

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051721\
 Data File : BF123964.D
 Acq On : 17 May 2021 15:35
 Operator : JU/CG
 Sample : M2383-01DL 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KSB-01(6-8)DL

Manual Integrations
 APPROVED

mohammad
 5/19/2021 11:37:02 AM

Quant Time: May 17 16:02:04 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 14 19:05:57 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	39978	20.00	ng	0.00
21) Naphthalene-d8	8.186	136	156149	20.00	ng	0.00
39) Acenaphthene-d10	9.939	164	87074	20.00	ng	0.00
64) Phenanthrene-d10	11.427	188	165749	20.00	ng	0.00
76) Chrysene-d12	14.068	240	131565	20.00	ng	0.00
86) Perylene-d12	15.562	264	126081	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	11349	3.99	ng	0.00
7) Phenol-d6	6.510	99	15339	4.15	ng	-0.01
23) Nitrobenzene-d5	7.457	82	10341	2.85	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	3770	3.60	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	19486	2.75	ng	0.00
79) Terphenyl-d14	13.010	244	24253	2.79	ng	0.00
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.998	142	34583	5.92	ng	97
46) 1,1'-Biphenyl	9.363	154	21038	2.74	ng	98
49) Acenaphthylene	9.804	152	67545	7.50	ng	95
52) Acenaphthene	9.974	154	43989	7.14	ng	96
55) Dibenzofuran	10.145	168	86162	9.74	ng	96
58) Fluorene	10.486	166	96429	14.46	ng	90
71) Phenanthrene	11.457	178	538129	51.23	ng	99
72) Anthracene	11.504	178	122173	11.48	ng	97
73) Carbazole	11.651	167	22833	2.45	ng	99
75) Fluoranthene	12.645	202	354964	32.63	ng	99
78) Pyrene	12.874	202	277589	23.77	ng	98
81) Benzo(a)anthracene	14.062	228	123360m	12.96	ng	
83) Chrysene	14.098	228	94149	10.29	ng	98
87) Indeno(1,2,3-cd)pyrene	17.056	276	42286	4.34	ng	95
88) Benzo(b)fluoranthene	15.121	252	99671m	10.22	ng	
89) Benzo(k)fluoranthene	15.151	252	37780m	4.25	ng	
90) Benzo(a)pyrene	15.498	252	85596	10.15	ng	98
92) Benzo(g,h,i)perylene	17.509	276	38355	4.66	ng	# 92

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

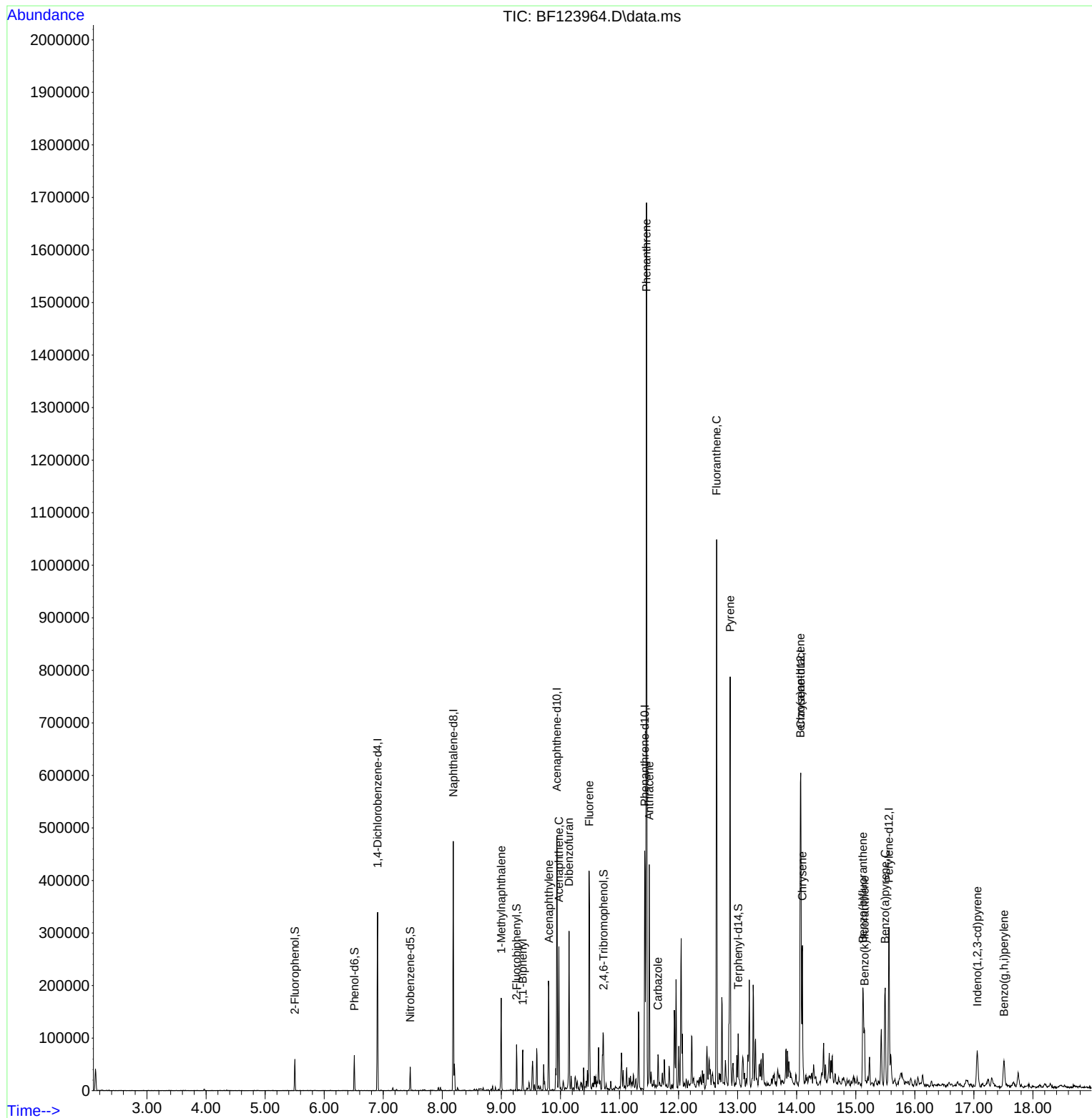
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051721\
Data File : BF123964.D
Acq On : 17 May 2021 15:35
Operator : JU/CG
Sample : M2383-01DL 20X
Misc :
ALS Vial : 10 Sample Multiplier: 1

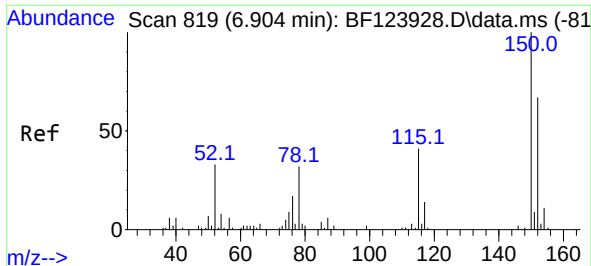
Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

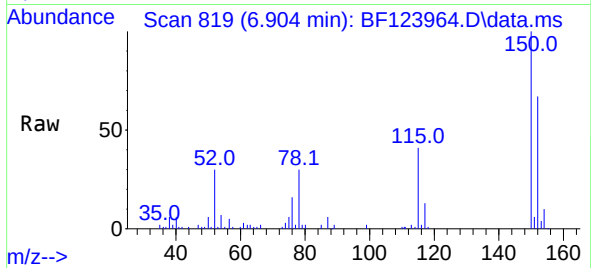
mohammad
5/19/2021 11:37:02 AM

Quant Time: May 17 16:02:04 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 14 19:05:57 2021
Response via : Initial Calibration

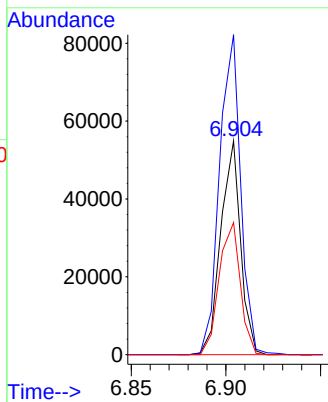
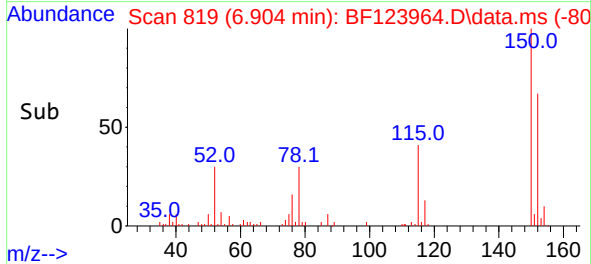




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.904 min Scan# 819
Delta R.T. 0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



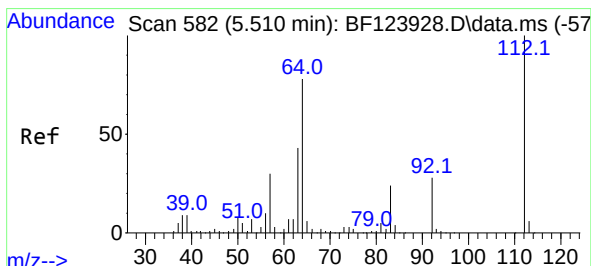
Tgt Ion:152 Resp: 39978
Ion Ratio Lower Upper
152 100
150 149.7 127.0 190.6
115 61.8 54.3 81.5



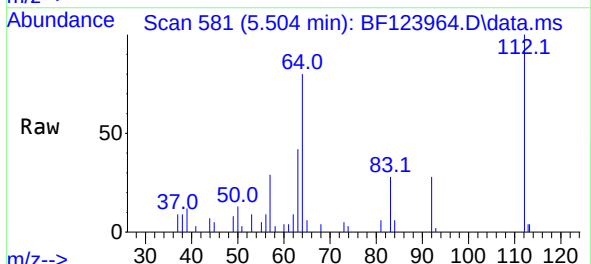
Instrument :
BNA_F
ClientSampled :
KSB-01(6-8)DL

Manual Integrations
APPROVED

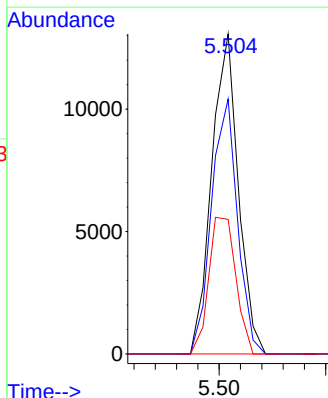
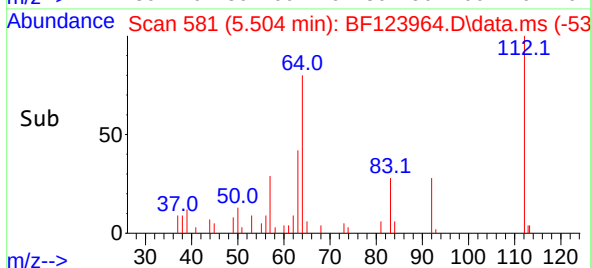
mohammad
5/19/2021 11:37:02 AM

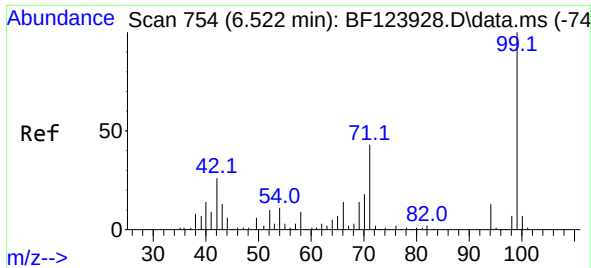


#5
2-Fluorophenol
Concen: 3.99 ng
RT: 5.504 min Scan# 581
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



Tgt Ion:112 Resp: 11349
Ion Ratio Lower Upper
112 100
64 79.7 61.4 92.0
63 42.0 33.0 49.4





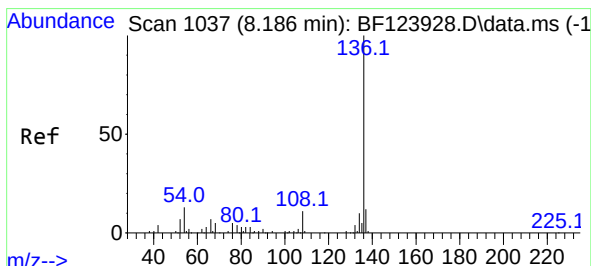
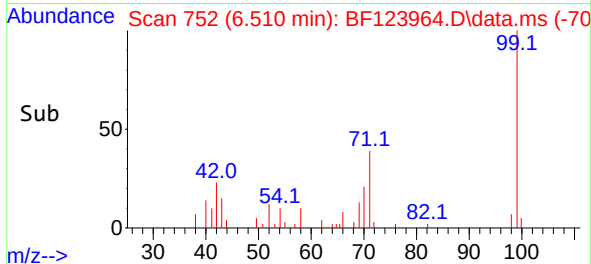
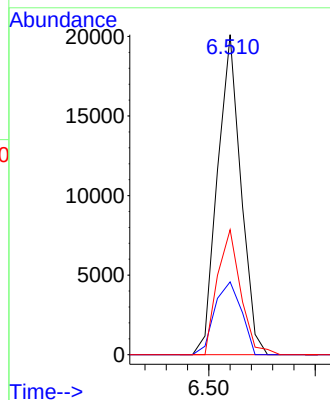
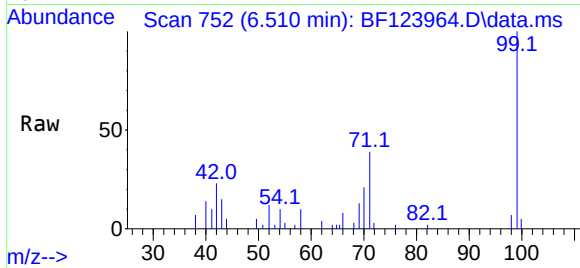
#7
Phenol-d6
Concen: 4.15 ng
RT: 6.510 min Scan# 752
Delta R.T. -0.012 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	99	Resp:	15339
Ion	Ratio	Lower	Upper
99	100		
42	22.8	19.8	29.8
71	39.1	31.1	46.7

Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

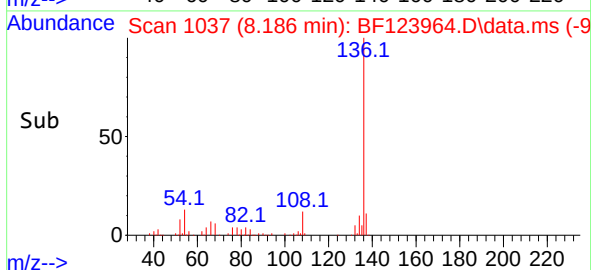
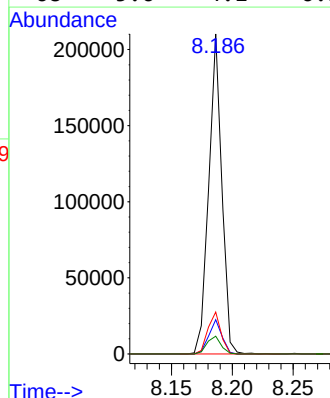
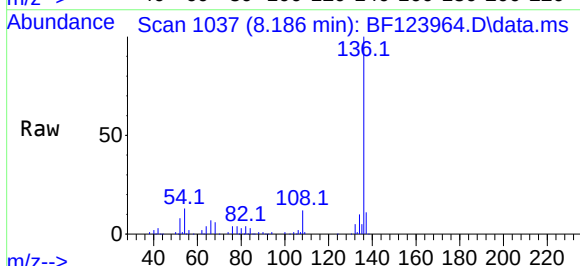
Manual Integrations
APPROVED

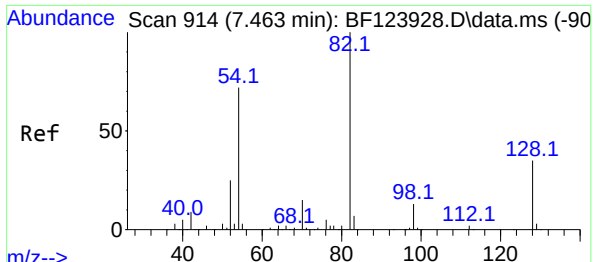
mohammad
5/19/2021 11:37:02 AM



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.186 min Scan# 1037
Delta R.T. 0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	136	Resp:	156149
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.7	13.1
54	13.1	9.8	14.6
68	5.6	4.1	6.1





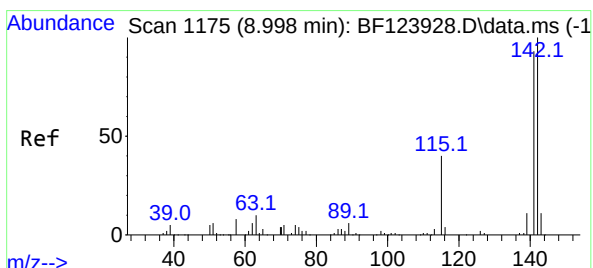
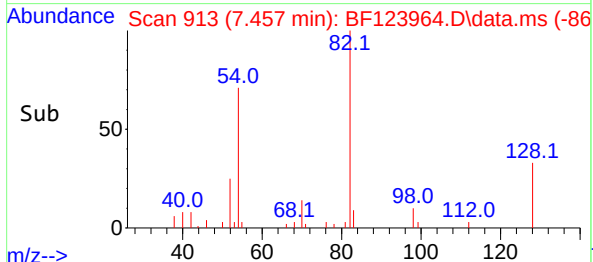
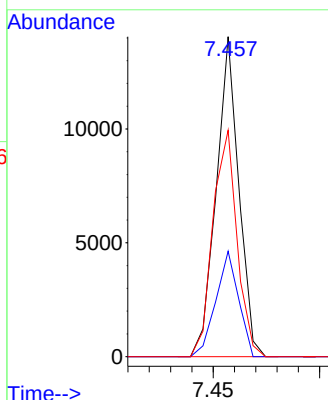
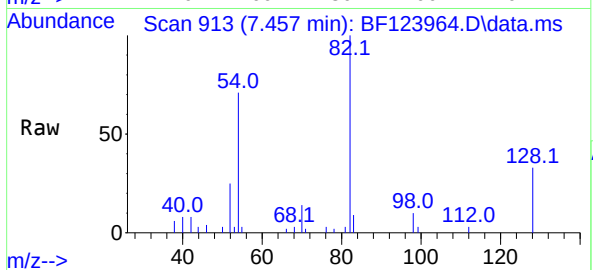
#23
Nitrobenzene-d5
Concen: 2.85 ng
RT: 7.457 min Scan# 913
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	82	Resp:	10341
Ion	Ratio	Lower	Upper
82	100		
128	32.9	29.4	44.2
54	70.7	54.1	81.1

Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

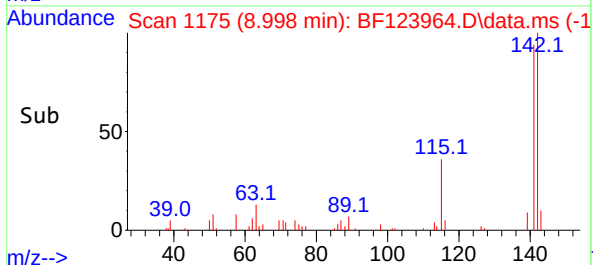
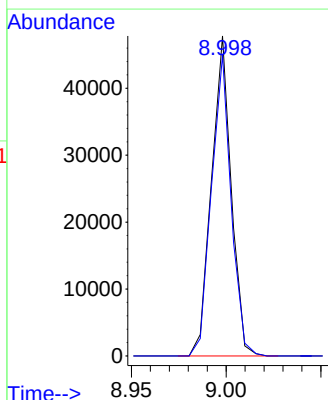
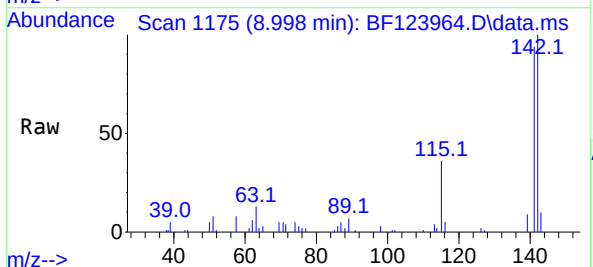
Manual Integrations
APPROVED

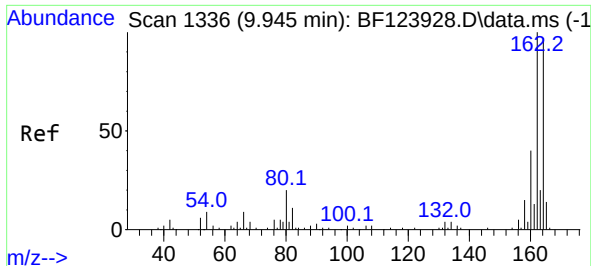
mohammad
5/19/2021 11:37:02 AM



#38
1-Methylnaphthalene
Concen: 5.92 ng
RT: 8.998 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	142	Resp:	34583
Ion	Ratio	Lower	Upper
142	100		
141	94.1	72.8	109.2





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.939 min Scan# 1335

Delta R.T. -0.006 min

Lab File: BF123964.D

Acq: 17 May 2021 15:35

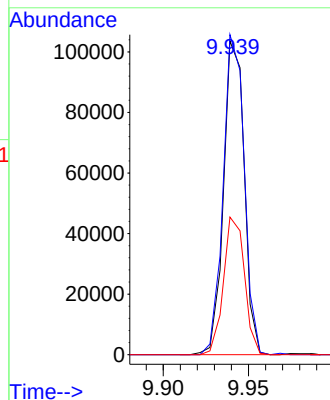
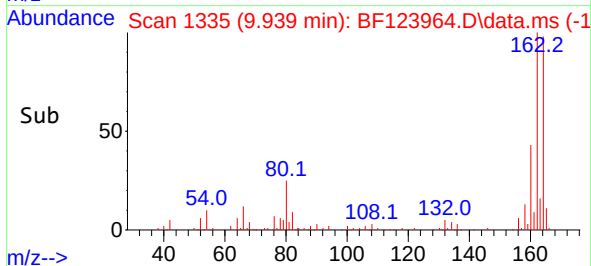
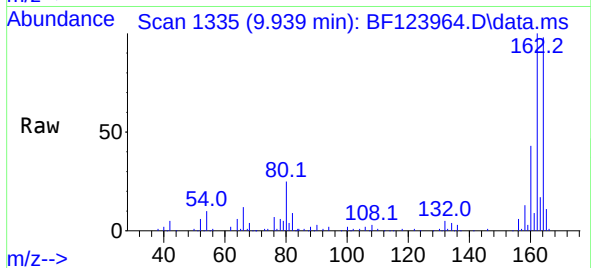
Tgt Ion:164 Resp: 87074

Ion Ratio Lower Upper

164 100

162 102.0 80.7 121.1

160 43.9 37.3 55.9



Instrument :

BNA_F

ClientSampleId :

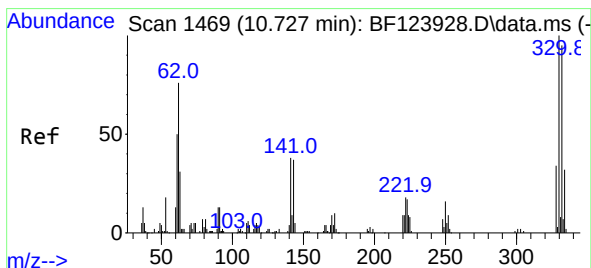
KSB-01(6-8)DL

Manual Integrations

APPROVED

mohammad

5/19/2021 11:37:02 AM



#42

2,4,6-Tribromophenol

Concen: 3.60 ng

RT: 10.727 min Scan# 1469

Delta R.T. -0.000 min

Lab File: BF123964.D

Acq: 17 May 2021 15:35

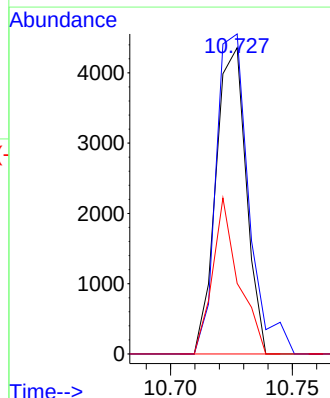
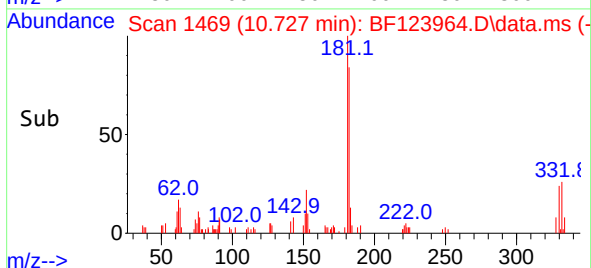
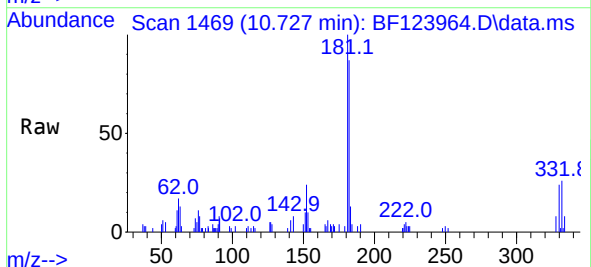
Tgt Ion:330 Resp: 3770

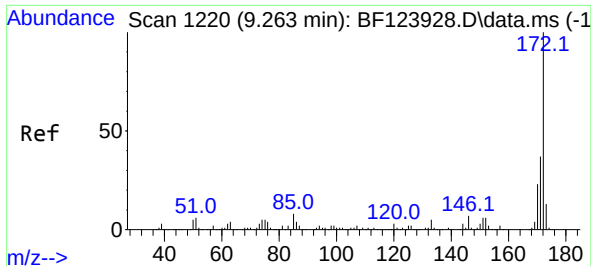
Ion Ratio Lower Upper

330 100

332 113.1 77.1 115.7

141 43.5 27.9 41.9#





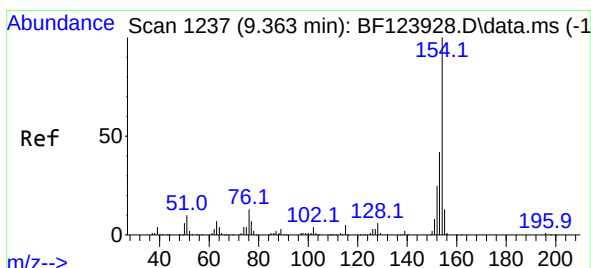
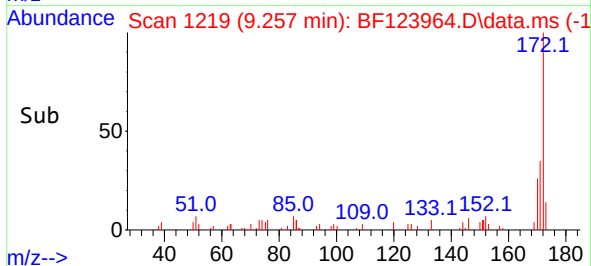
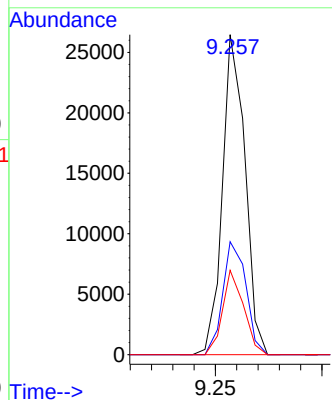
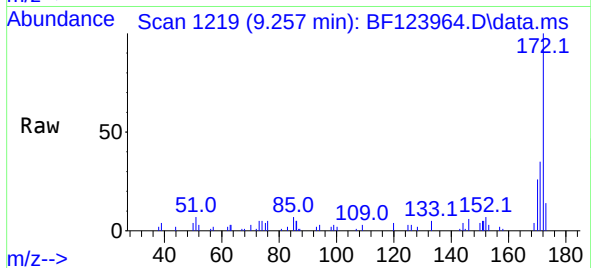
#45
2-Fluorobiphenyl
Concen: 2.75 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	172	Resp:	19486
Ion Ratio	Lower	Upper	
172	100		
171	35.3	28.1	42.1
170	26.4	19.2	28.8

Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

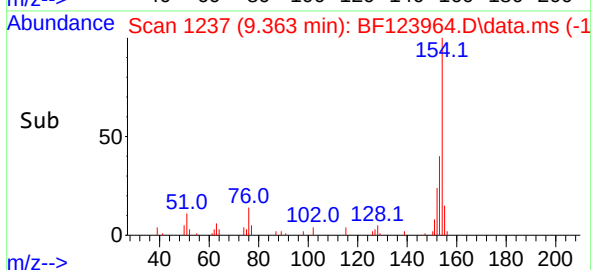
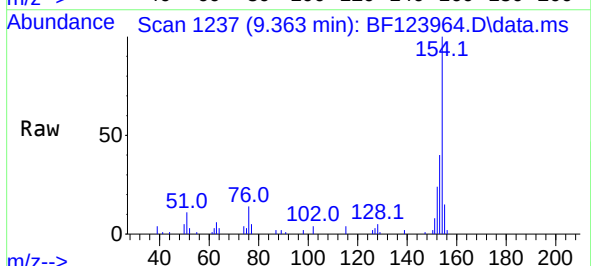
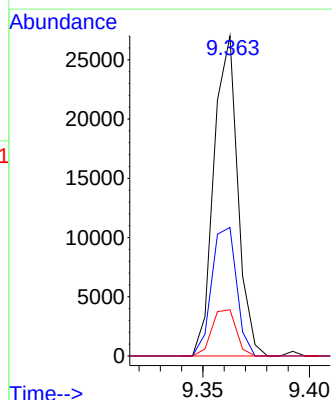
Manual Integrations
APPROVED

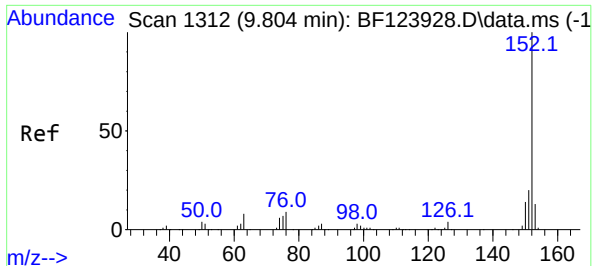
mohammad
5/19/2021 11:37:02 AM



#46
1,1'-Biphenyl
Concen: 2.74 ng
RT: 9.363 min Scan# 1237
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	154	Resp:	21038
Ion Ratio	Lower	Upper	
154	100		
153	40.2	20.7	60.7
76	14.5	0.0	31.7





#49

Acenaphthylene

Concen: 7.50 ng

RT: 9.804 min Scan# 1312

Delta R.T. -0.000 min

Lab File: BF123964.D

Acq: 17 May 2021 15:35

Tgt Ion:	152	Resp:	67545
Ion Ratio	Lower	Upper	
152	100		
151	22.2	16.0	24.0
153	15.0	10.4	15.6

Instrument :

BNA_F

ClientSampleId :

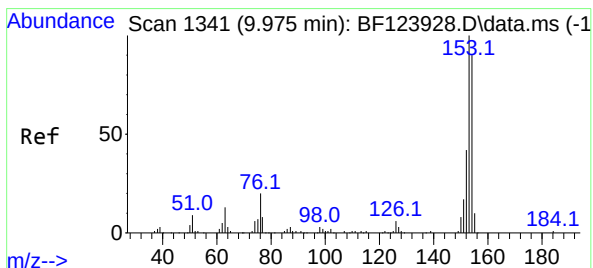
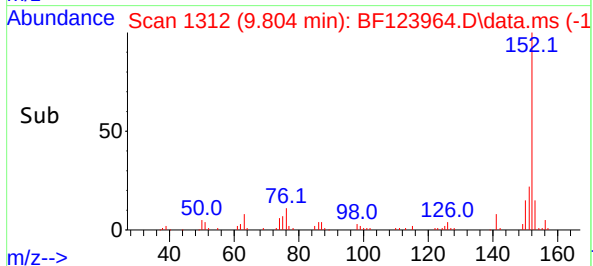
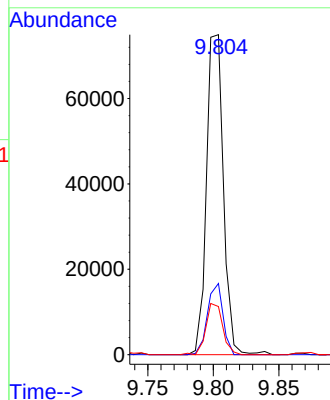
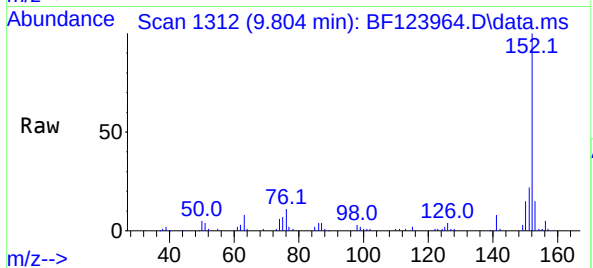
KSB-01(6-8)DL

Manual Integrations

APPROVED

mohammad

5/19/2021 11:37:02 AM



#52

Acenaphthene

Concen: 7.14 ng

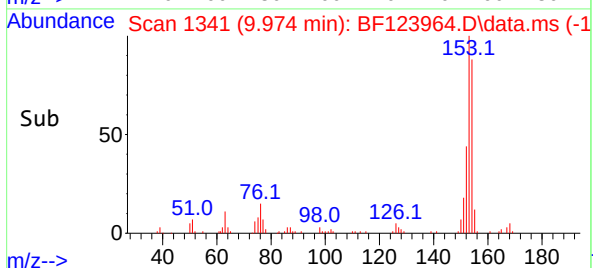
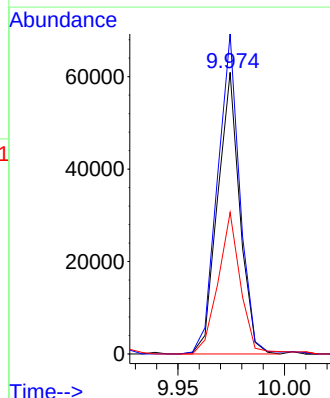
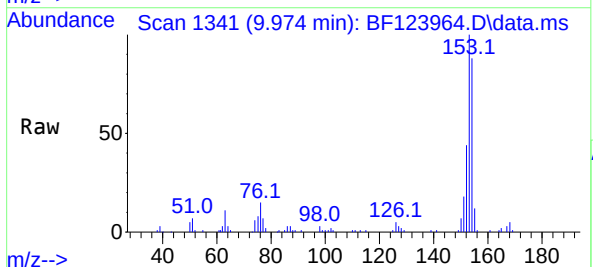
RT: 9.974 min Scan# 1341

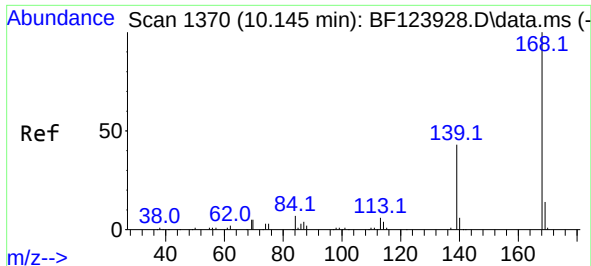
Delta R.T. -0.000 min

Lab File: BF123964.D

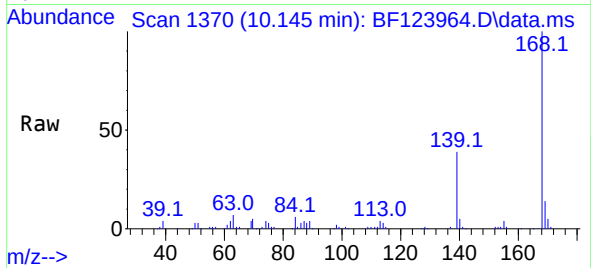
Acq: 17 May 2021 15:35

Tgt Ion:	154	Resp:	43989
Ion Ratio	Lower	Upper	
154	100		
153	113.6	88.1	132.1
152	50.3	43.4	65.0

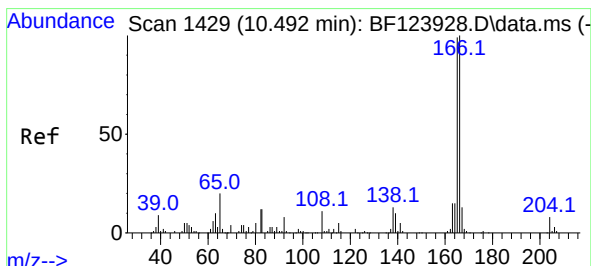
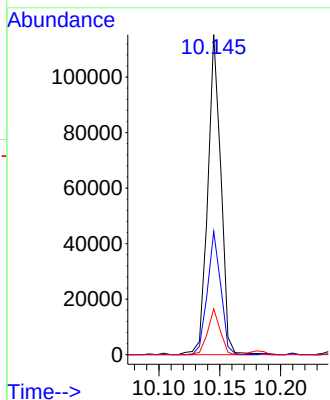
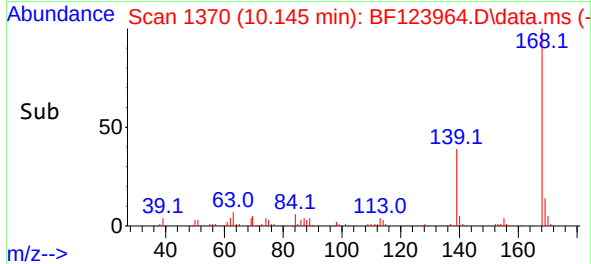




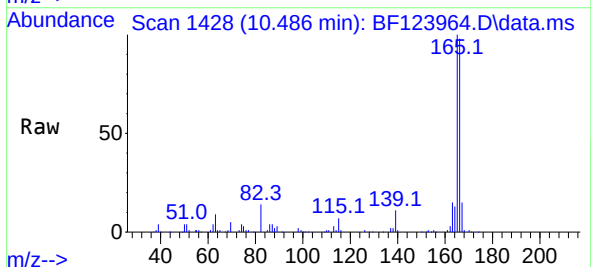
#55
Dibenzenofuran
Concen: 9.74 ng
RT: 10.145 min Scan# 1370
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



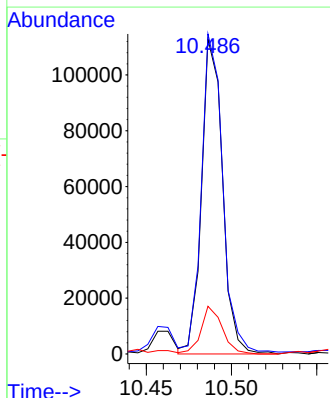
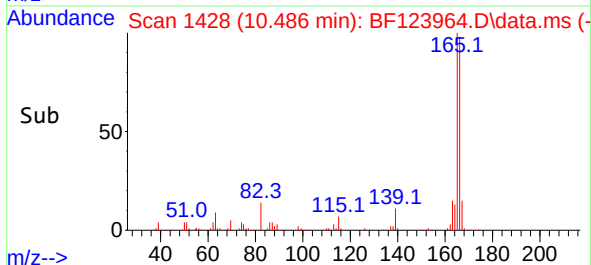
Tgt Ion:168 Resp: 86162
Ion Ratio Lower Upper
168 100
139 38.5 33.2 49.8
169 14.3 10.8 16.2



#58
Fluorene
Concen: 14.46 ng
RT: 10.486 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



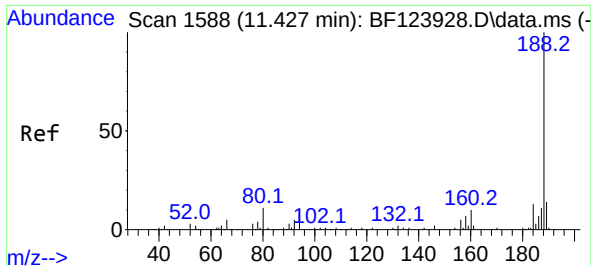
Tgt Ion:166 Resp: 96429
Ion Ratio Lower Upper
166 100
165 101.7 73.5 110.3
167 15.2 10.7 16.1



Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

mohammad
5/19/2021 11:37:02 AM



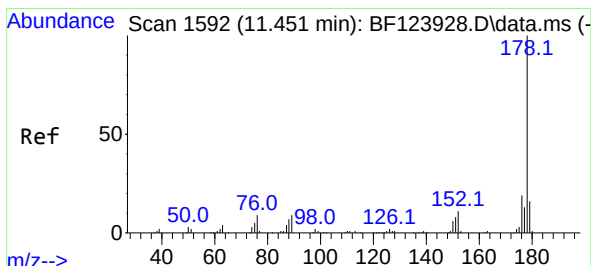
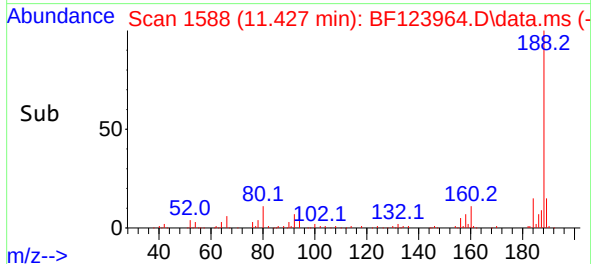
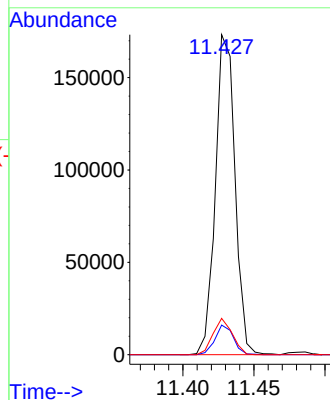
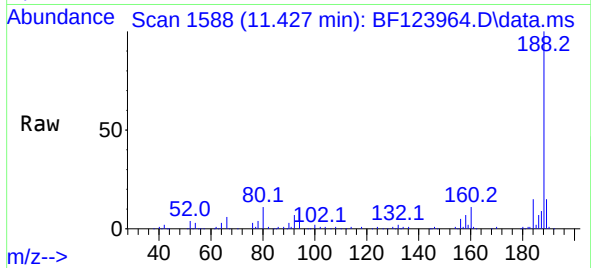
#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.427 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:188 Resp: 165749
Ion Ratio Lower Upper
188 100
94 9.3 6.9 10.3
80 11.4 8.2 12.2

Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

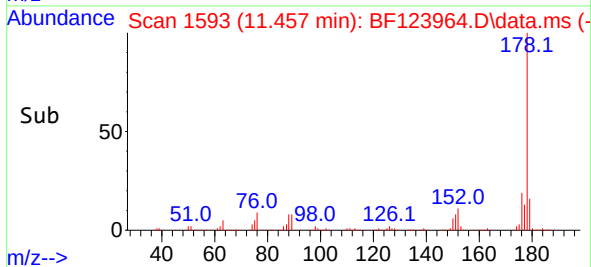
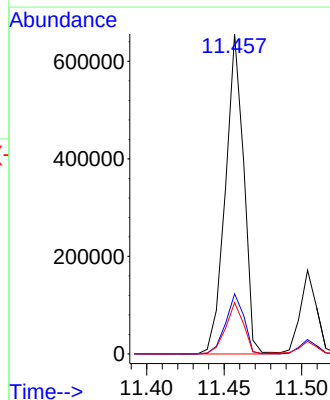
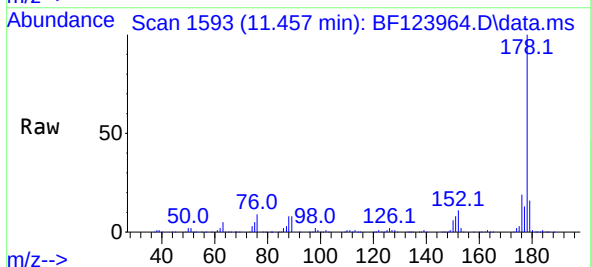
Manual Integrations
APPROVED

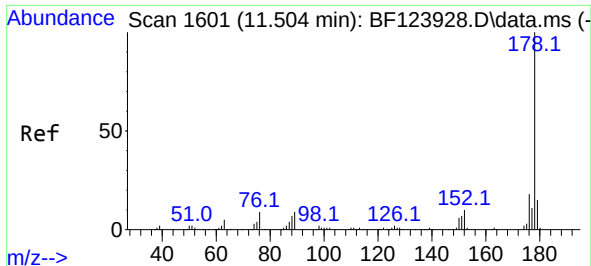
mohammad
5/19/2021 11:37:02 AM



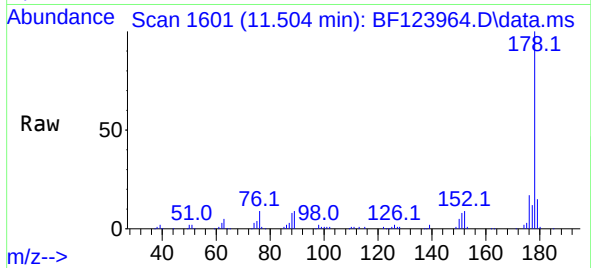
#71
Phenanthrene
Concen: 51.23 ng
RT: 11.457 min Scan# 1593
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:178 Resp: 538129
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 16.0 12.5 18.7

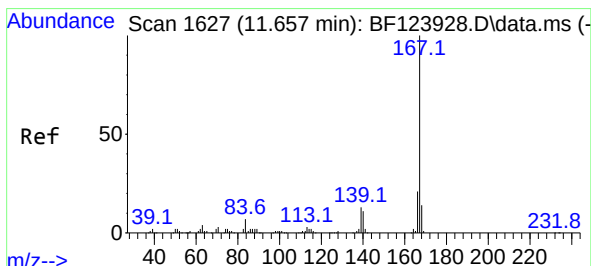
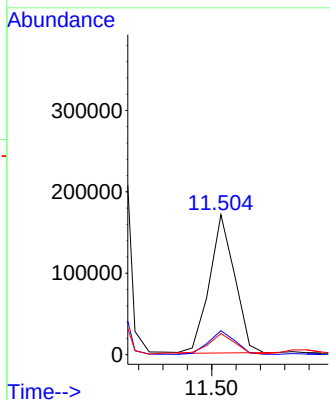
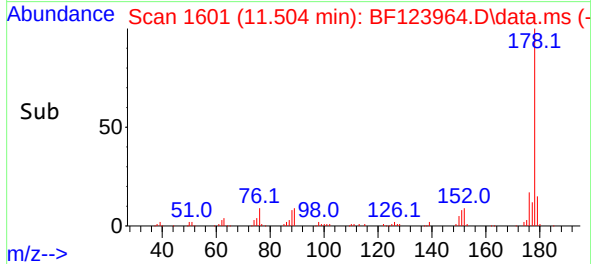




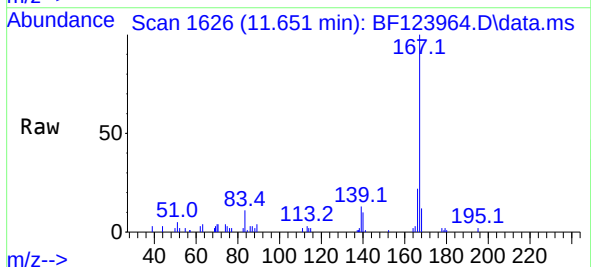
#72
Anthracene
Concen: 11.48 ng
RT: 11.504 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



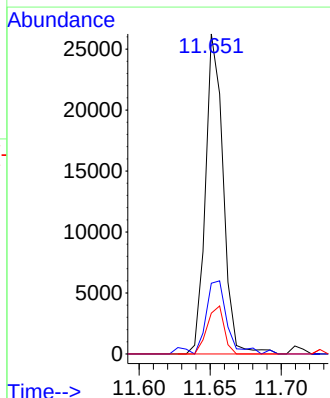
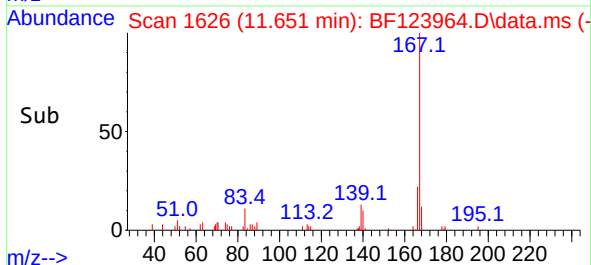
Tgt Ion:178 Resp: 122173
Ion Ratio Lower Upper
178 100
176 17.2 15.4 23.0
179 15.1 12.6 18.8



#73
Carbazole
Concen: 2.45 ng
RT: 11.651 min Scan# 1626
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



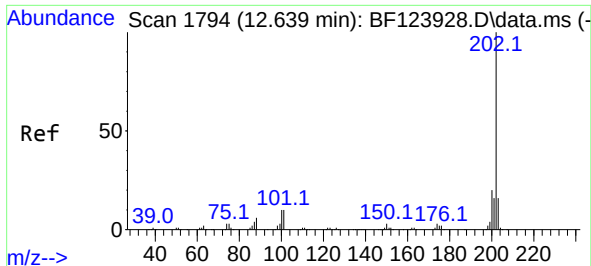
Tgt Ion:167 Resp: 22833
Ion Ratio Lower Upper
167 100
166 22.1 17.0 25.6
139 12.8 10.4 15.6



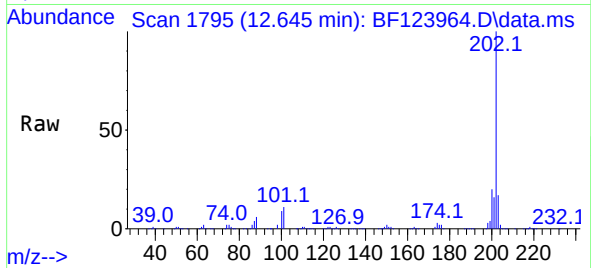
Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

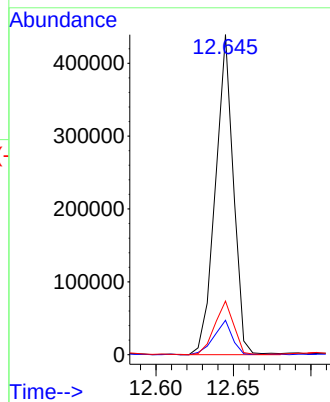
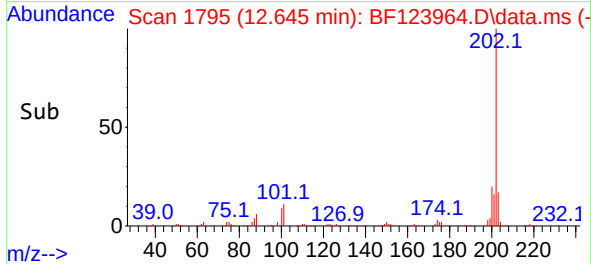
mohammad
5/19/2021 11:37:02 AM



#75
Fluoranthene
Concen: 32.63 ng
RT: 12.645 min Scan# 1795
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



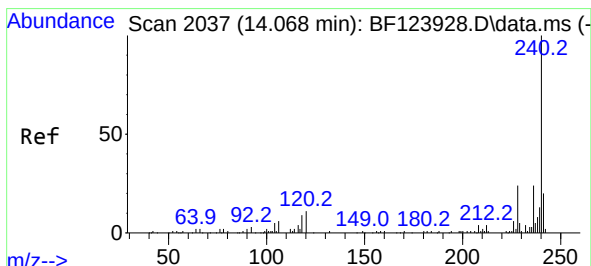
Tgt Ion:202 Resp: 354964
Ion Ratio Lower Upper
202 100
101 10.8 0.0 30.9
203 16.7 0.0 37.5



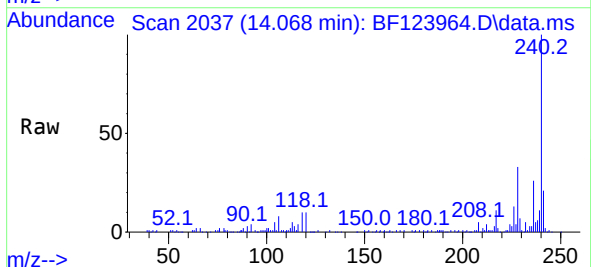
Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

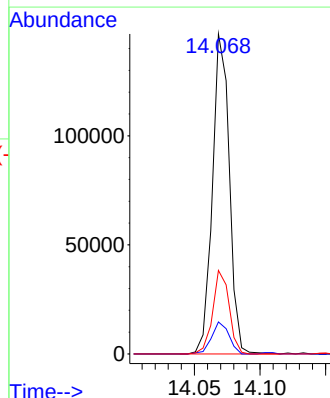
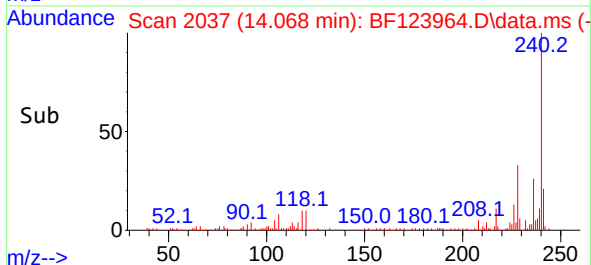
mohammad
5/19/2021 11:37:02 AM

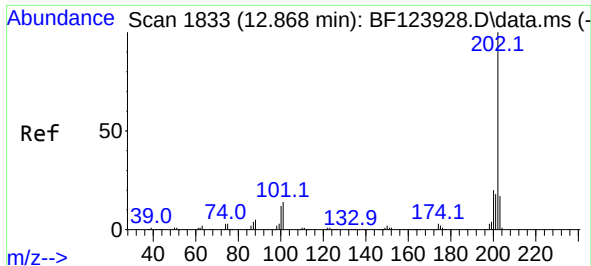


#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.068 min Scan# 2037
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

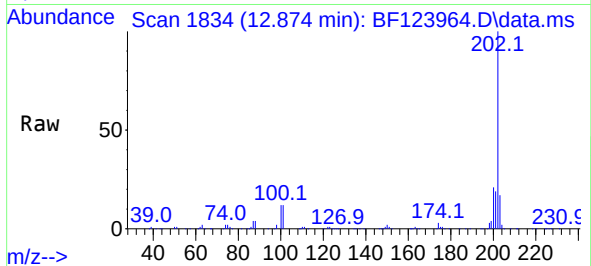


Tgt Ion:240 Resp: 131565
Ion Ratio Lower Upper
240 100
120 10.0 7.2 10.8
236 26.1 19.0 28.4

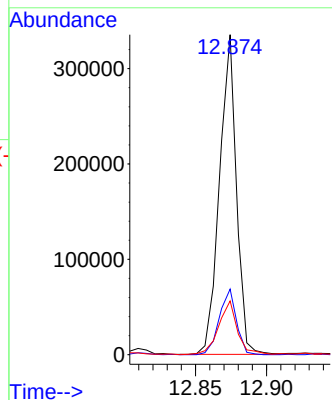
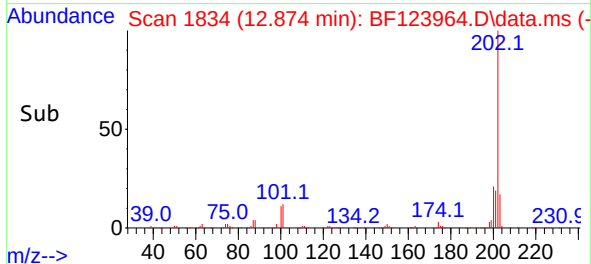




#78
Pyrene
Concen: 23.77 ng
RT: 12.874 min Scan# 1834
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



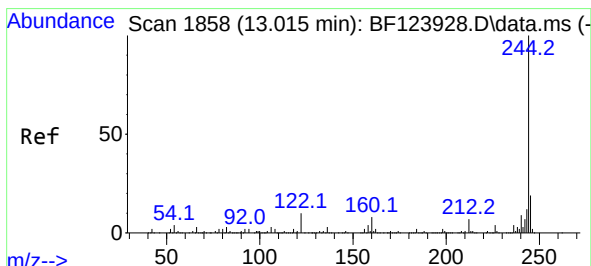
Tgt Ion:202 Resp: 277589
Ion Ratio Lower Upper
202 100
200 20.5 16.1 24.1
203 16.8 14.8 22.2



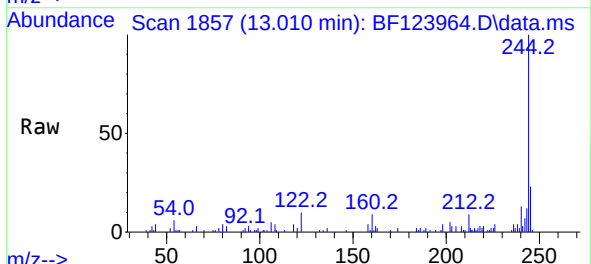
Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

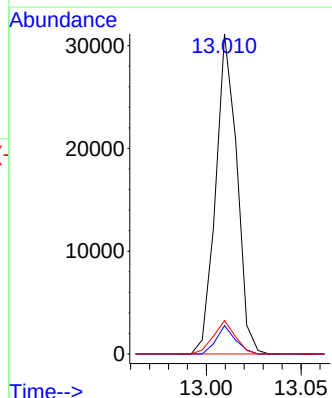
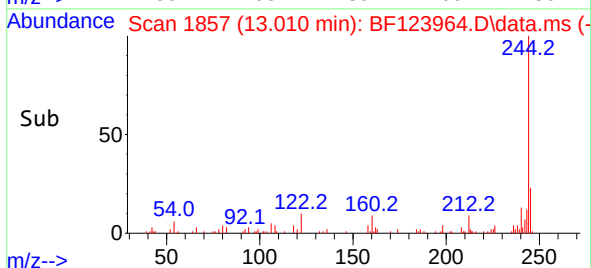
mohammad
5/19/2021 11:37:02 AM

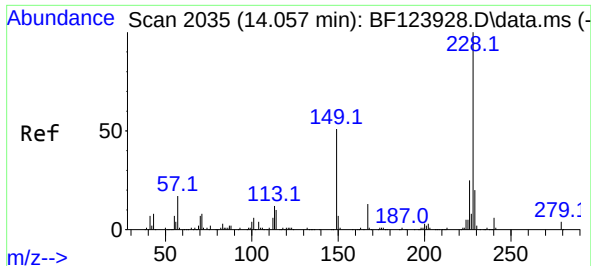


#79
Terphenyl-d14
Concen: 2.79 ng
RT: 13.010 min Scan# 1857
Delta R.T. -0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

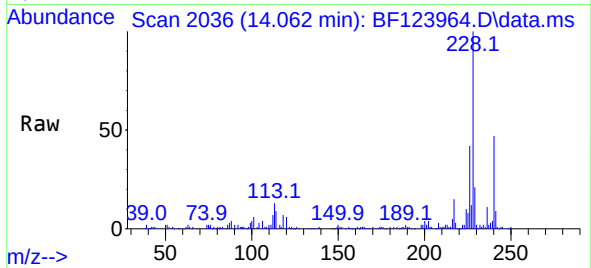


Tgt Ion:244 Resp: 24253
Ion Ratio Lower Upper
244 100
212 8.8 5.7 8.5#
122 10.5 9.7 14.5

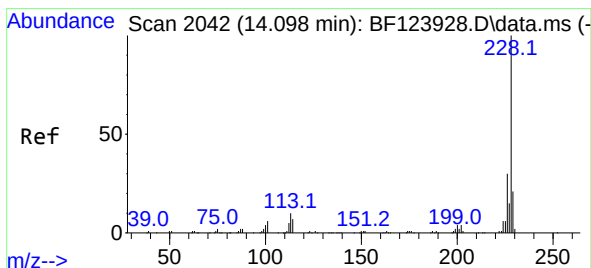
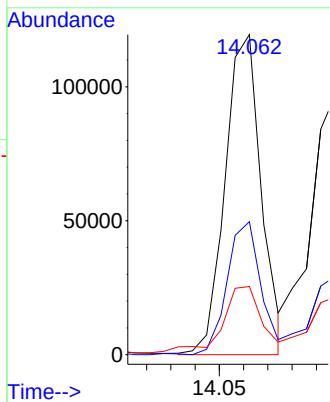
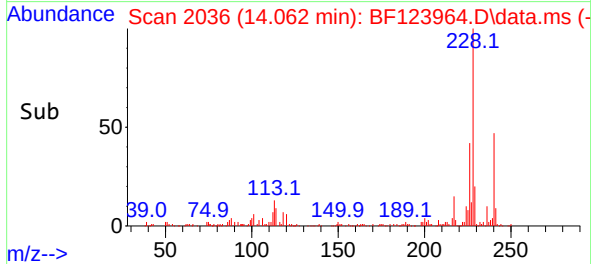




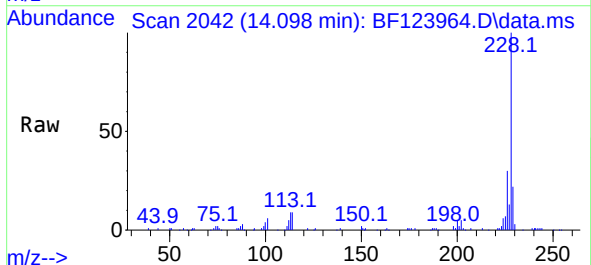
#81
Benzo(a)anthracene
Concen: 12.96 ng m
RT: 14.062 min Scan# 2036
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



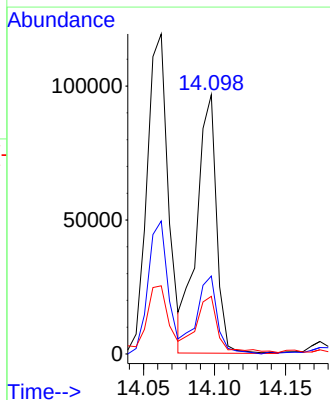
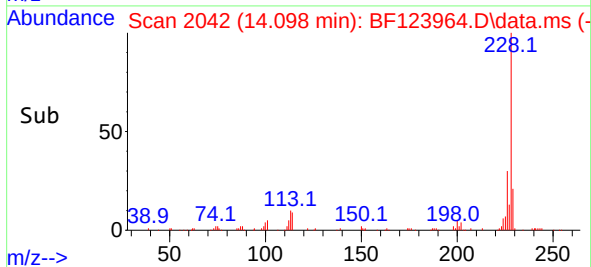
Tgt Ion:228 Resp: 123360
Ion Ratio Lower Upper
228 100
226 41.6 22.4 33.6#
229 21.3 16.0 24.0



#83
Chrysene
Concen: 10.29 ng
RT: 14.098 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



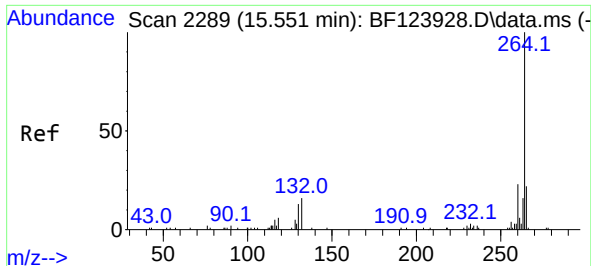
Tgt Ion:228 Resp: 94149
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 22.2 16.2 24.2



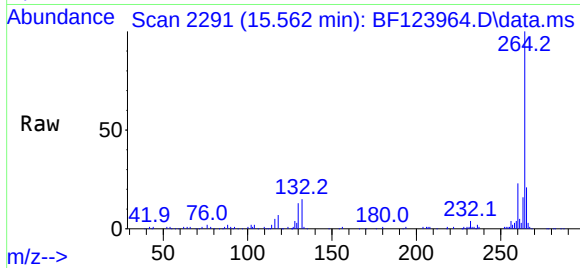
Instrument :
BNA_F
ClientSampled :
KSB-01(6-8)DL

Manual Integrations
APPROVED

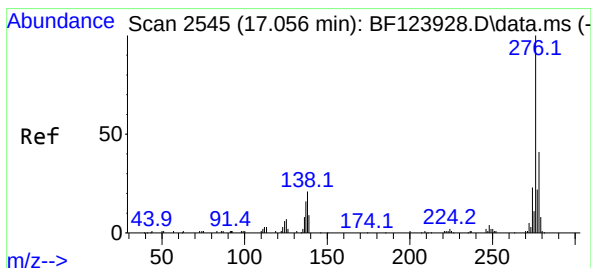
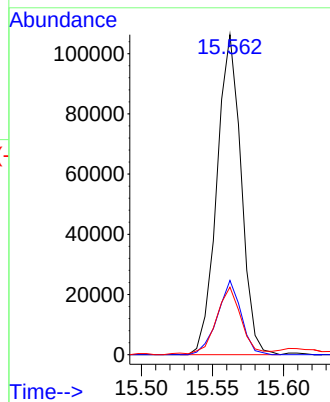
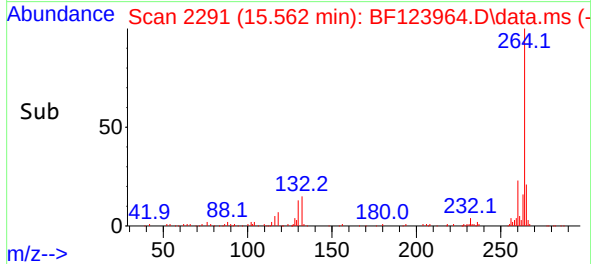
mohammad
5/19/2021 11:37:02 AM



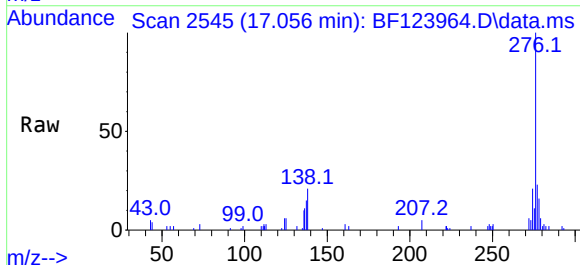
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.562 min Scan# 2291
Delta R.T. 0.012 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



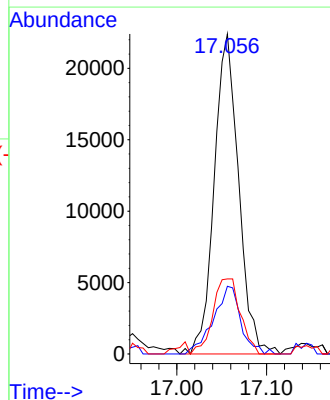
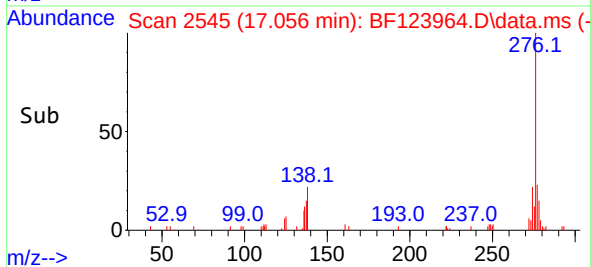
Tgt Ion:264 Resp: 126081
Ion Ratio Lower Upper
264 100
260 23.2 18.7 28.1
265 21.1 17.8 26.8



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.34 ng
RT: 17.056 min Scan# 2545
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35



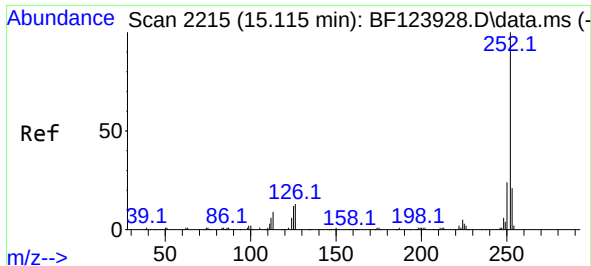
Tgt Ion:276 Resp: 42286
Ion Ratio Lower Upper
276 100
138 23.8 16.2 24.2
277 26.5 20.1 30.1



Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

mohammad
5/19/2021 11:37:02 AM



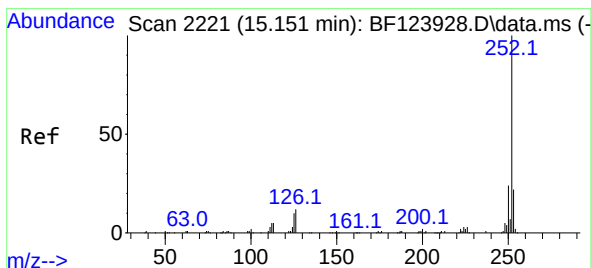
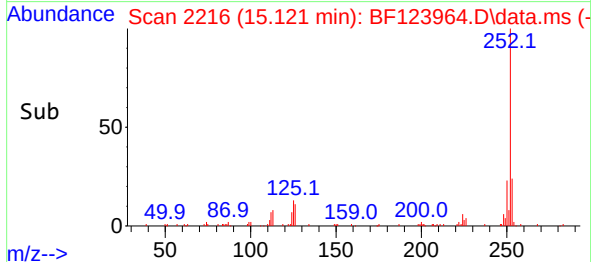
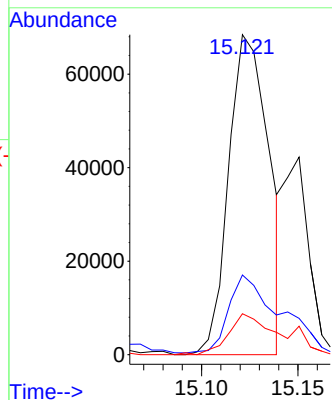
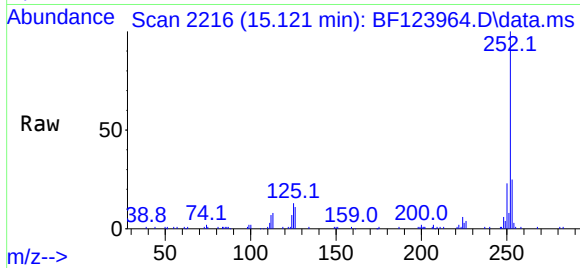
#88
Benzo(b)fluoranthene
Concen: 10.22 ng m
RT: 15.121 min Scan# 2216
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:252 Resp: 99671
Ion Ratio Lower Upper
252 100
253 24.9 18.1 27.1
125 12.8 6.2 9.4#

Instrument :
BNA_F
ClientSampled :
KSB-01(6-8)DL

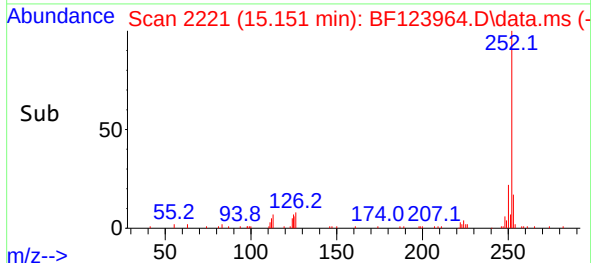
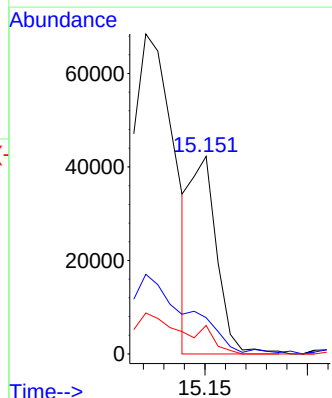
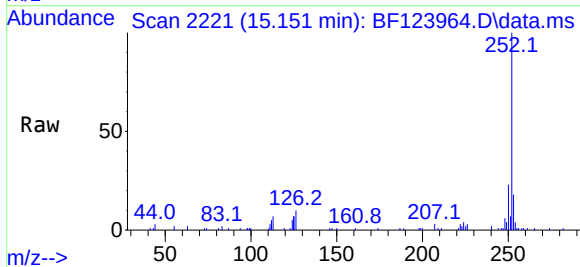
Manual Integrations
APPROVED

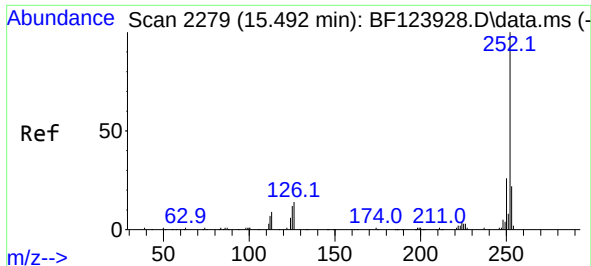
mohammad
5/19/2021 11:37:02 AM



#89
Benzo(k)fluoranthene
Concen: 4.25 ng m
RT: 15.151 min Scan# 2221
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:252 Resp: 37780
Ion Ratio Lower Upper
252 100
253 18.4 17.9 26.9
125 7.3 7.0 10.6





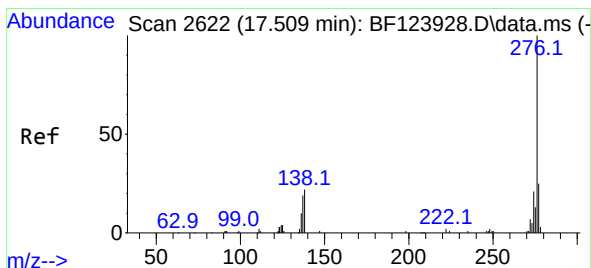
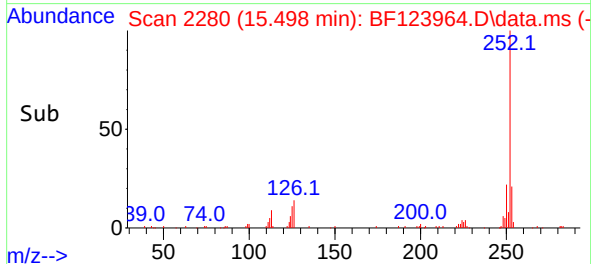
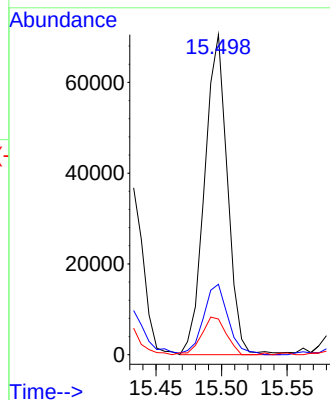
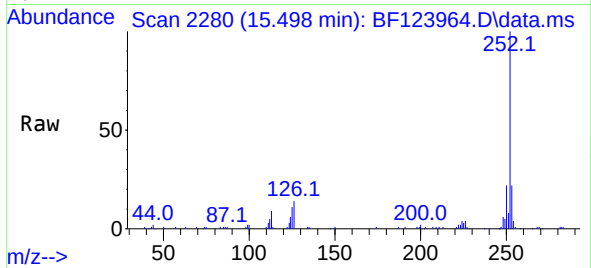
#90
Benzo(a)pyrene
Concen: 10.15 ng
RT: 15.498 min Scan# 2280
Delta R.T. 0.006 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	252	Resp:	85596
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.4	27.6
125	11.2	8.0	12.0

Instrument :
BNA_F
ClientSampleId :
KSB-01(6-8)DL

Manual Integrations
APPROVED

mohammad
5/19/2021 11:37:02 AM



#92
Benzo(g,h,i)perylene
Concen: 4.66 ng
RT: 17.509 min Scan# 2622
Delta R.T. -0.000 min
Lab File: BF123964.D
Acq: 17 May 2021 15:35

Tgt Ion:	276	Resp:	38355
Ion Ratio	Lower	Upper	
276	100		
277	27.3	18.2	27.2#
138	19.6	13.8	20.6

