

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032624\
 Data File : BM044774.D
 Acq On : 26 Mar 2024 18:26
 Operator : MA/JU
 Sample : P1865-01DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VNJ-235DL

Quant Time: Mar 27 01:10:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 14 02:28:24 2024
 Response via : Initial Calibration

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

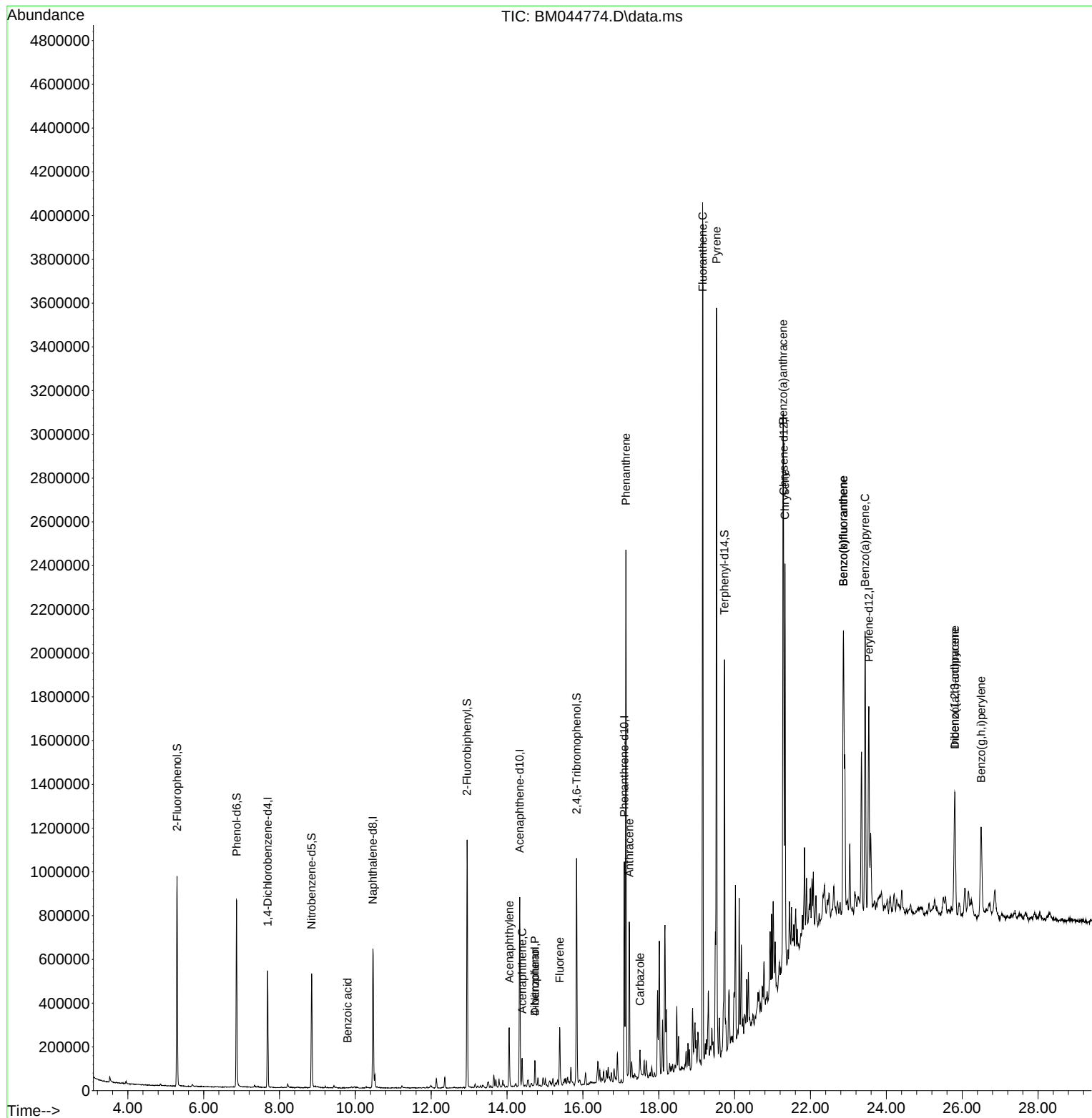
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.687	152	134841	20.000	ng	-0.02
21) Naphthalene-d8	10.463	136	526067	20.000	ng	-0.02
39) Acenaphthene-d10	14.333	164	299370	20.000	ng	-0.02
64) Phenanthrene-d10	17.092	188	596989	20.000	ng	-0.01
76) Chrysene-d12	21.292	240	561867	20.000	ng	-0.01
86) Perylene-d12	23.538	264	656340	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.298	112	401397	42.741	ng	0.00
7) Phenol-d6	6.869	99	492595	40.770	ng	-0.01
23) Nitrobenzene-d5	8.845	82	301703	27.629	ng	-0.02
42) 2,4,6-Tribromophenol	15.833	330	157937	47.832	ng	-0.01
45) 2-Fluorobiphenyl	12.945	172	568906	26.172	ng	-0.02
79) Terphenyl-d14	19.733	244	830016	25.842	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.792	122	304	3.662	ng	# 63
49) Acenaphthylene	14.057	152	200189	7.098	ng	98
52) Acenaphthene	14.398	154	45231	2.653	ng	98
55) Dibenzofuran	14.733	168	58686	2.169	ng	# 96
56) 4-Nitrophenol	14.733	139	23222	5.178	ng	# 8
58) Fluorene	15.386	166	121638	5.772	ng	99
71) Phenanthrene	17.133	178	1393325	42.234	ng	100
72) Anthracene	17.221	178	432489	13.071	ng	99
73) Carbazole	17.504	167	72285	2.320	ng	98
75) Fluoranthene	19.156	202	2308842	62.606	ng	98
78) Pyrene	19.521	202	2047048	49.709	ng	100
81) Benzo(a)anthracene	21.274	228	1124656	28.767	ng	97
83) Chrysene	21.327	228	967985	25.911	ng	97
87) Indeno(1,2,3-cd)pyrene	25.803	276	533185	11.237	ng	94
88) Benzo(b)fluoranthene	22.868	252	1182185	30.649	ng	99
89) Benzo(k)fluoranthene	22.868	252	1182185	29.814	ng	99
90) Benzo(a)pyrene	23.438	252	882424	23.456	ng	98
91) Dibenzo(a,h)anthracene	25.809	278	143894	3.597	ng	# 89
92) Benzo(g,h,i)perylene	26.497	276	487065	12.370	ng	98

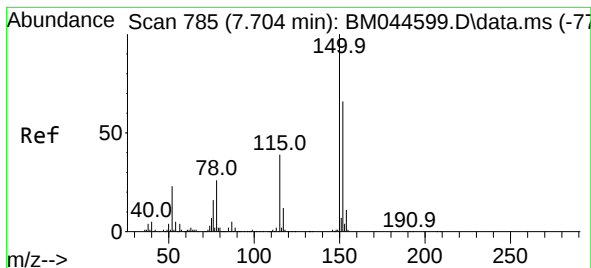
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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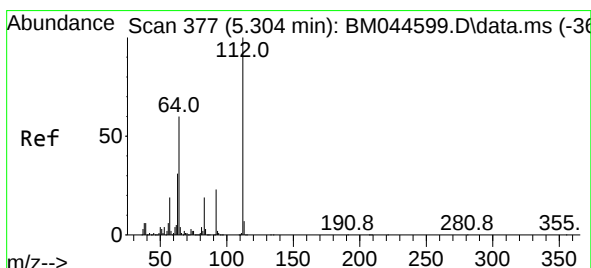
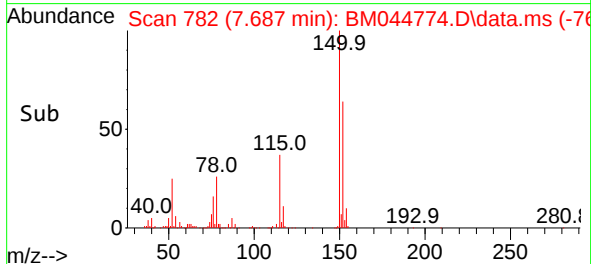
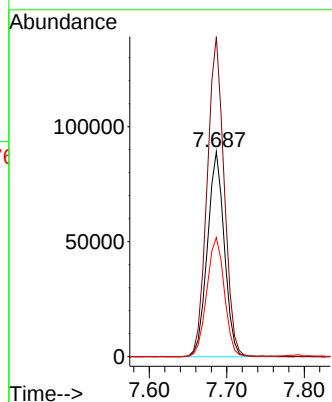
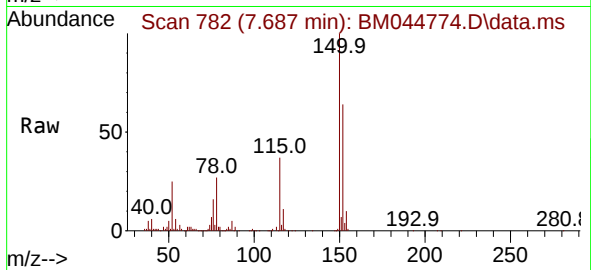




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.687 min Scan# 71
 Delta R.T. -0.017 min
 Lab File: BM044774.D
 Acq: 26 Mar 2024 18:26

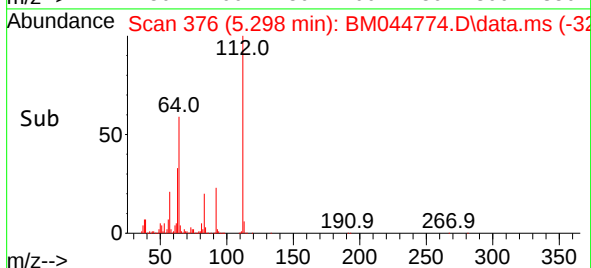
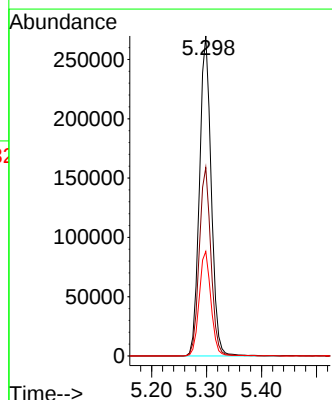
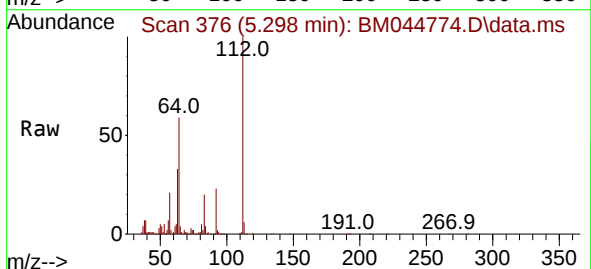
Instrument :
 BNA_M
 ClientSampleId :
 VNJ-235DL

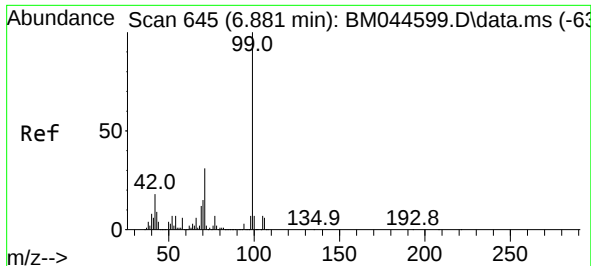
Tgt Ion:152 Resp: 134841
 Ion Ratio Lower Upper
 152 100
 150 156.1 121.9 182.9
 115 58.2 47.1 70.7



#5
 2-Fluorophenol
 Concen: 42.741 ng
 RT: 5.298 min Scan# 376
 Delta R.T. -0.006 min
 Lab File: BM044774.D
 Acq: 26 Mar 2024 18:26

Tgt Ion:112 Resp: 401397
 Ion Ratio Lower Upper
 112 100
 64 58.9 47.9 71.9
 63 32.6 25.0 37.4

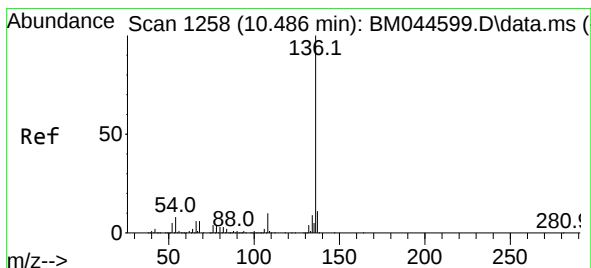
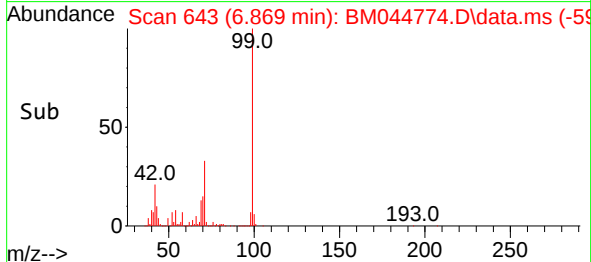
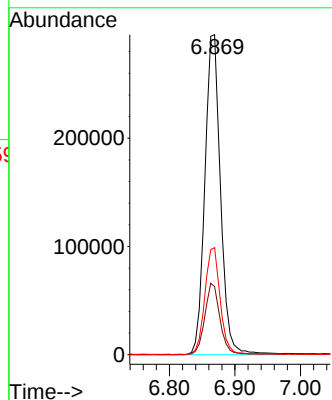
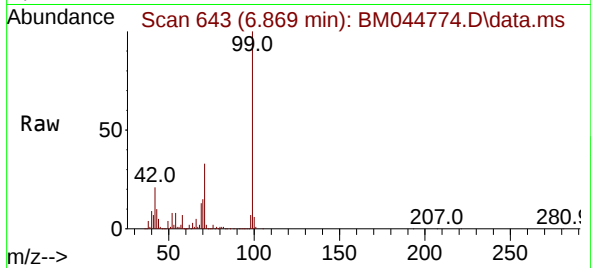




#7
Phenol-d6
Concen: 40.770 ng
RT: 6.869 min Scan# 64
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

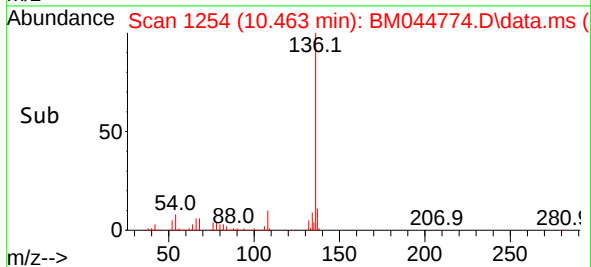
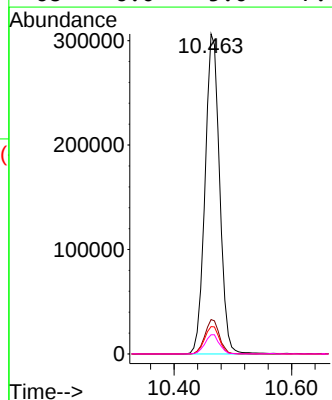
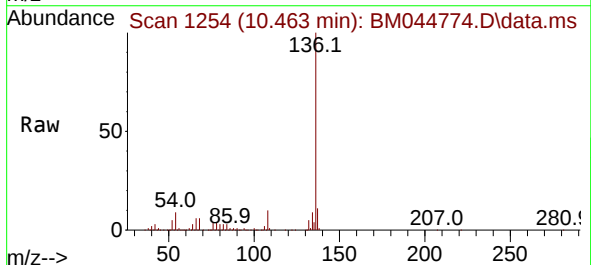
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

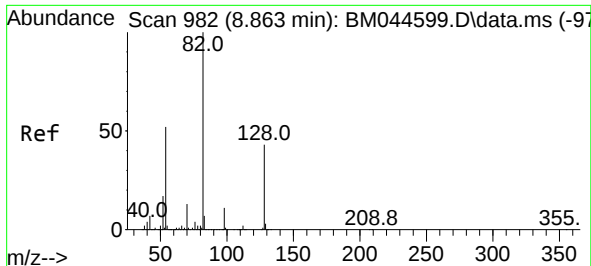
Tgt Ion: 99 Resp: 492595
Ion Ratio Lower Upper
99 100
42 21.3 14.3 21.5
71 33.4 24.5 36.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.463 min Scan# 1254
Delta R.T. -0.024 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion: 136 Resp: 526067
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 8.5 6.6 10.0
68 6.0 5.0 7.4

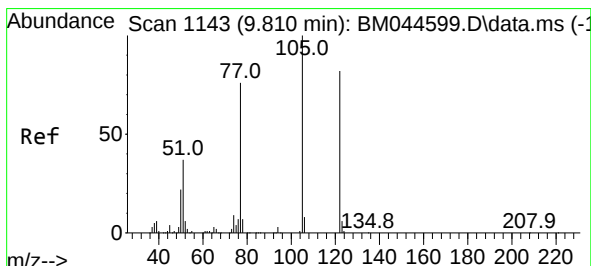
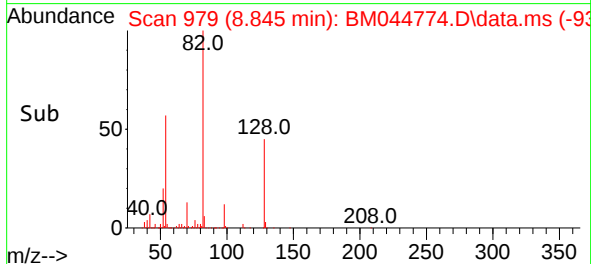
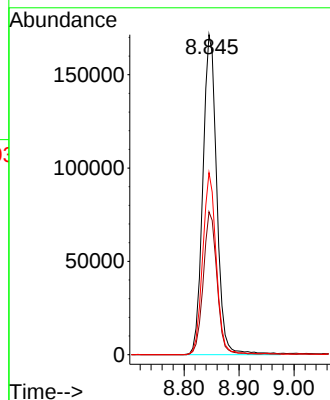
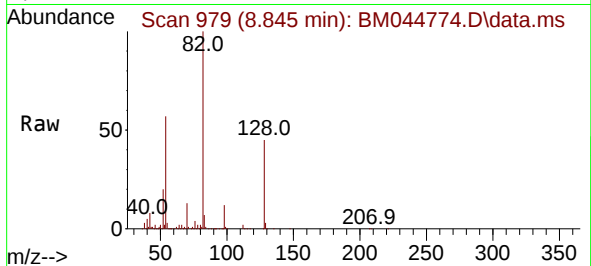




#23
Nitrobenzene-d5
Concen: 27.629 ng
RT: 8.845 min Scan# 91
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

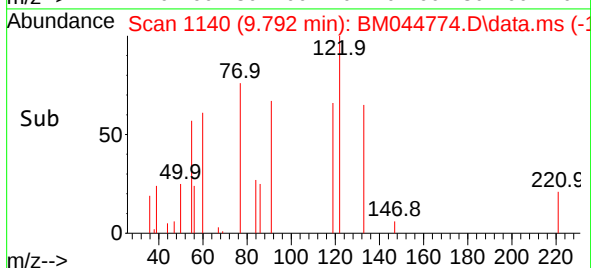
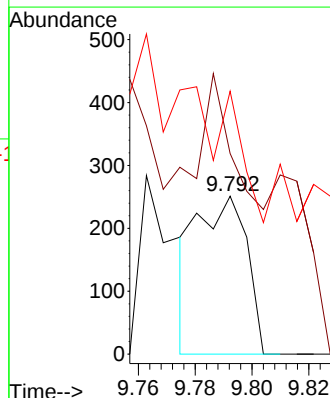
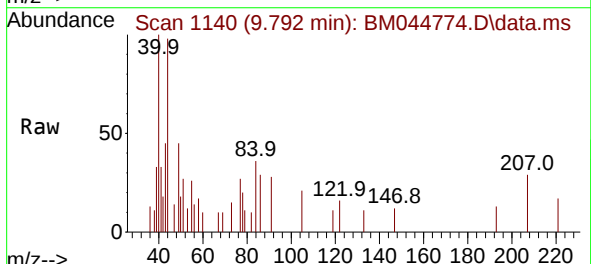
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

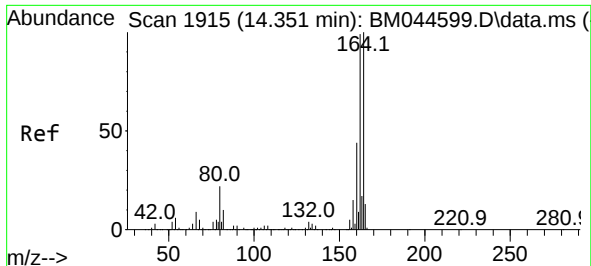
Tgt Ion: 82 Resp: 301703
Ion Ratio Lower Upper
82 100
128 44.7 34.2 51.4
54 56.9 41.3 61.9



#32
Benzoic acid
Concen: 3.662 ng
RT: 9.792 min Scan# 1140
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion: 122 Resp: 304
Ion Ratio Lower Upper
122 100
105 127.1 100.0 140.0
77 166.5 72.5 112.5#

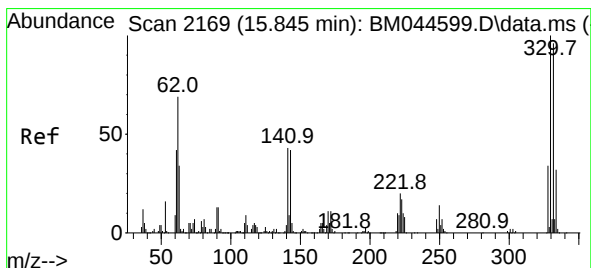
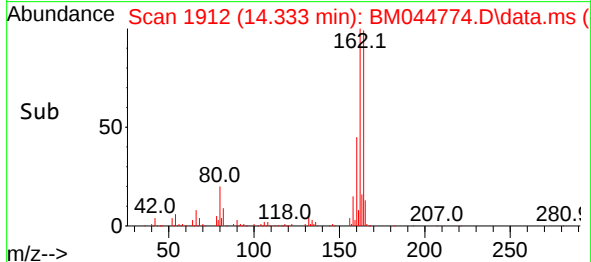
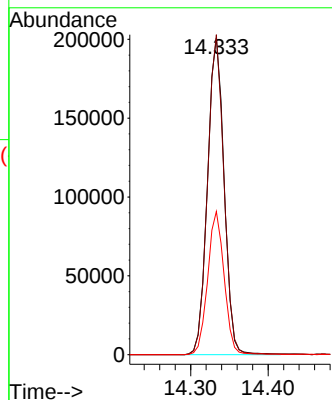
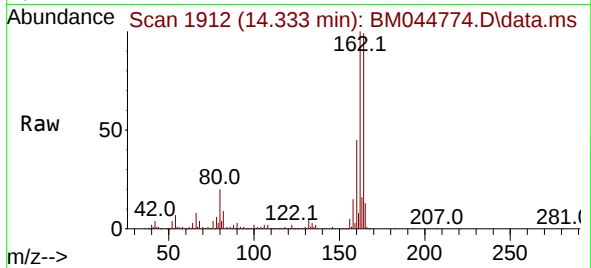




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.333 min Scan# 1915
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

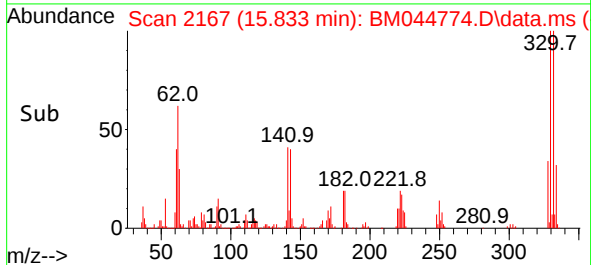
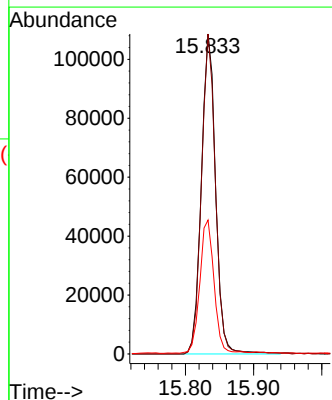
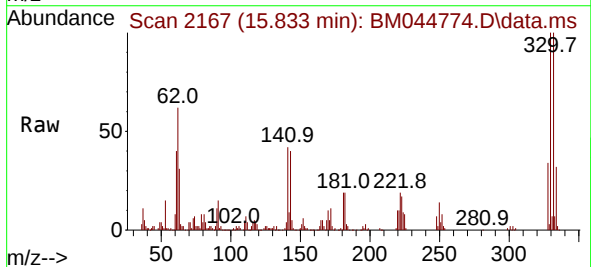
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

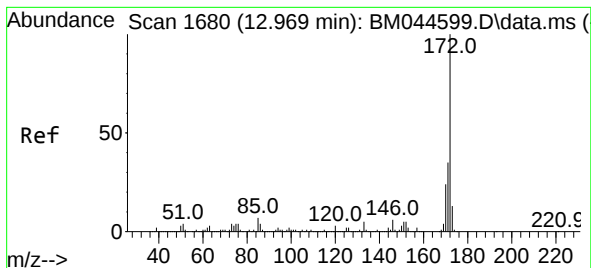
Tgt Ion:164 Resp: 299370
Ion Ratio Lower Upper
164 100
162 101.0 79.3 118.9
160 45.2 35.2 52.8



#42
2,4,6-Tribromophenol
Concen: 47.832 ng
RT: 15.833 min Scan# 2167
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:330 Resp: 157937
Ion Ratio Lower Upper
330 100
332 98.3 77.8 116.8
141 41.9 33.4 50.0





#45

2-Fluorobiphenyl

Concen: 26.172 ng

RT: 12.945 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

Instrument :

BNA_M

ClientSampleId :

VNJ-235DL

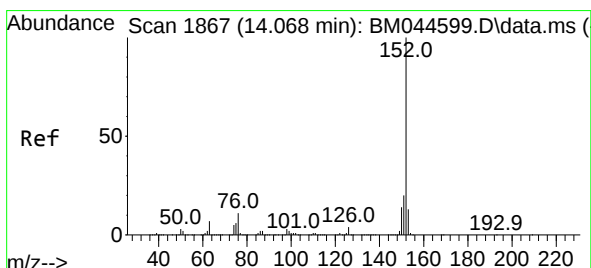
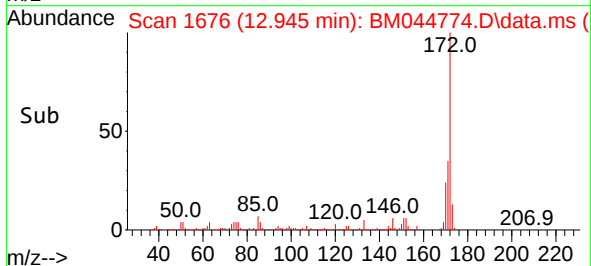
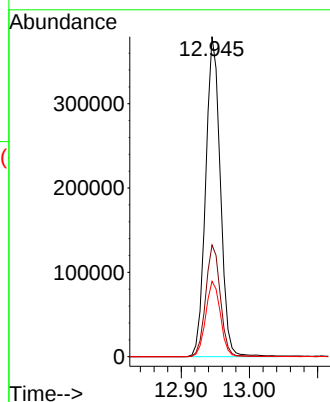
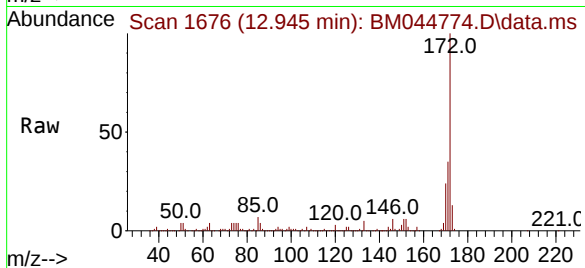
Tgt Ion:172 Resp: 568906

Ion Ratio Lower Upper

172 100

171 34.9 28.2 42.2

170 23.6 19.0 28.6



#49

Acenaphthylene

Concen: 7.098 ng

RT: 14.057 min Scan# 1865

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

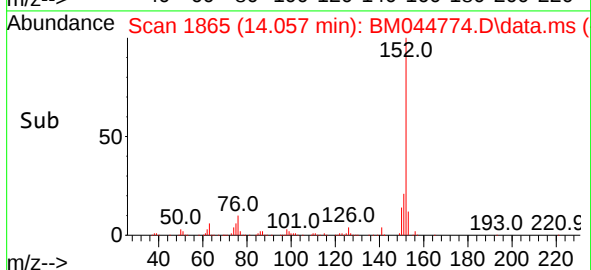
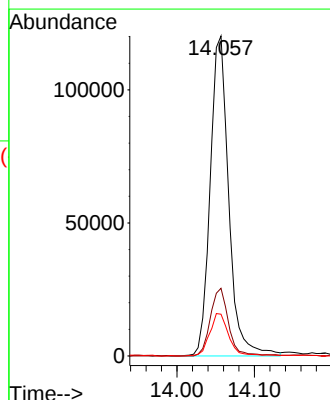
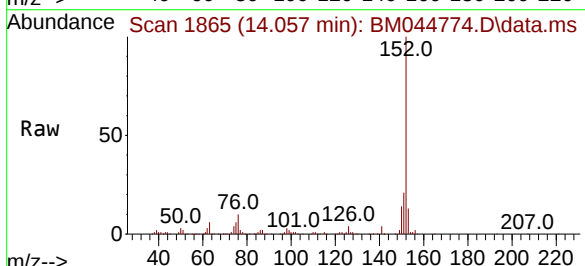
Tgt Ion:152 Resp: 200189

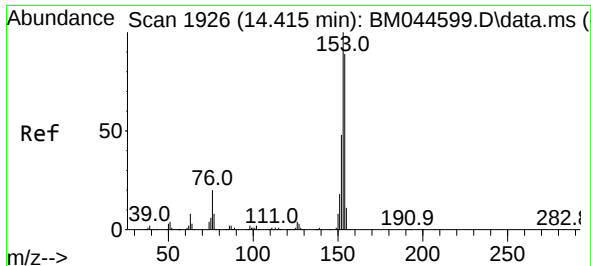
Ion Ratio Lower Upper

152 100

151 21.1 16.0 24.0

153 13.0 10.6 15.8

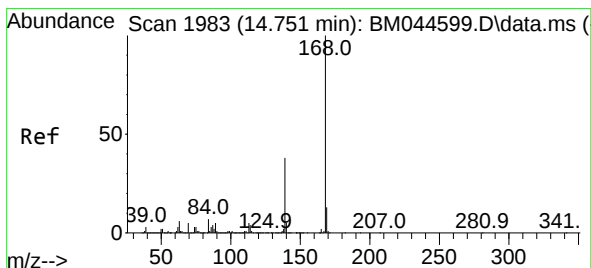
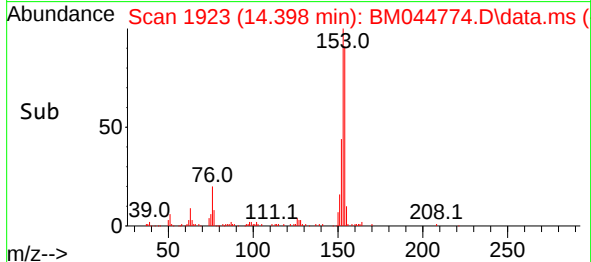
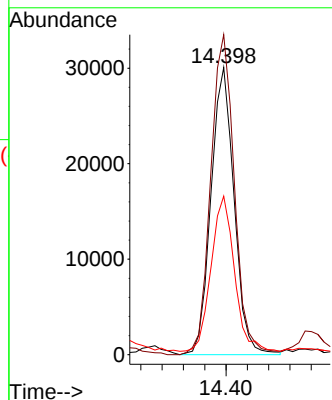
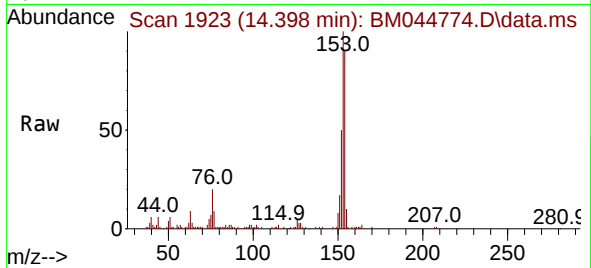




#52
Acenaphthene
Concen: 2.653 ng
RT: 14.398 min Scan# 1923
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

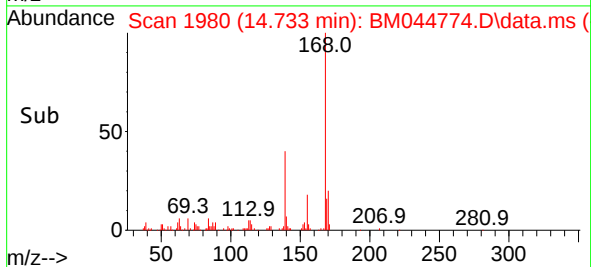
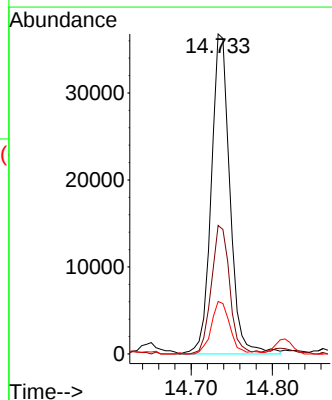
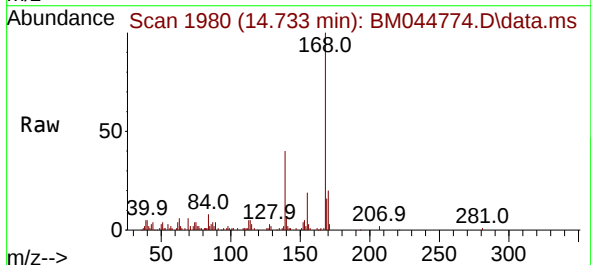
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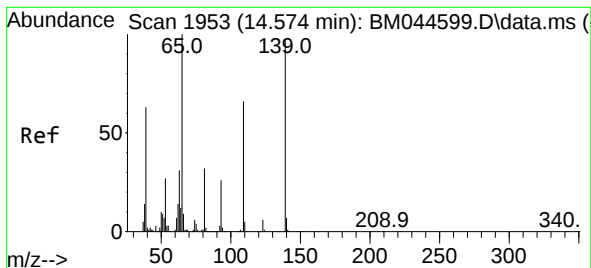
Tgt Ion:154 Resp: 45231
Ion Ratio Lower Upper
154 100
153 111.4 90.3 135.5
152 55.2 43.1 64.7



#55
Dibenzofuran
Concen: 2.169 ng
RT: 14.733 min Scan# 1980
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:168 Resp: 58686
Ion Ratio Lower Upper
168 100
139 40.1 30.6 46.0
169 16.4 10.6 16.0#

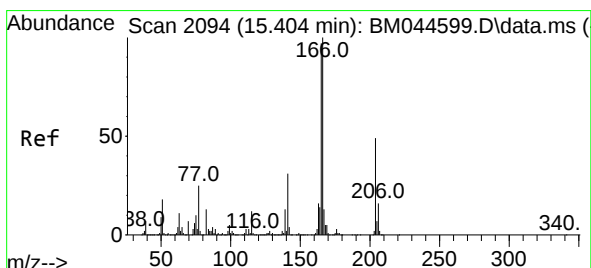
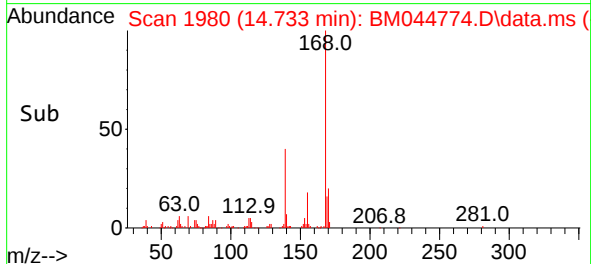
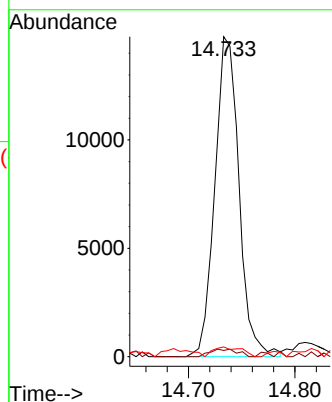
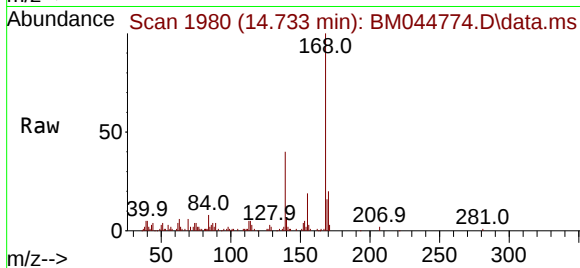




#56
4-Nitrophenol
Concen: 5.178 ng
RT: 14.733 min Scan# 1953
Delta R.T. 0.159 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

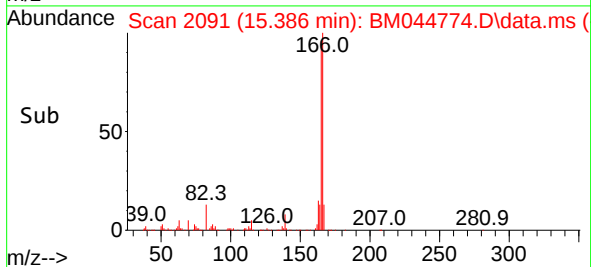
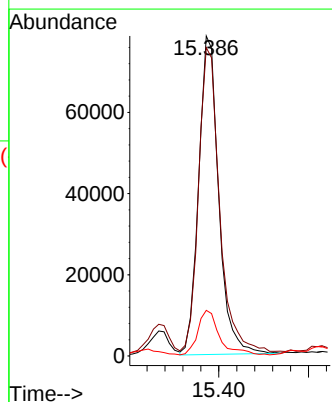
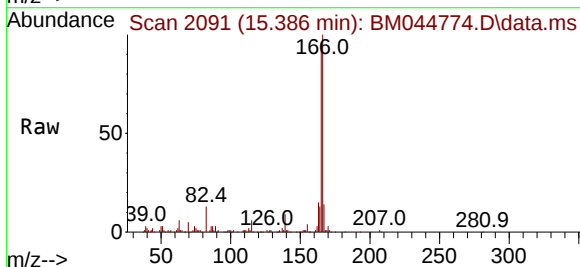
Instrument :
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ClientSampleId :
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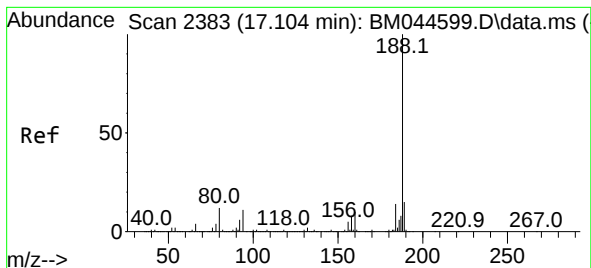
Tgt Ion:139 Resp: 23222
Ion Ratio Lower Upper
139 100
109 1.9 48.0 88.0#
65 3.1 83.5 123.5#



#58
Fluorene
Concen: 5.772 ng
RT: 15.386 min Scan# 2091
Delta R.T. -0.018 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:166 Resp: 121638
Ion Ratio Lower Upper
166 100
165 96.4 77.7 116.5
167 14.3 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.092 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

Instrument :

BNA_M

ClientSampleId :

VNJ-235DL

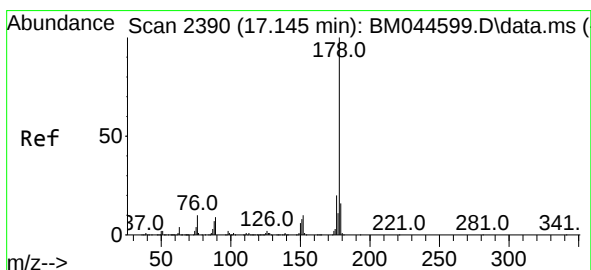
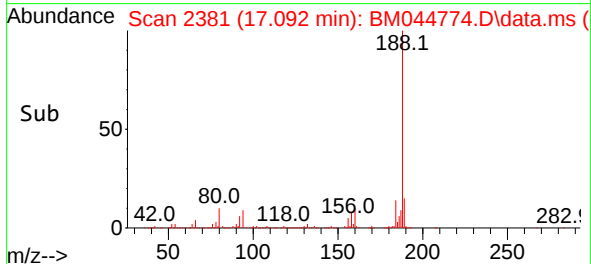
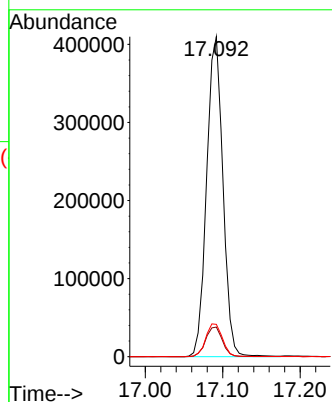
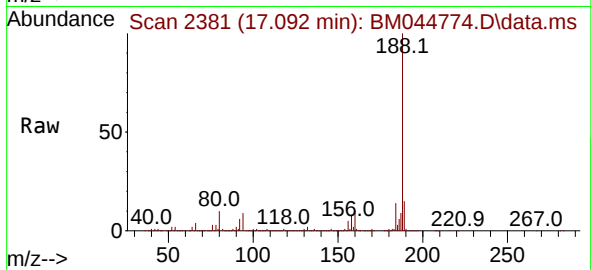
Tgt Ion:188 Resp: 596989

Ion Ratio Lower Upper

188 100

94 9.3 8.4 12.6

80 10.1 9.4 14.0



#71

Phenanthrene

Concen: 42.234 ng

RT: 17.133 min Scan# 2388

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

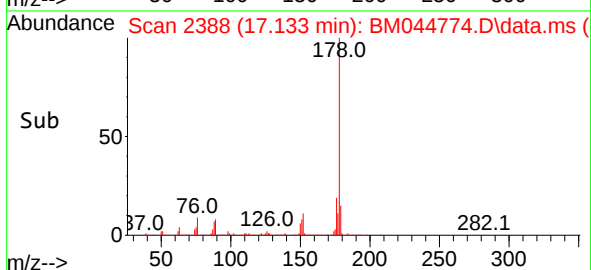
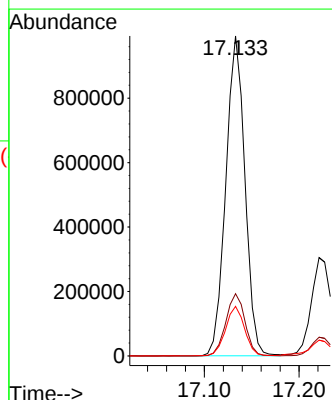
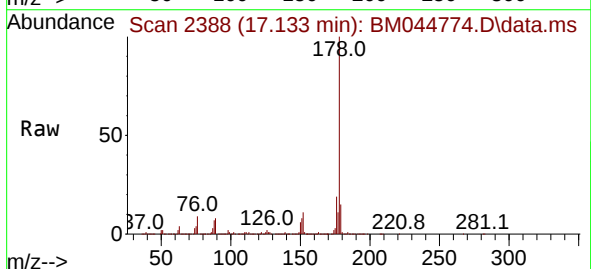
Tgt Ion:178 Resp: 1393325

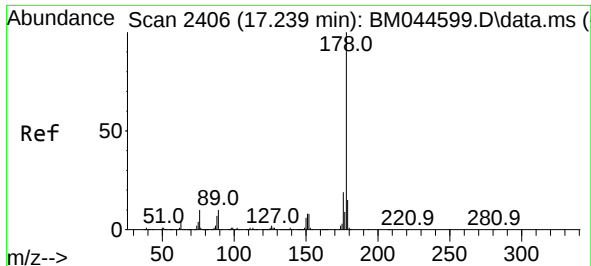
Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

179 15.5 12.4 18.6

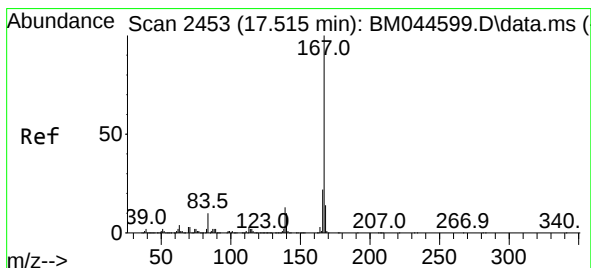
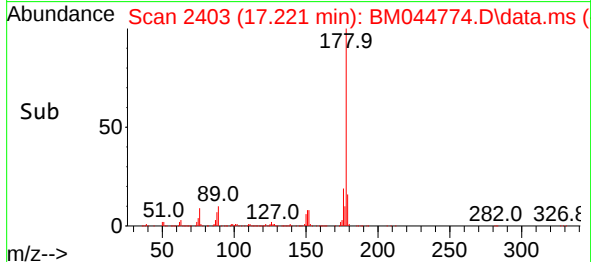
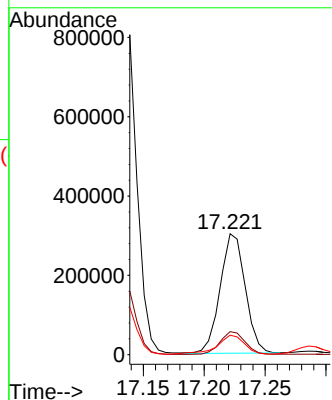
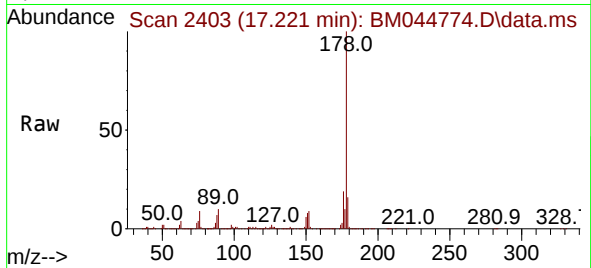




#72
 Anthracene
 Concen: 13.071 ng
 RT: 17.221 min Scan# 2403
 Delta R.T. -0.018 min
 Lab File: BM044774.D
 Acq: 26 Mar 2024 18:26

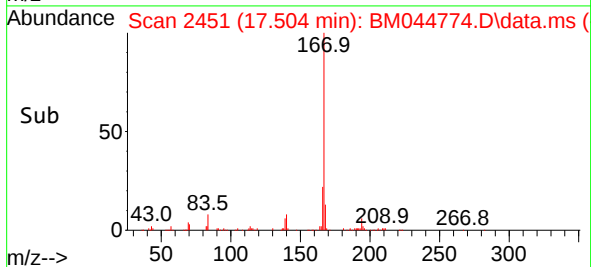
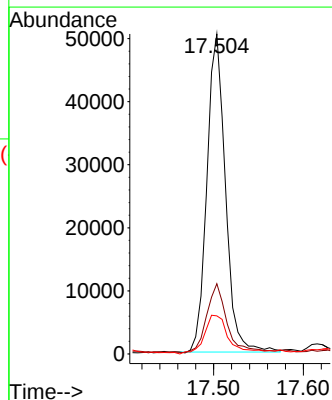
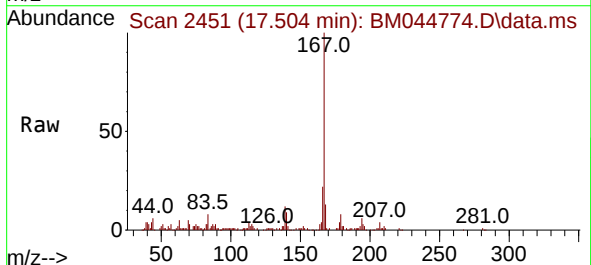
Instrument :
 BNA_M
 ClientSampleId :
 VNJ-235DL

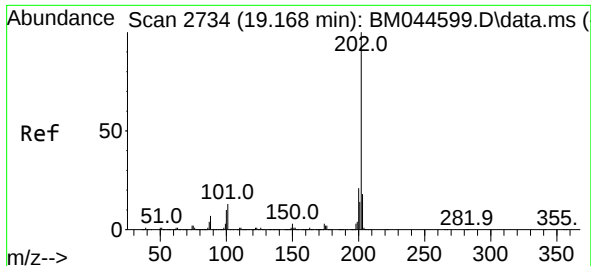
Tgt Ion:178 Resp: 432489
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.3 22.9
 179 16.1 12.2 18.4



#73
 Carbazole
 Concen: 2.320 ng
 RT: 17.504 min Scan# 2451
 Delta R.T. -0.012 min
 Lab File: BM044774.D
 Acq: 26 Mar 2024 18:26

Tgt Ion:167 Resp: 72285
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.2 25.8
 139 11.9 10.6 15.8

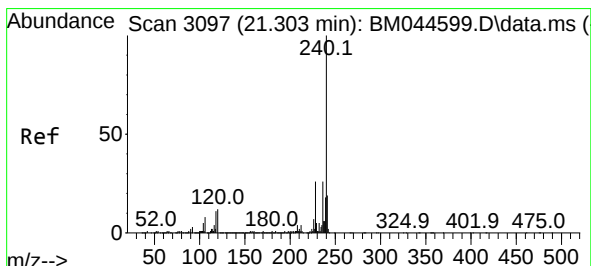
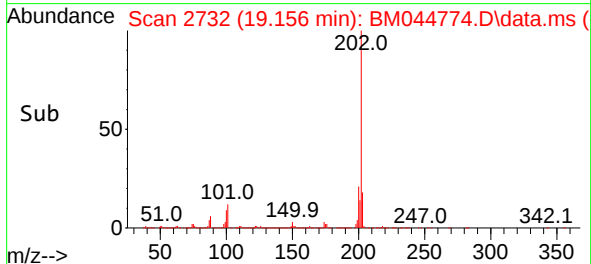
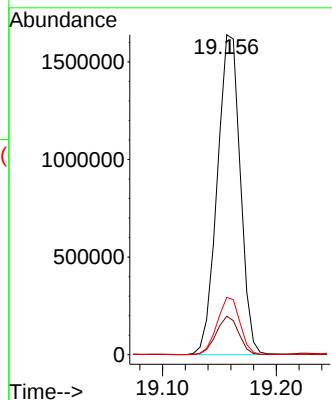
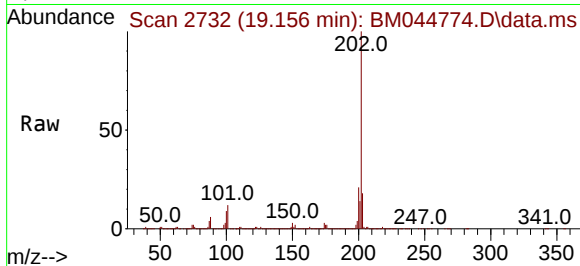




#75
Fluoranthene
Concen: 62.606 ng
RT: 19.156 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

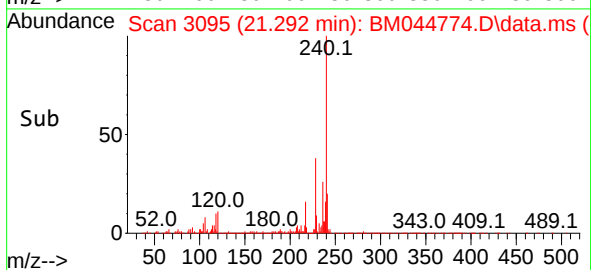
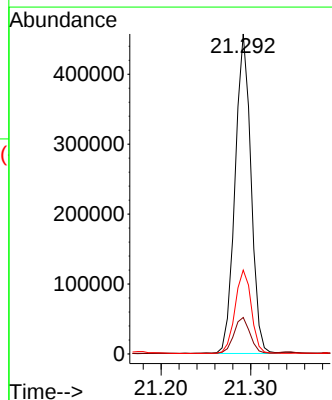
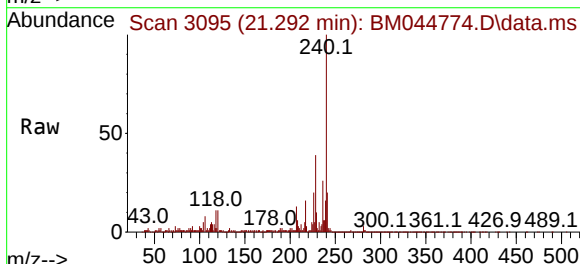
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

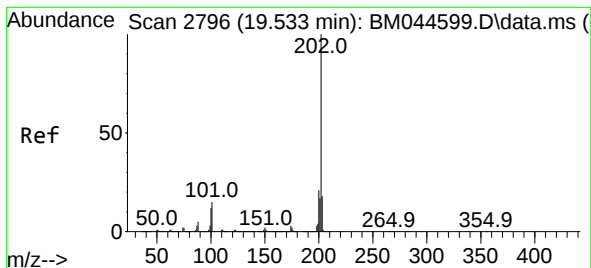
Tgt Ion:202 Resp: 2308842
Ion Ratio Lower Upper
202 100
101 12.0 0.0 33.3
203 17.9 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.292 min Scan# 3095
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:240 Resp: 561867
Ion Ratio Lower Upper
240 100
120 11.4 9.7 14.5
236 26.2 21.0 31.4





#78

Pyrene

Concen: 49.709 ng

RT: 19.521 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

Instrument :

BNA_M

ClientSampleId :

VNJ-235DL

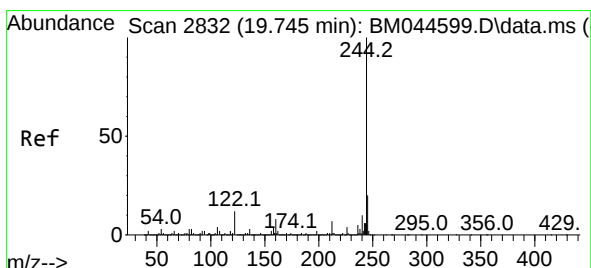
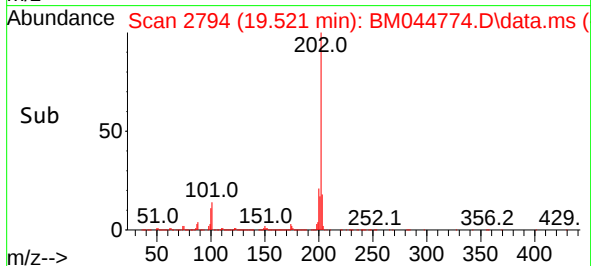
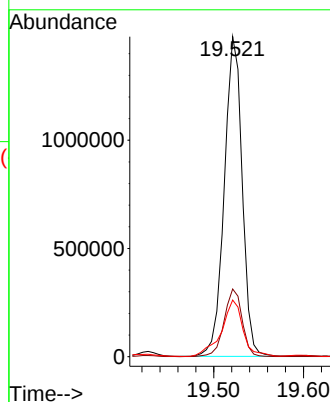
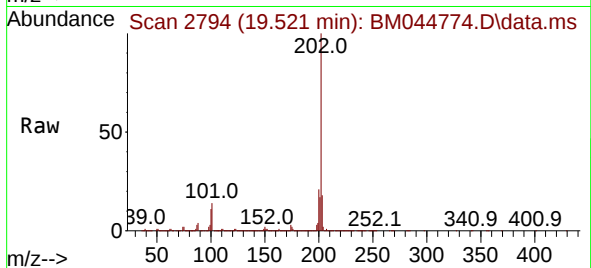
Tgt Ion:202 Resp: 2047048

Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.1 21.1



#79

Terphenyl-d14

Concen: 25.842 ng

RT: 19.733 min Scan# 2830

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

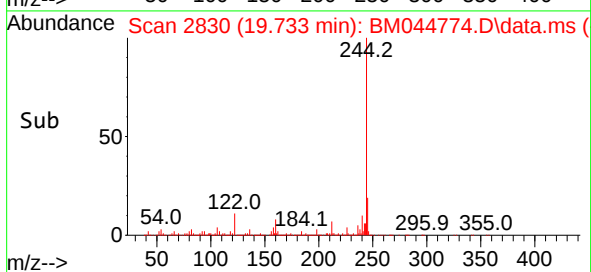
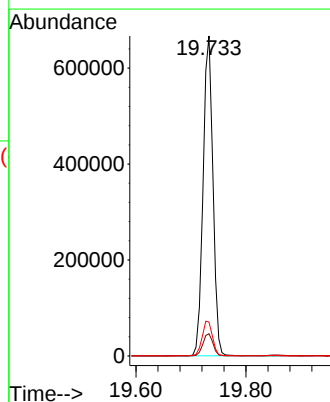
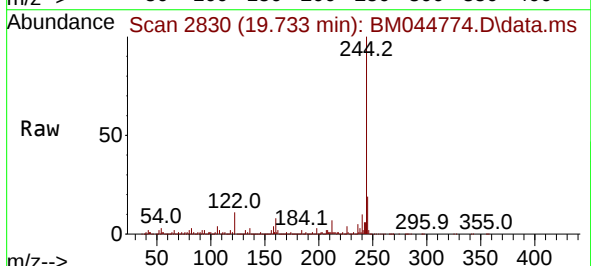
Tgt Ion:244 Resp: 830016

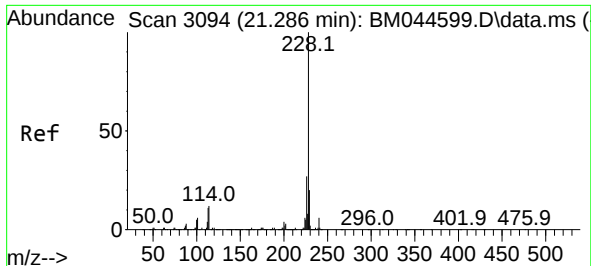
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 10.6 9.7 14.5

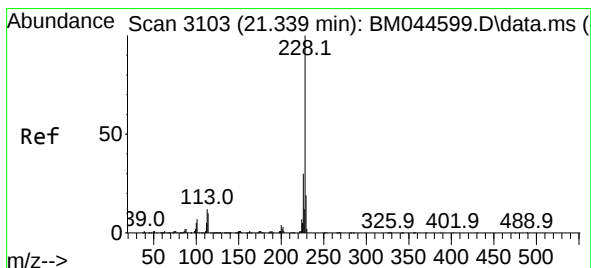
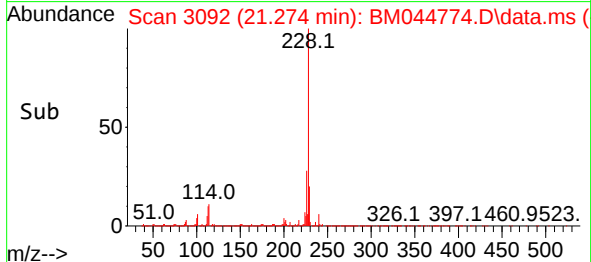
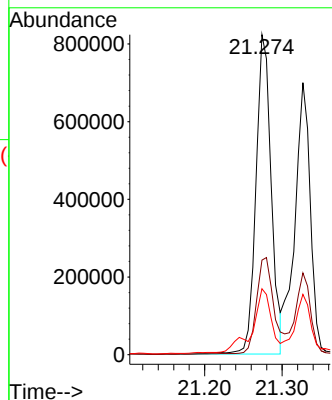
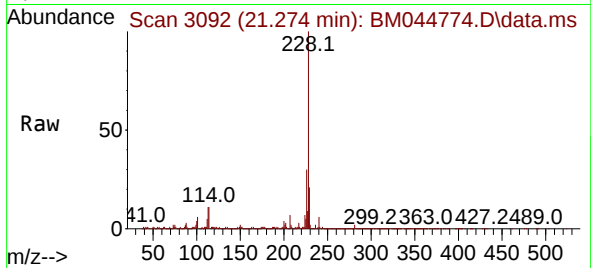




#81
Benzo(a)anthracene
Concen: 28.767 ng
RT: 21.274 min Scan# 3092
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

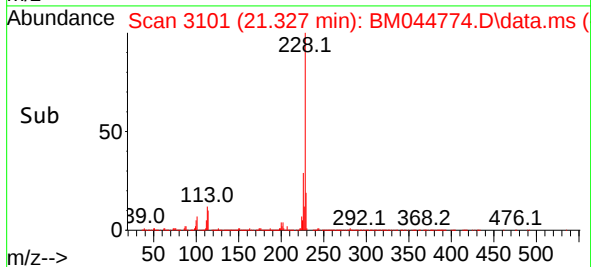
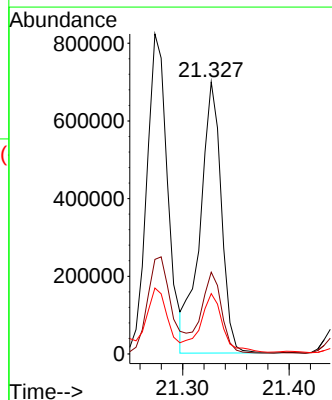
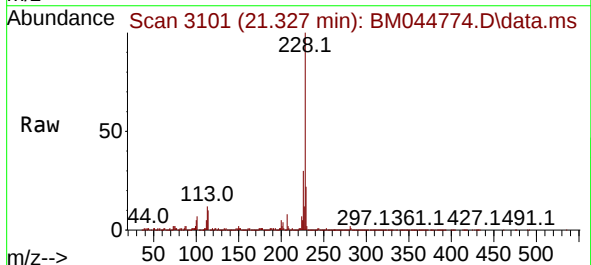
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

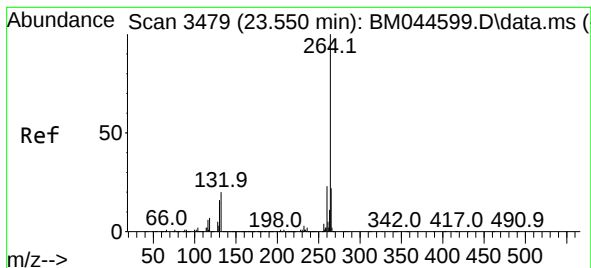
Tgt Ion:228 Resp: 1124656
Ion Ratio Lower Upper
228 100
226 29.6 21.9 32.9
229 20.6 15.9 23.9



#83
Chrysene
Concen: 25.911 ng
RT: 21.327 min Scan# 3101
Delta R.T. -0.012 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:228 Resp: 967985
Ion Ratio Lower Upper
228 100
226 30.0 23.6 35.4
229 22.2 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.538 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

Instrument :

BNA_M

ClientSampleId :

VNJ-235DL

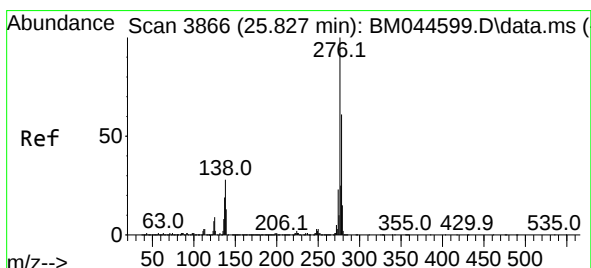
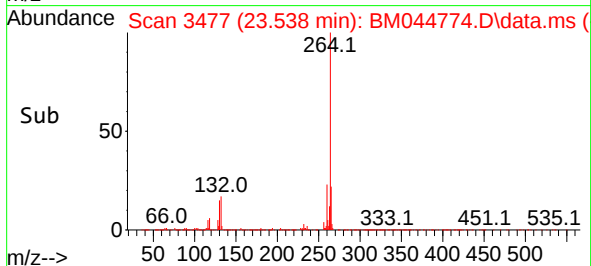
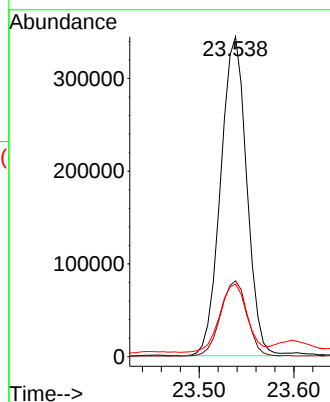
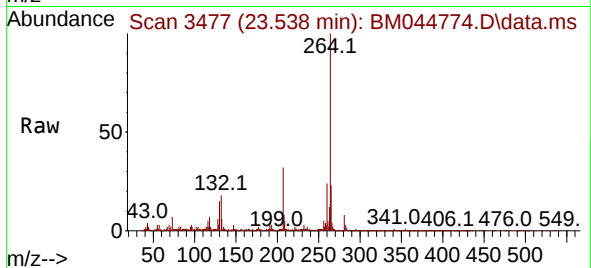
Tgt Ion:264 Resp: 656340

Ion Ratio Lower Upper

264 100

260 23.7 18.3 27.5

265 22.7 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.237 ng

RT: 25.803 min Scan# 3862

Delta R.T. -0.024 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

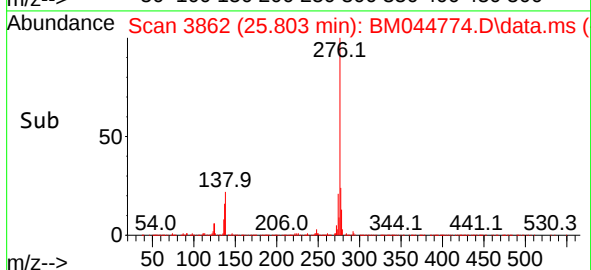
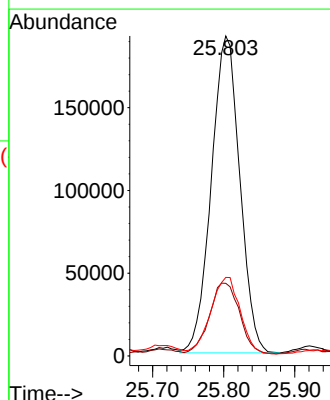
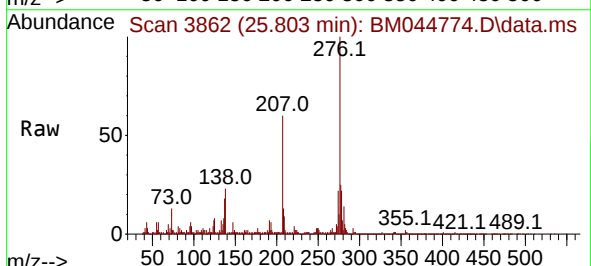
Tgt Ion:276 Resp: 533185

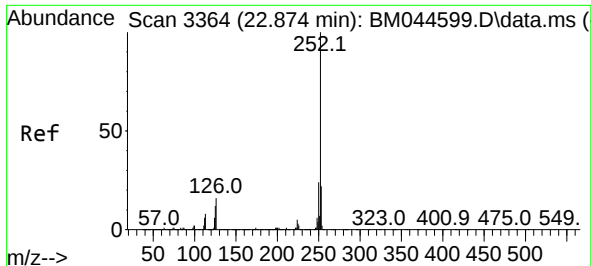
Ion Ratio Lower Upper

276 100

138 23.6 23.6 35.4

277 25.1 20.2 30.2

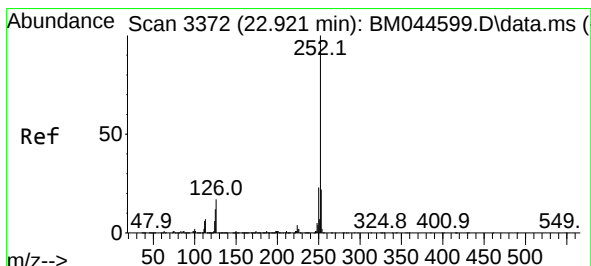
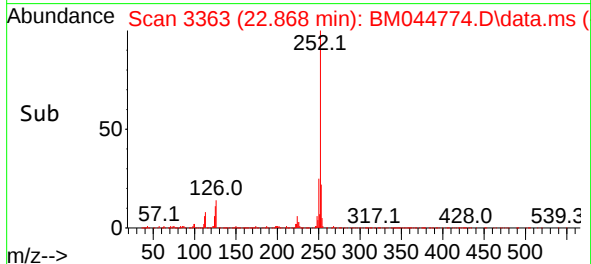
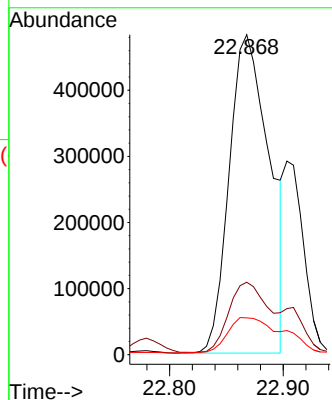
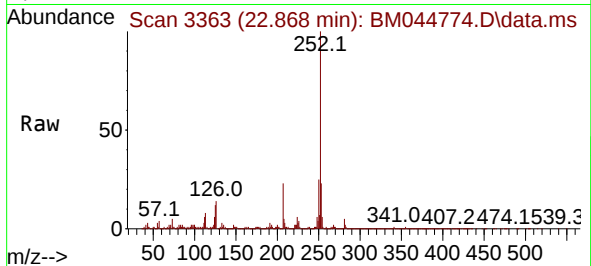




#88
Benzo(b)fluoranthene
Concen: 30.649 ng
RT: 22.868 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

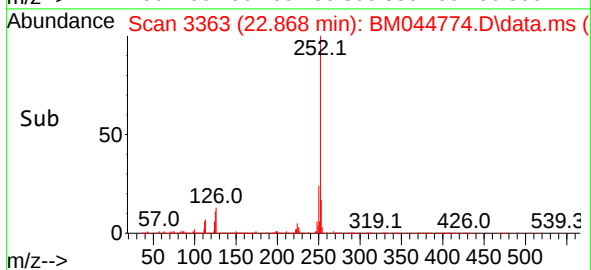
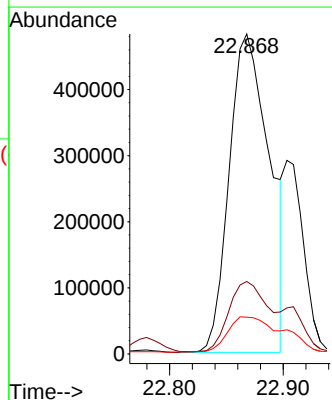
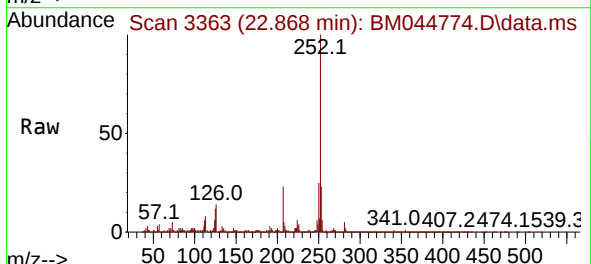
Instrument :
BNA_M
ClientSampleId :
VNJ-235DL

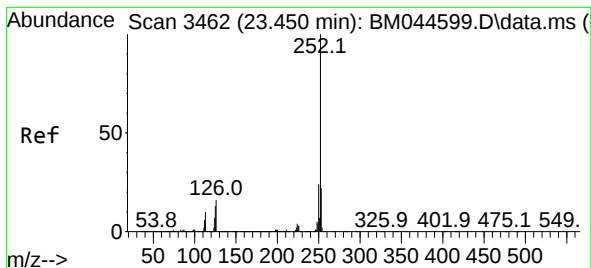
Tgt Ion:252 Resp: 1182185
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.8
125 11.5 9.6 14.4



#89
Benzo(k)fluoranthene
Concen: 29.814 ng
RT: 22.868 min Scan# 3363
Delta R.T. -0.053 min
Lab File: BM044774.D
Acq: 26 Mar 2024 18:26

Tgt Ion:252 Resp: 1182185
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 11.5 9.4 14.0





#90

Benzo(a)pyrene

Concen: 23.456 ng

RT: 23.438 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

Instrument :

BNA_M

ClientSampleId :

VNJ-235DL

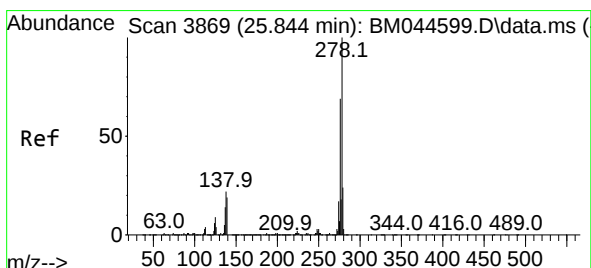
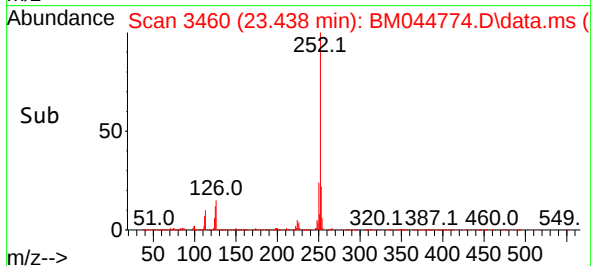
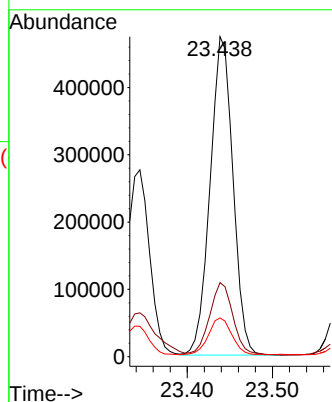
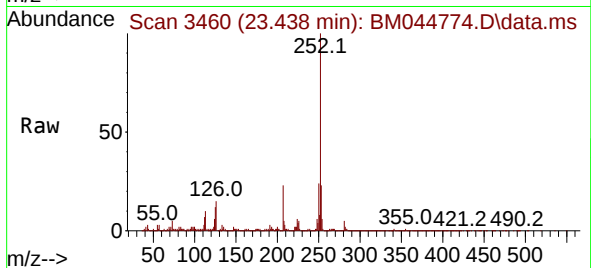
Tgt Ion:252 Resp: 882424

Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

125 12.1 10.5 15.7



#91

Dibenzo(a,h)anthracene

Concen: 3.597 ng

RT: 25.809 min Scan# 3863

Delta R.T. -0.035 min

Lab File: BM044774.D

Acq: 26 Mar 2024 18:26

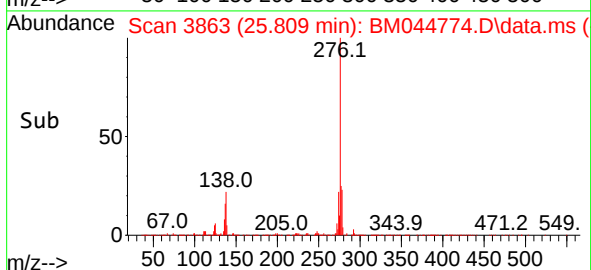
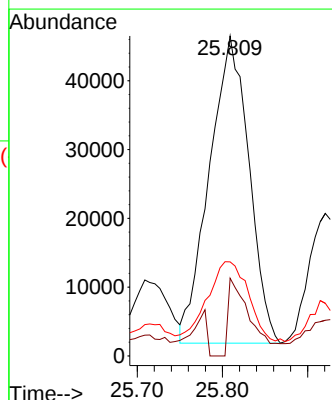
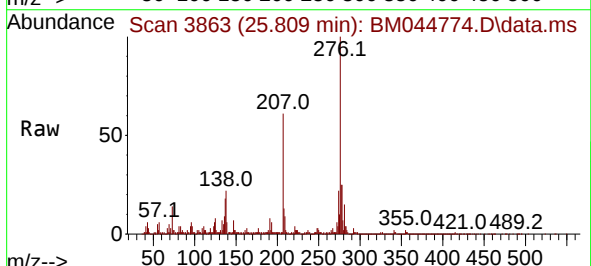
Tgt Ion:278 Resp: 143894

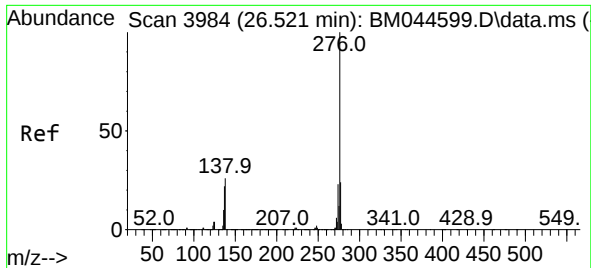
Ion Ratio Lower Upper

278 100

139 24.3 15.0 22.6#

279 29.4 19.3 28.9#





#92
 Benzo(g,h,i)perylene
 Concen: 12.370 ng
 RT: 26.497 min Scan# 3980
 Delta R.T. -0.024 min
 Lab File: BM044774.D
 Acq: 26 Mar 2024 18:26

Instrument :
 BNA_M
 ClientSampleId :
 VNJ-235DL

Tgt Ion:276 Resp: 487065

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.3	28.9
138	24.4	20.7	31.1

