

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042721\
 Data File : BM029679.D
 Acq On : 27 Apr 2021 18:27
 Operator : CG/JU
 Sample : M2170-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DN-1

Manual Integrations
 APPROVED

mohammad
 4/28/2021 11:00:39 AM

Quant Time: Apr 28 01:22:27 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042121.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 26 15:01:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.610	152	70516	20.00	ng	-0.01
21) Naphthalene-d8	10.386	136	255203	20.00	ng	-0.01
39) Acenaphthene-d10	14.257	164	172479	20.00	ng	-0.01
64) Phenanthrene-d10	17.004	188	392395	20.00	ng	0.00
76) Chrysene-d12	21.192	240	482328	20.00	ng	0.00
86) Perylene-d12	23.374	264	506305	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.210	112	361098	102.66	ng	0.00
7) Phenol-d6	6.793	99	447787	85.24	ng	0.00
23) Nitrobenzene-d5	8.763	82	288684	58.26	ng	-0.01
42) 2,4,6-Tribromophenol	15.751	330	241016	101.04	ng	-0.01
45) 2-Fluorobiphenyl	12.874	172	789278	62.11	ng	-0.01
79) Terphenyl-d14	19.639	244	1360116	53.46	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.439	128	67447	5.14	ng	99
37) 2-Methylnaphthalene	12.057	142	23525	2.24	ng	93
49) Acenaphthylene	13.974	152	53847	3.48	ng	# 97
50) Dimethylphthalate	13.722	163	26289	2.02	ng	98
52) Acenaphthene	14.321	154	46667	4.82	ng	96
55) Dibenzofuran	14.657	168	69294	4.23	ng	92
58) Fluorene	15.310	166	70948	5.16	ng	97
71) Phenanthrene	17.045	178	1005414	44.50	ng	100
72) Anthracene	17.133	178	259154	11.63	ng	98
73) Carbazole	17.410	167	88019	4.21	ng	98
75) Fluoranthene	19.068	202	1509675	55.10	ng	99
78) Pyrene	19.427	202	1328154	42.80	ng	99
81) Benzo(a)anthracene	21.174	228	782371	24.52	ng	98
83) Chrysene	21.227	228	657726	20.98	ng	97
87) Indeno(1,2,3-cd)pyrene	25.562	276	392079	10.02	ng	# 95
88) Benzo(b)fluoranthene	22.727	252	830538m	25.15	ng	
89) Benzo(k)fluoranthene	22.762	252	293625m	8.87	ng	
90) Benzo(a)pyrene	23.280	252	641154	20.68	ng	97
91) Dibenzo(a,h)anthracene	25.562	278	107912m	3.20	ng	
92) Benzo(g,h,i)perylene	26.232	276	364581	11.68	ng	98

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

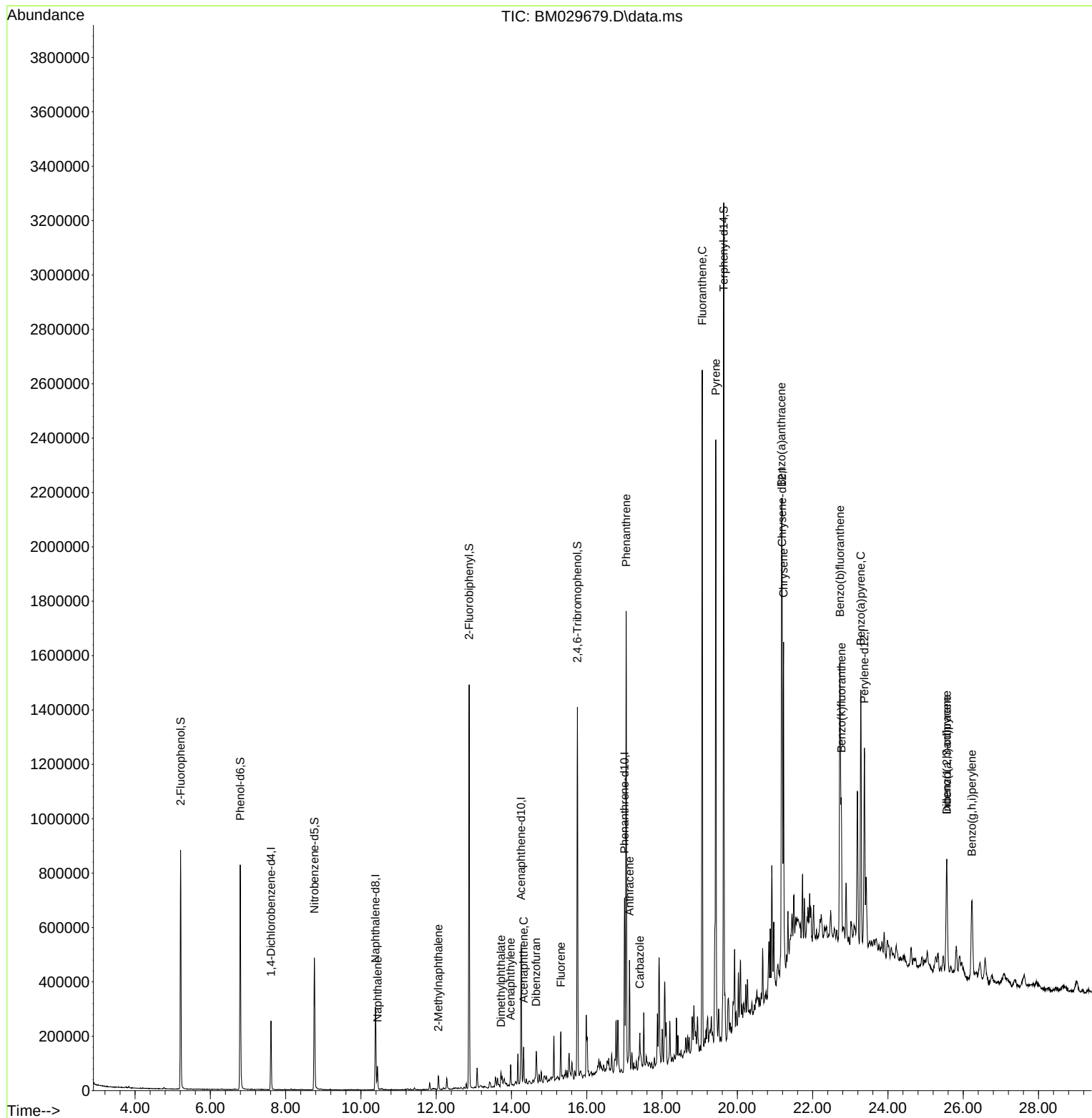
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042721\
Data File : BM029679.D
Acq On : 27 Apr 2021 18:27
Operator : CG/JU
Sample : M2170-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

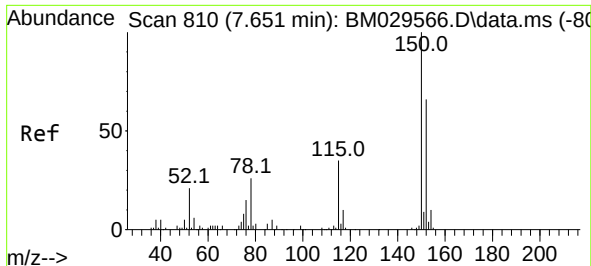
Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

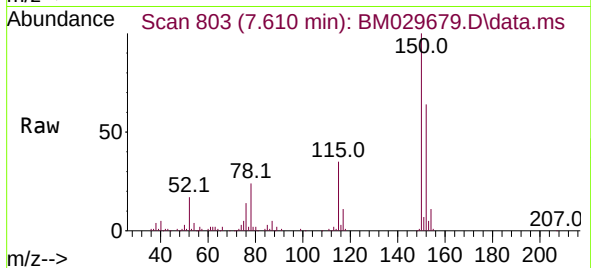
mohammad
4/28/2021 11:00:39 AM

Quant Time: Apr 28 01:22:27 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042121.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 26 15:01:01 2021
Response via : Initial Calibration

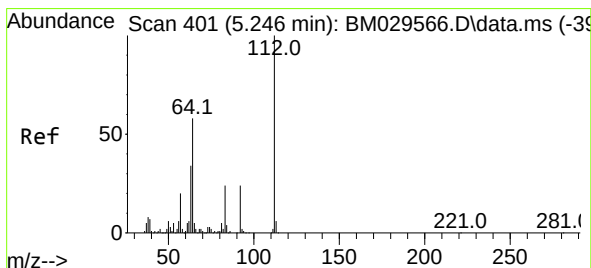
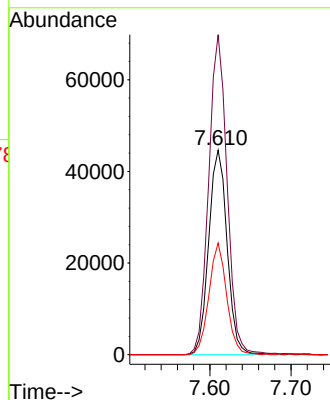
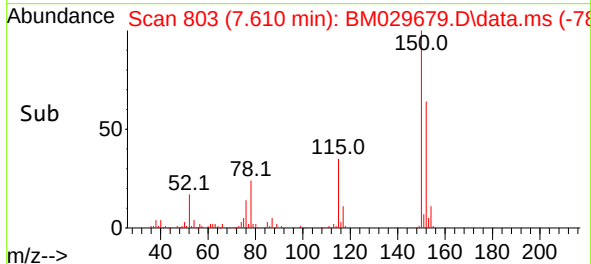




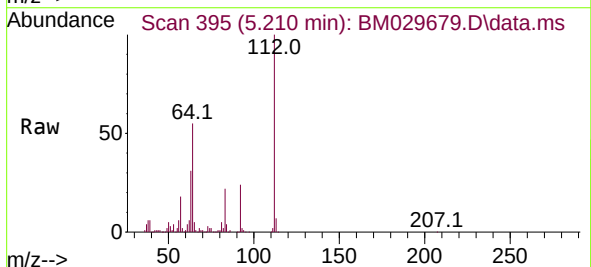
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.610 min Scan# 803
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



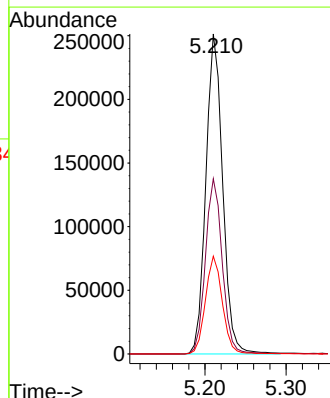
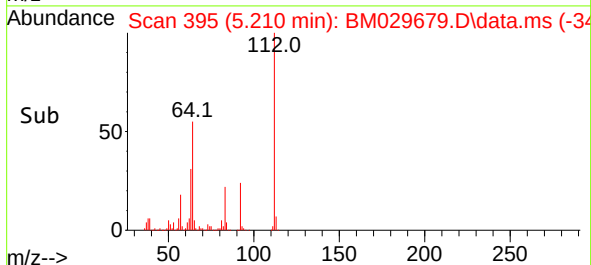
Tgt Ion:152 Resp: 70516
Ion Ratio Lower Upper
152 100
150 156.5 125.9 188.9
115 54.6 44.6 67.0



#5
2-Fluorophenol
Concen: 102.66 ng
RT: 5.210 min Scan# 395
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



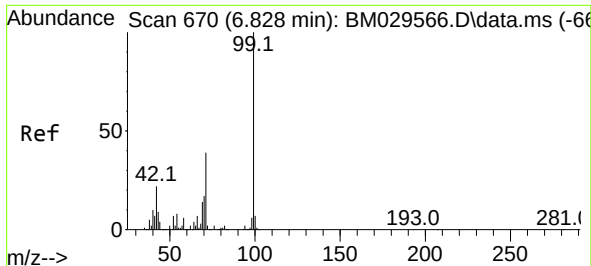
Tgt Ion:112 Resp: 361098
Ion Ratio Lower Upper
112 100
64 54.8 47.1 70.7
63 30.5 27.3 40.9



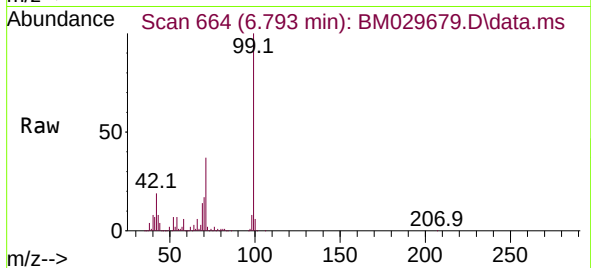
Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

mohammad
4/28/2021 11:00:39 AM

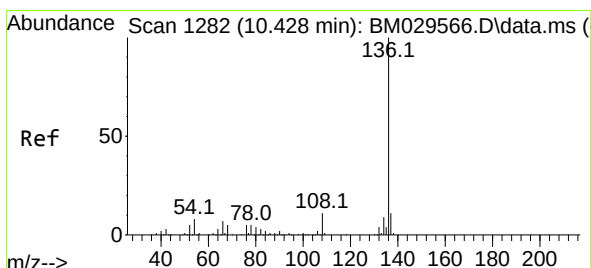
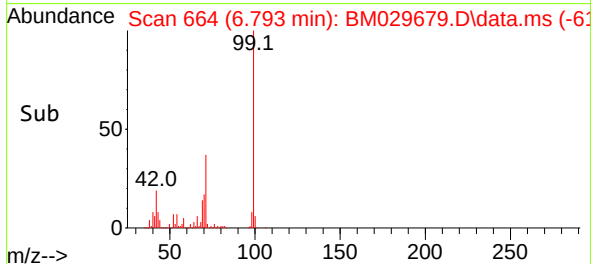
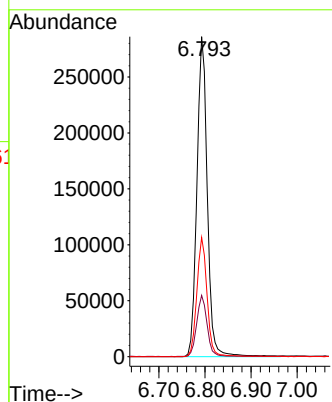


#7
Phenol-d6
Concen: 85.24 ng
RT: 6.793 min Scan# 664
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

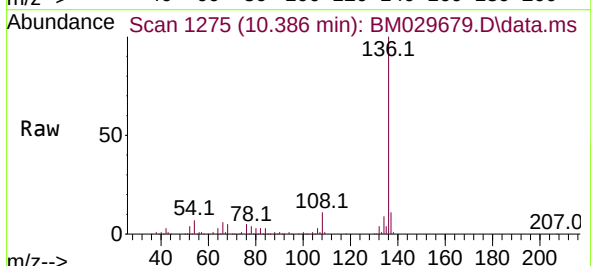


Tgt Ion: 99 Resp: 447787

Ion	Ratio	Lower	Upper
99	100		
42	19.2	18.0	27.0
71	37.2	30.9	46.3

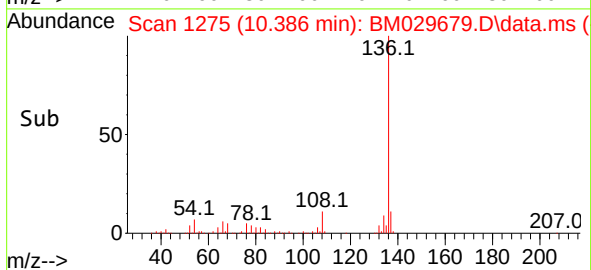
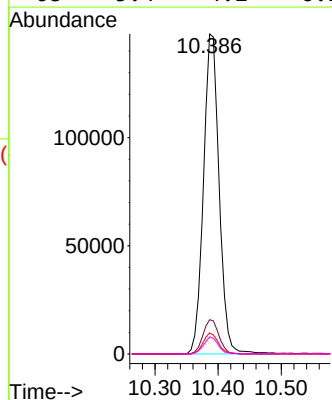


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.386 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



Tgt Ion: 136 Resp: 255203

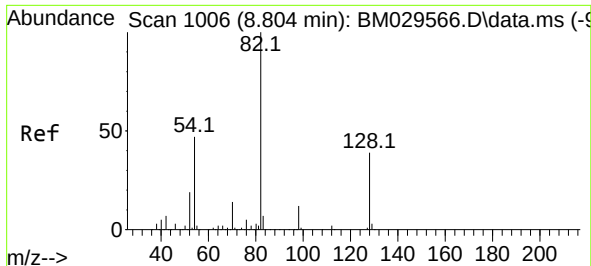
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.4	12.6
54	6.6	5.5	8.3
68	5.4	4.2	6.2



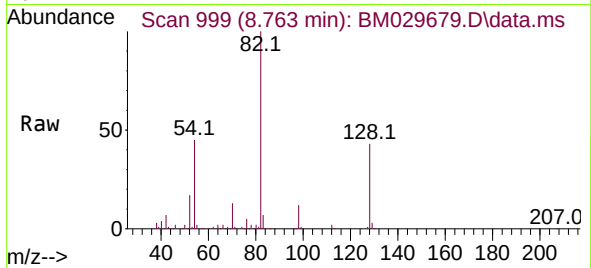
Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

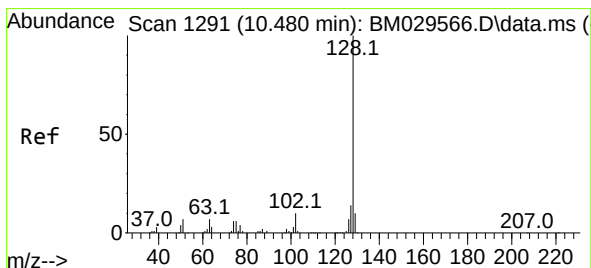
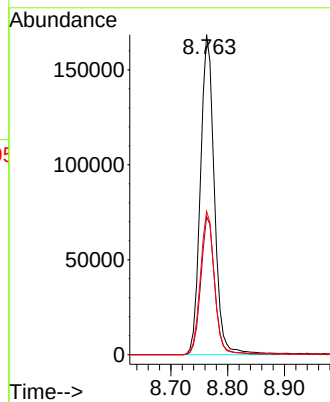
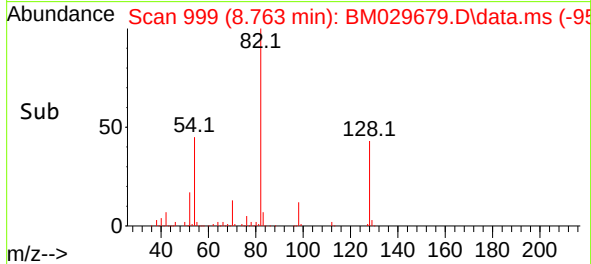
mohammad
4/28/2021 11:00:39 AM



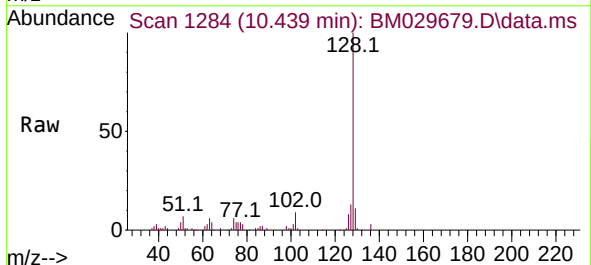
#23
Nitrobenzene-d5
Concen: 58.26 ng
RT: 8.763 min Scan# 999
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



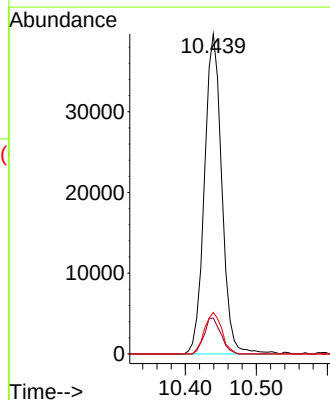
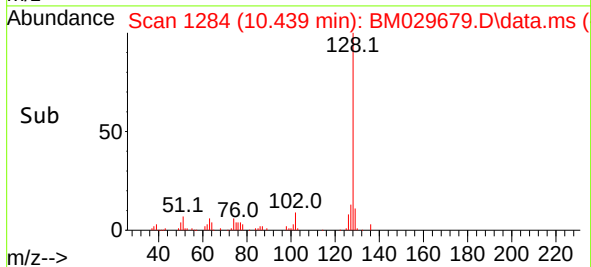
Tgt Ion: 82 Resp: 288684
Ion Ratio Lower Upper
82 100
128 43.1 31.1 46.7
54 44.8 37.3 55.9



#31
Naphthalene
Concen: 5.14 ng
RT: 10.439 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



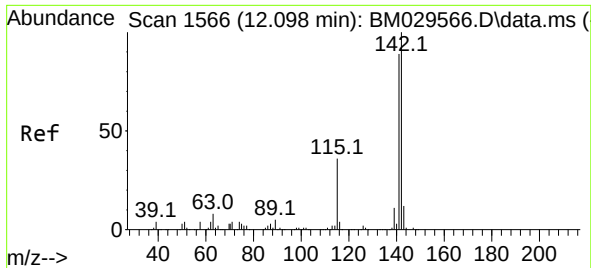
Tgt Ion: 128 Resp: 67447
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.6
127 13.0 10.8 16.2



Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

mohammad
4/28/2021 11:00:39 AM



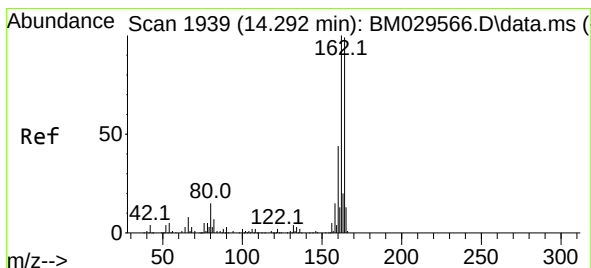
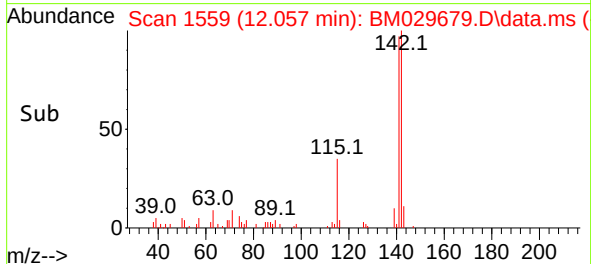
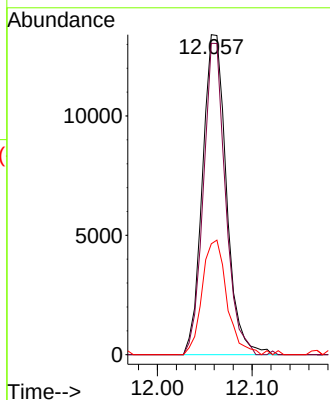
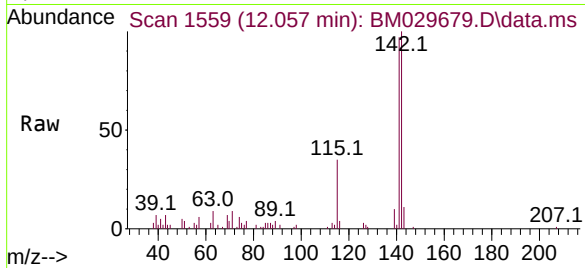
#37
2-Methylnaphthalene
Concen: 2.24 ng
RT: 12.057 min Scan# 1559
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:	142	Resp:	23525
Ion Ratio	Lower	Upper	
142	100		
141	97.3	71.7	107.5
115	34.6	29.1	43.7

Instrument :
BNA_M
ClientSampled :
DN-1

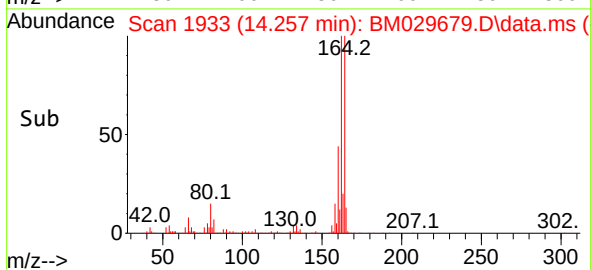
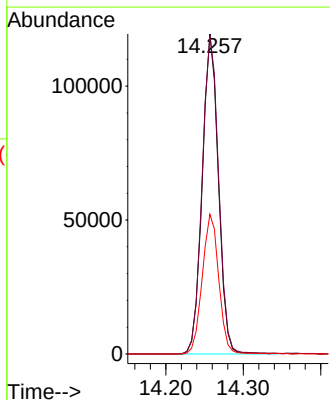
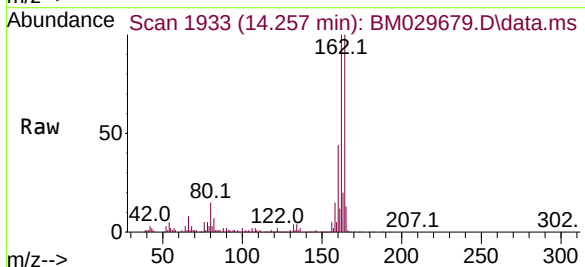
Manual Integrations
APPROVED

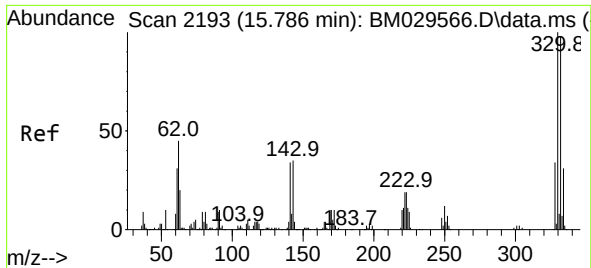
mohammad
4/28/2021 11:00:39 AM



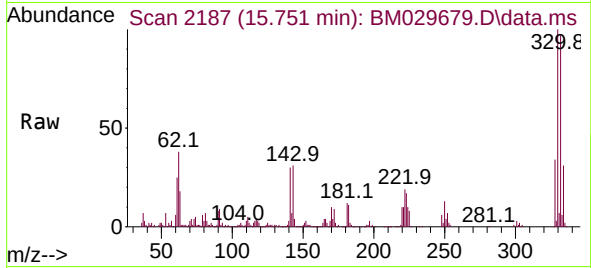
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.257 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:	164	Resp:	172479
Ion Ratio	Lower	Upper	
164	100		
162	99.6	83.4	125.0
160	43.6	37.2	55.8

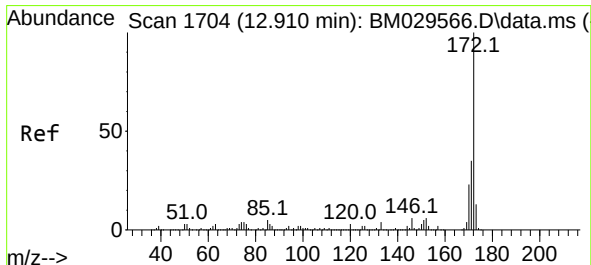
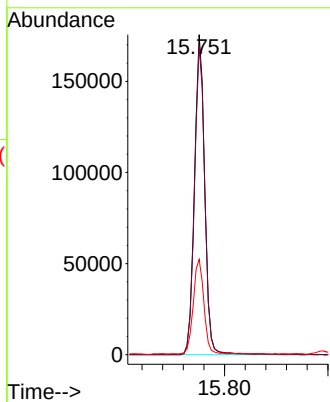
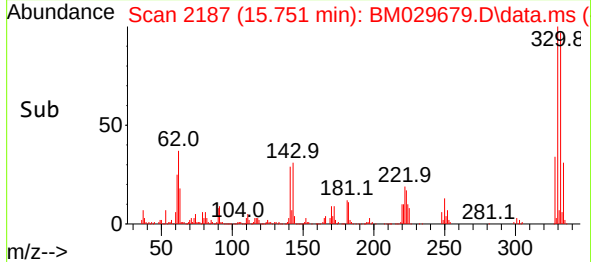




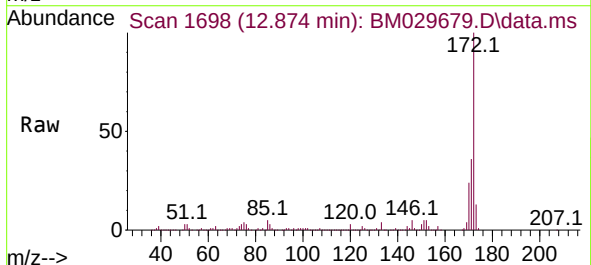
#42
2,4,6-Tribromophenol
Concen: 101.04 ng
RT: 15.751 min Scan# 2187
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



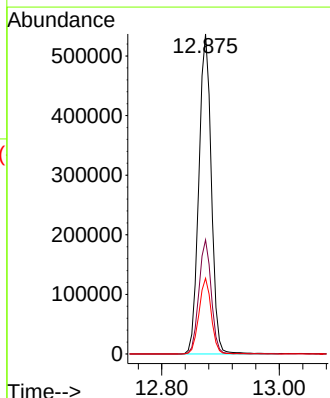
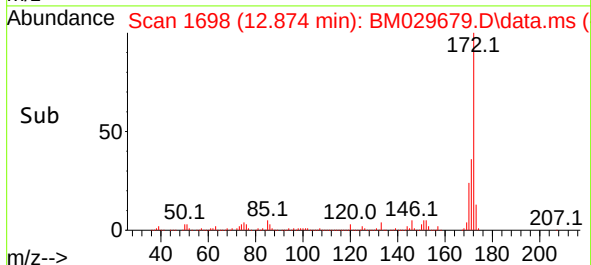
Tgt Ion: 330 Resp: 241016
Ion Ratio Lower Upper
330 100
332 97.1 77.0 115.4
141 30.4 30.2 45.2



#45
2-Fluorobiphenyl
Concen: 62.11 ng
RT: 12.874 min Scan# 1698
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



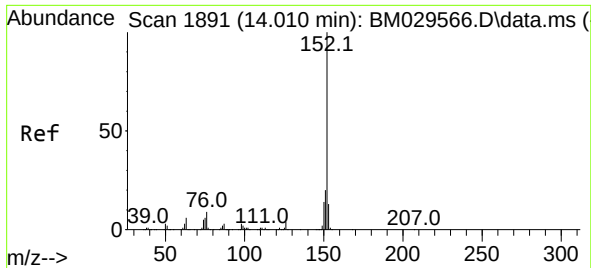
Tgt Ion: 172 Resp: 789278
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 23.7 18.4 27.6



Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

mohammad
4/28/2021 11:00:39 AM



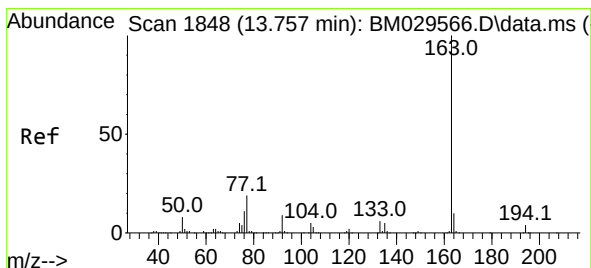
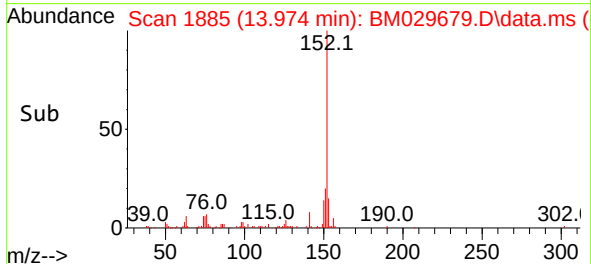
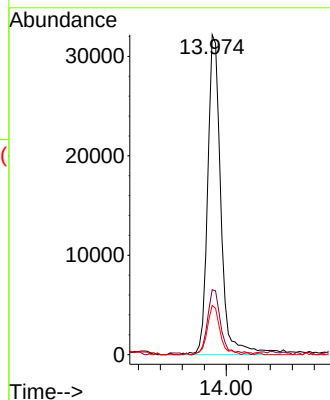
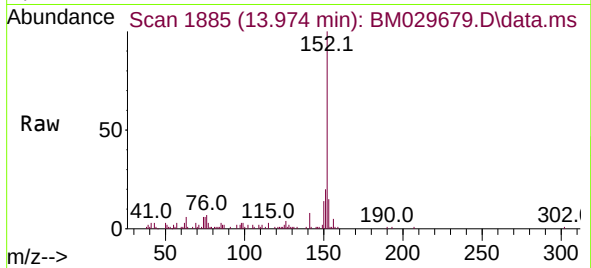
#49
Acenaphthylene
Concen: 3.48 ng
RT: 13.974 min Scan# 1885
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	15.4	10.2	15.4#

Instrument :
BNA_M
ClientSampleId :
DN-1

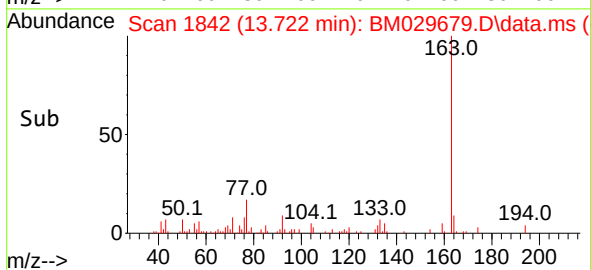
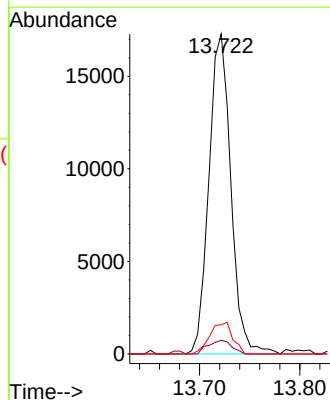
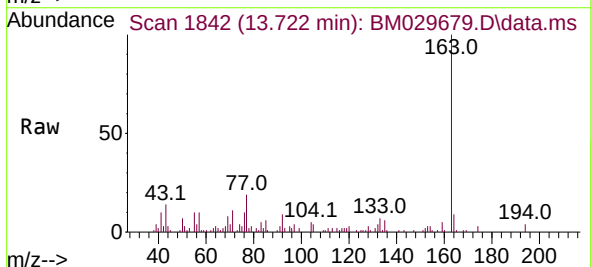
Manual Integrations
APPROVED

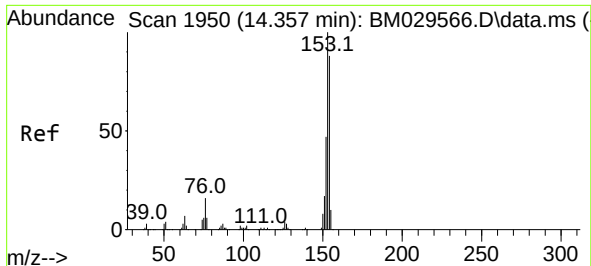
mohammad
4/28/2021 11:00:39 AM



#50
Dimethylphthalate
Concen: 2.02 ng
RT: 13.722 min Scan# 1842
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.3	4.9
164	9.1	7.9	11.9





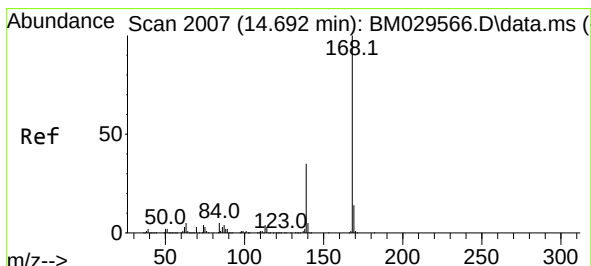
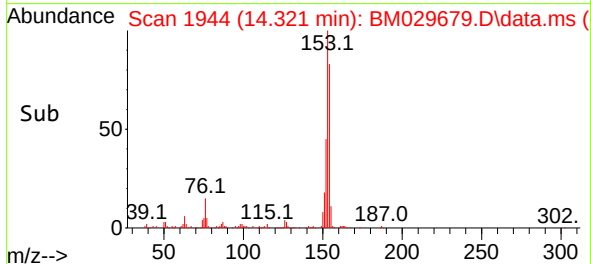
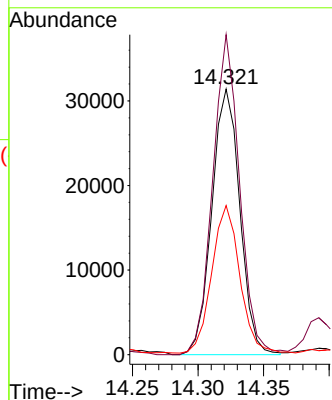
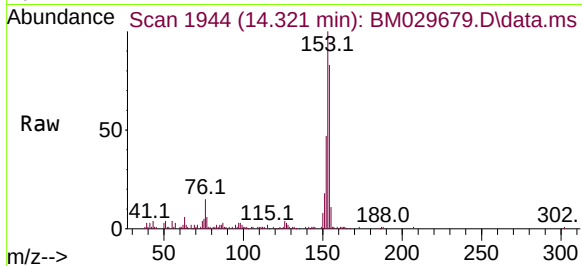
#52
Acenaphthene
Concen: 4.82 ng
RT: 14.321 min Scan# 1944
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:154 Resp: 46667
Ion Ratio Lower Upper
154 100
153 120.5 92.2 138.2
152 56.1 43.4 65.2

Instrument :
BNA_M
ClientSampleId :
DN-1

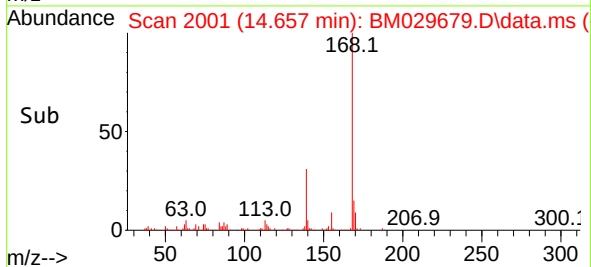
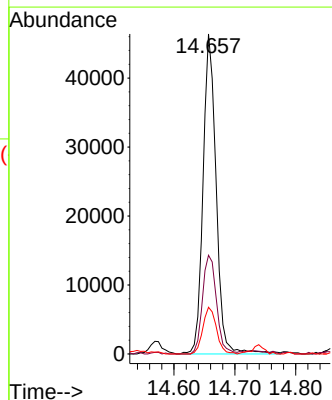
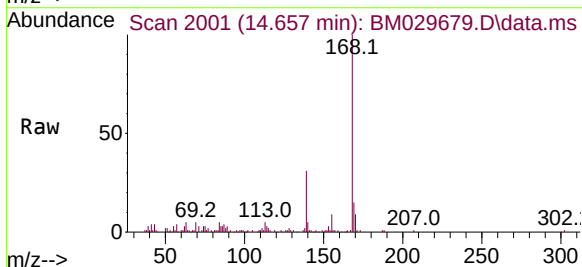
Manual Integrations
APPROVED

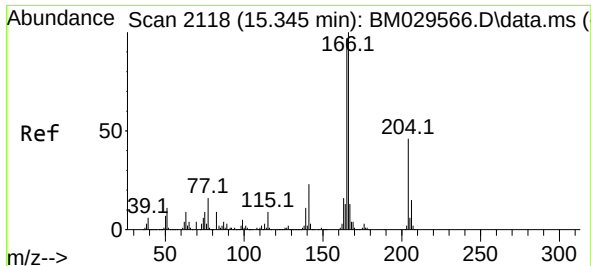
mohammad
4/28/2021 11:00:39 AM



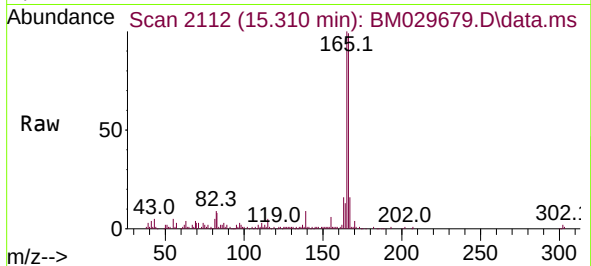
#55
Dibenzofuran
Concen: 4.23 ng
RT: 14.657 min Scan# 2001
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:168 Resp: 69294
Ion Ratio Lower Upper
168 100
139 30.8 29.4 44.0
169 14.6 10.8 16.2

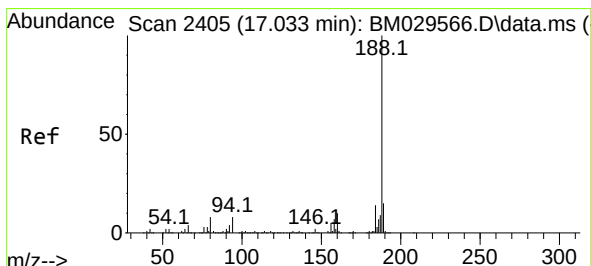
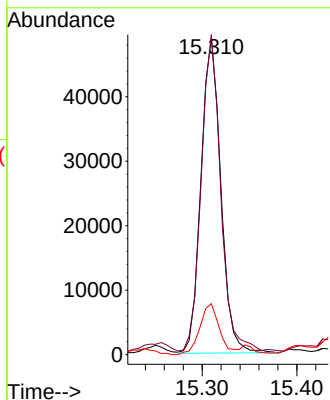
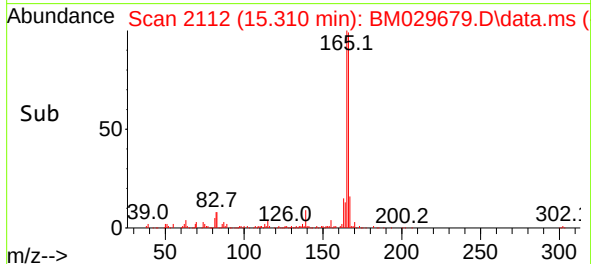




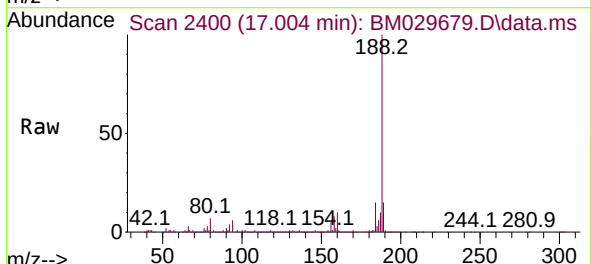
#58
Fluorene
Concen: 5.16 ng
RT: 15.310 min Scan# 2112
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



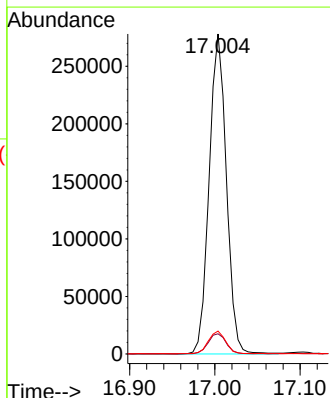
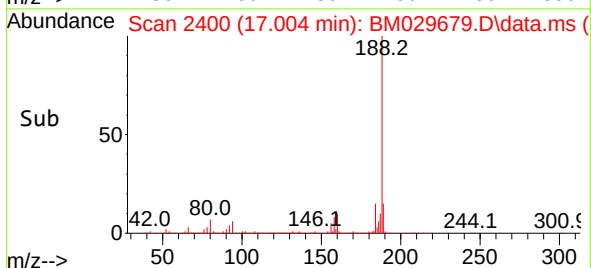
Tgt Ion:166 Resp: 70948
Ion Ratio Lower Upper
166 100
165 101.1 79.0 118.6
167 16.1 10.8 16.2



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.004 min Scan# 2400
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



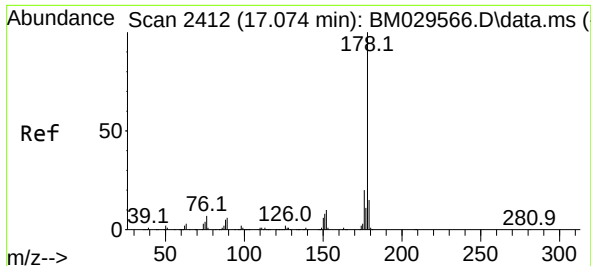
Tgt Ion:188 Resp: 392395
Ion Ratio Lower Upper
188 100
94 6.3 6.0 9.0
80 7.1 6.6 9.8



Instrument :
BNA_M
ClientSampleId :
DN-1

Manual Integrations
APPROVED

mohammad
4/28/2021 11:00:39 AM



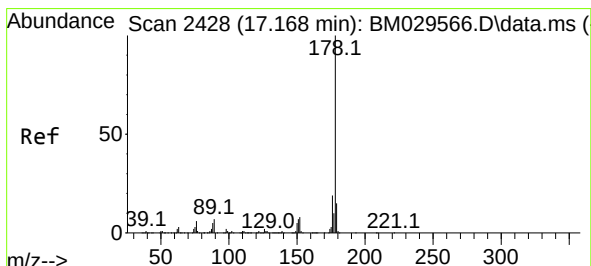
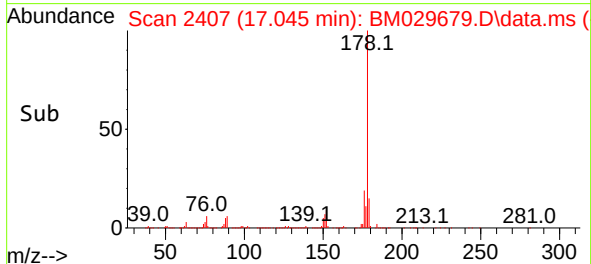
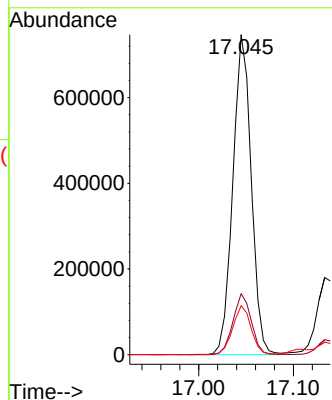
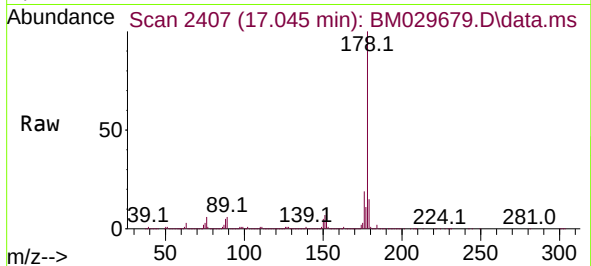
#71
Phenanthrene
Concen: 44.50 ng
RT: 17.045 min Scan# 2407
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:178 Resp: 1005414
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.3 12.2 18.4

Instrument :
BNA_M
ClientSampled :
DN-1

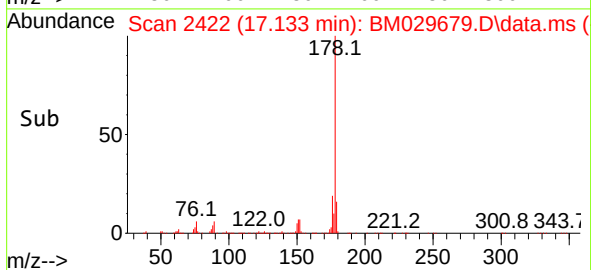
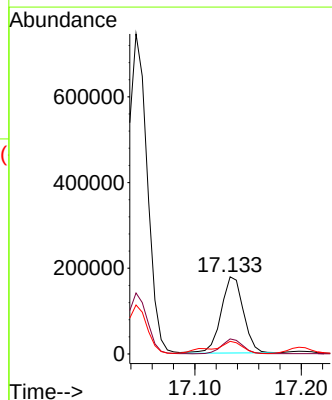
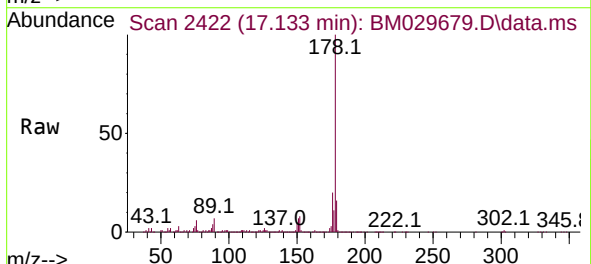
Manual Integrations
APPROVED

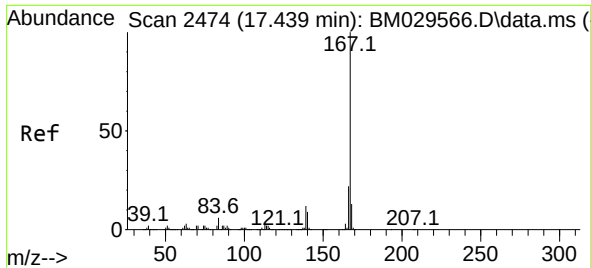
mohammad
4/28/2021 11:00:39 AM



#72
Anthracene
Concen: 11.63 ng
RT: 17.133 min Scan# 2422
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:178 Resp: 259154
Ion Ratio Lower Upper
178 100
176 19.5 15.0 22.4
179 16.3 12.5 18.7





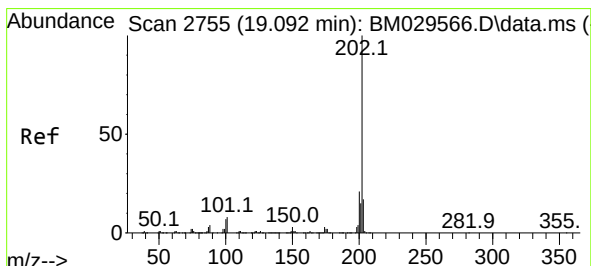
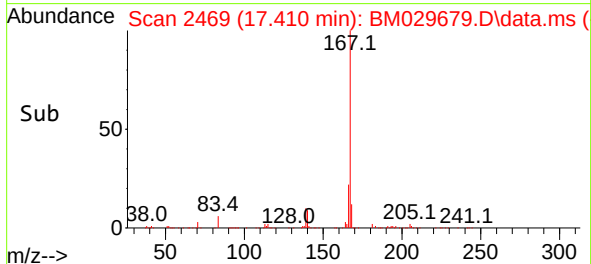
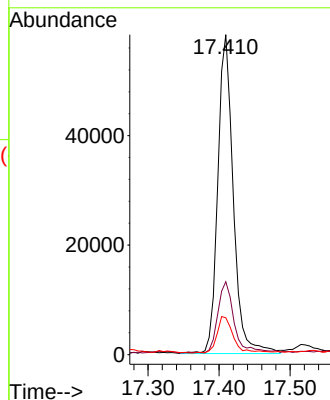
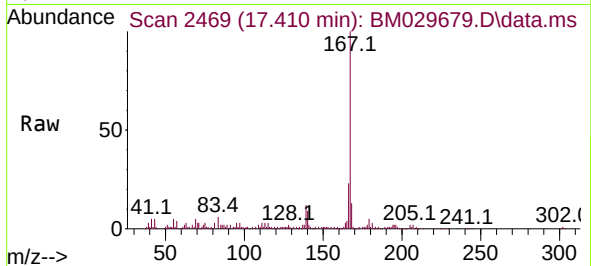
#73
 Carbazole
 Concen: 4.21 ng
 RT: 17.410 min Scan# 2469
 Delta R.T. -0.012 min
 Lab File: BM029679.D
 Acq: 27 Apr 2021 18:27

Tgt Ion:	167	Resp:	88019
Ion Ratio	Lower	Upper	
167	100		
166	22.8	17.4	26.0
139	11.5	9.8	14.6

Instrument :
 BNA_M
 ClientSampleId :
 DN-1

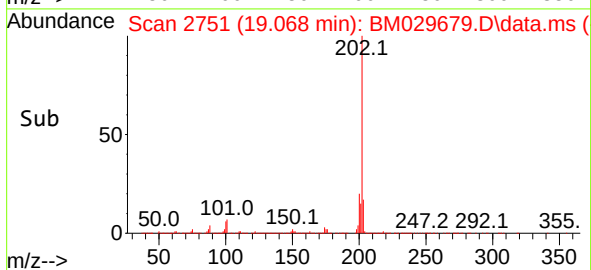
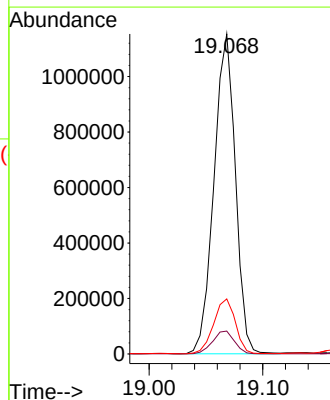
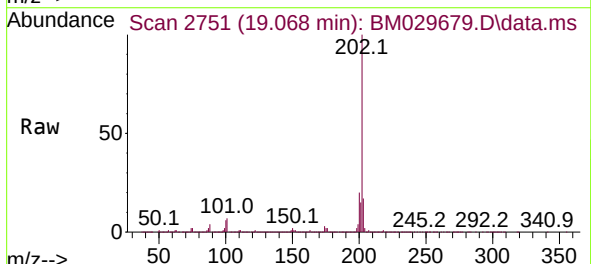
Manual Integrations
 APPROVED

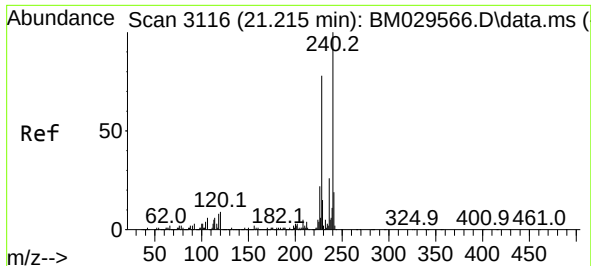
mohammad
 4/28/2021 11:00:39 AM



#75
 Fluoranthene
 Concen: 55.10 ng
 RT: 19.068 min Scan# 2751
 Delta R.T. -0.006 min
 Lab File: BM029679.D
 Acq: 27 Apr 2021 18:27

Tgt Ion:	202	Resp:	1509675
Ion Ratio	Lower	Upper	
202	100		
101	7.1	0.0	28.6
203	17.2	0.0	37.3





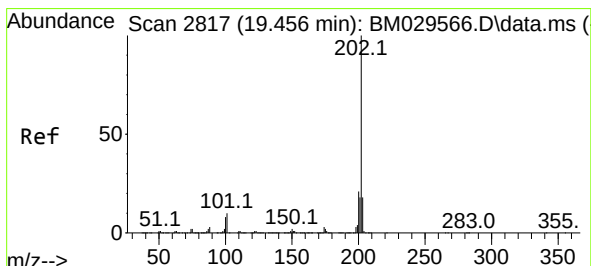
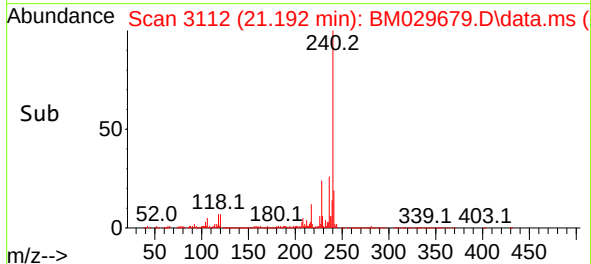
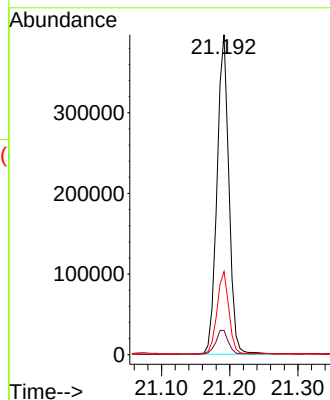
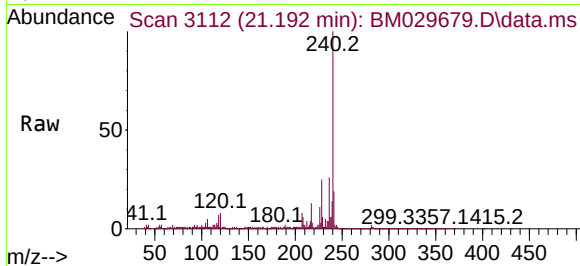
#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.192 min Scan# 3112
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:240 Resp: 482328
Ion Ratio Lower Upper
240 100
120 7.6 7.0 10.6
236 26.0 21.0 31.4

Instrument :
BNA_M
ClientSampleId :
DN-1

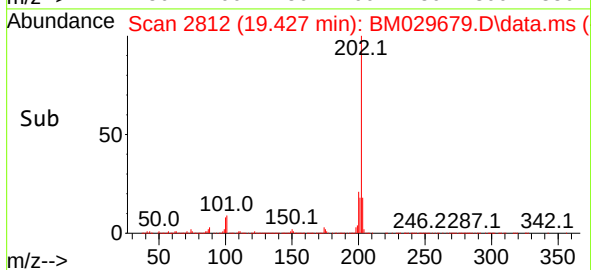
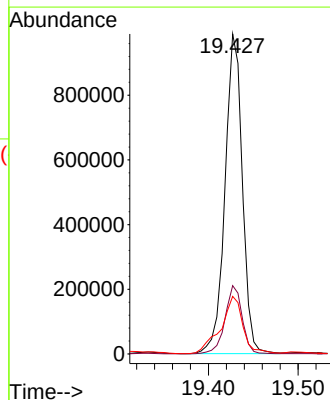
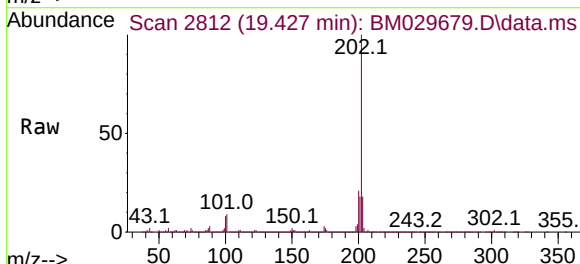
Manual Integrations
APPROVED

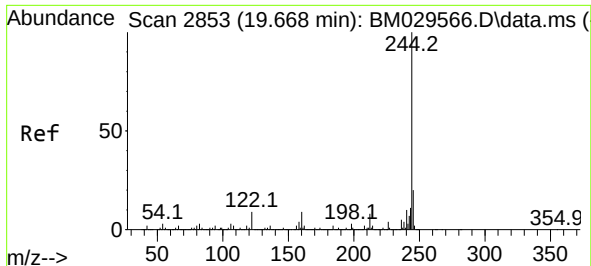
mohammad
4/28/2021 11:00:39 AM



#78
Pyrene
Concen: 42.80 ng
RT: 19.427 min Scan# 2812
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

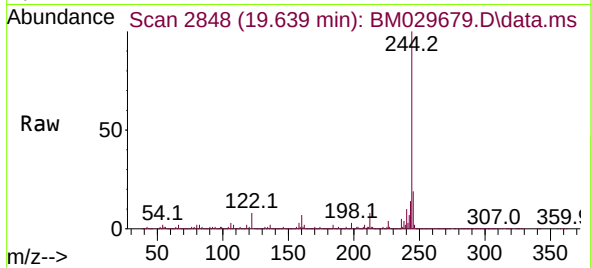
Tgt Ion:202 Resp: 1328154
Ion Ratio Lower Upper
202 100
200 21.3 17.3 25.9
203 18.0 13.9 20.9





#79
 Terphenyl-d14
 Concen: 53.46 ng
 RT: 19.639 min Scan# 2848
 Delta R.T. -0.006 min
 Lab File: BM029679.D
 Acq: 27 Apr 2021 18:27

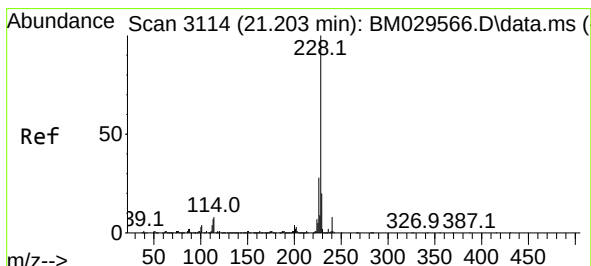
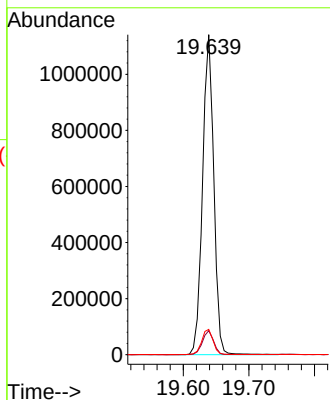
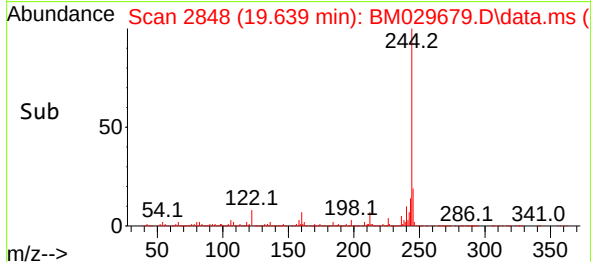
Instrument :
 BNA_M
 ClientSampled :
 DN-1



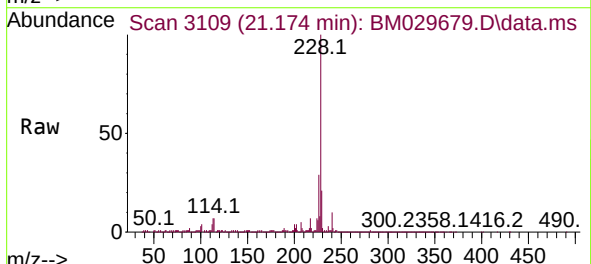
Tgt Ion:244 Resp: 1360116
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.3 9.5
 122 7.9 6.9 10.3

Manual Integrations
 APPROVED

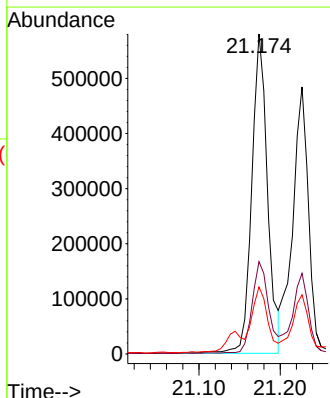
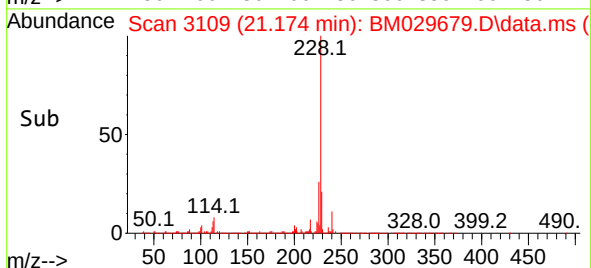
mohammad
 4/28/2021 11:00:39 AM

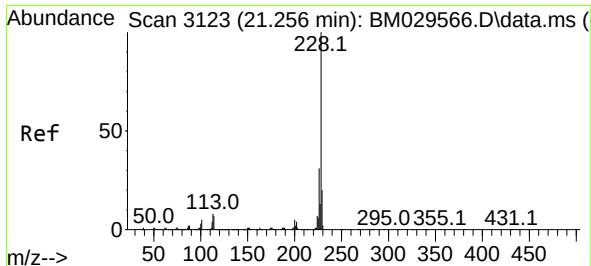


#81
 Benzo(a)anthracene
 Concen: 24.52 ng
 RT: 21.174 min Scan# 3109
 Delta R.T. -0.006 min
 Lab File: BM029679.D
 Acq: 27 Apr 2021 18:27



Tgt Ion:228 Resp: 782371
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.3 33.5
 229 21.0 15.7 23.5





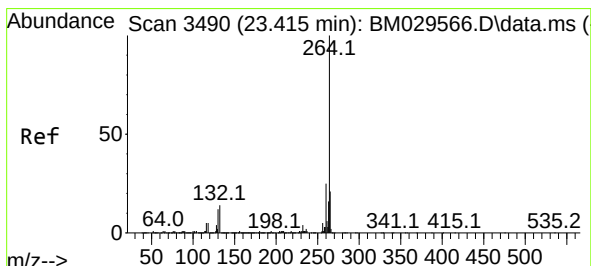
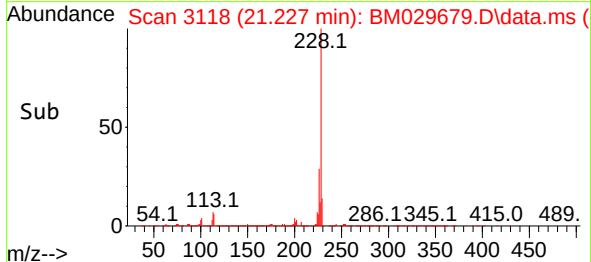
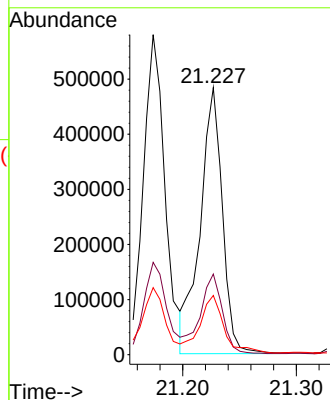
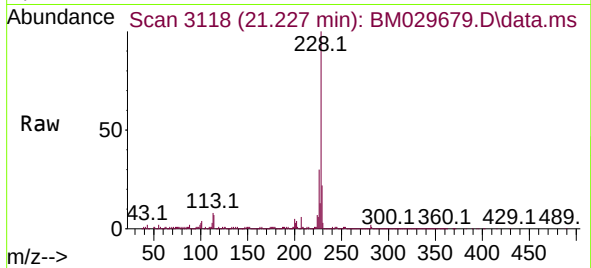
#83
Chrysene
Concen: 20.98 ng
RT: 21.227 min Scan# 3118
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:228 Resp: 657726
Ion Ratio Lower Upper
228 100
226 30.2 24.6 36.8
229 22.2 15.5 23.3

Instrument :
BNA_M
ClientSampleId :
DN-1

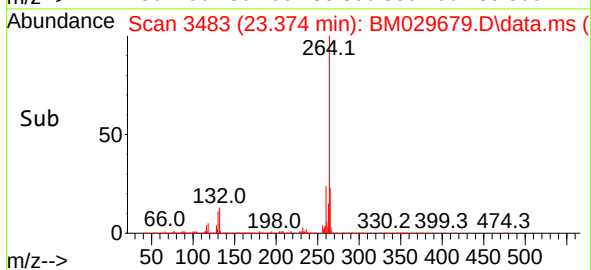
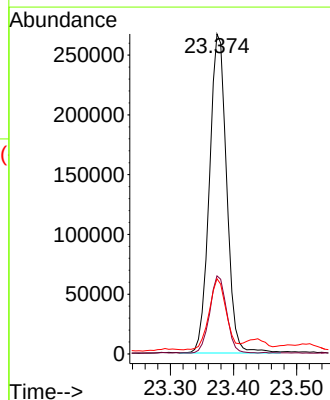
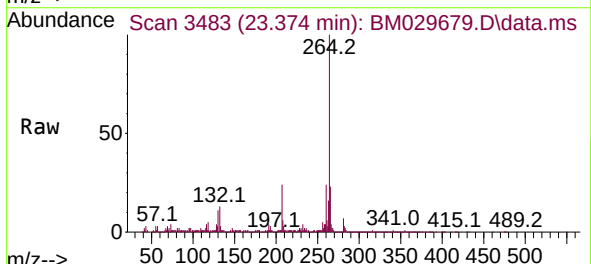
Manual Integrations
APPROVED

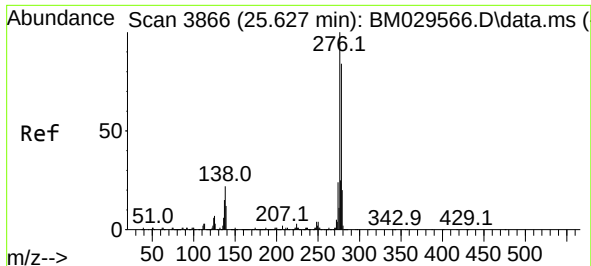
mohammad
4/28/2021 11:00:39 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 23.374 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion:264 Resp: 506305
Ion Ratio Lower Upper
264 100
260 24.4 19.8 29.8
265 23.5 17.7 26.5





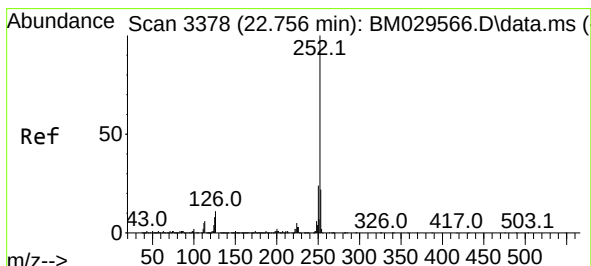
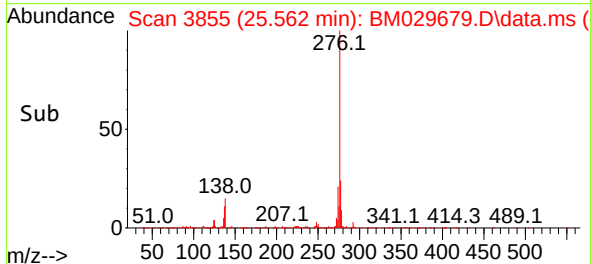
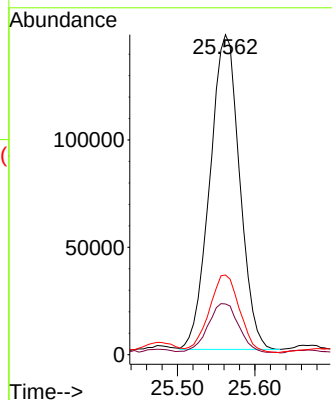
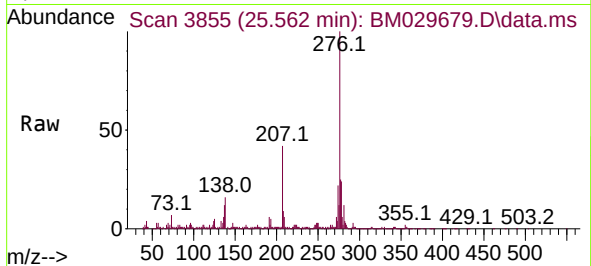
#87
Indeno(1,2,3-cd)pyrene
Concen: 10.02 ng
RT: 25.562 min Scan# 3855
Delta R.T. -0.018 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

Tgt Ion: 276 Resp: 392079
Ion Ratio Lower Upper
276 100
138 16.4 17.1 25.7#
277 25.3 20.3 30.5

Instrument :
BNA_M
ClientSampled :
DN-1

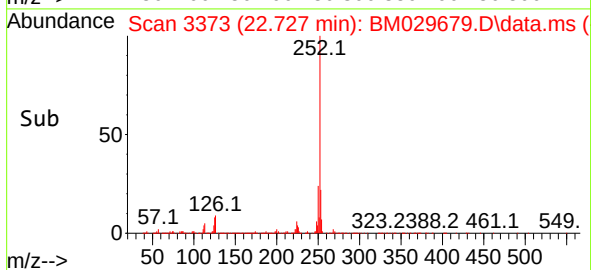
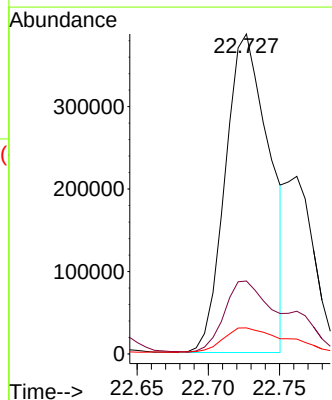
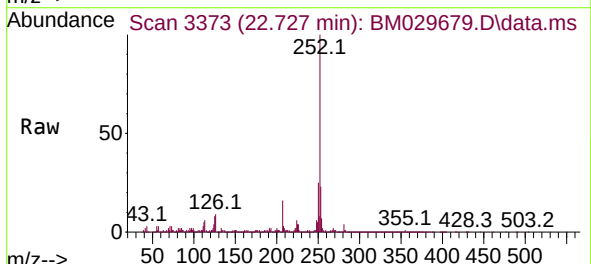
Manual Integrations
APPROVED

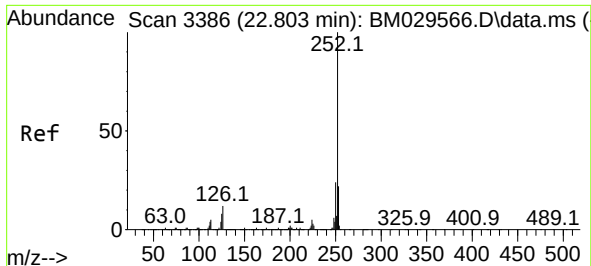
mohammad
4/28/2021 11:00:39 AM



#88
Benzo(b)fluoranthene
Concen: 25.15 ng m
RT: 22.727 min Scan# 3373
Delta R.T. 0.000 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

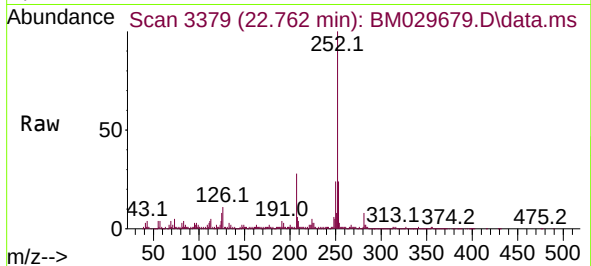
Tgt Ion: 252 Resp: 830538
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 8.2 6.8 10.2





#89
Benzo(k)fluoranthene
Concen: 8.87 ng m
RT: 22.762 min Scan# 3379
Delta R.T. -0.012 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

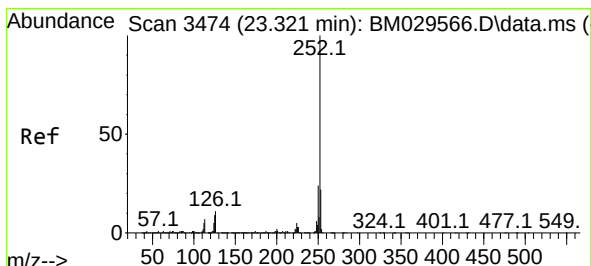
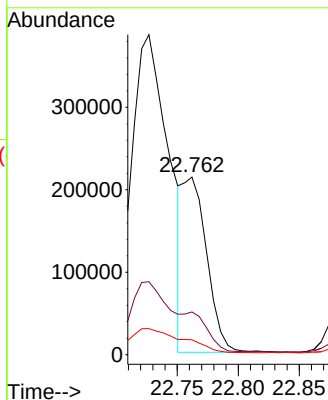
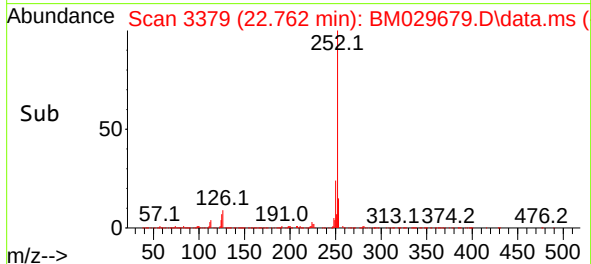
Instrument :
BNA_M
ClientSampled :
DN-1



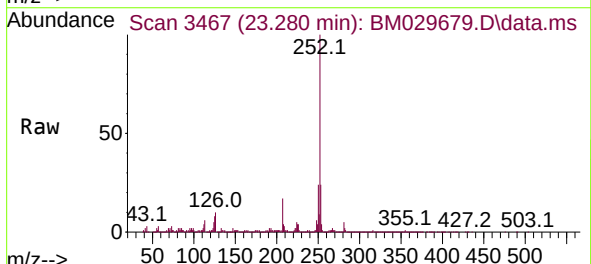
Tgt Ion:252 Resp: 293625
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.2
125 8.4 6.2 9.2

Manual Integrations
APPROVED

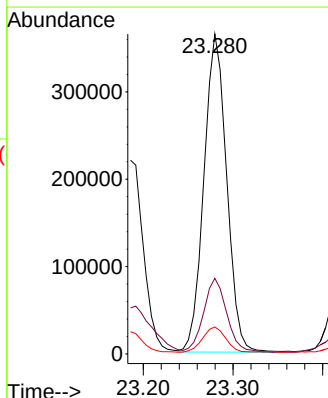
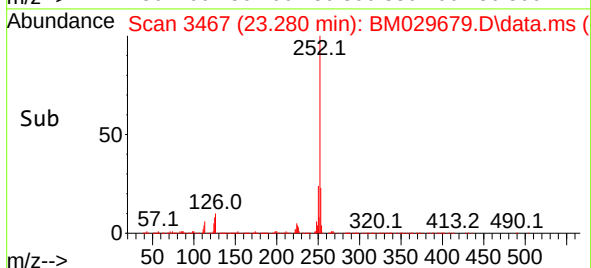
mohammad
4/28/2021 11:00:39 AM

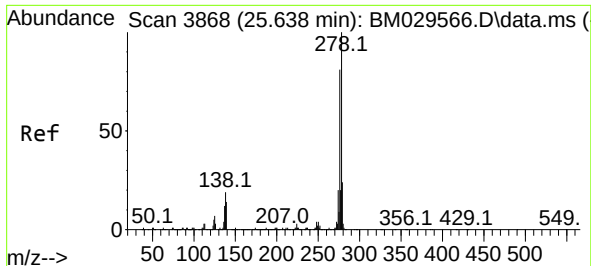


#90
Benzo(a)pyrene
Concen: 20.68 ng
RT: 23.280 min Scan# 3467
Delta R.T. -0.006 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



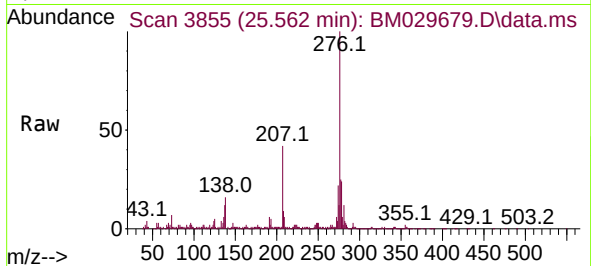
Tgt Ion:252 Resp: 641154
Ion Ratio Lower Upper
252 100
253 23.6 17.7 26.5
125 8.5 7.3 10.9





#91
Dibenzo(a,h)anthracene
Concen: 3.20 ng m
RT: 25.562 min Scan# 3855
Delta R.T. -0.029 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27

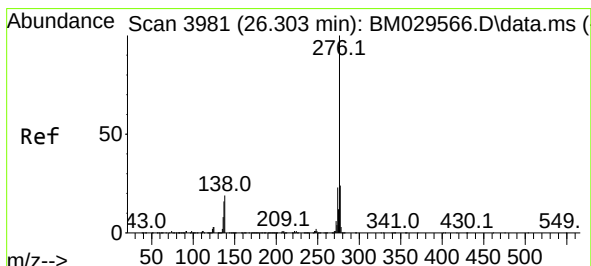
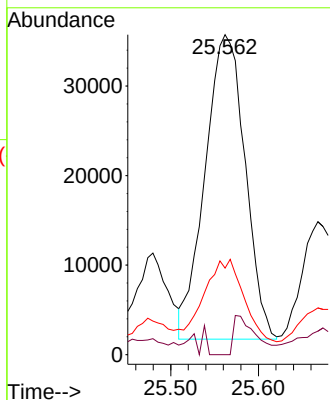
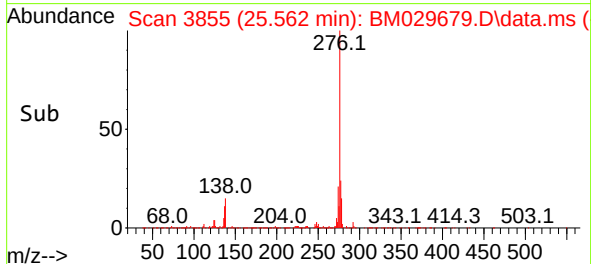
Instrument :
BNA_M
ClientSampleId :
DN-1



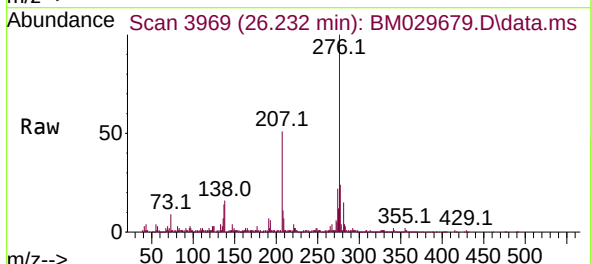
Tgt Ion:278 Resp: 107912
Ion Ratio Lower Upper
278 100
139 0.0 11.0 16.4#
279 27.1 18.7 28.1

Manual Integrations
APPROVED

mohammad
4/28/2021 11:00:39 AM



#92
Benzo(g,h,i)perylene
Concen: 11.68 ng
RT: 26.232 min Scan# 3969
Delta R.T. -0.018 min
Lab File: BM029679.D
Acq: 27 Apr 2021 18:27



Tgt Ion:276 Resp: 364581
Ion Ratio Lower Upper
276 100
277 24.0 19.4 29.2
138 15.9 14.4 21.6

