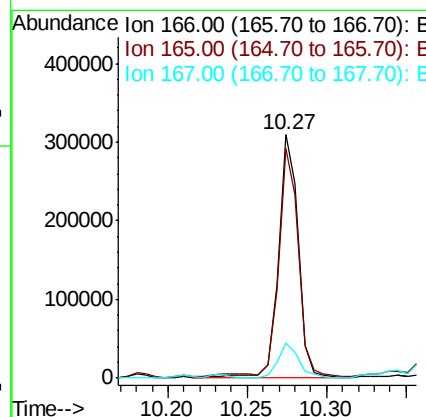
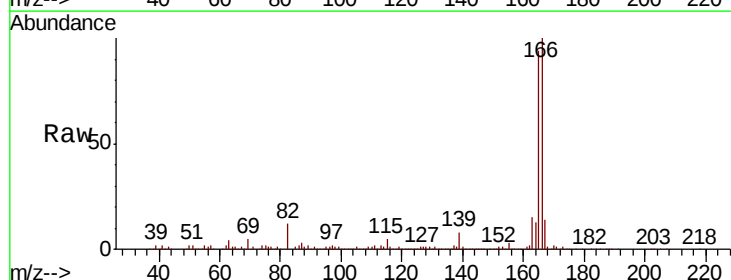
RT: 10.27 min Scan# 1392

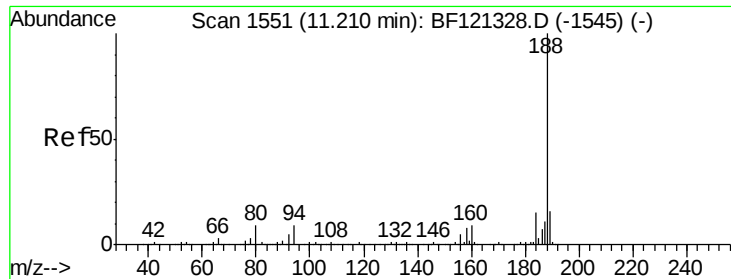
Delta R.T. 0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion:	166	Resp:	264618
Ion Ratio	Lower	Upper	
166	100		
165	94.4	75.8	113.8
167	14.5	11.0	16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.22 min Scan# 1552

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

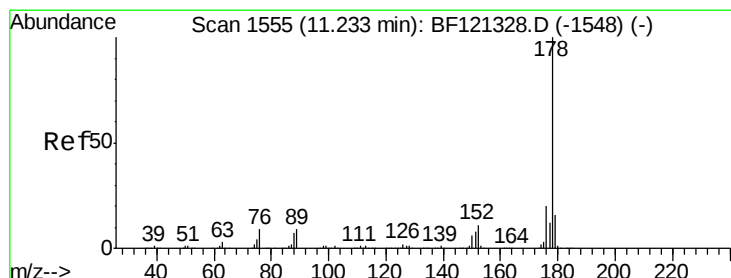
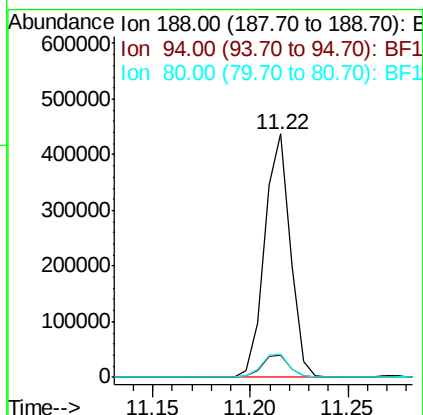
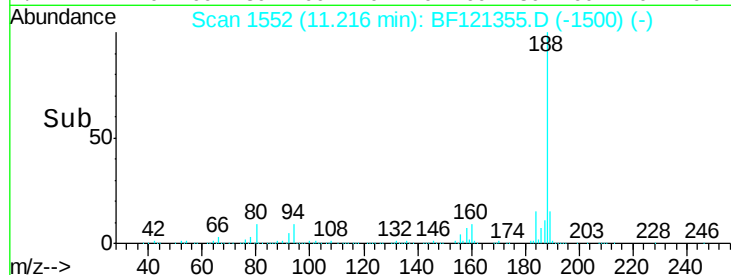
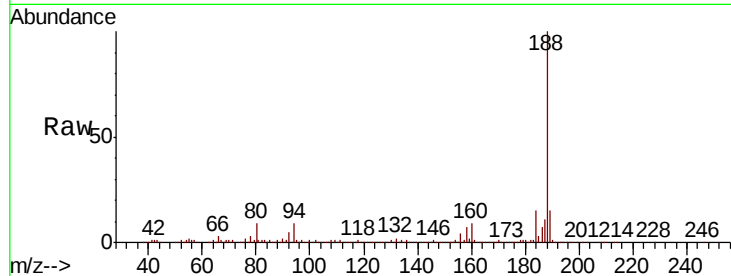
ClientSampleId :

HD-01-081820

Tot Ion:	188	Resp:	397717
Ion Ratio	Lower	Upper	
188	100		
94	9.0	7.2	10.8
80	9.4	7.4	11.0

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#71

Phenanthrene

Concen: 56.520 ng

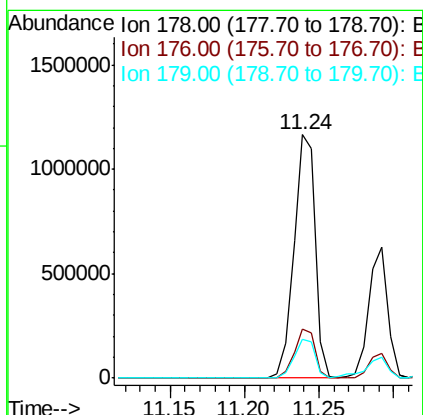
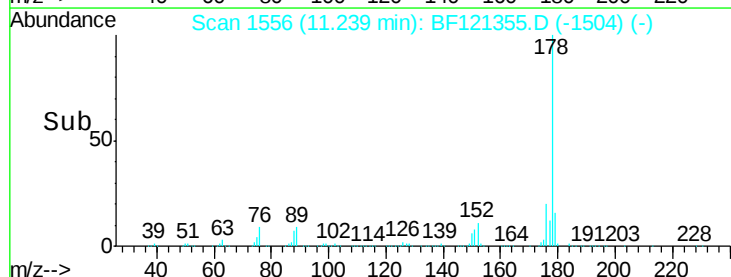
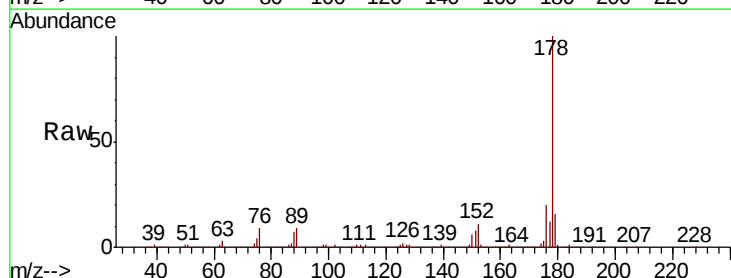
RT: 11.24 min Scan# 1556

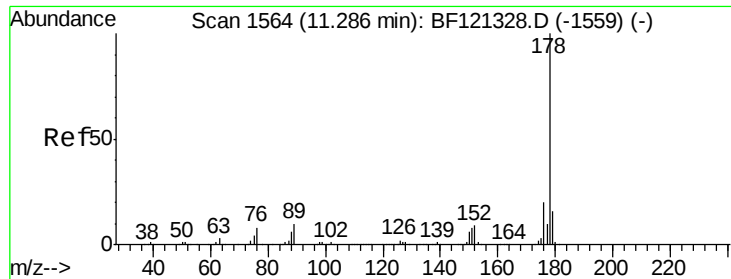
Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion:	178	Resp:	1163409
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.0	24.0
179	16.2	12.8	19.2





#72

Anthracene

Concen: 27.146 ng

RT: 11.29 min Scan# 1565

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

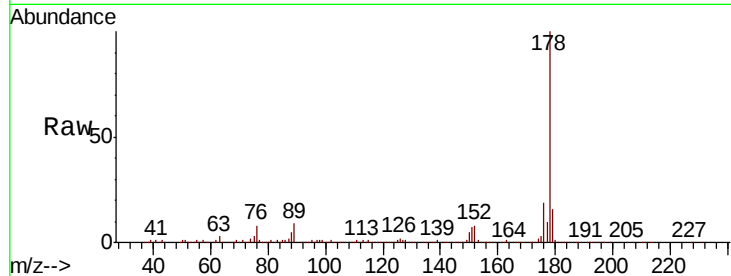
ClientSampleId :

HD-01-081820

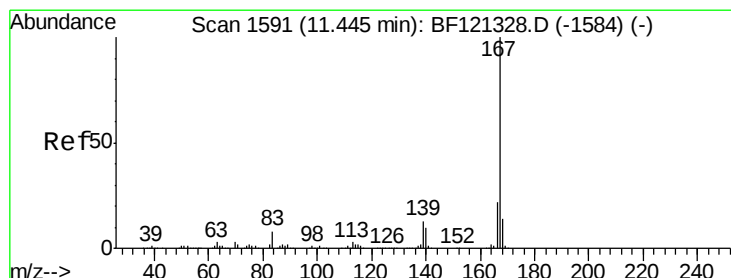
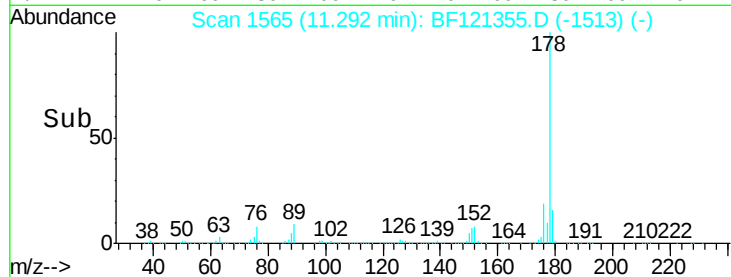
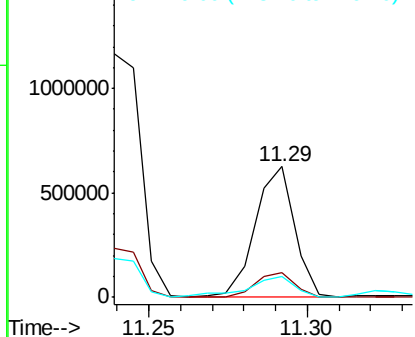
Tot Ion:178	Resp:	538090
Ion Ratio	Lower	Upper
178	100	
176	19.1	15.6 23.4
179	15.7	12.8 19.2

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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: 6.663 ng

RT: 11.44 min Scan# 1591

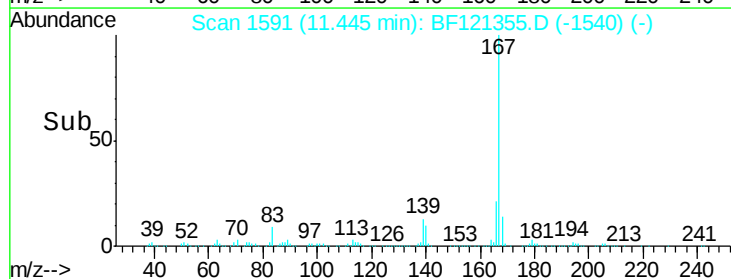
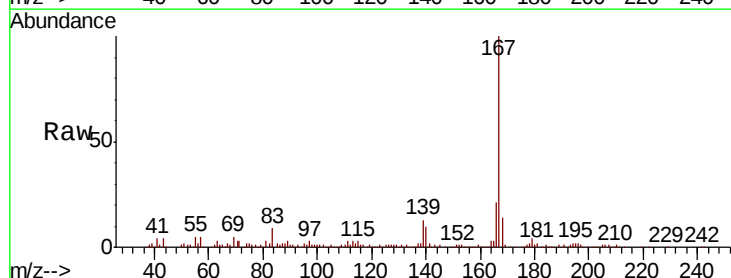
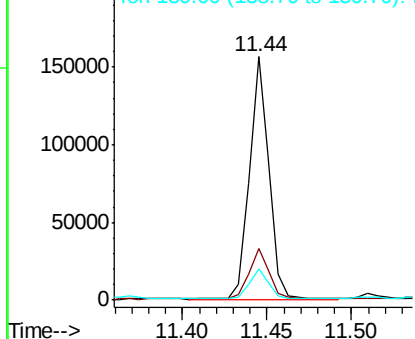
Delta R.T. -0.00 min

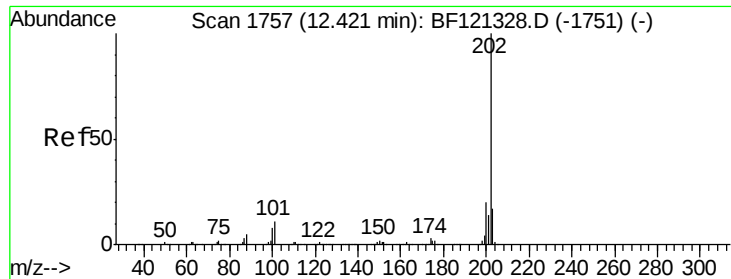
Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion:167	Resp:	126037
Ion Ratio	Lower	Upper
167	100	
166	21.3	17.7 26.5
139	13.0	10.2 15.2

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: 57.297 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

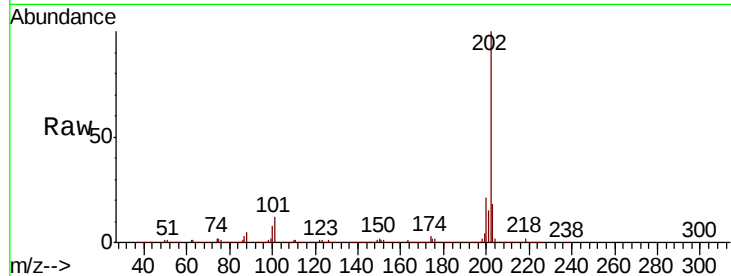
ClientSampleId :

HD-01-081820

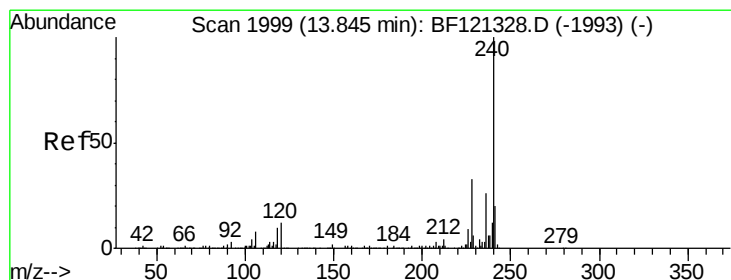
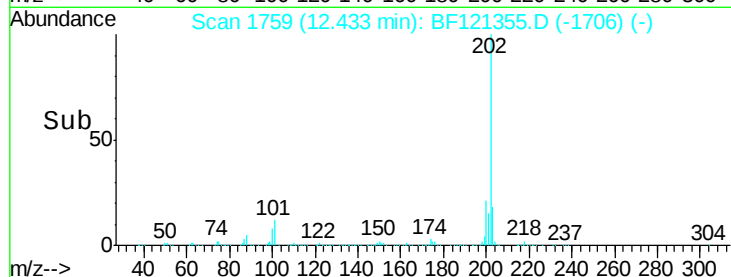
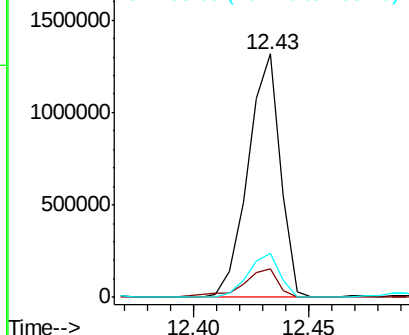
Tot Ion:	202	Resp:	1280116
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	30.6
203	18.2	0.0	37.5

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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

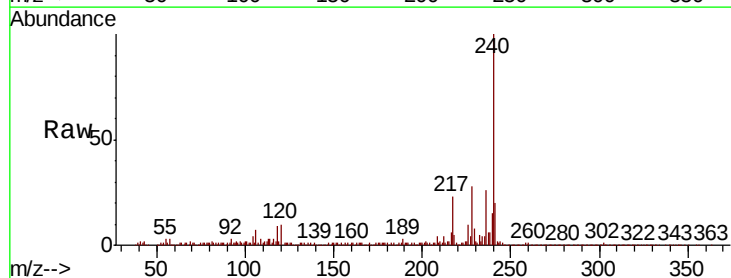
RT: 13.86 min Scan# 2001

Delta R.T. 0.01 min

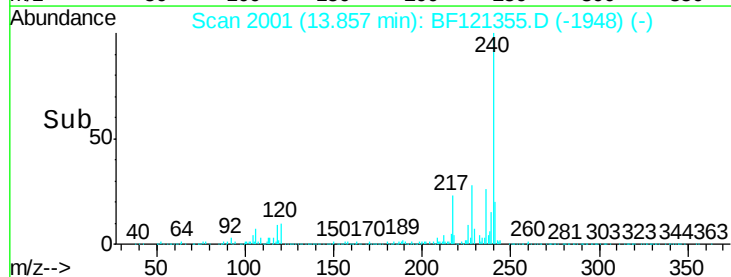
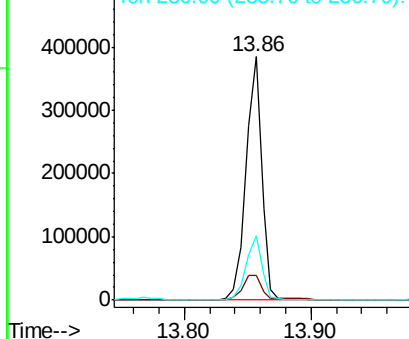
Lab File: BF121355.D

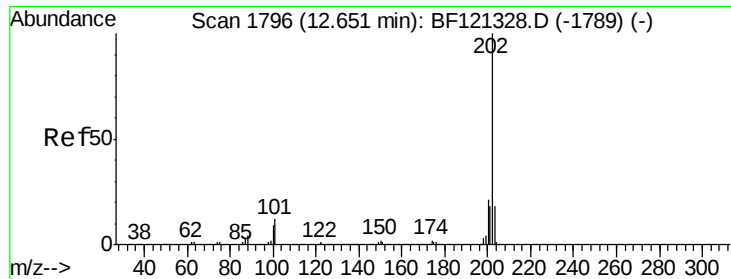
Acq: 20 Aug 2020 19:18

Tgt Ion:	240	Resp:	328039
Ion	Ratio	Lower	Upper
240	100		
120	10.3	9.6	14.4
236	26.2	20.6	31.0



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





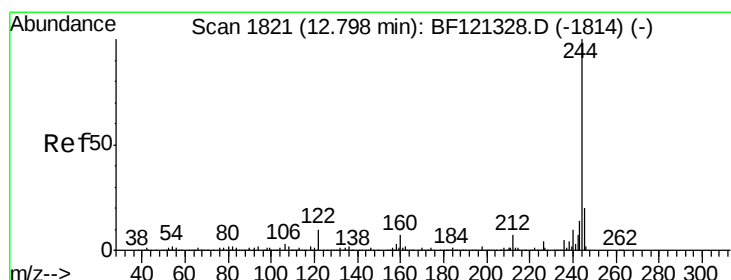
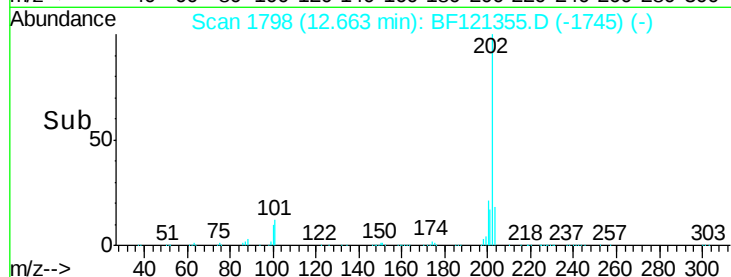
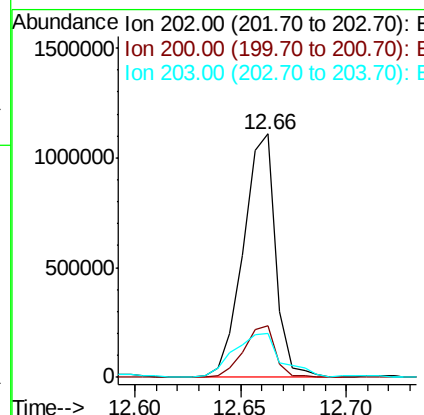
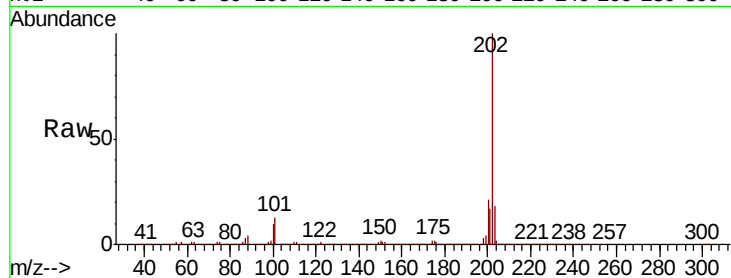
#78
Pvrene
Concen: 47.660 ng
RT: 12.66 min Scan# 1798
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	24.8
203	18.3	14.2	21.2

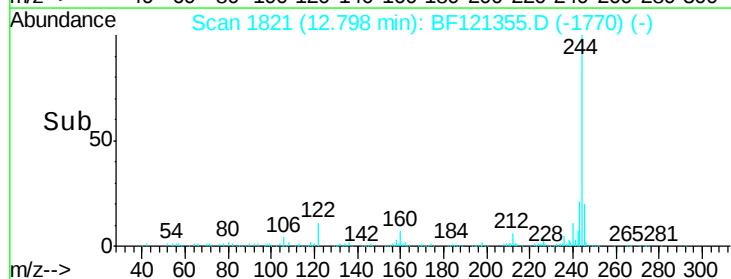
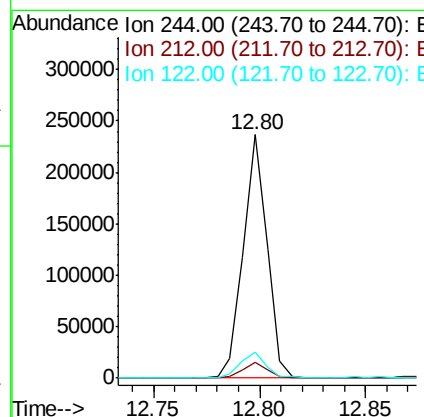
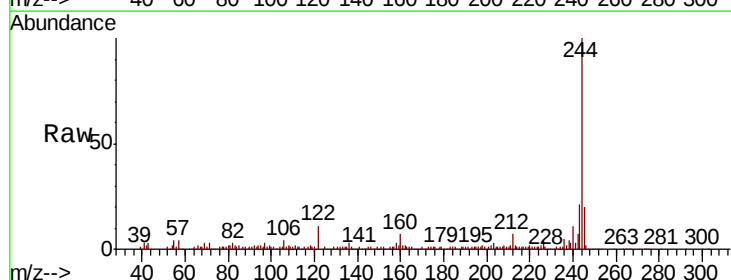
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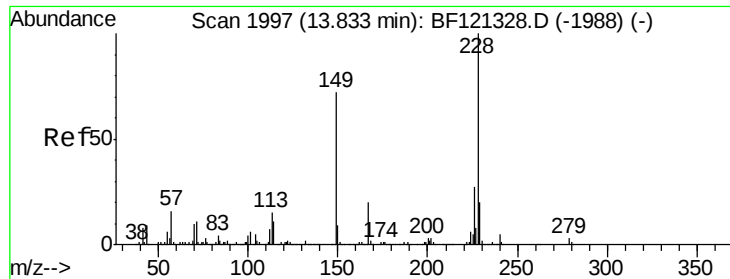
mohammad
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#79
Terphenyl-d14
Concen: 10.839 ng
RT: 12.80 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.9	7.8	11.8





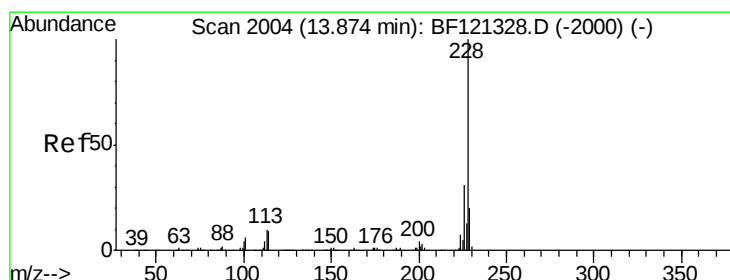
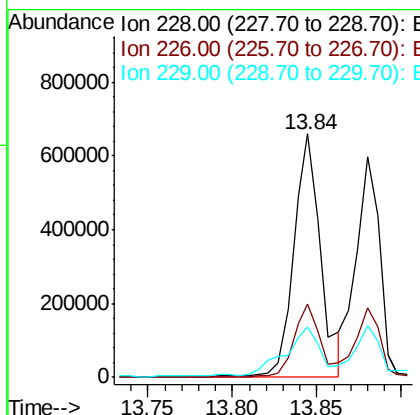
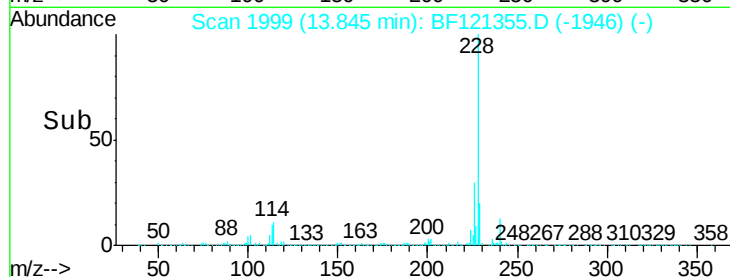
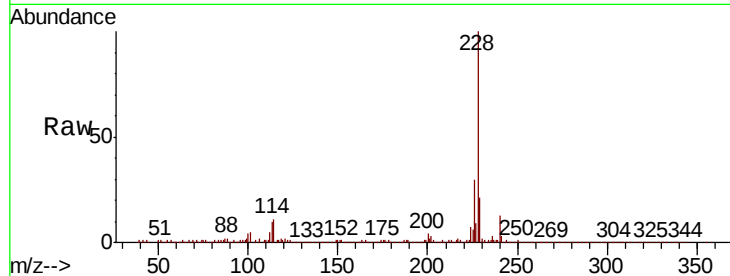
#81
Benzo(a)anthracene
Concen: 35.622 ng
RT: 13.84 min Scan# 1999
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	21.8	32.6
229	20.7	15.8	23.8

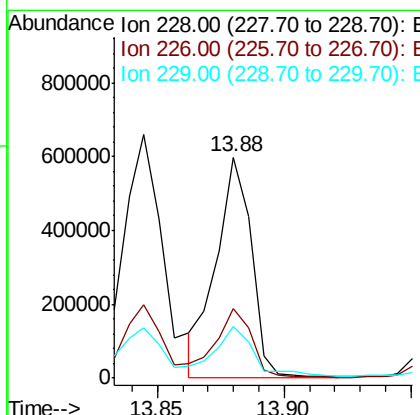
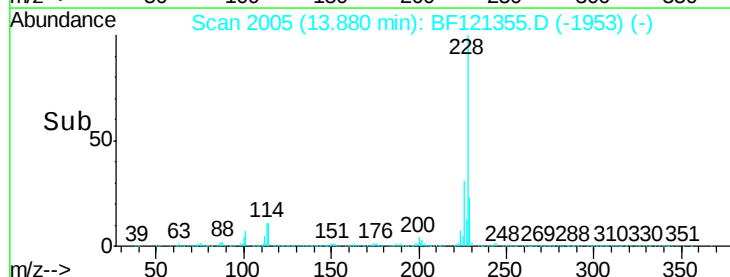
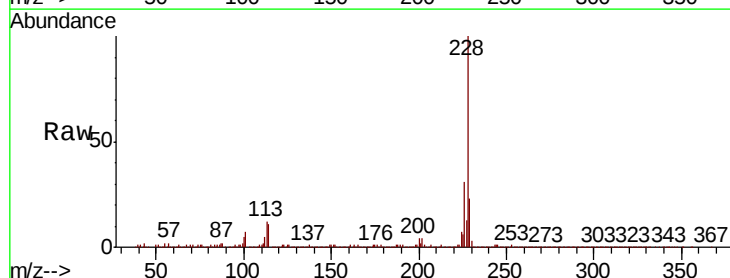
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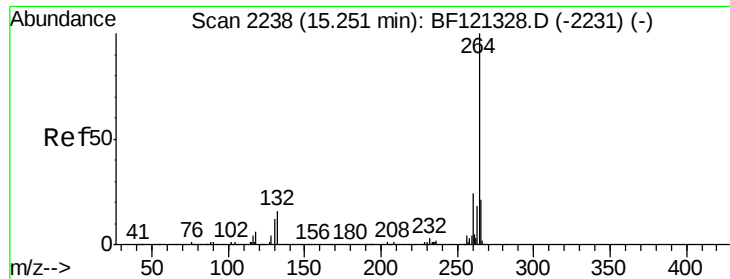
mohammad
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#83
Chrysene
Concen: 27.577 ng
RT: 13.88 min Scan# 2005
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	36.8
229	23.5	15.9	23.9





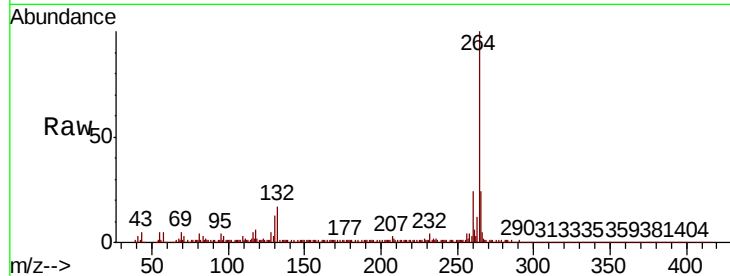
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	23.6	17.1	25.7

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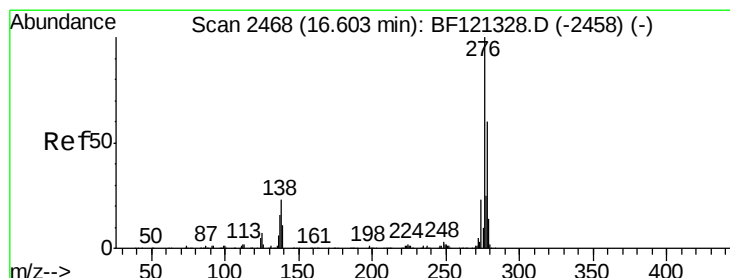
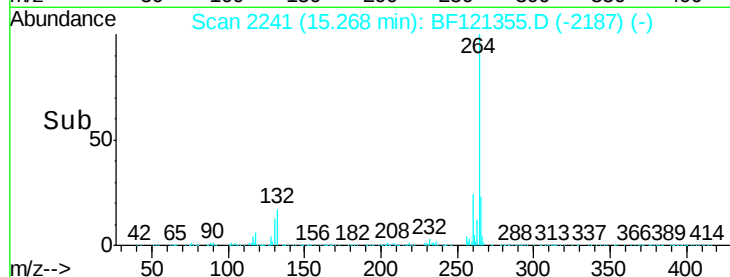
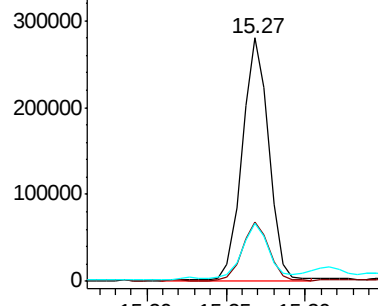


Abundance

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



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.219 ng
RT: 16.63 min Scan# 2472
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

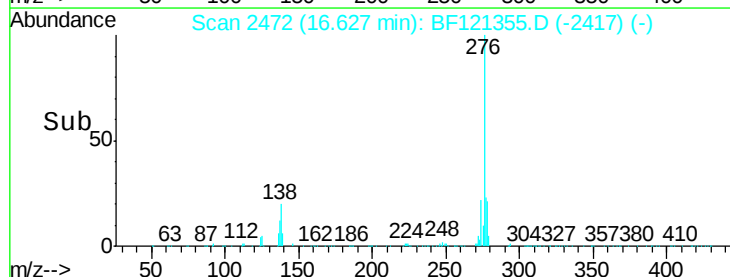
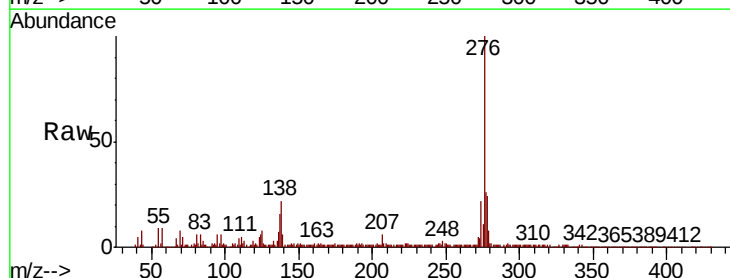
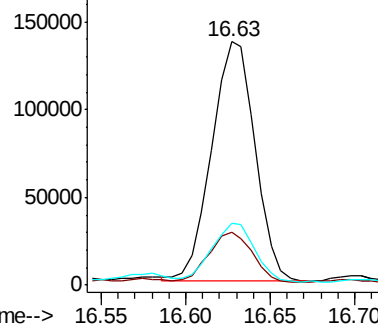
Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.9	19.4	29.0
277	24.8	19.9	29.9

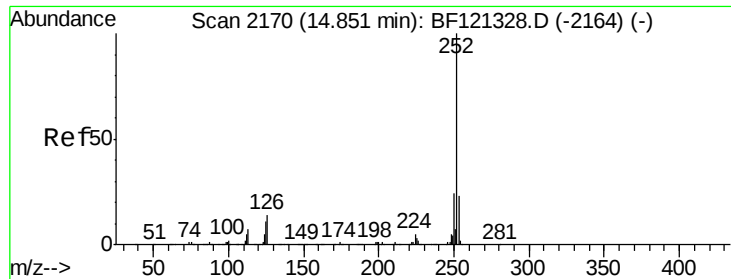
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





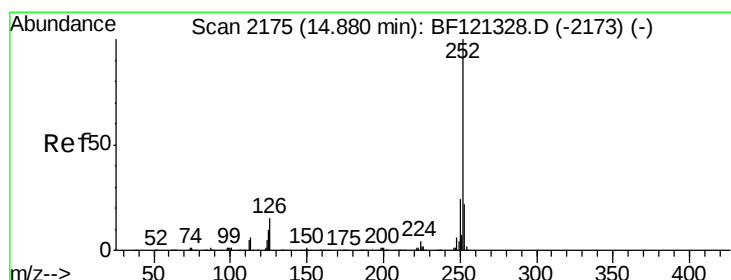
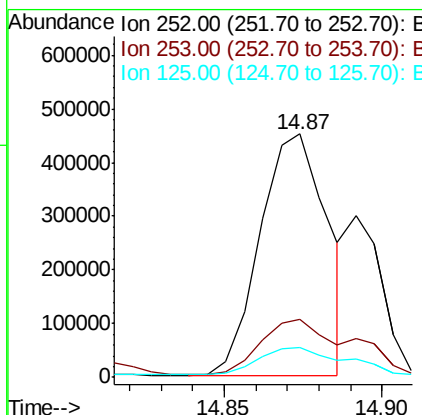
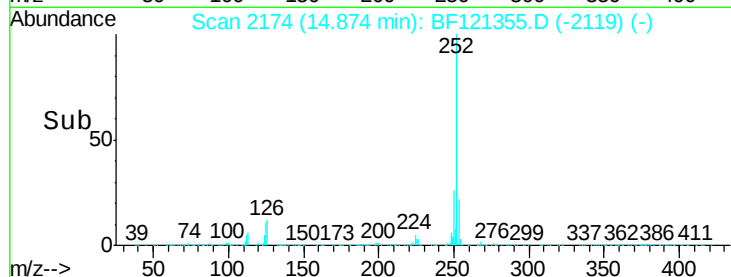
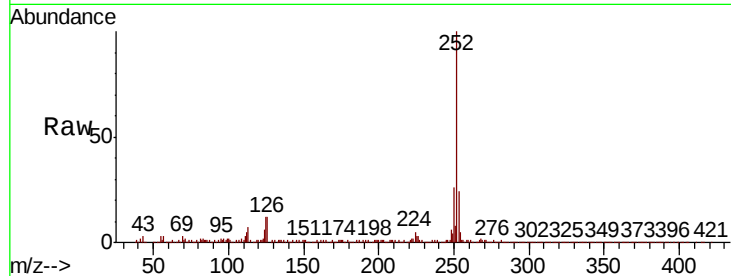
#88
Benzo(b)fluoranthene
Concen: 31.911 ng m
RT: 14.87 min Scan# 2174
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.0	27.0
125	12.1	8.6	12.8

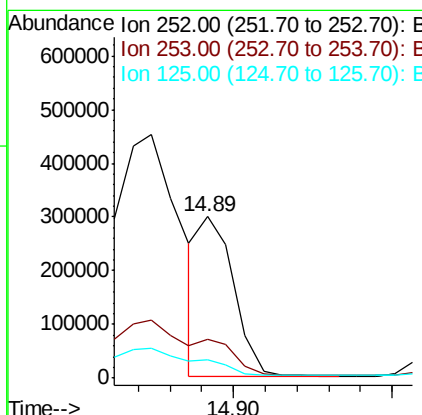
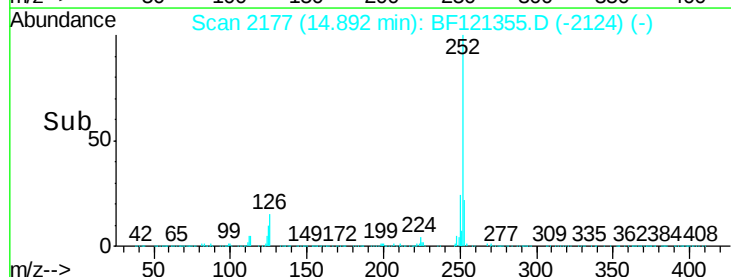
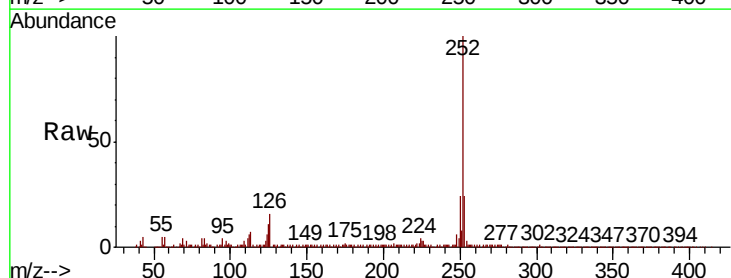
Manual Integrations
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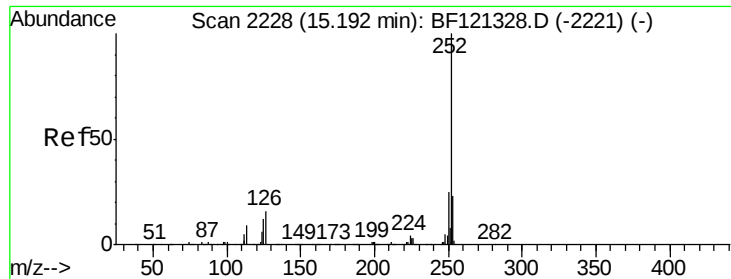
mohammad
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#89
Benzo(k)fluoranthene
Concen: 11.927 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	11.5	8.6	12.8





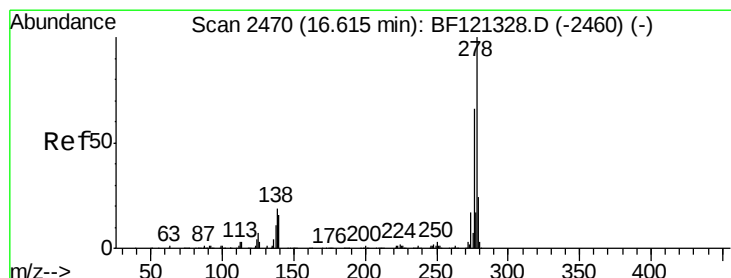
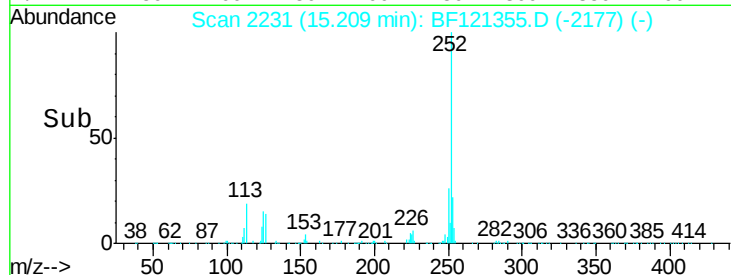
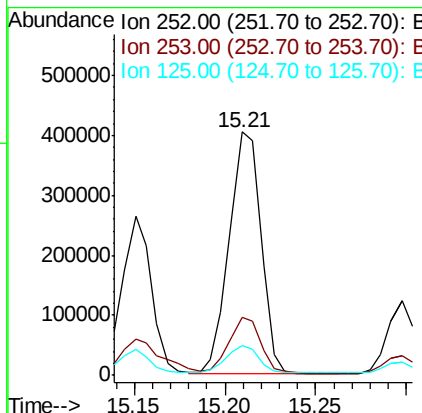
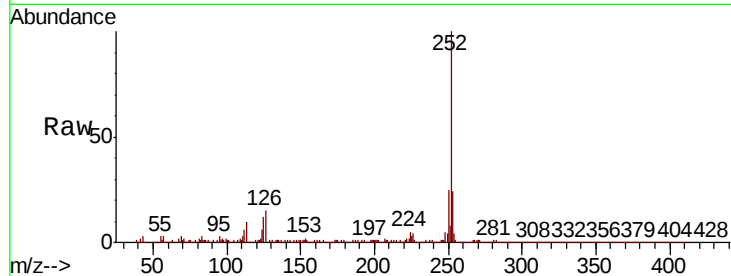
#90
Benzo(a)pyrene
Concen: 27.271 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	12.4	9.4	14.0

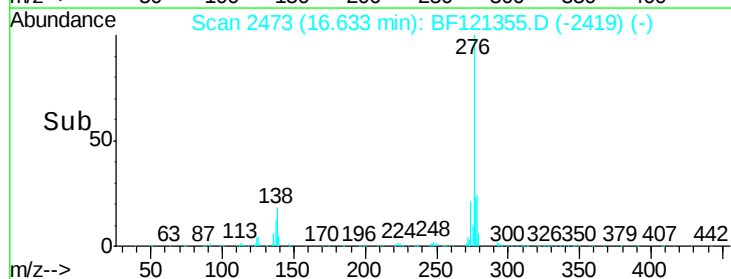
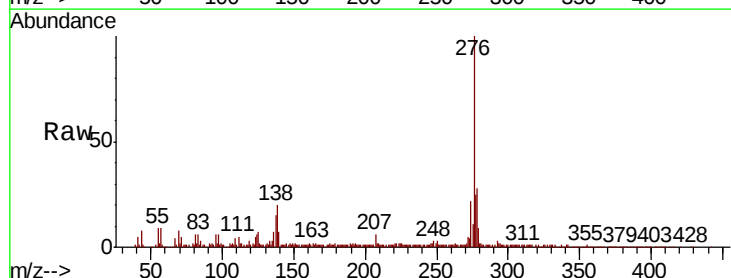
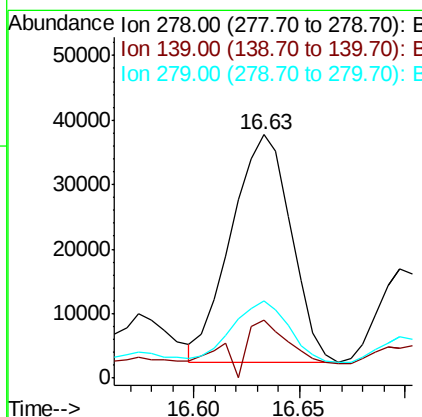
Manual Integrations
APPROVED

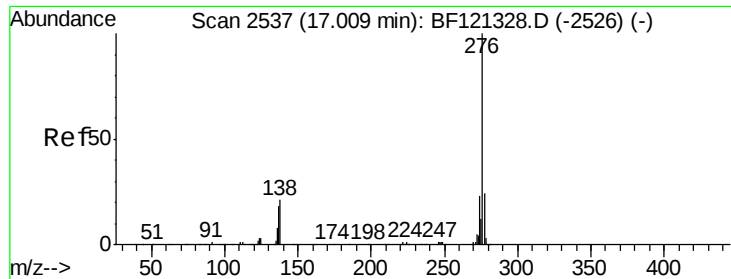
mohammad
8/21/2020 12:50:06 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.247 ng
RT: 16.63 min Scan# 2473
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.6	13.1	19.7#
279	31.6	19.4	29.2#





#92
 Benzo(a,h,i)perylene
 Concen: 13.825 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.03 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion:	276	Resp:	220847
Ion Ratio	Lower	Upper	
276	100		
277	24.5	19.3	28.9
138	22.3	16.8	25.2

Manual Integrations
 APPROVED

mohammad
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