

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
 Data File : BF141389.D
 Acq On : 04 Feb 2025 00:23
 Operator : RC/JU
 Sample : Q1262-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ETGI-371

Quant Time: Feb 04 01:55:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

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

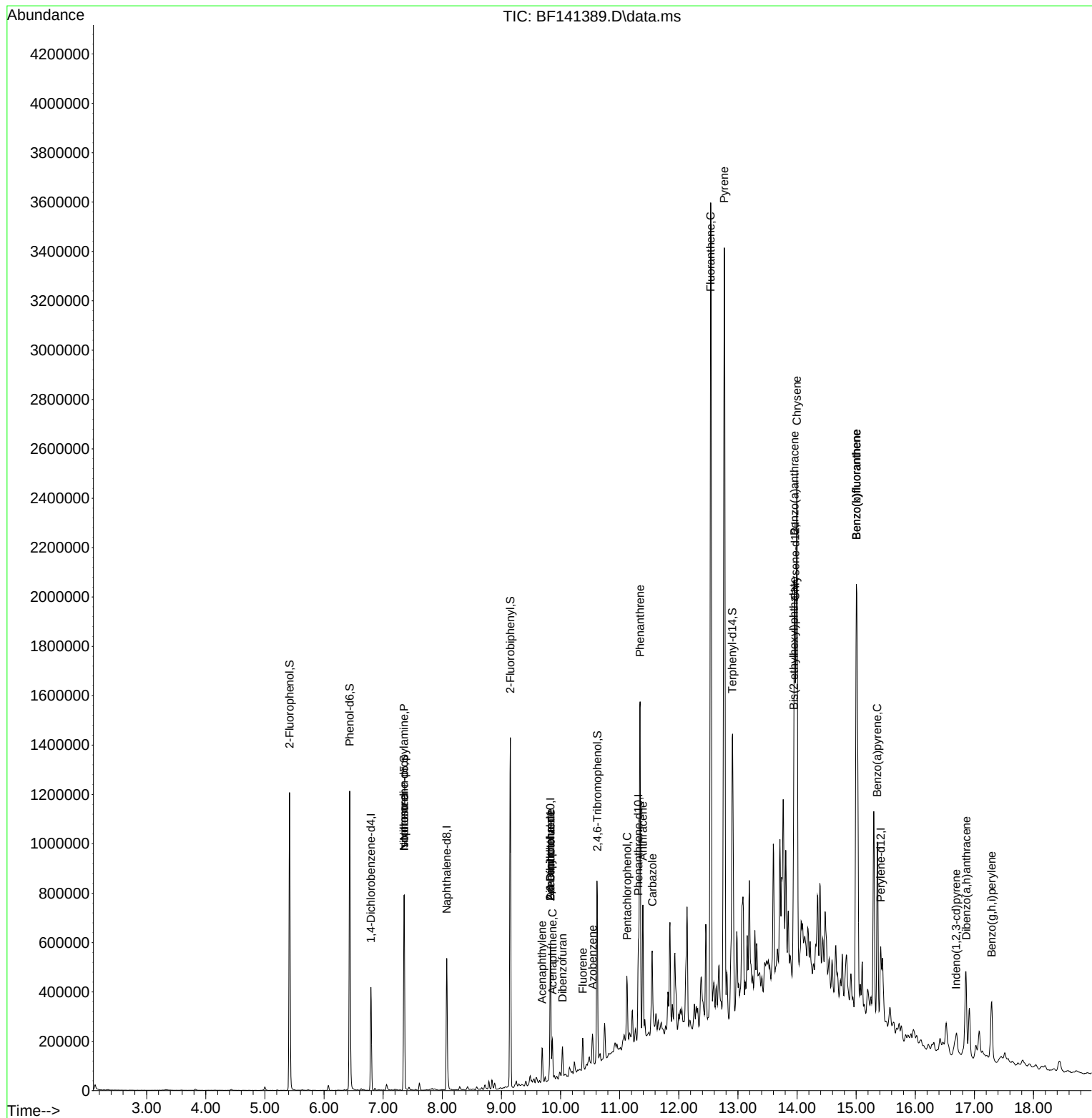
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	81640	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	319733	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	153664	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	206552	20.000	ng	-0.01
76) Chrysene-d12	13.969	240	169245	20.000	ng	0.00
86) Perylene-d12	15.415	264	143929	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	432229	81.279	ng	0.00
7) Phenol-d6	6.434	99	520227	76.900	ng	0.00
23) Nitrobenzene-d5	7.351	82	342119	56.407	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	106770	75.791	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	602872	60.387	ng	-0.01
79) Terphenyl-d14	12.904	244	486444	44.325	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.351	70	47409	11.794	ng	# 76
25) Isophorone	7.351	82	338965	32.331	ng	# 64
49) Acenaphthylene	9.686	152	84519	6.464	ng	100
50) Dimethylphthalate	9.828	163	23074	2.223	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	21547	8.942	ng	# 25
52) Acenaphthene	9.863	154	46294	4.956	ng	98
55) Dibenzofuran	10.033	168	60556	4.843	ng	98
57) 2,4-Dinitrotoluene	9.828	165	21547	6.906	ng	# 25
58) Fluorene	10.375	166	47574	4.905	ng	98
63) Azobenzene	10.539	77	24382	2.421	ng	# 1
70) Pentachlorophenol	11.128	266	20294	14.129	ng	97
71) Phenanthrene	11.345	178	759684	68.421	ng	99
72) Anthracene	11.392	178	312877	28.760	ng	98
73) Carbazole	11.551	167	182629	18.932	ng	98
75) Fluoranthene	12.539	202	2083202	190.022	ng	99
78) Pyrene	12.769	202	1998296	123.003	ng	98
81) Benzo(a)anthracene	13.957	228	900753	77.127	ng	92
83) Chrysene	13.998	228	1166356	108.971	ng	97
84) Bis(2-ethylhexyl)phtha...	13.945	149	24970	3.468	ng	95
87) Indeno(1,2,3-cd)pyrene	16.692	276	55777	6.004	ng	92
88) Benzo(b)fluoranthene	15.004	252	1572002	173.634	ng	98
89) Benzo(k)fluoranthene	15.004	252	1572002	196.002	ng	99
90) Benzo(a)pyrene	15.357	252	422232	55.189	ng	96
91) Dibenzo(a,h)anthracene	16.862	278	66599	8.911	ng	96
92) Benzo(g,h,i)perylene	17.292	276	220098	28.322	ng	94

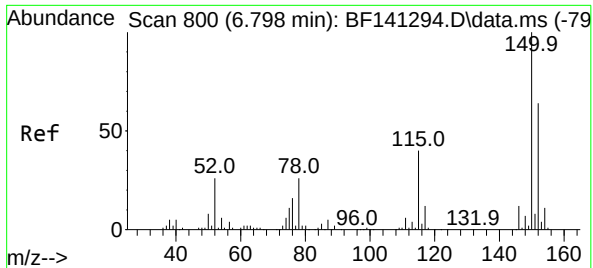
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141389.D
Acq On : 04 Feb 2025 00:23
Operator : RC/JU
Sample : Q1262-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ETGI-371

Quant Time: Feb 04 01:55:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

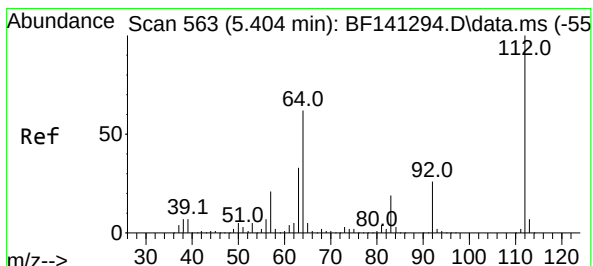
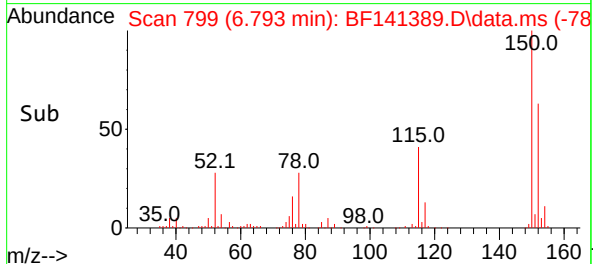
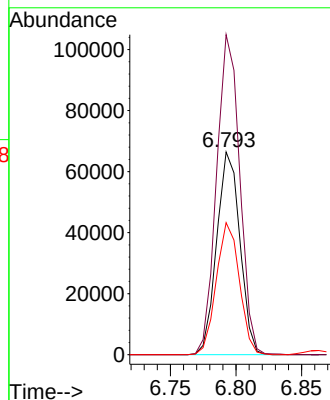
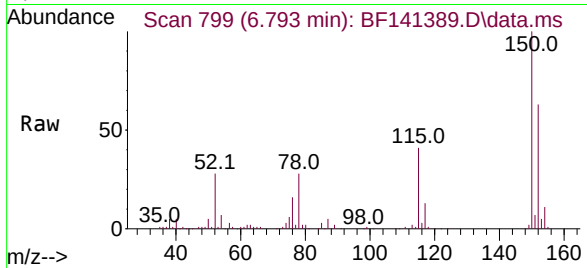




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

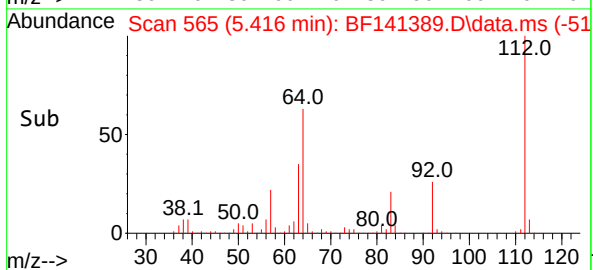
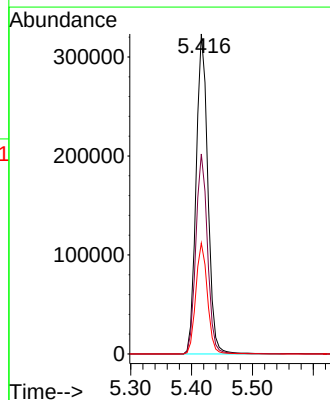
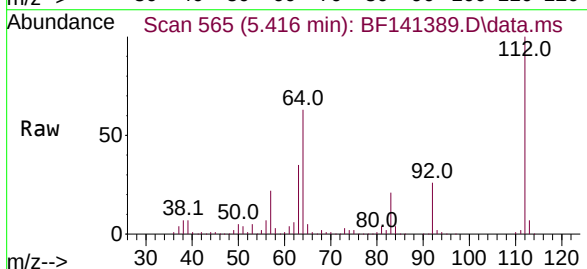
Instrument :
BNA_F
ClientSampleId :
ETGI-371

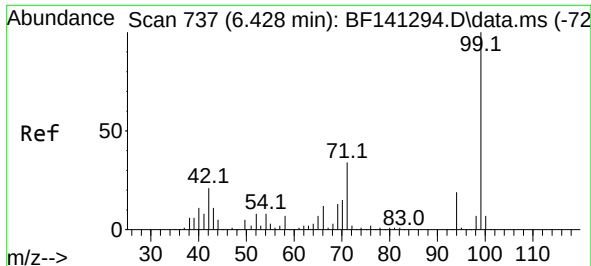
Tgt Ion:152 Resp: 81640
Ion Ratio Lower Upper
152 100
150 157.8 125.9 188.9
115 65.1 49.7 74.5



#5
2-Fluorophenol
Concen: 81.279 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:112 Resp: 432229
Ion Ratio Lower Upper
112 100
64 62.5 49.8 74.8
63 34.7 26.1 39.1

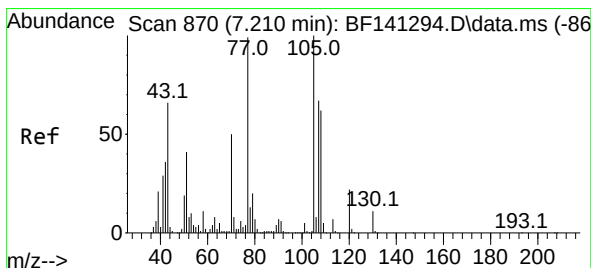
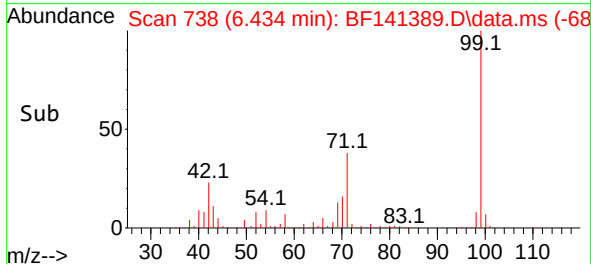
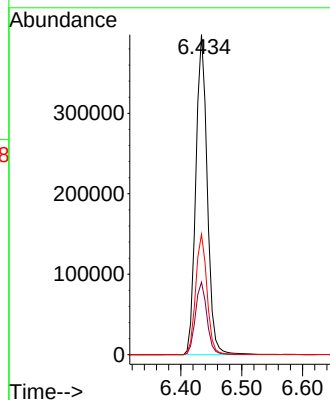
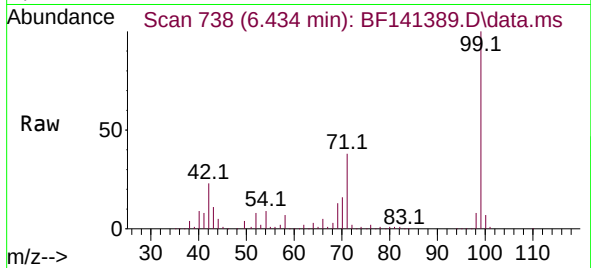




#7
Phenol-d6
Concen: 76.900 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

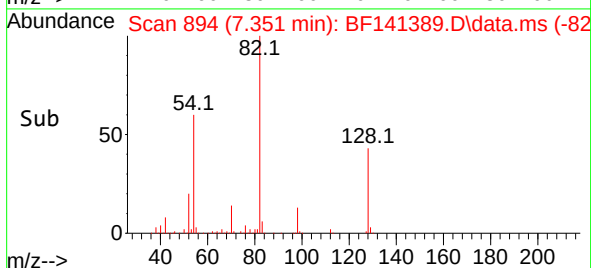
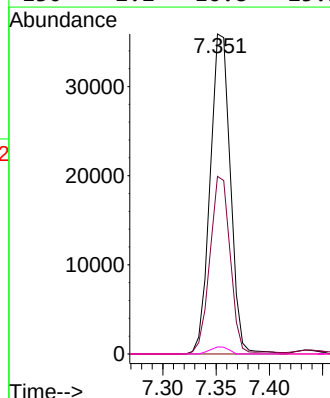
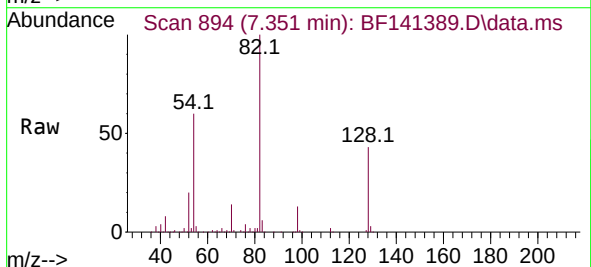
Instrument :
BNA_F
ClientSampleId :
ETGI-371

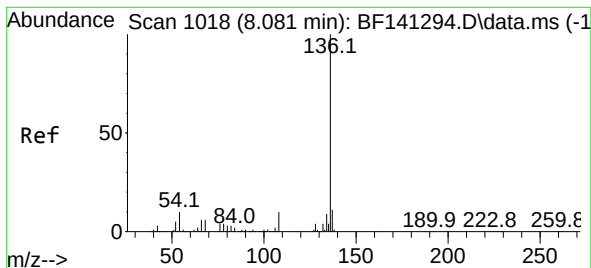
Tgt Ion: 99 Resp: 520227
Ion Ratio Lower Upper
99 100
42 22.6 17.1 25.7
71 37.7 26.9 40.3



#19
n-Nitroso-di-n-propylamine
Concen: 11.794 ng
RT: 7.351 min Scan# 894
Delta R.T. 0.123 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion: 70 Resp: 47409
Ion Ratio Lower Upper
70 100
42 55.5 56.8 85.2#
101 0.0 7.7 11.5#
130 2.2 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1017

Delta R.T. -0.012 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

Tgt Ion:136 Resp: 319733

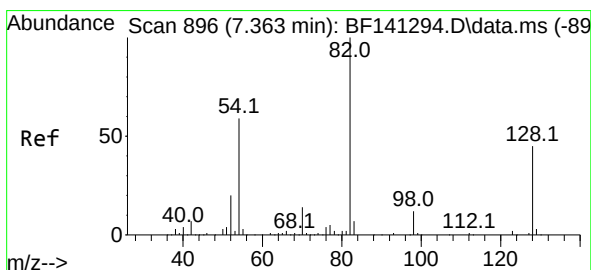
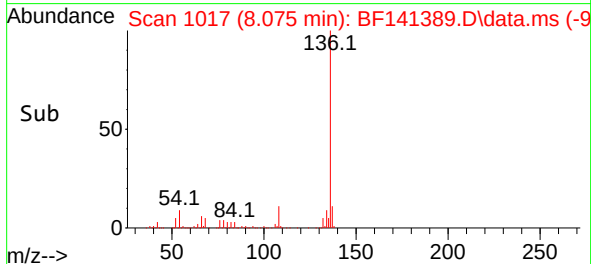
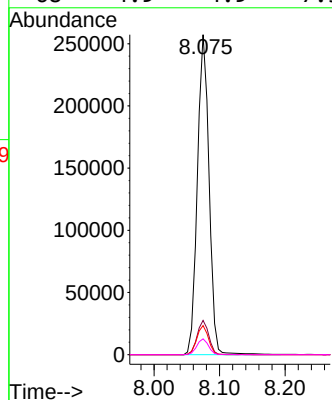
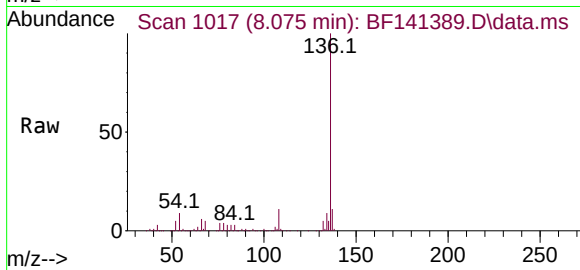
Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 9.1 7.8 11.8

68 4.9 4.9 7.3



#23

Nitrobenzene-d5

Concen: 56.407 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.018 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

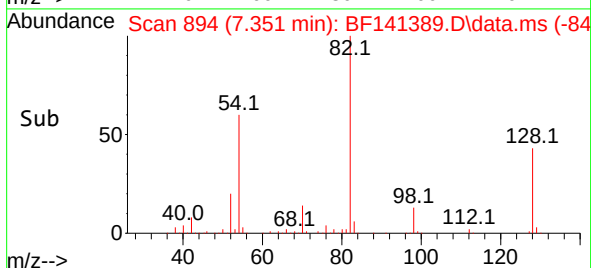
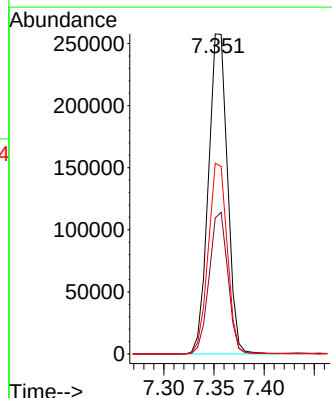
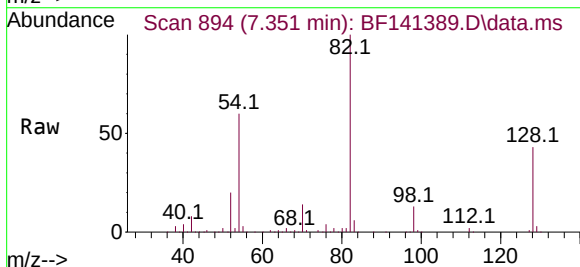
Tgt Ion: 82 Resp: 342119

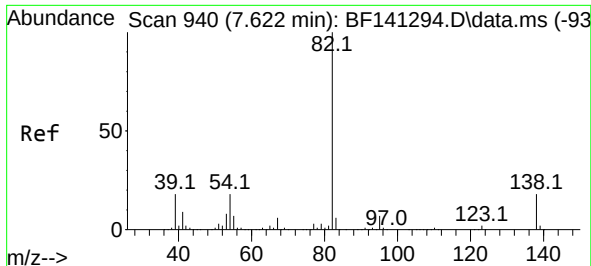
Ion Ratio Lower Upper

82 100

128 42.5 35.7 53.5

54 59.6 47.1 70.7

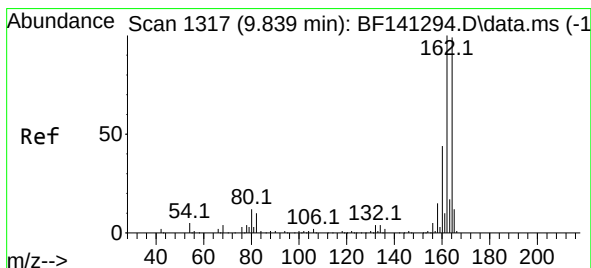
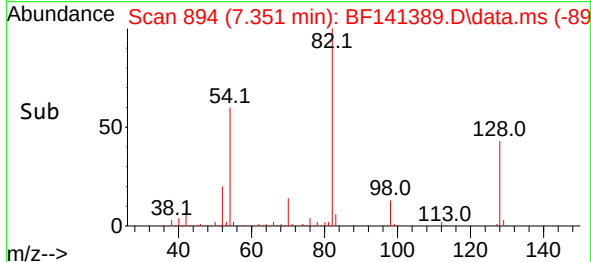
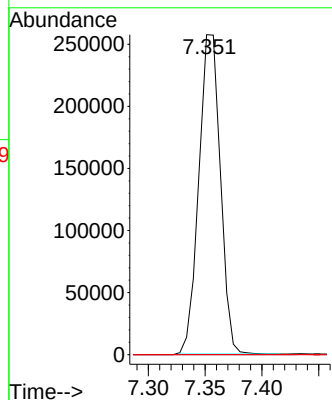
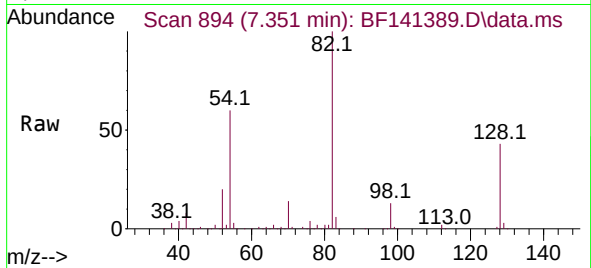




#25
Isophorone
Concen: 32.331 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.277 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

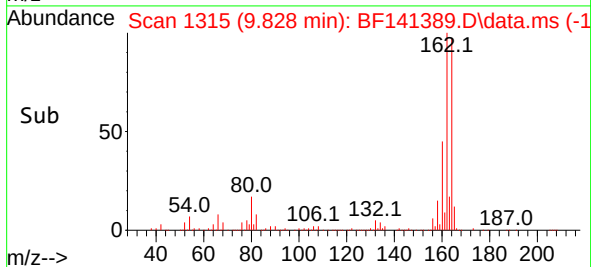
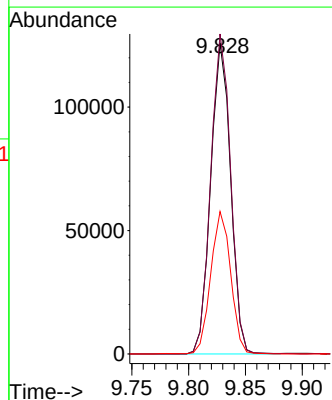
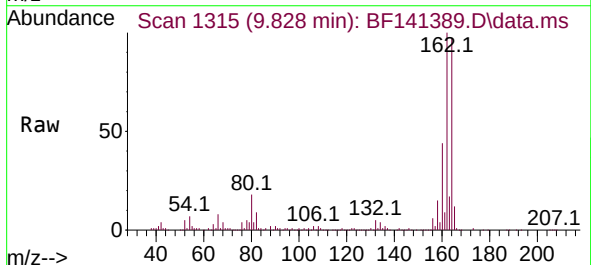
Instrument :
BNA_F
ClientSampleId :
ETGI-371

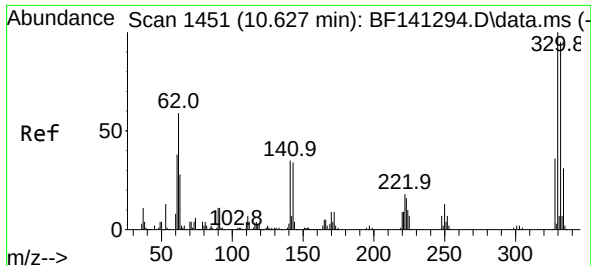
Tgt Ion: 82 Resp: 338965
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.6#
138 0.0 14.7 22.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:164 Resp: 153664
Ion Ratio Lower Upper
164 100
162 103.0 80.6 121.0
160 45.8 35.8 53.6

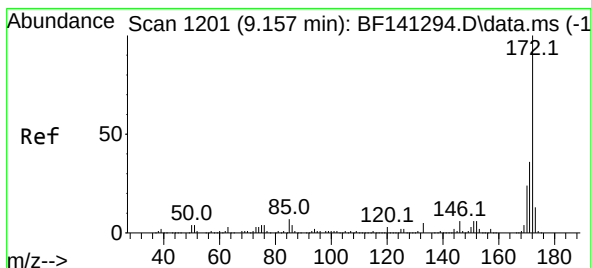
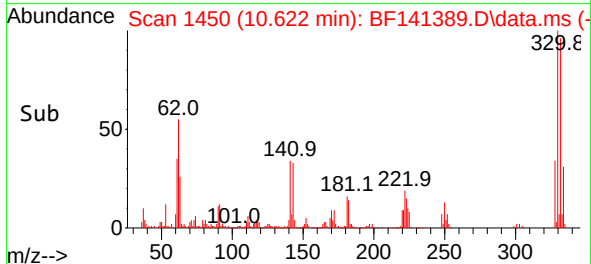
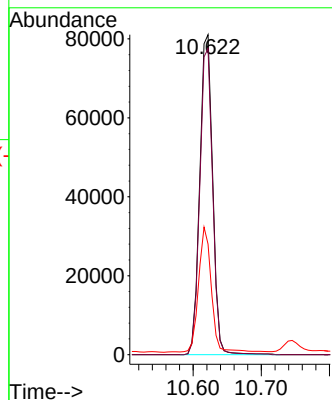
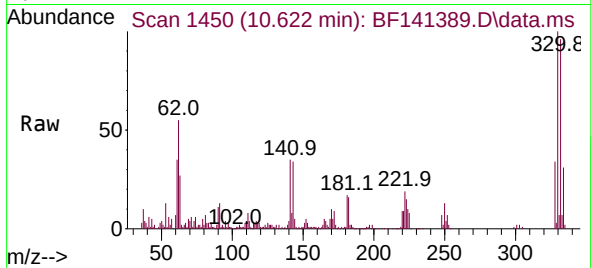




#42
2,4,6-Tribromophenol
Concen: 75.791 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

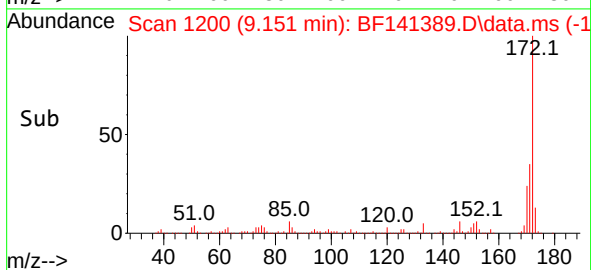
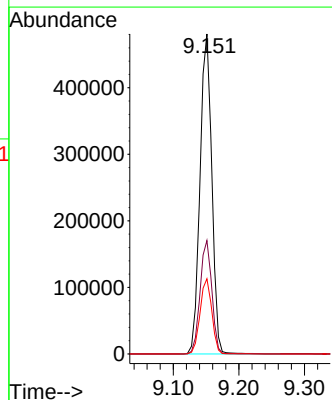
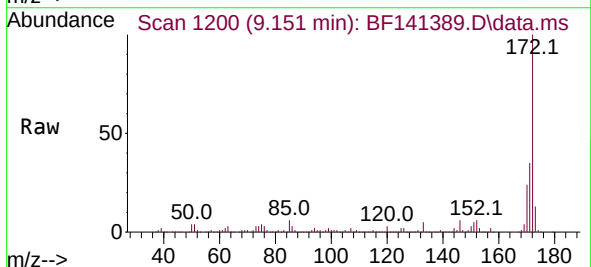
Instrument :
BNA_F
ClientSampleId :
ETGI-371

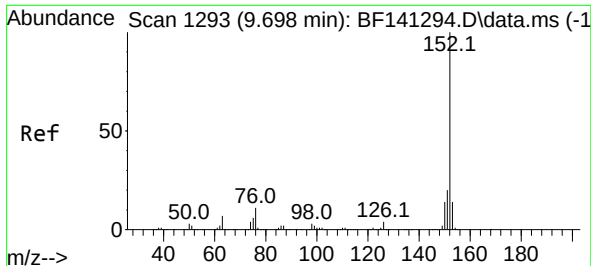
Tgt Ion: 330 Resp: 106770
Ion Ratio Lower Upper
330 100
332 95.4 76.1 114.1
141 39.0 28.8 43.2



#45
2-Fluorobiphenyl
Concen: 60.387 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion: 172 Resp: 602872
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 23.5 19.0 28.6





#49

Acenaphthylene

Concen: 6.464 ng

RT: 9.686 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

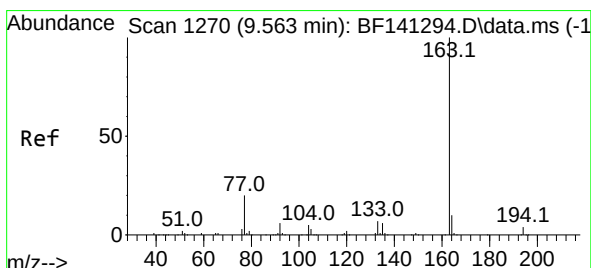
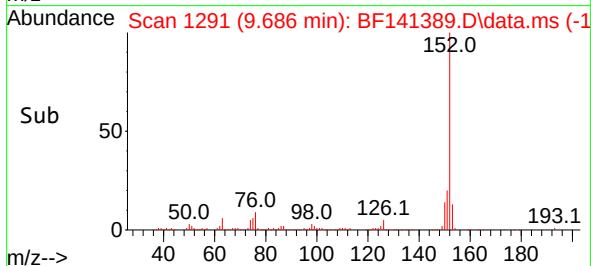
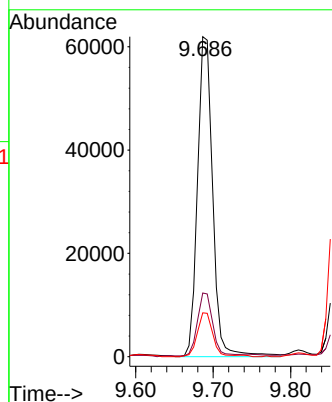
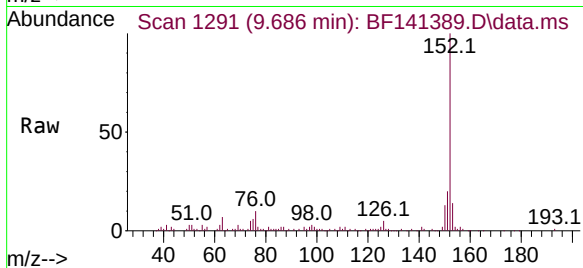
Tgt Ion:152 Resp: 84519

Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

153 13.7 11.0 16.6



#50

Dimethylphthalate

Concen: 2.223 ng

RT: 9.828 min Scan# 1315

Delta R.T. 0.259 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

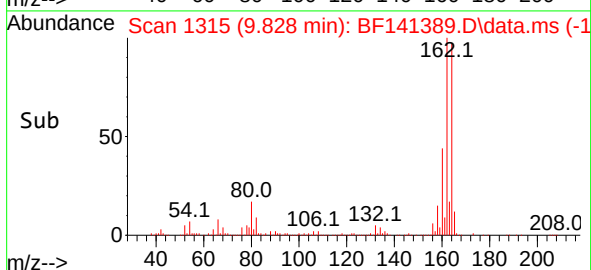
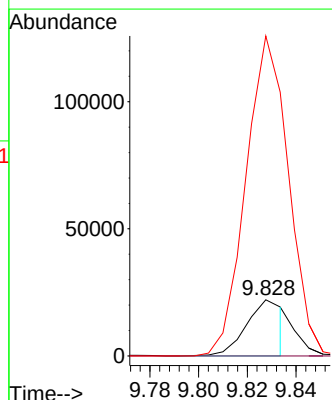
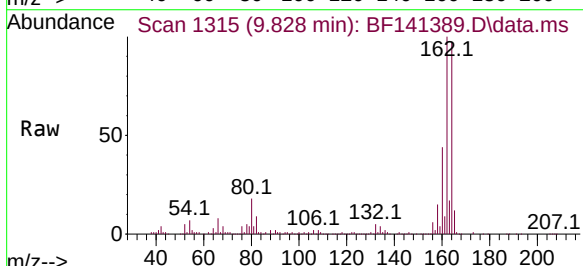
Tgt Ion:163 Resp: 23074

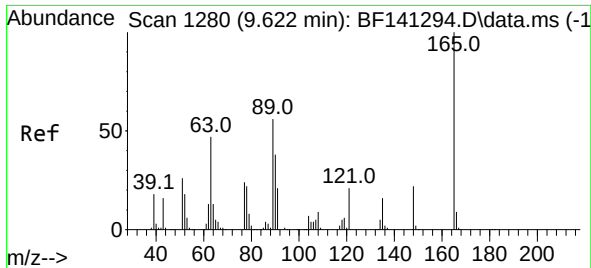
Ion Ratio Lower Upper

163 100

194 0.0 3.0 4.6#

164 570.0 8.0 12.0#

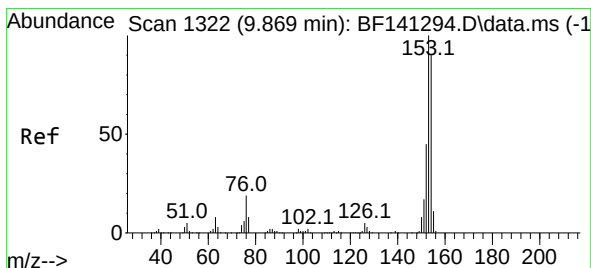
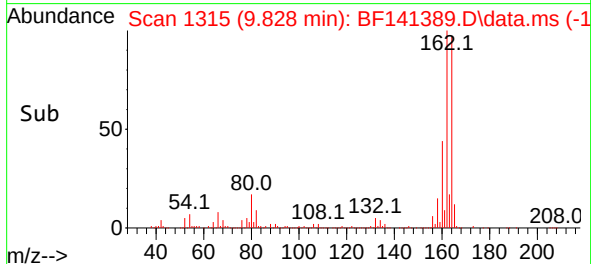
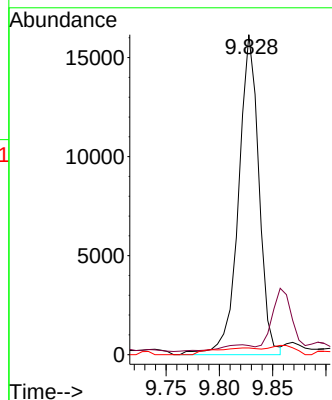
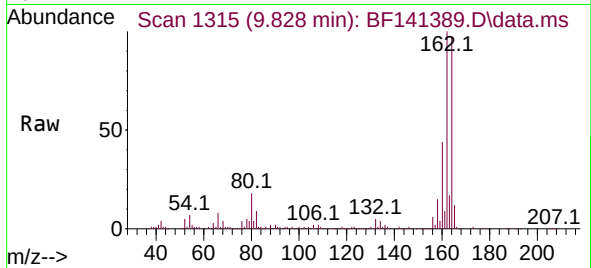




#51
2,6-Dinitrotoluene
Concen: 8.942 ng
RT: 9.828 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

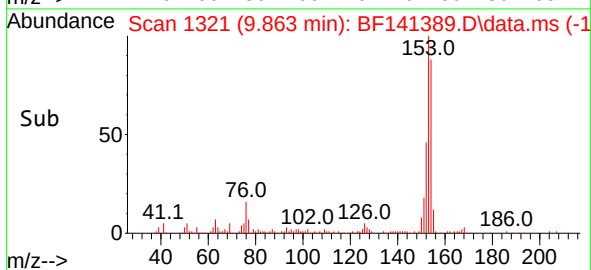
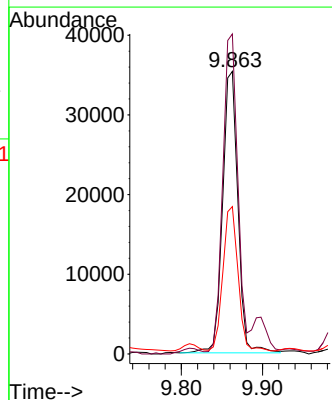
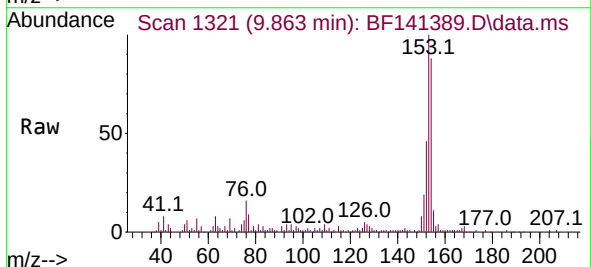
Instrument :
BNA_F
ClientSampleId :
ETGI-371

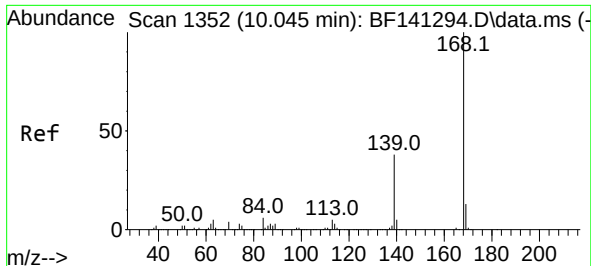
Tgt Ion:165 Resp: 21547
Ion Ratio Lower Upper
165 100
63 2.9 48.1 72.1#
89 2.1 44.9 67.3#



#52
Acenaphthene
Concen: 4.956 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:154 Resp: 46294
Ion Ratio Lower Upper
154 100
153 113.3 89.0 133.4
152 52.1 40.2 60.4

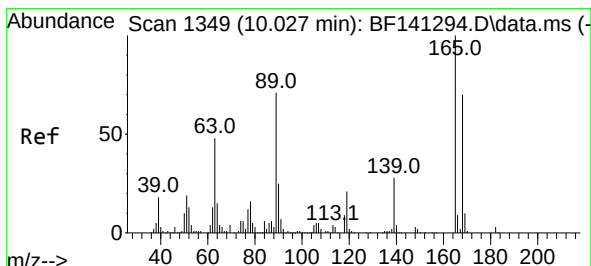
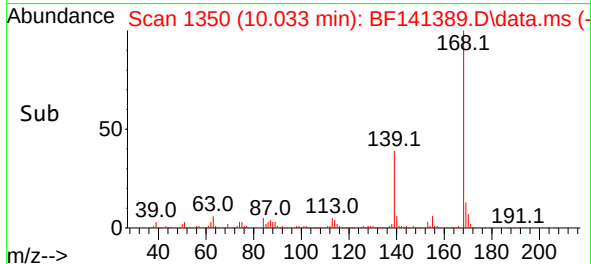
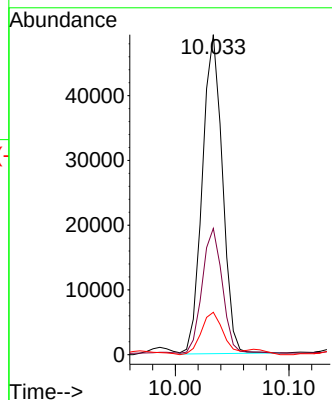
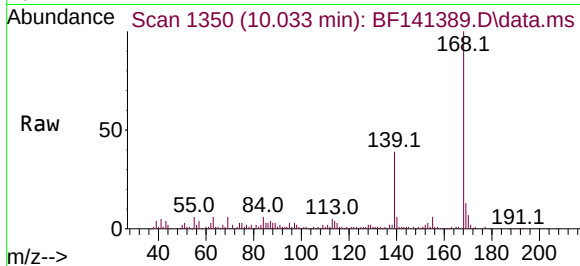




#55
Dibenzenofuran
Concen: 4.843 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

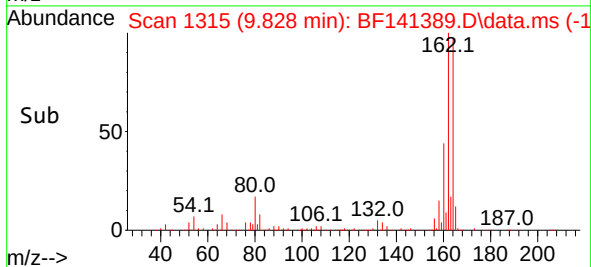
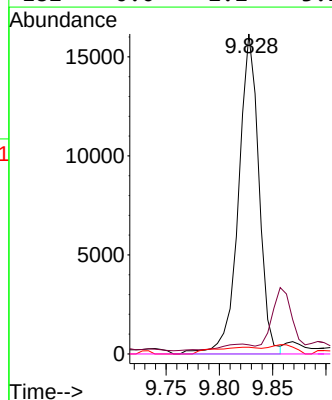
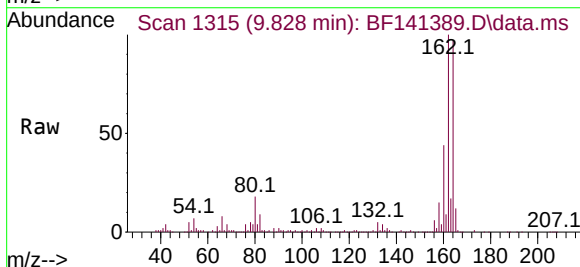
Instrument :
BNA_F
ClientSampleId :
ETGI-371

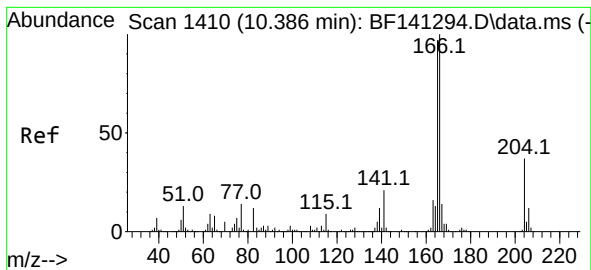
Tgt Ion:168 Resp: 60556
Ion Ratio Lower Upper
168 100
139 39.5 30.6 46.0
169 13.3 10.8 16.2



#57
2,4-Dinitrotoluene
Concen: 6.906 ng
RT: 9.828 min Scan# 1315
Delta R.T. -0.206 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:165 Resp: 21547
Ion Ratio Lower Upper
165 100
63 2.9 39.2 58.8#
89 2.1 56.9 85.3#
182 0.0 2.2 3.2#





#58

Fluorene

Concen: 4.905 ng

RT: 10.375 min Scan# 1408

Delta R.T. -0.018 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

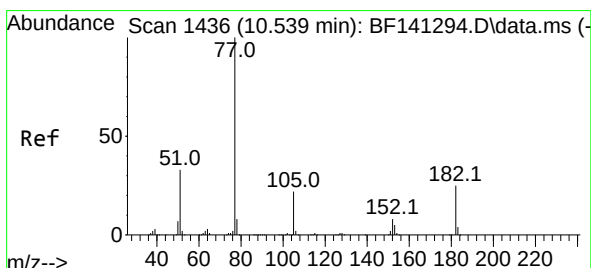
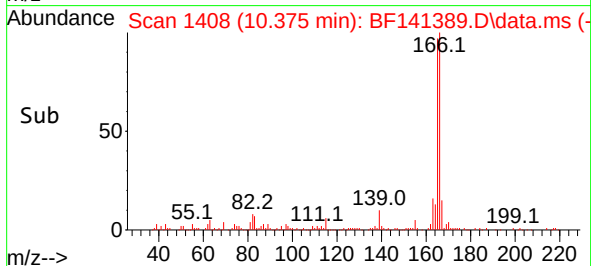
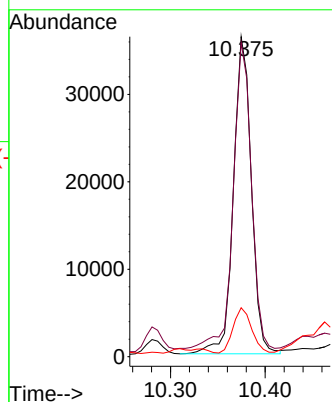
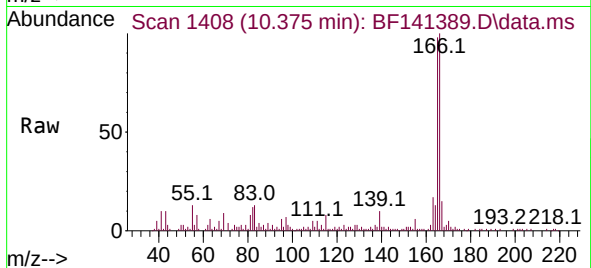
Tgt Ion:166 Resp: 47574

Ion Ratio Lower Upper

166 100

165 98.1 77.5 116.3

167 15.3 10.9 16.3



#63

Azobenzene

Concen: 2.421 ng

RT: 10.539 min Scan# 1436

Delta R.T. -0.006 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Tgt Ion: 77 Resp: 24382

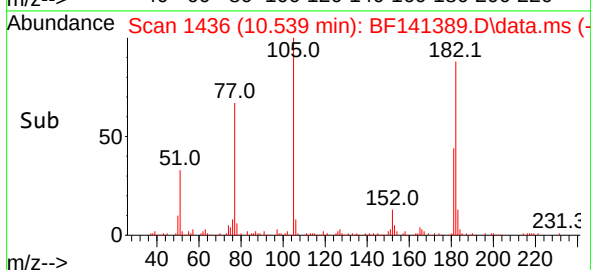
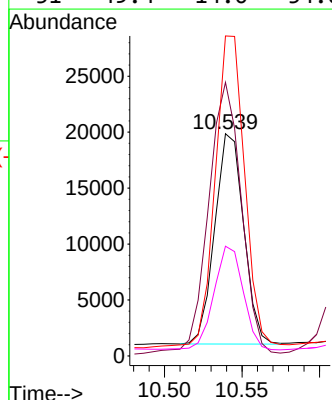
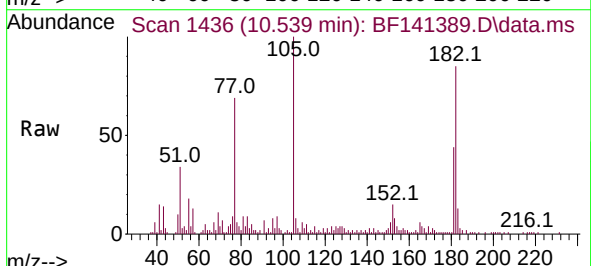
Ion Ratio Lower Upper

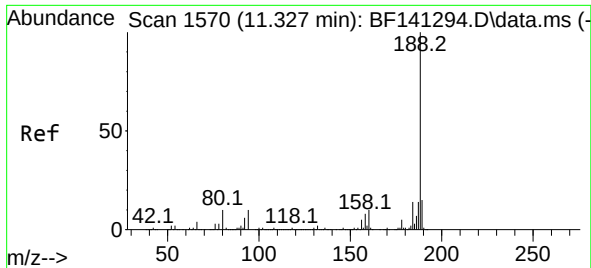
77 100

182 123.1 5.1 45.1#

105 144.0 1.8 41.8#

51 49.4 14.0 54.0

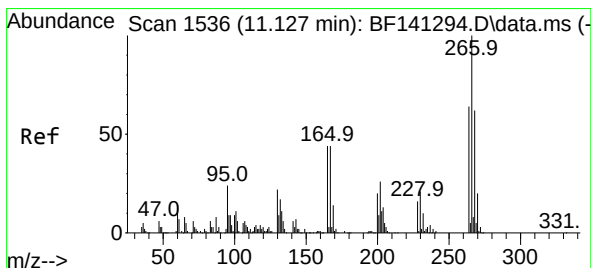
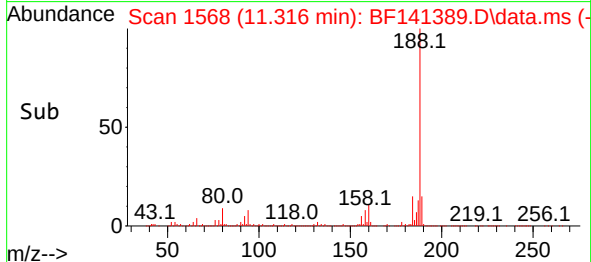
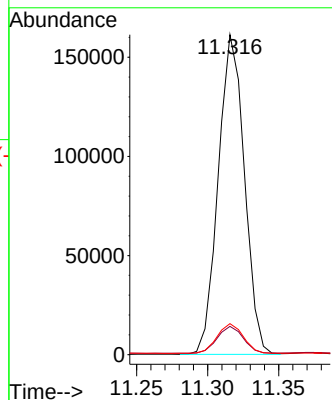
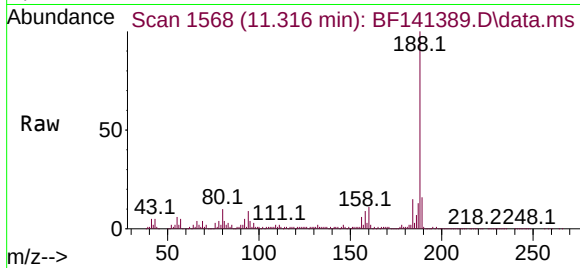




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

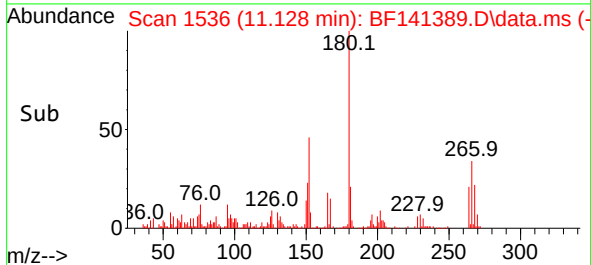
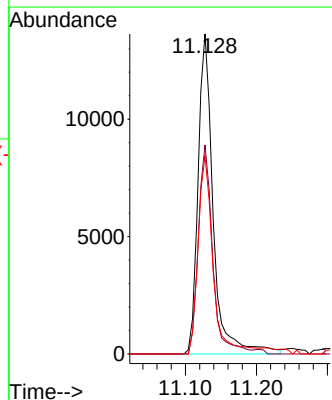
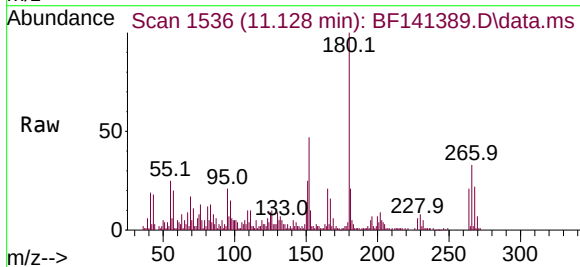
Instrument :
BNA_F
ClientSampleId :
ETGI-371

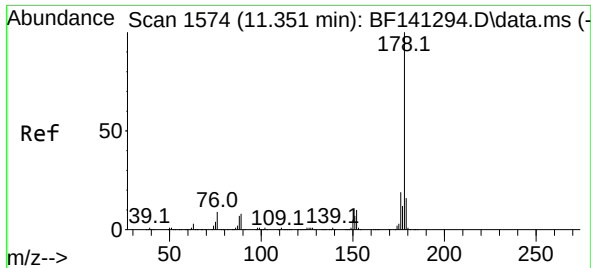
Tgt Ion:188 Resp: 206552
Ion Ratio Lower Upper
188 100
94 8.9 7.8 11.6
80 9.7 8.2 12.4



#70
Pentachlorophenol
Concen: 14.129 ng
RT: 11.128 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:266 Resp: 20294
Ion Ratio Lower Upper
266 100
268 65.3 49.9 74.9
264 61.9 51.0 76.4

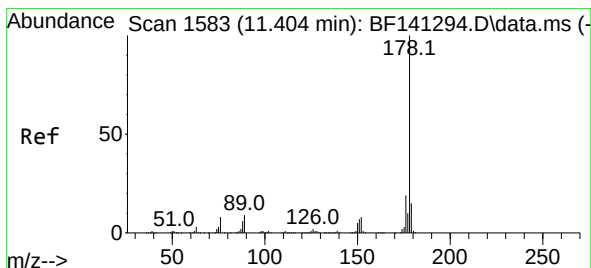
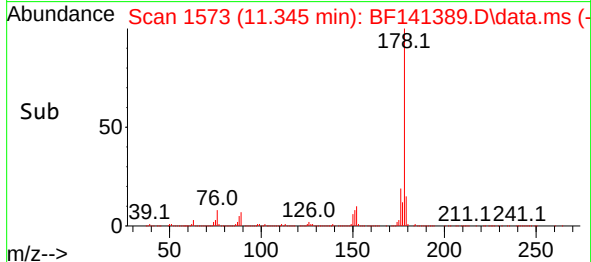
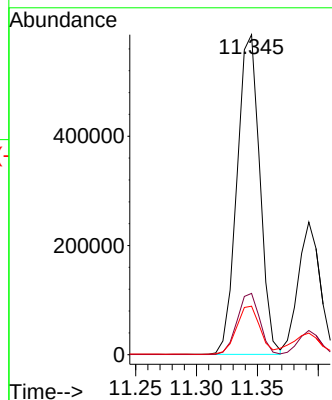
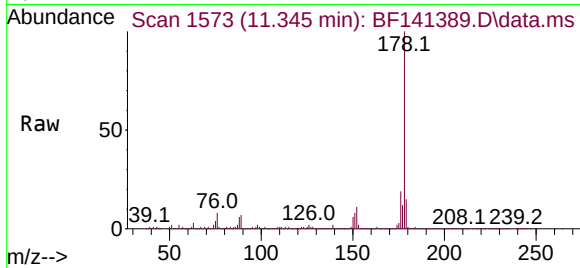




#71
Phenanthrene
Concen: 68.421 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

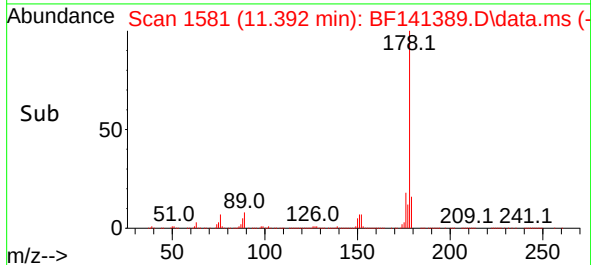
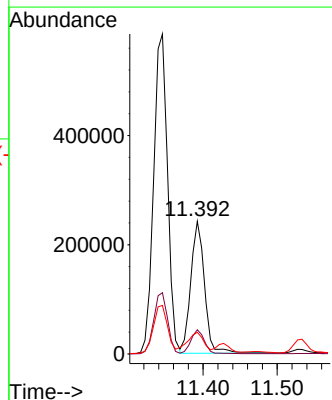
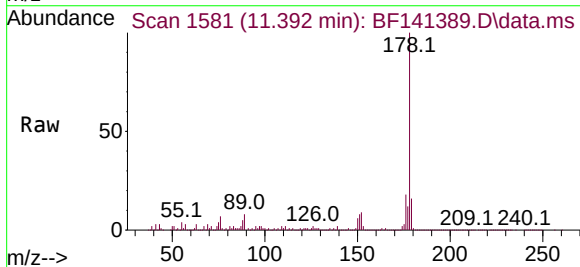
Instrument :
BNA_F
ClientSampleId :
ETGI-371

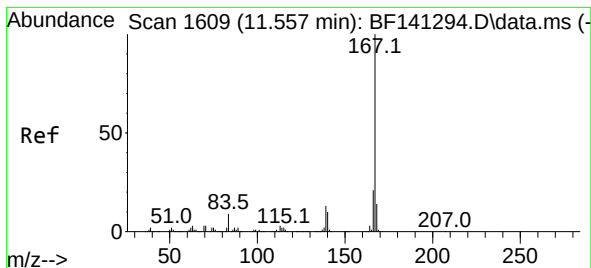
Tgt Ion:178 Resp: 759684
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.5 18.7



#72
Anthracene
Concen: 28.760 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:178 Resp: 312877
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 16.3 12.3 18.5





#73

Carbazole

Concen: 18.932 ng

RT: 11.551 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

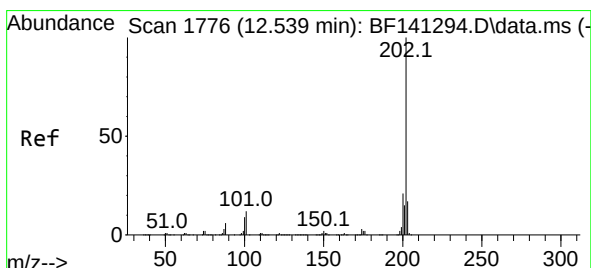
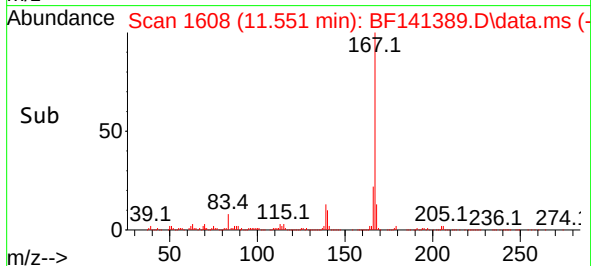
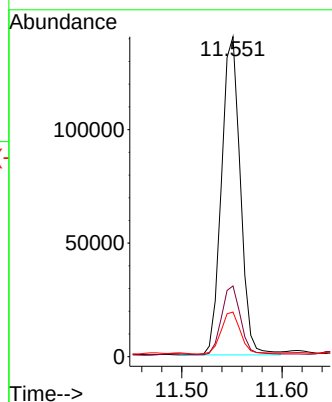
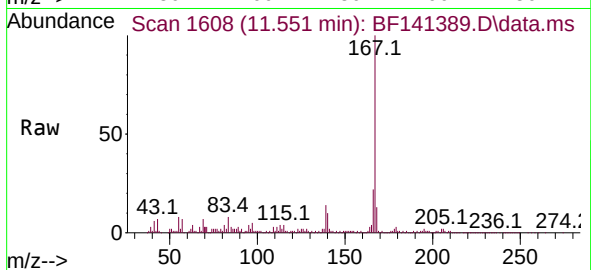
Tgt Ion:167 Resp: 182629

Ion Ratio Lower Upper

167 100

166 22.1 17.0 25.6

139 14.0 10.6 16.0



#75

Fluoranthene

Concen: 190.022 ng

RT: 12.539 min Scan# 1776

Delta R.T. -0.000 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

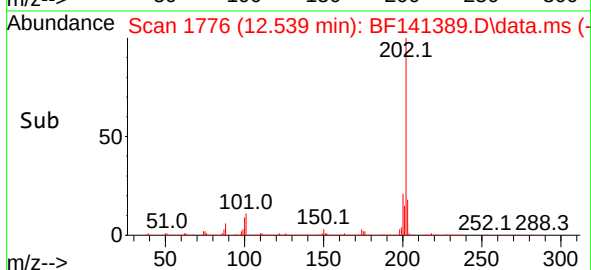
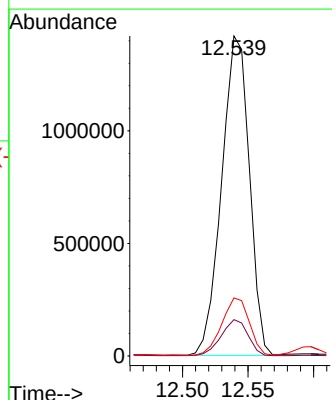
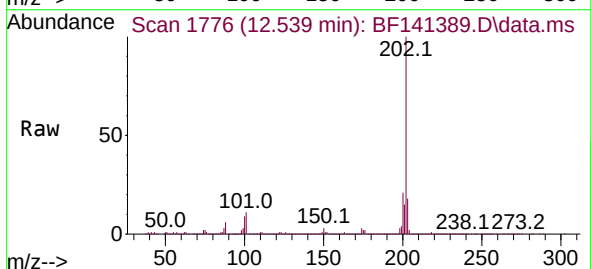
Tgt Ion:202 Resp: 2083202

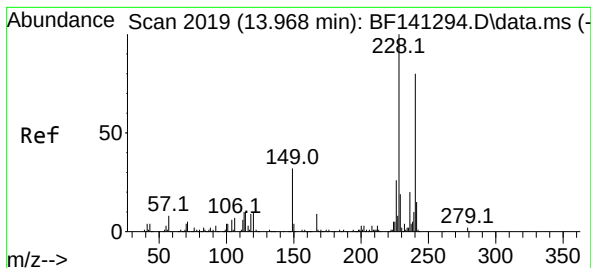
Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.7

203 18.2 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.969 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

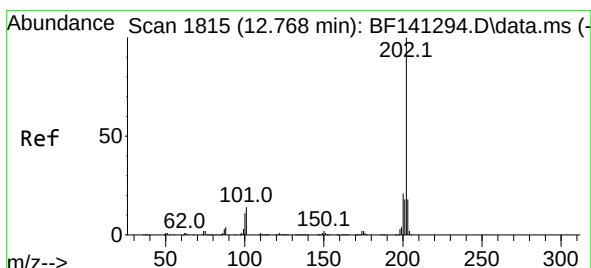
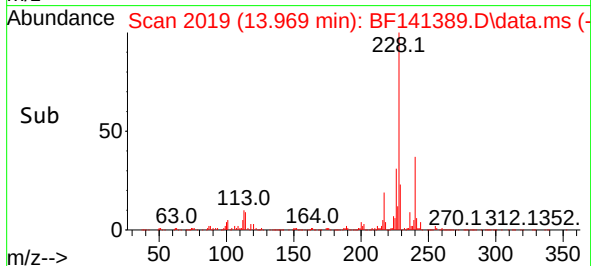
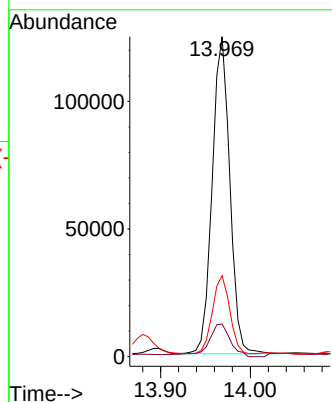
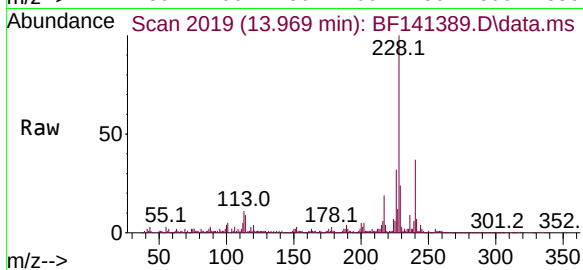
Tgt Ion:240 Resp: 169245

Ion Ratio Lower Upper

240 100

120 10.2 10.0 15.0

236 25.3 19.7 29.5



#78

Pyrene

Concen: 123.003 ng

RT: 12.769 min Scan# 1815

Delta R.T. -0.000 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

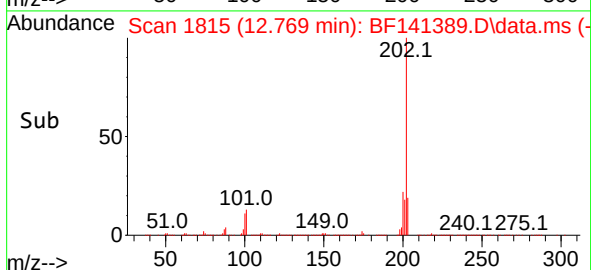
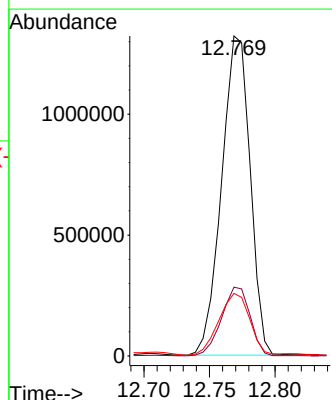
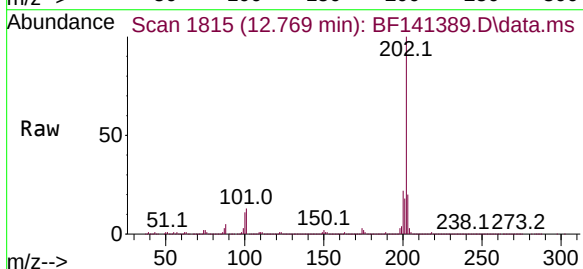
Tgt Ion:202 Resp: 1998296

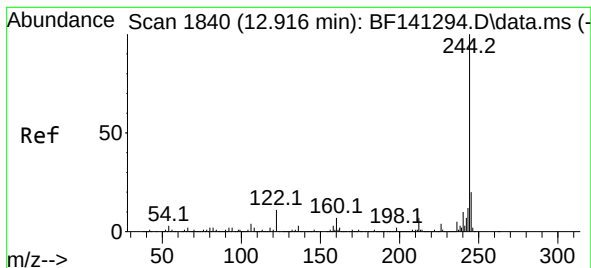
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.4

203 19.6 14.3 21.5





#79

Terphenyl-d14

Concen: 44.325 ng

RT: 12.904 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

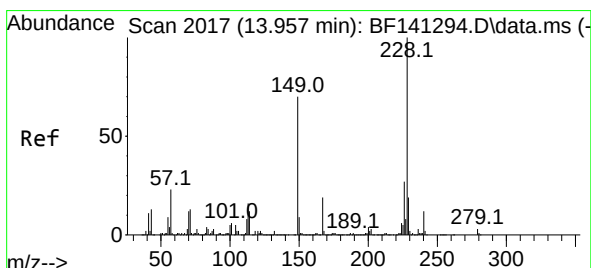
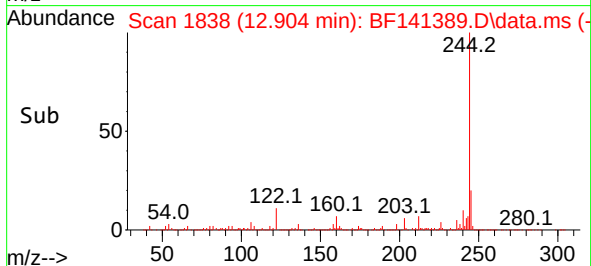
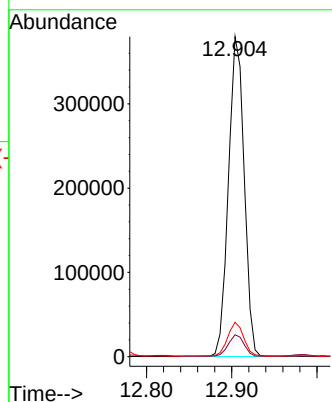
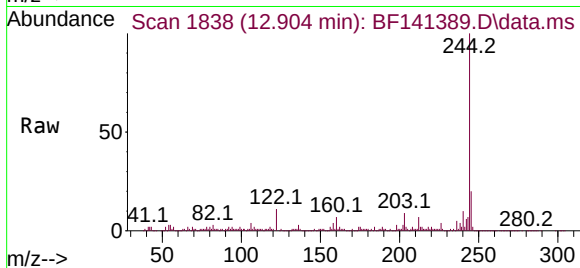
Tgt Ion:244 Resp: 486444

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.8 8.8 13.2



#81

Benzo(a)anthracene

Concen: 77.127 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

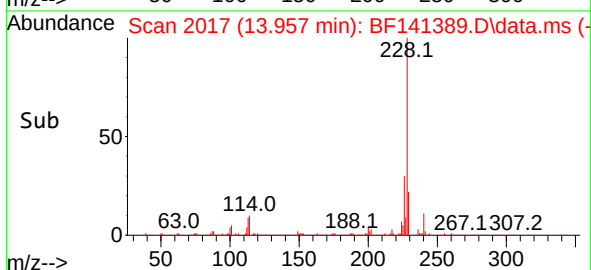
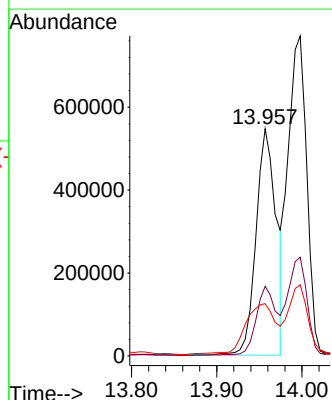
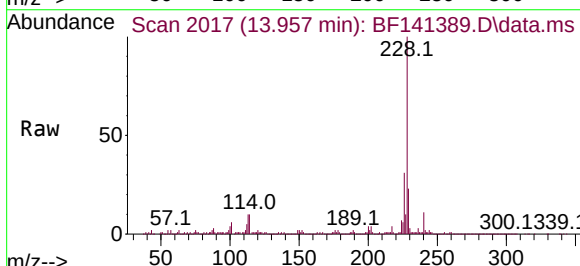
Tgt Ion:228 Resp: 900753

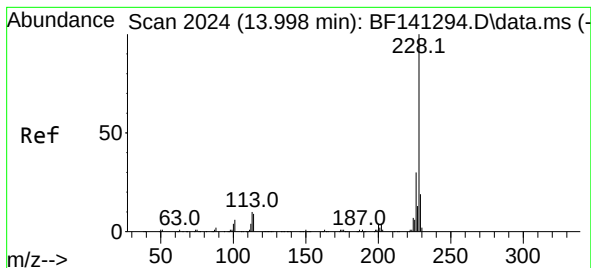
Ion Ratio Lower Upper

228 100

226 30.6 21.4 32.2

229 23.1 15.5 23.3





#83

Chrysene

Concen: 108.971 ng

RT: 13.998 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

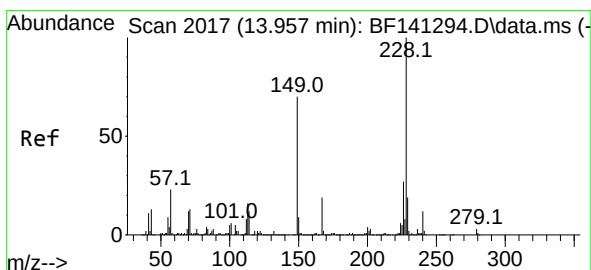
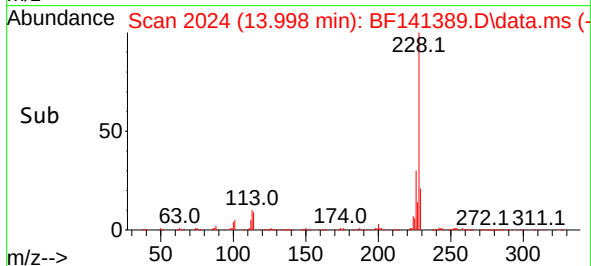
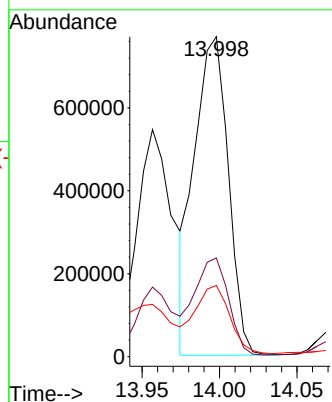
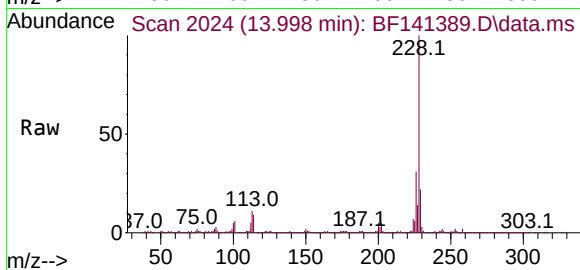
Tgt Ion:228 Resp: 1166356

Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 22.3 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.468 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

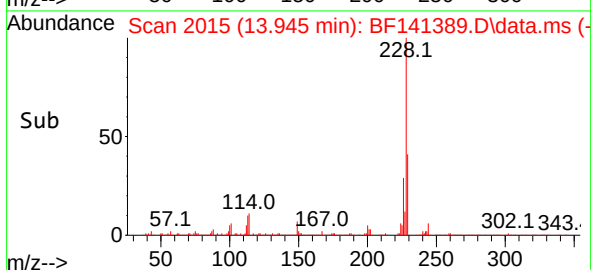
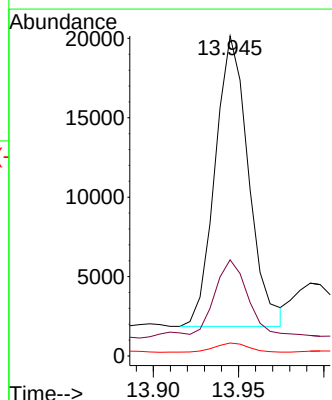
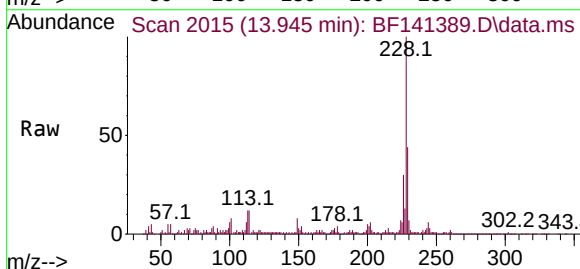
Tgt Ion:149 Resp: 24970

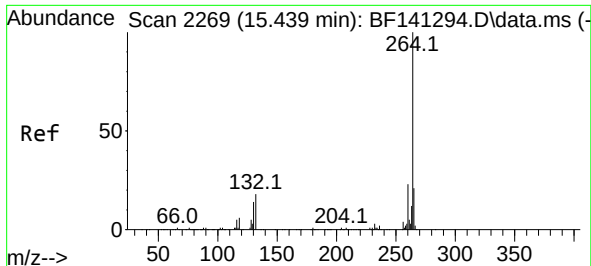
Ion Ratio Lower Upper

149 100

167 30.1 21.8 32.8

279 4.1 3.3 4.9

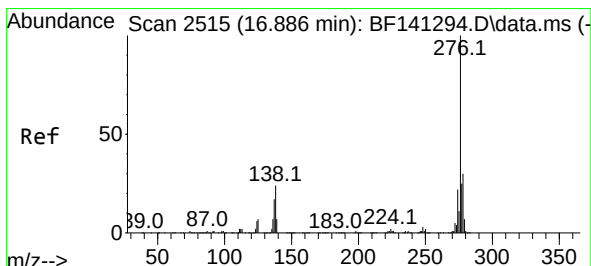
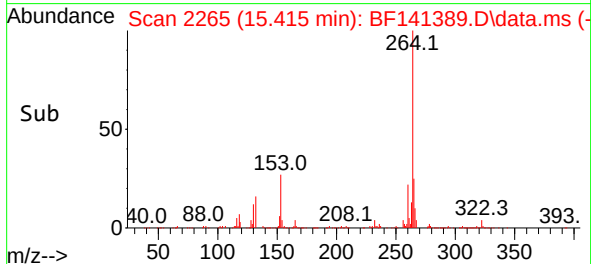
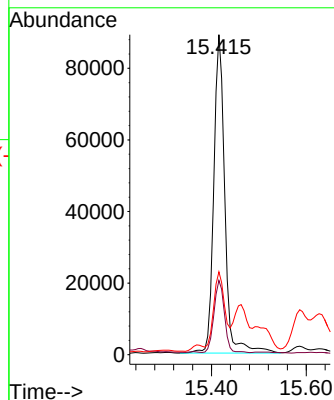
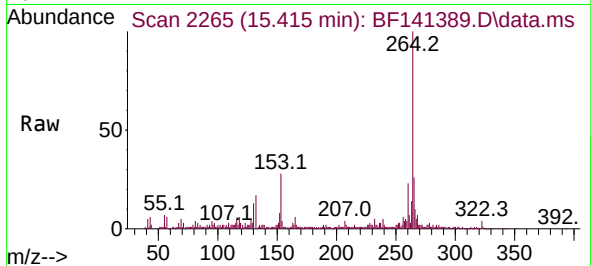




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

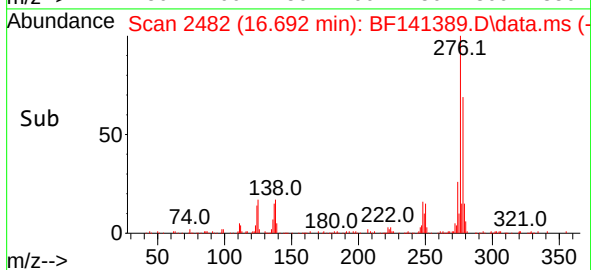
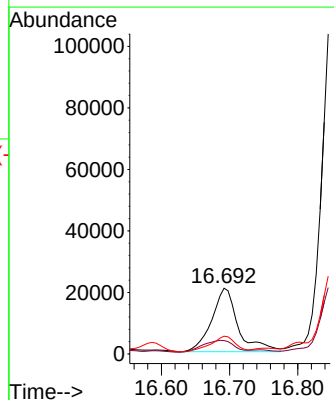
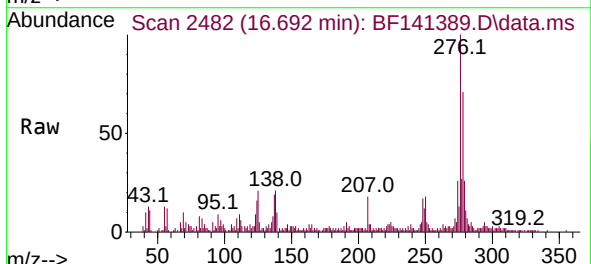
Instrument :
BNA_F
ClientSampleId :
ETGI-371

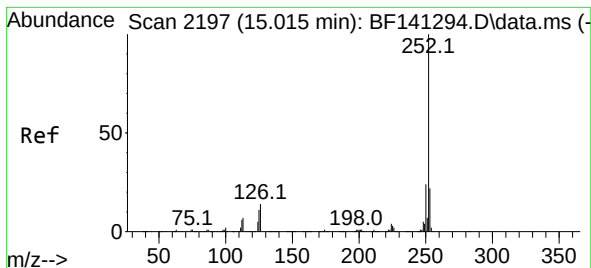
Tgt Ion:264 Resp: 143929
Ion Ratio Lower Upper
264 100
260 23.2 18.6 27.8
265 25.9 16.7 25.1#



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.004 ng
RT: 16.692 min Scan# 2482
Delta R.T. -0.206 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

Tgt Ion:276 Resp: 55777
Ion Ratio Lower Upper
276 100
138 21.8 21.7 32.5
277 22.7 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 173.634 ng

RT: 15.004 min Scan# 2195

Delta R.T. -0.018 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

Instrument :

BNA_F

ClientSampleId :

ETGI-371

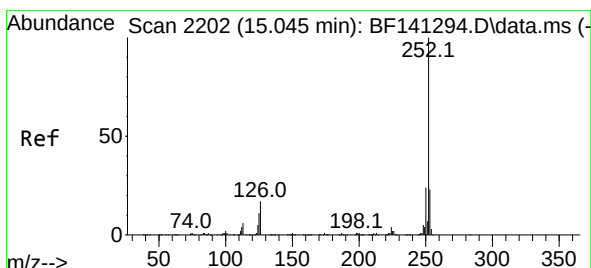
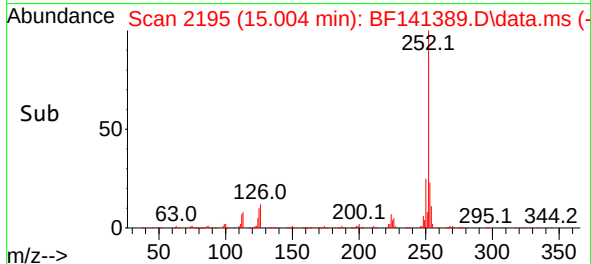
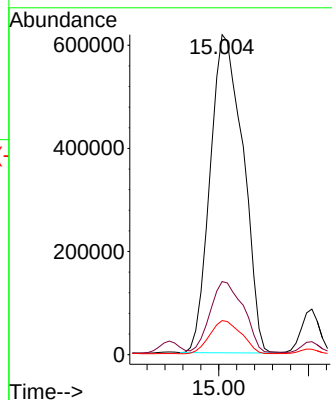
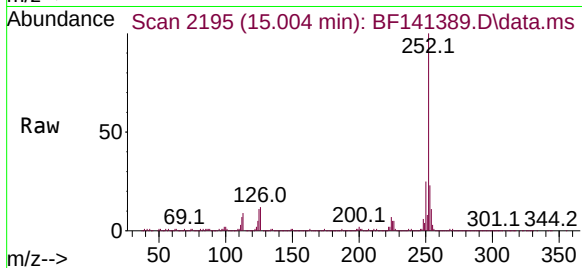
Tgt Ion:252 Resp: 1572002

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 10.6 8.6 12.8



#89

Benzo(k)fluoranthene

Concen: 196.002 ng

RT: 15.004 min Scan# 2195

Delta R.T. -0.047 min

Lab File: BF141389.D

Acq: 04 Feb 2025 00:23

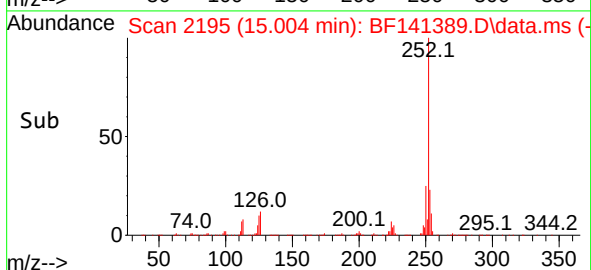
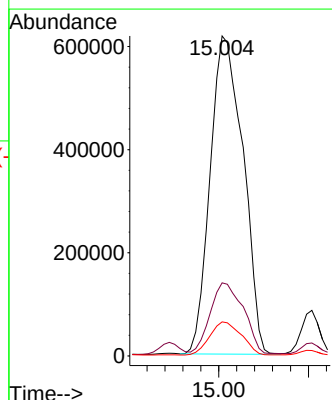
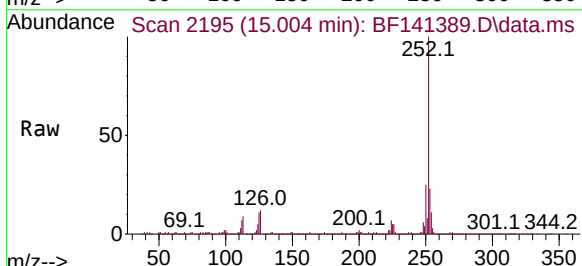
Tgt Ion:252 Resp: 1572002

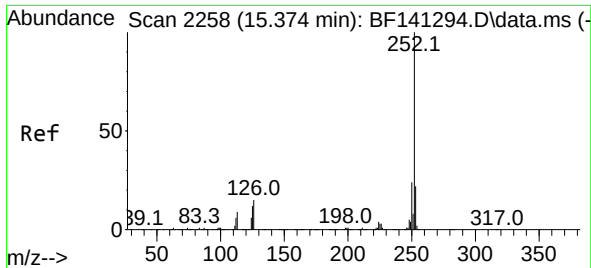
Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 10.6 8.4 12.6

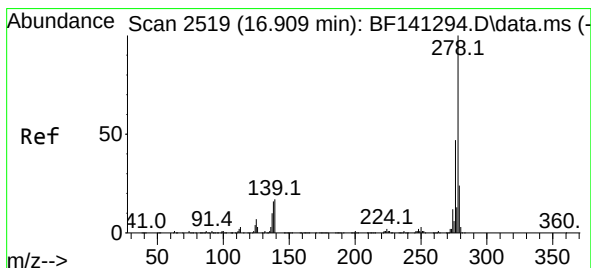
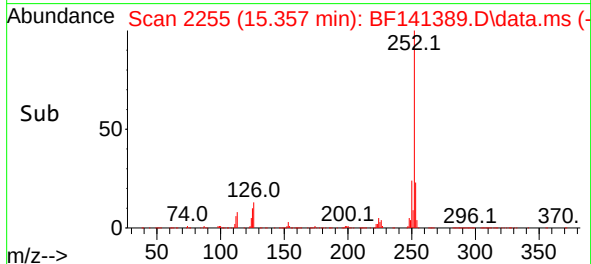
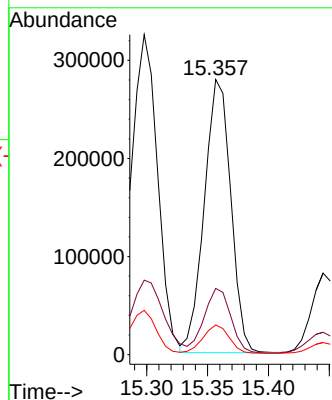
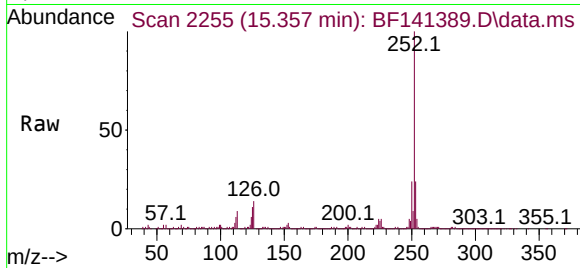




#90
Benzo(a)pyrene
Concen: 55.189 ng
RT: 15.357 min Scan# 211
Delta R.T. -0.024 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

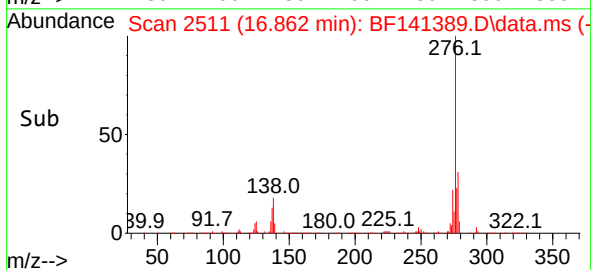
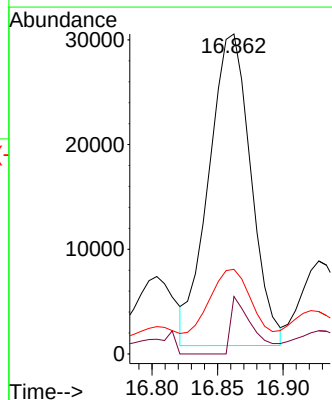
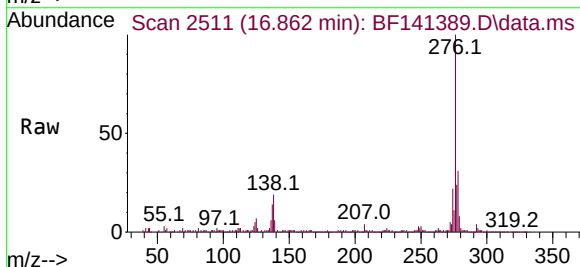
Instrument :
BNA_F
ClientSampleId :
ETGI-371

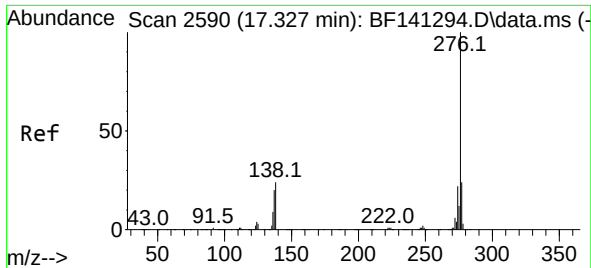
Tgt Ion:252 Resp: 422232
Ion Ratio Lower Upper
252 100
253 24.1 17.2 25.8
125 10.8 9.4 14.2



#91
Dibenzo(a,h)anthracene
Concen: 8.911 ng
RT: 16.862 min Scan# 2511
Delta R.T. -0.059 min
Lab File: BF141389.D
Acq: 04 Feb 2025 00:23

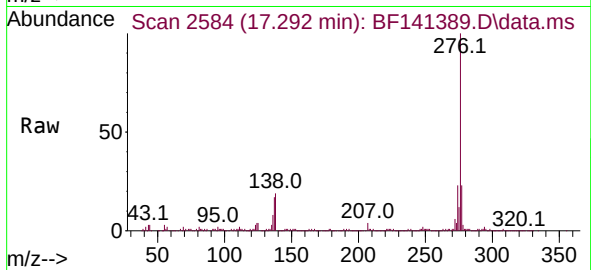
Tgt Ion:278 Resp: 66599
Ion Ratio Lower Upper
278 100
139 18.0 13.9 20.9
279 26.5 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 28.322 ng
 RT: 17.292 min Scan# 21
 Delta R.T. -0.053 min
 Lab File: BF141389.D
 Acq: 04 Feb 2025 00:23

Instrument :
 BNA_F
 ClientSampleId :
 ETGI-371



Tgt Ion:276 Resp: 220098
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.2 28.8
 138 19.1 19.0 28.4

