

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121707.D
 Acq On : 28 Sep 2020 12:32
 Operator : JU/CG
 Sample : L4152-03DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Manual Integrations
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Quant Time: Sep 28 13:52:34 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 11:40:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	173835	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	685192	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	360743	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	677678	20.00	ng	0.00
76) Chrysene-d12	13.96	240	482921	20.00	ng	0.00
86) Perylene-d12	15.40	264	421950	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1004	0.09	ng	0.00
7) Phenol-d6	6.43	99	32261	2.10	ng	-0.01
23) Nitrobenzene-d5	7.35	82	85410	6.69	ng	-0.02
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.15	172	175036	7.35	ng	0.00
79) Terphenyl-d14	12.89	244	189068	7.93	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.10	128	109548	3.029	ng	98
52) Acenaphthene	9.86	154	139870	6.333	ng	99
55) Dibenzofuran	10.03	168	162304	5.218	ng	94
58) Fluorene	10.37	166	164121	6.900	ng	100
71) Phenanthrene	11.35	178	1995795	54.053	ng	100
72) Anthracene	11.39	178	565849	14.851	ng	97
73) Carbazole	11.55	167	235701	6.855	ng	98
75) Fluoranthene	12.53	202	2308637	58.573	ng	99
78) Pyrene	12.76	202	1879421	53.266	ng	99
81) Benzo(a)anthracene	13.94	228	1023750	33.508	ng	99
83) Chrysene	13.98	228	777726	25.138	ng	97
87) Indeno(1,2,3-cd)pyrene	16.82	276	424734	15.457	ng	95
88) Benzo(b)fluoranthene	14.99	252	900178m	31.912	ng	
89) Benzo(k)fluoranthene	15.00	252	296453m	11.477	ng	
90) Benzo(a)pyrene	15.34	252	616869	25.727	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	106570m	4.659	ng	
92) Benzo(g,h,i)perylene	17.24	276	381840	16.982	ng	98

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

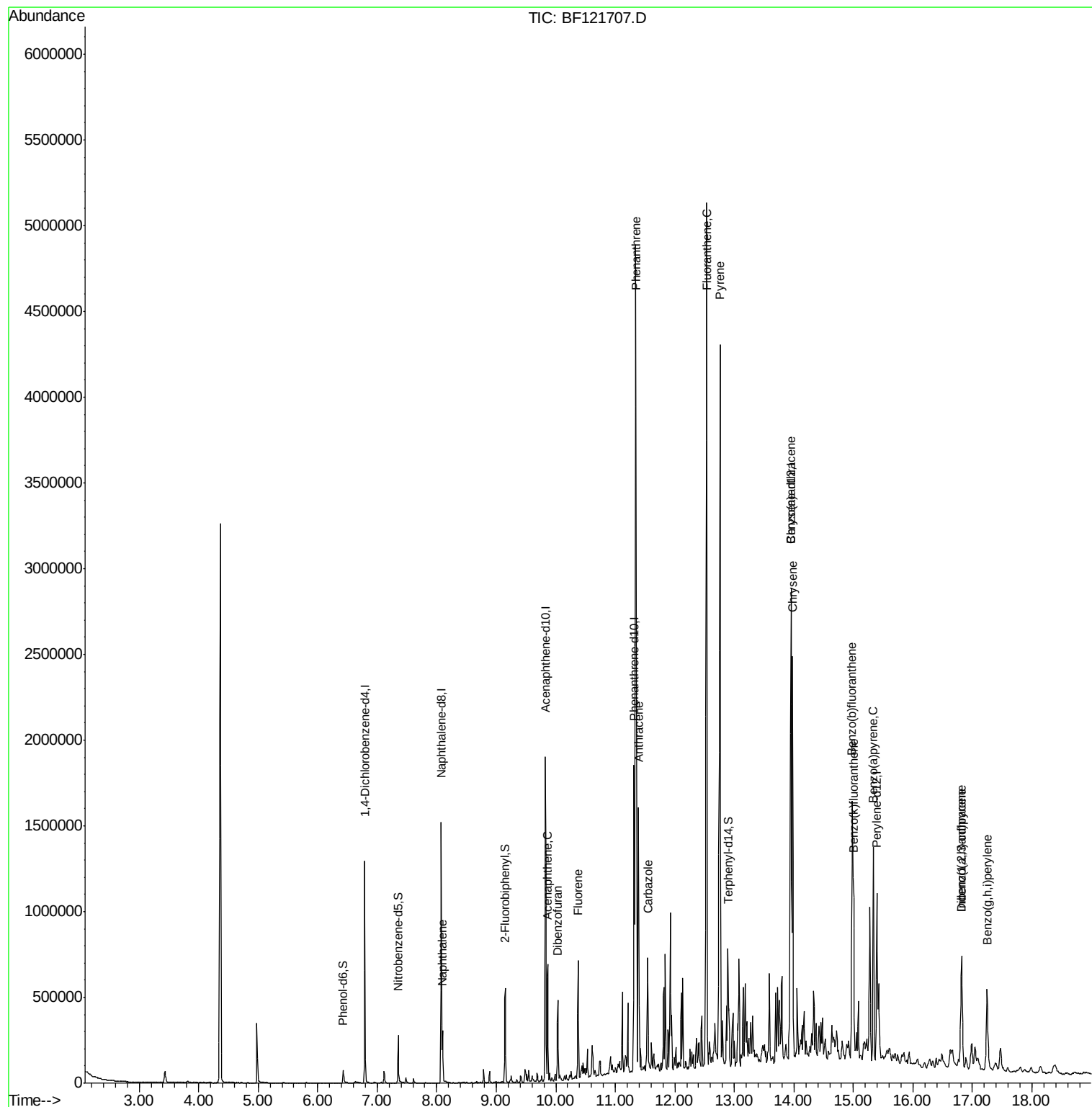
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
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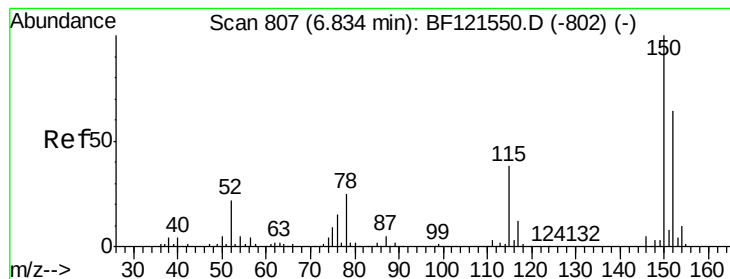
Instrument :
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Quant Time: Sep 28 13:52:34 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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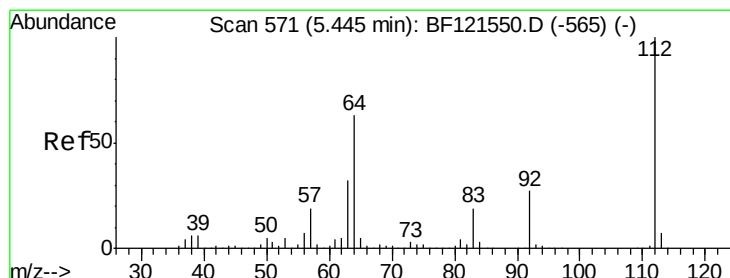
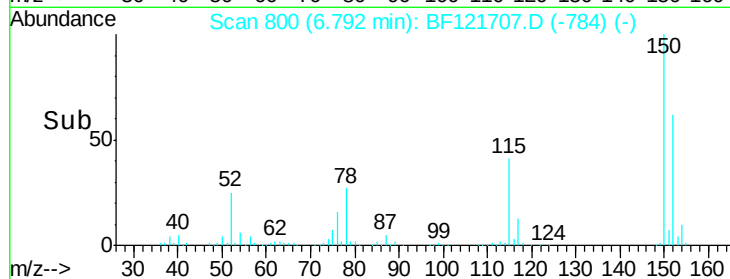
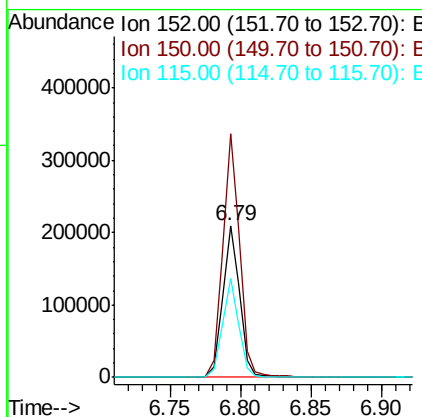
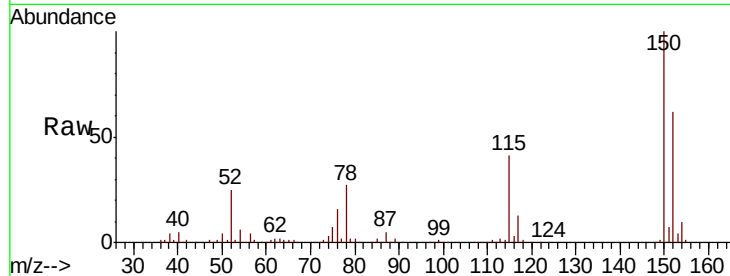
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	122.6	184.0
115	65.0	47.1	70.7

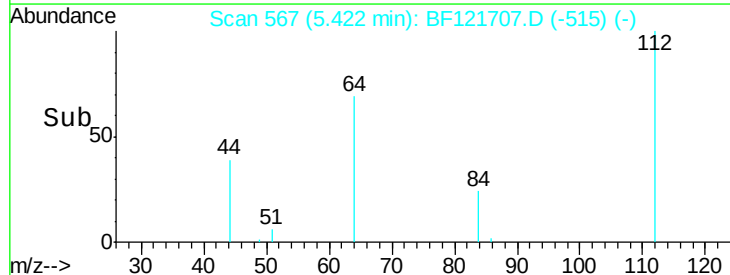
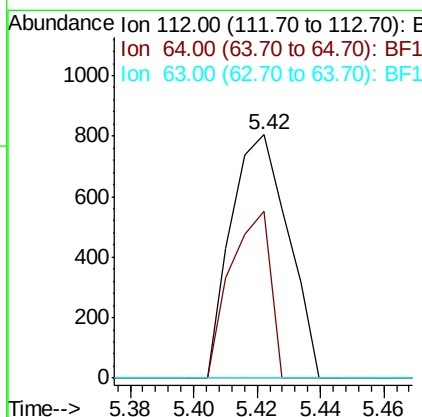
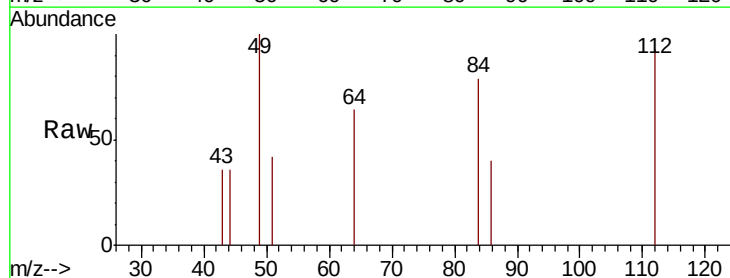
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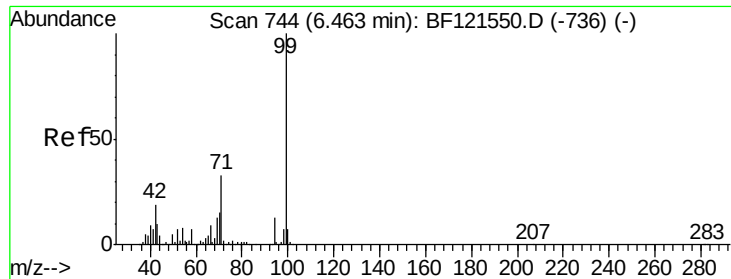
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#5
 2-Fluorophenol
 Concen: 0.086 ng
 RT: 5.42 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.7	49.5	74.3
63	0.0	25.4	38.0





#7

Phenol-d6

Concen: 2.102 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

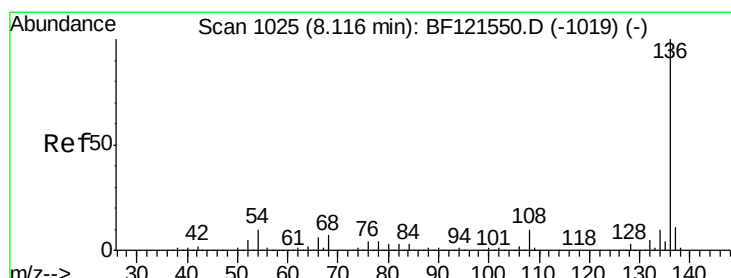
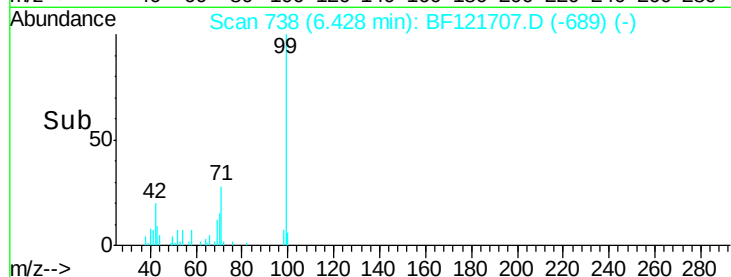
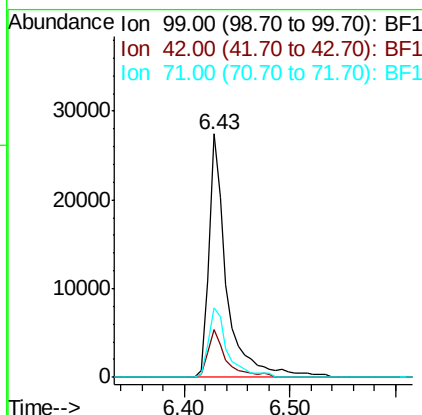
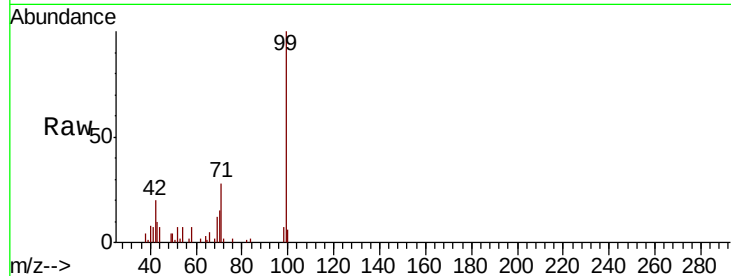
ClientSampleId :

WR-PILE-5-7DL

Tot Ion:	99	Resp:	32261
Ion Ratio	Lower	Upper	
99	100		
42	19.6	16.1	24.1
71	28.4	27.6	41.4

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#21

Naphthalene-d8

Concen: 20.000 ng

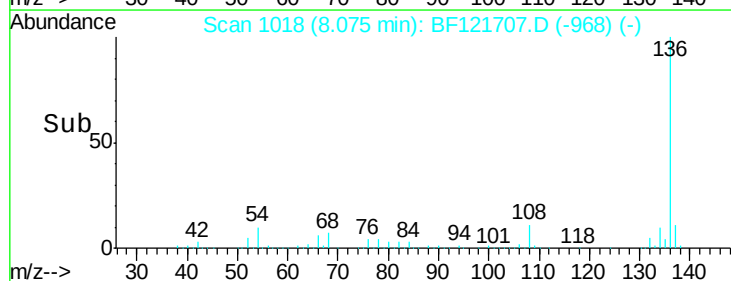
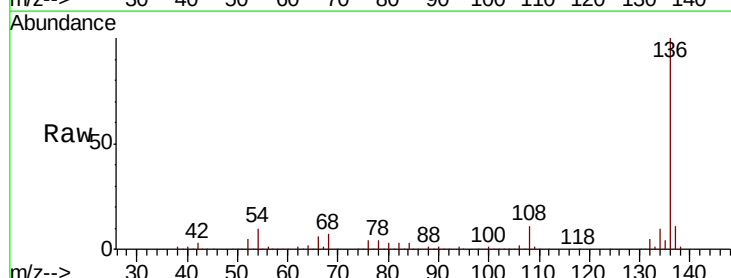
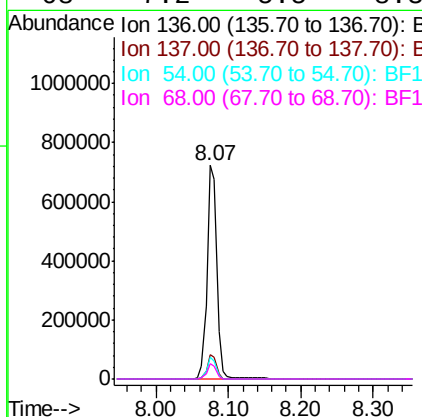
RT: 8.07 min Scan# 1018

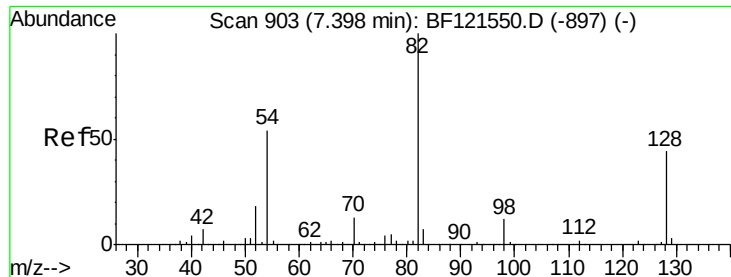
Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Tgt Ion:	136	Resp:	685192
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.8	13.2
54	10.0	7.5	11.3
68	7.2	5.5	8.3





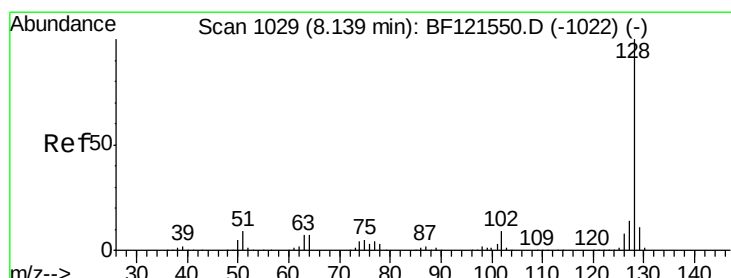
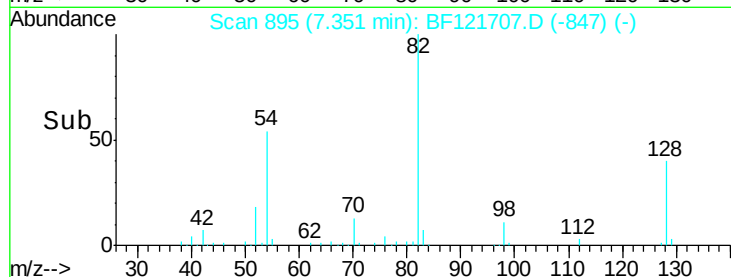
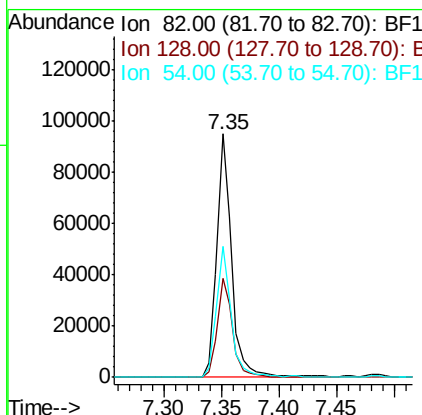
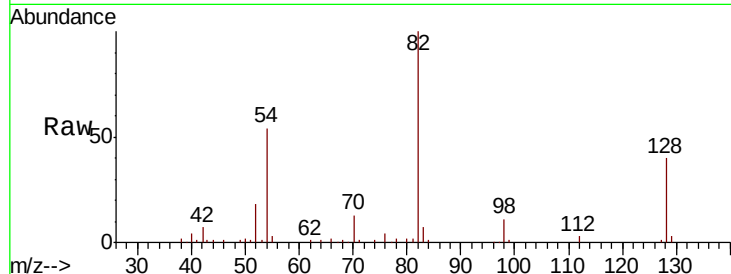
#23
Nitrobenzene-d5
Concen: 6.693 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion	82	Resp	85410
Ion Ratio	100	Lower	Upper
128	40.5	35.8	53.6
54	53.9	42.6	63.8

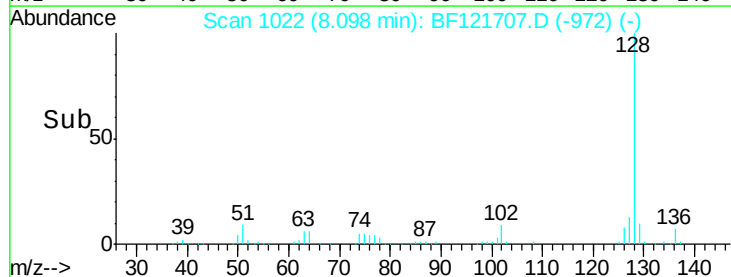
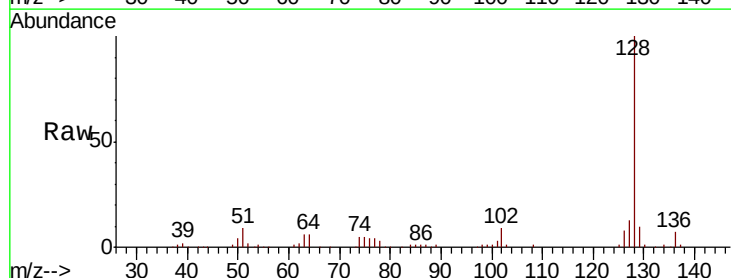
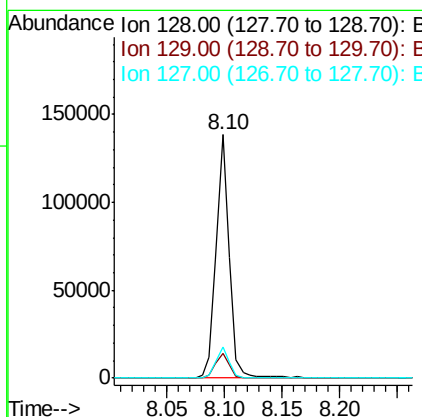
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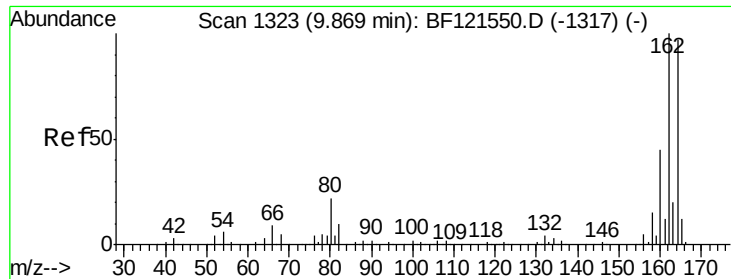
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#31
Naphthalene
Concen: 3.029 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	128	Resp	109548
Ion Ratio	100	Lower	Upper
129	10.4	9.1	13.7
127	13.0	10.8	16.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

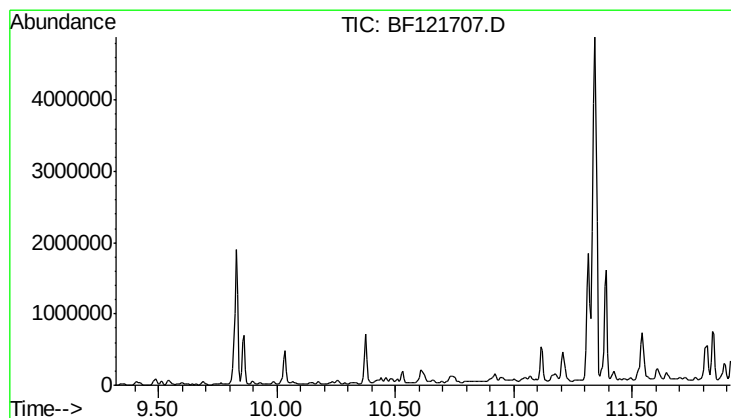
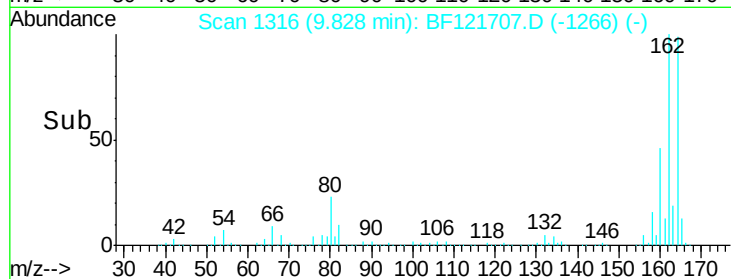
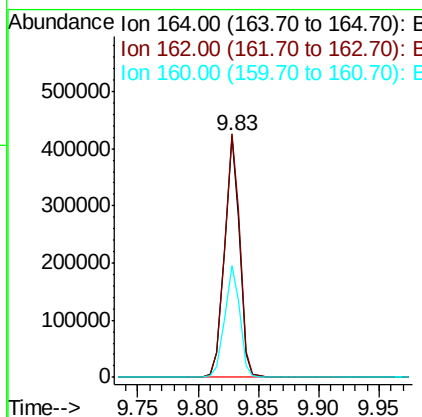
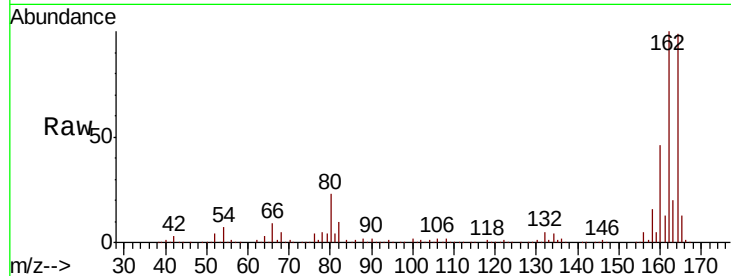
ClientSampled :

WR-PILE-5-7DL

Tot Ion:	164	Resp:	360743
Ion Ratio	Lower	Upper	
164	100		
162	101.0	82.1	123.1
160	46.1	36.8	55.2

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#42

2,4,6-Tribromophenol

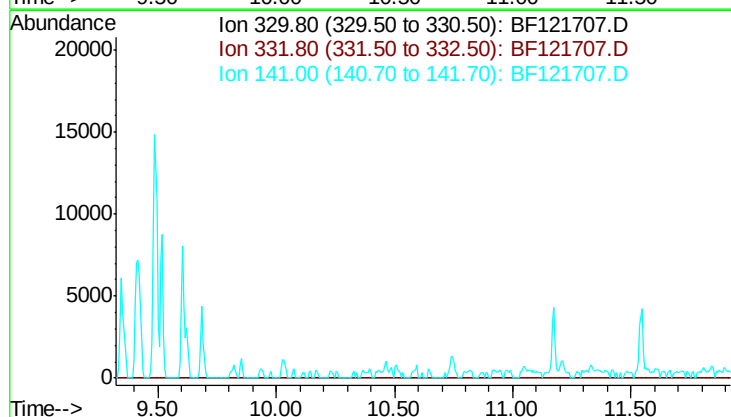
Concen: 0.000 ng

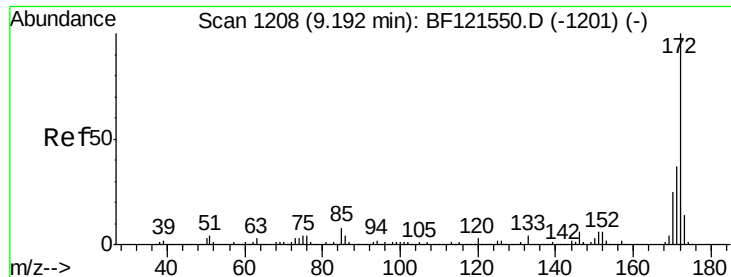
Expected RT: 10.62 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Tgt Ion:	330
Sig	Exp Ratio
330	100
332	95.0
141	27.8





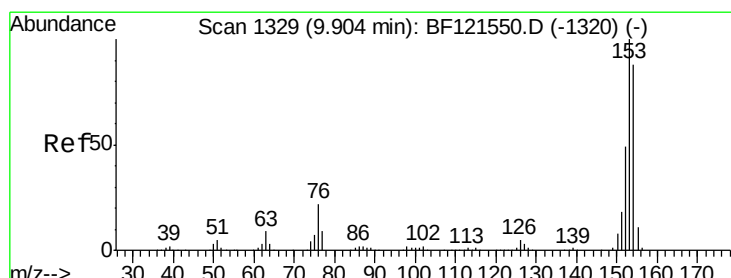
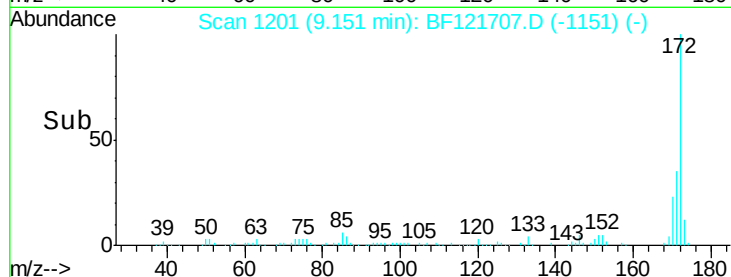
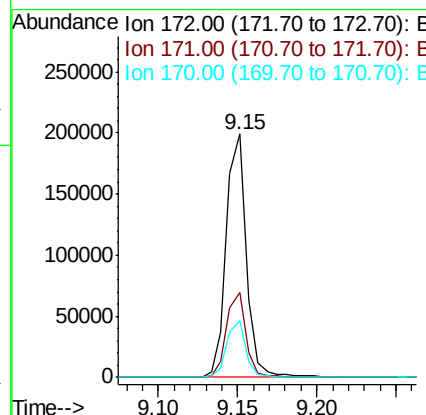
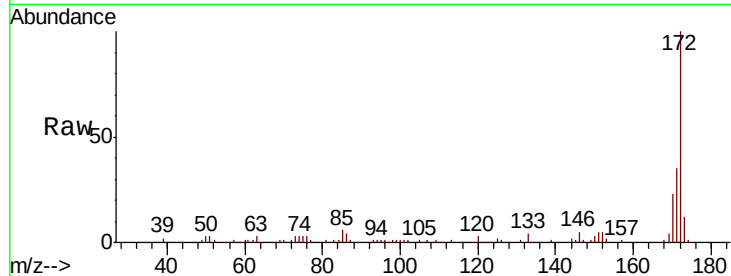
#45
2-Fluorobiphenyl
Concen: 7.349 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampled :
WR-PILE-5-7DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	175036		
171	34.9		29.0	43.6
170	23.2		19.5	29.3

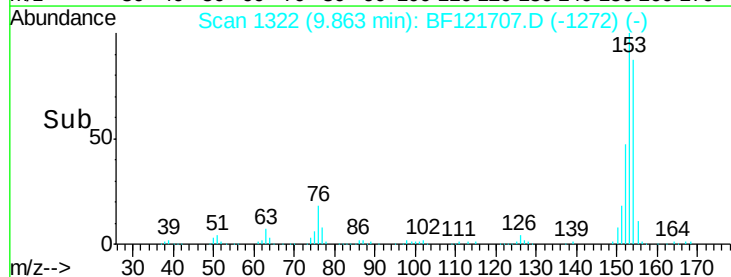
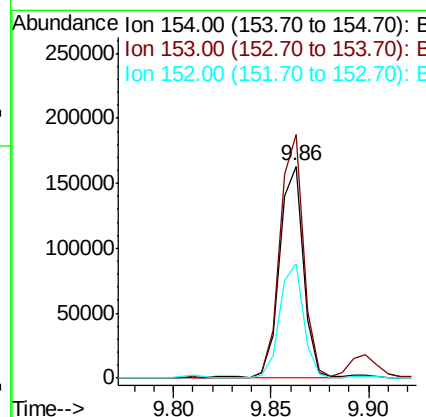
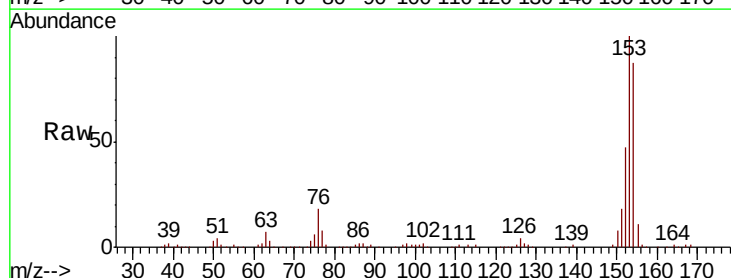
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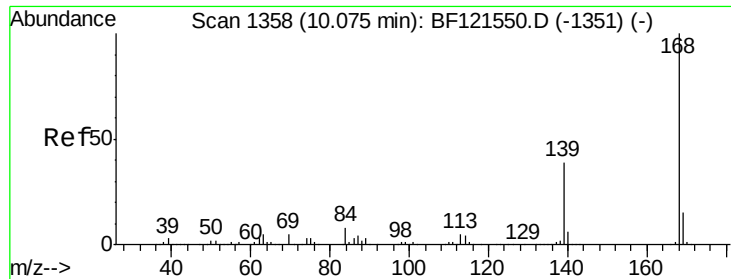
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#52
Acenaphthene
Concen: 6.333 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	139870		
153	114.8		91.7	137.5
152	54.0		44.0	66.0





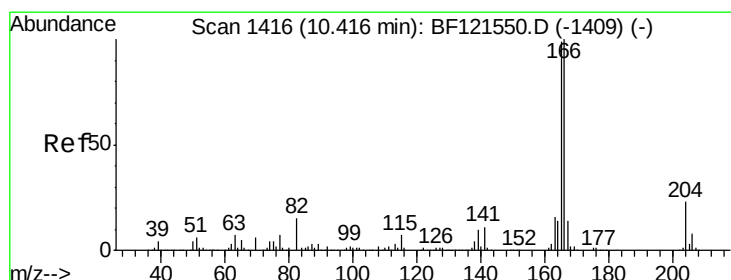
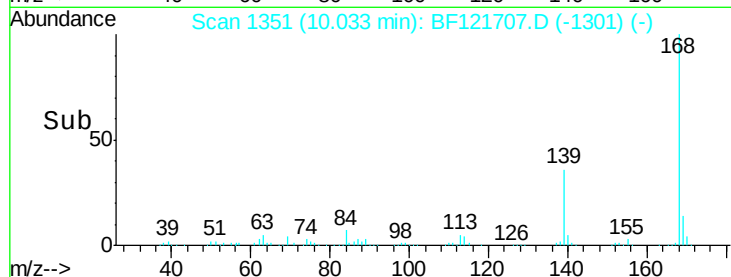
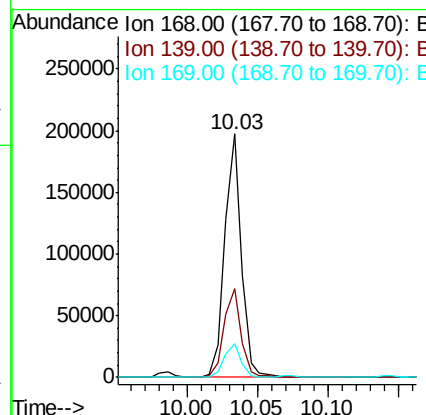
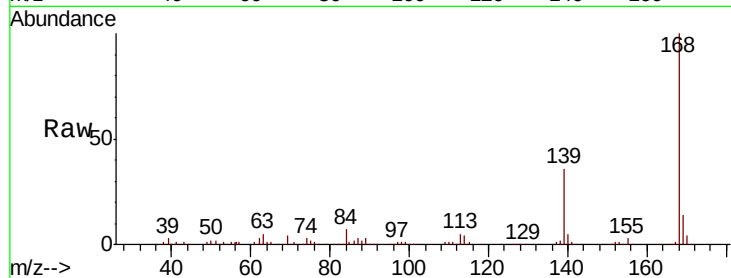
#55
Dibenzenofuran
Concen: 5.218 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.4	32.6	49.0
169	14.0	11.7	17.5

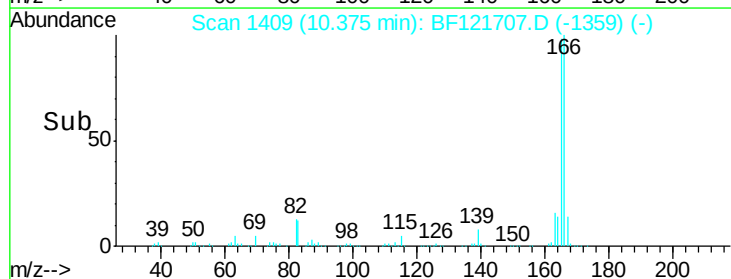
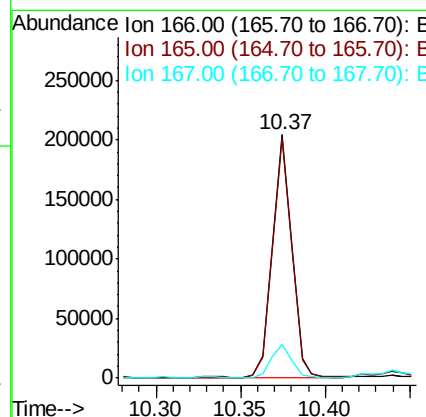
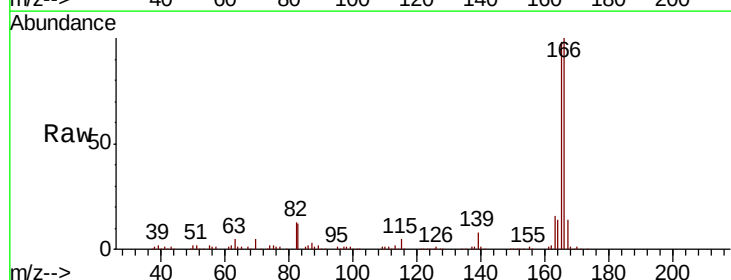
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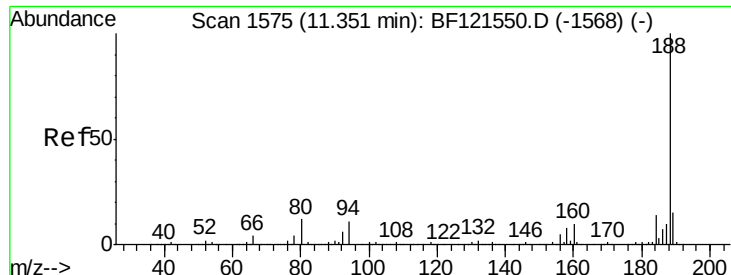
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#58
Fluorene
Concen: 6.900 ng
RT: 10.37 min Scan# 1409
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.8	118.2
167	13.7	11.0	16.4





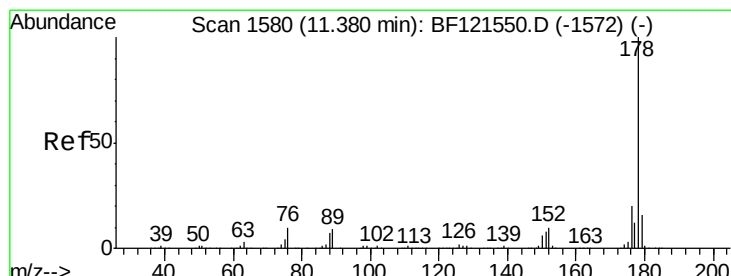
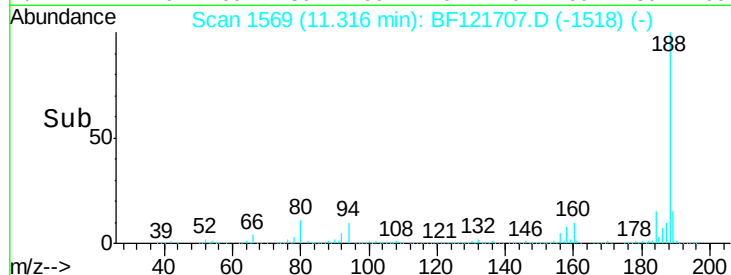
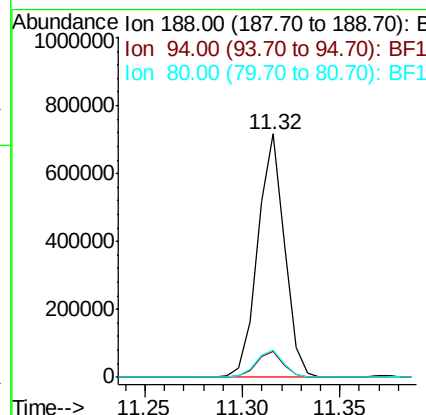
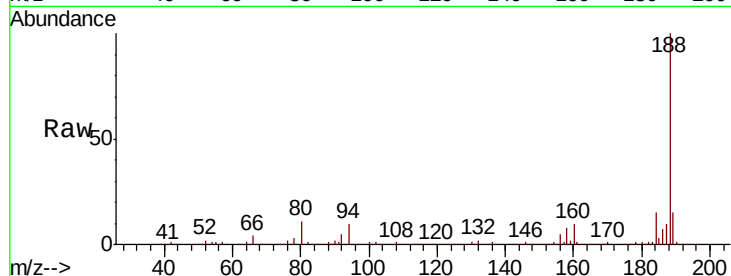
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.4	12.6
80	11.1	9.3	13.9

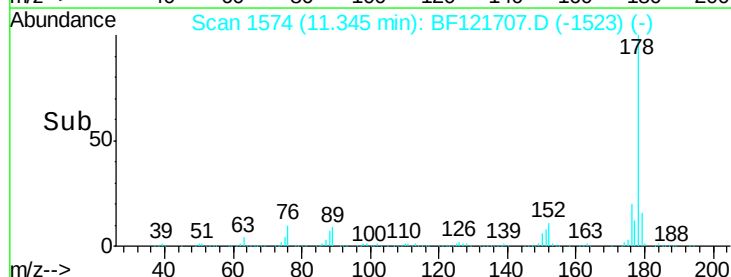
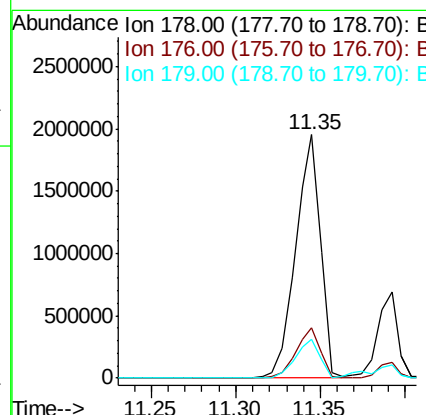
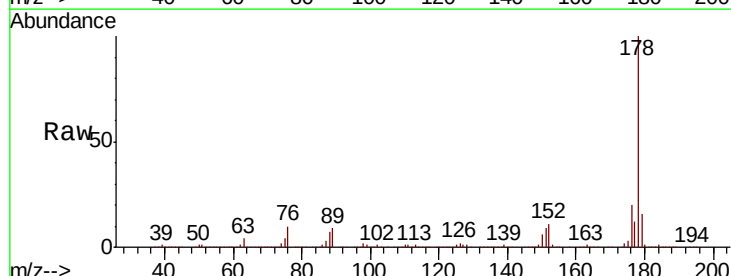
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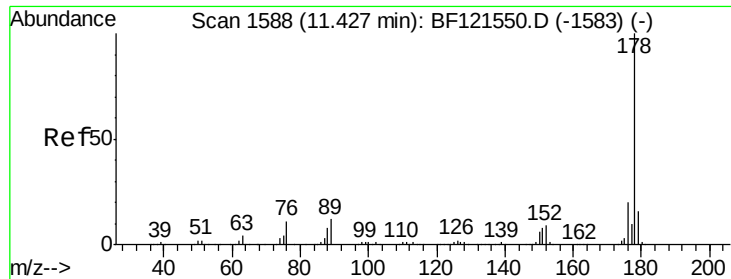
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#71
 Phenanthrene
 Concen: 54.053 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	15.9	12.5	18.7





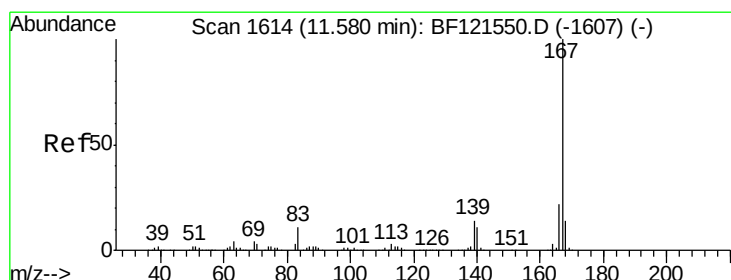
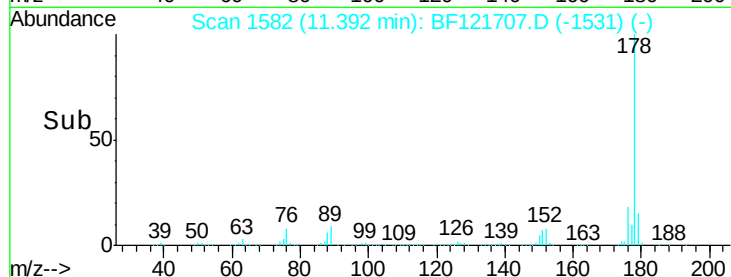
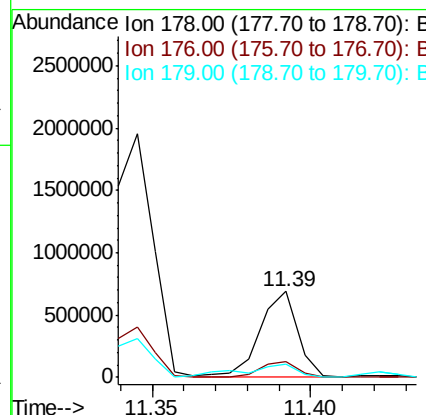
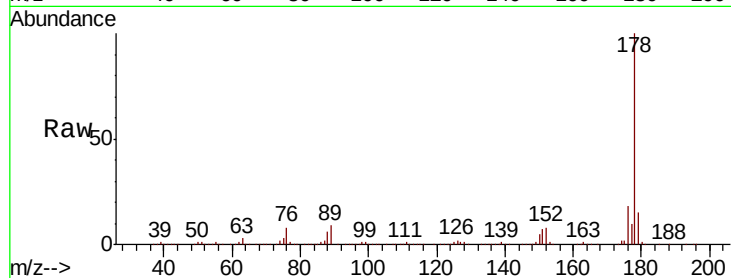
#72
 Anthracene
 Concen: 14.851 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.6	23.4
179	15.0	12.7	19.1

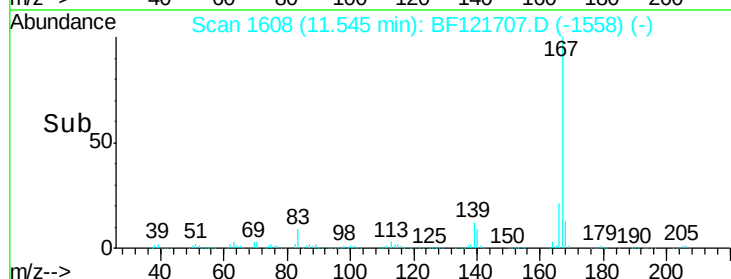
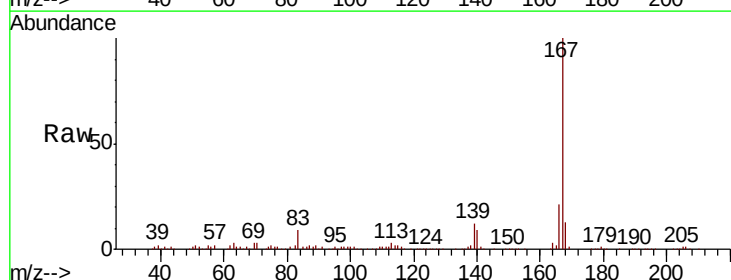
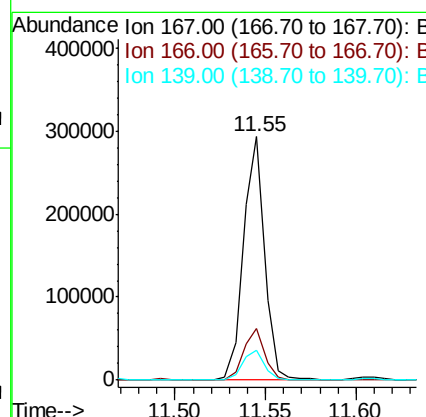
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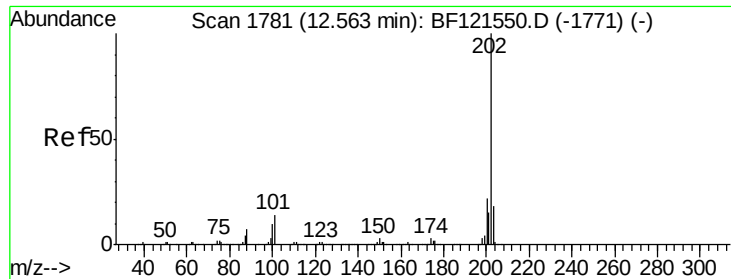
mohammad
 9/29/2020 3:24:14 PM



#73
 Carbazole
 Concen: 6.855 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	12.4	10.7	16.1





#75

Fluoranthene

Concen: 58.573 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

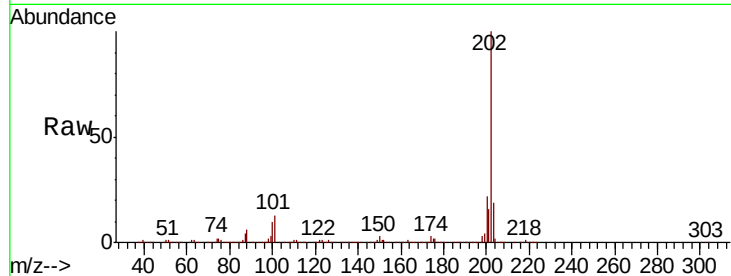
ClientSampleId :

WR-PILE-5-7DL

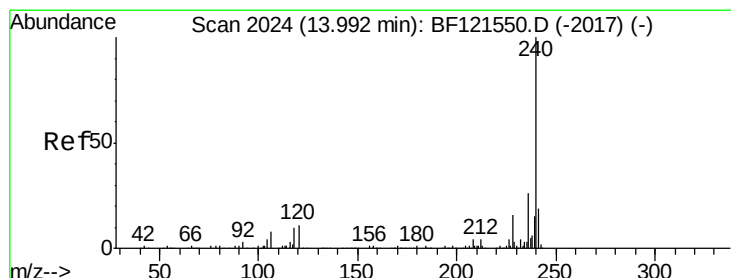
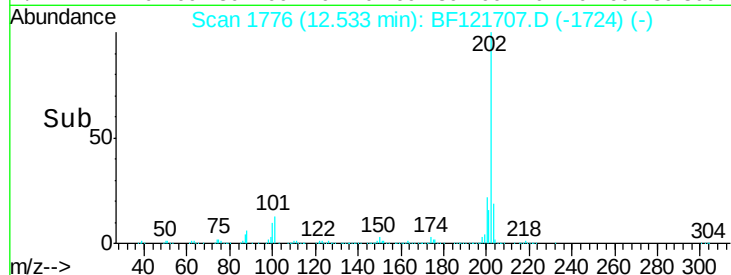
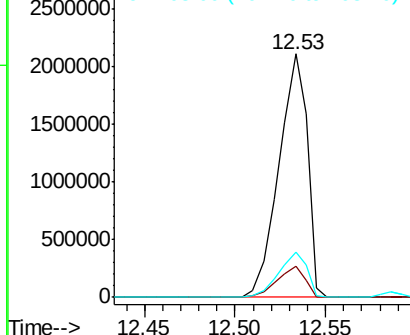
Tot Ion:	202	Resp:	2308637
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	33.7
203	18.5	0.0	38.5

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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

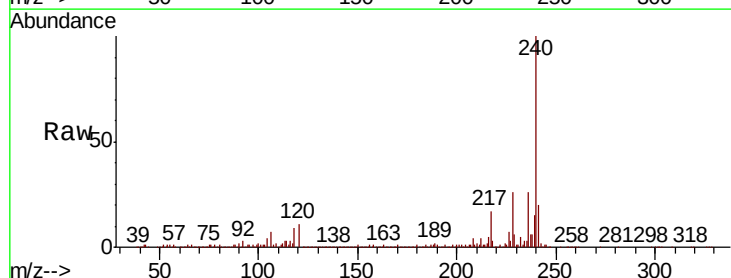
RT: 13.96 min Scan# 2018

Delta R.T. 0.00 min

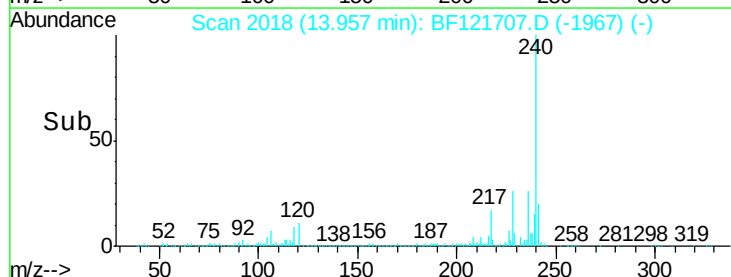
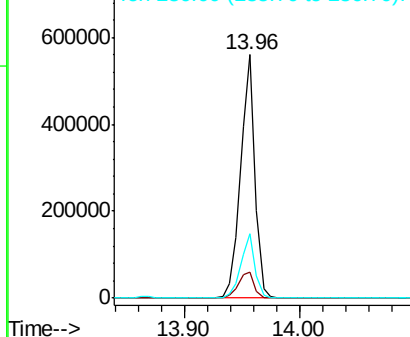
Lab File: BF121707.D

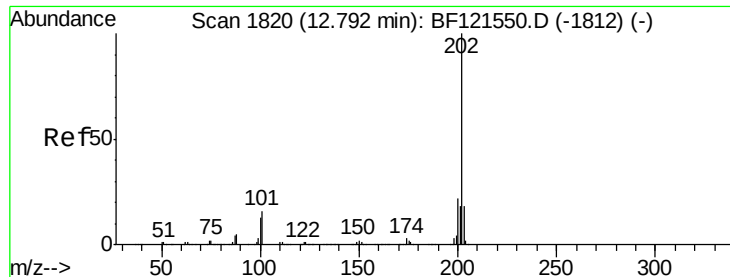
Acq: 28 Sep 2020 12:32

Tgt Ion:	240	Resp:	482921
Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.1	13.7
236	26.2	20.6	30.8



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





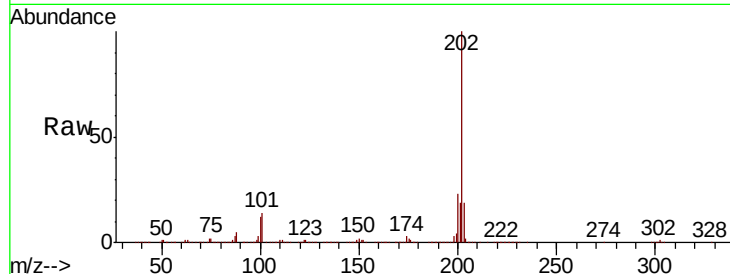
#78
Pvrene
Concen: 53.266 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

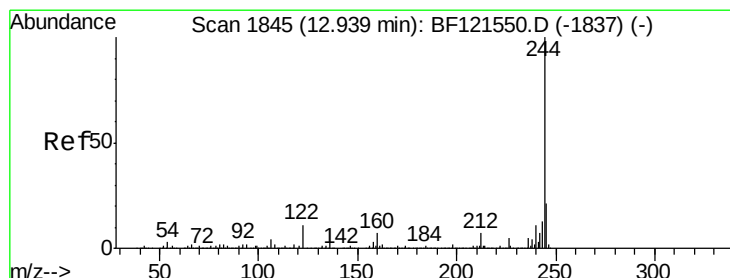
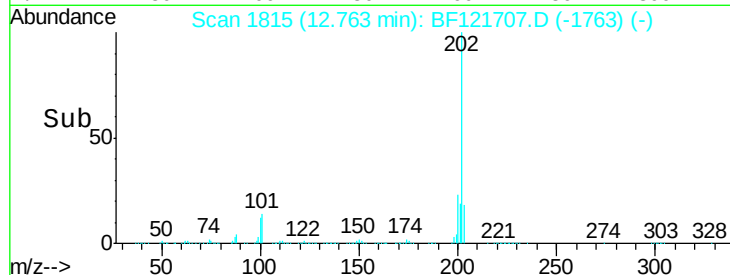
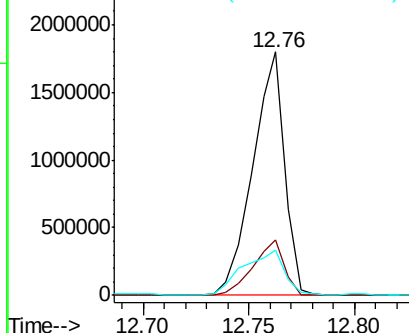
Tot Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.8	26.8
203	18.6	14.3	21.5

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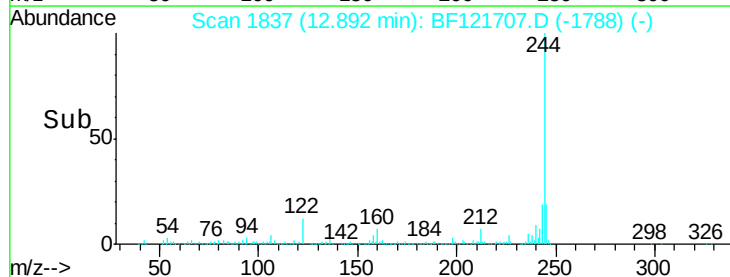
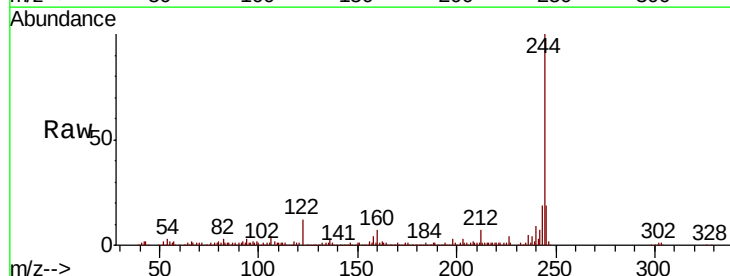
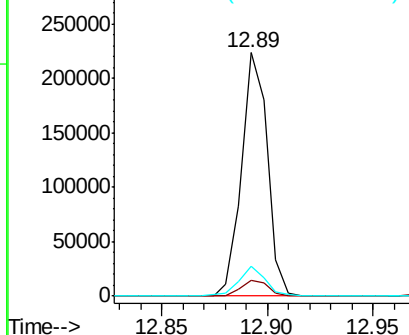
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

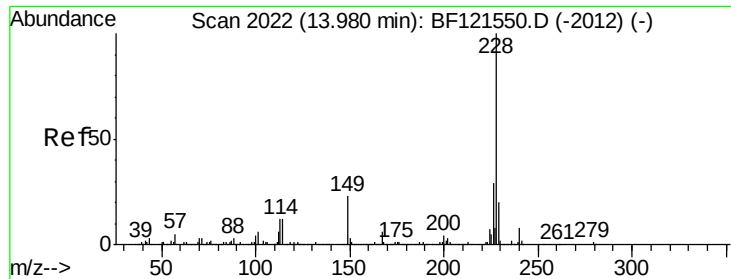


#79
Terphenyl-d14
Concen: 7.932 ng
RT: 12.89 min Scan# 1837
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	12.2	8.0	12.0#

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





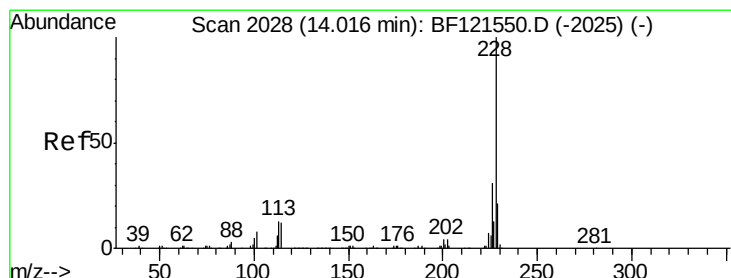
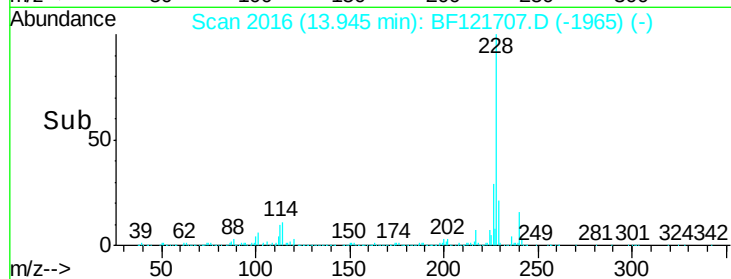
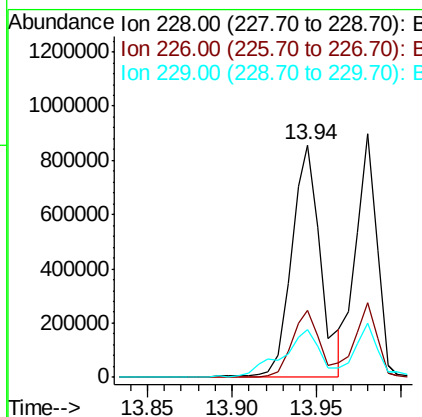
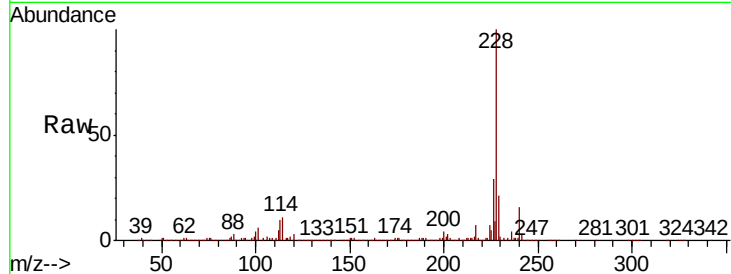
#81
Benzo(a)anthracene
Concen: 33.508 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.00 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.5	33.7
229	20.8	16.2	24.4

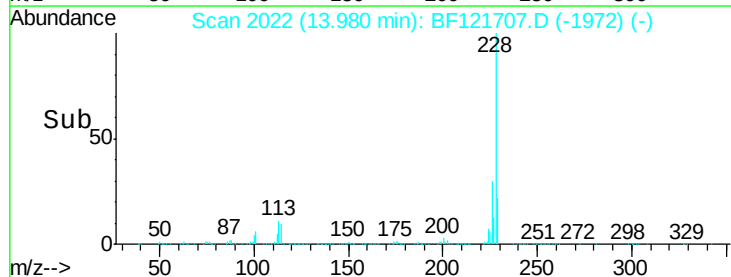
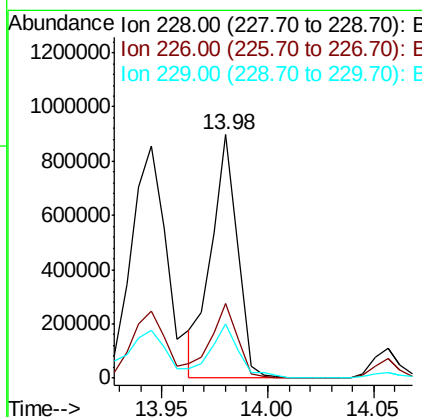
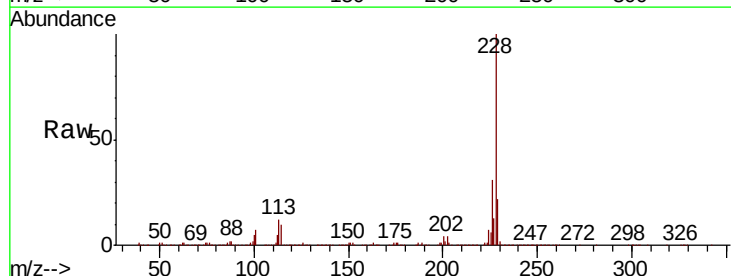
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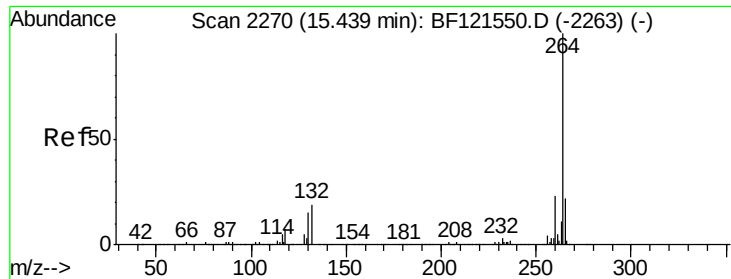
mohammad
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#83
Chrysene
Concen: 25.138 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.4
229	22.2	16.0	24.0





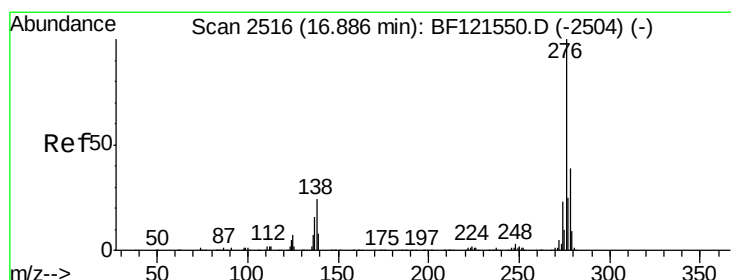
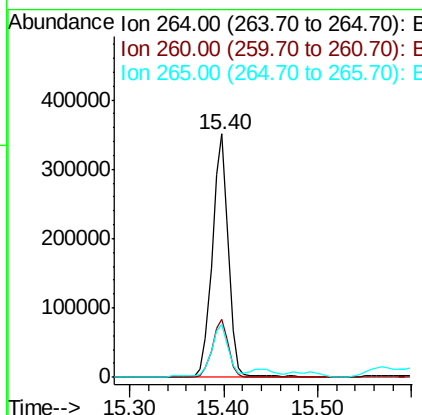
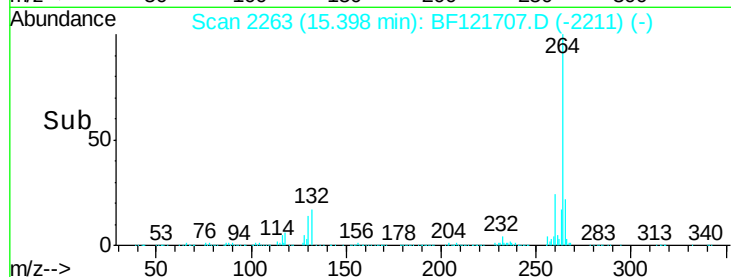
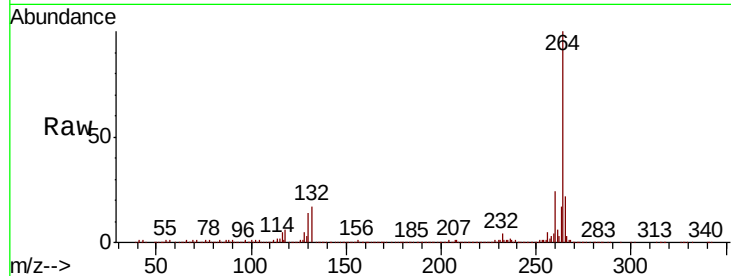
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion:	264	Resp:	421950
Ion Ratio	Lower	Upper	
264	100		
260	23.8	18.4	27.6
265	21.9	17.2	25.8

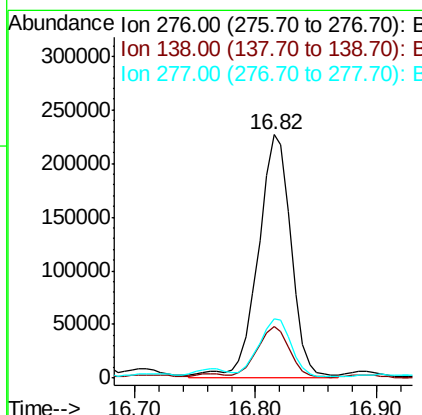
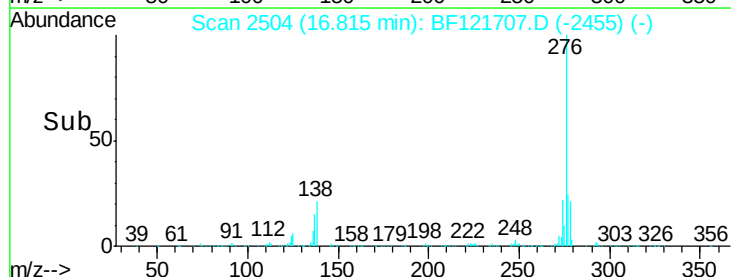
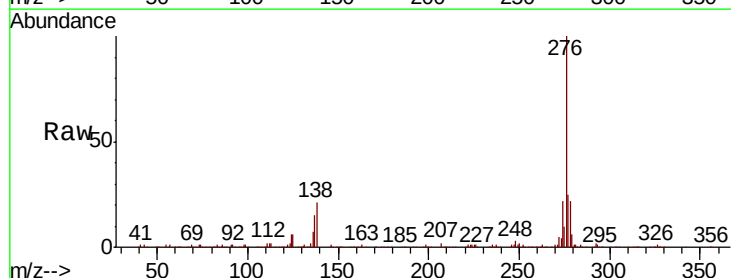
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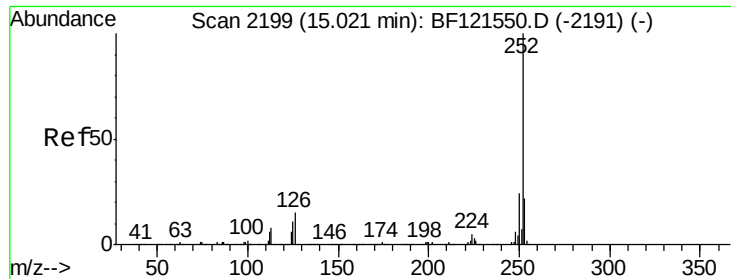
mohammad
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#87
Indeno(1,2,3-cd)pyrene
Concen: 15.457 ng
RT: 16.82 min Scan# 2504
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion:	276	Resp:	424734
Ion Ratio	Lower	Upper	
276	100		
138	20.9	19.5	29.3
277	23.9	20.2	30.4





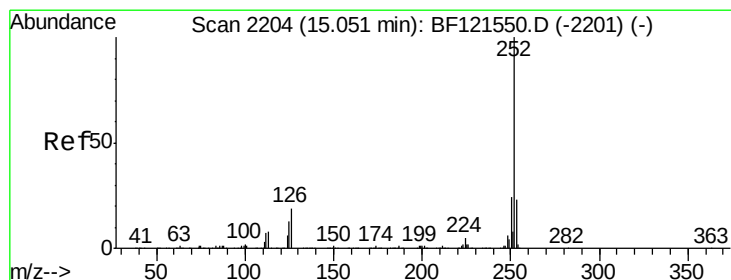
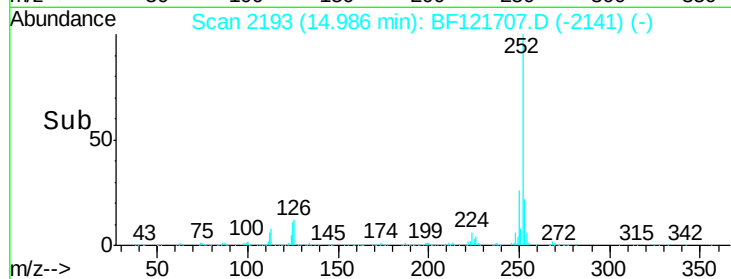
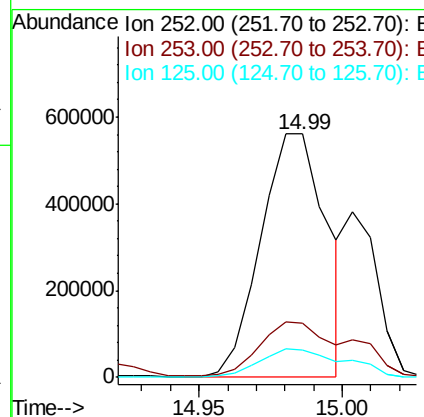
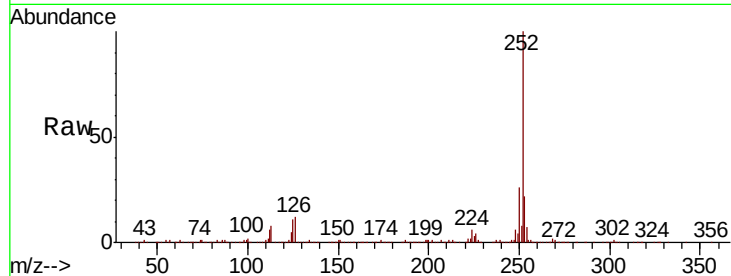
#88
Benzo(b)fluoranthene
Concen: 31.912 ng m
RT: 14.99 min Scan# 2193
Delta R.T. 0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.6
125	11.5	8.6	13.0

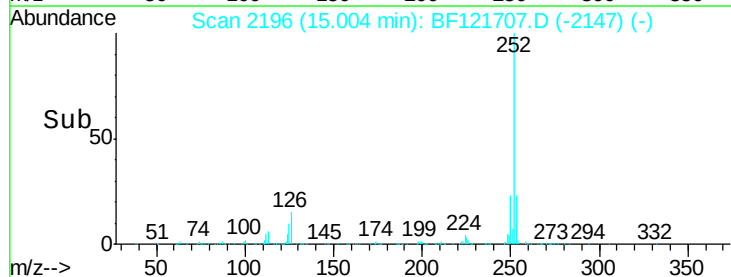
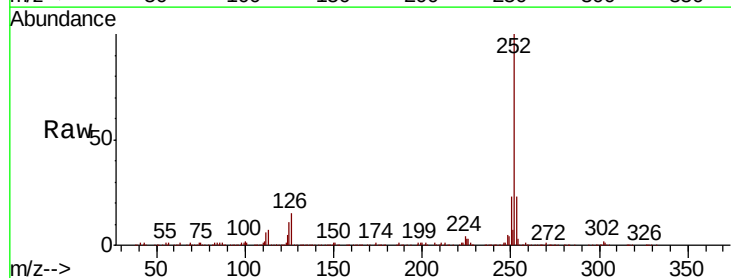
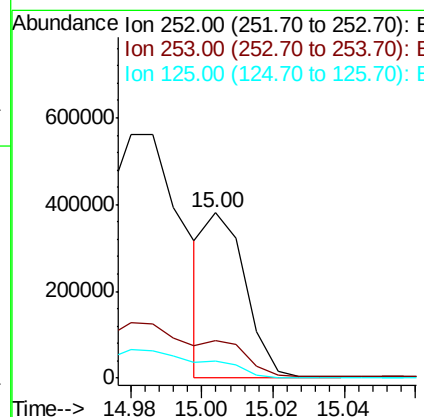
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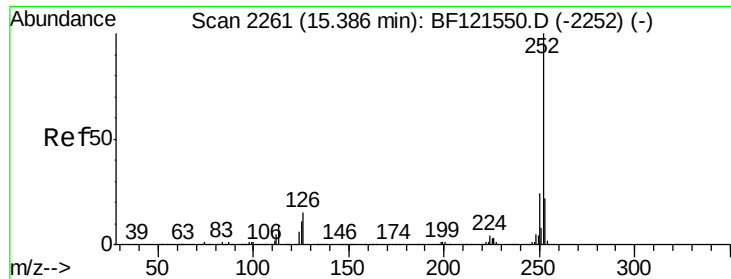
mohammad
9/29/2020 3:24:14 PM



#89
Benzo(k)fluoranthene
Concen: 11.477 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	10.5	7.1	10.7





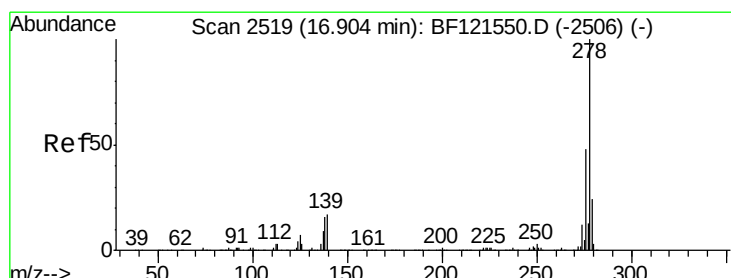
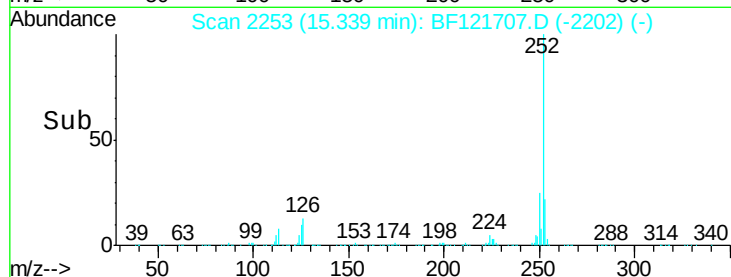
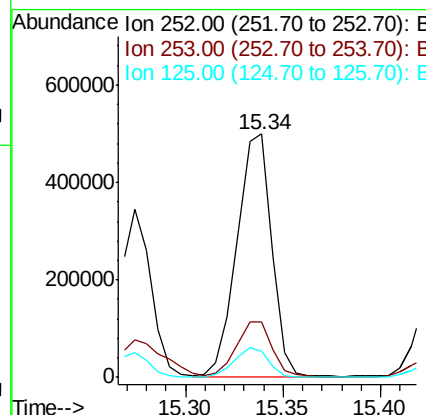
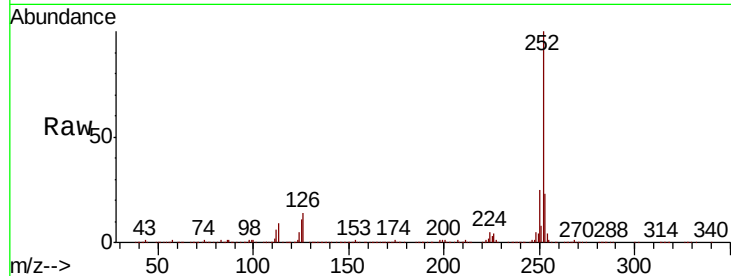
#90
Benzo(a)pyrene
Concen: 25.727 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.00 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.2
125	10.7	9.2	13.8

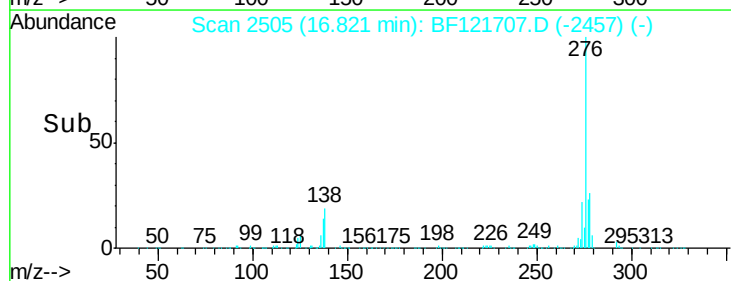
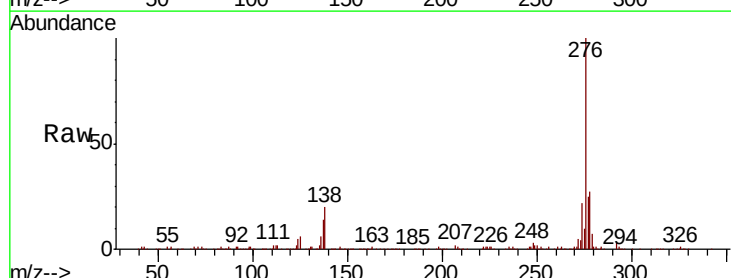
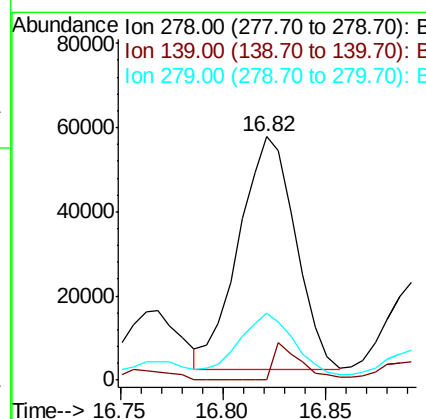
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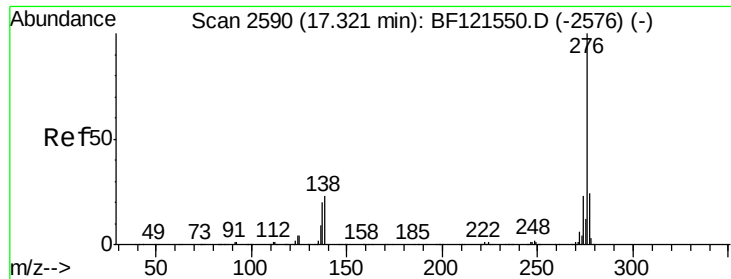
mohammad
9/29/2020 3:24:14 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.659 ng m
RT: 16.82 min Scan# 2505
Delta R.T. -0.02 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.0	19.4#
279	27.6	19.3	28.9





#92
 Benzo(a,h,i)perylene
 Concen: 16.982 ng
 RT: 17.24 min Scan# 2577
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.8	28.2
138	22.1	16.6	25.0

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