

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092921\
 Data File : BN016574.D
 Acq On : 29 Sep 2021 11:54
 Operator : CG/JU
 Sample : M3945-02 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-815-N-SO-1-1.5-092421-FD

Manual Integrations
 APPROVED

mohammad
 9/30/2021 11:30:43 AM

Quant Time: Sep 29 12:27:13 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN092821.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 29 10:56:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	29178	0.400	ng	0.00
7) Naphthalene-d8	10.419	136	136574	0.400	ng	# 0.00
13) Acenaphthene-d10	14.281	164	75740	0.400	ng	# 0.00
19) Phenanthrene-d10	17.030	188	157043	0.400	ng	# 0.00
29) Chrysene-d12	21.249	240	169310	0.400	ng	0.00
35) Perylene-d12	23.515	264	177296	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	4635	0.064	ng	0.00
5) Phenol-d6	6.840	99	4353	0.060	ng	0.00
8) Nitrobenzene-d5	8.797	82	4419	0.061	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	12414	0.064	ng	0.00
14) 2,4,6-Tribromophenol	15.779	330	2134	0.065	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	15476	0.050	ng	0.00
27) Fluoranthene-d10	19.078	212	25280	0.060	ng	0.00
31) Terphenyl-d14	19.688	244	20323	0.056	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.470	128	13812	0.037	ng	96
12) 2-Methylnaphthalene	12.092	142	6343	0.028	ng	96
16) Acenaphthylene	14.002	152	53948	0.161	ng	99
17) Acenaphthene	14.345	154	24852	0.109	ng	94
18) Fluorene	15.335	166	33311	0.120	ng	97
24) Pentachlorophenol	16.689	266	5425	0.310	ng	99
25) Phenanthrene	17.078	178	697470	1.476	ng	100
26) Anthracene	17.164	178	258825	0.630	ng	97
28) Fluoranthene	19.108	202	1890382	3.661	ng	# 98
30) Pyrene	19.470	202	1575161	2.729	ng	# 95
32) Benzo(a)anthracene	21.227	228	1241023	2.365	ng	# 83
33) Chrysene	21.281	228	2459555	4.595	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.185	149	34048	0.218	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.805	276	520636	0.921	ng	98
37) Benzo(b)fluoranthene	22.834	252	1922220	3.247	ng	# 96
38) Benzo(k)fluoranthene	22.875	252	596654m	1.034	ng	
39) Benzo(a)pyrene	23.416	252	1095975	2.018	ng	# 93
40) Dibenzo(a,h)anthracene	25.809	278	218023	0.555	ng	# 63
41) Benzo(g,h,i)perylene	26.510	276	545577	1.061	ng	# 93

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

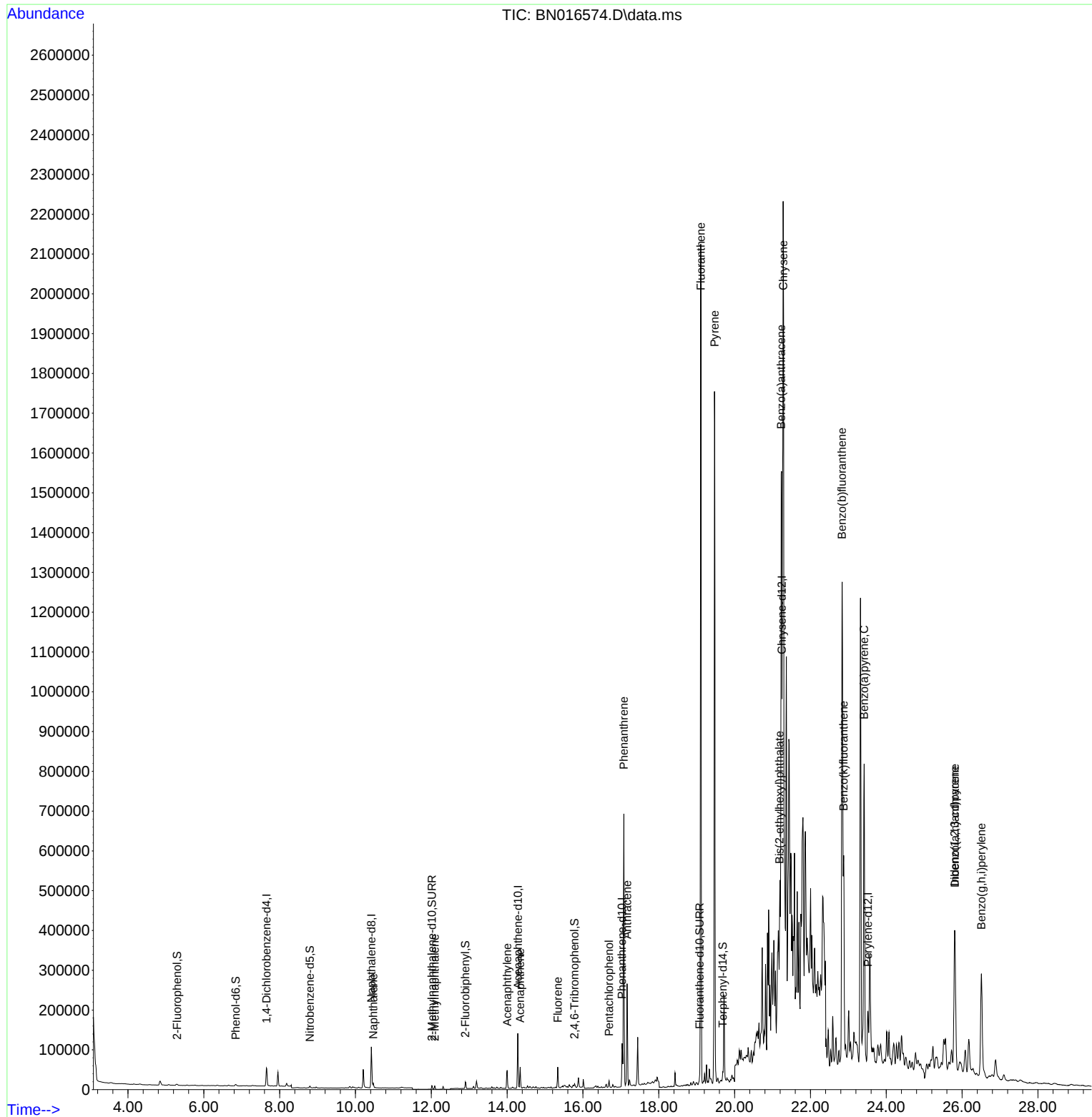
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092921\
Data File : BN016574.D
Acq On : 29 Sep 2021 11:54
Operator : CG/JU
Sample : M3945-02 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

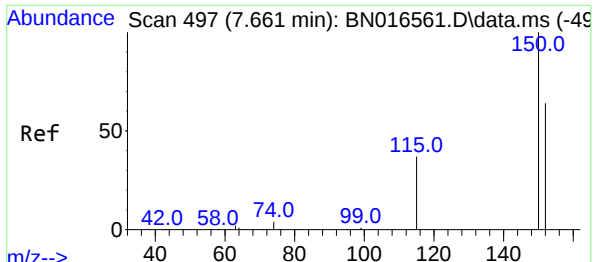
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

Manual Integrations
APPROVED

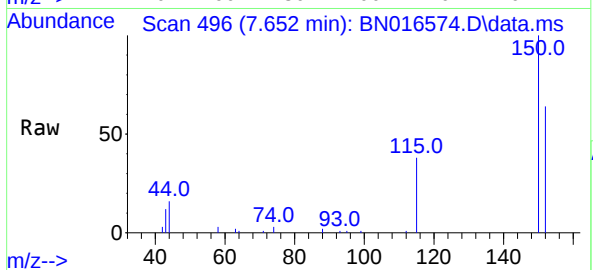
mohammad
9/30/2021 11:30:43 AM

Quant Time: Sep 29 12:27:13 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN092821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 29 10:56:17 2021
Response via : Initial Calibration

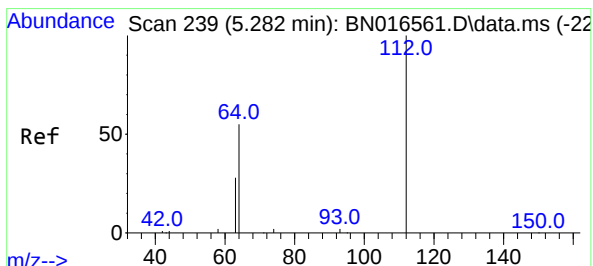
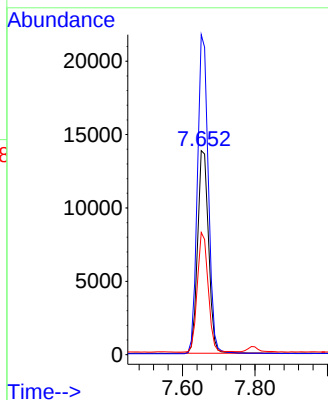
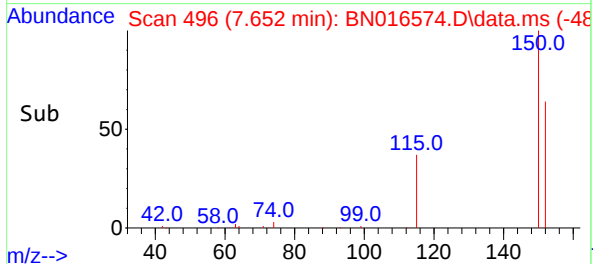




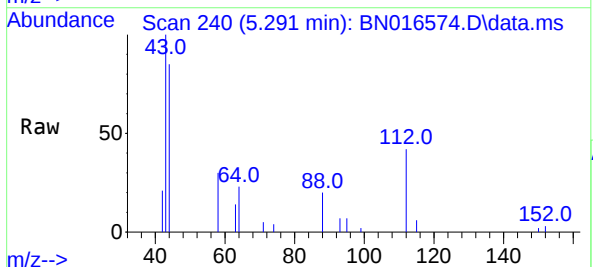
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.652 min Scan# 496
Delta R.T. -0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



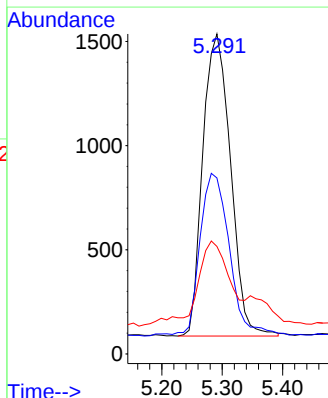
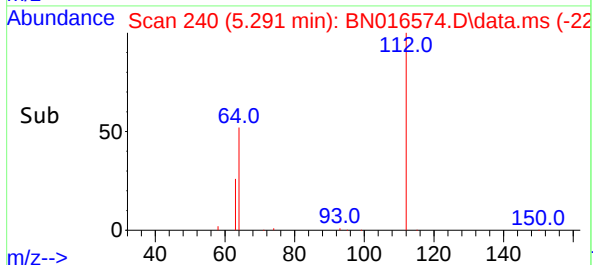
Tgt Ion:152 Resp: 29178
Ion Ratio Lower Upper
152 100
150 156.9 125.1 187.7
115 60.0 45.8 68.8



#4
2-Fluorophenol
Concen: 0.064 ng
RT: 5.291 min Scan# 240
Delta R.T. 0.009 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



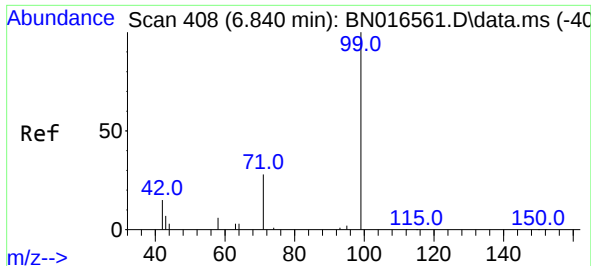
Tgt Ion:112 Resp: 4635
Ion Ratio Lower Upper
112 100
64 55.2 48.4 72.6
63 27.4 25.4 38.2



Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

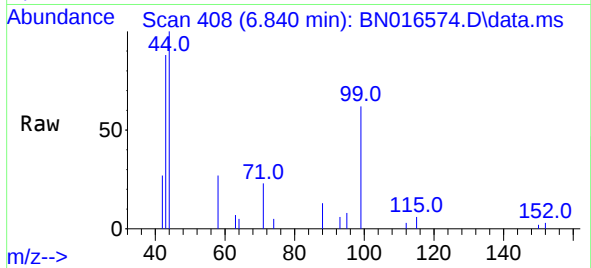
Manual Integrations
APPROVED

mohammad
9/30/2021 11:30:43 AM



#5
Phenol-d6
Concen: 0.060 ng
RT: 6.840 min Scan# 408
Delta R.T. 0.009 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

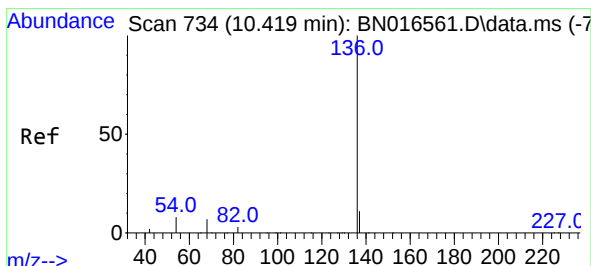
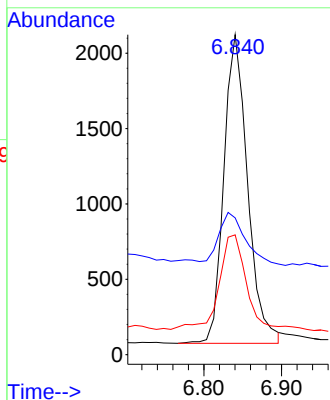
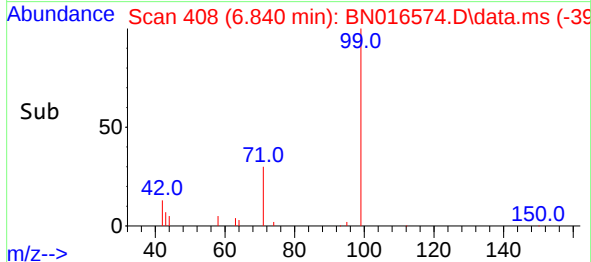
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



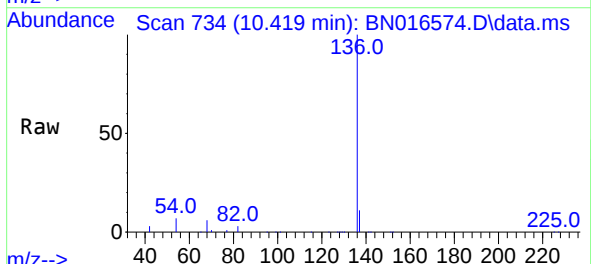
Tgt Ion: 99 Resp: 4353
Ion Ratio Lower Upper
99 100
42 18.2 19.6 29.4#
71 34.2 24.2 36.2

Manual Integrations
APPROVED

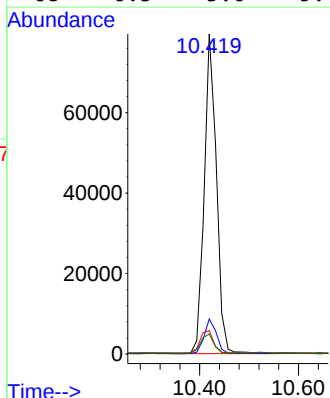
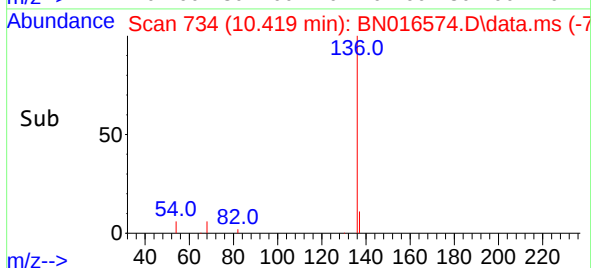
mohammad
9/30/2021 11:30:43 AM

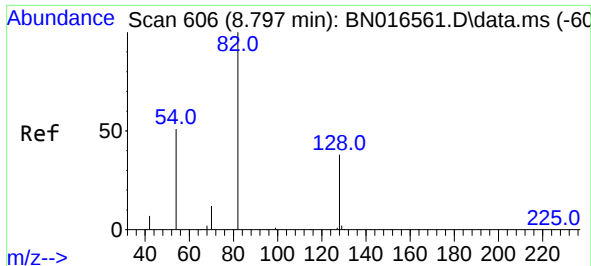


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.419 min Scan# 734
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



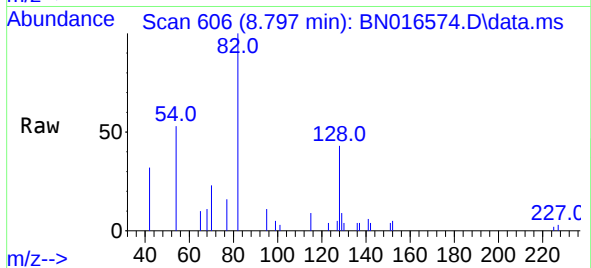
Tgt Ion: 136 Resp: 136574
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.3 5.8 8.6
68 6.3 3.6 5.4#





#8
Nitrobenzene-d5
Concen: 0.061 ng
RT: 8.797 min Scan# 606
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

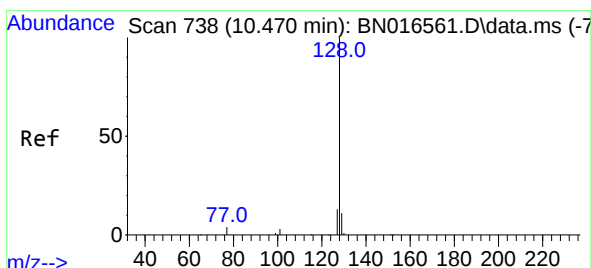
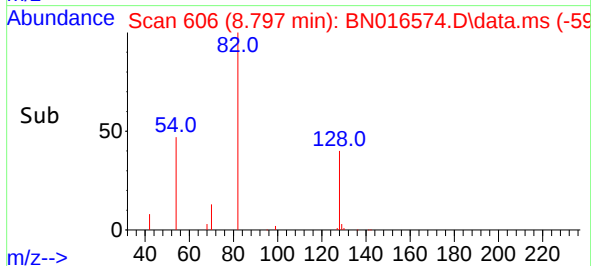
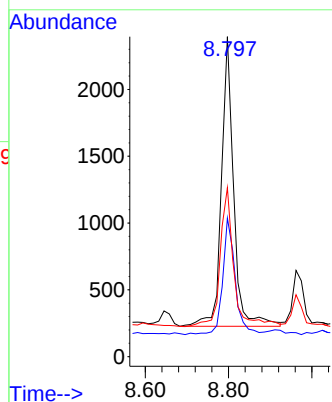
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



Tgt Ion: 82 Resp: 4419
Ion Ratio Lower Upper
82 100
128 43.3 27.4 41.2#
54 52.8 58.5 87.7#

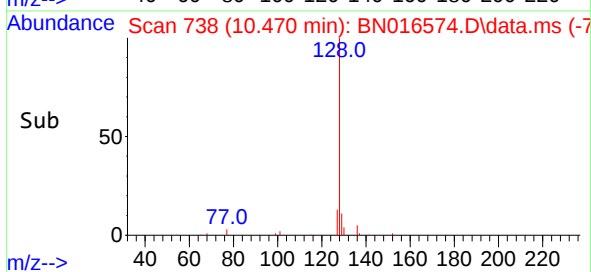
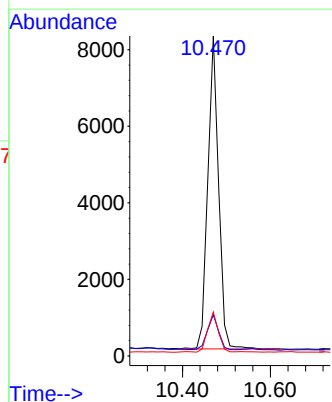
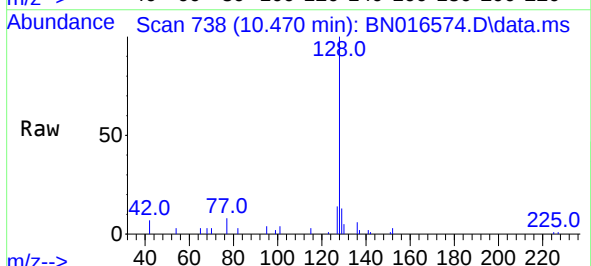
Manual Integrations
APPROVED

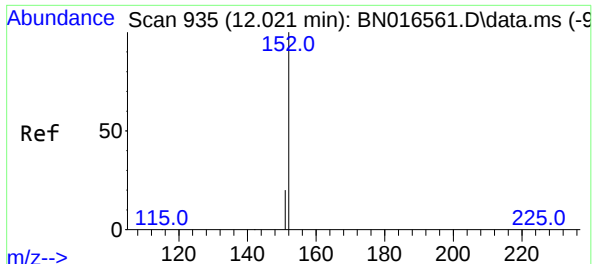
mohammad
9/30/2021 11:30:43 AM



#9
Naphthalene
Concen: 0.037 ng
RT: 10.470 min Scan# 738
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion: 128 Resp: 13812
Ion Ratio Lower Upper
128 100
129 12.9 8.9 13.3
127 13.8 10.1 15.1





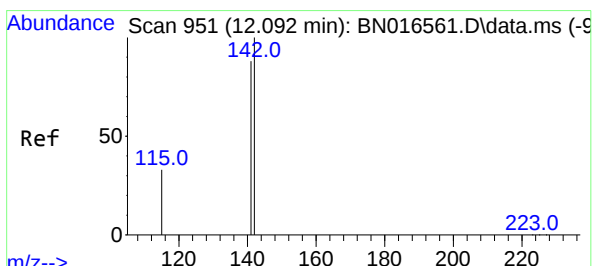
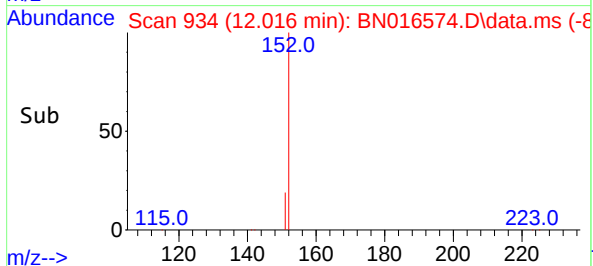
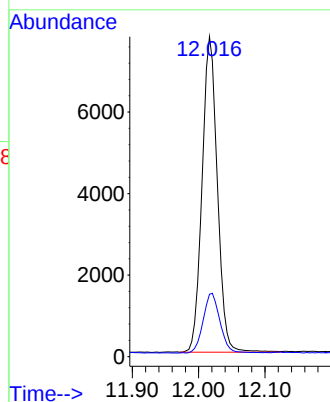
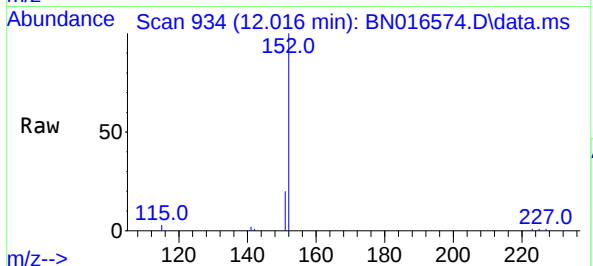
#11
2-Methylnaphthalene-d10
Concen: 0.064 ng
RT: 12.016 min Scan# 934
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:152 Resp: 12414
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

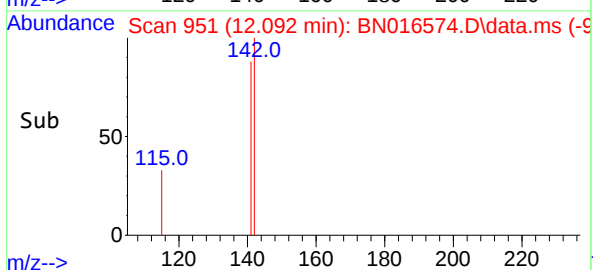
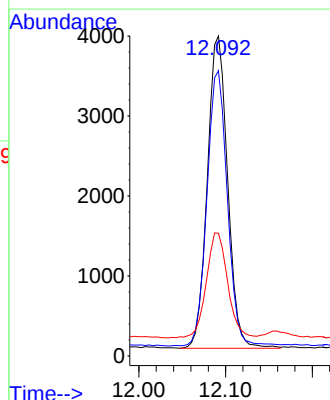
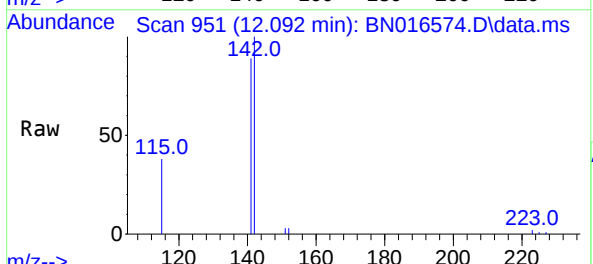
Manual Integrations
APPROVED

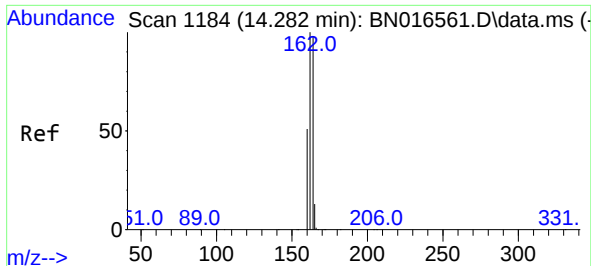
mohammad
9/30/2021 11:30:43 AM



#12
2-Methylnaphthalene
Concen: 0.028 ng
RT: 12.092 min Scan# 951
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

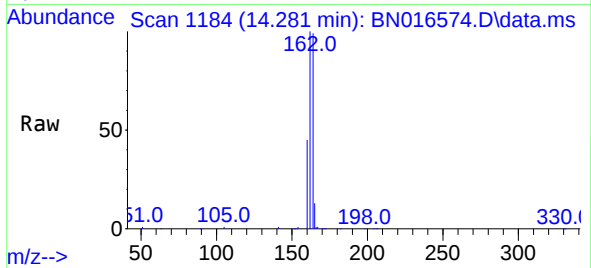
Tgt Ion:142 Resp: 6343
Ion Ratio Lower Upper
142 100
141 89.1 69.9 104.9
115 38.4 27.0 40.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.281 min Scan# 1184
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

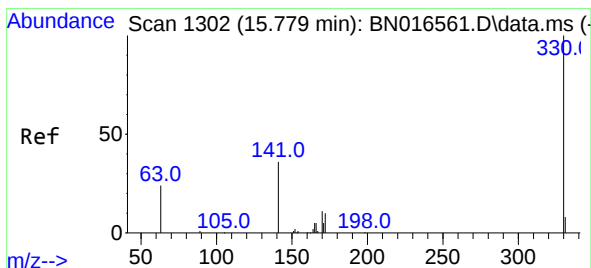
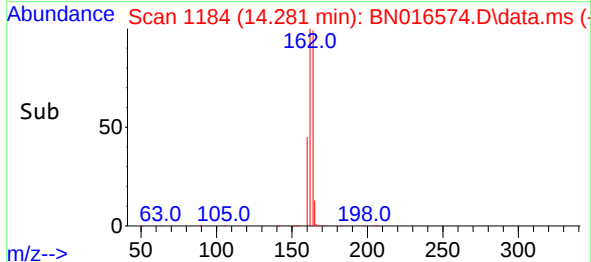
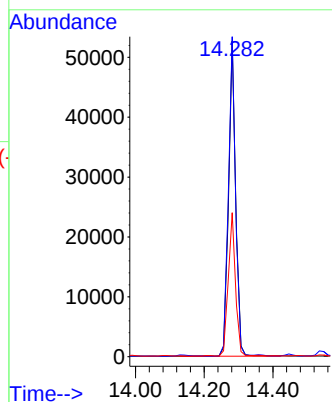
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



Tgt Ion:164 Resp: 75740
Ion Ratio Lower Upper
164 100
162 101.4 79.4 119.0
160 45.6 46.6 70.0#

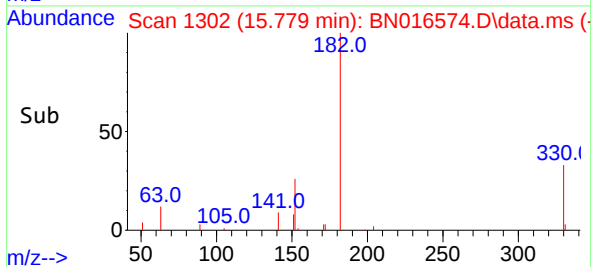
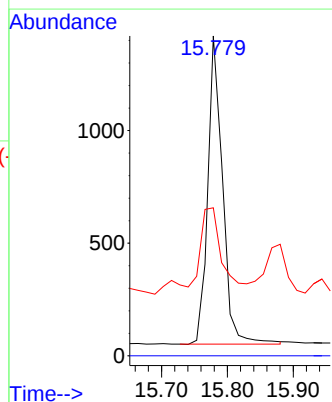
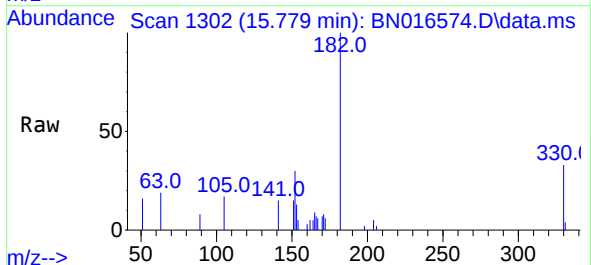
Manual Integrations
APPROVED

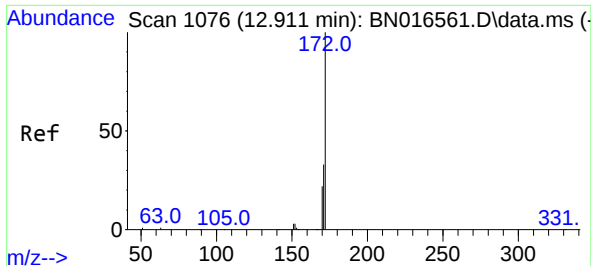
mohammad
9/30/2021 11:30:43 AM



#14
2,4,6-Tribromophenol
Concen: 0.065 ng
RT: 15.779 min Scan# 1302
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:330 Resp: 2134
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.2 34.4 51.6#





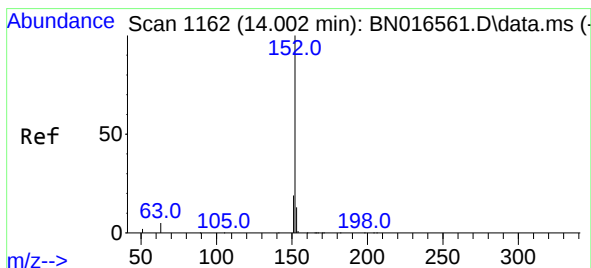
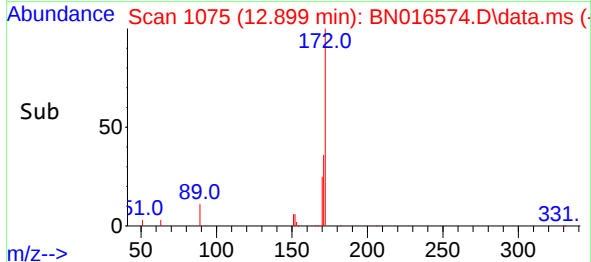
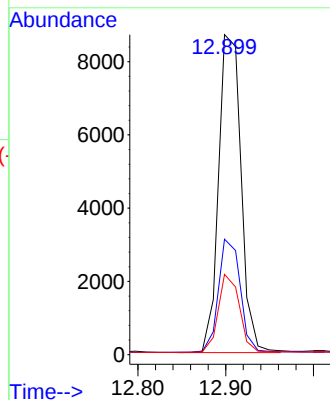
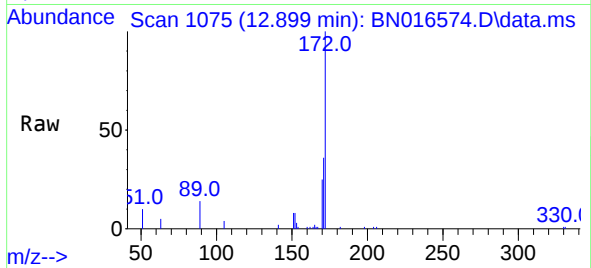
#15
2-Fluorobiphenyl
Concen: 0.050 ng
RT: 12.899 min Scan# 1075
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:172 Resp: 15476
Ion Ratio Lower Upper
172 100
171 36.1 27.4 41.2
170 25.1 18.9 28.3

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

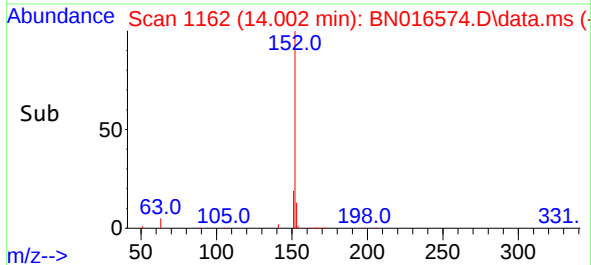
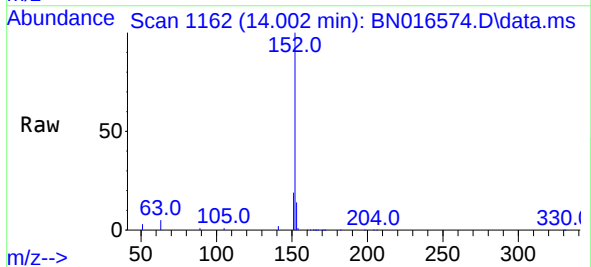
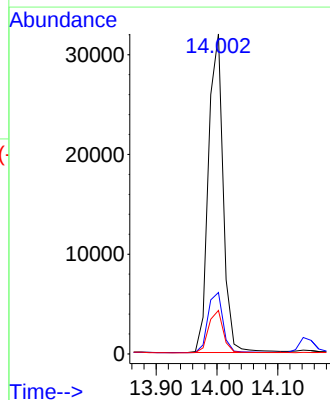
Manual Integrations
APPROVED

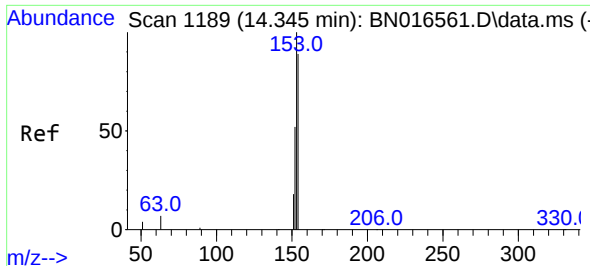
mohammad
9/30/2021 11:30:43 AM



#16
Acenaphthylene
Concen: 0.161 ng
RT: 14.002 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

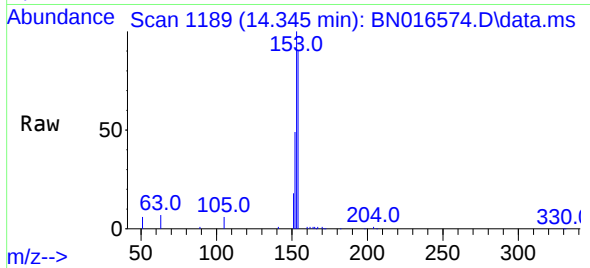
Tgt Ion:152 Resp: 53948
Ion Ratio Lower Upper
152 100
151 19.5 15.4 23.0
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.109 ng
RT: 14.345 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

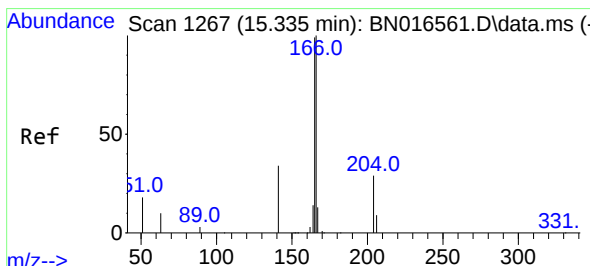
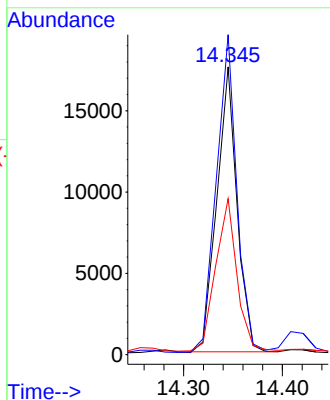
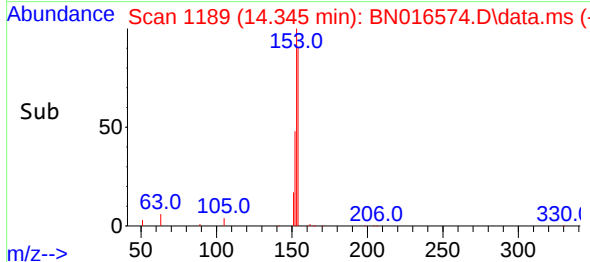
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



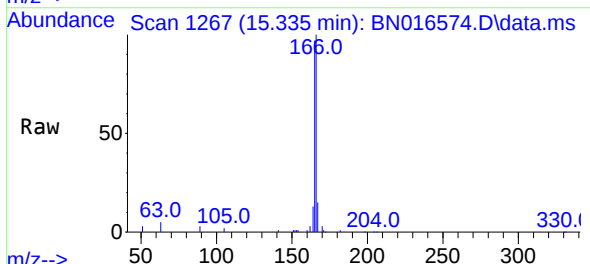
Tgt Ion:154 Resp: 24852
Ion Ratio Lower Upper
154 100
153 113.6 91.0 136.4
152 56.5 55.8 83.6

Manual Integrations
APPROVED

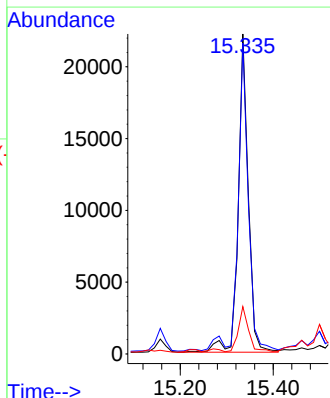
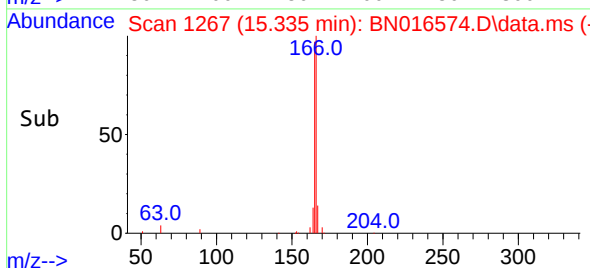
mohammad
9/30/2021 11:30:43 AM

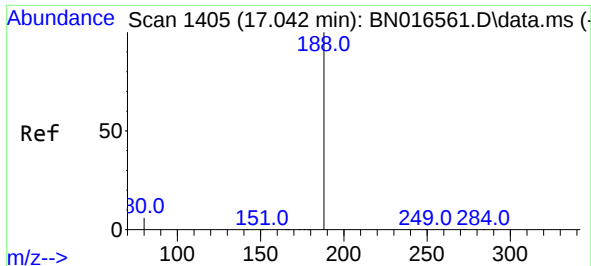


#18
Fluorene
Concen: 0.120 ng
RT: 15.335 min Scan# 1267
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



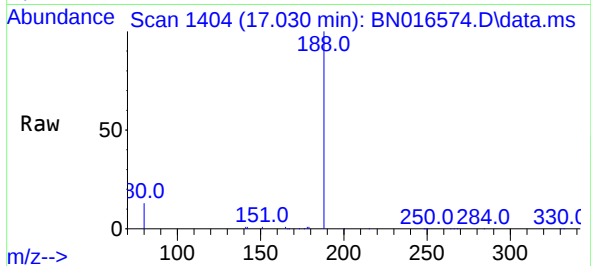
Tgt Ion:166 Resp: 33311
Ion Ratio Lower Upper
166 100
165 99.9 77.6 116.4
167 14.3 10.7 16.1





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.030 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

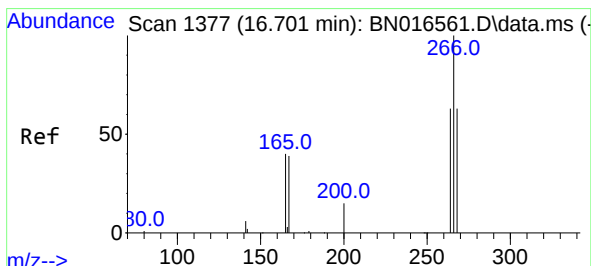
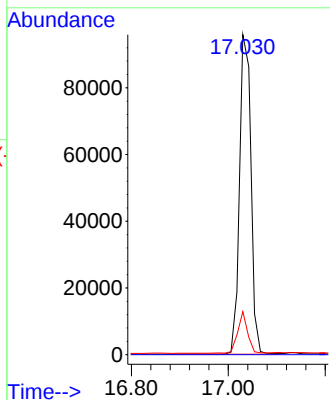
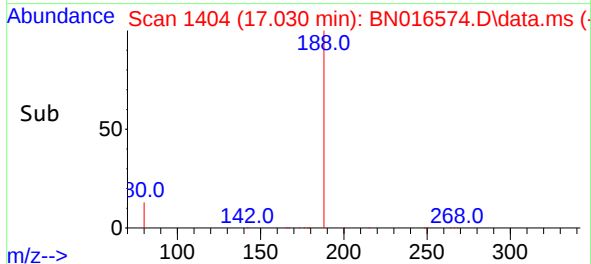
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



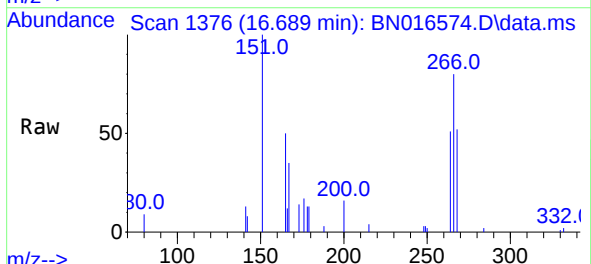
Tgt Ion:188 Resp: 157043
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.5 6.9 10.3#

Manual Integrations
APPROVED

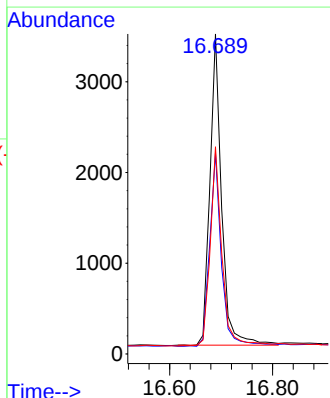
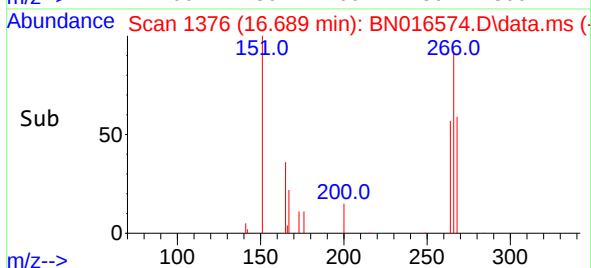
mohammad
9/30/2021 11:30:43 AM

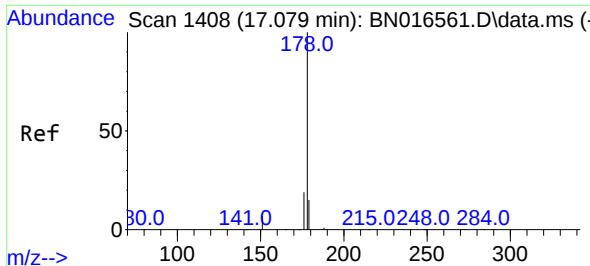


#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.689 min Scan# 1376
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



Tgt Ion:266 Resp: 5425
Ion Ratio Lower Upper
266 100
264 63.4 50.2 75.2
268 63.9 51.8 77.8





#25
Phenanthrene
Concen: 1.476 ng
RT: 17.078 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

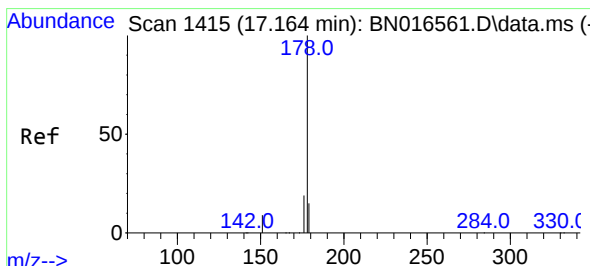
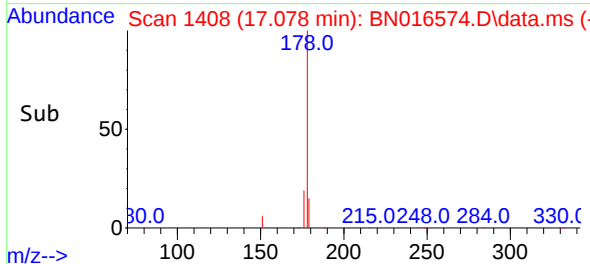
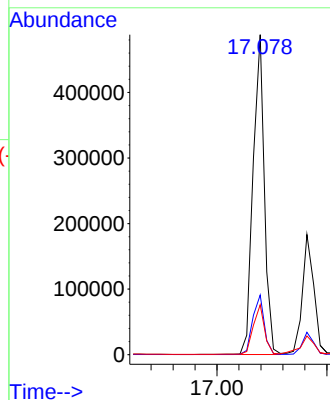
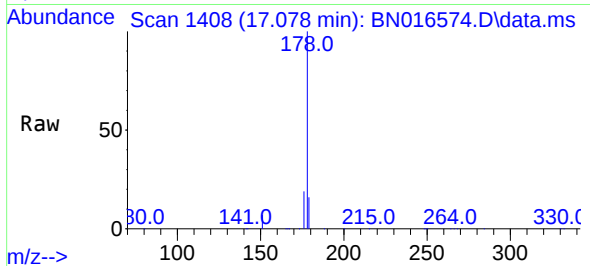
Tgt Ion:178 Resp: 697470

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.6	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

Manual Integrations
APPROVED

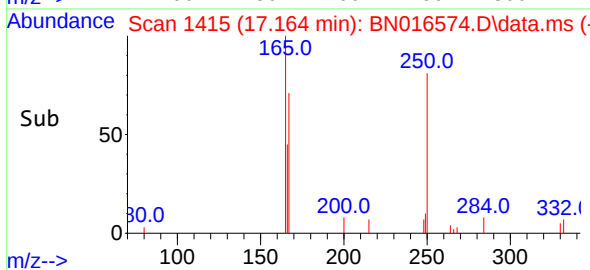
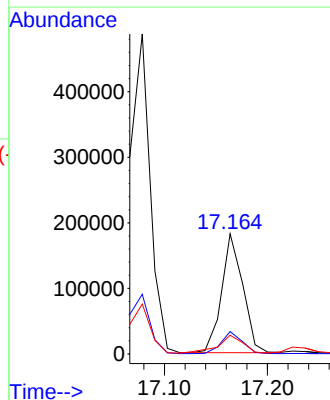
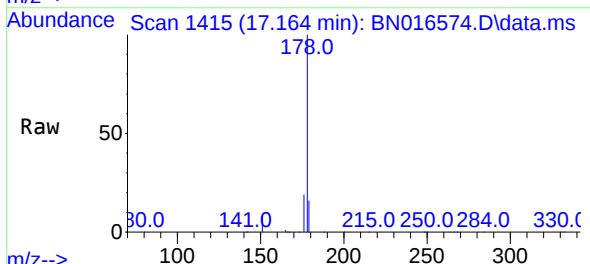
mohammad
9/30/2021 11:30:43 AM

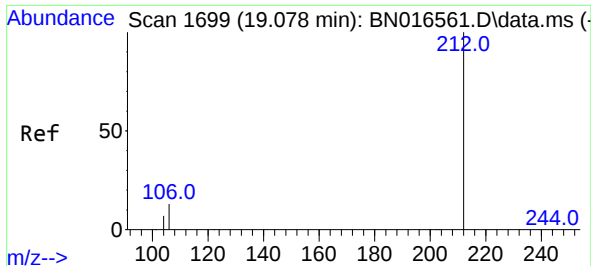


#26
Anthracene
Concen: 0.630 ng
RT: 17.164 min Scan# 1415
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:178 Resp: 258825

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	17.7	12.2	18.4





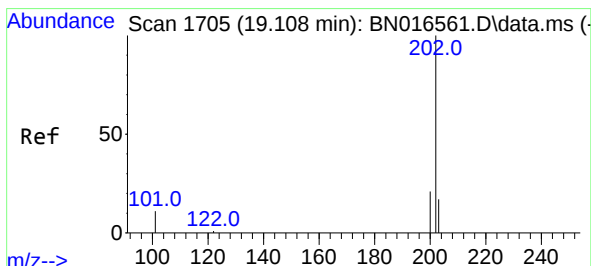
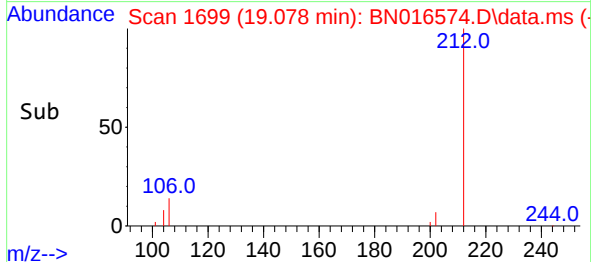
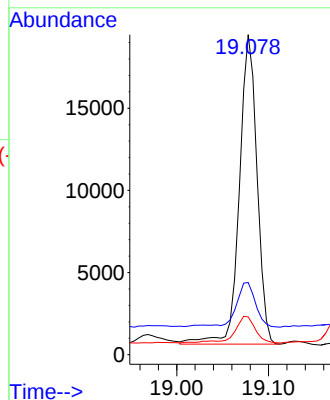
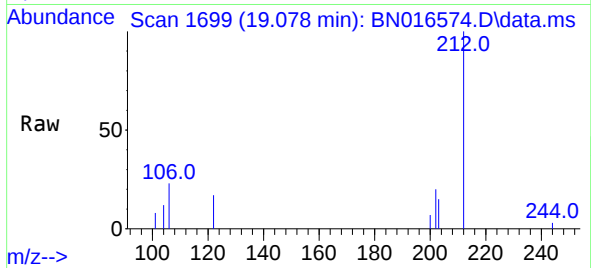
#27
Fluoranthene-d10
Concen: 0.060 ng
RT: 19.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion: 212 Resp: 25280
Ion Ratio Lower Upper
212 100
106 15.0 8.8 13.2#
104 9.3 5.0 7.4#

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

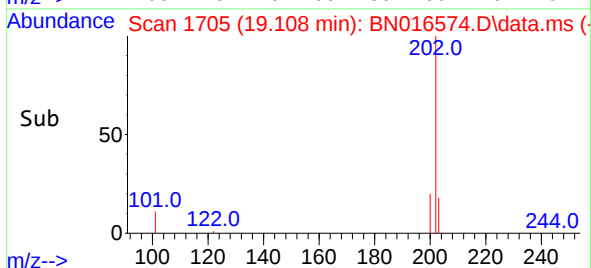
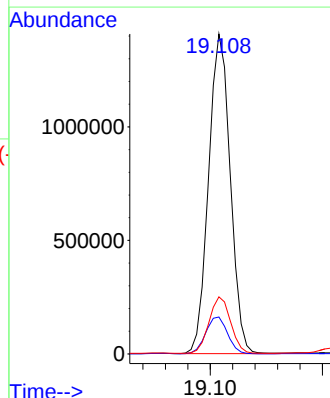
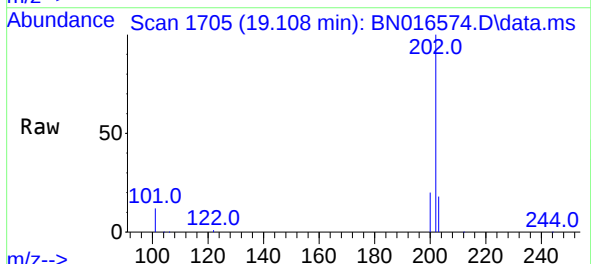
Manual Integrations
APPROVED

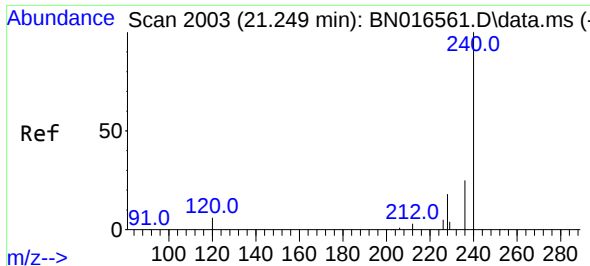
mohammad
9/30/2021 11:30:43 AM



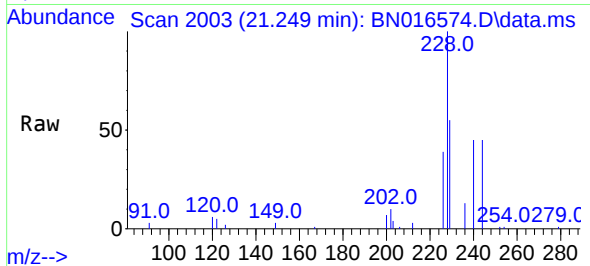
#28
Fluoranthene
Concen: 3.661 ng
RT: 19.108 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion: 202 Resp: 1890382
Ion Ratio Lower Upper
202 100
101 11.5 7.5 11.3#
203 17.5 13.9 20.9

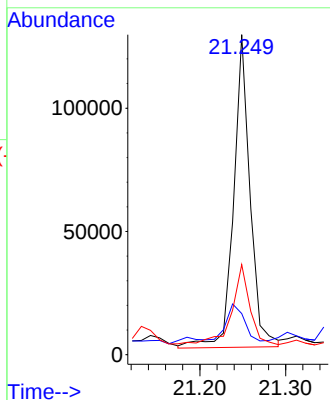
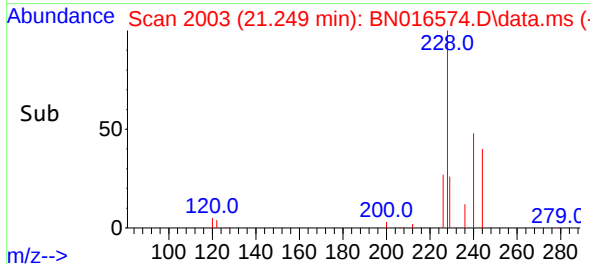




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.249 min Scan# 2003
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



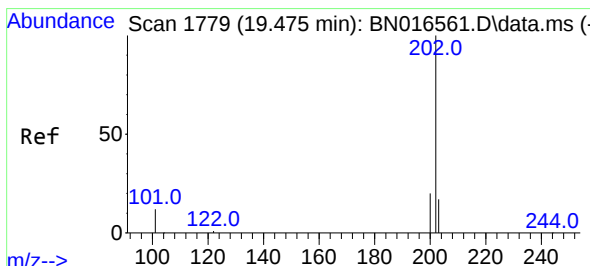
Tgt Ion:240 Resp: 169310
Ion Ratio Lower Upper
240 100
120 12.9 9.0 13.4
236 28.2 21.7 32.5



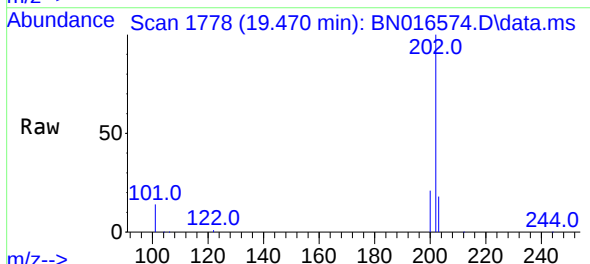
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

Manual Integrations
APPROVED

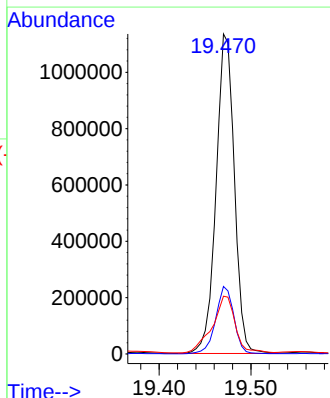
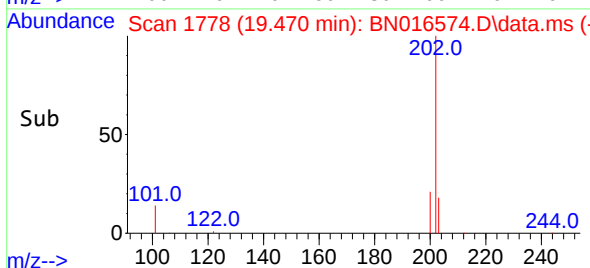
mohammad
9/30/2021 11:30:43 AM

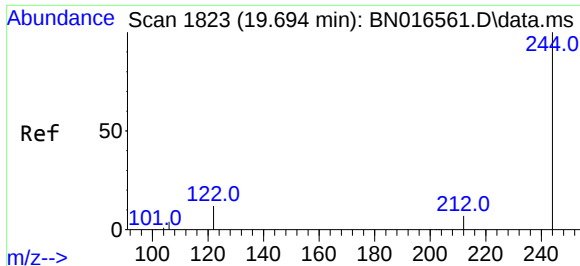


#30
Pyrene
Concen: 2.729 ng
RT: 19.470 min Scan# 1778
Delta R.T. -0.005 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



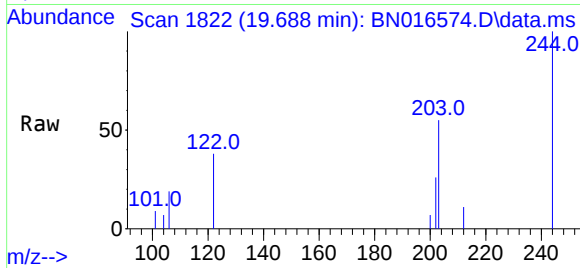
Tgt Ion:202 Resp: 1575161
Ion Ratio Lower Upper
202 100
200 20.8 16.3 24.5
203 22.1 13.9 20.9#





#31
Terphenyl-d14
Concen: 0.056 ng
RT: 19.688 min Scan# 1822
Delta R.T. -0.005 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

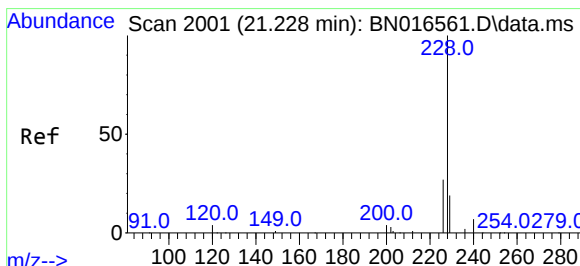
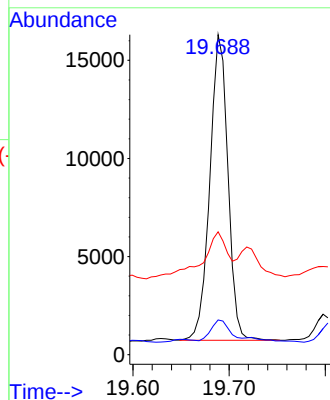
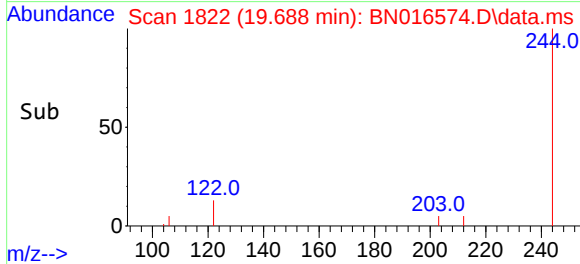
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



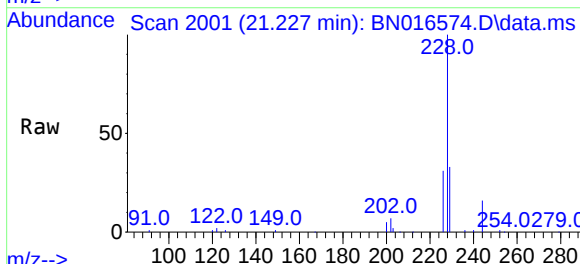
Tgt Ion:244 Resp: 20323
Ion Ratio Lower Upper
244 100
212 10.9 6.1 9.1#
122 38.4 8.4 12.6#

Manual Integrations
APPROVED

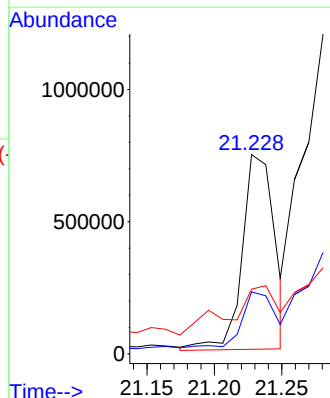
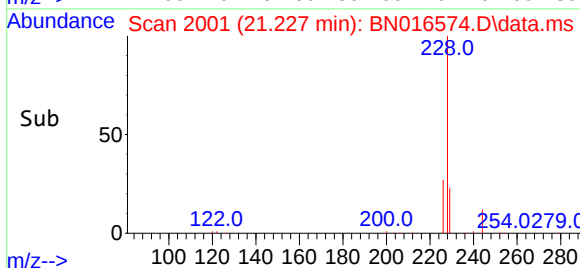
mohammad
9/30/2021 11:30:43 AM

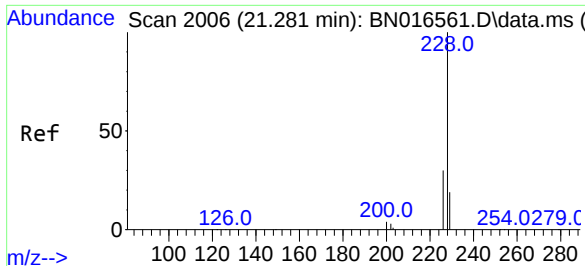


#32
Benzo(a)anthracene
Concen: 2.365 ng
RT: 21.227 min Scan# 2001
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



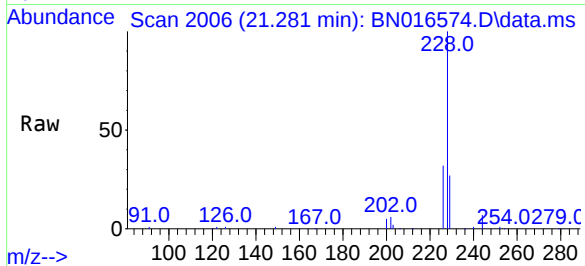
Tgt Ion:228 Resp: 1241023
Ion Ratio Lower Upper
228 100
226 31.1 21.2 31.8
229 32.5 15.6 23.4#





#33
Chrysene
Concen: 4.595 ng
RT: 21.281 min Scan# 2006
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

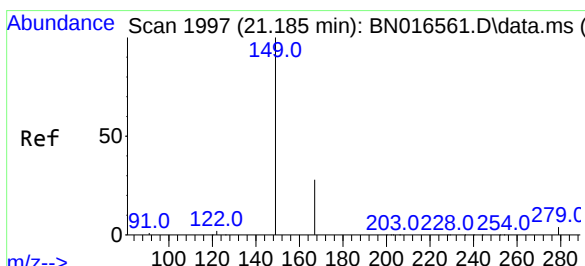
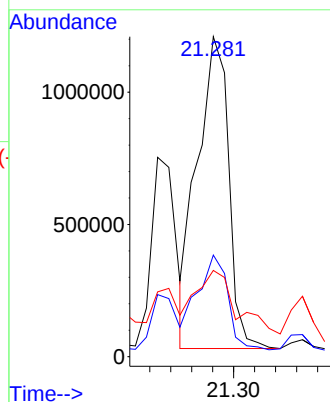
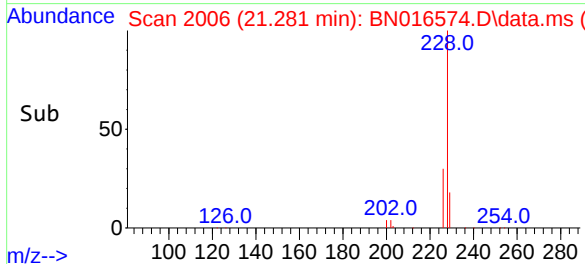
Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD



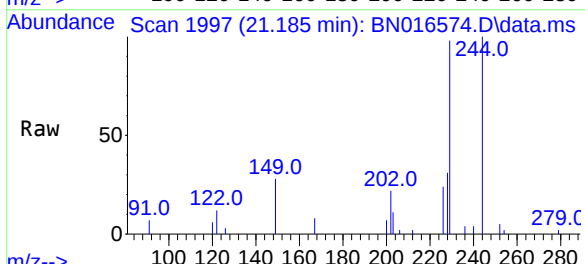
Tgt Ion:228 Resp: 2459555
Ion Ratio Lower Upper
228 100
226 31.8 23.1 34.7
229 27.0 15.8 23.8#

Manual Integrations
APPROVED

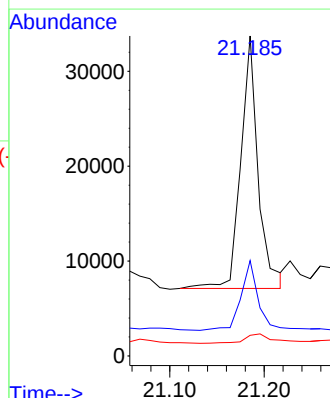
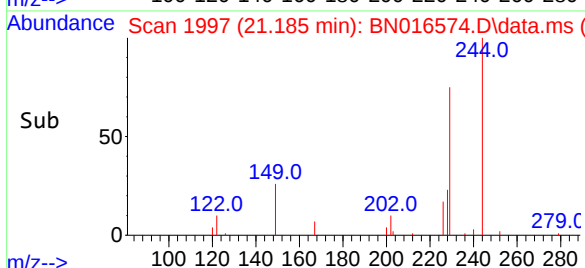
mohammad
9/30/2021 11:30:43 AM

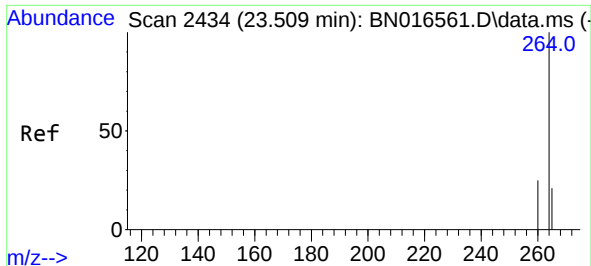


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.218 ng
RT: 21.185 min Scan# 1997
Delta R.T. 0.000 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



Tgt Ion:149 Resp: 34048
Ion Ratio Lower Upper
149 100
167 27.7 21.4 32.2
279 6.2 3.1 4.7#





#35

Perylene-d12

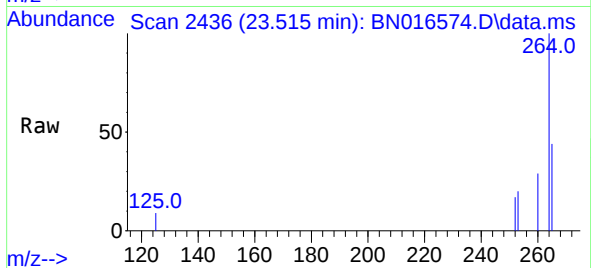
Concen: 0.400 ng

RT: 23.515 min Scan# 2436

Delta R.T. 0.007 min

Lab File: BN016574.D

Acq: 29 Sep 2021 11:54



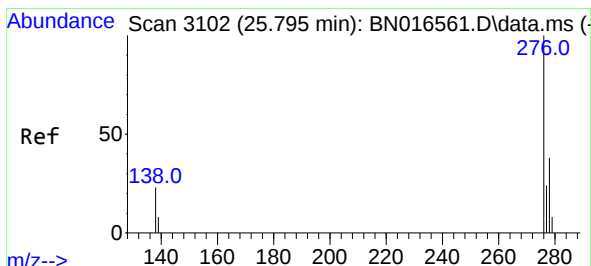
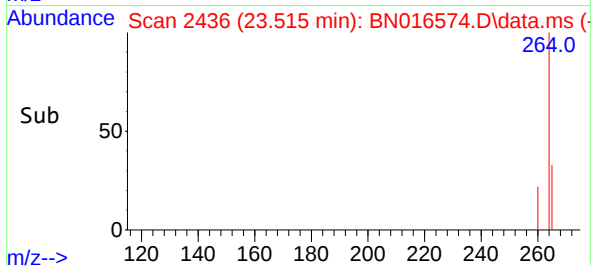
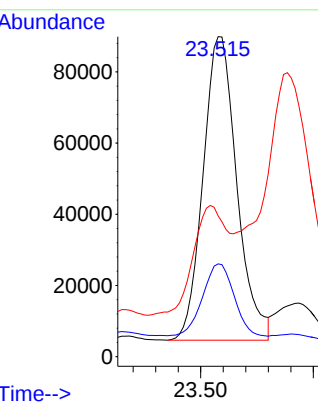
Tgt Ion:264 Resp: 177296

Ion Ratio Lower Upper

264 100

260 29.0 19.9 29.9

265 44.0 20.7 31.1#



#36

Indeno(1,2,3-cd)pyrene

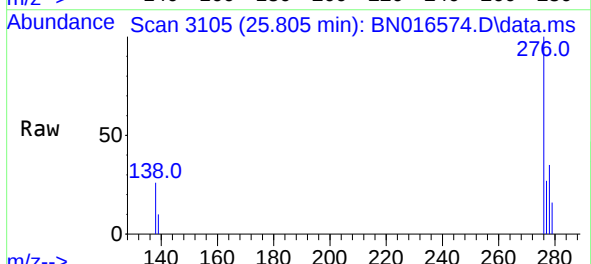
Concen: 0.921 ng

RT: 25.805 min Scan# 3105

Delta R.T. 0.003 min

Lab File: BN016574.D

Acq: 29 Sep 2021 11:54



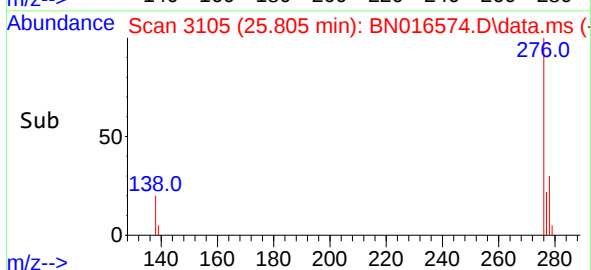
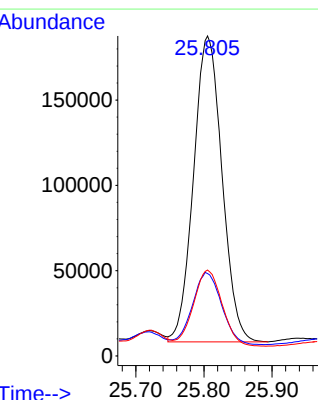
Tgt Ion:276 Resp: 520636

Ion Ratio Lower Upper

276 100

138 24.1 18.2 27.2

277 25.2 19.8 29.8



Instrument :

BNA_N

ClientSampleId :

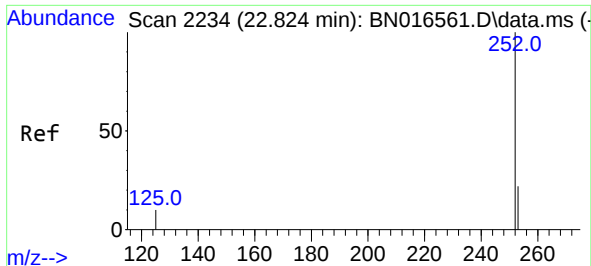
S-815-N-SO-1-1.5-092421-FD

Manual Integrations

APPROVED

mohammad

9/30/2021 11:30:43 AM



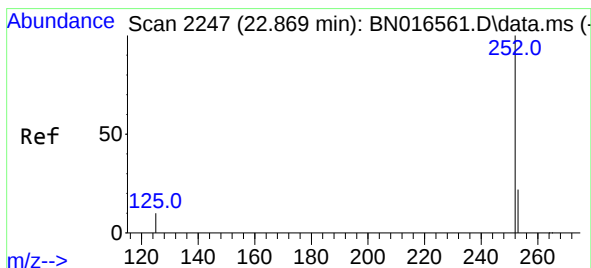
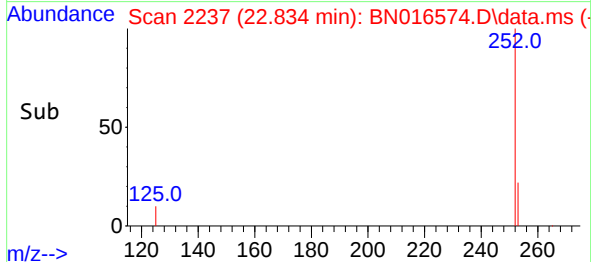
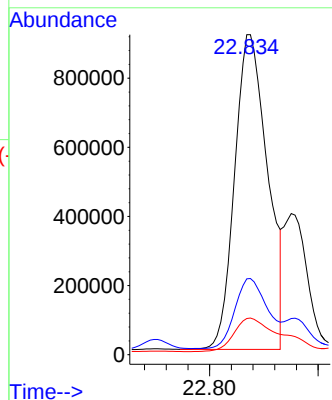
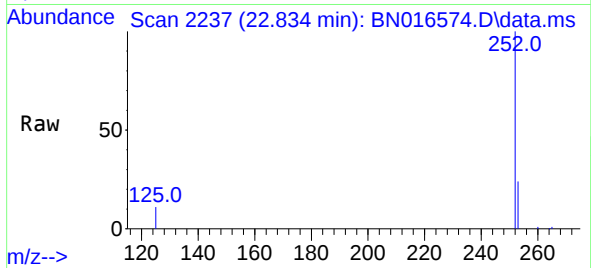
#37
Benzo(b)fluoranthene
Concen: 3.247 ng
RT: 22.834 min Scan# 2237
Delta R.T. 0.007 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:252 Resp: 1922220
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.6
125 11.3 7.3 10.9#

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

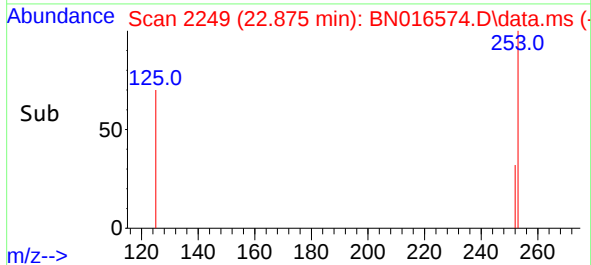
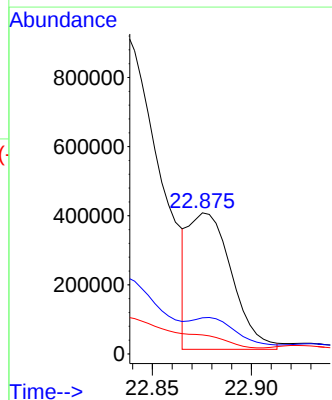
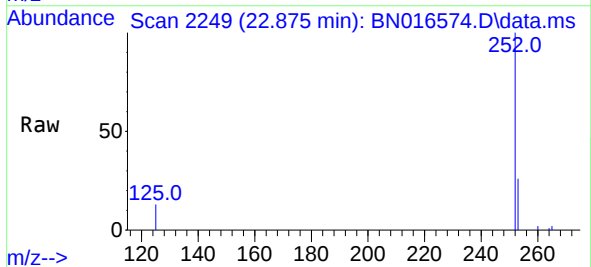
Manual Integrations
APPROVED

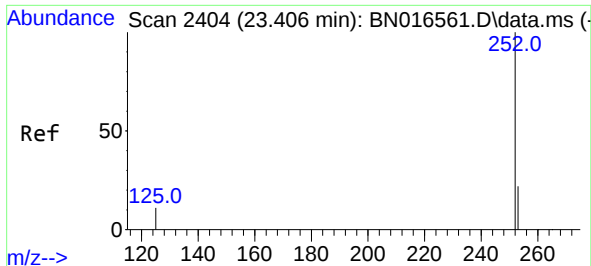
mohammad
9/30/2021 11:30:43 AM



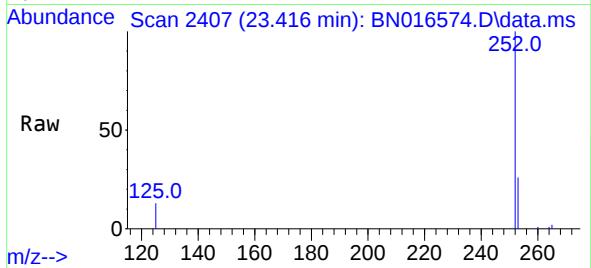
#38
Benzo(k)fluoranthene
Concen: 1.034 ng m
RT: 22.875 min Scan# 2249
Delta R.T. 0.003 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:252 Resp: 596654
Ion Ratio Lower Upper
252 100
253 25.7 17.8 26.6
125 13.5 7.4 11.0#

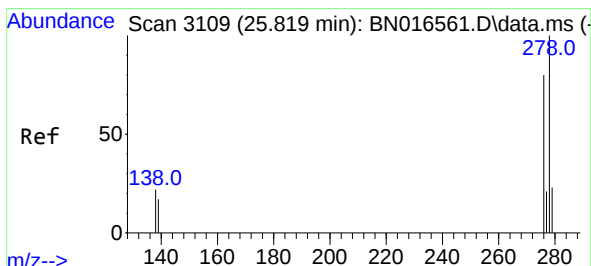
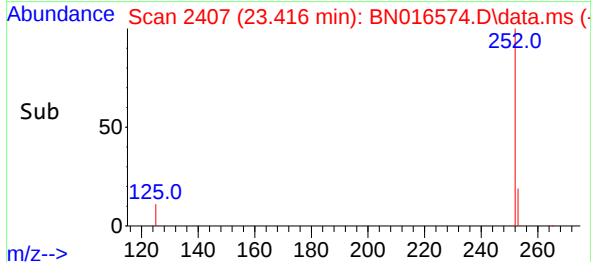
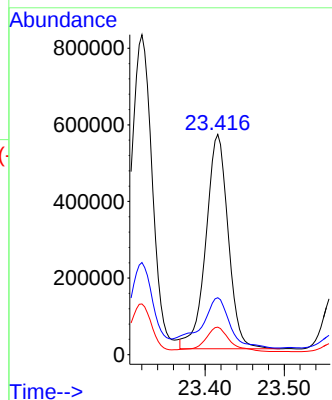




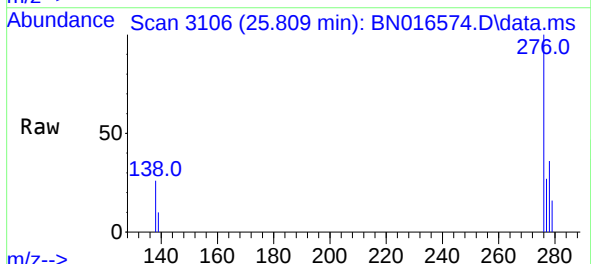
#39
Benzo(a)pyrene
Concen: 2.018 ng
RT: 23.416 min Scan# 2407
Delta R.T. 0.007 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



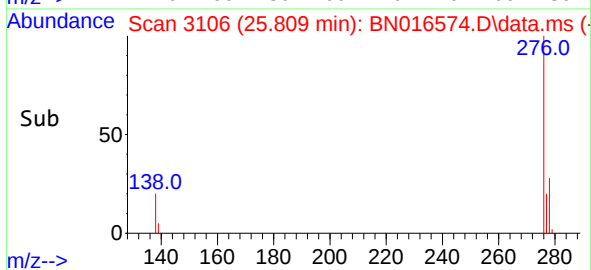
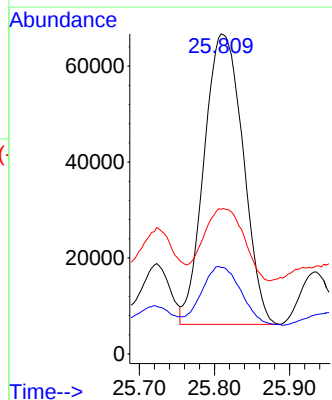
Tgt Ion:252 Resp: 1095975
Ion Ratio Lower Upper
252 100
253 25.8 17.9 26.9
125 12.5 8.2 12.4#



#40
Dibenzo(a,h)anthracene
Concen: 0.555 ng
RT: 25.809 min Scan# 3106
Delta R.T. -0.014 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54



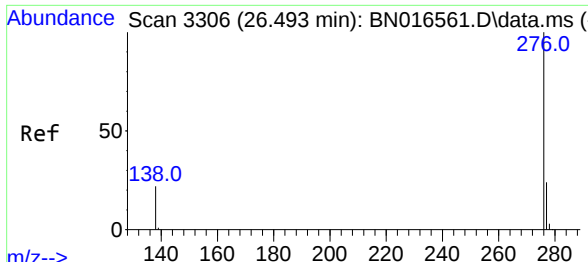
Tgt Ion:278 Resp: 218023
Ion Ratio Lower Upper
278 100
139 27.1 12.1 18.1#
279 45.2 19.2 28.8#



Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

Manual Integrations
APPROVED

mohammad
9/30/2021 11:30:43 AM



#41
Benzo(g,h,i)perylene
Concen: 1.061 ng
RT: 26.510 min Scan# 3311
Delta R.T. 0.014 min
Lab File: BN016574.D
Acq: 29 Sep 2021 11:54

Tgt Ion:	276	Resp:	545577
Ion Ratio	Lower	Upper	
276	100		
277	25.8	18.9	28.3
138	23.9	15.7	23.5#

Instrument :
BNA_N
ClientSampleId :
S-815-N-SO-1-1.5-092421-FD

Manual Integrations
APPROVED

mohammad
9/30/2021 11:30:43 AM

