

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101723\
 Data File : BF135831.D
 Acq On : 18 Oct 2023 01:07
 Operator : CG\JU
 Sample : 04812-01DL 25X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-223DL

Quant Time: Oct 18 02:05:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

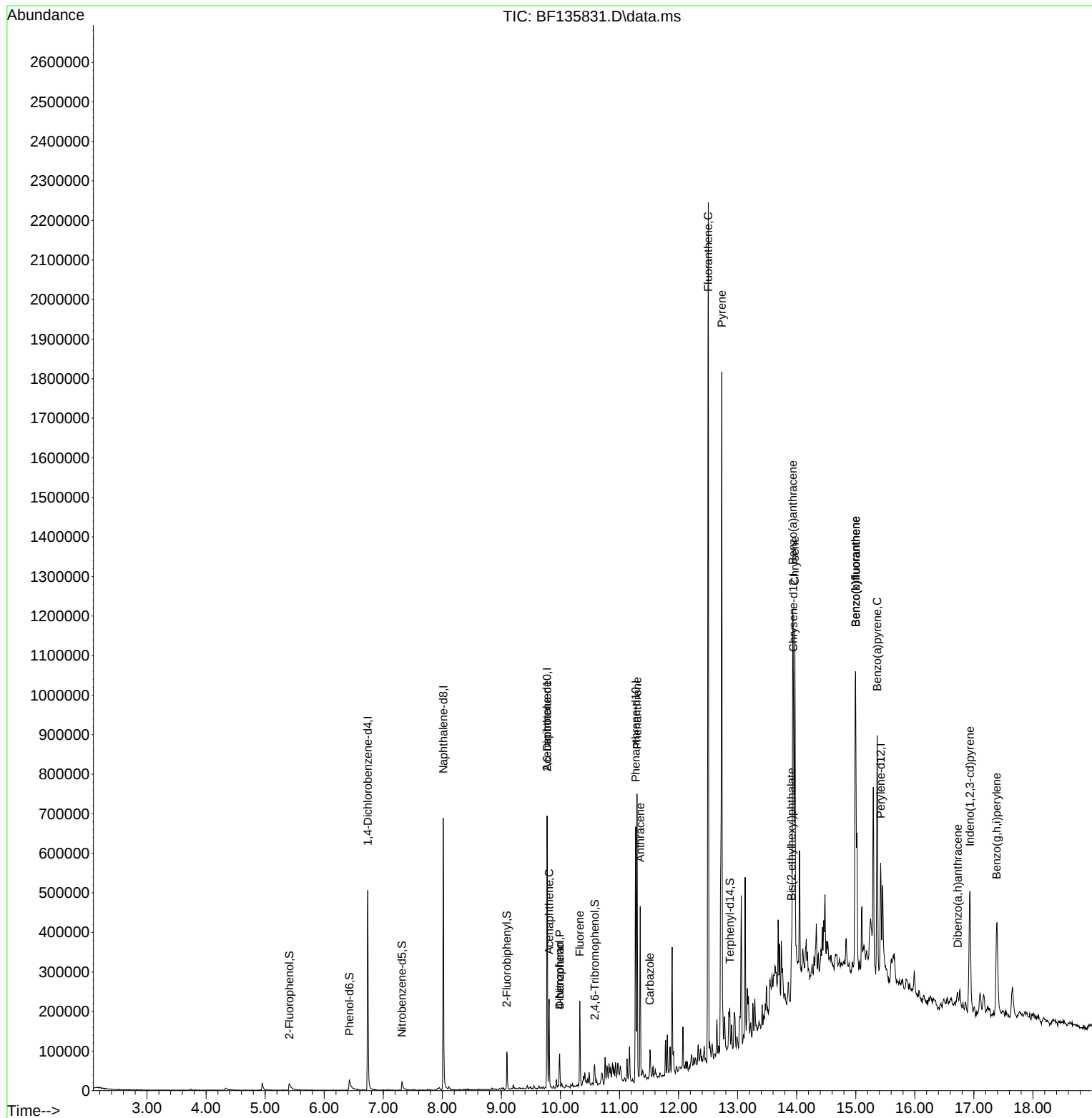
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	82248	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	288762	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	131908	20.000	ng	-0.01
64) Phenanthrene-d10	11.274	188	229161	20.000	ng	# 0.00
76) Chrysene-d12	13.945	240	154544	20.000	ng	0.00
86) Perylene-d12	15.421	264	129915	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	14408	2.816	ng	0.04
7) Phenol-d6	6.428	99	22392	3.508	ng	0.03
23) Nitrobenzene-d5	7.316	82	14474	2.757	ng	0.00
42) 2,4,6-Tribromophenol	10.580	330	4093	3.234	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	31923	3.784	ng	-0.01
79) Terphenyl-d14	12.868	244	32040	3.839	ng	-0.01
Target Compounds						
						Qvalue
51) 2,6-Dinitrotoluene	9.774	165	16876	8.813	ng	# 16
52) Acenaphthene	9.810	154	45638	6.318	ng	98
55) Dibenzofuran	9.986	168	34459	3.162	ng	95
56) 4-Nitrophenol	9.986	139	11870	15.771	ng	# 8
58) Fluorene	10.327	166	57980	6.795	ng	99
71) Phenanthrene	11.298	178	250060	22.779	ng	98
72) Anthracene	11.351	178	157302	13.828	ng	99
73) Carbazole	11.516	167	27843	2.624	ng	97
75) Fluoranthene	12.504	202	920379	75.540	ng	96
78) Pyrene	12.733	202	740324	60.283	ng	99
81) Benzo(a)anthracene	13.933	228	390667	38.485	ng	99
83) Chrysene	13.968	228	331994	33.766	ng	99
84) Bis(2-ethylhexyl)phtha...	13.910	149	17367	2.374	ng	99
87) Indeno(1,2,3-cd)pyrene	16.933	276	212721	30.051	ng	93
88) Benzo(b)fluoranthene	14.998	252	598058	82.254	ng	100
89) Benzo(k)fluoranthene	14.998	252	598058	84.723	ng	99
90) Benzo(a)pyrene	15.362	252	307162	44.926	ng	98
91) Dibenzo(a,h)anthracene	16.727	278	27536	4.745	ng	94
92) Benzo(g,h,i)perylene	17.386	276	215185	36.100	ng	98

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

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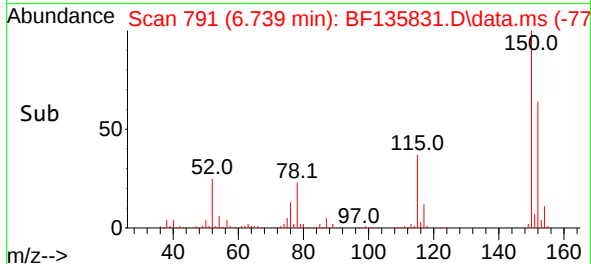
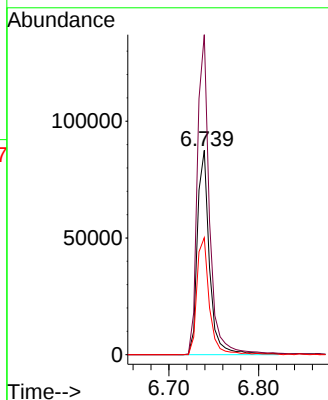
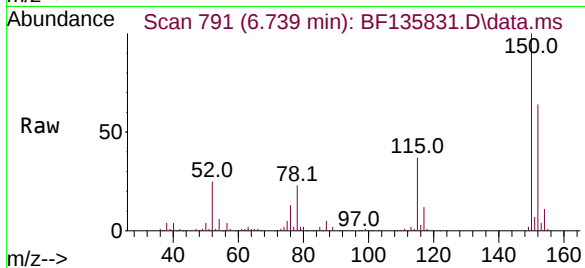




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 791
Delta R.T. -0.007 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

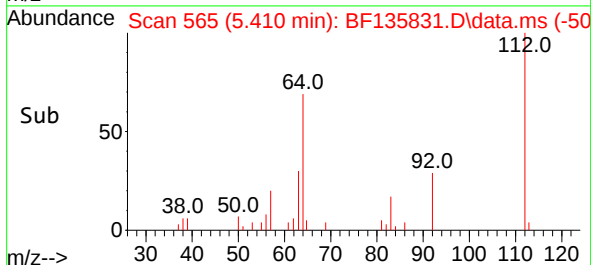
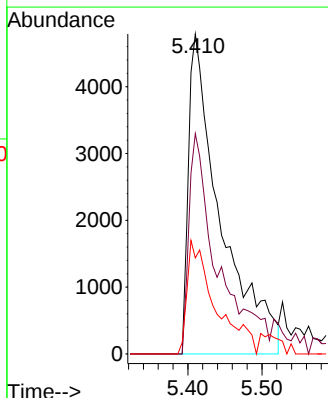
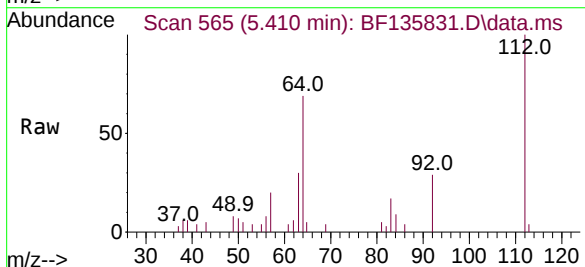
Instrument :
BNA_F
ClientSampleId :
VNJ-223DL

Tgt Ion:152 Resp: 82248
Ion Ratio Lower Upper
152 100
150 156.7 124.5 186.7
115 57.3 49.0 73.4



#5
2-Fluorophenol
Concen: 2.816 ng
RT: 5.410 min Scan# 565
Delta R.T. 0.035 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

Tgt Ion:112 Resp: 14408
Ion Ratio Lower Upper
112 100
64 68.9 51.2 76.8
63 30.0 26.1 39.1

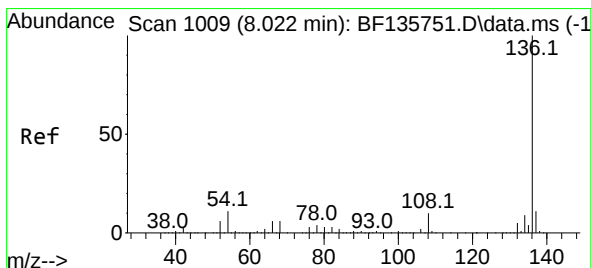
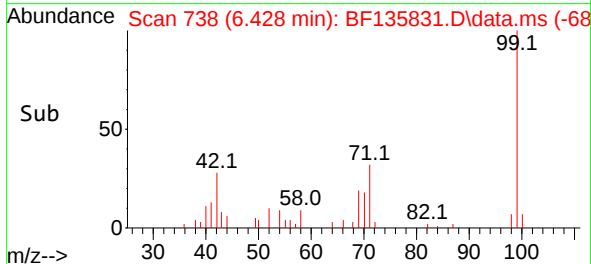
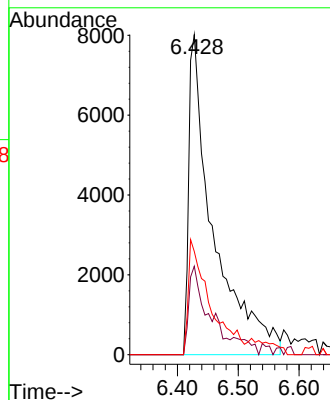
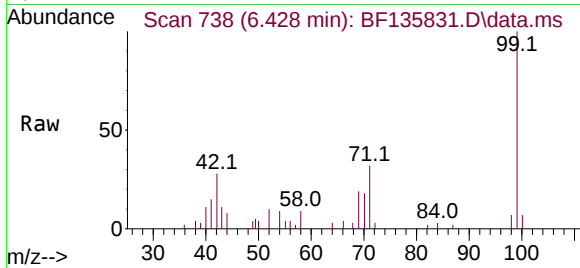




#7
Phenol-d6
Concen: 3.508 ng
RT: 6.428 min Scan# 71
Delta R.T. 0.029 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

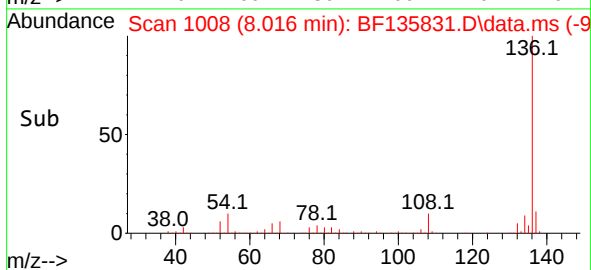
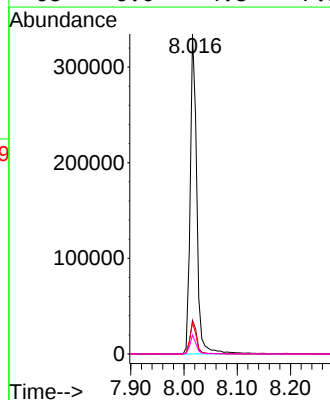
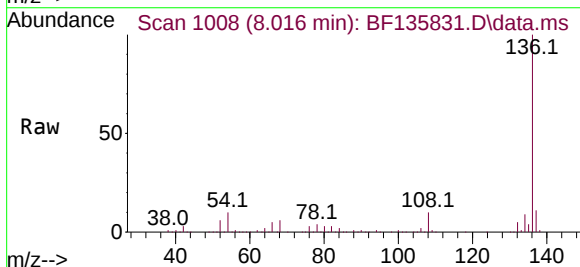
Instrument :
BNA_F
ClientSampleId :
VNJ-223DL

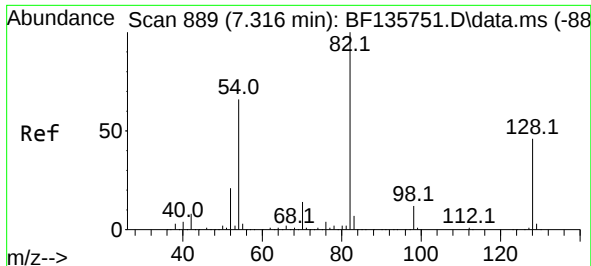
Tgt Ion: 99 Resp: 22392
Ion Ratio Lower Upper
99 100
42 27.7 18.4 27.6#
71 32.3 27.2 40.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

Tgt Ion: 136 Resp: 288762
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 9.7 8.5 12.7
68 6.0 4.8 7.2

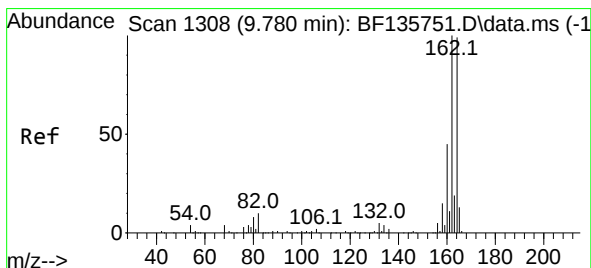
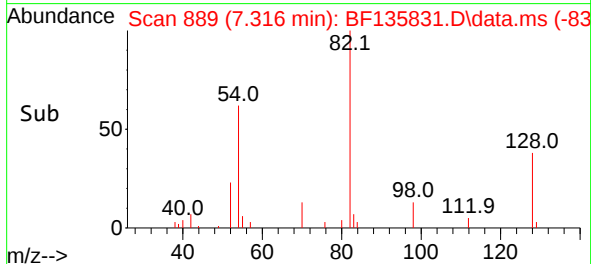
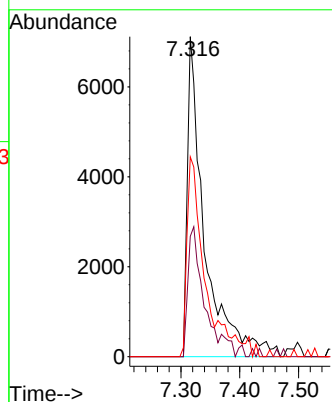
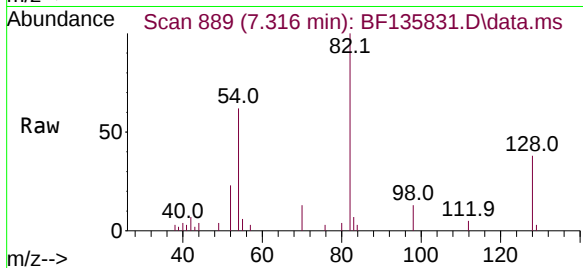




#23
Nitrobenzene-d5
Concen: 2.757 ng
RT: 7.316 min Scan# 889
Delta R.T. -0.000 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

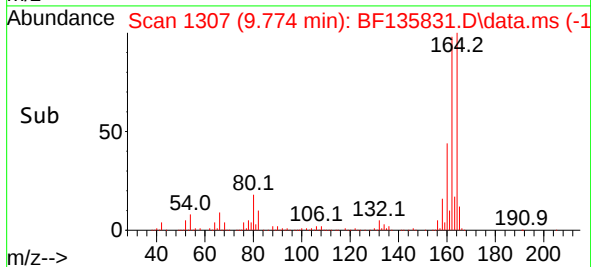
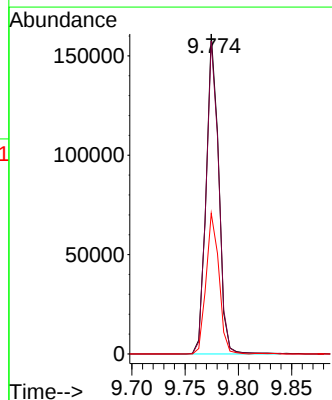
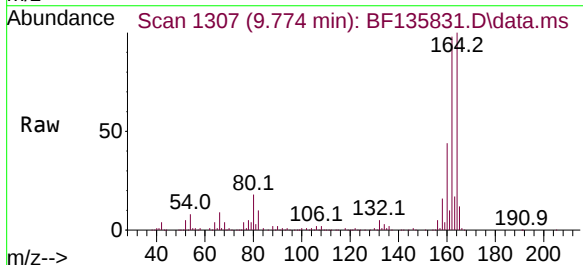
Instrument :
BNA_F
ClientSampleId :
VNJ-223DL

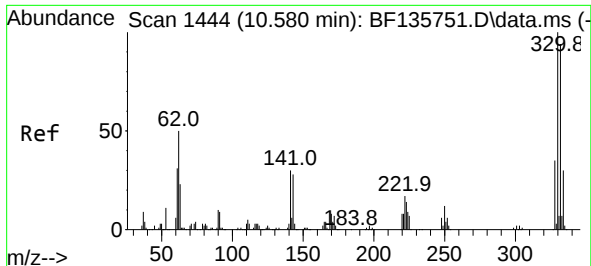
Tgt Ion:	82	Resp:	14474
Ion	Ratio	Lower	Upper
82	100		
128	37.6	37.0	55.6
54	62.5	52.8	79.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

Tgt Ion:	164	Resp:	131908
Ion	Ratio	Lower	Upper
164	100		
162	97.8	80.8	121.2
160	43.9	36.6	54.8





#42

2,4,6-Tribromophenol

Concen: 3.234 ng

RT: 10.580 min Scan# 1444

Delta R.T. -0.006 min

Lab File: BF135831.D

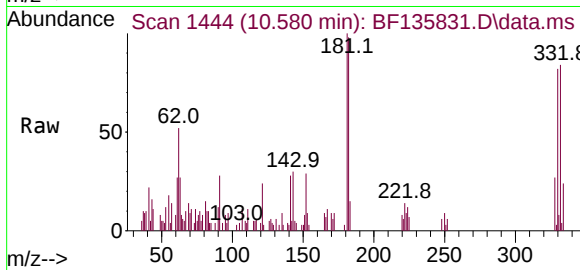
Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL



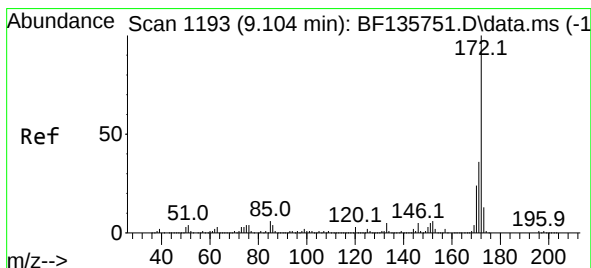
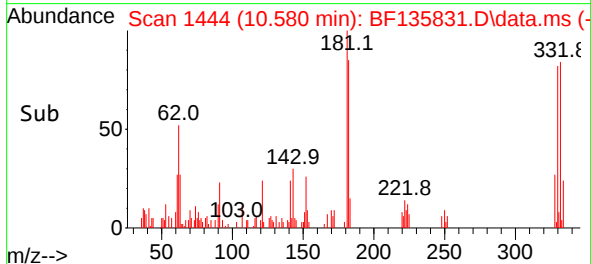
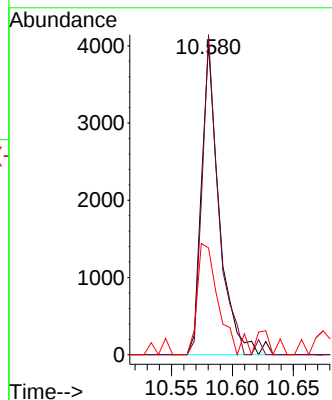
Tgt Ion:330 Resp: 4093

Ion Ratio Lower Upper

330 100

332 93.9 75.0 112.4

141 40.6 25.8 38.6#



#45

2-Fluorobiphenyl

Concen: 3.784 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

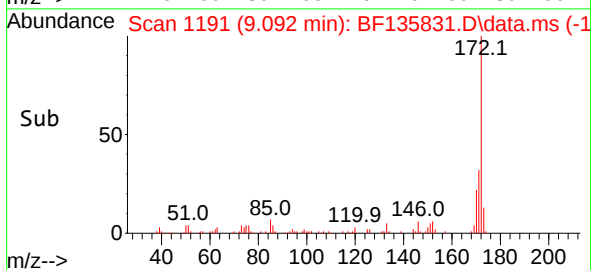
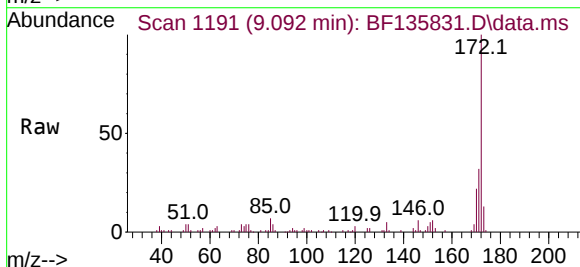
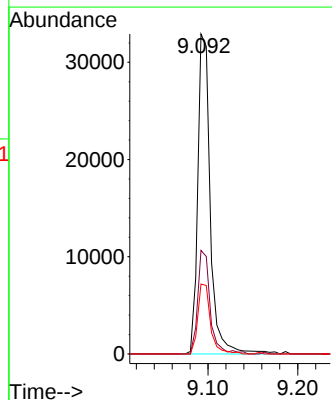
Tgt Ion:172 Resp: 31923

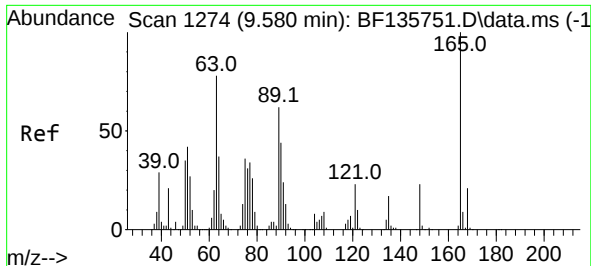
Ion Ratio Lower Upper

172 100

171 32.3 28.4 42.6

170 21.9 18.8 28.2





#51

2,6-Dinitrotoluene

Concen: 8.813 ng

RT: 9.774 min Scan# 11

Delta R.T. 0.188 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

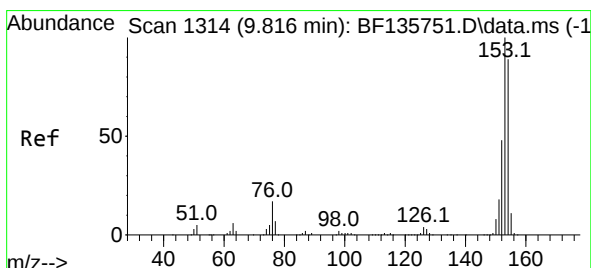
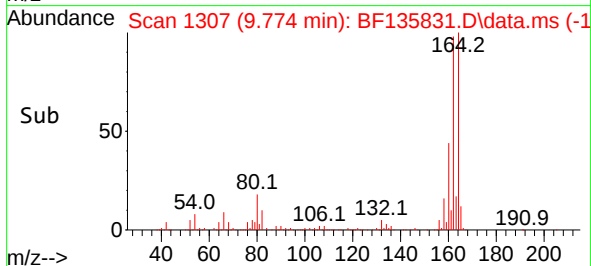
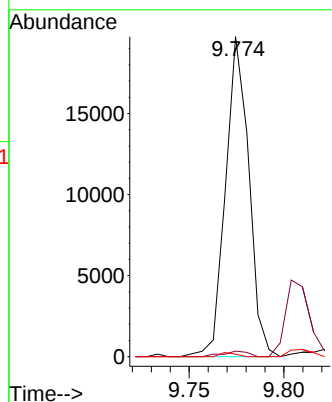
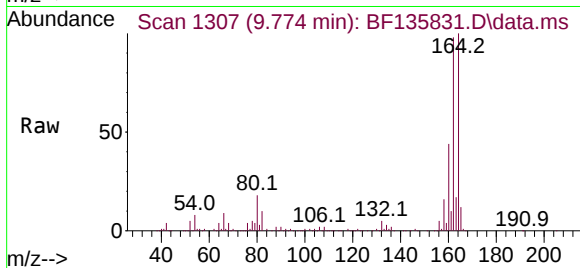
Tgt Ion:165 Resp: 16876

Ion Ratio Lower Upper

165 100

63 1.8 62.2 93.4#

89 0.8 49.6 74.4#



#52

Acenaphthene

Concen: 6.318 ng

RT: 9.810 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

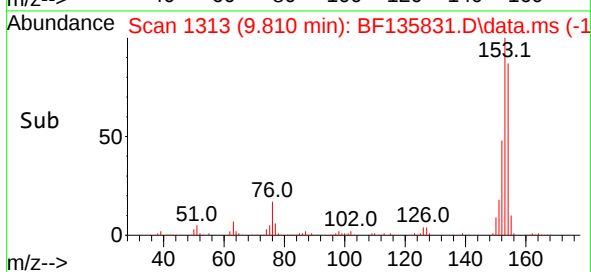
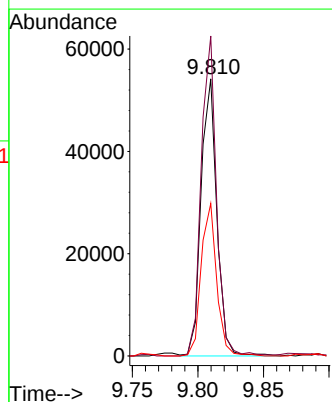
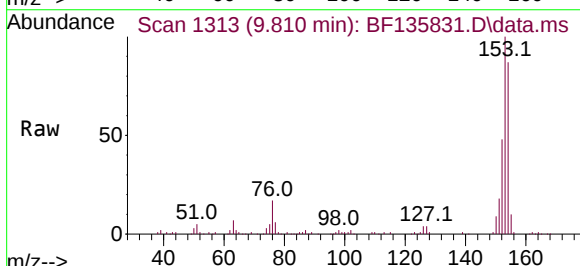
Tgt Ion:154 Resp: 45638

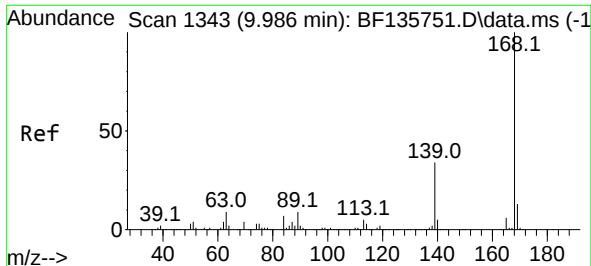
Ion Ratio Lower Upper

154 100

153 115.5 90.1 135.1

152 55.0 43.1 64.7

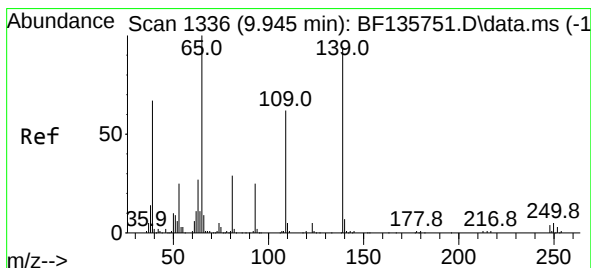
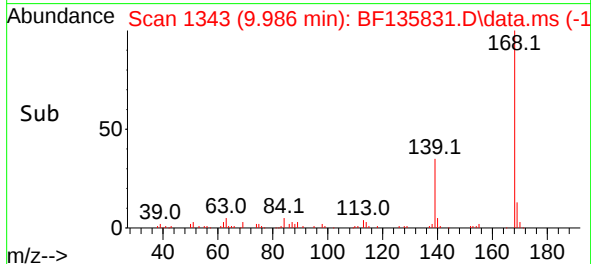
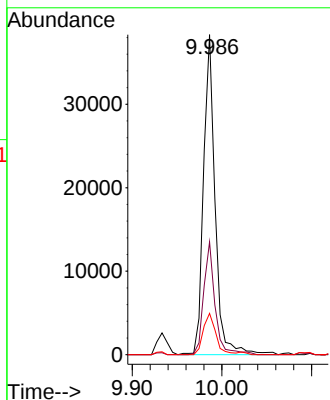
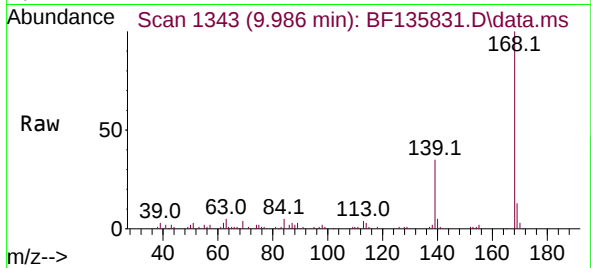




#55
Dibenzenofuran
Concen: 3.162 ng
RT: 9.986 min Scan# 1343
Delta R.T. -0.006 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

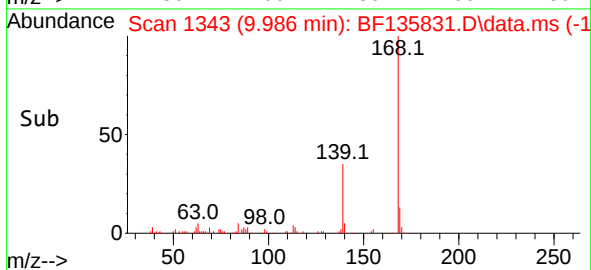
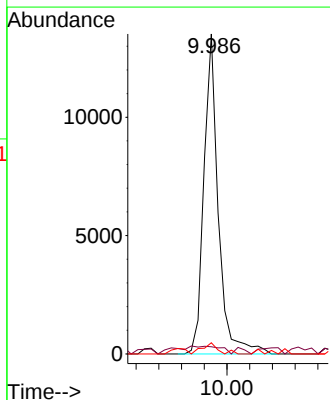
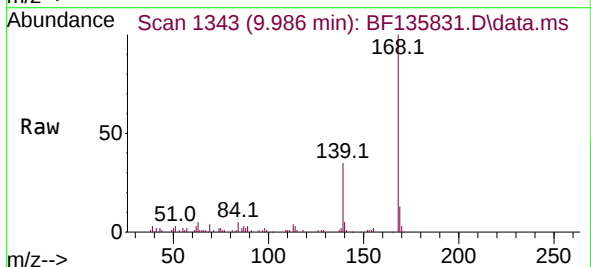
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VNJ-223DL

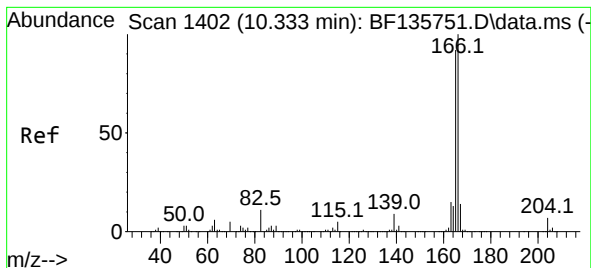
Tgt Ion:168 Resp: 34459
Ion Ratio Lower Upper
168 100
139 35.3 31.0 46.4
169 12.9 10.7 16.1



#56
4-Nitrophenol
Concen: 15.771 ng
RT: 9.986 min Scan# 1343
Delta R.T. 0.041 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

Tgt Ion:139 Resp: 11870
Ion Ratio Lower Upper
139 100
109 2.3 45.6 85.6#
65 3.5 87.5 127.5#





#58

Fluorene

Concen: 6.795 ng

RT: 10.327 min Scan# 1401

Delta R.T. -0.012 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

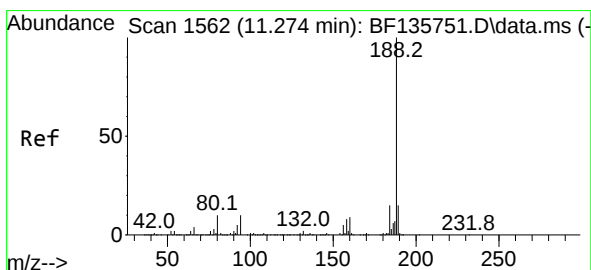
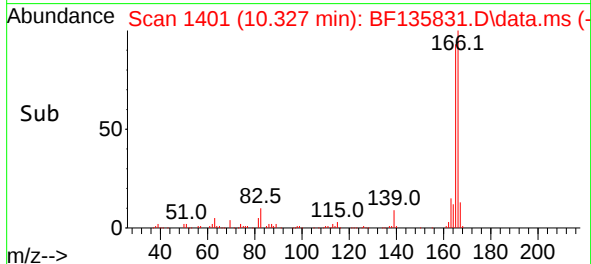
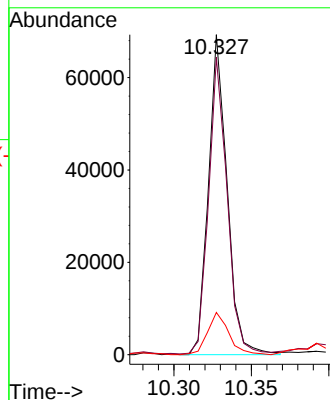
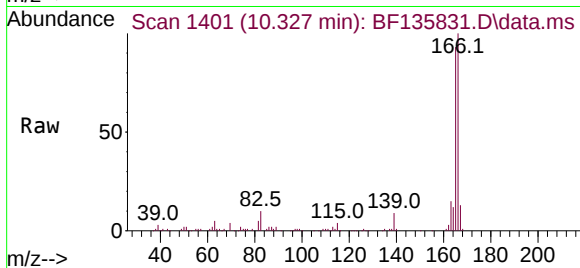
Tgt Ion:166 Resp: 57980

Ion Ratio Lower Upper

166 100

165 92.9 73.4 110.0

167 13.2 11.0 16.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.274 min Scan# 1562

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

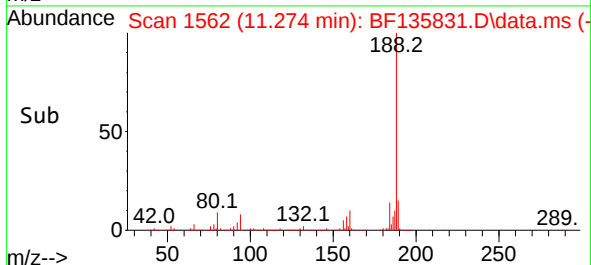
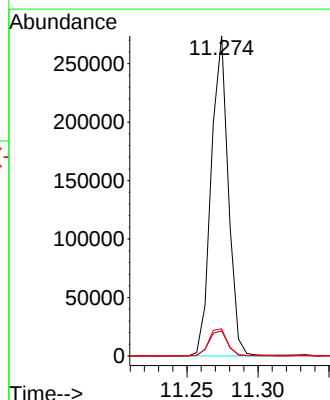
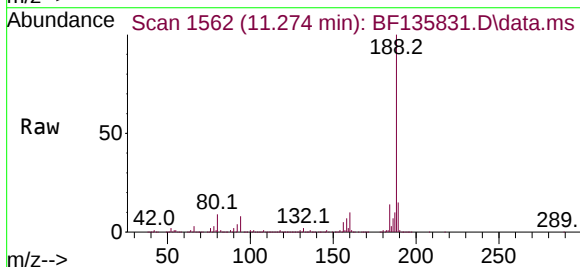
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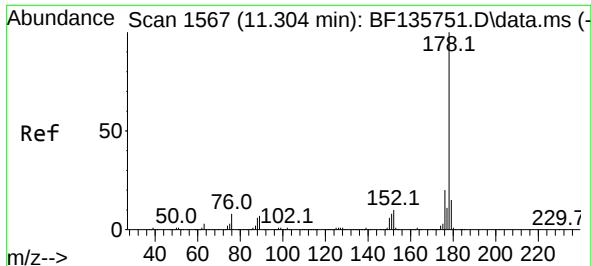
Ion Ratio Lower Upper

188 100

94 7.9 8.0 12.0#

80 8.5 8.3 12.5

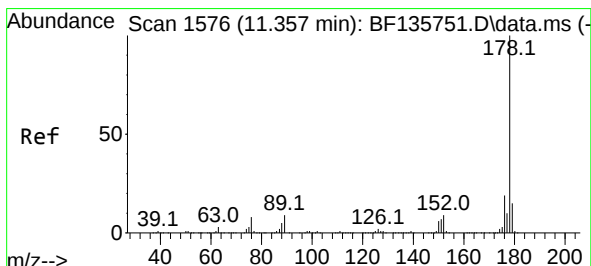
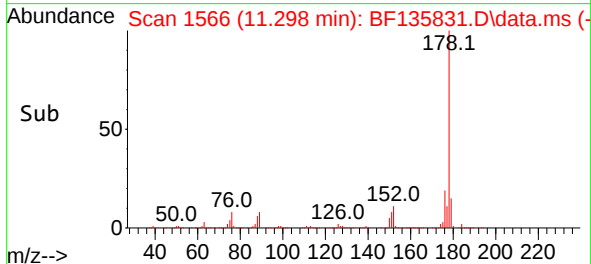
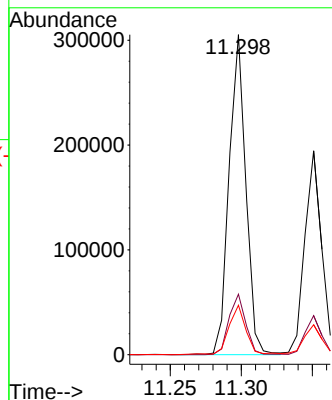
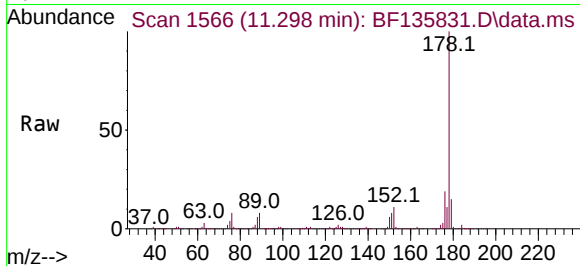




#71
Phenanthrene
Concen: 22.779 ng
RT: 11.298 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

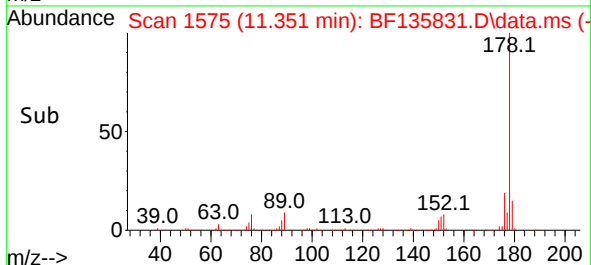
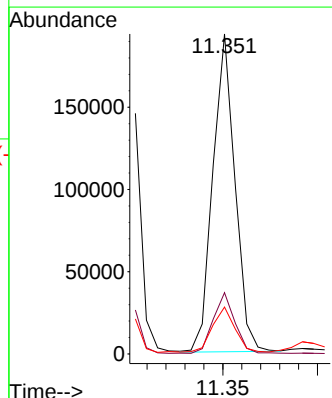
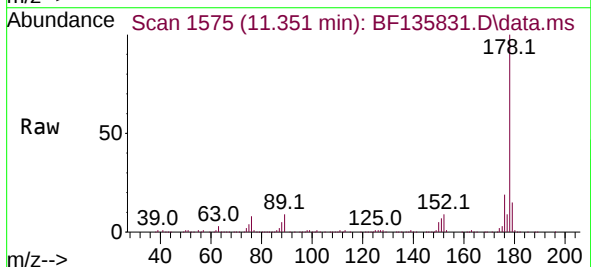
Instrument :
BNA_F
ClientSampleId :
VNJ-223DL

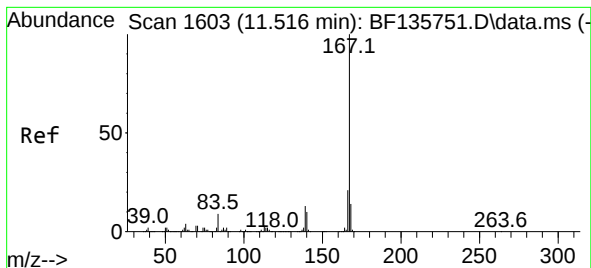
Tgt Ion:178 Resp: 250060
Ion Ratio Lower Upper
178 100
176 18.9 16.0 24.0
179 15.4 12.2 18.4



#72
Anthracene
Concen: 13.828 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF135831.D
Acq: 18 Oct 2023 01:07

Tgt Ion:178 Resp: 157302
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 14.7 12.3 18.5





#73

Carbazole

Concen: 2.624 ng

RT: 11.516 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

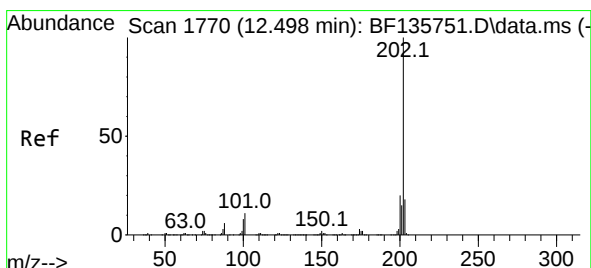
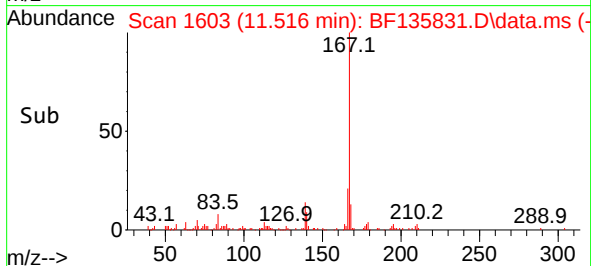
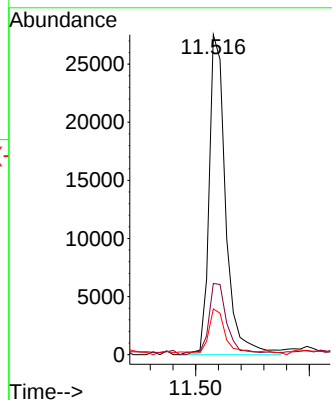
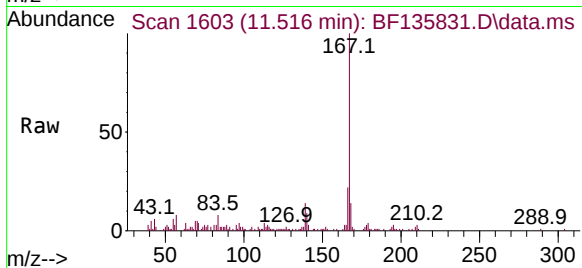
Tgt Ion:167 Resp: 27843

Ion Ratio Lower Upper

167 100

166 22.3 17.1 25.7

139 14.3 10.2 15.4



#75

Fluoranthene

Concen: 75.540 ng

RT: 12.504 min Scan# 1771

Delta R.T. -0.000 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

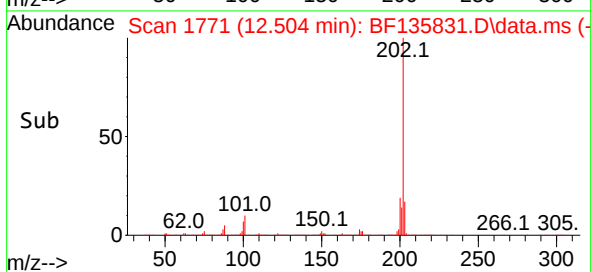
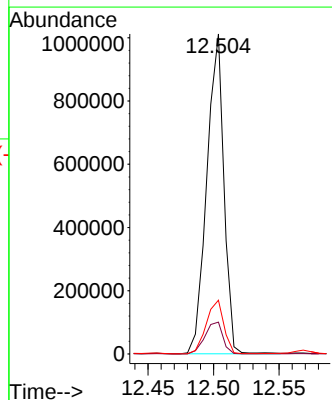
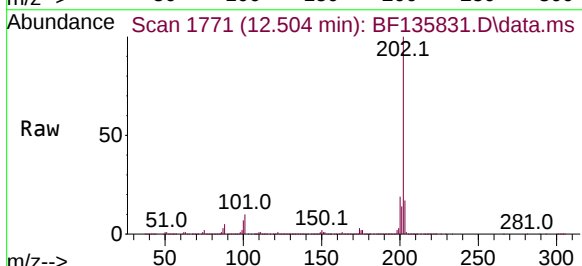
Tgt Ion:202 Resp: 920379

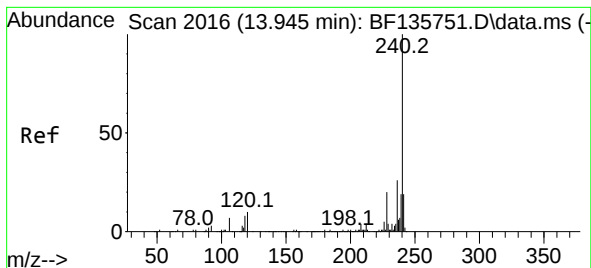
Ion Ratio Lower Upper

202 100

101 9.9 0.0 31.5

203 16.8 0.0 38.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

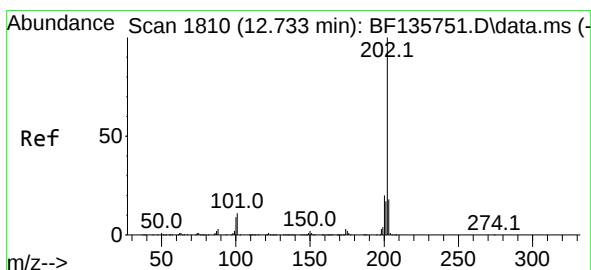
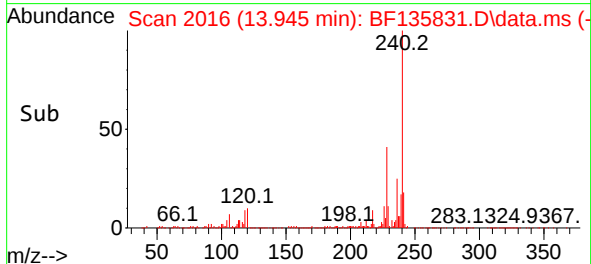
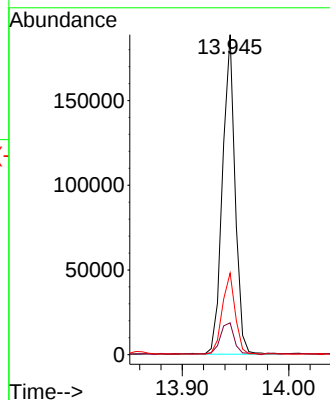
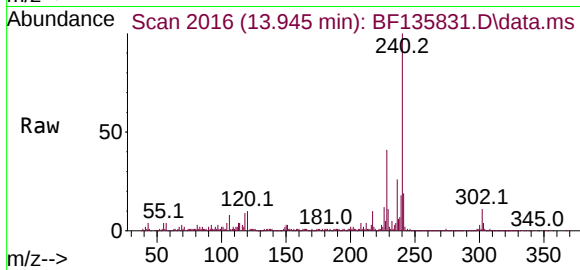
Tgt Ion:240 Resp: 154544

Ion Ratio Lower Upper

240 100

120 10.0 8.2 12.2

236 25.5 21.2 31.8



#78

Pyrene

Concen: 60.283 ng

RT: 12.733 min Scan# 1810

Delta R.T. -0.000 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

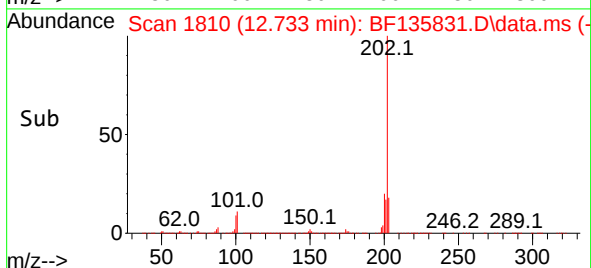
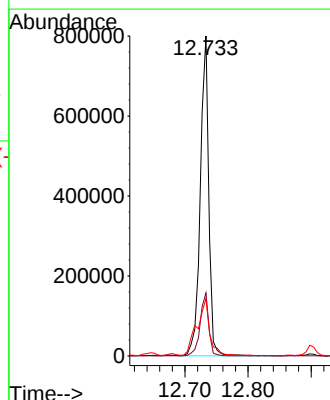
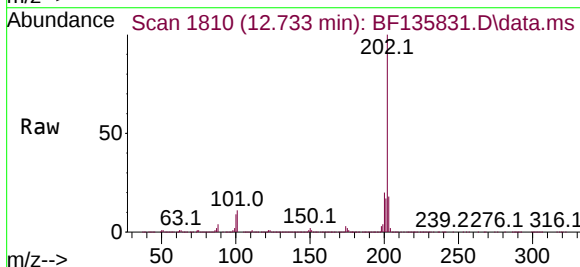
Tgt Ion:202 Resp: 740324

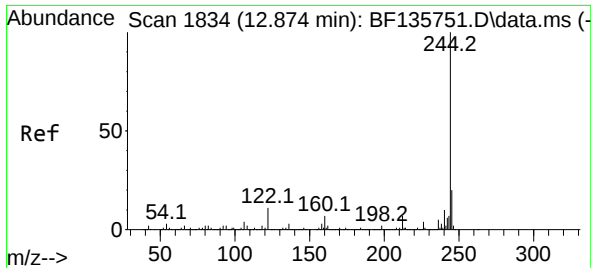
Ion Ratio Lower Upper

202 100

200 19.7 16.1 24.1

203 17.9 14.2 21.2

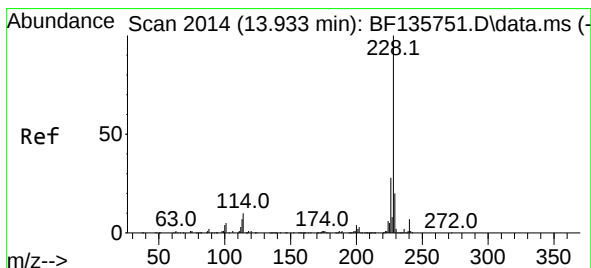
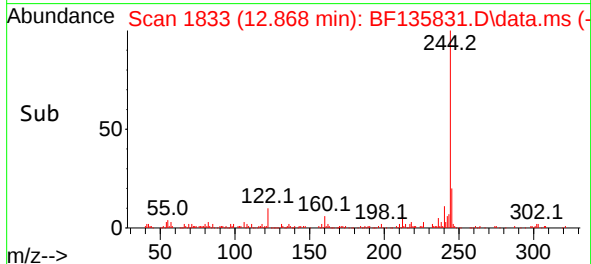
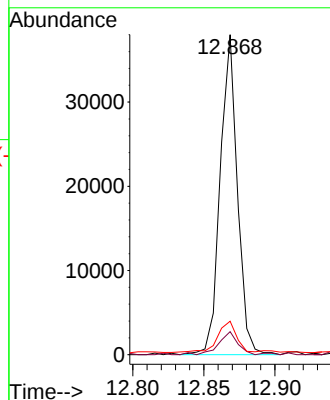
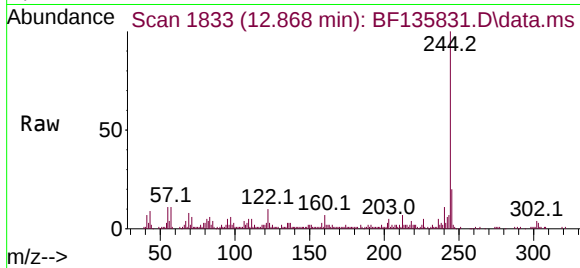




#79
 Terphenyl-d14
 Concen: 3.839 ng
 RT: 12.868 min Scan# 1833
 Delta R.T. -0.012 min
 Lab File: BF135831.D
 Acq: 18 Oct 2023 01:07

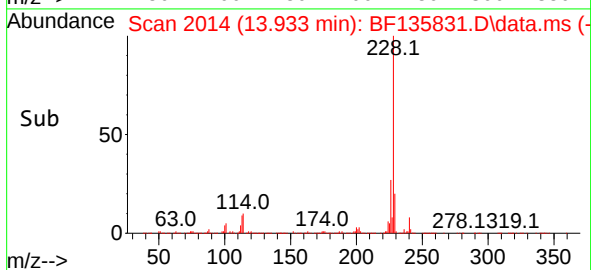
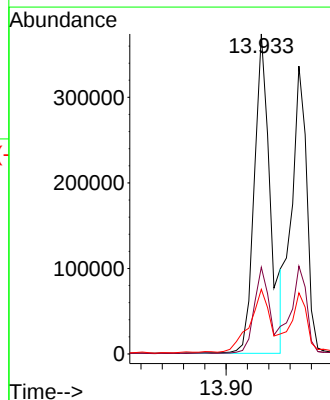
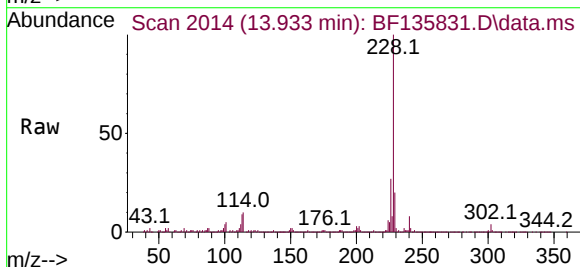
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-223DL

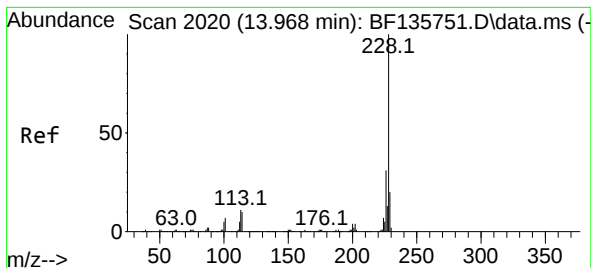
Tgt Ion:244 Resp: 32040
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.6 8.4
 122 10.5 9.0 13.6



#81
 Benzo(a)anthracene
 Concen: 38.485 ng
 RT: 13.933 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF135831.D
 Acq: 18 Oct 2023 01:07

Tgt Ion:228 Resp: 390667
 Ion Ratio Lower Upper
 228 100
 226 27.1 22.2 33.2
 229 20.2 16.1 24.1





#83

Chrysene

Concen: 33.766 ng

RT: 13.968 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

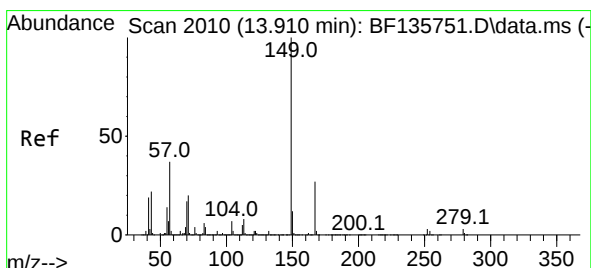
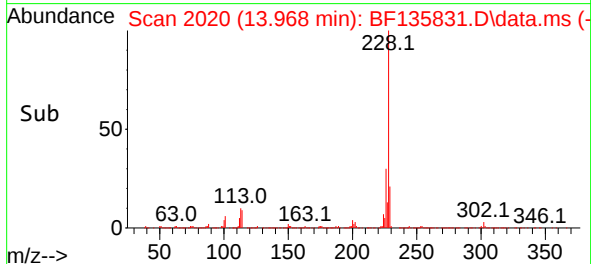
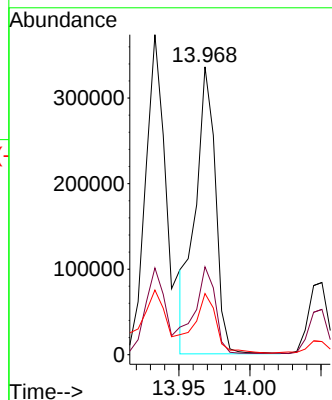
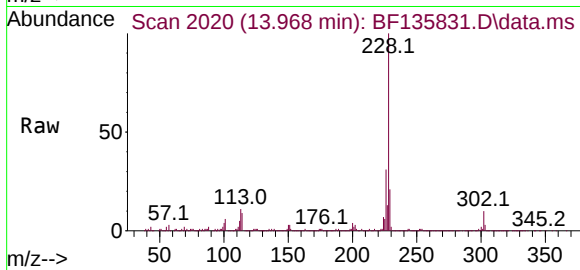
Tgt Ion:228 Resp: 331994

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 21.3 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.374 ng

RT: 13.910 min Scan# 2010

Delta R.T. -0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

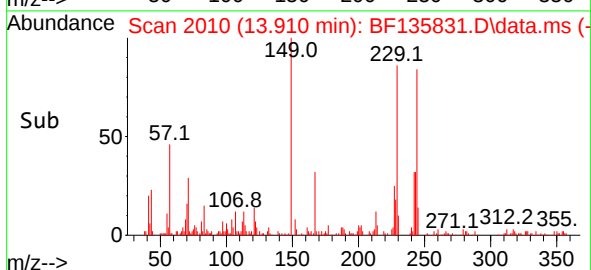
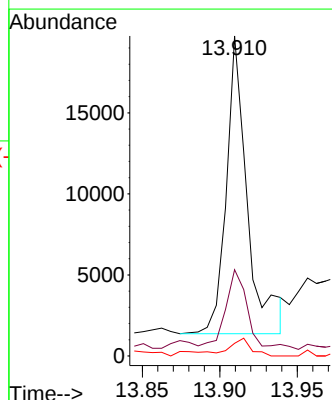
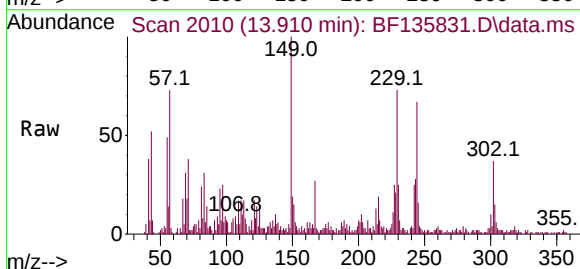
Tgt Ion:149 Resp: 17367

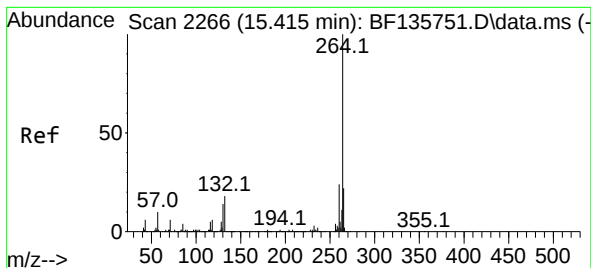
Ion Ratio Lower Upper

149 100

167 26.9 21.3 31.9

279 3.9 2.7 4.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

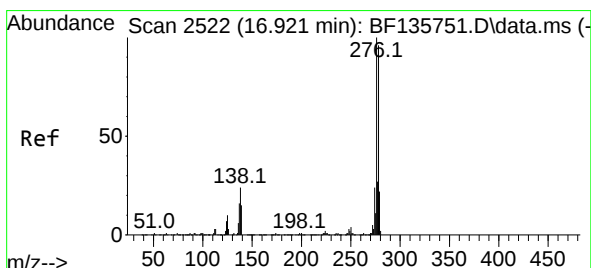
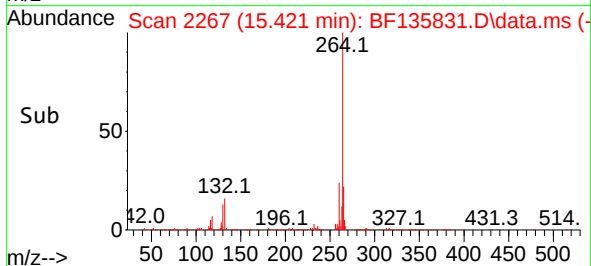
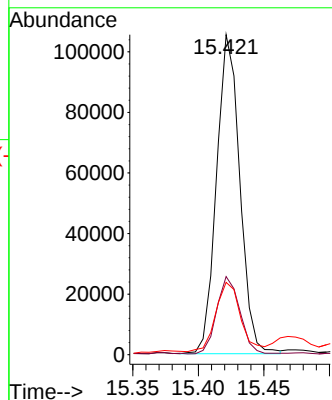
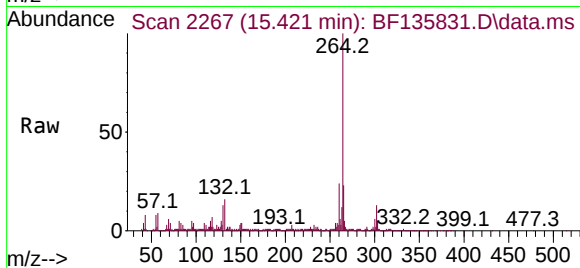
Tgt Ion:264 Resp: 129915

Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

265 22.6 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 30.051 ng

RT: 16.933 min Scan# 2524

Delta R.T. -0.000 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

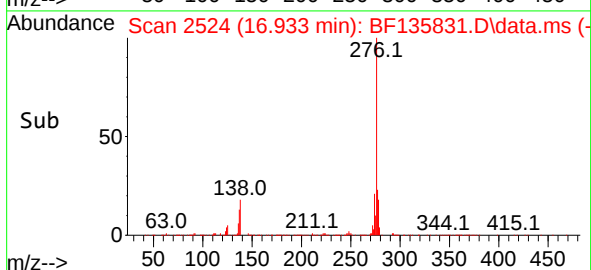
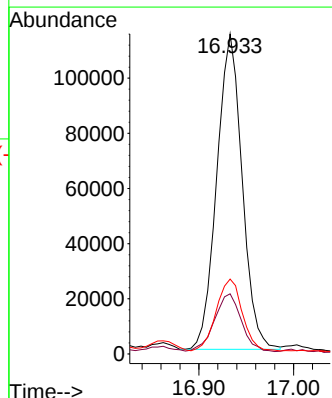
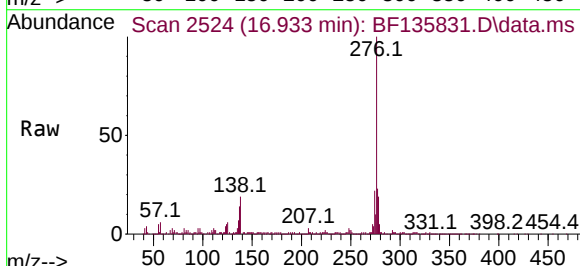
Tgt Ion:276 Resp: 212721

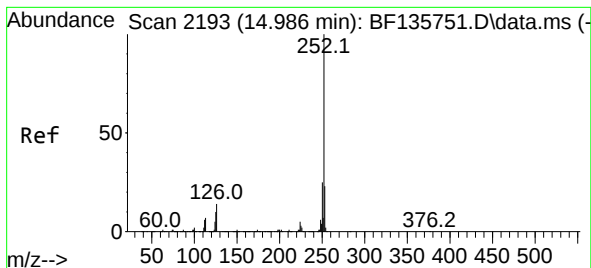
Ion Ratio Lower Upper

276 100

138 20.0 19.8 29.6

277 23.3 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 82.254 ng

RT: 14.998 min Scan# 2195

Delta R.T. 0.006 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

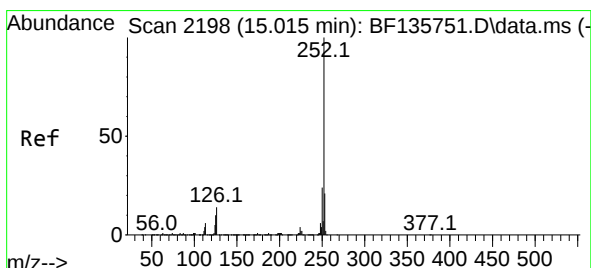
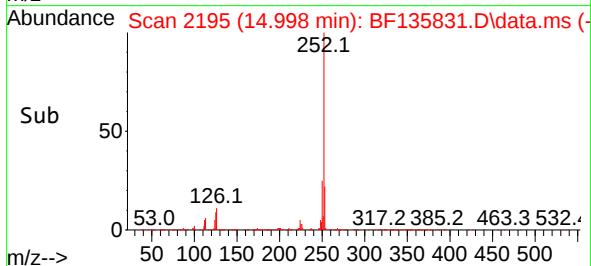
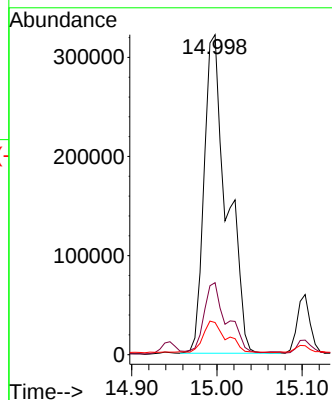
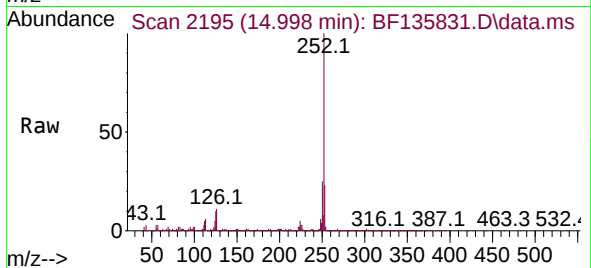
Tgt Ion:252 Resp: 598058

Ion Ratio Lower Upper

252 100

253 22.5 18.2 27.2

125 10.1 8.2 12.2



#89

Benzo(k)fluoranthene

Concen: 84.723 ng

RT: 14.998 min Scan# 2195

Delta R.T. -0.024 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

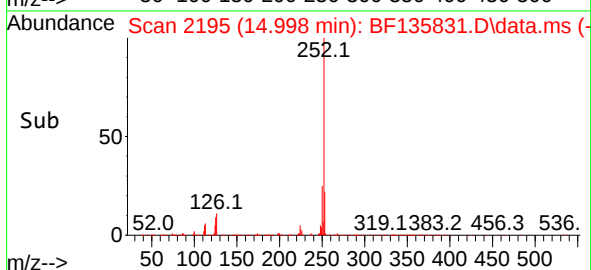
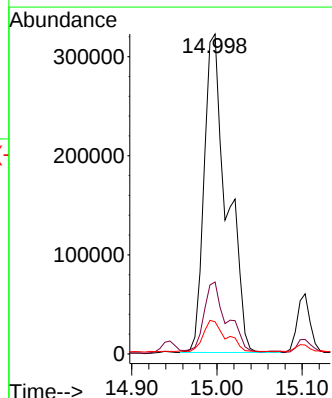
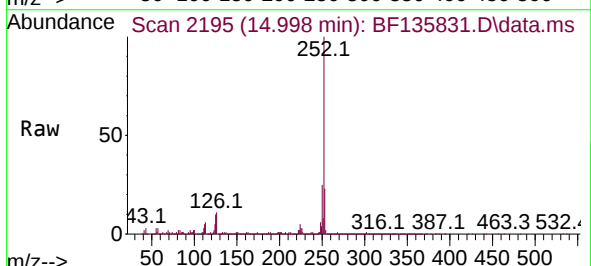
Tgt Ion:252 Resp: 598058

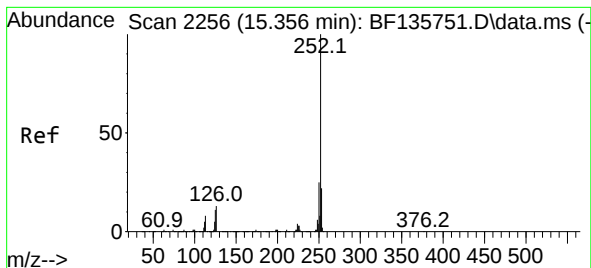
Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

125 10.1 8.3 12.5





#90

Benzo(a)pyrene

Concen: 44.926 ng

RT: 15.362 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL

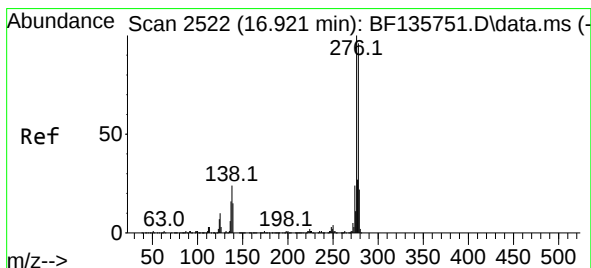
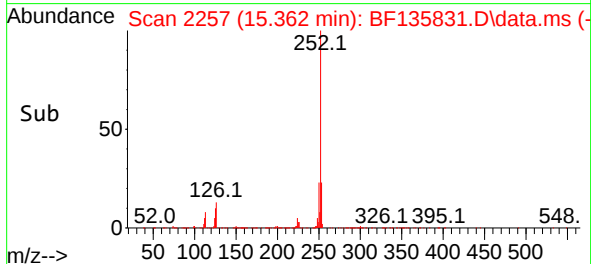
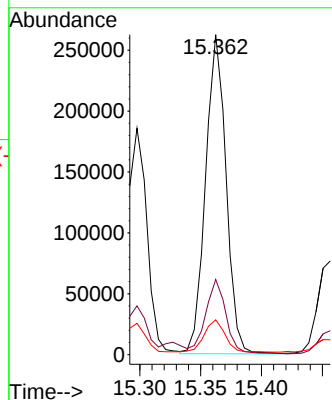
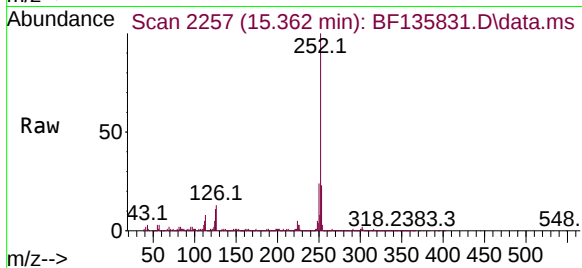
Tgt Ion:252 Resp: 307162

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.2

125 10.9 8.8 13.2



#91

Dibenzo(a,h)anthracene

Concen: 4.745 ng

RT: 16.727 min Scan# 2489

Delta R.T. -0.212 min

Lab File: BF135831.D

Acq: 18 Oct 2023 01:07

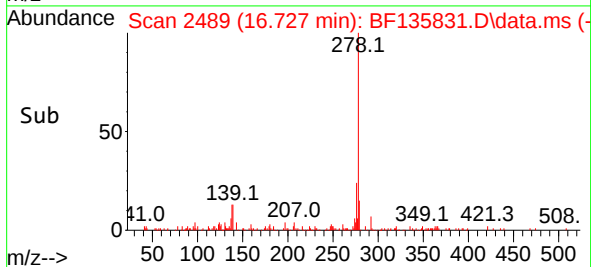
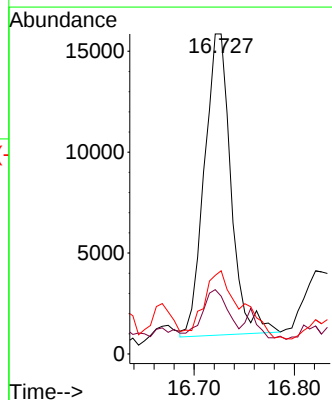
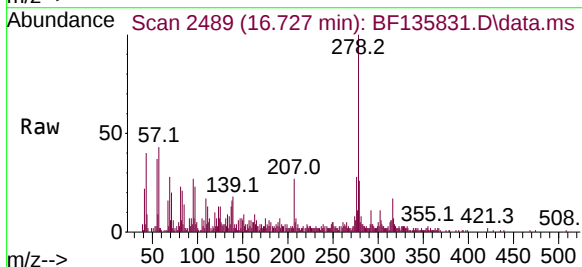
Tgt Ion:278 Resp: 27536

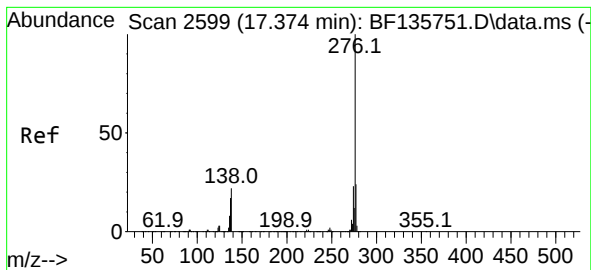
Ion Ratio Lower Upper

278 100

139 18.1 12.5 18.7

279 26.0 18.6 27.8





#92

Benzo(g,h,i)perylene

Concen: 36.100 ng

RT: 17.386 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF135831.D

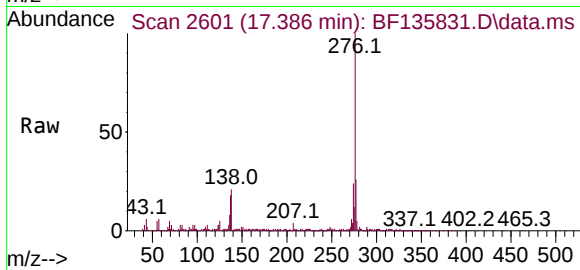
Acq: 18 Oct 2023 01:07

Instrument :

BNA_F

ClientSampleId :

VNJ-223DL



Tgt Ion:276 Resp: 215185

Ion Ratio Lower Upper

276 100

277 25.7 19.4 29.2

138 21.3 17.3 25.9

