

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100924\
 Data File : BF139726.D
 Acq On : 09 Oct 2024 17:00
 Operator : RC/JU
 Sample : P4340-01 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1B-7

Manual Integrations
 APPROVED

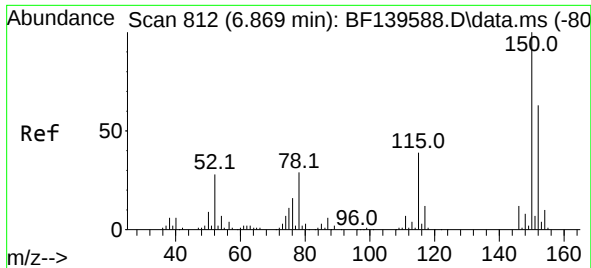
Reviewed By :Yogesh Patel 10/10/2024
 Supervised By :mohammad ahmed 10/10/2024

Quant Time: Oct 09 17:52:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 02 04:58:47 2024
 Response via : Initial Calibration

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

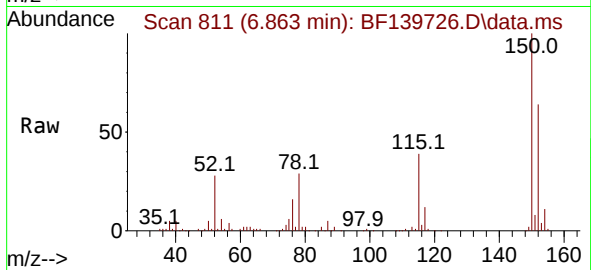
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	79597	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	296965	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	159333	20.000	ng	-0.01
64) Phenanthrene-d10	11.386	188	249802	20.000	ng	0.00
76) Chrysene-d12	14.033	240	151840	20.000	ng	0.00
86) Perylene-d12	15.504	264	171564	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	7607	1.656	ng	0.00
7) Phenol-d6	6.493	99	54012	8.746	ng	-0.01
23) Nitrobenzene-d5	7.422	82	72316	12.329	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	806	0.524	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	109747	10.574	ng	0.00
79) Terphenyl-d14	12.969	244	74559	8.057	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.169	128	89927	5.923	ng	99
37) 2-Methylnaphthalene	8.857	142	20139	2.037	ng	99
52) Acenaphthene	9.933	154	58331	6.289	ng	97
55) Dibenzofuran	10.104	168	47156	3.631	ng	97
58) Fluorene	10.445	166	78910	7.629	ng	99
71) Phenanthrene	11.416	178	734021	62.320	ng	100
72) Anthracene	11.463	178	217159	18.636	ng	98
73) Carbazole	11.622	167	46044	4.114	ng	98
75) Fluoranthene	12.604	202	720685	55.973	ng	100
78) Pyrene	12.833	202	700183	51.558	ng	98
81) Benzo(a)anthracene	14.021	228	318993	31.954	ng	98
83) Chrysene	14.057	228	249683	27.357	ng	97
87) Indeno(1,2,3-cd)pyrene	16.974	276	89074	8.821	ng	96
88) Benzo(b)fluoranthene	15.074	252	287913m	25.954	ng	
89) Benzo(k)fluoranthene	15.092	252	85551m	9.092	ng	
90) Benzo(a)pyrene	15.439	252	229859	26.279	ng	97
91) Dibenzo(a,h)anthracene	16.980	278	22158	2.646	ng	# 84
92) Benzo(g,h,i)perylene	17.421	276	79482	9.463	ng	98

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 812
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

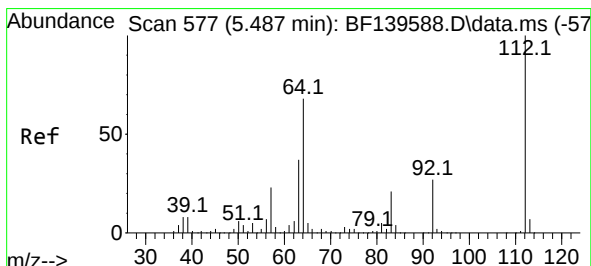
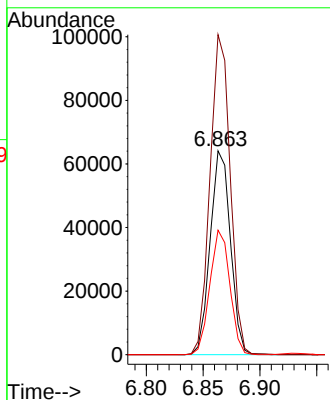
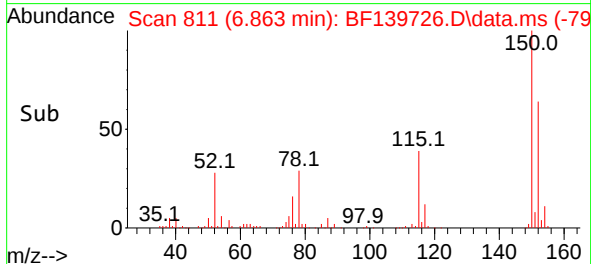
Instrument :
BNA_F
ClientSampleId :
1B-7



Tgt Ion:152 Resp: 7959
Ion Ratio Lower Upper
152 100
150 157.0 127.2 190.8
115 61.1 49.0 73.4

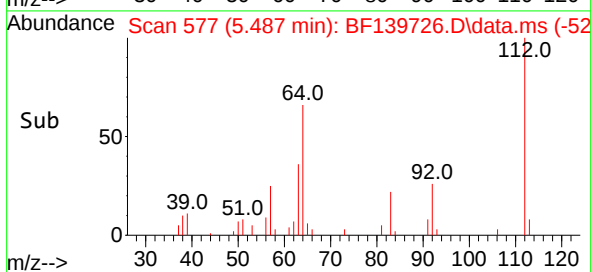
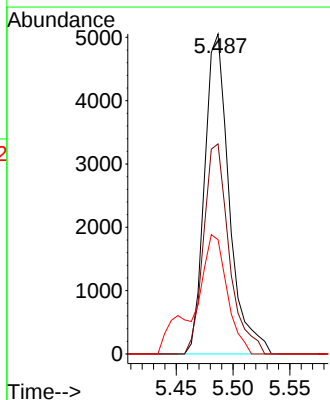
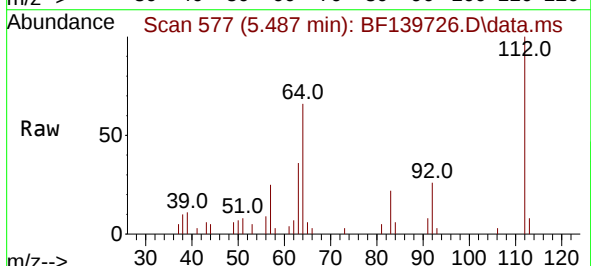
Manual Integrations
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Supervised By :mohammad ahmed 10/10/2024



#5
2-Fluorophenol
Concen: 1.656 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.000 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

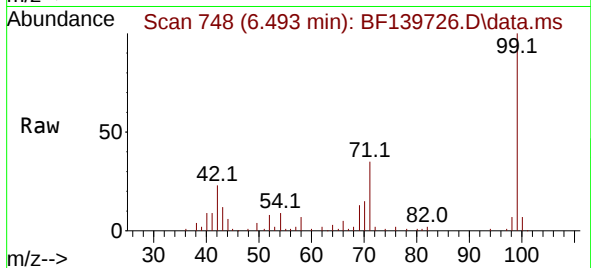
Tgt Ion:112 Resp: 7607
Ion Ratio Lower Upper
112 100
64 65.7 54.2 81.4
63 35.7 29.4 44.2





#7
Phenol-d6
Concen: 8.746 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

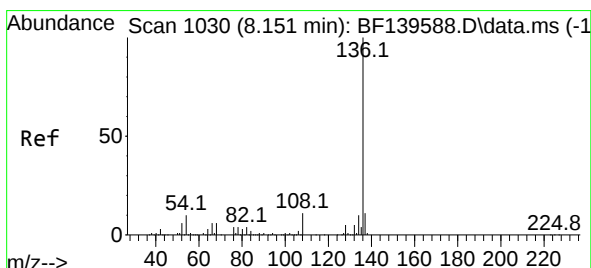
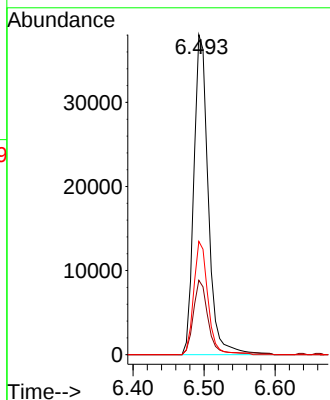
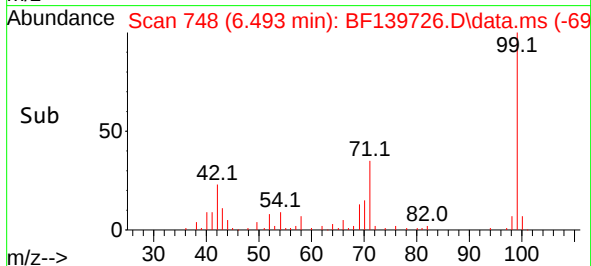
Instrument :
BNA_F
ClientSampleId :
1B-7



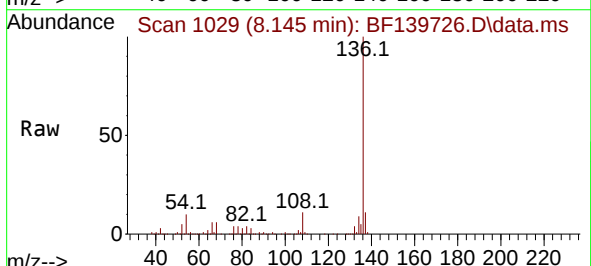
Tgt Ion: 99 Resp: 54012
Ion Ratio Lower Upper
99 100
42 23.2 19.1 28.7
71 35.4 29.7 44.5

Manual Integrations
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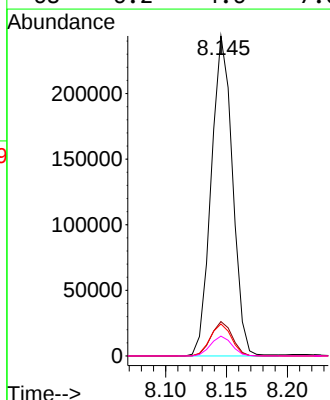
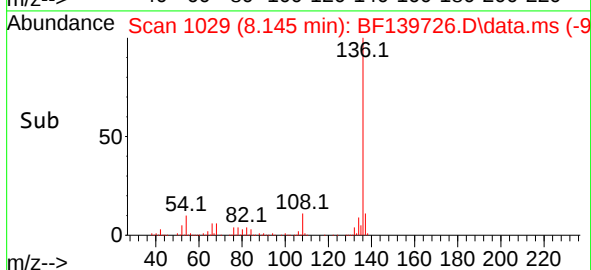
Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024

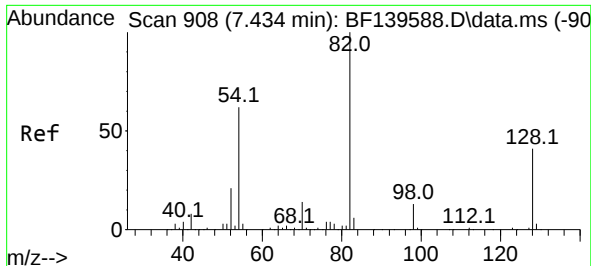


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00



Tgt Ion:136 Resp: 296965
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 10.0 8.3 12.5
68 6.2 4.6 7.0





#23

Nitrobenzene-d5

Concen: 12.329 ng

RT: 7.422 min Scan# 908

Delta R.T. -0.012 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

Tgt Ion: 82 Resp: 72310

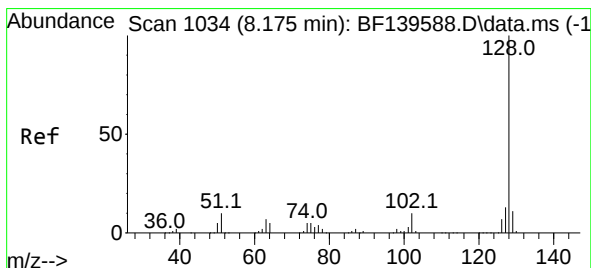
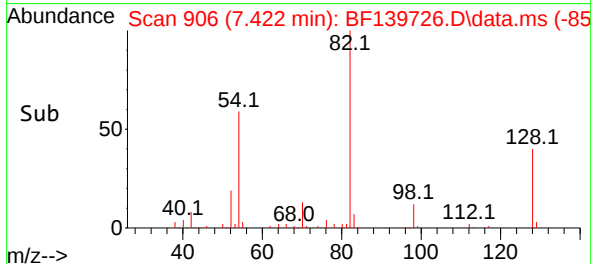
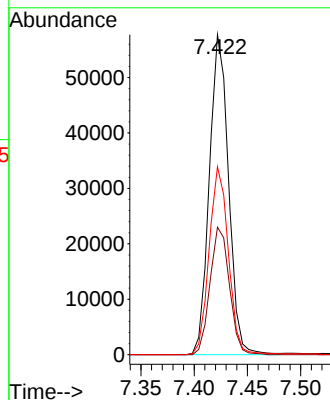
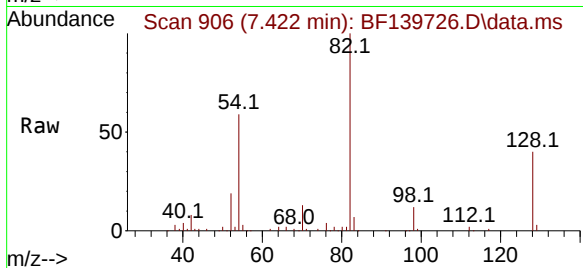
Ion	Ratio	Lower	Upper
82	100		
128	39.8	32.4	48.6
54	58.8	49.1	73.7

Manual Integrations

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Supervised By :mohammad ahmed 10/10/2024



#31

Naphthalene

Concen: 5.923 ng

RT: 8.169 min Scan# 1033

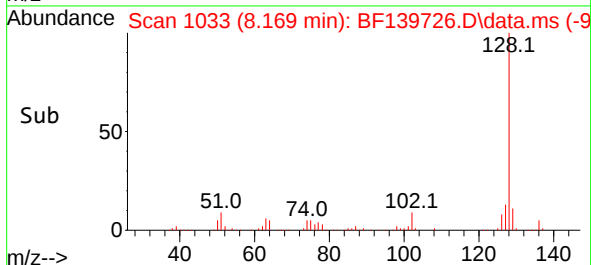
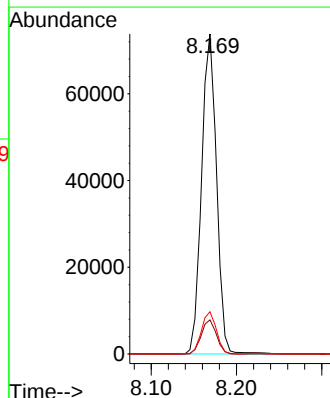
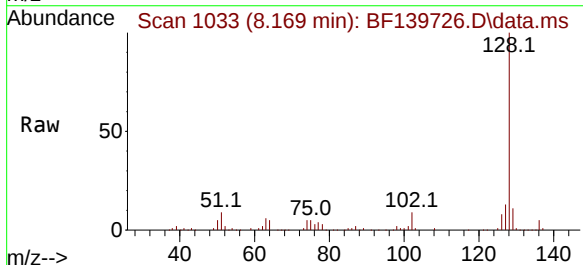
Delta R.T. -0.006 min

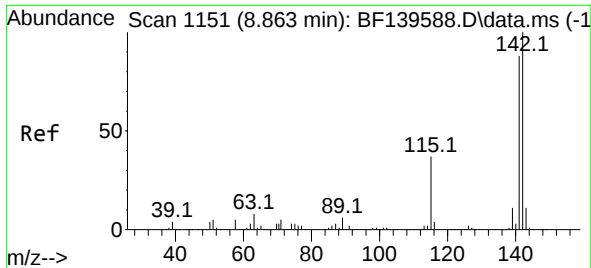
Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Tgt Ion:128 Resp: 89927

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	13.2	10.5	15.7





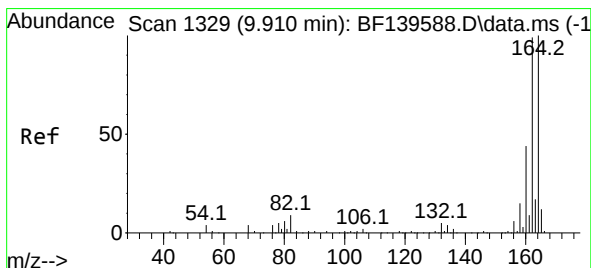
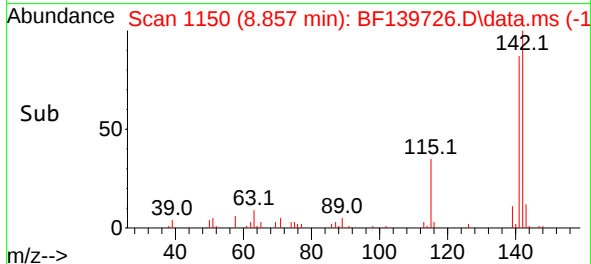
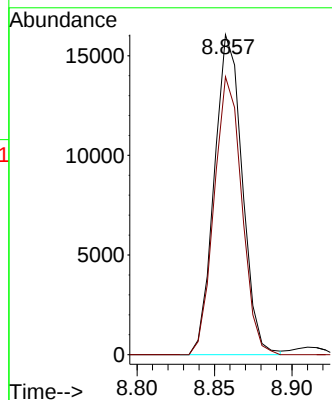
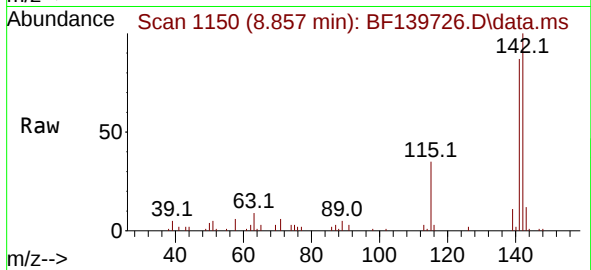
#37
2-Methylnaphthalene
Concen: 2.037 ng
RT: 8.857 min Scan# 1151
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

Instrument :
BNA_F
ClientSampleId :
1B-7

Tgt Ion:142 Resp: 20139
Ion Ratio Lower Upper
142 100
141 86.8 70.4 105.6

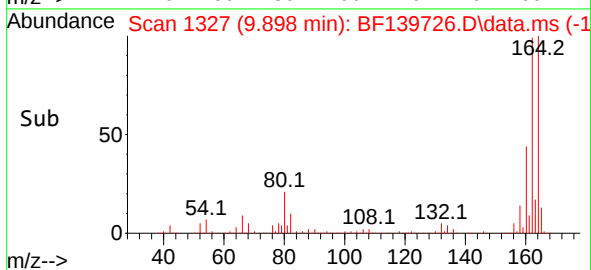
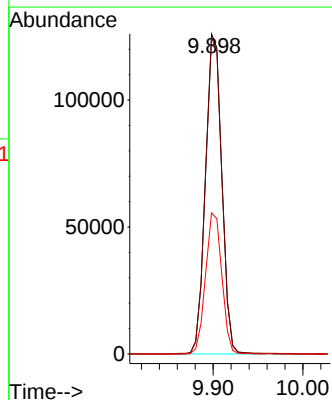
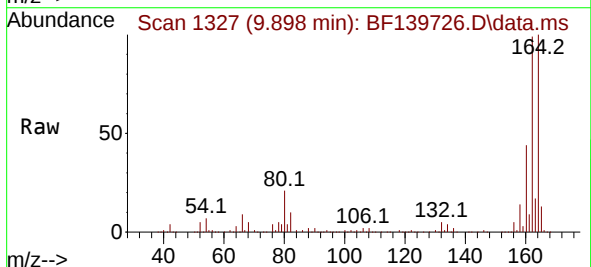
Manual Integrations
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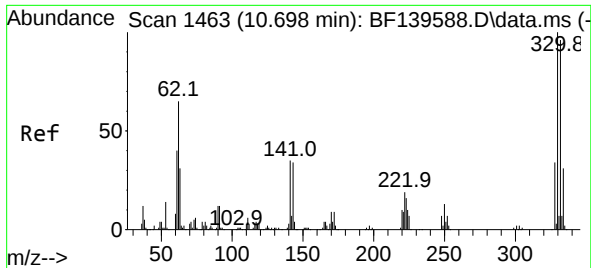
Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.012 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

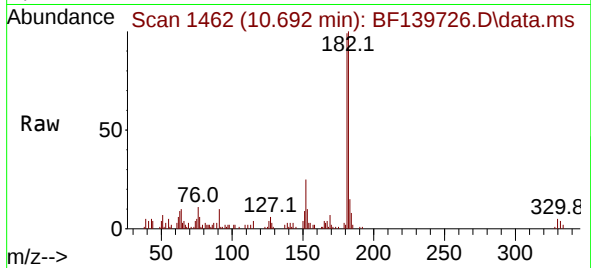
Tgt Ion:164 Resp: 159333
Ion Ratio Lower Upper
164 100
162 98.8 79.4 119.0
160 44.1 35.1 52.7





#42
2,4,6-Tribromophenol
Concen: 0.524 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

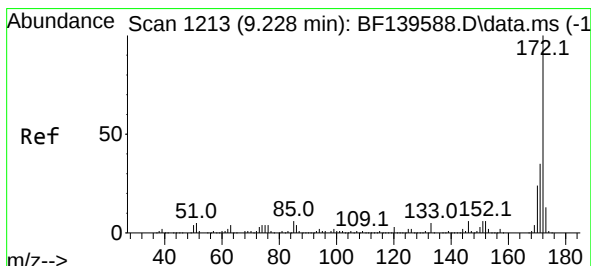
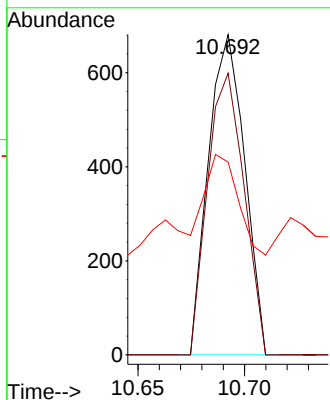
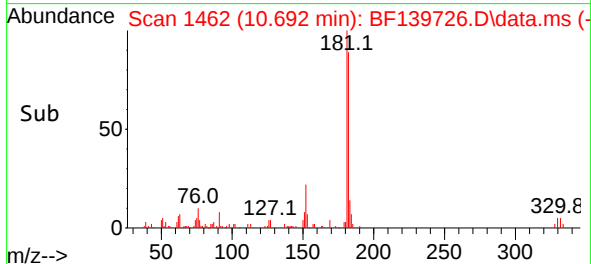
Instrument :
BNA_F
ClientSampleId :
1B-7



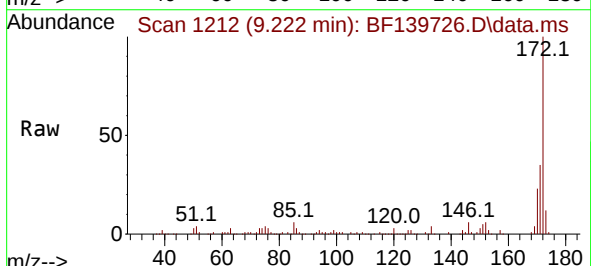
Tgt Ion: 330 Resp: 800
Ion Ratio Lower Upper
330 100
332 88.2 76.5 114.7
141 42.9 29.3 43.9

Manual Integrations
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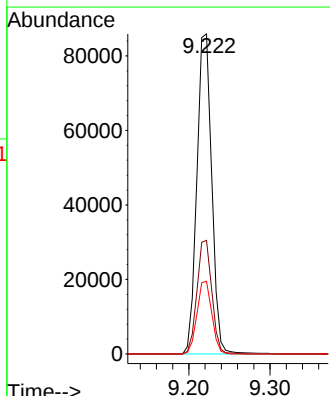
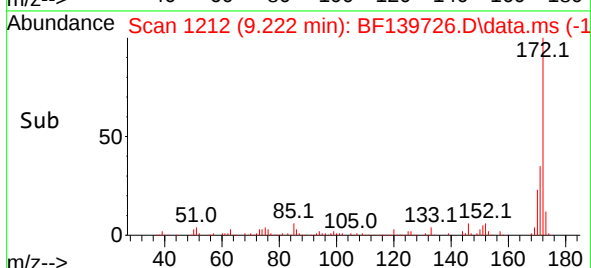
Reviewed By : Yogesh Patel 10/10/2024
Supervised By : mohammad ahmed 10/10/2024

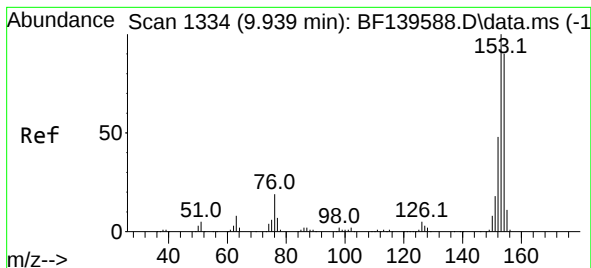


#45
2-Fluorobiphenyl
Concen: 10.574 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00



Tgt Ion: 172 Resp: 109747
Ion Ratio Lower Upper
172 100
171 35.5 28.2 42.4
170 22.7 18.8 28.2





#52

Acenaphthene

Concen: 6.289 ng

RT: 9.933 min Scan# 1333

Delta R.T. -0.006 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

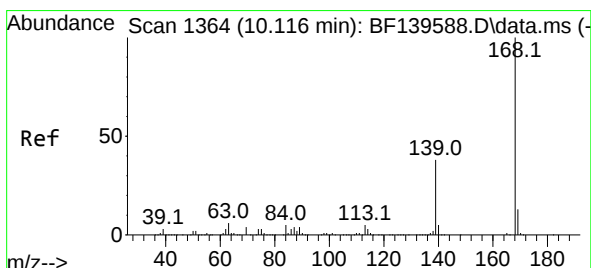
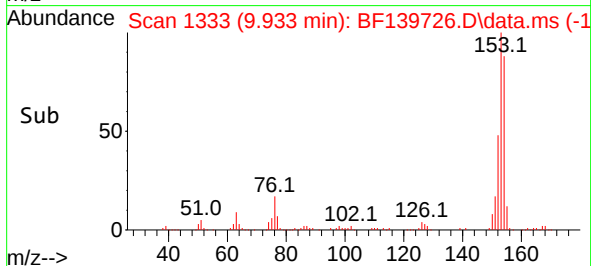
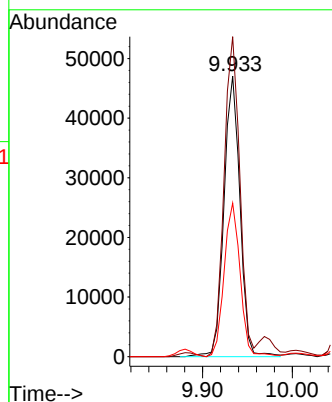
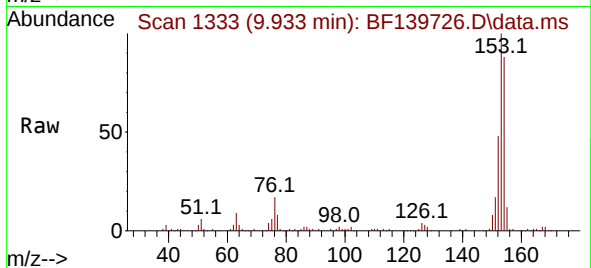
Tgt Ion:154	Resp:	5833
Ion Ratio	Lower	Upper
154	100	
153	114.0	88.8 133.2
152	54.7	42.5 63.7

Manual Integrations

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Reviewed By :Yogesh Patel 10/10/2024

Supervised By :mohammad ahmed 10/10/2024



#55

Dibenzofuran

Concen: 3.631 ng

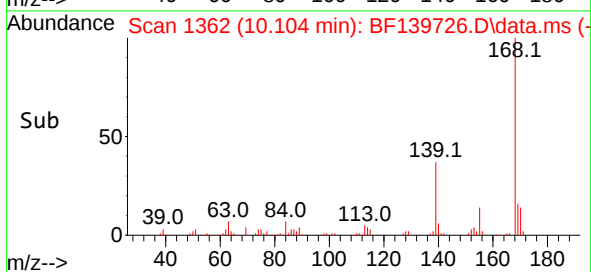
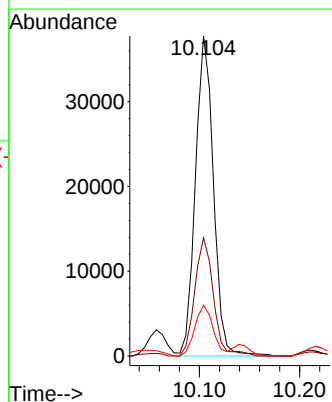
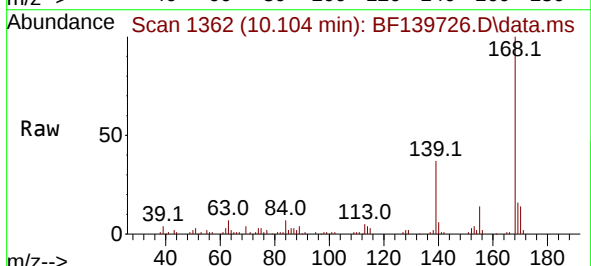
RT: 10.104 min Scan# 1362

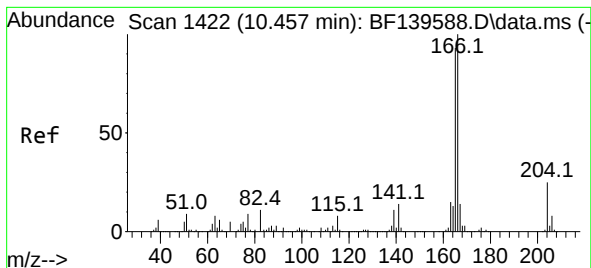
Delta R.T. -0.012 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Tgt Ion:168	Resp:	47156
Ion Ratio	Lower	Upper
168	100	
139	36.9	30.4 45.6
169	15.9	10.7 16.1





#58

Fluorene

Concen: 7.629 ng

RT: 10.445 min Scan# 1422

Delta R.T. -0.012 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

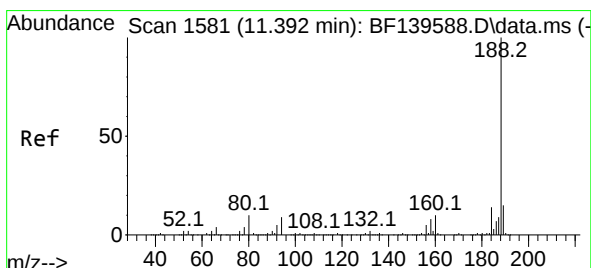
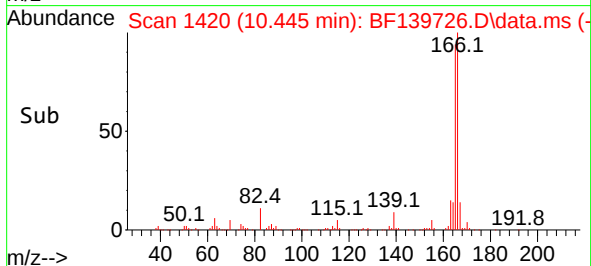
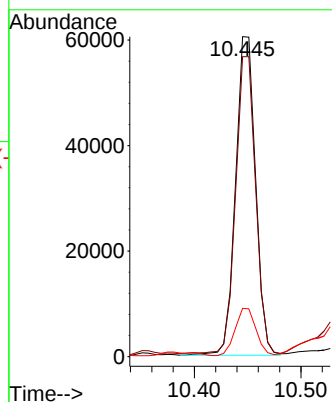
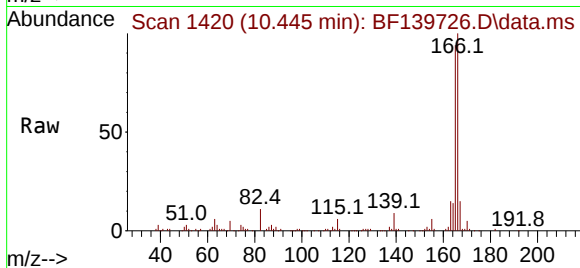
Tgt Ion:166 Resp: 78910
 Ion Ratio Lower Upper
 166 100
 165 93.7 74.4 111.6
 167 15.1 10.9 16.3

Manual Integrations

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Reviewed By :Yogesh Patel 10/10/2024

Supervised By :mohammad ahmed 10/10/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

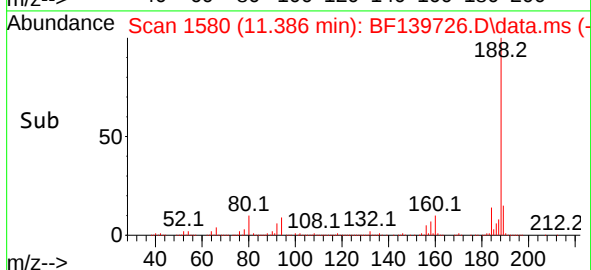
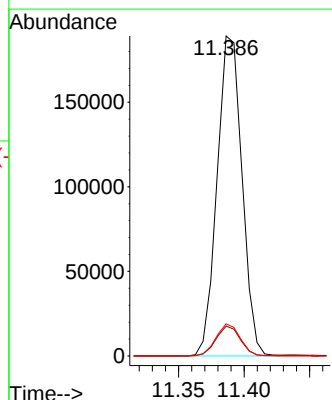
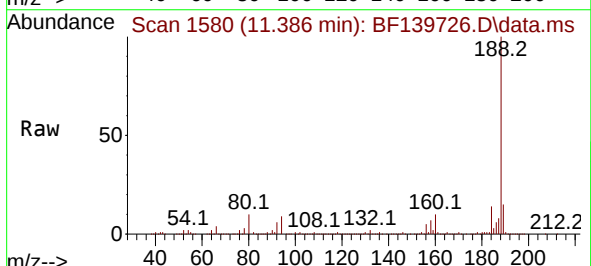
RT: 11.386 min Scan# 1580

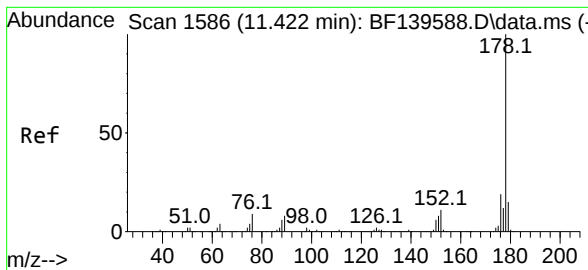
Delta R.T. -0.006 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

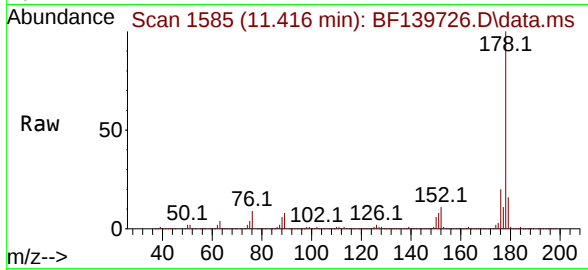
Tgt Ion:188 Resp: 249802
 Ion Ratio Lower Upper
 188 100
 94 9.3 7.4 11.2
 80 10.0 8.2 12.2





#71
Phenanthrene
Concen: 62.320 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

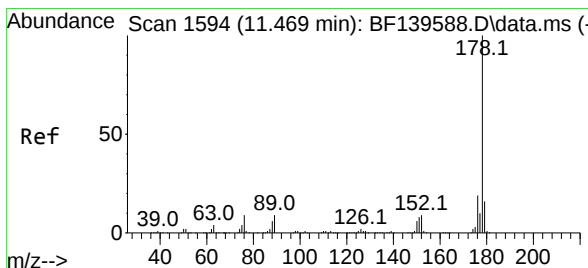
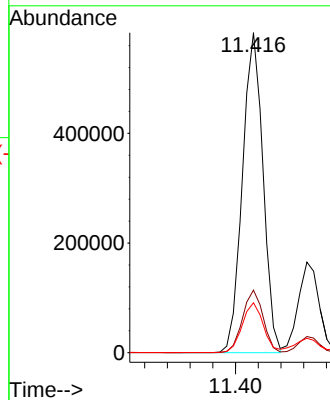
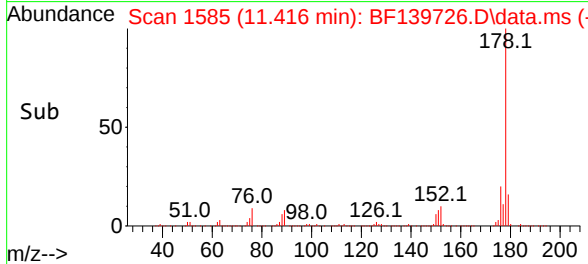
Instrument :
BNA_F
ClientSampleId :
1B-7



Tgt Ion:178 Resp: 73402
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 15.6 12.3 18.5

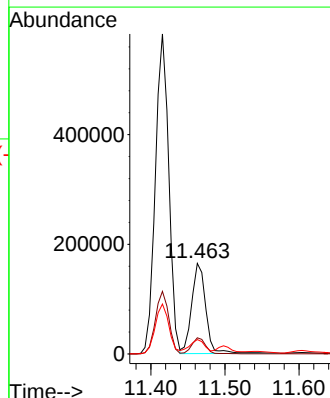
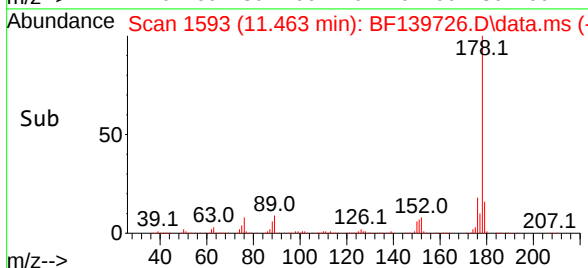
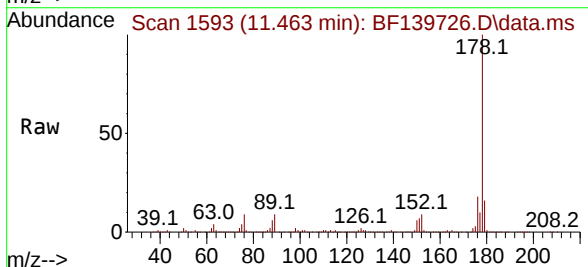
Manual Integrations
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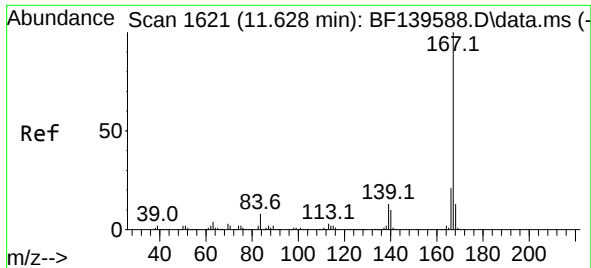
Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024



#72
Anthracene
Concen: 18.636 ng
RT: 11.463 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

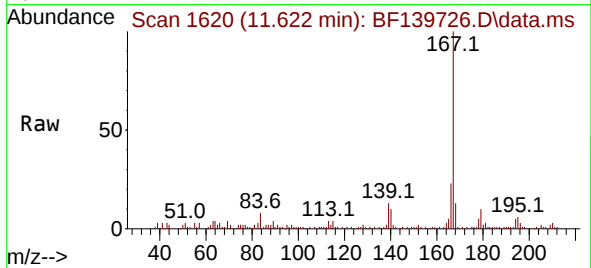
Tgt Ion:178 Resp: 217159
Ion Ratio Lower Upper
178 100
176 17.9 15.1 22.7
179 16.0 12.5 18.7





#73
 Carbazole
 Concen: 4.114 ng
 RT: 11.622 min Scan# 1620
 Delta R.T. -0.006 min
 Lab File: BF139726.D
 Acq: 09 Oct 2024 17:00

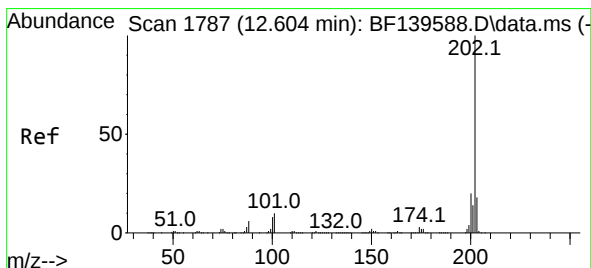
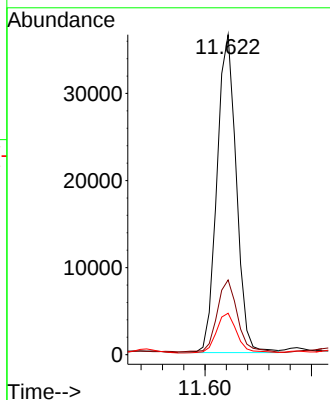
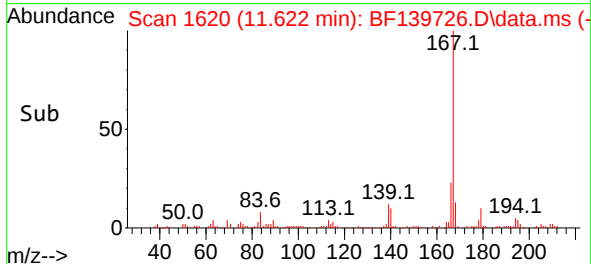
Instrument :
 BNA_F
 ClientSampleId :
 1B-7



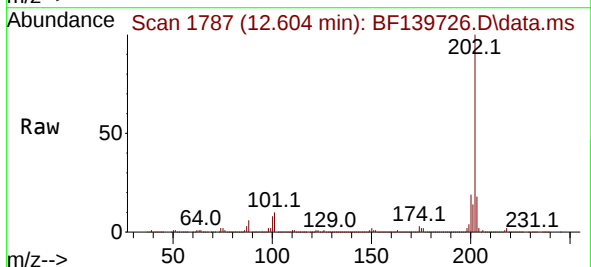
Tgt Ion:167 Resp: 4604
 Ion Ratio Lower Upper
 167 100
 166 23.3 17.2 25.8
 139 12.9 10.3 15.5

Manual Integrations
 APPROVED

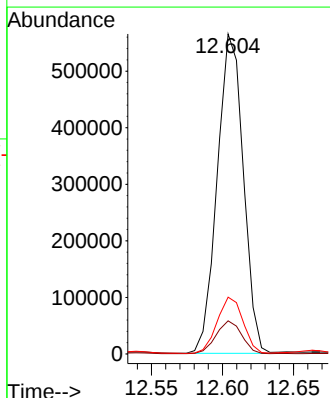
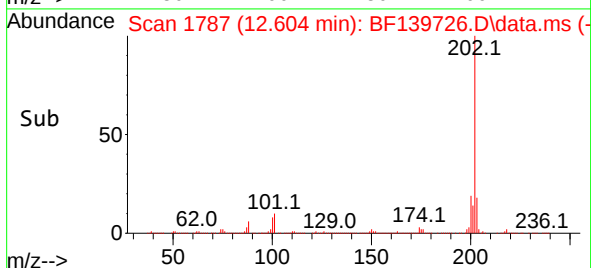
Reviewed By :Yogesh Patel 10/10/2024
 Supervised By :mohammad ahmed 10/10/2024

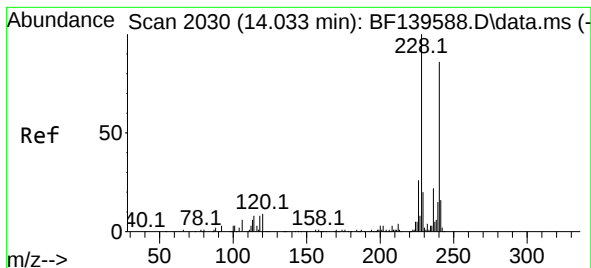


#75
 Fluoranthene
 Concen: 55.973 ng
 RT: 12.604 min Scan# 1787
 Delta R.T. -0.000 min
 Lab File: BF139726.D
 Acq: 09 Oct 2024 17:00



Tgt Ion:202 Resp: 720685
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 30.2
 203 17.8 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. 0.000 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

Tgt Ion:240 Resp: 151840

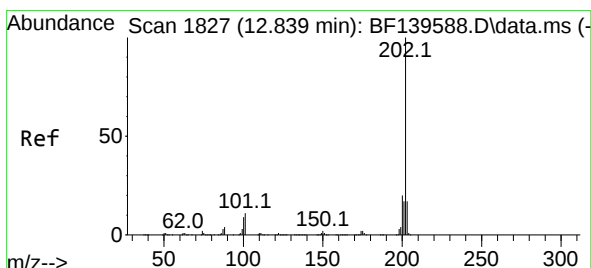
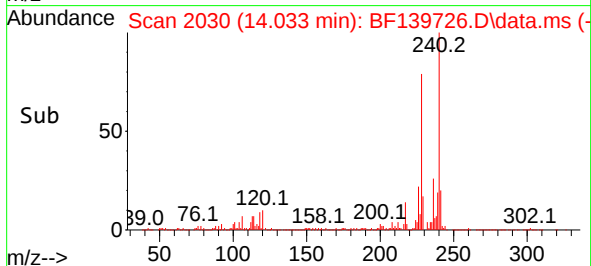
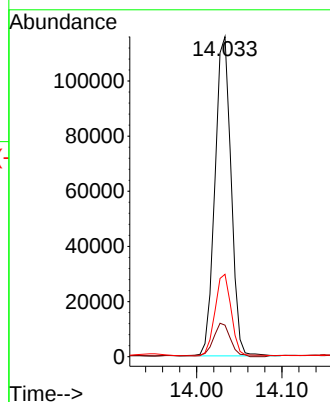
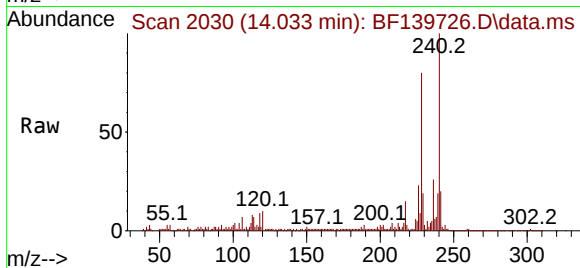
Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.4	12.6
236	25.7	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/10/2024

Supervised By :mohammad ahmed 10/10/2024



#78

Pyrene

Concen: 51.558 ng

RT: 12.833 min Scan# 1826

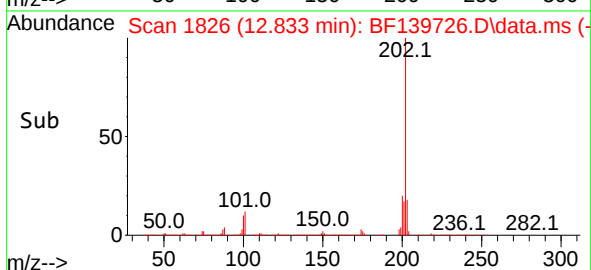
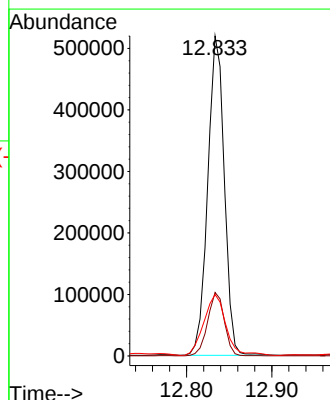
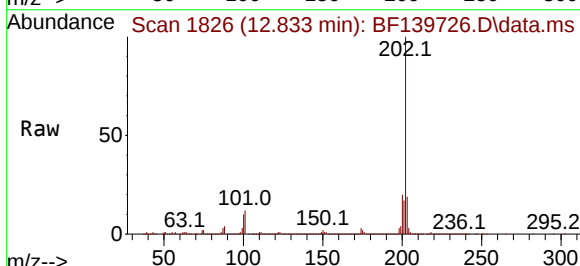
Delta R.T. -0.006 min

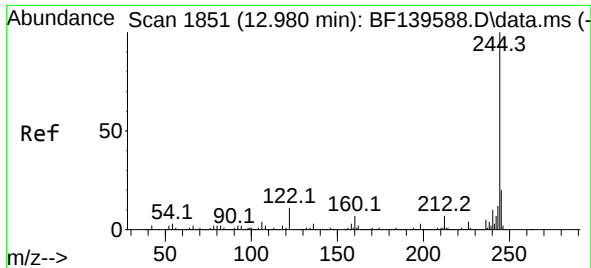
Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Tgt Ion:202 Resp: 700183

Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.8	23.6
203	19.2	13.8	20.8





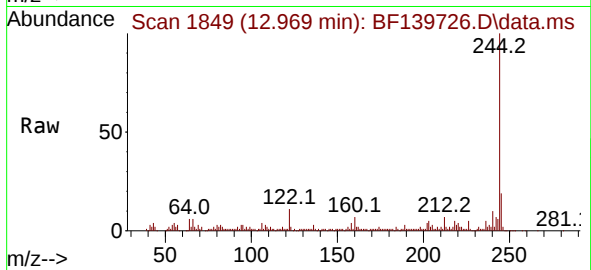
#79
 Terphenyl-d14
 Concen: 8.057 ng
 RT: 12.969 min Scan# 1849
 Delta R.T. -0.011 min
 Lab File: BF139726.D
 Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

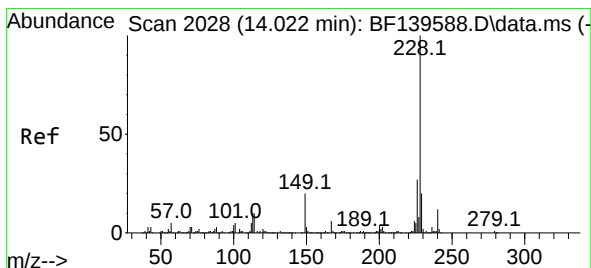
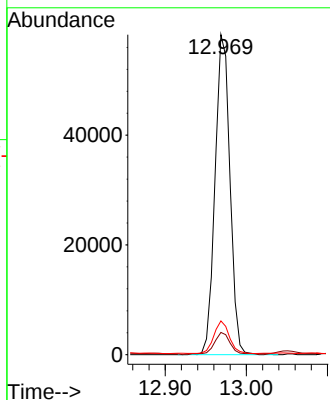
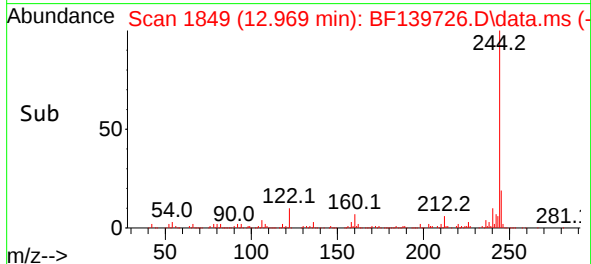


Tgt Ion:244 Resp: 74559
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.6
 122 10.5 8.6 12.8

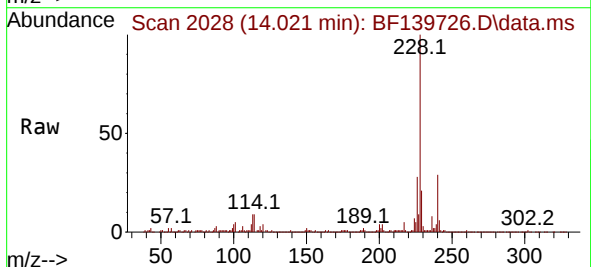
Manual Integrations

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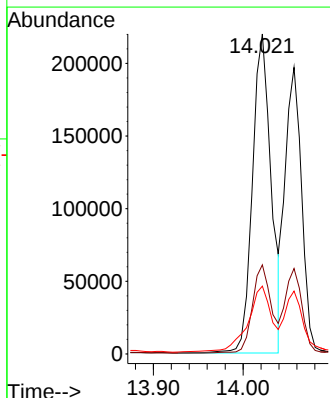
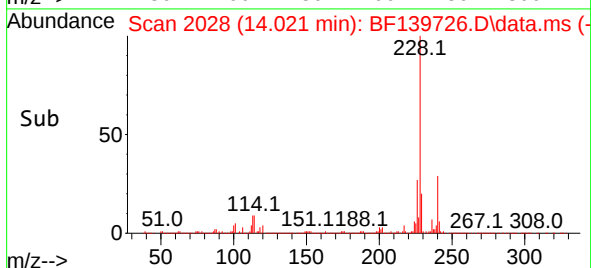
Reviewed By :Yogesh Patel 10/10/2024
 Supervised By :mohammad ahmed 10/10/2024

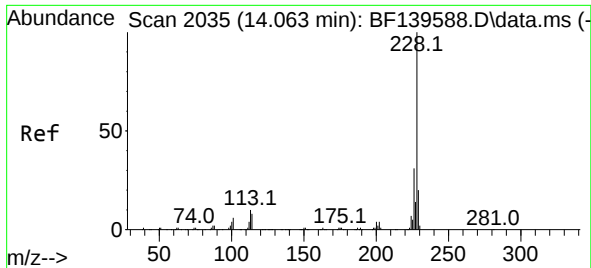


#81
 Benzo(a)anthracene
 Concen: 31.954 ng
 RT: 14.021 min Scan# 2028
 Delta R.T. -0.000 min
 Lab File: BF139726.D
 Acq: 09 Oct 2024 17:00



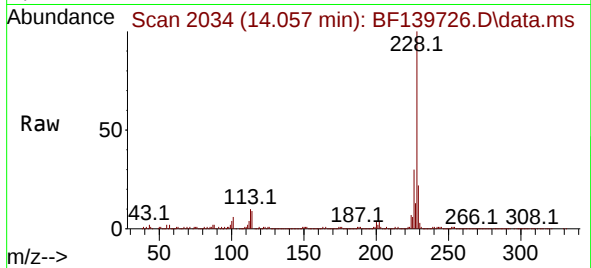
Tgt Ion:228 Resp: 318993
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.8 32.8
 229 21.2 15.8 23.8





#83
Chrysene
Concen: 27.357 ng
RT: 14.057 min Scan# 2035
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

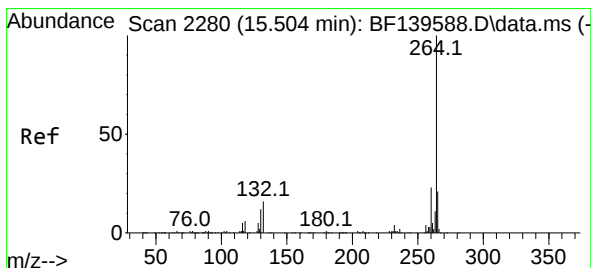
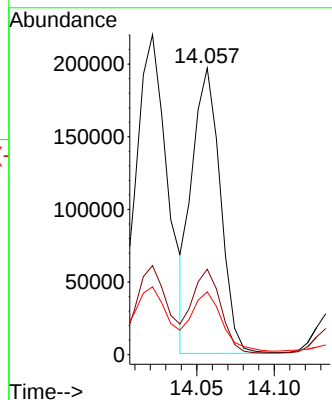
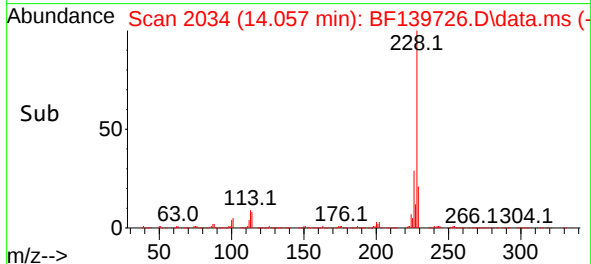
Instrument :
BNA_F
ClientSampleId :
1B-7



Tgt Ion:228 Resp: 24968
Ion Ratio Lower Upper
228 100
226 29.8 24.3 36.5
229 21.9 15.7 23.5

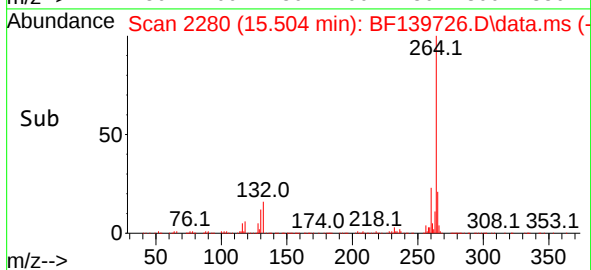
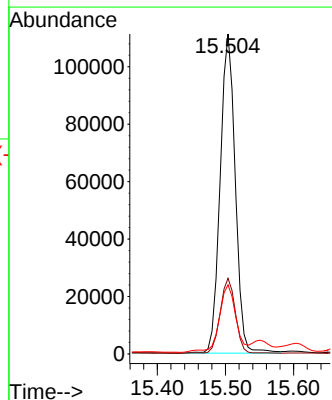
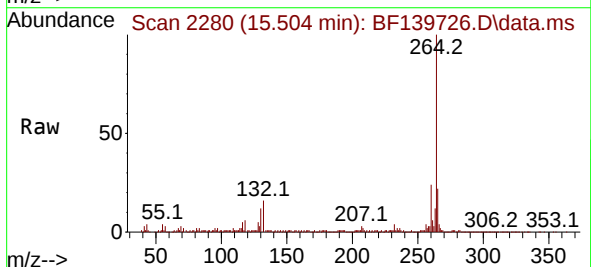
Manual Integrations
APPROVED

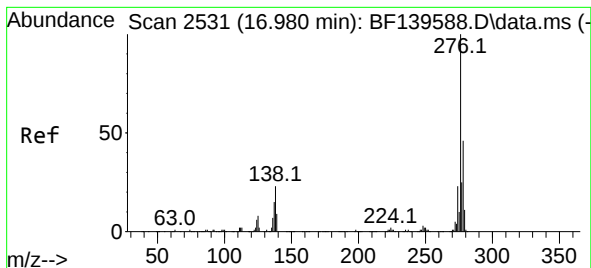
Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

Tgt Ion:264 Resp: 171564
Ion Ratio Lower Upper
264 100
260 23.6 18.7 28.1
265 21.6 16.9 25.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.821 ng

RT: 16.974 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

Instrument :

BNA_F

ClientSampleId :

1B-7

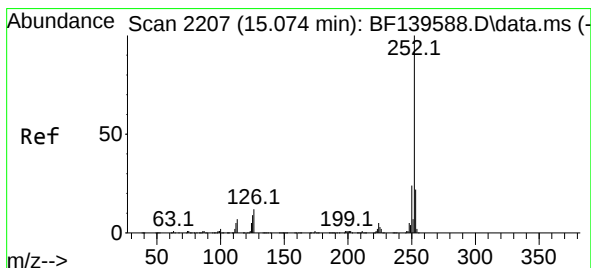
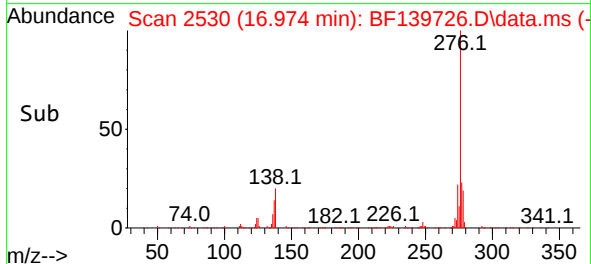
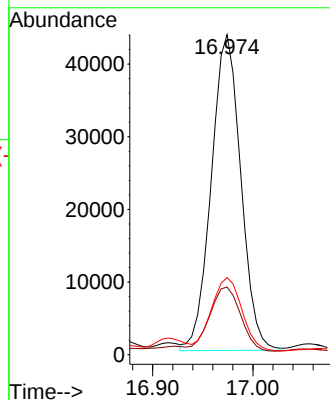
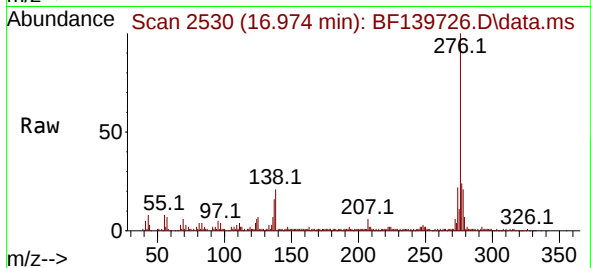
Tgt Ion:276 Resp: 89074
 Ion Ratio Lower Upper
 276 100
 138 21.2 19.4 29.0
 277 24.0 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/10/2024

Supervised By :mohammad ahmed 10/10/2024



#88

Benzo(b)fluoranthene

Concen: 25.954 ng m

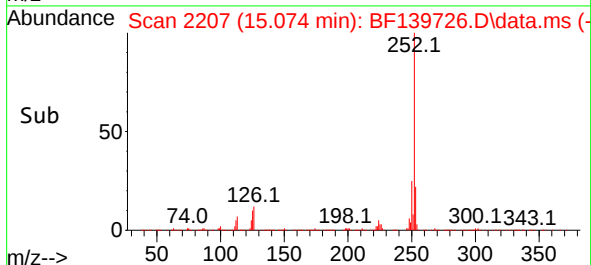
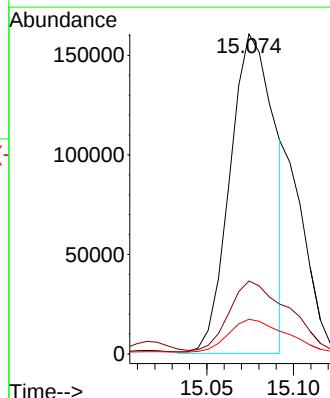
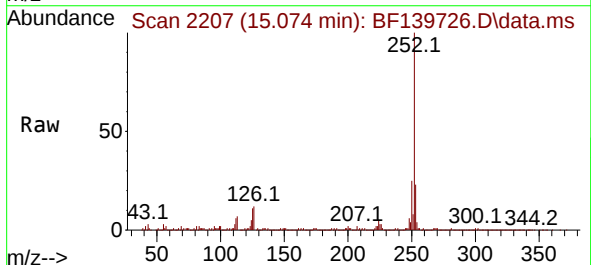
RT: 15.074 min Scan# 2207

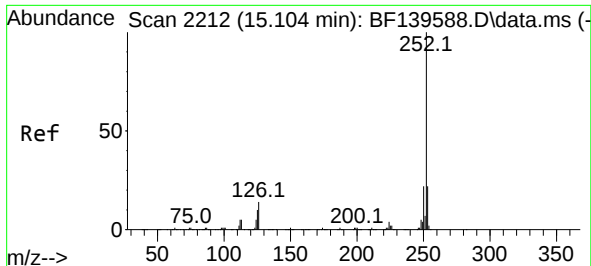
Delta R.T. -0.000 min

Lab File: BF139726.D

Acq: 09 Oct 2024 17:00

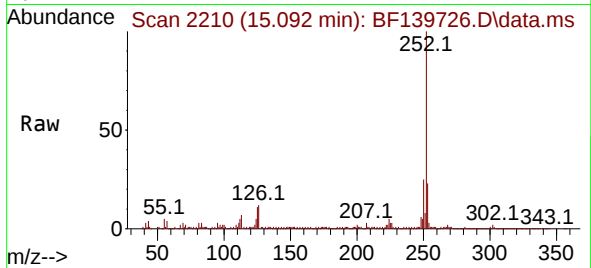
Tgt Ion:252 Resp: 287913
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.4 26.0
 125 10.9 7.4 11.0





#89
Benzo(k)fluoranthene
Concen: 9.092 ng m
RT: 15.092 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

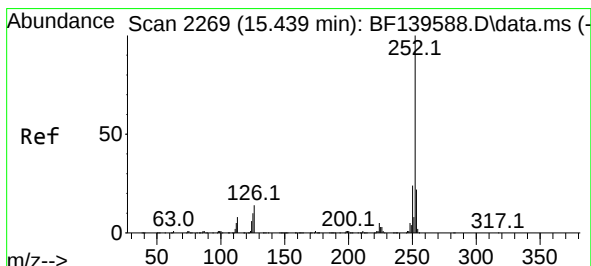
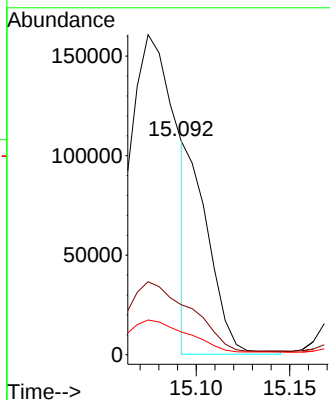
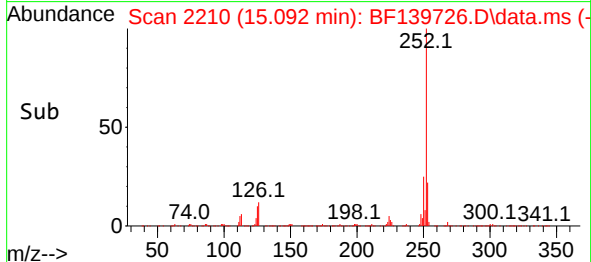
Instrument :
BNA_F
ClientSampleId :
1B-7



Tgt Ion:252 Resp: 8555
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 10.7 7.6 11.4

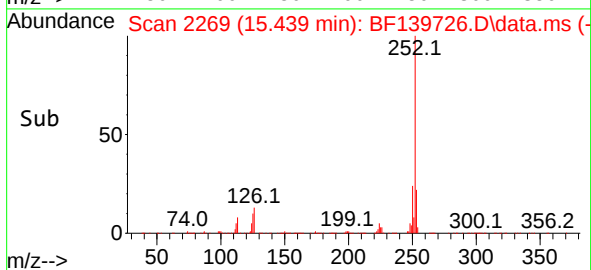
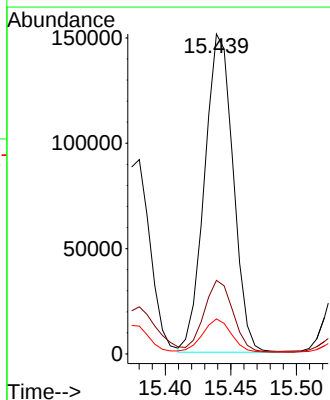
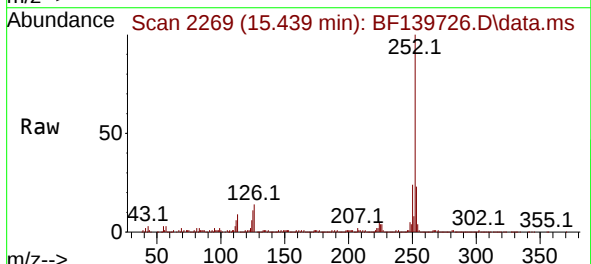
Manual Integrations
APPROVED

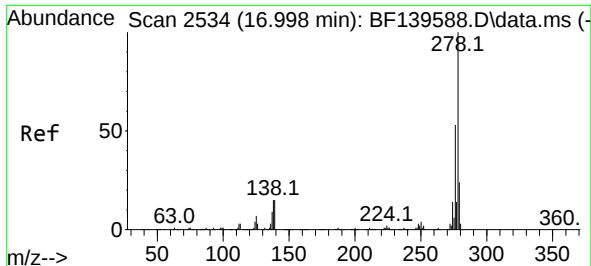
Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024



#90
Benzo(a)pyrene
Concen: 26.279 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

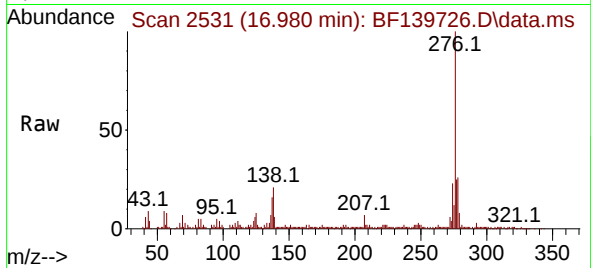
Tgt Ion:252 Resp: 229859
Ion Ratio Lower Upper
252 100
253 23.0 17.3 25.9
125 11.0 8.3 12.5





#91
Dibenzo(a,h)anthracene
Concen: 2.646 ng
RT: 16.980 min Scan# 2158
Delta R.T. -0.018 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

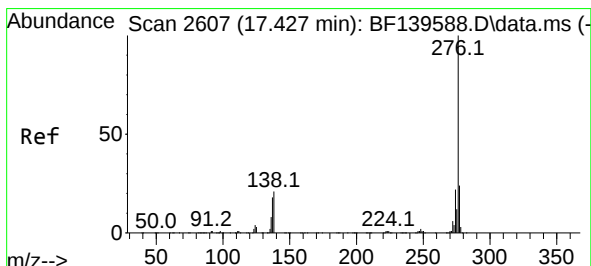
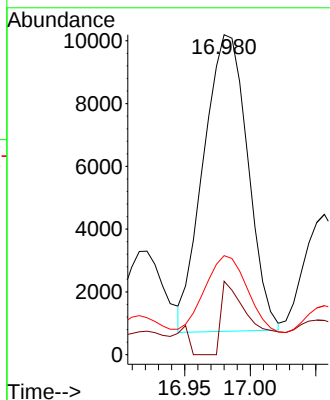
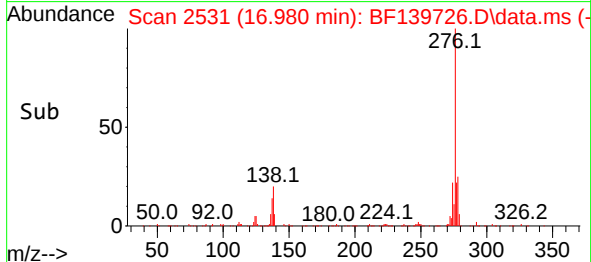
Instrument :
BNA_F
ClientSampleId :
1B-7



Tgt Ion:278 Resp: 22158
Ion Ratio Lower Upper
278 100
139 22.9 12.2 18.4
279 30.9 19.2 28.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/10/2024
Supervised By :mohammad ahmed 10/10/2024



#92
Benzo(g,h,i)perylene
Concen: 9.463 ng
RT: 17.421 min Scan# 2606
Delta R.T. -0.006 min
Lab File: BF139726.D
Acq: 09 Oct 2024 17:00

Tgt Ion:276 Resp: 79482
Ion Ratio Lower Upper
276 100
277 25.4 19.0 28.6
138 21.0 17.0 25.6

