

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102623\
 Data File : BF135971.D
 Acq On : 26 Oct 2023 19:20
 Operator : CG\JU
 Sample : 04693-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023

Quant Time: Oct 27 01:19:27 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 03:58:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	172007	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	662720	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	290408	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	429569	20.000	ng	0.00
76) Chrysene-d12	14.015	240	337057	20.000	ng	0.00
86) Perylene-d12	15.498	264	273343	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	1002232	89.974	ng	0.00
7) Phenol-d6	6.451	99	1216884	87.749	ng	0.00
23) Nitrobenzene-d5	7.386	82	627112	63.858	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	222612	87.576	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	963483	53.124	ng	0.00
79) Terphenyl-d14	12.951	244	649846	32.213	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	184484	5.758	ng	97
37) 2-Methylnaphthalene	8.816	142	73161	3.451	ng	99
38) 1-Methylnaphthalene	8.916	142	59135	2.985	ng	96
52) Acenaphthene	9.892	154	151529	9.208	ng	98
55) Dibenzofuran	10.063	168	116751	4.911	ng	97
58) Fluorene	10.410	166	212346	11.939	ng	100
71) Phenanthrene	11.386	178	2040100	93.871	ng	99
72) Anthracene	11.427	178	642658	28.880	ng	99
73) Carbazole	11.580	167	187765	9.459	ng	99
75) Fluoranthene	12.580	202	2088412	91.340	ng	98
78) Pyrene	12.810	202	2093655	73.979	ng	99
81) Benzo(a)anthracene	14.004	228	1184170	51.670	ng	98
83) Chrysene	14.039	228	1093867	49.006	ng	97
87) Indeno(1,2,3-cd)pyrene	16.998	276	315747	20.371	ng	94
88) Benzo(b)fluoranthene	15.062	252	938475m	57.691	ng	
89) Benzo(k)fluoranthene	15.086	252	295310m	18.484	ng	
90) Benzo(a)pyrene	15.433	252	675658	45.066	ng	98
91) Dibenzo(a,h)anthracene	17.015	278	82402	6.215	ng	94
92) Benzo(g,h,i)perylene	17.456	276	285396	21.209	ng	98

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

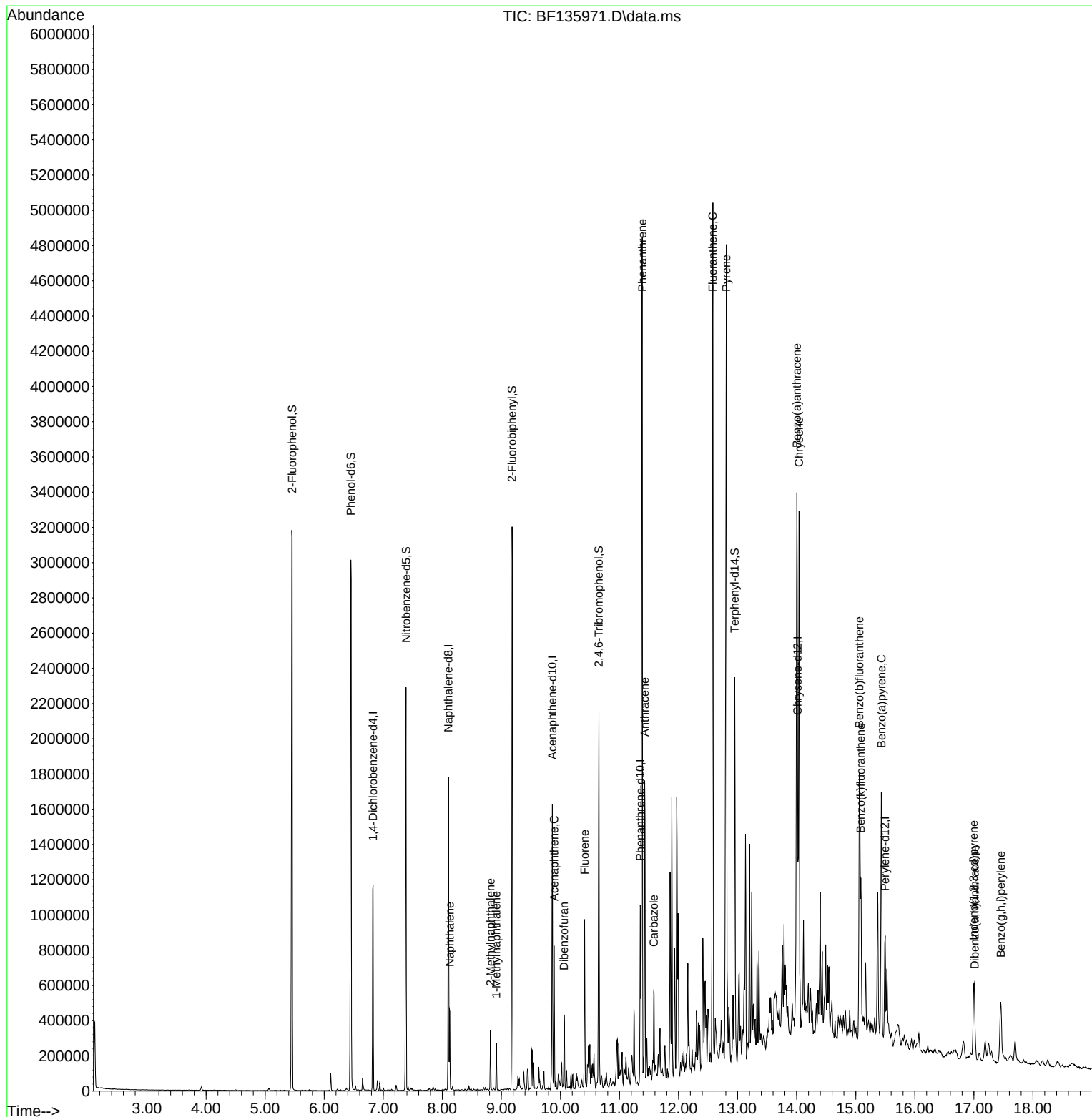
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102623\
Data File : BF135971.D
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Sample : 04693-03
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ALS Vial : 15 Sample Multiplier: 1

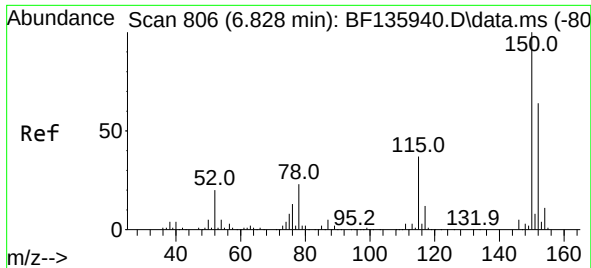
Instrument :
BNA_F
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Quant Time: Oct 27 01:19:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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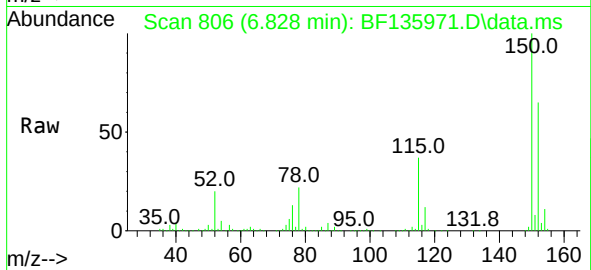
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

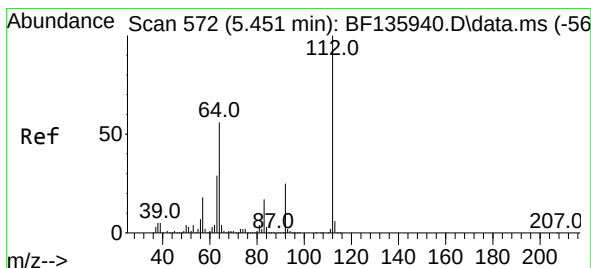
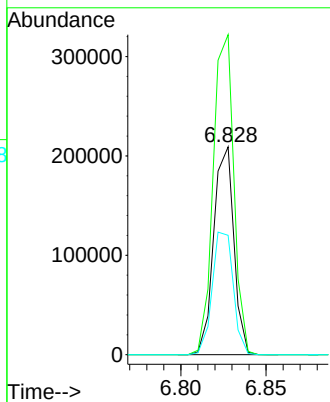
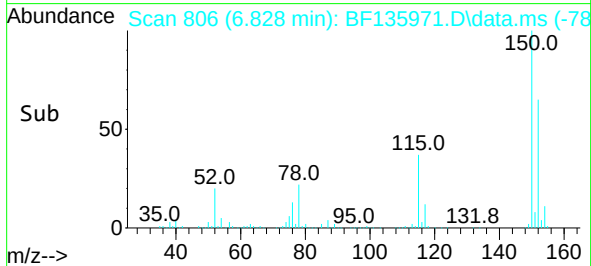
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)



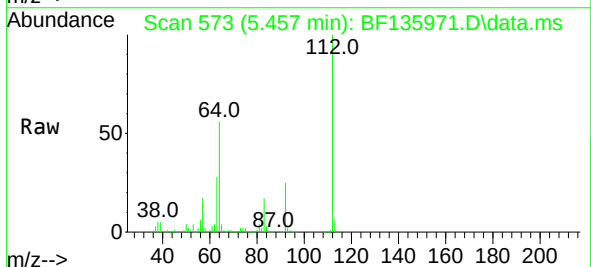
Tgt Ion:152 Resp: 17200
Ion Ratio Lower Upper
152 100
150 153.9 124.6 186.8
115 57.4 46.6 69.8

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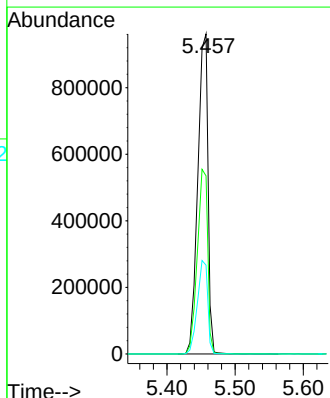
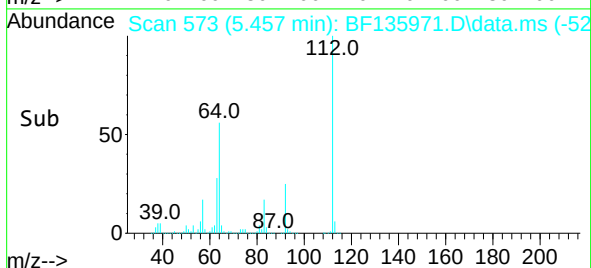
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

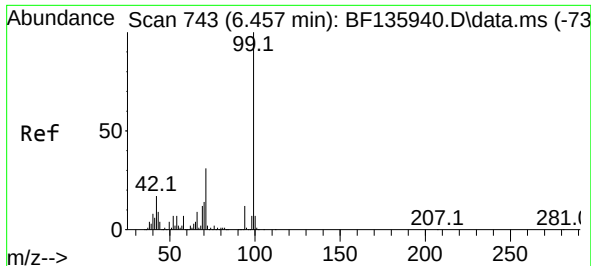


#5
2-Fluorophenol
Concen: 89.974 ng
RT: 5.457 min Scan# 573
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20



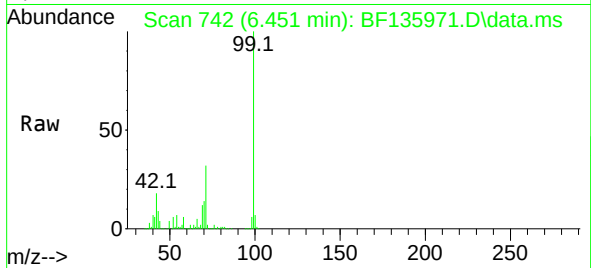
Tgt Ion:112 Resp: 1002232
Ion Ratio Lower Upper
112 100
64 55.7 45.1 67.7
63 27.8 23.0 34.4





#7
Phenol-d6
Concen: 87.749 ng
RT: 6.451 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

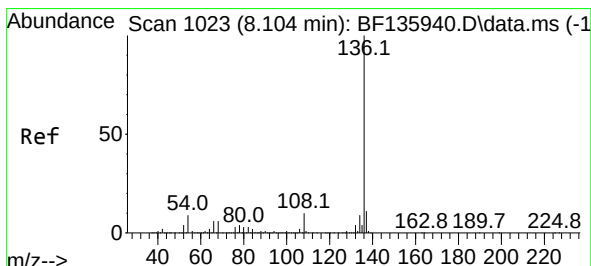
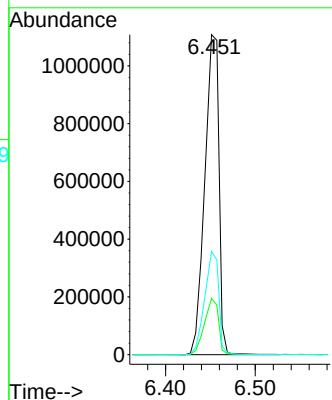
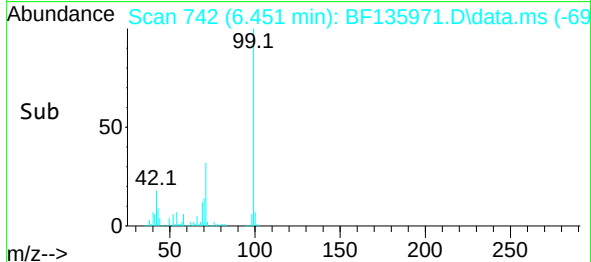
Instrument :
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ClientSampleId :
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Tgt Ion: 99 Resp: 1216884
Ion Ratio Lower Upper
99 100
42 17.6 13.8 20.8
71 32.2 25.1 37.7

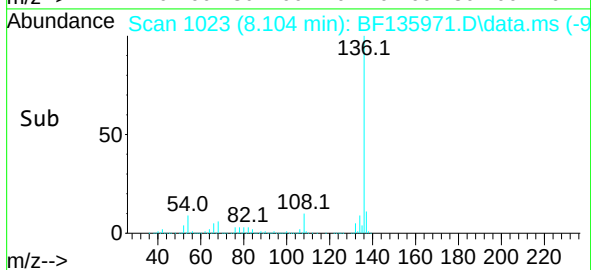
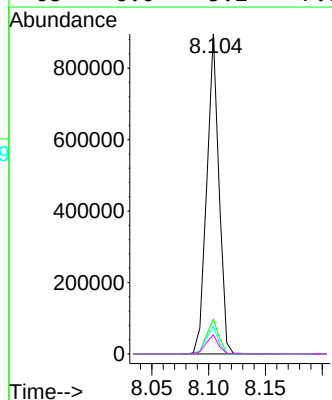
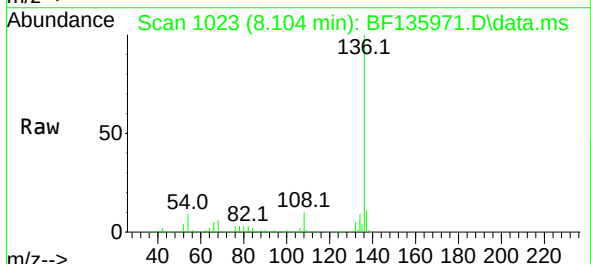
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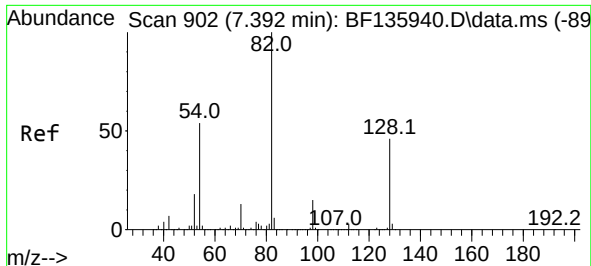
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

Tgt Ion:136 Resp: 662720
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 8.6 7.1 10.7
68 6.0 5.2 7.8





#23

Nitrobenzene-d5

Concen: 63.858 ng

RT: 7.386 min Scan# 902

Delta R.T. -0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)

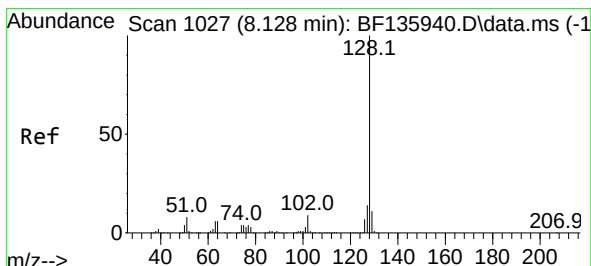
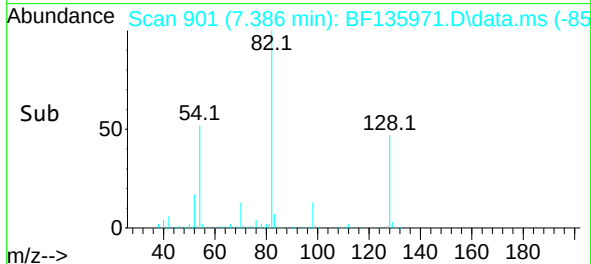
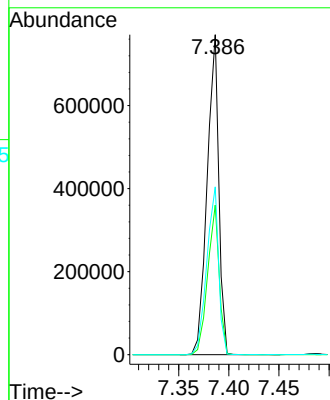
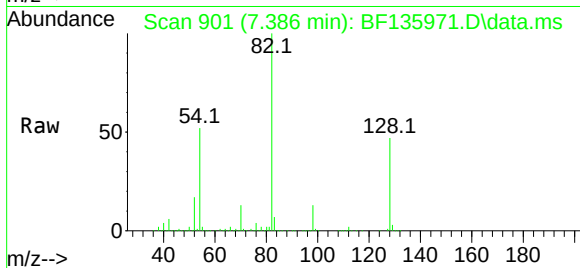
Tgt Ion: 82 Resp: 627112
 Ion Ratio Lower Upper
 82 100
 128 46.7 36.8 55.2
 54 52.4 43.4 65.0

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Supervised By :mohammad ahmed 10/27/2023



#31

Naphthalene

Concen: 5.758 ng

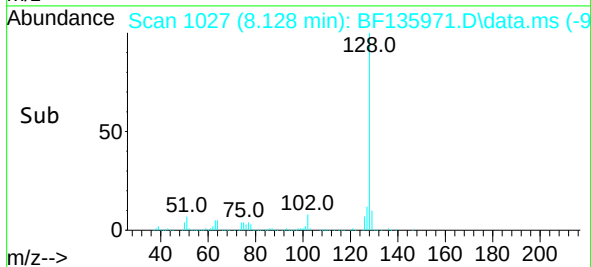
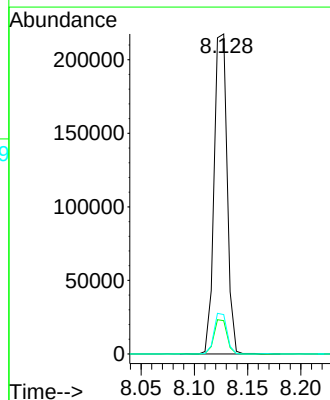
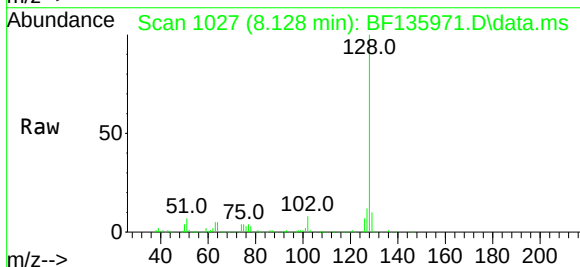
RT: 8.128 min Scan# 1027

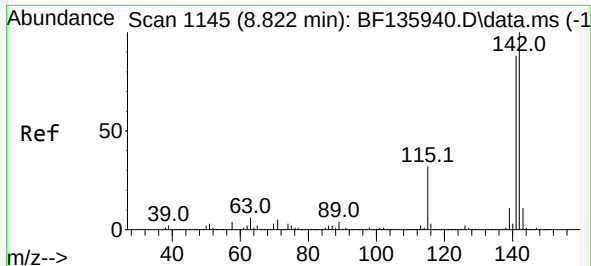
Delta R.T. 0.000 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Tgt Ion:128 Resp: 184484
 Ion Ratio Lower Upper
 128 100
 129 10.4 9.0 13.6
 127 12.3 10.9 16.3





#37

2-Methylnaphthalene

Concen: 3.451 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:142 Resp: 7316

Ion Ratio Lower Upper

142 100

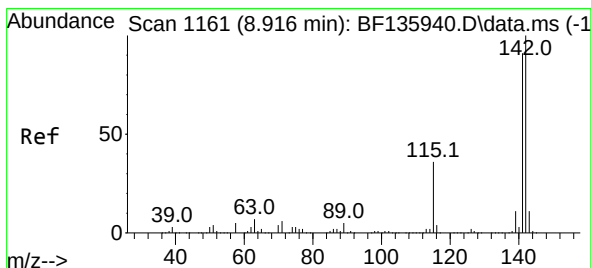
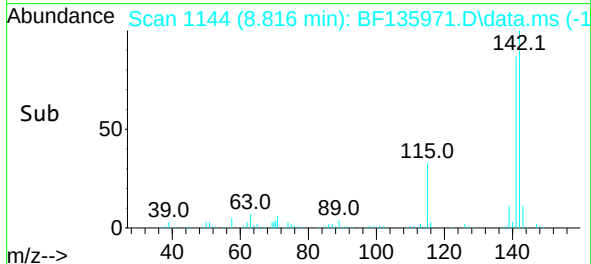
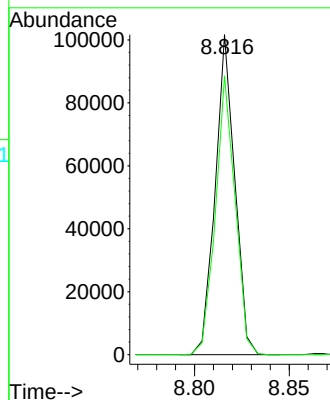
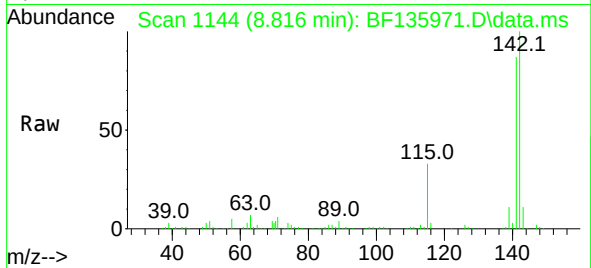
141 87.2 70.4 105.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#38

1-Methylnaphthalene

Concen: 2.985 ng

RT: 8.916 min Scan# 1161

Delta R.T. 0.000 min

Lab File: BF135971.D

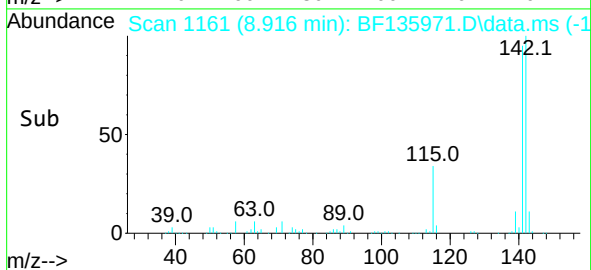
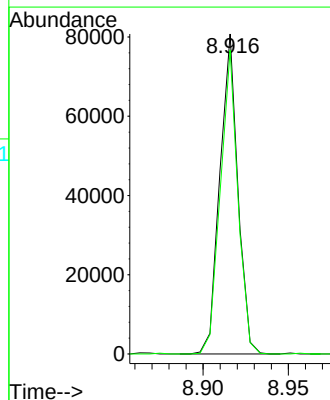
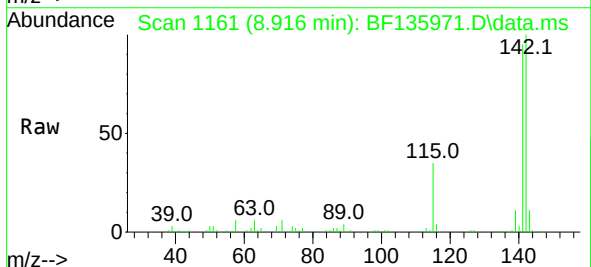
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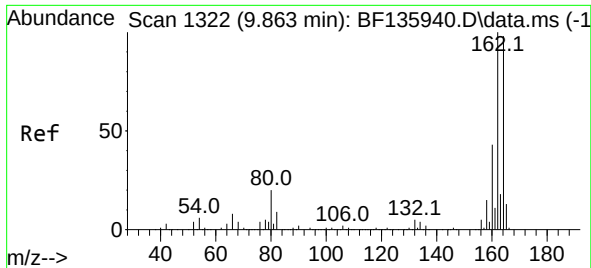
Tgt Ion:142 Resp: 59135

Ion Ratio Lower Upper

142 100

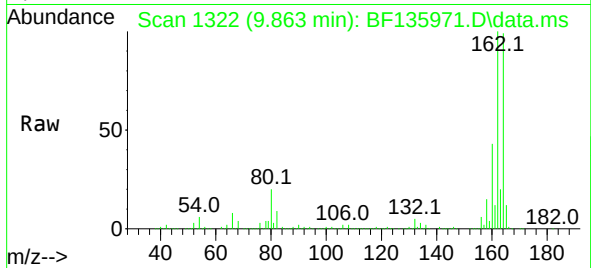
141 95.0 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

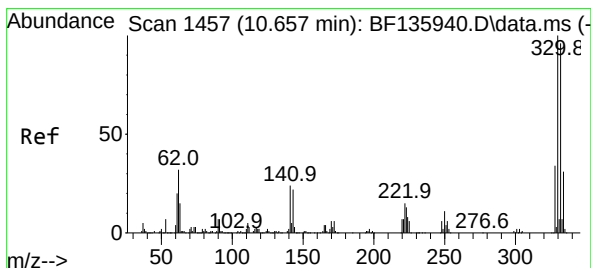
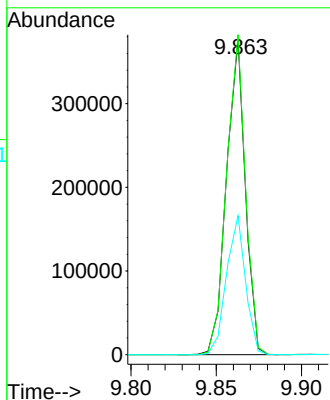
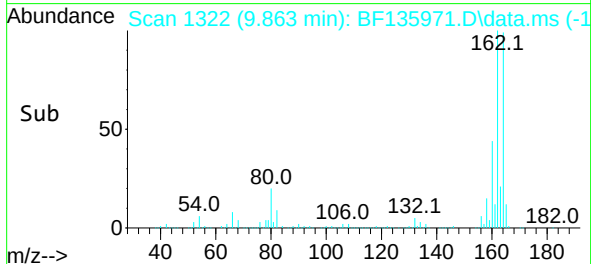
Instrument :
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ClientSampleId :
S-2(10-15)



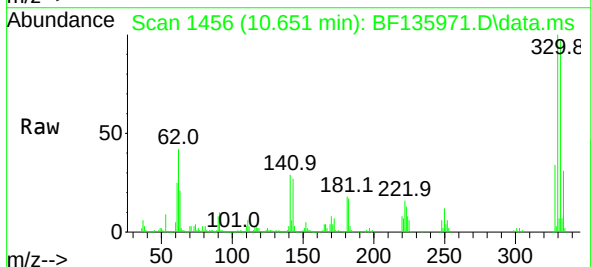
Tgt Ion:164 Resp: 290408
Ion Ratio Lower Upper
164 100
162 101.3 82.0 123.0
160 44.0 35.6 53.4

Manual Integrations
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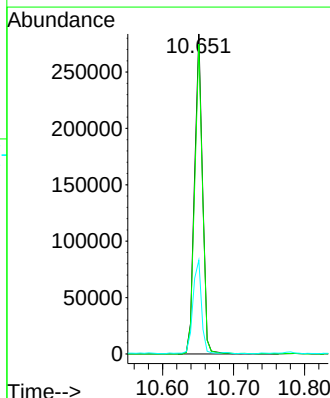
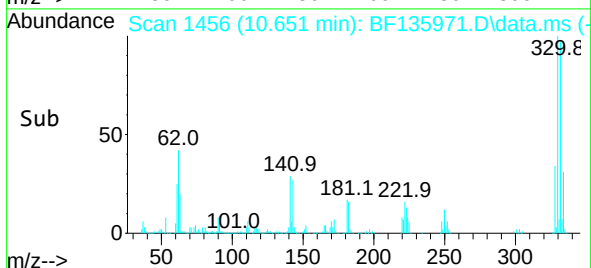
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

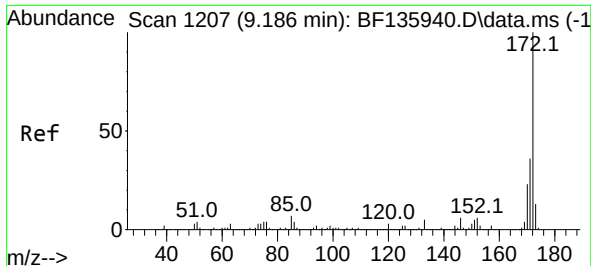


#42
2,4,6-Tribromophenol
Concen: 87.576 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20



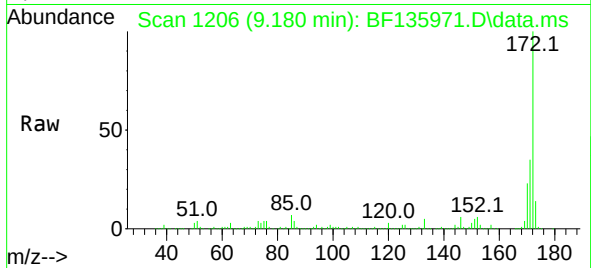
Tgt Ion:330 Resp: 222612
Ion Ratio Lower Upper
330 100
332 95.5 77.4 116.2
141 31.2 24.9 37.3





#45
2-Fluorobiphenyl
Concen: 53.124 ng
RT: 9.180 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

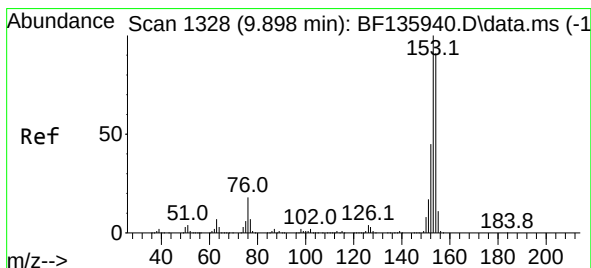
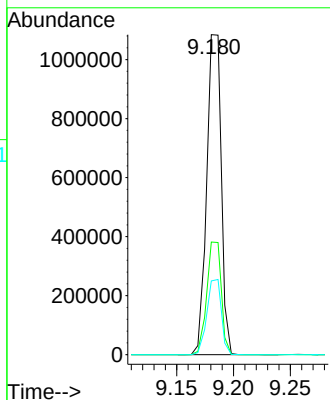
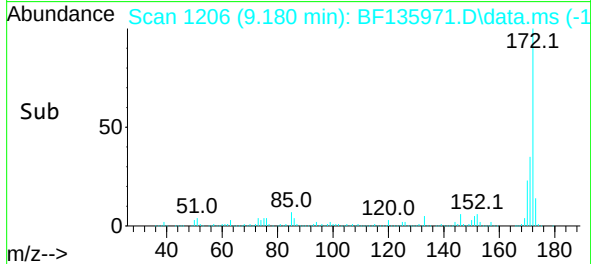
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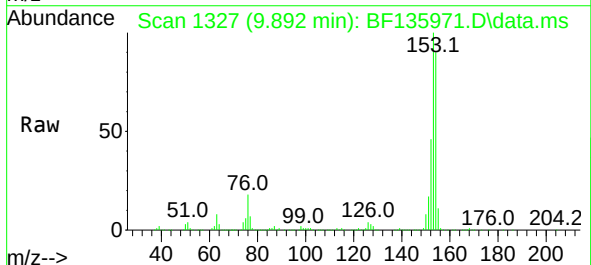
Tgt Ion:172 Resp: 96348
Ion Ratio Lower Upper
172 100
171 35.2 28.6 43.0
170 23.1 18.6 28.0

Manual Integrations
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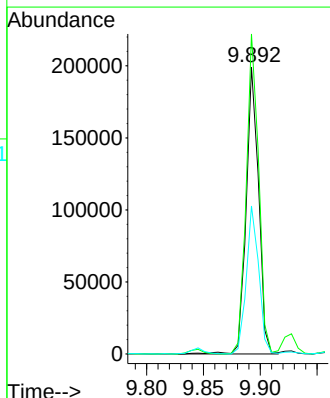
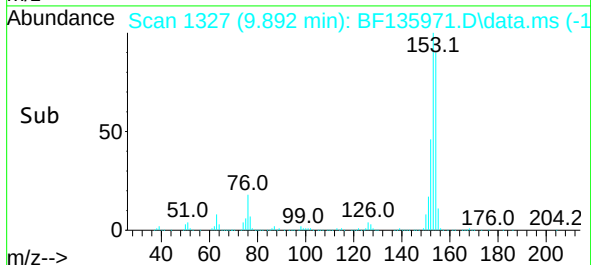
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

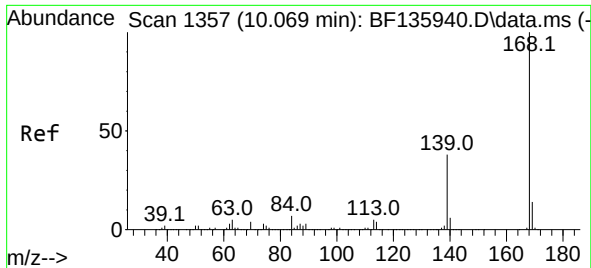


#52
Acenaphthene
Concen: 9.208 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20



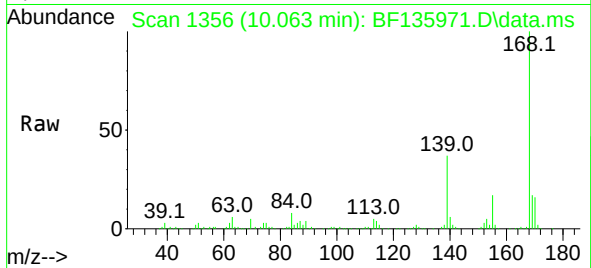
Tgt Ion:154 Resp: 151529
Ion Ratio Lower Upper
154 100
153 111.5 88.0 132.0
152 51.6 39.4 59.2





#55
Dibenzenofuran
Concen: 4.911 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

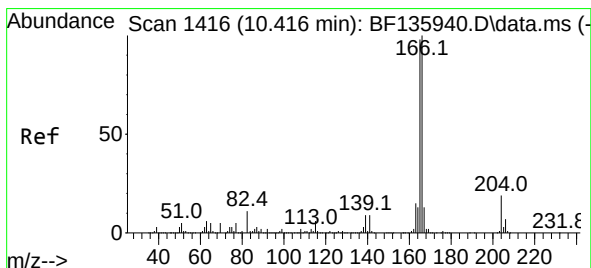
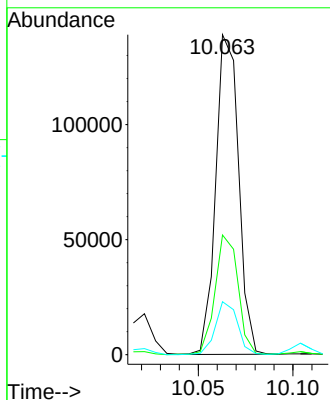
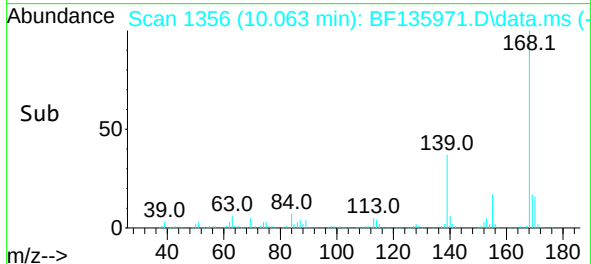
Instrument :
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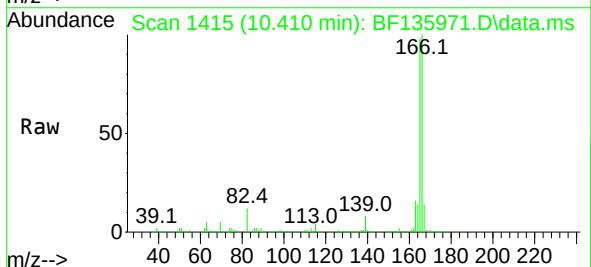
Tgt Ion:168 Resp: 11675
Ion Ratio Lower Upper
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139 37.4 30.7 46.1
169 16.6 11.1 16.7

Manual Integrations
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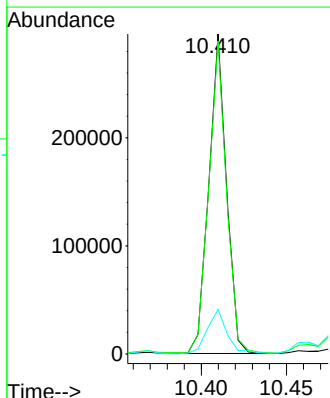
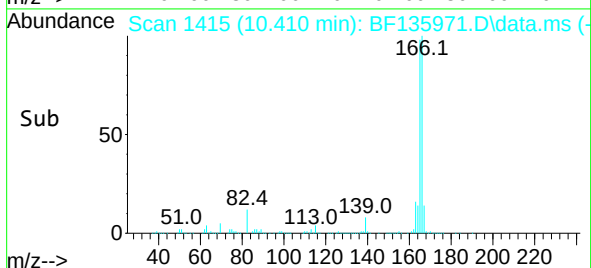
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

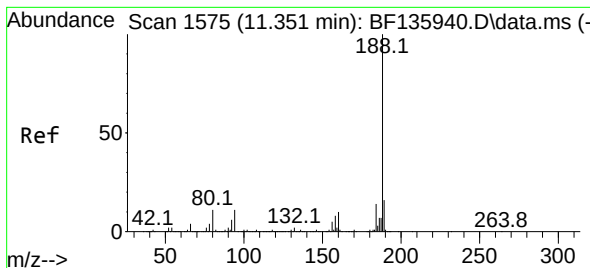


#58
Fluorene
Concen: 11.939 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20



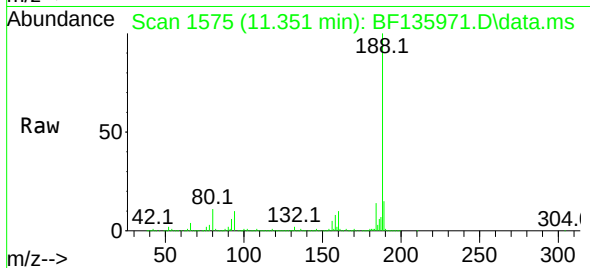
Tgt Ion:166 Resp: 212346
Ion Ratio Lower Upper
166 100
165 97.8 78.0 117.0
167 13.9 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1135
Delta R.T. 0.000 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

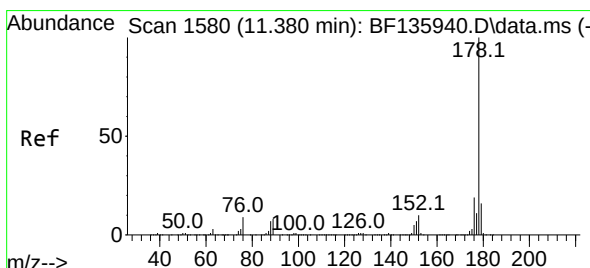
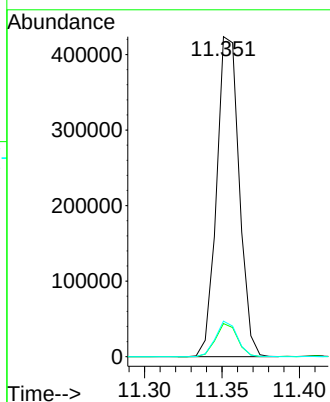
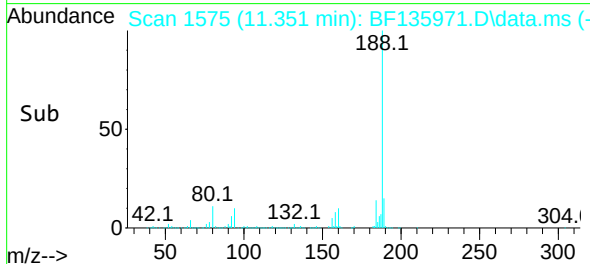
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)



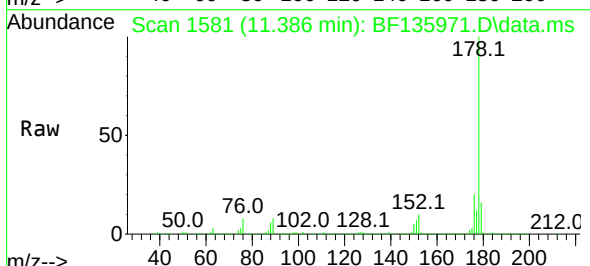
Tgt Ion:188 Resp: 429569
Ion Ratio Lower Upper
188 100
94 10.4 8.6 13.0
80 11.1 9.0 13.6

Manual Integrations
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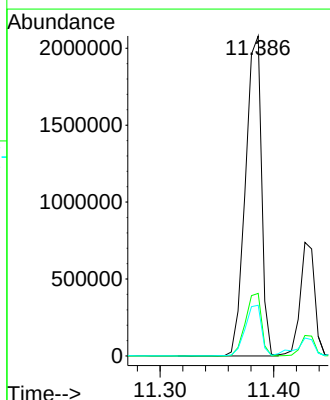
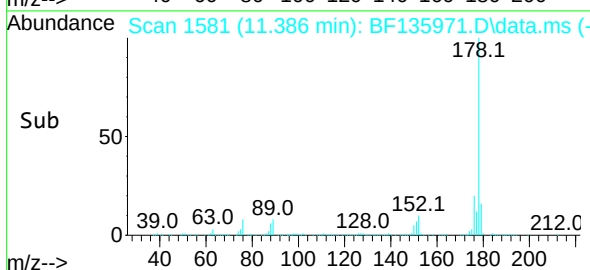
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

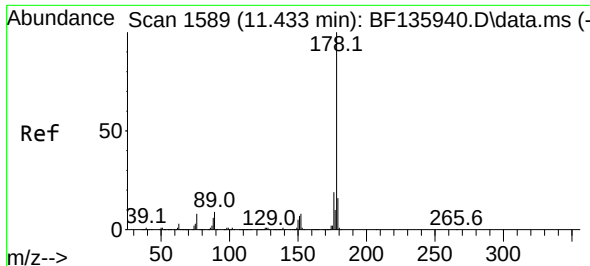


#71
Phenanthrene
Concen: 93.871 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20



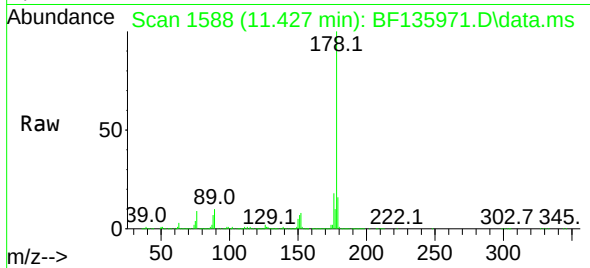
Tgt Ion:178 Resp: 2040100
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.9 12.5 18.7





#72
 Anthracene
 Concen: 28.880 ng
 RT: 11.427 min Scan# 11427
 Delta R.T. -0.006 min
 Lab File: BF135971.D
 Acq: 26 Oct 2023 19:20

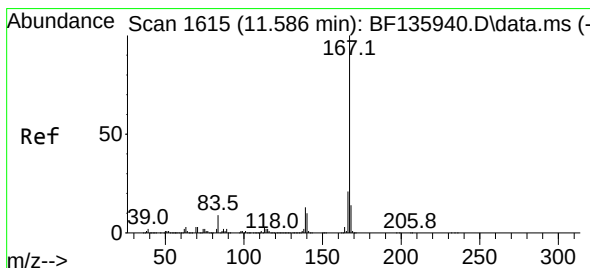
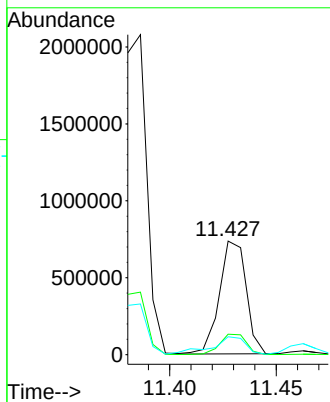
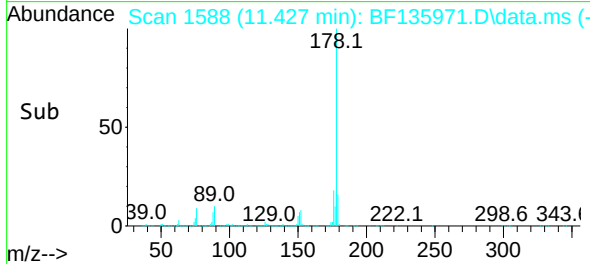
Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)



Tgt Ion:178 Resp: 642658
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 15.8 12.5 18.7

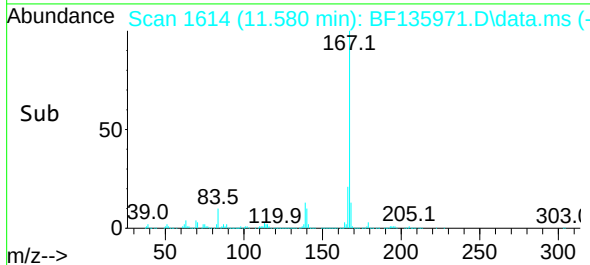
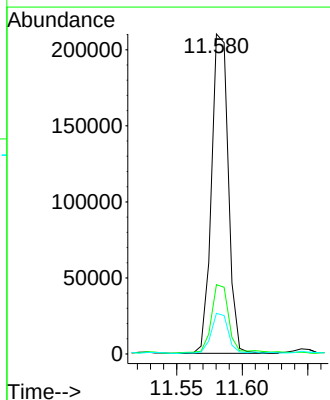
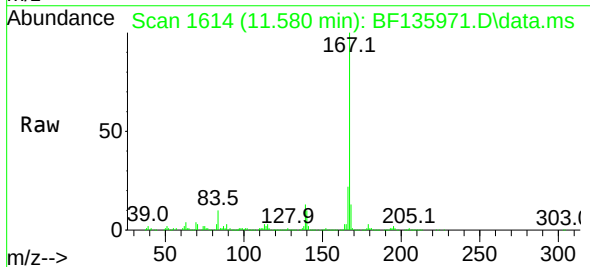
Manual Integrations
 APPROVED

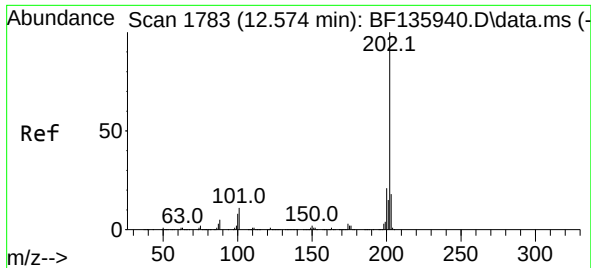
Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023



#73
 Carbazole
 Concen: 9.459 ng
 RT: 11.580 min Scan# 1614
 Delta R.T. -0.006 min
 Lab File: BF135971.D
 Acq: 26 Oct 2023 19:20

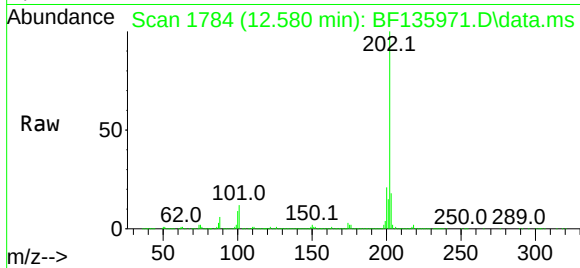
Tgt Ion:167 Resp: 187765
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.0 25.6
 139 12.7 10.4 15.6





#75
Fluoranthene
Concen: 91.340 ng
RT: 12.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

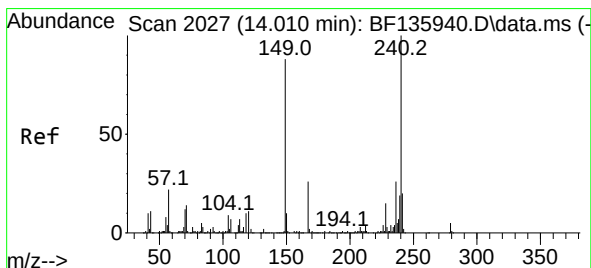
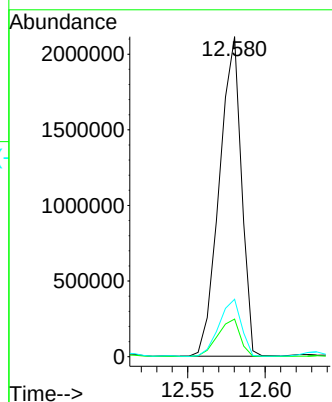
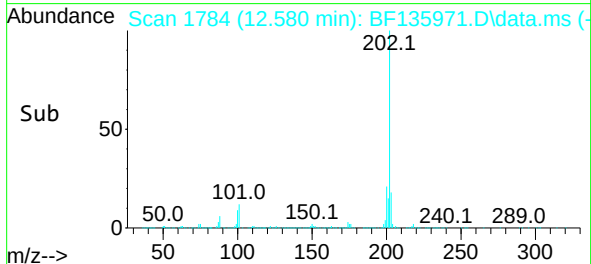
Instrument :
BNA_F
ClientSampleId :
S-2(10-15)



Tgt Ion:202 Resp: 208841
Ion Ratio Lower Upper
202 100
101 11.7 0.0 30.6
203 17.9 0.0 37.5

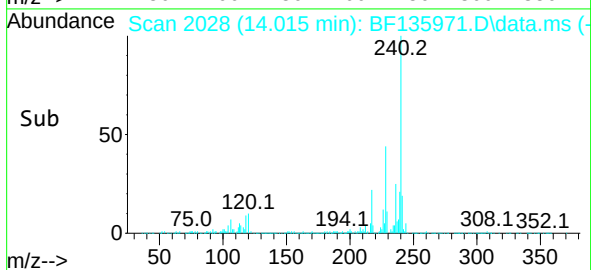
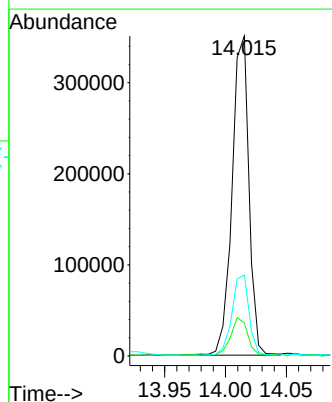
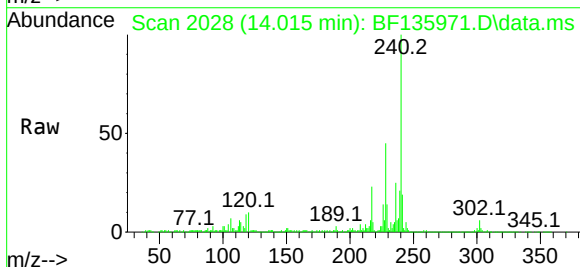
Manual Integrations
APPROVED

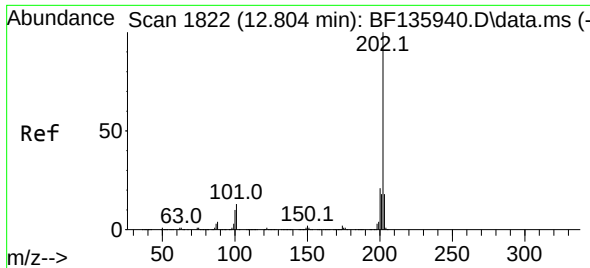
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.015 min Scan# 2028
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

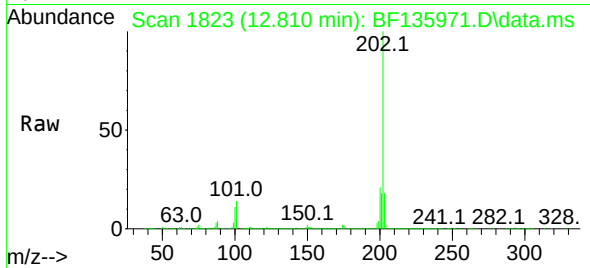
Tgt Ion:240 Resp: 337057
Ion Ratio Lower Upper
240 100
120 10.3 8.6 13.0
236 25.3 20.6 30.8





#78
 Pyrene
 Concen: 73.979 ng
 RT: 12.810 min Scan# 1822
 Delta R.T. 0.006 min
 Lab File: BF135971.D
 Acq: 26 Oct 2023 19:20

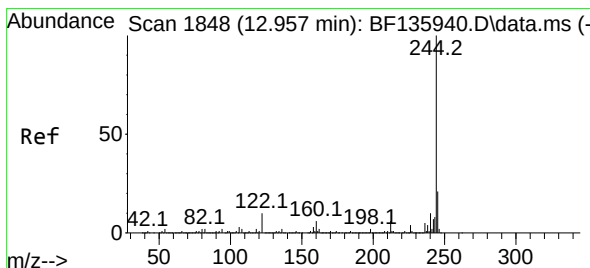
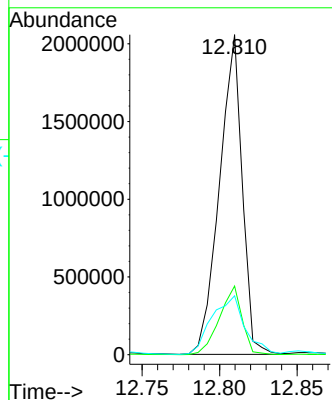
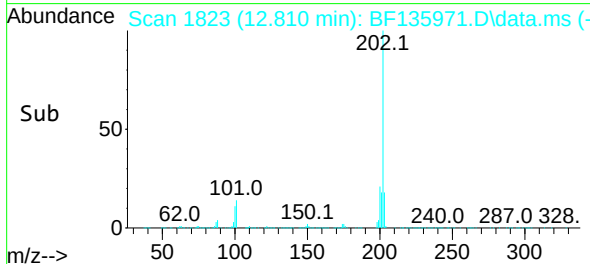
Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)



Tgt Ion:202 Resp: 209365
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.0 25.6
 203 18.4 14.5 21.7

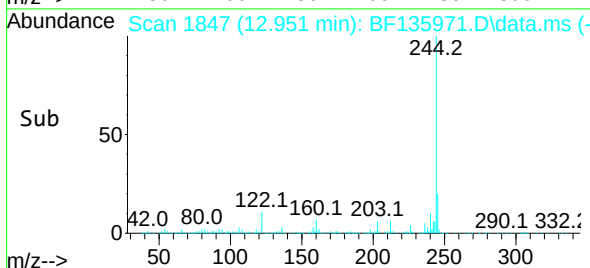
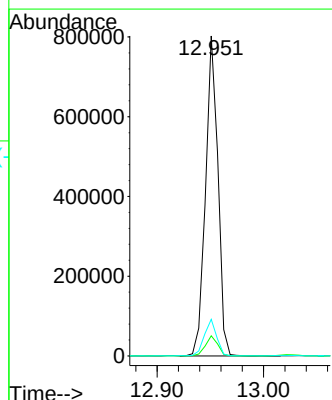
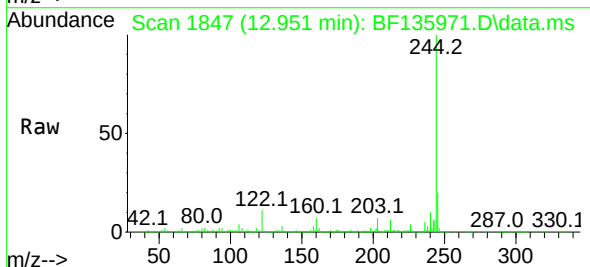
Manual Integrations
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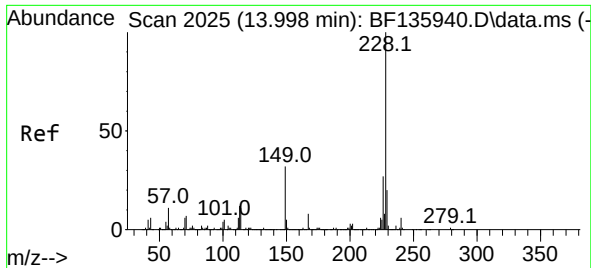
Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023



#79
 Terphenyl-d14
 Concen: 32.213 ng
 RT: 12.951 min Scan# 1847
 Delta R.T. -0.006 min
 Lab File: BF135971.D
 Acq: 26 Oct 2023 19:20

Tgt Ion:244 Resp: 649846
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.0 7.6
 122 11.5 8.0 12.0





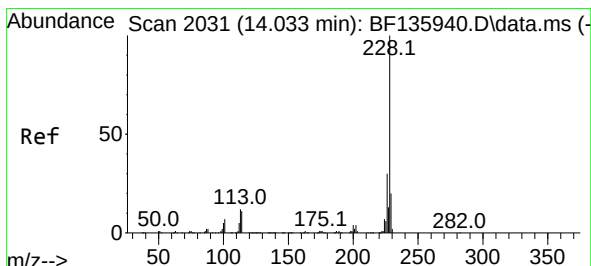
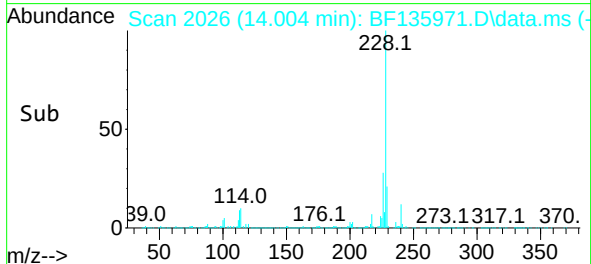
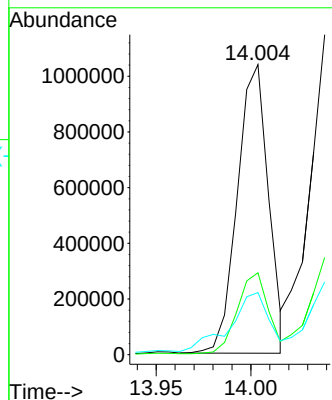
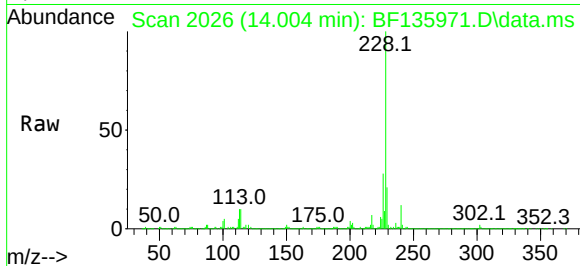
#81
Benzo(a)anthracene
Concen: 51.670 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

Instrument :
BNA_F
ClientSampleId :
S-2(10-15)

Tgt Ion:228 Resp: 1184170
Ion Ratio Lower Upper
228 100
226 28.2 21.8 32.6
229 21.4 16.2 24.4

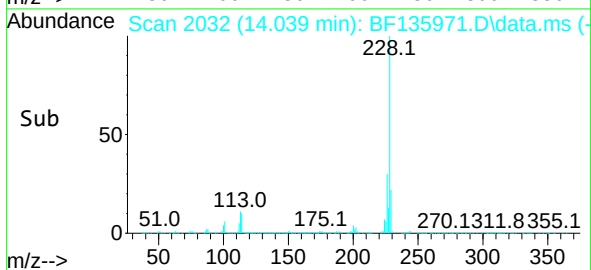
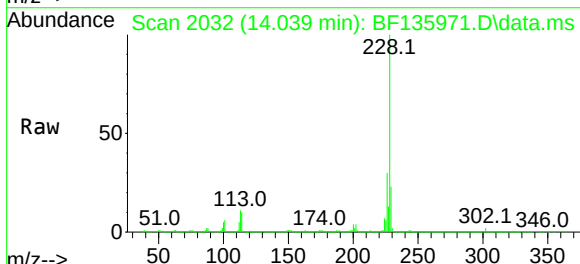
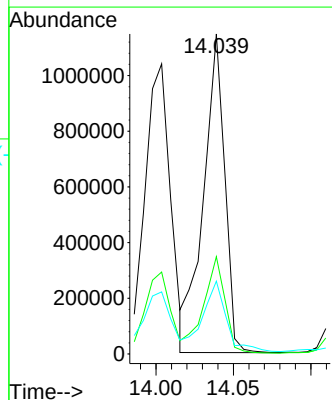
Manual Integrations
APPROVED

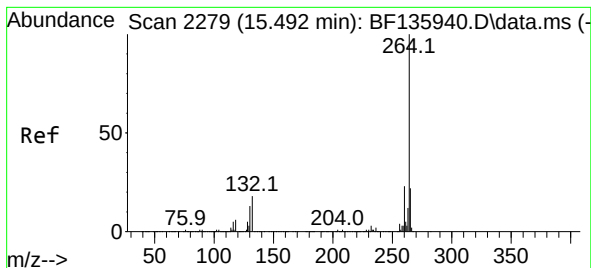
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#83
Chrysene
Concen: 49.006 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF135971.D
Acq: 26 Oct 2023 19:20

Tgt Ion:228 Resp: 1093867
Ion Ratio Lower Upper
228 100
226 30.4 23.9 35.9
229 22.7 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)

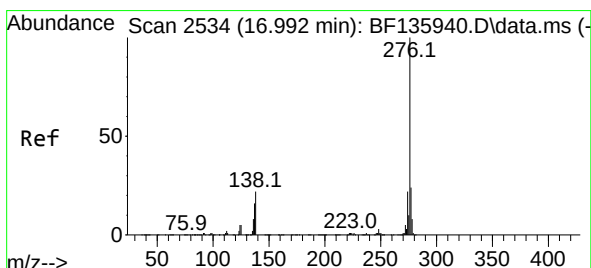
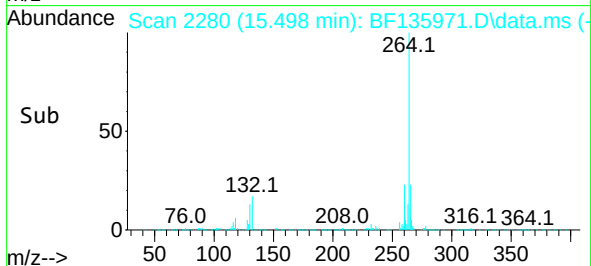
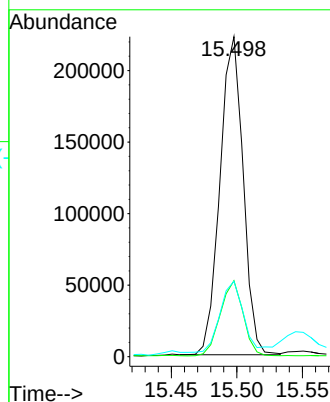
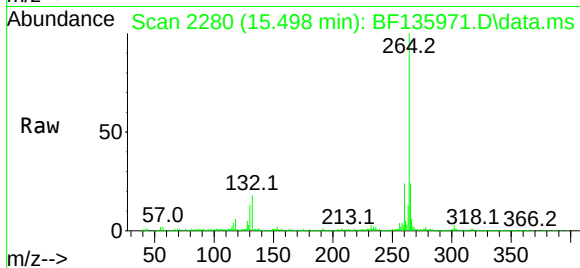
Tgt Ion:264 Resp: 27334

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	23.6	17.3	25.9

Manual Integrations

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Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.371 ng

RT: 16.998 min Scan# 2535

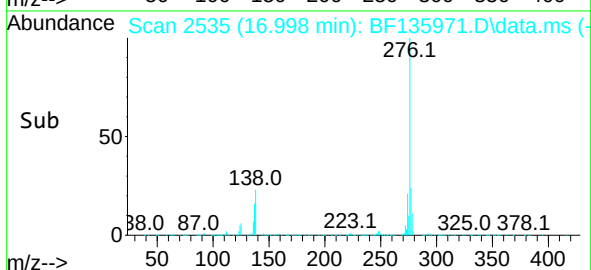
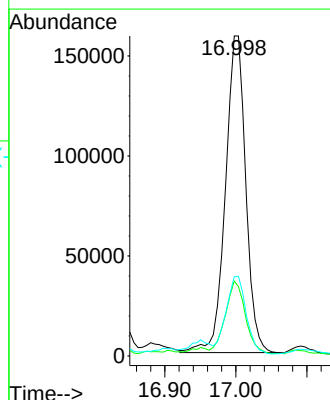
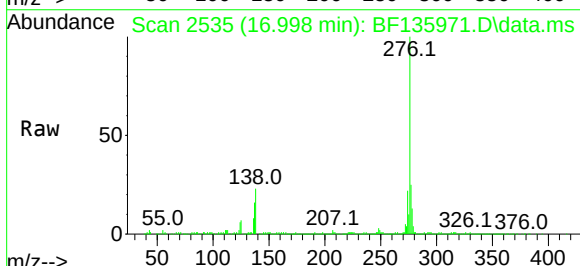
Delta R.T. 0.006 min

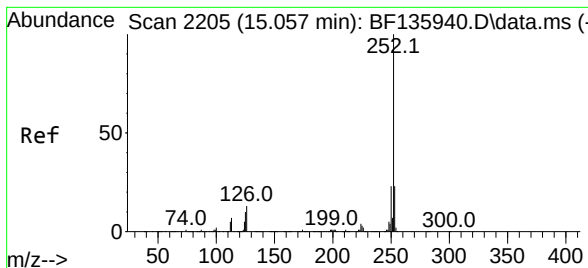
Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Tgt Ion:276 Resp: 315747

Ion	Ratio	Lower	Upper
276	100		
138	22.4	21.8	32.6
277	24.0	20.0	30.0





#88

Benzo(b)fluoranthene

Concen: 57.691 ng m

RT: 15.062 min Scan# 2206

Delta R.T. 0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)

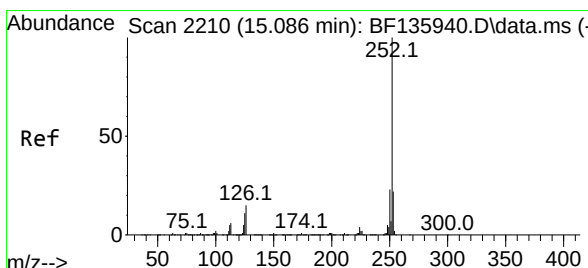
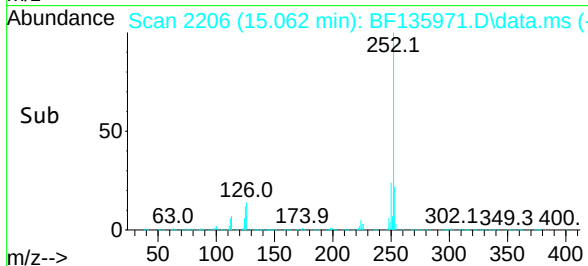
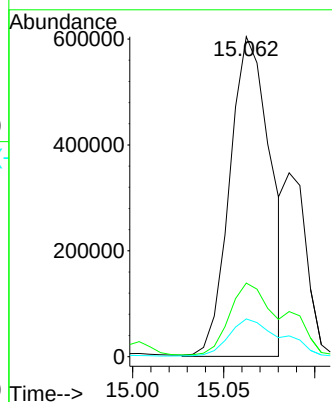
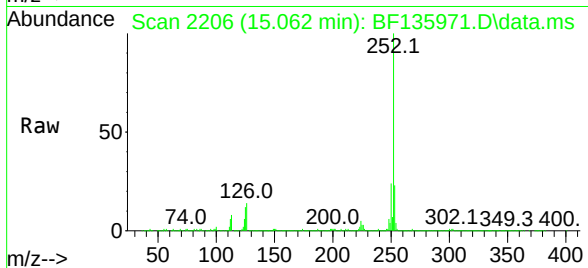
Tgt Ion:252 Resp: 938475
 Ion Ratio Lower Upper
 252 100
 253 23.0 18.0 27.0
 125 11.8 8.2 12.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#89

Benzo(k)fluoranthene

Concen: 18.484 ng m

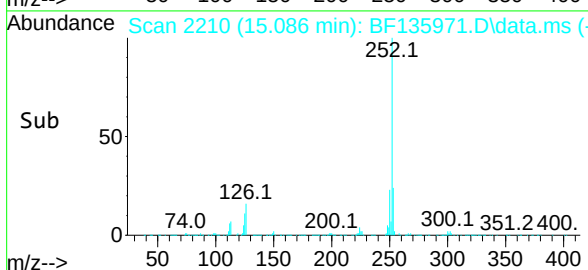
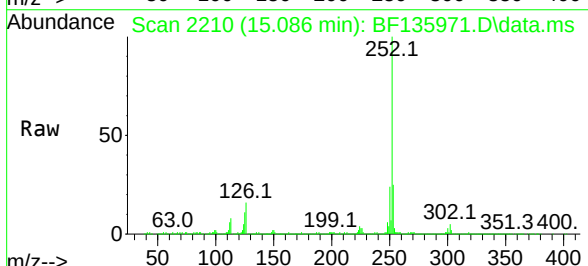
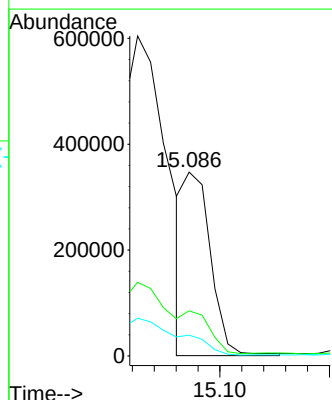
RT: 15.086 min Scan# 2210

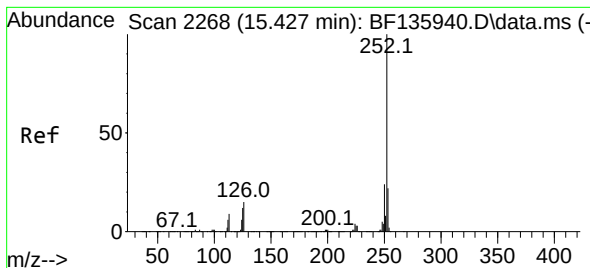
Delta R.T. 0.000 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Tgt Ion:252 Resp: 295310
 Ion Ratio Lower Upper
 252 100
 253 24.5 17.7 26.5
 125 11.4 8.5 12.7





#90

Benzo(a)pyrene

Concen: 45.066 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

Instrument :

BNA_F

ClientSampleId :

S-2(10-15)

Tgt Ion:252 Resp: 675658

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

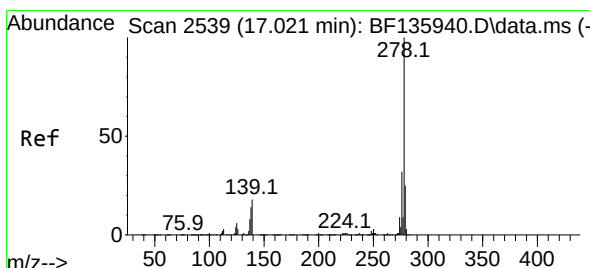
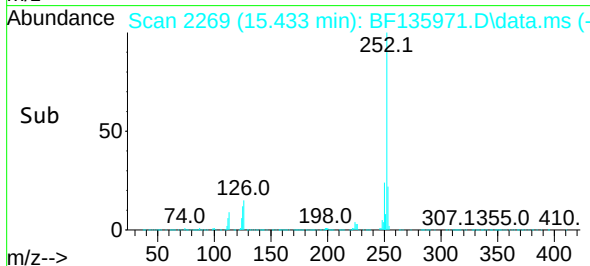
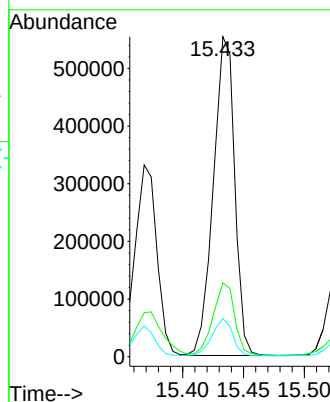
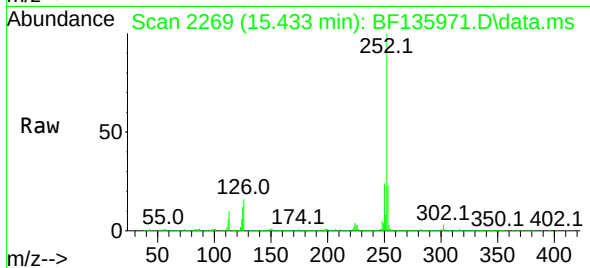
125 12.0 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#91

Dibenzo(a,h)anthracene

Concen: 6.215 ng

RT: 17.015 min Scan# 2538

Delta R.T. -0.006 min

Lab File: BF135971.D

Acq: 26 Oct 2023 19:20

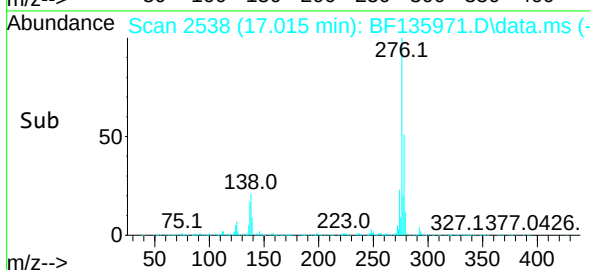
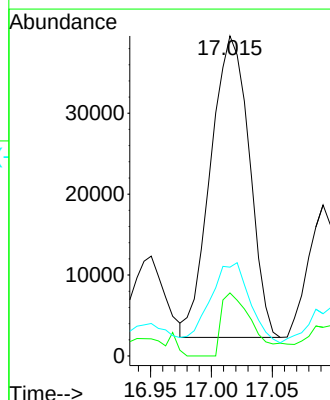
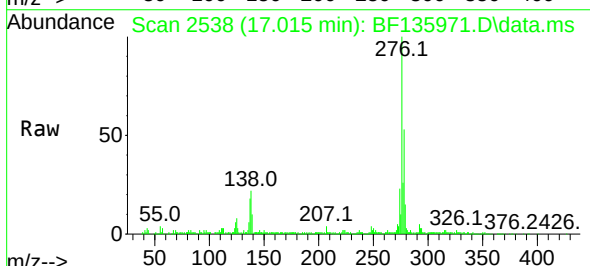
Tgt Ion:278 Resp: 82402

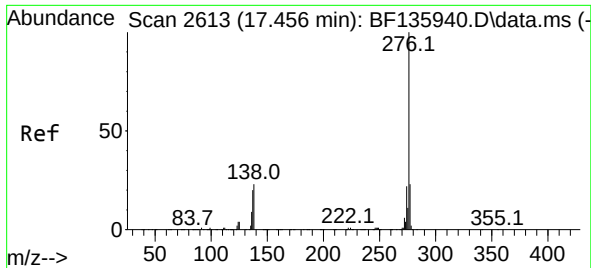
Ion Ratio Lower Upper

278 100

139 19.7 14.0 21.0

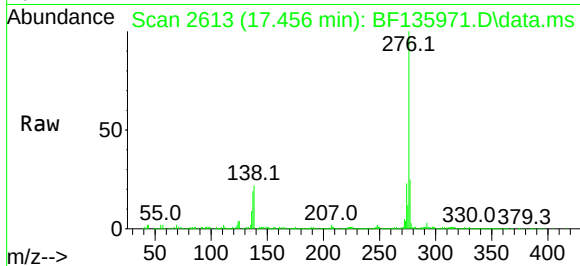
279 27.7 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 21.209 ng
 RT: 17.456 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF135971.D
 Acq: 26 Oct 2023 19:20

Instrument :
 BNA_F
 ClientSampleId :
 S-2(10-15)



Tgt Ion:	276	Resp:	285390
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.6	28.0
138	22.3	18.4	27.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023

