

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
 Data File : BF136554.D
 Acq On : 13 Dec 2023 23:57
 Operator : CG\JU
 Sample : 05629-01DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

Quant Time: Dec 14 01:47:04 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)

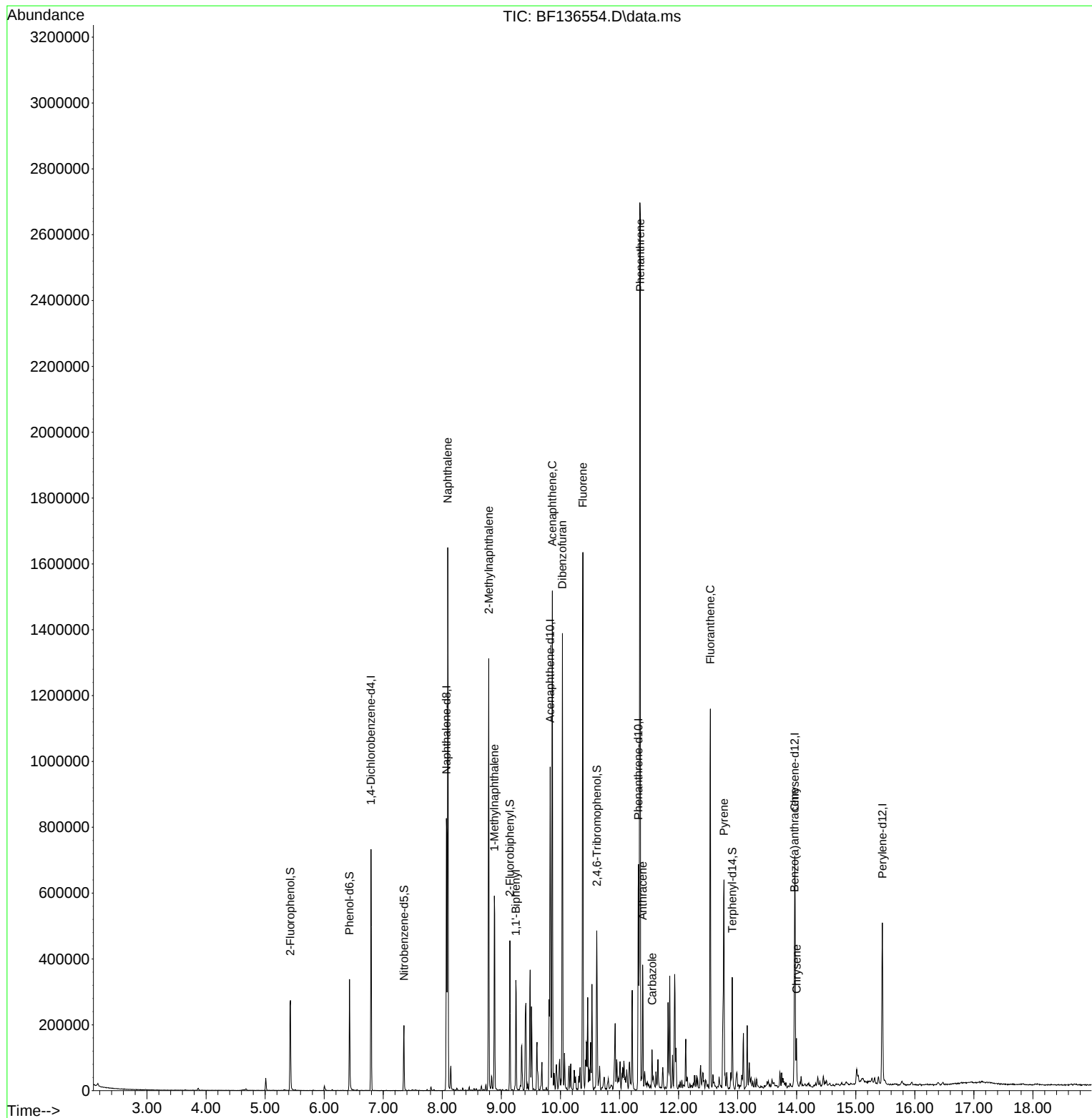
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	100602	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	384850	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	184981	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	277492	20.000	ng	0.00
76) Chrysene-d12	13.968	240	212598	20.000	ng	-0.01
86) Perylene-d12	15.451	264	227327	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	82147	12.059	ng	0.00
7) Phenol-d6	6.428	99	102861	12.103	ng	-0.02
23) Nitrobenzene-d5	7.351	82	57717	8.108	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	20117	8.820	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	120817	8.912	ng	-0.02
79) Terphenyl-d14	12.910	244	102059	6.327	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	8.092	128	689630	32.495	ng	98
37) 2-Methylnaphthalene	8.786	142	313902	23.249	ng	93
38) 1-Methylnaphthalene	8.881	142	153466	11.583	ng	94
46) 1,1'-Biphenyl	9.245	154	104503	6.639	ng	96
52) Acenaphthene	9.863	154	295675	26.439	ng	97
55) Dibenzofuran	10.033	168	472474	28.920	ng	98
58) Fluorene	10.380	166	420547	32.068	ng	99
71) Phenanthrene	11.351	178	1140930	74.804	ng	99
72) Anthracene	11.392	178	135682	8.832	ng	97
73) Carbazole	11.551	167	40769	2.998	ng	96
75) Fluoranthene	12.539	202	450384	28.178	ng	97
78) Pyrene	12.769	202	275032	13.209	ng	98
81) Benzo(a)anthracene	13.963	228	76725	5.181	ng	96
83) Chrysene	13.998	228	59268	4.068	ng	95

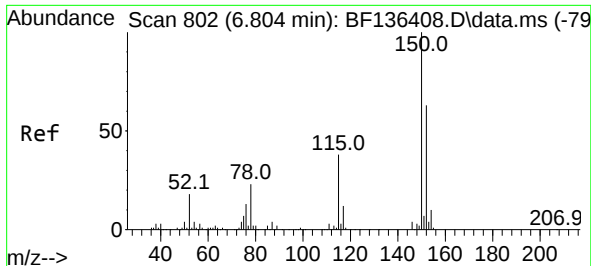
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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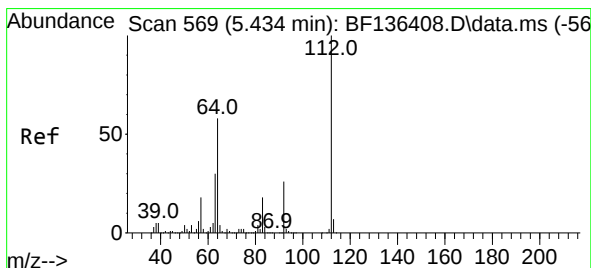
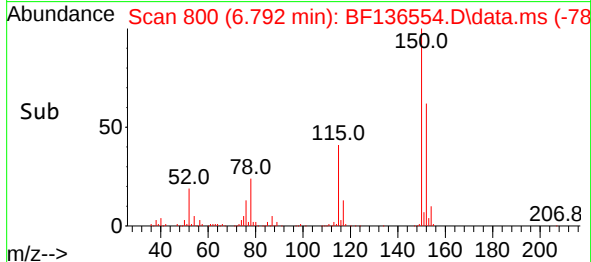
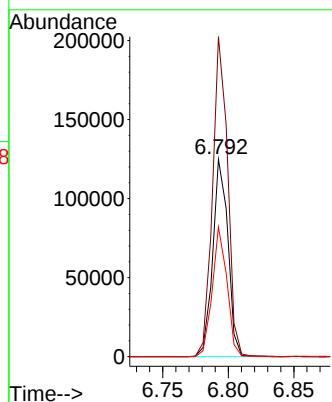
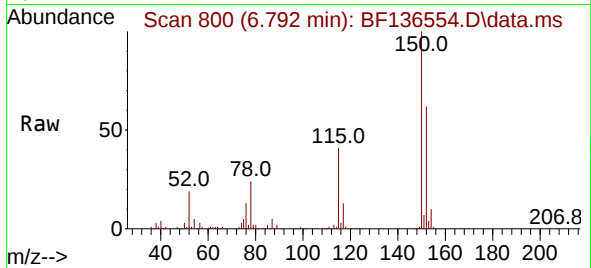




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 802
Delta R.T. -0.012 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

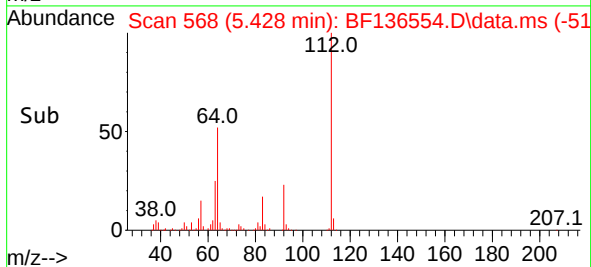
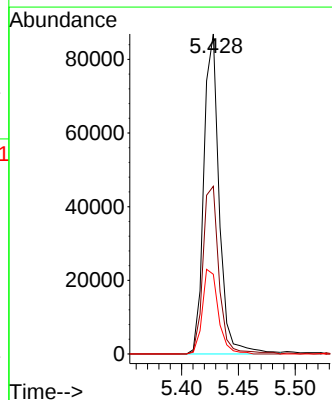
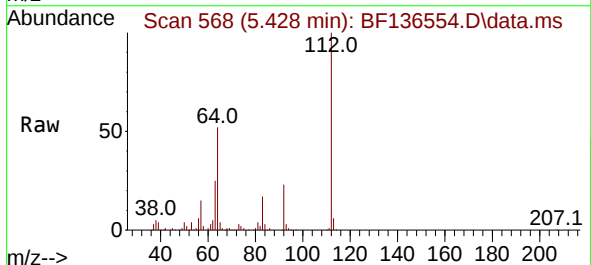
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

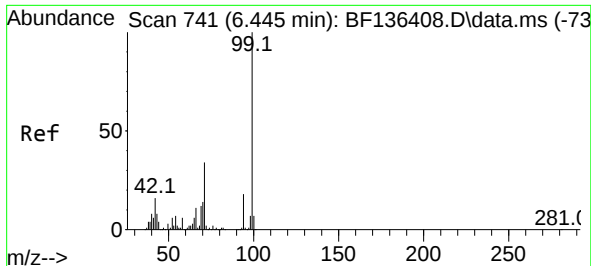
Tgt Ion:152 Resp: 100602
Ion Ratio Lower Upper
152 100
150 162.2 126.4 189.6
115 65.8 48.2 72.4



#5
2-Fluorophenol
Concen: 12.059 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

Tgt Ion:112 Resp: 82147
Ion Ratio Lower Upper
112 100
64 52.4 46.5 69.7
63 24.9 23.9 35.9

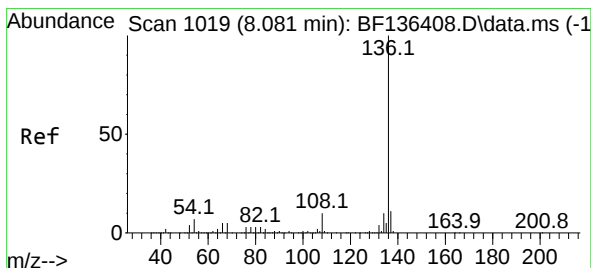
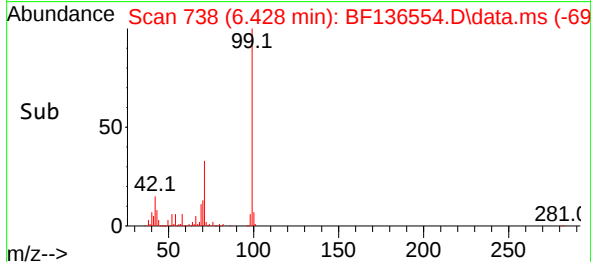
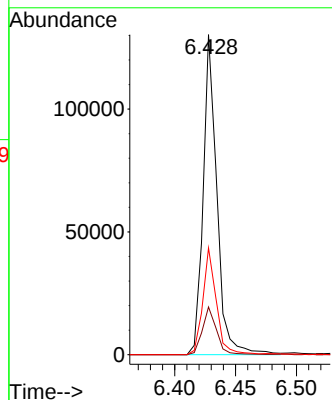
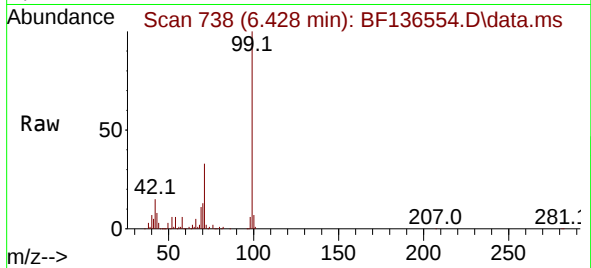




#7
Phenol-d6
Concen: 12.103 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

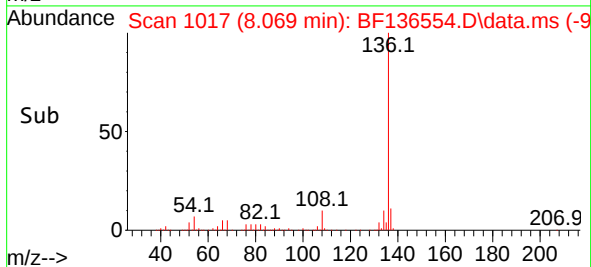
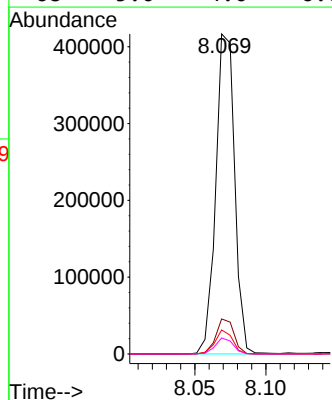
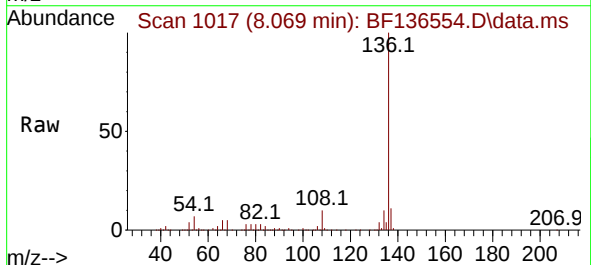
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

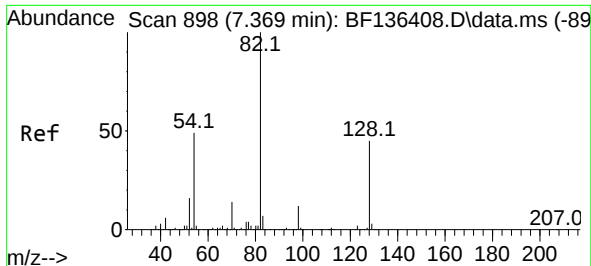
Tgt Ion: 99 Resp: 102861
Ion Ratio Lower Upper
99 100
42 14.9 12.8 19.2
71 33.4 27.0 40.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

Tgt Ion: 136 Resp: 384850
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 7.5 5.7 8.5
68 5.0 4.0 6.0





#23

Nitrobenzene-d5

Concen: 8.108 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

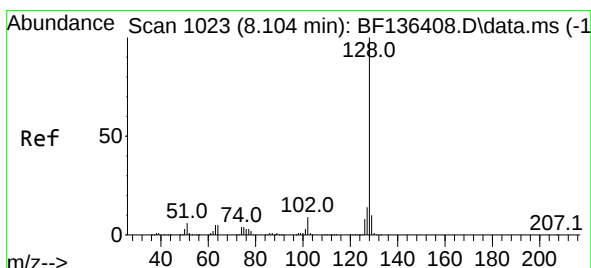
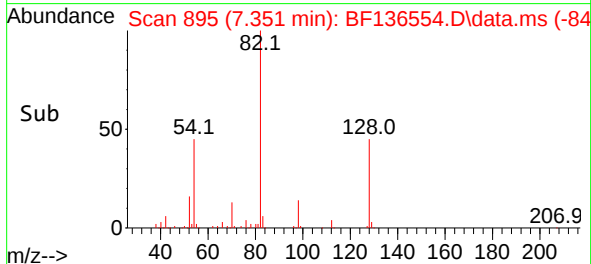
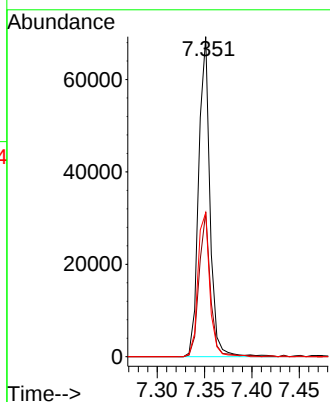
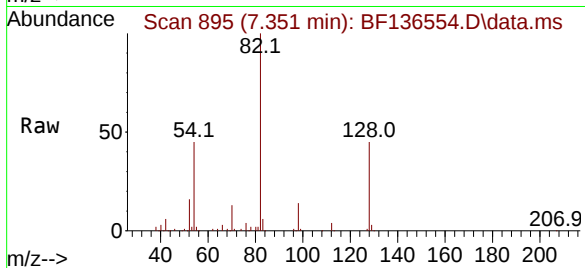
Tgt Ion: 82 Resp: 57717

Ion Ratio Lower Upper

82 100

128 45.3 36.3 54.5

54 44.9 39.0 58.6



#31

Naphthalene

Concen: 32.495 ng

RT: 8.092 min Scan# 1021

Delta R.T. -0.012 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

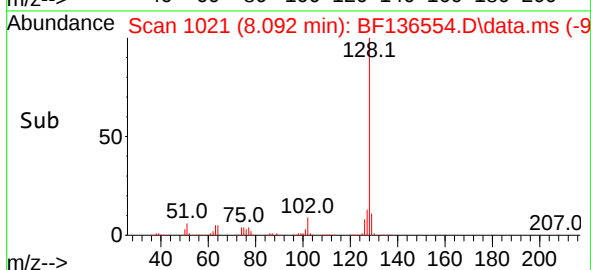
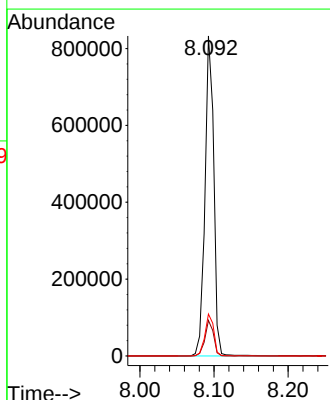
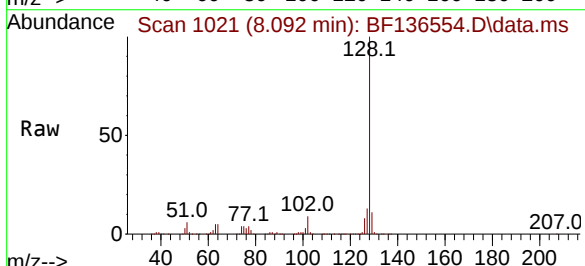
Tgt Ion: 128 Resp: 689630

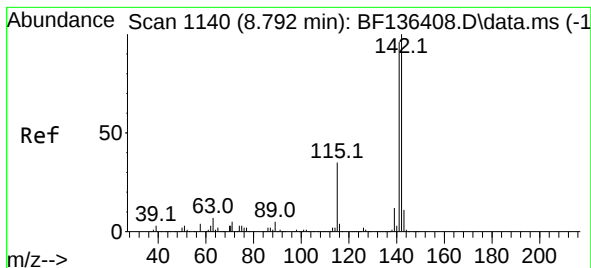
Ion Ratio Lower Upper

128 100

129 11.1 8.3 12.5

127 13.1 11.1 16.7





#37

2-Methylnaphthalene

Concen: 23.249 ng

RT: 8.786 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

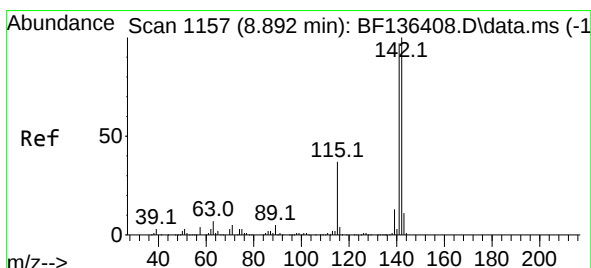
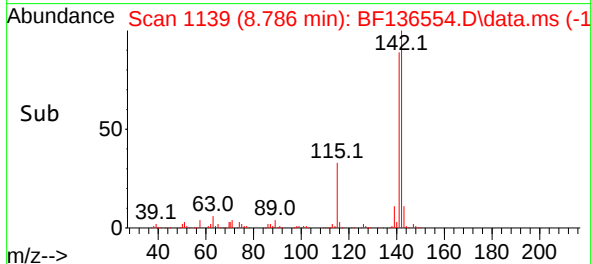
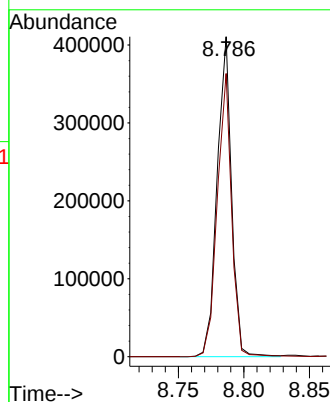
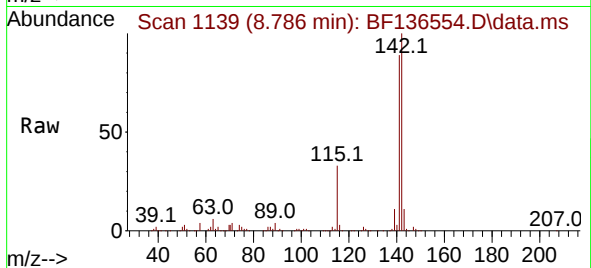
VNJ-216DL

Tgt Ion:142 Resp: 313902

Ion Ratio Lower Upper

142 100

141 88.5 76.4 114.6



#38

1-Methylnaphthalene

Concen: 11.583 ng

RT: 8.881 min Scan# 1155

Delta R.T. -0.012 min

Lab File: BF136554.D

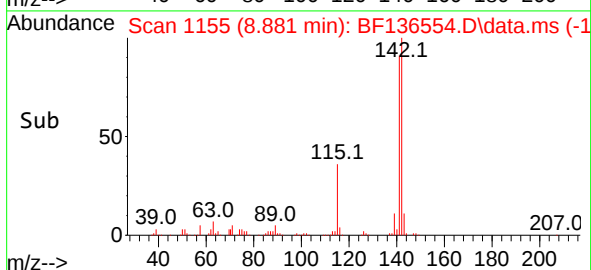
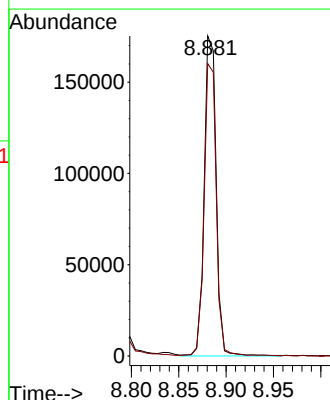
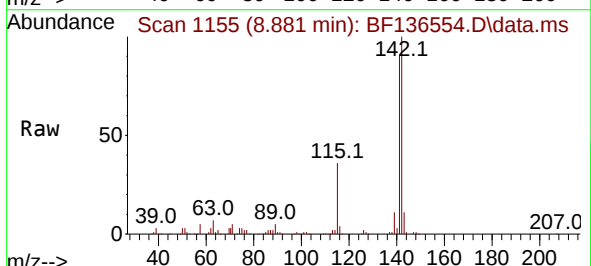
Acq: 13 Dec 2023 23:57

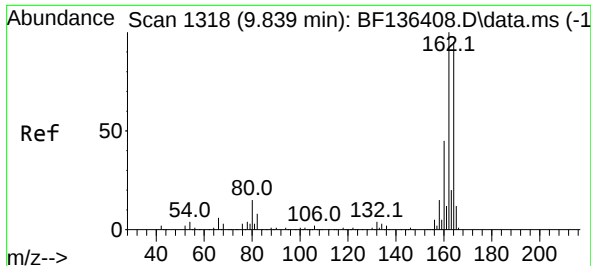
Tgt Ion:142 Resp: 153466

Ion Ratio Lower Upper

142 100

141 91.3 77.7 116.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

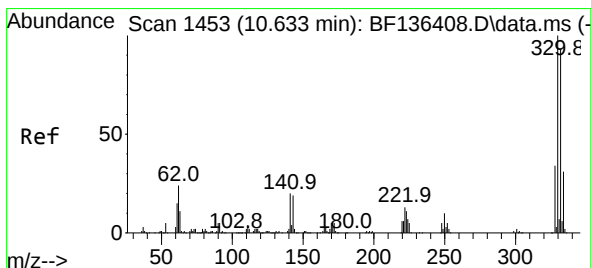
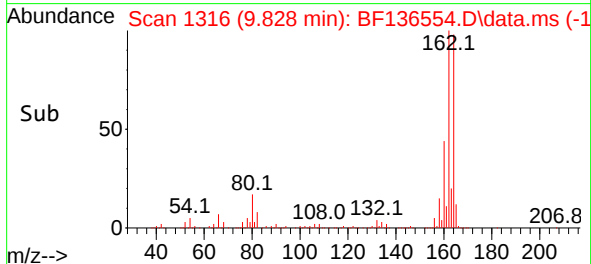
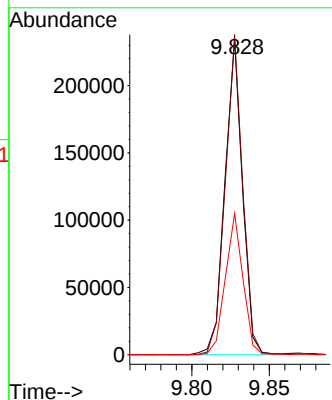
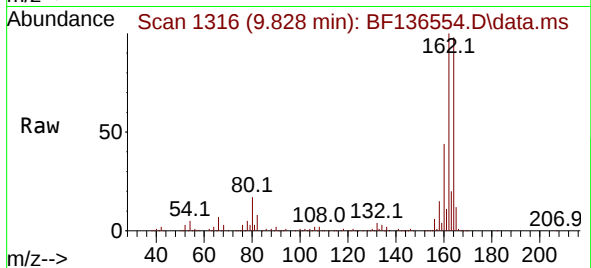
Tgt Ion:164 Resp: 184981

Ion Ratio Lower Upper

164 100

162 101.6 84.4 126.6

160 44.8 37.6 56.4



#42

2,4,6-Tribromophenol

Concen: 8.820 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.018 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

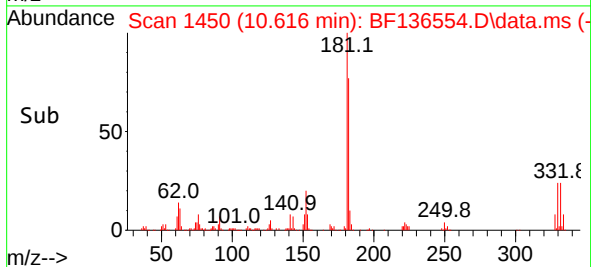
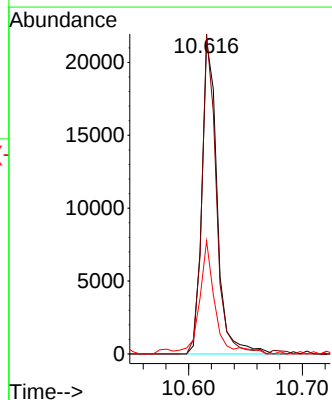
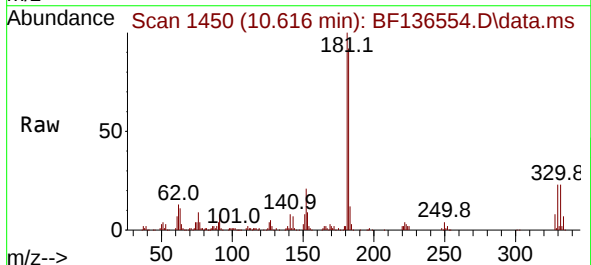
Tgt Ion:330 Resp: 20117

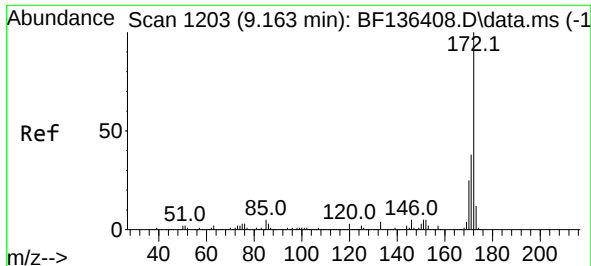
Ion Ratio Lower Upper

330 100

332 95.9 76.4 114.6

141 36.5 23.4 35.2#

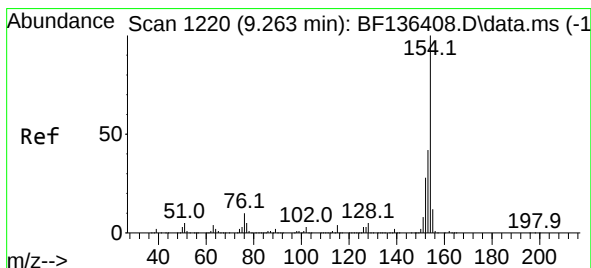
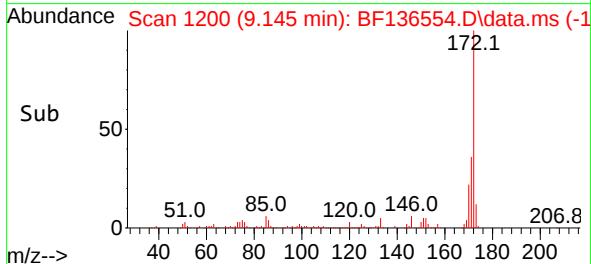
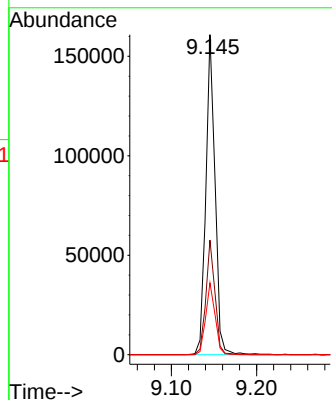
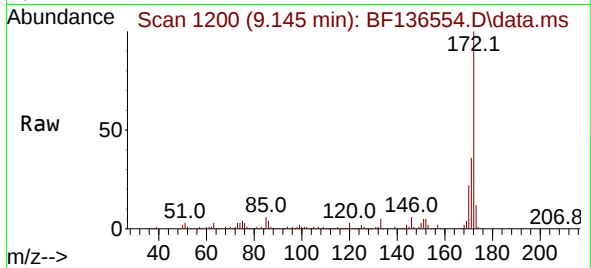




#45
2-Fluorobiphenyl
Concen: 8.912 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

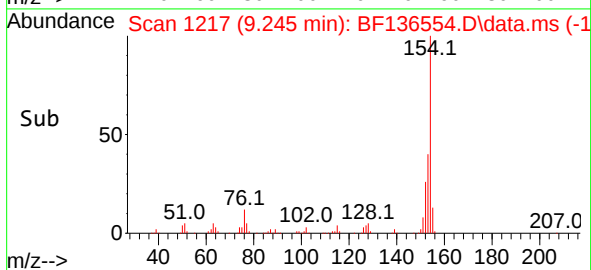
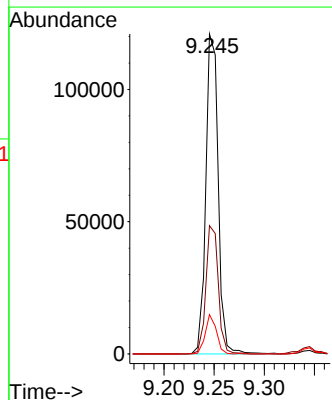
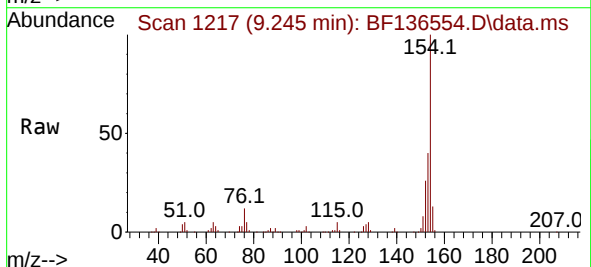
Instrument :
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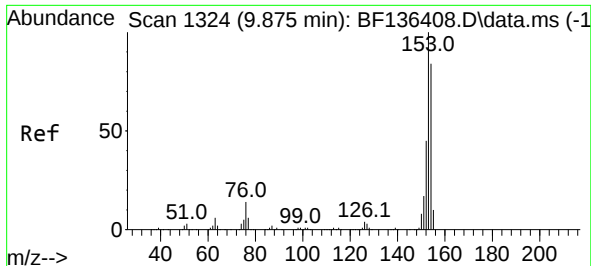
Tgt Ion:172 Resp: 120817
Ion Ratio Lower Upper
172 100
171 35.8 30.5 45.7
170 22.4 19.9 29.9



#46
1,1'-Biphenyl
Concen: 6.639 ng
RT: 9.245 min Scan# 1217
Delta R.T. -0.018 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

Tgt Ion:154 Resp: 104503
Ion Ratio Lower Upper
154 100
153 40.1 22.5 62.5
76 12.3 0.0 29.9

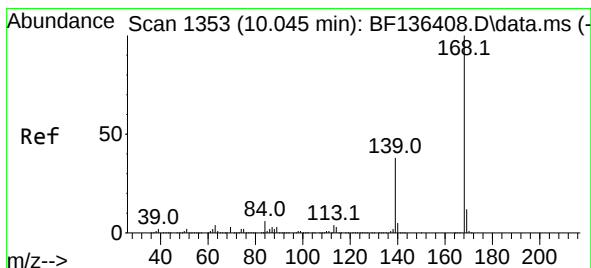
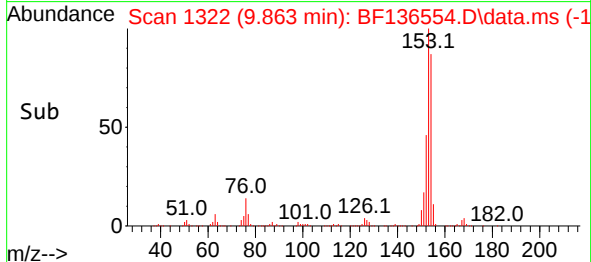
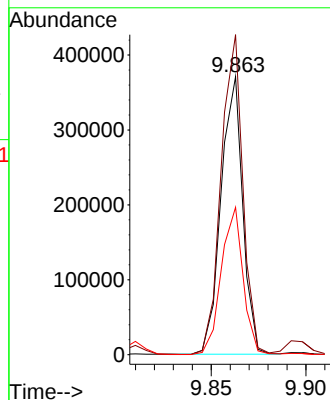
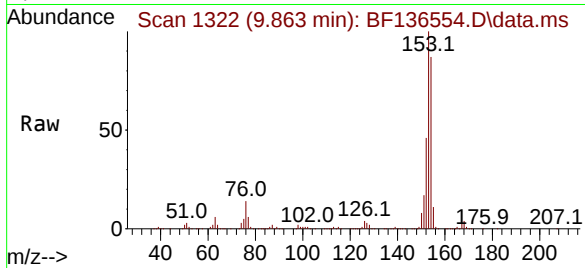




#52
Acenaphthene
Concen: 26.439 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

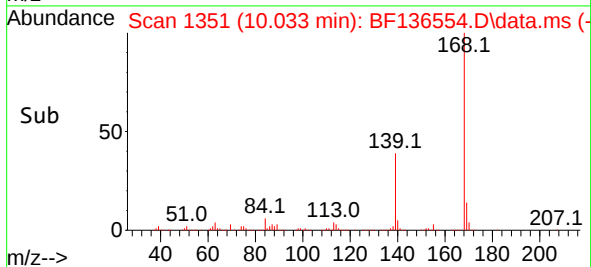
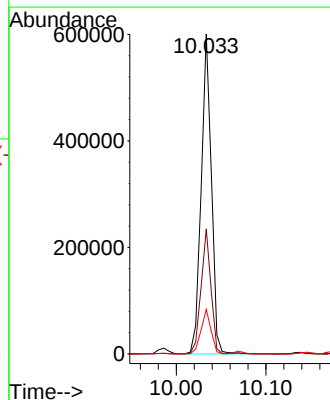
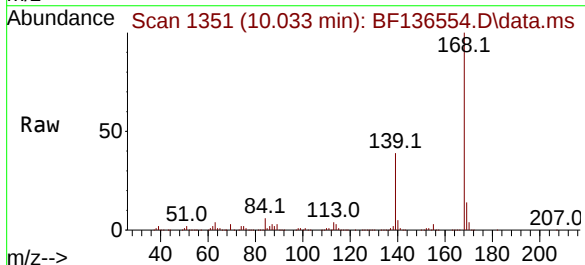
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

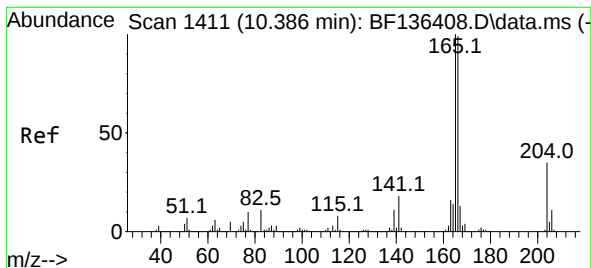
Tgt Ion:154 Resp: 295675
Ion Ratio Lower Upper
154 100
153 115.0 95.3 142.9
152 53.0 43.2 64.8



#55
Dibenzofuran
Concen: 28.920 ng
RT: 10.033 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

Tgt Ion:168 Resp: 472474
Ion Ratio Lower Upper
168 100
139 39.1 30.4 45.6
169 13.9 9.9 14.9





#58

Fluorene

Concen: 32.068 ng

RT: 10.380 min Scan# 1411

Delta R.T. -0.006 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

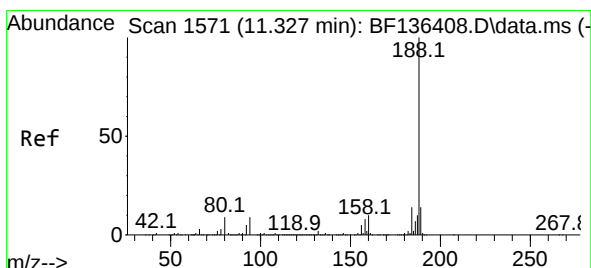
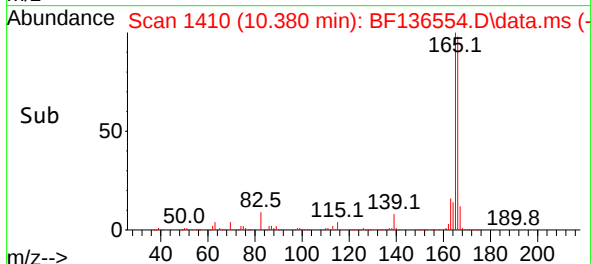
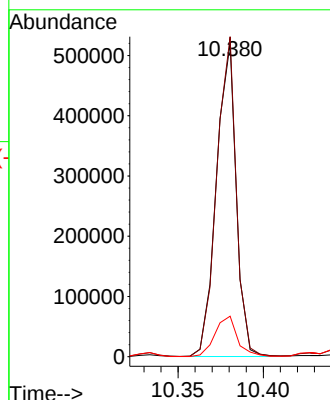
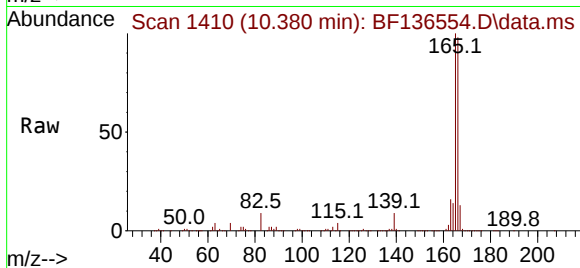
Tgt Ion:166 Resp: 420547

Ion Ratio Lower Upper

166 100

165 102.1 80.5 120.7

167 12.9 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: BF136554.D

Acq: 13 Dec 2023 23:57

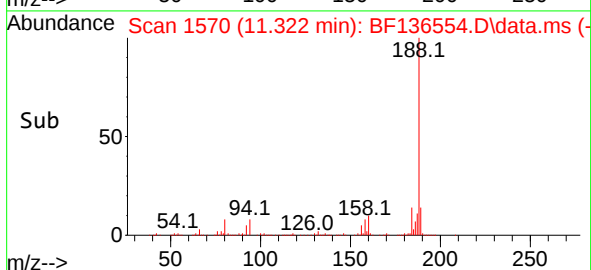
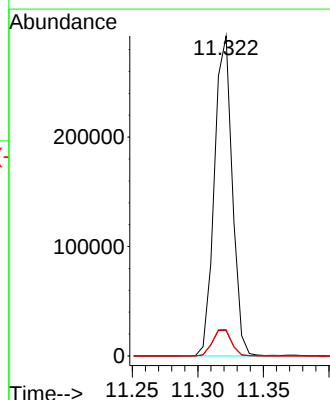
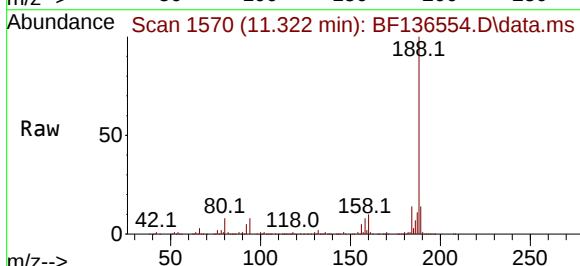
Tgt Ion:188 Resp: 277492

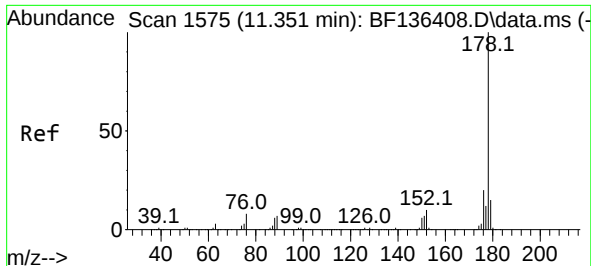
Ion Ratio Lower Upper

188 100

94 7.9 7.2 10.8

80 8.2 7.2 10.8

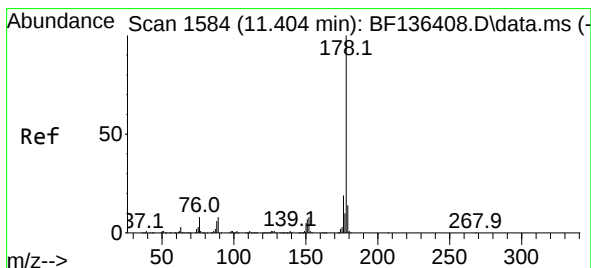
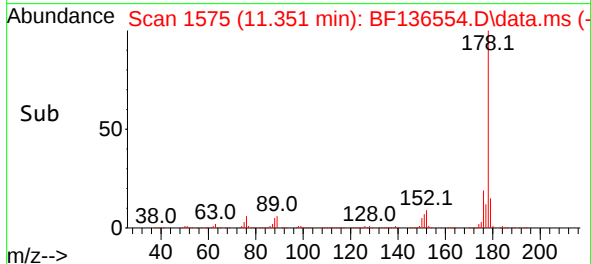
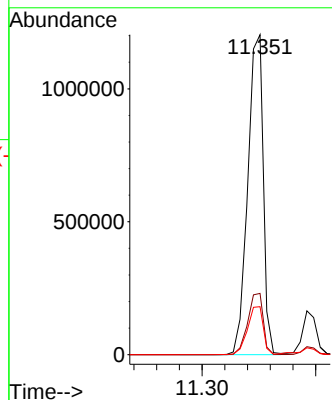
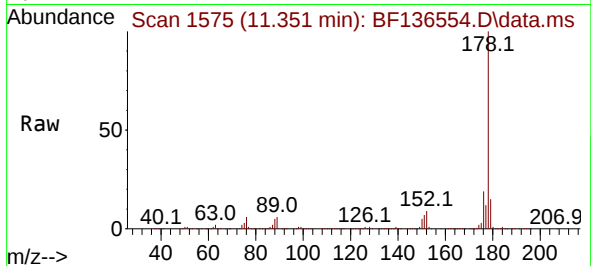




#71
Phenanthrene
Concen: 74.804 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

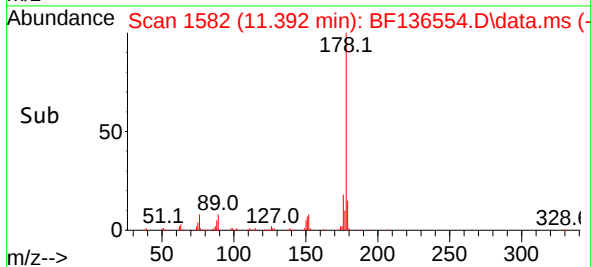
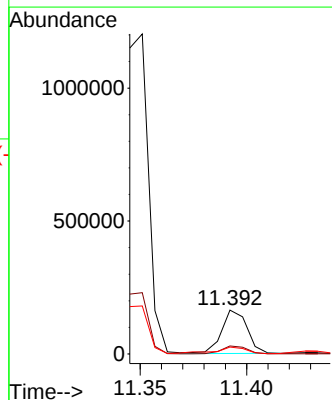
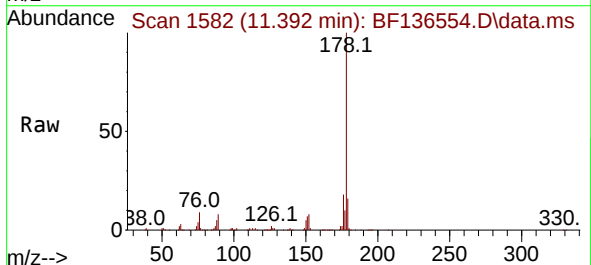
Instrument :
BNA_F
ClientSampleId :
VNJ-216DL

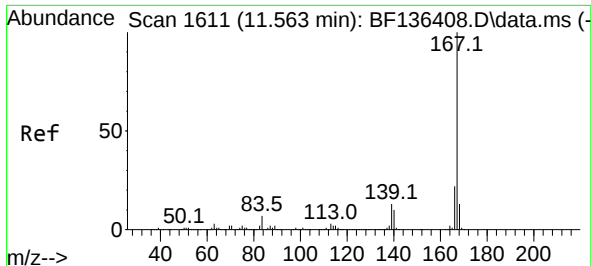
Tgt Ion:178 Resp: 1140930
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.0 11.8 17.6



#72
Anthracene
Concen: 8.832 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF136554.D
Acq: 13 Dec 2023 23:57

Tgt Ion:178 Resp: 135682
Ion Ratio Lower Upper
178 100
176 18.1 15.3 22.9
179 15.7 11.4 17.0

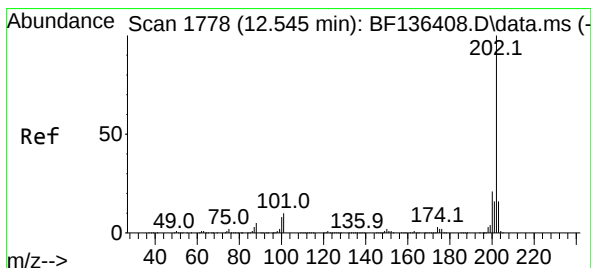
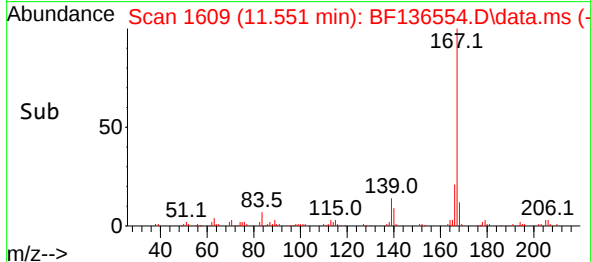
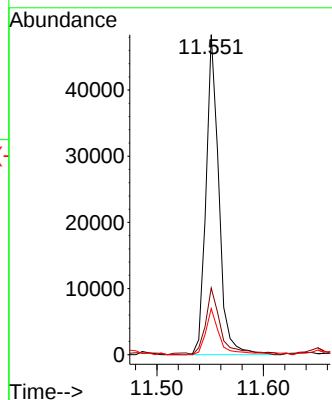
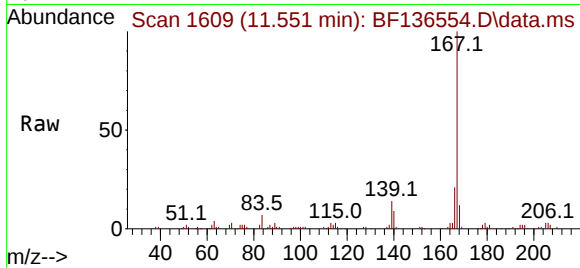




#73
 Carbazole
 Concen: 2.998 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.012 min
 Lab File: BF136554.D
 Acq: 13 Dec 2023 23:57

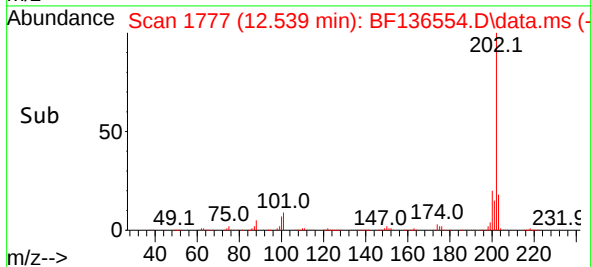
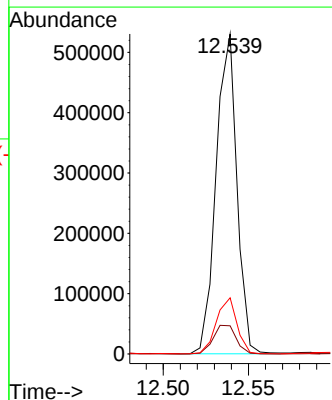
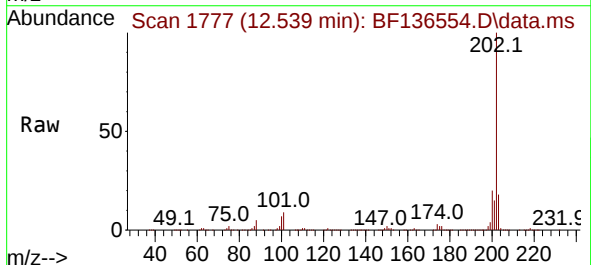
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

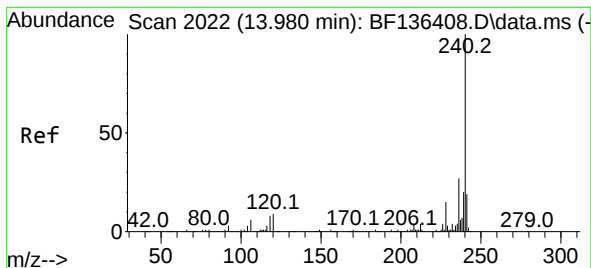
Tgt Ion:167 Resp: 40769
 Ion Ratio Lower Upper
 167 100
 166 20.9 18.0 27.0
 139 14.4 10.2 15.4



#75
 Fluoranthene
 Concen: 28.178 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF136554.D
 Acq: 13 Dec 2023 23:57

Tgt Ion:202 Resp: 450384
 Ion Ratio Lower Upper
 202 100
 101 8.8 0.0 29.9
 203 17.6 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.968 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

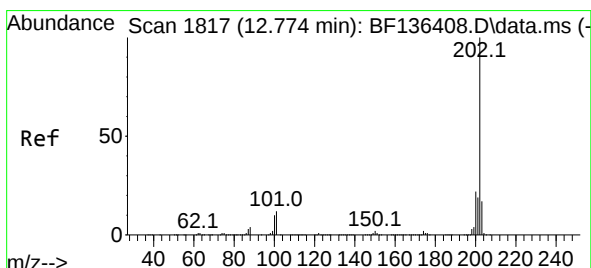
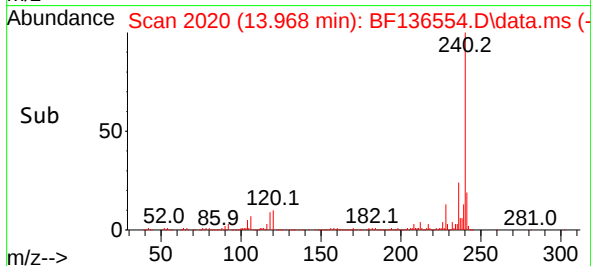
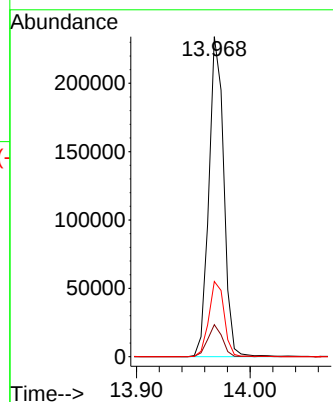
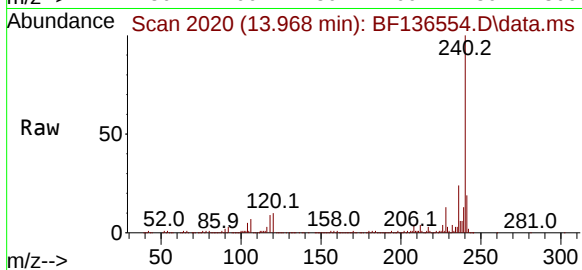
Tgt Ion:240 Resp: 212598

Ion Ratio Lower Upper

240 100

120 10.0 7.3 10.9

236 23.5 21.3 31.9



#78

Pyrene

Concen: 13.209 ng

RT: 12.769 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

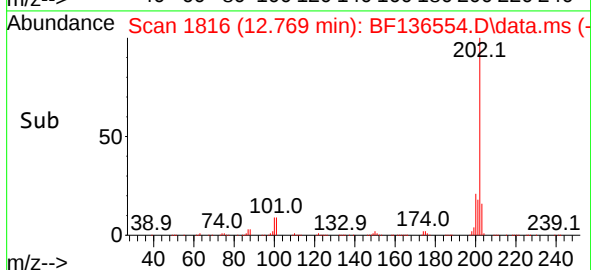
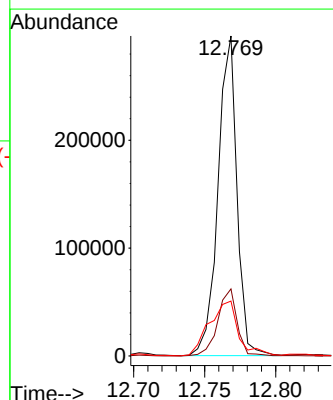
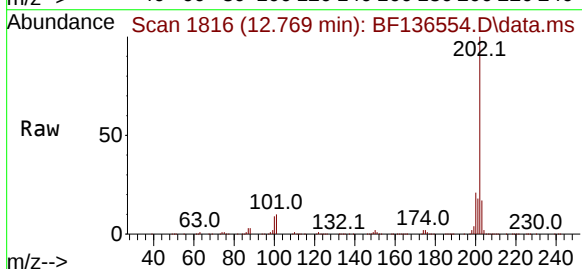
Tgt Ion:202 Resp: 275032

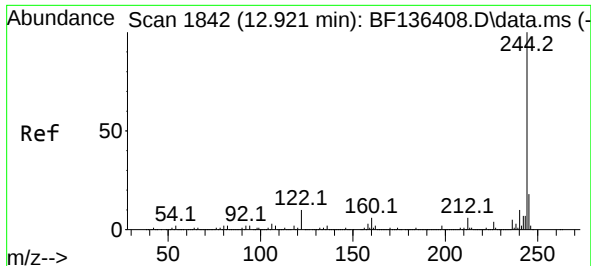
Ion Ratio Lower Upper

202 100

200 21.0 18.0 27.0

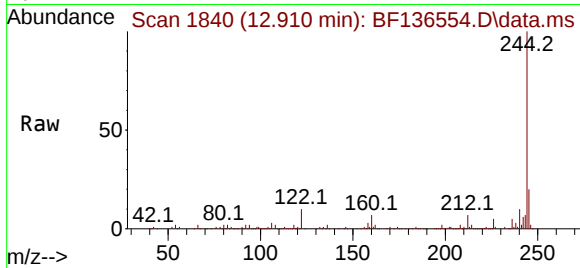
203 17.1 13.5 20.3



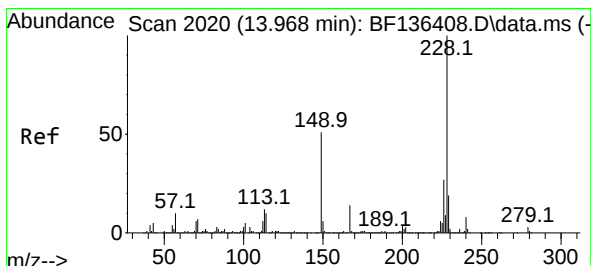
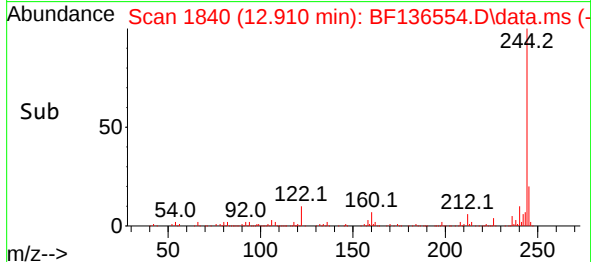
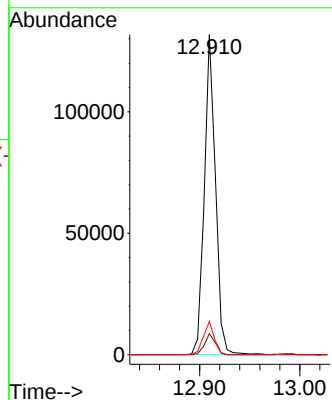


#79
 Terphenyl-d14
 Concen: 6.327 ng
 RT: 12.910 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF136554.D
 Acq: 13 Dec 2023 23:57

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216DL

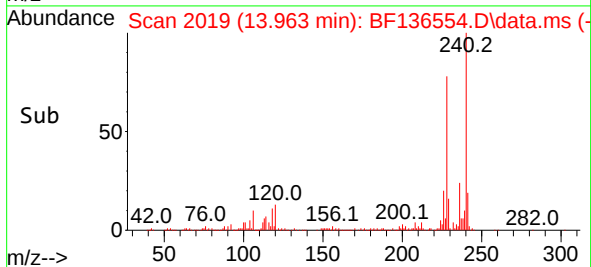
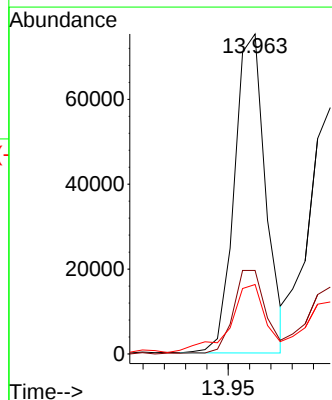
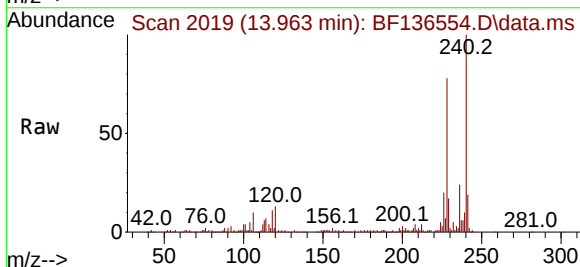


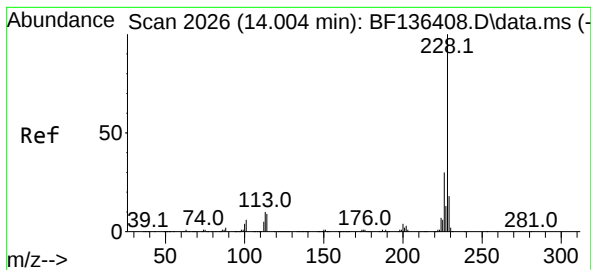
Tgt Ion:244 Resp: 102059
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.0 7.4
 122 10.4 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 5.181 ng
 RT: 13.963 min Scan# 2019
 Delta R.T. -0.006 min
 Lab File: BF136554.D
 Acq: 13 Dec 2023 23:57

Tgt Ion:228 Resp: 76725
 Ion Ratio Lower Upper
 228 100
 226 26.1 21.8 32.8
 229 21.7 15.0 22.4





#83

Chrysene

Concen: 4.068 ng

RT: 13.998 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Instrument :

BNA_F

ClientSampleId :

VNJ-216DL

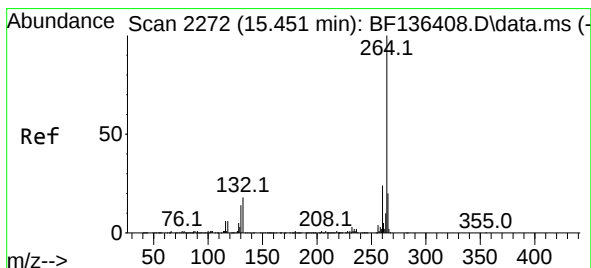
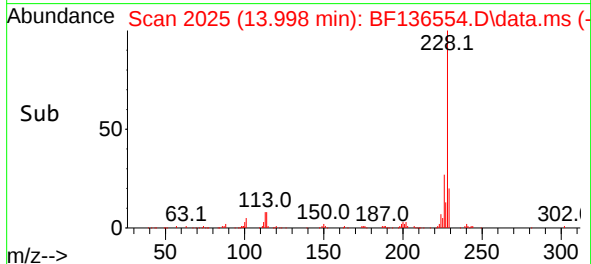
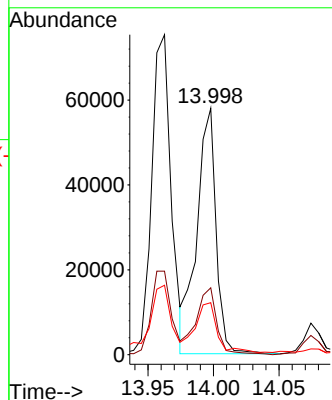
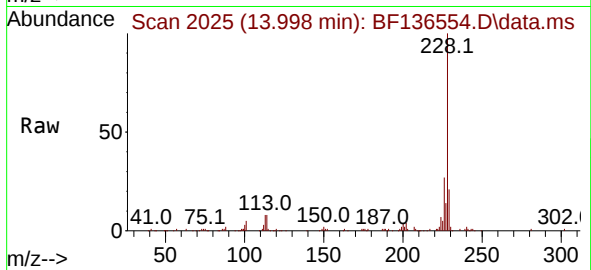
Tgt Ion:228 Resp: 59268

Ion Ratio Lower Upper

228 100

226 27.1 23.8 35.6

229 21.1 14.8 22.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BF136554.D

Acq: 13 Dec 2023 23:57

Tgt Ion:264 Resp: 227327

Ion Ratio Lower Upper

264 100

260 22.9 19.2 28.8

265 21.4 15.9 23.9

