

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110222\
 Data File : BN022468.D
 Acq On : 02 Nov 2022 17:39
 Operator : CG/JU
 Sample : N5395-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-5-103122

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/03/2022
 Supervised By : mohammad ahmed 11/07/2022

Quant Time: Nov 03 06:24:55 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 02 05:31:40 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.928	152	3706	0.400	ng	0.00
7) Naphthalene-d8	10.752	136	10418	0.400	ng	# 0.00
13) Acenaphthene-d10	14.600	164	5017	0.400	ng	0.01
19) Phenanthrene-d10	17.350	188	9020	0.400	ng	0.00
29) Chrysene-d12	21.555	240	7427	0.400	ng	# 0.00
35) Perylene-d12	24.005	264	6122	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.465	112	2342	0.237	ng	0.00
5) Phenol-d6	7.090	99	2722	0.220	ng	0.00
8) Nitrobenzene-d5	9.097	82	2057	0.228	ng	-0.01
11) 2-Methylnaphthalene-d10	12.346	152	2630	0.161	ng	0.00
14) 2,4,6-Tribromophenol	16.096	330	512	0.237	ng	0.00
15) 2-Fluorobiphenyl	13.221	172	3831	0.179	ng	0.00
27) Fluoranthene-d10	19.390	212	3164	0.127	ng	0.00
31) Terphenyl-d14	19.989	244	2856	0.148	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.350	93	1169	0.098	ng	91
9) Naphthalene	10.806	128	60066	1.928	ng	98
16) Acenaphthylene	14.322	152	24597	1.012	ng	99
17) Acenaphthene	14.664	154	8043	0.485	ng	98
18) Fluorene	15.648	166	14569	0.631	ng	98
25) Phenanthrene	17.387	178	120697	3.902	ng	100
26) Anthracene	17.487	178	40410	1.551	ng	99
28) Fluoranthene	19.420	202	188226	5.613	ng	99
30) Pyrene	19.787	202	187734	5.493	ng	97
32) Benzo(a)anthracene	21.537	228	88847	3.039	ng	96
33) Chrysene	21.591	228	76839	2.514	ng	96
34) Bis(2-ethylhexyl)phtha...	21.457	149	8958	0.436	ng	# 90
36) Indeno(1,2,3-cd)pyrene	26.569	276	37354	1.235	ng	# 91
37) Benzo(b)fluoranthene	23.254	252	106243	3.791	ng	99
38) Benzo(k)fluoranthene	23.301	252	35470m	1.273	ng	
39) Benzo(a)pyrene	23.894	252	66652m	2.923	ng	
40) Dibenzo(a,h)anthracene	26.587	278	9738	0.412	ng	# 62
41) Benzo(g,h,i)perylene	27.368	276	37746	1.515	ng	98

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

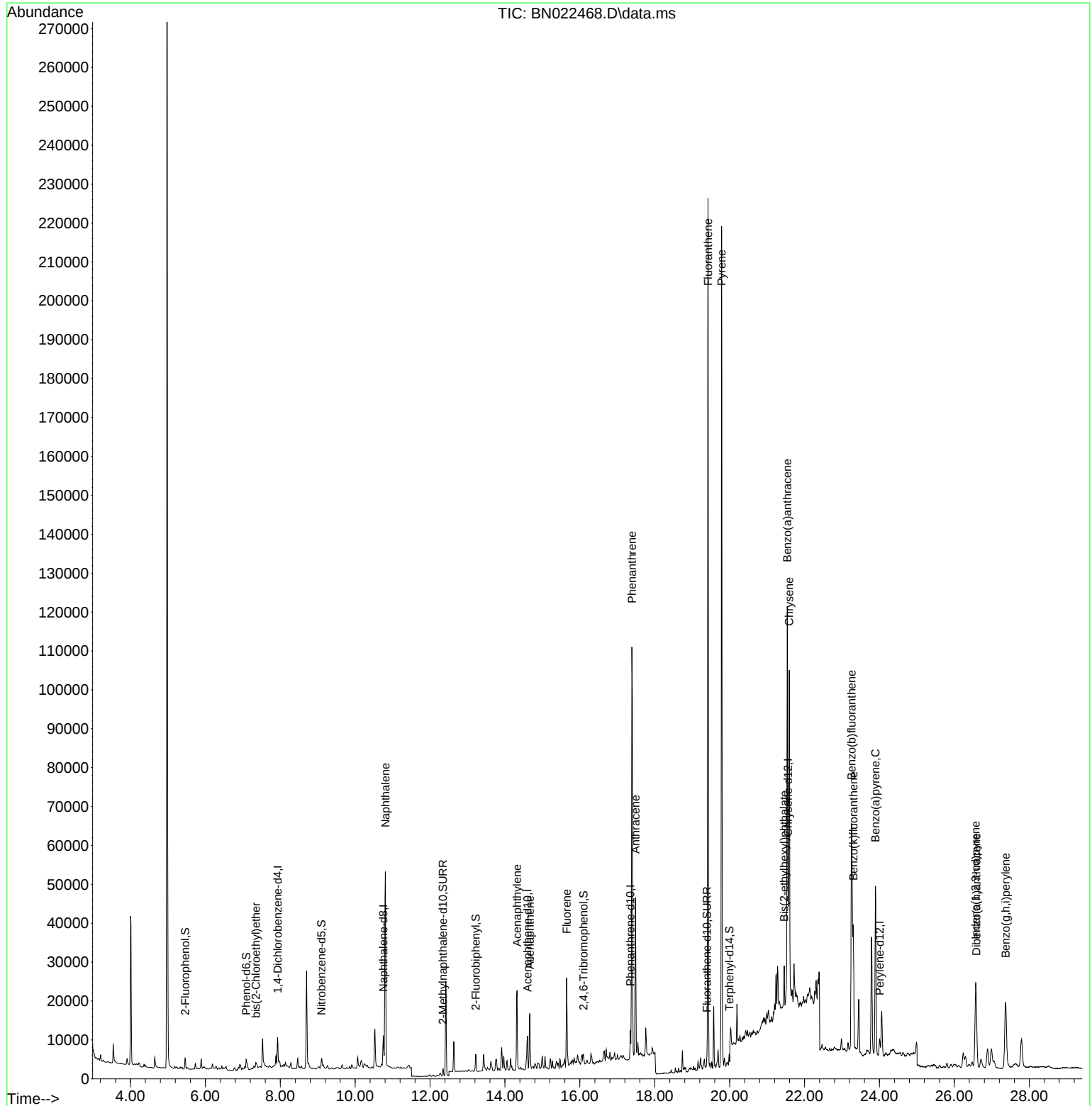
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110222\
Data File : BN022468.D
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ALS Vial : 12 Sample Multiplier: 1

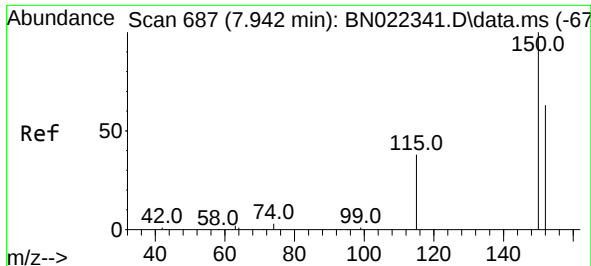
Instrument :
BNA_N
ClientSampleId :
S-5-103122

Quant Time: Nov 03 06:24:55 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 02 05:31:40 2022
Response via : Initial Calibration

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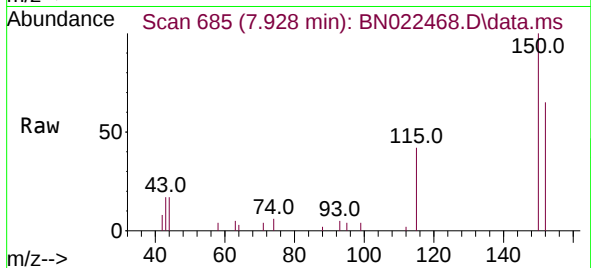
Reviewed By : Christian Giraldo 11/03/2022
Supervised By : mohammad ahmed 11/07/2022





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.928 min Scan# 687
Delta R.T. -0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

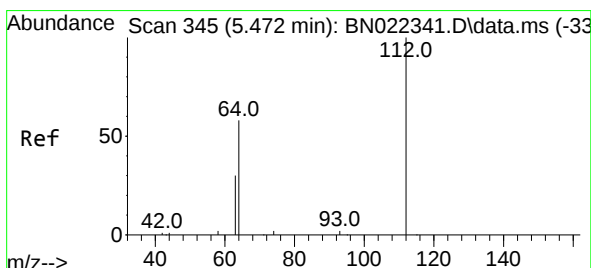
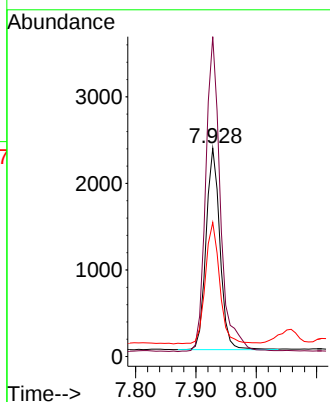
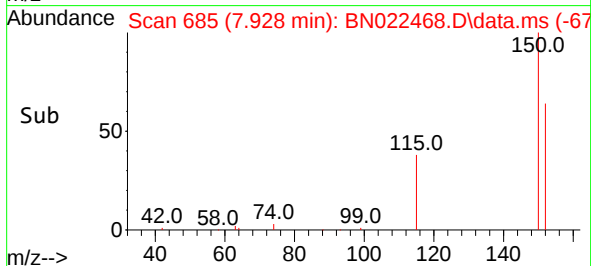
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:152 Resp: 3700
Ion Ratio Lower Upper
152 100
150 153.6 125.2 187.8
115 64.4 52.0 78.0

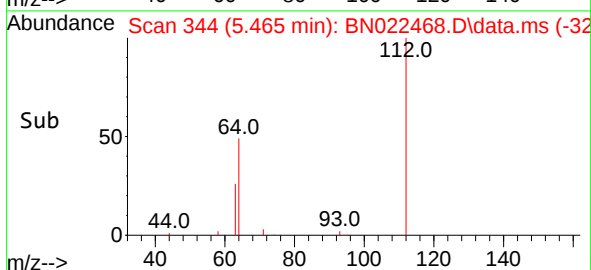
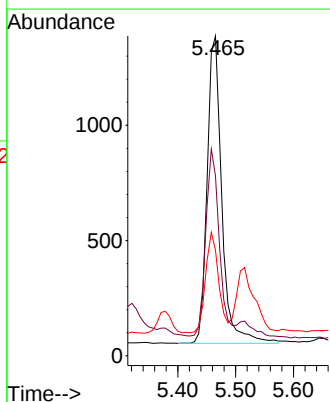
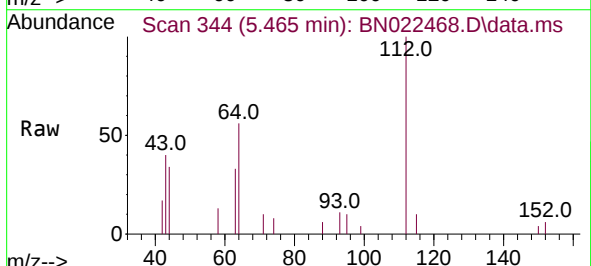
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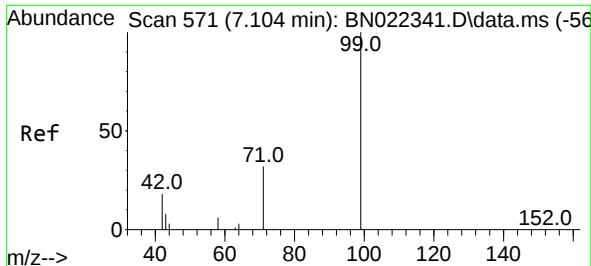
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#4
2-Fluorophenol
Concen: 0.237 ng
RT: 5.465 min Scan# 344
Delta R.T. 0.007 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

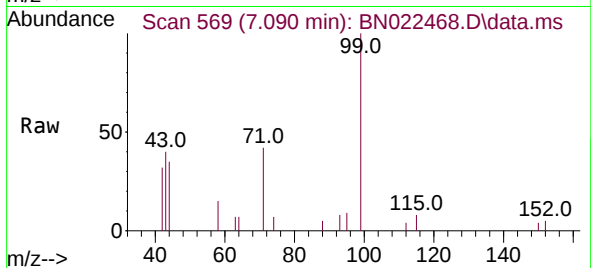
Tgt Ion:112 Resp: 2342
Ion Ratio Lower Upper
112 100
64 55.1 47.0 70.4
63 29.1 24.5 36.7





#5
Phenol-d6
Concen: 0.220 ng
RT: 7.090 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

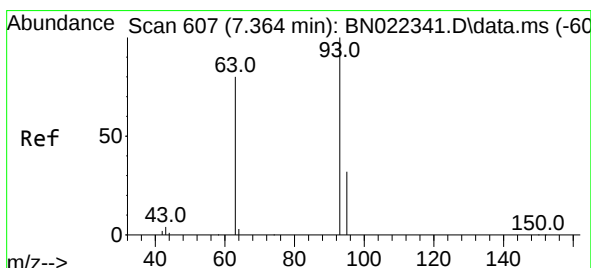
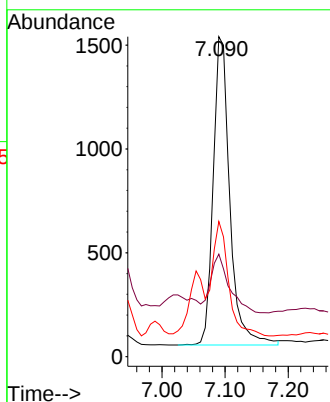
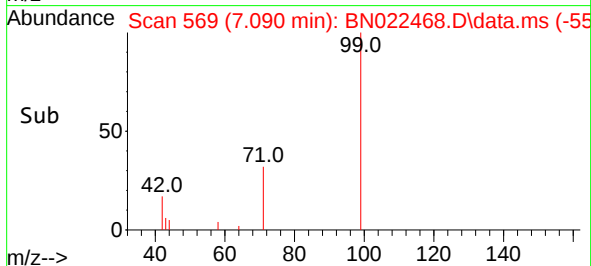
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion: 99 Resp: 272
Ion Ratio Lower Upper
99 100
42 21.2 16.3 24.5
71 36.3 26.1 39.1

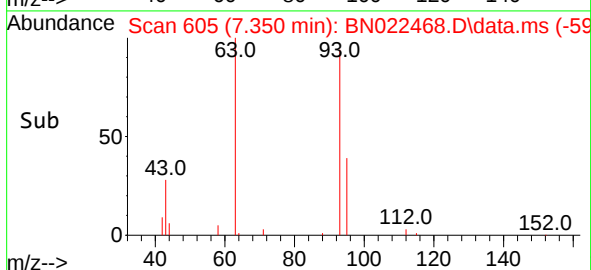
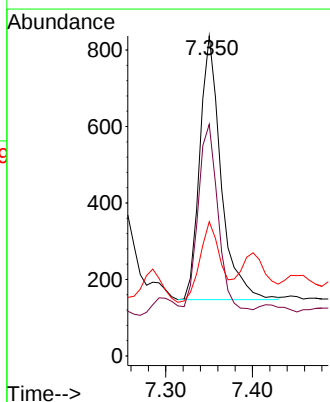
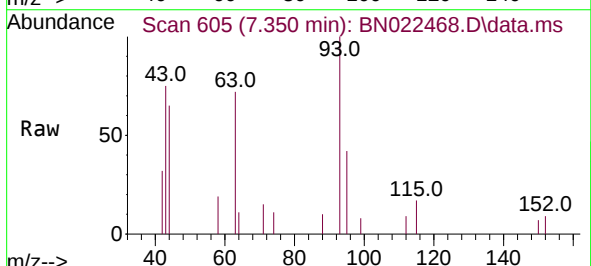
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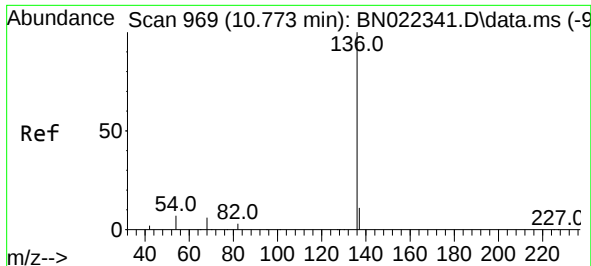
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#6
bis(2-Chloroethyl)ether
Concen: 0.098 ng
RT: 7.350 min Scan# 605
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

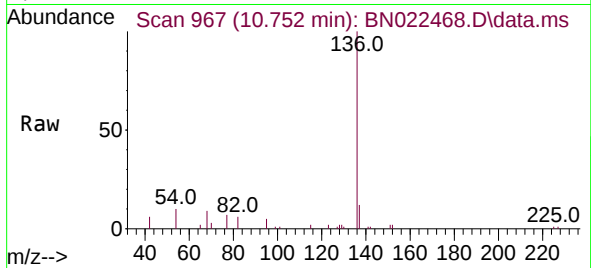
Tgt Ion: 93 Resp: 1169
Ion Ratio Lower Upper
93 100
63 68.7 62.6 93.8
95 29.3 26.1 39.1





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.752 min Scan# 969
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

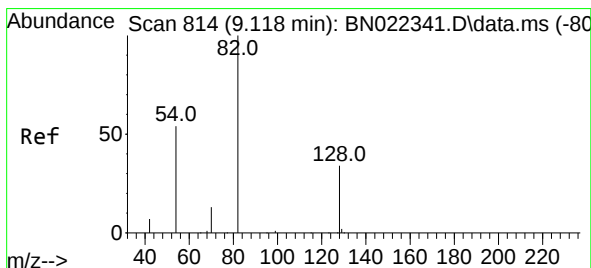
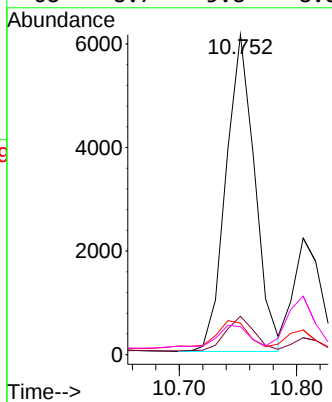
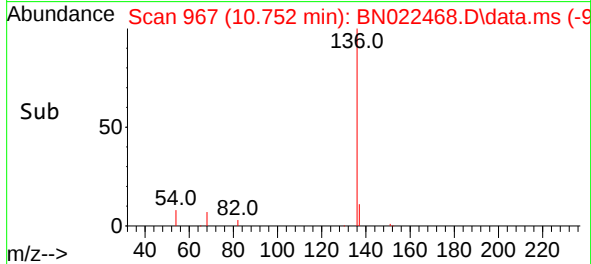
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion: 136 Resp: 10418
Ion Ratio Lower Upper
136 100
137 12.0 9.4 14.2
54 9.8 6.5 9.7
68 8.7 5.8 8.8

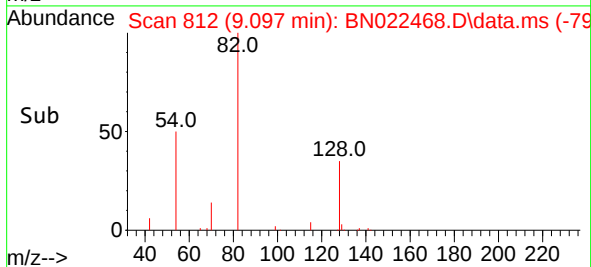
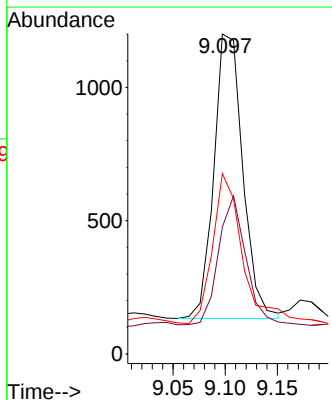
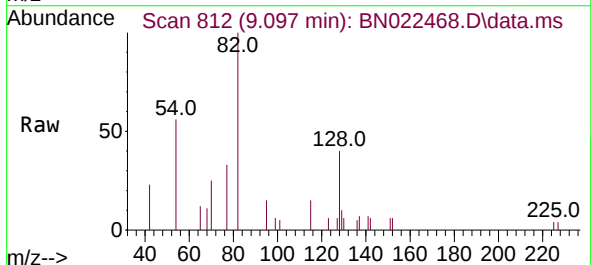
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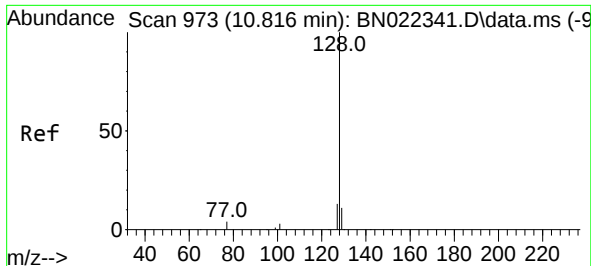
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#8
Nitrobenzene-d5
Concen: 0.228 ng
RT: 9.097 min Scan# 812
Delta R.T. -0.011 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

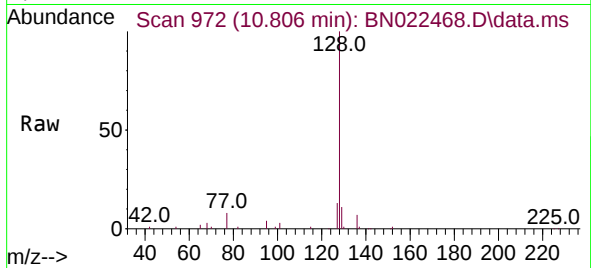
Tgt Ion: 82 Resp: 2057
Ion Ratio Lower Upper
82 100
128 39.6 30.5 45.7
54 56.4 45.2 67.8





#9
Naphthalene
Concen: 1.928 ng
RT: 10.806 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

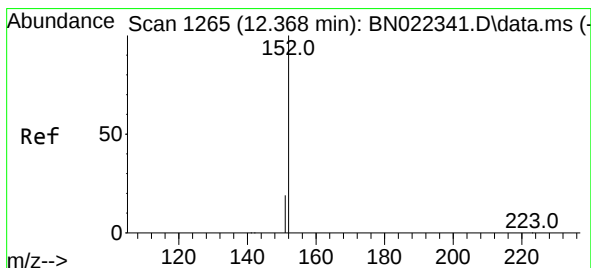
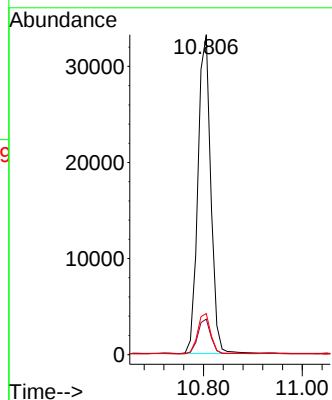
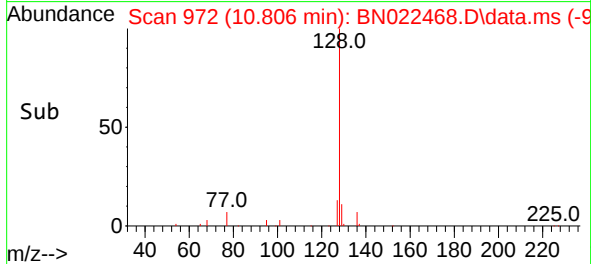
Instrument :
BNA_N
ClientSampleId :
S-5-103122



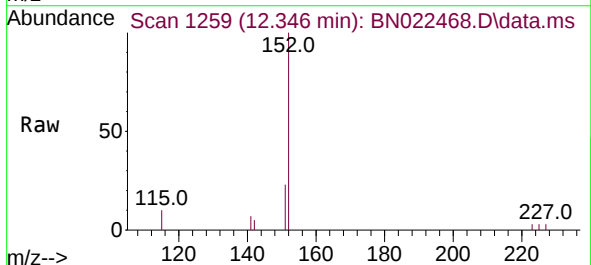
Tgt Ion:128 Resp: 60060
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.2
127 12.8 11.0 16.6

Manual Integrations
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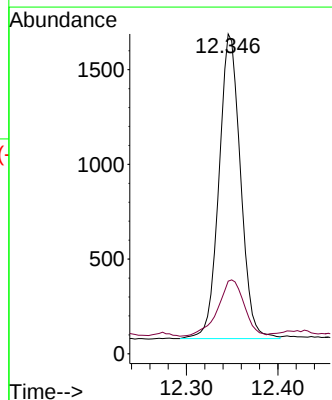
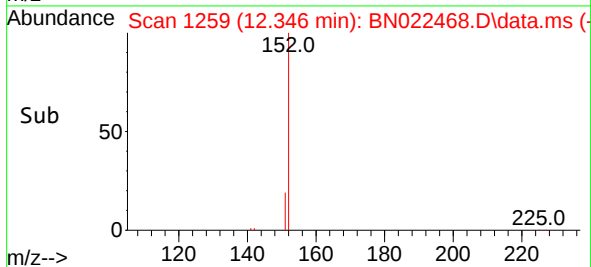
Reviewed By :Christian Giraldo 11/03/2022
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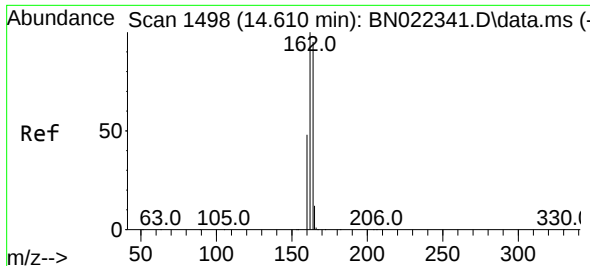


#11
2-Methylnaphthalene-d10
Concen: 0.161 ng
RT: 12.346 min Scan# 1259
Delta R.T. -0.004 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39



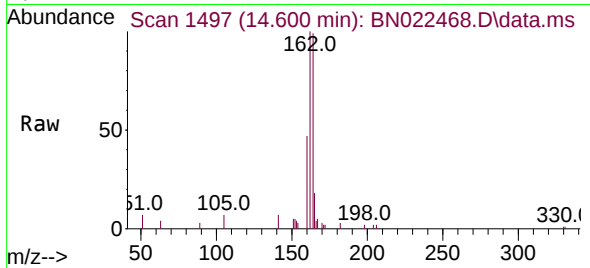
Tgt Ion:152 Resp: 2630
Ion Ratio Lower Upper
152 100
151 22.3 16.7 25.1





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.600 min Scan# 1498
Delta R.T. 0.011 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

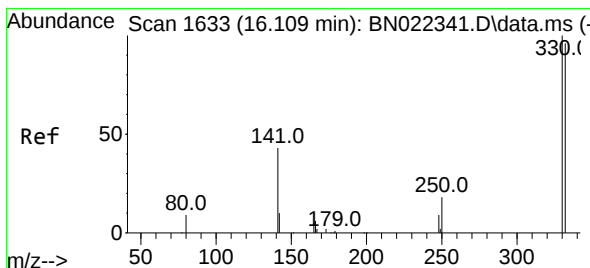
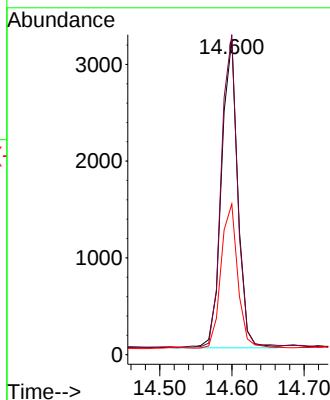
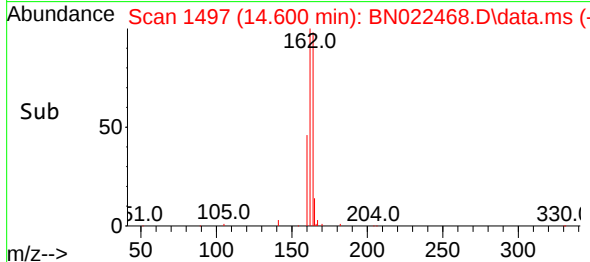
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:164 Resp: 501
Ion Ratio Lower Upper
164 100
162 101.4 83.9 125.9
160 47.7 41.0 61.4

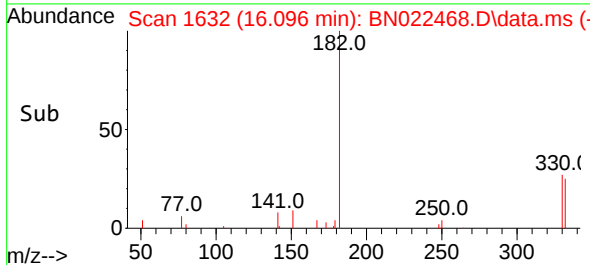
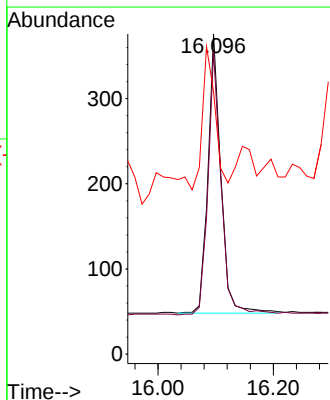
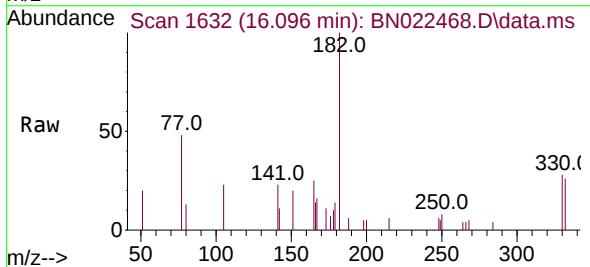
Manual Integrations
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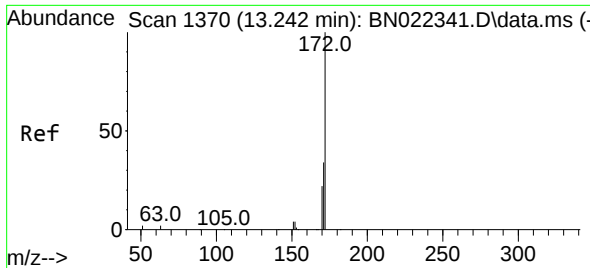
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#14
2,4,6-Tribromophenol
Concen: 0.237 ng
RT: 16.096 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Tgt Ion:330 Resp: 512
Ion Ratio Lower Upper
330 100
332 96.3 78.6 118.0
141 49.8 40.2 60.4





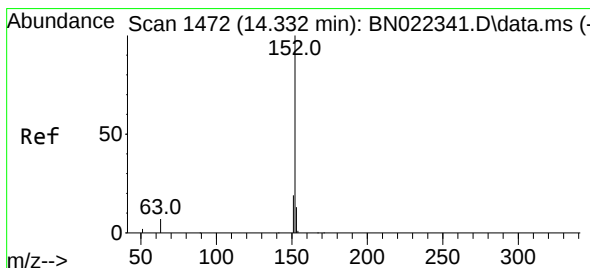
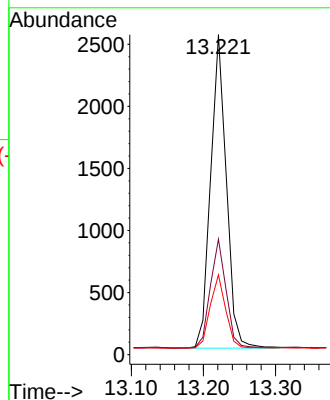
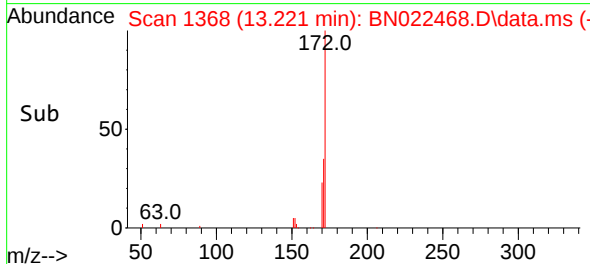
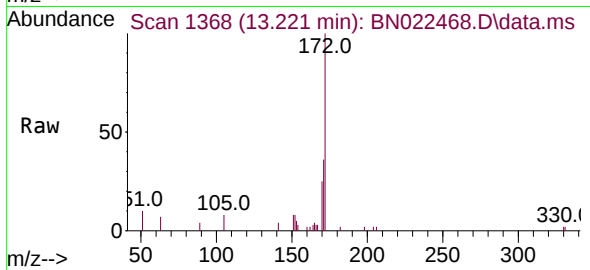
#15
2-Fluorobiphenyl
Concen: 0.179 ng
RT: 13.221 min Scan# 1368
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Instrument :
BNA_N
ClientSampleId :
S-5-103122

Tgt Ion:	172	Resp:	383
Ion Ratio	Lower	Upper	
172	100		
171	36.1	27.4	41.0
170	24.9	18.5	27.7

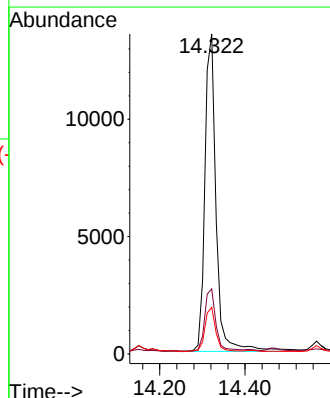
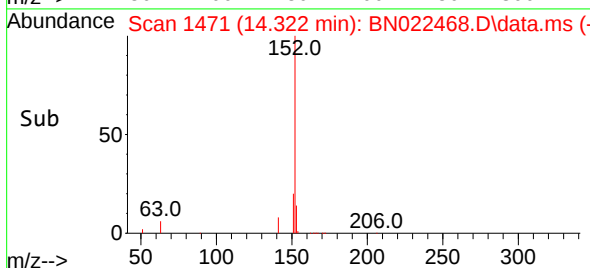
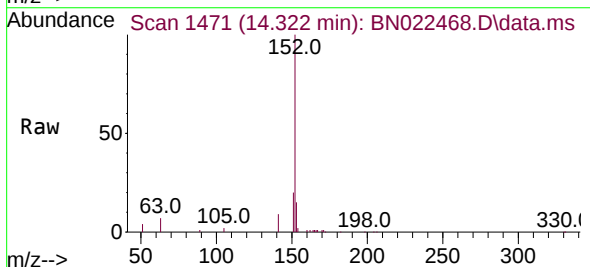
Manual Integrations
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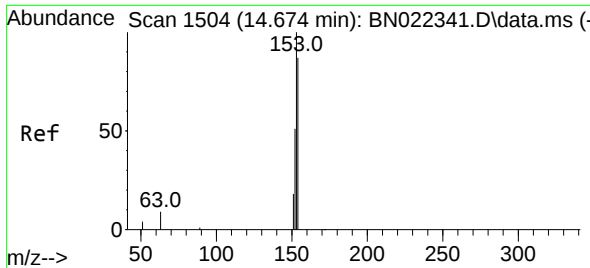
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#16
Acenaphthylene
Concen: 1.012 ng
RT: 14.322 min Scan# 1471
Delta R.T. 0.011 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Tgt Ion:	152	Resp:	24597
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.2	22.8
153	13.5	10.3	15.5





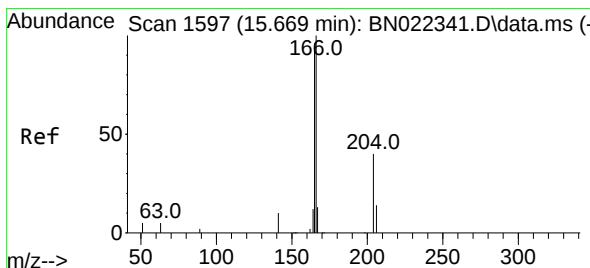
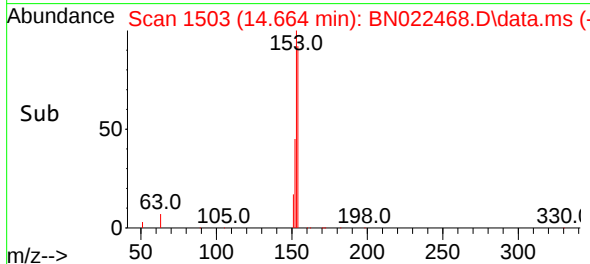
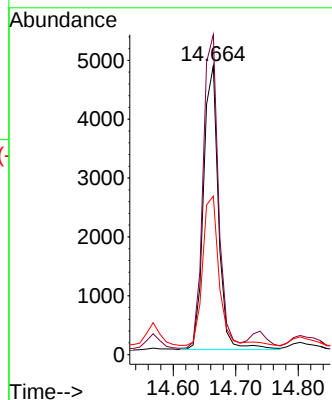
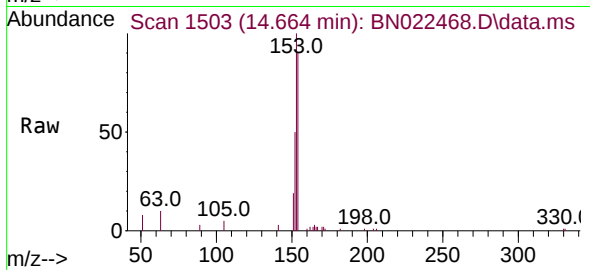
#17
Acenaphthene
Concen: 0.485 ng
RT: 14.664 min Scan# 1503
Delta R.T. 0.011 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Instrument :
BNA_N
ClientSampleId :
S-5-103122

Tgt Ion:154 Resp: 8043
Ion Ratio Lower Upper
154 100
153 112.8 92.2 138.2
152 57.8 47.6 71.4

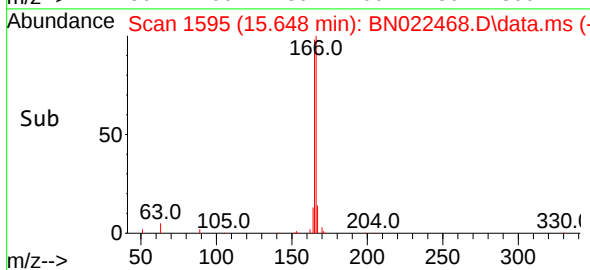
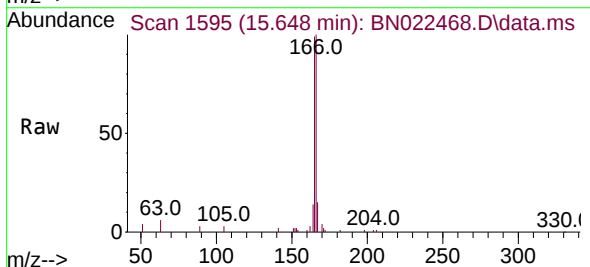
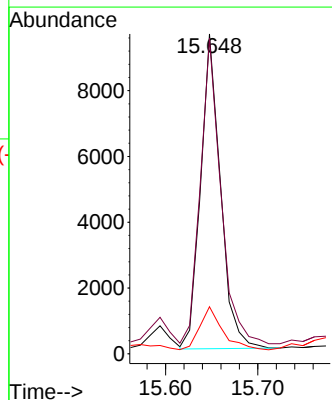
Manual Integrations
APPROVED

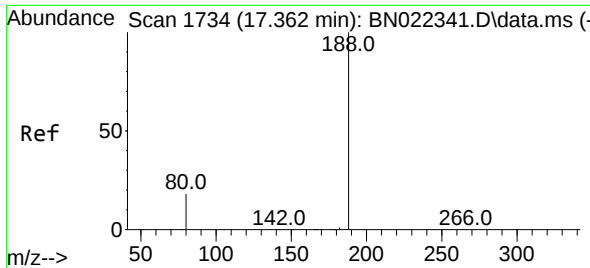
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#18
Fluorene
Concen: 0.631 ng
RT: 15.648 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Tgt Ion:166 Resp: 14569
Ion Ratio Lower Upper
166 100
165 99.2 78.6 118.0
167 15.3 10.2 15.4





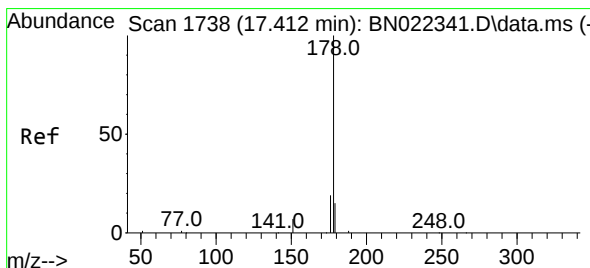
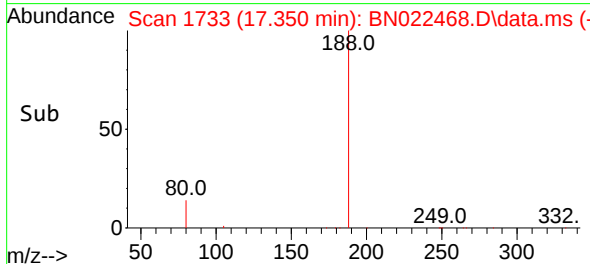
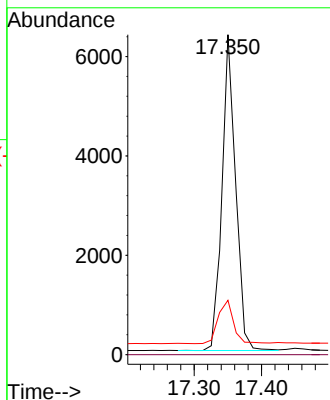
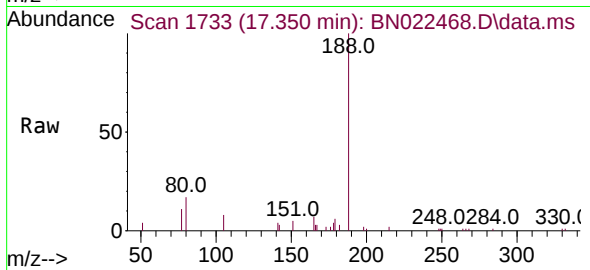
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.350 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Instrument :
BNA_N
ClientSampleId :
S-5-103122

Tgt Ion:188 Resp: 9020
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.0 15.0 22.6

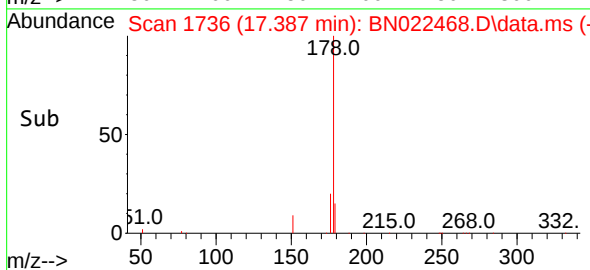
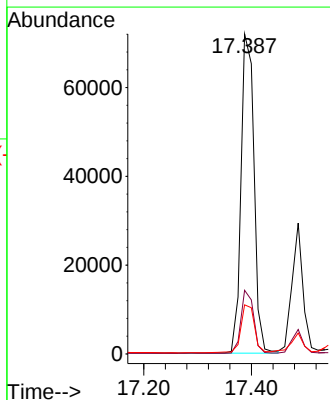
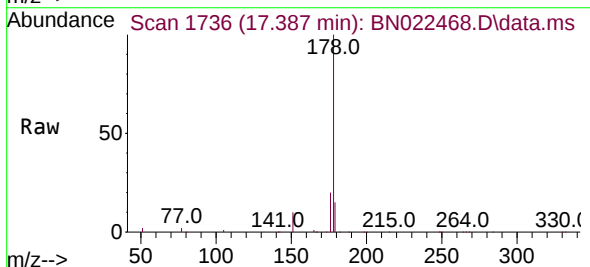
Manual Integrations
APPROVED

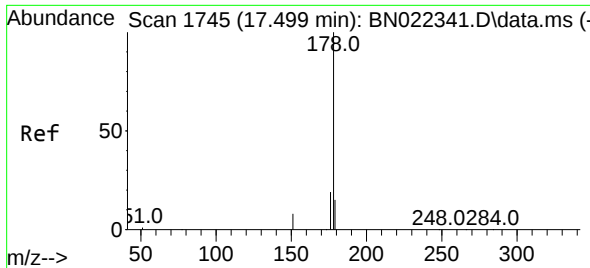
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#25
Phenanthrene
Concen: 3.902 ng
RT: 17.387 min Scan# 1736
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

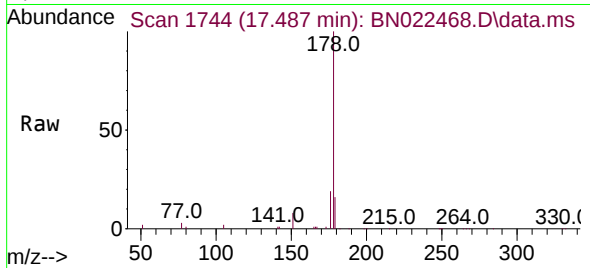
Tgt Ion:178 Resp: 120697
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.7 12.5 18.7





#26
 Anthracene
 Concen: 1.551 ng
 RT: 17.487 min Scan# 1744
 Delta R.T. 0.000 min
 Lab File: BN022468.D
 Acq: 02 Nov 2022 17:39

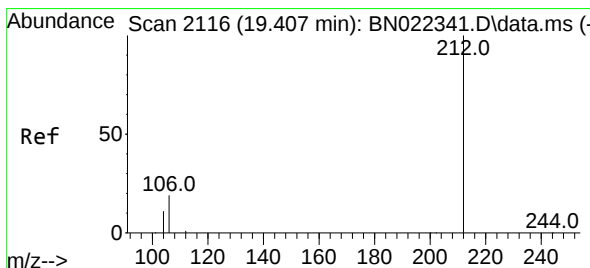
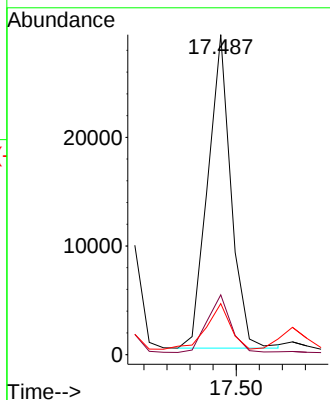
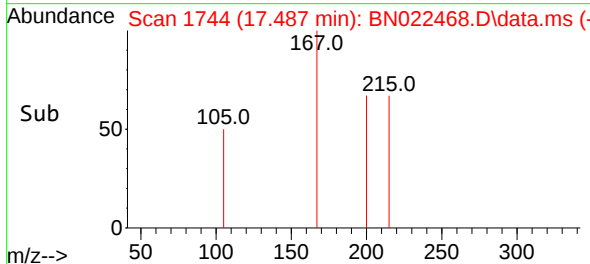
Instrument :
 BNA_N
 ClientSampleId :
 S-5-103122



Tgt Ion:178 Resp: 40410
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.0 22.4
 179 15.0 12.2 18.4

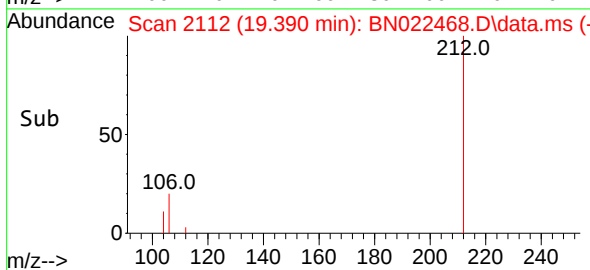
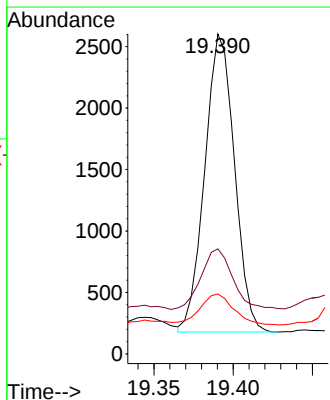
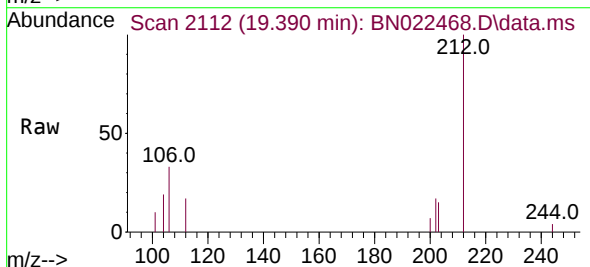
Manual Integrations
 APPROVED

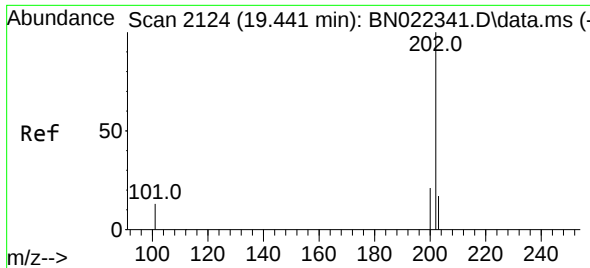
Reviewed By :Christian Giraldo 11/03/2022
 Supervised By :mohammad ahmed 11/07/2022



#27
 Fluoranthene-d10
 Concen: 0.127 ng
 RT: 19.390 min Scan# 2112
 Delta R.T. 0.000 min
 Lab File: BN022468.D
 Acq: 02 Nov 2022 17:39

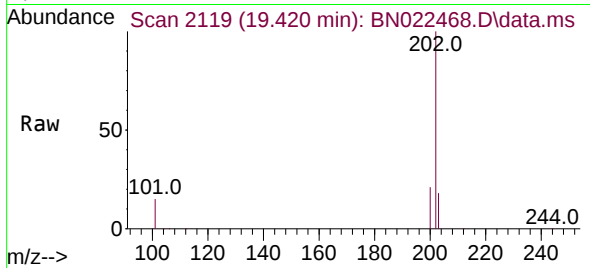
Tgt Ion:212 Resp: 3164
 Ion Ratio Lower Upper
 212 100
 106 21.7 15.0 22.4
 104 12.3 9.3 13.9





#28
Fluoranthene
Concen: 5.613 ng
RT: 19.420 min Scan# 2119
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

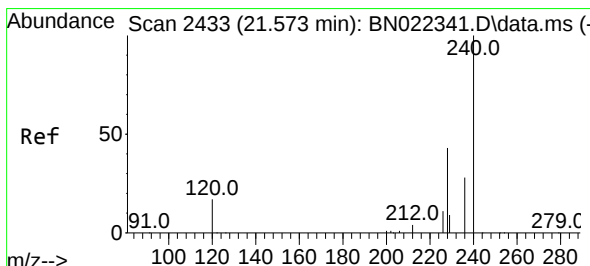
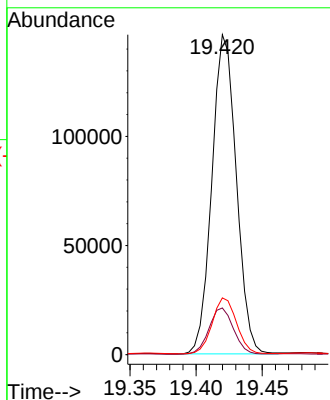
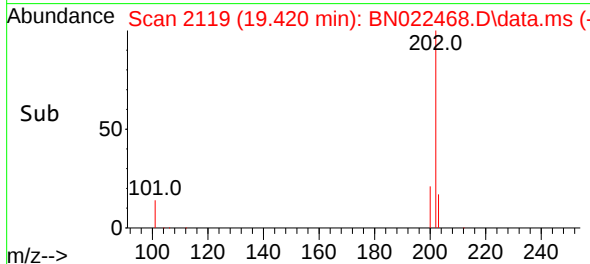
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:202 Resp: 188226
Ion Ratio Lower Upper
202 100
101 14.5 11.4 17.0
203 17.4 13.7 20.5

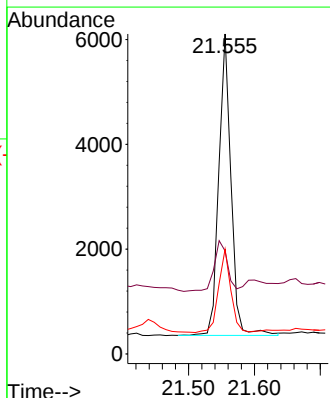
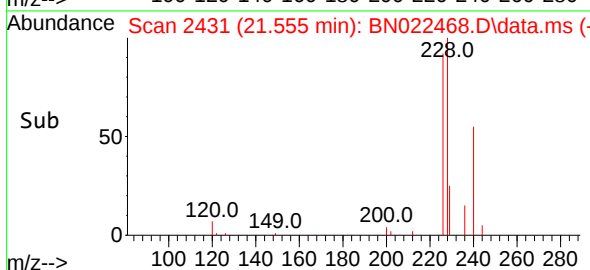
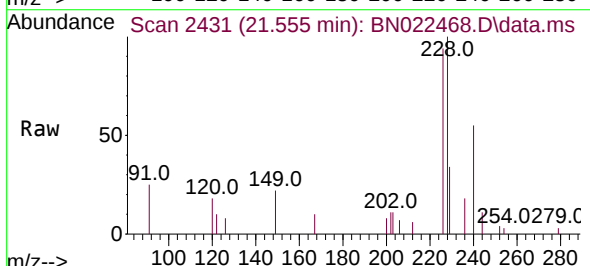
Manual Integrations
APPROVED

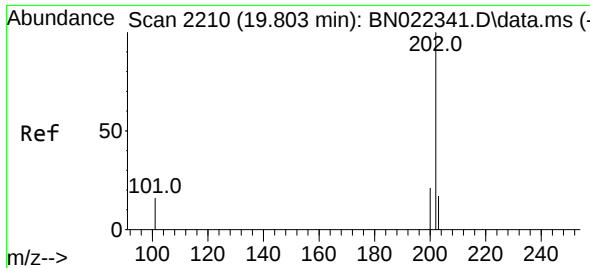
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.555 min Scan# 2431
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

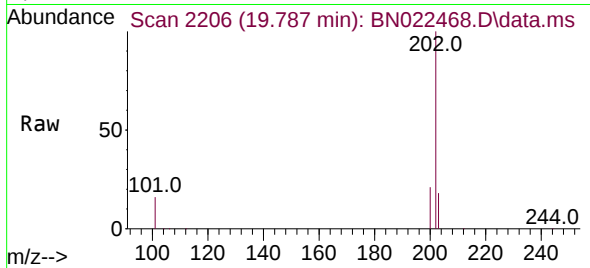
Tgt Ion:240 Resp: 7427
Ion Ratio Lower Upper
240 100
120 32.2 15.8 23.6#
236 32.7 23.2 34.8





#30
Pyrene
Concen: 5.493 ng
RT: 19.787 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

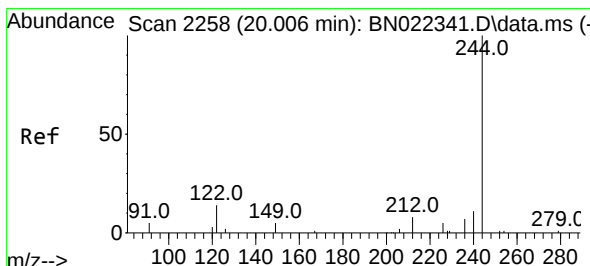
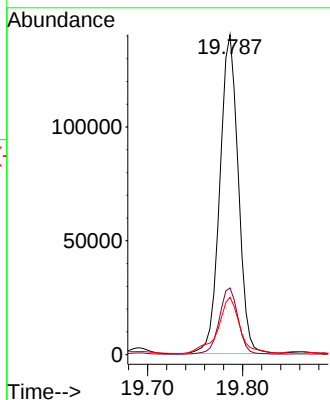
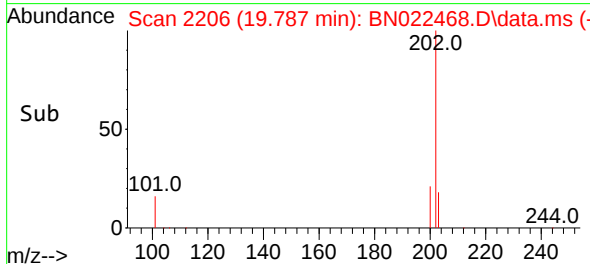
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:202 Resp: 187734
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 20.8 14.2 21.2

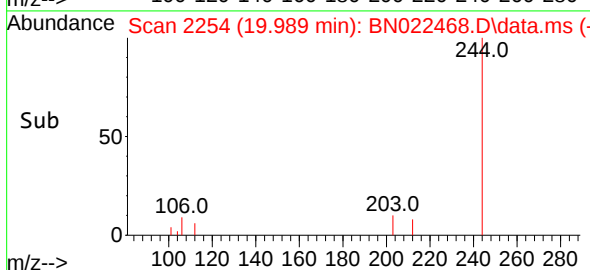
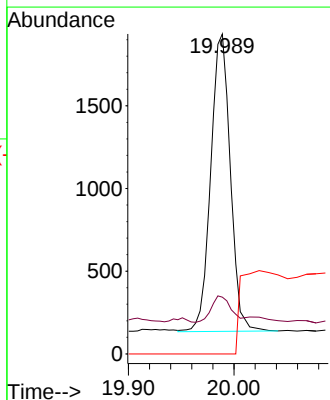
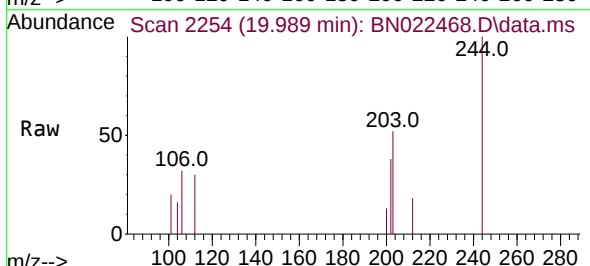
Manual Integrations
APPROVED

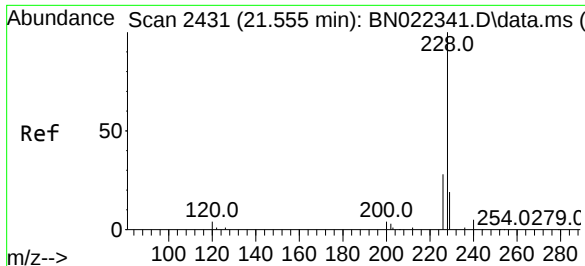
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#31
Terphenyl-d14
Concen: 0.148 ng
RT: 19.989 min Scan# 2254
Delta R.T. 0.004 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

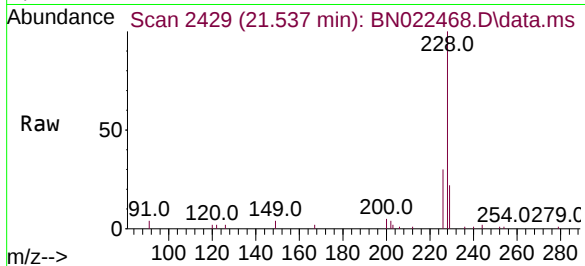
Tgt Ion:244 Resp: 2856
Ion Ratio Lower Upper
244 100
212 17.7 7.0 10.4#
122 0.0 11.5 17.3#





#32
Benzo(a)anthracene
Concen: 3.039 ng
RT: 21.537 min Scan# 2429
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

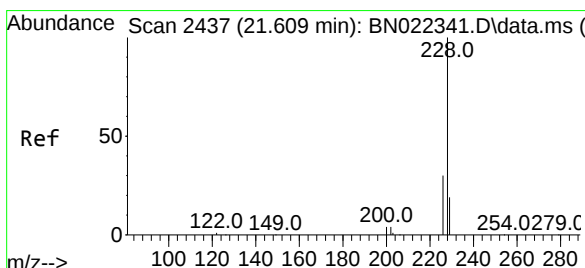
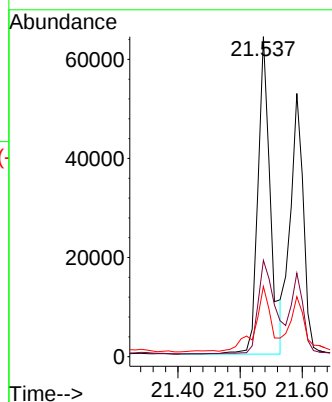
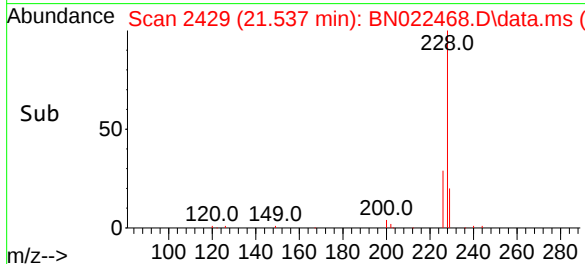
Instrument :
BNA_N
ClientSampleId :
S-5-103122



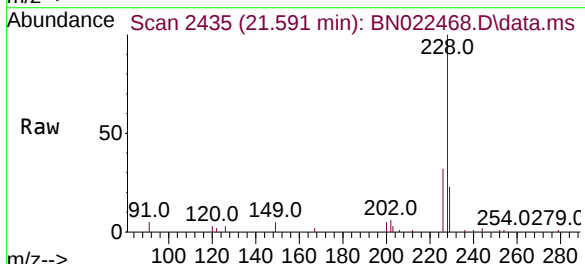
Tgt Ion:228 Resp: 8884
Ion Ratio Lower Upper
228 100
226 30.1 22.6 34.0
229 21.9 15.5 23.3

Manual Integrations
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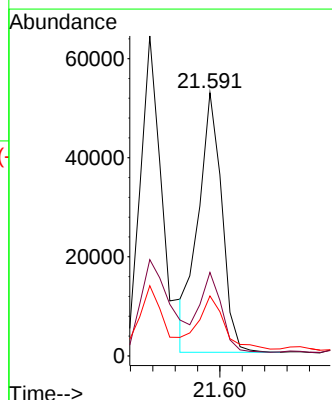
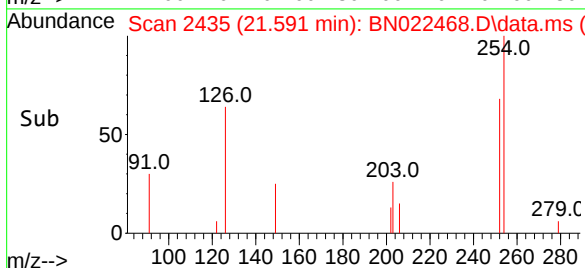
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022

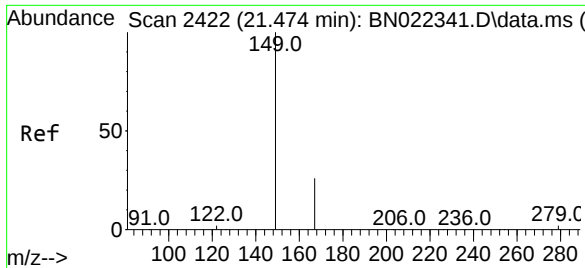


#33
Chrysene
Concen: 2.514 ng
RT: 21.591 min Scan# 2435
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39



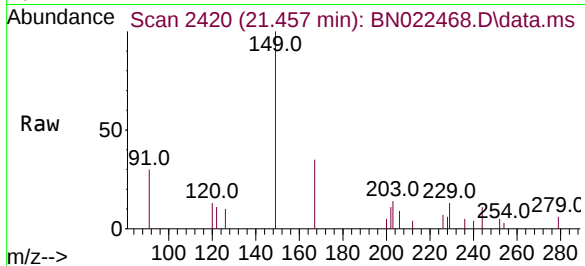
Tgt Ion:228 Resp: 76839
Ion Ratio Lower Upper
228 100
226 31.7 24.5 36.7
229 22.8 15.6 23.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.457 min Scan# 2422
Delta R.T. 0.009 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

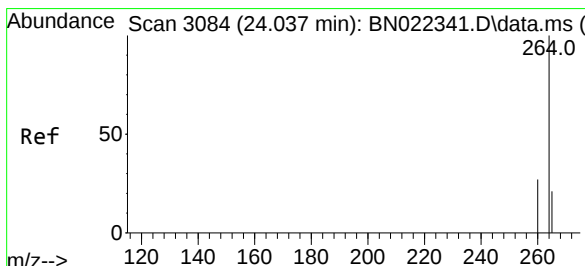
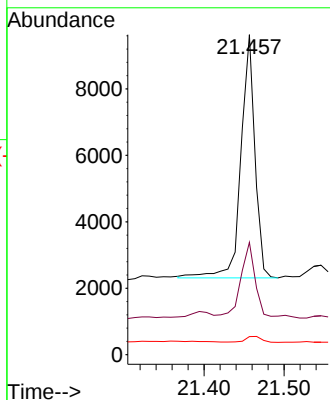
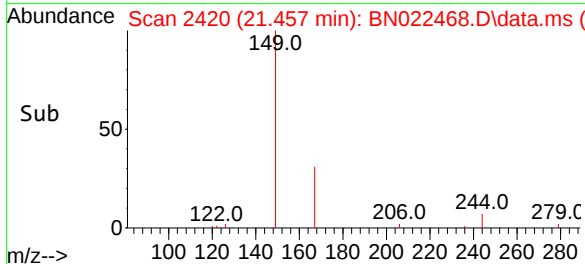
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:149 Resp: 8958
Ion Ratio Lower Upper
149 100
167 30.8 20.2 30.4
279 2.7 2.3 3.5

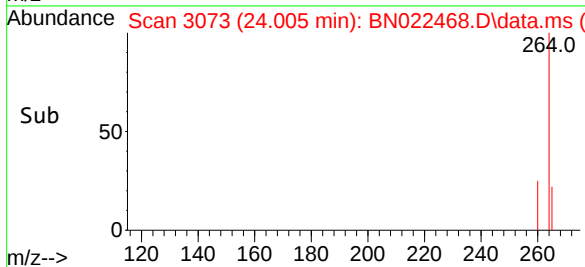
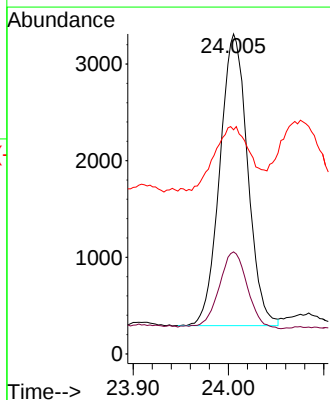
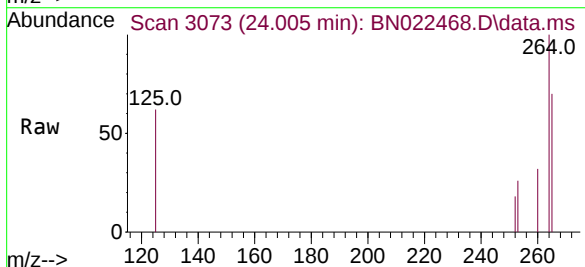
Manual Integrations
APPROVED

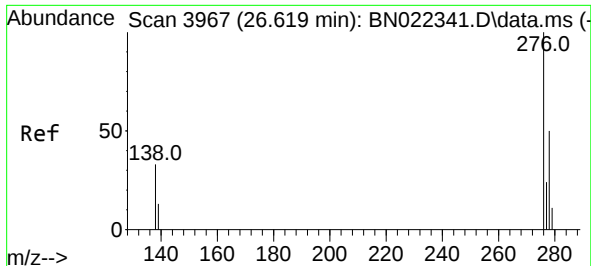
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#35
Perylene-d12
Concen: 0.400 ng
RT: 24.005 min Scan# 3073
Delta R.T. 0.003 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

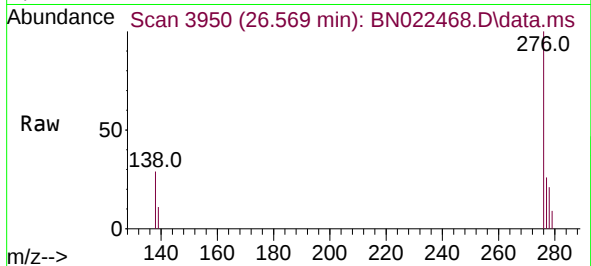
Tgt Ion:264 Resp: 6122
Ion Ratio Lower Upper
264 100
260 31.9 22.1 33.1
265 70.0 53.0 79.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 1.235 ng
RT: 26.569 min Scan# 3967
Delta R.T. 0.003 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

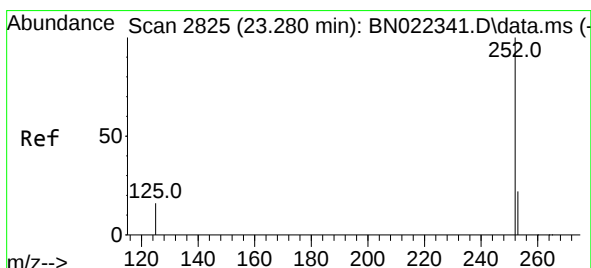
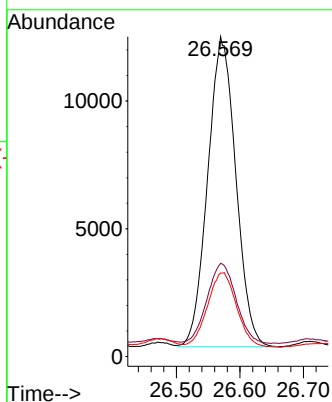
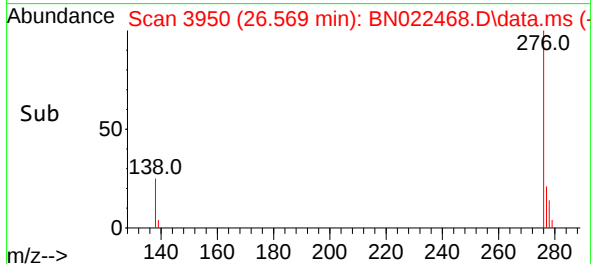
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:276 Resp: 37354
Ion Ratio Lower Upper
276 100
138 26.6 28.2 42.2
277 25.0 19.7 29.5

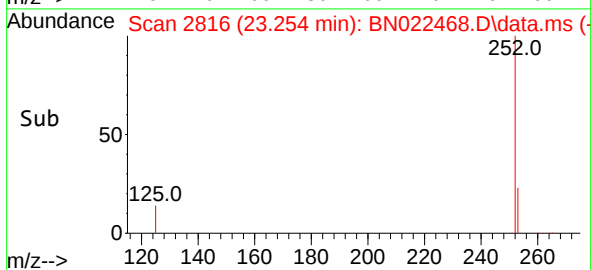
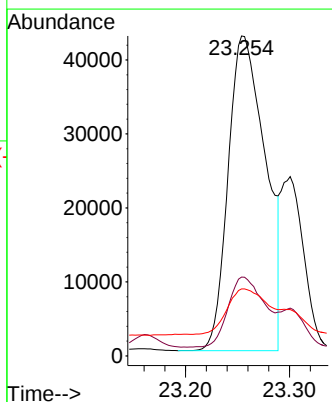
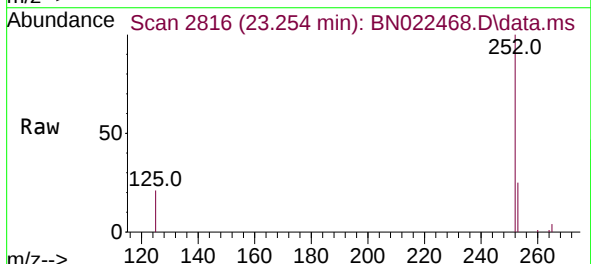
Manual Integrations
APPROVED

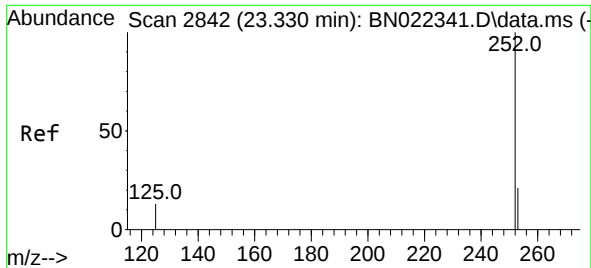
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#37
Benzo(b)fluoranthene
Concen: 3.791 ng
RT: 23.254 min Scan# 2816
Delta R.T. 0.006 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

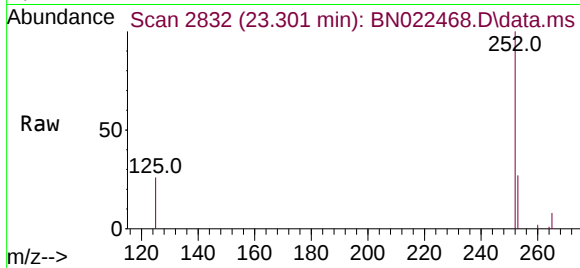
Tgt Ion:252 Resp: 106243
Ion Ratio Lower Upper
252 100
253 24.6 20.4 30.6
125 20.9 16.6 25.0





#38
Benzo(k)fluoranthene
Concen: 1.273 ng m
RT: 23.301 min Scan# 2842
Delta R.T. 0.003 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

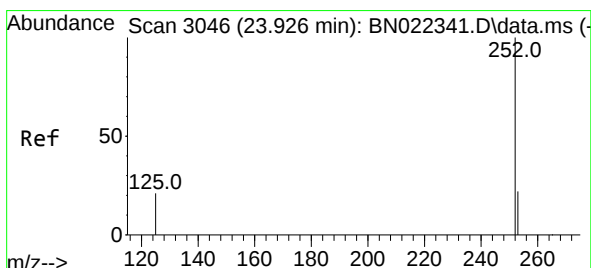
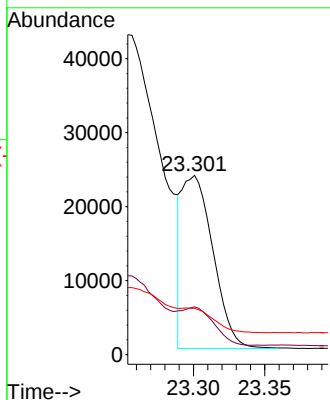
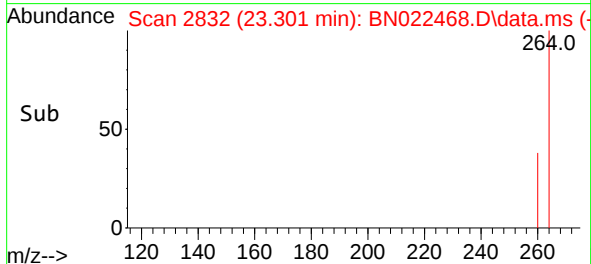
Instrument :
BNA_N
ClientSampleId :
S-5-103122



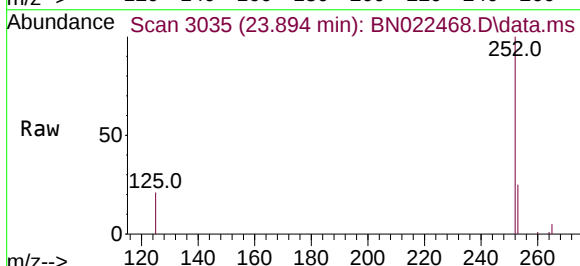
Tgt Ion:252 Resp: 35470
Ion Ratio Lower Upper
252 100
253 26.6 19.8 29.8
125 25.8 15.0 22.6

Manual Integrations
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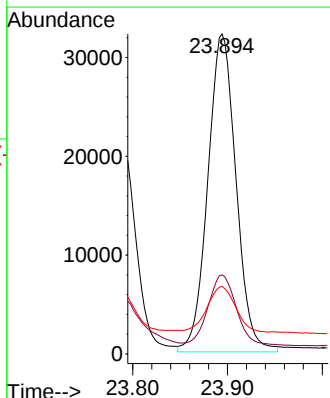
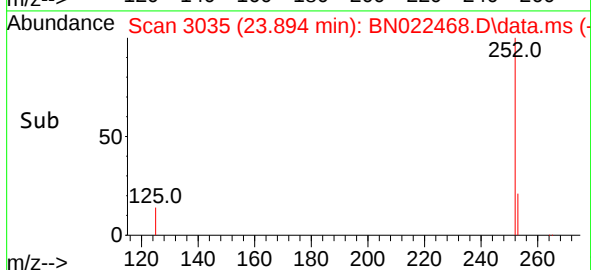
Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022

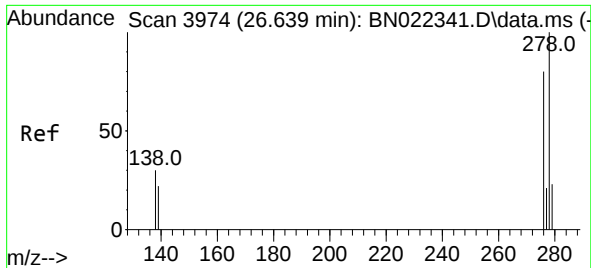


#39
Benzo(a)pyrene
Concen: 2.923 ng m
RT: 23.894 min Scan# 3035
Delta R.T. 0.003 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39



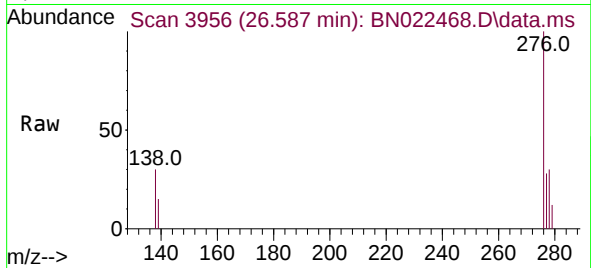
Tgt Ion:252 Resp: 66652
Ion Ratio Lower Upper
252 100
253 24.7 21.9 32.9
125 21.1 22.9 34.3





#40
Dibenzo(a,h)anthracene
Concen: 0.412 ng
RT: 26.587 min Scan# 3974
Delta R.T. 0.000 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

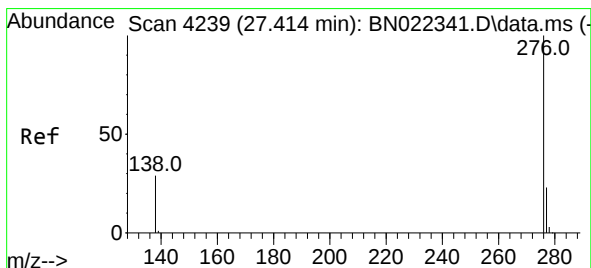
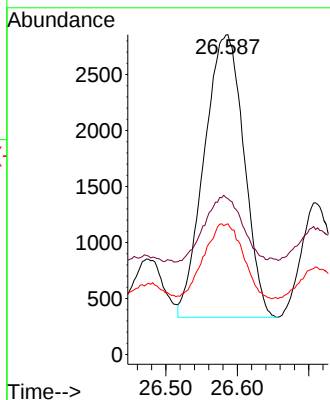
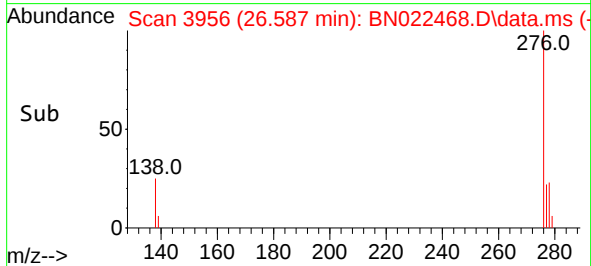
Instrument :
BNA_N
ClientSampleId :
S-5-103122



Tgt Ion:278 Resp: 9738
Ion Ratio Lower Upper
278 100
139 48.7 20.2 30.2
279 40.8 21.0 31.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 11/03/2022
Supervised By :mohammad ahmed 11/07/2022



#41
Benzo(g,h,i)perylene
Concen: 1.515 ng
RT: 27.368 min Scan# 4223
Delta R.T. 0.009 min
Lab File: BN022468.D
Acq: 02 Nov 2022 17:39

Tgt Ion:276 Resp: 37746
Ion Ratio Lower Upper
276 100
277 26.2 19.5 29.3
138 30.7 25.0 37.4

