

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021122\
 Data File : BF126865.D
 Acq On : 11 Feb 2022 18:56
 Operator : CG\JU
 Sample : N1436-02DL 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 289DL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/15/2022
 Supervised By :mohammad ahmed 02/15/2022

Quant Time: Feb 11 22:44:26 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 10 00:44:00 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.940	152	114853	20.000	ng	0.00
21) Naphthalene-d8	8.222	136	483551	20.000	ng	0.00
39) Acenaphthene-d10	9.980	164	245153	20.000	ng	0.00
64) Phenanthrene-d10	11.475	188	418860	20.000	ng	0.00
76) Chrysene-d12	14.116	240	200722	20.000	ng	0.00
86) Perylene-d12	15.621	264	218154	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.545	112	370233	49.631	ng	-0.01
7) Phenol-d6	6.551	99	508502	50.495	ng	-0.01
23) Nitrobenzene-d5	7.498	82	344150	32.838	ng	-0.01
42) 2,4,6-Tribromophenol	10.769	330	125873	47.893	ng	0.00
45) 2-Fluorobiphenyl	9.292	172	573335	35.204	ng	-0.01
79) Terphenyl-d14	13.057	244	532853	38.057	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.245	128	1175712	46.882	ng	99
37) 2-Methylnaphthalene	8.934	142	664264	41.448	ng	99
38) 1-Methylnaphthalene	9.034	142	405121	26.126	ng	100
46) 1,1'-Biphenyl	9.398	154	205419	10.564	ng	99
49) Acenaphthylene	9.839	152	48949	2.091	ng	# 96
52) Acenaphthene	10.016	154	568481	37.985	ng	98
55) Dibenzofuran	10.186	168	807042	39.165	ng	98
58) Fluorene	10.533	166	804195	50.880	ng	98
71) Phenanthrene	11.510	178	3257190	140.344	ng	97
72) Anthracene	11.551	178	615637	26.549	ng	99
73) Carbazole	11.698	167	250498	11.868	ng	99
75) Fluoranthene	12.698	202	1762535	81.190	ng	99
78) Pyrene	12.921	202	1242722	68.214	ng	100
81) Benzo(a)anthracene	14.104	228	331197	24.357	ng	99
83) Chrysene	14.139	228	263971	20.674	ng	97
87) Indeno(1,2,3-cd)pyrene	17.151	276	66026	4.245	ng	96
88) Benzo(b)fluoranthene	15.174	252	230484m	16.539	ng	
89) Benzo(k)fluoranthene	15.204	252	83993m	5.838	ng	
90) Benzo(a)pyrene	15.557	252	157756	13.873	ng	95
92) Benzo(g,h,i)perylene	17.621	276	56651	4.408	ng	98

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

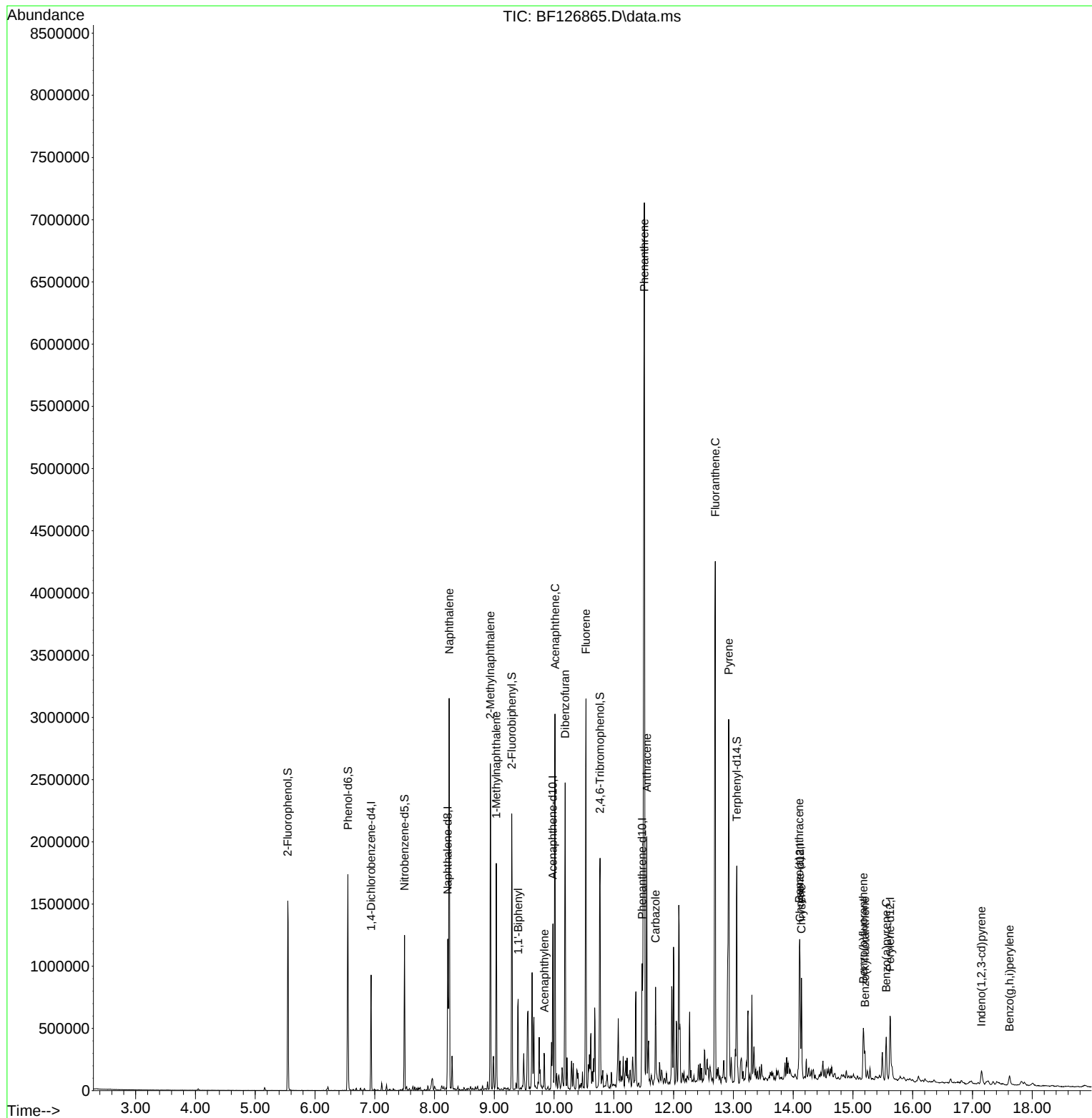
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021122\
Data File : BF126865.D
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Sample : N1436-02DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

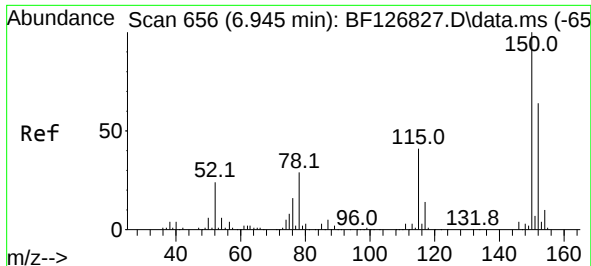
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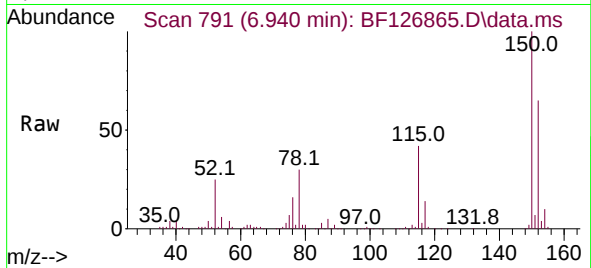
Quant Time: Feb 11 22:44:26 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 10 00:44:00 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.940 min Scan# 71
Delta R.T. -0.005 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

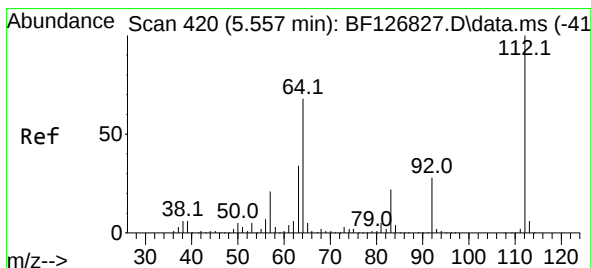
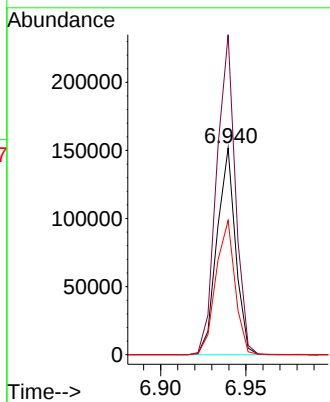
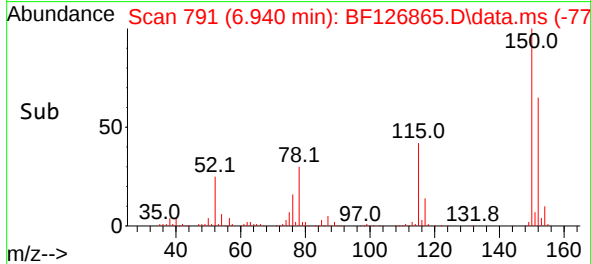
Instrument :
BNA_F
ClientSampleId :
289DL



Tgt Ion:152 Resp: 11485
Ion Ratio Lower Upper
152 100
150 154.7 124.3 186.5
115 64.9 50.5 75.7

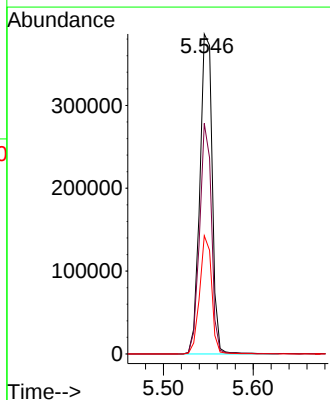
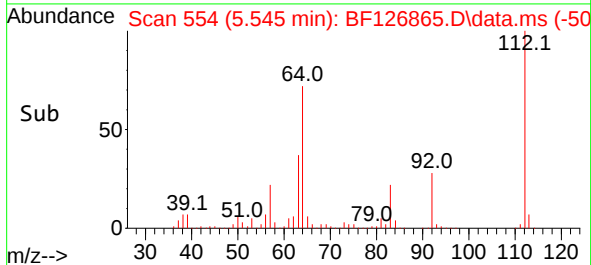
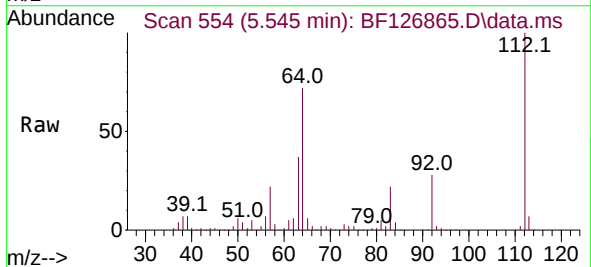
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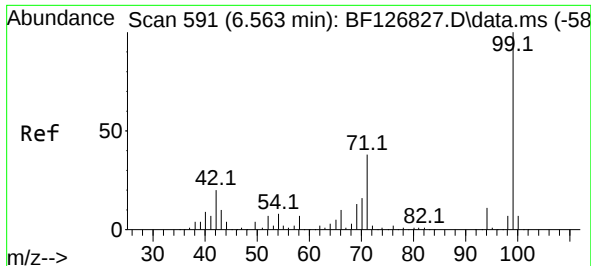
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#5
2-Fluorophenol
Concen: 49.631 ng
RT: 5.545 min Scan# 554
Delta R.T. -0.012 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Tgt Ion:112 Resp: 370233
Ion Ratio Lower Upper
112 100
64 72.0 54.3 81.5
63 37.0 27.5 41.3





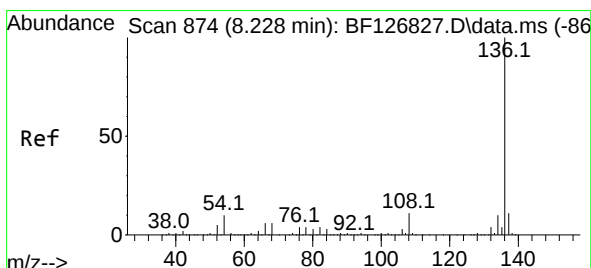
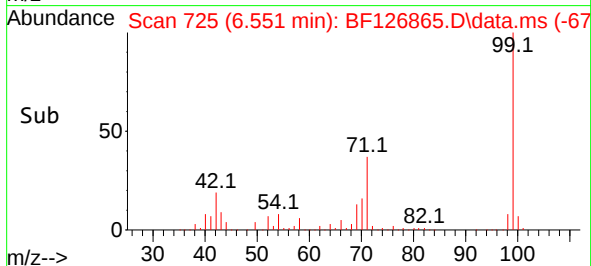
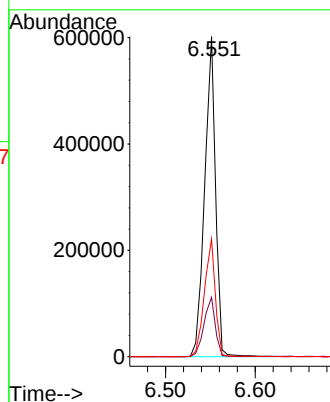
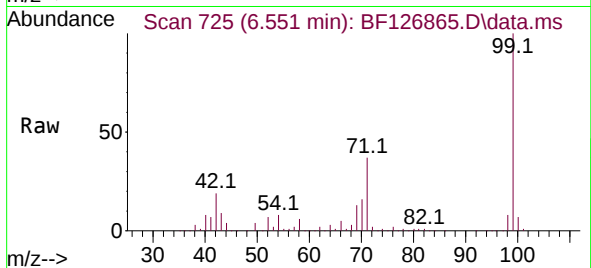
#7
Phenol-d6
Concen: 50.495 ng
RT: 6.551 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Instrument :
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Tgt Ion: 99 Resp: 508502
Ion Ratio Lower Upper
99 100
42 18.6 15.8 23.6
71 36.8 30.6 45.8

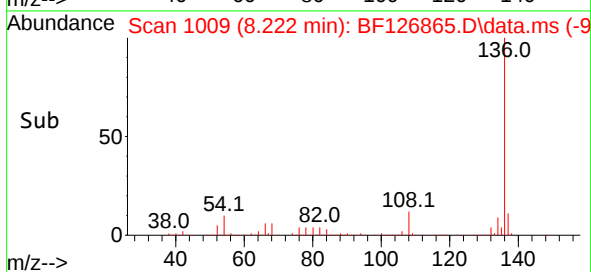
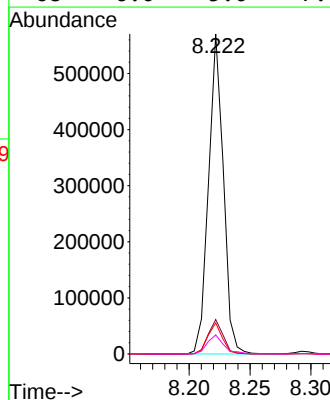
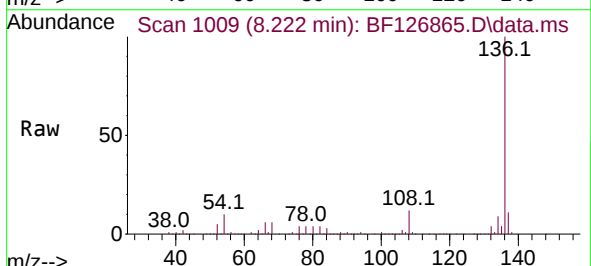
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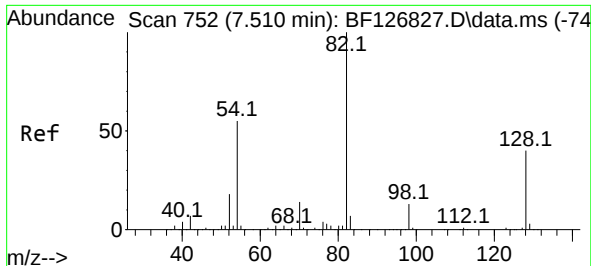
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.222 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Tgt Ion:136 Resp: 483551
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.7 8.0 12.0
68 6.0 5.0 7.6





#23

Nitrobenzene-d5

Concen: 32.838 ng

RT: 7.498 min Scan# 80

Delta R.T. -0.012 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

Instrument :

BNA_F

ClientSampleId :

289DL

Tgt Ion: 82 Resp: 344150

Ion Ratio Lower Upper

82 100

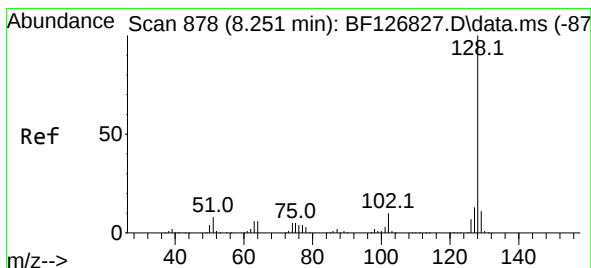
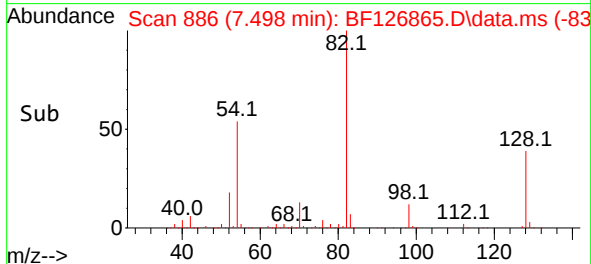
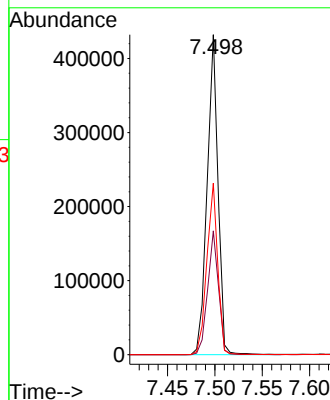
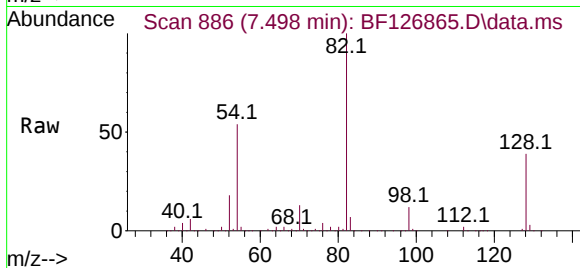
128 38.7 31.6 47.4

54 53.6 43.7 65.5

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#31

Naphthalene

Concen: 46.882 ng

RT: 8.245 min Scan# 1013

Delta R.T. -0.006 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

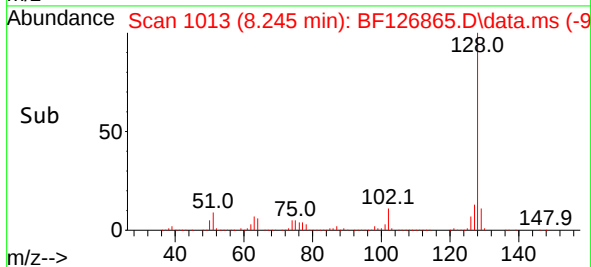
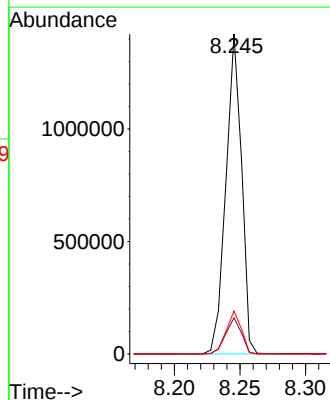
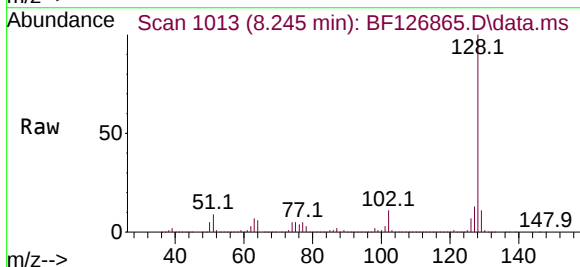
Tgt Ion:128 Resp: 1175712

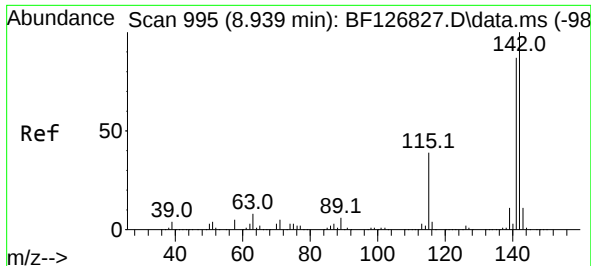
Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

127 13.4 10.6 15.8





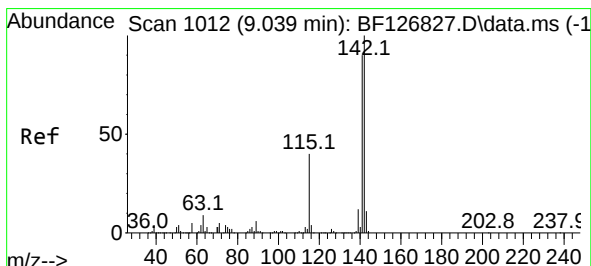
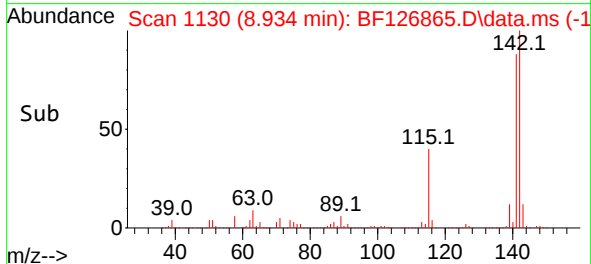
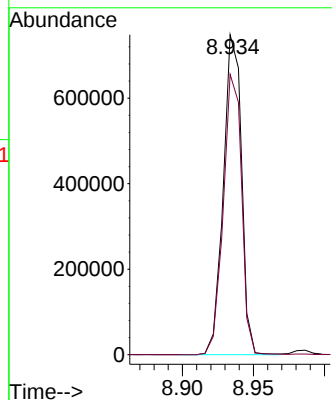
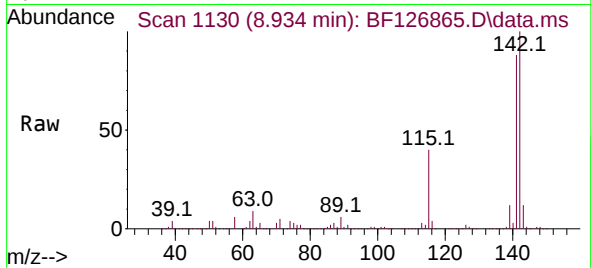
#37
2-Methylnaphthalene
Concen: 41.448 ng
RT: 8.934 min Scan# 1110
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:142 Resp: 664264
Ion Ratio Lower Upper
142 100
141 87.6 69.7 104.5

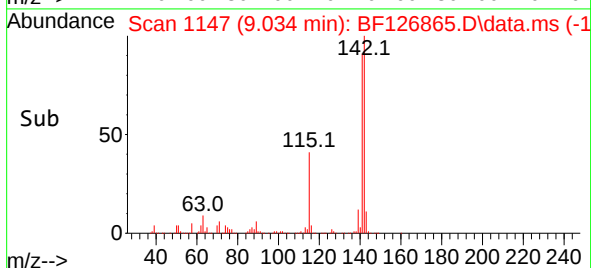
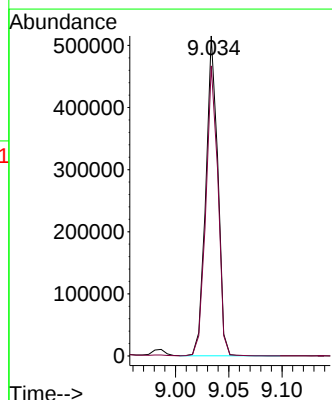
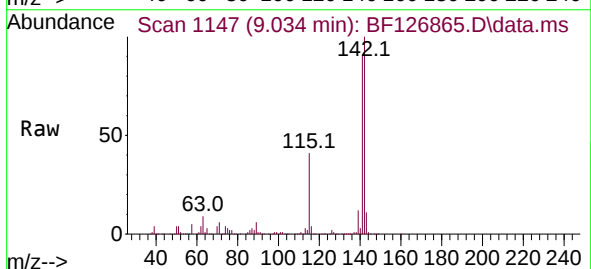
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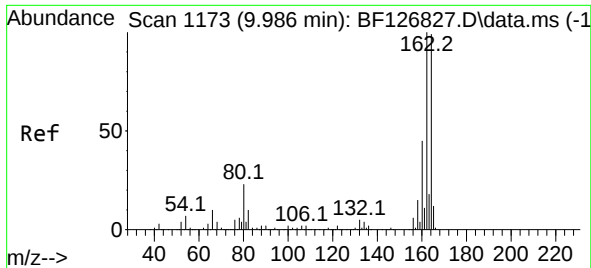
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#38
1-Methylnaphthalene
Concen: 26.126 ng
RT: 9.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

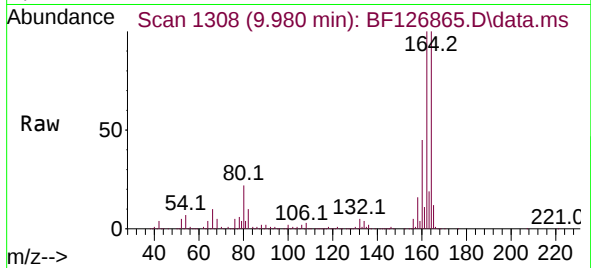
Tgt Ion:142 Resp: 405121
Ion Ratio Lower Upper
142 100
141 90.7 72.3 108.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.980 min Scan# 1173
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

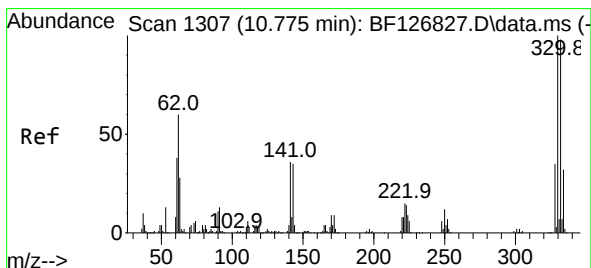
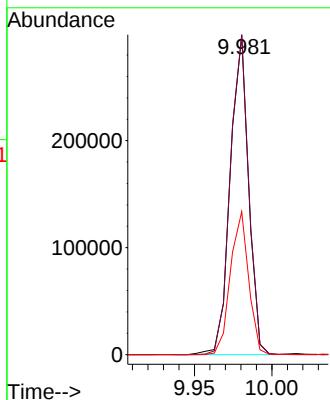
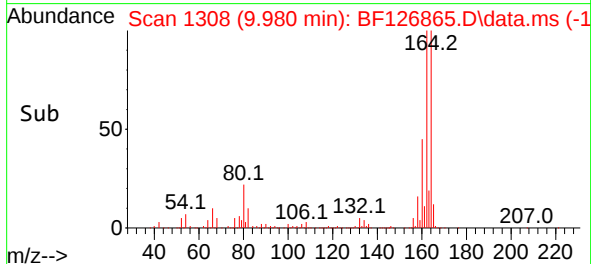
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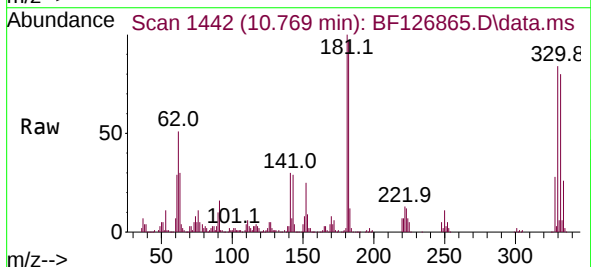
Tgt Ion:164 Resp: 24515
Ion Ratio Lower Upper
164 100
162 100.2 80.9 121.3
160 44.8 36.0 54.0

Manual Integrations
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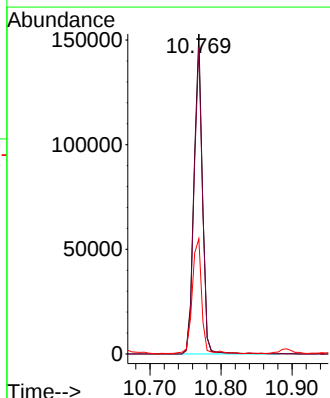
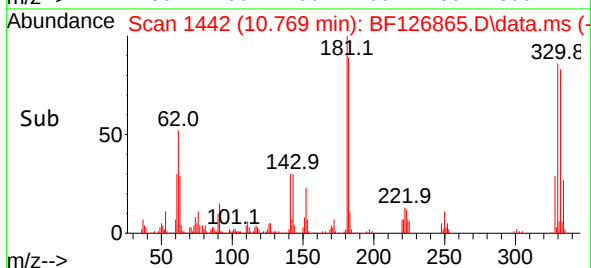
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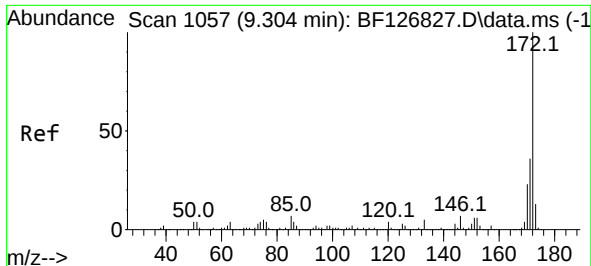


#42
2,4,6-Tribromophenol
Concen: 47.893 ng
RT: 10.769 min Scan# 1442
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



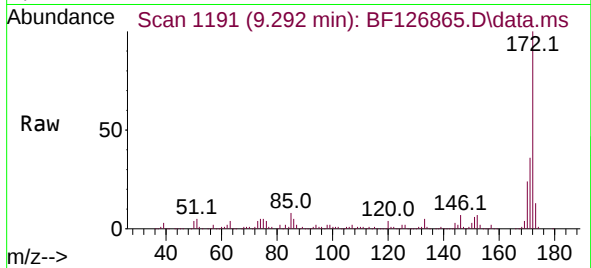
Tgt Ion:330 Resp: 125873
Ion Ratio Lower Upper
330 100
332 95.9 78.2 117.4
141 40.3 31.2 46.8





#45
2-Fluorobiphenyl
Concen: 35.204 ng
RT: 9.292 min Scan# 1119
Delta R.T. -0.012 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

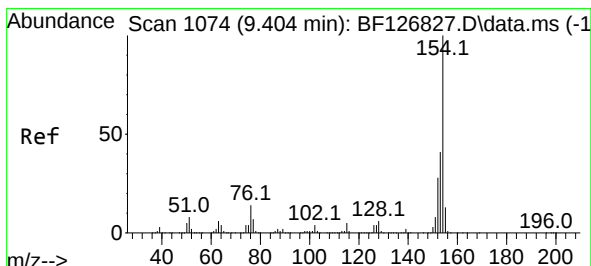
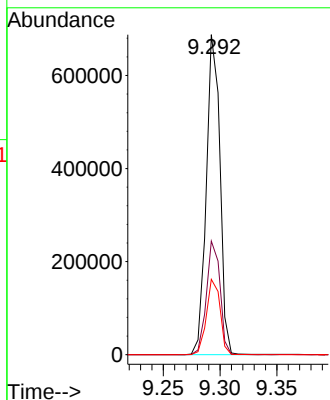
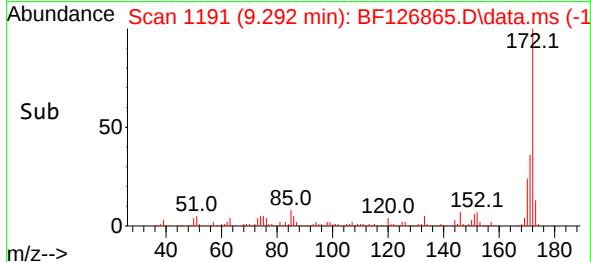
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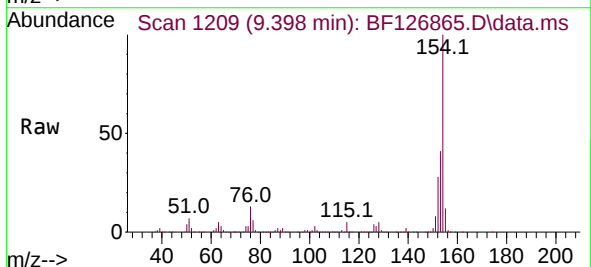
Tgt Ion:172 Resp: 57333
Ion Ratio Lower Upper
172 100
171 35.5 28.5 42.7
170 23.5 18.7 28.1

Manual Integrations
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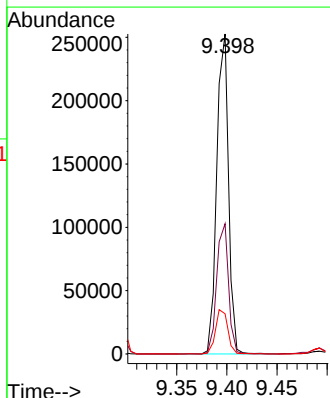
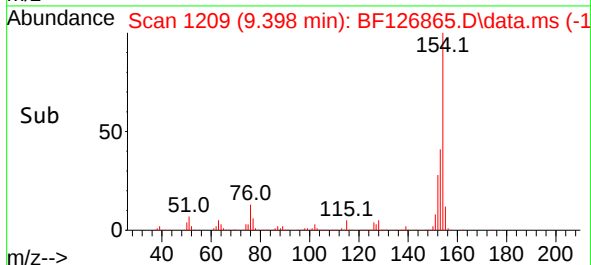
Reviewed By :Jagrut Upadhyay 02/15/2022
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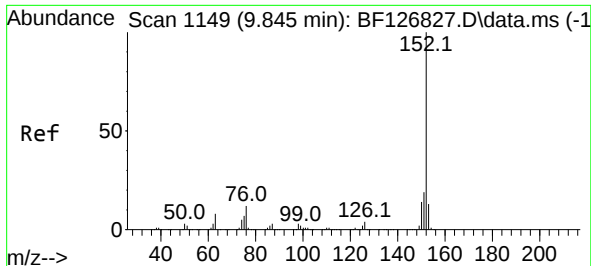


#46
1,1'-Biphenyl
Concen: 10.564 ng
RT: 9.398 min Scan# 1209
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



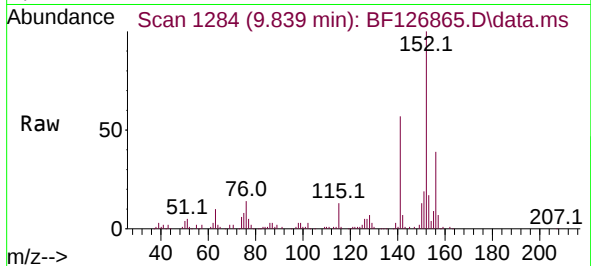
Tgt Ion:154 Resp: 205419
Ion Ratio Lower Upper
154 100
153 40.7 20.6 60.6
76 12.6 0.0 34.0





#49
Acenaphthylene
Concen: 2.091 ng
RT: 9.839 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

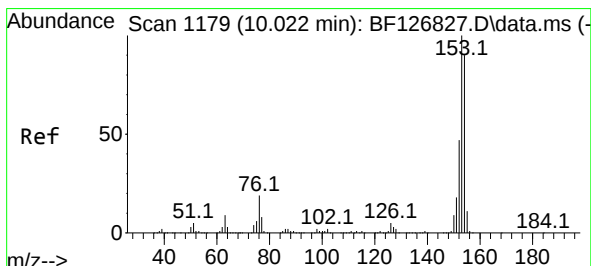
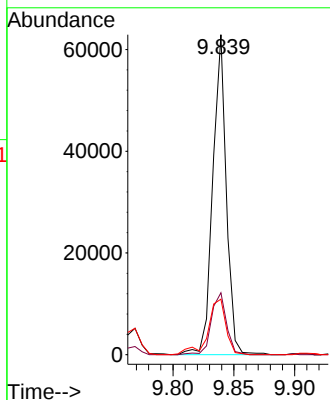
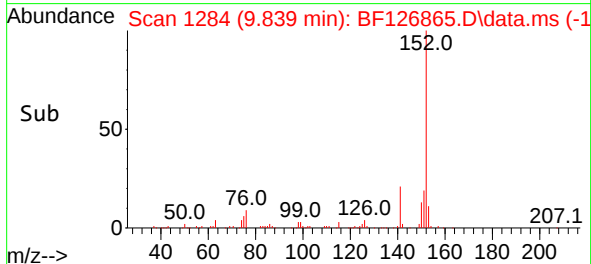
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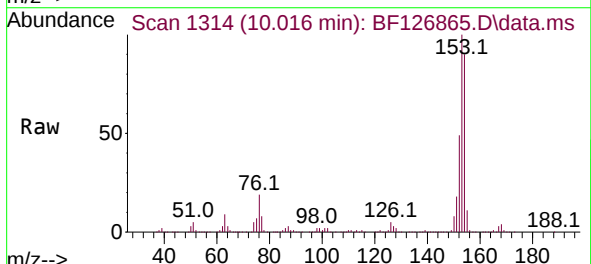
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Ion Ratio Lower Upper
152 100
151 19.3 15.5 23.3
153 17.3 10.7 16.1

Manual Integrations
APPROVED

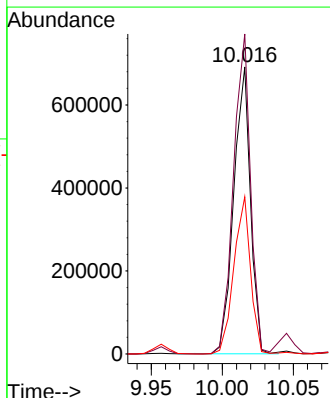
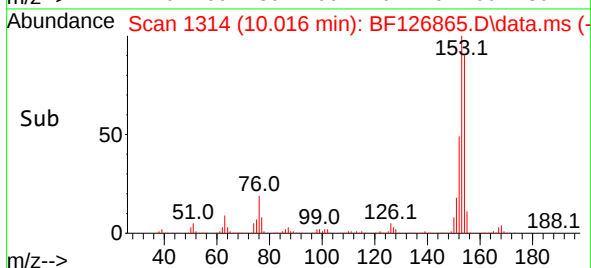
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022

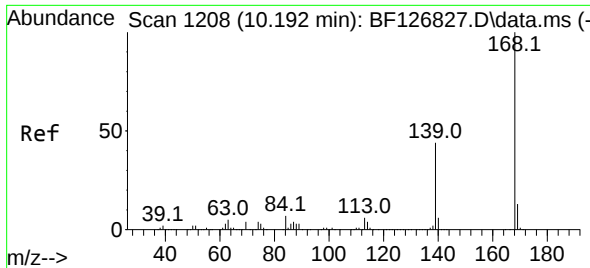


#52
Acenaphthene
Concen: 37.985 ng
RT: 10.016 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



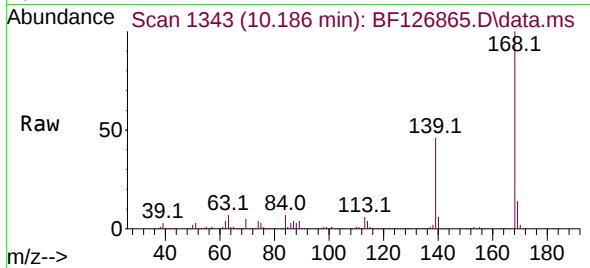
Tgt Ion:154 Resp: 568481
Ion Ratio Lower Upper
154 100
153 111.5 88.5 132.7
152 54.7 41.8 62.6





#55
Dibenzenofuran
Concen: 39.165 ng
RT: 10.186 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

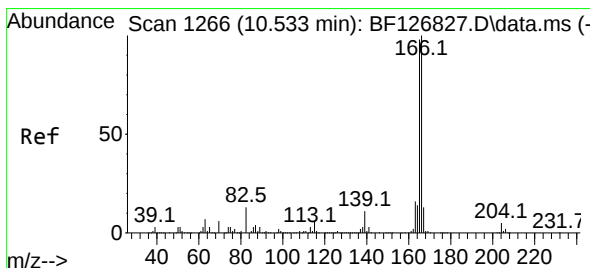
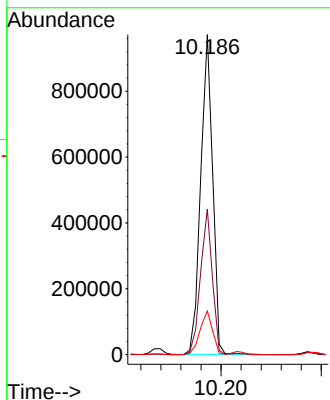
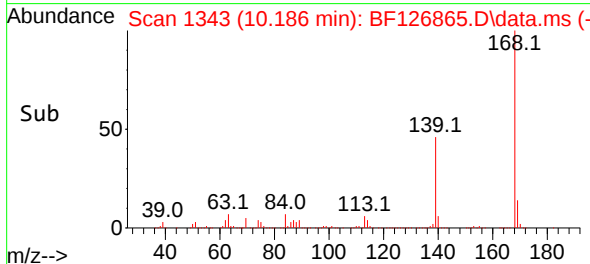
Instrument :
BNA_F
ClientSampleId :
289DL



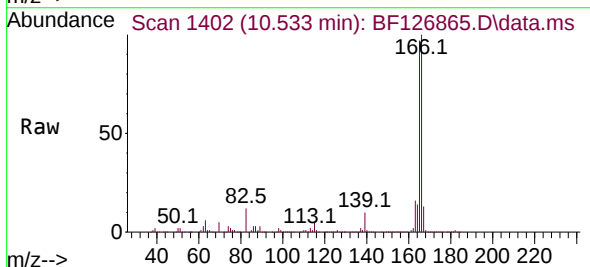
Tgt Ion:168 Resp: 80704
Ion Ratio Lower Upper
168 100
139 45.5 35.4 53.0
169 13.6 10.6 16.0

Manual Integrations
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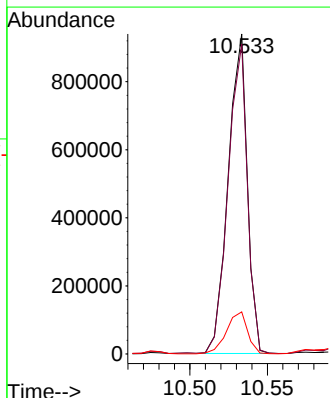
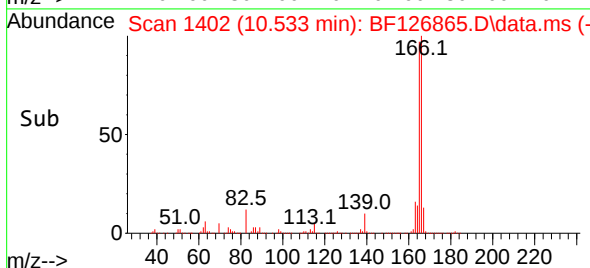
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022

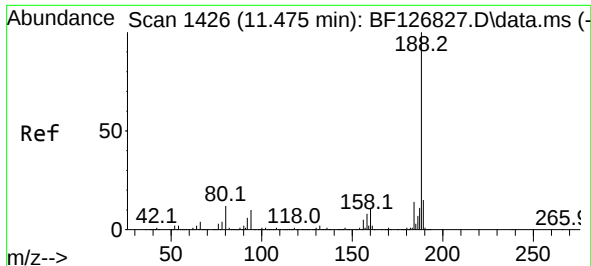


#58
Fluorene
Concen: 50.880 ng
RT: 10.533 min Scan# 1402
Delta R.T. -0.000 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



Tgt Ion:166 Resp: 804195
Ion Ratio Lower Upper
166 100
165 96.8 78.8 118.2
167 13.1 10.6 16.0





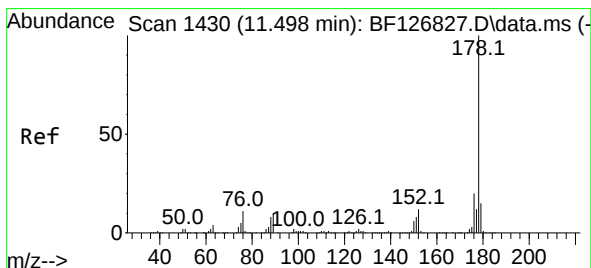
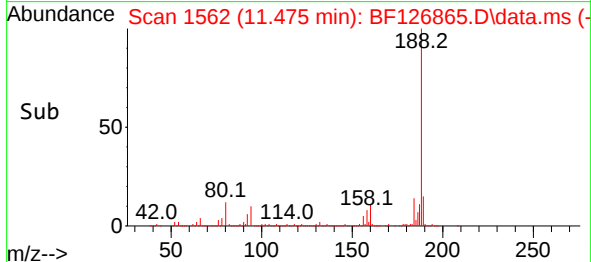
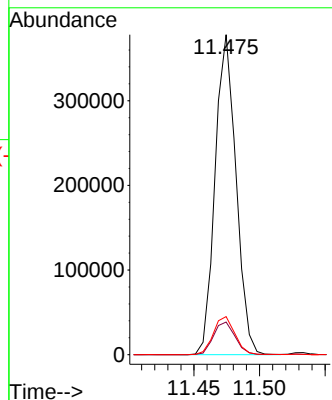
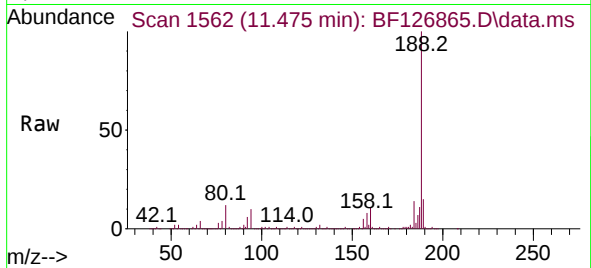
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.475 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Instrument :
BNA_F
ClientSampleId :
289DL

Tgt Ion:188 Resp: 418860
Ion Ratio Lower Upper
188 100
94 10.2 8.1 12.1
80 11.9 9.5 14.3

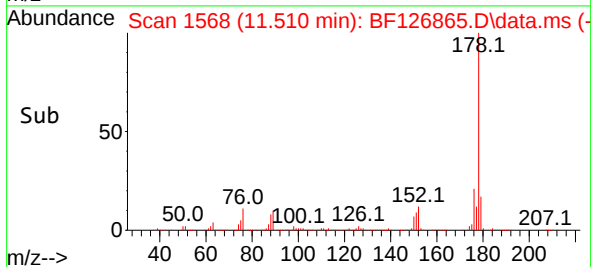
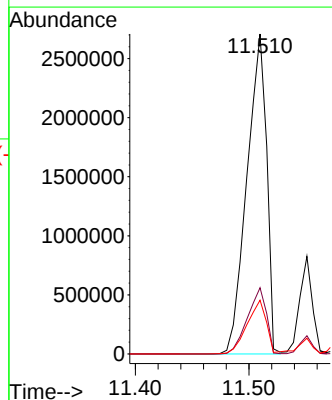
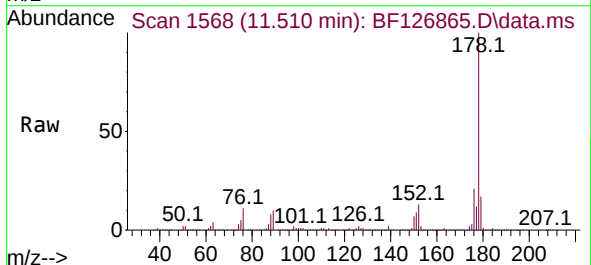
Manual Integrations
APPROVED

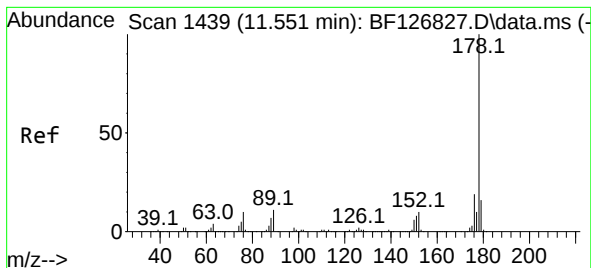
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#71
Phenanthrene
Concen: 140.344 ng
RT: 11.510 min Scan# 1568
Delta R.T. 0.012 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Tgt Ion:178 Resp: 3257190
Ion Ratio Lower Upper
178 100
176 20.7 15.7 23.5
179 16.8 12.1 18.1





#72

Anthracene

Concen: 26.549 ng

RT: 11.551 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

Instrument :

BNA_F

ClientSampleId :

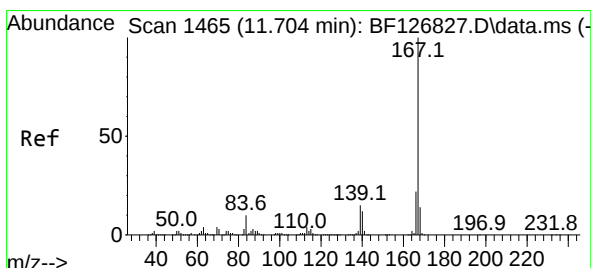
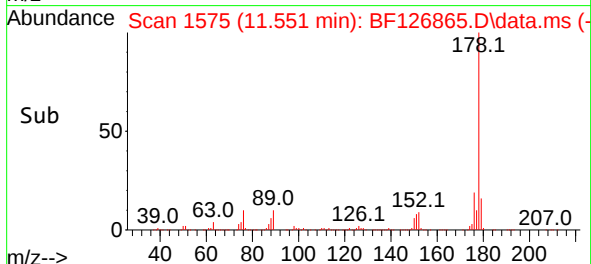
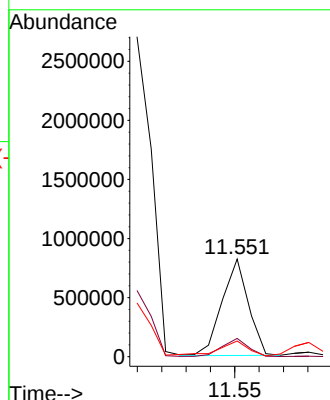
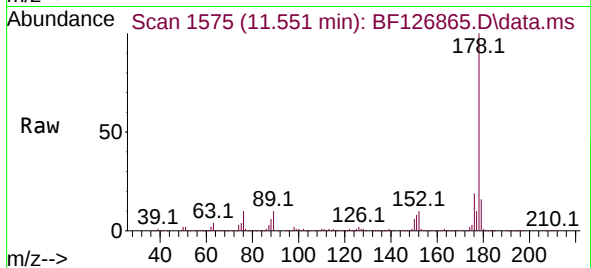
289DL

Tgt Ion:178 Resp: 61563
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.9 22.3
 179 16.0 12.5 18.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/15/2022
 Supervised By :mohammad ahmed 02/15/2022



#73

Carbazole

Concen: 11.868 ng

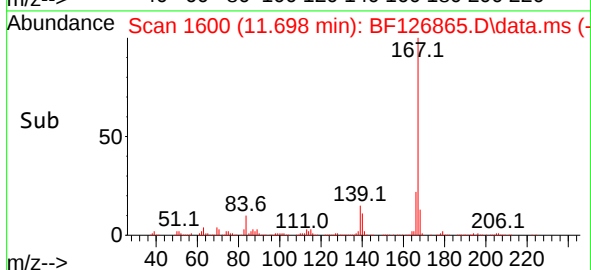
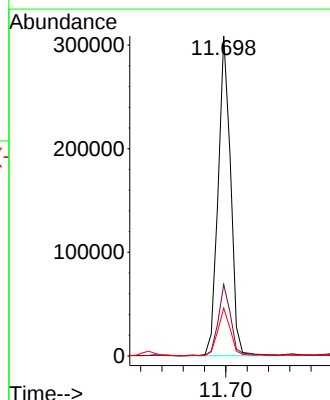
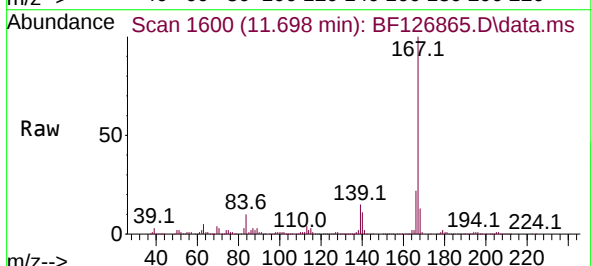
RT: 11.698 min Scan# 1600

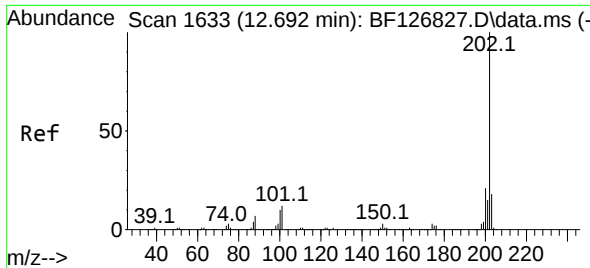
Delta R.T. -0.006 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

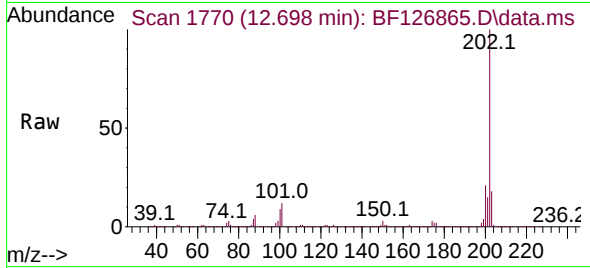
Tgt Ion:167 Resp: 250498
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.0
 139 14.9 12.2 18.4





#75
Fluoranthene
Concen: 81.190 ng
RT: 12.698 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

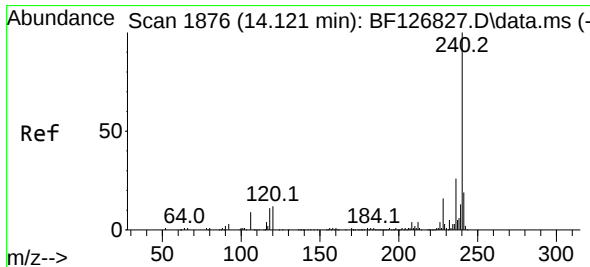
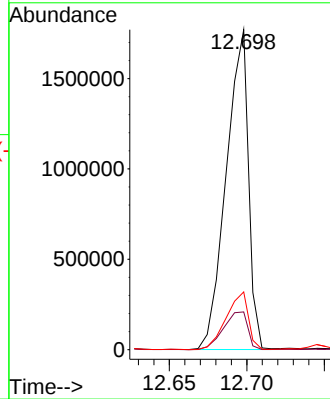
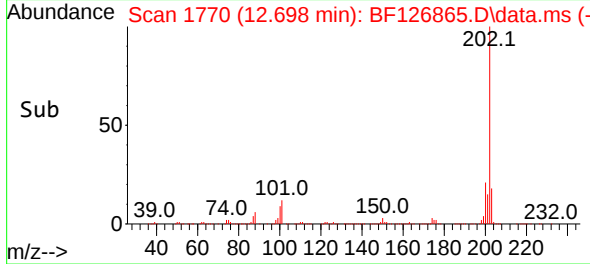
Instrument :
BNA_F
ClientSampleId :
289DL



Tgt Ion:202 Resp: 176253
Ion Ratio Lower Upper
202 100
101 11.8 0.0 32.5
203 18.0 0.0 37.7

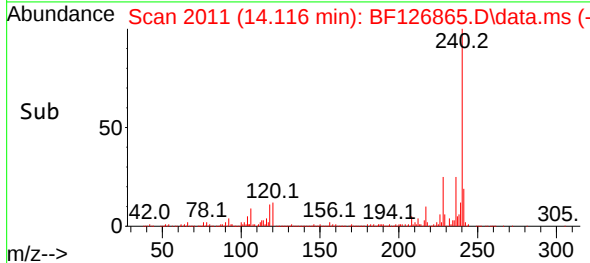
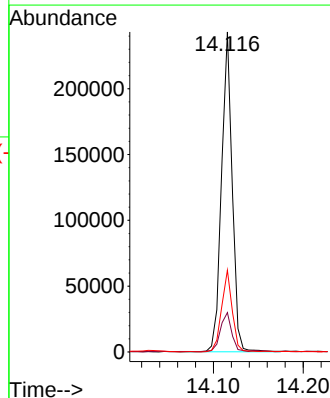
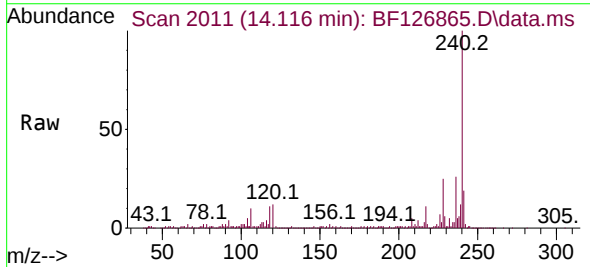
Manual Integrations
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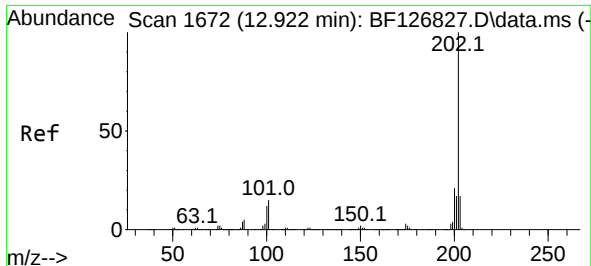
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.116 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Tgt Ion:240 Resp: 200722
Ion Ratio Lower Upper
240 100
120 12.3 9.8 14.6
236 25.5 20.5 30.7





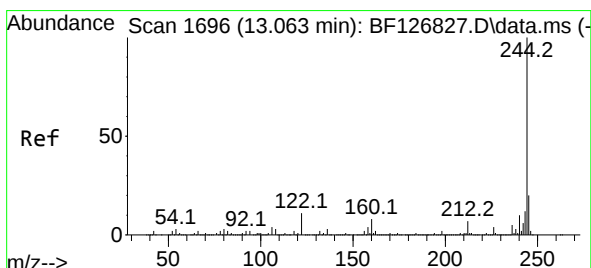
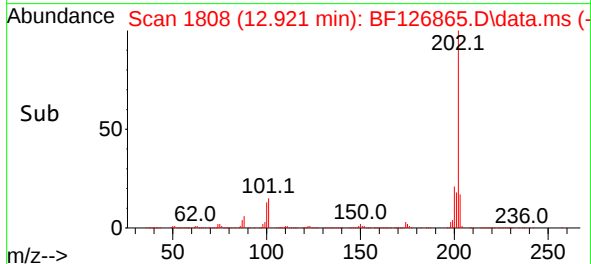
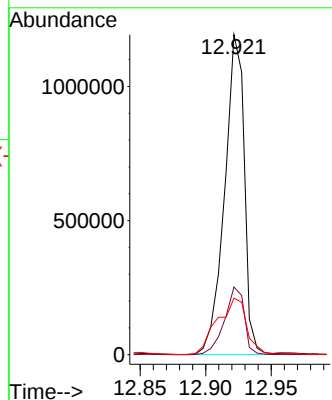
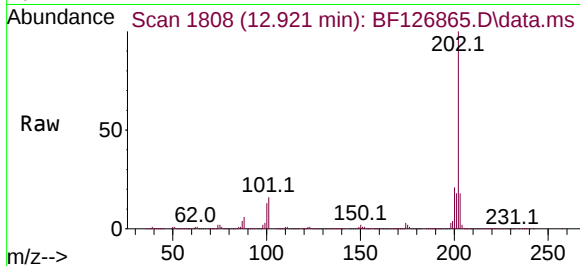
#78
Pyrene
Concen: 68.214 ng
RT: 12.921 min Scan# 1808
Delta R.T. -0.000 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Instrument :
BNA_F
ClientSampleId :
289DL

Tgt Ion:202 Resp: 124272
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.7 13.9 20.9

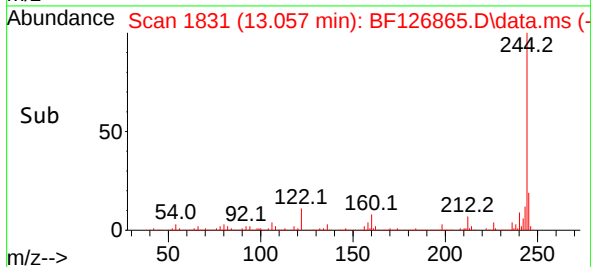
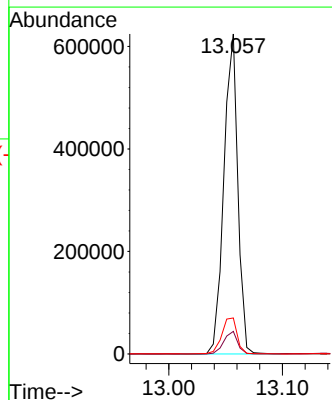
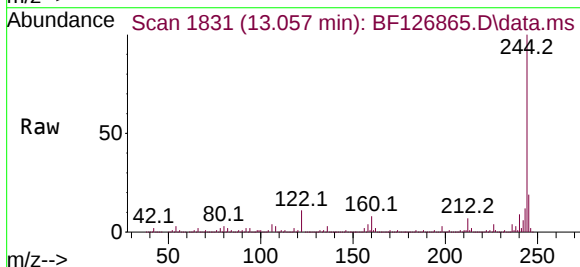
Manual Integrations
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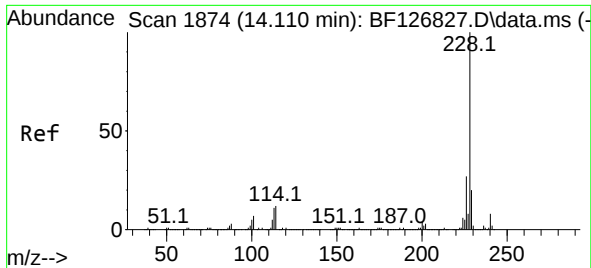
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#79
Terphenyl-d14
Concen: 38.057 ng
RT: 13.057 min Scan# 1831
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

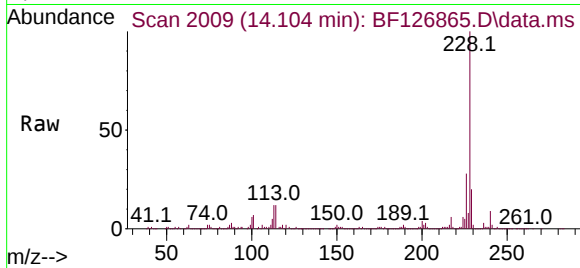
Tgt Ion:244 Resp: 532853
Ion Ratio Lower Upper
244 100
212 7.1 5.6 8.4
122 11.2 9.0 13.6





#81
Benzo(a)anthracene
Concen: 24.357 ng
RT: 14.104 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

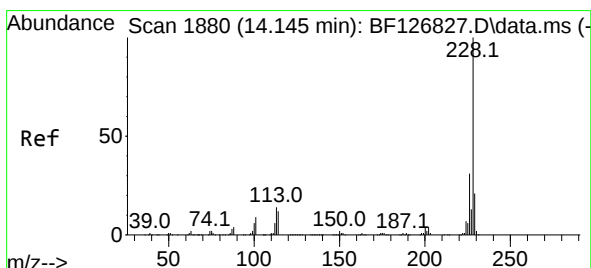
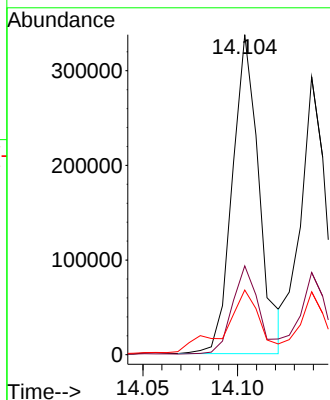
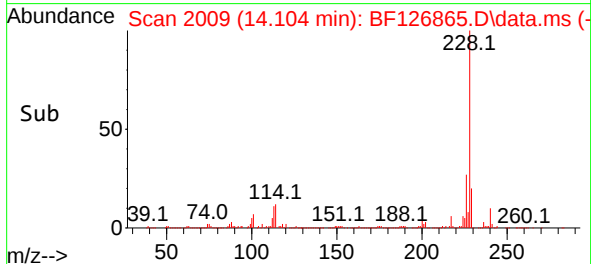
Instrument :
BNA_F
ClientSampleId :
289DL



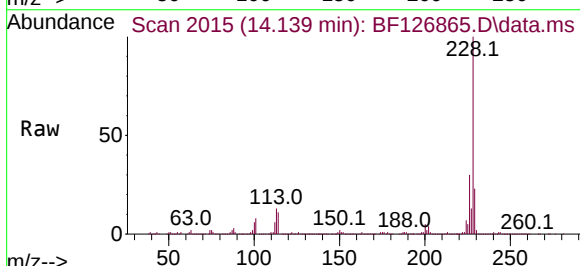
Tgt Ion:228 Resp: 331197
Ion Ratio Lower Upper
228 100
226 27.8 21.4 32.2
229 20.2 16.0 24.0

Manual Integrations
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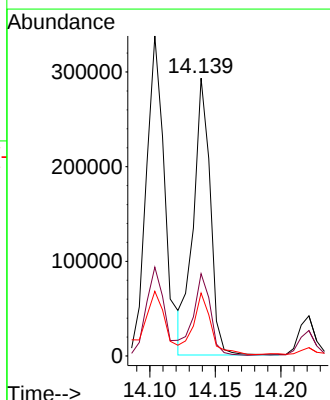
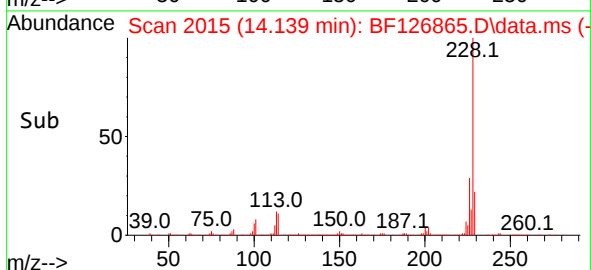
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022

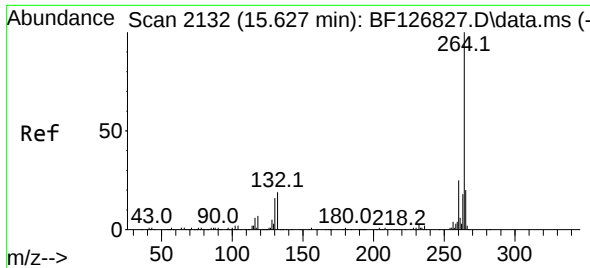


#83
Chrysene
Concen: 20.674 ng
RT: 14.139 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



Tgt Ion:228 Resp: 263971
Ion Ratio Lower Upper
228 100
226 29.6 24.4 36.6
229 22.7 16.4 24.6





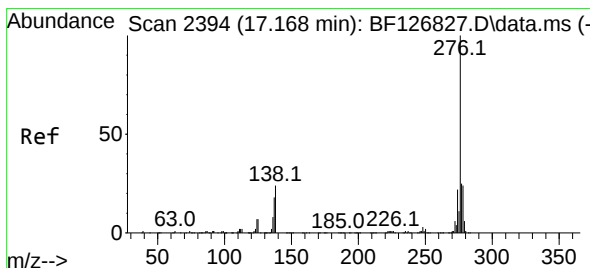
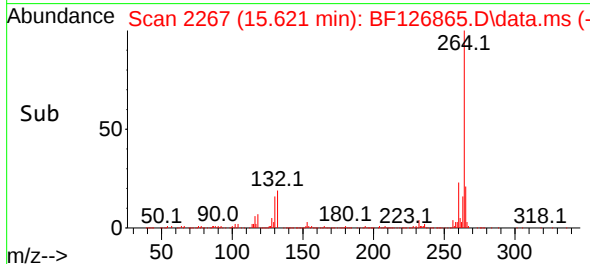
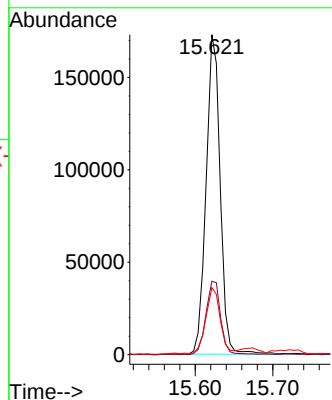
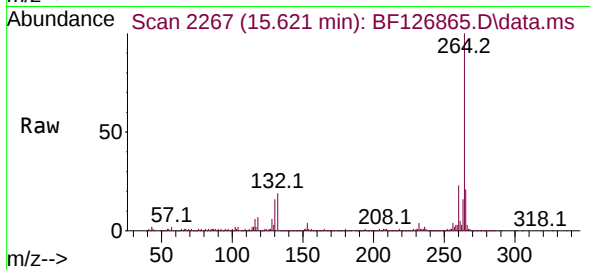
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.621 min Scan# 2132
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

Instrument :
BNA_F
ClientSampleId :
289DL

Tgt Ion:264 Resp: 218154
Ion Ratio Lower Upper
264 100
260 22.9 19.6 29.4
265 21.0 15.9 23.9

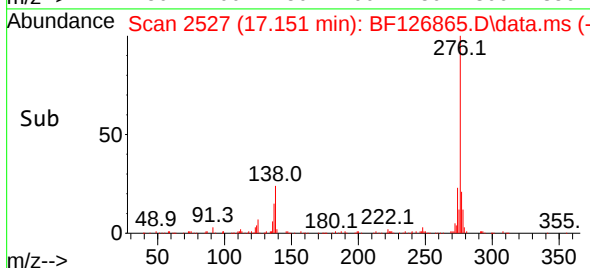
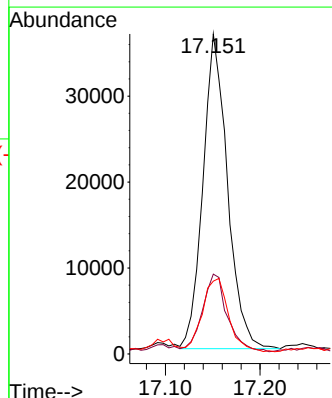
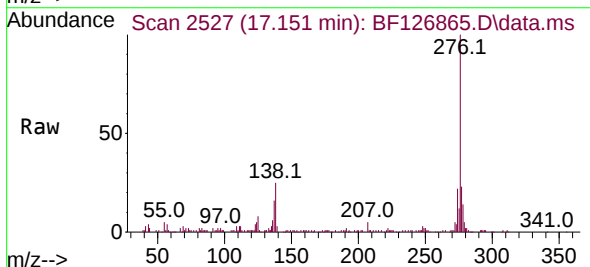
Manual Integrations
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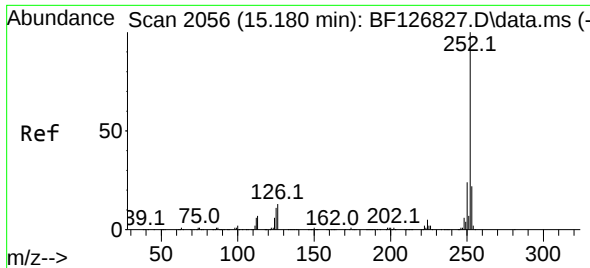
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.245 ng
RT: 17.151 min Scan# 2527
Delta R.T. -0.018 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

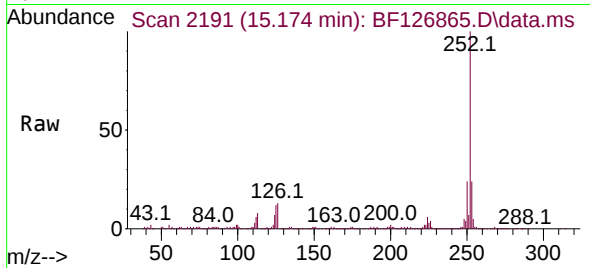
Tgt Ion:276 Resp: 66026
Ion Ratio Lower Upper
276 100
138 25.0 22.6 33.8
277 24.8 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 16.539 ng m
RT: 15.174 min Scan# 2191
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56

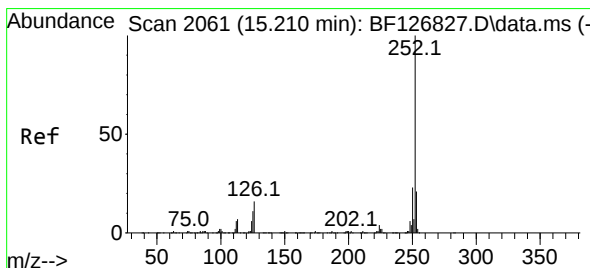
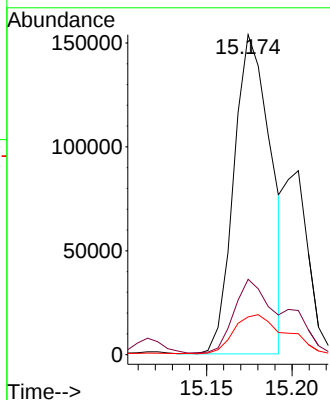
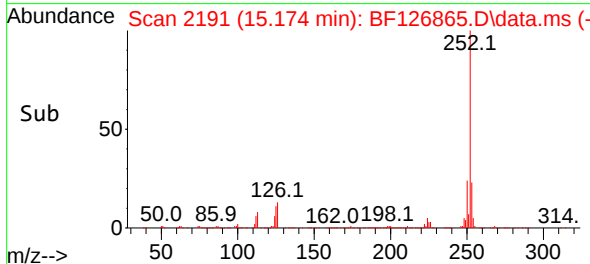
Instrument :
BNA_F
ClientSampleId :
289DL



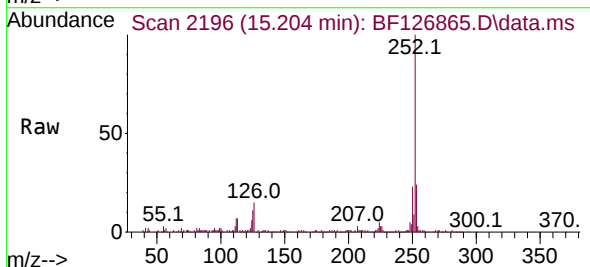
Tgt Ion:252 Resp: 230484
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.2
125 11.8 8.9 13.3

Manual Integrations
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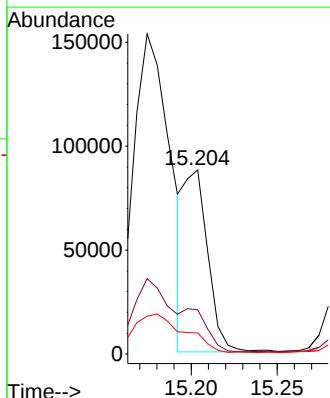
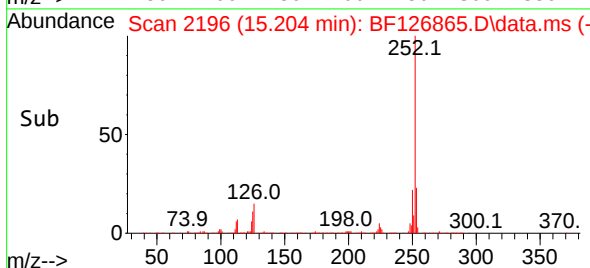
Reviewed By :Jagrut Upadhyay 02/15/2022
Supervised By :mohammad ahmed 02/15/2022

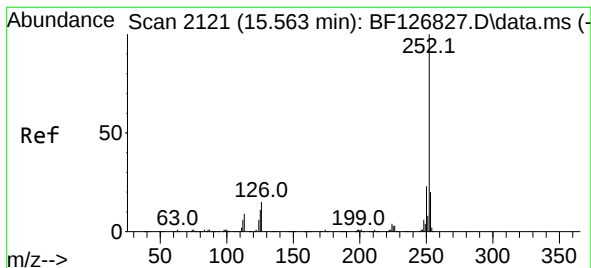


#89
Benzo(k)fluoranthene
Concen: 5.838 ng m
RT: 15.204 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF126865.D
Acq: 11 Feb 2022 18:56



Tgt Ion:252 Resp: 83993
Ion Ratio Lower Upper
252 100
253 24.0 17.1 25.7
125 11.4 8.8 13.2





#90

Benzo(a)pyrene

Concen: 13.873 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

Instrument :

BNA_F

ClientSampleId :

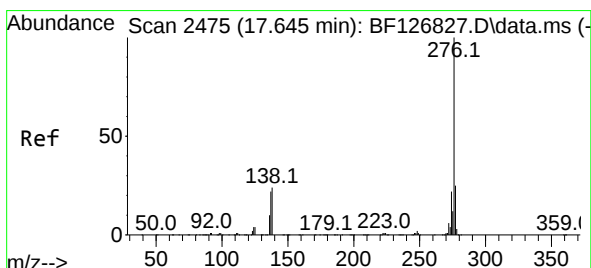
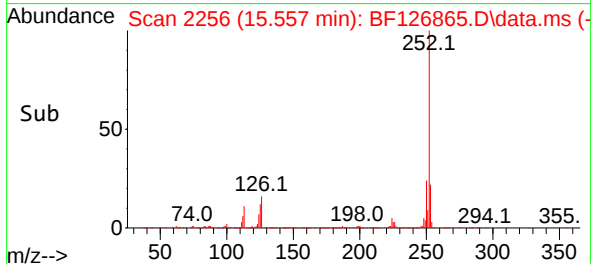
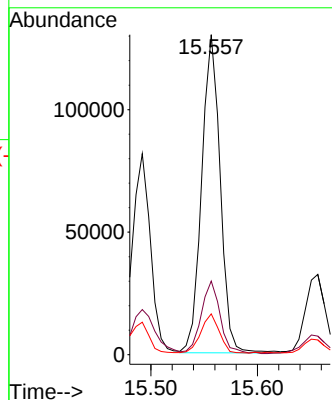
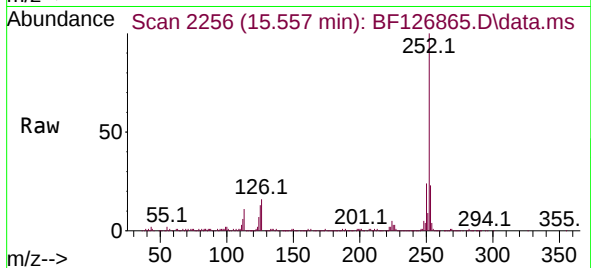
289DL

Tgt Ion:252 Resp: 157750
 Ion Ratio Lower Upper
 252 100
 253 23.0 16.4 24.6
 125 12.7 9.1 13.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/15/2022
 Supervised By :mohammad ahmed 02/15/2022



#92

Benzo(g,h,i)perylene

Concen: 4.408 ng

RT: 17.621 min Scan# 2607

Delta R.T. -0.024 min

Lab File: BF126865.D

Acq: 11 Feb 2022 18:56

Tgt Ion:276 Resp: 56651
 Ion Ratio Lower Upper
 276 100
 277 23.1 19.8 29.8
 138 24.5 19.6 29.4

