

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF010424\
 Data File : BF136955.D
 Acq On : 04 Jan 2024 22:52
 Operator : CG\JU
 Sample : 05899-22DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GHL-SS-18-2-4DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/05/2024
 Supervised By :mohammad ahmed 01/05/2024

Quant Time: Jan 05 00:45:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	41978	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	160960	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	81999	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	152088	20.000	ng	0.00
76) Chrysene-d12	13.969	240	105935	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	119762	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	23965	8.908	ng	0.00
7) Phenol-d6	6.434	99	30346	8.705	ng	0.00
23) Nitrobenzene-d5	7.340	82	17491	5.561	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	8078	8.365	ng	-0.01
45) 2-Fluorobiphenyl	9.134	172	42334	6.944	ng	-0.02
79) Terphenyl-d14	12.898	244	46465	6.130	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.081	128	310493	35.113	ng	100
37) 2-Methylnaphthalene	8.769	142	162392	28.535	ng	98
38) 1-Methylnaphthalene	8.869	142	11956m	2.141	ng	
46) 1,1'-Biphenyl	9.234	154	34447	5.006	ng	98
52) Acenaphthene	9.845	154	58141	11.731	ng	97
55) Dibenzofuran	10.022	168	264294	35.178	ng	97
58) Fluorene	10.369	166	560193	93.971	ng	99
71) Phenanthrene	11.345	178	1266161	162.250	ng	99
72) Anthracene	11.427	178	5371686	679.694	ng	98
73) Carbazole	11.575	167	2487855	333.887	ng	99
75) Fluoranthene	12.533	202	566986	67.924	ng	98
78) Pyrene	12.763	202	383650	36.892	ng	99
81) Benzo(a)anthracene	13.957	228	135533	18.425	ng	98
83) Chrysene	13.992	228	237922	33.075	ng	98
84) Bis(2-ethylhexyl)phtha...	13.945	149	29547	6.206	ng	# 98
87) Indeno(1,2,3-cd)pyrene	16.962	276	22607	2.614	ng	98
88) Benzo(b)fluoranthene	15.015	252	92316m	11.541	ng	
89) Benzo(k)fluoranthene	15.039	252	29208m	3.864	ng	
90) Benzo(a)pyrene	15.386	252	47382	7.017	ng	99
92) Benzo(g,h,i)perylene	17.427	276	18520	2.549	ng	98

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

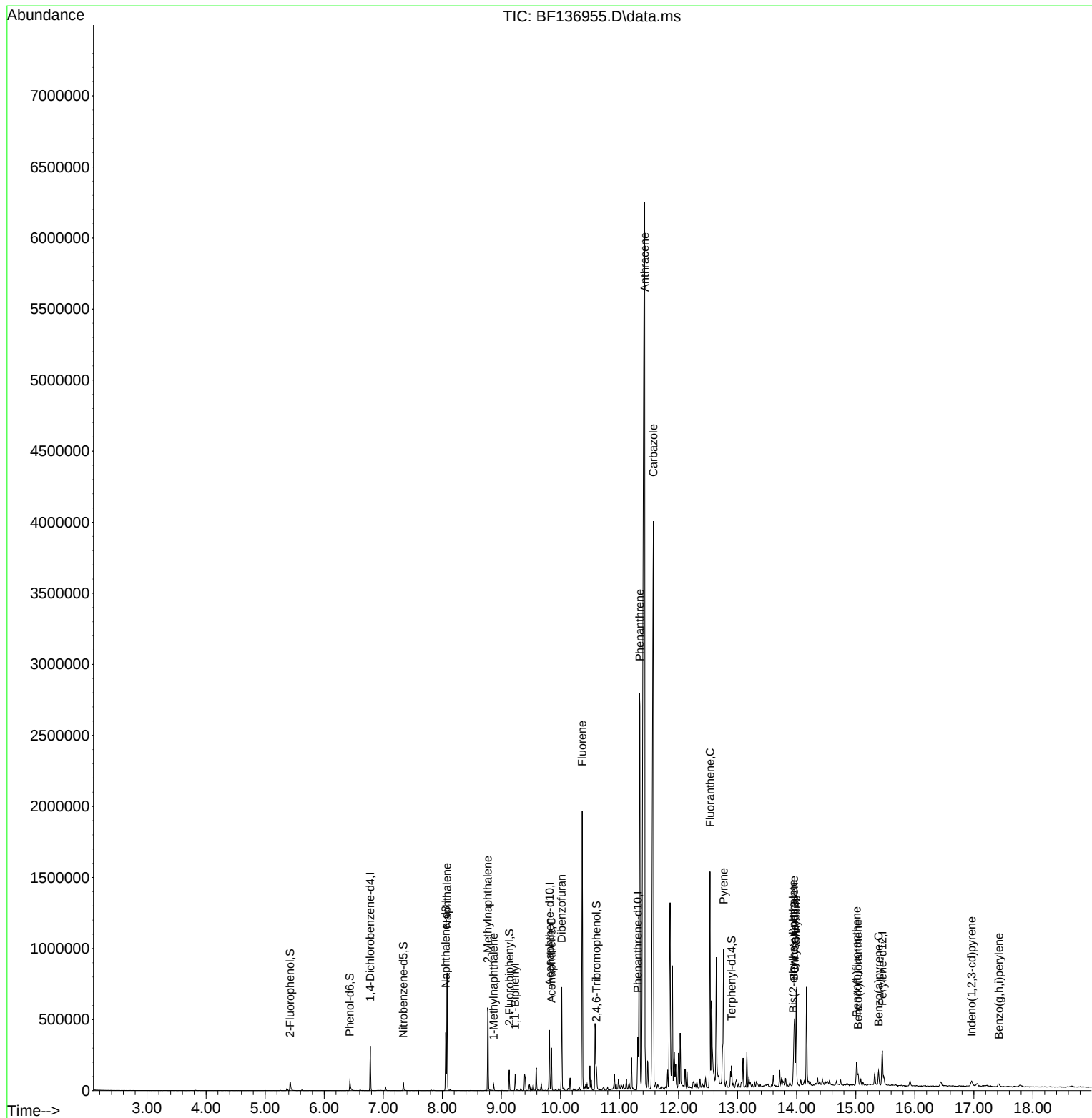
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF010424\
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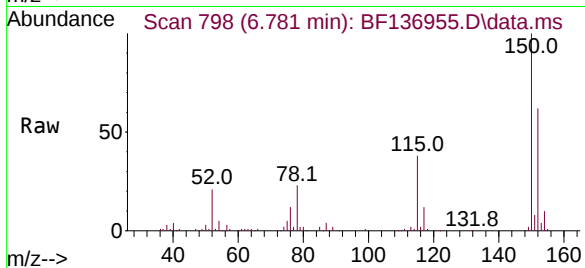
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 70
Delta R.T. -0.011 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL



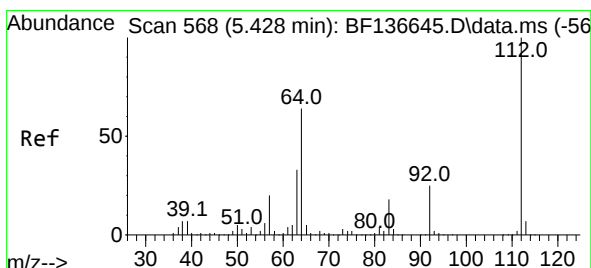
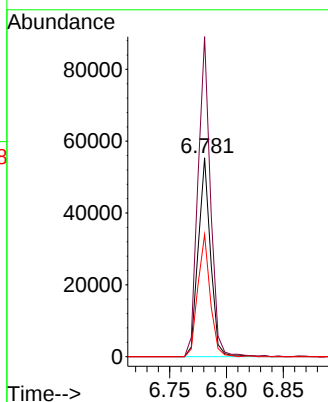
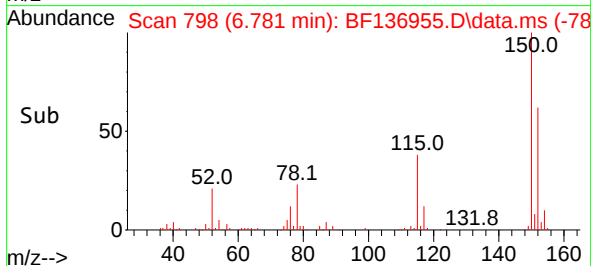
Tgt Ion:152 Resp: 41978
Ion Ratio Lower Upper
152 100
150 160.9 127.0 190.6
115 61.4 49.0 73.4

Manual Integrations

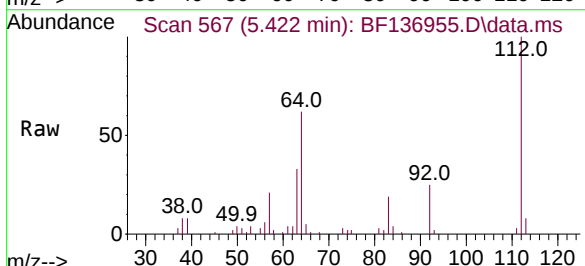
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Reviewed By :Yogesh Patel 01/05/2024

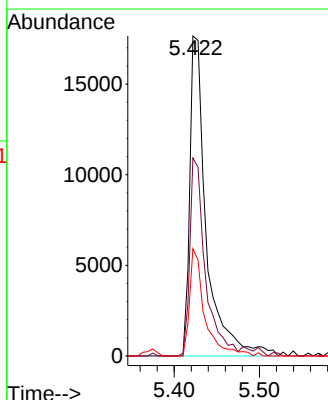
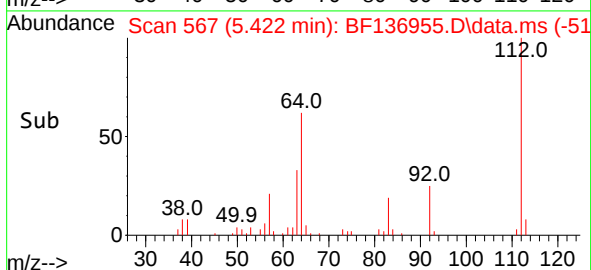
Supervised By :mohammad ahmed 01/05/2024

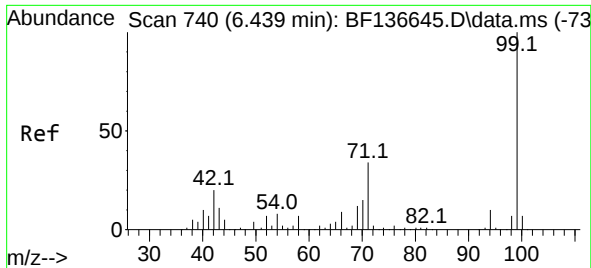


#5
2-Fluorophenol
Concen: 8.908 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



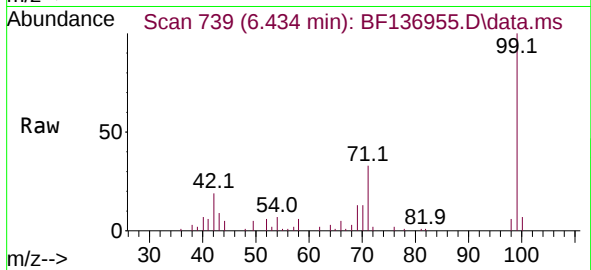
Tgt Ion:112 Resp: 23965
Ion Ratio Lower Upper
112 100
64 61.8 51.1 76.7
63 33.5 26.1 39.1





#7
Phenol-d6
Concen: 8.705 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

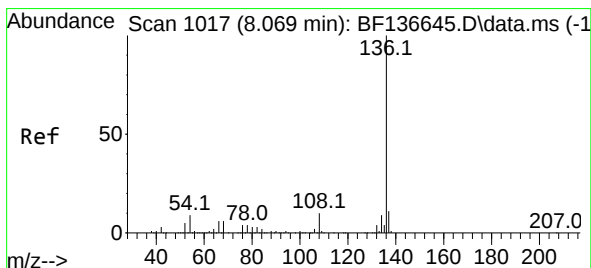
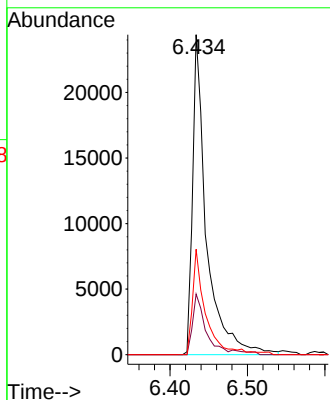
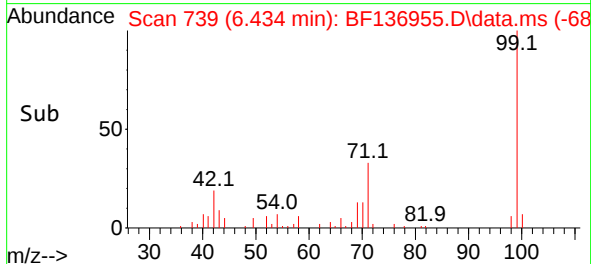
Instrument :
BNA_F
ClientSampleId :
GHL-SS-18-2-4DL



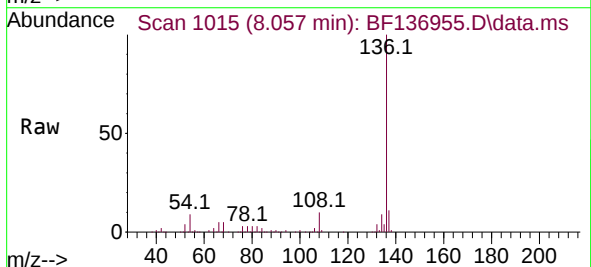
Tgt Ion: 99 Resp: 30340
Ion Ratio Lower Upper
99 100
42 18.9 16.1 24.1
71 32.9 27.4 41.2

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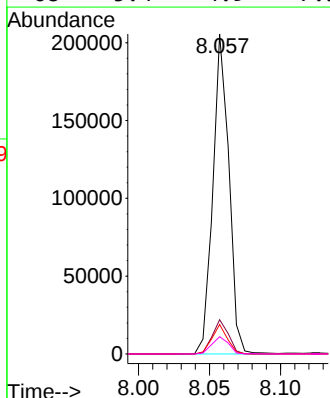
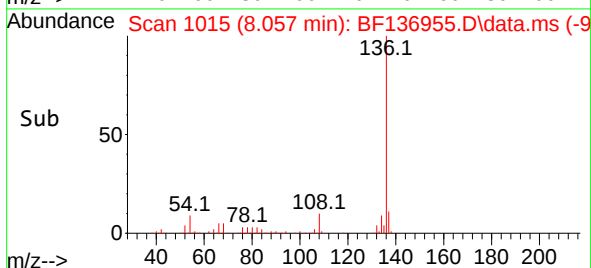
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

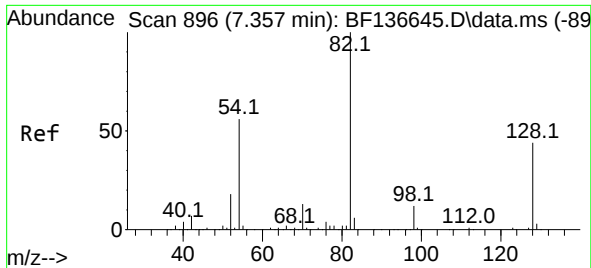


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



Tgt Ion:136 Resp: 160960
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 9.2 7.2 10.8
68 5.4 4.9 7.3





#23
Nitrobenzene-d5
Concen: 5.561 ng
RT: 7.340 min Scan# 89
Delta R.T. -0.017 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

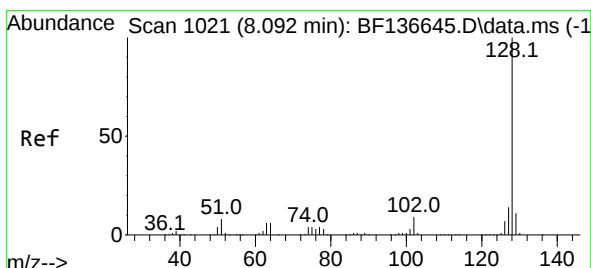
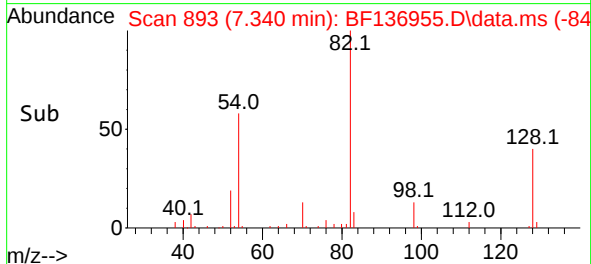
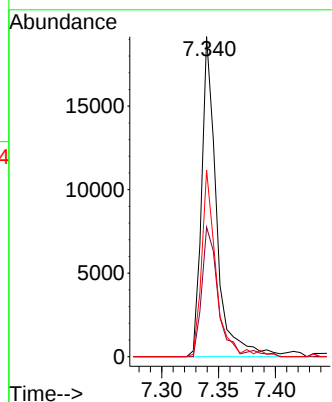
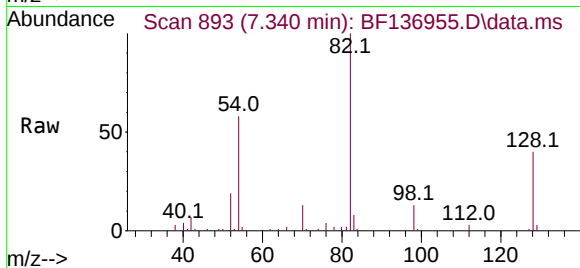
ClientSampleId :

GHL-SS-18-2-4DL

Tgt Ion: 82 Resp: 1749
Ion Ratio Lower Upper
82 100
128 40.5 35.3 52.9
54 58.3 44.5 66.7

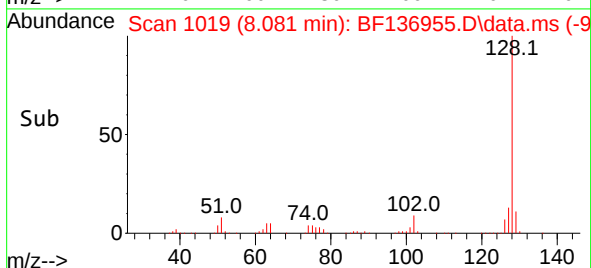
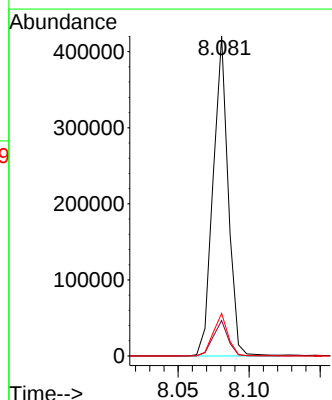
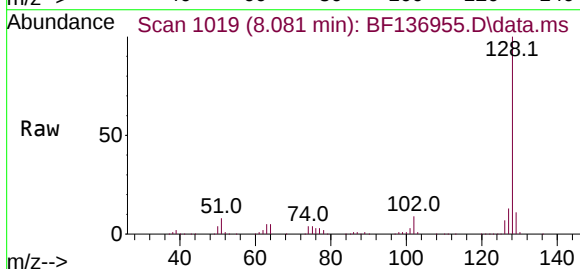
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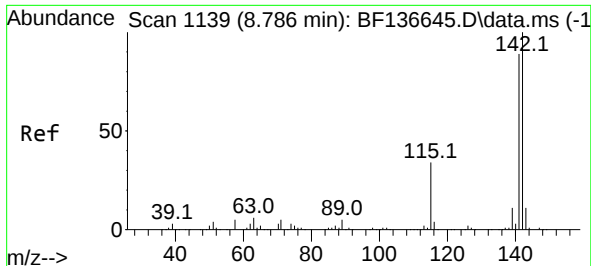
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024



#31
Naphthalene
Concen: 35.113 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

Tgt Ion:128 Resp: 310493
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.3 10.8 16.2





#37

2-Methylnaphthalene

Concen: 28.535 ng

RT: 8.769 min Scan# 1136

Delta R.T. -0.017 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

Tgt Ion:142 Resp: 162392

Ion Ratio Lower Upper

142 100

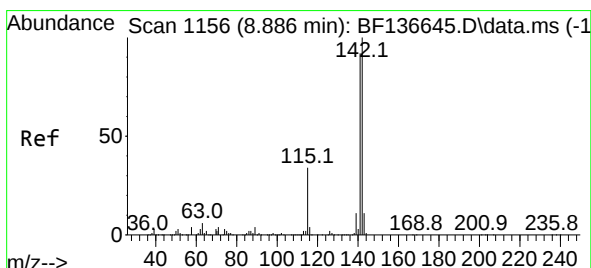
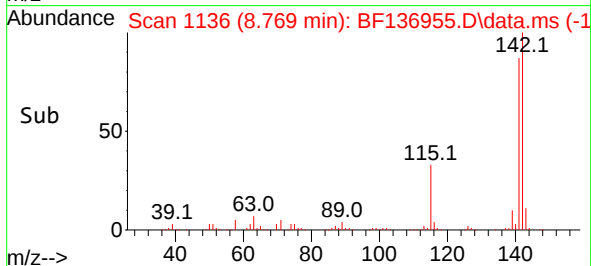
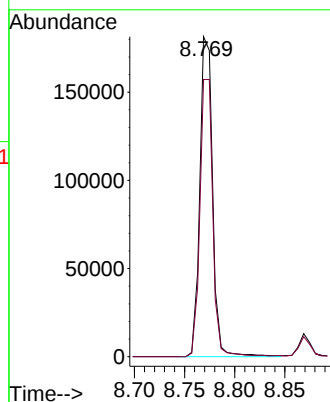
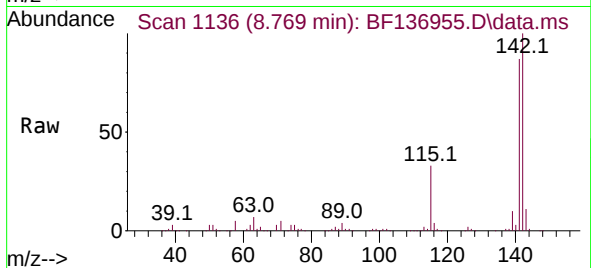
141 86.7 71.1 106.7

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#38

1-Methylnaphthalene

Concen: 2.141 ng m

RT: 8.869 min Scan# 1153

Delta R.T. -0.017 min

Lab File: BF136955.D

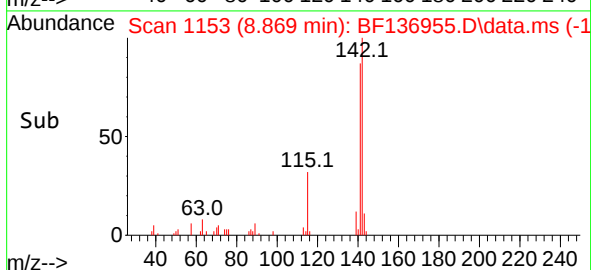
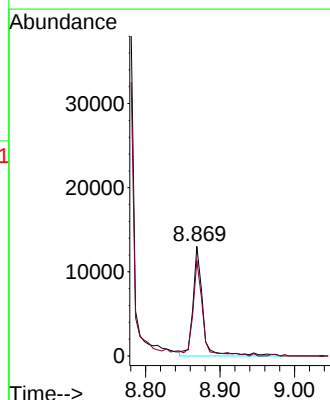
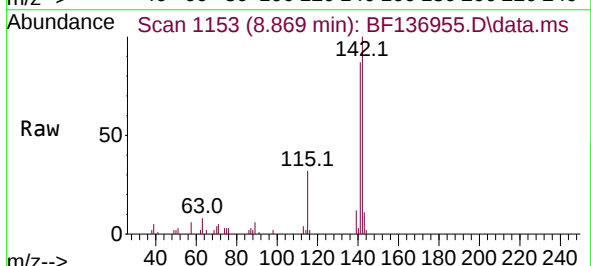
Acq: 04 Jan 2024 22:52

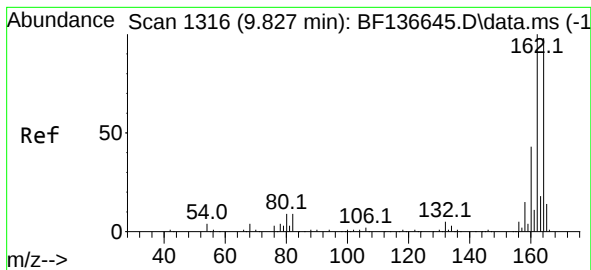
Tgt Ion:142 Resp: 11956

Ion Ratio Lower Upper

142 100

141 86.8 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136955.D

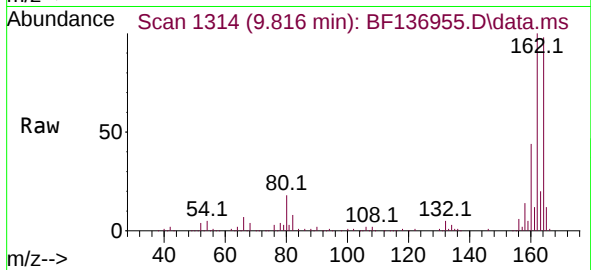
Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL



Tgt Ion:164 Resp: 8199

Ion Ratio Lower Upper

164 100

162 102.5 81.6 122.4

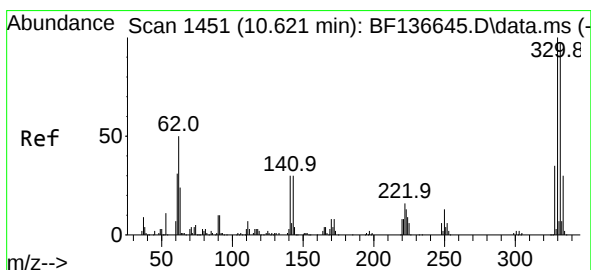
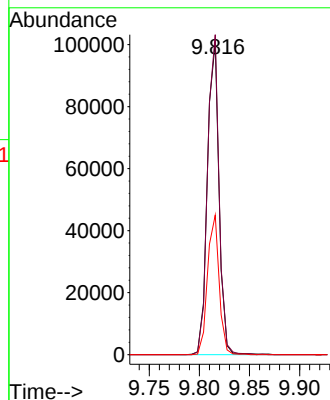
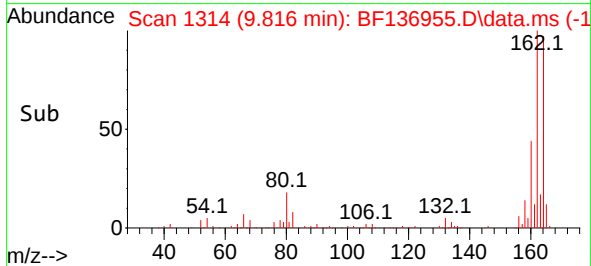
160 44.7 34.9 52.3

Manual Integrations

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Supervised By :mohammad ahmed 01/05/2024



#42

2,4,6-Tribromophenol

Concen: 8.365 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

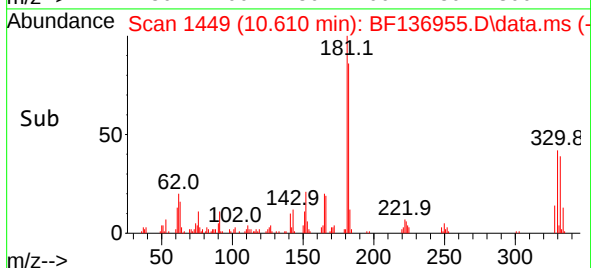
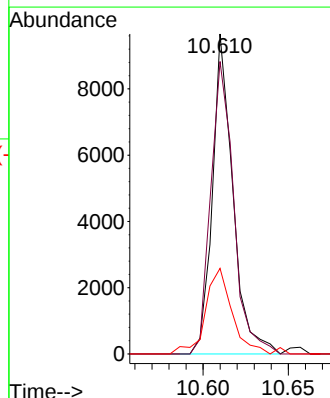
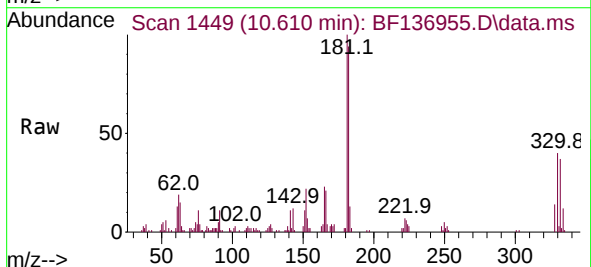
Tgt Ion:330 Resp: 8078

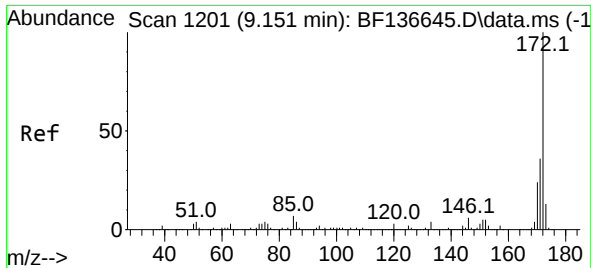
Ion Ratio Lower Upper

330 100

332 101.9 77.4 116.0

141 35.3 23.4 35.2#





#45

2-Fluorobiphenyl

Concen: 6.944 ng

RT: 9.134 min Scan# 1198

Delta R.T. -0.017 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

Tgt Ion:172 Resp: 42334

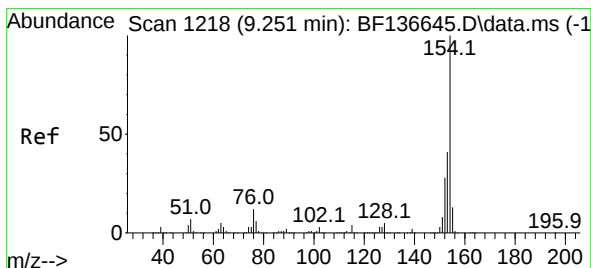
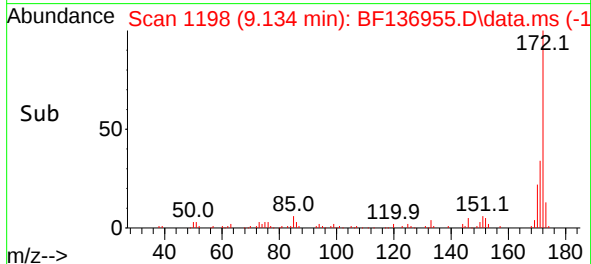
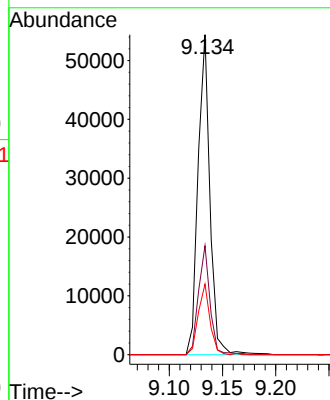
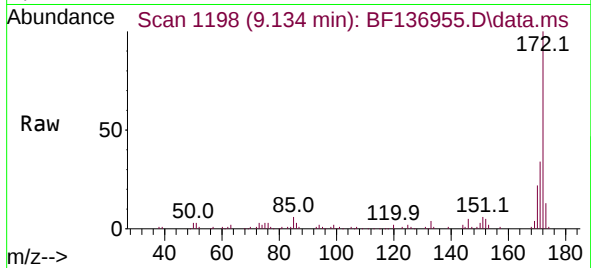
Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.0	43.6
170	22.1	19.0	28.4

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Supervised By :mohammad ahmed 01/05/2024



#46

1,1'-Biphenyl

Concen: 5.006 ng

RT: 9.234 min Scan# 1215

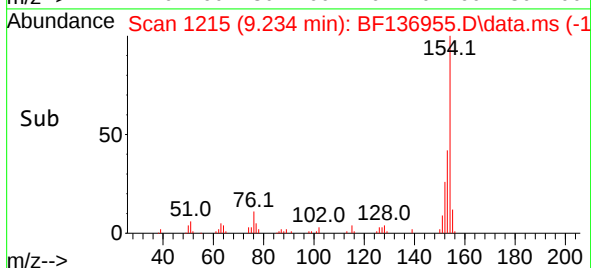
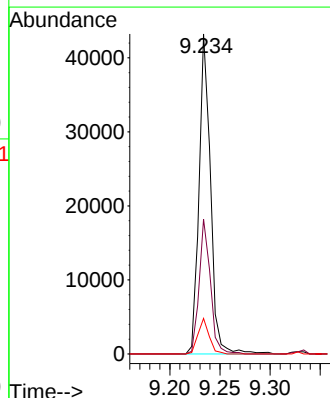
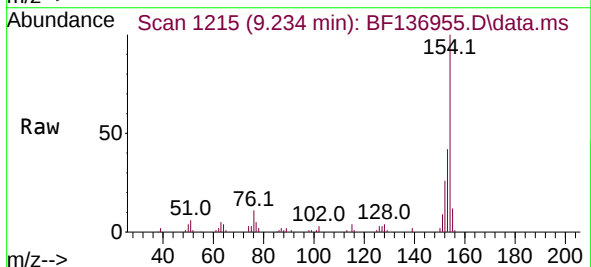
Delta R.T. -0.017 min

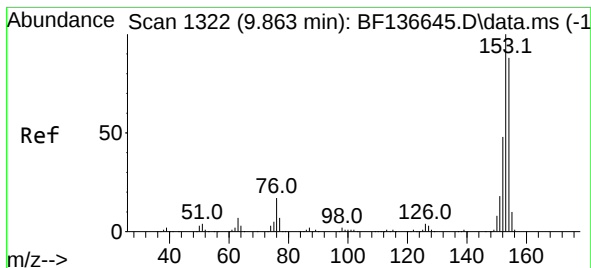
Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Tgt Ion:154 Resp: 34447

Ion	Ratio	Lower	Upper
154	100		
153	42.1	21.1	61.1
76	11.1	0.0	31.7





#52

Acenaphthene

Concen: 11.731 ng

RT: 9.845 min Scan# 11

Delta R.T. -0.017 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

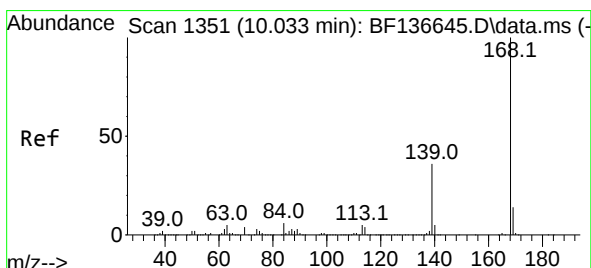
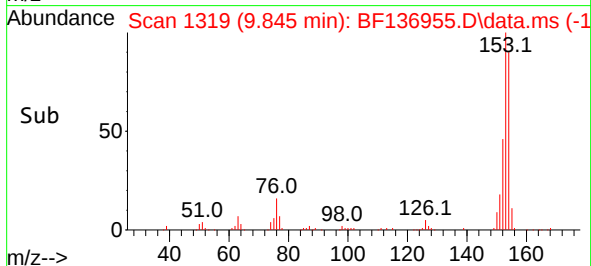
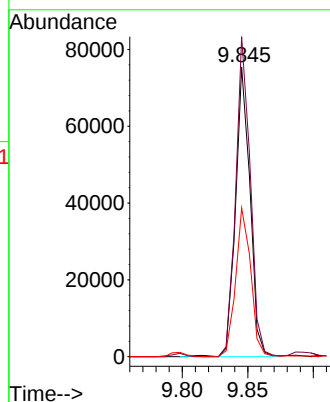
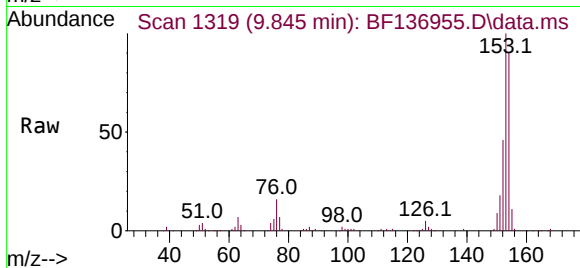
Tgt Ion:154	Resp: 5814
Ion Ratio	Lower Upper
154	100
153	110.5 90.7 136.1
152	51.4 43.7 65.5

Manual Integrations

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Supervised By :mohammad ahmed 01/05/2024



#55

Dibenzofuran

Concen: 35.178 ng

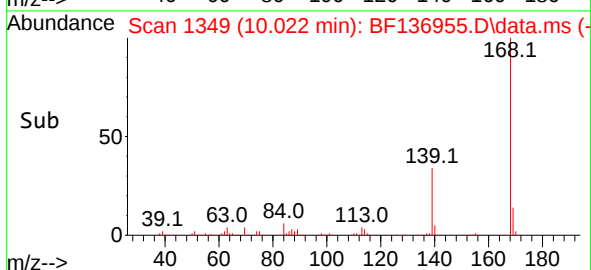
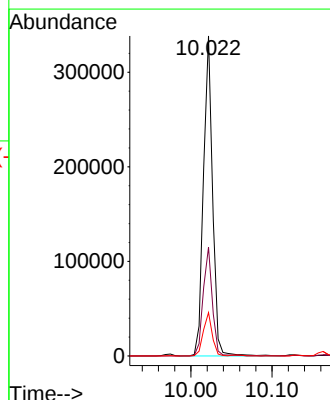
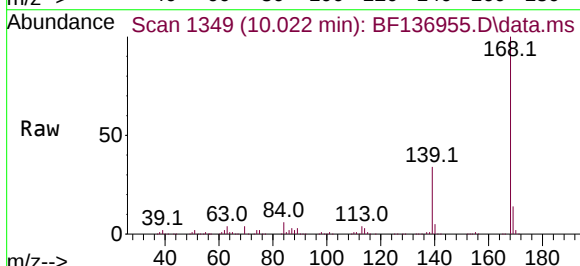
RT: 10.022 min Scan# 1349

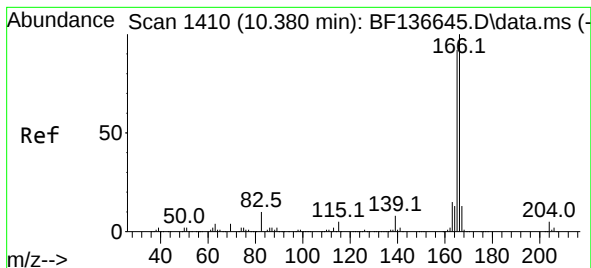
Delta R.T. -0.012 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

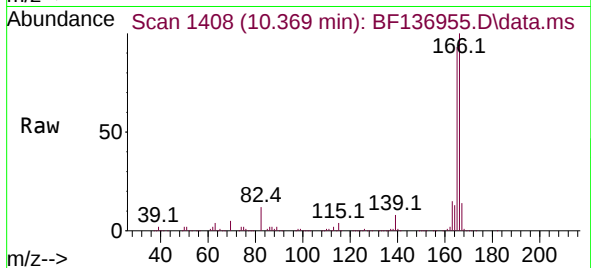
Tgt Ion:168	Resp: 264294
Ion Ratio	Lower Upper
168	100
139	34.0 29.3 43.9
169	13.6 11.0 16.4





#58
Fluorene
Concen: 93.971 ng
RT: 10.369 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

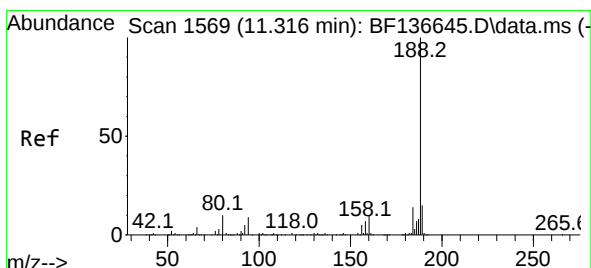
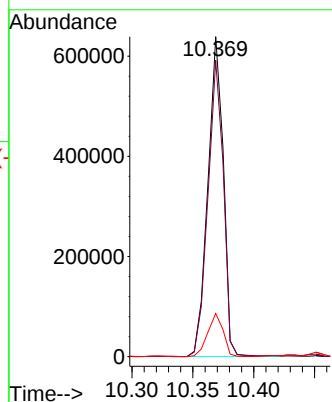
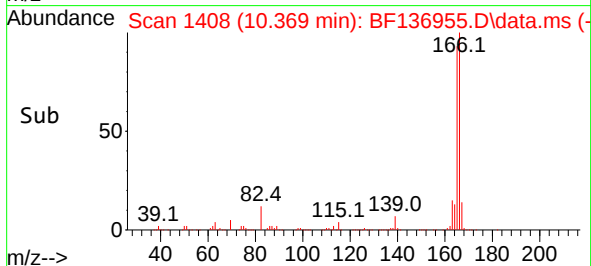
Instrument :
BNA_F
ClientSampleId :
GHL-SS-18-2-4DL



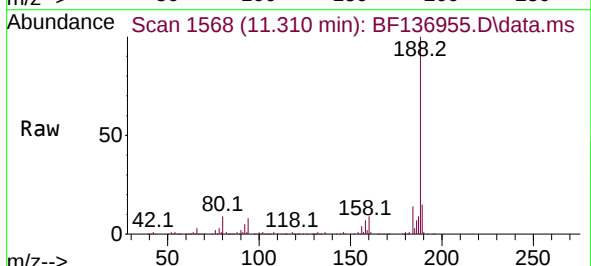
Tgt Ion:166 Resp: 56019
Ion Ratio Lower Upper
166 100
165 92.6 73.7 110.5
167 13.5 10.4 15.6

Manual Integrations
APPROVED

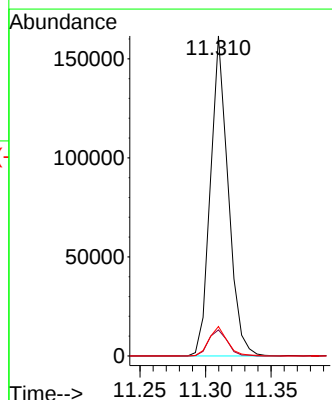
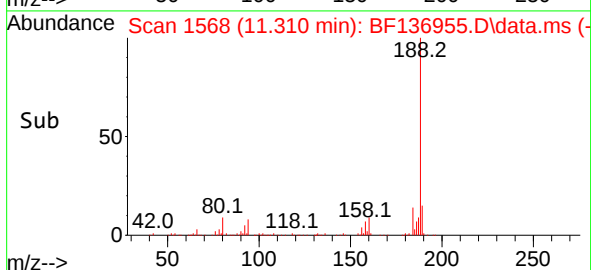
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

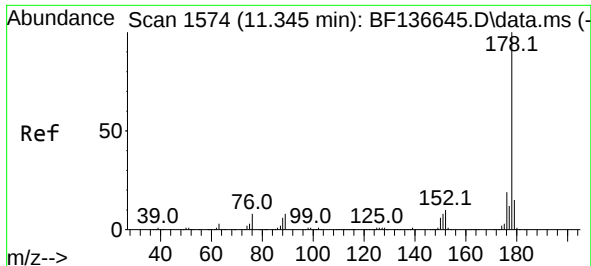


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



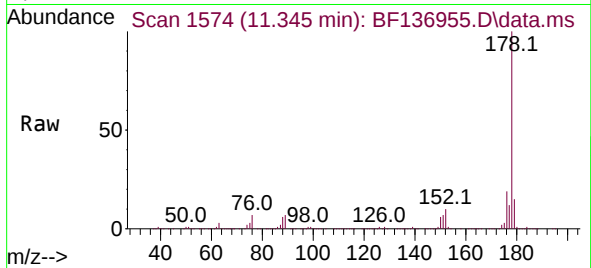
Tgt Ion:188 Resp: 152088
Ion Ratio Lower Upper
188 100
94 8.1 7.5 11.3
80 9.2 8.1 12.1





#71
Phenanthrene
Concen: 162.250 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

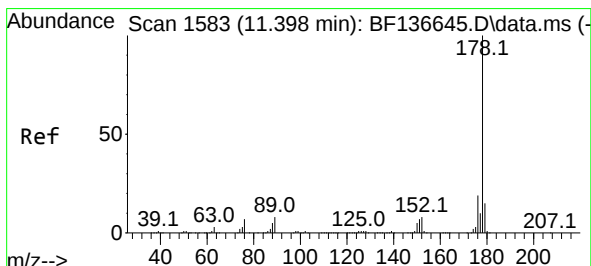
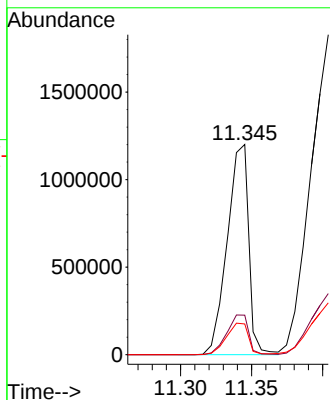
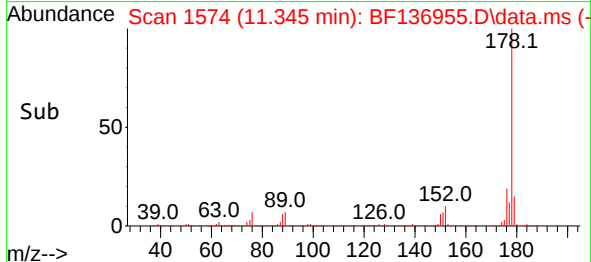
Instrument :
BNA_F
ClientSampleId :
GHL-SS-18-2-4DL



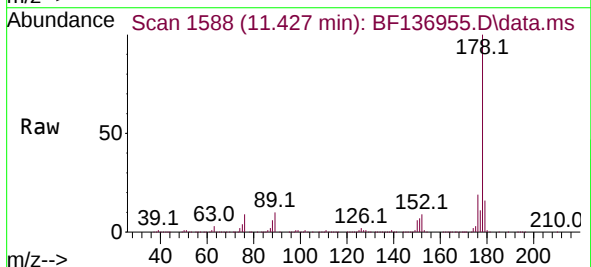
Tgt Ion:178 Resp: 126616
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 14.6 11.9 17.9

Manual Integrations
APPROVED

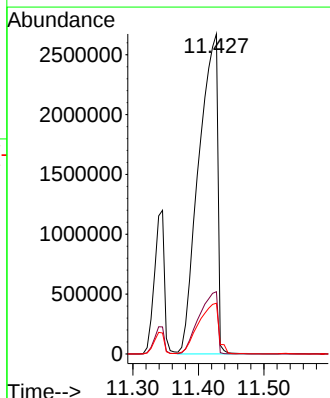
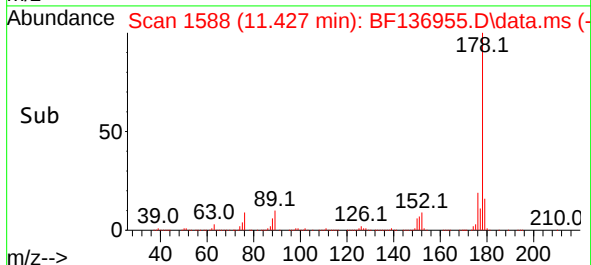
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

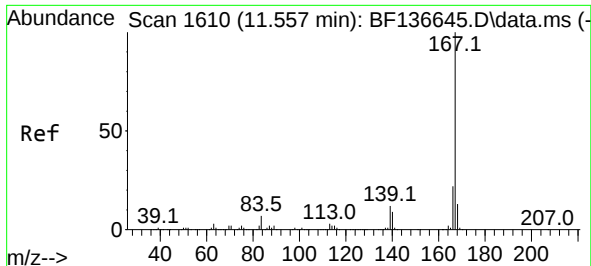


#72
Anthracene
Concen: 679.694 ng
RT: 11.427 min Scan# 1588
Delta R.T. 0.030 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



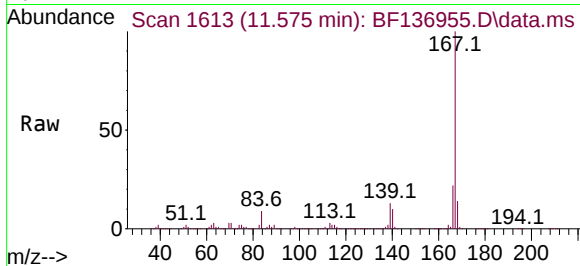
Tgt Ion:178 Resp: 5371686
Ion Ratio Lower Upper
178 100
176 19.4 14.9 22.3
179 15.9 11.8 17.6





#73
 Carbazole
 Concen: 333.887 ng
 RT: 11.575 min Scan# 1613
 Delta R.T. 0.018 min
 Lab File: BF136955.D
 Acq: 04 Jan 2024 22:52

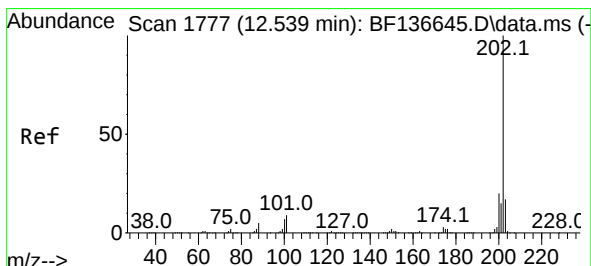
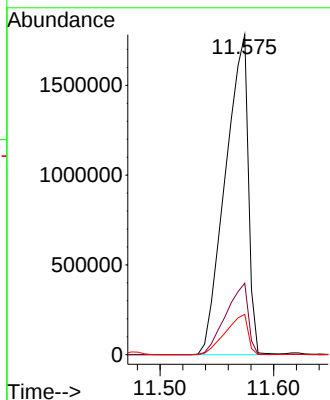
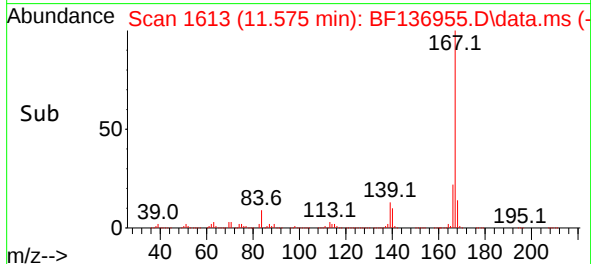
Instrument :
 BNA_F
 ClientSampleId :
 GHL-SS-18-2-4DL



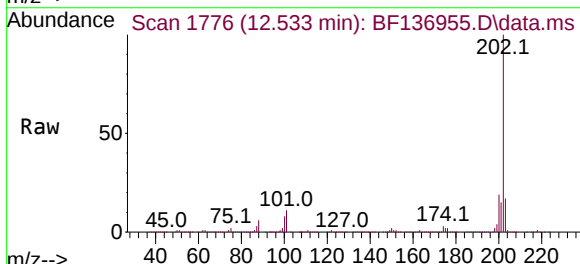
Tgt Ion:167 Resp: 248785
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.3 25.9
 139 12.6 9.8 14.6

Manual Integrations
 APPROVED

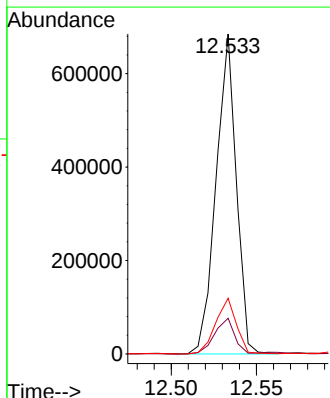
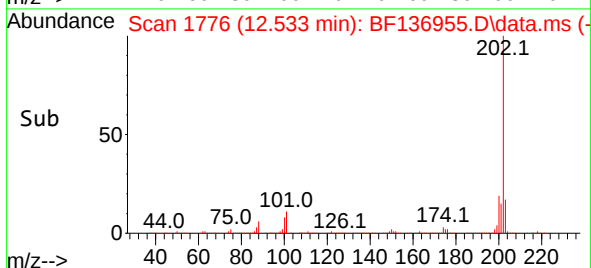
Reviewed By :Yogesh Patel 01/05/2024
 Supervised By :mohammad ahmed 01/05/2024

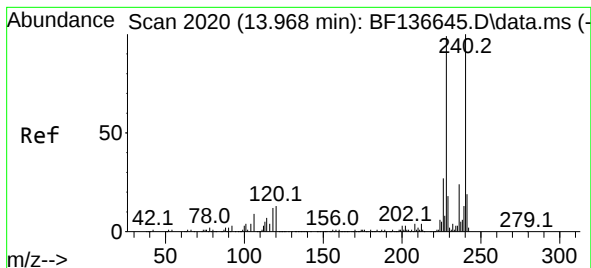


#75
 Fluoranthene
 Concen: 67.924 ng
 RT: 12.533 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF136955.D
 Acq: 04 Jan 2024 22:52



Tgt Ion:202 Resp: 566986
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 29.3
 203 17.4 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.969 min Scan# 2020

Delta R.T. 0.000 min

Lab File: BF136955.D

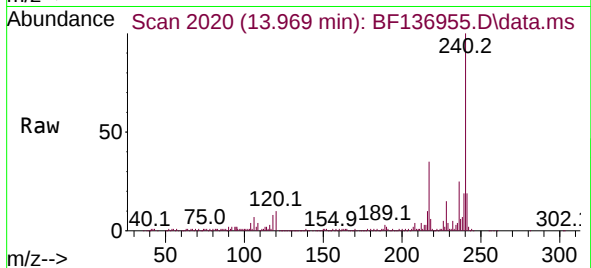
Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL



Tgt Ion:240 Resp: 105938

Ion Ratio Lower Upper

240 100

120 9.9 10.3 15.5

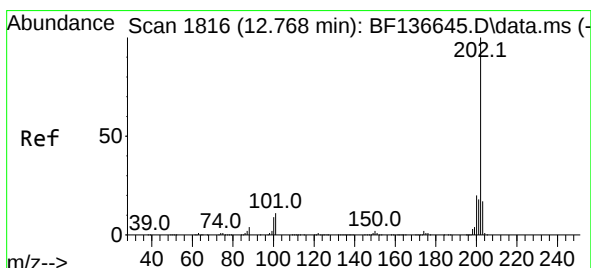
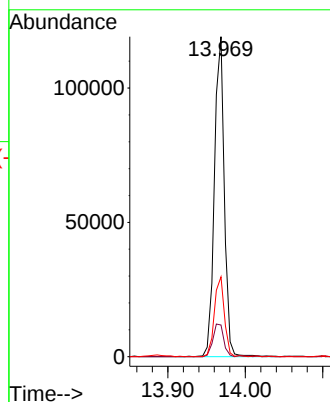
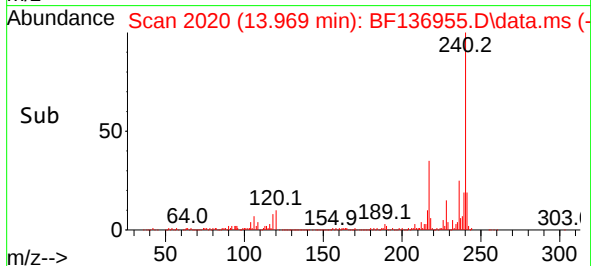
236 25.0 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/05/2024

Supervised By :mohammad ahmed 01/05/2024



#78

Pyrene

Concen: 36.892 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

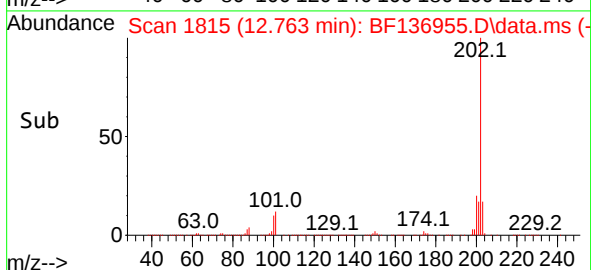
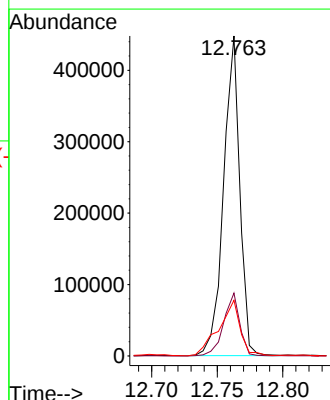
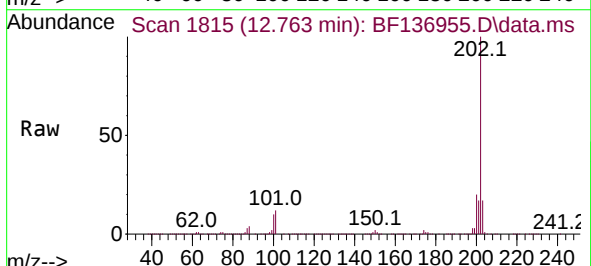
Tgt Ion:202 Resp: 383650

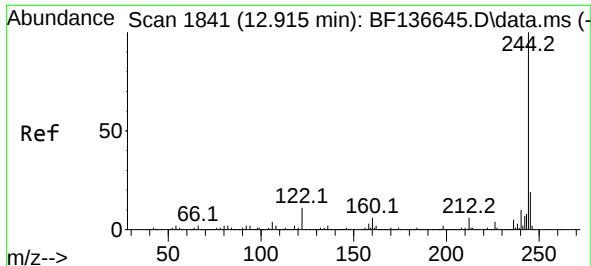
Ion Ratio Lower Upper

202 100

200 19.6 15.9 23.9

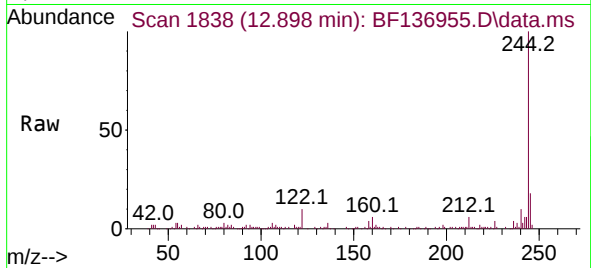
203 17.4 13.8 20.6





#79
Terphenyl-d14
Concen: 6.130 ng
RT: 12.898 min Scan# 1838
Delta R.T. -0.017 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

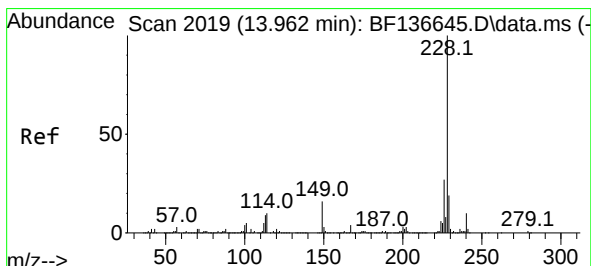
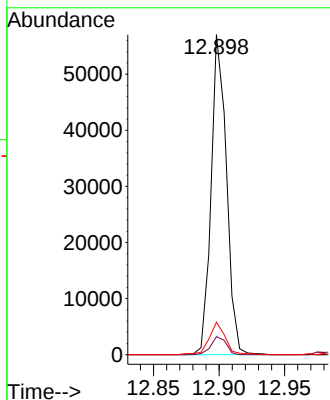
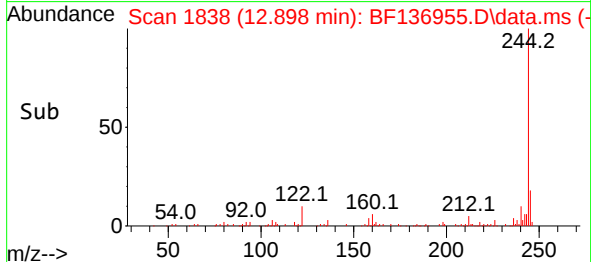
Instrument :
BNA_F
ClientSampleId :
GHL-SS-18-2-4DL



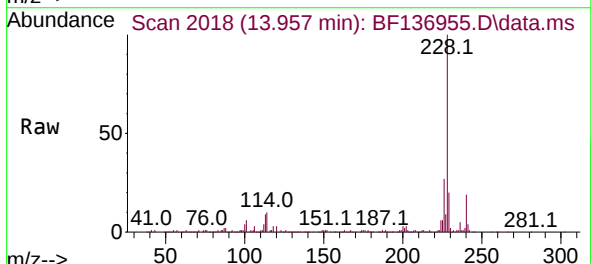
Tgt Ion:244 Resp: 4646
Ion Ratio Lower Upper
244 100
212 5.7 5.0 7.4
122 10.1 9.0 13.4

Manual Integrations
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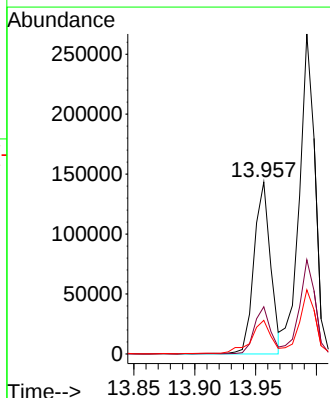
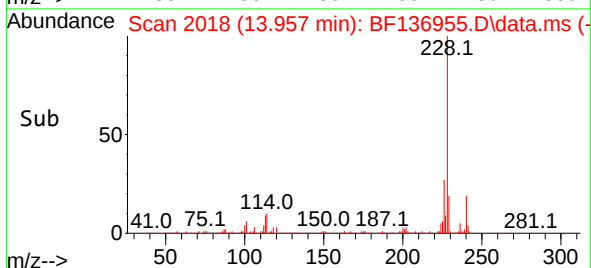
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

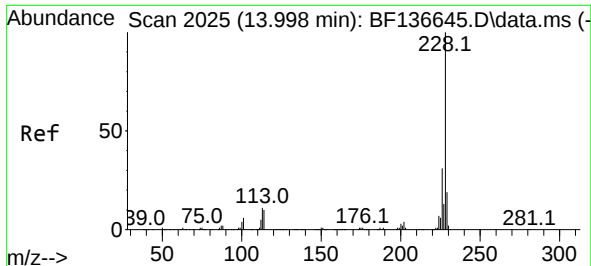


#81
Benzo(a)anthracene
Concen: 18.425 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



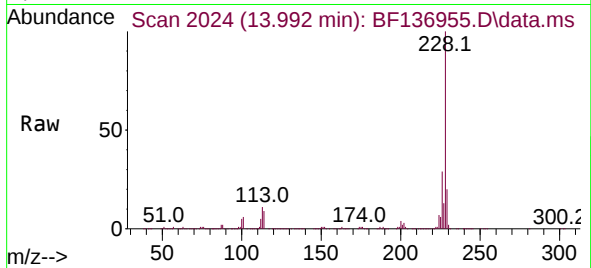
Tgt Ion:228 Resp: 135533
Ion Ratio Lower Upper
228 100
226 27.5 21.4 32.0
229 19.6 14.9 22.3





#83
Chrysene
Concen: 33.075 ng
RT: 13.992 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

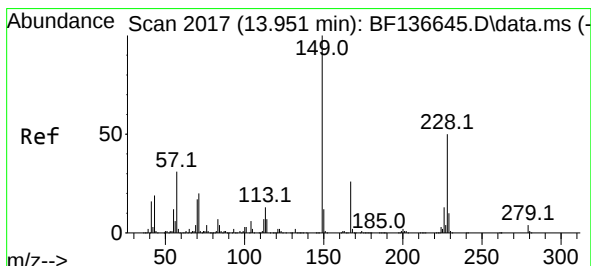
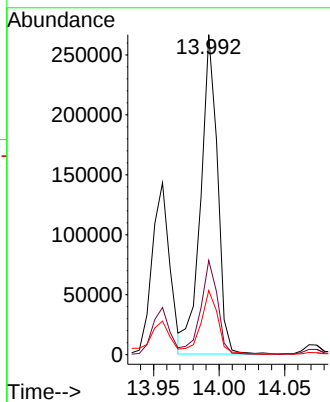
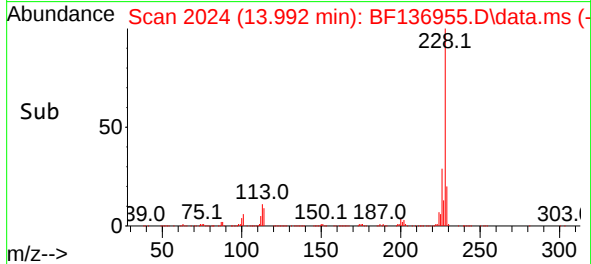
Instrument :
BNA_F
ClientSampleId :
GHL-SS-18-2-4DL



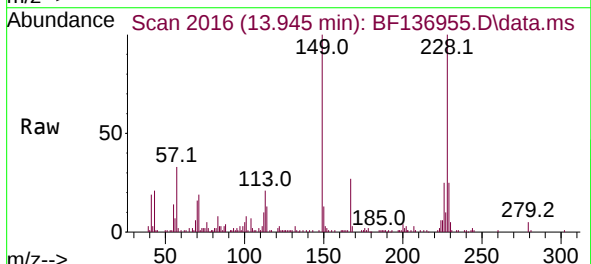
Tgt Ion:228 Resp: 23792
Ion Ratio Lower Upper
228 100
226 29.4 24.7 37.1
229 20.1 15.4 23.0

Manual Integrations
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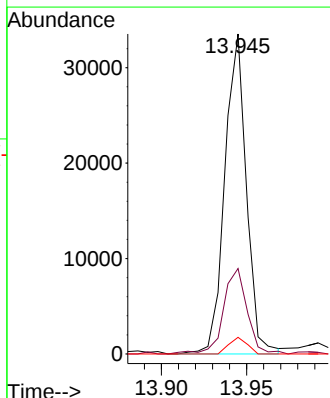
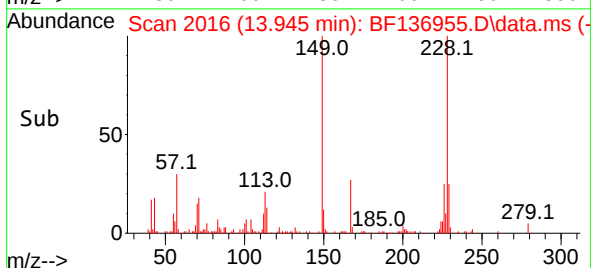
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

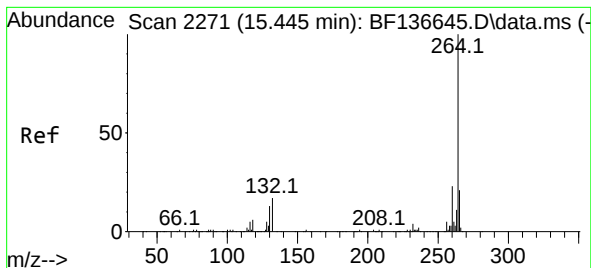


#84
Bis(2-ethylhexyl)phthalate
Concen: 6.206 ng
RT: 13.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



Tgt Ion:149 Resp: 29547
Ion Ratio Lower Upper
149 100
167 26.7 20.9 31.3
279 5.2 2.9 4.3#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

Tgt Ion:264 Resp: 11976

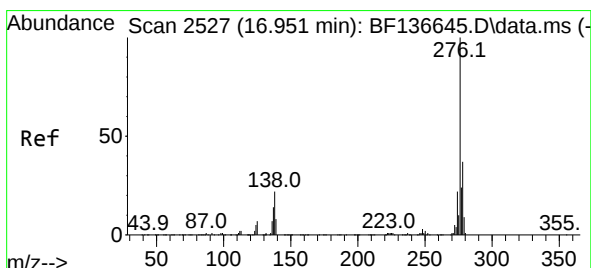
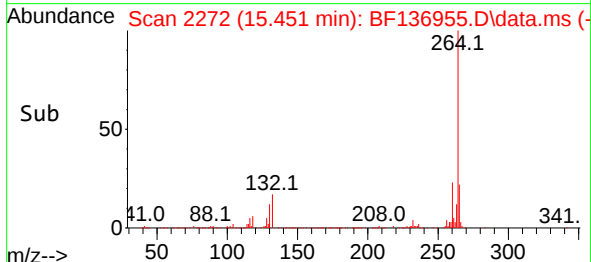
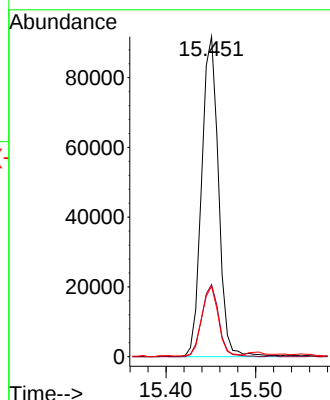
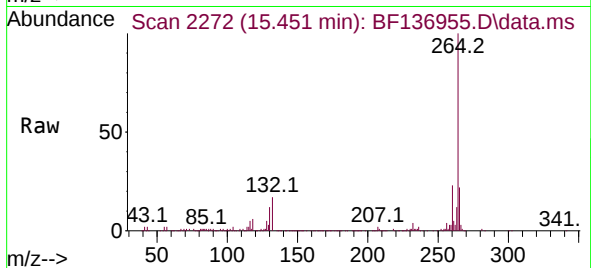
Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.3	27.5
265	22.0	17.0	25.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/05/2024

Supervised By :mohammad ahmed 01/05/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.614 ng

RT: 16.962 min Scan# 2529

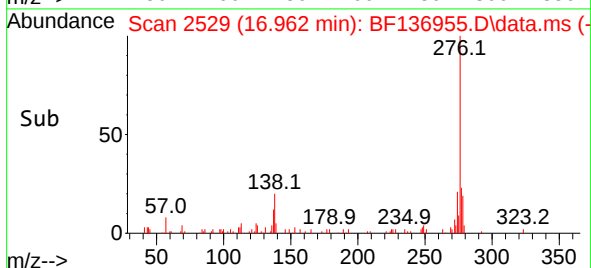
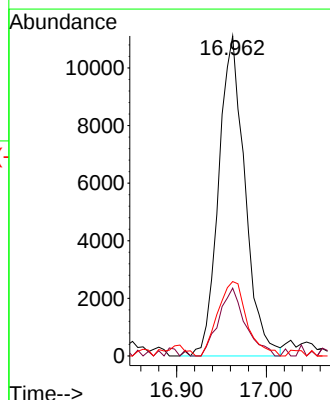
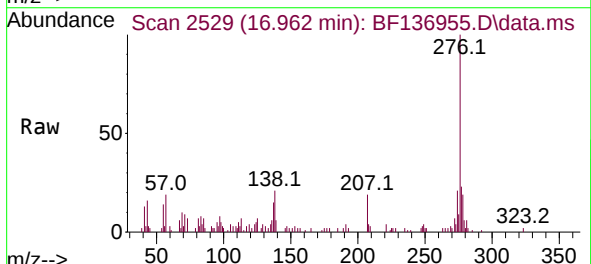
Delta R.T. 0.012 min

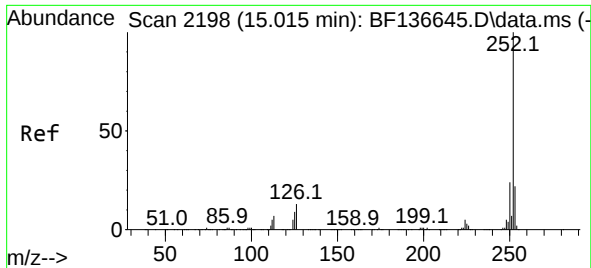
Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Tgt Ion:276 Resp: 22607

Ion	Ratio	Lower	Upper
276	100		
138	21.4	18.7	28.1
277	25.6	20.2	30.2





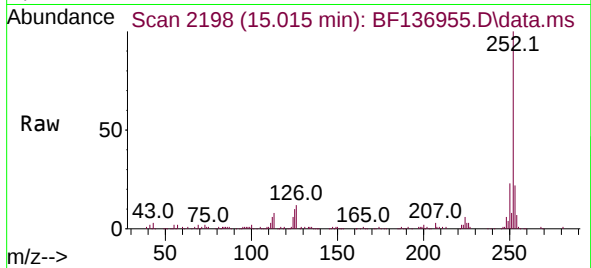
#88
Benzo(b)fluoranthene
Concen: 11.541 ng m
RT: 15.015 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

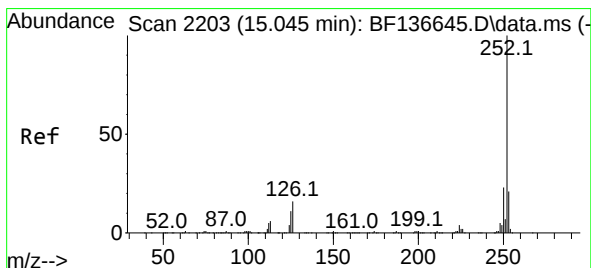
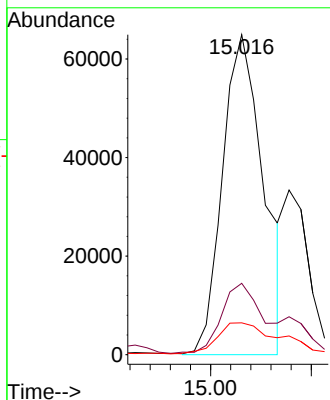
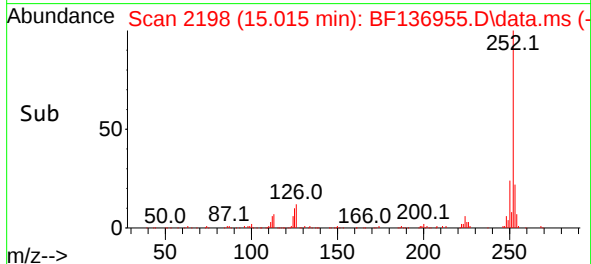


Tgt Ion:252 Resp: 92310
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 10.0 7.4 11.2

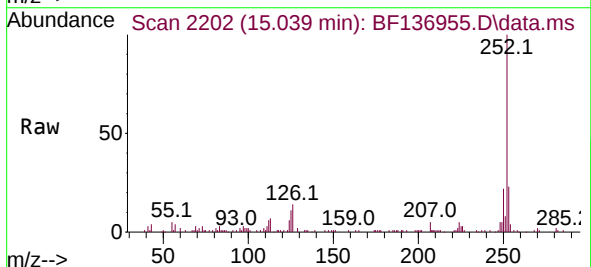
Manual Integrations

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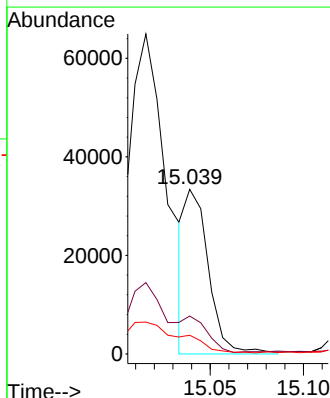
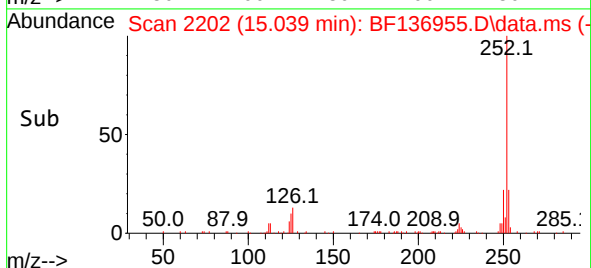
Reviewed By :Yogesh Patel 01/05/2024
Supervised By :mohammad ahmed 01/05/2024

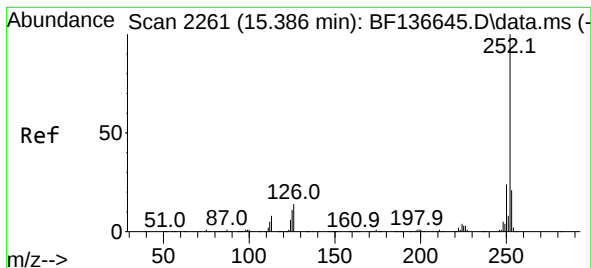


#89
Benzo(k)fluoranthene
Concen: 3.864 ng m
RT: 15.039 min Scan# 2202
Delta R.T. -0.006 min
Lab File: BF136955.D
Acq: 04 Jan 2024 22:52



Tgt Ion:252 Resp: 29208
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.6
125 11.4 8.2 12.4





#90

Benzo(a)pyrene

Concen: 7.017 ng

RT: 15.386 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Instrument :

BNA_F

ClientSampleId :

GHL-SS-18-2-4DL

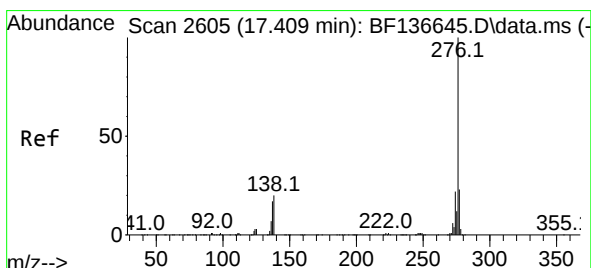
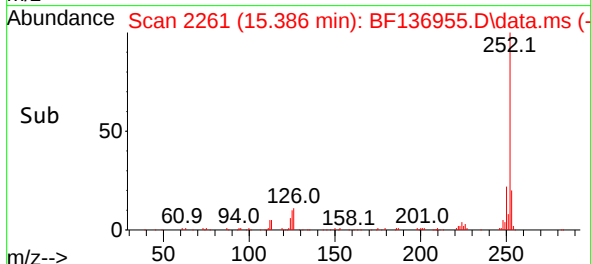
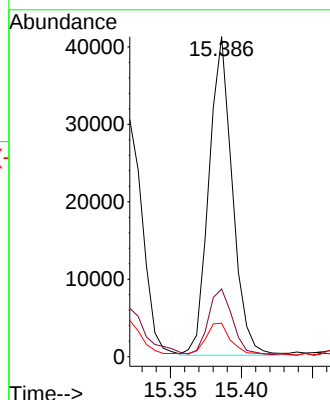
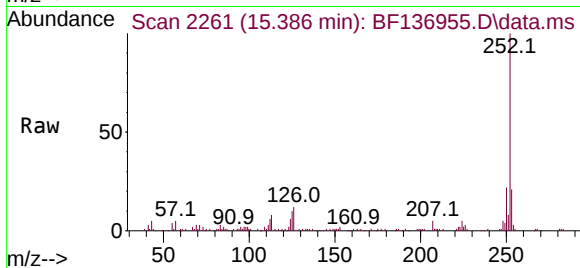
Tgt Ion:	252	Resp:	4738
Ion Ratio	Lower	Upper	
252	100		
253	21.2	17.0	25.6
125	10.5	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/05/2024

Supervised By :mohammad ahmed 01/05/2024



#92

Benzo(g,h,i)perylene

Concen: 2.549 ng

RT: 17.427 min Scan# 2608

Delta R.T. 0.018 min

Lab File: BF136955.D

Acq: 04 Jan 2024 22:52

Tgt Ion:	276	Resp:	18520
Ion Ratio	Lower	Upper	
276	100		
277	22.4	18.3	27.5
138	18.1	15.6	23.4

