

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
 Data File : BF121497.D
 Acq On : 1 Sep 2020 15:29
 Operator : JU/CG
 Sample : L3848-09
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-A

Quant Time: Sep 01 17:07:03 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 28 09:25:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	259095	20.00	ng	-0.01
21) Naphthalene-d8	8.14	136	983754	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	516472	20.00	ng	-0.01
64) Phenanthrene-d10	11.38	188	978769	20.00	ng	0.00
76) Chrysene-d12	14.02	240	742147	20.00	ng	0.00
86) Perylene-d12	15.50	264	737675	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	2262	0.15	ng	-0.01
7) Phenol-d6	6.47	99	27788	1.29	ng	-0.02
23) Nitrobenzene-d5	7.41	82	752717	52.31	ng	-0.02
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.22	172	1469859	45.92	ng	-0.01
79) Terphenyl-d14	12.97	244	1468585	41.65	ng	0.00

Target Compounds

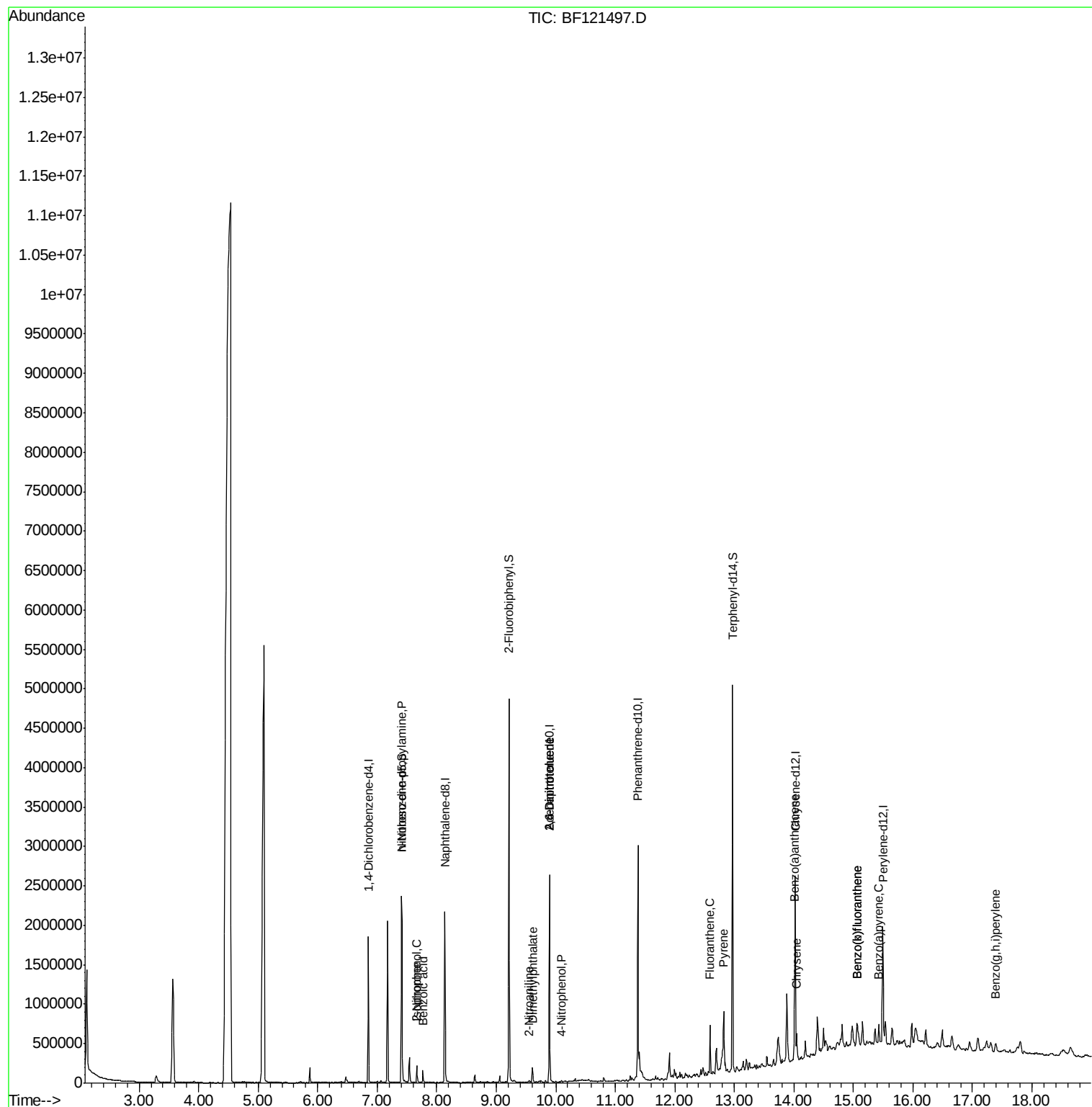
					Qvalue	
9) Benzaldehyde	6.40	77	414	Below Cal	#	39
19) n-Nitroso-di-n-propylamine	7.41	70	99644	8.262 ng	#	79
25) Isophorone	7.67	82	81402	2.515 ng		98
26) 2-Nitrophenol	7.67	139	1167	5.004 ng	#	55
32) Benzoic acid	7.76	122	825	6.787 ng	#	32
48) 2-Nitroaniline	9.55	65	108	6.658 ng	#	5
50) Dimethylphthalate	9.61	163	77678	2.190 ng		97
51) 2,6-Dinitrotoluene	9.89	165	67723	15.242 ng	#	24
56) 4-Nitrophenol	10.10	139	812	7.963 ng	#	6
57) 2,4-Dinitrotoluene	9.89	165	67724	14.296 ng	#	21
75) Fluoranthene	12.59	202	235541	4.351 ng		96
78) Pvrene	12.82	202	244026	4.604 ng		96
81) Benzo(a)anthracene	14.01	228	134876	2.977 ng		96
83) Chrysene	14.04	228	122514	2.703 ng		96
88) Benzo(b)fluoranthene	15.06	252	217371	4.530 ng		96
89) Benzo(k)fluoranthene	15.06	252	217371	4.870 ng		96
90) Benzo(a)pvrene	15.43	252	119861	2.778 ng		97
92) Benzo(g,h,i)perylene	17.39	276	79556	2.223 ng		96

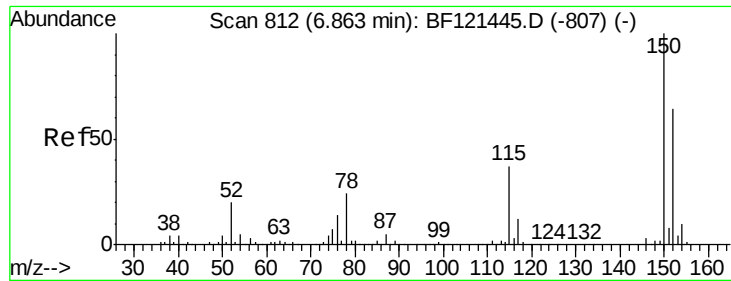
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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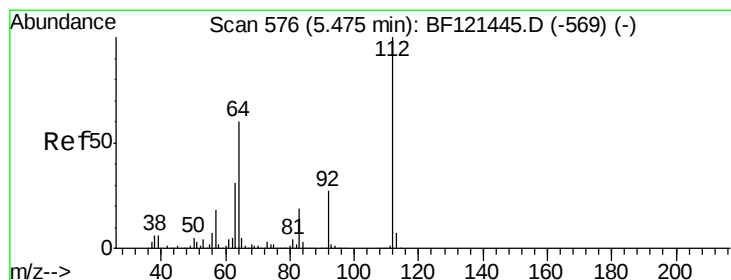
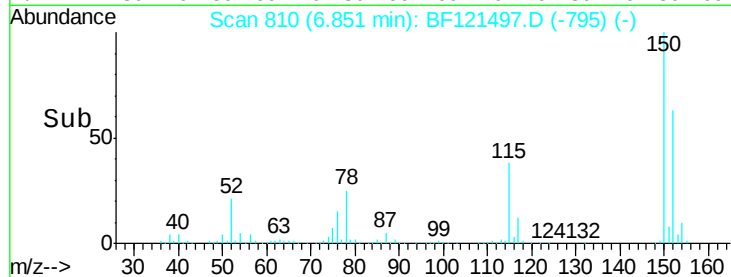
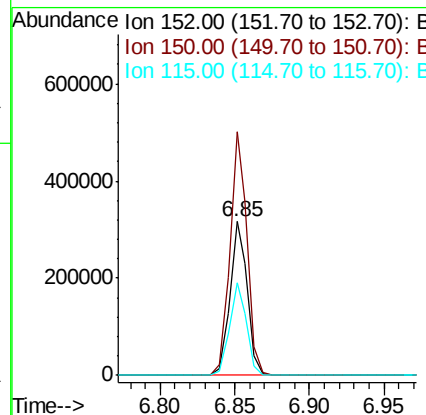
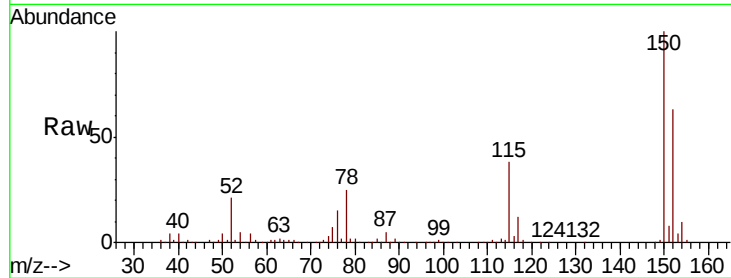


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-A

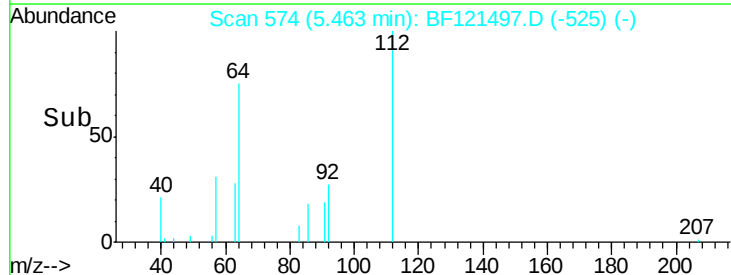
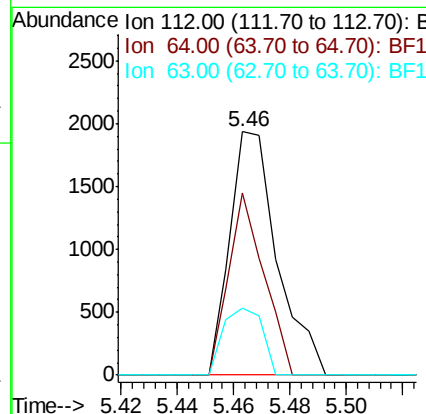
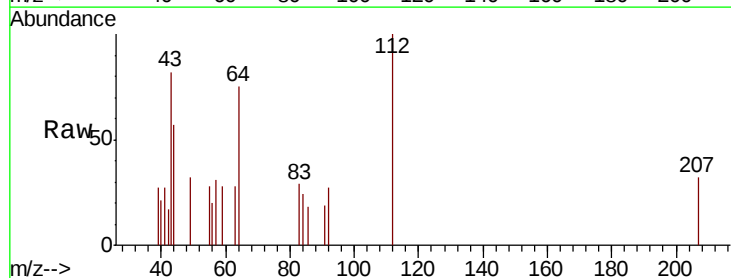
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.8	188.6
115	60.7	46.6	69.8

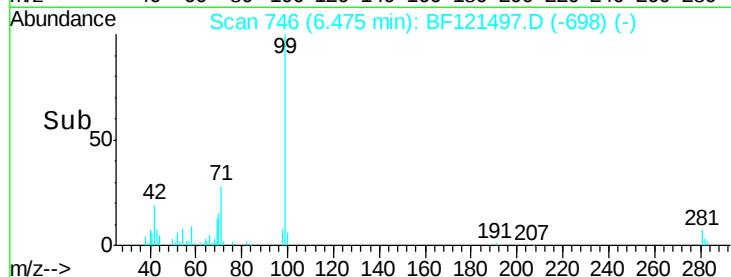
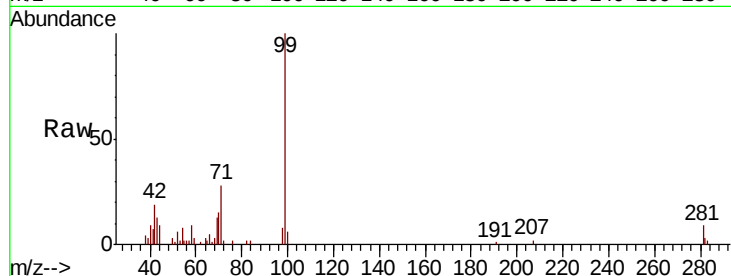
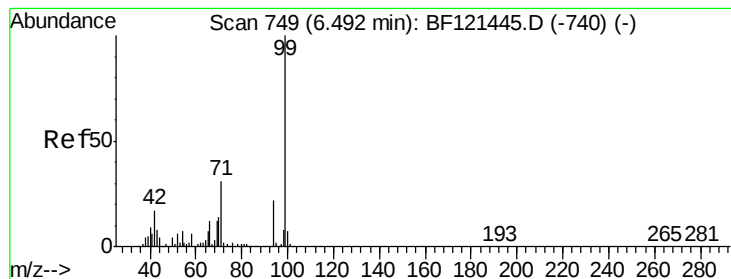


#5

2-Fluorophenol
Concen: 0.146 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	75.0	48.2	72.2#
63	27.7	24.8	37.2





#7

Phenol-d6

Concen: 1.288 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

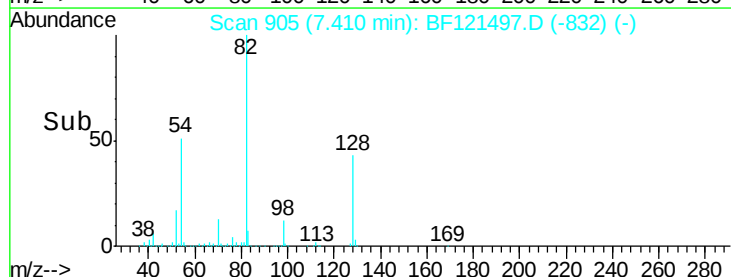
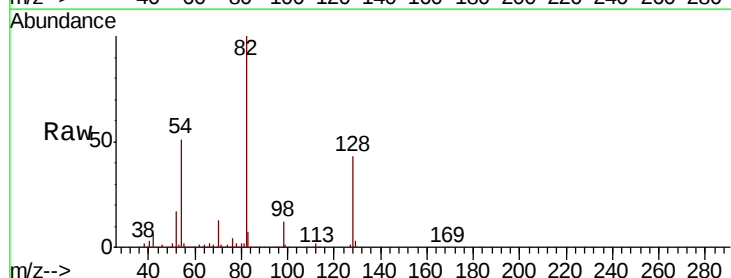
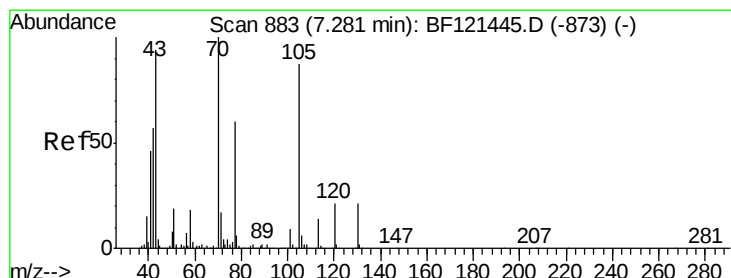
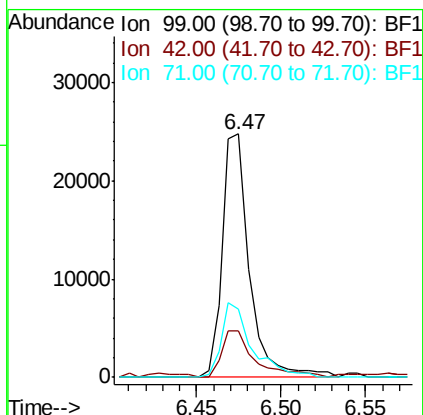
Tot Ion: 99 Resp: 27788

Ion Ratio Lower Upper

99 100

42 19.3 13.5 20.3

71 28.0 24.6 37.0



#19

n-Nitroso-di-n-propylamine

Concen: 8.262 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.13 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Tgt Ion: 70 Resp: 99644

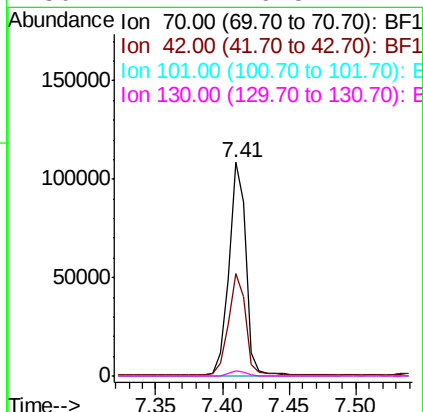
Ion Ratio Lower Upper

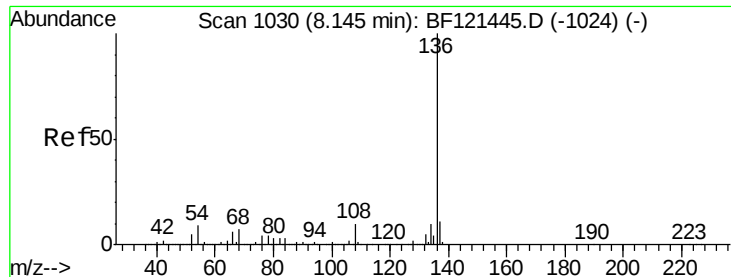
70 100

42 47.7 45.8 68.6

101 0.0 7.5 11.3#

130 2.2 16.5 24.7#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

Tot Ion:136 Resp: 983754

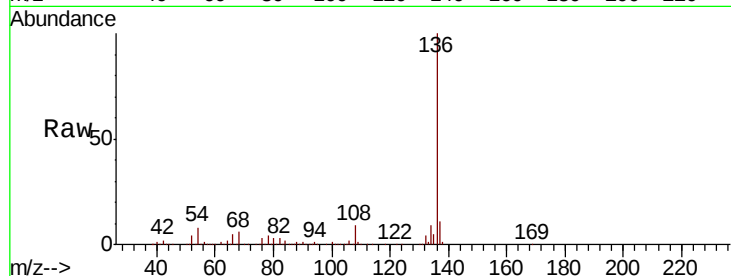
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 7.6 7.0 10.4

68 6.1 5.5 8.3

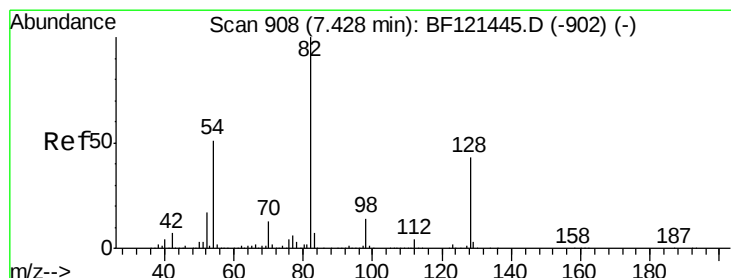
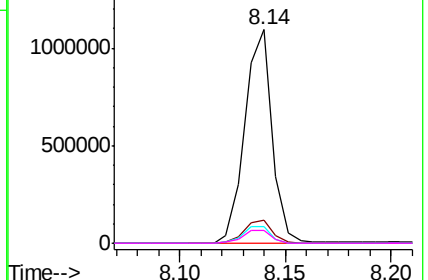
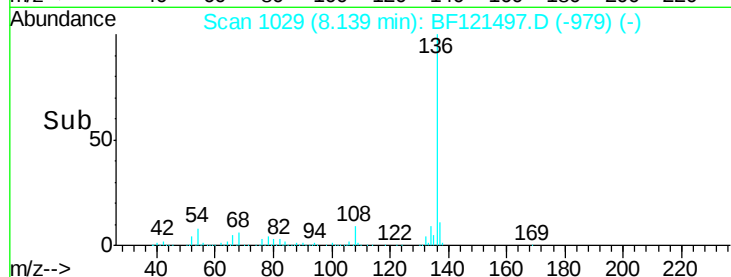


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 52.310 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

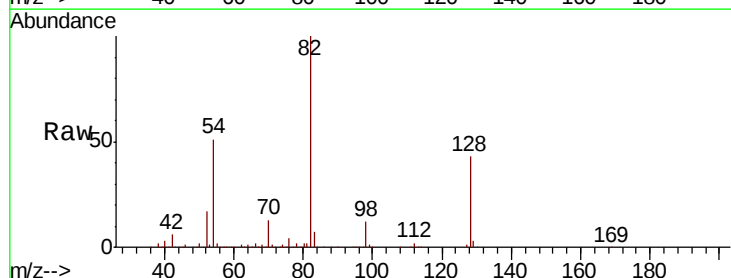
Tgt Ion: 82 Resp: 752717

Ion Ratio Lower Upper

82 100

128 42.9 34.1 51.1

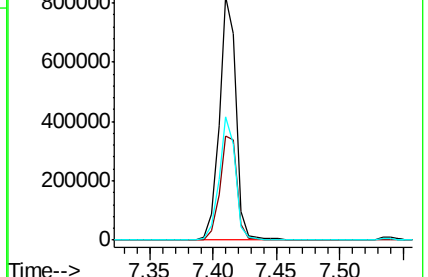
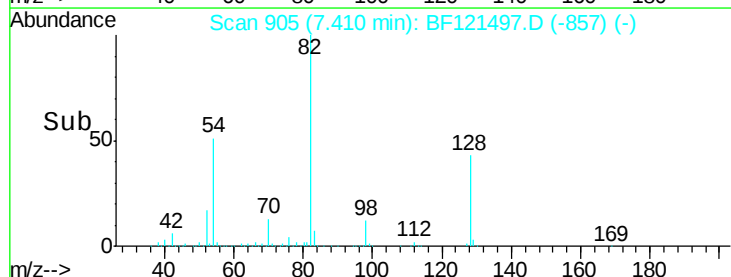
54 50.6 41.0 61.6

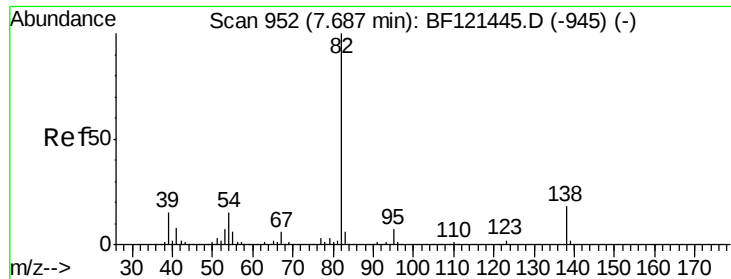


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

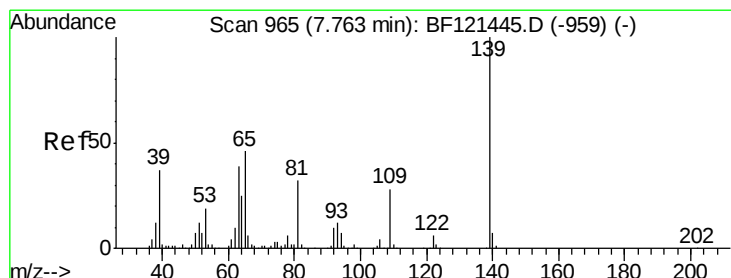
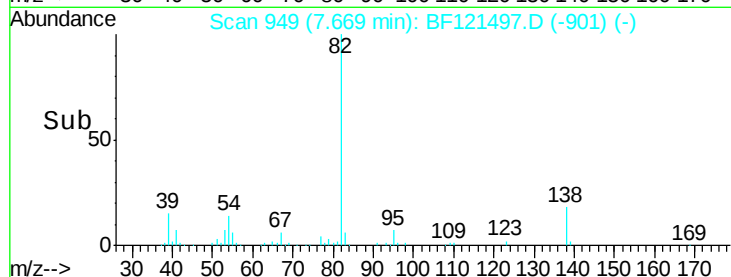
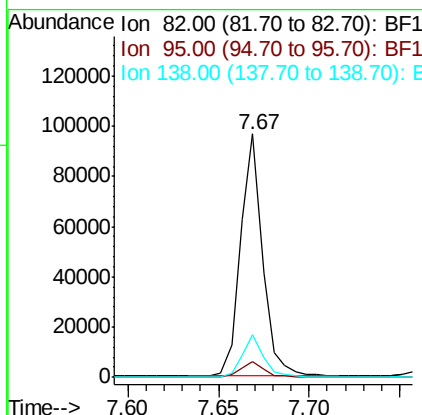
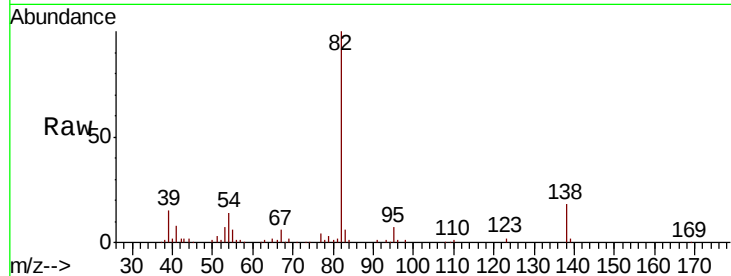




#25
Isophorone
Concen: 2.515 ng
RT: 7.67 min Scan# 949
Delta R.T. -0.02 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

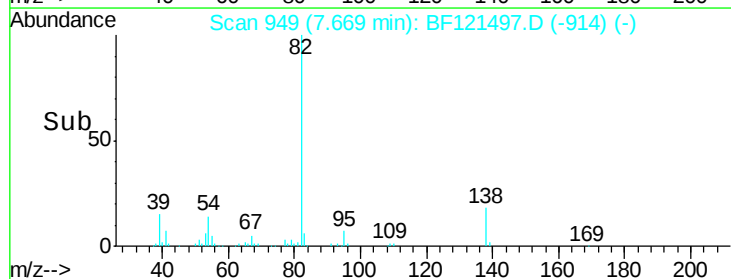
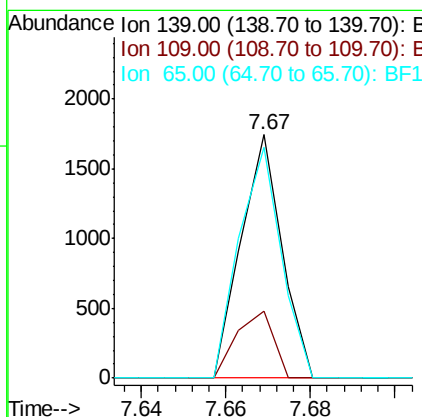
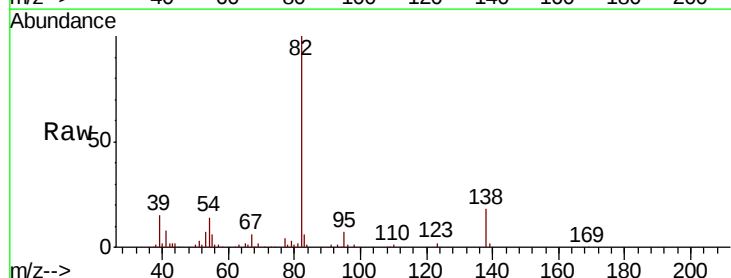
Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-A

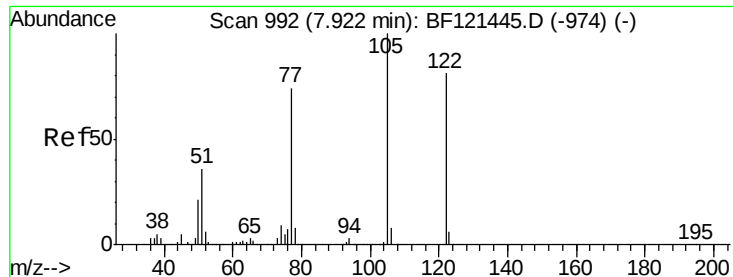
Tot Ion: 82 Resp: 81402
Ion Ratio Lower Upper
82 100
95 6.7 5.6 8.4
138 17.6 14.8 22.2



#26
2-Nitrophenol
Concen: 5.004 ng
RT: 7.67 min Scan# 949
Delta R.T. -0.09 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Tgt Ion: 139 Resp: 1167
Ion Ratio Lower Upper
139 100
109 27.6 22.1 33.1
65 94.6 37.2 55.8#





#32

Benzoic acid

Concen: 6.787 ng

RT: 7.76 min Scan# 965

Delta R.T. -0.16 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

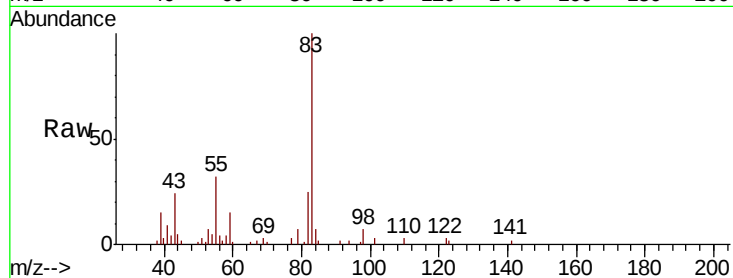
Tot Ion:122 Resp: 825

Ion Ratio Lower Upper

122 100

105 0.0 100.8 140.8#

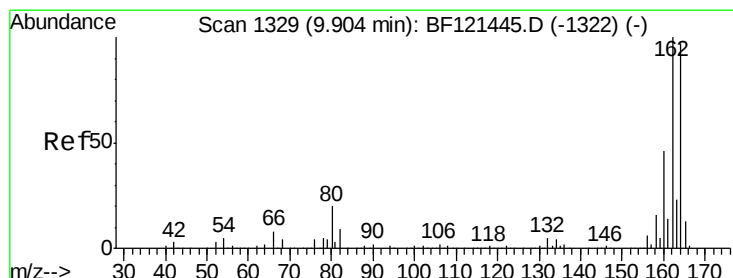
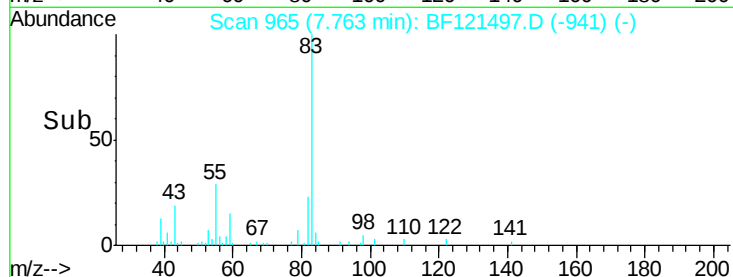
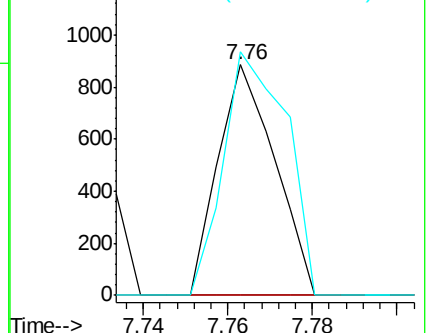
77 105.8 71.5 111.5



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

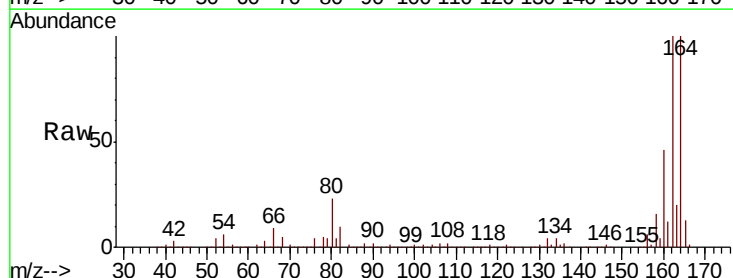
Tgt Ion:164 Resp: 516472

Ion Ratio Lower Upper

164 100

162 100.3 82.4 123.6

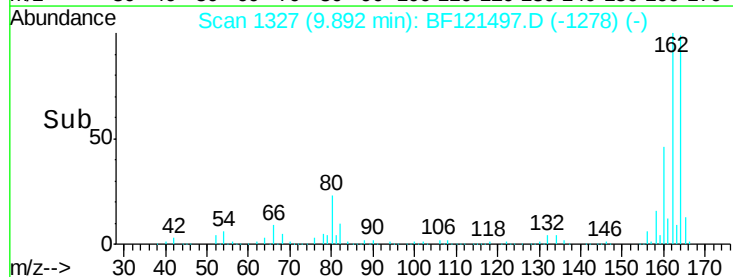
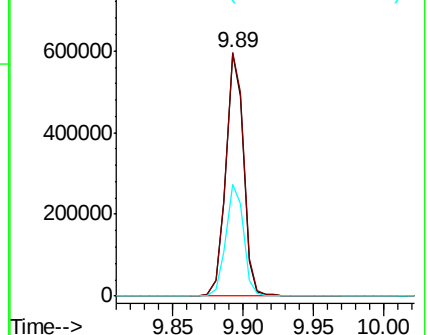
160 45.9 37.6 56.4

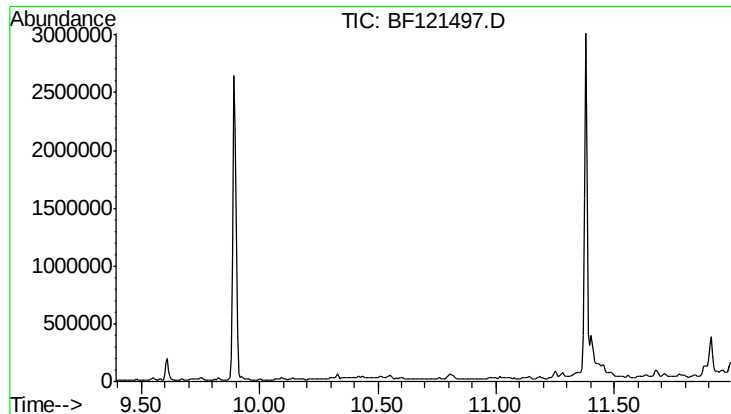


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

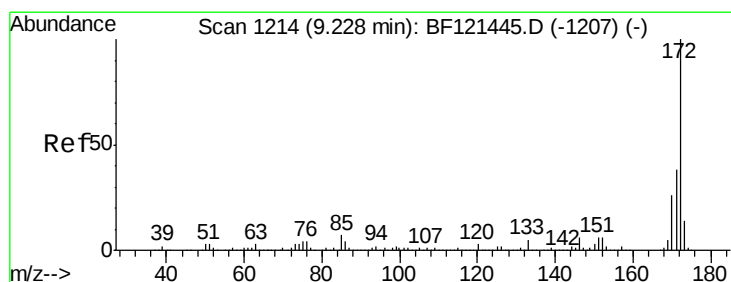
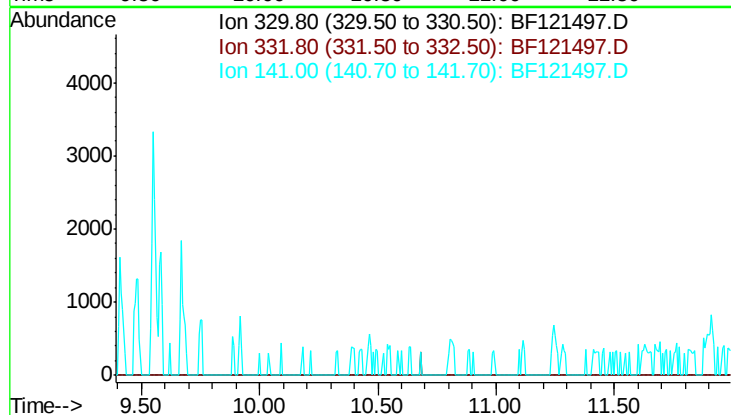




#42
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.69 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

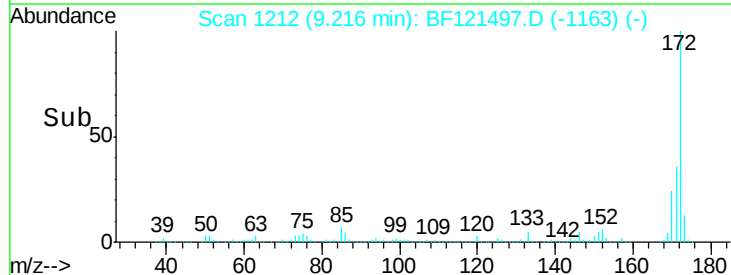
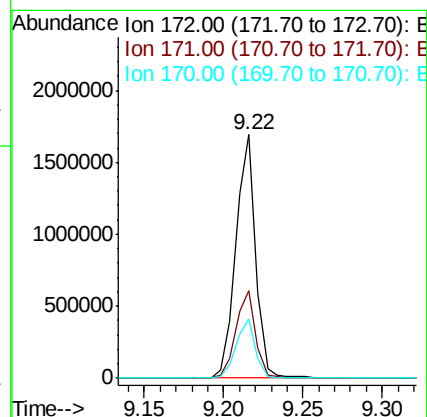
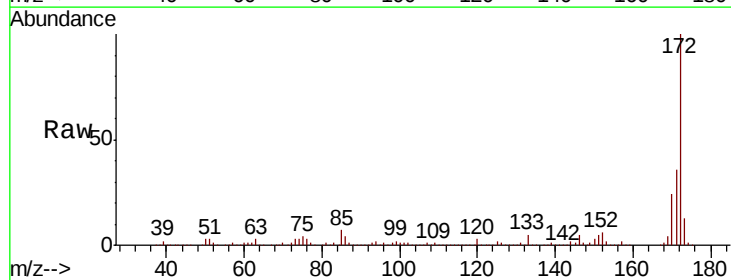
Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-A

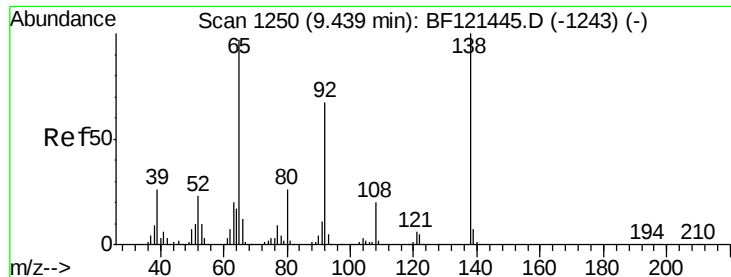
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 95.2
 141 30.7



#45
 2-Fluorobiphenyl
 Concen: 45.920 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

Tgt Ion:172 Resp: 1469859
 Ion Ratio Lower Upper
 172 100
 171 36.0 30.6 45.8
 170 24.2 20.6 31.0

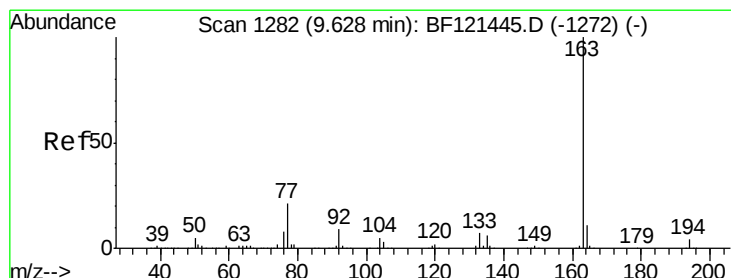
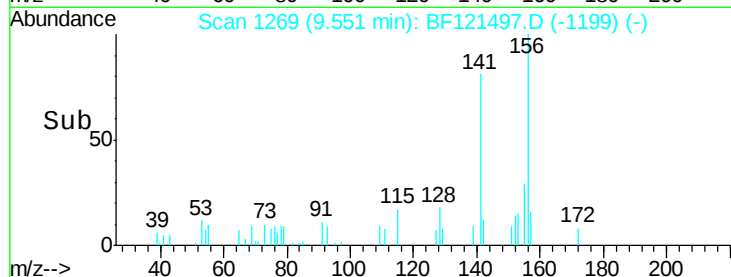
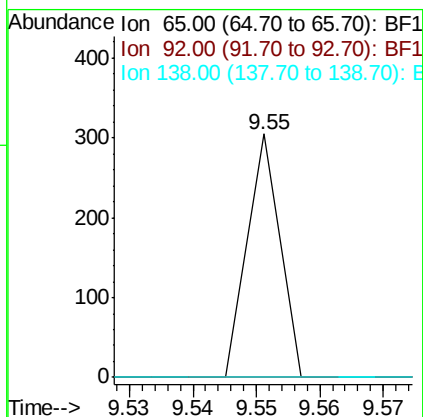
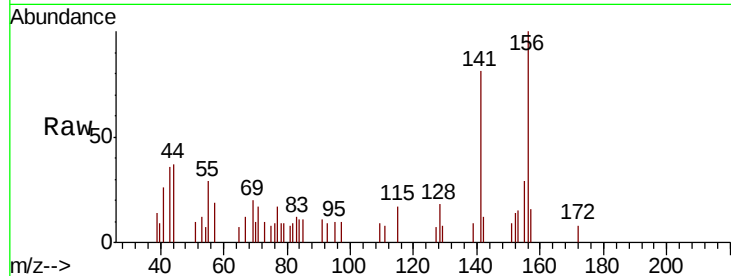




#48
2-Nitroaniline
Concen: 6.658 ng
RT: 9.55 min Scan# 1269
Delta R.T. 0.11 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

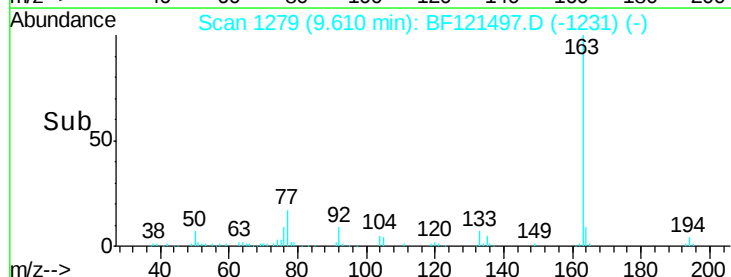
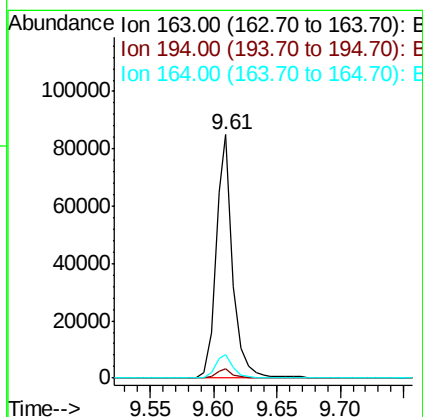
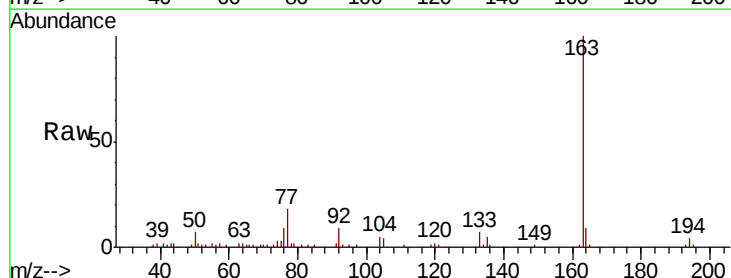
Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-A

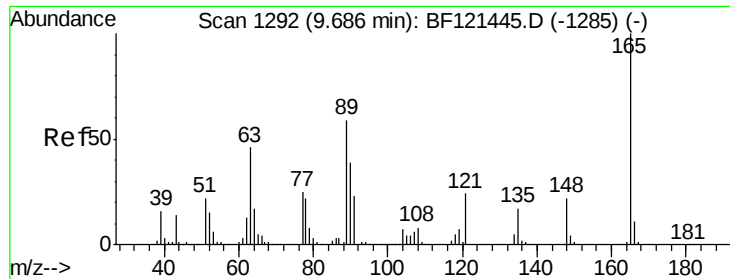
Tot Ion: 65 Resp: 108
Ion Ratio Lower Upper
65 100
92 0.0 55.6 83.4#
138 0.0 82.9 124.3#



#50
Dimethylphthalate
Concen: 2.190 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Tgt Ion: 163 Resp: 77678
Ion Ratio Lower Upper
163 100
194 3.8 3.3 4.9
164 9.5 8.6 12.8

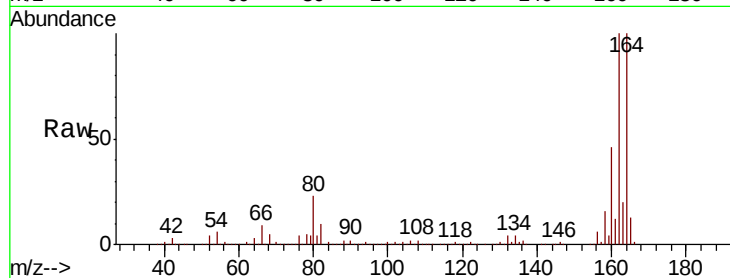




#51
 2,6-Dinitrotoluene
 Concen: 15.242 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.21 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-A

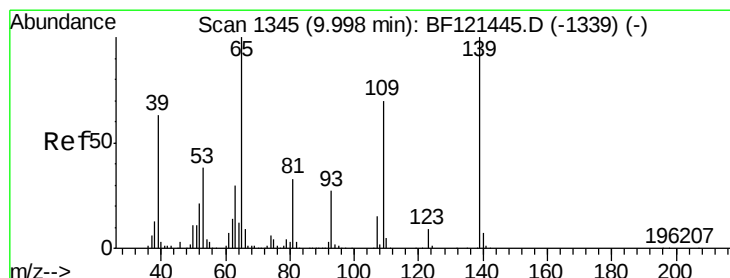
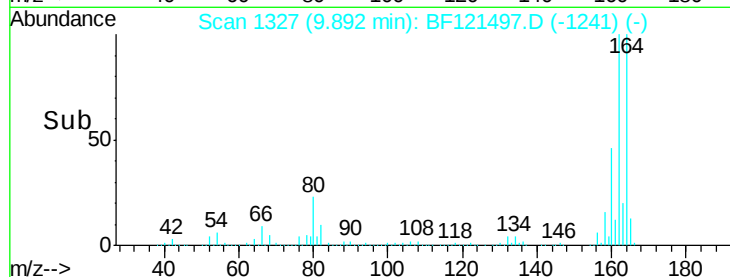
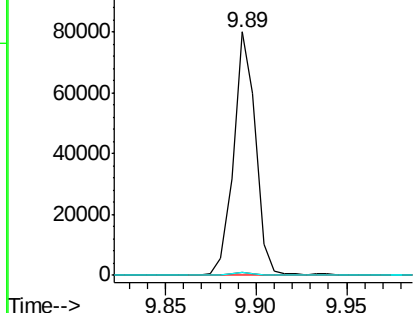
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	43.6	65.4#
89	1.3	47.4	71.2#



Abundance Ion 165.00 (164.70 to 165.70): E

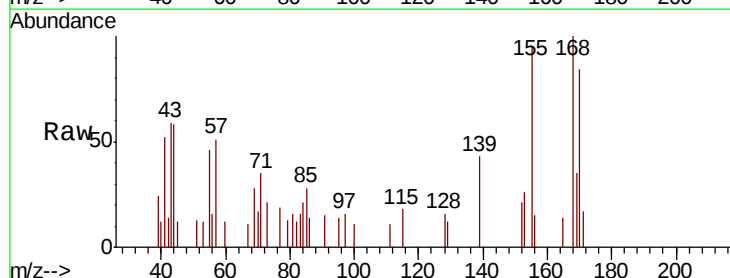
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56
 4-Nitrophenol
 Concen: 7.963 ng
 RT: 10.10 min Scan# 1362
 Delta R.T. 0.10 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

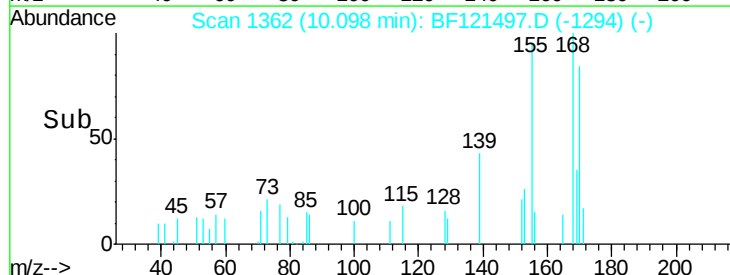
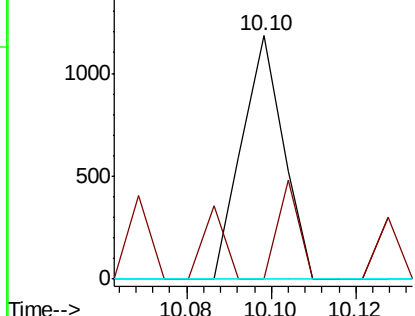
Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	50.5	90.5#
65	0.0	80.2	120.2#

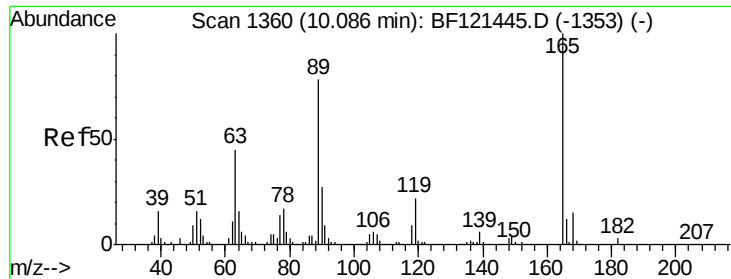


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

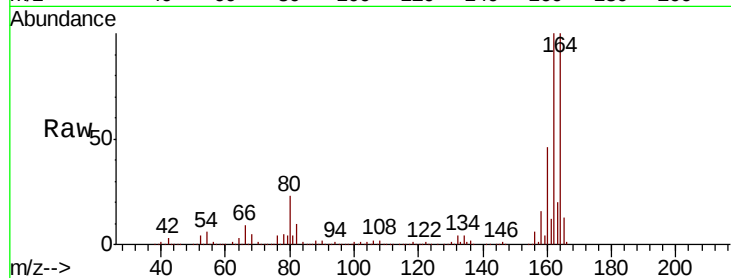




#57
 2,4-Dinitrotoluene
 Concen: 14.296 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.19 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-A

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	36.0	54.0#
89	1.3	62.6	93.8#
182	0.0	2.2	3.2#



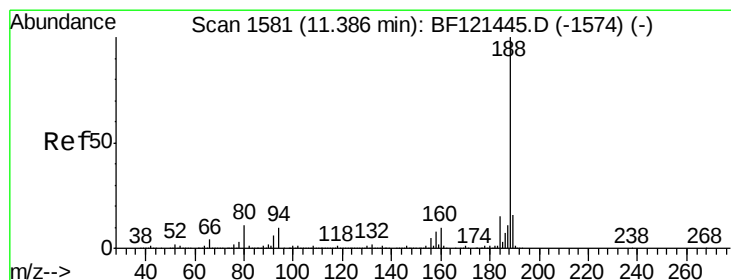
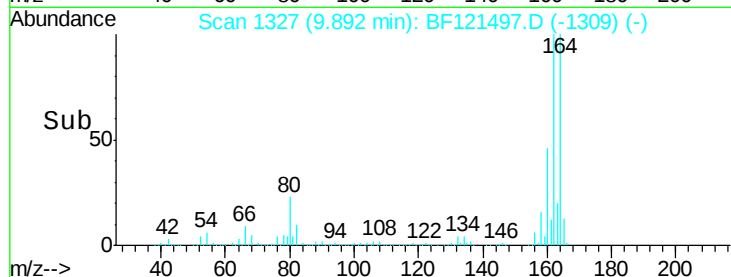
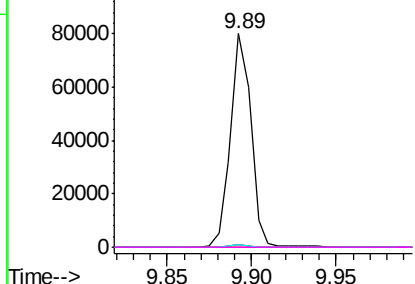
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

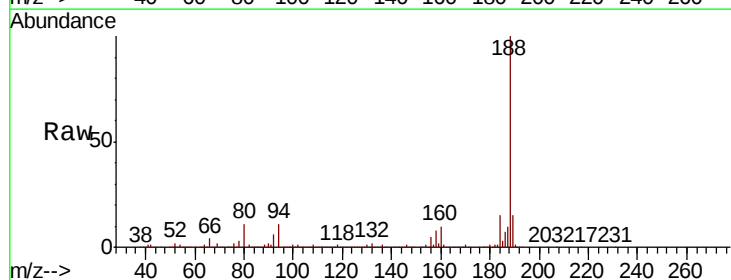
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.3	12.5
80	11.3	8.6	13.0

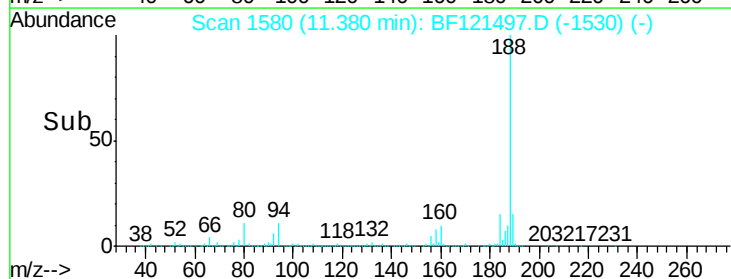
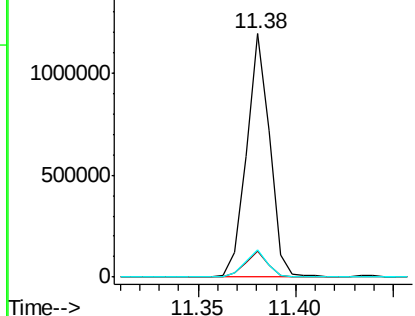


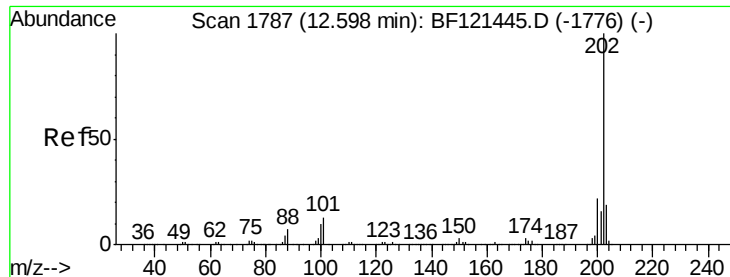
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#75

Fluoranthene

Concen: 4.351 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

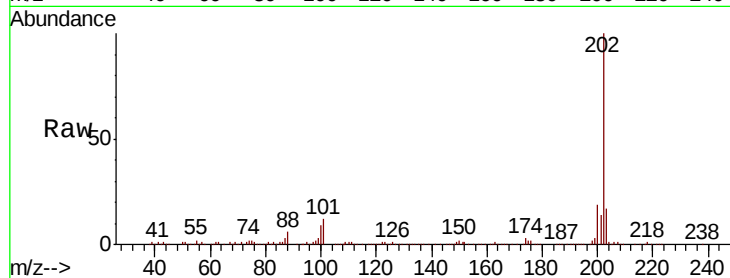
Tot Ion:202 Resp: 235541

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.3

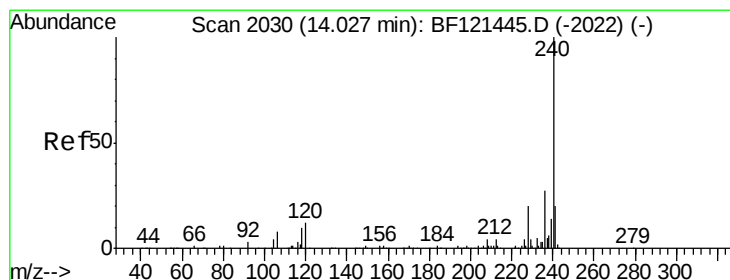
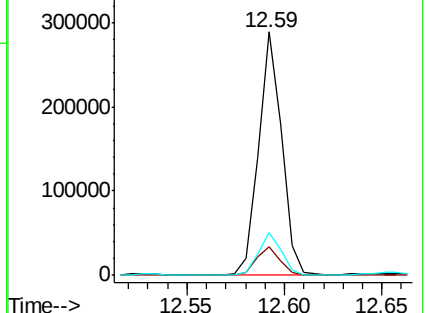
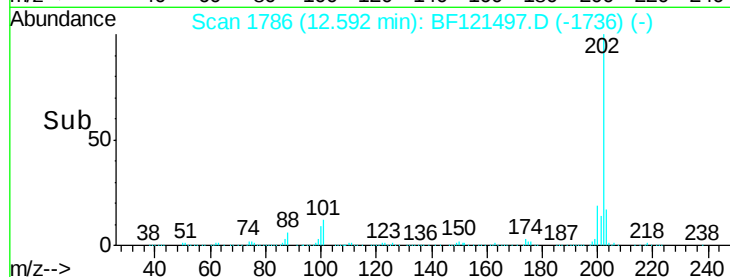
203 17.3 0.0 39.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

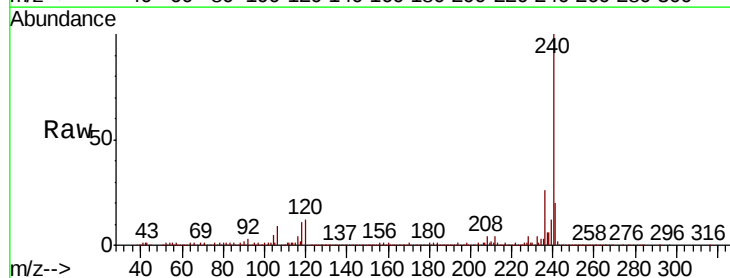
Tgt Ion:240 Resp: 742147

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

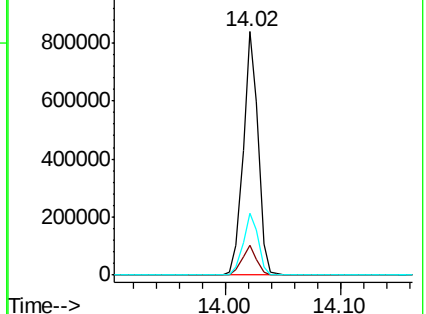
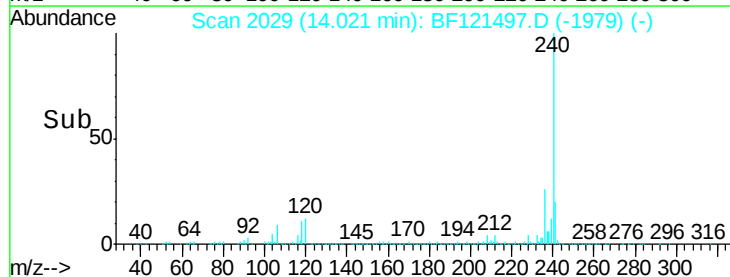
236 25.6 21.8 32.6

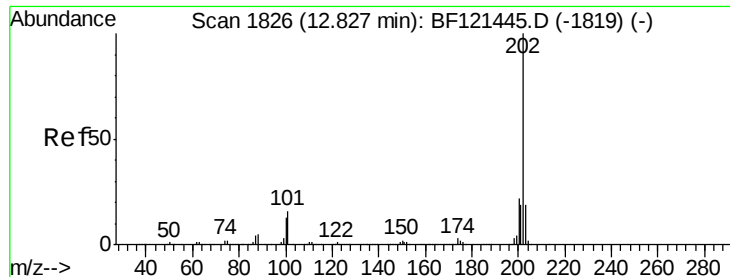


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 4.604 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

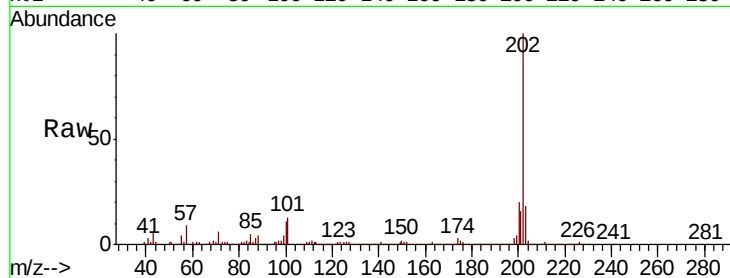
Tot Ion:202 Resp: 244026

Ion Ratio Lower Upper

202 100

200 20.4 18.0 27.0

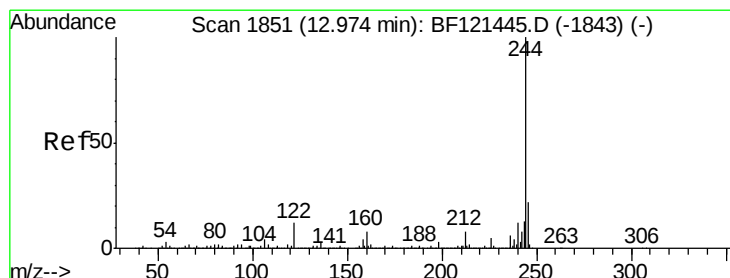
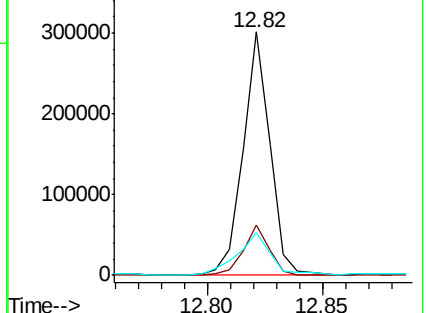
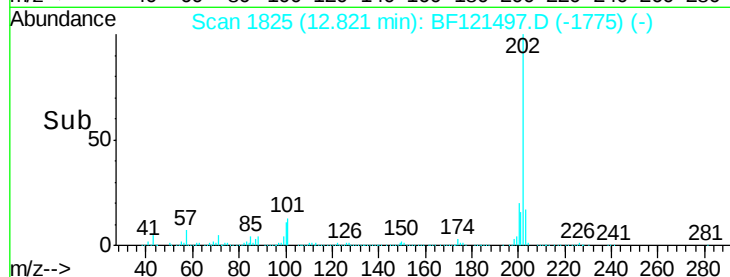
203 17.7 15.3 22.9



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: 41.654 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

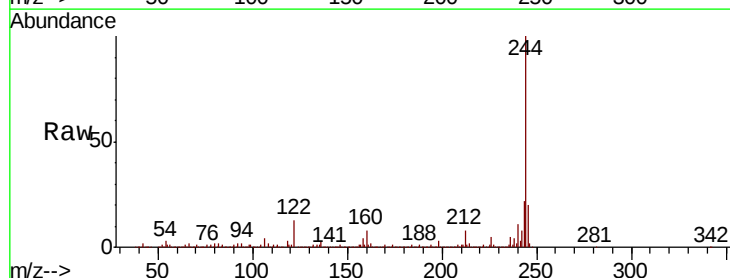
Tgt Ion:244 Resp: 1468585

Ion Ratio Lower Upper

244 100

212 7.6 6.3 9.5

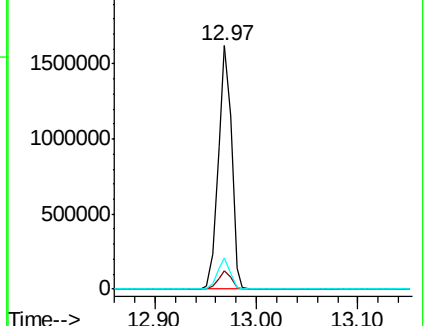
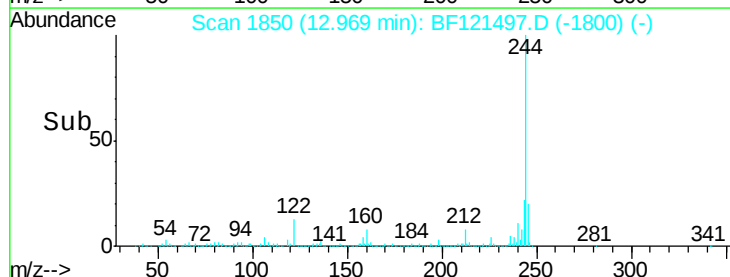
122 12.8 9.5 14.3

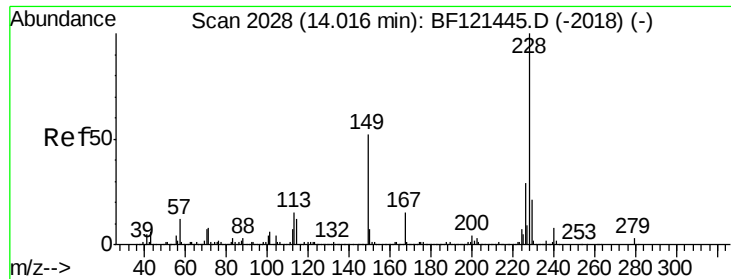


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

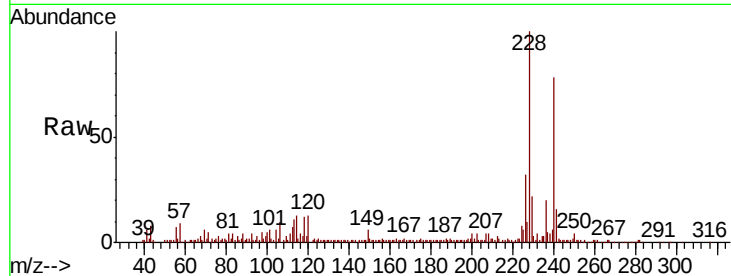




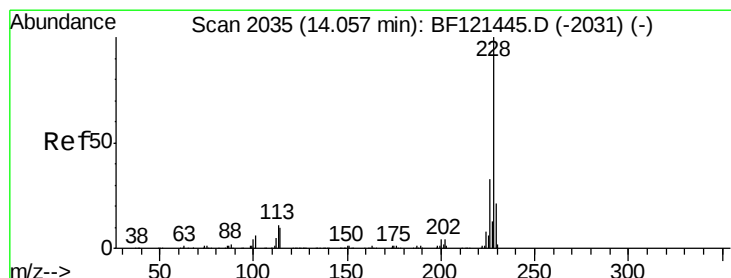
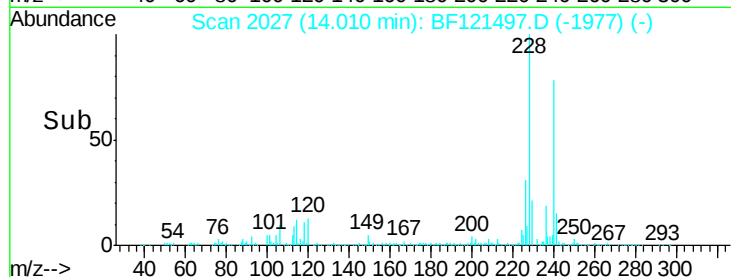
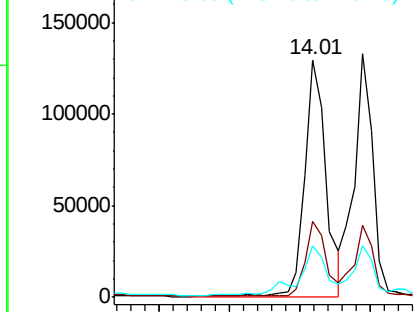
#81
Benzo(a)anthracene
Concen: 2.977 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-A

Tot Ion:228 Resp: 134876
Ion Ratio Lower Upper
228 100
226 31.8 23.0 34.4
229 21.8 16.6 24.8

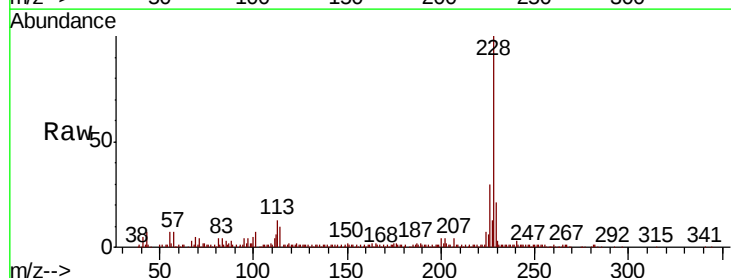


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

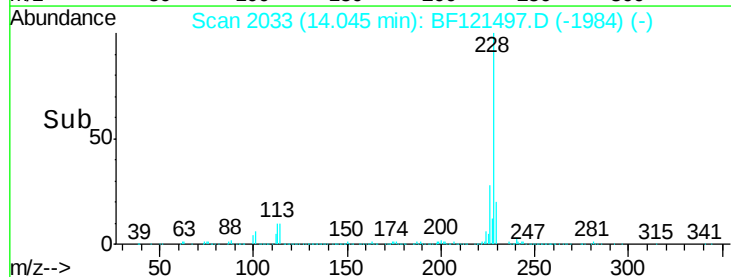
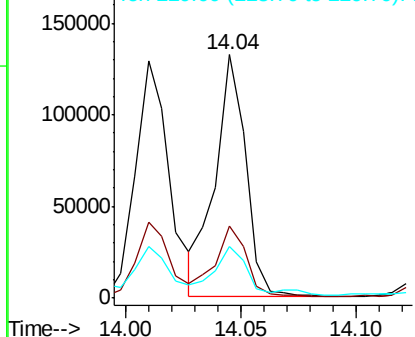


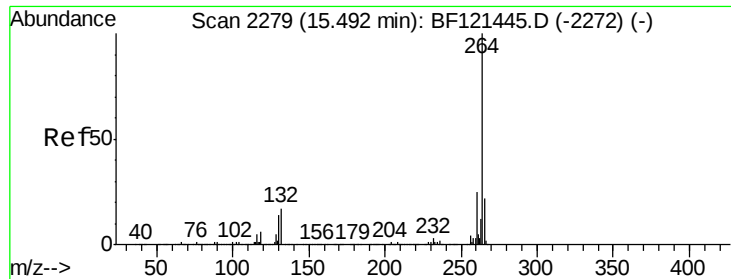
#83
Chrysene
Concen: 2.703 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Tgt Ion:228 Resp: 122514
Ion Ratio Lower Upper
228 100
226 29.8 26.2 39.2
229 21.4 16.6 25.0



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

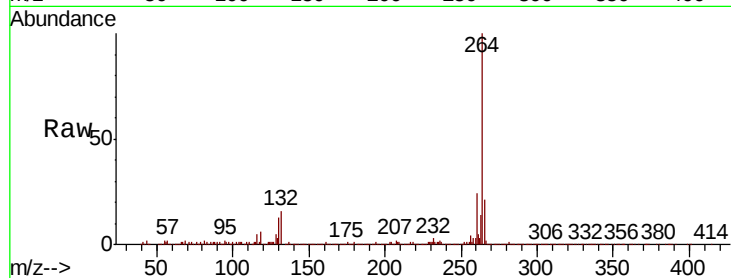




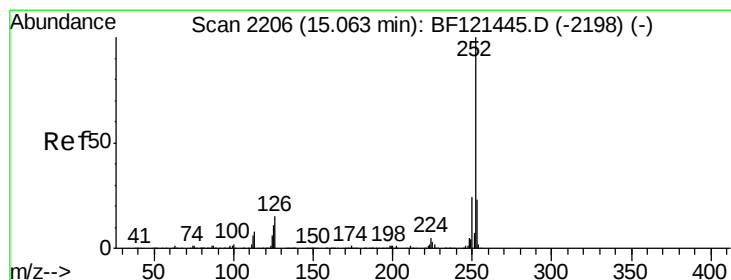
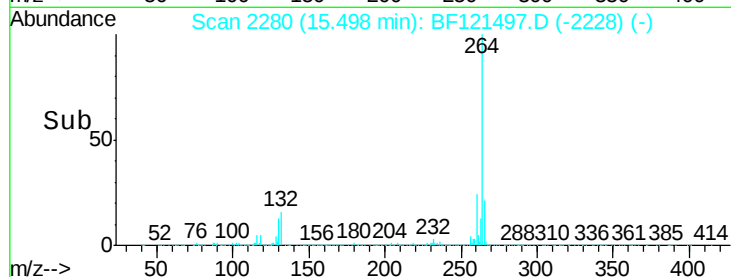
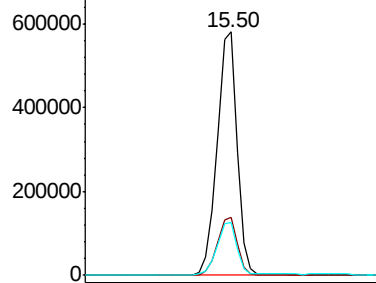
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-A

Tot	Ion:264	Resp:	737675
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.6	29.4
265	21.5	17.8	26.6

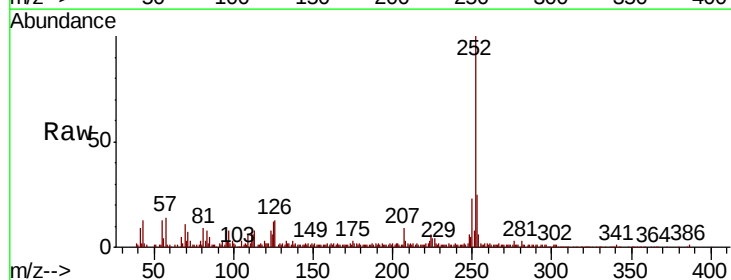


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

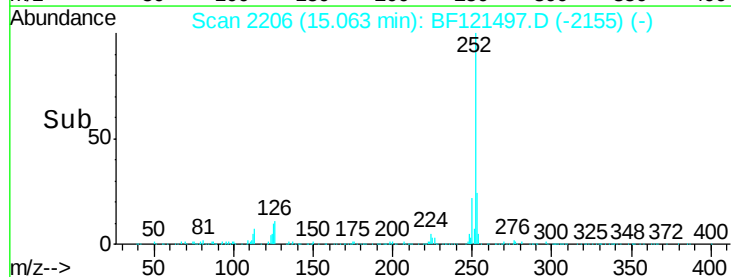
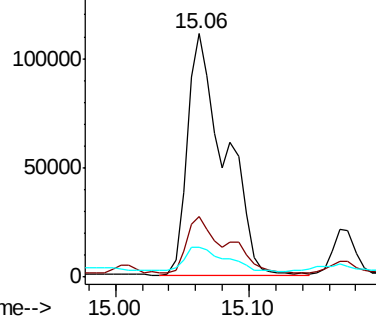


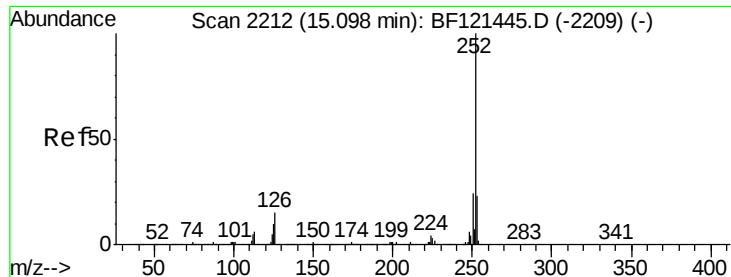
#88
Benzo(b)fluoranthene
Concen: 4.530 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF121497.D
Acq: 1 Sep 2020 15:29

Tgt	Ion:252	Resp:	217371
Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.3	27.5
125	12.5	9.2	13.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 4.870 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.04 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-A

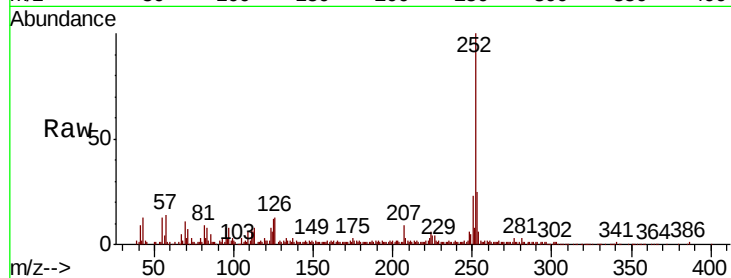
Tot Ion:252 Resp: 217371

Ion Ratio Lower Upper

252 100

253 25.0 18.3 27.5

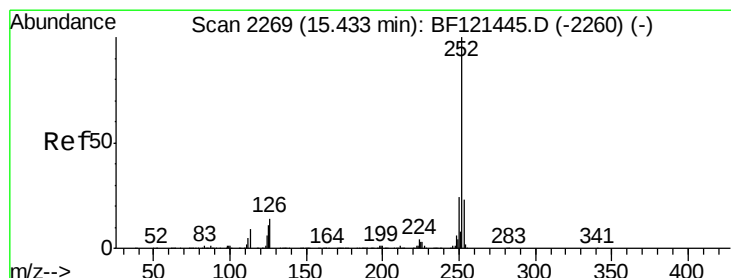
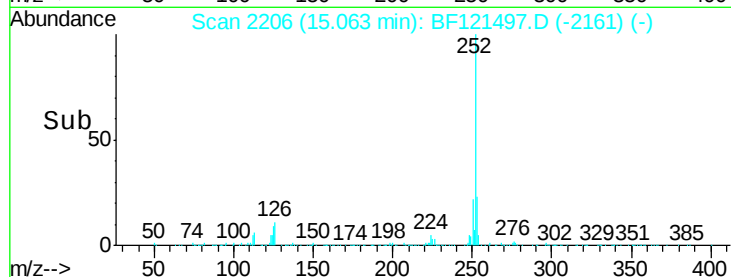
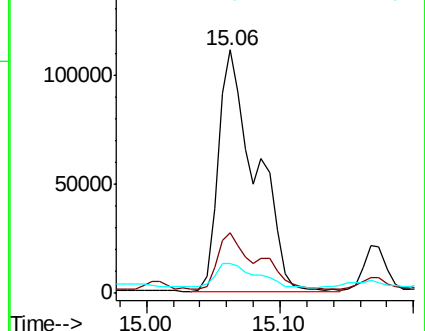
125 12.5 8.5 12.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 2.778 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF121497.D

Acq: 1 Sep 2020 15:29

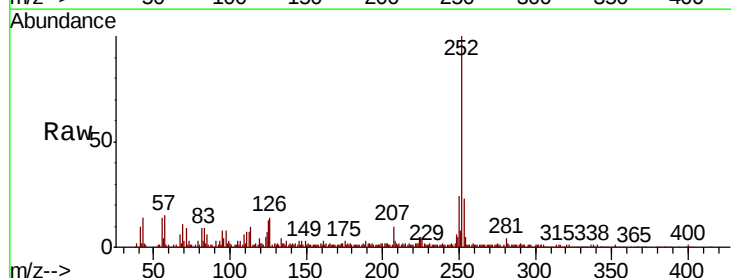
Tgt Ion:252 Resp: 119861

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

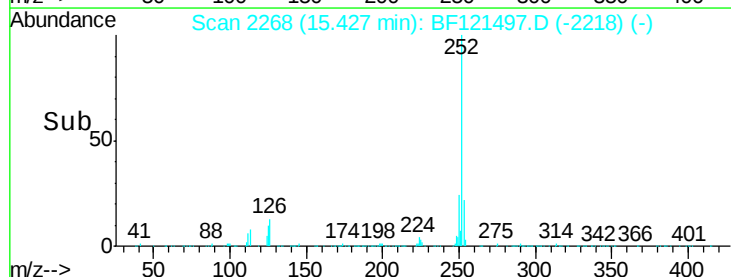
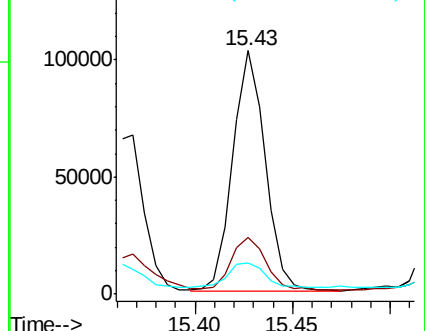
125 13.0 9.0 13.4

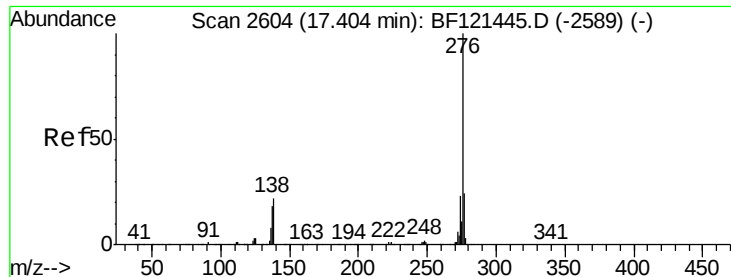


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

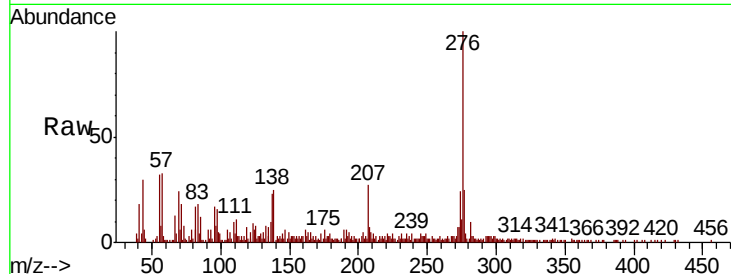




#92
 Benzo(a,h,i)perylene
 Concen: 2.223 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.01 min
 Lab File: BF121497.D
 Acq: 1 Sep 2020 15:29

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-A

Tot Ion:	276	Resp:	79556
Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.9	28.3
138	25.0	17.4	26.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

