

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082423\
 Data File : BF134923.D
 Acq On : 24 Aug 2023 14:36
 Operator : CG\JU
 Sample : 04100-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023

Quant Time: Aug 24 15:18:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	110649	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	389945	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	156854	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	200467	20.000	ng	# 0.01
76) Chrysene-d12	14.004	240	220273	20.000	ng	# 0.02
86) Perylene-d12	15.474	264	256176	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	706395	101.804	ng	0.00
7) Phenol-d6	6.434	99	832673	93.913	ng	0.00
23) Nitrobenzene-d5	7.357	82	512314	72.396	ng	0.00
42) 2,4,6-Tribromophenol	10.633	330	159723	86.461	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	800552	78.899	ng	0.00
79) Terphenyl-d14	12.945	244	646403	40.362	ng	0.02
Target Compounds						Qvalue
49) Acenaphthylene	9.692	152	29577	2.077	ng	# 75
71) Phenanthrene	11.363	178	261178	24.863	ng	# 90
72) Anthracene	11.416	178	72876	6.771	ng	# 69
73) Carbazole	11.575	167	20423	2.303	ng	# 30
75) Fluoranthene	12.574	202	525635m	52.810	ng	
78) Pyrene	12.804	202	463212	19.834	ng	97
81) Benzo(a)anthracene	13.998	228	375820	25.007	ng	95
83) Chrysene	14.033	228	351205	23.685	ng	96
87) Indeno(1,2,3-cd)pyrene	16.956	276	174570	9.534	ng	95
88) Benzo(b)fluoranthene	15.045	252	511264m	35.374	ng	
89) Benzo(k)fluoranthene	15.068	252	146258m	10.305	ng	
90) Benzo(a)pyrene	15.410	252	328324	22.755	ng	99
91) Dibenzo(a,h)anthracene	16.968	278	43638	2.945	ng	92
92) Benzo(g,h,i)perylene	17.409	276	148906	9.818	ng	98

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

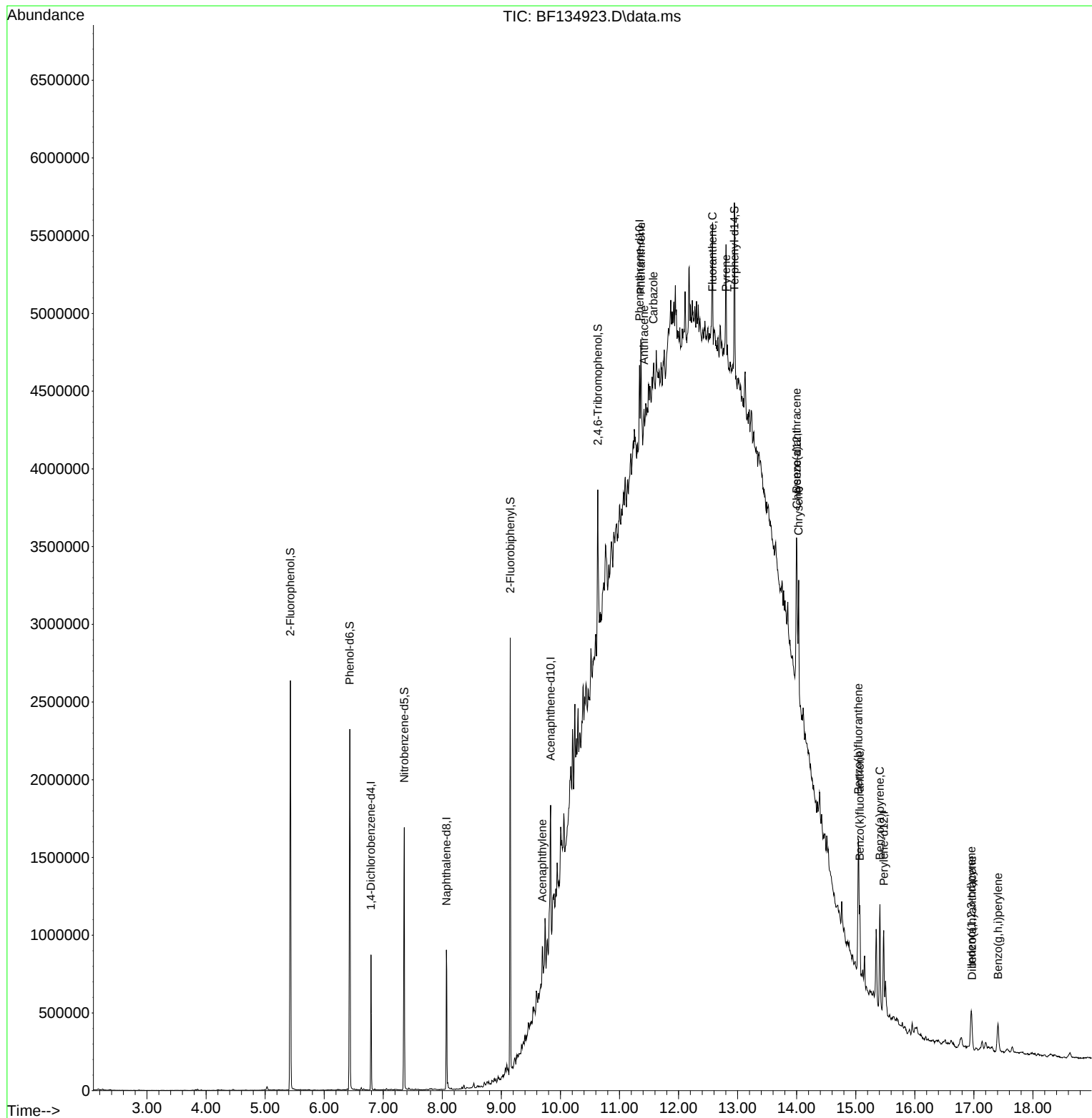
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082423\
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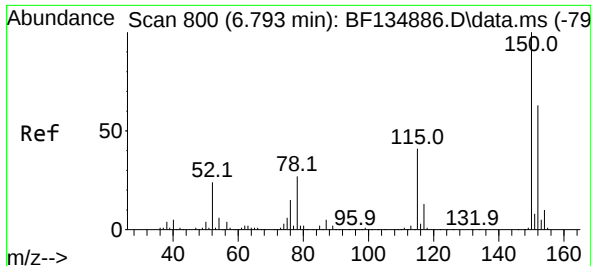
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
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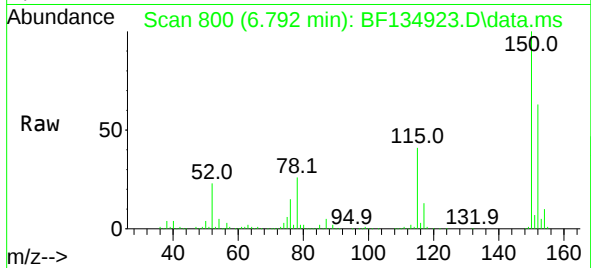
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.001 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

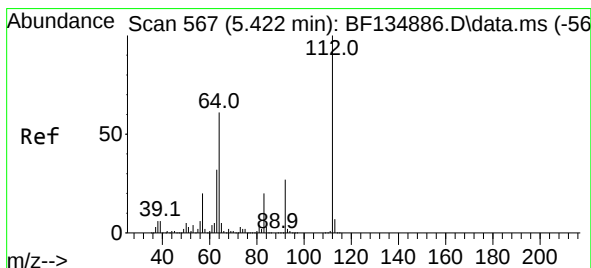
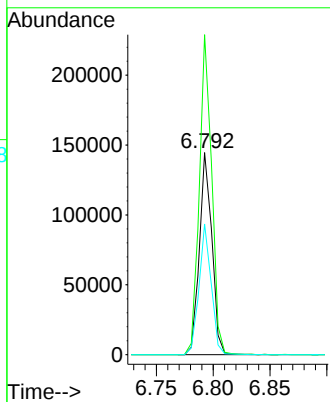
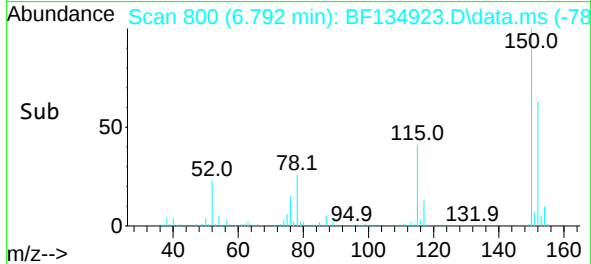
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 110649
Ion Ratio Lower Upper
152 100
150 158.3 126.1 189.1
115 64.7 51.1 76.7

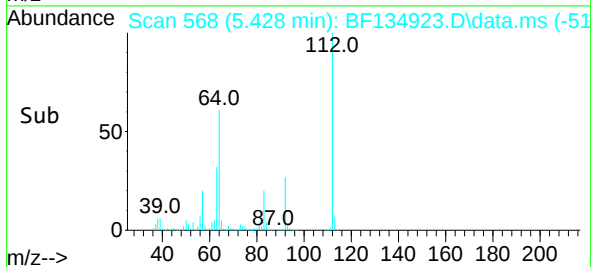
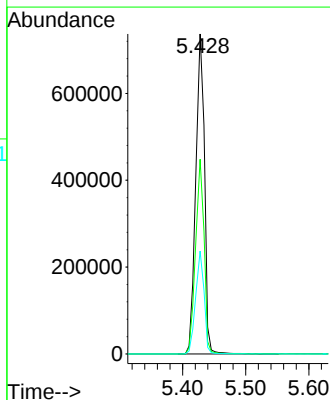
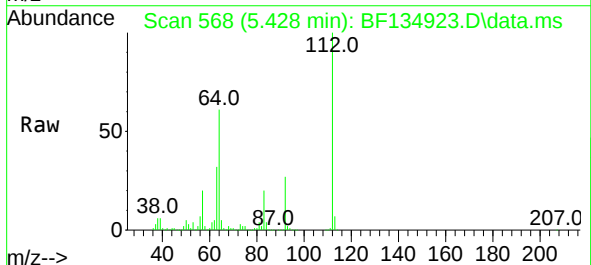
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#5
2-Fluorophenol
Concen: 101.804 ng
RT: 5.428 min Scan# 568
Delta R.T. 0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

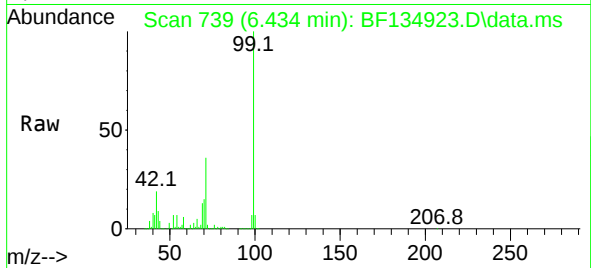
Tgt Ion:112 Resp: 706395
Ion Ratio Lower Upper
112 100
64 60.8 48.6 73.0
63 32.2 25.7 38.5





#7
Phenol-d6
Concen: 93.913 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

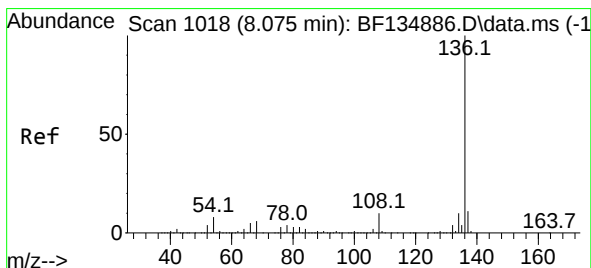
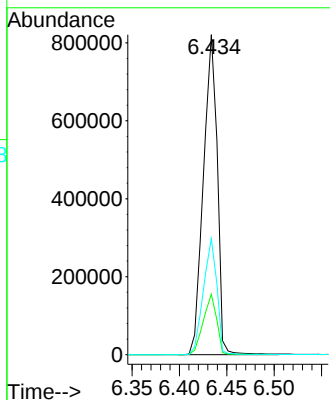
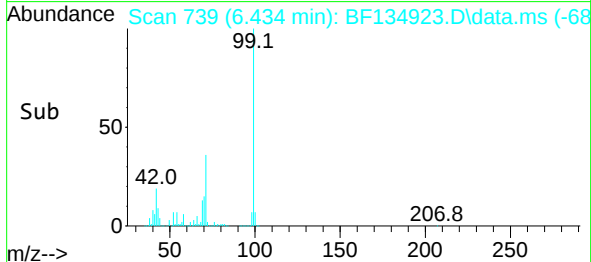
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion: 99 Resp: 83267
Ion Ratio Lower Upper
99 100
42 18.9 14.6 22.0
71 36.2 27.6 41.4

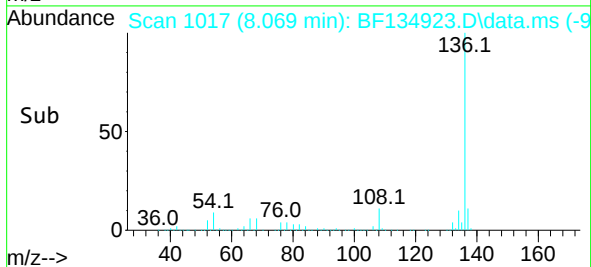
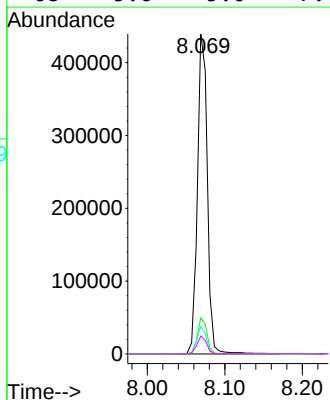
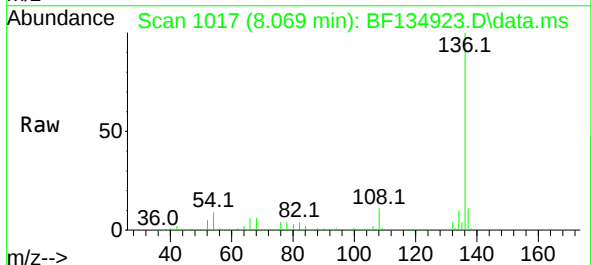
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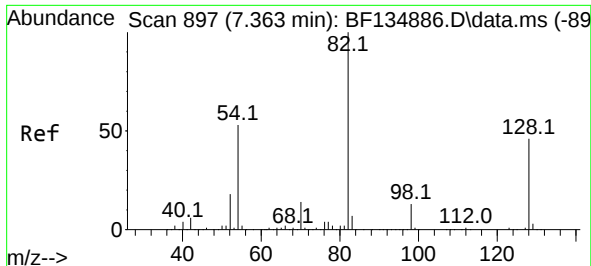
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

Tgt Ion:136 Resp: 389945
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.6 6.6 9.8
68 5.6 5.0 7.4





#23

Nitrobenzene-d5

Concen: 72.396 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Instrument :

BNA_F

ClientSampleId :

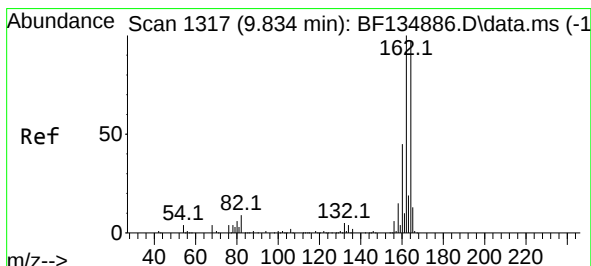
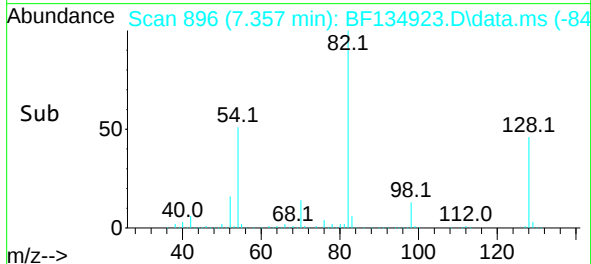
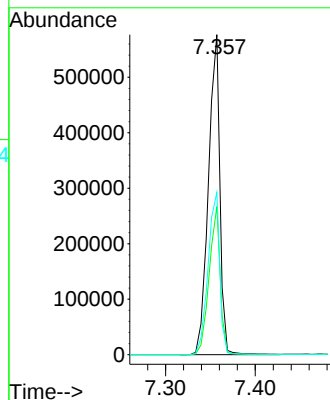
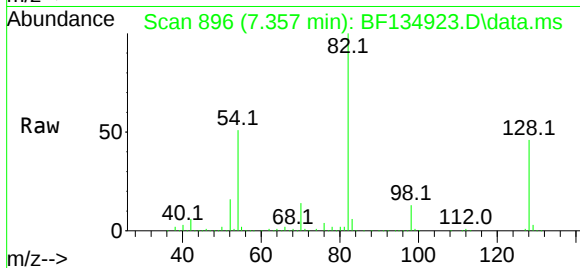
WC-1

Tgt Ion: 82 Resp: 512314
 Ion Ratio Lower Upper
 82 100
 128 46.3 36.6 54.8
 54 50.8 42.6 63.8

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#39

Acenaphthene-d10

Concen: 20.000 ng

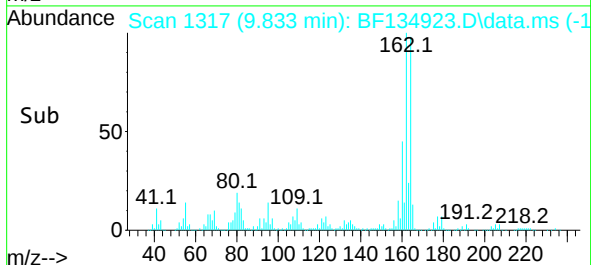
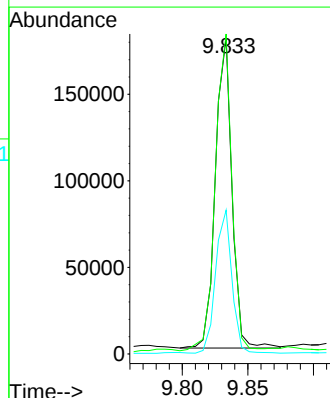
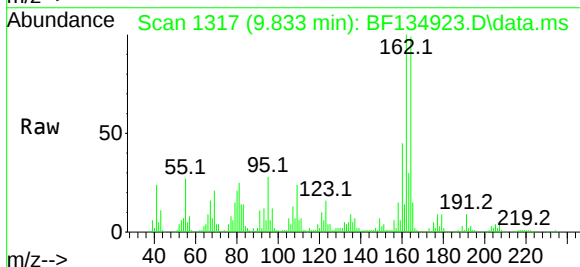
RT: 9.833 min Scan# 1317

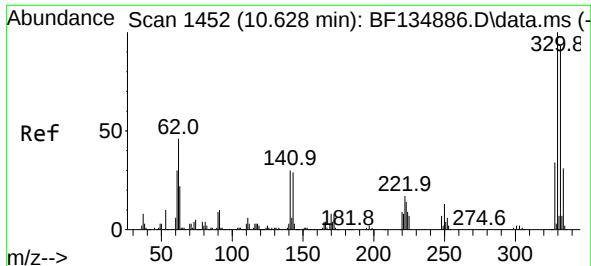
Delta R.T. -0.000 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

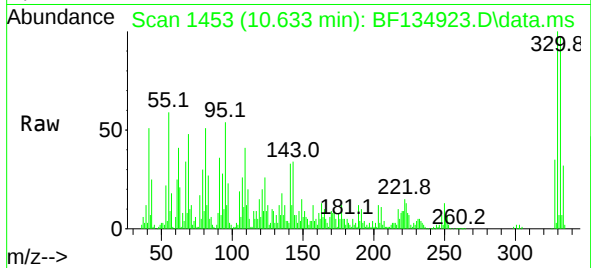
Tgt Ion:164 Resp: 156854
 Ion Ratio Lower Upper
 164 100
 162 101.2 82.6 123.8
 160 45.5 37.0 55.4





#42
2,4,6-Tribromophenol
Concen: 86.461 ng
RT: 10.633 min Scan# 1452
Delta R.T. 0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

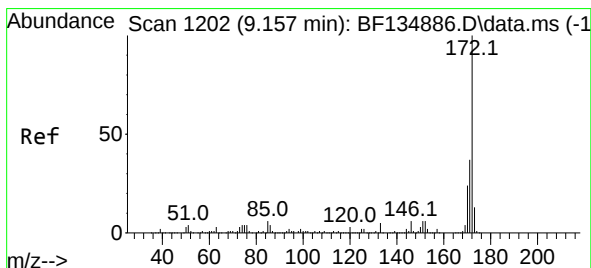
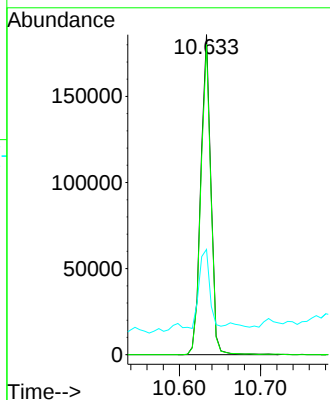
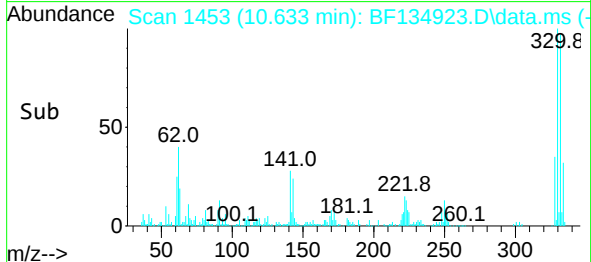
Instrument :
BNA_F
ClientSampleId :
WC-1



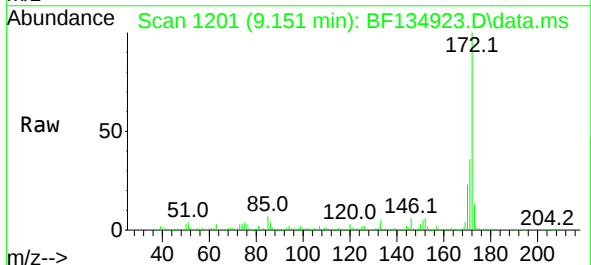
Tgt Ion:330 Resp: 15972
Ion Ratio Lower Upper
330 100
332 96.4 76.3 114.5
141 26.2 23.4 35.2

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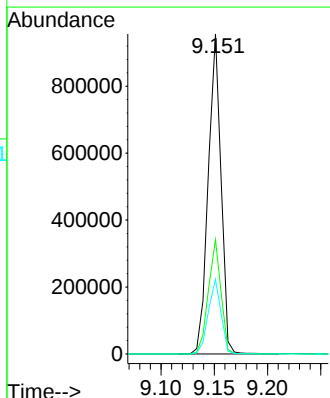
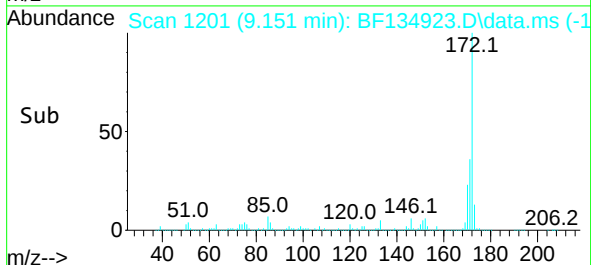
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

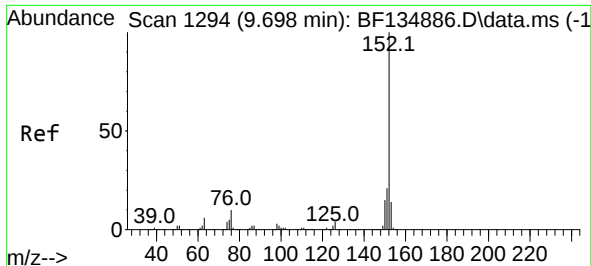


#45
2-Fluorobiphenyl
Concen: 78.899 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36



Tgt Ion:172 Resp: 800552
Ion Ratio Lower Upper
172 100
171 35.7 29.4 44.0
170 23.4 19.6 29.4





#49

Acenaphthylene

Concen: 2.077 ng

RT: 9.692 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:152 Resp: 2957

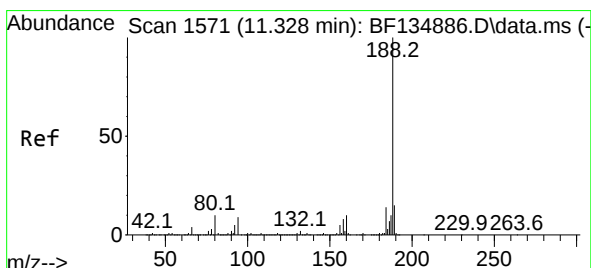
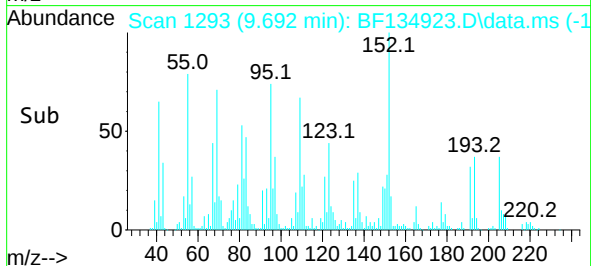
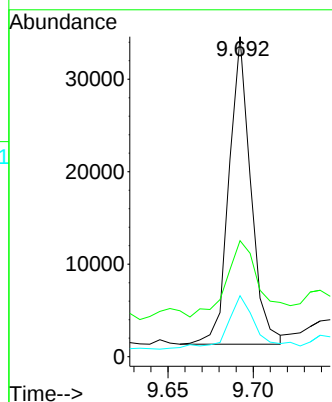
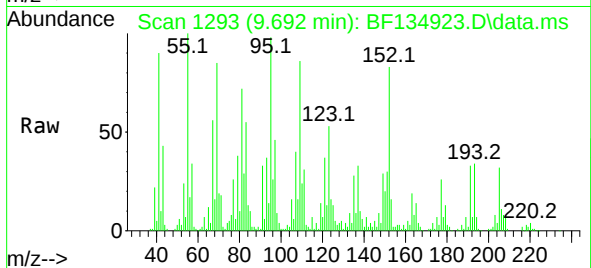
Ion	Ratio	Lower	Upper
152	100		
151	36.3	16.5	24.7
153	19.1	11.3	16.9

Manual Integrations

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Supervised By :mohammad ahmed 08/25/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.339 min Scan# 1573

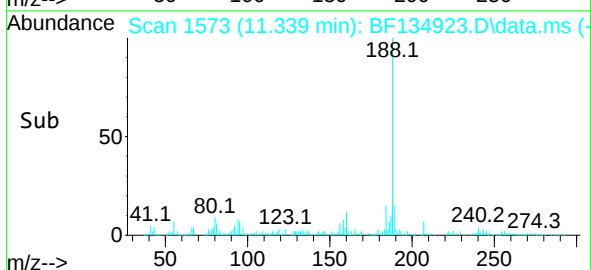
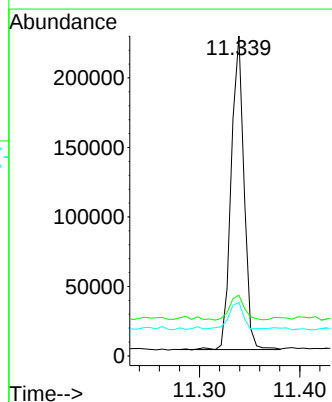
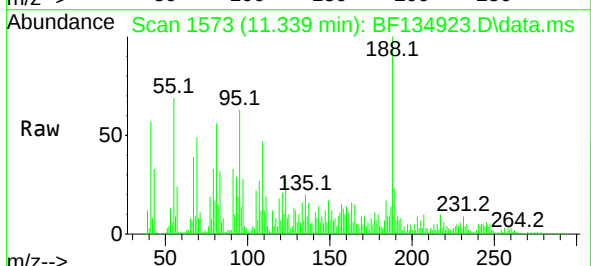
Delta R.T. 0.012 min

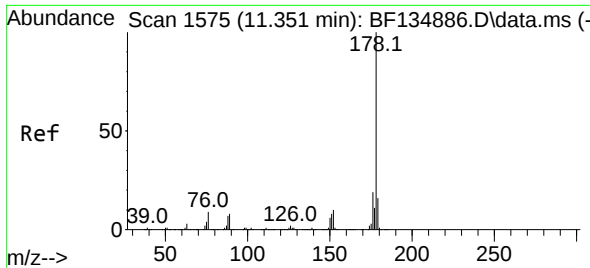
Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Tgt Ion:188 Resp: 200467

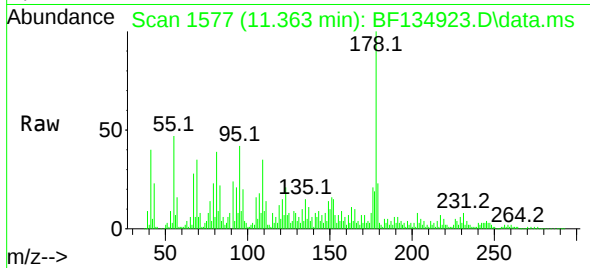
Ion	Ratio	Lower	Upper
188	100		
94	19.0	7.5	11.3#
80	16.8	7.8	11.6#





#71
Phenanthrene
Concen: 24.863 ng
RT: 11.363 min Scan# 11363
Delta R.T. 0.012 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

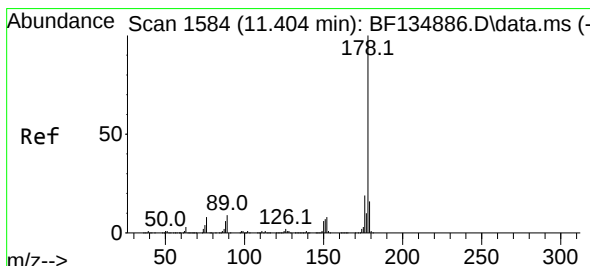
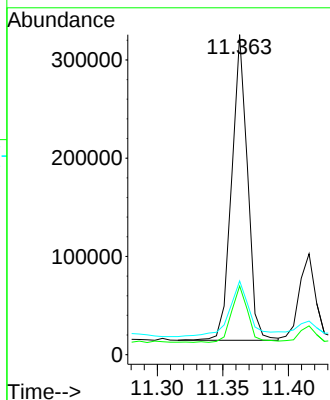
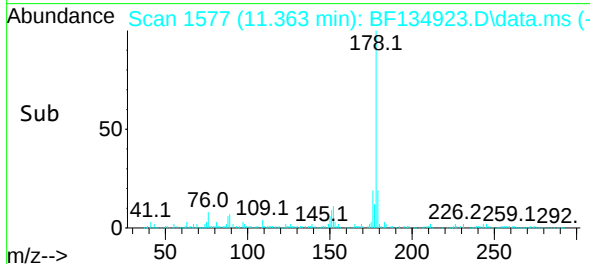
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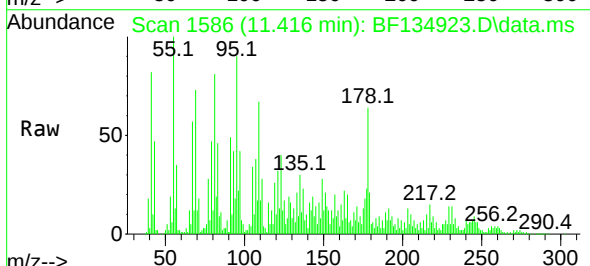
Tgt Ion:178 Resp: 261178
Ion Ratio Lower Upper
178 100
176 21.5 15.5 23.3
179 23.0 12.6 19.0

Manual Integrations
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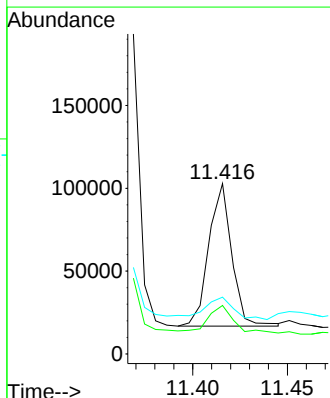
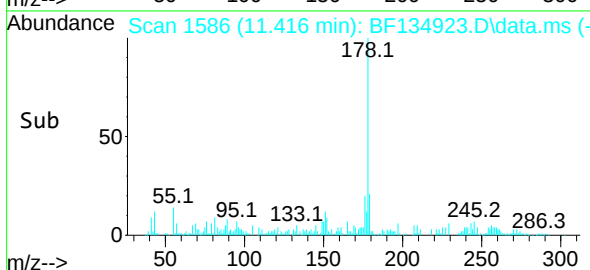
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

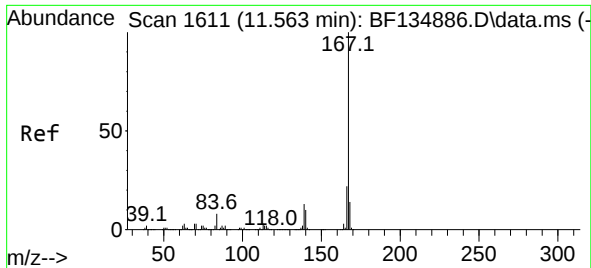


#72
Anthracene
Concen: 6.771 ng
RT: 11.416 min Scan# 1586
Delta R.T. 0.012 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36



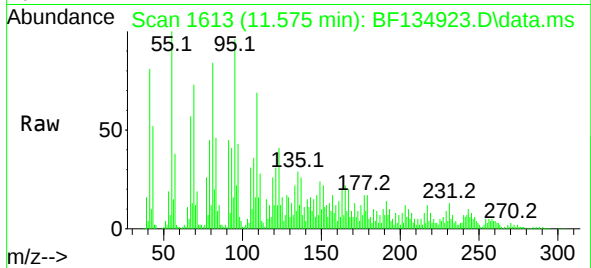
Tgt Ion:178 Resp: 72876
Ion Ratio Lower Upper
178 100
176 28.5 15.0 22.6#
179 33.3 12.5 18.7#





#73
 Carbazole
 Concen: 2.303 ng
 RT: 11.575 min Scan# 1613
 Delta R.T. 0.012 min
 Lab File: BF134923.D
 Acq: 24 Aug 2023 14:36

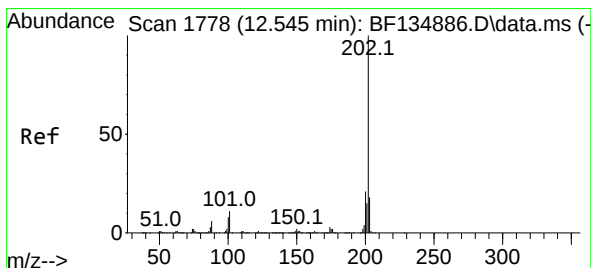
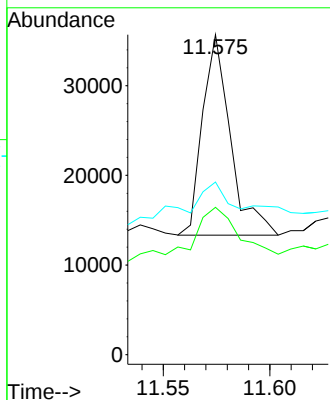
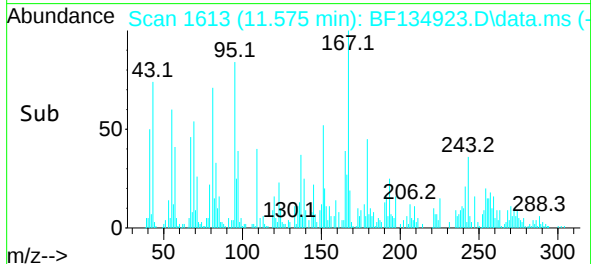
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 BNA_F
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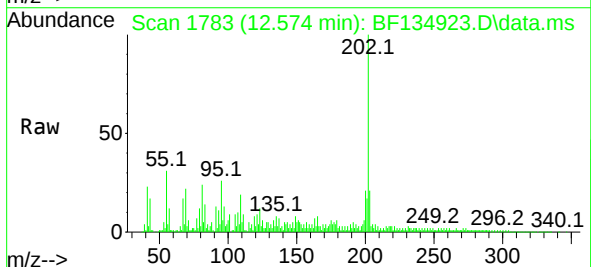
Tgt Ion:167 Resp: 2042
 Ion Ratio Lower Upper
 167 100
 166 46.1 17.4 26.2
 139 54.0 10.4 15.6

Manual Integrations
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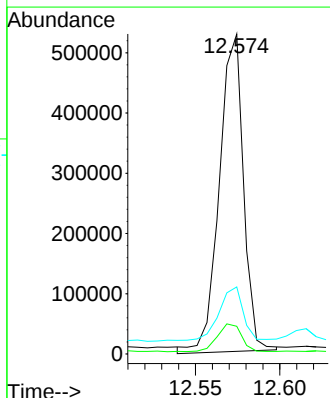
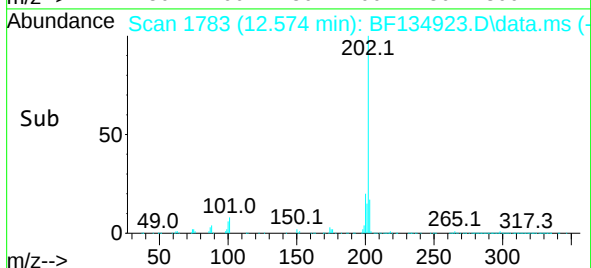
Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023

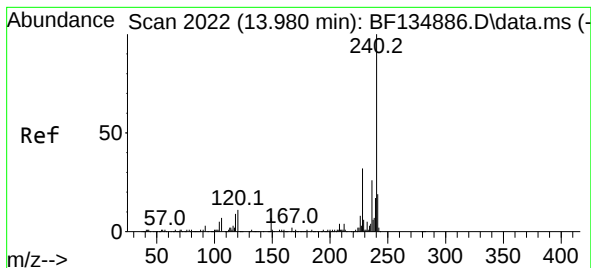


#75
 Fluoranthene
 Concen: 52.810 ng m
 RT: 12.574 min Scan# 1783
 Delta R.T. 0.029 min
 Lab File: BF134923.D
 Acq: 24 Aug 2023 14:36



Tgt Ion:202 Resp: 525635
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 30.5
 203 20.9 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.004 min Scan# 20

Delta R.T. 0.023 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Instrument :

BNA_F

ClientSampleId :

WC-1

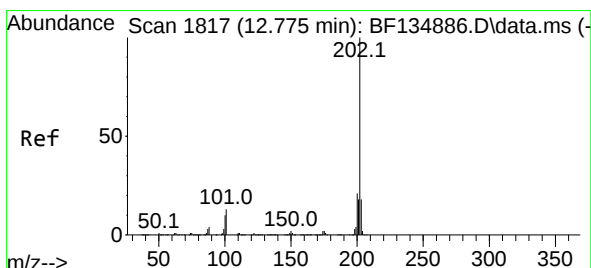
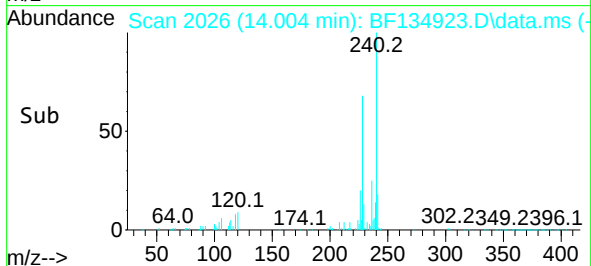
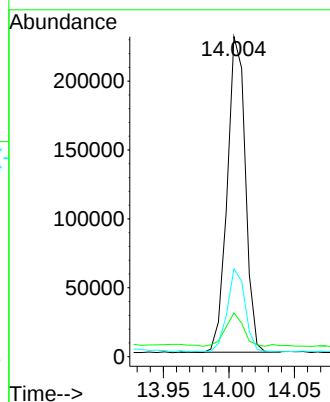
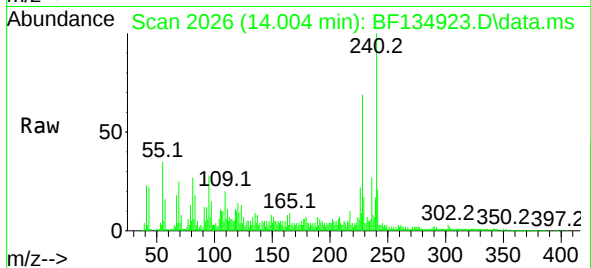
Tgt Ion:240 Resp: 22027
 Ion Ratio Lower Upper
 240 100
 120 13.7 8.6 12.8
 236 27.4 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/25/2023

Supervised By :mohammad ahmed 08/25/2023



#78

Pyrene

Concen: 19.834 ng

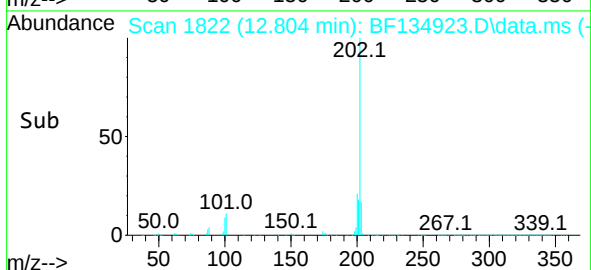
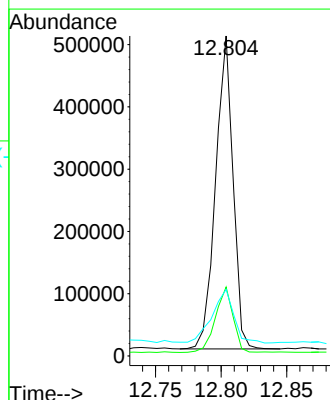
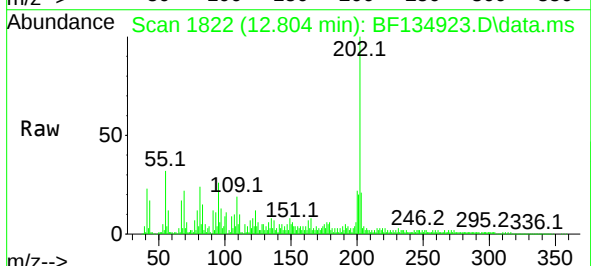
RT: 12.804 min Scan# 1822

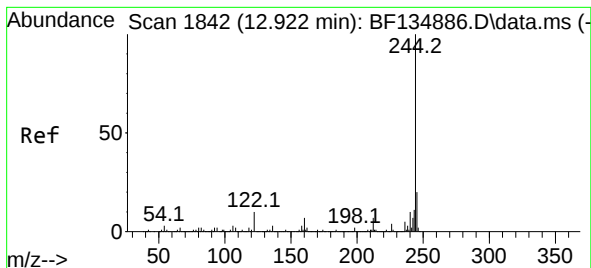
Delta R.T. 0.029 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Tgt Ion:202 Resp: 463212
 Ion Ratio Lower Upper
 202 100
 200 21.6 17.1 25.7
 203 20.8 14.2 21.2





#79

Terphenyl-d14

Concen: 40.362 ng

RT: 12.945 min Scan# 1846

Delta R.T. 0.023 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:244 Resp: 646400

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

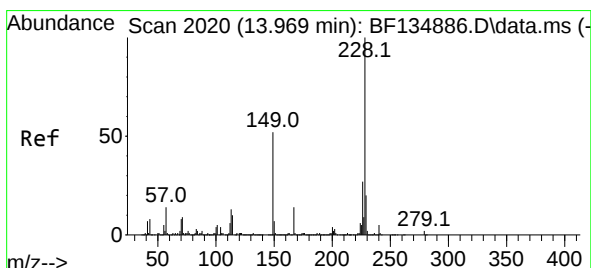
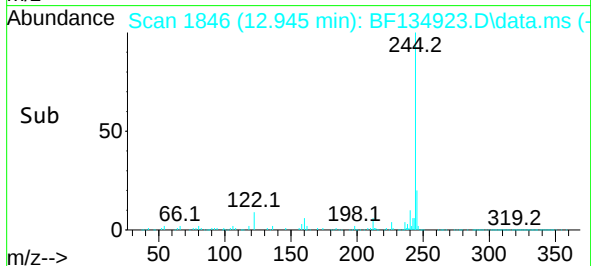
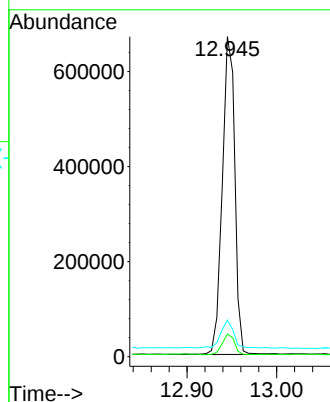
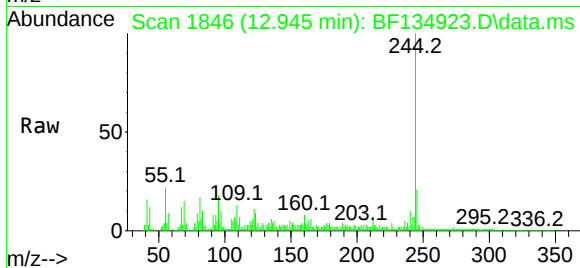
122 11.5 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/25/2023

Supervised By :mohammad ahmed 08/25/2023



#81

Benzo(a)anthracene

Concen: 25.007 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.029 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

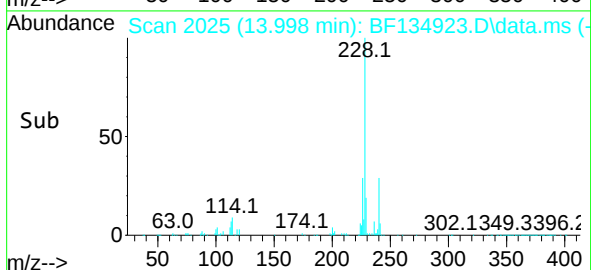
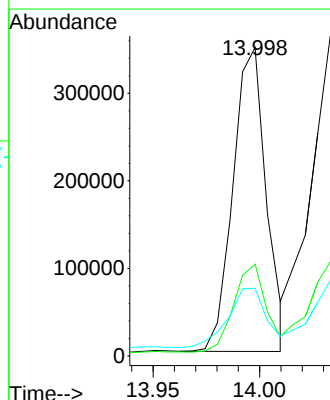
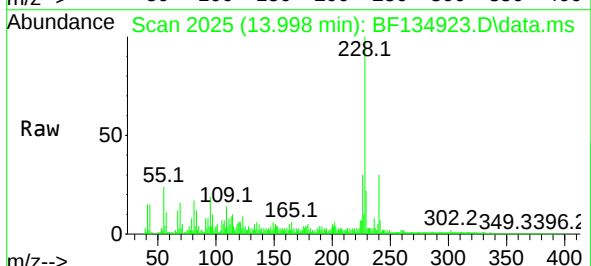
Tgt Ion:228 Resp: 375820

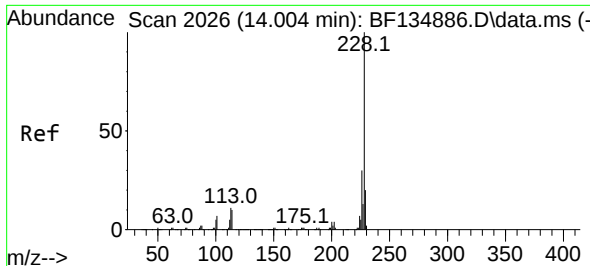
Ion Ratio Lower Upper

228 100

226 29.8 21.8 32.6

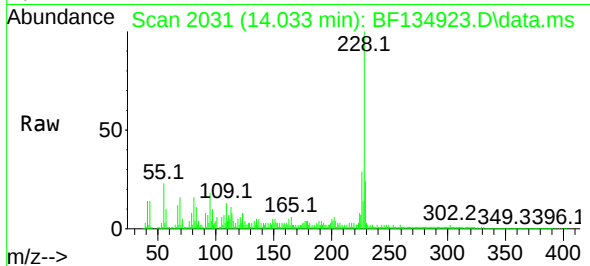
229 22.0 15.6 23.4





#83
Chrysene
Concen: 23.685 ng
RT: 14.033 min Scan# 2026
Delta R.T. 0.029 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

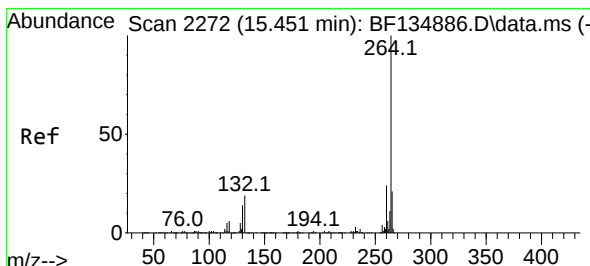
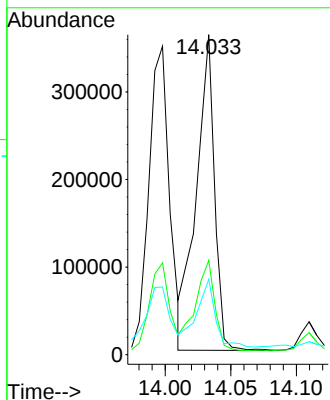
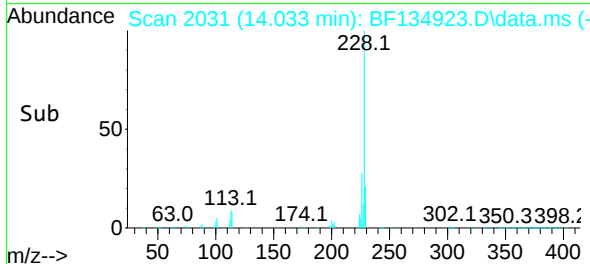
Instrument :
BNA_F
Client SampleId :
WC-1



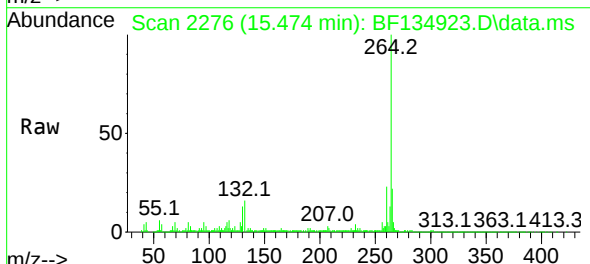
Tgt Ion:228 Resp: 351209
Ion Ratio Lower Upper
228 100
226 29.5 24.2 36.2
229 23.6 16.0 24.0

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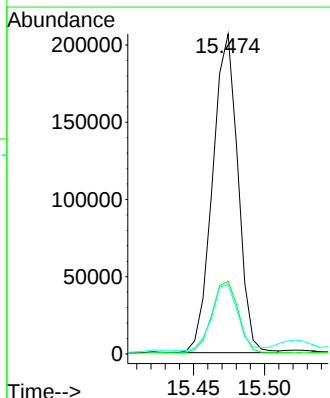
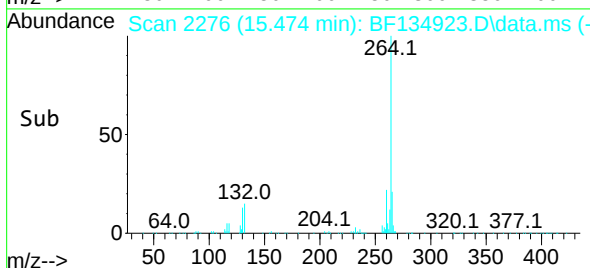
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

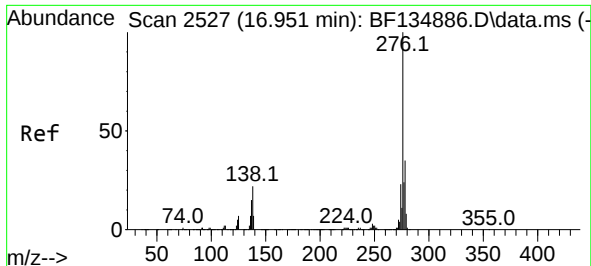


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.474 min Scan# 2276
Delta R.T. 0.023 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36



Tgt Ion:264 Resp: 256176
Ion Ratio Lower Upper
264 100
260 22.7 19.0 28.6
265 21.6 17.1 25.7





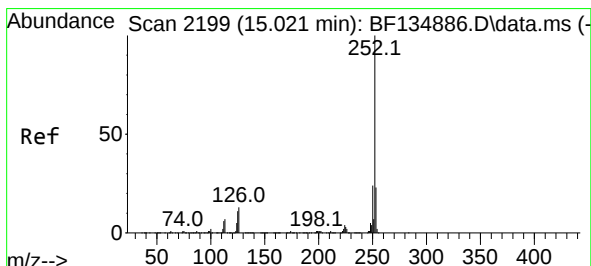
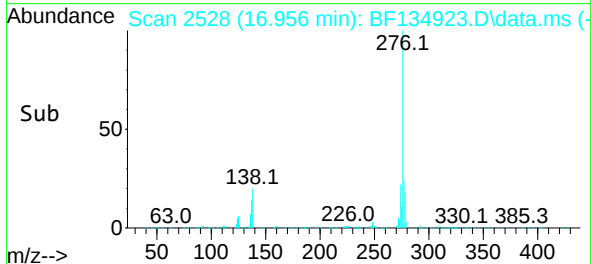
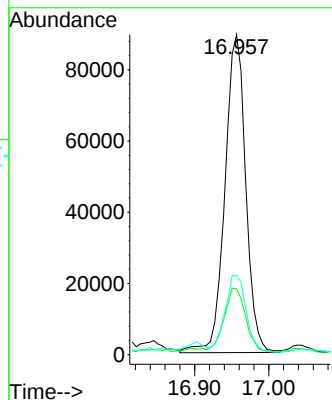
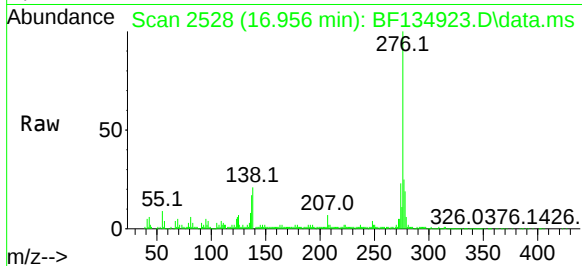
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.534 ng
RT: 16.956 min Scan# 2170
Delta R.T. 0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion:276 Resp: 174570
Ion Ratio Lower Upper
276 100
138 20.6 19.7 29.5
277 24.1 20.1 30.1

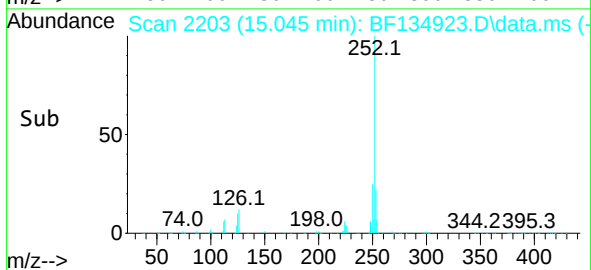
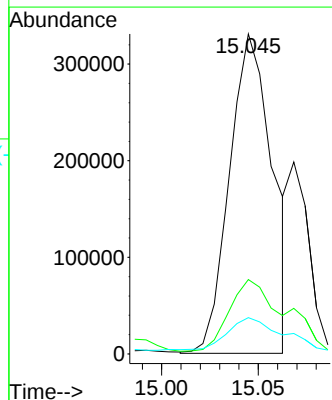
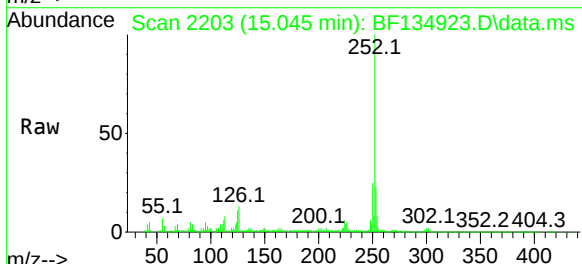
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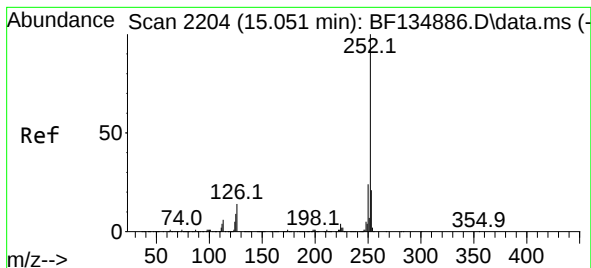
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#88
Benzo(b)fluoranthene
Concen: 35.374 ng m
RT: 15.045 min Scan# 2203
Delta R.T. 0.023 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

Tgt Ion:252 Resp: 511264
Ion Ratio Lower Upper
252 100
253 23.3 18.1 27.1
125 11.4 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 10.305 ng m

RT: 15.068 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:252 Resp: 146258

Ion Ratio Lower Upper

252 100

253 23.7 17.1 25.7

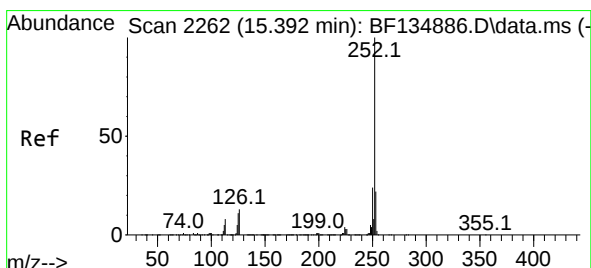
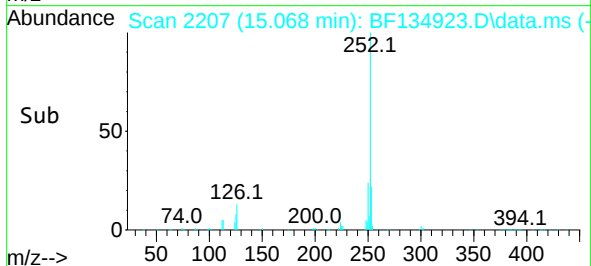
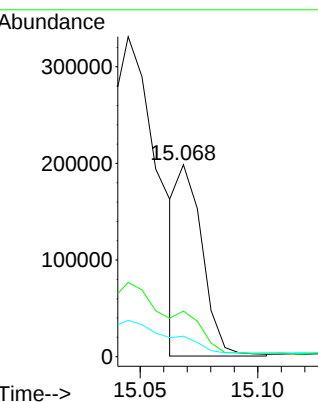
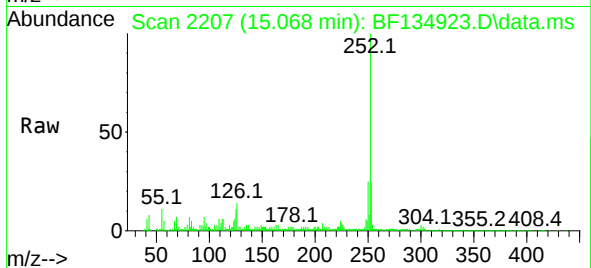
125 10.7 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/25/2023

Supervised By :mohammad ahmed 08/25/2023



#90

Benzo(a)pyrene

Concen: 22.755 ng

RT: 15.410 min Scan# 2265

Delta R.T. 0.018 min

Lab File: BF134923.D

Acq: 24 Aug 2023 14:36

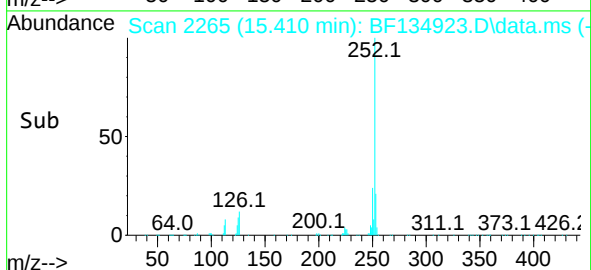
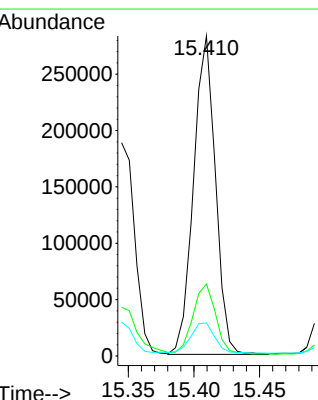
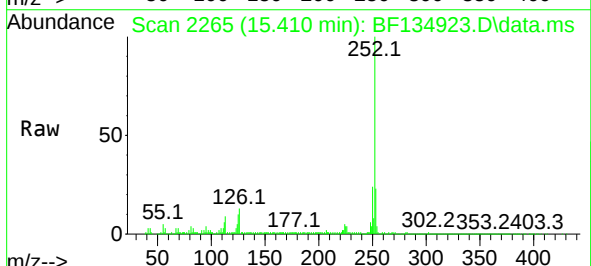
Tgt Ion:252 Resp: 328324

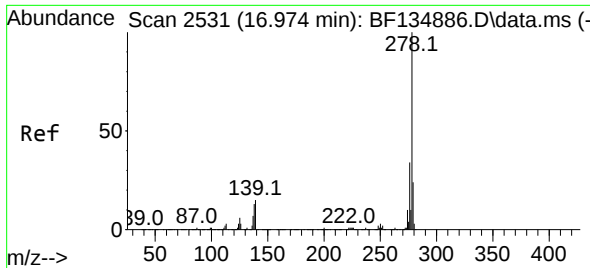
Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

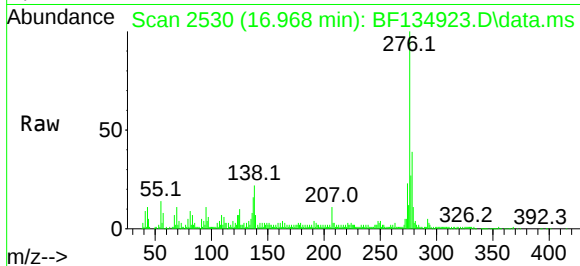
125 10.4 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 2.945 ng
RT: 16.968 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36

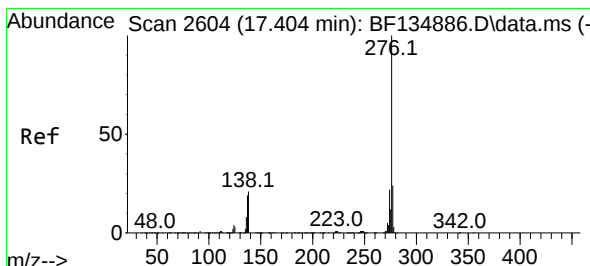
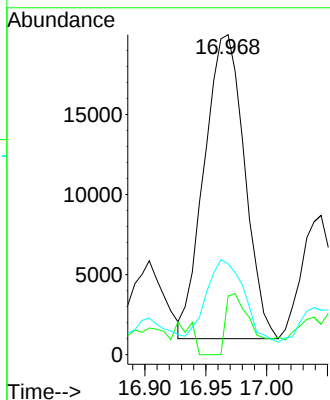
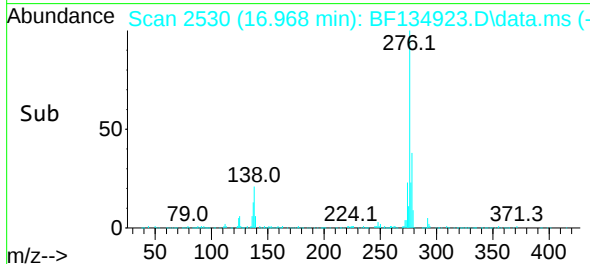
Instrument :
BNA_F
ClientSampleId :
WC-1



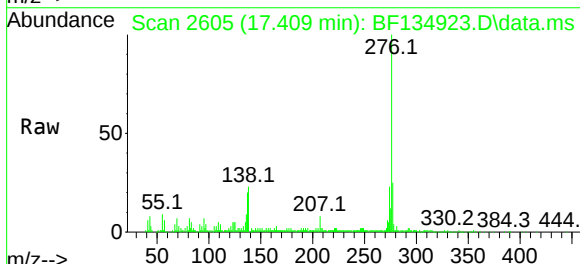
Tgt Ion: 278 Resp: 43638
Ion Ratio Lower Upper
278 100
139 18.4 12.2 18.4
279 28.4 19.1 28.7

Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 08/25/2023
Supervised By : mohammad ahmed 08/25/2023



#92
Benzo(g,h,i)perylene
Concen: 9.818 ng
RT: 17.409 min Scan# 2605
Delta R.T. 0.006 min
Lab File: BF134923.D
Acq: 24 Aug 2023 14:36



Tgt Ion: 276 Resp: 148906
Ion Ratio Lower Upper
276 100
277 24.6 19.2 28.8
138 22.7 17.0 25.6

