

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110223\
 Data File : BN028444.D
 Acq On : 03 Nov 2023 05:20
 Operator : MA/JU
 Sample : 05220-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 Z-5(0-5)

Quant Time: Nov 03 06:02:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 02 06:26:50 2023
 Response via : Initial Calibration

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

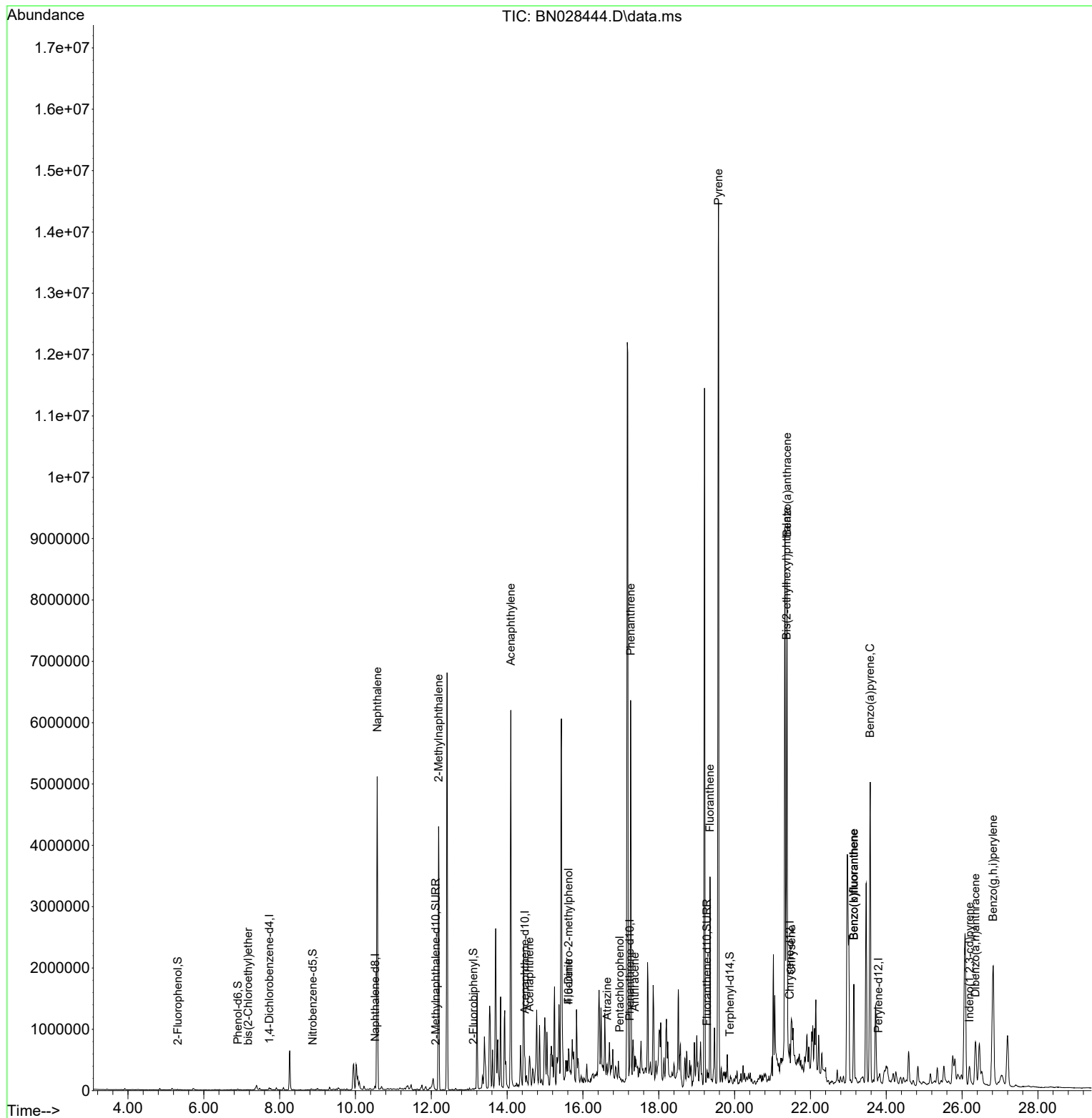
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.731	152	11382	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	35182	0.400	ng	# 0.00
13) Acenaphthene-d10	14.470	164	9831	0.400	ng	0.11
19) Phenanthrene-d10	17.233	188	3163	0.400	ng	# 0.11
29) Chrysene-d12	21.453	240	2872	0.400	ng	# 0.13
35) Perylene-d12	23.795	264	7804	0.400	ng	# 0.15
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	7412	0.249	ng	0.01
5) Phenol-d6	6.901	99	8958	0.238	ng	0.01
8) Nitrobenzene-d5	8.875	82	6366	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.117	152	12122	0.241	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng	
15) 2-Fluorobiphenyl	13.112	172	1171	0.100	ng	0.11
27) Fluoranthene-d10	19.273	212	52099	6.665	ng	0.12
31) Terphenyl-d14	19.877	244	2403	0.397	ng	0.11
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.168	93	1557	0.048	ng	# 70
9) Naphthalene	10.573	128	6597156	69.475	ng	99
12) 2-Methylnaphthalene	12.193	142	3062364	46.279	ng	99
16) Acenaphthylene	14.096	152	6136624	126.379	ng	98
17) Acenaphthene	14.588	154	81193	2.637	ng	# 14
18) Fluorene	15.619	166	586240	13.992	ng	# 72
20) 4,6-Dinitro-2-methylph...	15.619	198	961	4.085	ng	# 1
23) Atrazine	16.637	200	1056	0.718	ng	# 1
24) Pentachlorophenol	16.972	266	116	0.174	ng	# 27
25) Phenanthrene	17.257	178	6465118	691.940	ng	98
26) Anthracene	17.369	178	302275	33.881	ng	# 1
28) Fluoranthene	19.352	202	2908259	266.662	ng	96
30) Pyrene	19.570	202	14917644	1245.299	ng	# 91
32) Benzo(a)anthracene	21.382	228	7150773	627.402	ng	# 91
33) Chrysene	21.498	228	960620	84.612	ng	# 50
34) Bis(2-ethylhexyl)phtha...	21.373	149	29209	4.957	ng	# 50
36) Indeno(1,2,3-cd)pyrene	26.192	276	117685	3.869	ng	# 33
37) Benzo(b)fluoranthene	23.146	252	2237482	73.621	ng	97
38) Benzo(k)fluoranthene	23.146	252	2224884	72.816	ng	97
39) Benzo(a)pyrene	23.575	252	7562677	284.603	ng	96
40) Dibenzo(a,h)anthracene	26.353	278	1154536	46.266	ng	95
41) Benzo(g,h,i)perylene	26.821	276	4473941	167.407	ng	95

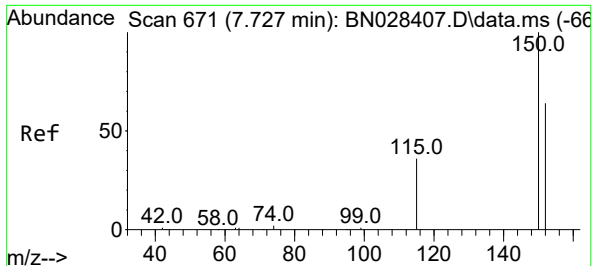
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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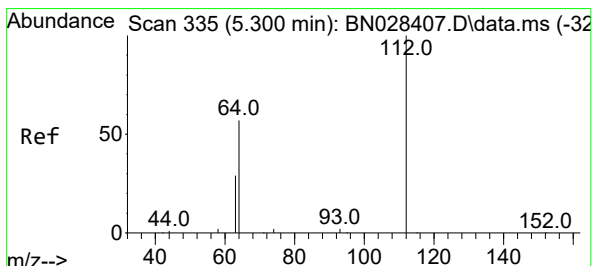
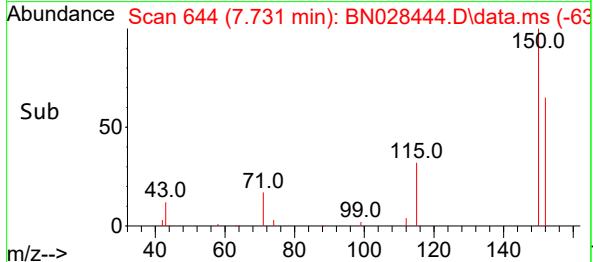
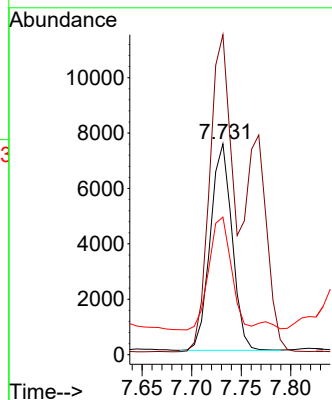
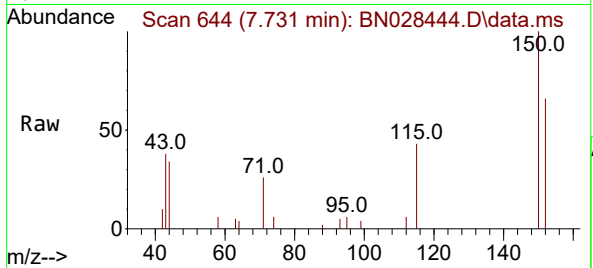




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.731 min Scan# 64
Delta R.T. 0.004 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

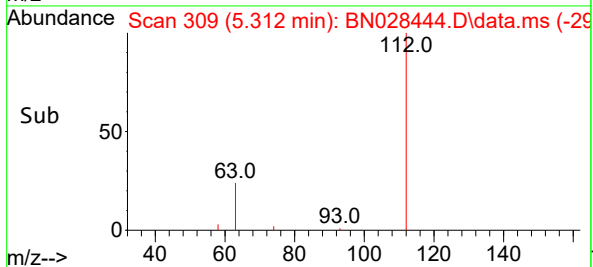
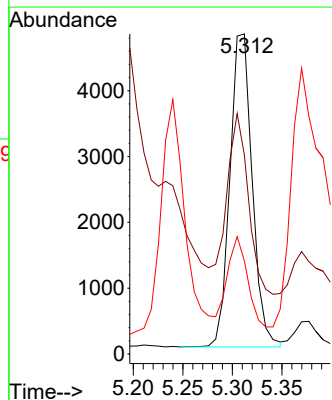
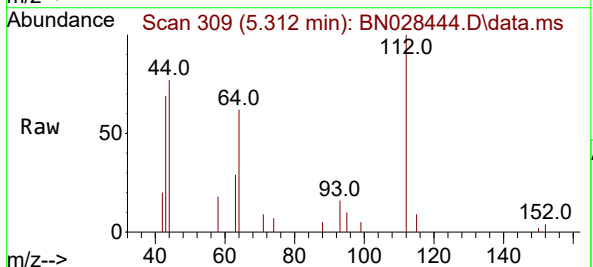
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

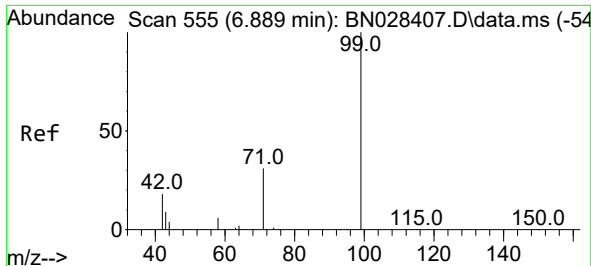
Tgt Ion:152 Resp: 11382
Ion Ratio Lower Upper
152 100
150 151.8 123.8 185.6
115 65.2 47.0 70.6



#4
2-Fluorophenol
Concen: 0.249 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.012 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:112 Resp: 7412
Ion Ratio Lower Upper
112 100
64 56.3 44.3 66.5
63 25.6 22.6 33.8

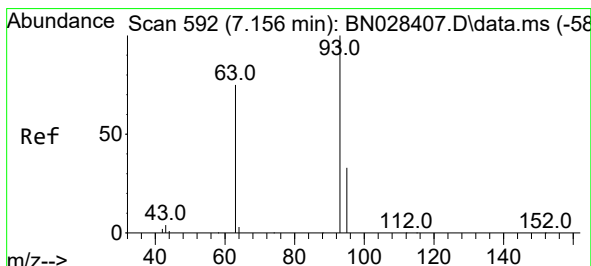
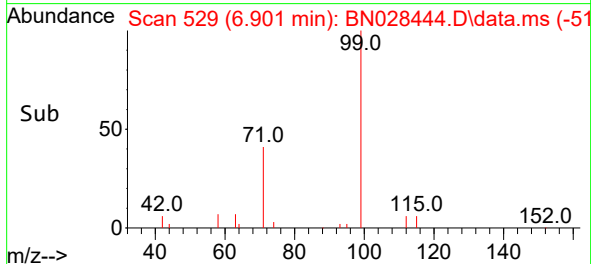
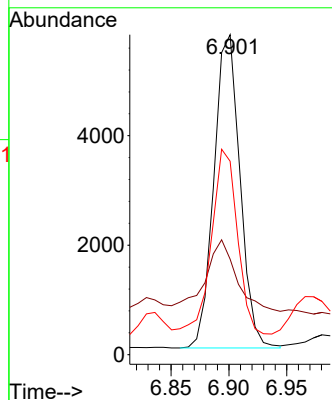
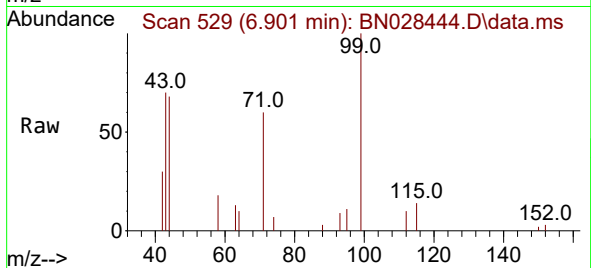




#5
Phenol-d6
Concen: 0.238 ng
RT: 6.901 min Scan# 511
Delta R.T. 0.012 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

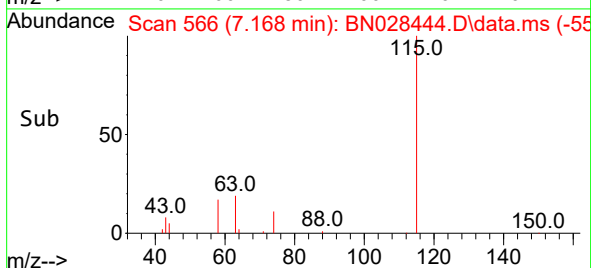
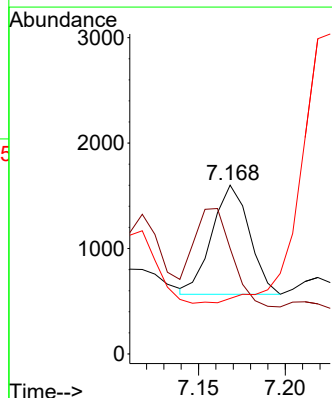
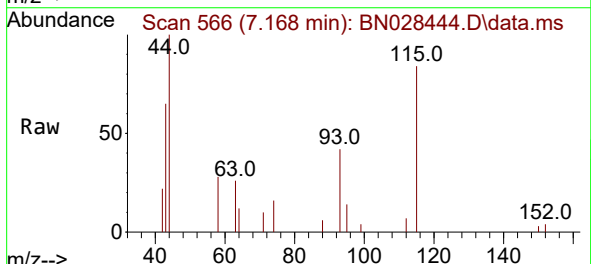
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

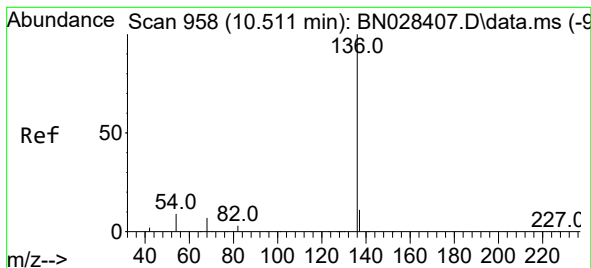
Tgt Ion: 99 Resp: 8958
Ion Ratio Lower Upper
99 100
42 30.9 15.4 23.0#
71 58.7 24.4 36.6#



#6
bis(2-Chloroethyl)ether
Concen: 0.048 ng
RT: 7.168 min Scan# 566
Delta R.T. 0.012 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion: 93 Resp: 1557
Ion Ratio Lower Upper
93 100
63 92.1 61.4 92.0#
95 0.0 26.1 39.1#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.519 min Scan# 91

Delta R.T. 0.008 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

Tgt Ion:136 Resp: 35182

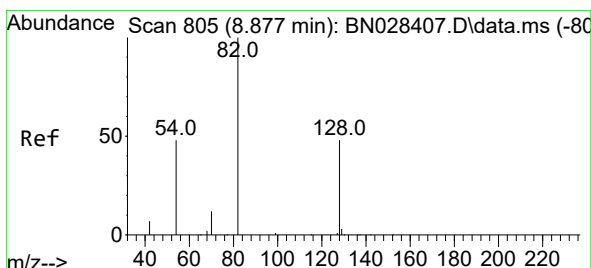
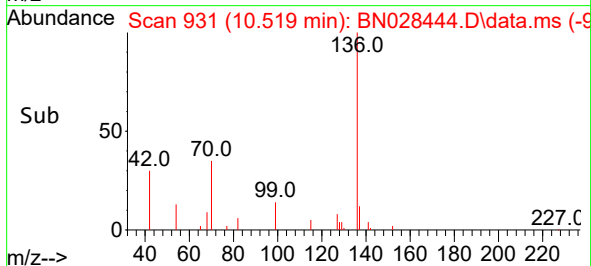
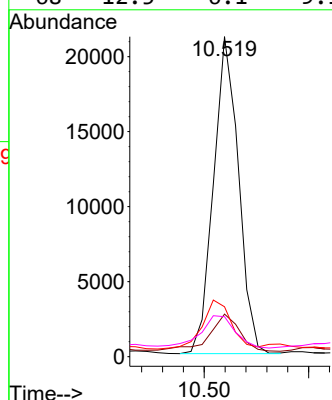
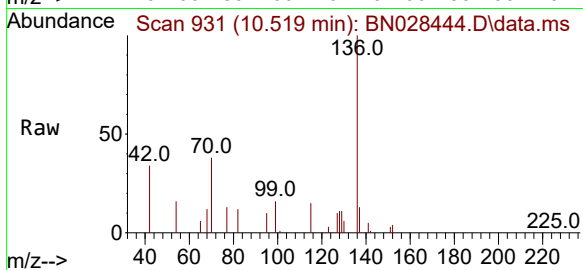
Ion Ratio Lower Upper

136 100

137 13.3 9.0 13.4

54 15.6 7.9 11.9#

68 12.5 6.1 9.1#



#8

Nitrobenzene-d5

Concen: 0.280 ng

RT: 8.875 min Scan# 777

Delta R.T. -0.002 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

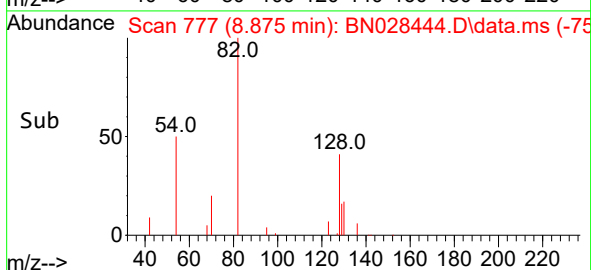
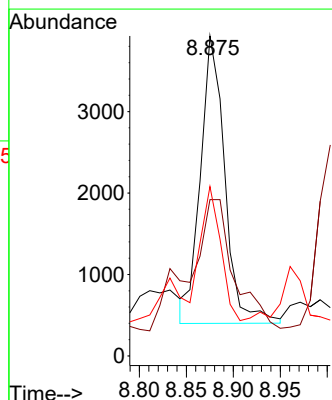
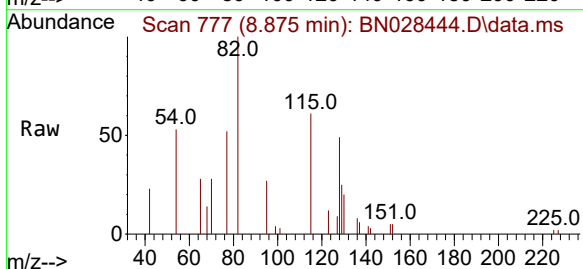
Tgt Ion: 82 Resp: 6366

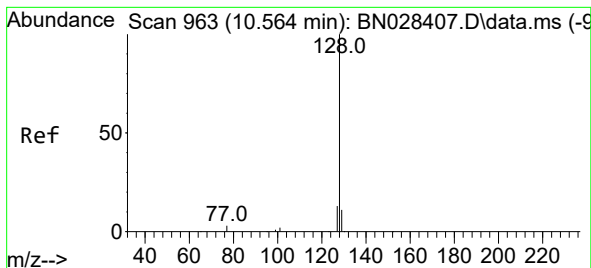
Ion Ratio Lower Upper

82 100

128 48.9 38.8 58.2

54 52.9 40.3 60.5





#9

Naphthalene

Concen: 69.475 ng

RT: 10.573 min Scan# 91

Delta R.T. 0.008 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

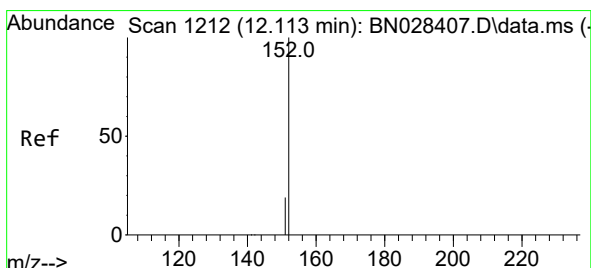
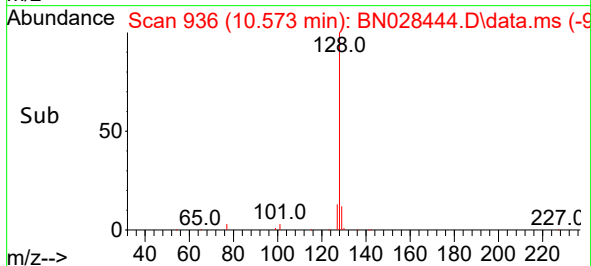
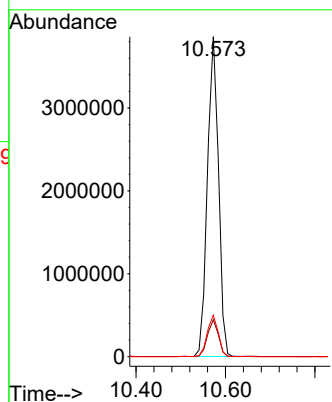
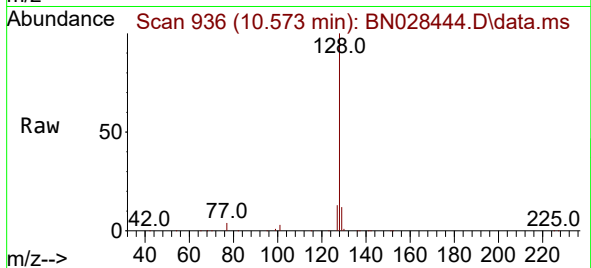
Tgt Ion:128 Resp: 6597156

Ion Ratio Lower Upper

128 100

129 11.6 8.9 13.3

127 12.9 10.4 15.6



#11

2-Methylnaphthalene-d10

Concen: 0.241 ng

RT: 12.117 min Scan# 1184

Delta R.T. 0.005 min

Lab File: BN028444.D

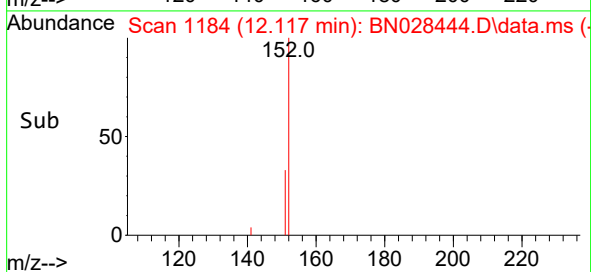
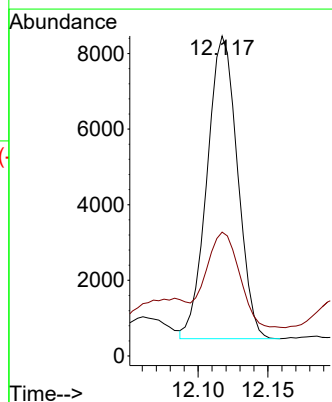
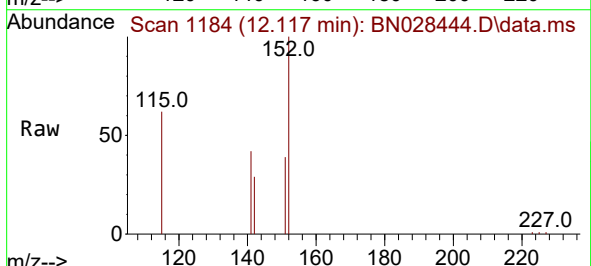
Acq: 03 Nov 2023 05:20

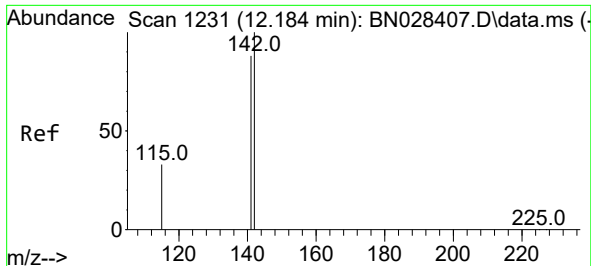
Tgt Ion:152 Resp: 12122

Ion Ratio Lower Upper

152 100

151 36.7 16.4 24.6#

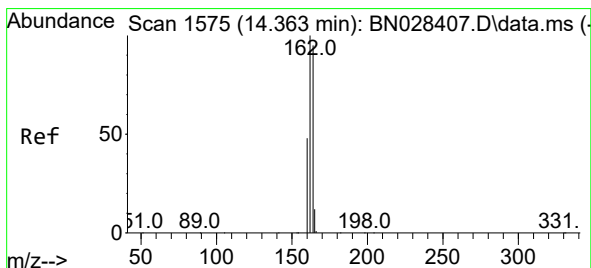
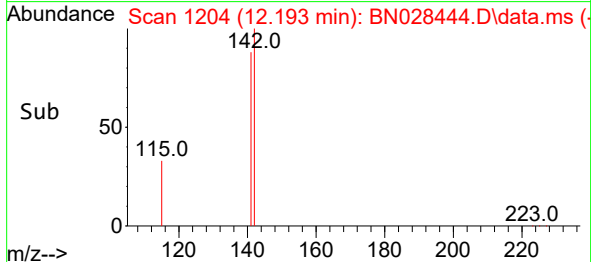
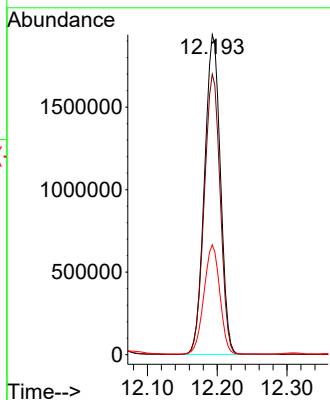
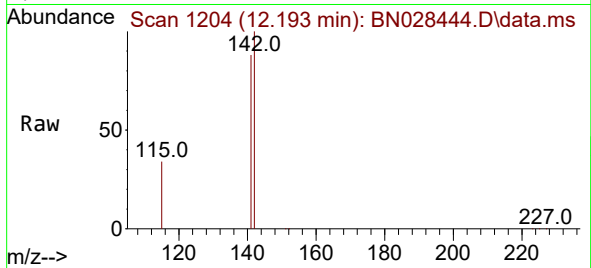




#12
2-Methylnaphthalene
Concen: 46.279 ng
RT: 12.193 min Scan# 11
Delta R.T. 0.008 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

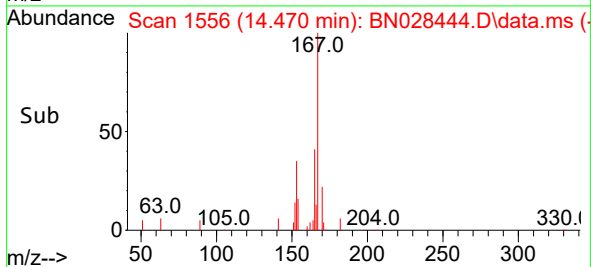
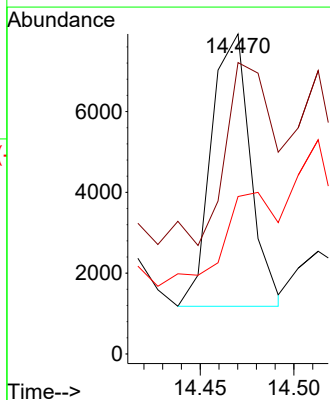
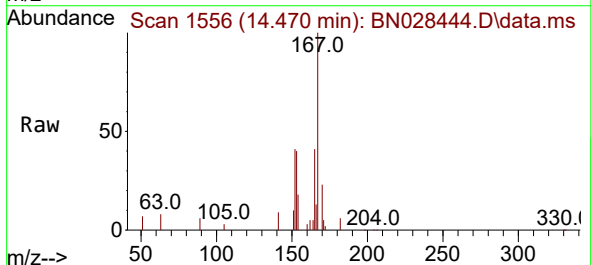
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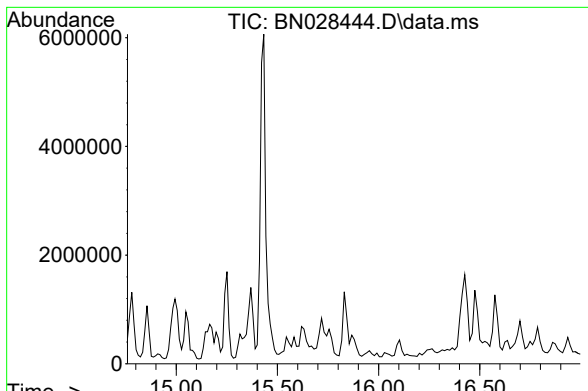
Tgt Ion:142 Resp: 3062364
Ion Ratio Lower Upper
142 100
141 87.7 70.7 106.1
115 34.3 27.6 41.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1556
Delta R.T. 0.108 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:164 Resp: 9831
Ion Ratio Lower Upper
164 100
162 91.1 84.6 127.0
160 49.2 41.3 61.9

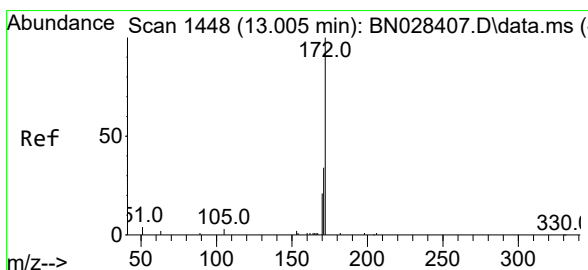
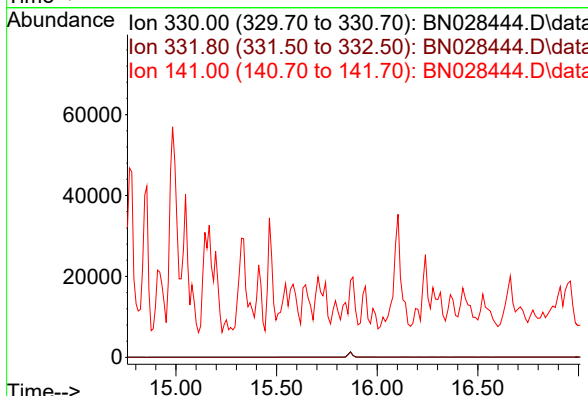




#14
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 15.85 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

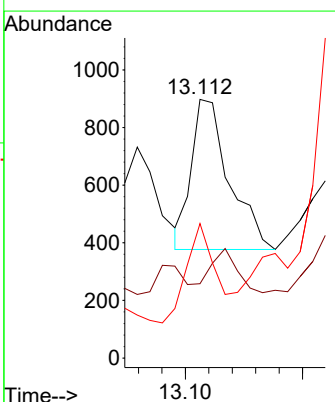
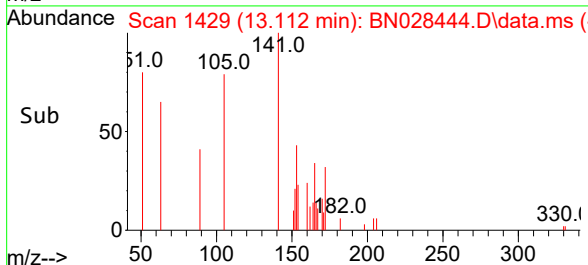
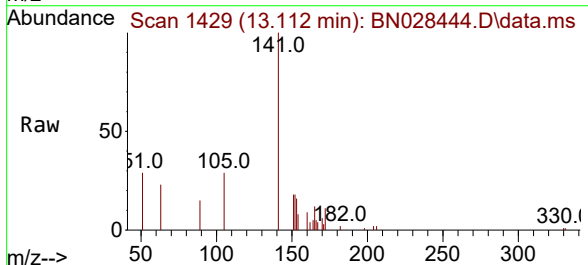
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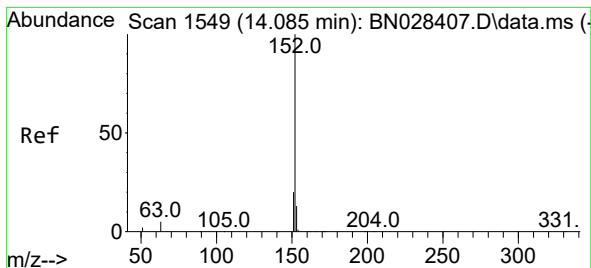
Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 95.2
 141 41.0



#15
 2-Fluorobiphenyl
 Concen: 0.100 ng
 RT: 13.112 min Scan# 1429
 Delta R.T. 0.108 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

Tgt Ion: 172 Resp: 1171
 Ion Ratio Lower Upper
 172 100
 171 28.7 27.2 40.8
 170 52.0 17.1 25.7#





#16

Acenaphthylene

Concen: 126.379 ng

RT: 14.096 min Scan# 1521

Delta R.T. 0.011 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

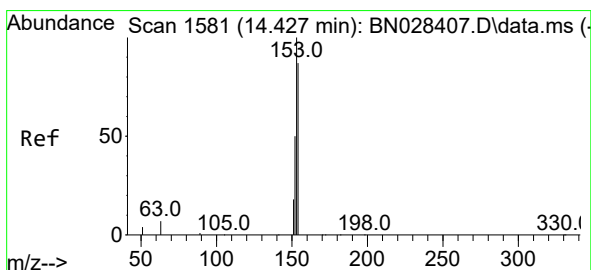
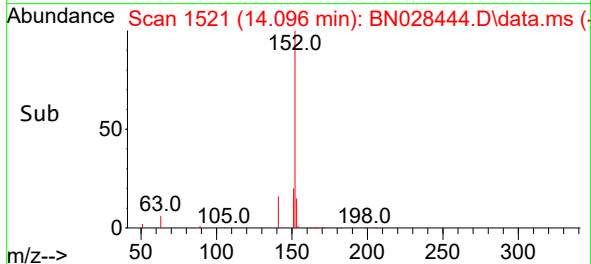
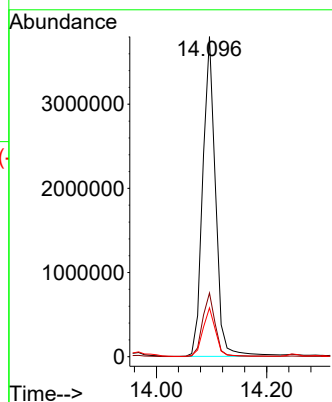
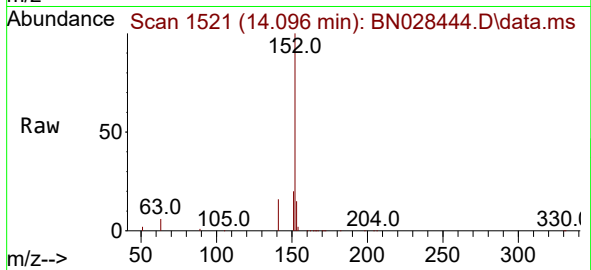
Tgt Ion:152 Resp: 6136624

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

153 15.1 10.5 15.7



#17

Acenaphthene

Concen: 2.637 ng

RT: 14.588 min Scan# 1567

Delta R.T. 0.161 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

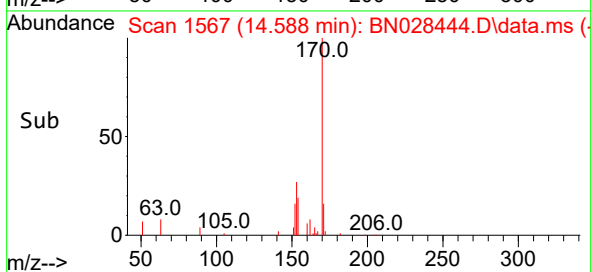
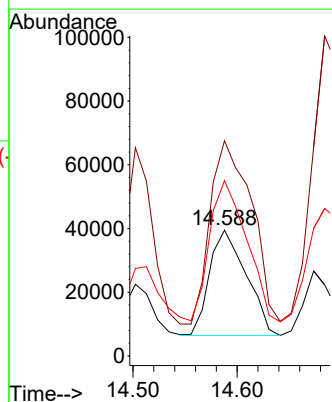
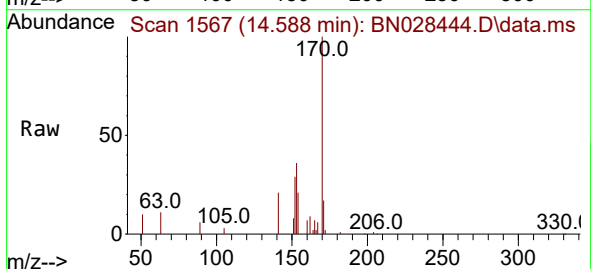
Tgt Ion:154 Resp: 81193

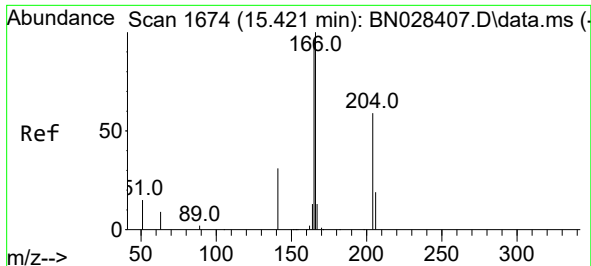
Ion Ratio Lower Upper

154 100

153 195.7 90.5 135.7#

152 134.8 45.8 68.6#

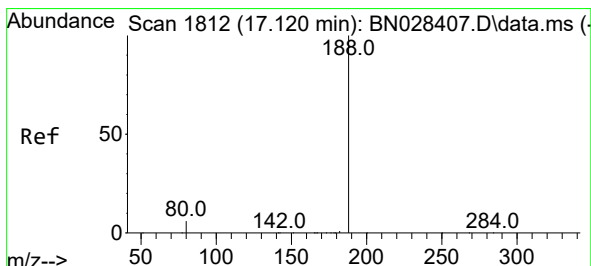
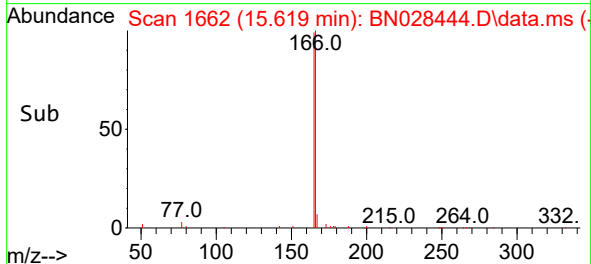
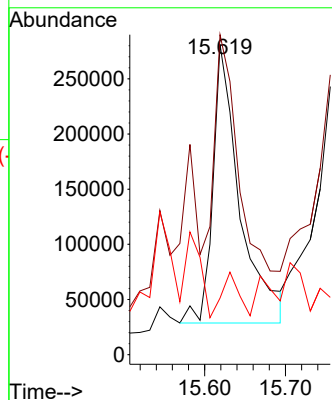
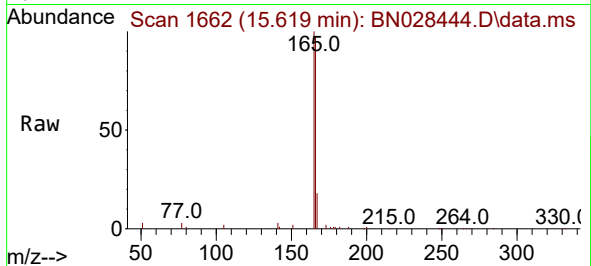




#18
Fluorene
Concen: 13.992 ng
RT: 15.619 min Scan# 1792
Delta R.T. 0.198 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

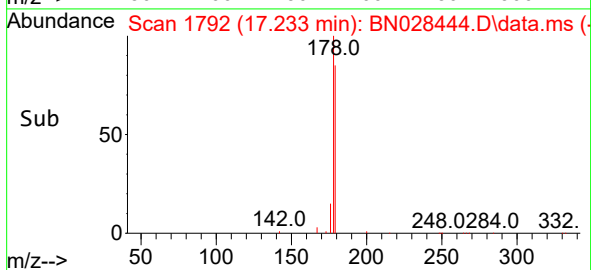
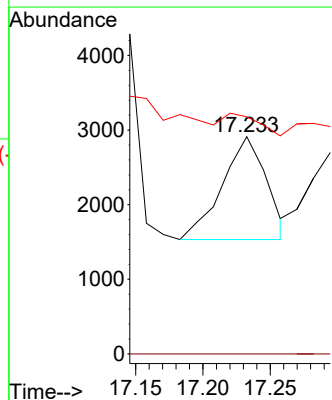
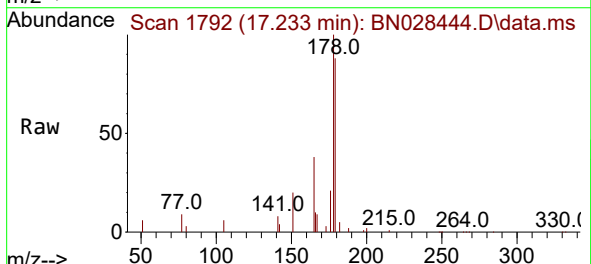
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

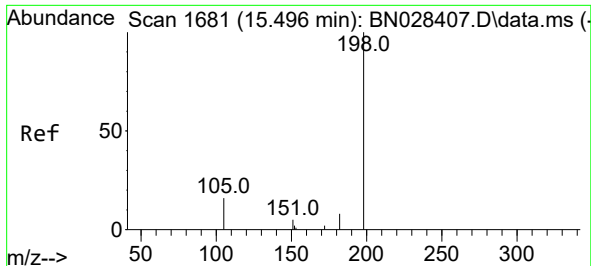
Tgt Ion:166 Resp: 586240
Ion Ratio Lower Upper
166 100
165 69.0 79.2 118.8#
167 7.8 10.6 16.0#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.233 min Scan# 1792
Delta R.T. 0.112 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:188 Resp: 3163
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 109.1 5.3 7.9#

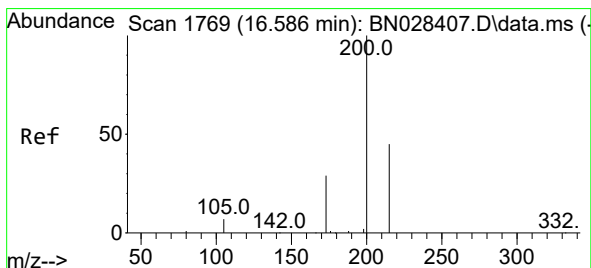
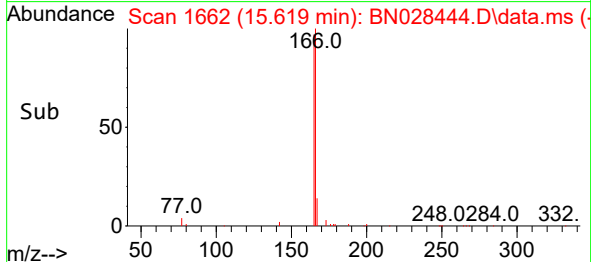
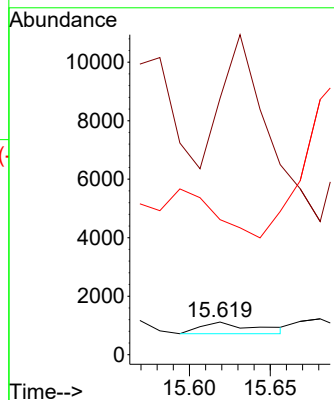
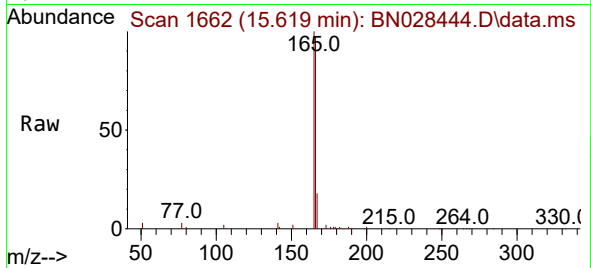




#20
4,6-Dinitro-2-methylphenol
Concen: 4.085 ng
RT: 15.619 min Scan# 1
Delta R.T. 0.123 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

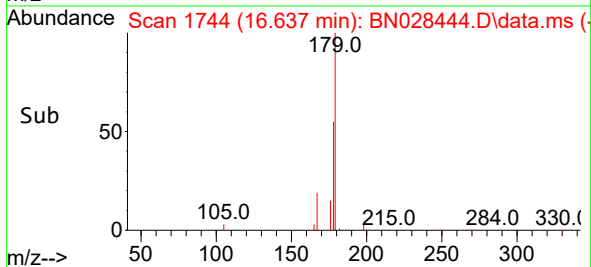
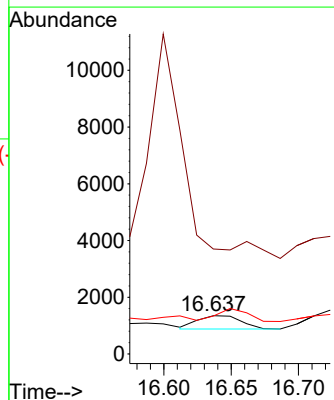
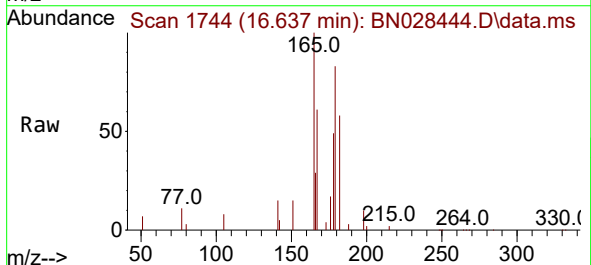
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

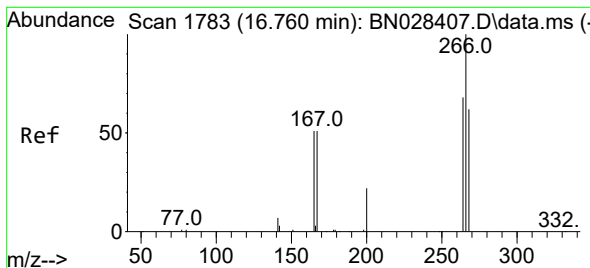
Tgt Ion:198 Resp: 961
Ion Ratio Lower Upper
198 100
51 783.3 63.3 94.9#
105 412.9 50.0 75.0#



#23
Atrazine
Concen: 0.718 ng
RT: 16.637 min Scan# 1744
Delta R.T. 0.050 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:200 Resp: 1056
Ion Ratio Lower Upper
200 100
173 274.0 24.3 36.5#
215 99.3 36.2 54.4#





#24

Pentachlorophenol

Concen: 0.174 ng

RT: 16.972 min Scan# 11

Delta R.T. 0.212 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

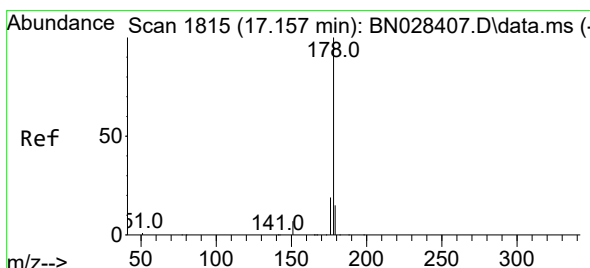
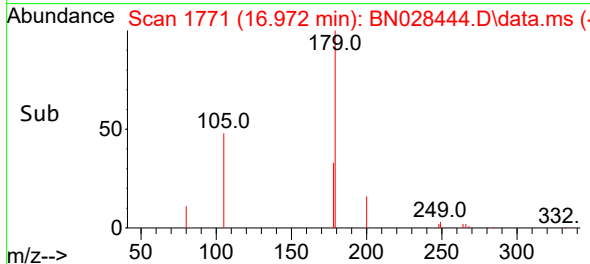
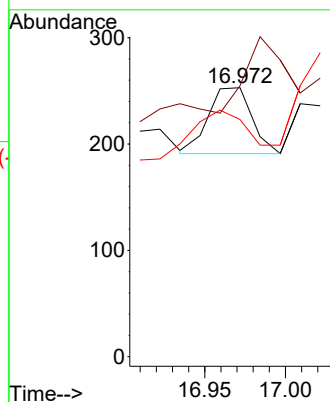
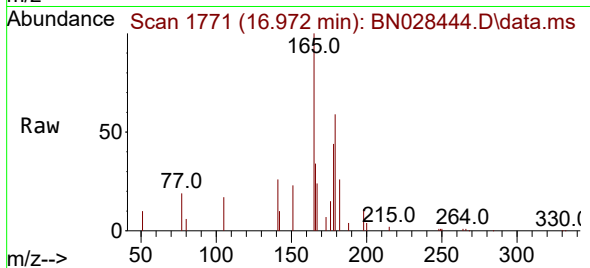
Tgt Ion:266 Resp: 116

Ion Ratio Lower Upper

266 100

264 0.0 50.9 76.3#

268 114.7 51.0 76.4#



#25

Phenanthrene

Concen: 691.940 ng

RT: 17.257 min Scan# 1794

Delta R.T. 0.100 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

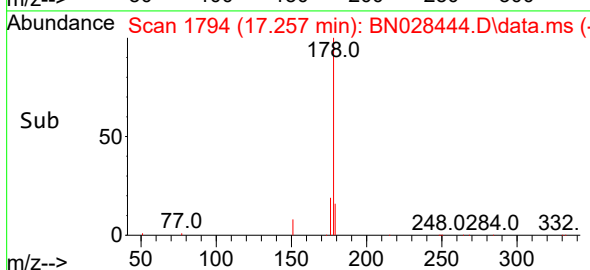
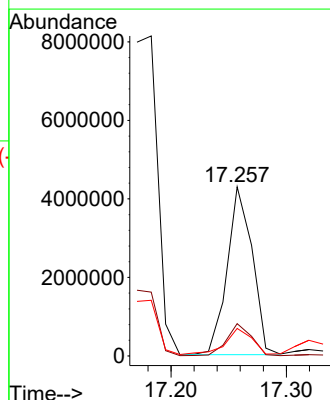
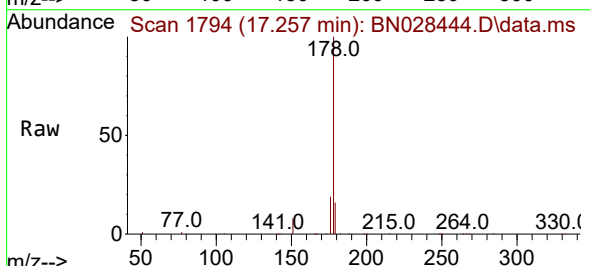
Tgt Ion:178 Resp: 6465118

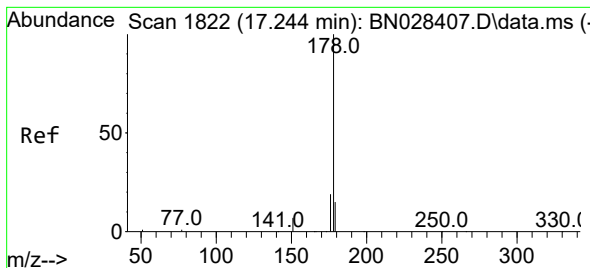
Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

179 16.6 12.2 18.2





#26

Anthracene

Concen: 33.881 ng

RT: 17.369 min Scan# 1803

Delta R.T. 0.125 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

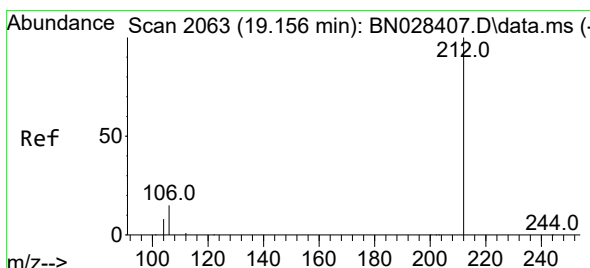
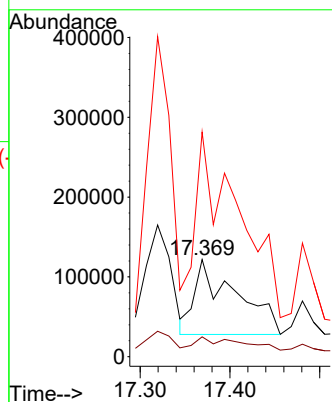
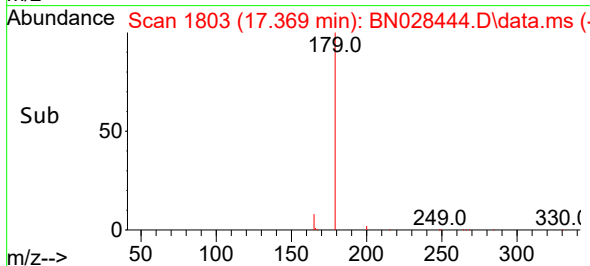
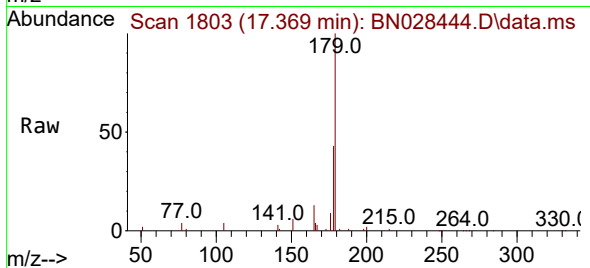
Tgt Ion:178 Resp: 302275

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 255.7 12.2 18.4#



#27

Fluoranthene-d10

Concen: 6.665 ng

RT: 19.273 min Scan# 2059

Delta R.T. 0.117 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

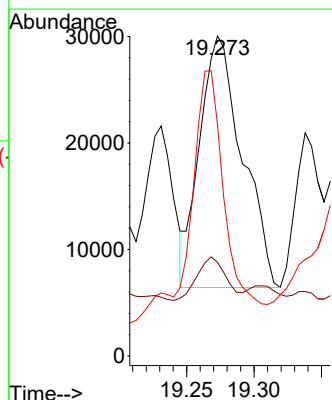
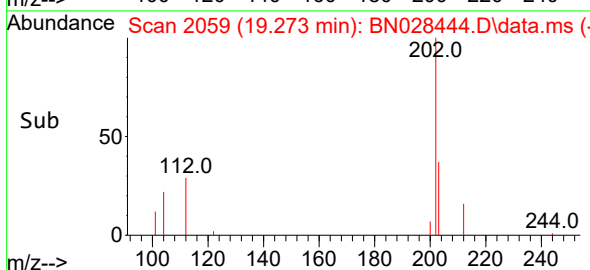
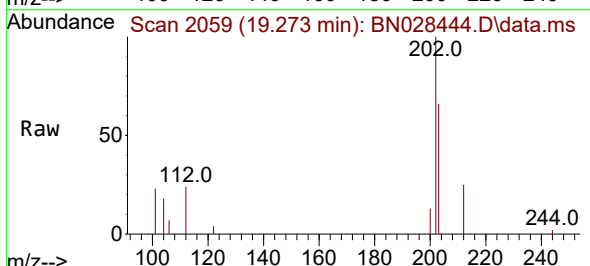
Tgt Ion:212 Resp: 52099

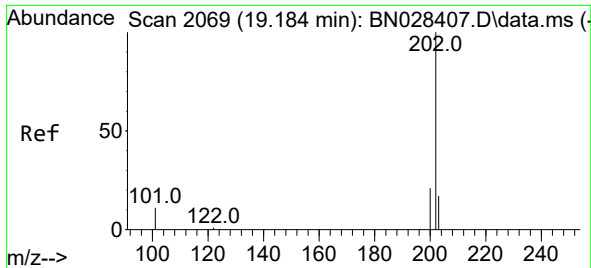
Ion Ratio Lower Upper

212 100

106 11.6 11.9 17.9#

104 82.5 6.7 10.1#

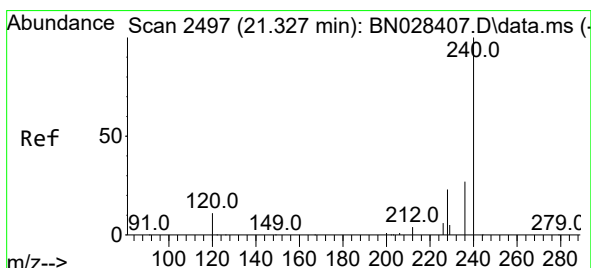
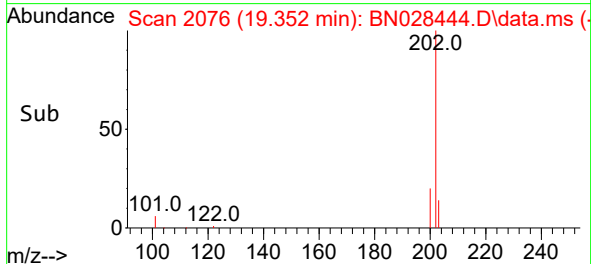
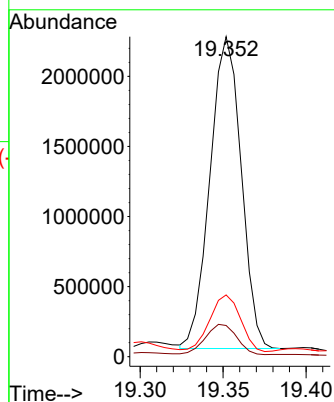
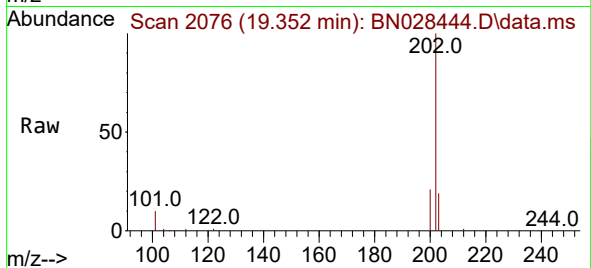




#28
Fluoranthene
Concen: 266.662 ng
RT: 19.352 min Scan# 2069
Delta R.T. 0.168 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

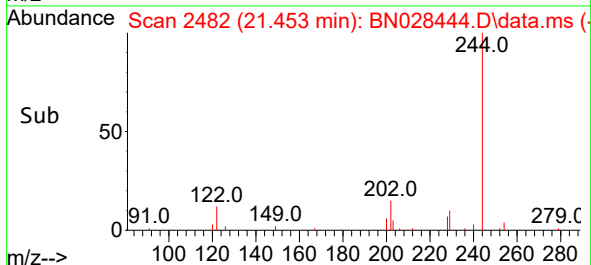
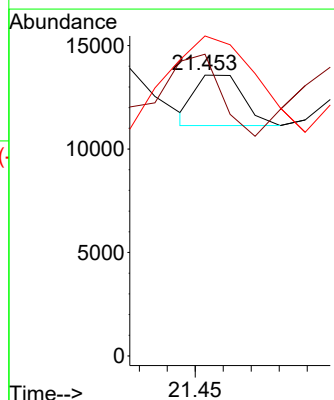
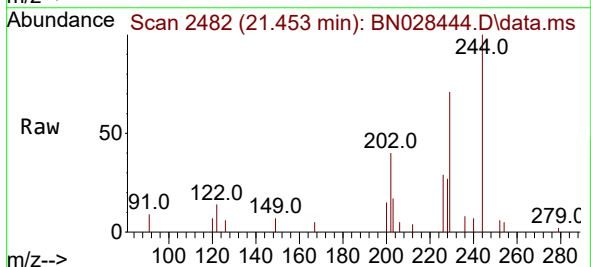
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

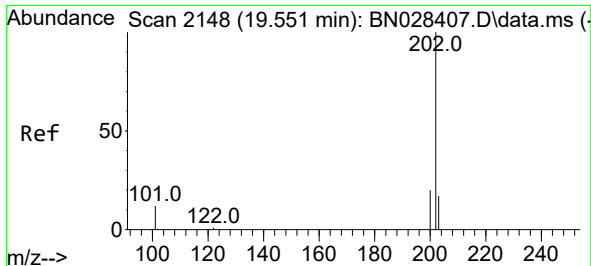
Tgt Ion:202 Resp: 2908259
Ion Ratio Lower Upper
202 100
101 9.6 9.3 13.9
203 18.1 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.453 min Scan# 2482
Delta R.T. 0.126 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:240 Resp: 2872
Ion Ratio Lower Upper
240 100
120 107.4 9.8 14.6#
236 113.9 22.2 33.2#

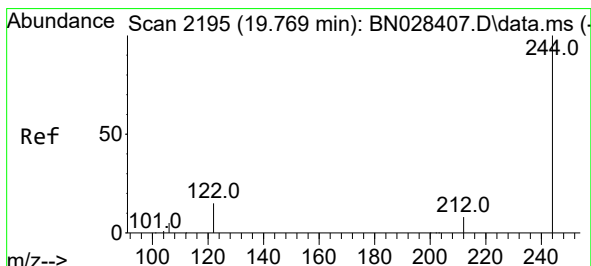
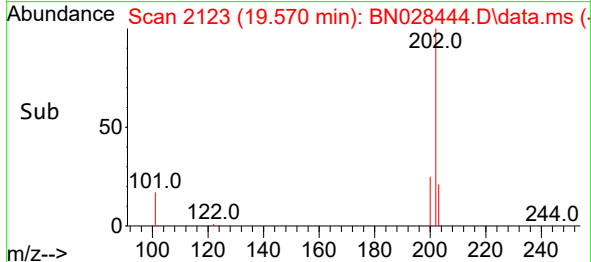
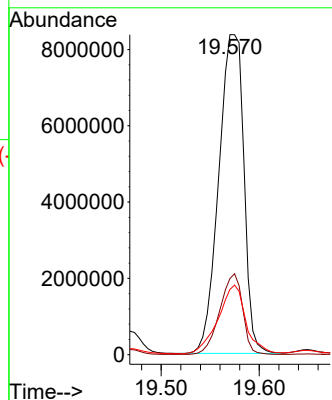
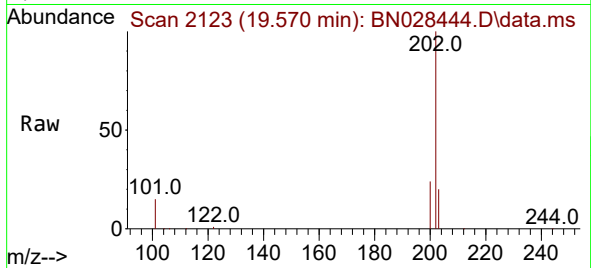




#30
Pyrene
Concen: 1245.299 ng
RT: 19.570 min Scan# 2119
Delta R.T. 0.019 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

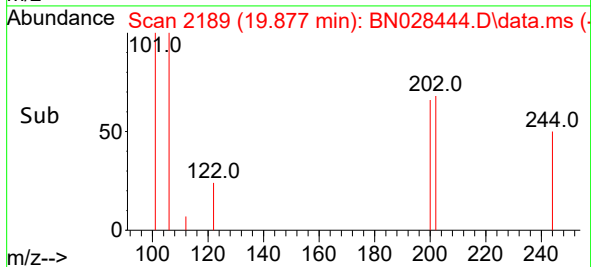
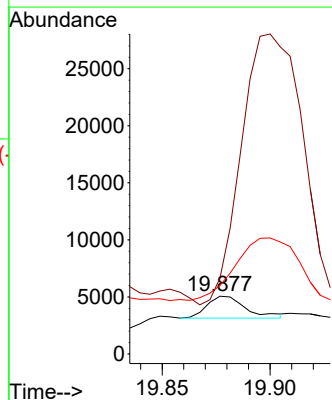
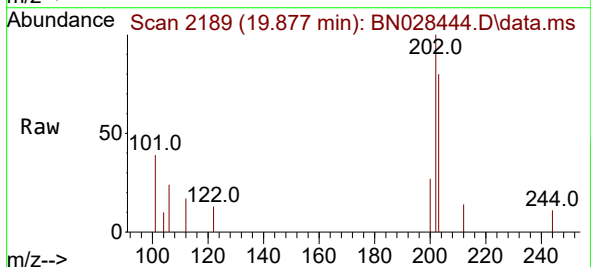
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

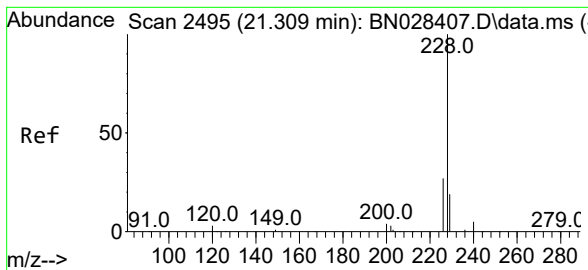
Tgt Ion:202 Resp:14917644
Ion Ratio Lower Upper
202 100
200 22.9 16.6 25.0
203 23.6 14.2 21.2#



#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.877 min Scan# 2189
Delta R.T. 0.108 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:244 Resp: 2403
Ion Ratio Lower Upper
244 100
212 131.8 6.6 10.0#
122 118.4 12.6 19.0#

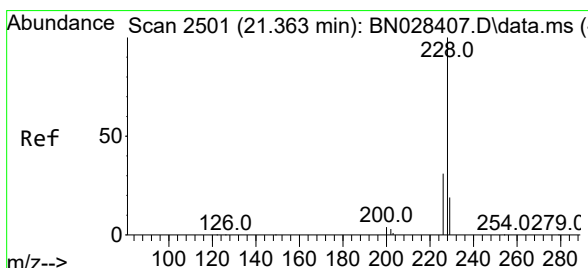
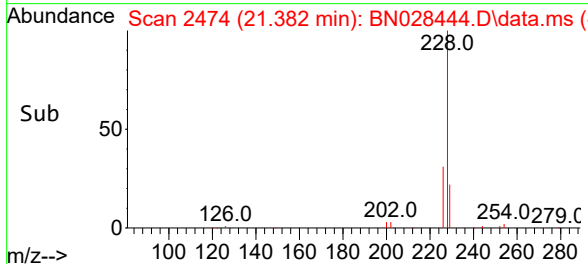
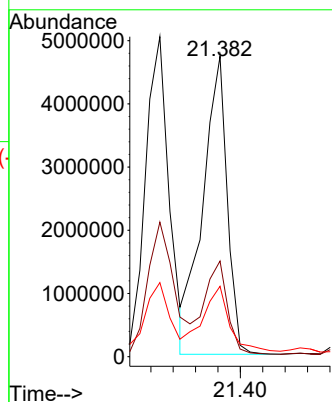
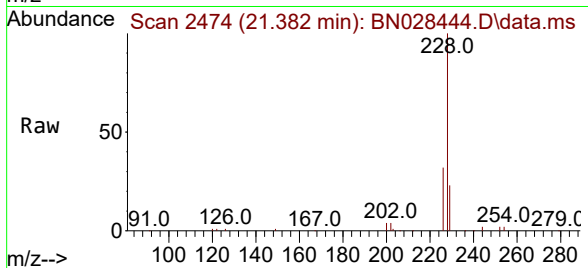




#32
Benzo(a)anthracene
Concen: 627.402 ng
RT: 21.382 min Scan# 2495
Delta R.T. 0.072 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

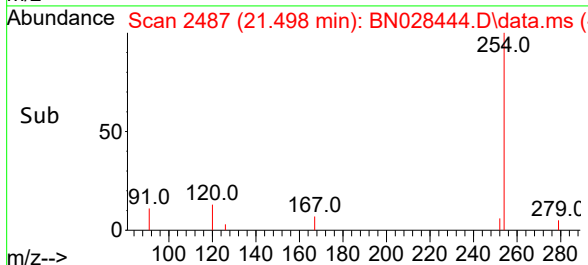
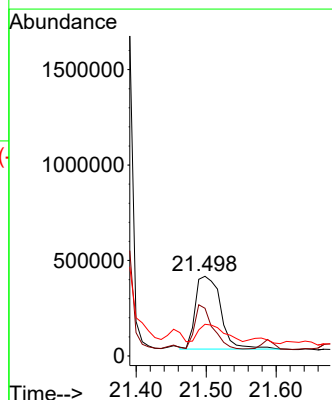
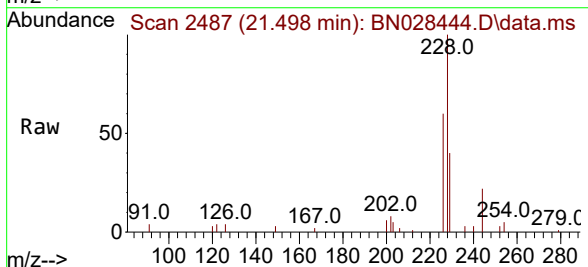
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

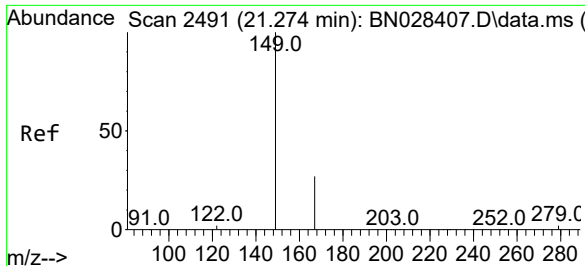
Tgt Ion:228 Resp: 7150773
Ion Ratio Lower Upper
228 100
226 31.9 21.8 32.8
229 23.4 15.5 23.3#



#33
Chrysene
Concen: 84.612 ng
RT: 21.498 min Scan# 2487
Delta R.T. 0.135 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:228 Resp: 960620
Ion Ratio Lower Upper
228 100
226 59.7 24.6 36.8#
229 39.8 15.7 23.5#

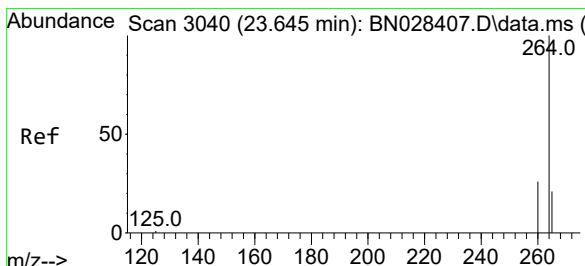
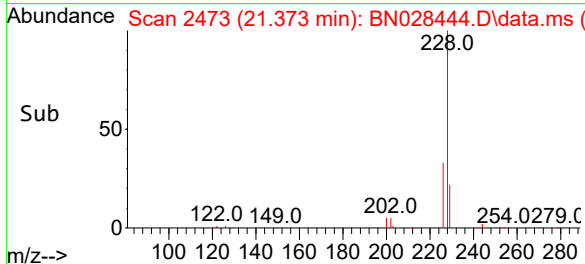
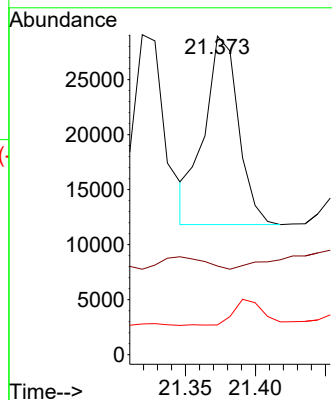
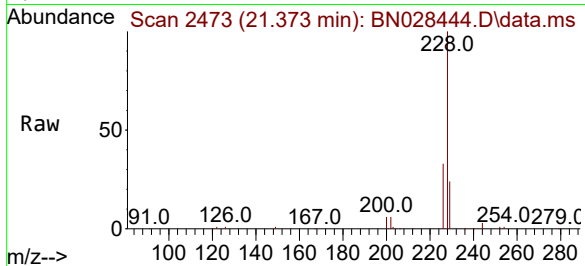




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 4.957 ng
 RT: 21.373 min Scan# 2491
 Delta R.T. 0.099 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

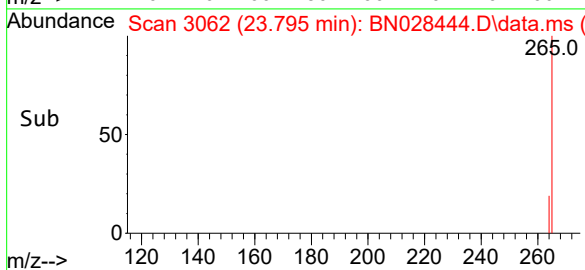
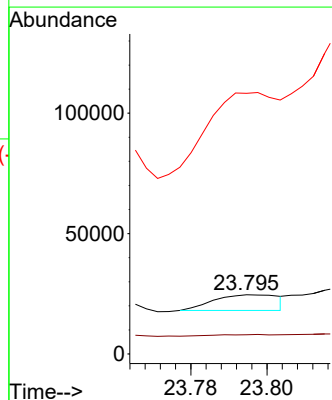
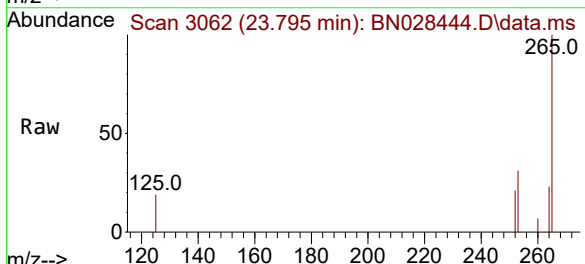
Instrument :
 BNA_N
 ClientSampleId :
 Z-5(0-5)

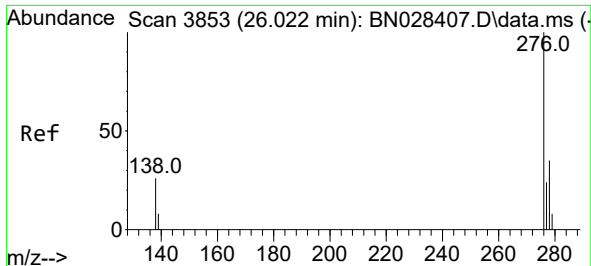
Tgt Ion:149 Resp: 29209
 Ion Ratio Lower Upper
 149 100
 167 0.0 21.4 32.0#
 279 12.6 2.3 3.5#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.795 min Scan# 3062
 Delta R.T. 0.150 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

Tgt Ion:264 Resp: 7804
 Ion Ratio Lower Upper
 264 100
 260 32.4 20.8 31.2#
 265 439.7 21.7 32.5#

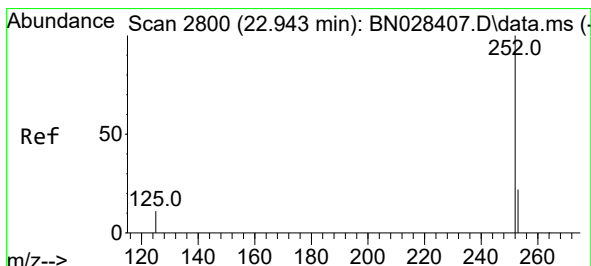
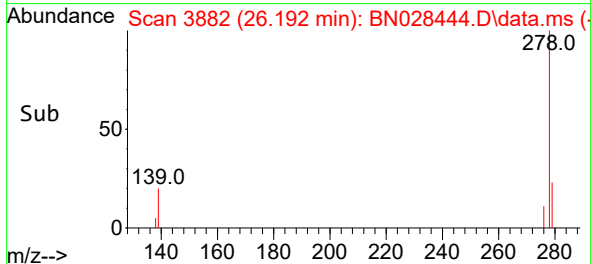
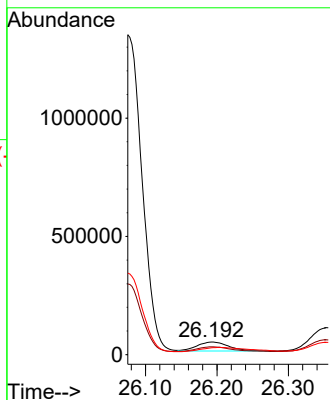
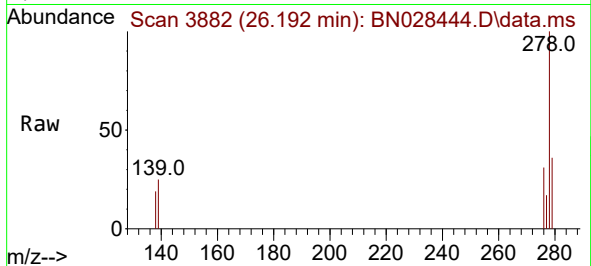




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.869 ng
 RT: 26.192 min Scan# 3853
 Delta R.T. 0.170 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

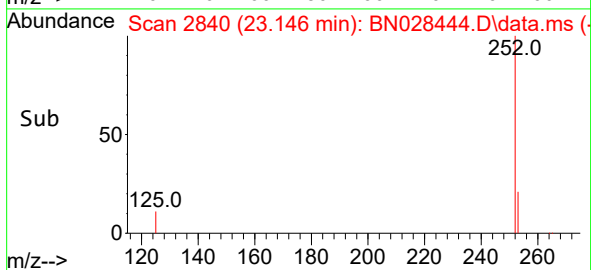
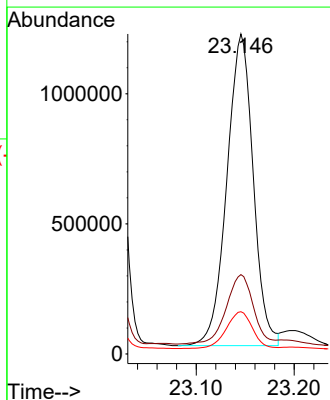
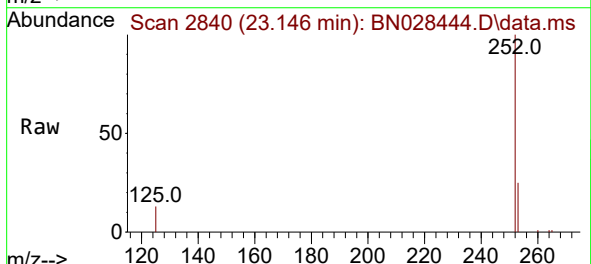
Instrument :
 BNA_N
 ClientSampleId :
 Z-5(0-5)

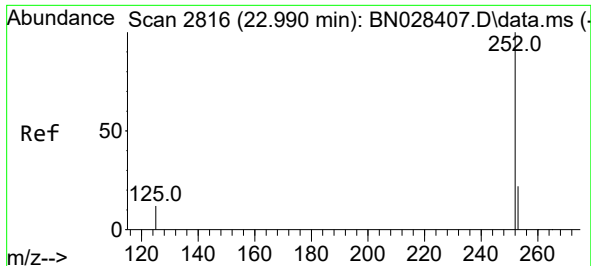
Tgt Ion:276 Resp: 117685
 Ion Ratio Lower Upper
 276 100
 138 55.5 24.1 36.1#
 277 70.6 19.7 29.5#



#37
 Benzo(b)fluoranthene
 Concen: 73.621 ng
 RT: 23.146 min Scan# 2840
 Delta R.T. 0.203 min
 Lab File: BN028444.D
 Acq: 03 Nov 2023 05:20

Tgt Ion:252 Resp: 2237482
 Ion Ratio Lower Upper
 252 100
 253 24.8 18.2 27.4
 125 13.2 10.0 15.0

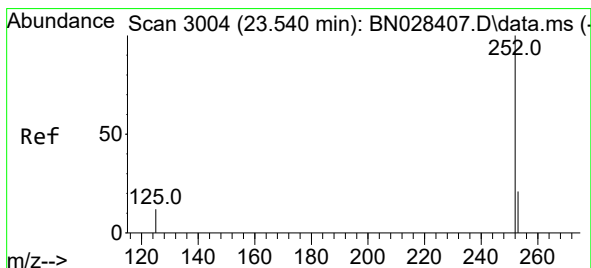
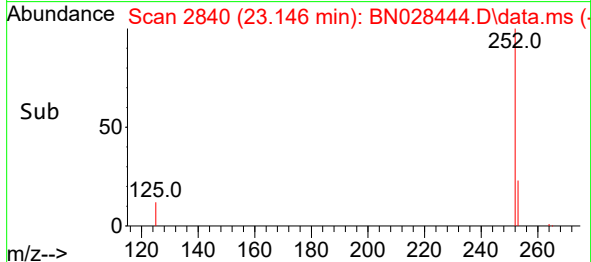
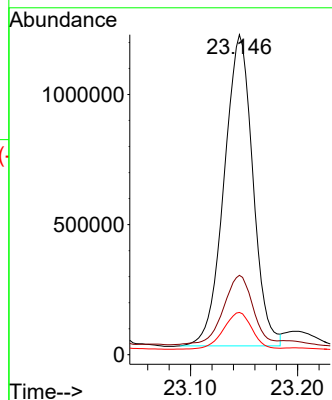
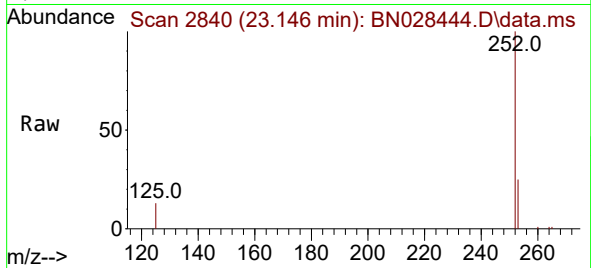




#38
Benzo(k)fluoranthene
Concen: 72.816 ng
RT: 23.146 min Scan# 21
Delta R.T. 0.156 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

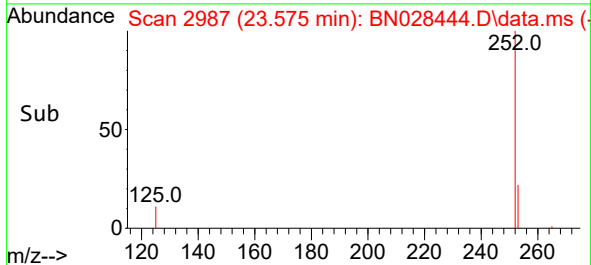
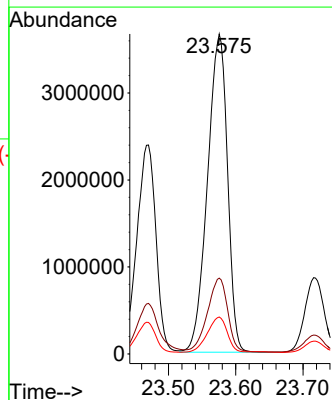
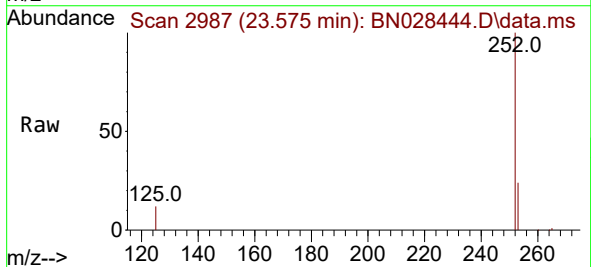
Instrument :
BNA_N
ClientSampleId :
Z-5(0-5)

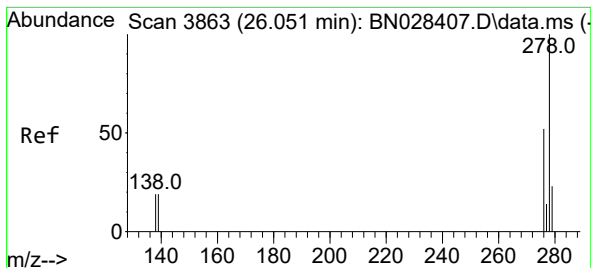
Tgt Ion:252 Resp: 2224884
Ion Ratio Lower Upper
252 100
253 24.8 18.1 27.1
125 13.2 10.2 15.2



#39
Benzo(a)pyrene
Concen: 284.603 ng
RT: 23.575 min Scan# 2987
Delta R.T. 0.036 min
Lab File: BN028444.D
Acq: 03 Nov 2023 05:20

Tgt Ion:252 Resp: 7562677
Ion Ratio Lower Upper
252 100
253 23.7 17.9 26.9
125 11.5 11.0 16.6





#40

Dibenzo(a,h)anthracene

Concen: 46.266 ng

RT: 26.353 min Scan# 3937

Delta R.T. 0.302 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Instrument :

BNA_N

ClientSampleId :

Z-5(0-5)

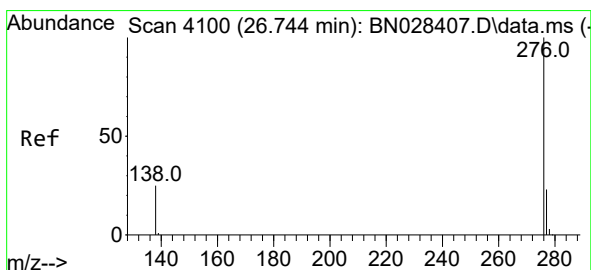
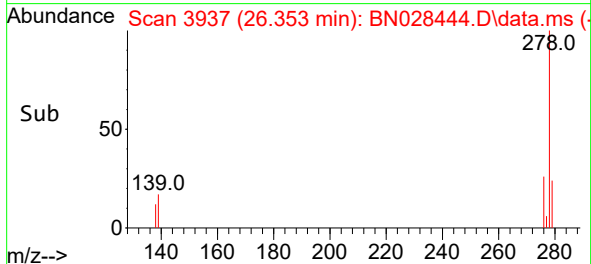
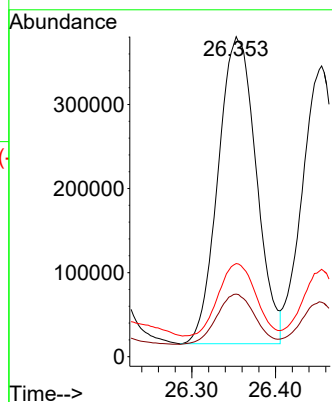
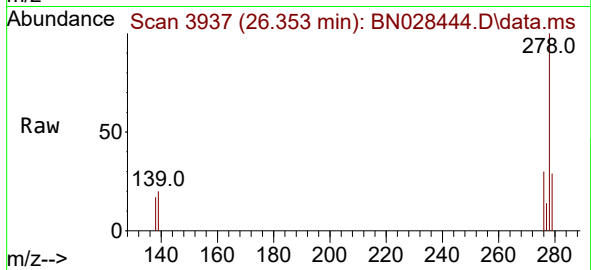
Tgt Ion:278 Resp: 1154536

Ion Ratio Lower Upper

278 100

139 19.5 15.8 23.8

279 29.1 19.7 29.5



#41

Benzo(g,h,i)perylene

Concen: 167.407 ng

RT: 26.821 min Scan# 4097

Delta R.T. 0.077 min

Lab File: BN028444.D

Acq: 03 Nov 2023 05:20

Tgt Ion:276 Resp: 4473941

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.4

138 22.3 21.1 31.7

