

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092721\
 Data File : BP007208.D
 Acq On : 27 Sep 2021 16:41
 Operator : CG/JU
 Sample : M3935-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-1-S

Manual Integrations
 APPROVED

mohammad
 9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

Quant Time: Sep 27 17:47:33 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP092121.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 23 11:17:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.881	152	332035	20.000	ng	-0.01
21) Naphthalene-d8	10.681	136	1289308	20.000	ng	#-0.01
39) Acenaphthene-d10	14.516	164	806138	20.000	ng	-0.01
64) Phenanthrene-d10	17.269	188	1519842	20.000	ng	0.00
76) Chrysene-d12	21.357	240	1075788	20.000	ng	0.00
86) Perylene-d12	23.774	264	1160261	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	1441797	72.688	ng	0.00
7) Phenol-d6	7.057	99	1786944	65.914	ng	0.00
23) Nitrobenzene-d5	9.045	82	1082170	48.880	ng	-0.01
42) 2,4,6-Tribromophenol	16.010	330	803291	76.861	ng	0.00
45) 2-Fluorobiphenyl	13.139	172	2778157	49.372	ng	-0.01
79) Terphenyl-d14	19.827	244	3034196	54.047	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.345	142	94127	2.043	ng	96
52) Acenaphthene	14.580	154	462142	10.662	ng	98
55) Dibenzofuran	14.916	168	526362	7.279	ng	96
58) Fluorene	15.563	166	695274	12.445	ng	100
71) Phenanthrene	17.316	178	6817085	83.652	ng	98
72) Anthracene	17.404	178	1747870	21.925	ng	100
73) Carbazole	17.674	167	996451	12.756	ng	98
75) Fluoranthene	19.286	202	7090276	75.517	ng	98
78) Pyrene	19.633	202	5632837	79.806	ng	97
81) Benzo(a)anthracene	21.339	228	2555900	36.602	ng	98
83) Chrysene	21.392	228	2243228	33.612	ng	96
87) Indeno(1,2,3-cd)pyrene	26.303	276	1196911	14.354	ng	98
88) Benzo(b)fluoranthene	23.039	252	2764231	39.865	ng	96
89) Benzo(k)fluoranthene	23.080	252	851943m	12.135	ng	
90) Benzo(a)pyrene	23.662	252	1918585	32.568	ng	96
91) Dibenz(a,h)anthracene	26.303	278	339292	4.856	ng	# 83
92) Benzo(g,h,i)perylene	27.080	276	1083871	15.895	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092721\
Data File : BP007208.D
Acq On : 27 Sep 2021 16:41
Operator : CG/JU
Sample : M3935-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

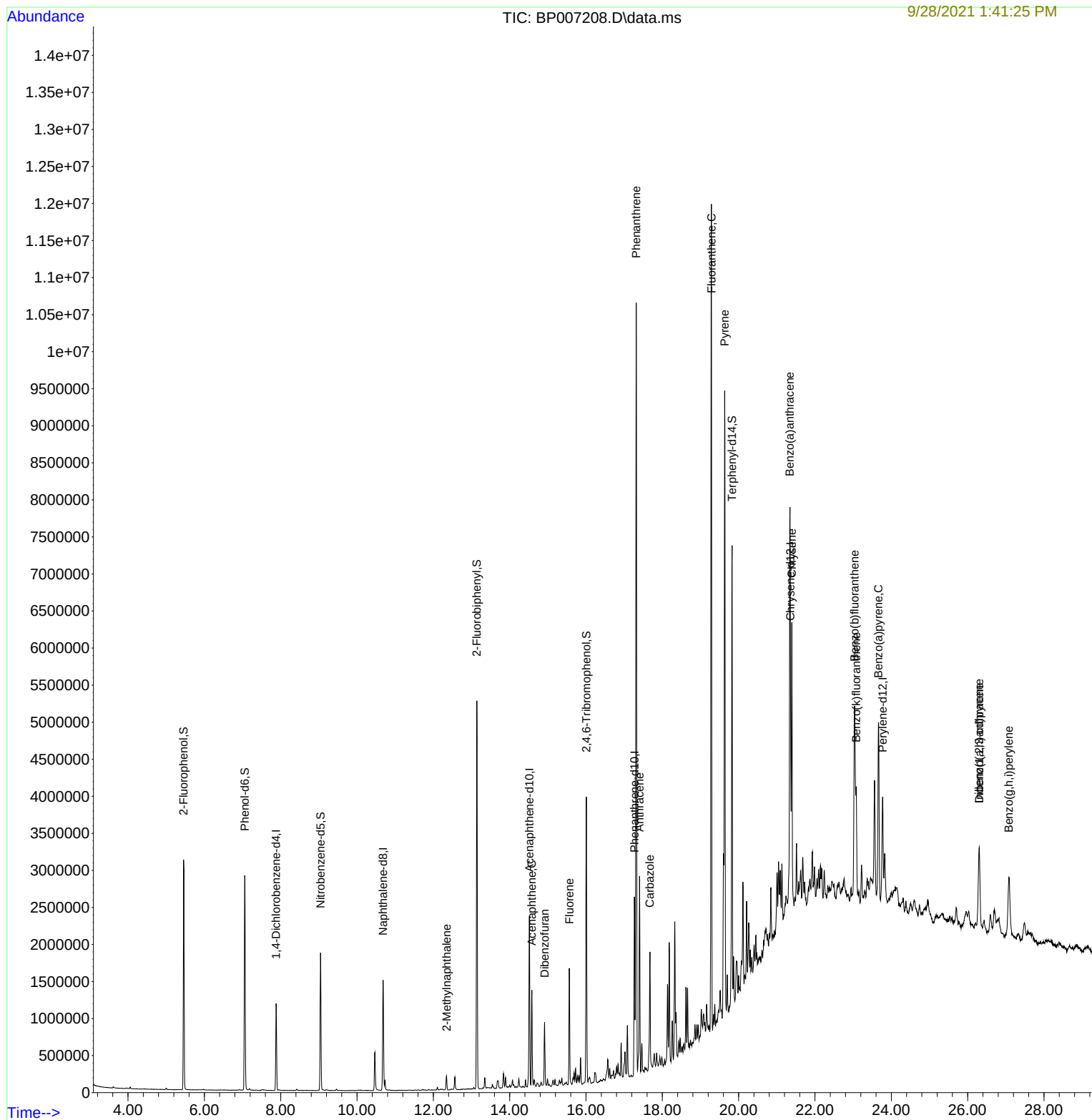
Instrument :
BNA_P
ClientSampled :
TP-1-S

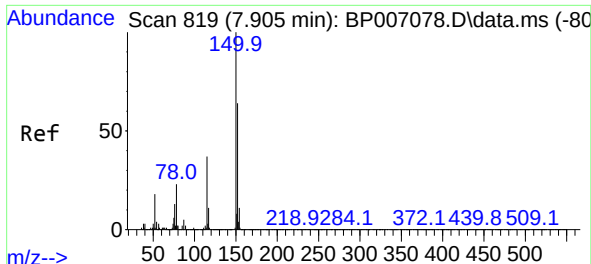
Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

Quant Time: Sep 27 17:47:33 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP092121.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 23 11:17:25 2021
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.881 min Scan# 815
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:152 Resp: 332035
Ion Ratio Lower Upper
152 100
150 156.0 125.6 188.4
115 57.3 48.5 72.7

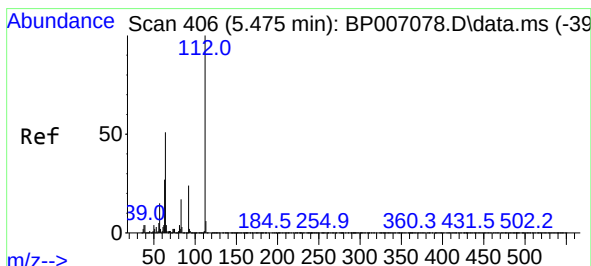
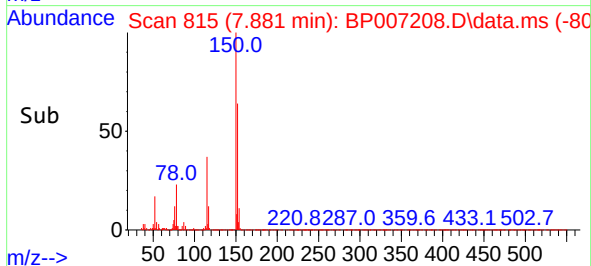
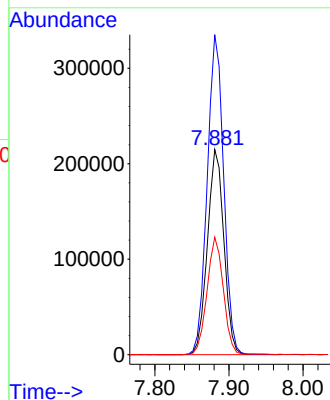
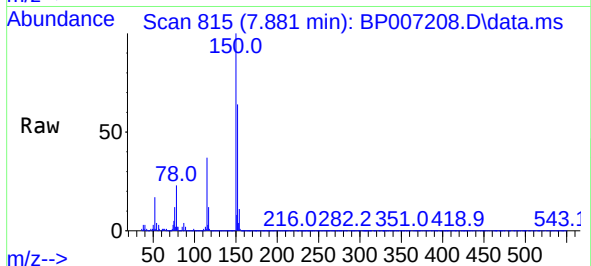
Instrument :
BNA_P
ClientSampleId :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

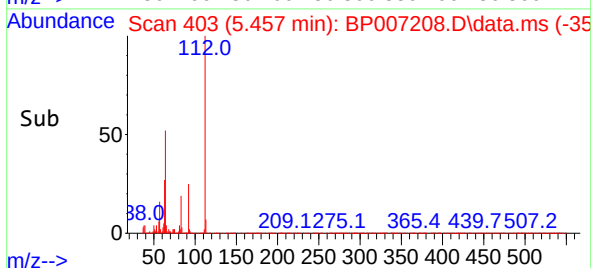
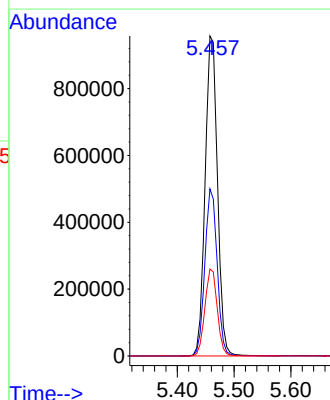
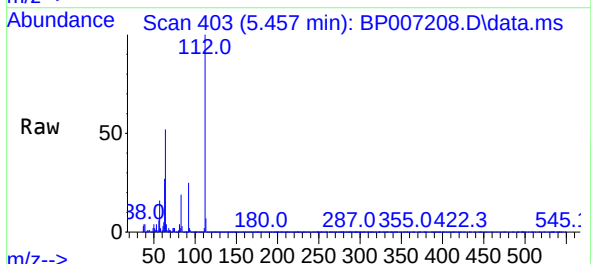
9/28/2021 1:41:25 PM

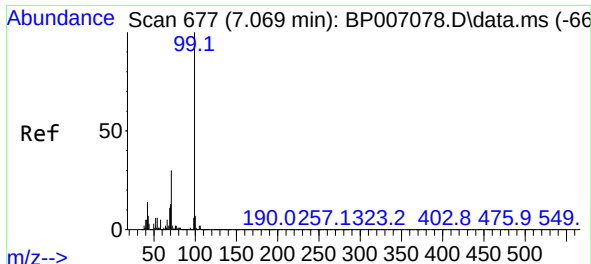
9/28/2021 1:41:25 PM



#5
2-Fluorophenol
Concen: 72.688 ng
RT: 5.457 min Scan# 403
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

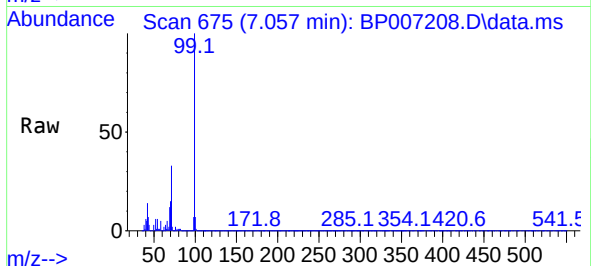
Tgt Ion:112 Resp: 1441797
Ion Ratio Lower Upper
112 100
64 52.2 41.4 62.2
63 27.2 23.8 35.8





#7
Phenol-d6
Concen: 65.914 ng
RT: 7.057 min Scan# 675
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Instrument :
BNA_P
ClientSampled :
TP-1-S



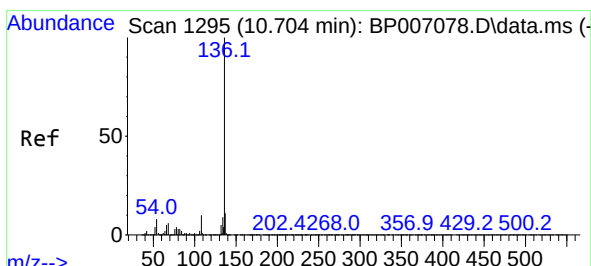
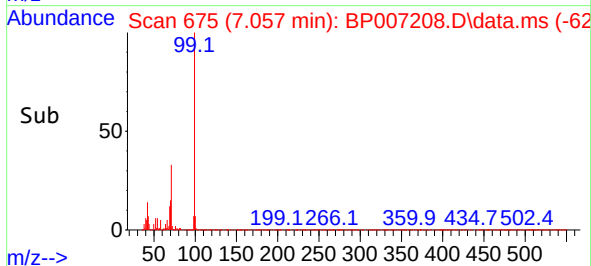
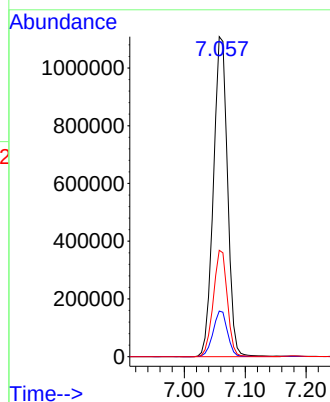
Tgt Ion: 99 Resp: 1786944
Ion Ratio Lower Upper
99 100
42 14.3 13.4 20.0
71 33.3 30.6 46.0

Manual Integrations
APPROVED

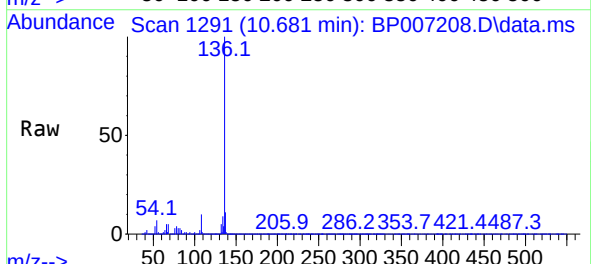
mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

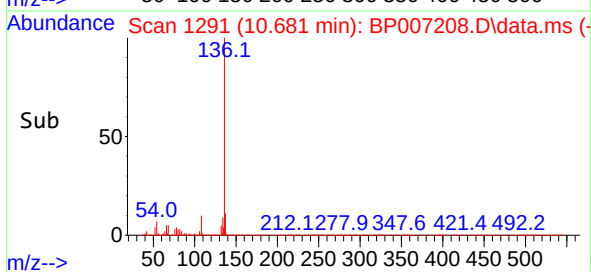
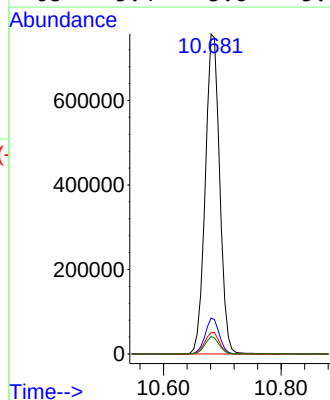
9/28/2021 1:41:25 PM

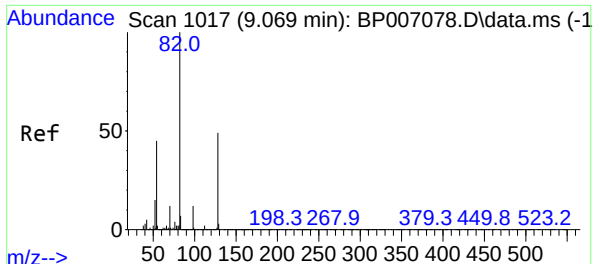


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.681 min Scan# 1291
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



Tgt Ion: 136 Resp: 1289308
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 6.7 4.6 6.8
68 5.4 3.6 5.4





#23
Nitrobenzene-d5
Concen: 48.880 ng
RT: 9.045 min Scan# 1013
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 82 Resp: 1082170

Ion	Ratio	Lower	Upper
82	100		
128	48.3	35.7	53.5
54	44.9	35.0	52.4

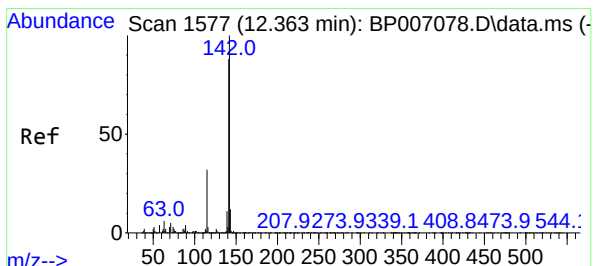
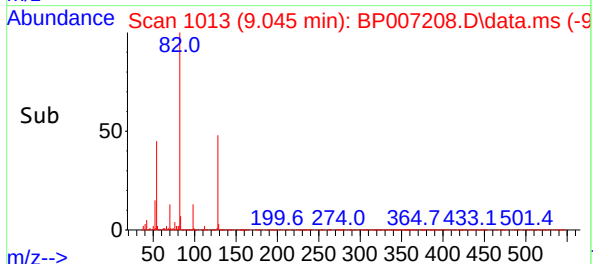
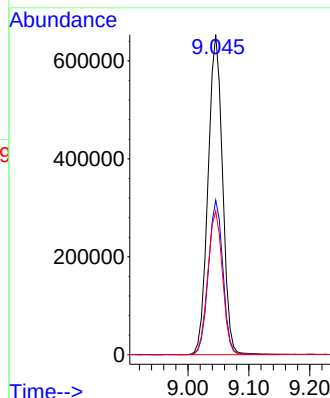
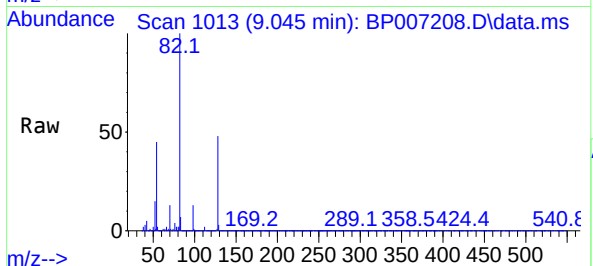
Instrument :
BNA_P
ClientSampleId :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

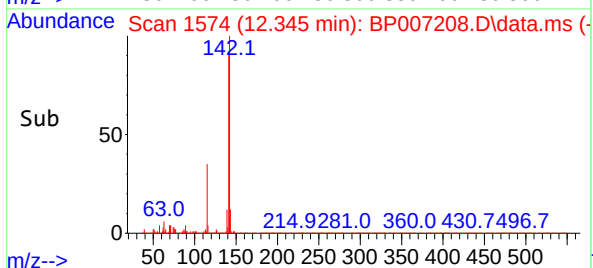
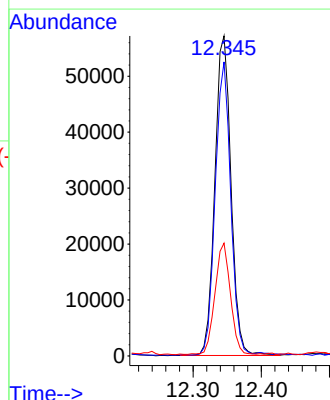
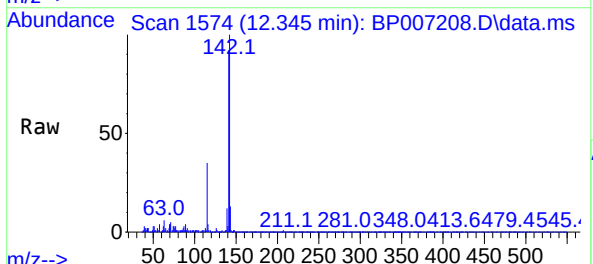
9/28/2021 1:41:25 PM

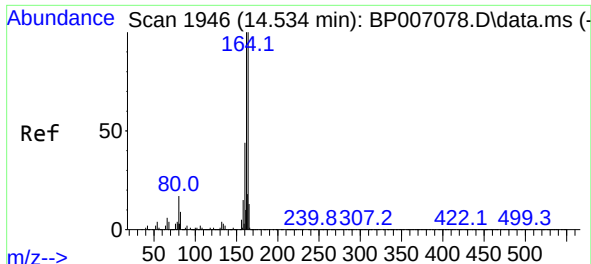


#37
2-Methylnaphthalene
Concen: 2.043 ng
RT: 12.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 142 Resp: 94127

Ion	Ratio	Lower	Upper
142	100		
141	91.9	71.8	107.6
115	35.2	31.6	47.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.516 min Scan# 1943
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:164 Resp: 806138
Ion Ratio Lower Upper
164 100
162 100.1 80.2 120.2
160 43.9 34.5 51.7

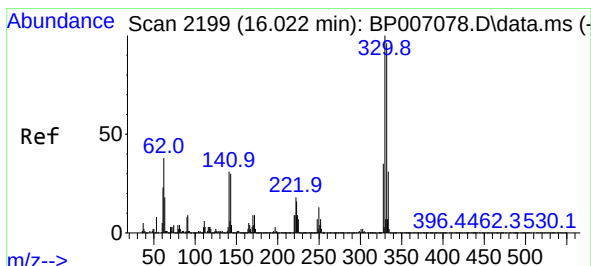
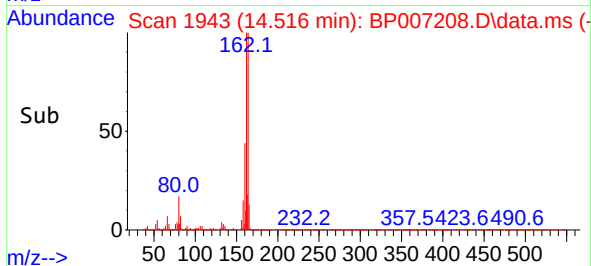
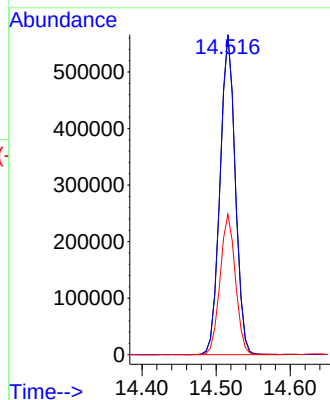
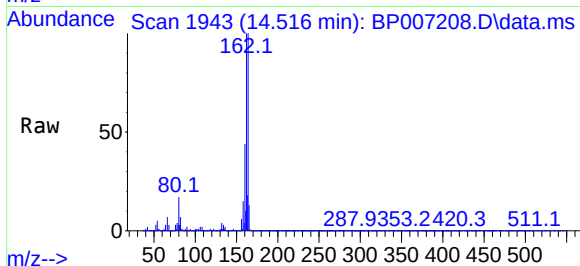
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

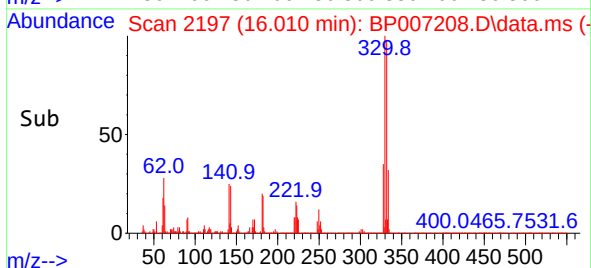
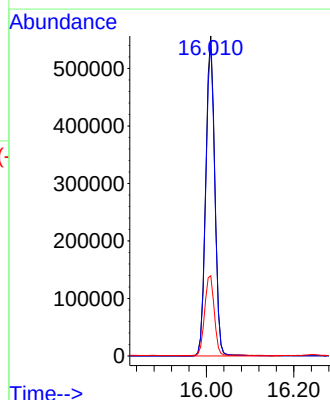
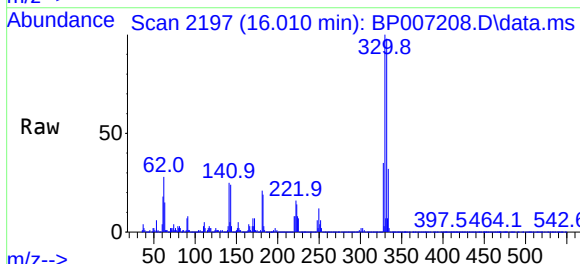
9/28/2021 1:41:25 PM

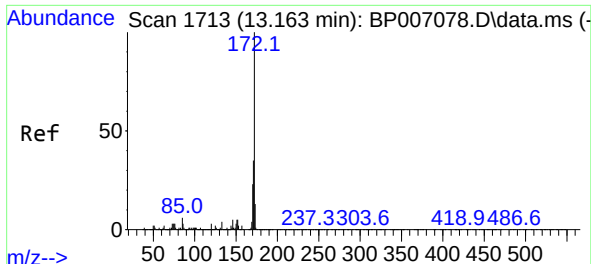
9/28/2021 1:41:25 PM



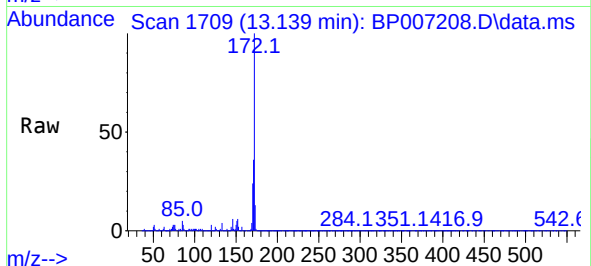
#42
2,4,6-Tribromophenol
Concen: 76.861 ng
RT: 16.010 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:330 Resp: 803291
Ion Ratio Lower Upper
330 100
332 96.8 77.8 116.8
141 26.4 25.4 38.2

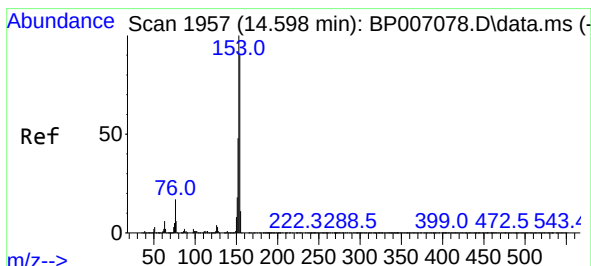
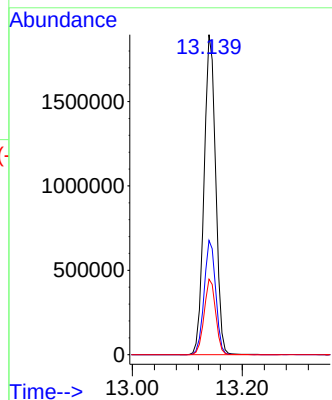
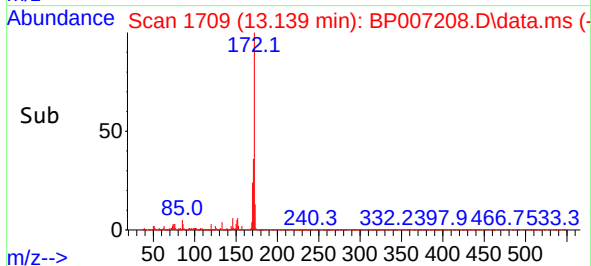




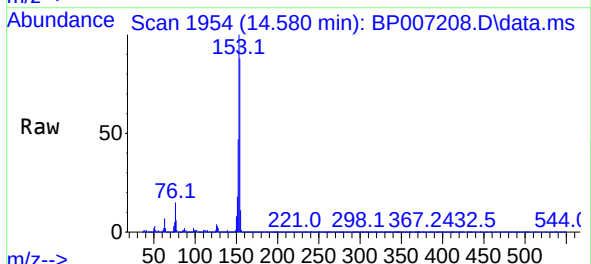
#45
2-Fluorobiphenyl
Concen: 49.372 ng
RT: 13.139 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



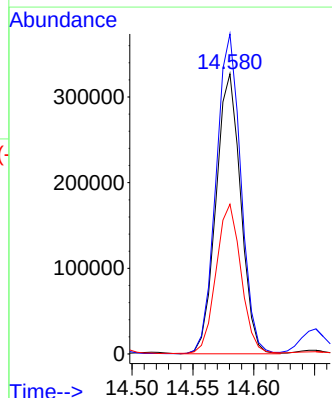
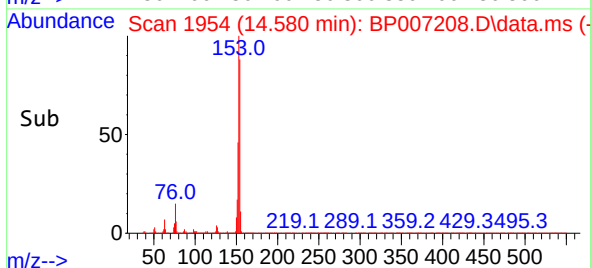
Tgt Ion:172 Resp: 2778157
Ion Ratio Lower Upper
172 100
171 35.7 27.9 41.9
170 23.6 18.6 27.8



#52
Acenaphthene
Concen: 10.662 ng
RT: 14.580 min Scan# 1954
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



Tgt Ion:154 Resp: 462142
Ion Ratio Lower Upper
154 100
153 114.2 89.4 134.2
152 53.4 43.0 64.4



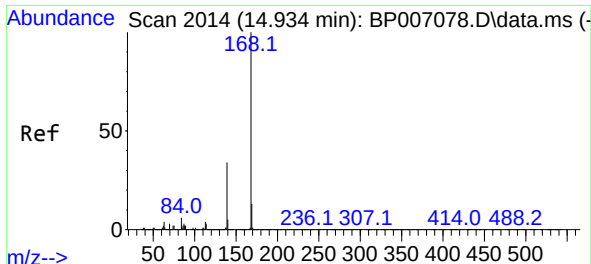
Instrument :
BNA_P
ClientSampleId :
TP-1-S

Manual Integrations
APPROVED

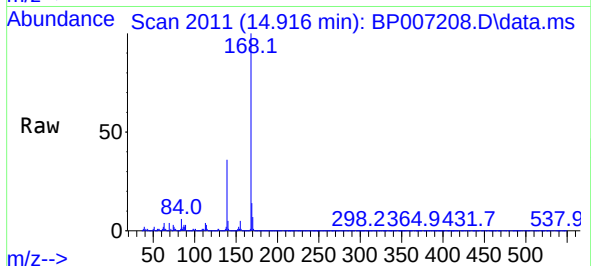
mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

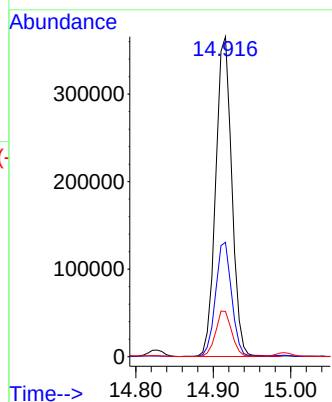
9/28/2021 1:41:25 PM



#55
Dibenzenofuran
Concen: 7.279 ng
RT: 14.916 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



Tgt Ion:168 Resp: 526362
Ion Ratio Lower Upper
168 100
139 35.7 31.0 46.6
169 14.2 10.8 16.2



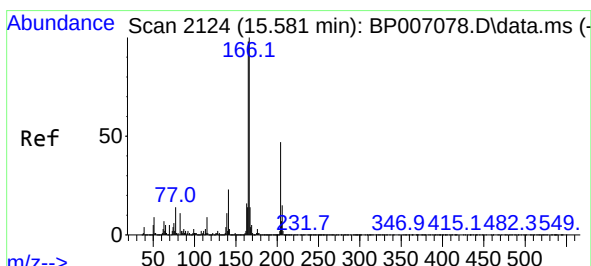
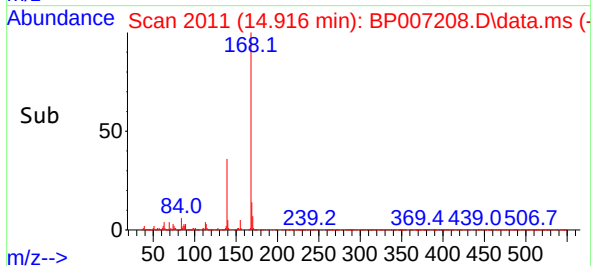
Instrument :
BNA_P
ClientSampleId :
TP-1-S

Manual Integrations
APPROVED

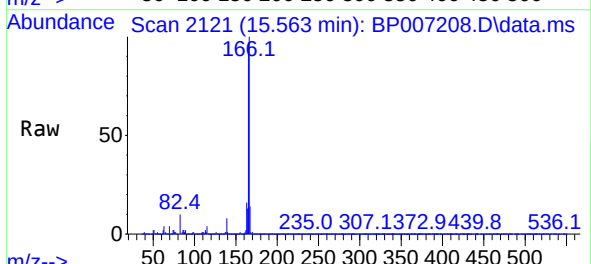
mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

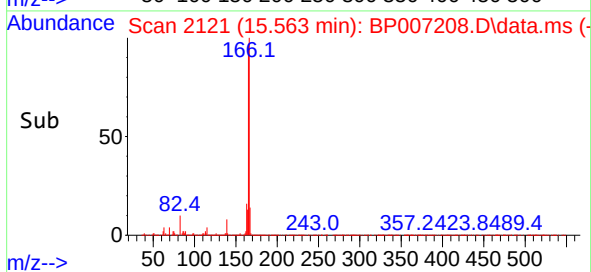
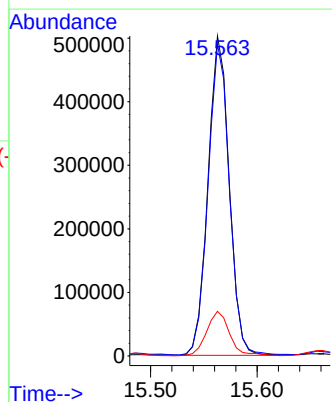
9/28/2021 1:41:25 PM

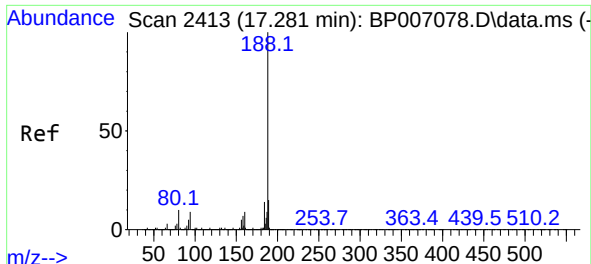


#58
Fluorene
Concen: 12.445 ng
RT: 15.563 min Scan# 2121
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



Tgt Ion:166 Resp: 695274
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 14.0 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.269 min Scan# 2411
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:188 Resp: 1519842
Ion Ratio Lower Upper
188 100
94 7.8 5.6 8.4
80 8.4 6.3 9.5

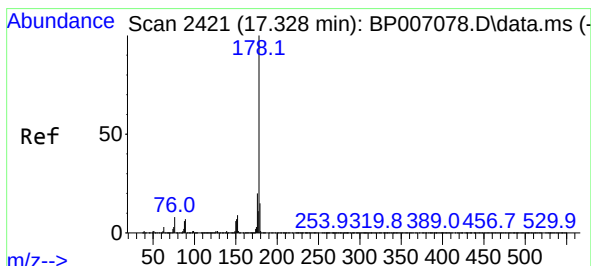
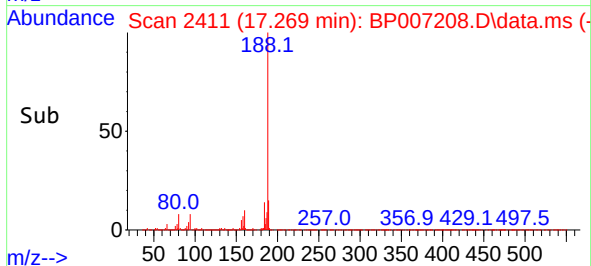
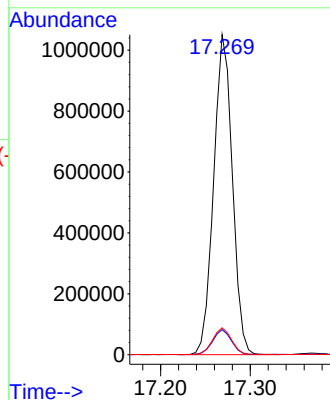
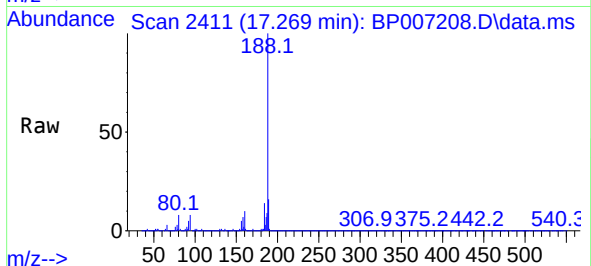
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

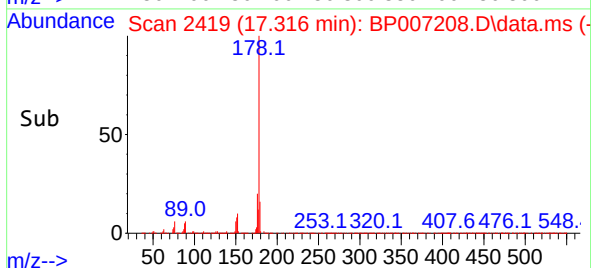
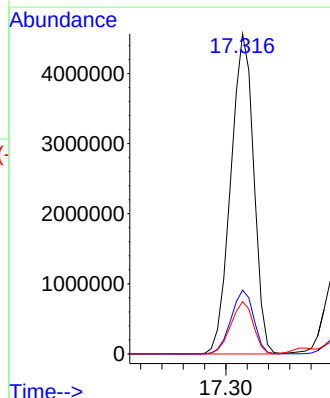
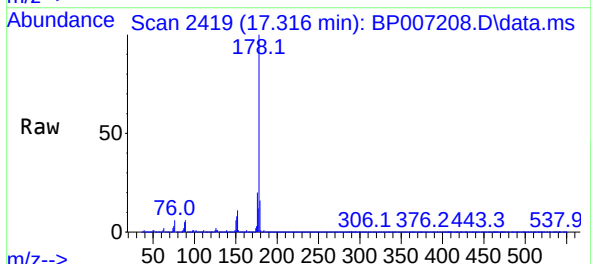
9/28/2021 1:41:25 PM

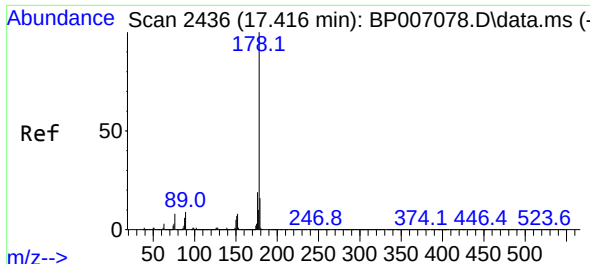
9/28/2021 1:41:25 PM



#71
Phenanthrene
Concen: 83.652 ng
RT: 17.316 min Scan# 2419
Delta R.T. -0.000 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:178 Resp: 6817085
Ion Ratio Lower Upper
178 100
176 19.9 15.1 22.7
179 16.4 12.4 18.6





#72
 Anthracene
 Concen: 21.925 ng
 RT: 17.404 min Scan# 2434
 Delta R.T. -0.006 min
 Lab File: BP007208.D
 Acq: 27 Sep 2021 16:41

Tgt Ion:178 Resp: 1747870
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.9 22.3
 179 15.6 12.2 18.2

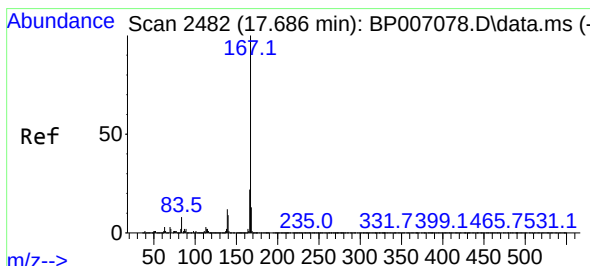
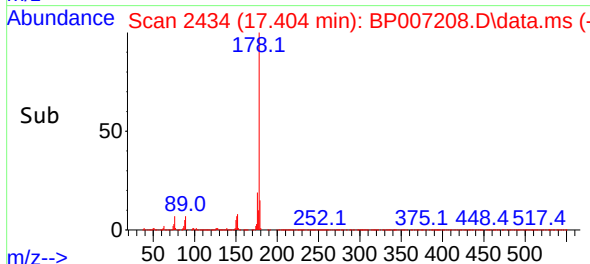
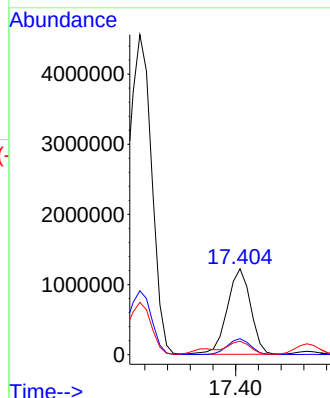
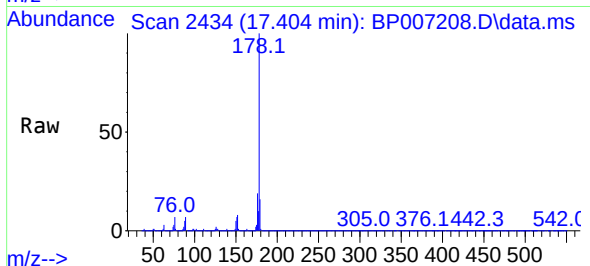
Instrument :
 BNA_P
 ClientSampled :
 TP-1-S

Manual Integrations
 APPROVED

mohammad
 9/28/2021 1:41:25 PM

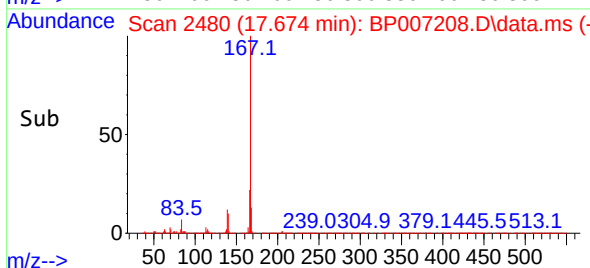
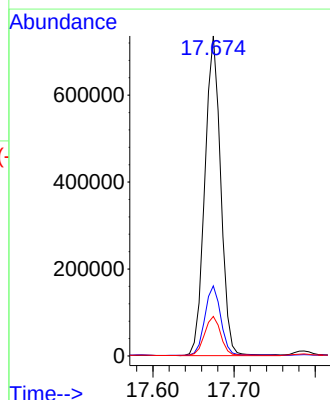
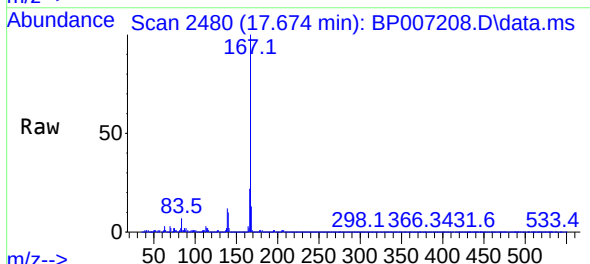
9/28/2021 1:41:25 PM

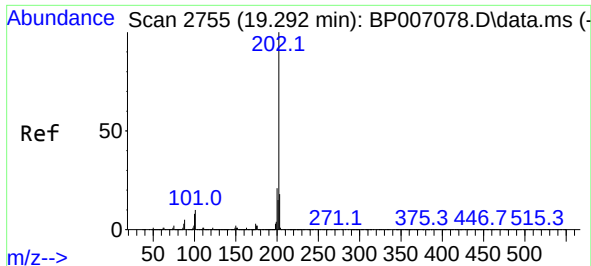
9/28/2021 1:41:25 PM



#73
 Carbazole
 Concen: 12.756 ng
 RT: 17.674 min Scan# 2480
 Delta R.T. -0.006 min
 Lab File: BP007208.D
 Acq: 27 Sep 2021 16:41

Tgt Ion:167 Resp: 996451
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.1 25.7
 139 12.4 10.7 16.1





#75
Fluoranthene
Concen: 75.517 ng
RT: 19.286 min Scan# 2754
Delta R.T. 0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 202 Resp: 7090276
Ion Ratio Lower Upper
202 100
101 8.1 0.0 27.6
203 18.7 0.0 37.8

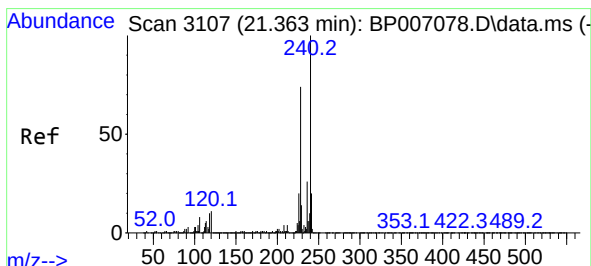
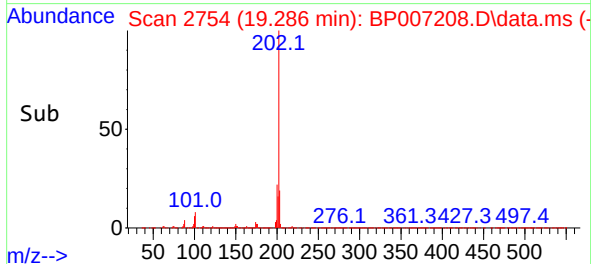
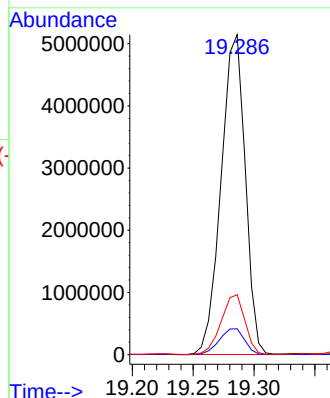
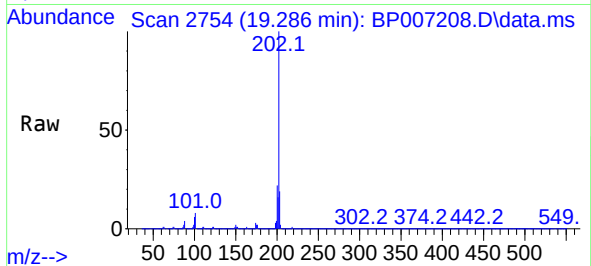
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

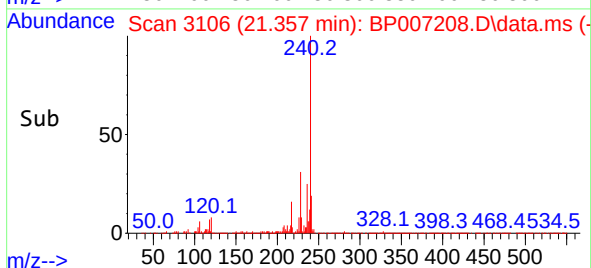
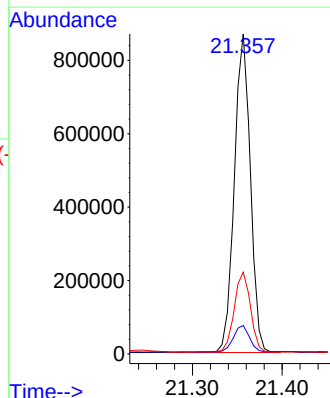
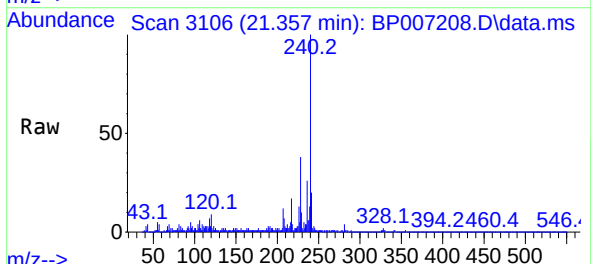
9/28/2021 1:41:25 PM

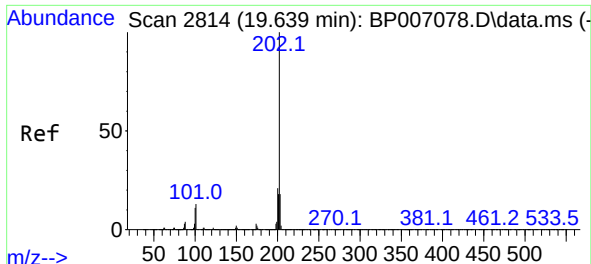
9/28/2021 1:41:25 PM



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.357 min Scan# 3106
Delta R.T. -0.000 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 240 Resp: 1075788
Ion Ratio Lower Upper
240 100
120 8.9 6.5 9.7
236 25.5 20.6 31.0





#78
Pyrene
Concen: 79.806 ng
RT: 19.633 min Scan# 2813
Delta R.T. -0.000 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:202 Resp: 5632837
Ion Ratio Lower Upper
202 100
200 21.8 16.3 24.5
203 18.9 14.2 21.2

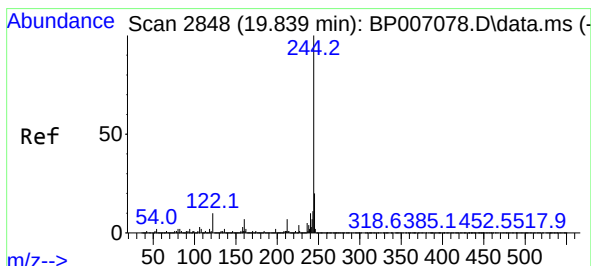
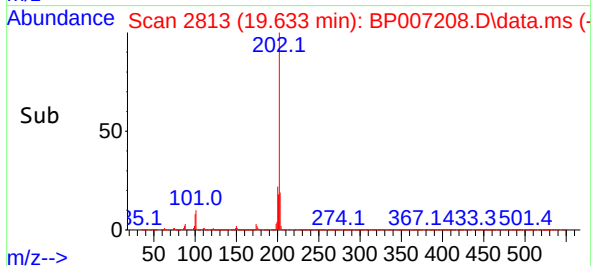
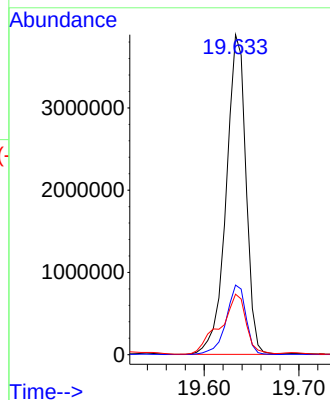
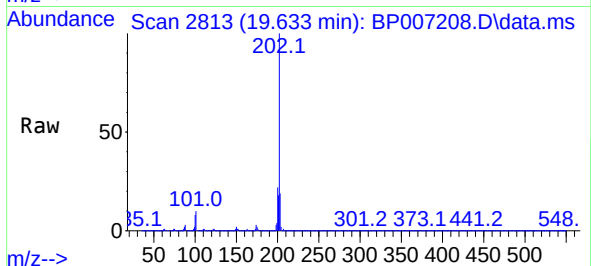
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

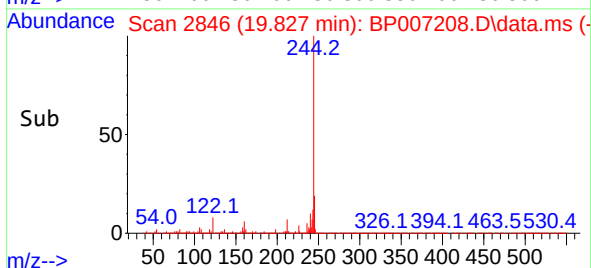
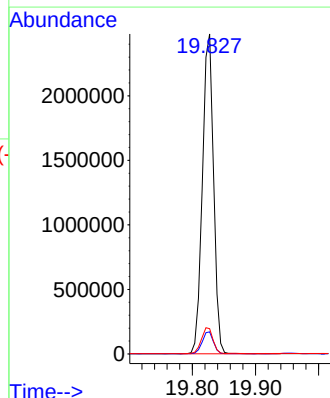
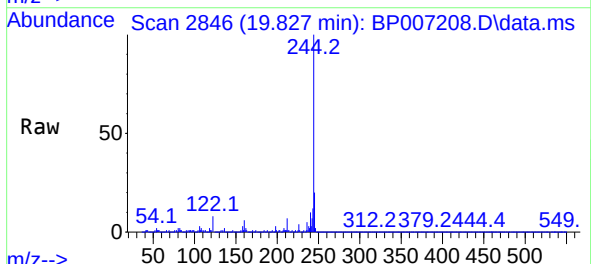
9/28/2021 1:41:25 PM

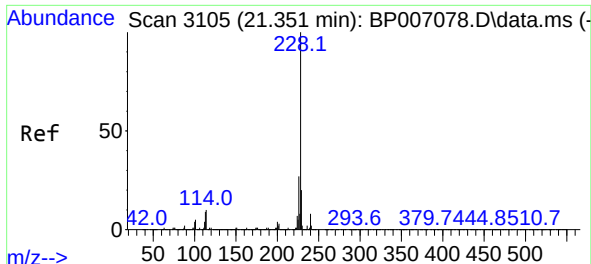
9/28/2021 1:41:25 PM



#79
Terphenyl-d14
Concen: 54.047 ng
RT: 19.827 min Scan# 2846
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:244 Resp: 3034196
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 7.9 7.1 10.7





#81
Benzo(a)anthracene
Concen: 36.602 ng
RT: 21.339 min Scan# 3103
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:228 Resp: 2555900
Ion Ratio Lower Upper
228 100
226 27.8 21.6 32.4
229 21.2 15.8 23.6

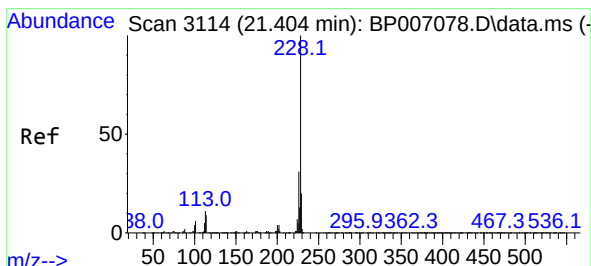
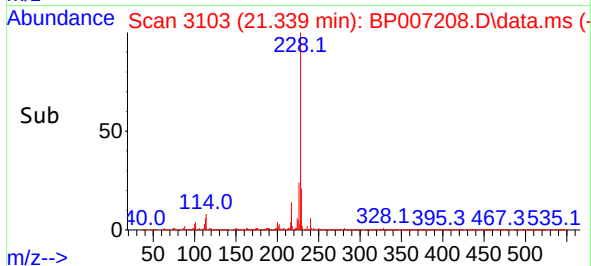
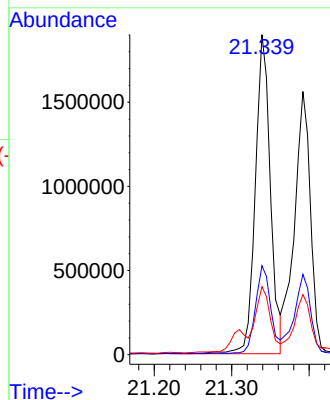
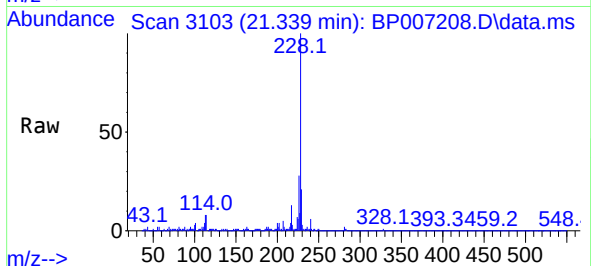
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

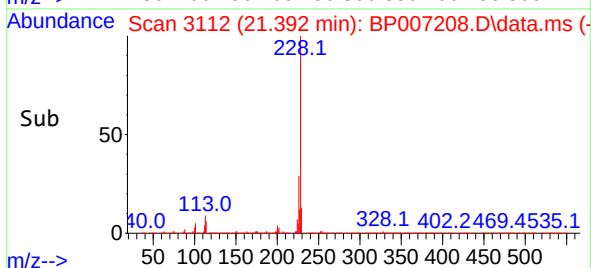
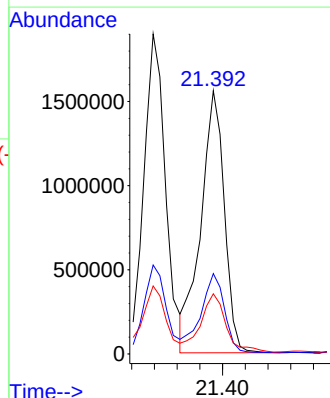
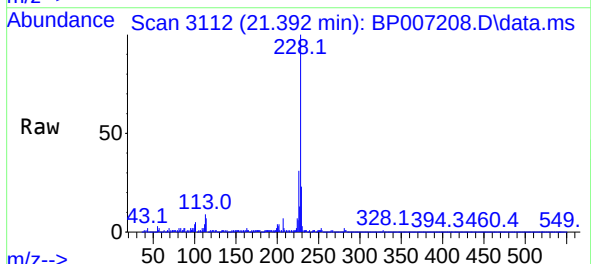
9/28/2021 1:41:25 PM

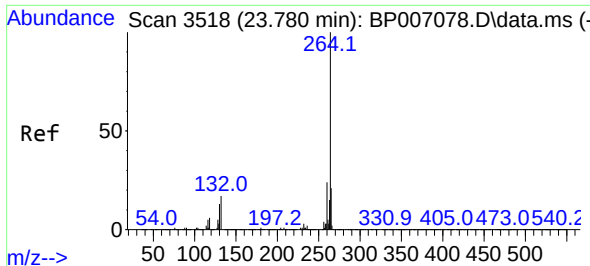
9/28/2021 1:41:25 PM



#83
Chrysene
Concen: 33.612 ng
RT: 21.392 min Scan# 3112
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

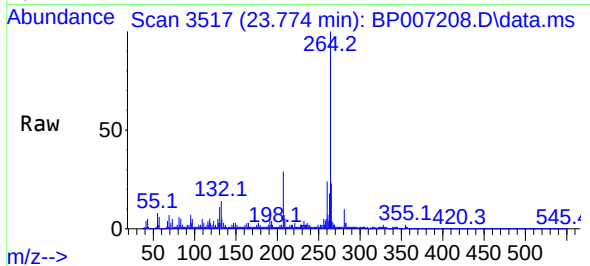
Tgt Ion:228 Resp: 2243228
Ion Ratio Lower Upper
228 100
226 30.5 23.8 35.6
229 22.9 15.4 23.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.774 min Scan# 3517
Delta R.T. 0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Instrument :
BNA_P
ClientSampled :
TP-1-S



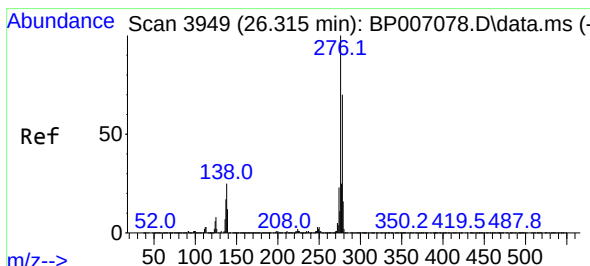
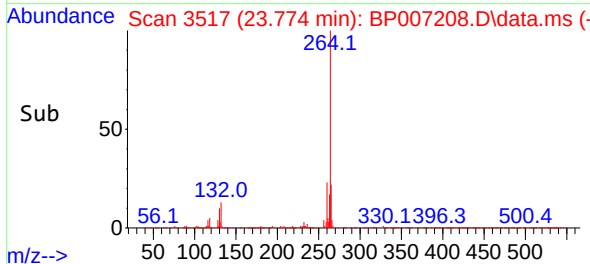
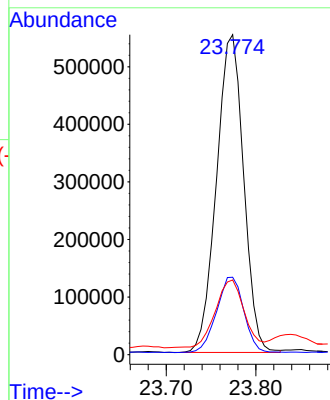
Tgt Ion:264 Resp: 1160261
Ion Ratio Lower Upper
264 100
260 24.2 18.6 28.0
265 23.4 17.6 26.4

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

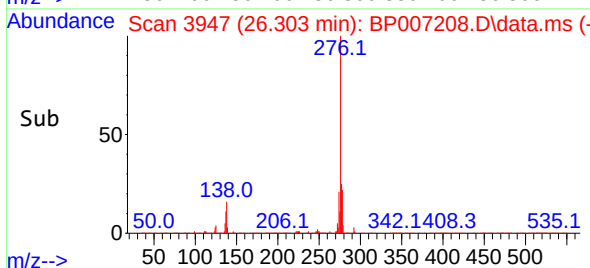
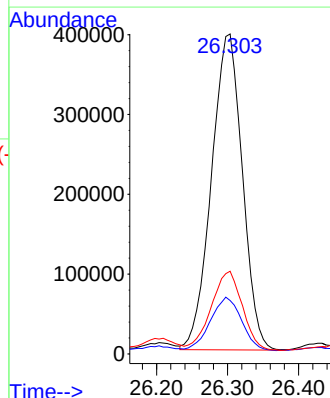
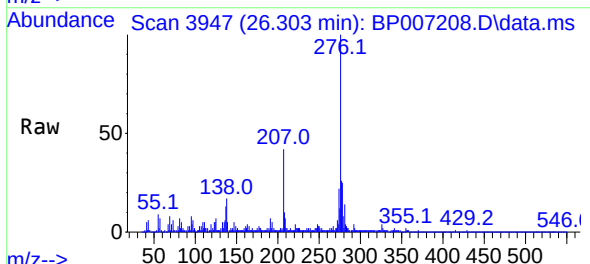
9/28/2021 1:41:25 PM

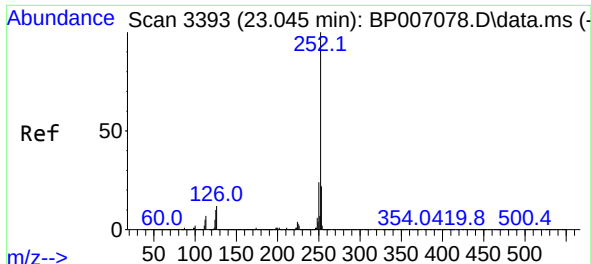
9/28/2021 1:41:25 PM



#87
Indeno(1,2,3-cd)pyrene
Concen: 14.354 ng
RT: 26.303 min Scan# 3947
Delta R.T. -0.000 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:276 Resp: 1196911
Ion Ratio Lower Upper
276 100
138 17.1 15.3 22.9
277 25.3 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 39.865 ng
RT: 23.039 min Scan# 3392
Delta R.T. 0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:252 Resp: 2764231
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 9.2 6.2 9.4

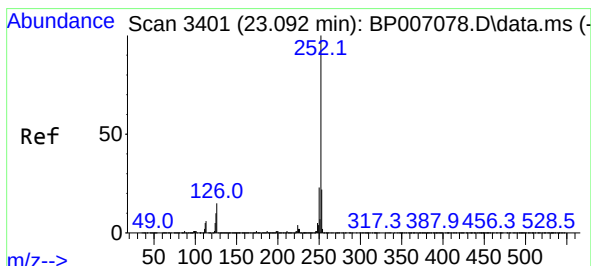
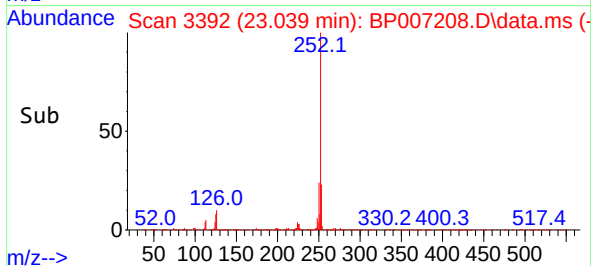
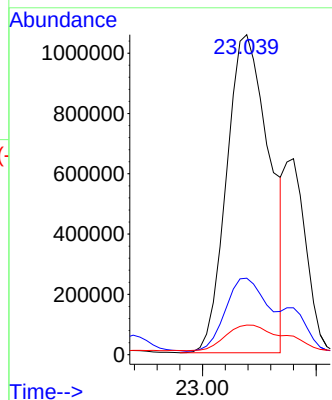
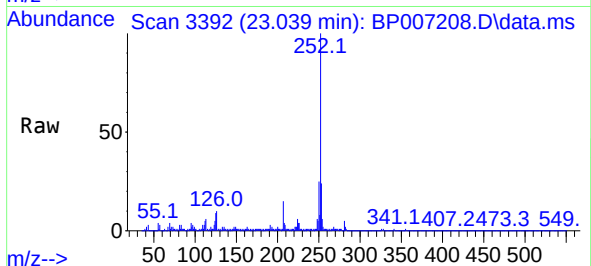
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

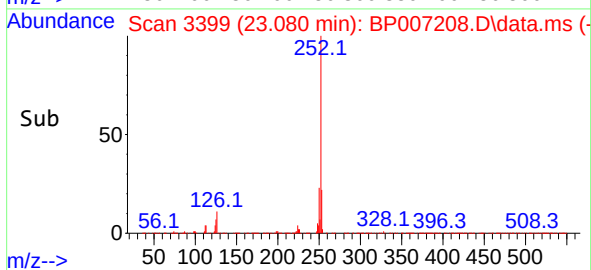
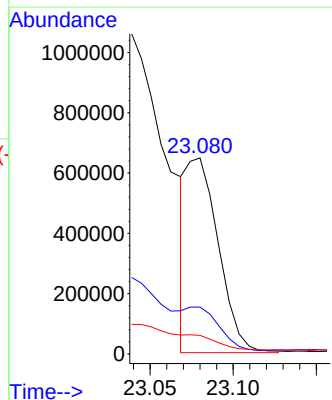
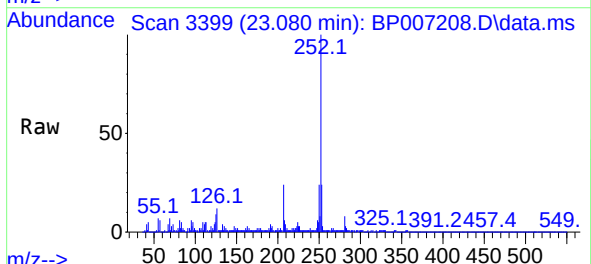
9/28/2021 1:41:25 PM

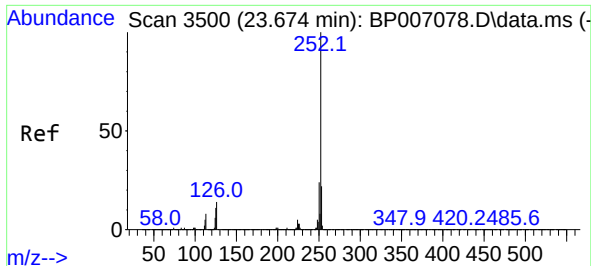
9/28/2021 1:41:25 PM



#89
Benzo(k)fluoranthene
Concen: 12.135 ng m
RT: 23.080 min Scan# 3399
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion:252 Resp: 851943
Ion Ratio Lower Upper
252 100
253 23.9 17.6 26.4
125 9.5 6.0 9.0#





#90
Benzo(a)pyrene
Concen: 32.568 ng
RT: 23.662 min Scan# 3498
Delta R.T. -0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 252 Resp: 1918585
Ion Ratio Lower Upper
252 100
253 24.0 17.9 26.9
125 9.7 6.5 9.7

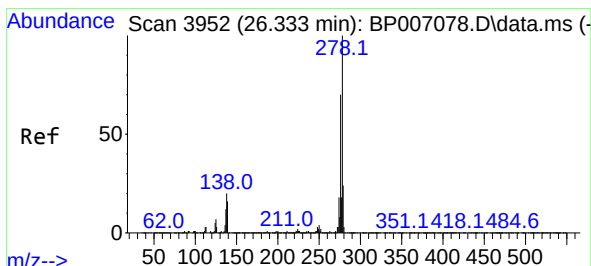
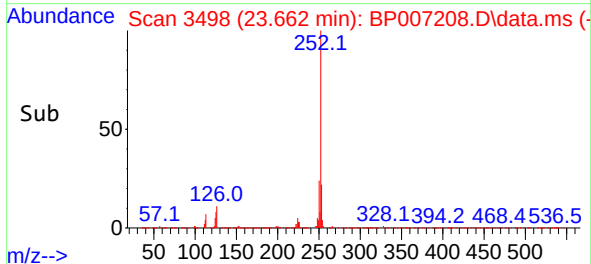
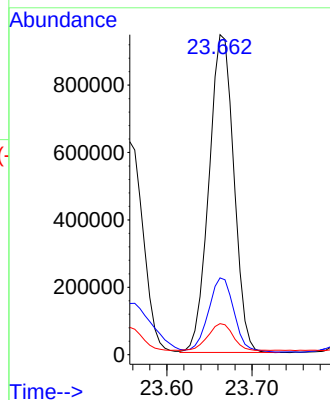
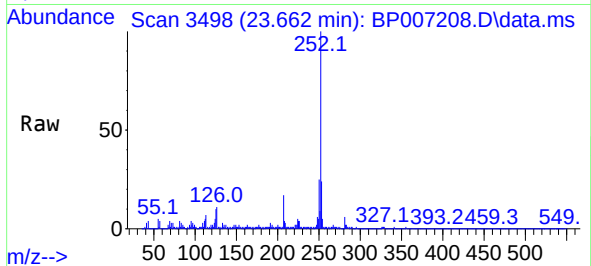
Instrument :
BNA_P
ClientSampled :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

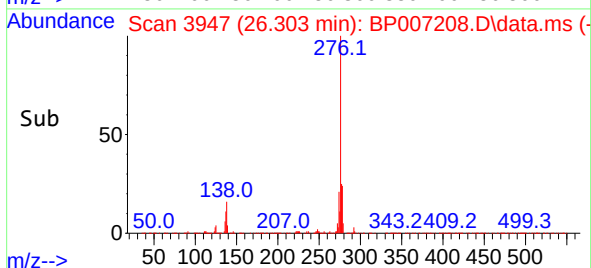
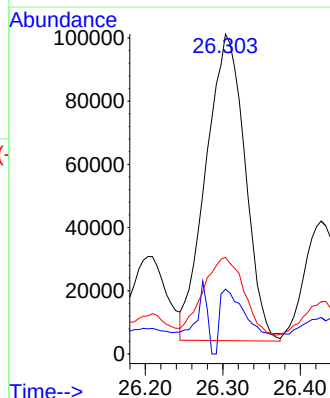
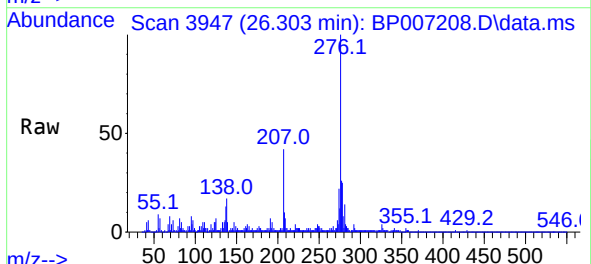
9/28/2021 1:41:25 PM

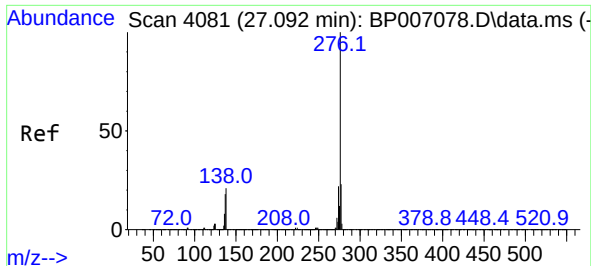
9/28/2021 1:41:25 PM



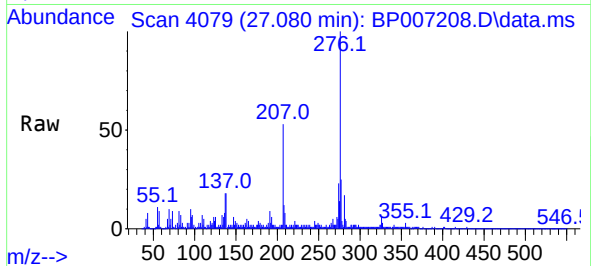
#91
Dibenzo(a,h)anthracene
Concen: 4.856 ng
RT: 26.303 min Scan# 3947
Delta R.T. -0.012 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41

Tgt Ion: 278 Resp: 339292
Ion Ratio Lower Upper
278 100
139 20.2 9.3 13.9#
279 30.2 18.8 28.2#



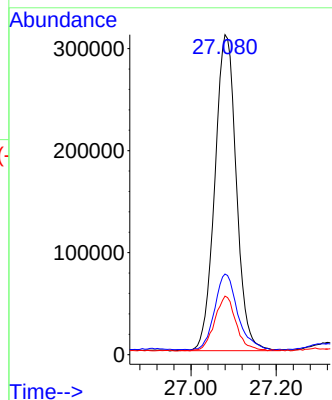
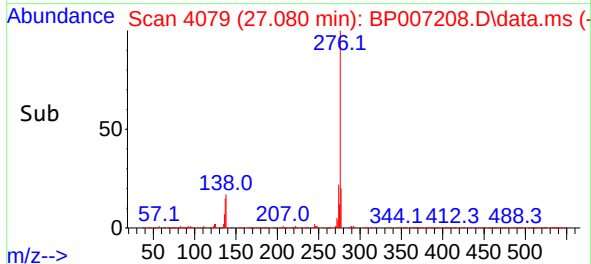


#92
Benzo(g,h,i)perylene
Concen: 15.895 ng
RT: 27.080 min Scan# 4079
Delta R.T. 0.006 min
Lab File: BP007208.D
Acq: 27 Sep 2021 16:41



Tgt Ion: 276 Resp: 1083871

Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.9	28.3
138	18.3	12.6	18.8



Instrument :
BNA_P
ClientSampleId :
TP-1-S

Manual Integrations
APPROVED

mohammad
9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM

9/28/2021 1:41:25 PM