

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101123\
 Data File : BF135722.D
 Acq On : 11 Oct 2023 19:47
 Operator : CG\JU
 Sample : 04808-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-100623

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/12/2023
 Supervised By :mohammad ahmed 10/13/2023

Quant Time: Oct 12 00:51:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	101776	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	371486	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	145674	20.000	ng	0.00
64) Phenanthrene-d10	11.274	188	251543	20.000	ng	0.00
76) Chrysene-d12	13.939	240	184688	20.000	ng	0.00
86) Perylene-d12	15.409	264	168717	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	549405	87.798	ng	0.00
7) Phenol-d6	6.392	99	654353	82.238	ng	0.00
23) Nitrobenzene-d5	7.304	82	406919	59.511	ng	0.00
42) 2,4,6-Tribromophenol	10.574	330	110495	76.327	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	665068	68.880	ng	0.00
79) Terphenyl-d14	12.868	244	627006	52.628	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	103756	5.748	ng	98
37) 2-Methylnaphthalene	8.733	142	38953	3.211	ng	96
38) 1-Methylnaphthalene	8.833	142	37046	3.261	ng	98
49) Acenaphthylene	9.639	152	40540	3.003	ng	98
52) Acenaphthene	9.804	154	85229	10.688	ng	96
55) Dibenzofuran	9.980	168	105841	8.698	ng	# 96
58) Fluorene	10.327	166	146617	15.673	ng	99
71) Phenanthrene	11.298	178	948337	79.713	ng	99
72) Anthracene	11.351	178	369631	30.226	ng	99
73) Carbazole	11.516	167	69508	6.244	ng	98
75) Fluoranthene	12.504	202	1545998	124.713	ng	98
78) Pyrene	12.733	202	1428861	81.261	ng	99
81) Benzo(a)anthracene	13.927	228	762709	63.955	ng	98
83) Chrysene	13.968	228	614192	51.800	ng	97
87) Indeno(1,2,3-cd)pyrene	16.909	276	252357	22.813	ng	96
88) Benzo(b)fluoranthene	14.986	252	666060m	72.927	ng	
89) Benzo(k)fluoranthene	15.009	252	206099m	22.844	ng	
90) Benzo(a)pyrene	15.351	252	481976	55.337	ng	99
91) Dibenzo(a,h)anthracene	16.915	278	64725m	7.151	ng	
92) Benzo(g,h,i)perylene	17.362	276	223156	23.607	ng	98

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

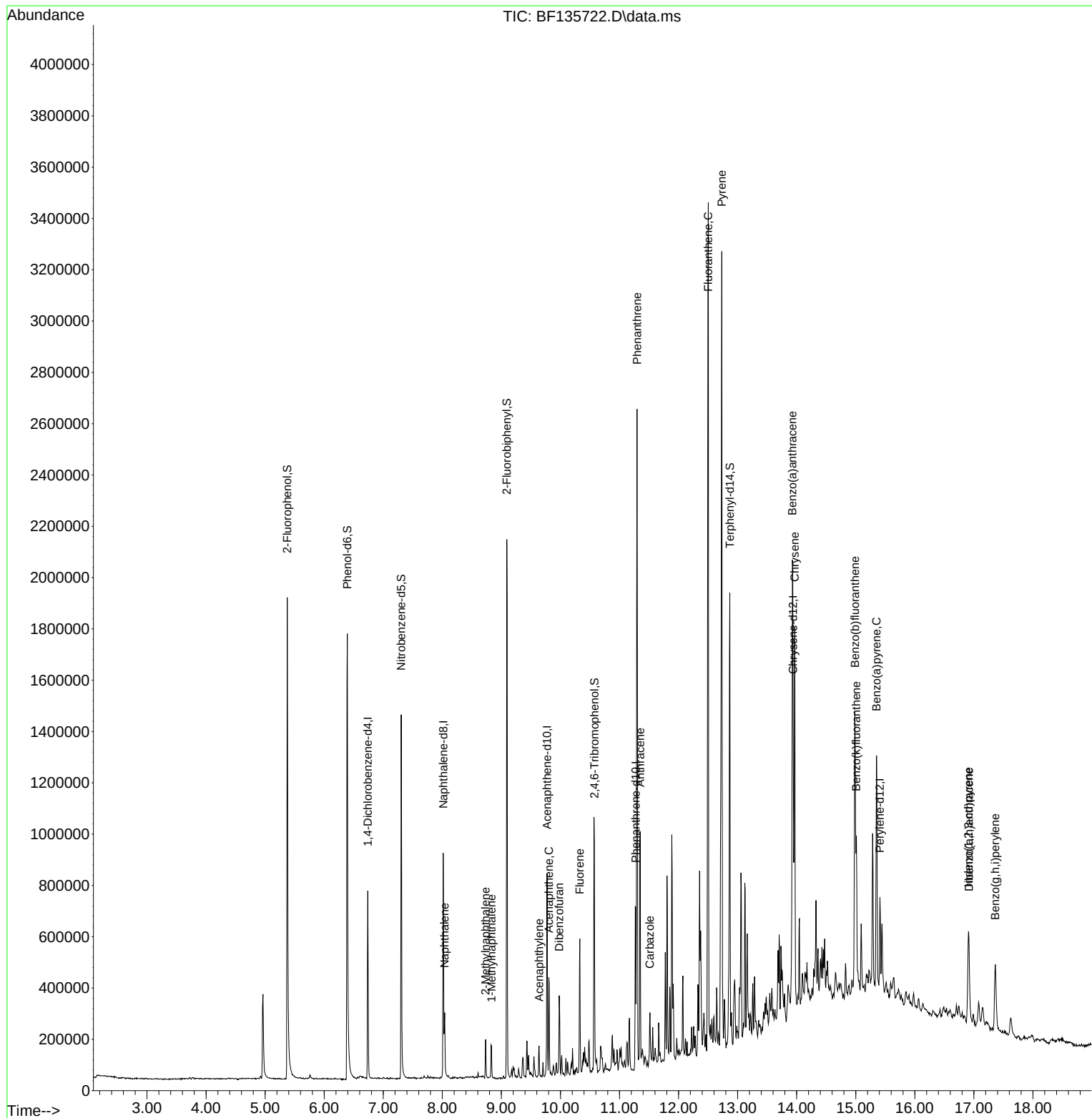
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101123\
Data File : BF135722.D
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ALS Vial : 21 Sample Multiplier: 1

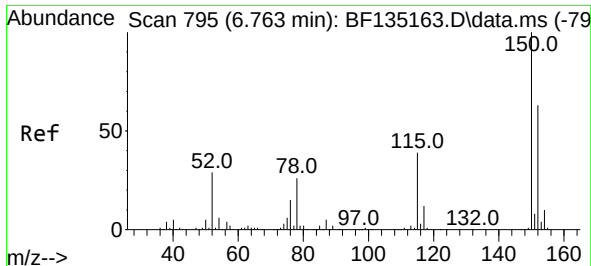
Instrument :
BNA_F
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SU-03-100623

Quant Time: Oct 12 00:51:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 11 02:43:17 2023
Response via : Initial Calibration

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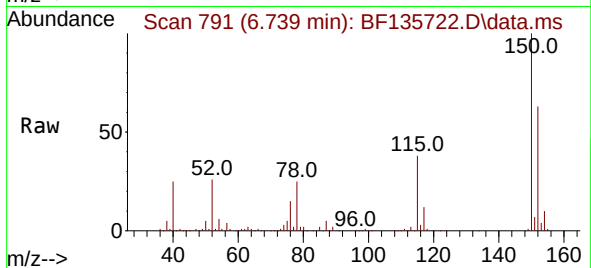
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

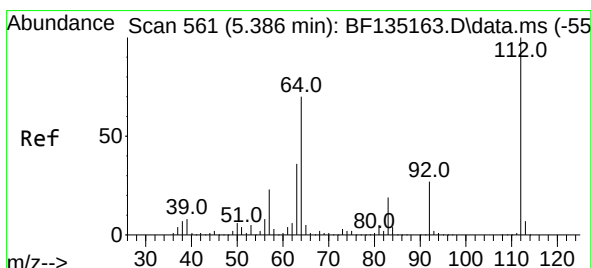
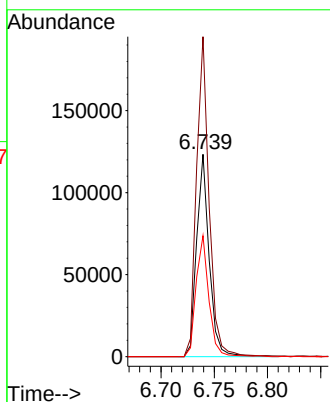
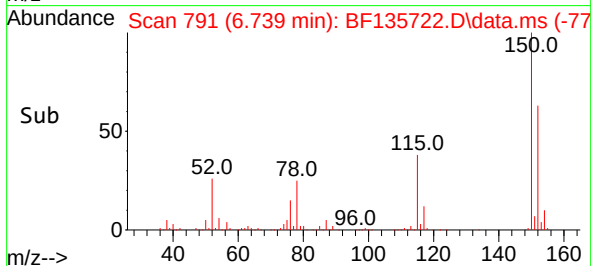
Instrument :
BNA_F
ClientSampleId :
SU-03-100623



Tgt Ion:152 Resp: 101770
Ion Ratio Lower Upper
152 100
150 158.1 127.8 191.6
115 59.8 49.8 74.8

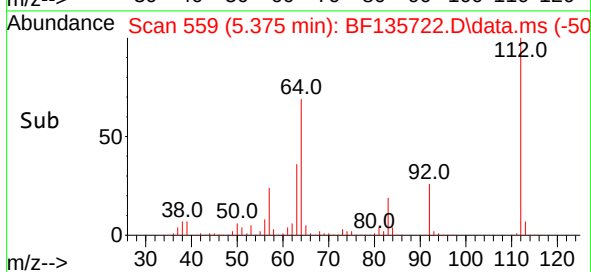
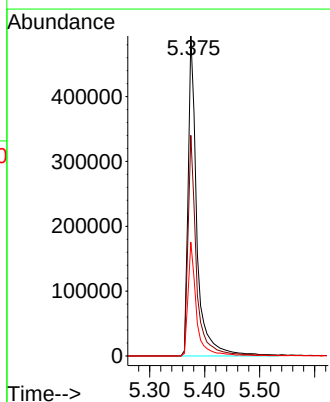
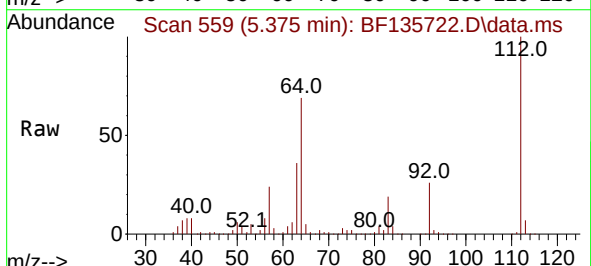
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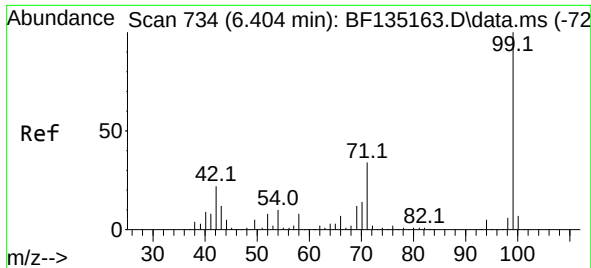
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023



#5
2-Fluorophenol
Concen: 87.798 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Tgt Ion:112 Resp: 549405
Ion Ratio Lower Upper
112 100
64 69.0 55.9 83.9
63 35.5 29.0 43.6





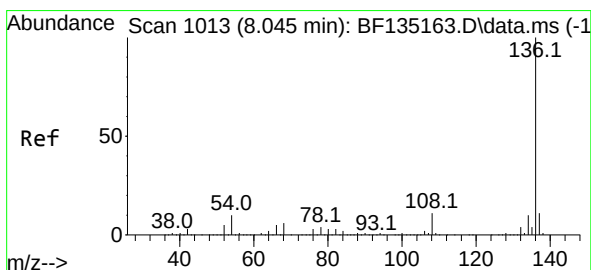
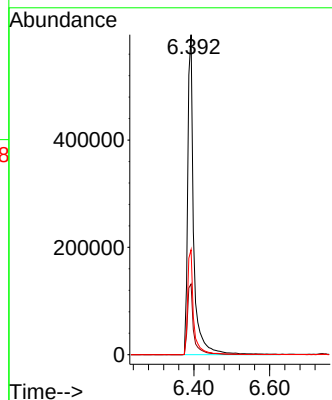
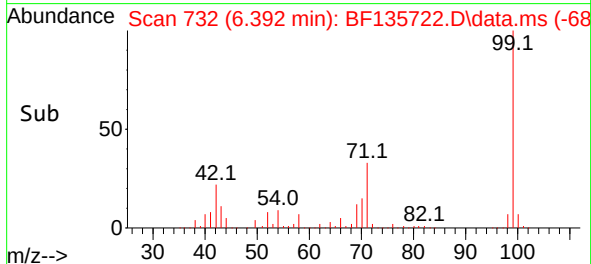
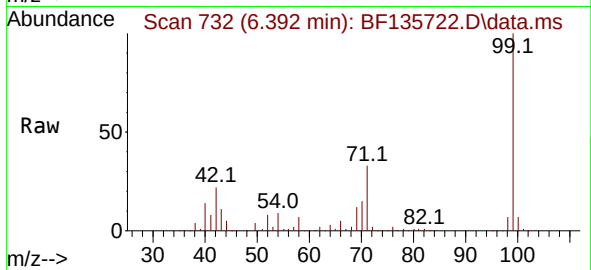
#7
Phenol-d6
Concen: 82.238 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

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Tgt Ion: 99 Resp: 65435
Ion Ratio Lower Upper
99 100
42 22.1 17.9 26.9
71 32.8 27.0 40.6

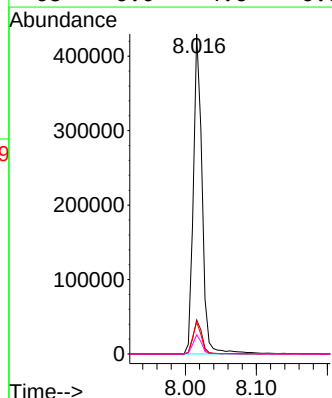
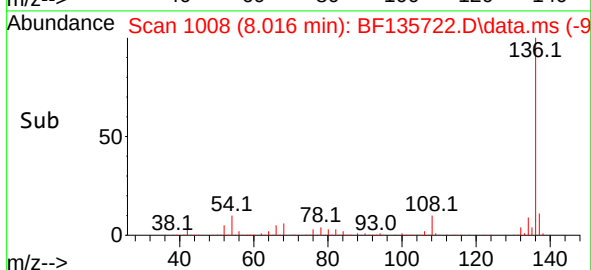
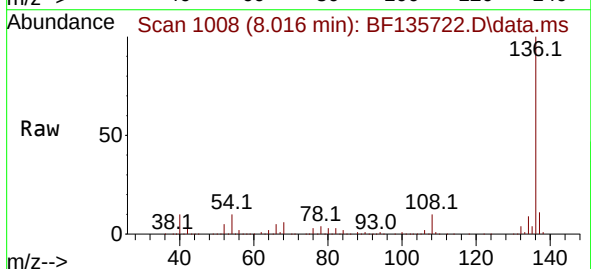
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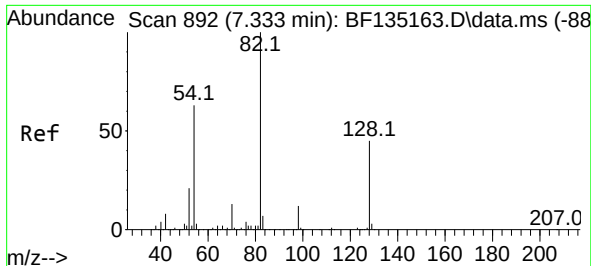
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Tgt Ion:136 Resp: 371486
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 9.9 7.7 11.5
68 6.0 4.6 6.8





#23

Nitrobenzene-d5

Concen: 59.511 ng

RT: 7.304 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF135722.D

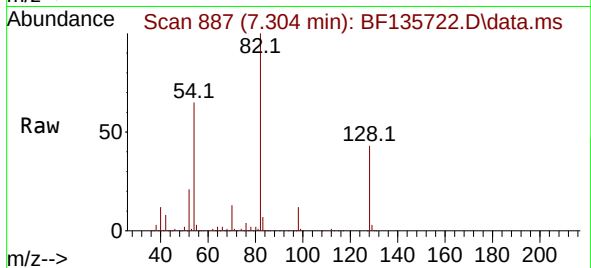
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

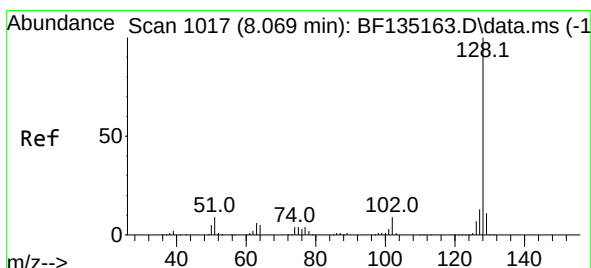
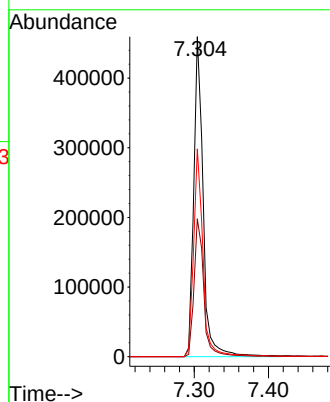
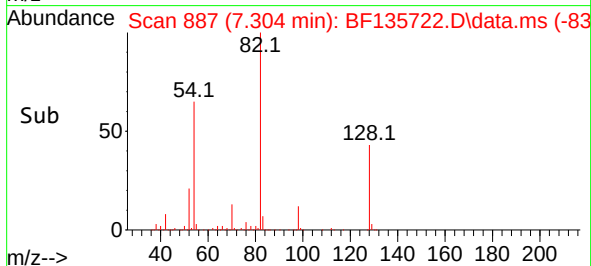
SU-03-100623



Tgt Ion:	82	Resp:	406919
Ion	Ratio	Lower	Upper
82	100		
128	43.1	35.8	53.6
54	64.9	50.6	76.0

Manual Integrations
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Reviewed By :Yogesh Patel 10/12/2023
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#31

Naphthalene

Concen: 5.748 ng

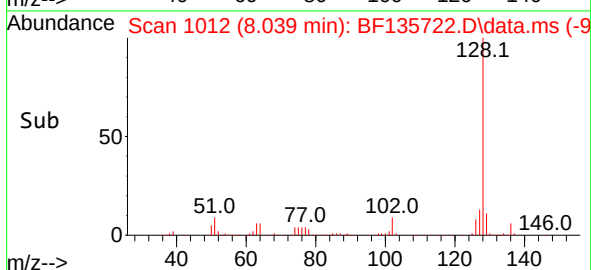
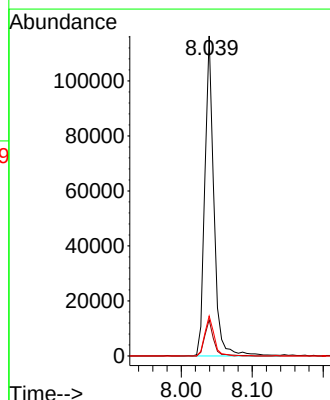
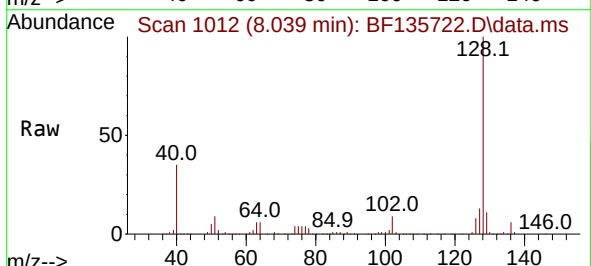
RT: 8.039 min Scan# 1012

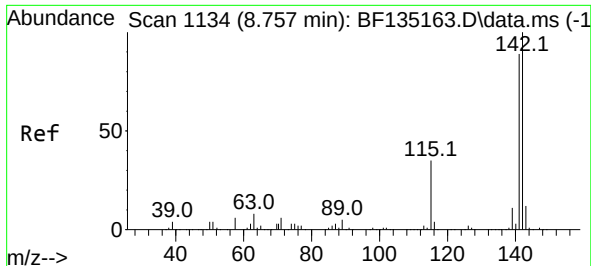
Delta R.T. -0.000 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Tgt Ion:	128	Resp:	103756
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.7	13.1
127	12.5	10.7	16.1





#37
2-Methylnaphthalene
Concen: 3.211 ng
RT: 8.733 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

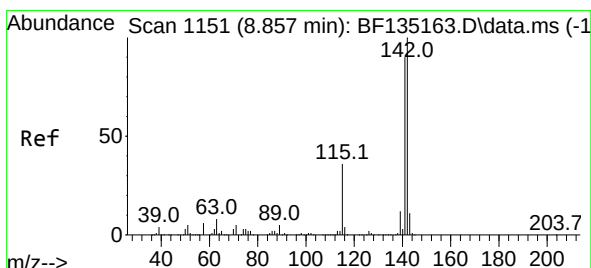
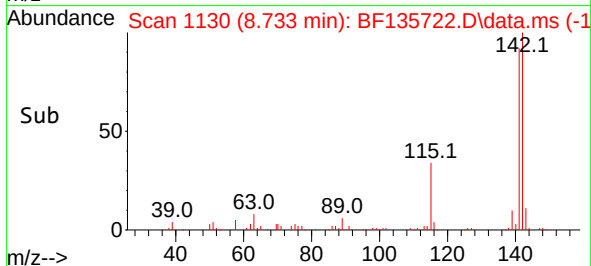
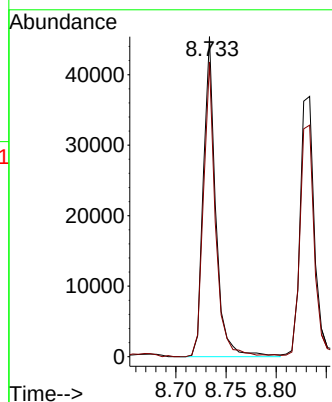
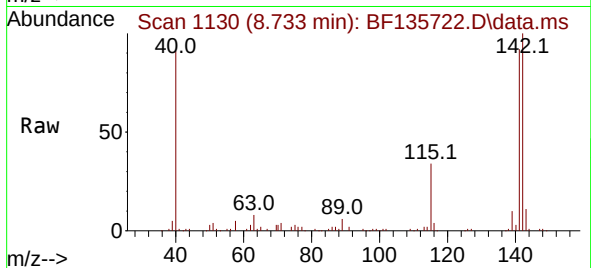
SU-03-100623

Tgt Ion:142 Resp: 3895
Ion Ratio Lower Upper
142 100
141 92.1 71.0 106.6

Manual Integrations

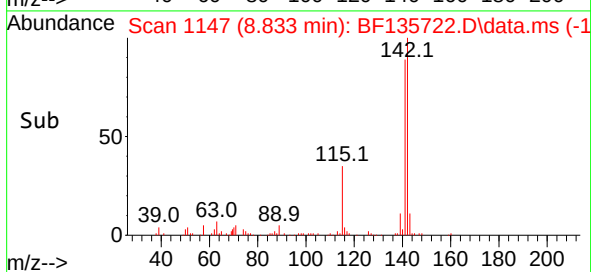
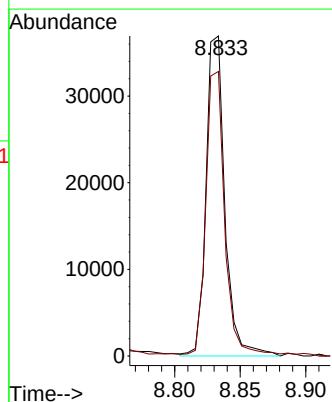
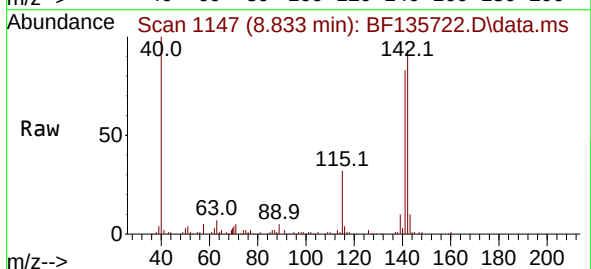
APPROVED

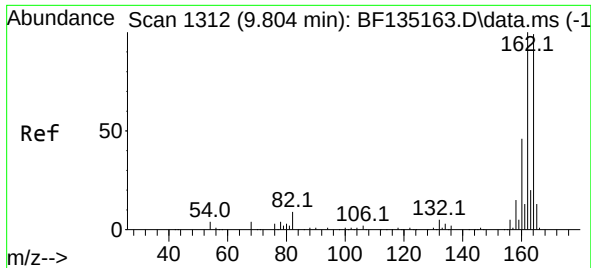
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023



#38
1-Methylnaphthalene
Concen: 3.261 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Tgt Ion:142 Resp: 37046
Ion Ratio Lower Upper
142 100
141 88.9 72.4 108.6





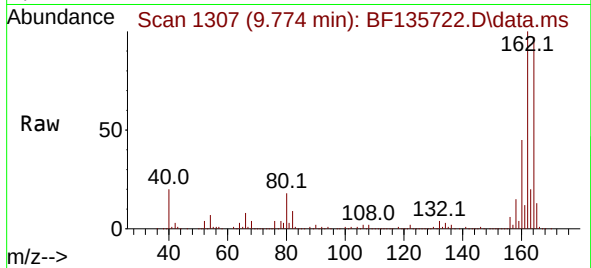
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623



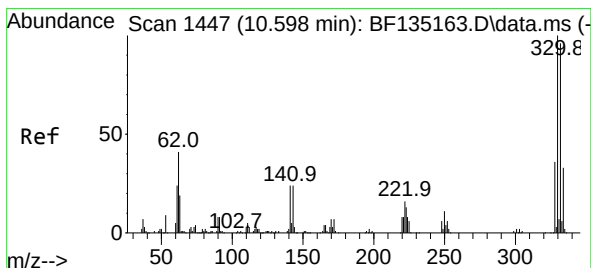
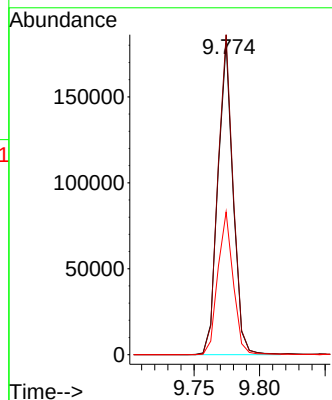
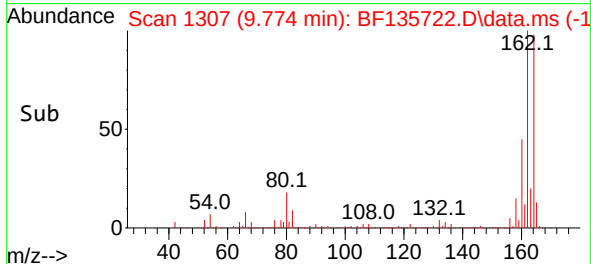
Tgt Ion:164 Resp: 145674
Ion Ratio Lower Upper
164 100
162 102.6 81.0 121.4
160 45.7 37.0 55.4

Manual Integrations

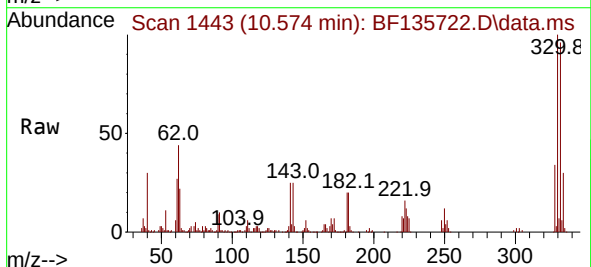
APPROVED

Reviewed By :Yogesh Patel 10/12/2023

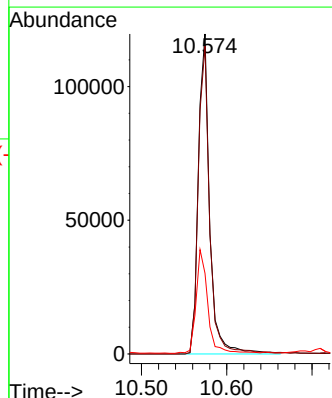
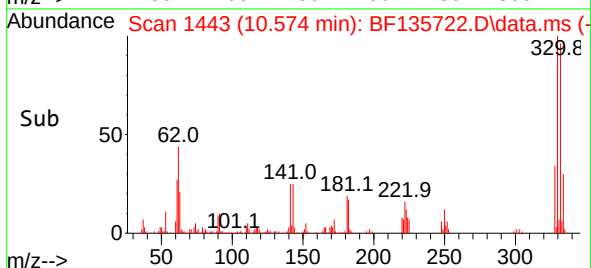
Supervised By :mohammad ahmed 10/13/2023

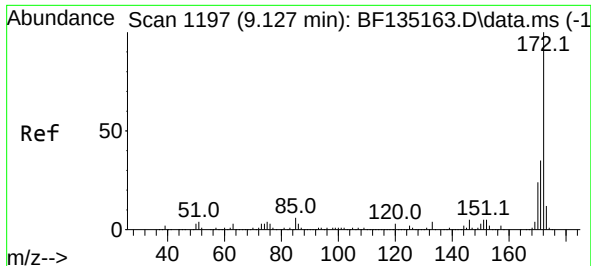


#42
2,4,6-Tribromophenol
Concen: 76.327 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47



Tgt Ion:330 Resp: 110495
Ion Ratio Lower Upper
330 100
332 97.6 77.3 115.9
141 33.2 25.8 38.8





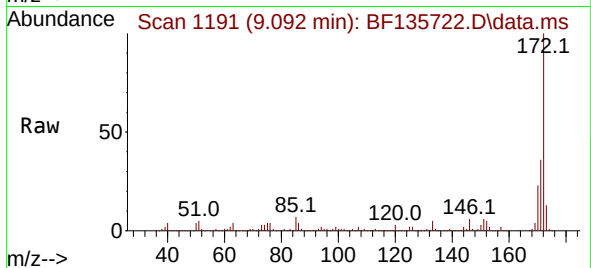
#45
2-Fluorobiphenyl
Concen: 68.880 ng
RT: 9.092 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

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SU-03-100623



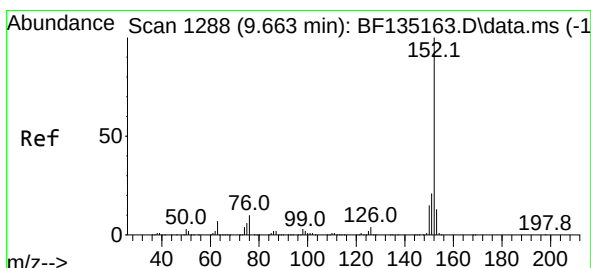
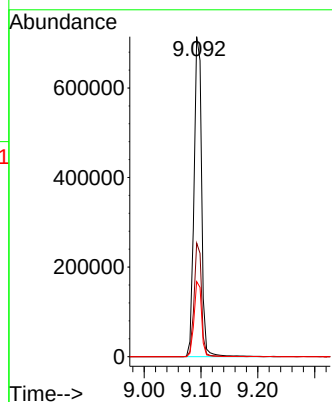
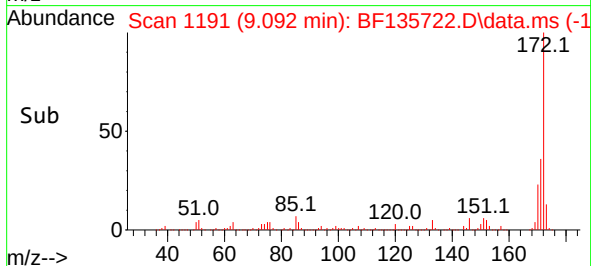
Tgt Ion:172 Resp: 665068
Ion Ratio Lower Upper
172 100
171 35.5 28.4 42.6
170 23.4 19.0 28.4

Manual Integrations

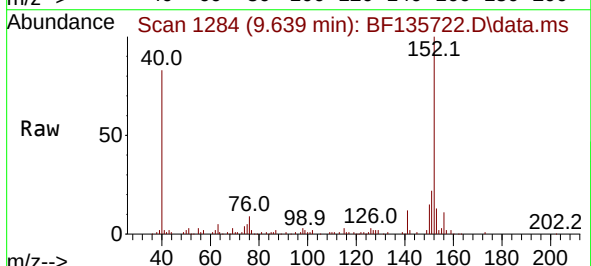
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Reviewed By :Yogesh Patel 10/12/2023

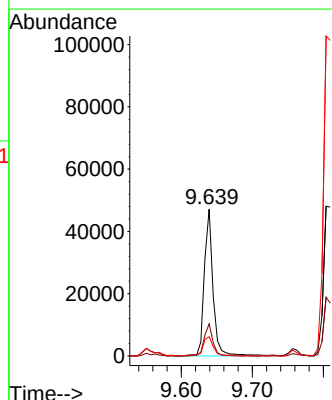
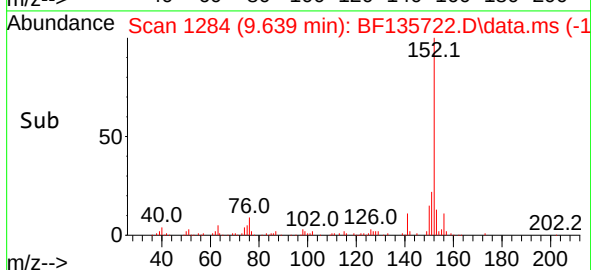
Supervised By :mohammad ahmed 10/13/2023

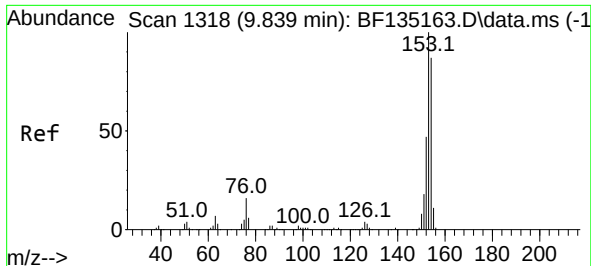


#49
Acenaphthylene
Concen: 3.003 ng
RT: 9.639 min Scan# 1284
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47



Tgt Ion:152 Resp: 40540
Ion Ratio Lower Upper
152 100
151 21.9 16.4 24.6
153 13.0 10.4 15.6





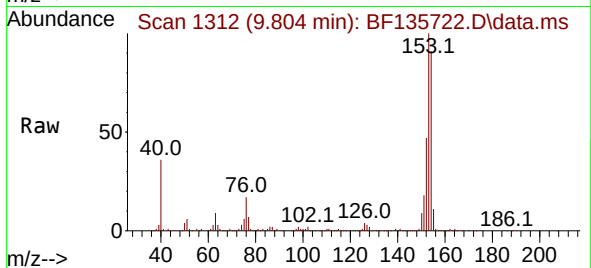
#52
Acenaphthene
Concen: 10.688 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

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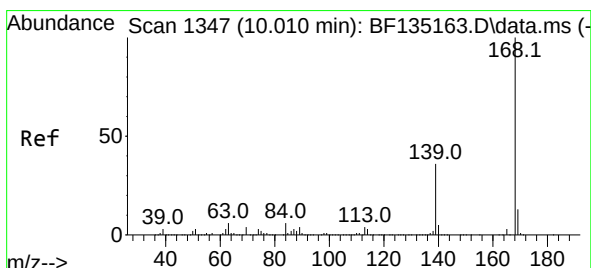
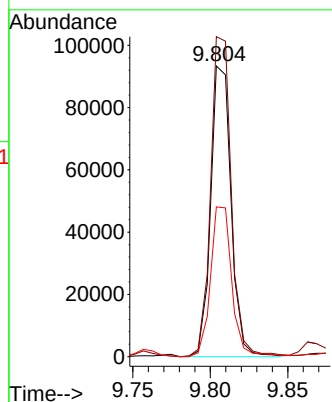
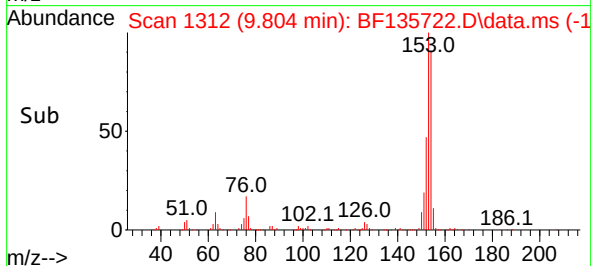


Tgt Ion:154 Resp: 85229
Ion Ratio Lower Upper
154 100
153 110.1 92.1 138.1
152 51.5 43.1 64.7

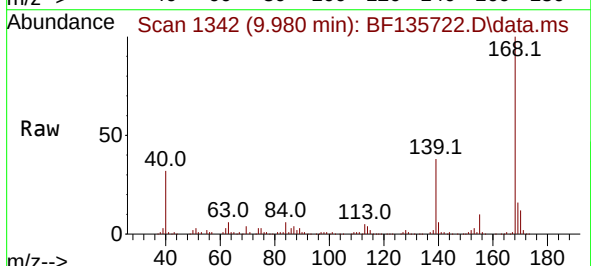
Manual Integrations

APPROVED

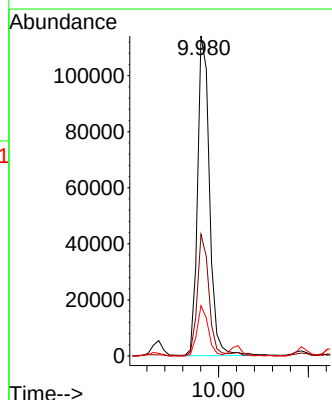
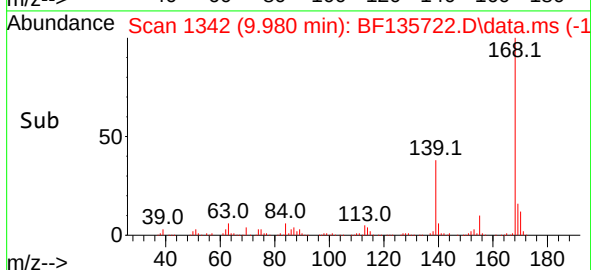
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023

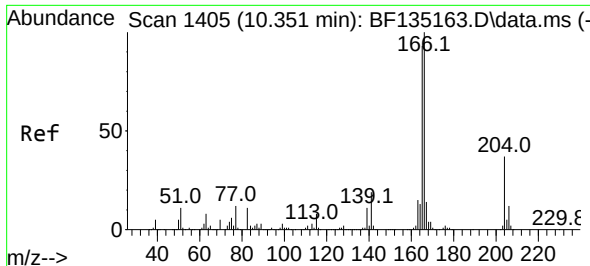


#55
Dibenzofuran
Concen: 8.698 ng
RT: 9.980 min Scan# 1342
Delta R.T. -0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47



Tgt Ion:168 Resp: 105841
Ion Ratio Lower Upper
168 100
139 38.0 29.0 43.6
169 15.7 10.4 15.6#





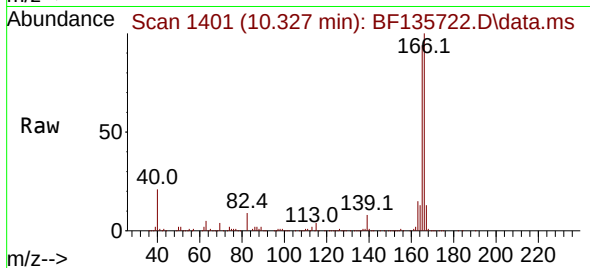
#58
Fluorene
Concen: 15.673 ng
RT: 10.327 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623

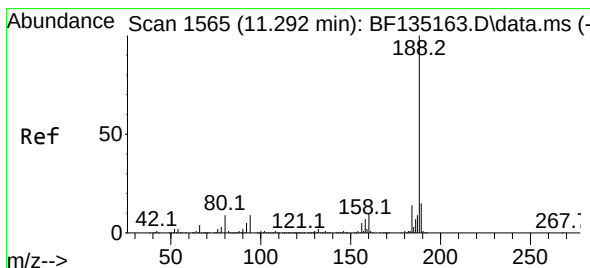
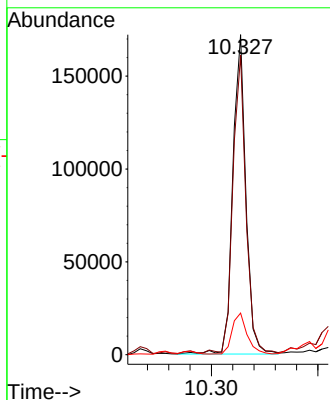
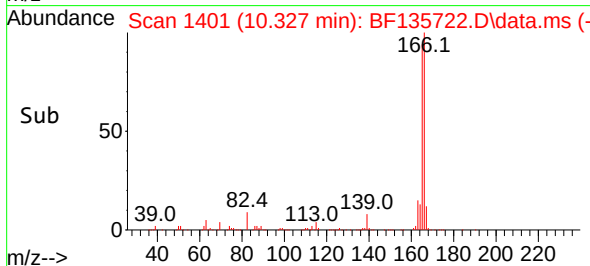


Tgt Ion:166 Resp: 14661
Ion Ratio Lower Upper
166 100
165 93.6 74.3 111.5
167 13.0 10.9 16.3

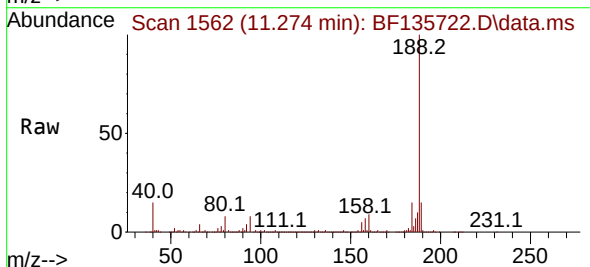
Manual Integrations

APPROVED

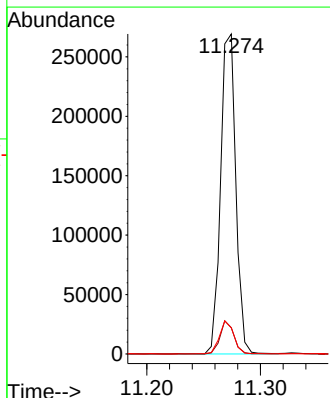
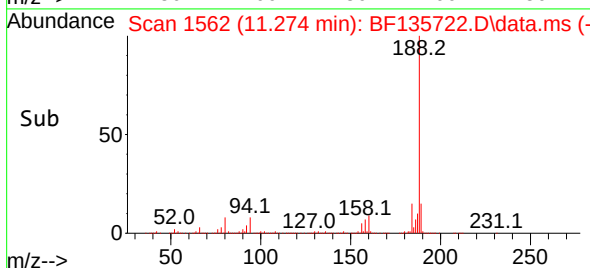
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023

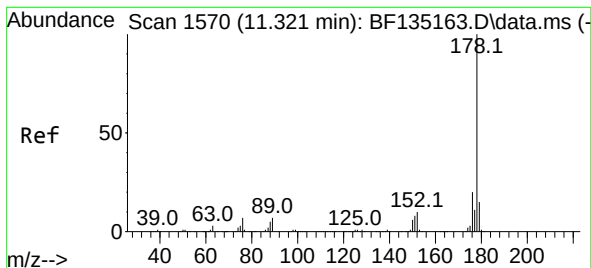


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.274 min Scan# 1562
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47



Tgt Ion:188 Resp: 251543
Ion Ratio Lower Upper
188 100
94 8.2 7.0 10.6
80 8.1 7.5 11.3





#71

Phenanthrene

Concen: 79.713 ng

RT: 11.298 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623

Tgt Ion:178 Resp: 94833

Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

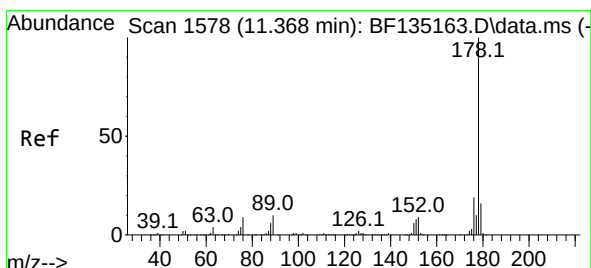
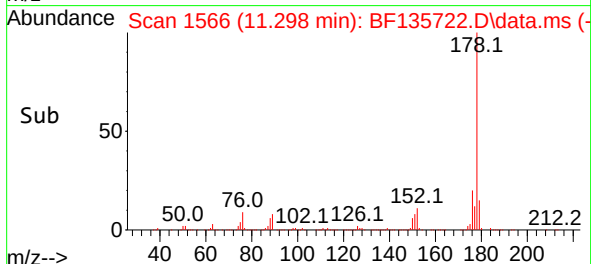
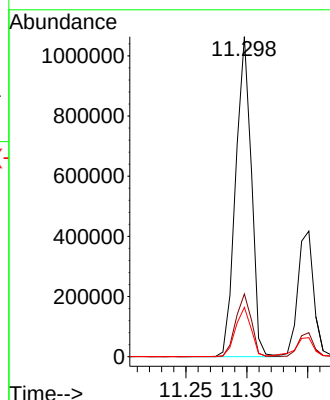
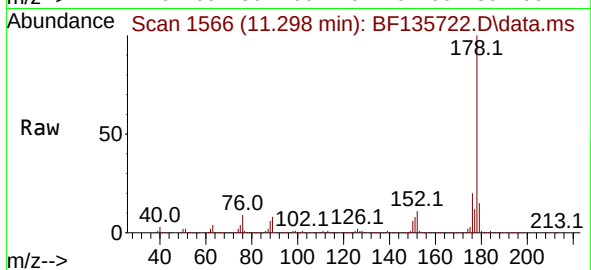
179 15.4 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/12/2023

Supervised By :mohammad ahmed 10/13/2023



#72

Anthracene

Concen: 30.226 ng

RT: 11.351 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

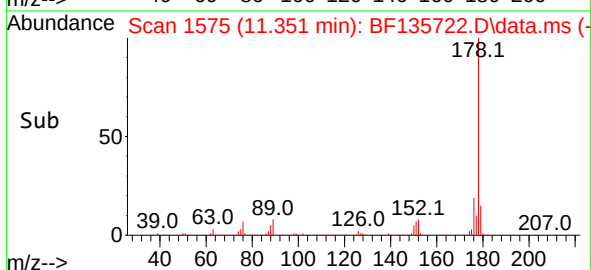
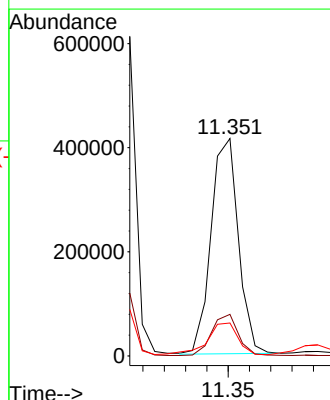
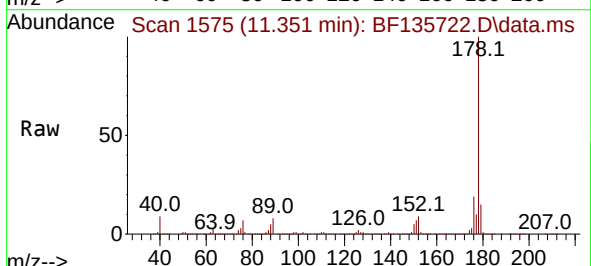
Tgt Ion:178 Resp: 369631

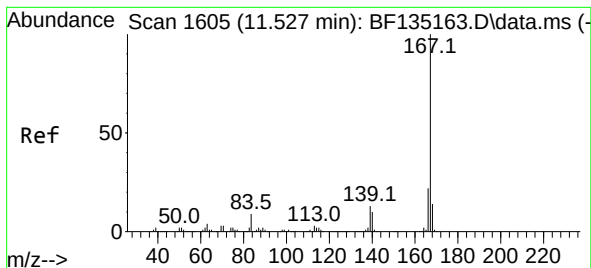
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.1 12.6 19.0





#73

Carbazole

Concen: 6.244 ng

RT: 11.516 min Scan# 1603

Delta R.T. -0.000 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623

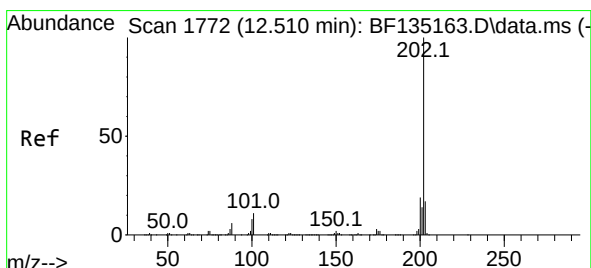
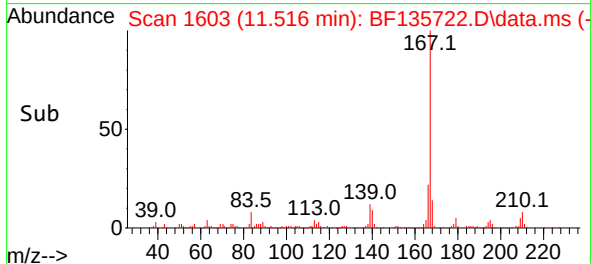
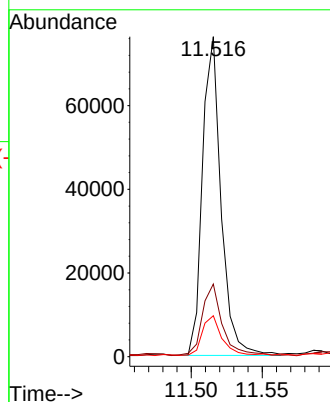
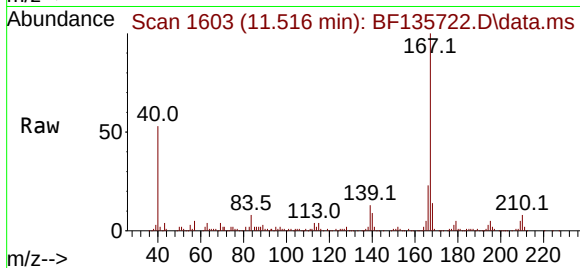
Tgt Ion:167	Resp:	69508
Ion Ratio	Lower	Upper
167	100	
166	22.7	17.4 26.0
139	12.8	10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/12/2023

Supervised By :mohammad ahmed 10/13/2023



#75

Fluoranthene

Concen: 124.713 ng

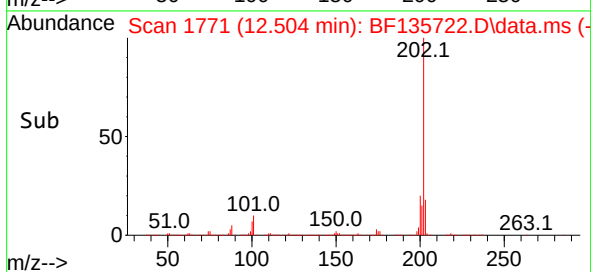
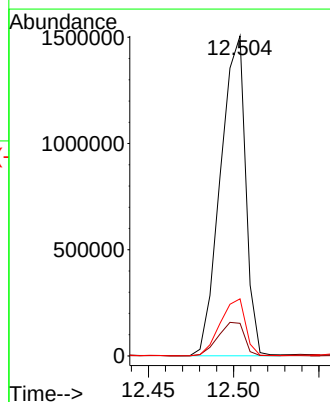
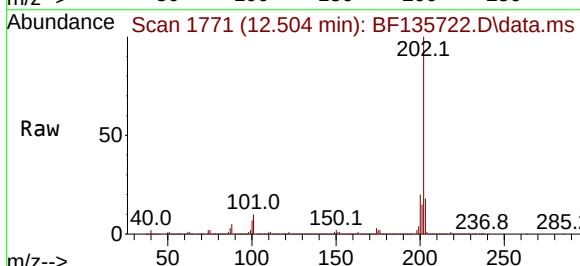
RT: 12.504 min Scan# 1771

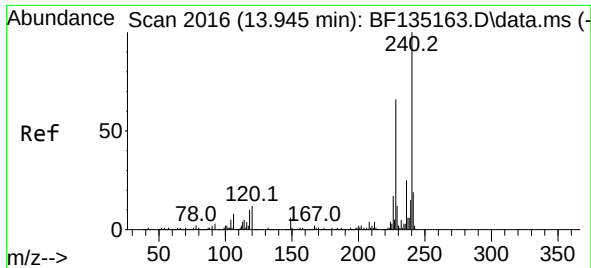
Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Tgt Ion:202	Resp:	1545998
Ion Ratio	Lower	Upper
202	100	
101	10.2	0.0 31.3
203	17.9	0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2016
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

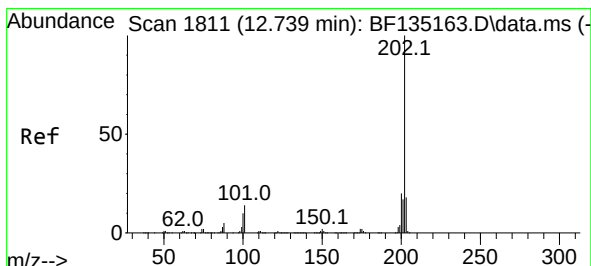
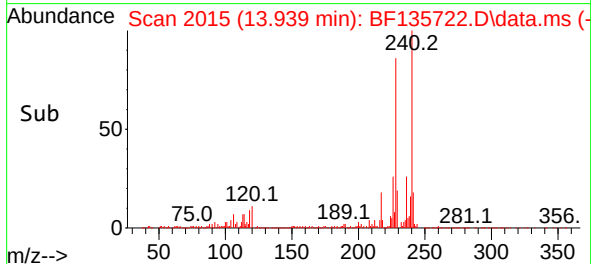
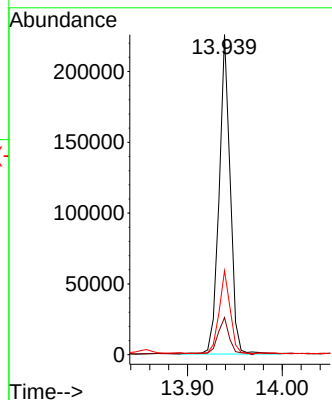
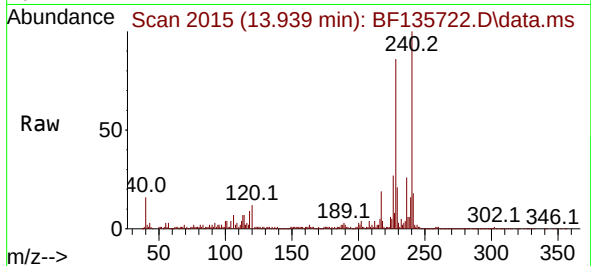
SU-03-100623

Tgt Ion:240 Resp: 184688
Ion Ratio Lower Upper
240 100
120 11.6 9.4 14.2
236 26.3 19.8 29.8

Manual Integrations

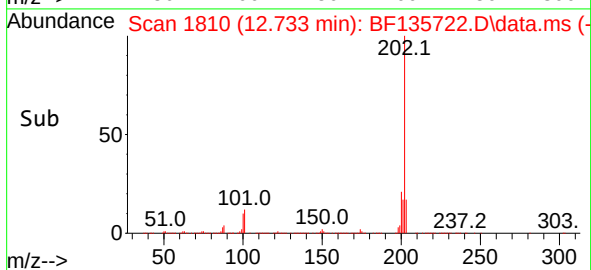
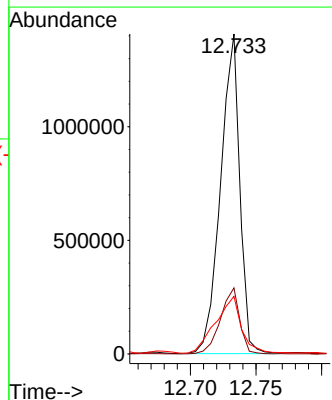
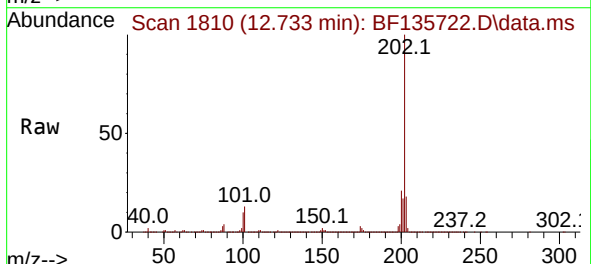
APPROVED

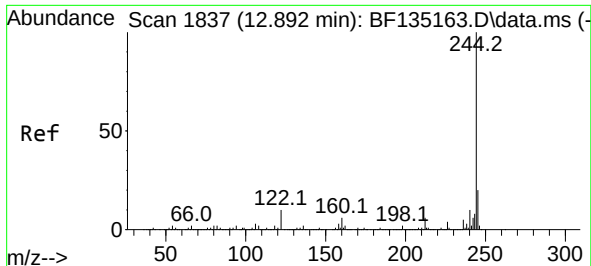
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023



#78
Pyrene
Concen: 81.261 ng
RT: 12.733 min Scan# 1810
Delta R.T. 0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Tgt Ion:202 Resp: 1428861
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 18.0 14.2 21.4





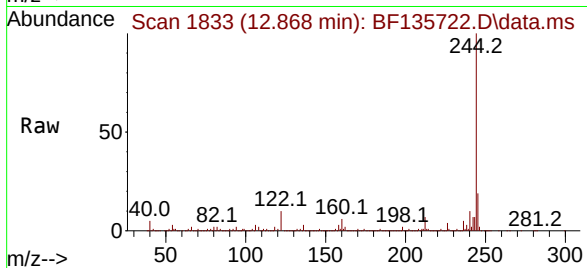
#79
Terphenyl-d14
Concen: 52.628 ng
RT: 12.868 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623

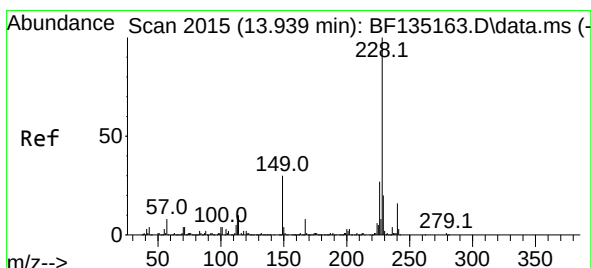
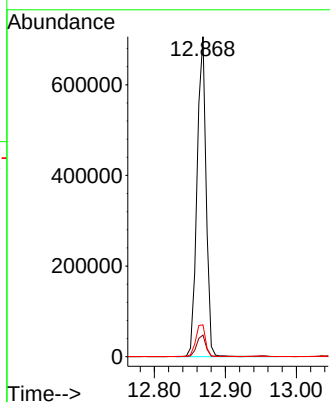
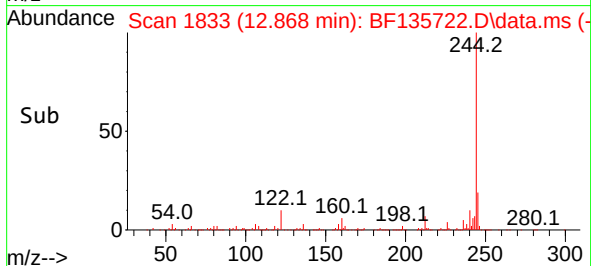


Tgt Ion:244 Resp: 627000
Ion Ratio Lower Upper
244 100
212 6.8 5.1 7.7
122 9.9 7.9 11.9

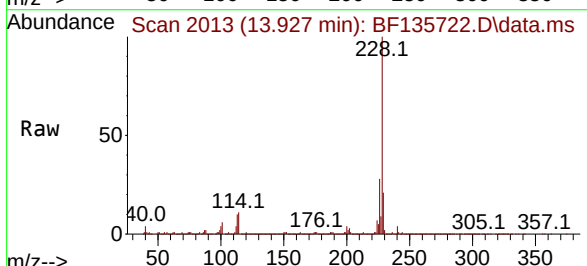
Manual Integrations

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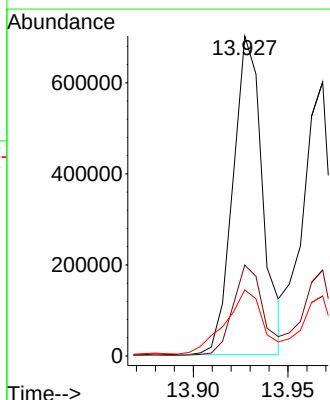
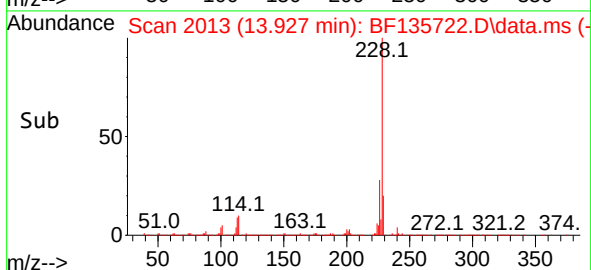
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023

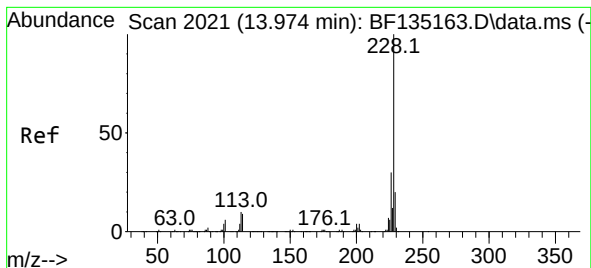


#81
Benzo(a)anthracene
Concen: 63.955 ng
RT: 13.927 min Scan# 2013
Delta R.T. -0.000 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47



Tgt Ion:228 Resp: 762709
Ion Ratio Lower Upper
228 100
226 28.4 21.7 32.5
229 20.7 15.8 23.8





#83

Chrysene

Concen: 51.800 ng

RT: 13.968 min Scan# 2021

Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

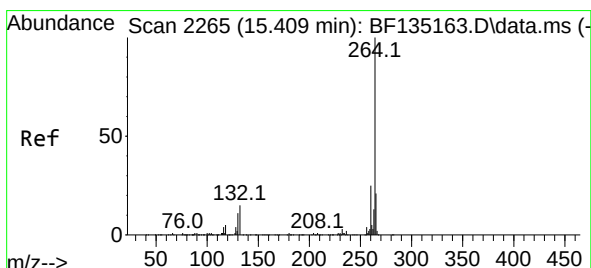
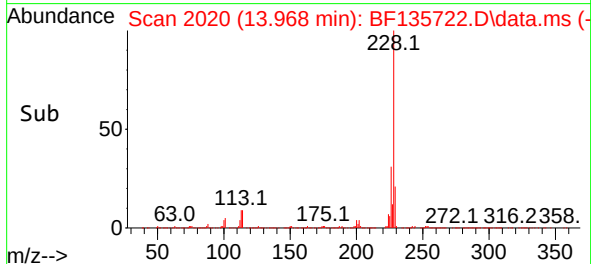
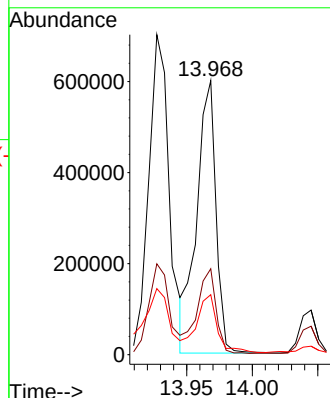
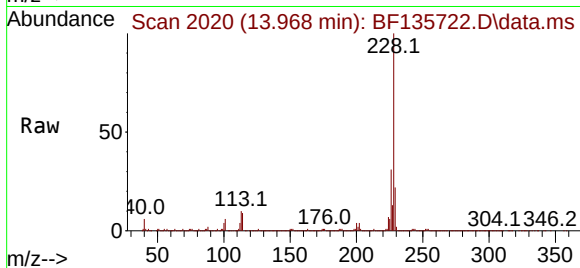
SU-03-100623

Tgt Ion:228 Resp: 61419
 Ion Ratio Lower Upper
 228 100
 226 31.3 24.3 36.5
 229 21.9 16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/12/2023
 Supervised By :mohammad ahmed 10/13/2023



#86

Perylene-d12

Concen: 20.000 ng

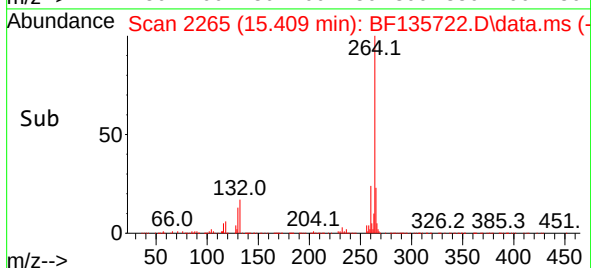
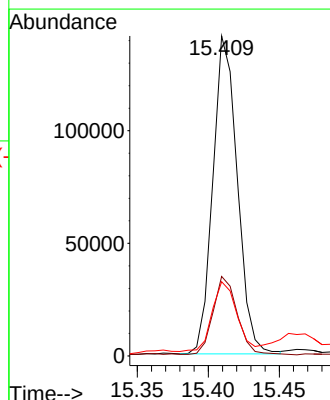
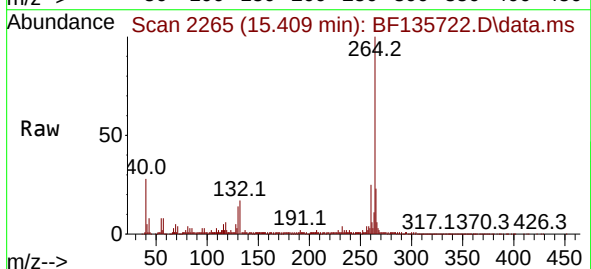
RT: 15.409 min Scan# 2265

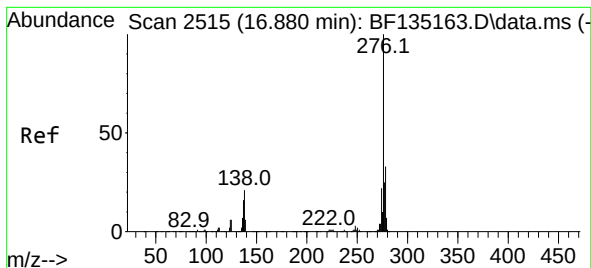
Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Tgt Ion:264 Resp: 168717
 Ion Ratio Lower Upper
 264 100
 260 24.8 19.8 29.6
 265 23.2 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 22.813 ng

RT: 16.909 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

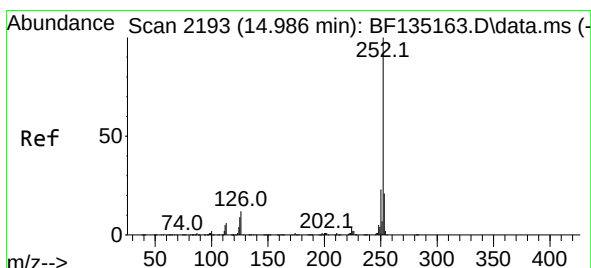
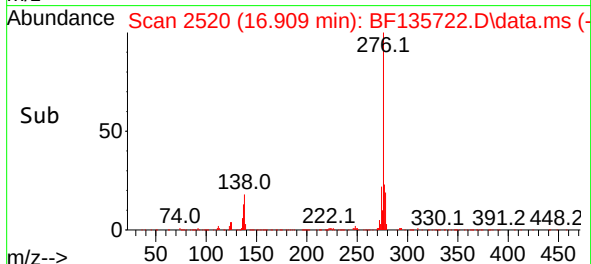
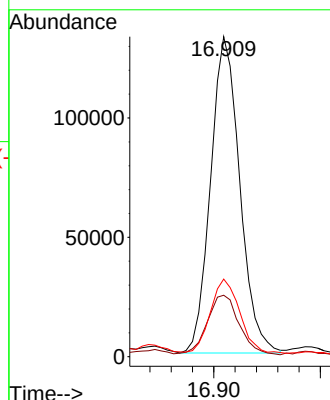
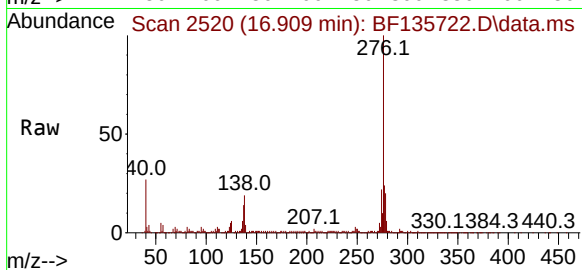
SU-03-100623

Tgt Ion:276 Resp: 25235
 Ion Ratio Lower Upper
 276 100
 138 20.7 19.2 28.8
 277 24.1 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/12/2023
 Supervised By :mohammad ahmed 10/13/2023



#88

Benzo(b)fluoranthene

Concen: 72.927 ng m

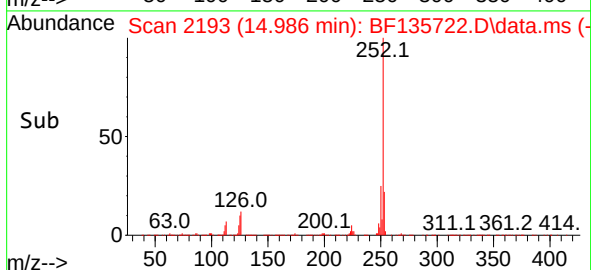
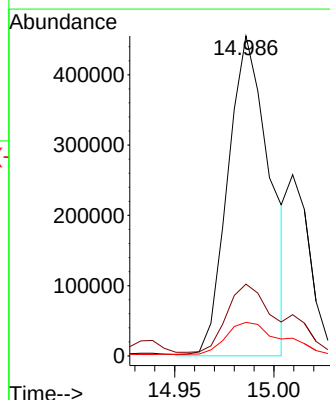
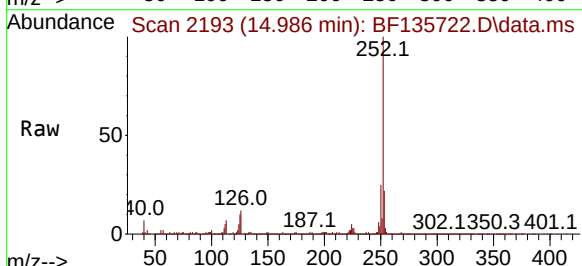
RT: 14.986 min Scan# 2193

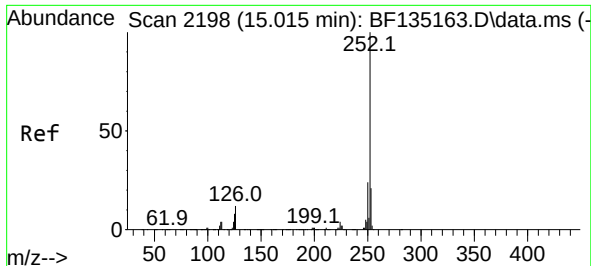
Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Tgt Ion:252 Resp: 666060
 Ion Ratio Lower Upper
 252 100
 253 22.5 17.2 25.8
 125 10.5 7.1 10.7





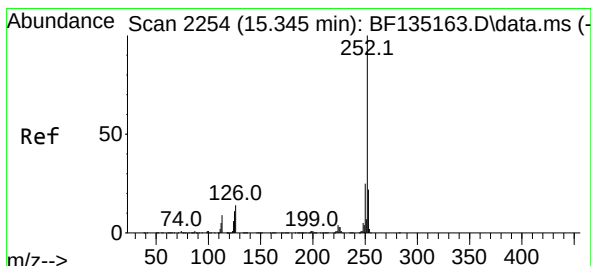
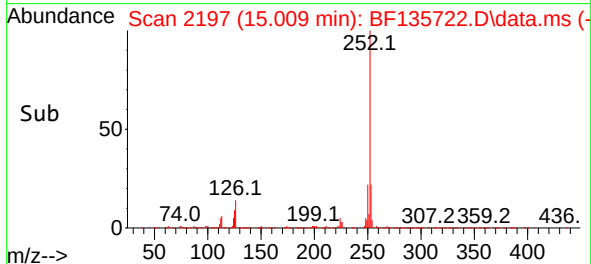
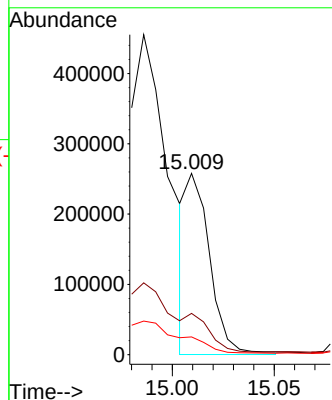
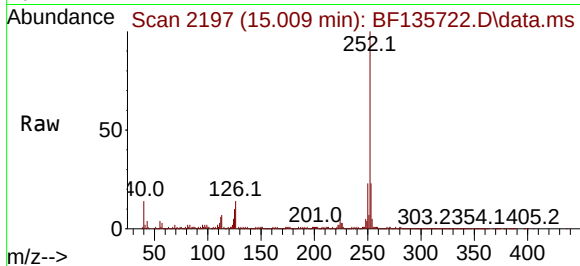
#89
Benzo(k)fluoranthene
Concen: 22.844 ng m
RT: 15.009 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Instrument :
BNA_F
ClientSampleId :
SU-03-100623

Tgt Ion:252 Resp: 206095
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 9.8 7.2 10.8

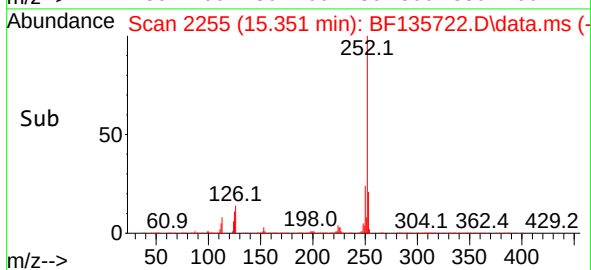
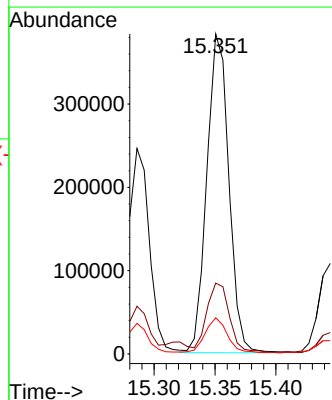
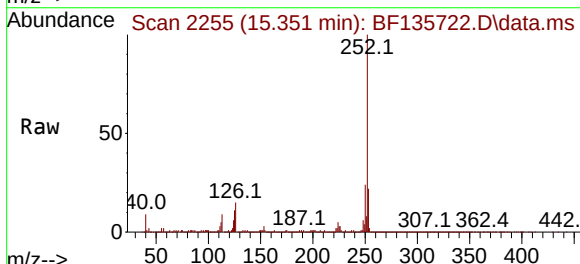
Manual Integrations
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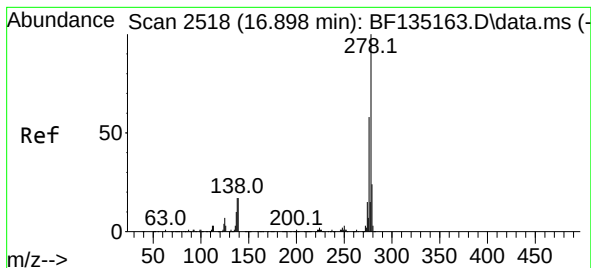
Reviewed By :Yogesh Patel 10/12/2023
Supervised By :mohammad ahmed 10/13/2023



#90
Benzo(a)pyrene
Concen: 55.337 ng
RT: 15.351 min Scan# 2255
Delta R.T. 0.006 min
Lab File: BF135722.D
Acq: 11 Oct 2023 19:47

Tgt Ion:252 Resp: 481976
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 11.3 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 7.151 ng m

RT: 16.915 min Scan# 2521

Delta R.T. 0.006 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Instrument :

BNA_F

ClientSampleId :

SU-03-100623

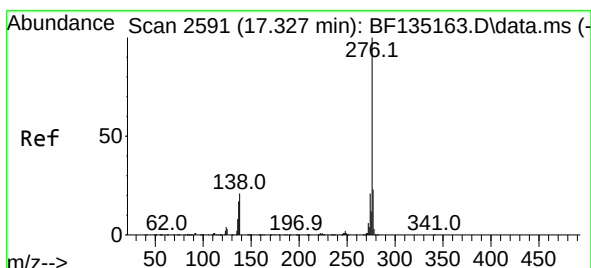
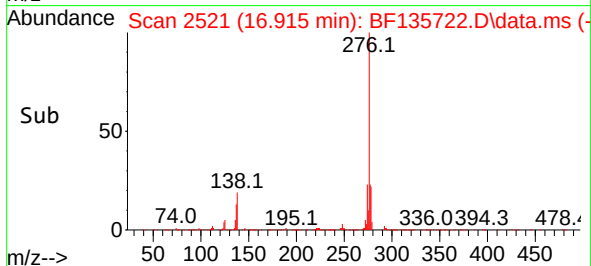
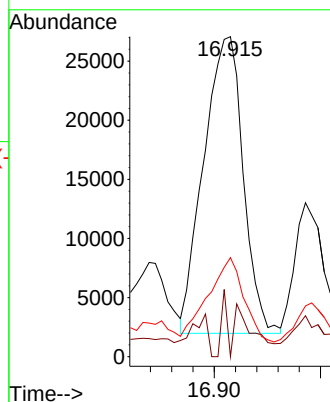
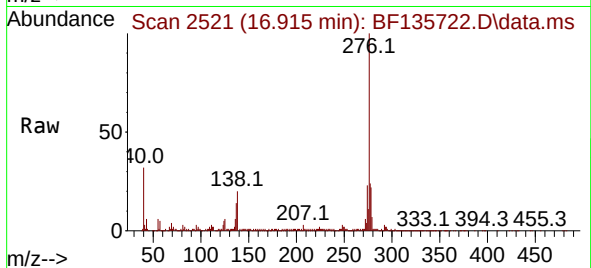
Tgt Ion:	278	Resp:	6472
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.4	20.0
279	31.0	19.0	28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/12/2023

Supervised By :mohammad ahmed 10/13/2023



#92

Benzo(g,h,i)perylene

Concen: 23.607 ng

RT: 17.362 min Scan# 2597

Delta R.T. 0.012 min

Lab File: BF135722.D

Acq: 11 Oct 2023 19:47

Tgt Ion:	276	Resp:	223156
Ion Ratio	Lower	Upper	
276	100		
277	24.8	18.8	28.2
138	20.8	16.9	25.3

