

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122721\
 Data File : BF126358.D
 Acq On : 27 Dec 2021 16:29
 Operator : JU/CG
 Sample : M5218-04
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-21-G2

Quant Time: Dec 27 16:53:50 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121521.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 22 13:00:11 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

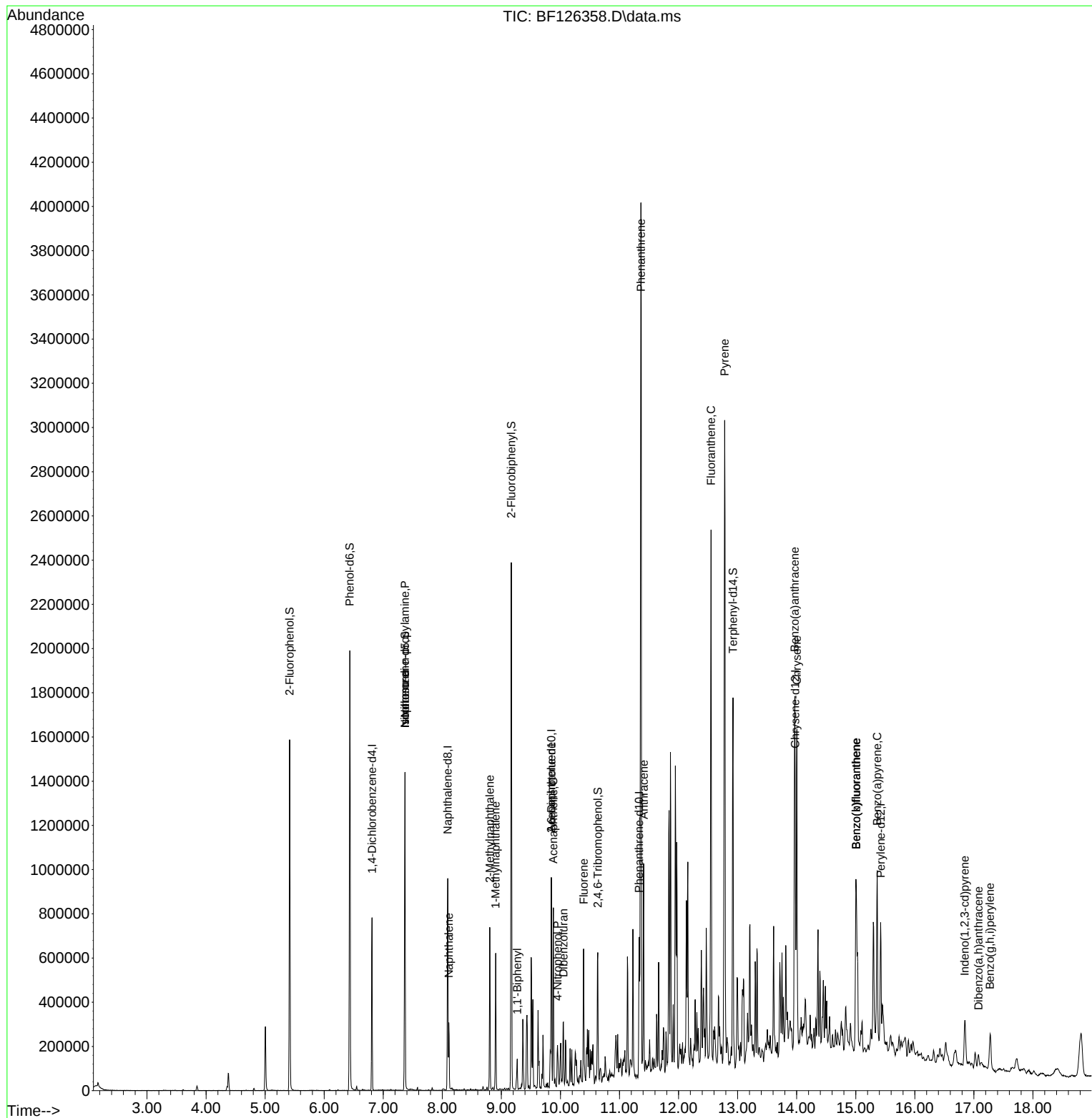
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.810	152	105777	20.000	ng	0.00
21) Naphthalene-d8	8.092	136	417052	20.000	ng	#-0.01
39) Acenaphthene-d10	9.845	164	179623	20.000	ng	-0.01
64) Phenanthrene-d10	11.333	188	250480	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	198813	20.000	ng	# 0.00
86) Perylene-d12	15.421	264	214583	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	432993	60.282	ng	-0.01
7) Phenol-d6	6.434	99	742268	81.386	ng	-0.01
23) Nitrobenzene-d5	7.369	82	459910	59.725	ng	-0.01
42) 2,4,6-Tribromophenol	10.633	330	58608	40.600	ng	-0.01
45) 2-Fluorobiphenyl	9.169	172	674871	65.896	ng	-0.01
79) Terphenyl-d14	12.921	244	512650	44.818	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.369	70	56373	10.069	ng	# 57
25) Isophorone	7.369	82	459906	31.627	ng	# 59
31) Naphthalene	8.110	128	127877	6.557	ng	97
37) 2-Methylnaphthalene	8.804	142	185218	15.421	ng	98
38) 1-Methylnaphthalene	8.904	142	149991	12.868	ng	93
46) 1,1'-Biphenyl	9.269	154	36664	2.761	ng	96
51) 2,6-Dinitrotoluene	9.845	165	31950	12.973	ng	# 29
52) Acenaphthene	9.880	154	159844	16.142	ng	98
55) Dibenzofuran	10.051	168	43844	3.252	ng	# 85
56) 4-Nitrophenol	9.951	139	4598	2.034	ng	# 28
58) Fluorene	10.392	166	140601	14.406	ng	99
71) Phenanthrene	11.363	178	1784018	137.996	ng	96
72) Anthracene	11.410	178	331300	25.532	ng	100
75) Fluoranthene	12.551	202	910702	78.186	ng	93
78) Pyrene	12.780	202	1380620	75.587	ng	97
81) Benzo(a)anthracene	13.968	228	570939	48.481	ng	98
83) Chrysene	14.004	228	536776	43.869	ng	98
87) Indeno(1,2,3-cd)pyrene	16.845	276	130727	9.133	ng	100
88) Benzo(b)fluoranthene	15.010	252	561495	43.549	ng	# 95
89) Benzo(k)fluoranthene	15.010	252	561495	45.524	ng	# 94
90) Benzo(a)pyrene	15.362	252	351182	32.772	ng	96
91) Dibenzo(a,h)anthracene	17.080	278	39380	3.385	ng	95
92) Benzo(g,h,i)perylene	17.274	276	114308	9.495	ng	92

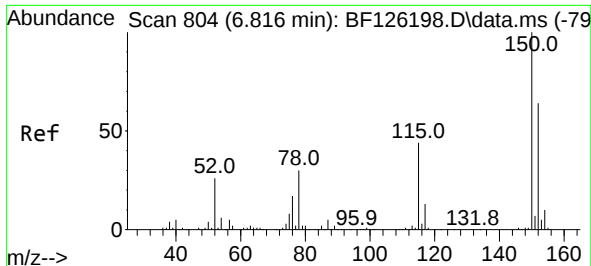
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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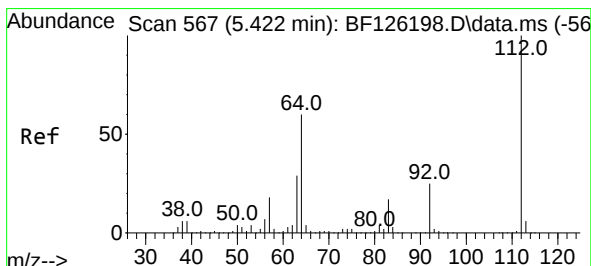
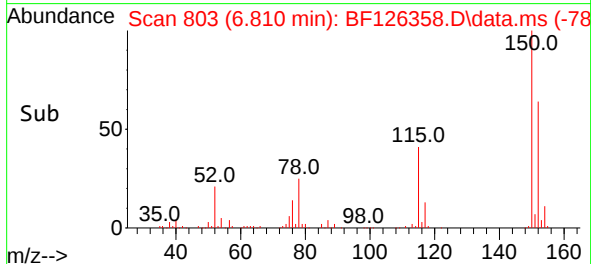
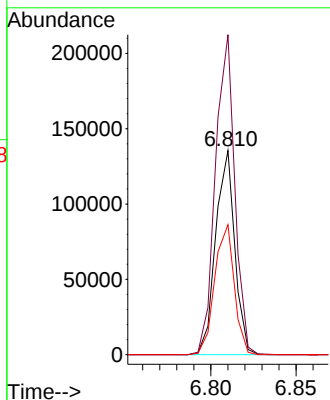
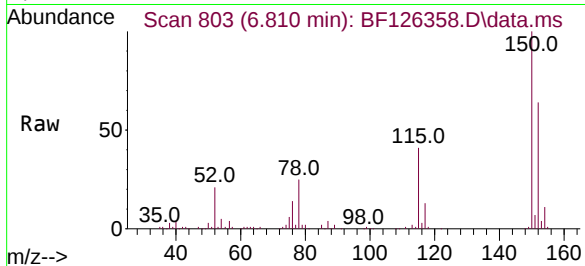




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.810 min Scan# 804
Delta R.T. -0.006 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

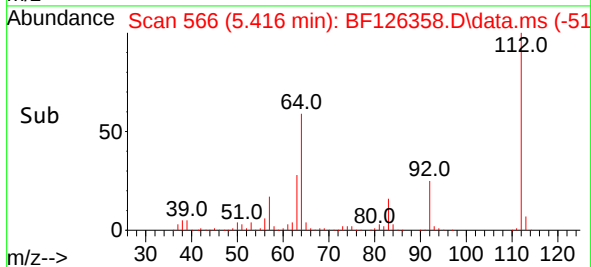
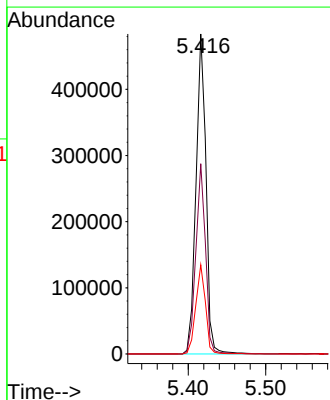
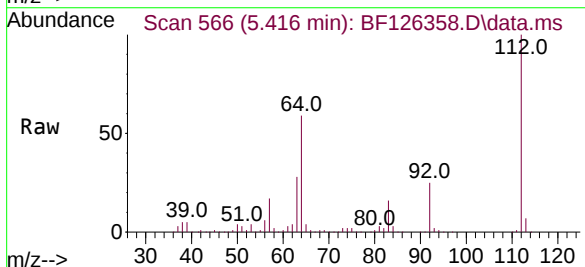
Instrument :
BNA_F
ClientSampleId :
SB-21-G2

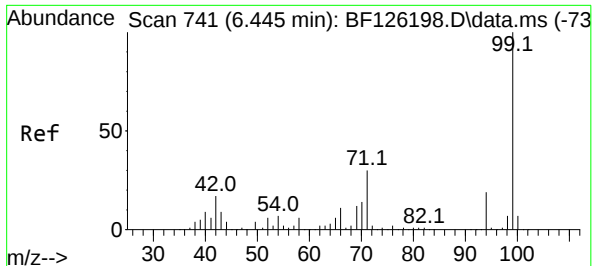
Tgt Ion:152 Resp: 105777
Ion Ratio Lower Upper
152 100
150 156.8 117.6 176.4
115 63.7 47.1 70.7



#5
2-Fluorophenol
Concen: 60.282 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion:112 Resp: 432993
Ion Ratio Lower Upper
112 100
64 59.5 44.2 66.2
63 27.9 26.2 39.2

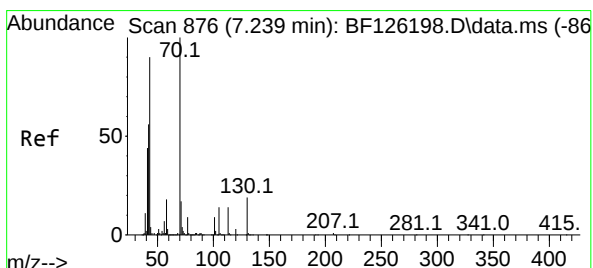
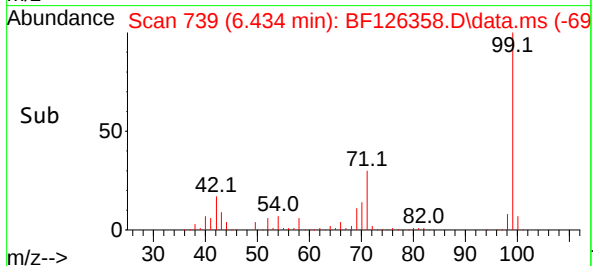
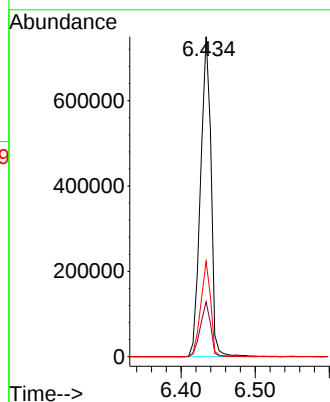
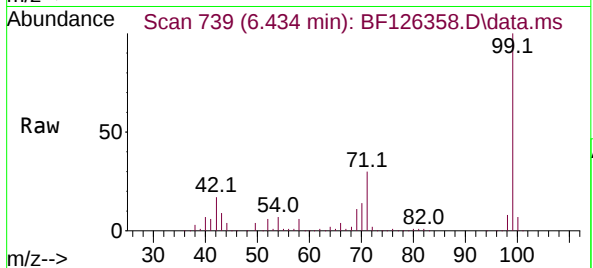




#7
Phenol-d6
Concen: 81.386 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

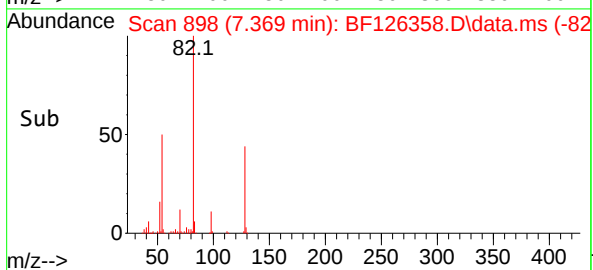
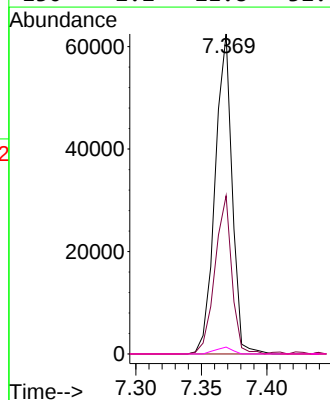
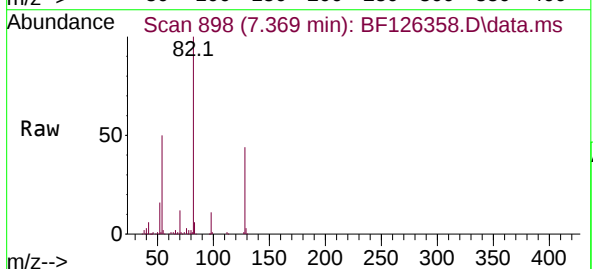
Instrument :
BNA_F
ClientSampleId :
SB-21-G2

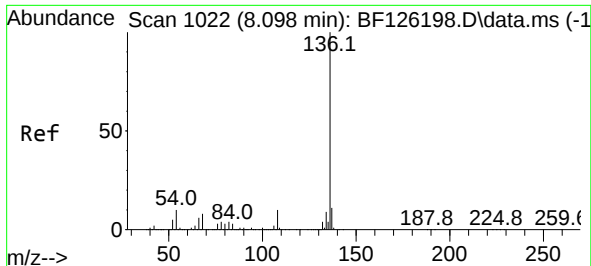
Tgt Ion: 99 Resp: 742268
Ion Ratio Lower Upper
99 100
42 17.2 23.5 35.3#
71 29.8 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 10.069 ng
RT: 7.369 min Scan# 898
Delta R.T. 0.135 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion: 70 Resp: 56373
Ion Ratio Lower Upper
70 100
42 49.4 72.2 108.2#
101 0.0 7.8 11.8#
130 2.2 21.8 32.6#



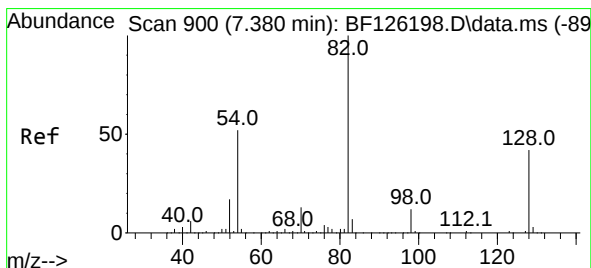
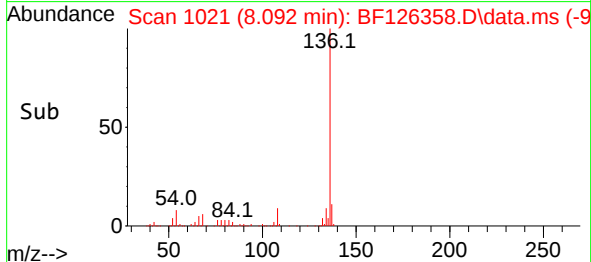
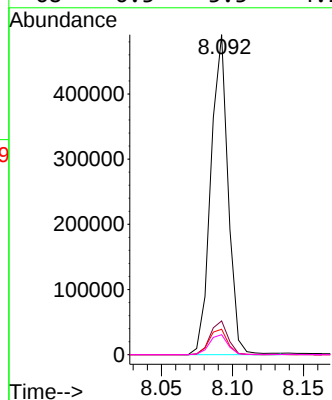
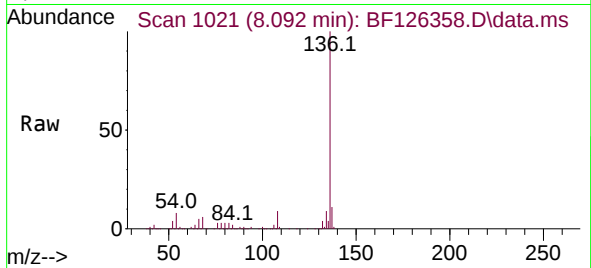


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.092 min Scan# 1022
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Instrument :
BNA_F
ClientSampleId :
SB-21-G2

Tgt Ion:136 Resp: 417052

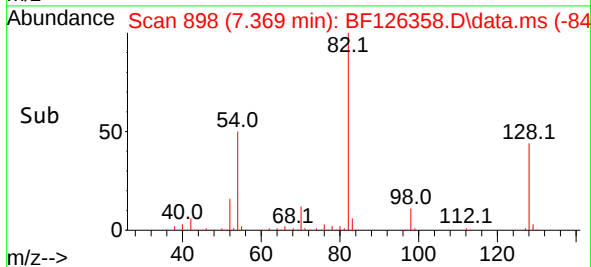
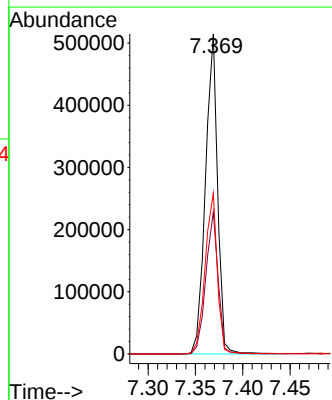
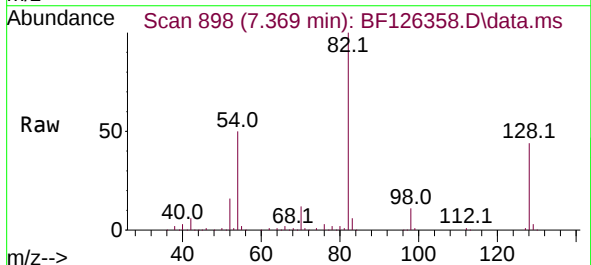
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.8	14.6
54	8.0	6.4	9.6
68	6.3	3.3	4.9

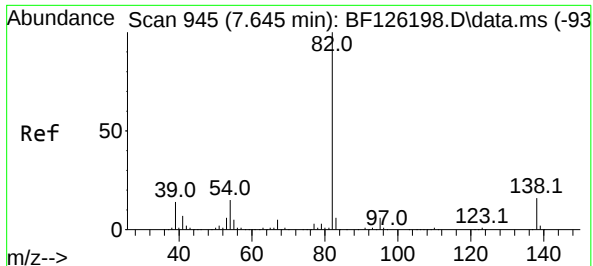


#23
Nitrobenzene-d5
Concen: 59.725 ng
RT: 7.369 min Scan# 898
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion: 82 Resp: 459910

Ion	Ratio	Lower	Upper
82	100		
128	44.3	40.6	60.8
54	50.2	49.6	74.4

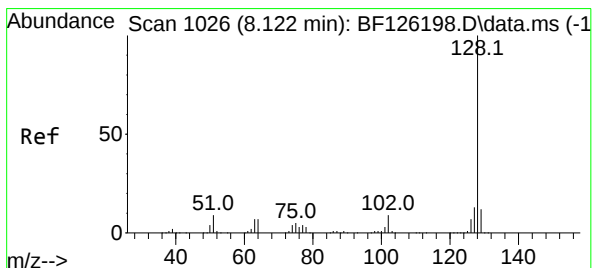
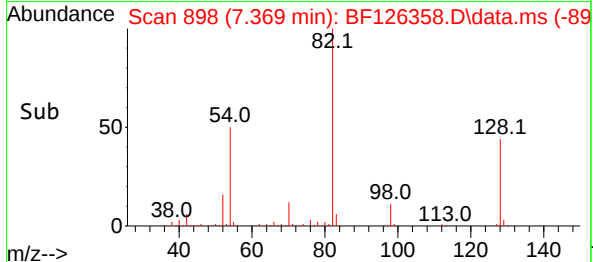
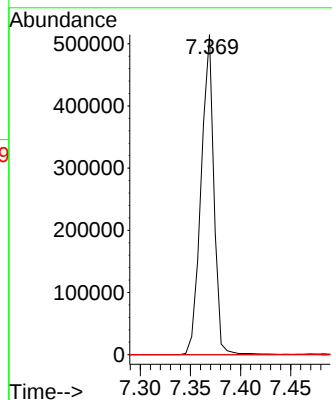
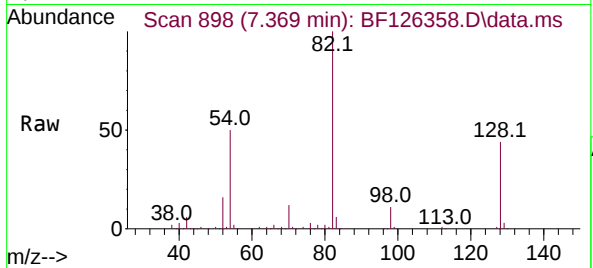




#25
Isophorone
Concen: 31.627 ng
RT: 7.369 min Scan# 89
Delta R.T. -0.270 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

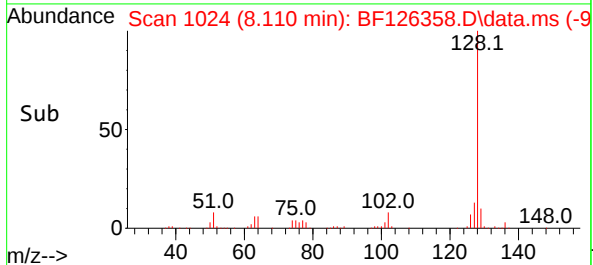
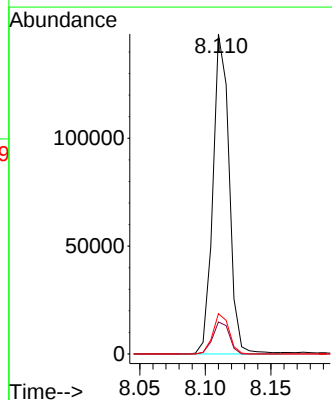
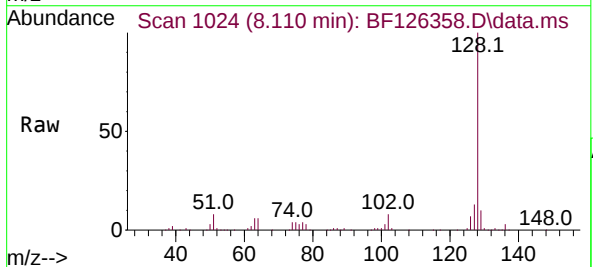
Instrument :
BNA_F
ClientSampleId :
SB-21-G2

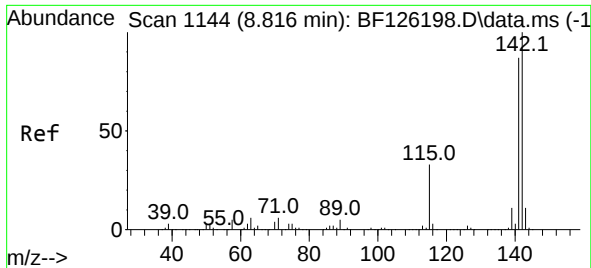
Tgt Ion: 82 Resp: 459906
Ion Ratio Lower Upper
82 100
95 0.0 6.5 9.7#
138 0.0 18.4 27.6#



#31
Naphthalene
Concen: 6.557 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion: 128 Resp: 127877
Ion Ratio Lower Upper
128 100
129 10.0 9.4 14.0
127 12.6 10.9 16.3





#37

2-Methylnaphthalene

Concen: 15.421 ng

RT: 8.804 min Scan# 1142

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

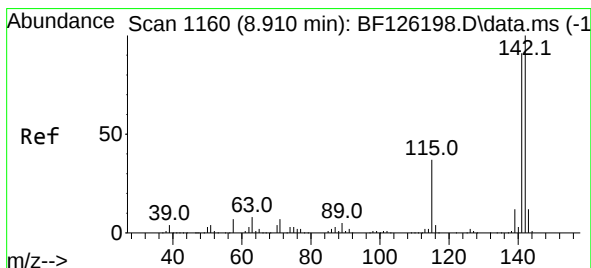
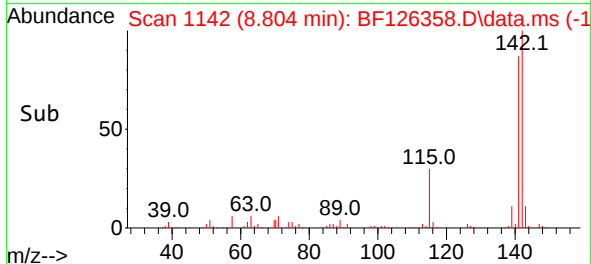
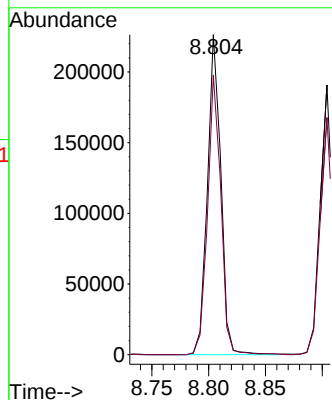
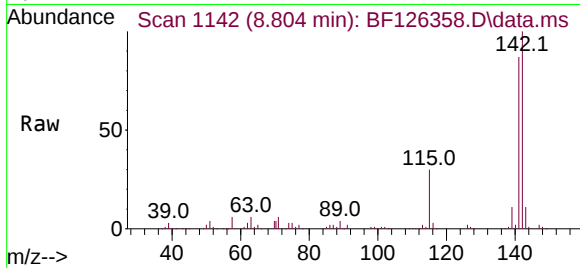
SB-21-G2

Tgt Ion:142 Resp: 185218

Ion Ratio Lower Upper

142 100

141 87.3 71.2 106.8



#38

1-Methylnaphthalene

Concen: 12.868 ng

RT: 8.904 min Scan# 1159

Delta R.T. -0.012 min

Lab File: BF126358.D

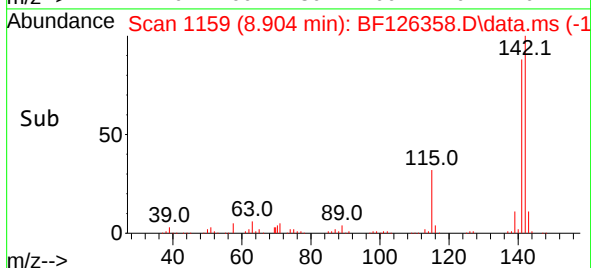
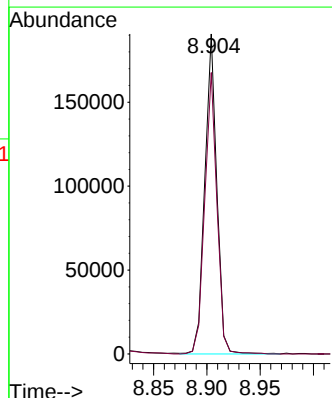
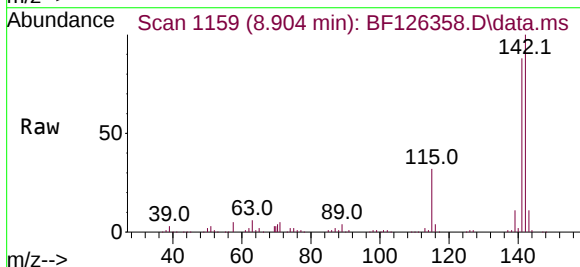
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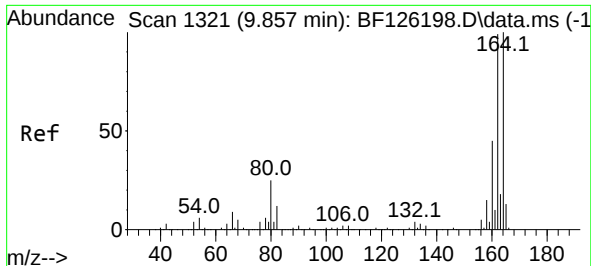
Tgt Ion:142 Resp: 149991

Ion Ratio Lower Upper

142 100

141 88.0 76.0 114.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.845 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

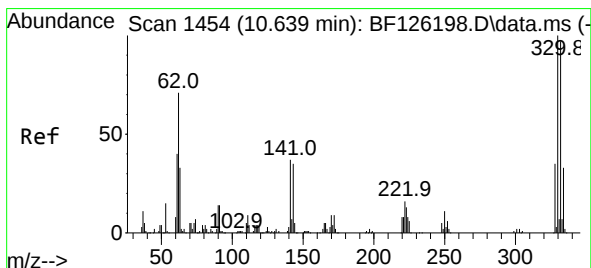
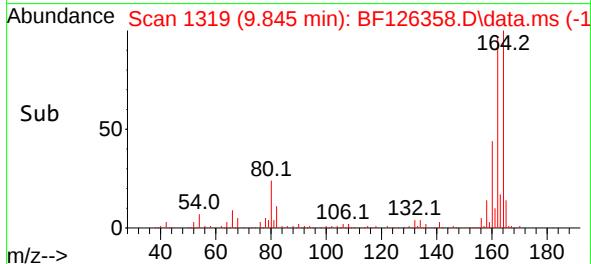
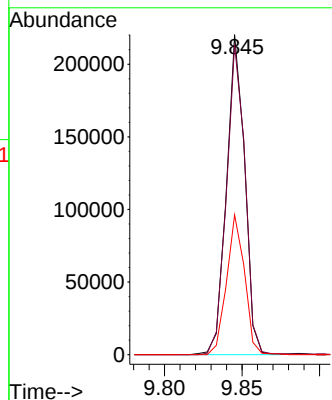
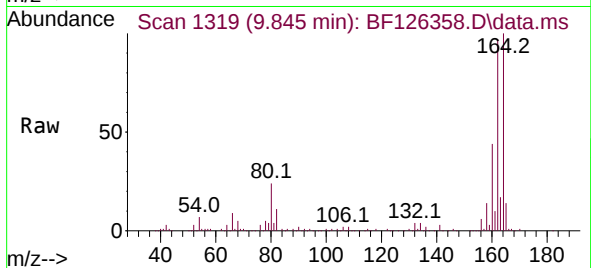
Tgt Ion:164 Resp: 179623

Ion Ratio Lower Upper

164 100

162 96.9 81.3 121.9

160 43.7 38.0 57.0



#42

2,4,6-Tribromophenol

Concen: 40.600 ng

RT: 10.633 min Scan# 1453

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

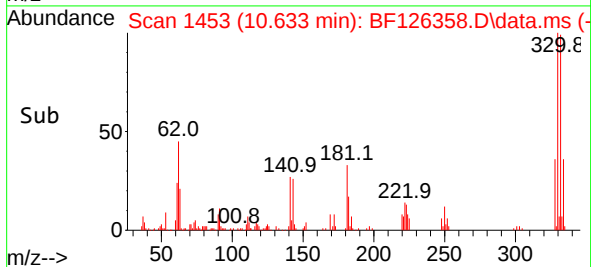
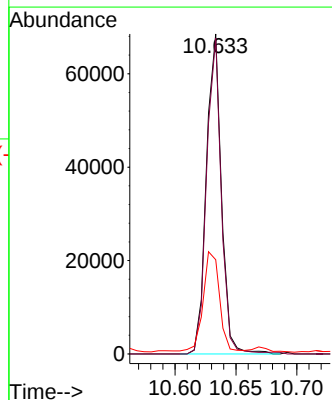
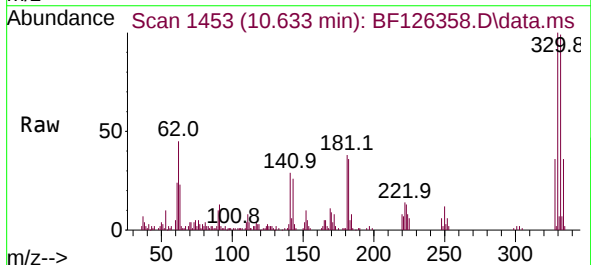
Tgt Ion:330 Resp: 58608

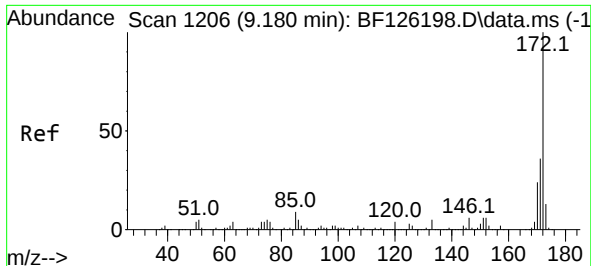
Ion Ratio Lower Upper

330 100

332 96.2 76.2 114.4

141 36.1 44.6 66.8#





#45

2-Fluorobiphenyl

Concen: 65.896 ng

RT: 9.169 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

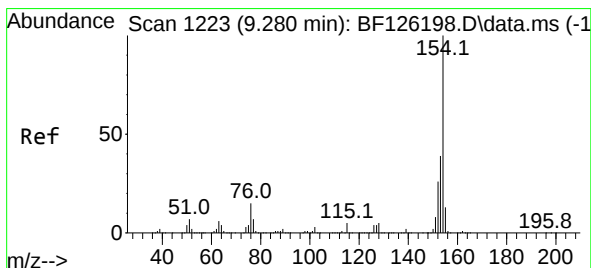
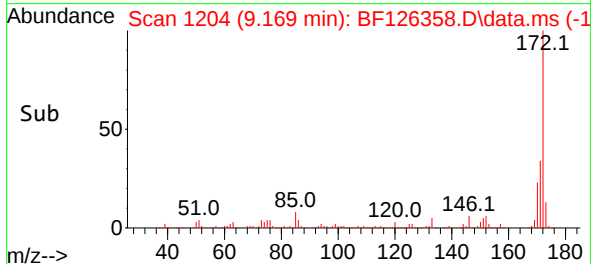
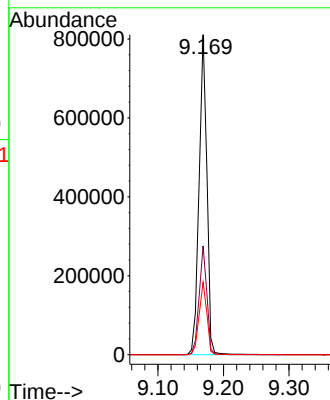
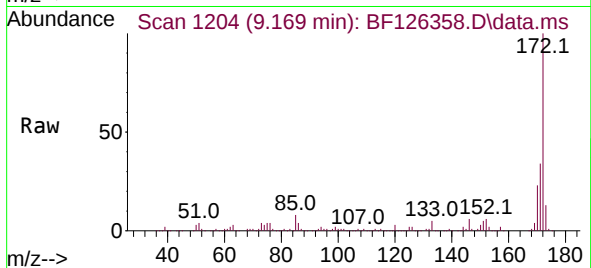
Tgt Ion:172 Resp: 674871

Ion Ratio Lower Upper

172 100

171 34.0 26.5 39.7

170 22.7 18.8 28.2



#46

1,1'-Biphenyl

Concen: 2.761 ng

RT: 9.269 min Scan# 1221

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

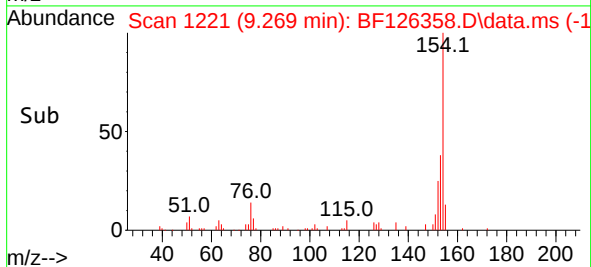
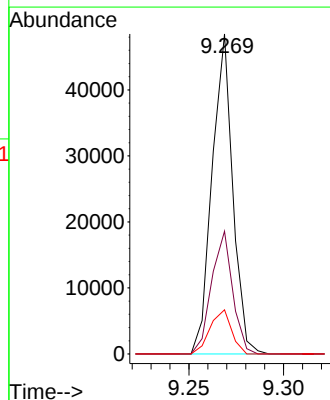
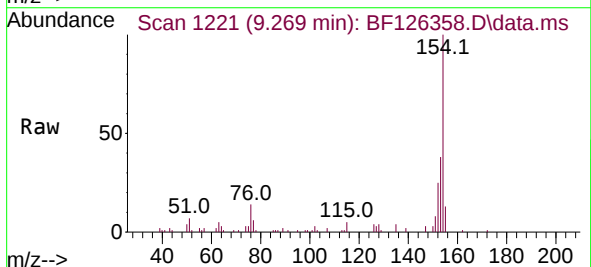
Tgt Ion:154 Resp: 36664

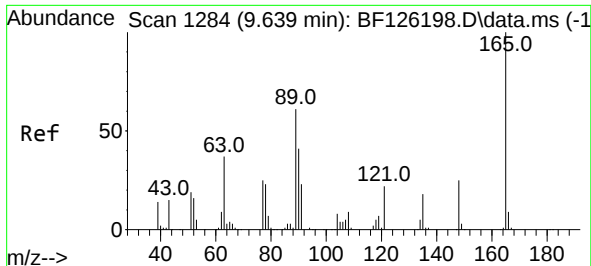
Ion Ratio Lower Upper

154 100

153 38.3 20.0 60.0

76 13.8 0.0 30.3





#51

2,6-Dinitrotoluene

Concen: 12.973 ng

RT: 9.845 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

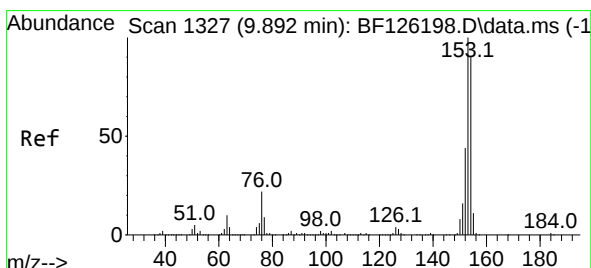
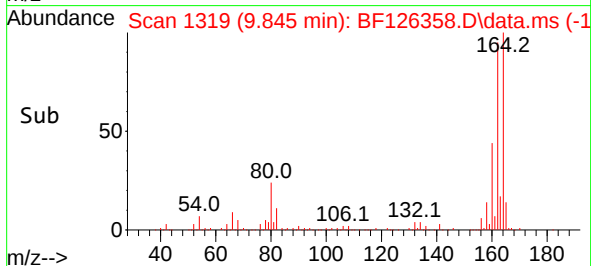
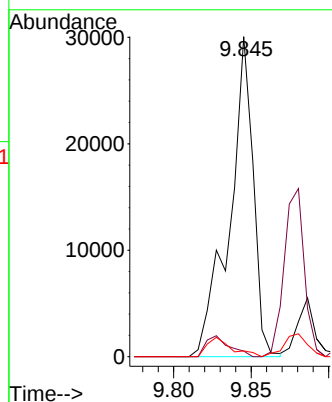
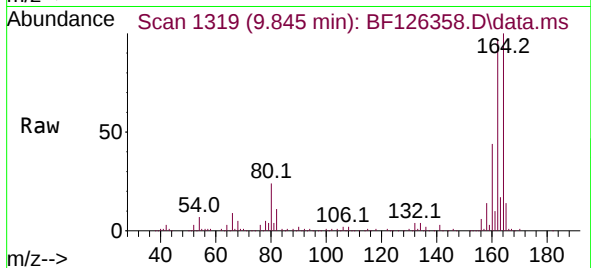
Tgt Ion:165 Resp: 31950

Ion Ratio Lower Upper

165 100

63 1.7 42.6 63.8#

89 1.8 40.6 60.8#



#52

Acenaphthene

Concen: 16.142 ng

RT: 9.880 min Scan# 1325

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

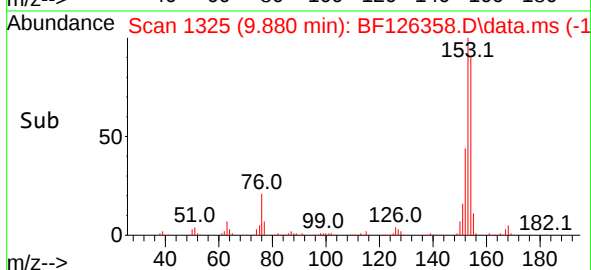
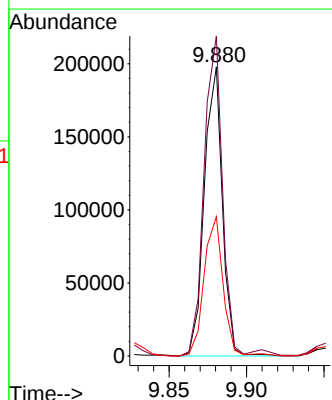
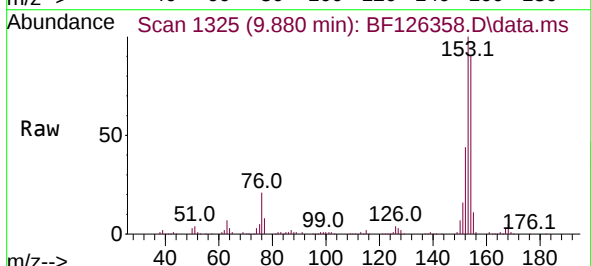
Tgt Ion:154 Resp: 159844

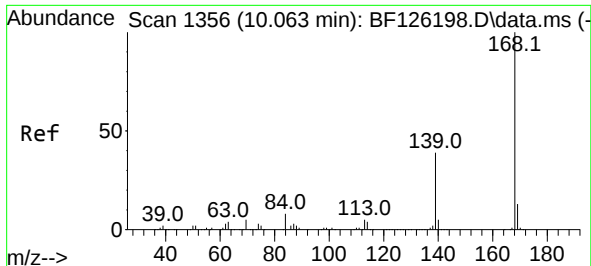
Ion Ratio Lower Upper

154 100

153 110.7 89.4 134.2

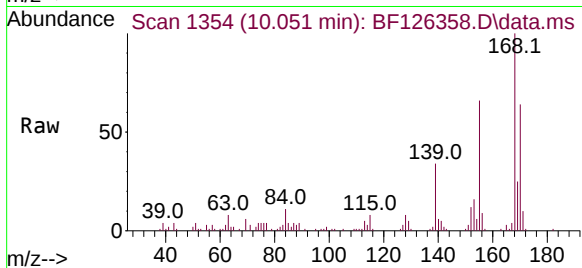
152 48.2 40.5 60.7



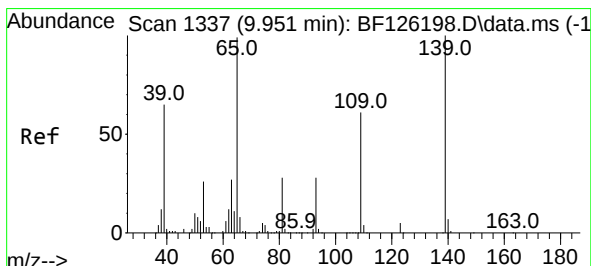
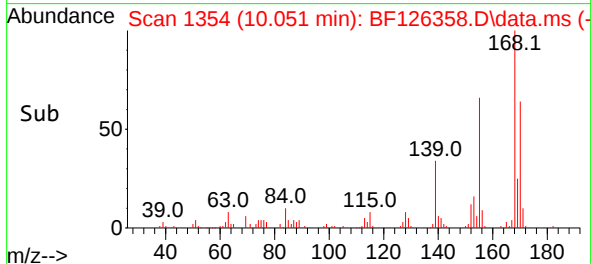
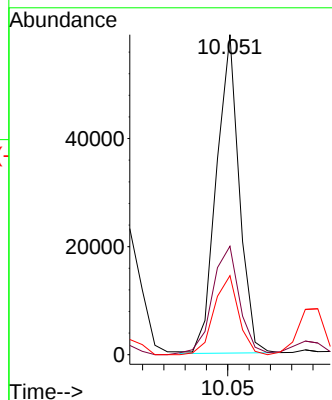


#55
Dibenzofuran
Concen: 3.252 ng
RT: 10.051 min Scan# 1354
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Instrument :
BNA_F
ClientSampleId :
SB-21-G2

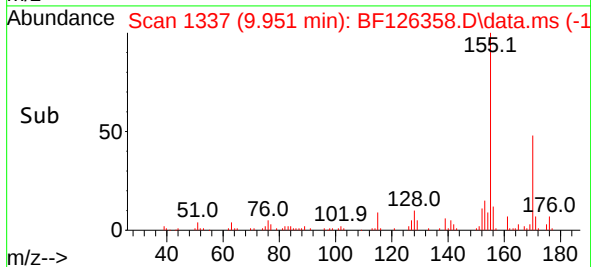
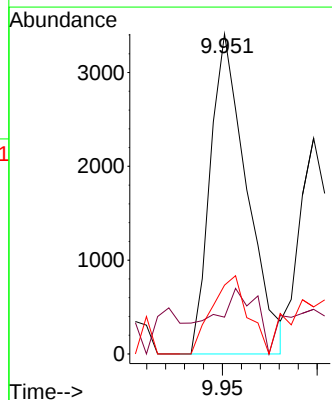
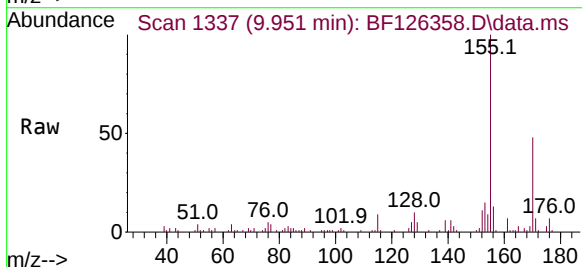


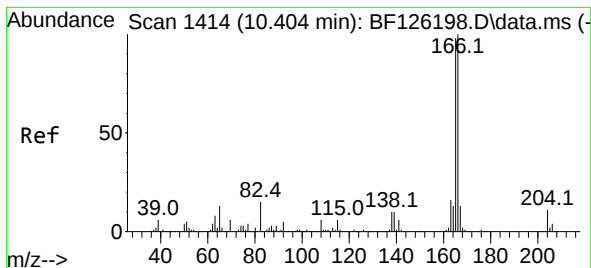
Tgt Ion:168 Resp: 43844
Ion Ratio Lower Upper
168 100
139 33.9 32.7 49.1
169 24.7 11.2 16.8#



#56
4-Nitrophenol
Concen: 2.034 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion:139 Resp: 4598
Ion Ratio Lower Upper
139 100
109 11.5 60.4 100.4#
65 21.5 58.4 98.4#





#58

Fluorene

Concen: 14.406 ng

RT: 10.392 min Scan# 1414

Delta R.T. -0.012 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

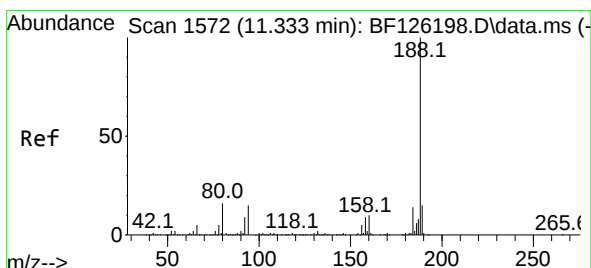
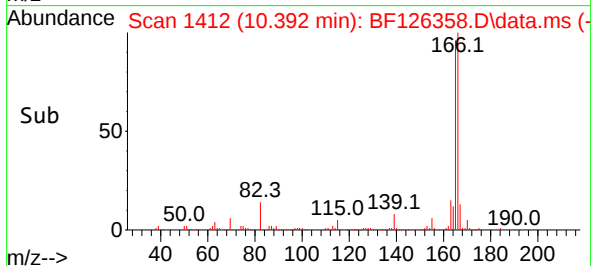
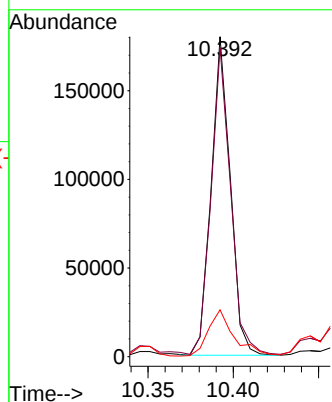
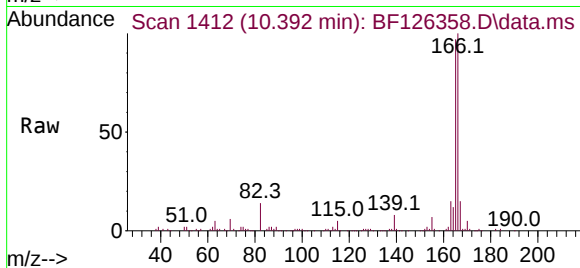
Tgt Ion:166 Resp: 140601

Ion Ratio Lower Upper

166 100

165 96.6 78.1 117.1

167 14.7 11.1 16.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.333 min Scan# 1572

Delta R.T. -0.006 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

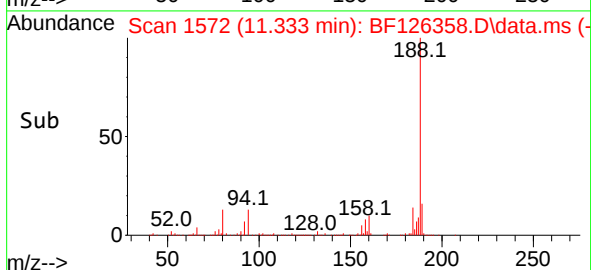
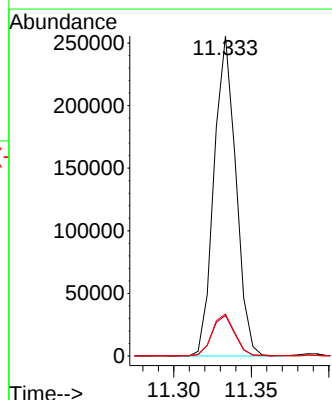
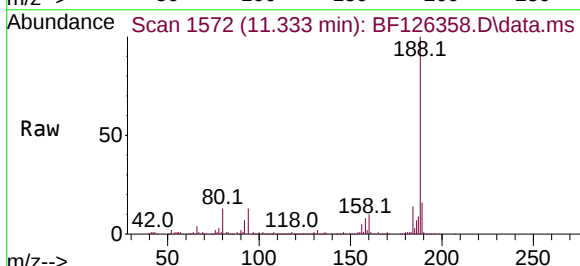
Tgt Ion:188 Resp: 250480

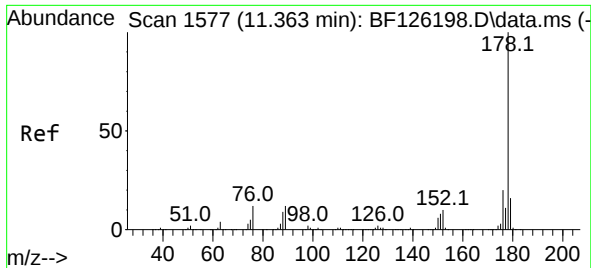
Ion Ratio Lower Upper

188 100

94 12.6 6.7 10.1#

80 13.1 7.5 11.3#

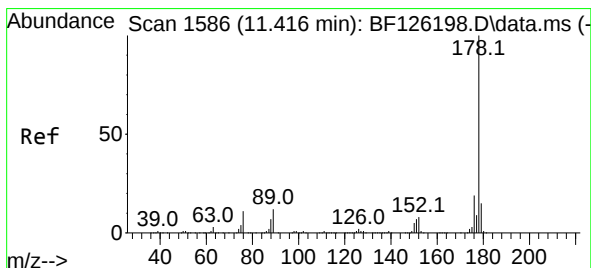
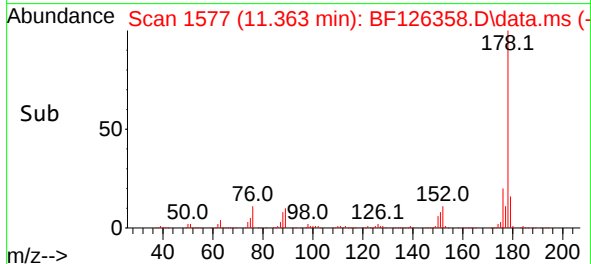
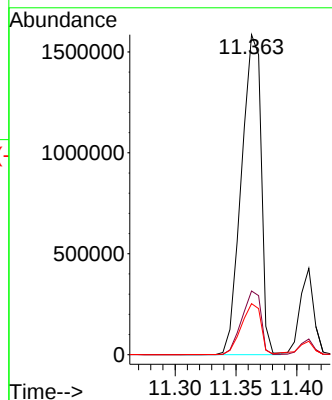
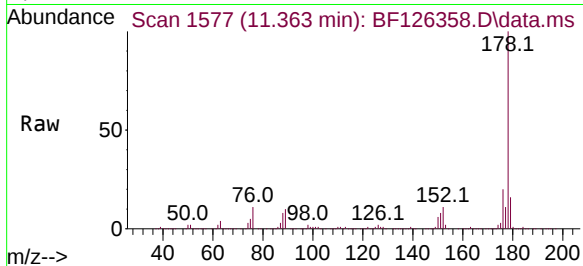




#71
Phenanthrene
Concen: 137.996 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

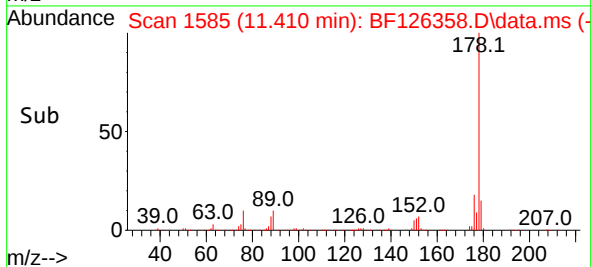
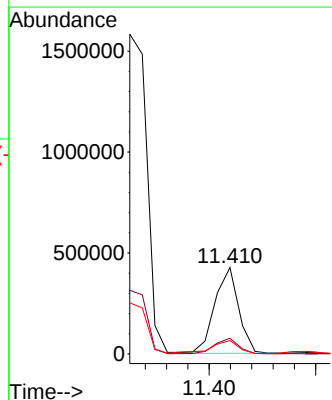
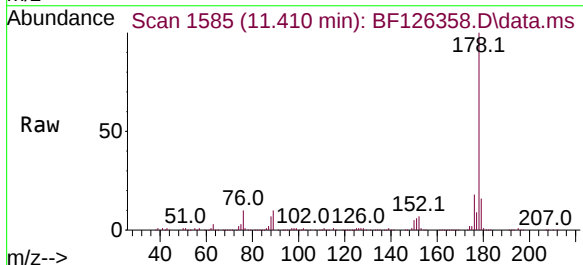
Instrument :
BNA_F
ClientSampleId :
SB-21-G2

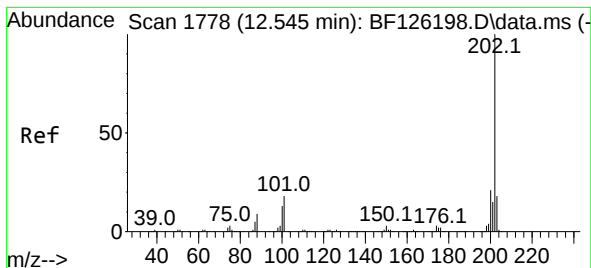
Tgt Ion:178 Resp: 1784018
Ion Ratio Lower Upper
178 100
176 19.9 14.7 22.1
179 16.0 11.5 17.3



#72
Anthracene
Concen: 25.532 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion:178 Resp: 331300
Ion Ratio Lower Upper
178 100
176 18.1 14.3 21.5
179 15.5 12.2 18.4





#75

Fluoranthene

Concen: 78.186 ng

RT: 12.551 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

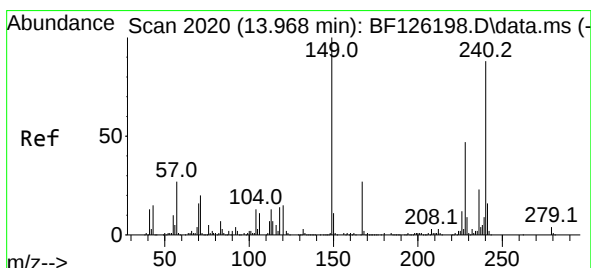
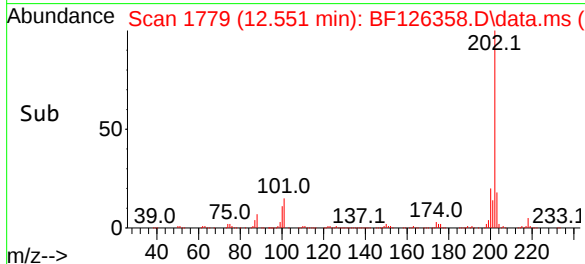
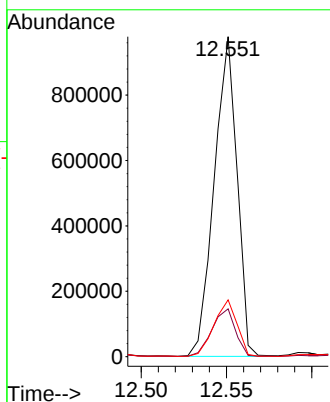
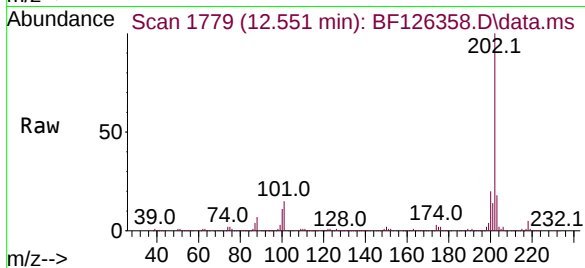
Tgt Ion:202 Resp: 910702

Ion Ratio Lower Upper

202 100

101 14.9 0.0 30.7

203 17.8 0.0 36.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 2021

Delta R.T. -0.006 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

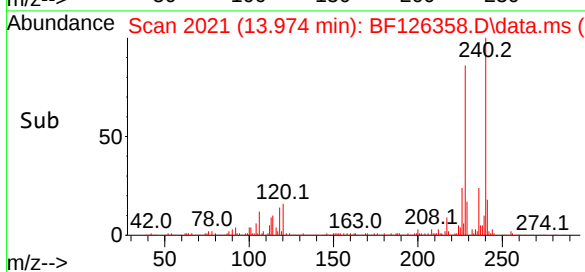
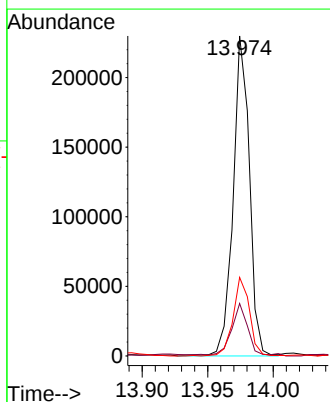
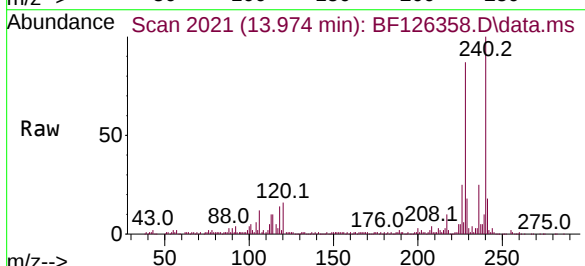
Tgt Ion:240 Resp: 198813

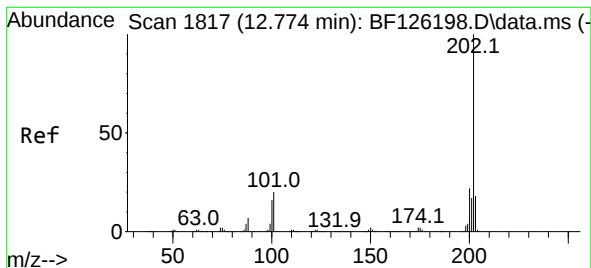
Ion Ratio Lower Upper

240 100

120 16.4 10.8 16.2#

236 24.6 21.6 32.4





#78

Pyrene

Concen: 75.587 ng

RT: 12.780 min Scan# 1817

Delta R.T. 0.000 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

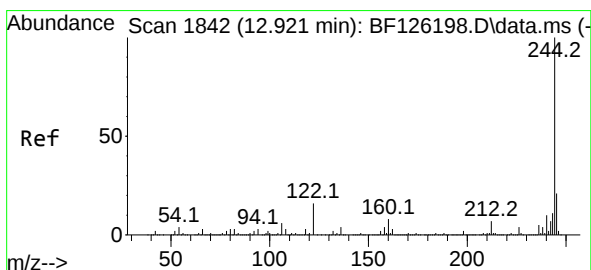
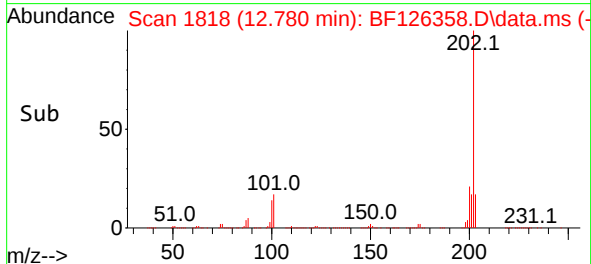
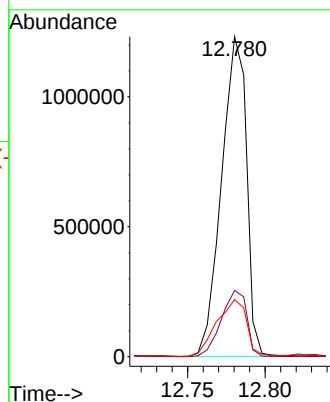
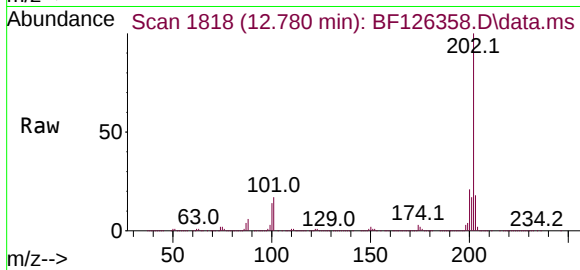
Tgt Ion:202 Resp: 1380620

Ion Ratio Lower Upper

202 100

200 20.7 15.3 22.9

203 17.9 13.4 20.0



#79

Terphenyl-d14

Concen: 44.818 ng

RT: 12.921 min Scan# 1842

Delta R.T. -0.006 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

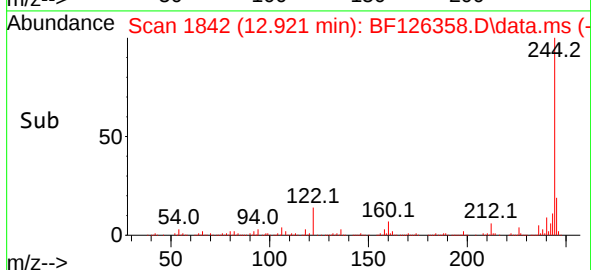
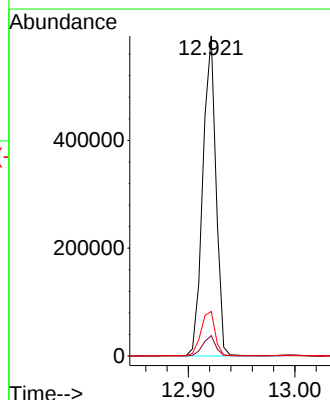
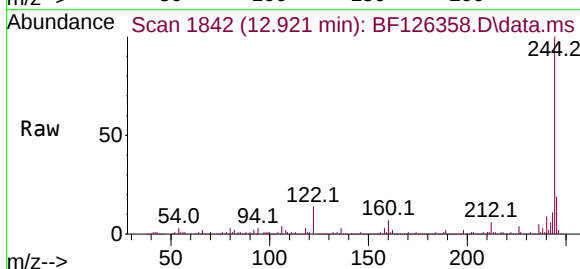
Tgt Ion:244 Resp: 512650

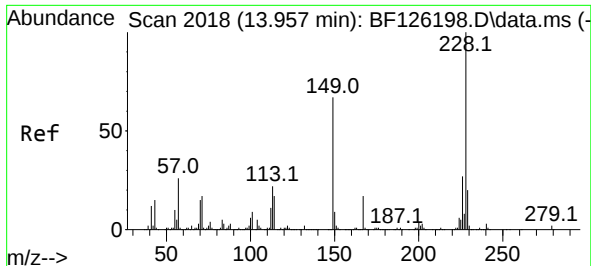
Ion Ratio Lower Upper

244 100

212 6.3 5.9 8.9

122 13.9 9.0 13.4#

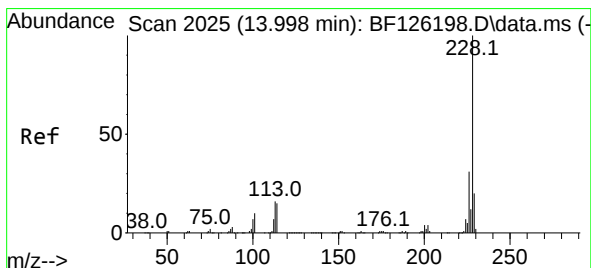
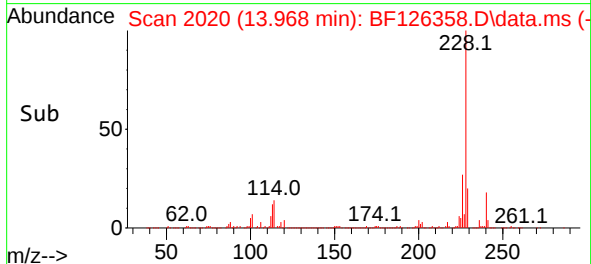
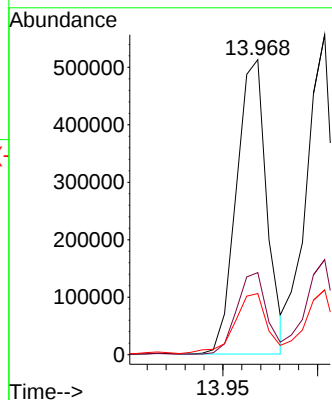
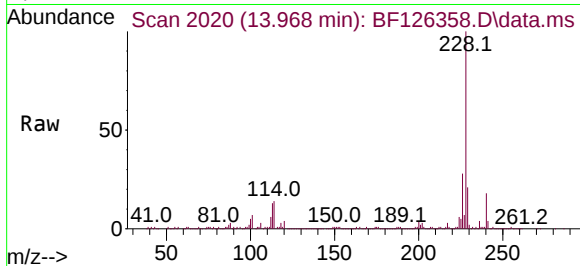




#81
Benzo(a)anthracene
Concen: 48.481 ng
RT: 13.968 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

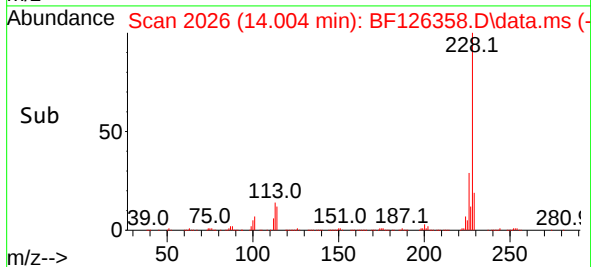
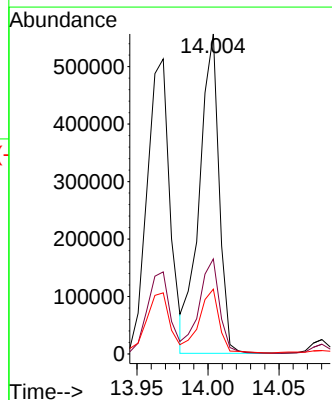
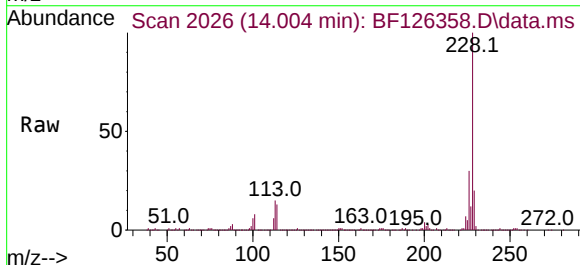
Instrument :
BNA_F
ClientSampleId :
SB-21-G2

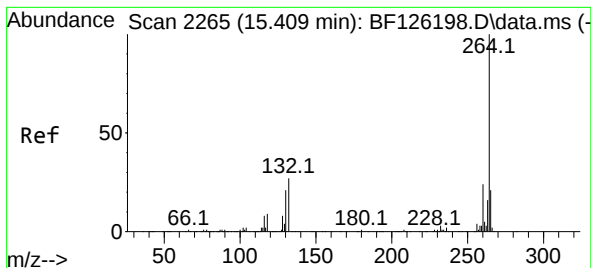
Tgt Ion:228 Resp: 570939
Ion Ratio Lower Upper
228 100
226 27.8 21.6 32.4
229 20.7 15.6 23.4



#83
Chrysene
Concen: 43.869 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF126358.D
Acq: 27 Dec 2021 16:29

Tgt Ion:228 Resp: 536776
Ion Ratio Lower Upper
228 100
226 29.7 22.6 34.0
229 20.3 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

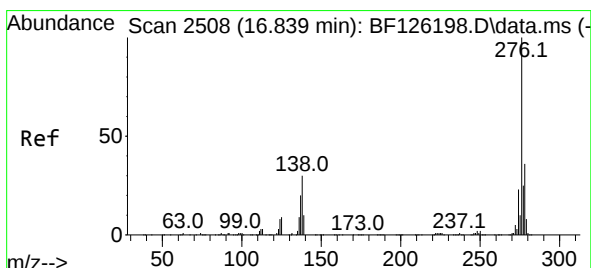
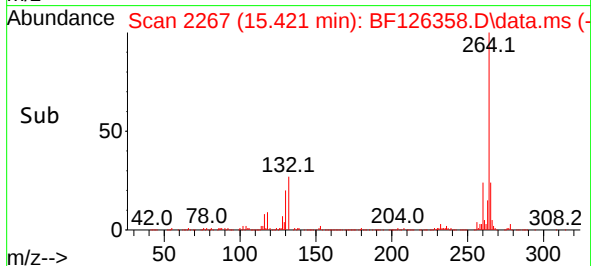
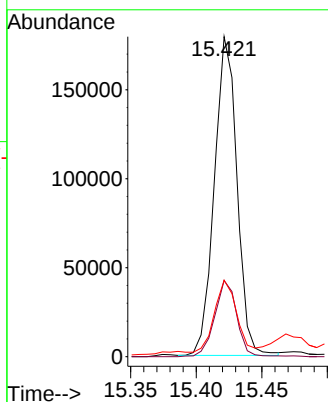
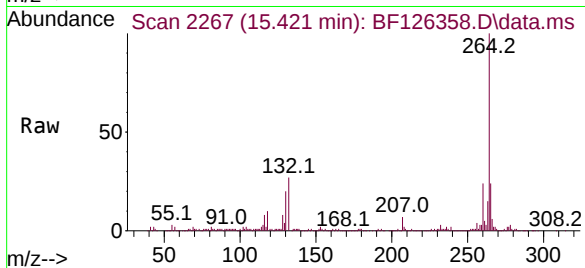
Tgt Ion:264 Resp: 214583

Ion Ratio Lower Upper

264 100

260 23.8 19.6 29.4

265 23.9 17.2 25.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.133 ng

RT: 16.845 min Scan# 2509

Delta R.T. -0.018 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

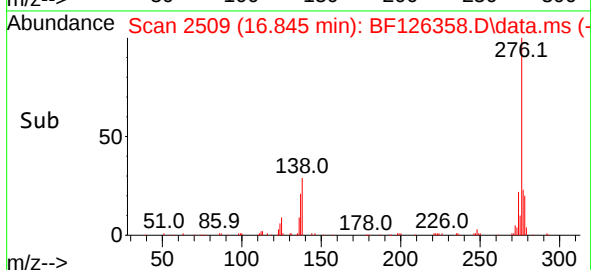
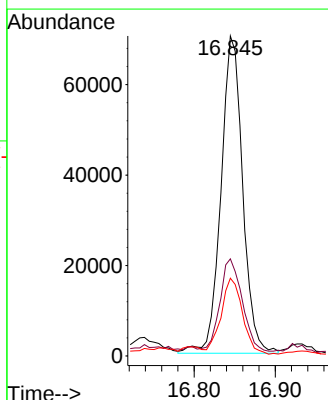
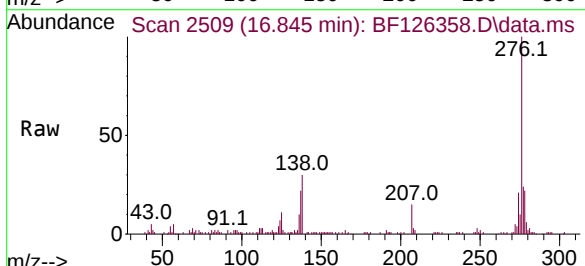
Tgt Ion:276 Resp: 130727

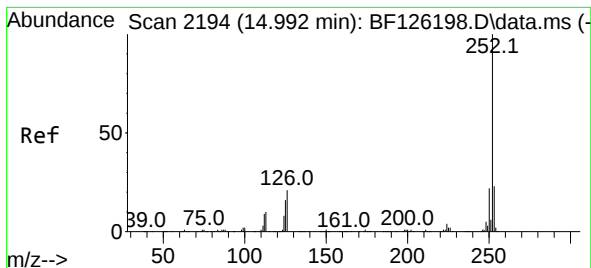
Ion Ratio Lower Upper

276 100

138 29.7 24.1 36.1

277 23.6 18.8 28.2





#88

Benzo(b)fluoranthene

Concen: 43.549 ng

RT: 15.010 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

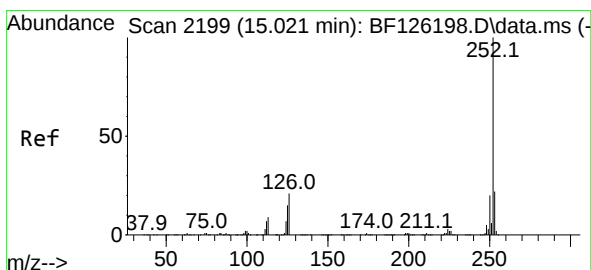
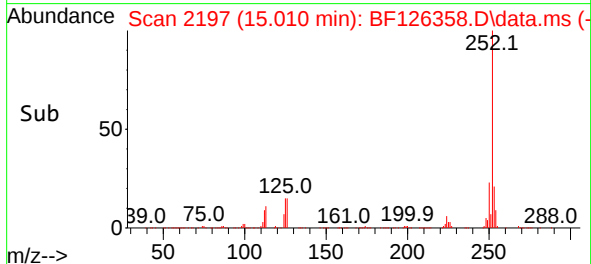
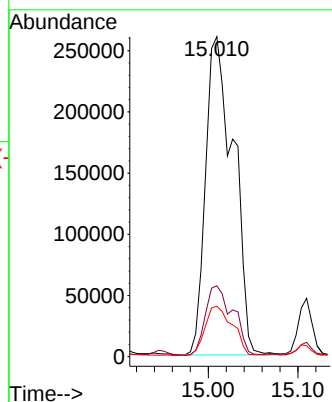
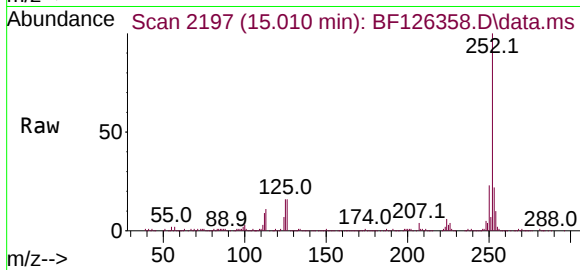
Tgt Ion:252 Resp: 561495

Ion Ratio Lower Upper

252 100

253 22.1 16.8 25.2

125 15.8 9.8 14.8#



#89

Benzo(k)fluoranthene

Concen: 45.524 ng

RT: 15.010 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

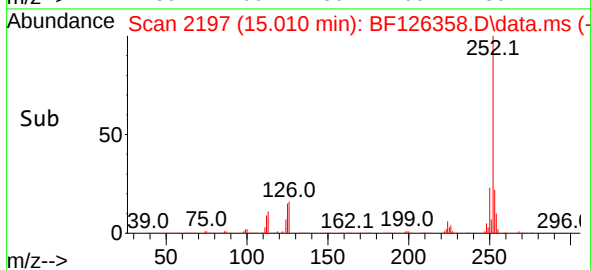
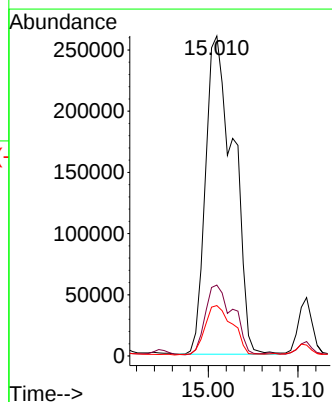
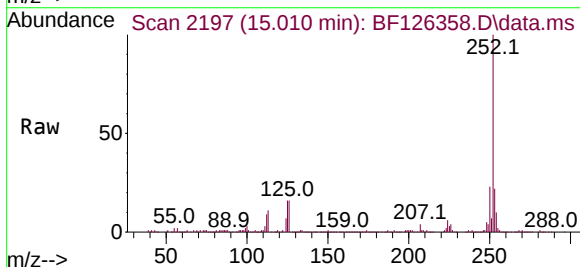
Tgt Ion:252 Resp: 561495

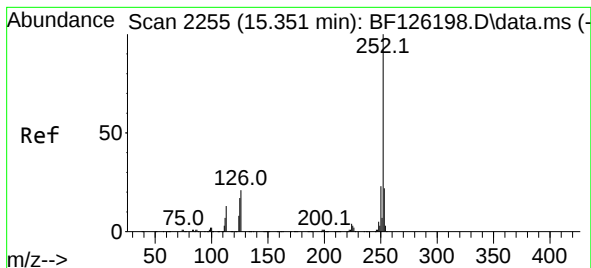
Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

125 15.8 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 32.772 ng

RT: 15.362 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2

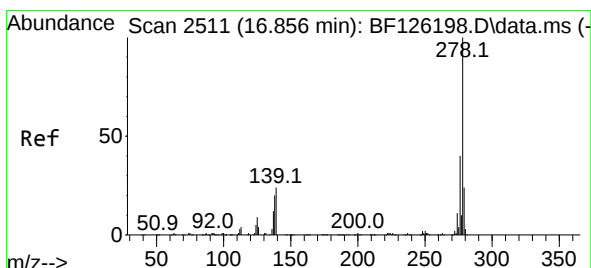
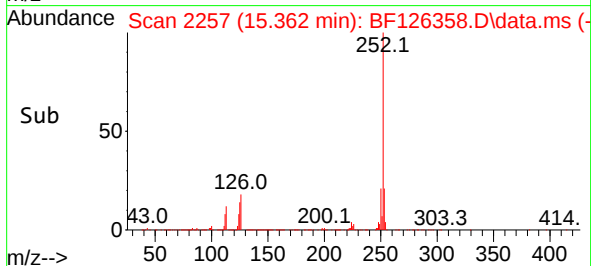
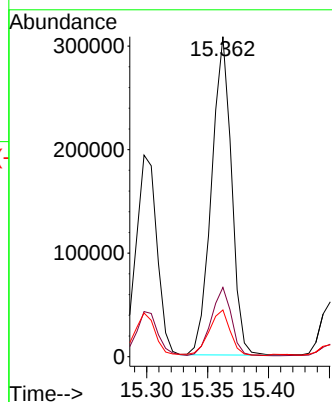
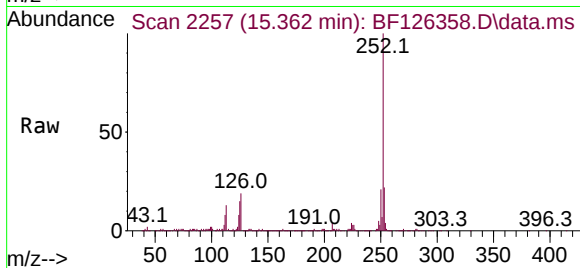
Tgt Ion:252 Resp: 351182

Ion Ratio Lower Upper

252 100

253 21.7 18.4 27.6

125 14.6 9.9 14.9



#91

Dibenzo(a,h)anthracene

Concen: 3.385 ng

RT: 17.080 min Scan# 2549

Delta R.T. 0.200 min

Lab File: BF126358.D

Acq: 27 Dec 2021 16:29

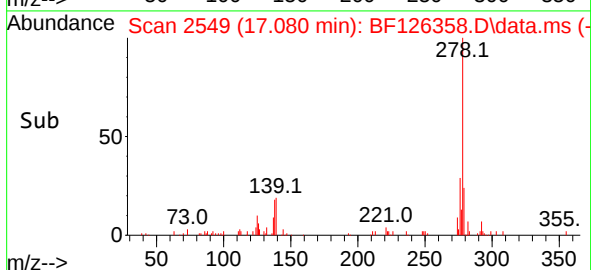
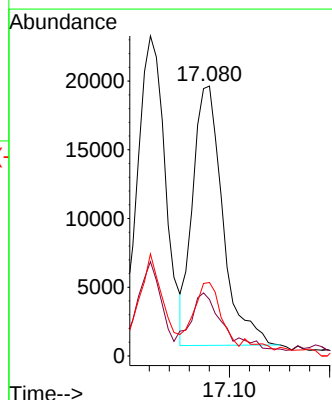
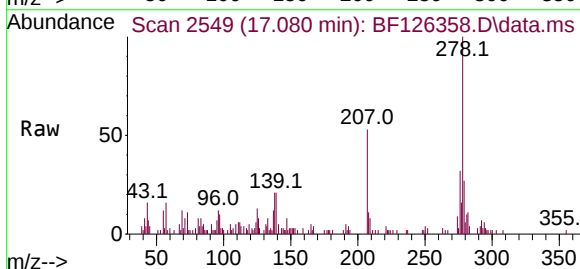
Tgt Ion:278 Resp: 39380

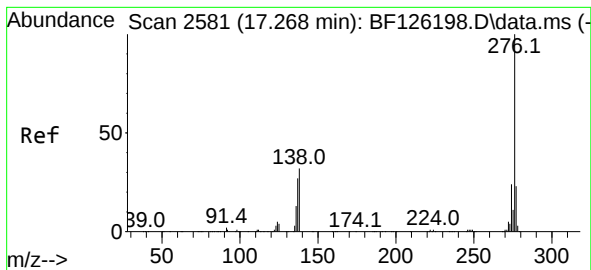
Ion Ratio Lower Upper

278 100

139 21.0 14.9 22.3

279 27.2 19.7 29.5





#92

Benzo(g,h,i)perylene

Concen: 9.495 ng

RT: 17.274 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF126358.D

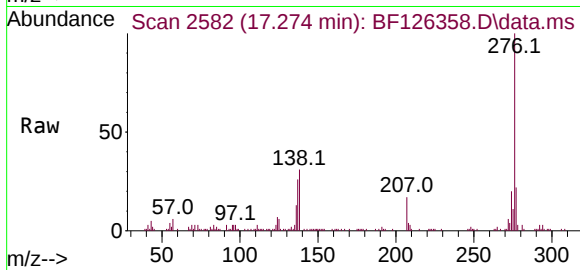
Acq: 27 Dec 2021 16:29

Instrument :

BNA_F

ClientSampleId :

SB-21-G2



Tgt Ion:276 Resp: 114308

Ion Ratio Lower Upper

276 100

277 22.2 22.0 33.0

138 30.6 22.2 33.4

