

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121223\
 Data File : BF136523.D
 Acq On : 12 Dec 2023 18:56
 Operator : CG\JU
 Sample : 05629-01DL 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

Quant Time: Dec 12 23:19:31 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

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

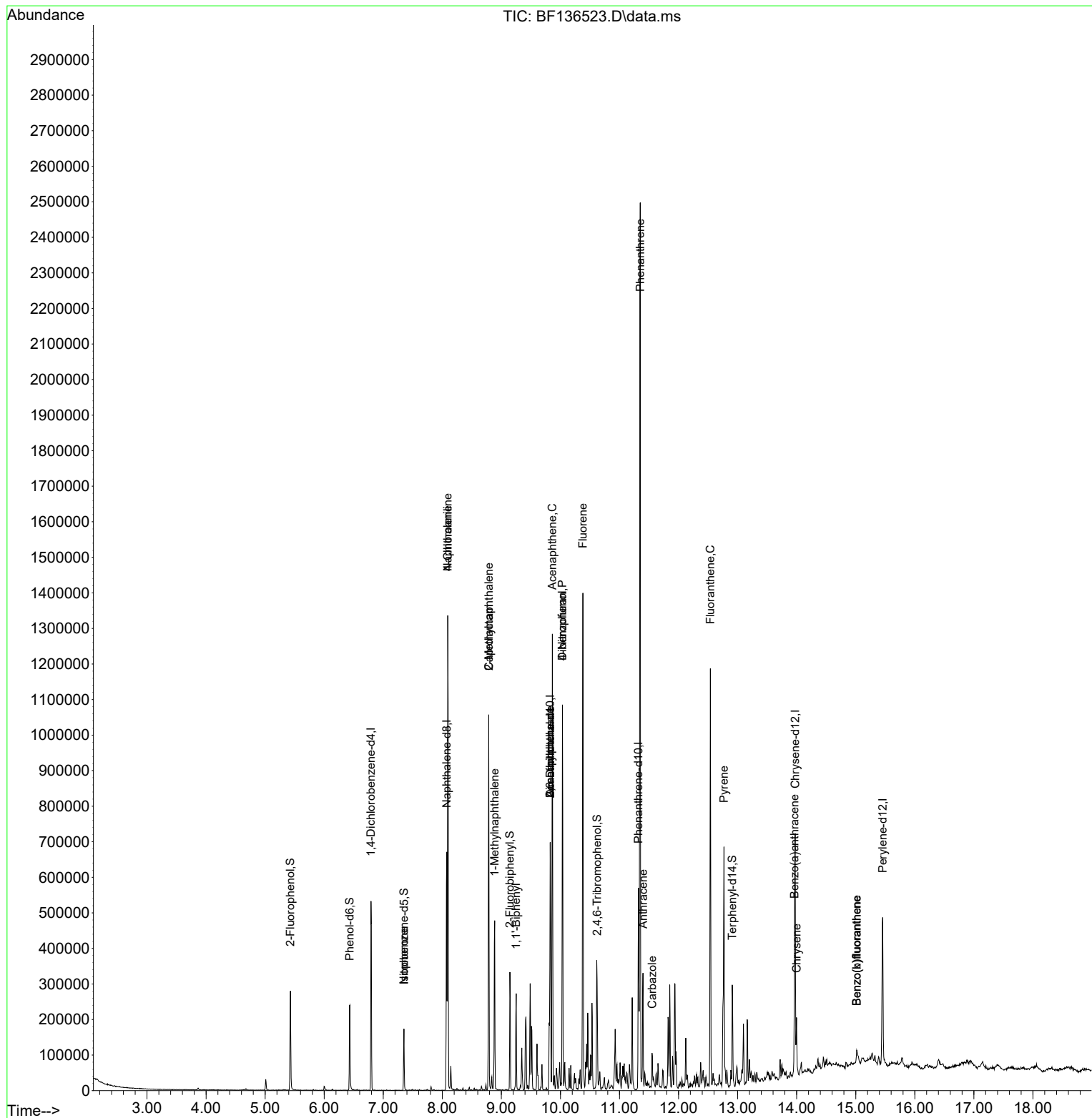
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	80563	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	299111	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	133751	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	216411	20.000	ng	0.00
76) Chrysene-d12	13.974	240	200360	20.000	ng	0.00
86) Perylene-d12	15.457	264	203482	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	74296	13.619	ng	0.00
7) Phenol-d6	6.434	99	88869	13.057	ng	-0.01
23) Nitrobenzene-d5	7.351	82	48788	8.818	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	16547	10.034	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	96987	9.894	ng	-0.02
79) Terphenyl-d14	12.910	244	94716	6.231	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	6.434	77	75	Below Cal	#	1
25) Isophorone	7.351	82	48788	4.908	ng	# 65
31) Naphthalene	8.092	128	575264	34.876	ng	98
33) 4-Chloroaniline	8.092	127	73253	12.457	ng	# 32
35) Caprolactam	8.786	113	5671	4.135	ng	# 1
37) 2-Methylnaphthalene	8.786	142	250997	23.919	ng	93
38) 1-Methylnaphthalene	8.886	142	123019	11.947	ng	97
46) 1,1'-Biphenyl	9.251	154	82072	7.211	ng	99
50) Dimethylphthalate	9.828	163	25385	2.578	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	28629	12.923	ng	# 29
52) Acenaphthene	9.863	154	239789	29.655	ng	97
55) Dibenzofuran	10.033	168	379619	32.137	ng	99
56) 4-Nitrophenol	10.033	139	141786	83.606	ng	# 9
58) Fluorene	10.380	166	345742	36.462	ng	99
71) Phenanthrene	11.351	178	966528	81.256	ng	99
72) Anthracene	11.398	178	121885	10.173	ng	99
73) Carbazole	11.551	167	37212	3.509	ng	99
75) Fluoranthene	12.539	202	423423	33.968	ng	98
77) Benzidine	12.692	184	61	Below Cal	#	66
78) Pyrene	12.768	202	268791	13.698	ng	97
81) Benzo(a)anthracene	13.963	228	85681	6.139	ng	96
83) Chrysene	13.998	228	58417	4.254	ng	97
88) Benzo(b)fluoranthene	15.015	252	33868	2.434	ng	# 96
89) Benzo(k)fluoranthene	15.015	252	32499	2.479	ng	# 96

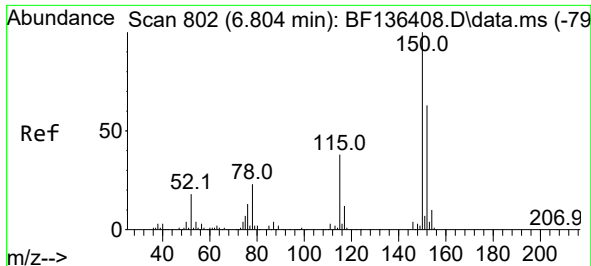
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 23:19:31 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 06 09:40:27 2023
Response via : Initial Calibration

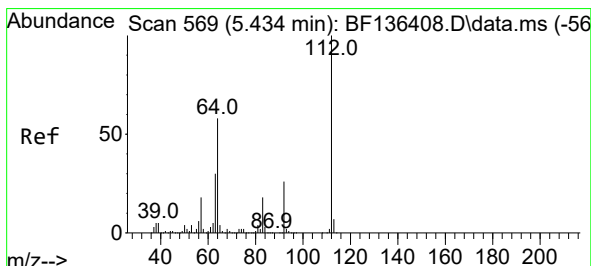
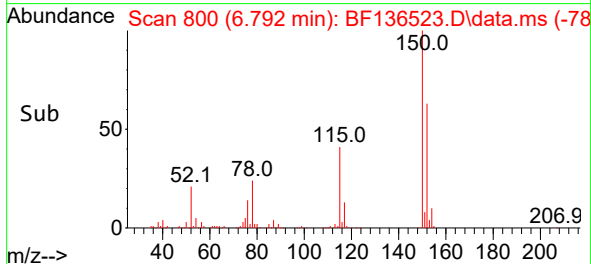
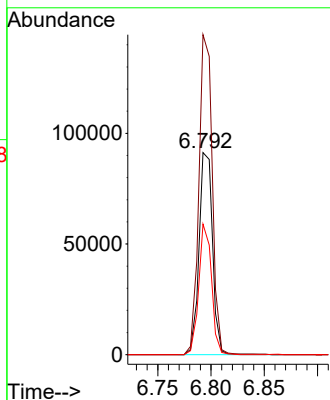
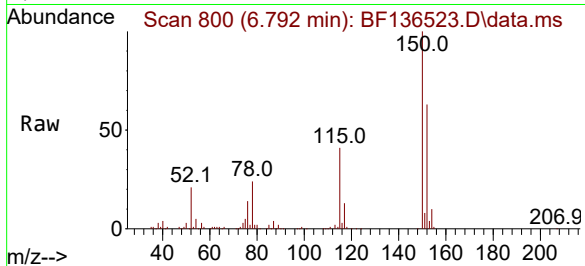




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.792 min Scan# 802
 Delta R.T. -0.012 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

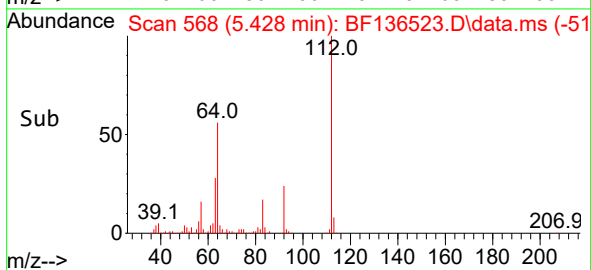
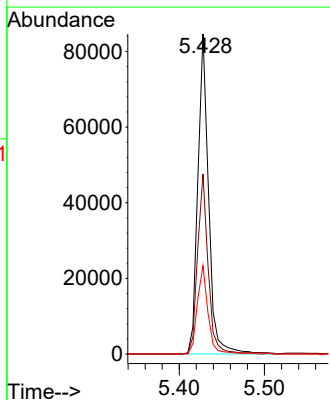
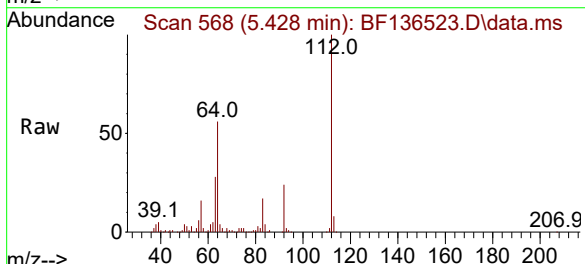
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

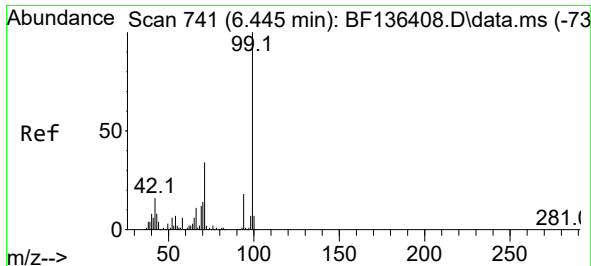
Tgt Ion:152 Resp: 80563
 Ion Ratio Lower Upper
 152 100
 150 158.4 126.4 189.6
 115 64.7 48.2 72.4



#5
 2-Fluorophenol
 Concen: 13.619 ng
 RT: 5.428 min Scan# 568
 Delta R.T. -0.006 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

Tgt Ion:112 Resp: 74296
 Ion Ratio Lower Upper
 112 100
 64 56.2 46.5 69.7
 63 27.6 23.9 35.9

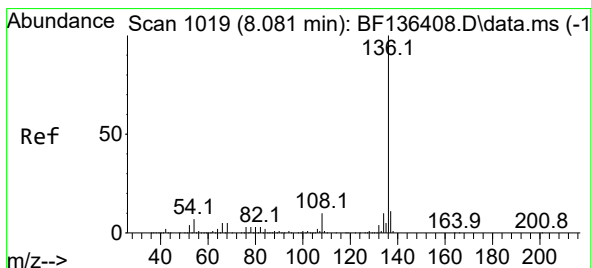
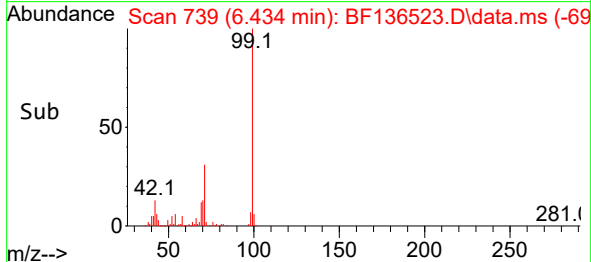
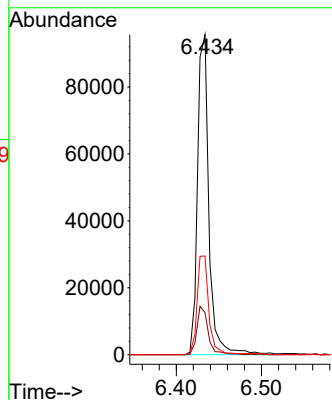
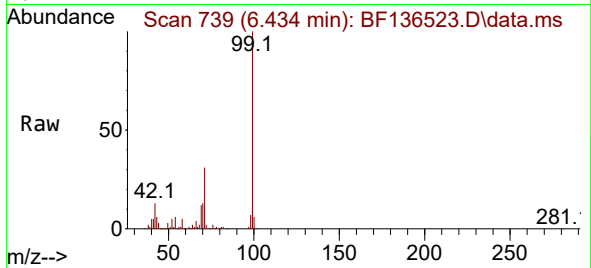




#7
Phenol-d6
Concen: 13.057 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

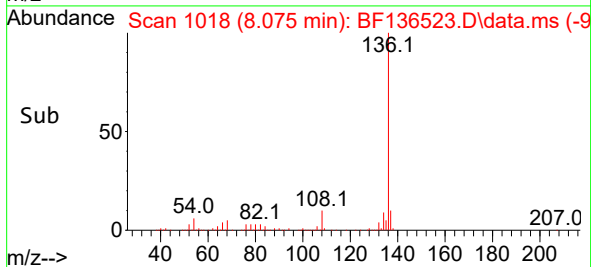
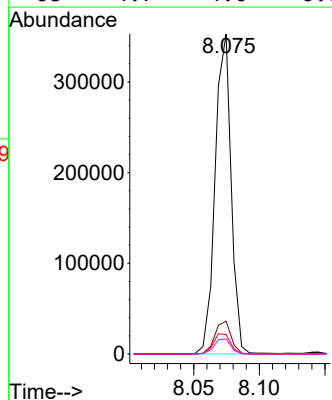
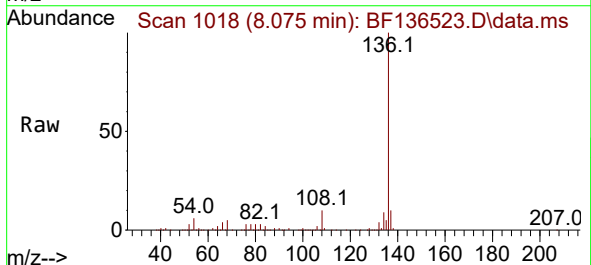
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

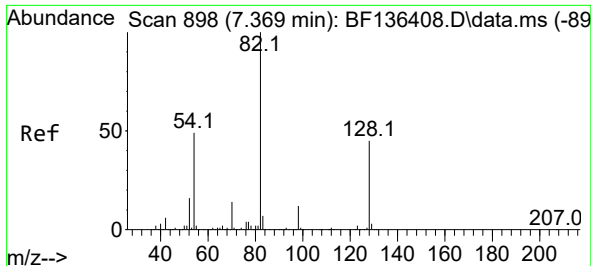
Tgt Ion: 99 Resp: 88869
Ion Ratio Lower Upper
99 100
42 13.1 12.8 19.2
71 30.9 27.0 40.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Tgt Ion: 136 Resp: 299111
Ion Ratio Lower Upper
136 100
137 10.3 8.6 12.8
54 6.0 5.7 8.5
68 4.7 4.0 6.0





#23

Nitrobenzene-d5

Concen: 8.818 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.018 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

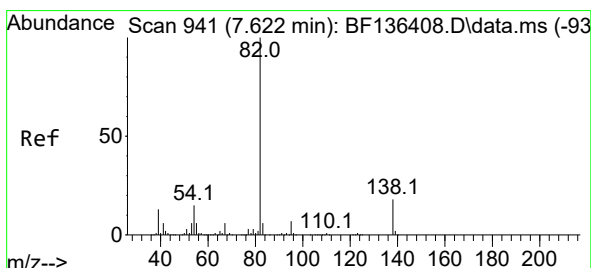
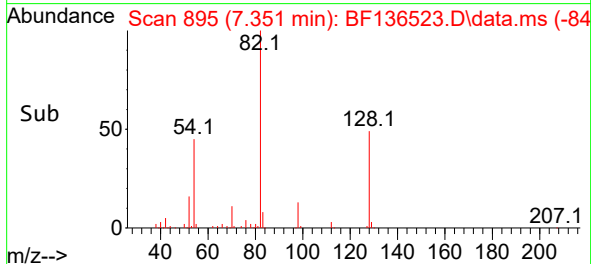
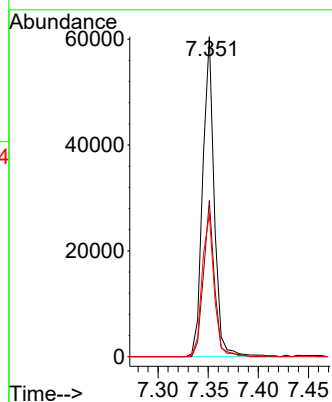
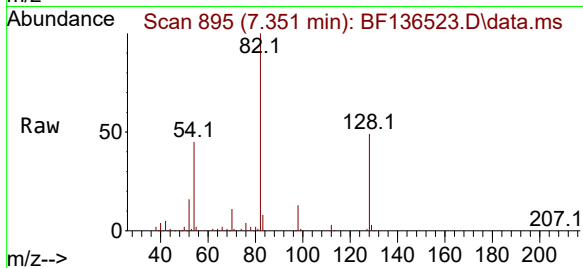
Tgt Ion: 82 Resp: 48788

Ion Ratio Lower Upper

82 100

128 48.8 36.3 54.5

54 44.5 39.0 58.6



#25

Isophorone

Concen: 4.908 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.271 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

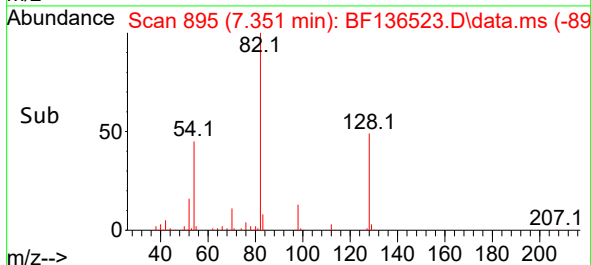
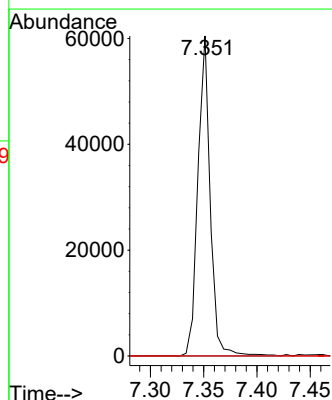
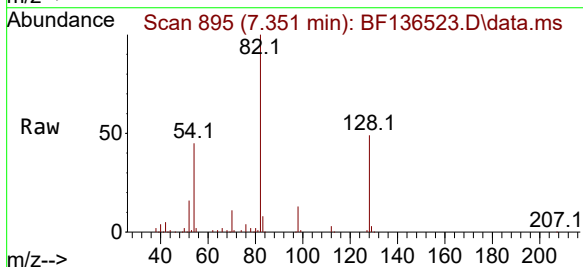
Tgt Ion: 82 Resp: 48788

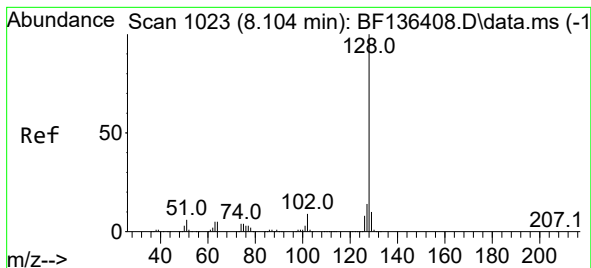
Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

138 0.0 14.5 21.7#





#31

Naphthalene

Concen: 34.876 ng

RT: 8.092 min Scan# 1021

Delta R.T. -0.012 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

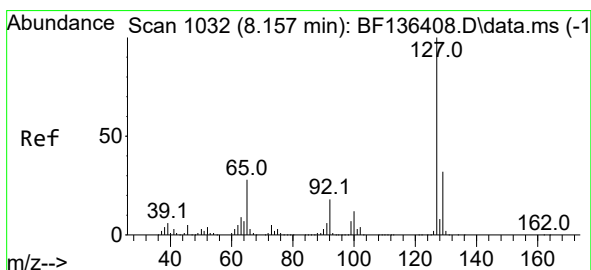
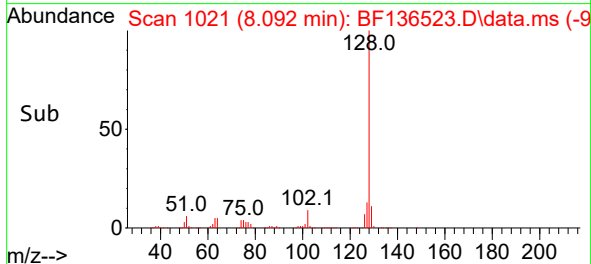
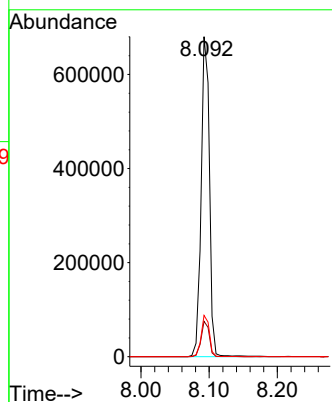
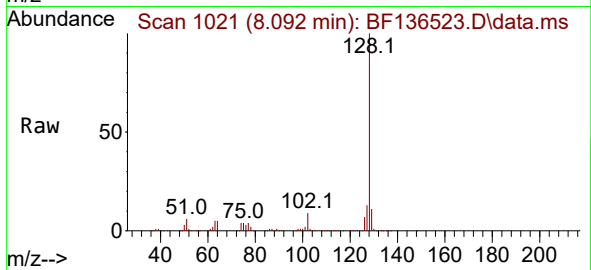
Tgt Ion:128 Resp: 575264

Ion Ratio Lower Upper

128 100

129 11.1 8.3 12.5

127 12.9 11.1 16.7



#33

4-Chloroaniline

Concen: 12.457 ng

RT: 8.092 min Scan# 1021

Delta R.T. -0.065 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Tgt Ion:127 Resp: 73253

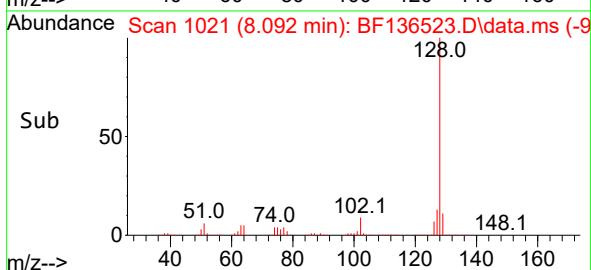
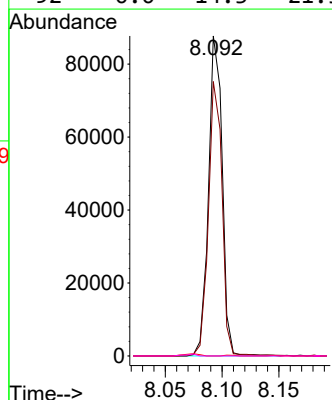
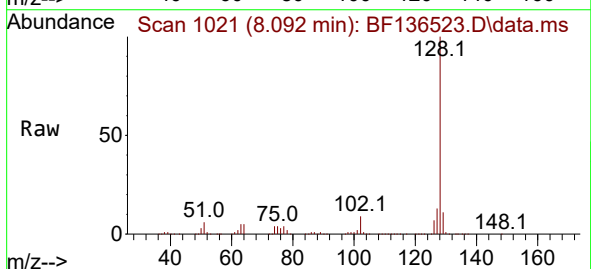
Ion Ratio Lower Upper

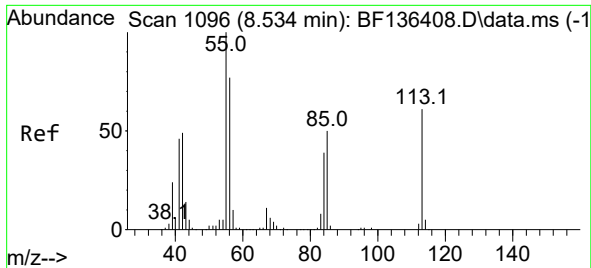
127 100

129 85.7 25.4 38.2#

65 0.0 22.5 33.7#

92 0.0 14.3 21.5#

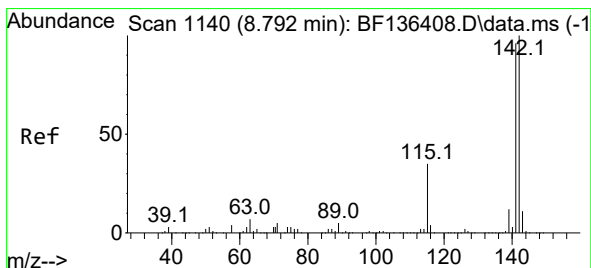
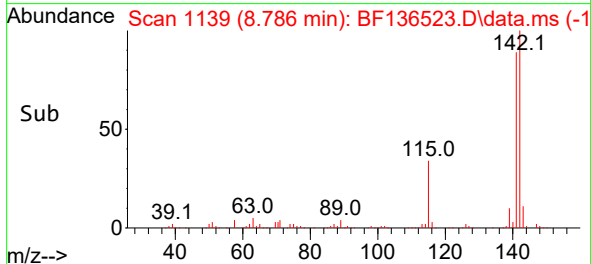
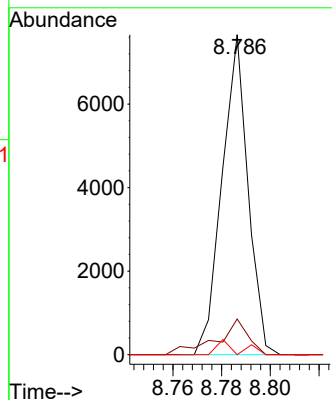
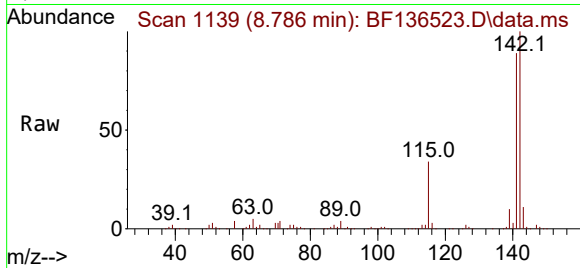




#35
 Caprolactam
 Concen: 4.135 ng
 RT: 8.786 min Scan# 1139
 Delta R.T. 0.253 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

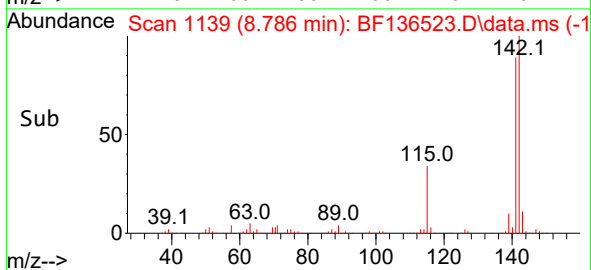
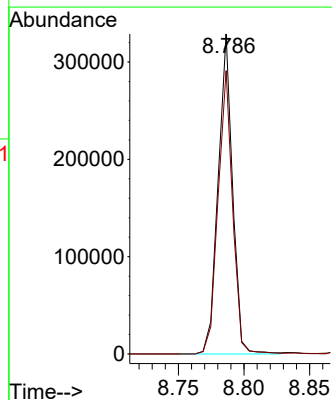
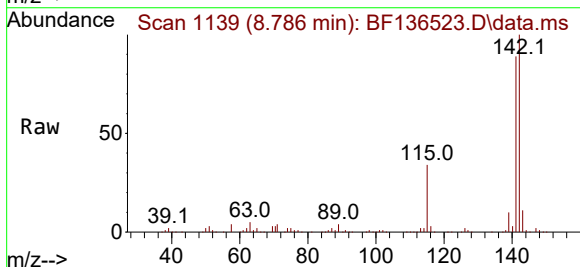
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

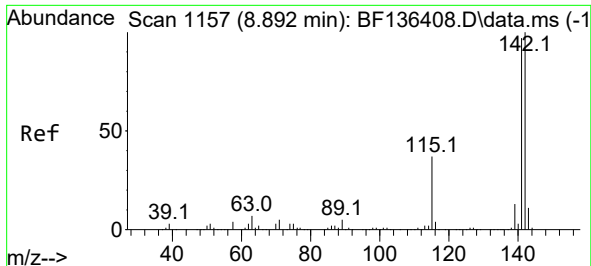
Tgt Ion:113 Resp: 5671
 Ion Ratio Lower Upper
 113 100
 55 11.2 143.7 183.7#
 56 0.0 105.2 145.2#



#37
 2-Methylnaphthalene
 Concen: 23.919 ng
 RT: 8.786 min Scan# 1139
 Delta R.T. -0.006 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

Tgt Ion:142 Resp: 250997
 Ion Ratio Lower Upper
 142 100
 141 88.6 76.4 114.6





#38

1-Methylnaphthalene

Concen: 11.947 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

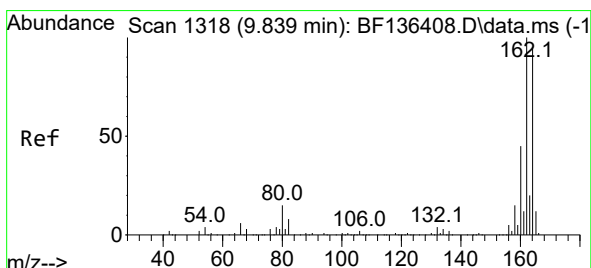
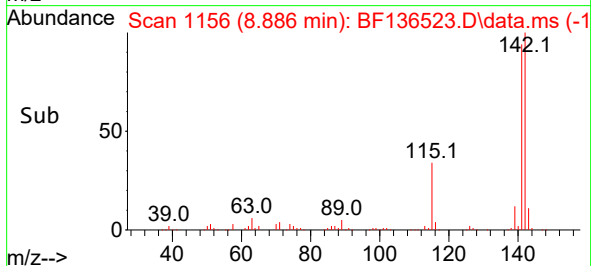
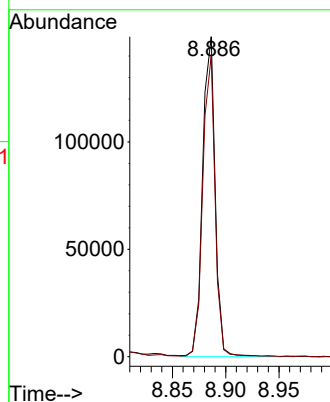
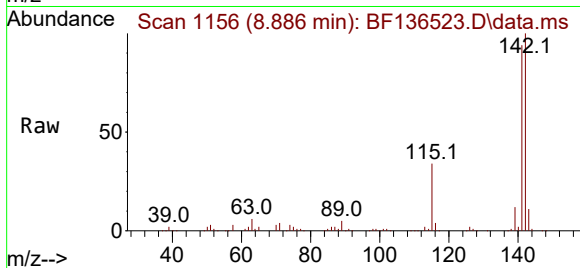
VNJ-216DL

Tgt Ion:142 Resp: 123019

Ion Ratio Lower Upper

142 100

141 94.0 77.7 116.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

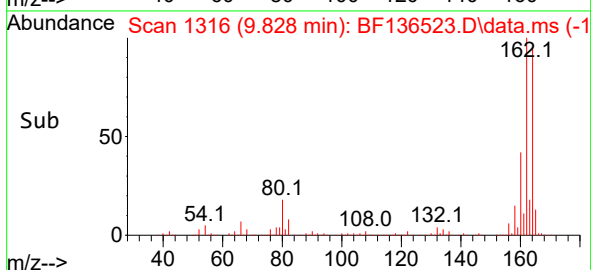
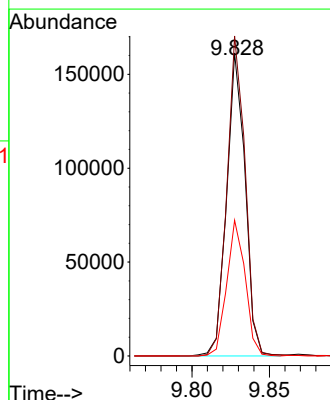
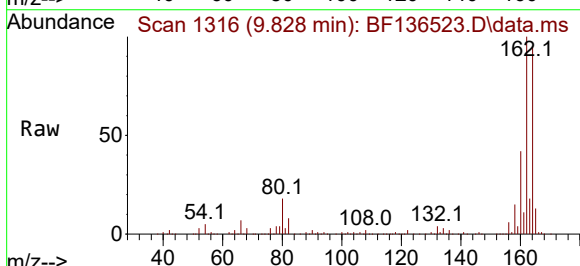
Tgt Ion:164 Resp: 133751

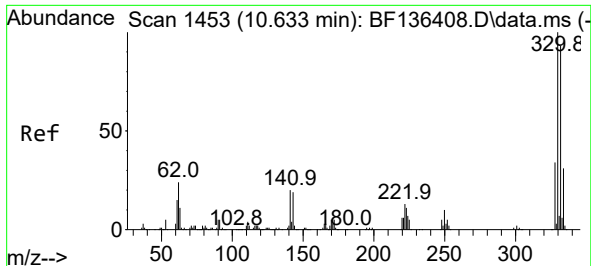
Ion Ratio Lower Upper

164 100

162 105.6 84.4 126.6

160 44.8 37.6 56.4





#42

2,4,6-Tribromophenol

Concen: 10.034 ng

RT: 10.622 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

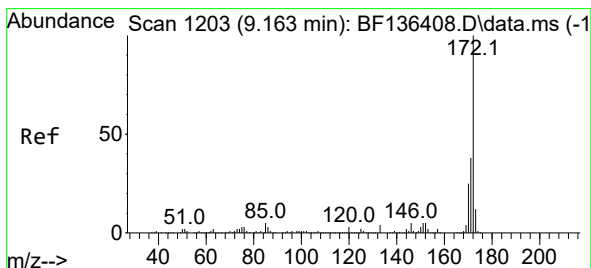
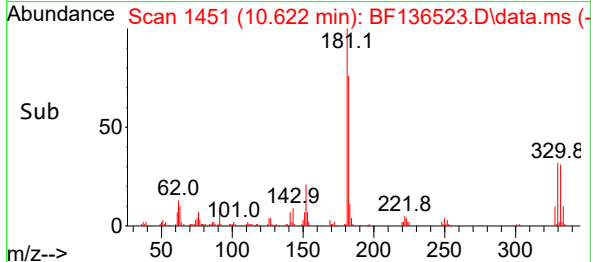
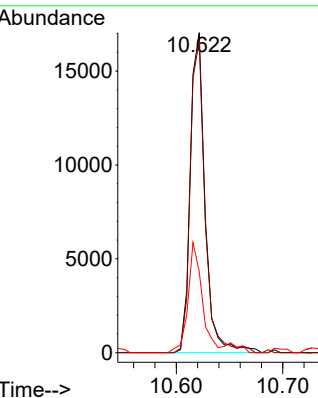
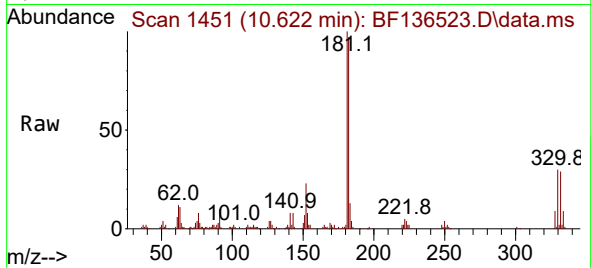
Tgt Ion:330 Resp: 16547

Ion Ratio Lower Upper

330 100

332 96.8 76.4 114.6

141 33.3 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 9.894 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.018 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

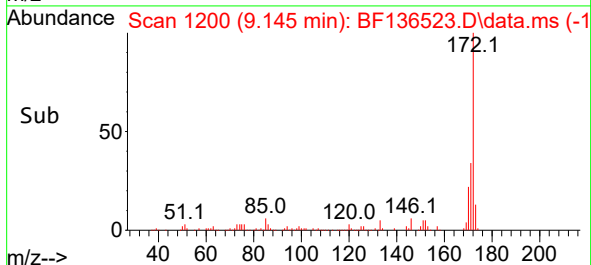
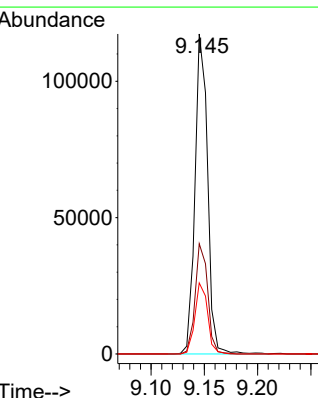
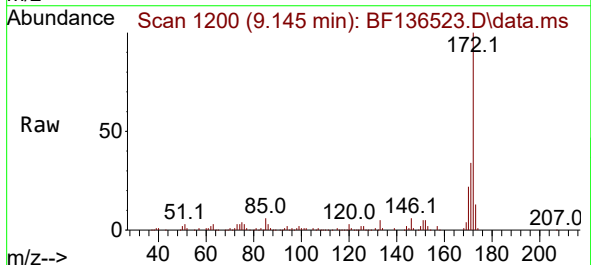
Tgt Ion:172 Resp: 96987

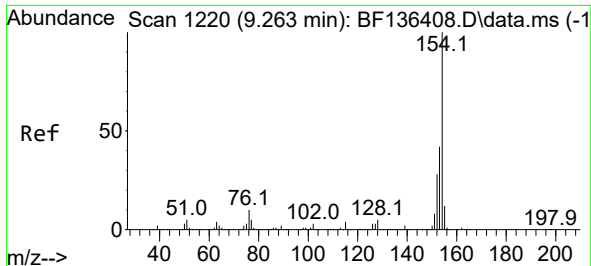
Ion Ratio Lower Upper

172 100

171 34.5 30.5 45.7

170 22.2 19.9 29.9

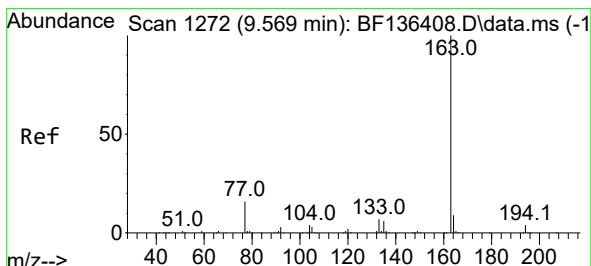
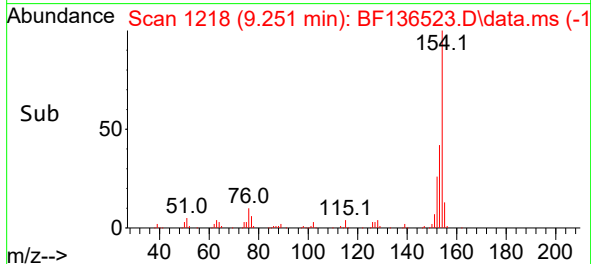
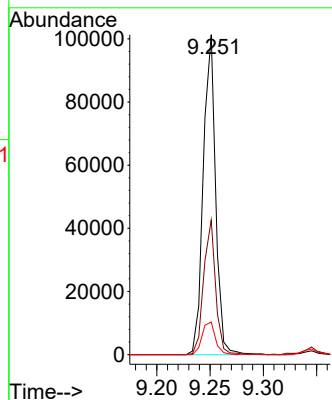
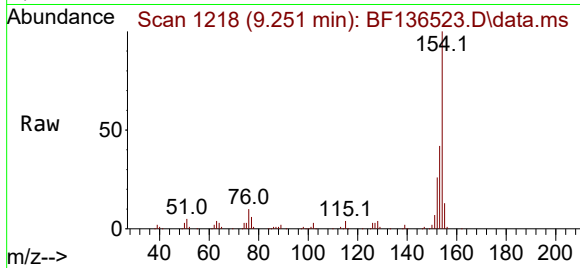




#46
 1,1'-Biphenyl
 Concen: 7.211 ng
 RT: 9.251 min Scan# 1316
 Delta R.T. -0.012 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

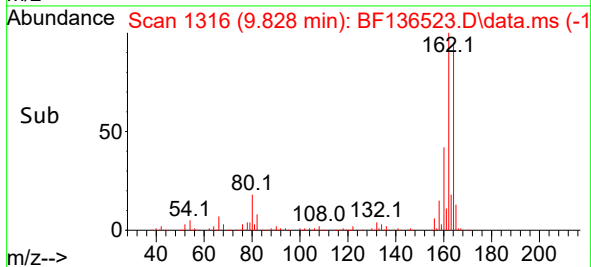
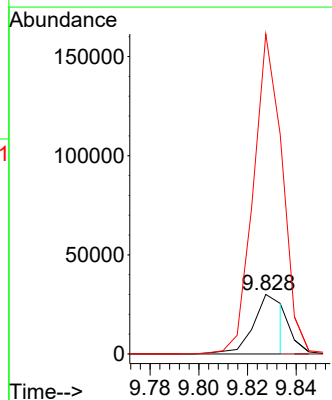
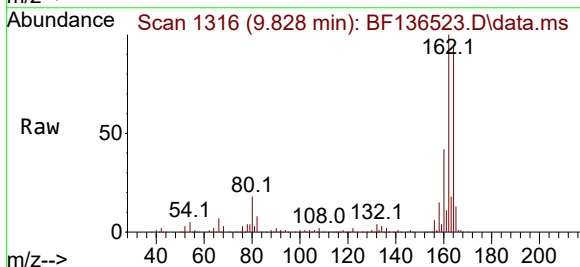
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

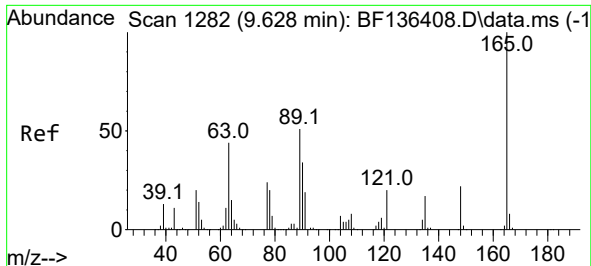
Tgt Ion:154 Resp: 82072
 Ion Ratio Lower Upper
 154 100
 153 42.1 22.5 62.5
 76 10.2 0.0 29.9



#50
 Dimethylphthalate
 Concen: 2.578 ng
 RT: 9.828 min Scan# 1316
 Delta R.T. 0.259 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

Tgt Ion:163 Resp: 25385
 Ion Ratio Lower Upper
 163 100
 194 0.0 3.0 4.6#
 164 538.2 7.4 11.2#

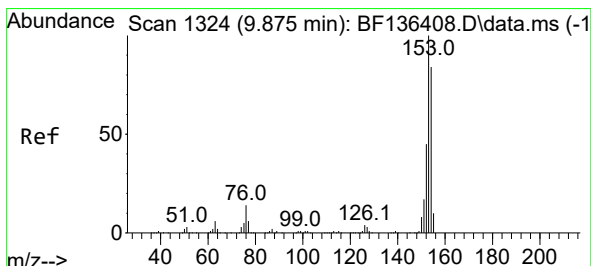
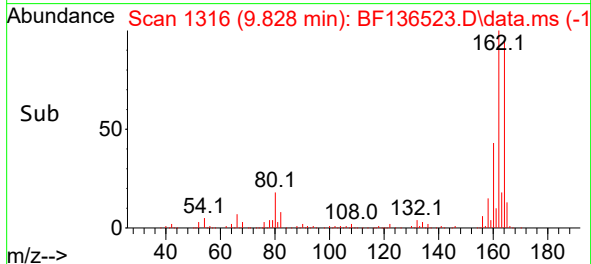
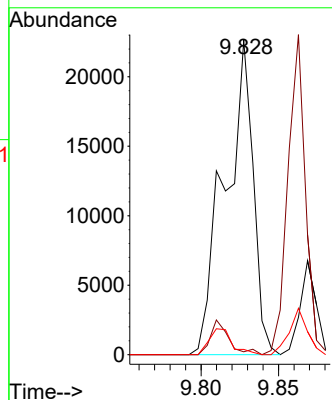
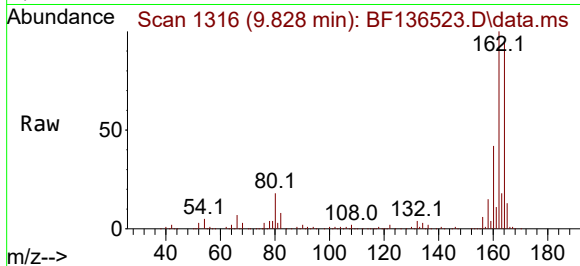




#51
2,6-Dinitrotoluene
Concen: 12.923 ng
RT: 9.828 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

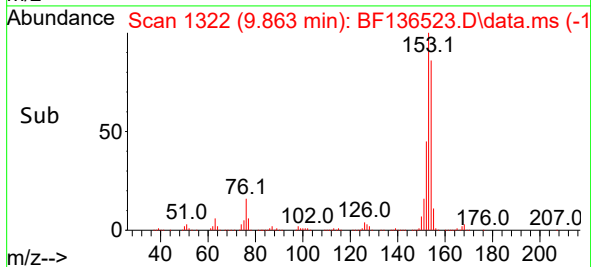
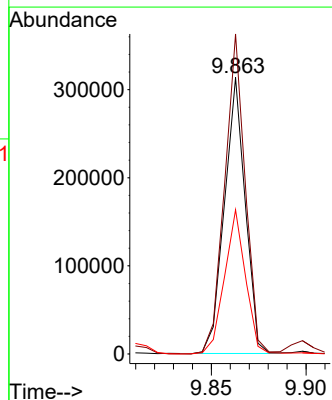
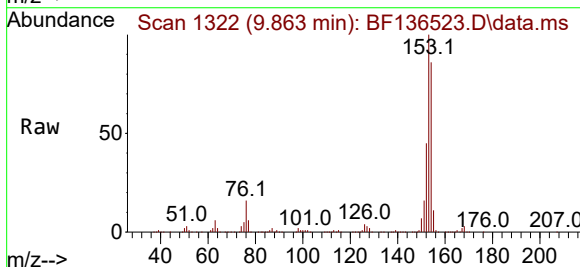
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

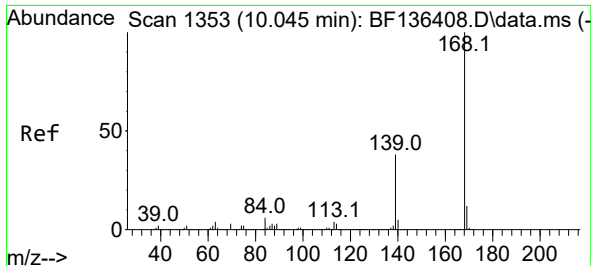
Tgt Ion:165 Resp: 28629
Ion Ratio Lower Upper
165 100
63 0.9 40.4 60.6#
89 1.7 40.6 60.8#



#52
Acenaphthene
Concen: 29.655 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Tgt Ion:154 Resp: 239789
Ion Ratio Lower Upper
154 100
153 115.7 95.3 142.9
152 52.2 43.2 64.8

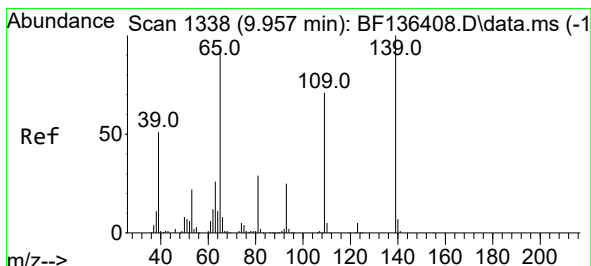
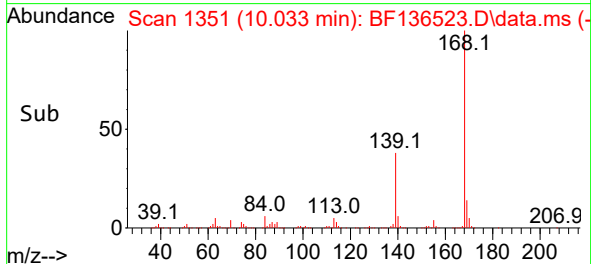
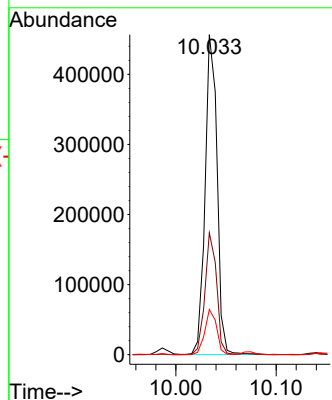
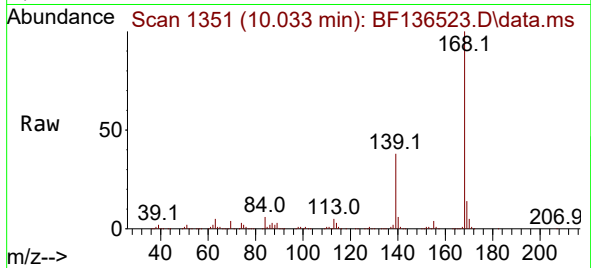




#55
Dibenzenofuran
Concen: 32.137 ng
RT: 10.033 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

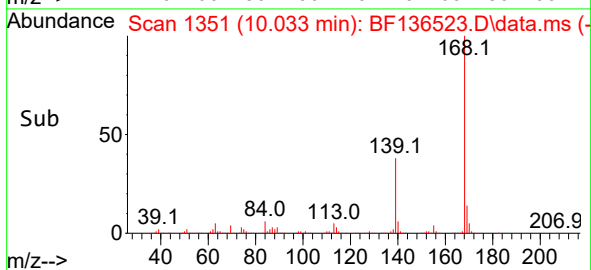
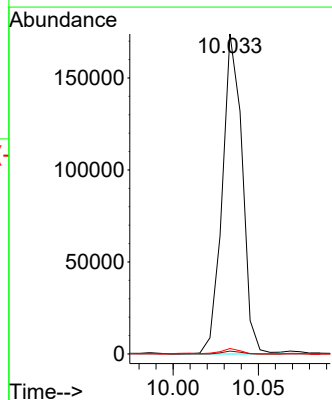
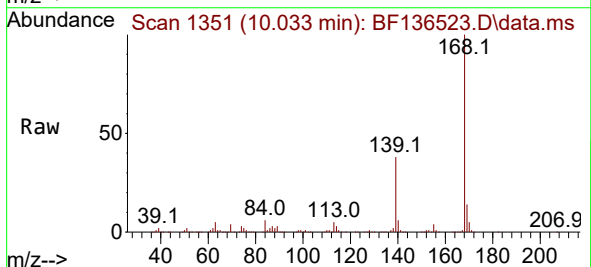
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

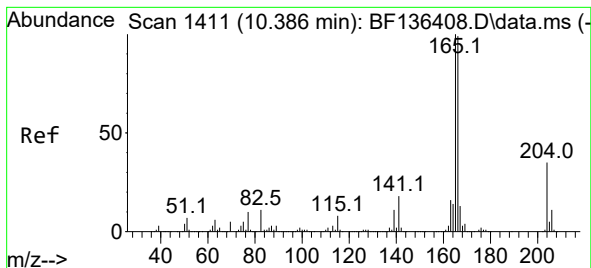
Tgt Ion:168 Resp: 379619
Ion Ratio Lower Upper
168 100
139 38.1 30.4 45.6
169 14.1 9.9 14.9



#56
4-Nitrophenol
Concen: 83.606 ng
RT: 10.033 min Scan# 1351
Delta R.T. 0.076 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Tgt Ion:139 Resp: 141786
Ion Ratio Lower Upper
139 100
109 0.9 50.6 90.6#
65 1.7 73.1 113.1#





#58

Fluorene

Concen: 36.462 ng

RT: 10.380 min Scan# 1411

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

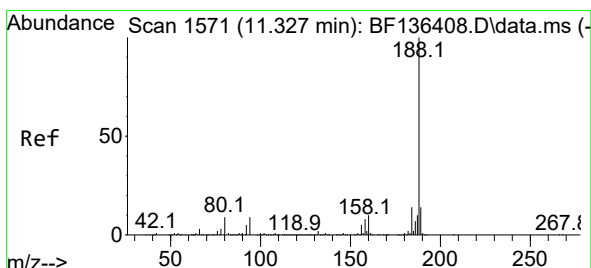
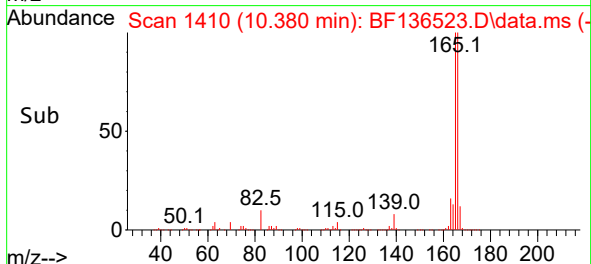
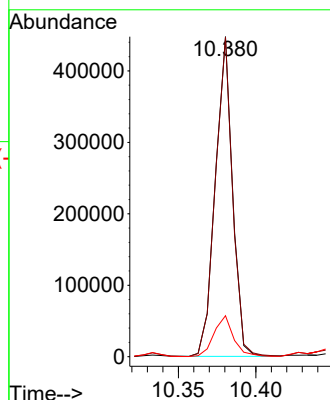
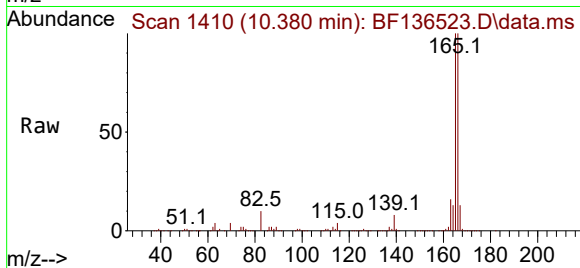
Tgt Ion:166 Resp: 345742

Ion Ratio Lower Upper

166 100

165 99.8 80.5 120.7

167 12.8 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1570

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

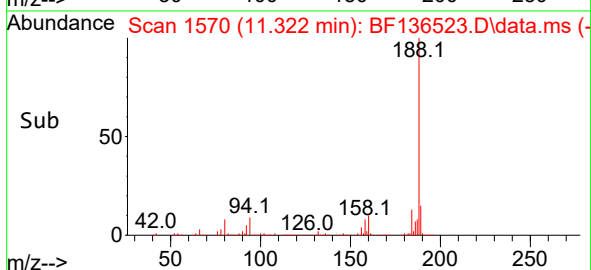
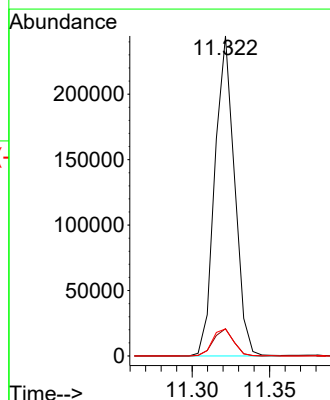
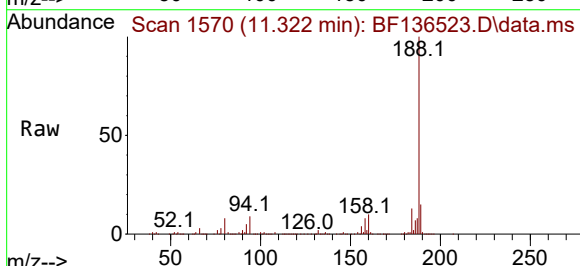
Tgt Ion:188 Resp: 216411

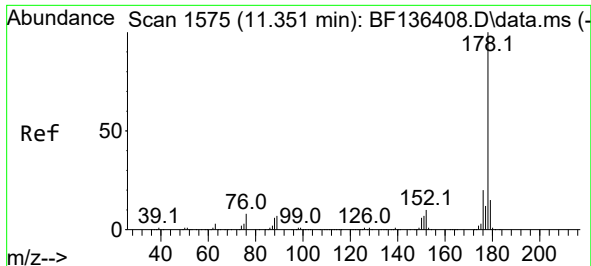
Ion Ratio Lower Upper

188 100

94 8.5 7.2 10.8

80 8.5 7.2 10.8

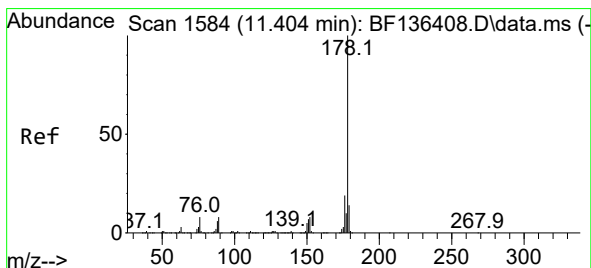
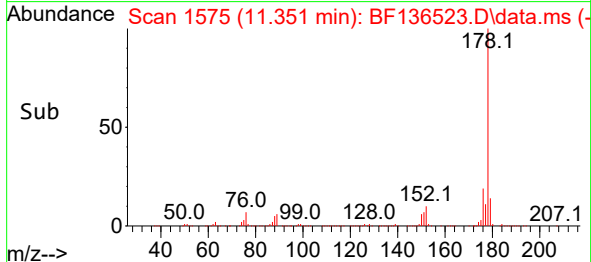
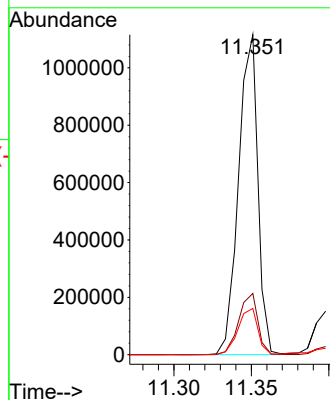
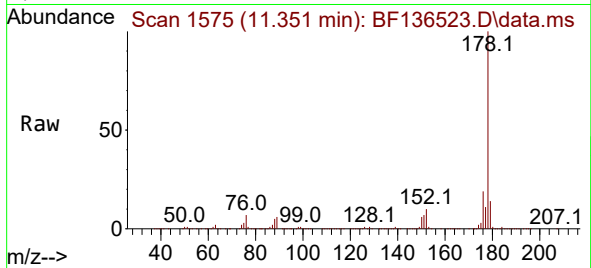




#71
Phenanthrene
Concen: 81.256 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

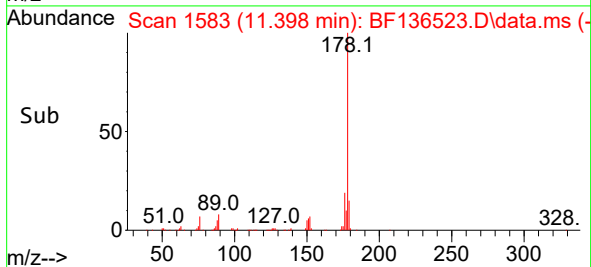
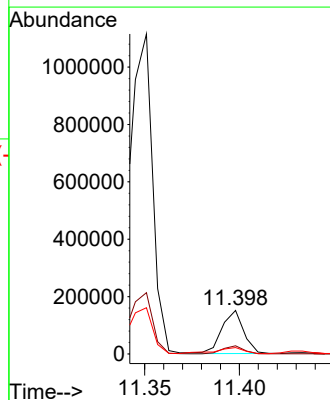
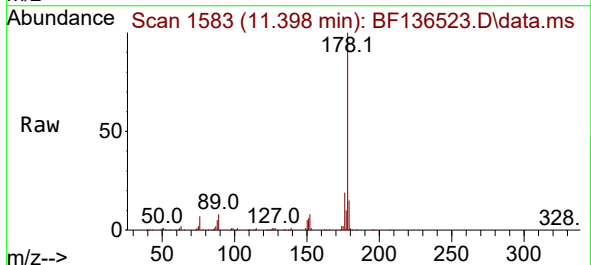
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

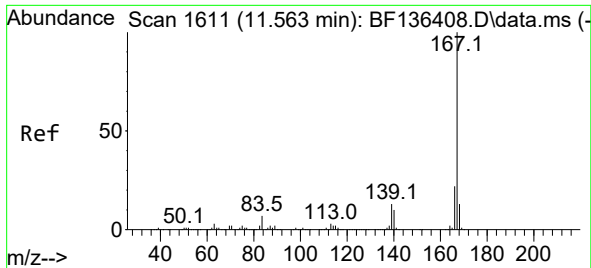
Tgt Ion:178 Resp: 966528
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 14.5 11.8 17.6



#72
Anthracene
Concen: 10.173 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Tgt Ion:178 Resp: 121885
Ion Ratio Lower Upper
178 100
176 18.6 15.3 22.9
179 14.7 11.4 17.0

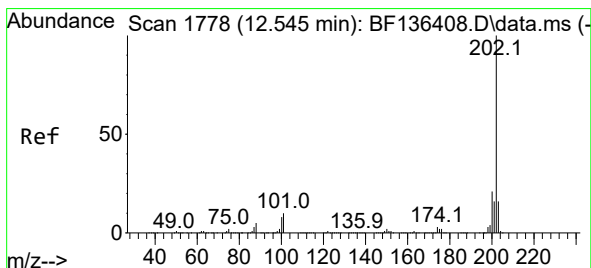
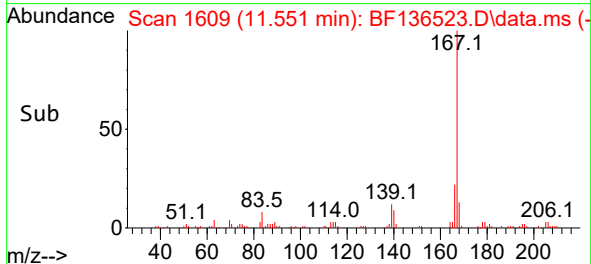
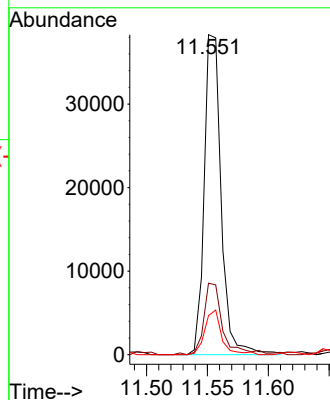
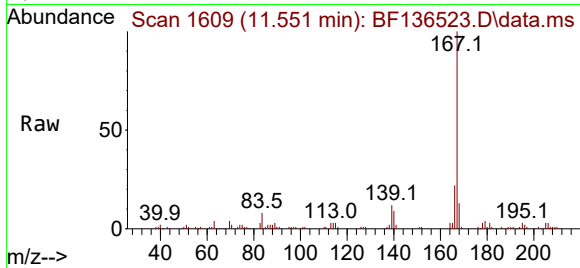




#73
 Carbazole
 Concen: 3.509 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.012 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

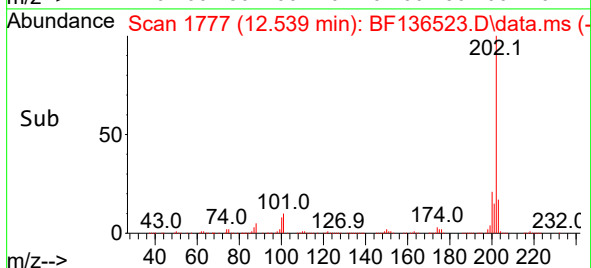
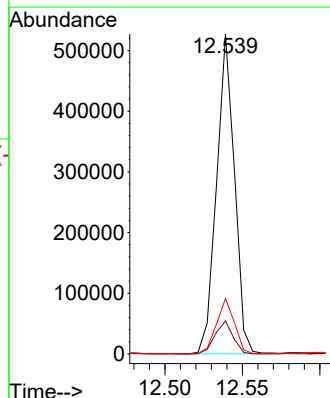
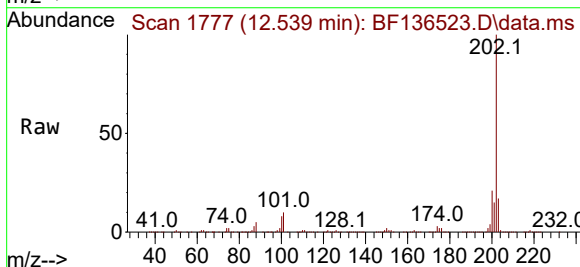
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

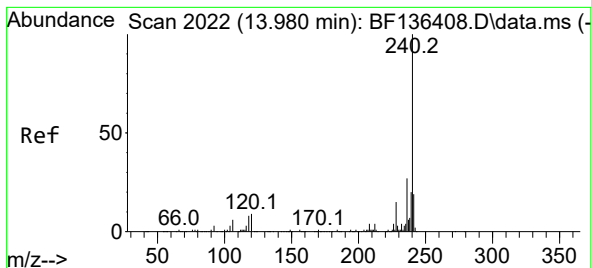
Tgt Ion:167 Resp: 37212
 Ion Ratio Lower Upper
 167 100
 166 22.4 18.0 27.0
 139 12.2 10.2 15.4



#75
 Fluoranthene
 Concen: 33.968 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

Tgt Ion:202 Resp: 423423
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 29.9
 203 17.3 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

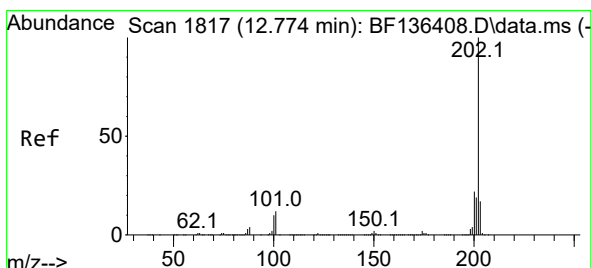
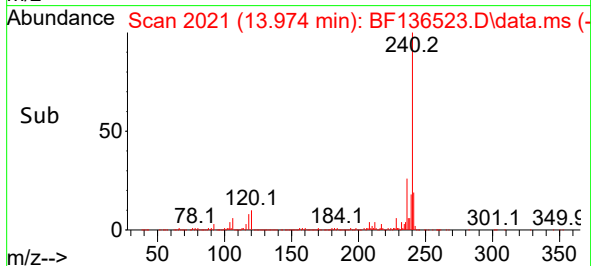
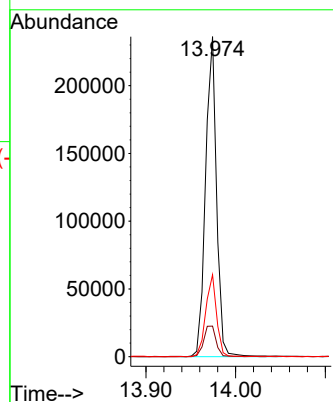
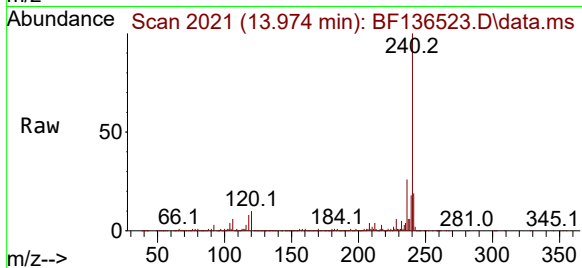
Tgt Ion:240 Resp: 200360

Ion Ratio Lower Upper

240 100

120 9.6 7.3 10.9

236 25.6 21.3 31.9



#78

Pyrene

Concen: 13.698 ng

RT: 12.768 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

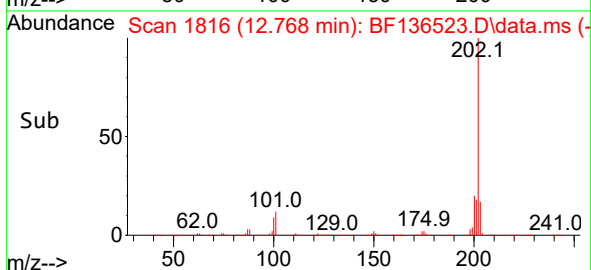
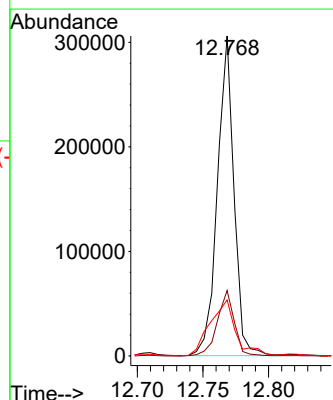
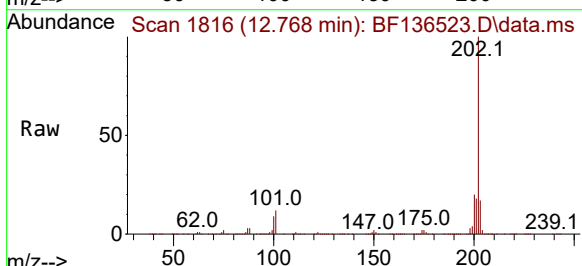
Tgt Ion:202 Resp: 268791

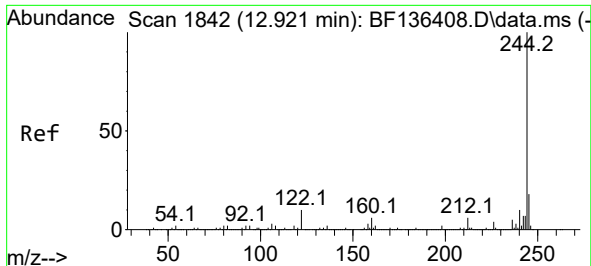
Ion Ratio Lower Upper

202 100

200 20.5 18.0 27.0

203 17.5 13.5 20.3

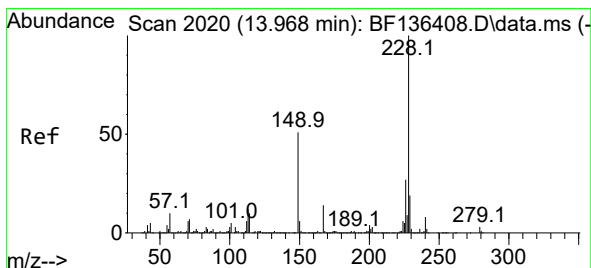
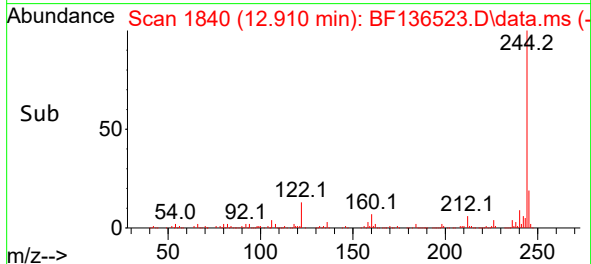
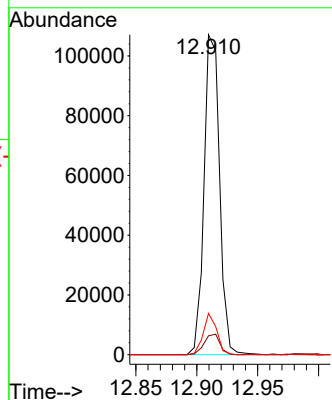
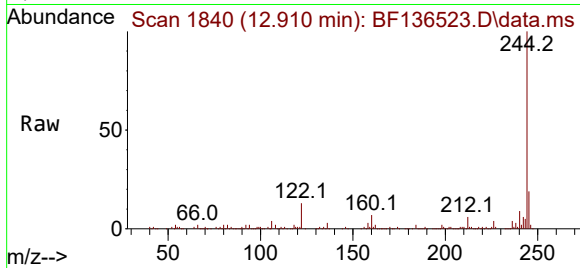




#79
 Terphenyl-d14
 Concen: 6.231 ng
 RT: 12.910 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

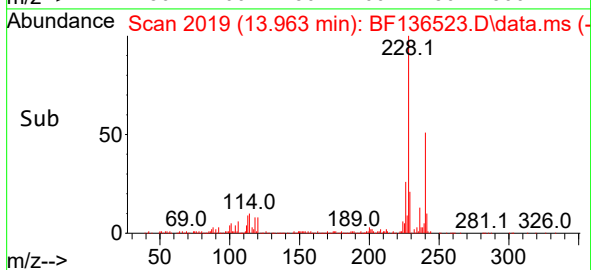
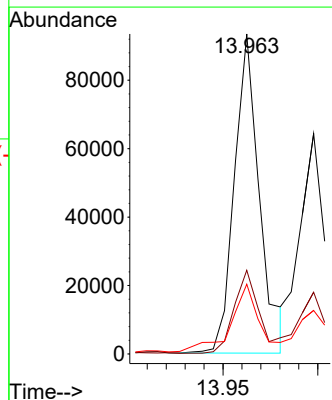
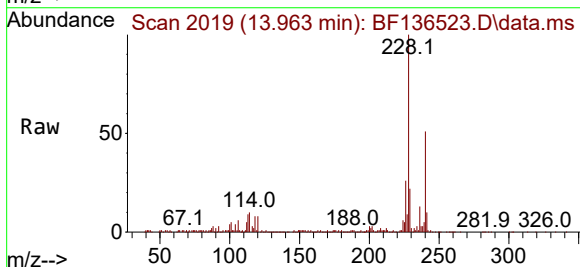
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

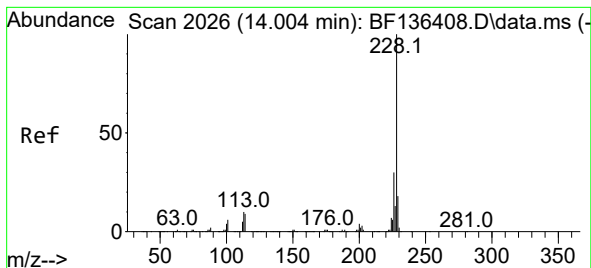
Tgt Ion:244 Resp: 94716
 Ion Ratio Lower Upper
 244 100
 212 5.9 5.0 7.4
 122 12.9 8.3 12.5#



#81
 Benzo(a)anthracene
 Concen: 6.139 ng
 RT: 13.963 min Scan# 2019
 Delta R.T. -0.006 min
 Lab File: BF136523.D
 Acq: 12 Dec 2023 18:56

Tgt Ion:228 Resp: 85681
 Ion Ratio Lower Upper
 228 100
 226 26.2 21.8 32.8
 229 21.8 15.0 22.4





#83

Chrysene

Concen: 4.254 ng

RT: 13.998 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

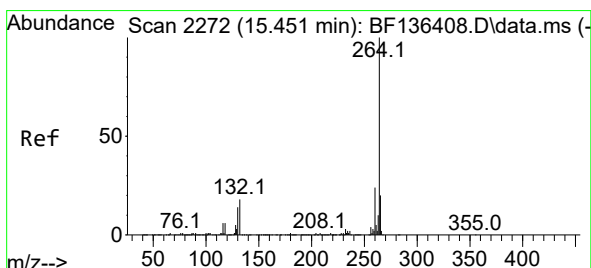
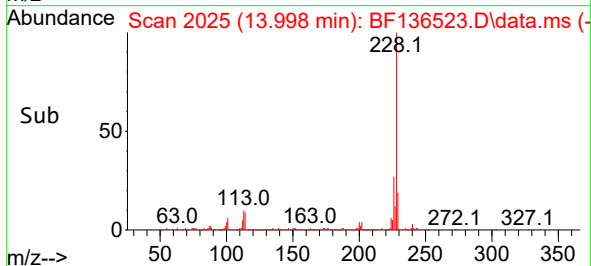
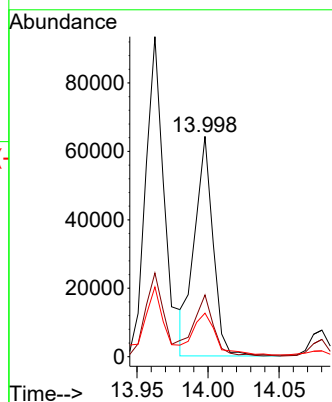
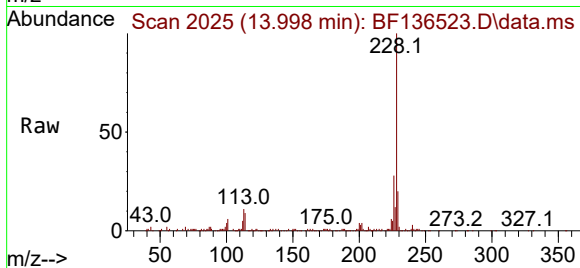
Tgt Ion:228 Resp: 58417

Ion Ratio Lower Upper

228 100

226 28.0 23.8 35.6

229 19.8 14.8 22.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.006 min

Lab File: BF136523.D

Acq: 12 Dec 2023 18:56

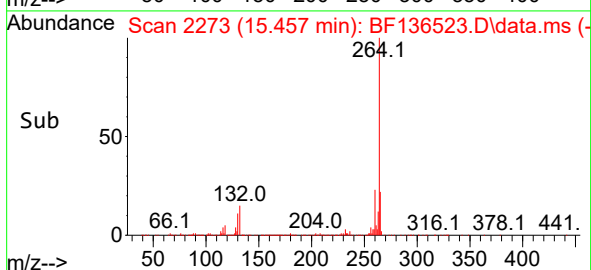
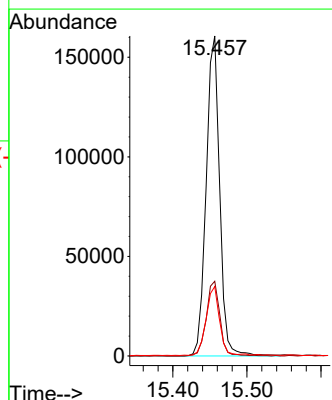
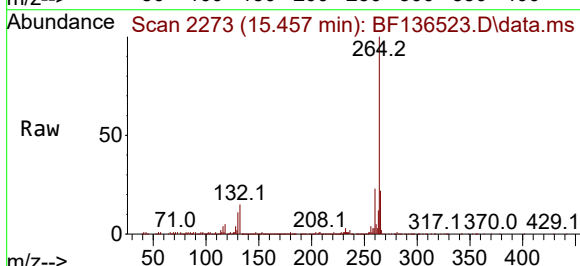
Tgt Ion:264 Resp: 203482

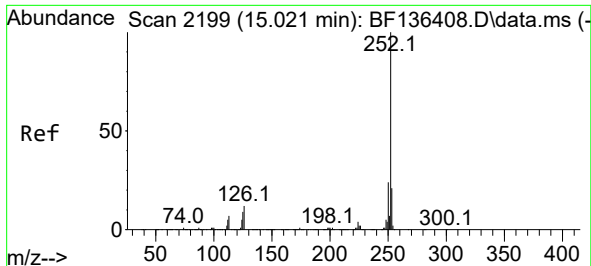
Ion Ratio Lower Upper

264 100

260 23.4 19.2 28.8

265 21.7 15.9 23.9

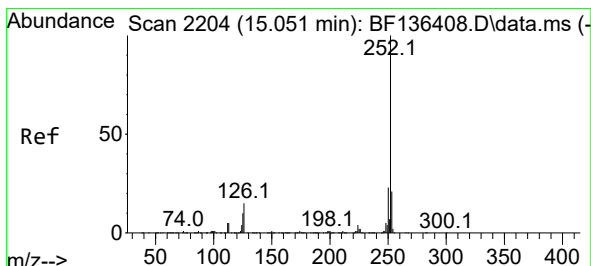
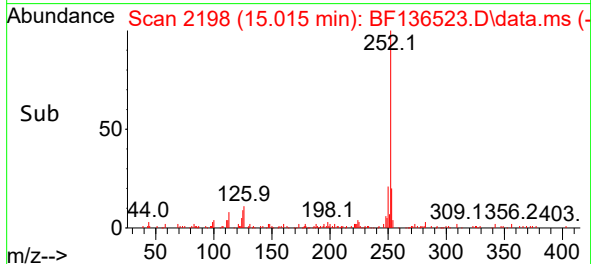
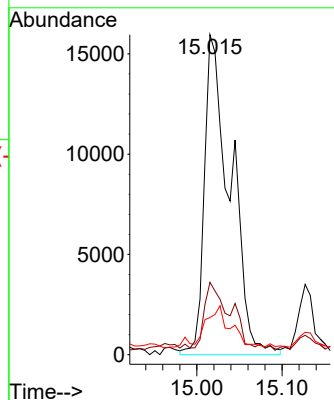
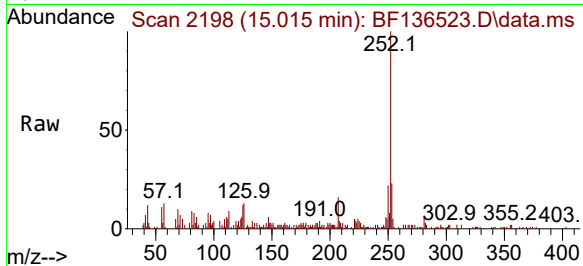




#88
Benzo(b)fluoranthene
Concen: 2.434 ng
RT: 15.015 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

Tgt Ion:252 Resp: 33868
Ion Ratio Lower Upper
252 100
253 22.6 16.9 25.3
125 11.6 7.4 11.2#



#89
Benzo(k)fluoranthene
Concen: 2.479 ng
RT: 15.015 min Scan# 2198
Delta R.T. -0.035 min
Lab File: BF136523.D
Acq: 12 Dec 2023 18:56

Tgt Ion:252 Resp: 32499
Ion Ratio Lower Upper
252 100
253 22.6 16.9 25.3
125 11.6 7.5 11.3#

