

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101421\
 Data File : BF125855.D
 Acq On : 14 Oct 2021 20:51
 Operator : JU/CG
 Sample : M4195-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE

Manual Integrations
 APPROVED

mohammad
 10/18/2021 8:34:41 AM

Quant Time: Oct 15 10:43:18 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 14 12:29:41 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	177316	20.00	ng	-0.01
21) Naphthalene-d8	8.116	136	697745	20.00	ng	#-0.01
39) Acenaphthene-d10	9.869	164	381630	20.00	ng	-0.01
64) Phenanthrene-d10	11.357	188	489239	20.00	ng	# 0.00
76) Chrysene-d12	13.992	240	353831	20.00	ng	0.00
86) Perylene-d12	15.445	264	346122	20.00	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	1177008	108.44	ng	-0.01
7) Phenol-d6	6.463	99	1461938	104.63	ng	-0.01
23) Nitrobenzene-d5	7.392	82	871931	77.68	ng	-0.02
42) 2,4,6-Tribromophenol	10.657	330	289217	76.76	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	1573807	71.13	ng	-0.01
79) Terphenyl-d14	12.939	244	1266320	54.52	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	2502907	74.19	ng	98
37) 2-Methylnaphthalene	8.833	142	1769181	80.97	ng	100
38) 1-Methylnaphthalene	8.933	142	1816433	85.68	ng	99
46) 1,1'-Biphenyl	9.292	154	300388	10.71	ng	98
49) Acenaphthylene	9.733	152	730151	21.88	ng	# 91
52) Acenaphthene	9.904	154	634083	30.42	ng	94
55) Dibenzofuran	10.075	168	199241	6.38	ng	# 54
58) Fluorene	10.422	166	1010736	44.20	ng	97
71) Phenanthrene	11.392	178	3706740m	141.61	ng	
72) Anthracene	11.433	178	1203279	46.02	ng	98
75) Fluoranthene	12.586	202	2434979	103.09	ng	95
78) Pyrene	12.816	202	4098979m	114.03	ng	
81) Benzo(a)anthracene	13.986	228	1559407	67.93	ng	95
83) Chrysene	14.021	228	1453511	64.06	ng	95
87) Indeno(1,2,3-cd)pyrene	16.886	276	434966	16.47	ng	94
88) Benzo(b)fluoranthene	15.027	252	1227449m	62.81	ng	
89) Benzo(k)fluoranthene	15.051	252	300396m	14.97	ng	
90) Benzo(a)pyrene	15.392	252	1245182	71.96	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	121774	5.59	ng	94
92) Benzo(g,h,i)perylene	17.327	276	496271	22.30	ng	94

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

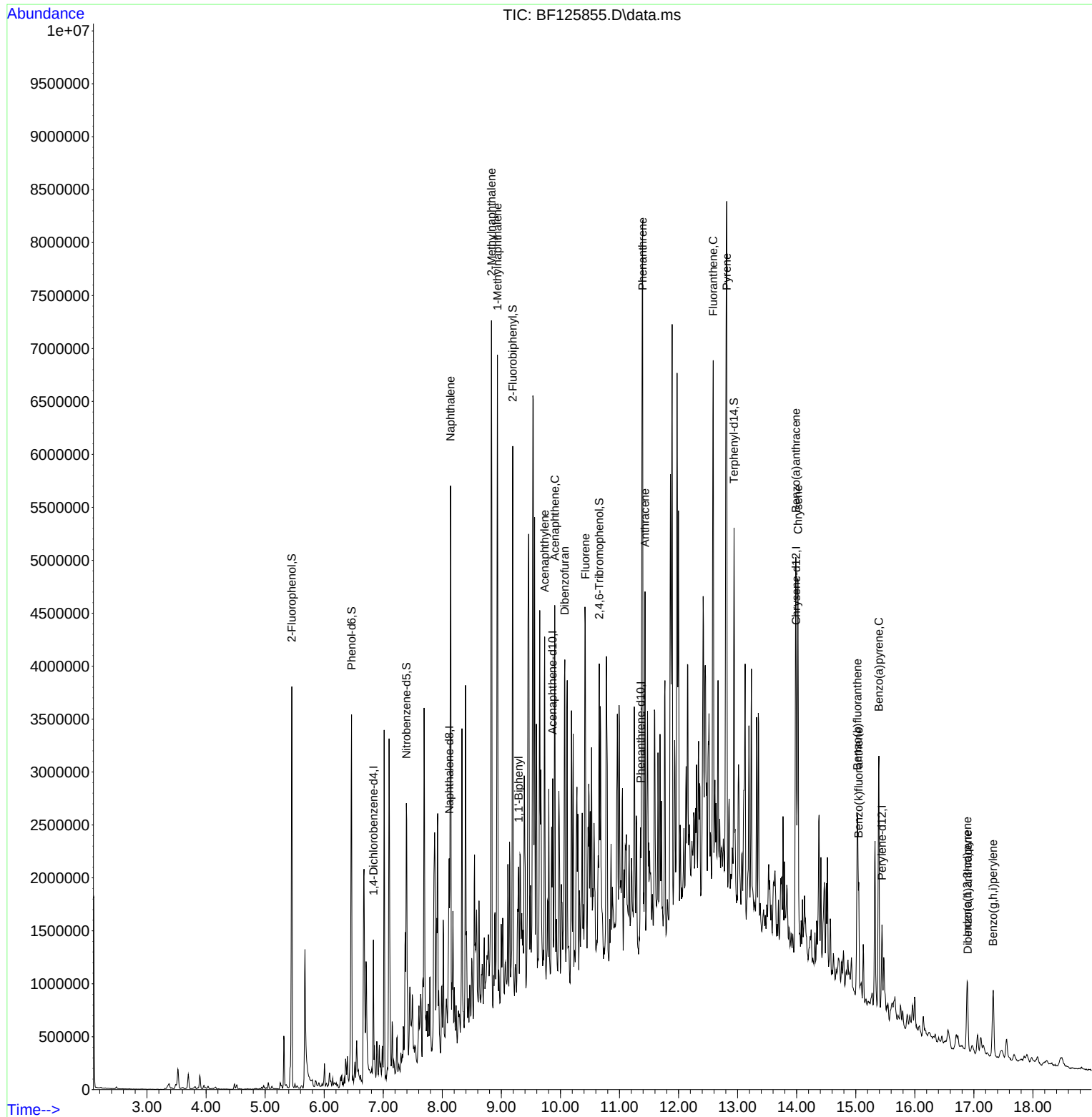
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101421\
Data File : BF125855.D
Acq On : 14 Oct 2021 20:51
Operator : JU/CG
Sample : M4195-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

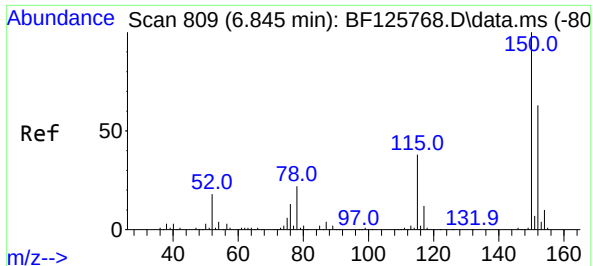
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

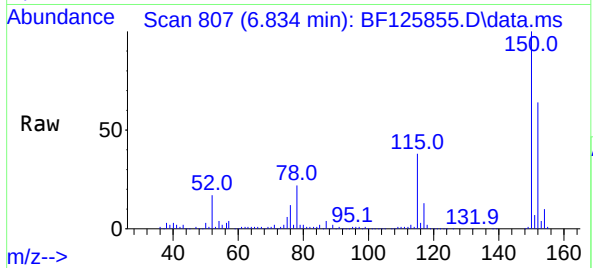
mohammad
10/18/2021 8:34:41 AM

Quant Time: Oct 15 10:43:18 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 14 12:29:41 2021
Response via : Initial Calibration

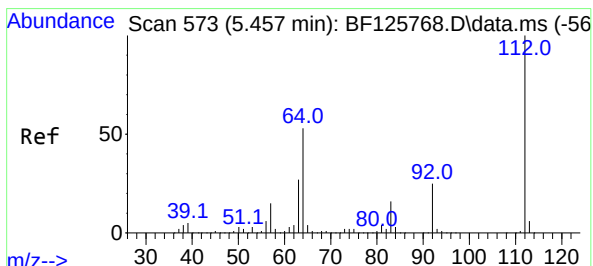
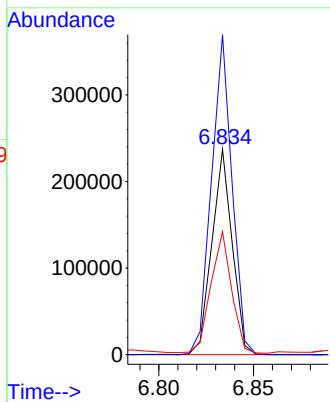
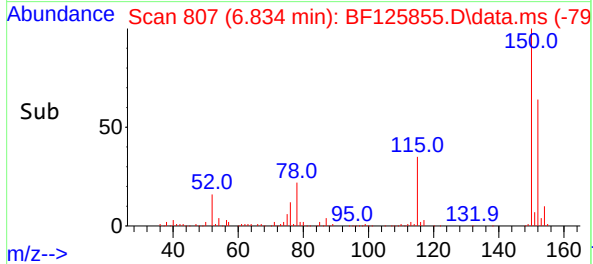




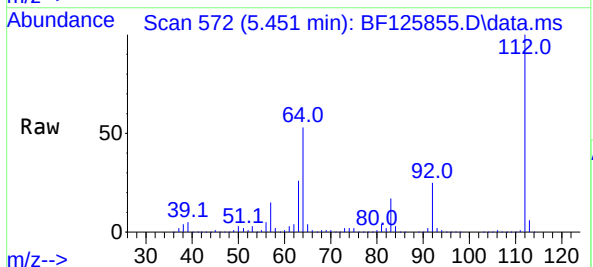
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.834 min Scan# 807
Delta R.T. -0.011 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



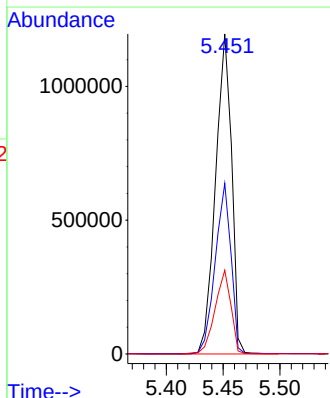
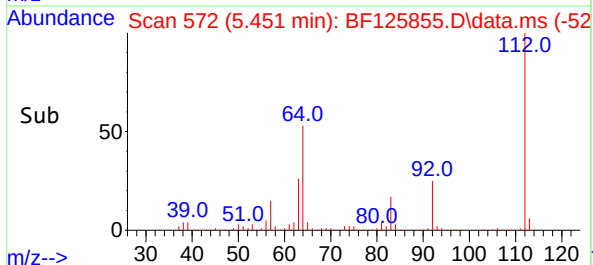
Tgt Ion:152 Resp: 177316
Ion Ratio Lower Upper
152 100
150 155.8 117.6 176.4
115 59.9 47.1 70.7



#5
2-Fluorophenol
Concen: 108.44 ng
RT: 5.451 min Scan# 572
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



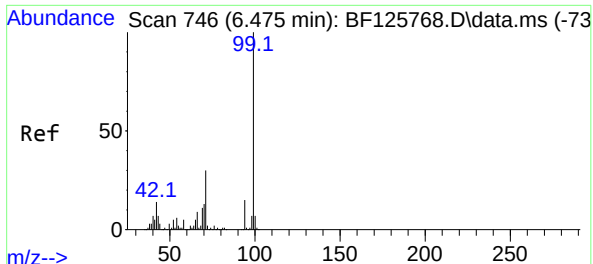
Tgt Ion:112 Resp: 1177008
Ion Ratio Lower Upper
112 100
64 53.3 44.2 66.2
63 26.2 26.2 39.2



Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

mohammad
10/18/2021 8:34:41 AM



#7
Phenol-d6
Concen: 104.63 ng
RT: 6.463 min Scan# 744
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

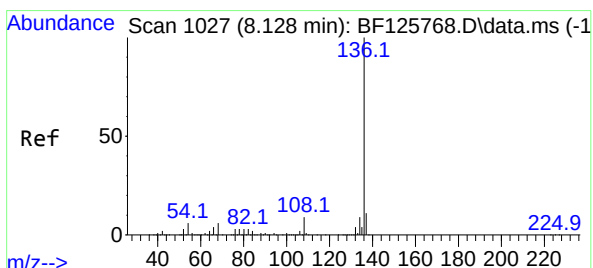
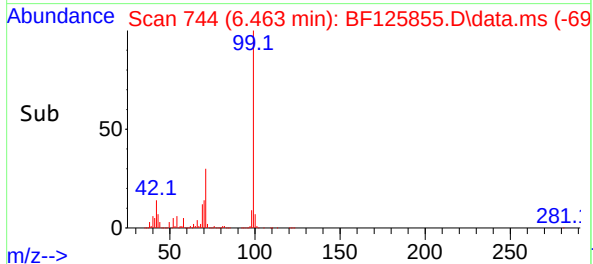
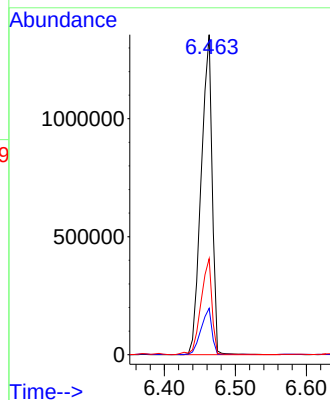
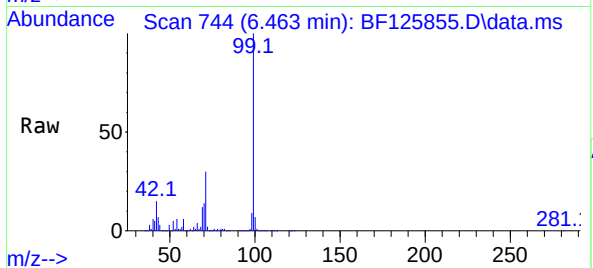
Tgt Ion: 99 Resp: 1461938

Ion	Ratio	Lower	Upper
99	100		
42	14.5	23.5	35.3#
71	30.0	25.6	38.4

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

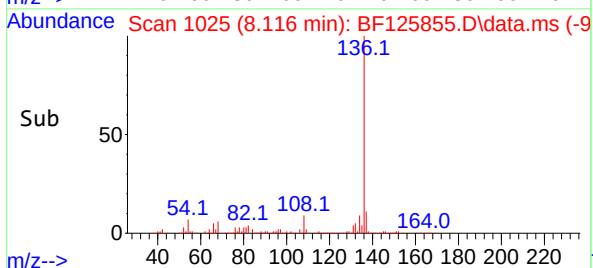
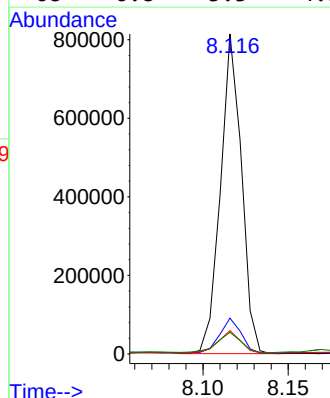
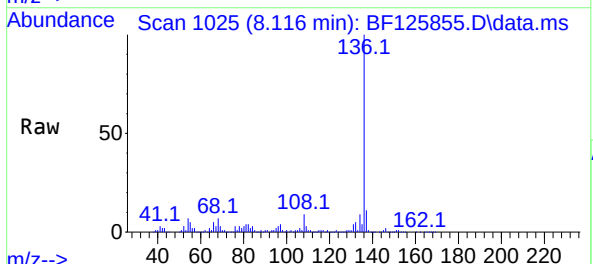
mohammad
10/18/2021 8:34:41 AM

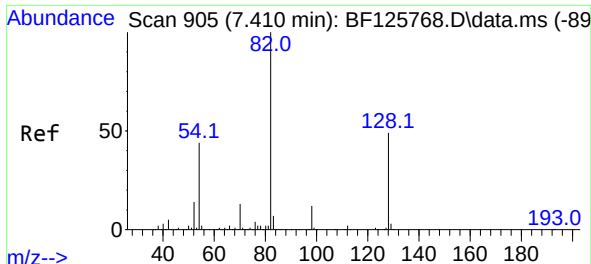


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion: 136 Resp: 697745

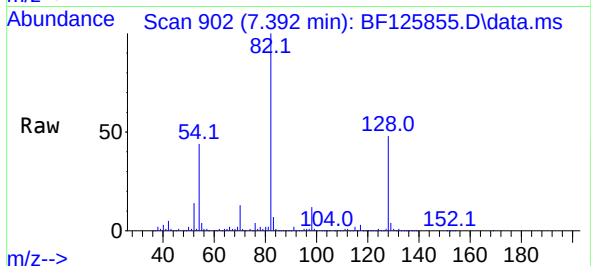
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.8	14.6
54	7.3	6.4	9.6
68	6.8	3.3	4.9#





#23
Nitrobenzene-d5
Concen: 77.68 ng
RT: 7.392 min Scan# 902
Delta R.T. -0.018 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

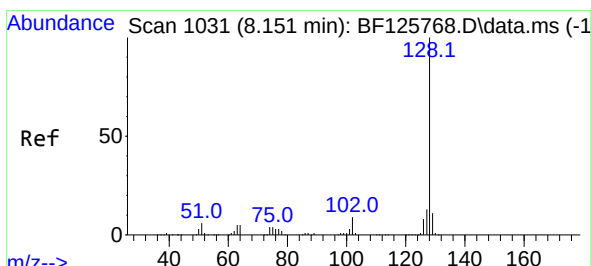
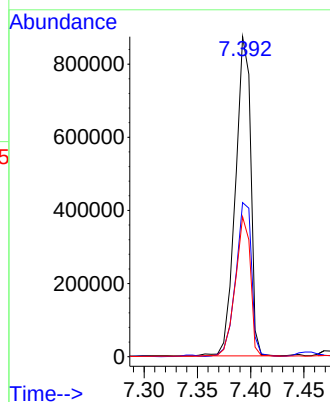
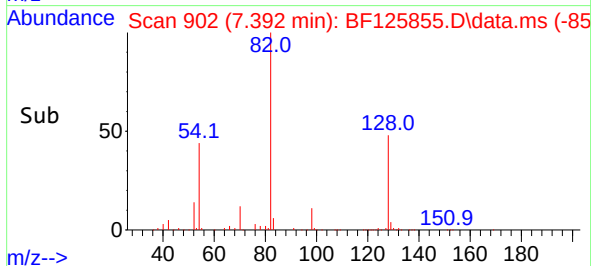
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



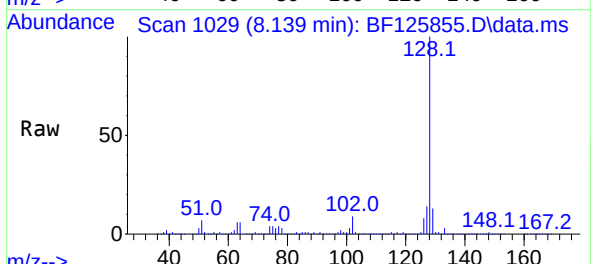
Tgt Ion: 82 Resp: 871931
Ion Ratio Lower Upper
82 100
128 48.2 40.6 60.8
54 43.7 49.6 74.4#

Manual Integrations
APPROVED

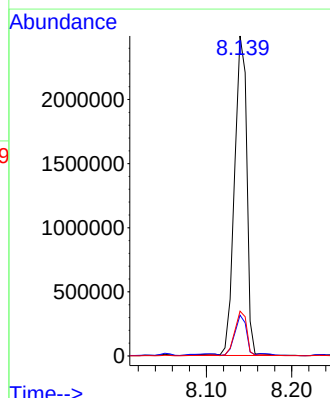
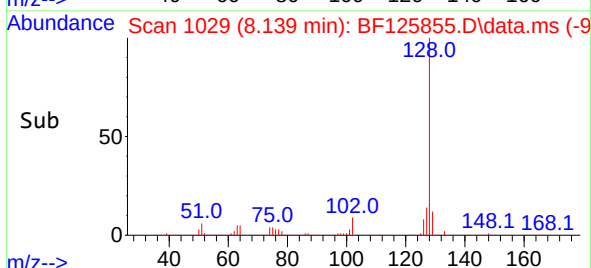
mohammad
10/18/2021 8:34:41 AM

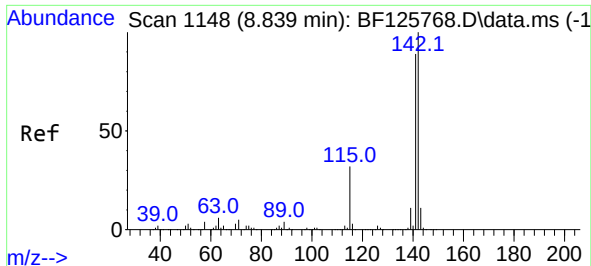


#31
Naphthalene
Concen: 74.19 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



Tgt Ion: 128 Resp: 2502907
Ion Ratio Lower Upper
128 100
129 12.7 9.4 14.0
127 14.0 10.9 16.3





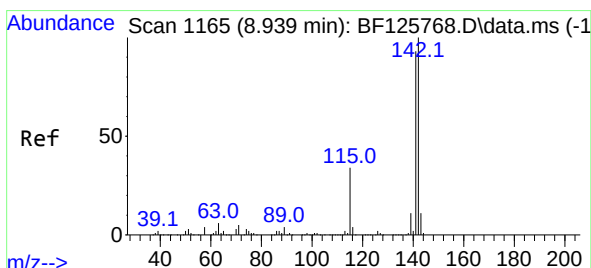
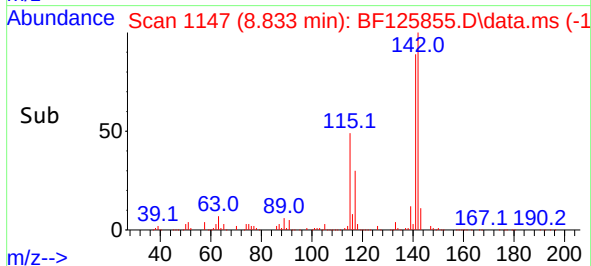
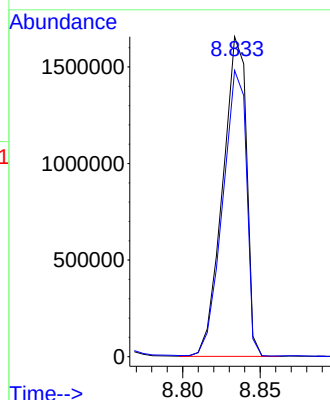
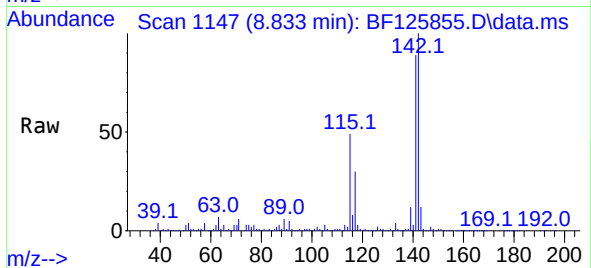
#37
2-Methylnaphthalene
Concen: 80.97 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion:142 Resp: 1769181
Ion Ratio Lower Upper
142 100
141 89.4 71.2 106.8

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

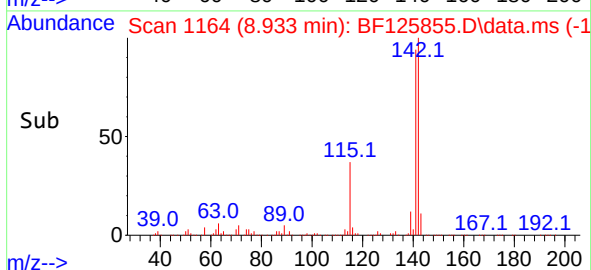
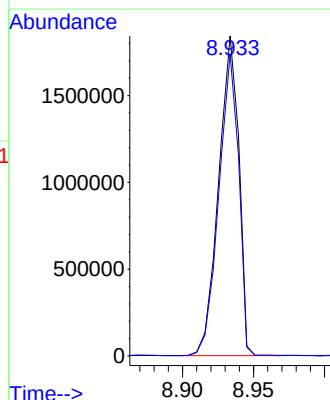
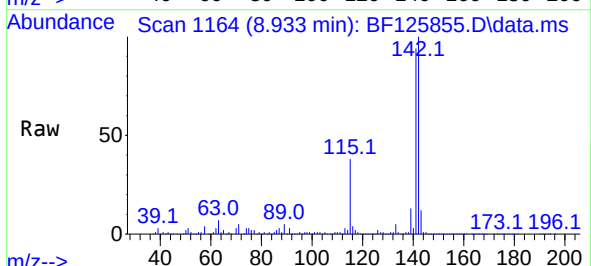
Manual Integrations
APPROVED

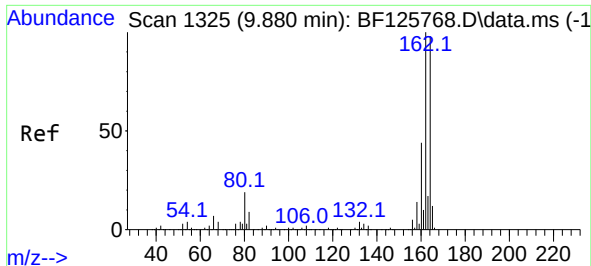
mohammad
10/18/2021 8:34:41 AM



#38
1-Methylnaphthalene
Concen: 85.68 ng
RT: 8.933 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion:142 Resp: 1816433
Ion Ratio Lower Upper
142 100
141 94.3 76.0 114.0





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.869 min Scan# 1323

Delta R.T. -0.012 min

Lab File: BF125855.D

Acq: 14 Oct 2021 20:51

Tgt Ion:	164	Resp:	381630
Ion Ratio	Lower	Upper	
164	100		
162	100.2	81.3	121.9
160	42.7	38.0	57.0

Instrument :

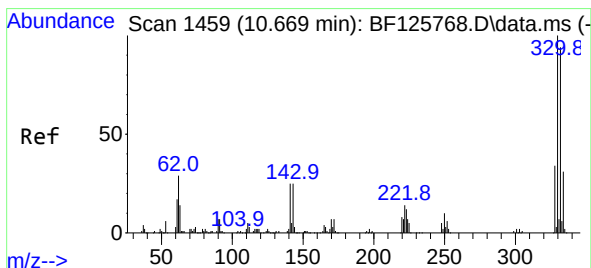
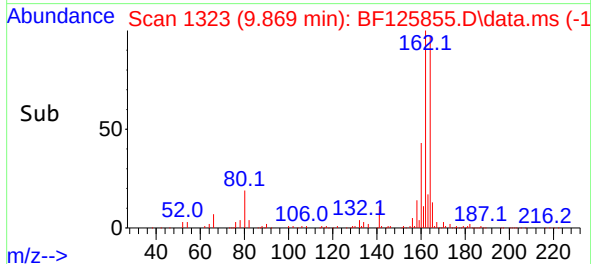
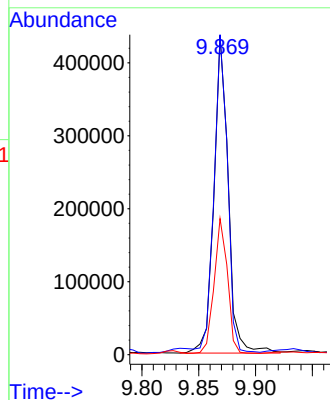
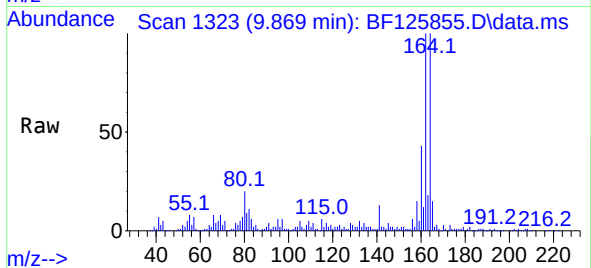
BNA_F

ClientSampleId :

HAR-SOILPILE

Manual Integrations
APPROVED

mohammad
10/18/2021 8:34:41 AM



#42

2,4,6-Tribromophenol

Concen: 76.76 ng

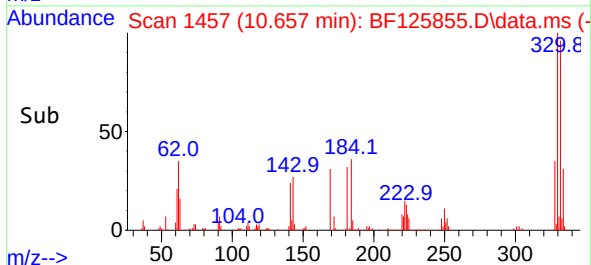
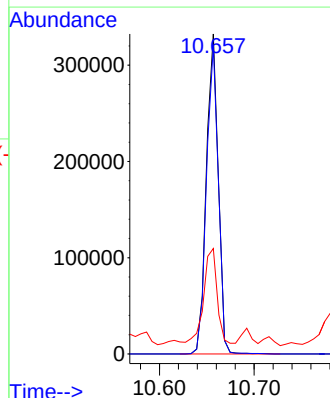
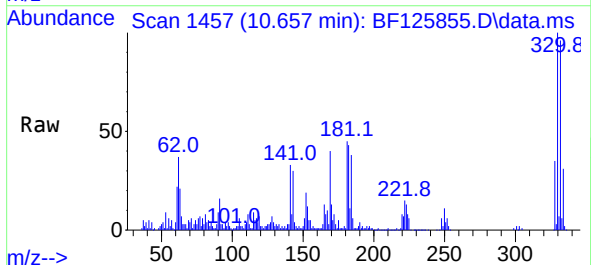
RT: 10.657 min Scan# 1457

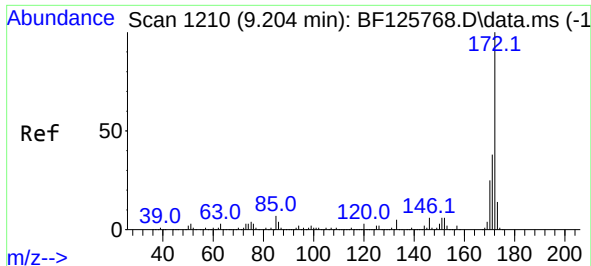
Delta R.T. -0.012 min

Lab File: BF125855.D

Acq: 14 Oct 2021 20:51

Tgt Ion:	330	Resp:	289217
Ion Ratio	Lower	Upper	
330	100		
332	96.2	76.2	114.4
141	33.0	44.6	66.8





#45
2-Fluorobiphenyl
Concen: 71.13 ng
RT: 9.192 min Scan# 1208
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

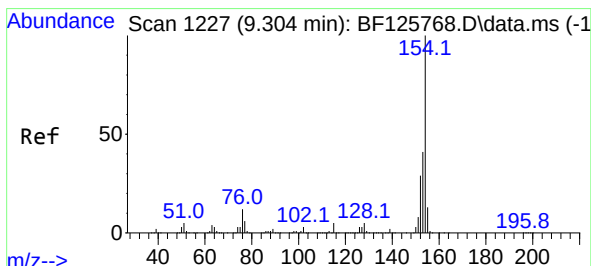
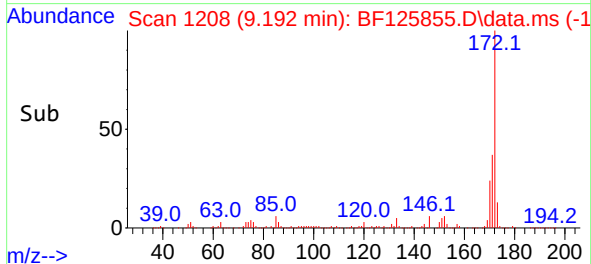
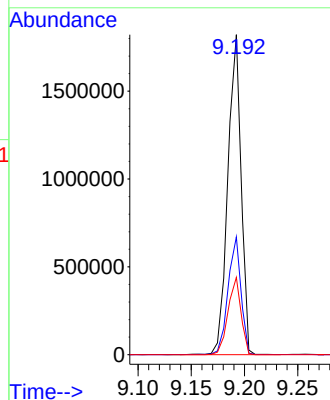
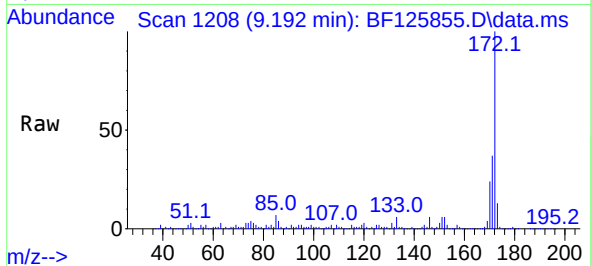
Tgt Ion:172 Resp: 1573807

Ion	Ratio	Lower	Upper
172	100		
171	36.8	26.5	39.7
170	24.2	18.8	28.2

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

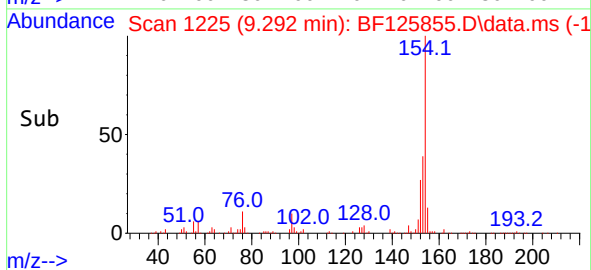
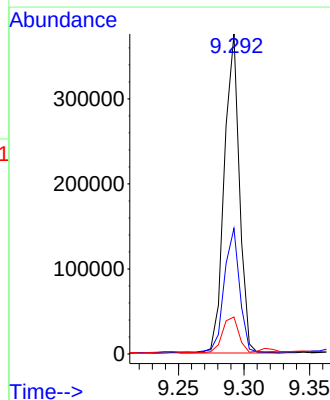
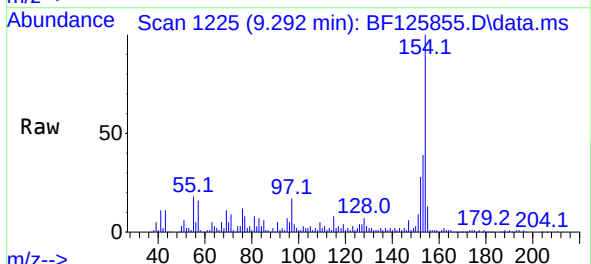
mohammad
10/18/2021 8:34:41 AM

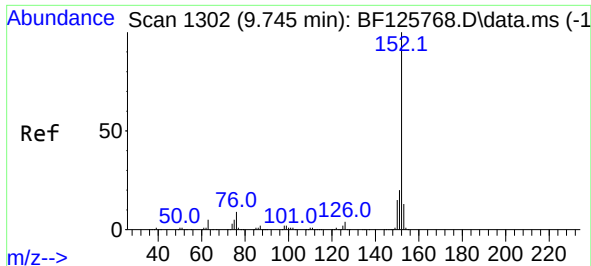


#46
1,1'-Biphenyl
Concen: 10.71 ng
RT: 9.292 min Scan# 1225
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion:154 Resp: 300388

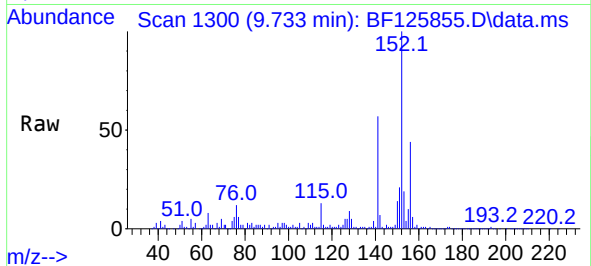
Ion	Ratio	Lower	Upper
154	100		
153	39.3	20.0	60.0
76	11.6	0.0	30.3





#49
Acenaphthylene
Concen: 21.88 ng
RT: 9.733 min Scan# 1300
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

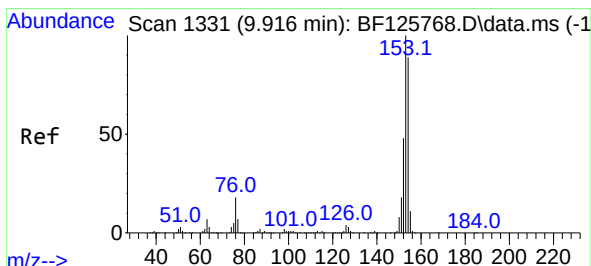
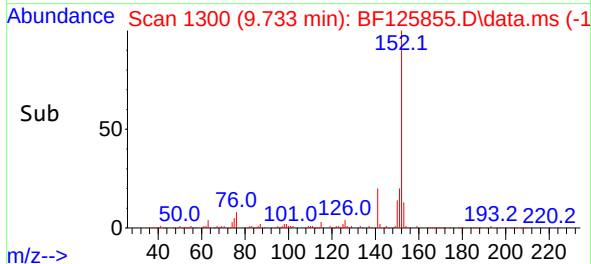
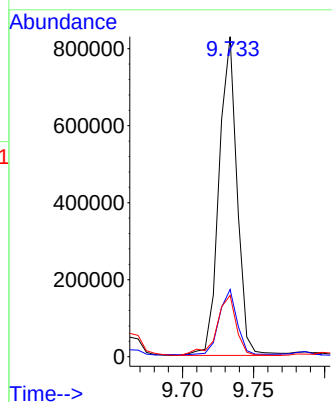
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



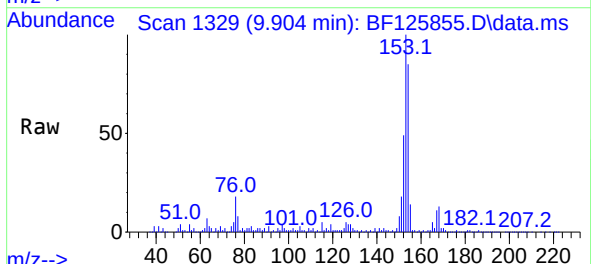
Tgt Ion:152 Resp: 730151
Ion Ratio Lower Upper
152 100
151 21.0 15.7 23.5
153 19.1 9.8 14.8#

Manual Integrations
APPROVED

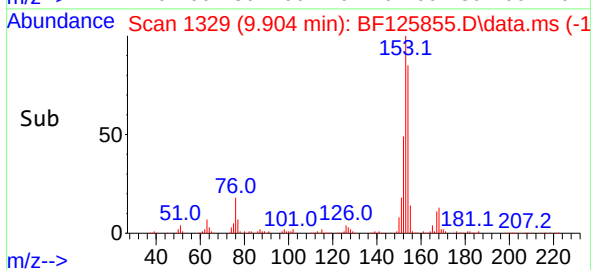
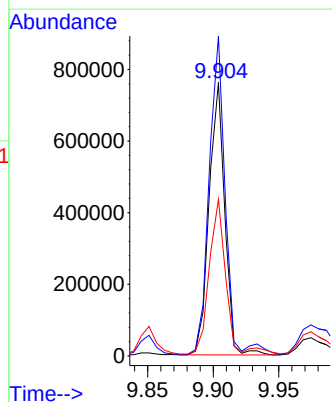
mohammad
10/18/2021 8:34:41 AM

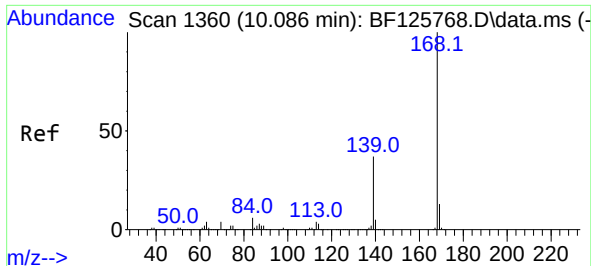


#52
Acenaphthene
Concen: 30.42 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



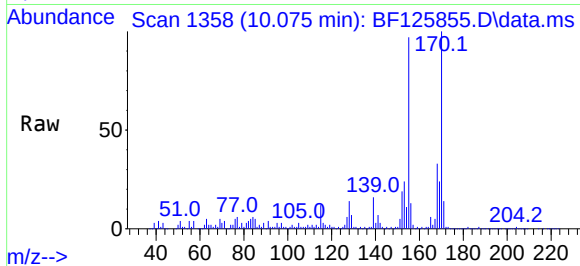
Tgt Ion:154 Resp: 634083
Ion Ratio Lower Upper
154 100
153 117.1 89.4 134.2
152 57.3 40.5 60.7





#55
Dibenzenofuran
Concen: 6.38 ng
RT: 10.075 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

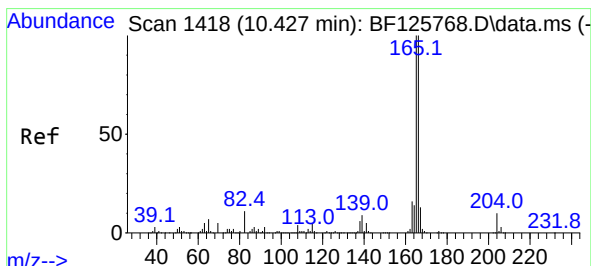
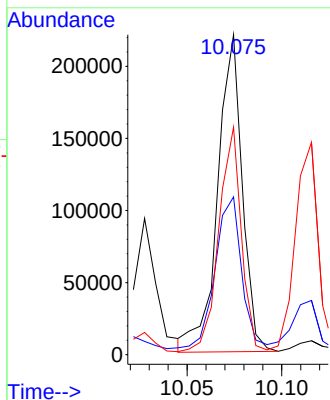
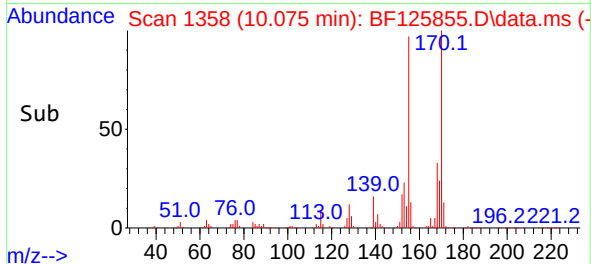
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



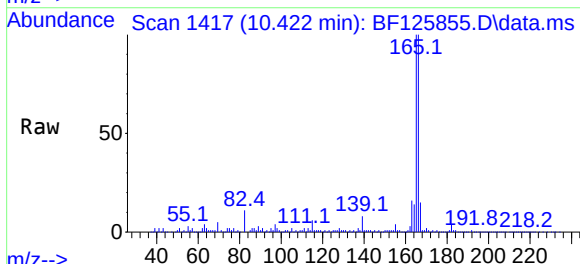
Tgt Ion:168 Resp: 199241
Ion Ratio Lower Upper
168 100
139 49.3 32.7 49.1#
169 71.1 11.2 16.8#

Manual Integrations
APPROVED

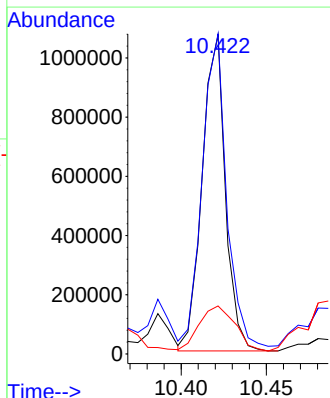
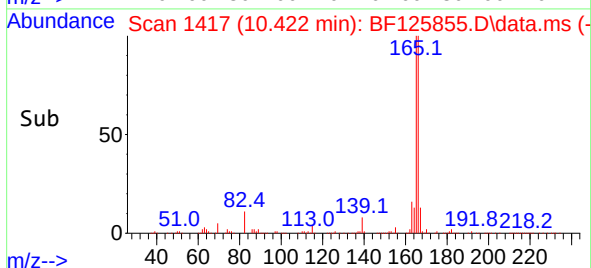
mohammad
10/18/2021 8:34:41 AM

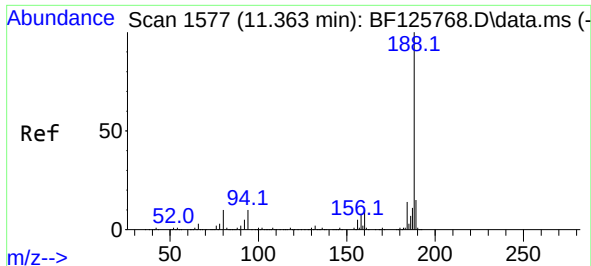


#58
Fluorene
Concen: 44.20 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



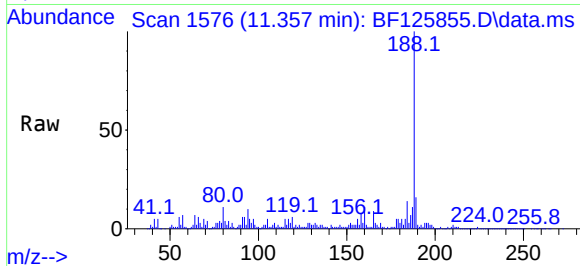
Tgt Ion:166 Resp: 1010736
Ion Ratio Lower Upper
166 100
165 100.3 78.1 117.1
167 15.1 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

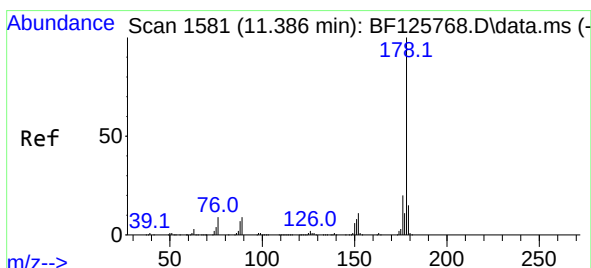
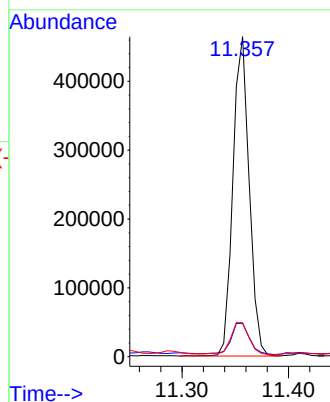
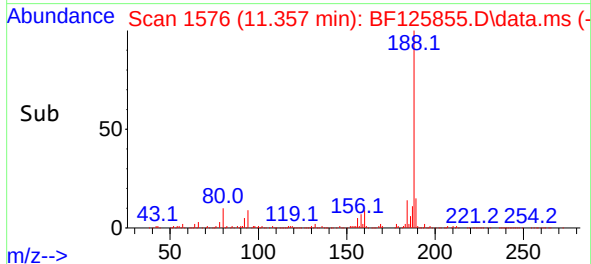
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



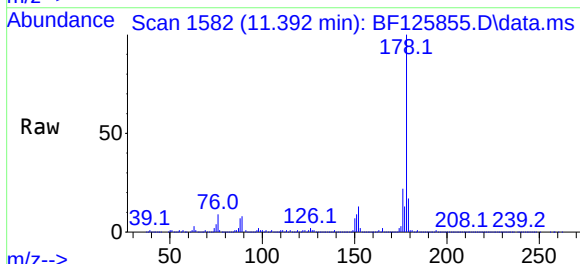
Tgt Ion:188 Resp: 489239
Ion Ratio Lower Upper
188 100
94 10.4 6.7 10.1#
80 10.6 7.5 11.3

Manual Integrations
APPROVED

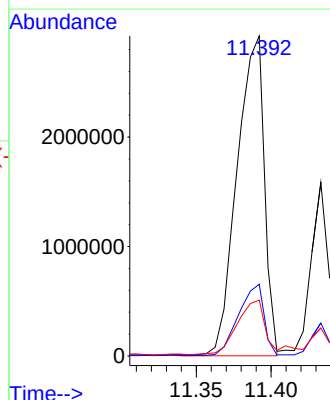
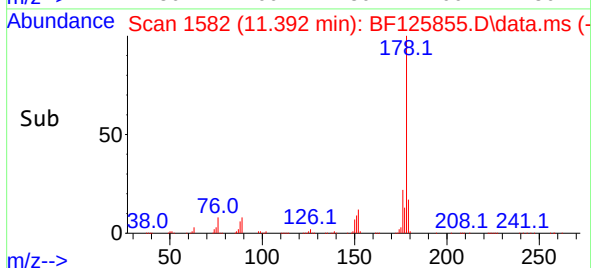
mohammad
10/18/2021 8:34:41 AM

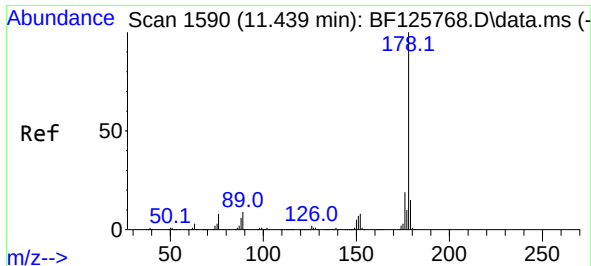


#71
Phenanthrene
Concen: 141.61 ng m
RT: 11.392 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



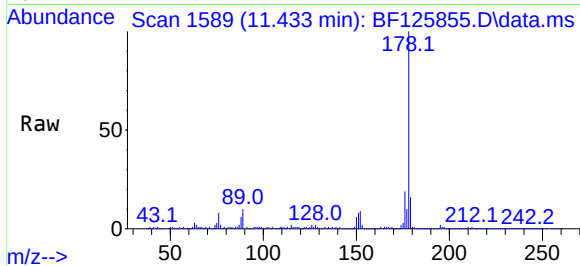
Tgt Ion:178 Resp: 3706740
Ion Ratio Lower Upper
178 100
176 22.4 14.7 22.1#
179 17.5 11.5 17.3#





#72
 Anthracene
 Concen: 46.02 ng
 RT: 11.433 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF125855.D
 Acq: 14 Oct 2021 20:51

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE

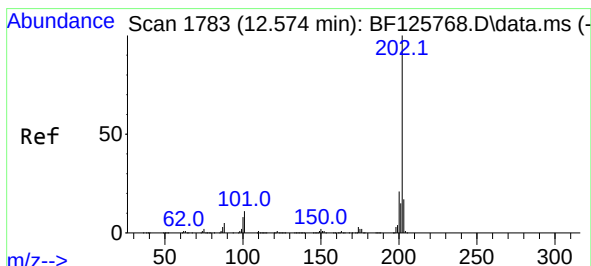
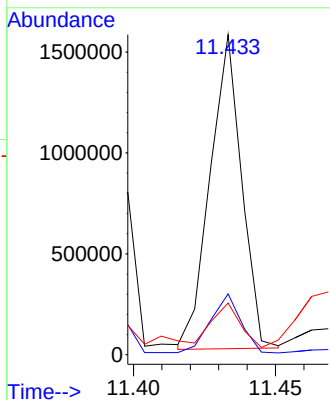
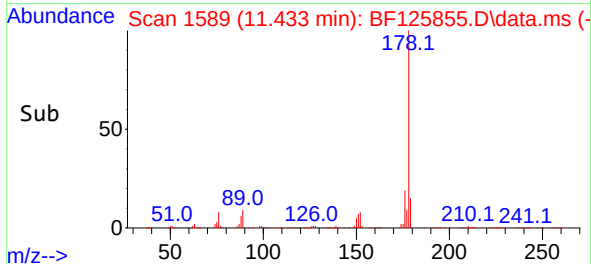


Tgt Ion:178 Resp: 1203279

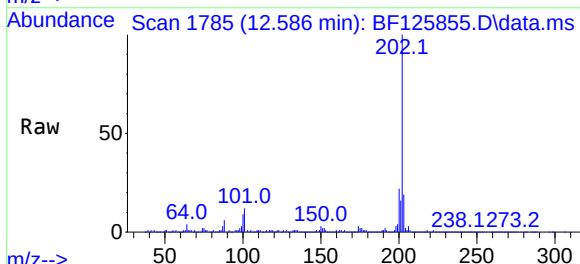
Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.3	21.5
179	16.2	12.2	18.4

Manual Integrations
 APPROVED

mohammad
 10/18/2021 8:34:41 AM

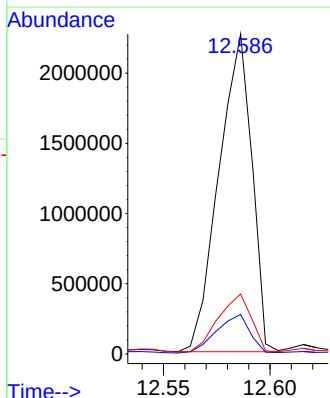
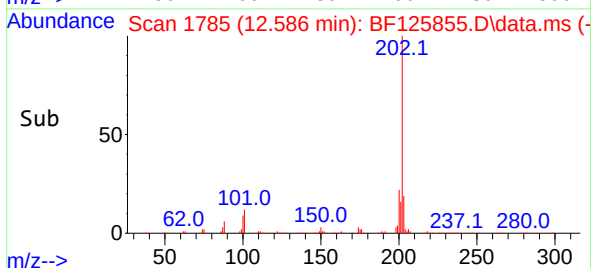


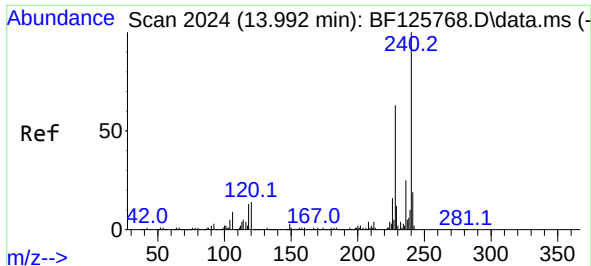
#75
 Fluoranthene
 Concen: 103.09 ng
 RT: 12.586 min Scan# 1785
 Delta R.T. 0.012 min
 Lab File: BF125855.D
 Acq: 14 Oct 2021 20:51



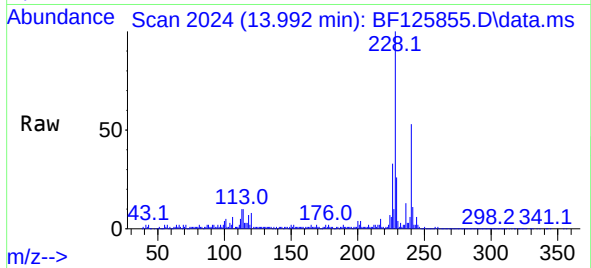
Tgt Ion:202 Resp: 2434979

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	30.7
203	18.8	0.0	36.3

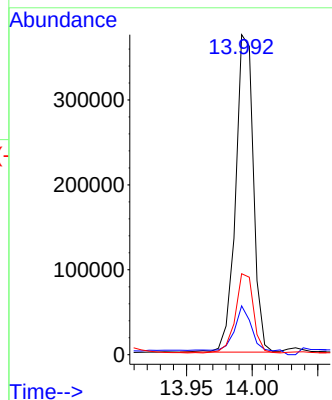




#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



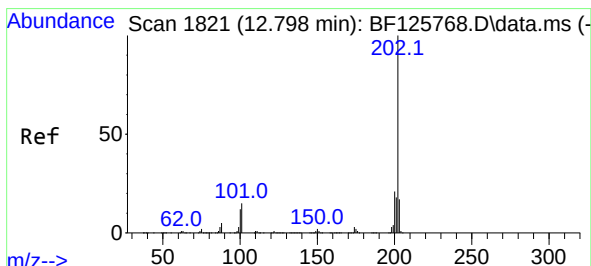
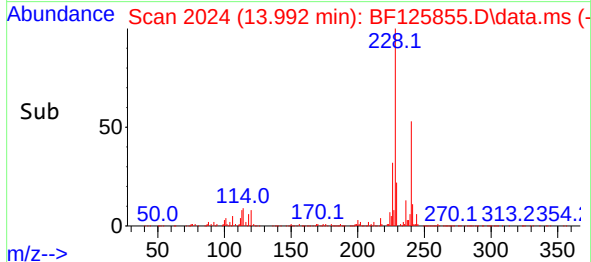
Tgt Ion:240 Resp: 353831
Ion Ratio Lower Upper
240 100
120 15.3 10.8 16.2
236 25.3 21.6 32.4



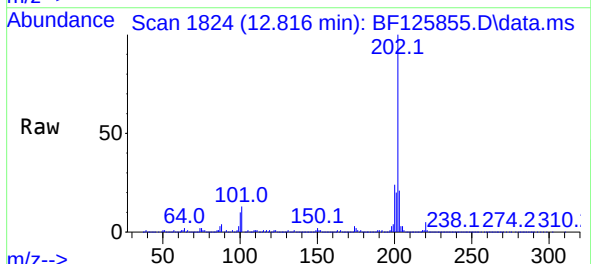
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

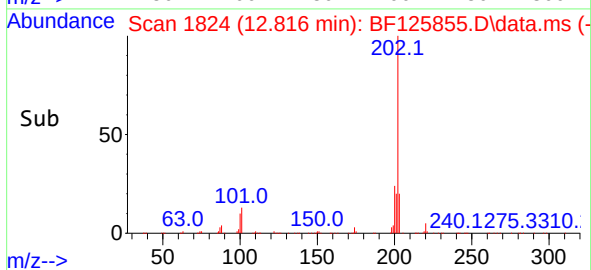
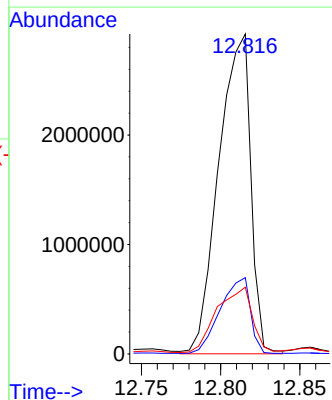
mohammad
10/18/2021 8:34:41 AM

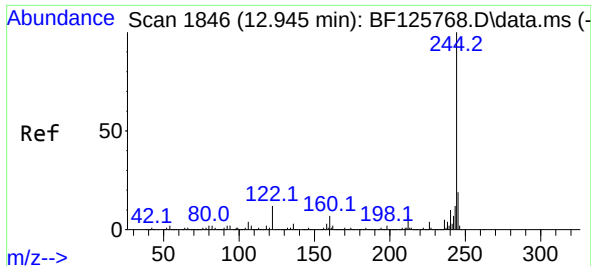


#78
Pyrene
Concen: 114.03 ng m
RT: 12.816 min Scan# 1824
Delta R.T. 0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



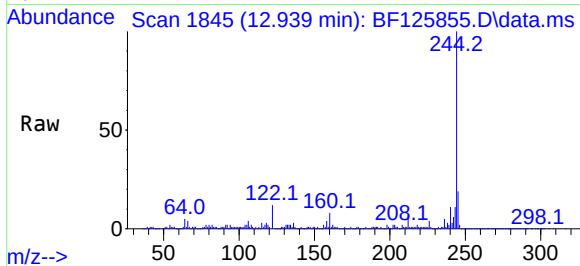
Tgt Ion:202 Resp: 4098979
Ion Ratio Lower Upper
202 100
200 23.9 15.3 22.9#
203 20.9 13.4 20.0#





#79
Terphenyl-d14
Concen: 54.52 ng
RT: 12.939 min Scan# 1845
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

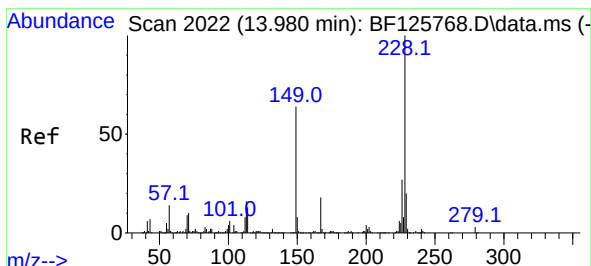
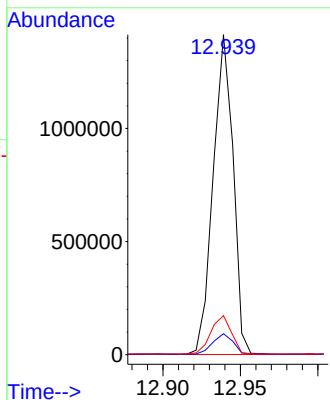
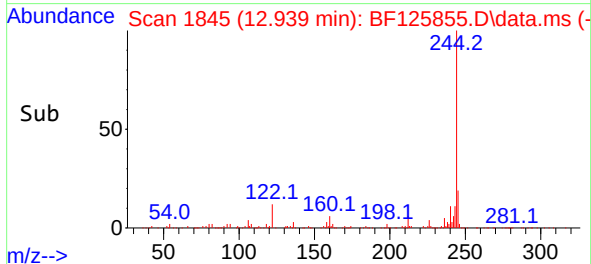
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



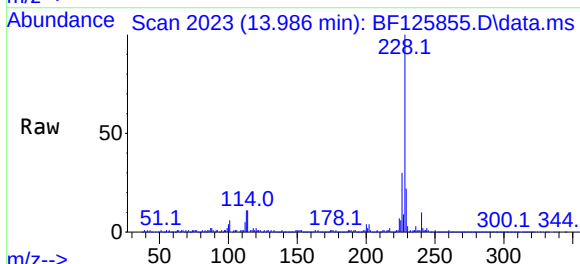
Tgt Ion:244 Resp: 1266320
Ion Ratio Lower Upper
244 100
212 6.6 5.9 8.9
122 12.2 9.0 13.4

Manual Integrations
APPROVED

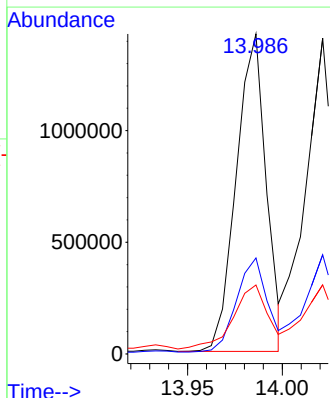
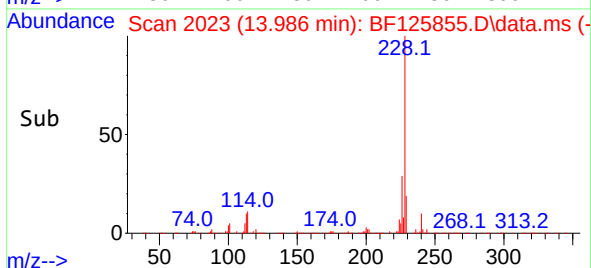
mohammad
10/18/2021 8:34:41 AM

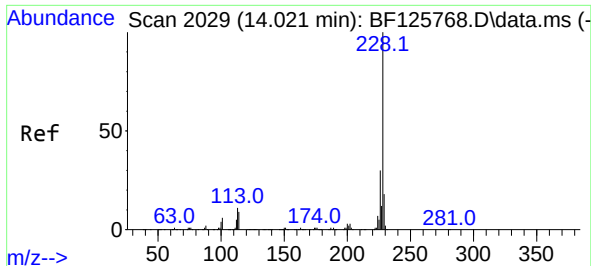


#81
Benzo(a)anthracene
Concen: 67.93 ng
RT: 13.986 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



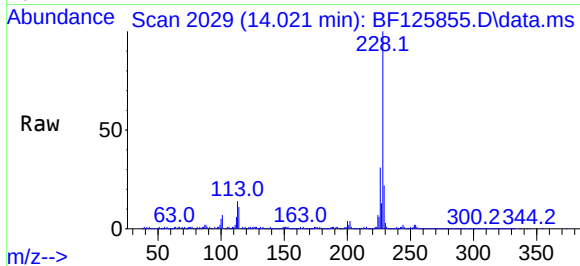
Tgt Ion:228 Resp: 1559407
Ion Ratio Lower Upper
228 100
226 30.0 21.6 32.4
229 21.5 15.6 23.4





#83
Chrysene
Concen: 64.06 ng
RT: 14.021 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

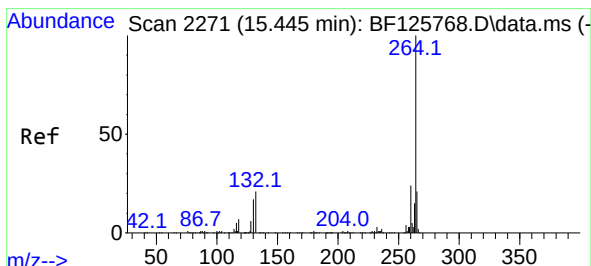
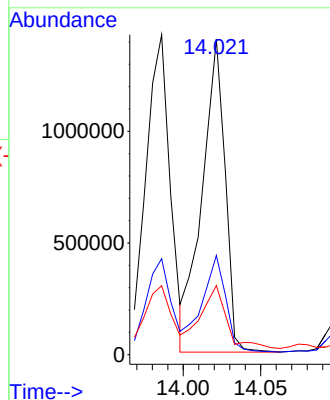
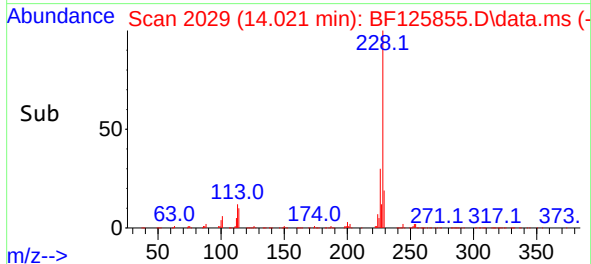
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



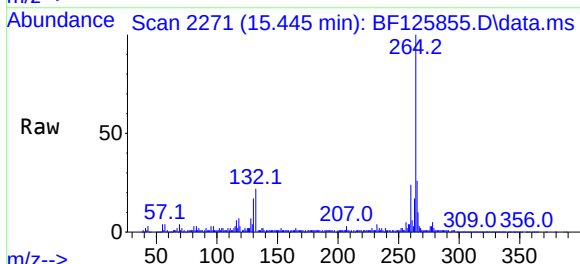
Tgt Ion:228 Resp: 1453511
Ion Ratio Lower Upper
228 100
226 31.4 22.6 34.0
229 21.9 15.9 23.9

Manual Integrations
APPROVED

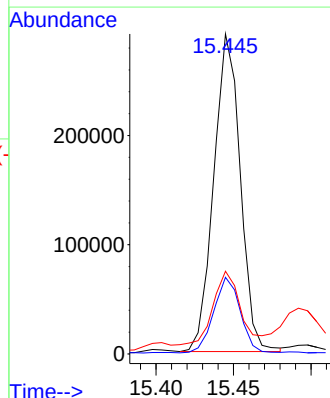
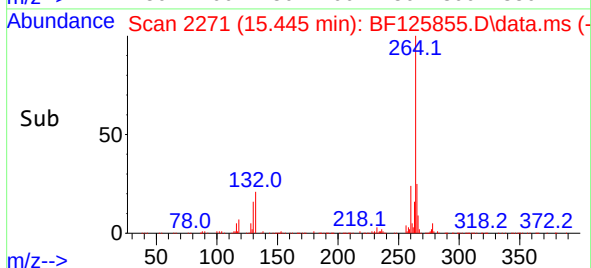
mohammad
10/18/2021 8:34:41 AM

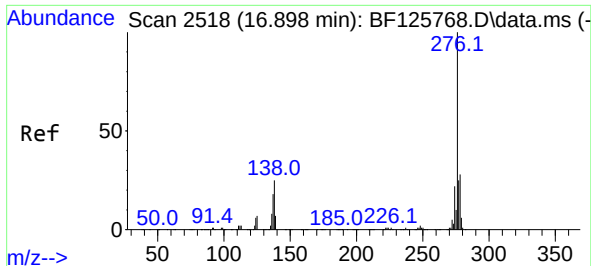


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.445 min Scan# 2271
Delta R.T. -0.006 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



Tgt Ion:264 Resp: 346122
Ion Ratio Lower Upper
264 100
260 23.9 19.6 29.4
265 25.8 17.2 25.8#





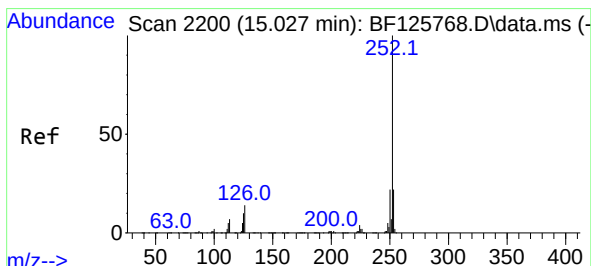
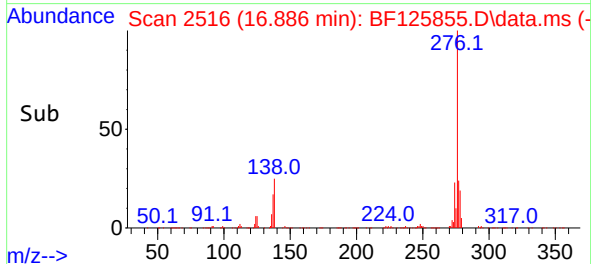
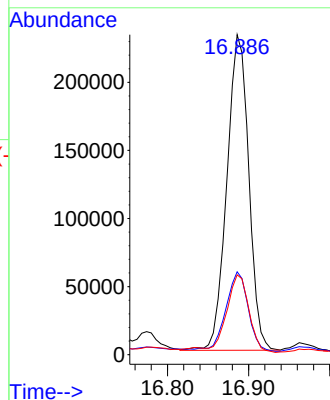
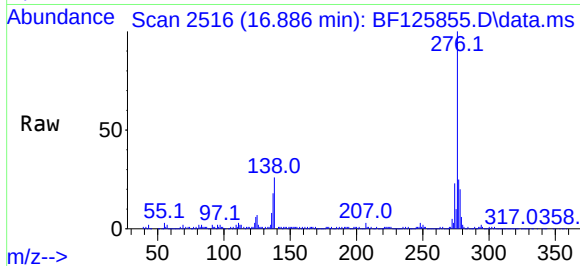
#87
Indeno(1,2,3-cd)pyrene
Concen: 16.47 ng
RT: 16.886 min Scan# 2516
Delta R.T. -0.024 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion: 276 Resp: 434966
Ion Ratio Lower Upper
276 100
138 25.7 24.1 36.1
277 24.6 18.8 28.2

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

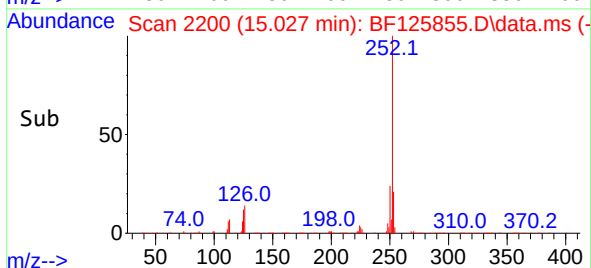
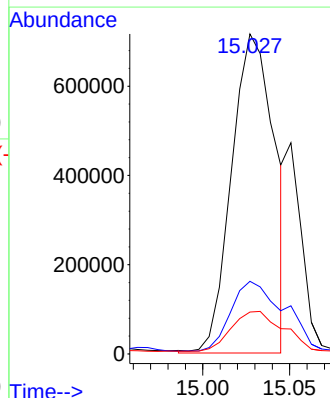
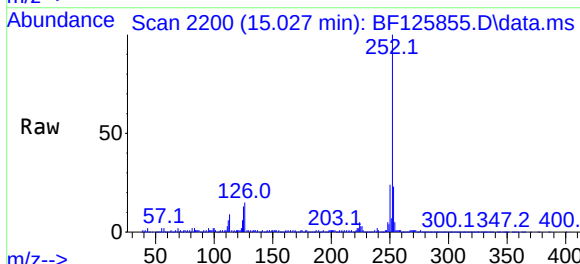
Manual Integrations
APPROVED

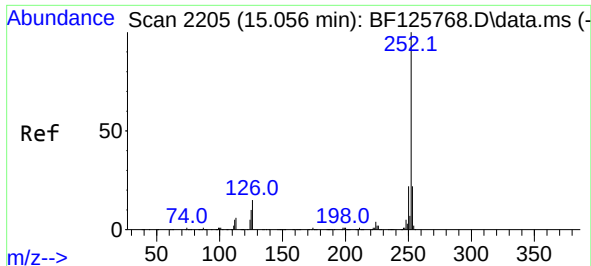
mohammad
10/18/2021 8:34:41 AM



#88
Benzo(b)fluoranthene
Concen: 62.81 ng m
RT: 15.027 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

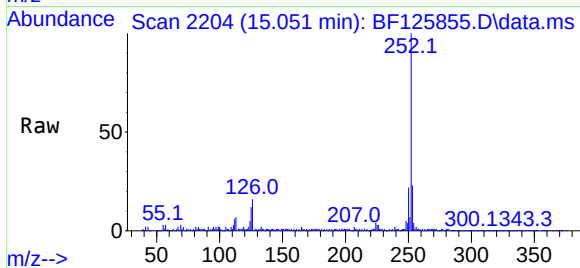
Tgt Ion: 252 Resp: 1227449
Ion Ratio Lower Upper
252 100
253 22.7 16.8 25.2
125 13.1 9.8 14.8





#89
Benzo(k)fluoranthene
Concen: 14.97 ng m
RT: 15.051 min Scan# 2204
Delta R.T. -0.012 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

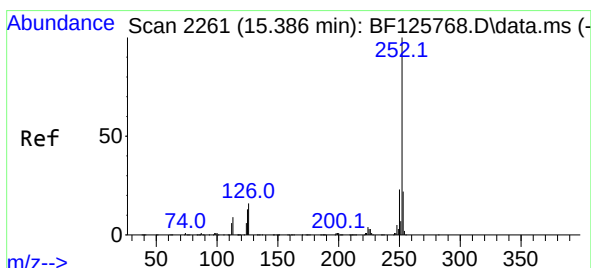
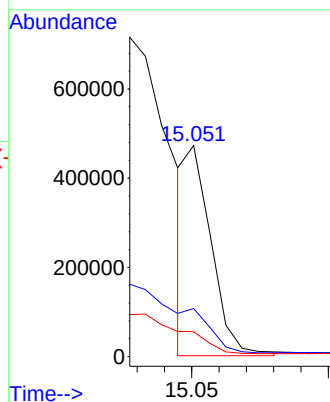
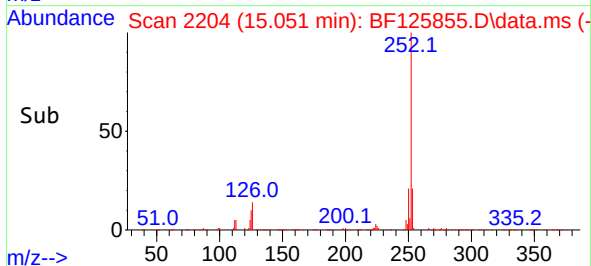
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE



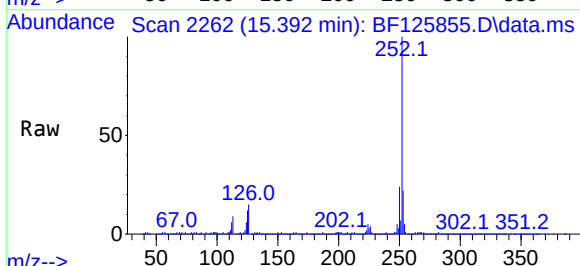
Tgt Ion:252 Resp: 300396
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 11.8 7.2 10.8#

Manual Integrations
APPROVED

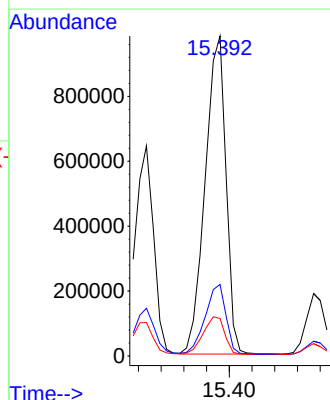
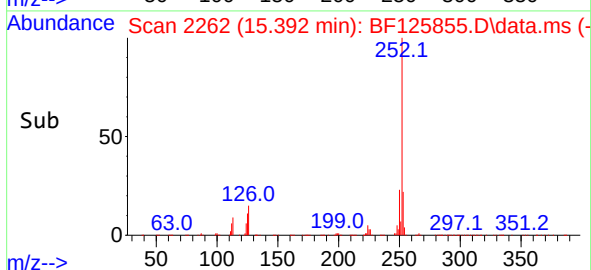
mohammad
10/18/2021 8:34:41 AM

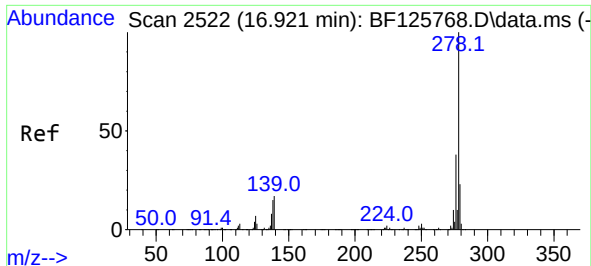


#90
Benzo(a)pyrene
Concen: 71.96 ng
RT: 15.392 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51



Tgt Ion:252 Resp: 1245182
Ion Ratio Lower Upper
252 100
253 22.4 18.4 27.6
125 11.7 9.9 14.9





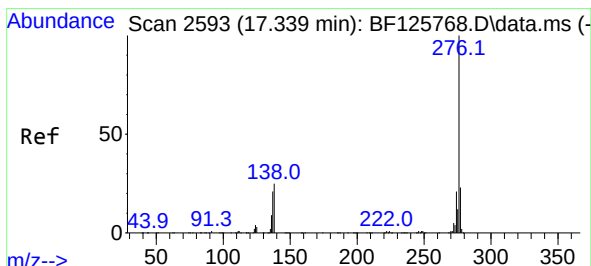
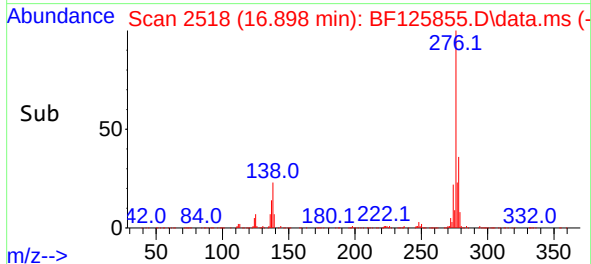
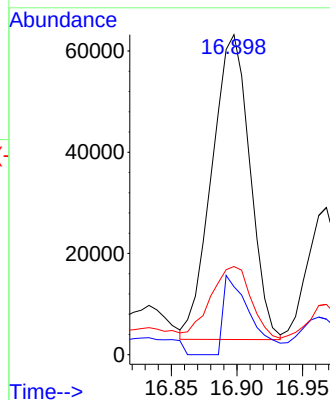
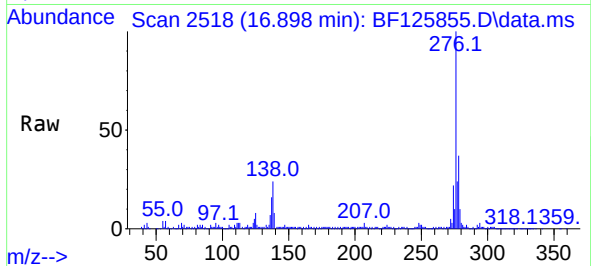
#91
Dibenzo(a,h)anthracene
Concen: 5.59 ng
RT: 16.898 min Scan# 2518
Delta R.T. -0.029 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion: 278 Resp: 121774
Ion Ratio Lower Upper
278 100
139 21.3 14.9 22.3
279 27.5 19.7 29.5

Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE

Manual Integrations
APPROVED

mohammad
10/18/2021 8:34:41 AM



#92
Benzo(g,h,i)perylene
Concen: 22.30 ng
RT: 17.327 min Scan# 2591
Delta R.T. -0.024 min
Lab File: BF125855.D
Acq: 14 Oct 2021 20:51

Tgt Ion: 276 Resp: 496271
Ion Ratio Lower Upper
276 100
277 23.7 22.0 33.0
138 25.2 22.2 33.4

