

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
 Data File : BF135997.D
 Acq On : 27 Oct 2023 21:41
 Operator : CG\JU
 Sample : 04767-09DL 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q-1(5-10)DL

Quant Time: Oct 27 22:36:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 03:58:01 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	156860	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	578133	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	237105	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	387668	20.000	ng	0.00
76) Chrysene-d12	14.010	240	309807	20.000	ng	0.00
86) Perylene-d12	15.498	264	231824	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	148118	14.581	ng	-0.01
7) Phenol-d6	6.445	99	200299	15.838	ng	-0.01
23) Nitrobenzene-d5	7.381	82	103692	20.037	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	15188	7.318	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	211657	14.294	ng	0.00
79) Terphenyl-d14	12.951	244	206436	11.133	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	174222	6.233	ng	97
37) 2-Methylnaphthalene	8.816	142	44873	2.426	ng	100
49) Acenaphthylene	9.722	152	84468	4.029	ng	99
52) Acenaphthene	9.892	154	33895	2.523	ng	98
55) Dibenzofuran	10.069	168	101081	5.208	ng	98
58) Fluorene	10.410	166	109585	7.546	ng	100
71) Phenanthrene	11.380	178	885516	45.149	ng	100
72) Anthracene	11.427	178	287607	14.321	ng	99
73) Carbazole	11.586	167	87423	4.880	ng	99
75) Fluoranthene	12.580	202	1267360	61.421	ng	99
78) Pyrene	12.810	202	1070480	41.152	ng	100
81) Benzo(a)anthracene	14.004	228	519491	24.661	ng	95
83) Chrysene	14.039	228	450522	21.959	ng	98
87) Indeno(1,2,3-cd)pyrene	17.003	276	144493	10.992	ng	94
88) Benzo(b)fluoranthene	15.062	252	394178m	28.571	ng	
89) Benzo(k)fluoranthene	15.086	252	139990m	10.332	ng	
90) Benzo(a)pyrene	15.433	252	268706	21.133	ng	97
91) Dibenzo(a,h)anthracene	17.027	278	37243m	3.312	ng	
92) Benzo(g,h,i)perylene	17.462	276	130308	13.153	ng	97

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

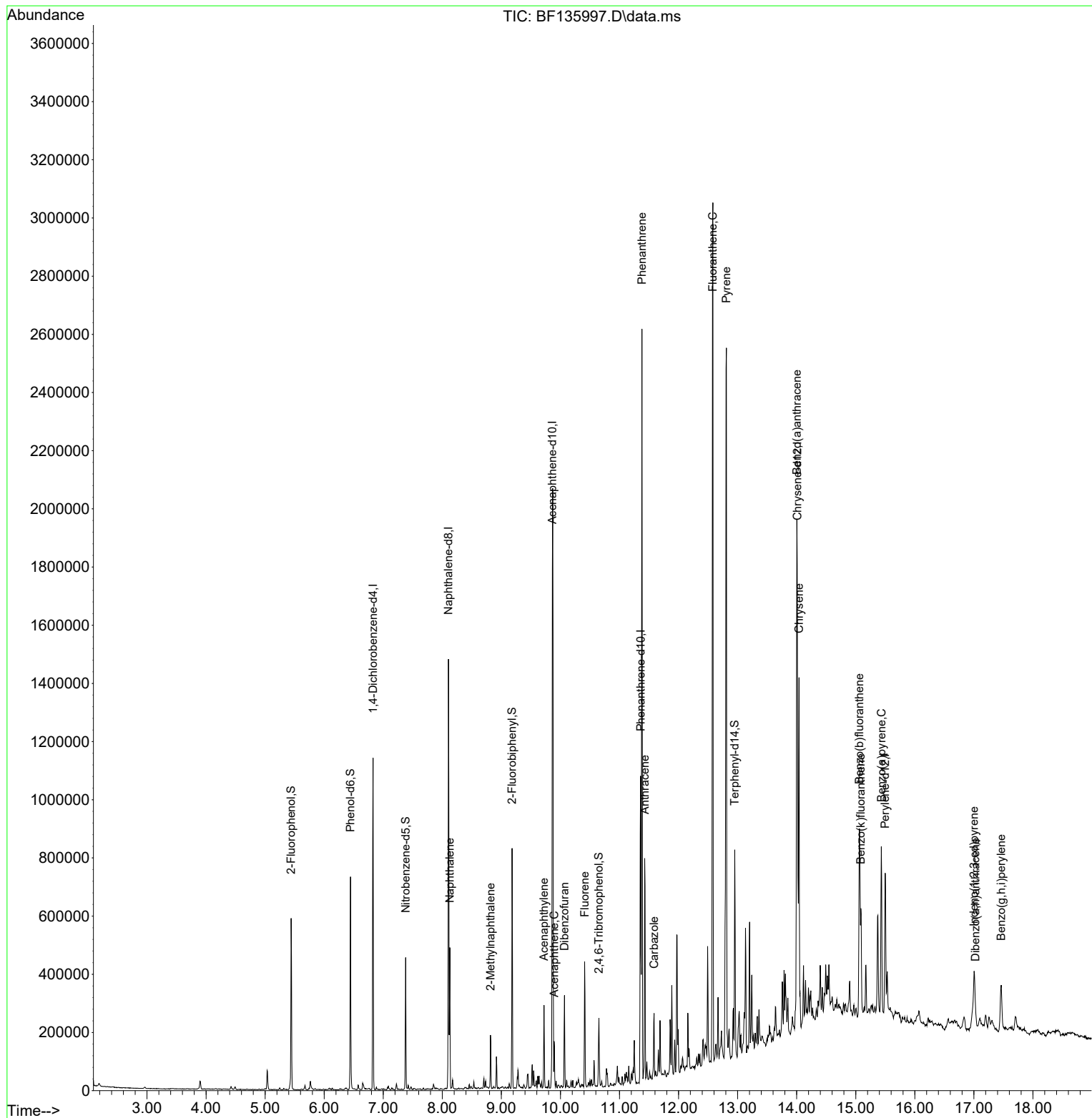
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
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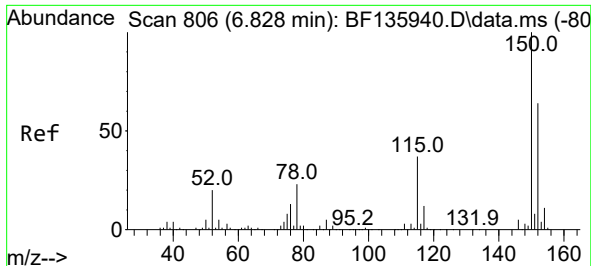
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL

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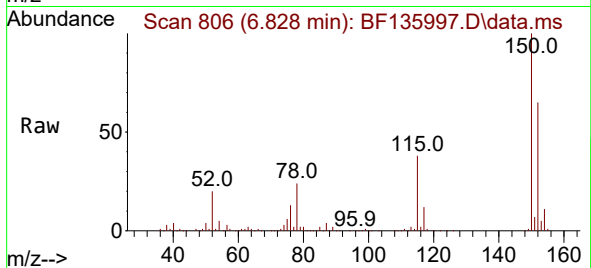
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

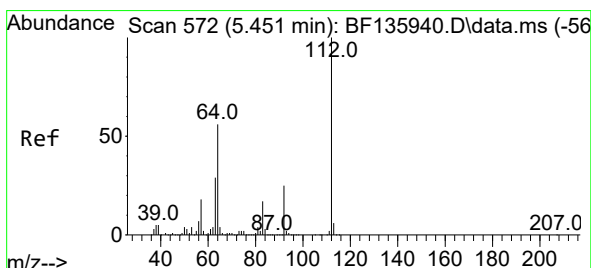
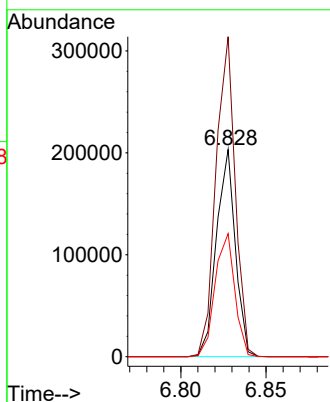
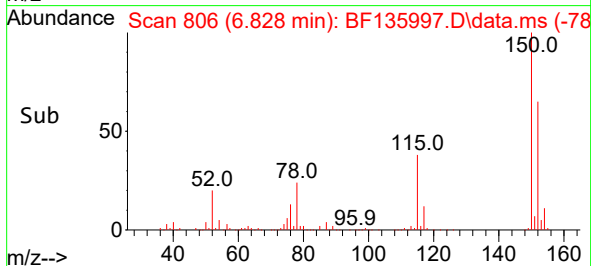
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BNA_F
ClientSampleId :
Q-1(5-10)DL



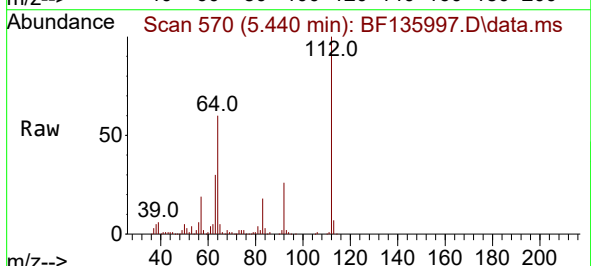
Tgt Ion:152 Resp: 156860
Ion Ratio Lower Upper
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150 154.5 124.6 186.8
115 59.4 46.6 69.8

Manual Integrations
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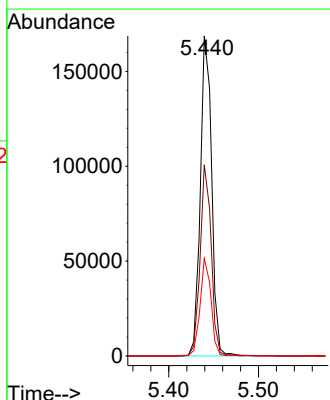
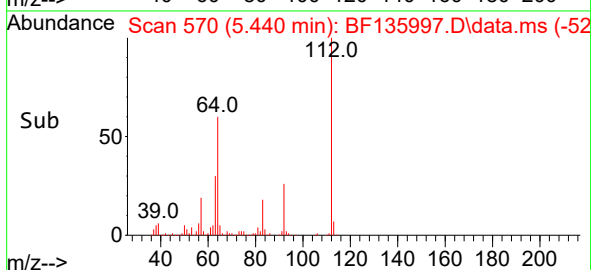
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

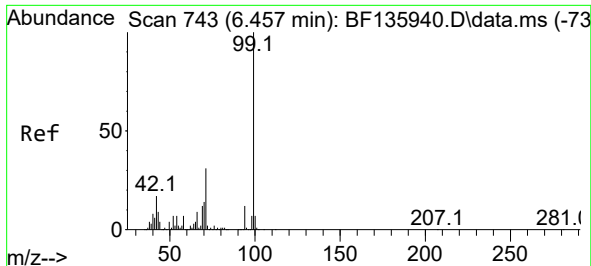


#5
2-Fluorophenol
Concen: 14.581 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41



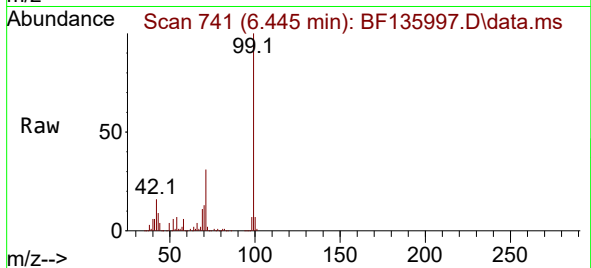
Tgt Ion:112 Resp: 148118
Ion Ratio Lower Upper
112 100
64 59.8 45.1 67.7
63 30.4 23.0 34.4





#7
Phenol-d6
Concen: 15.838 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

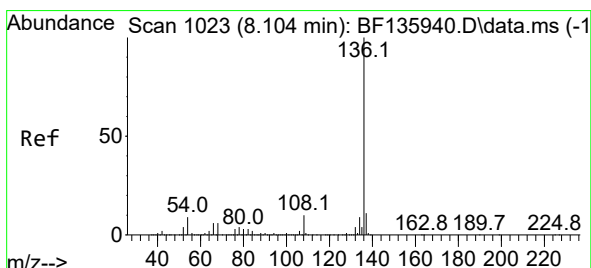
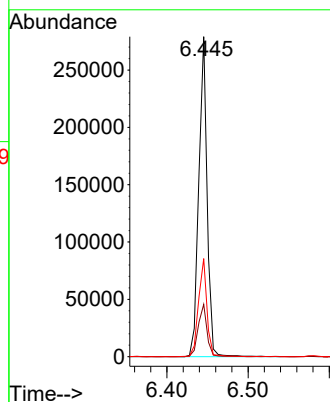
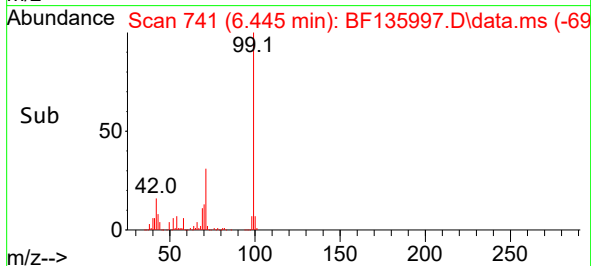
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL



Tgt Ion: 99 Resp: 200299
Ion Ratio Lower Upper
99 100
42 16.4 13.8 20.8
71 30.7 25.1 37.7

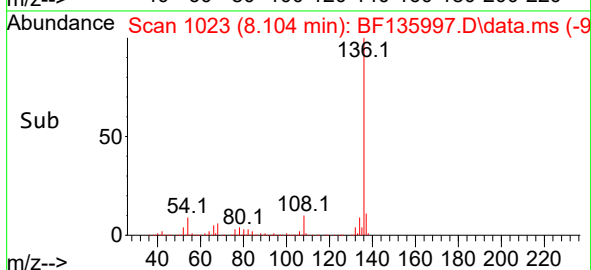
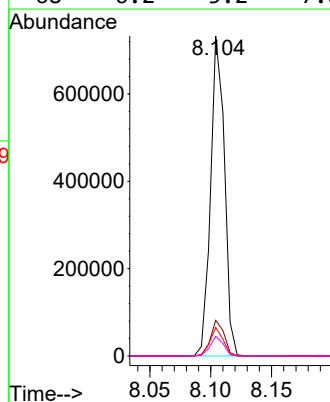
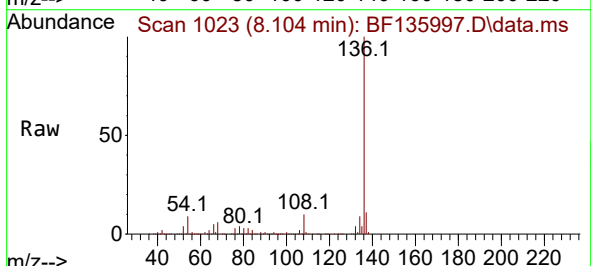
Manual Integrations
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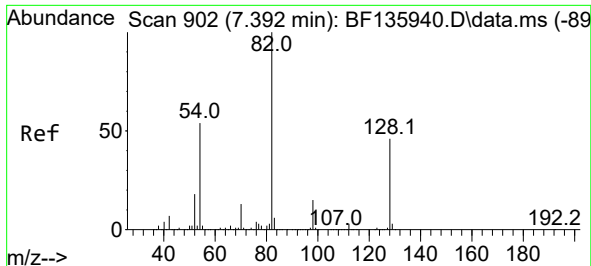
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Tgt Ion:136 Resp: 578133
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 8.9 7.1 10.7
68 6.2 5.2 7.8





#23

Nitrobenzene-d5

Concen: 20.037 ng

RT: 7.381 min Scan# 90

Delta R.T. -0.011 min

Lab File: BF135997.D

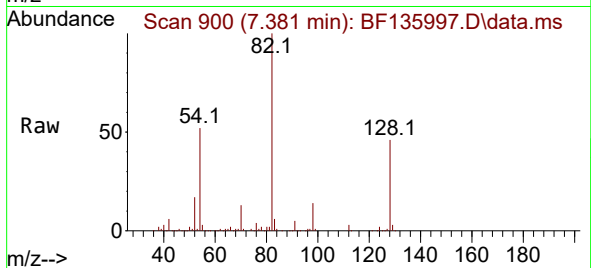
Acq: 27 Oct 2023 21:41

Instrument :

BNA_F

ClientSampleId :

Q-1(5-10)DL



Tgt Ion: 82 Resp: 103692

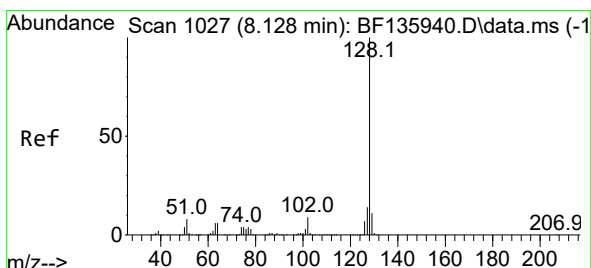
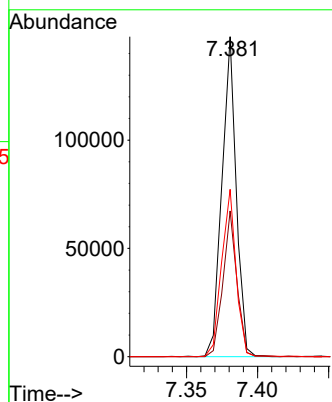
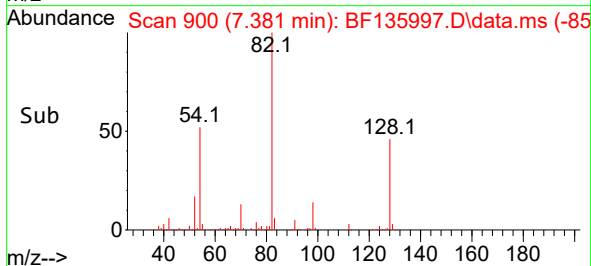
Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.8	55.2
54	52.3	43.4	65.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#31

Naphthalene

Concen: 6.233 ng

RT: 8.128 min Scan# 1027

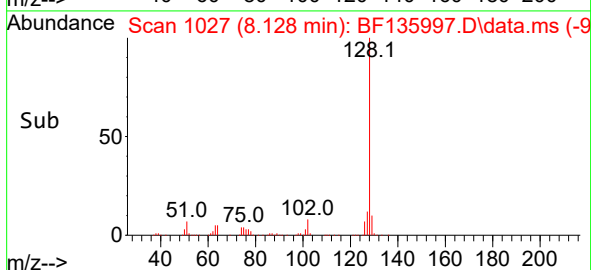
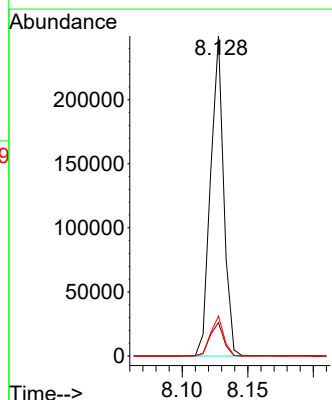
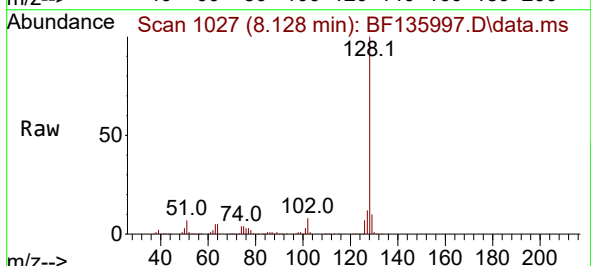
Delta R.T. 0.000 min

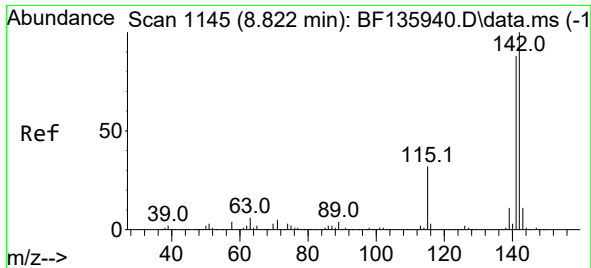
Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Tgt Ion:128 Resp: 174222

Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.0	13.6
127	12.5	10.9	16.3





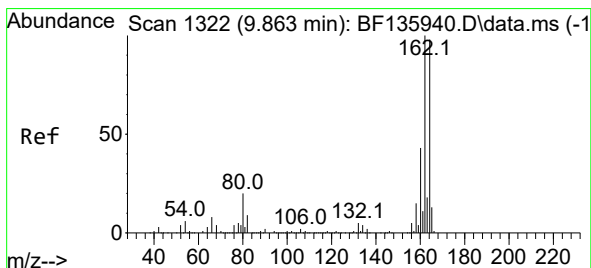
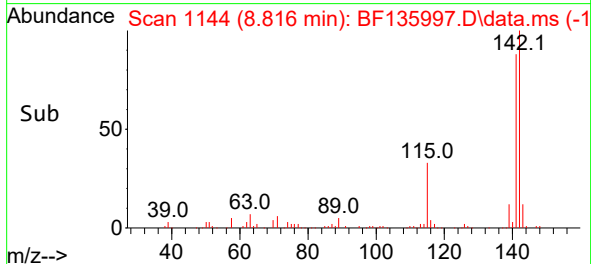
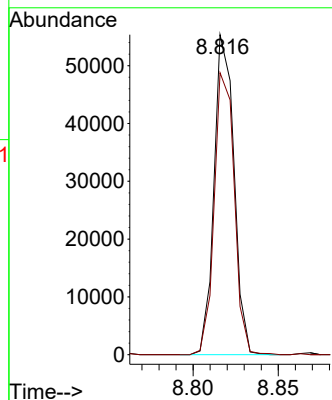
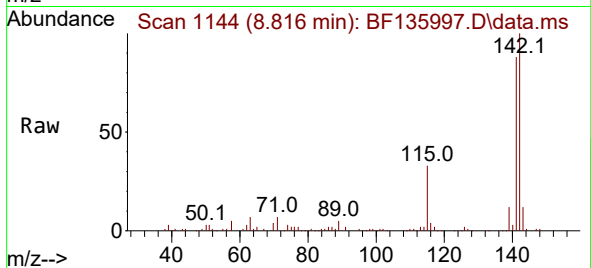
#37
2-Methylnaphthalene
Concen: 2.426 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL

Tgt Ion:142 Resp: 4487
Ion Ratio Lower Upper
142 100
141 88.1 70.4 105.6

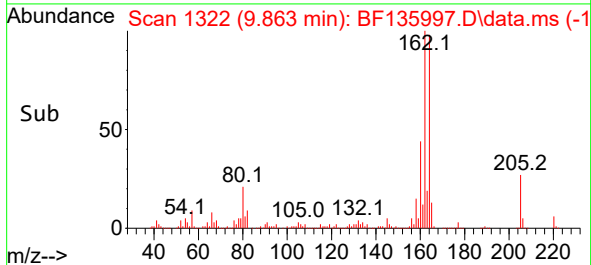
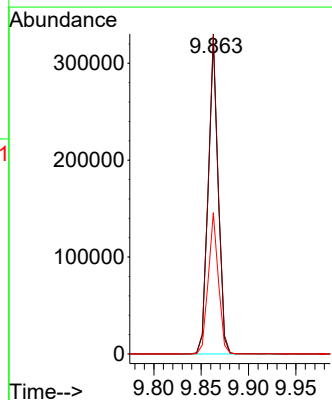
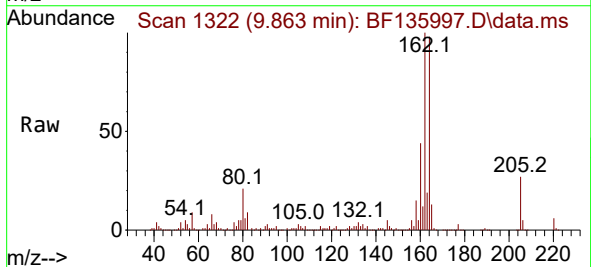
Manual Integrations
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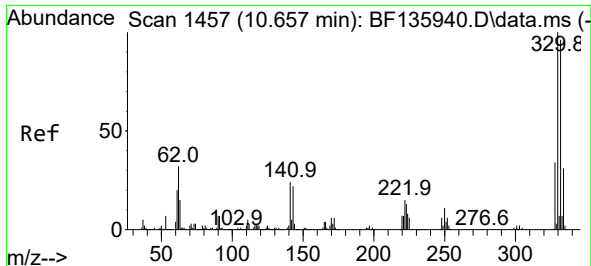
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

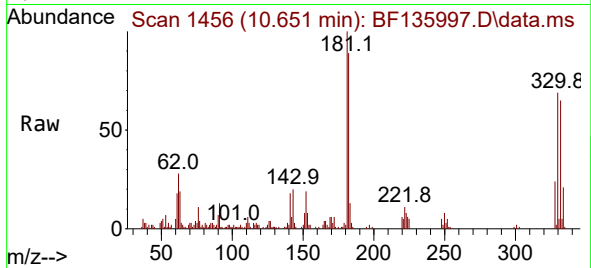
Tgt Ion:164 Resp: 237105
Ion Ratio Lower Upper
164 100
162 101.8 82.0 123.0
160 44.9 35.6 53.4





#42
 2,4,6-Tribromophenol
 Concen: 7.318 ng
 RT: 10.651 min Scan# 1457
 Delta R.T. -0.006 min
 Lab File: BF135997.D
 Acq: 27 Oct 2023 21:41

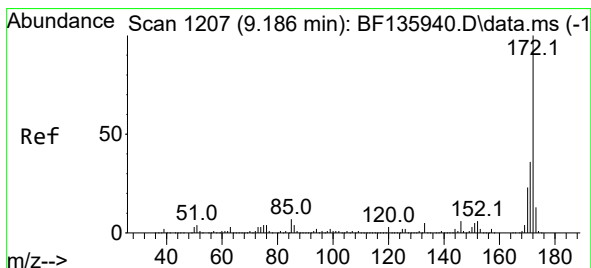
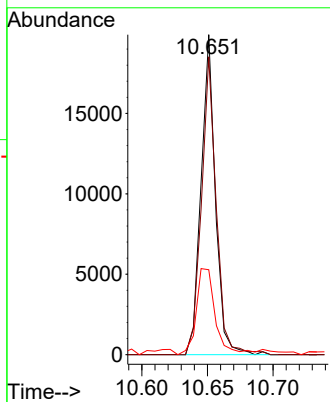
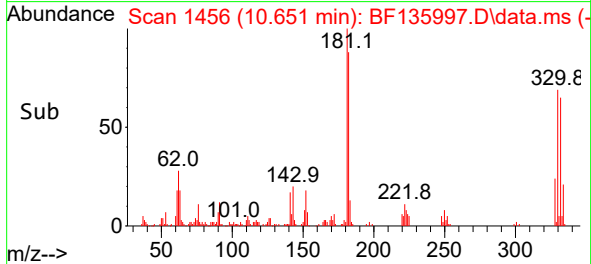
Instrument :
 BNA_F
 ClientSampleId :
 Q-1(5-10)DL



Tgt Ion: 330 Resp: 1518
 Ion Ratio Lower Upper
 330 100
 332 96.2 77.4 116.2
 141 35.7 24.9 37.3

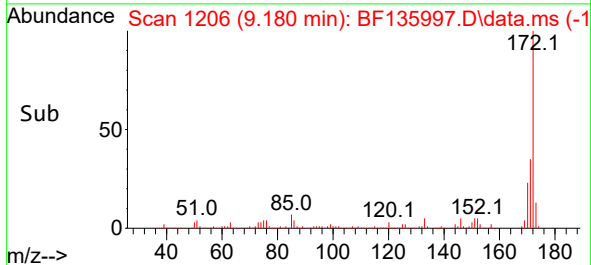
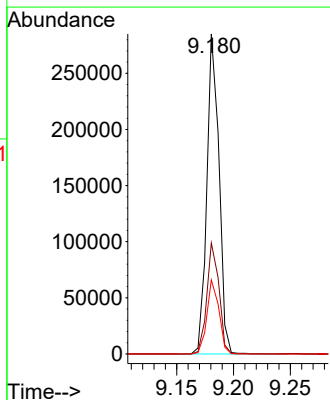
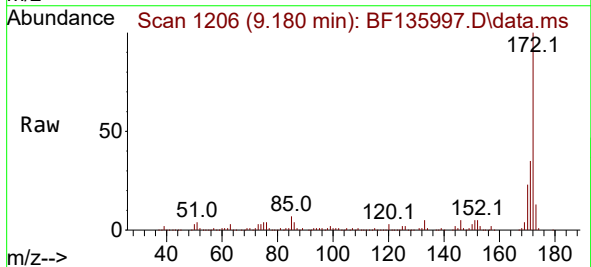
Manual Integrations
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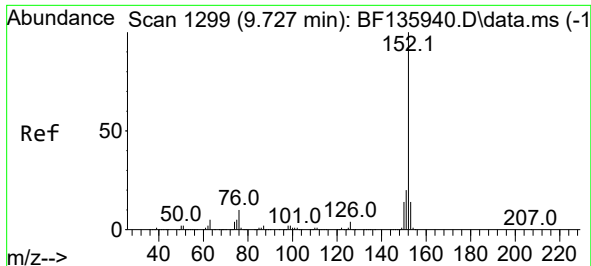
Reviewed By : Yogesh Patel 10/28/2023
 Supervised By : mohammad ahmed 10/28/2023



#45
 2-Fluorobiphenyl
 Concen: 14.294 ng
 RT: 9.180 min Scan# 1206
 Delta R.T. -0.006 min
 Lab File: BF135997.D
 Acq: 27 Oct 2023 21:41

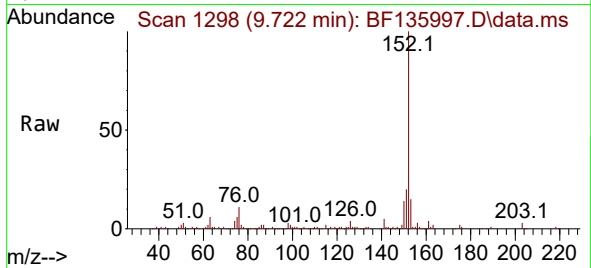
Tgt Ion: 172 Resp: 211657
 Ion Ratio Lower Upper
 172 100
 171 34.7 28.6 43.0
 170 23.1 18.6 28.0





#49
Acenaphthylene
Concen: 4.029 ng
RT: 9.722 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

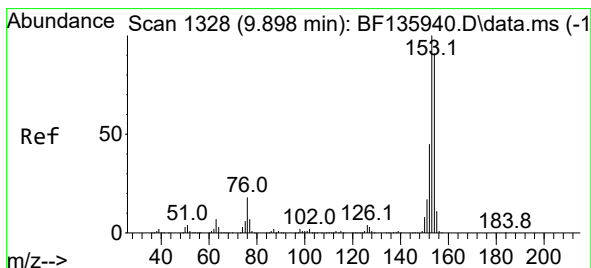
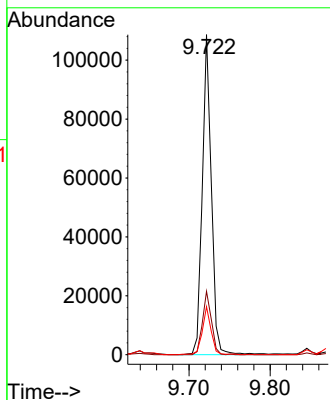
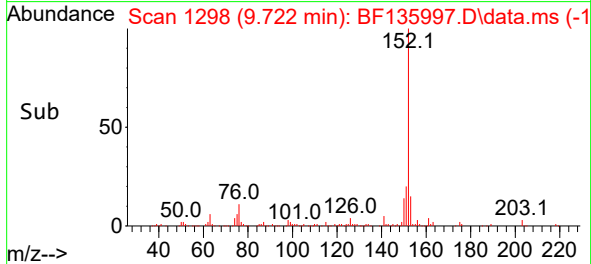
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL



Tgt Ion:152 Resp: 84468
Ion Ratio Lower Upper
152 100
151 19.8 16.0 24.0
153 15.0 11.0 16.6

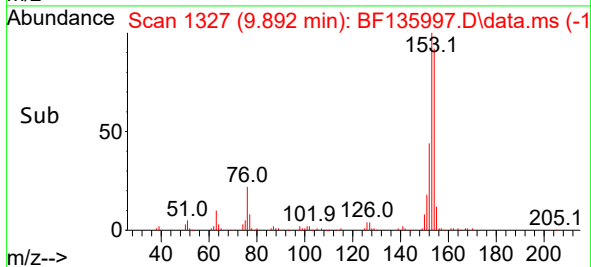
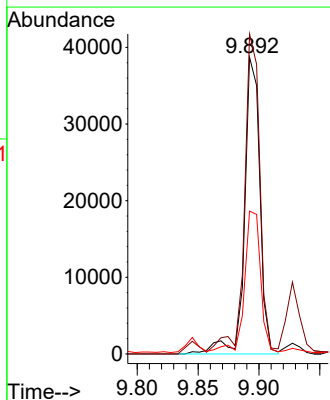
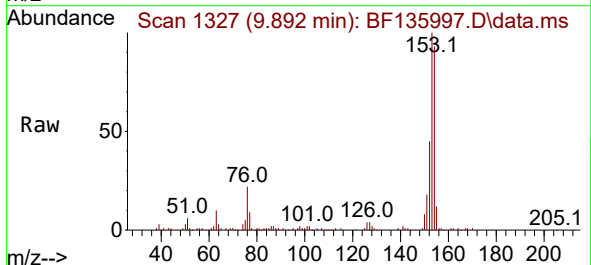
Manual Integrations
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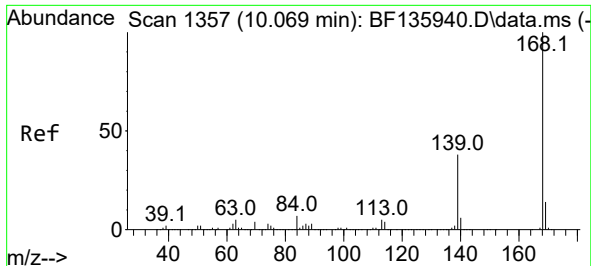
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#52
Acenaphthene
Concen: 2.523 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

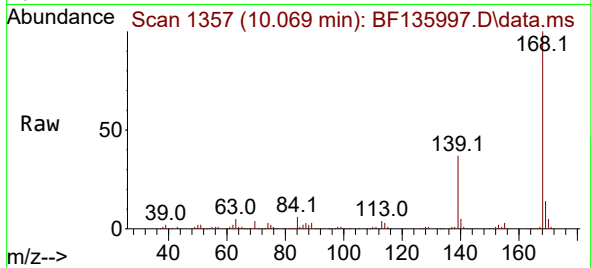
Tgt Ion:154 Resp: 33895
Ion Ratio Lower Upper
154 100
153 107.9 88.0 132.0
152 48.2 39.4 59.2





#55
Dibenzofuran
Concen: 5.208 ng
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

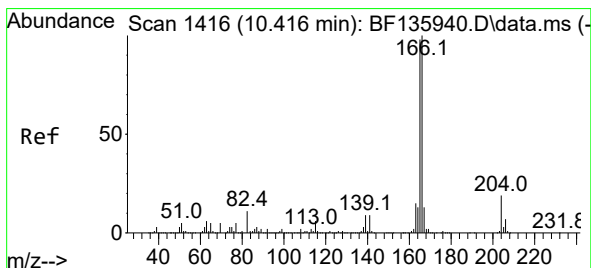
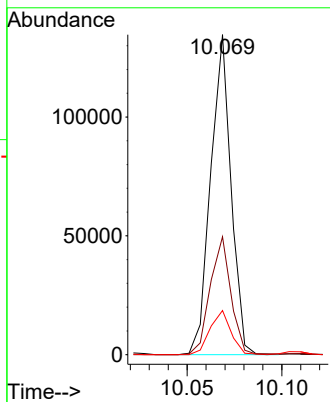
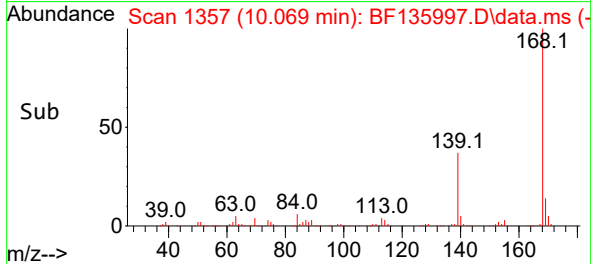
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL



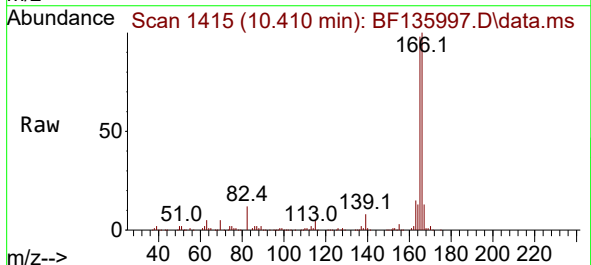
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Ion Ratio Lower Upper
168 100
139 36.9 30.7 46.1
169 13.8 11.1 16.7

Manual Integrations
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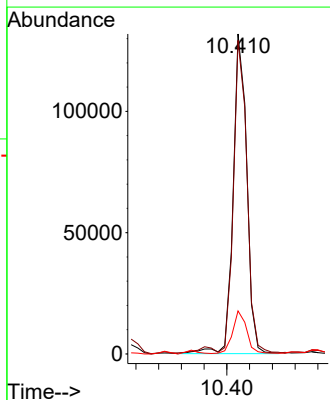
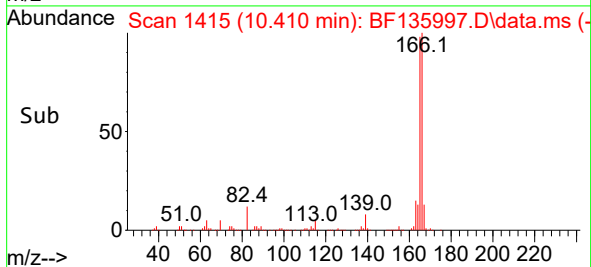
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

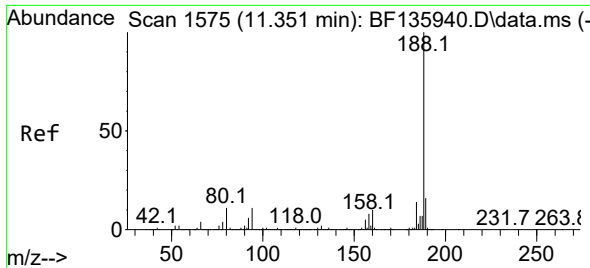


#58
Fluorene
Concen: 7.546 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41



Tgt Ion:166 Resp: 109585
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.5 10.6 16.0





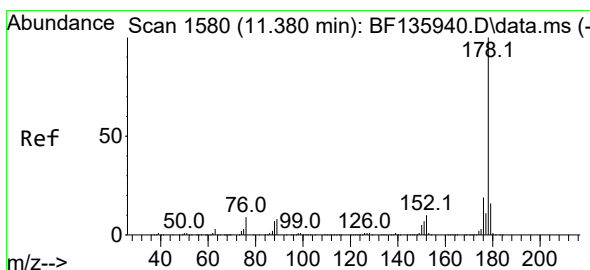
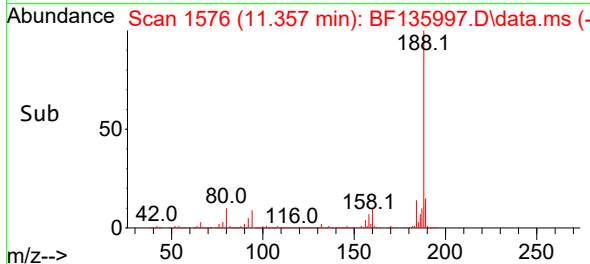
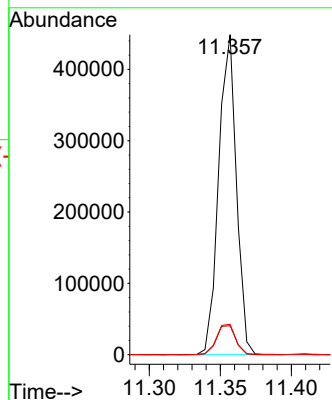
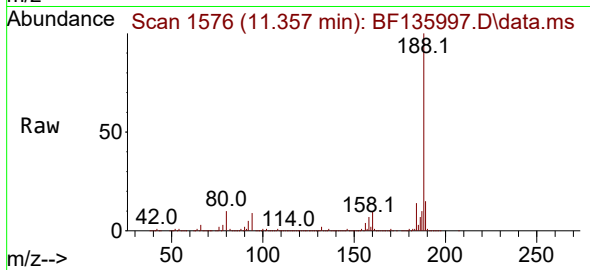
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. 0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL

Tgt Ion:188 Resp: 387668
Ion Ratio Lower Upper
188 100
94 9.1 8.6 13.0
80 9.5 9.0 13.6

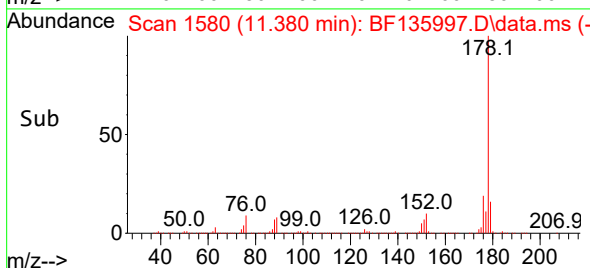
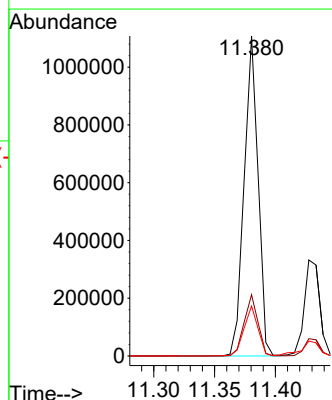
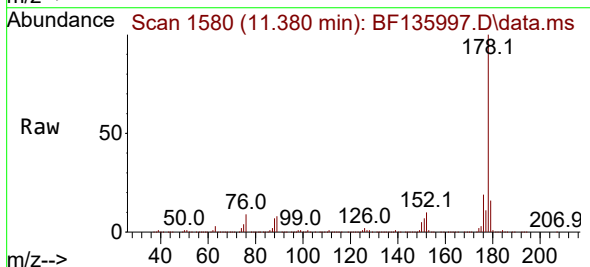
Manual Integrations
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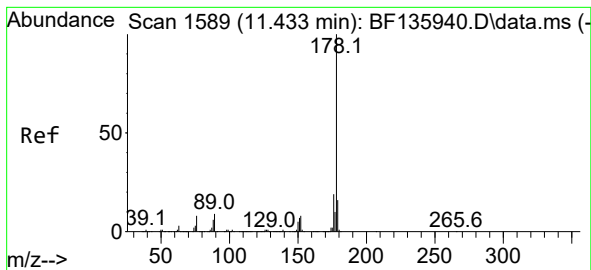
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#71
Phenanthrene
Concen: 45.149 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Tgt Ion:178 Resp: 885516
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.6 12.5 18.7





#72

Anthracene

Concen: 14.321 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Instrument :

BNA_F

ClientSampleId :

Q-1(5-10)DL

Tgt Ion:178 Resp: 28760

Ion Ratio Lower Upper

178 100

176 18.1 14.9 22.3

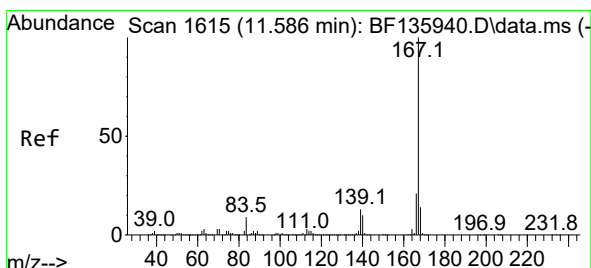
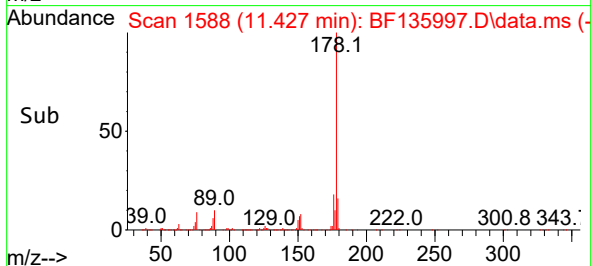
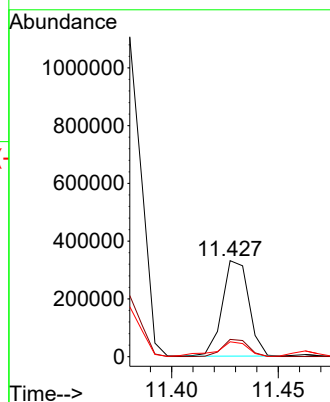
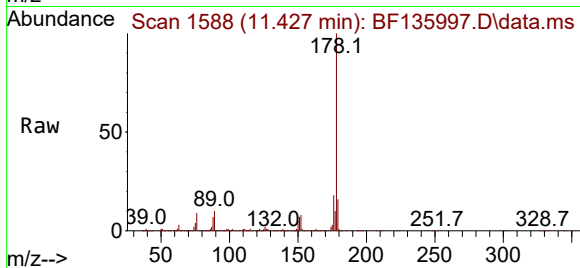
179 15.6 12.5 18.7

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#73

Carbazole

Concen: 4.880 ng

RT: 11.586 min Scan# 1615

Delta R.T. 0.000 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

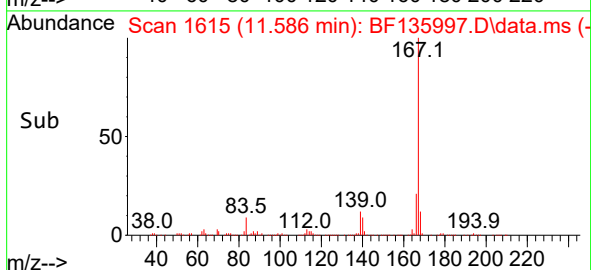
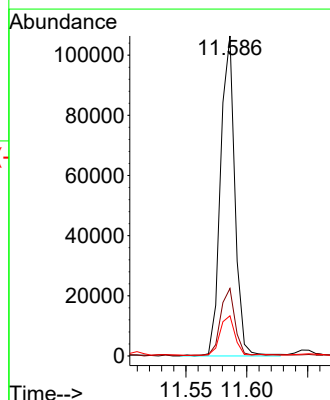
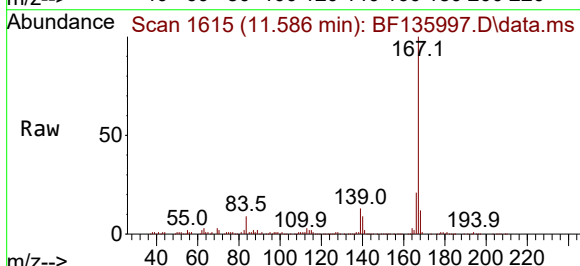
Tgt Ion:167 Resp: 87423

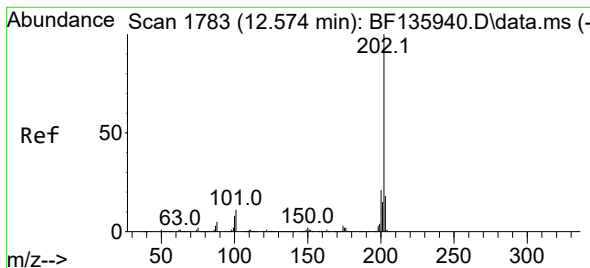
Ion Ratio Lower Upper

167 100

166 21.1 17.0 25.6

139 12.6 10.4 15.6





#75

Fluoranthene

Concen: 61.421 ng

RT: 12.580 min Scan# 1784

Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Instrument :

BNA_F

ClientSampleId :

Q-1(5-10)DL

Tgt Ion:202 Resp: 1267360

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.6

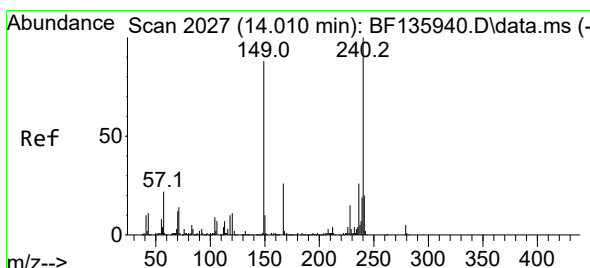
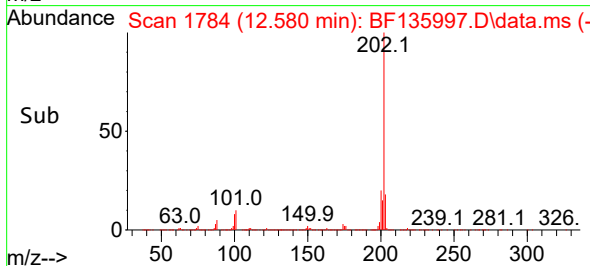
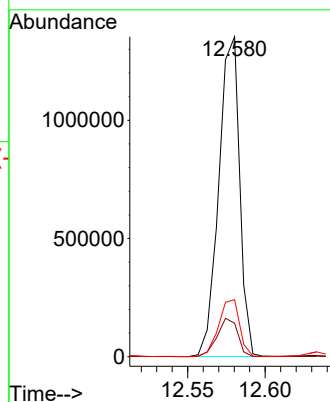
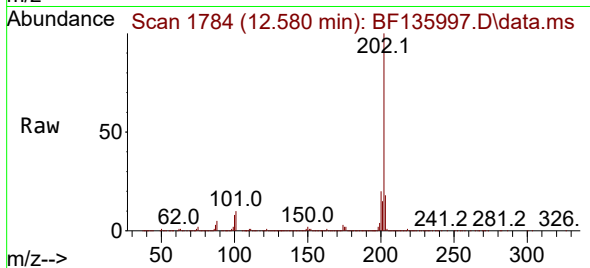
203 17.8 0.0 37.5

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. 0.000 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

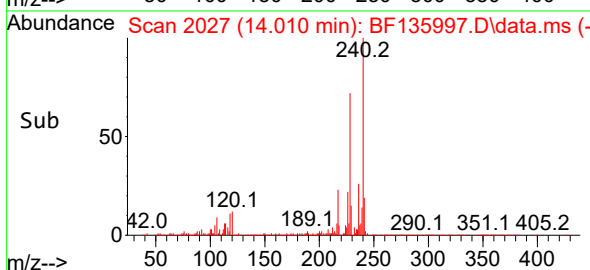
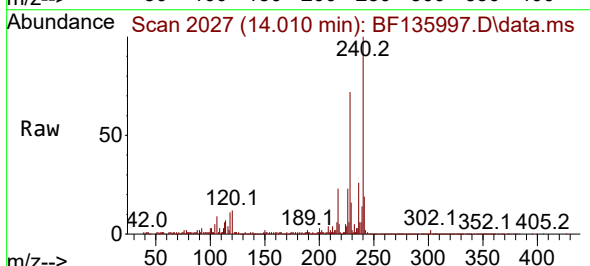
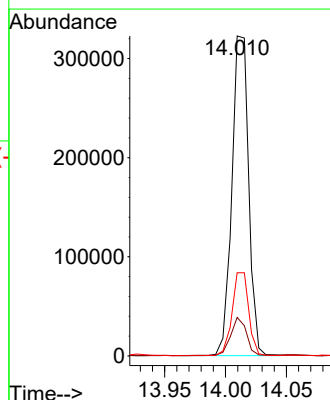
Tgt Ion:240 Resp: 309807

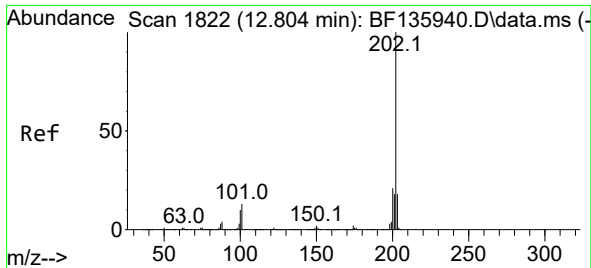
Ion Ratio Lower Upper

240 100

120 12.1 8.6 13.0

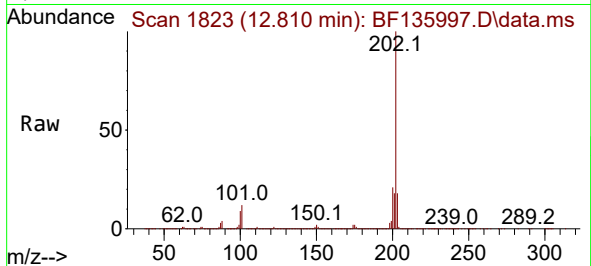
236 26.0 20.6 30.8





#78
Pyrene
Concen: 41.152 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

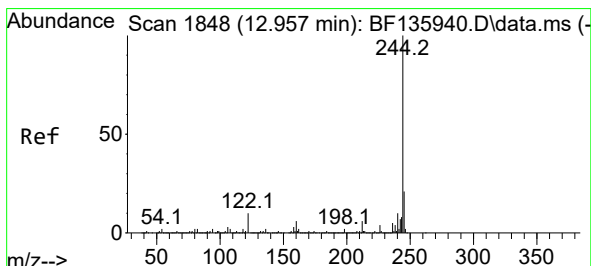
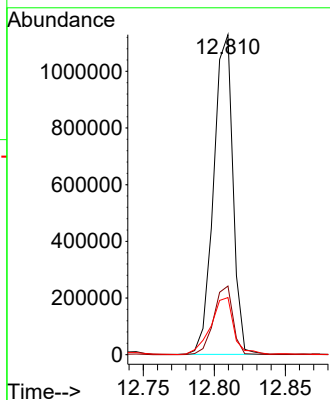
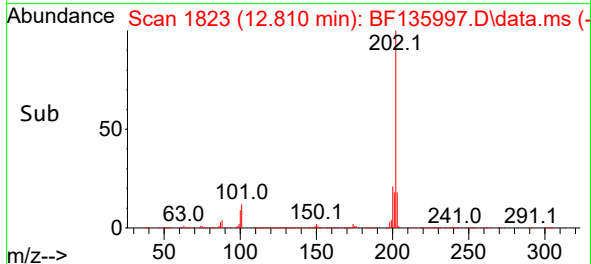
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL



Tgt Ion:202 Resp: 1070480
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.9 14.5 21.7

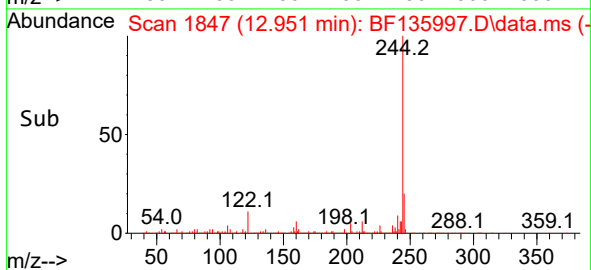
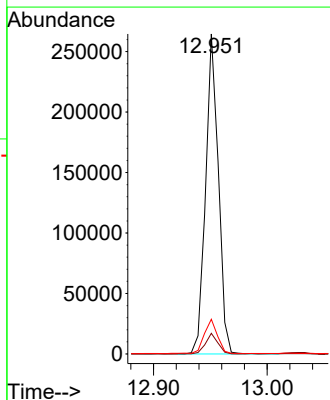
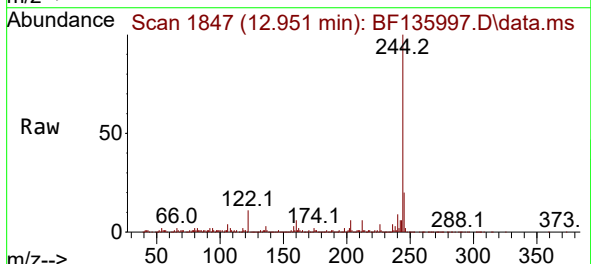
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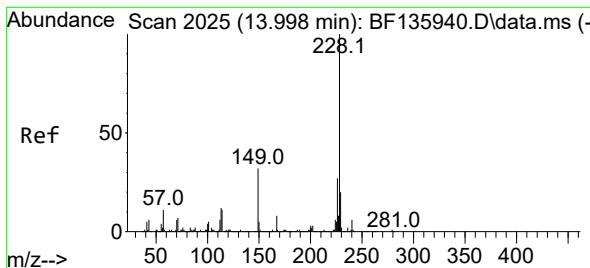
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#79
Terphenyl-d14
Concen: 11.133 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Tgt Ion:244 Resp: 206436
Ion Ratio Lower Upper
244 100
212 6.5 5.0 7.6
122 10.8 8.0 12.0





#81

Benzo(a)anthracene

Concen: 24.661 ng

RT: 14.004 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Instrument :

BNF

ClientSampleId :

Q-1(5-10)DL

Tgt Ion:228 Resp: 51949

Ion Ratio Lower Upper

228 100

226 31.4 21.8 32.6

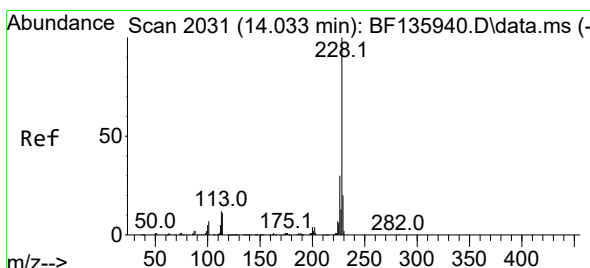
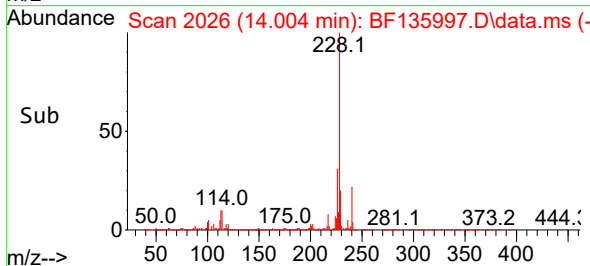
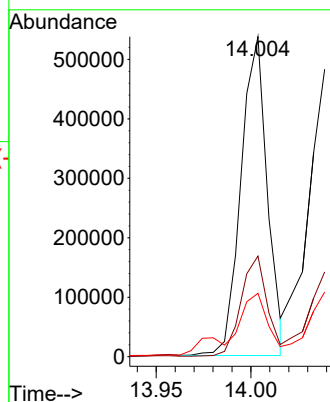
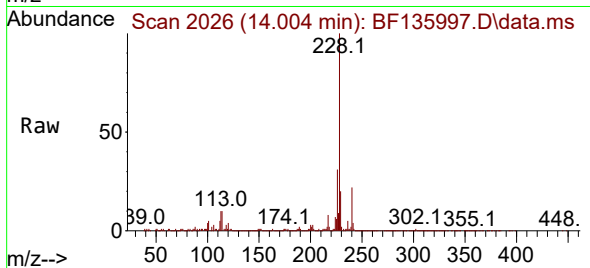
229 19.8 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#83

Chrysene

Concen: 21.959 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

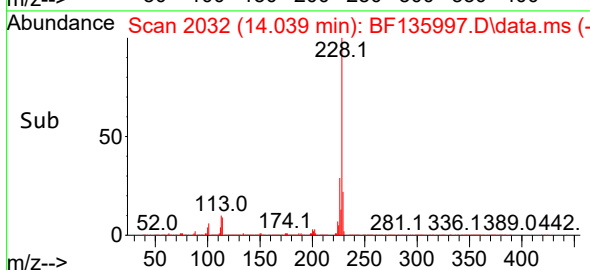
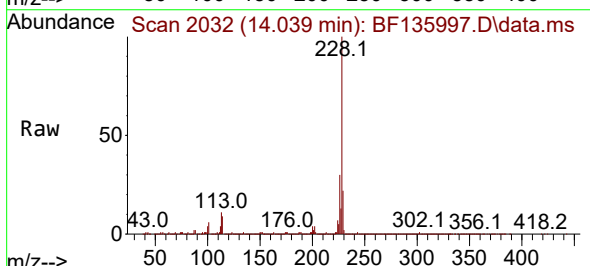
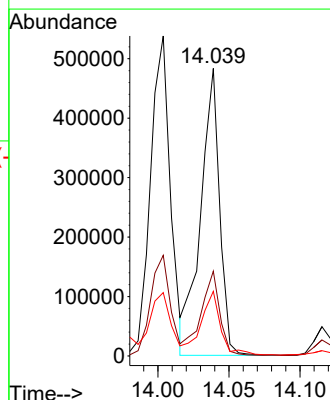
Tgt Ion:228 Resp: 450522

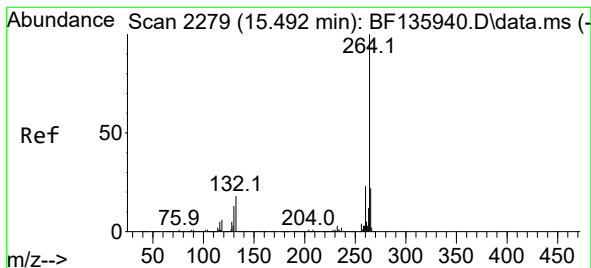
Ion Ratio Lower Upper

228 100

226 29.5 23.9 35.9

229 22.5 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Instrument :

BNA_F

ClientSampleId :

Q-1(5-10)DL

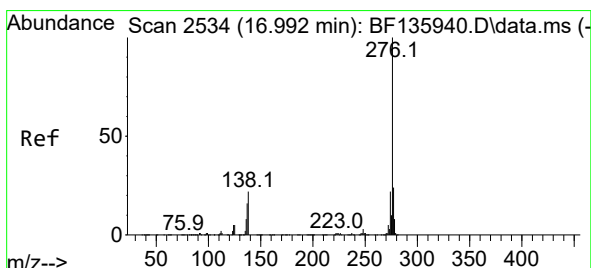
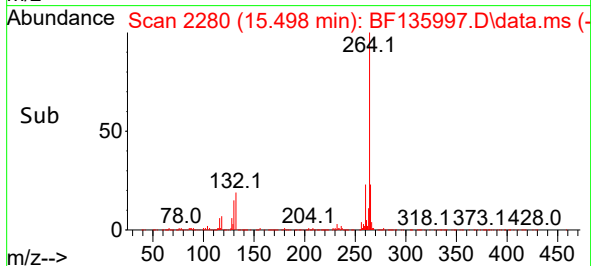
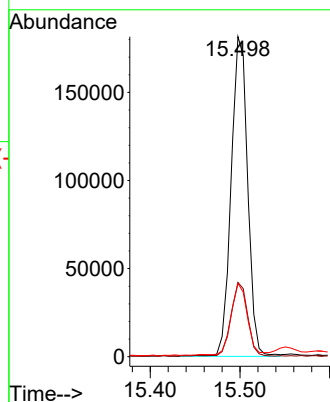
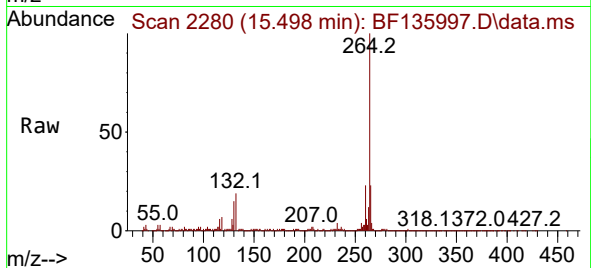
Tgt Ion:264 Resp: 231824
 Ion Ratio Lower Upper
 264 100
 260 23.2 18.6 28.0
 265 23.0 17.3 25.9

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.992 ng

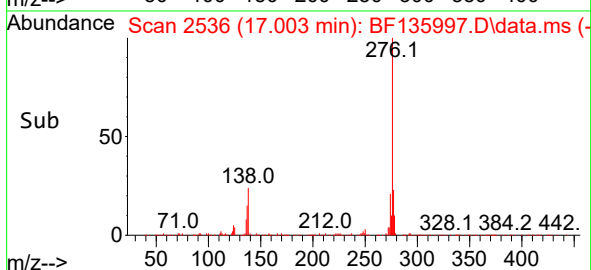
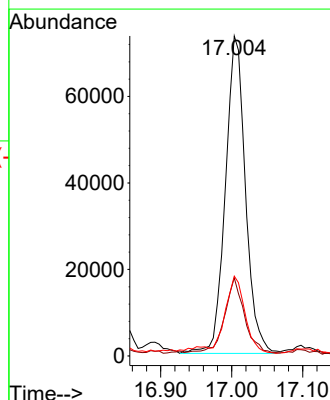
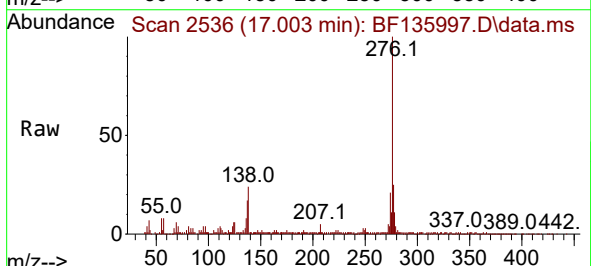
RT: 17.003 min Scan# 2536

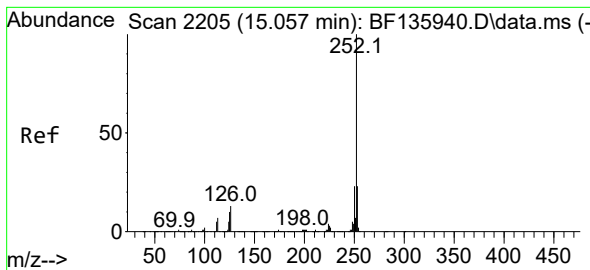
Delta R.T. 0.011 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

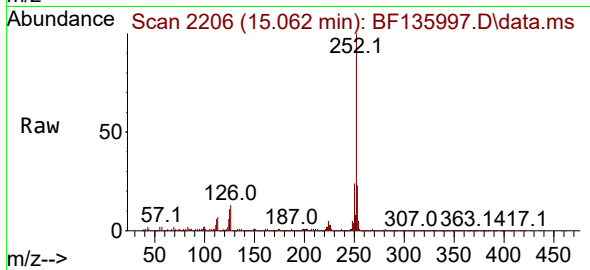
Tgt Ion:276 Resp: 144493
 Ion Ratio Lower Upper
 276 100
 138 22.5 21.8 32.6
 277 23.7 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 28.571 ng m
RT: 15.062 min Scan# 2205
Delta R.T. 0.006 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

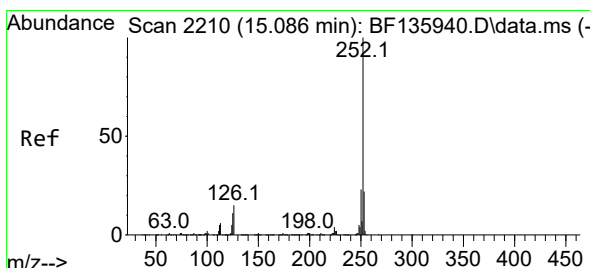
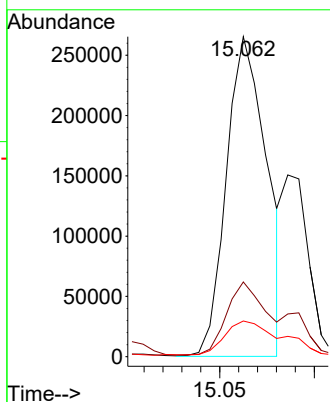
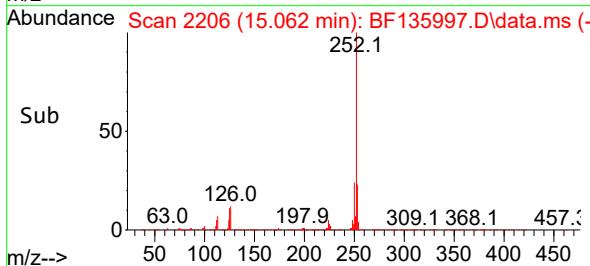
Instrument :
BNA_F
ClientSampleId :
Q-1(5-10)DL



Tgt Ion:252 Resp: 394178
Ion Ratio Lower Upper
252 100
253 23.3 18.0 27.0
125 11.2 8.2 12.4

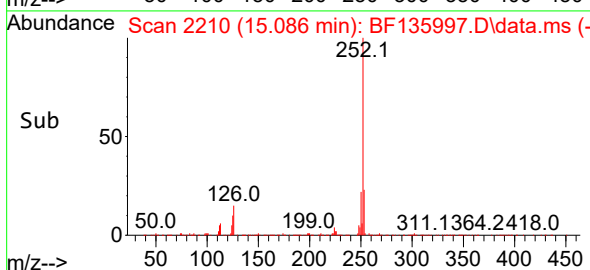
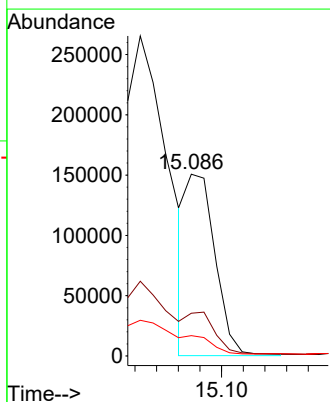
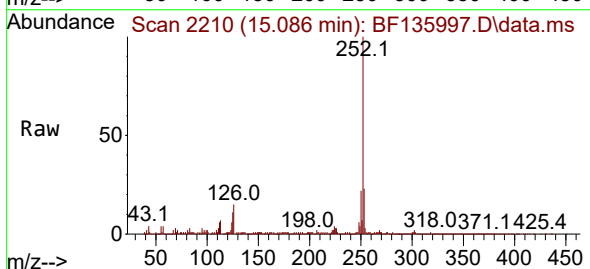
Manual Integrations
APPROVED

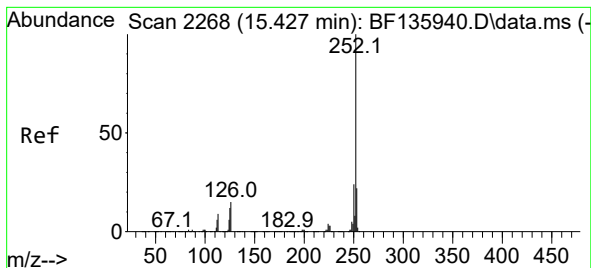
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#89
Benzo(k)fluoranthene
Concen: 10.332 ng m
RT: 15.086 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF135997.D
Acq: 27 Oct 2023 21:41

Tgt Ion:252 Resp: 139990
Ion Ratio Lower Upper
252 100
253 23.5 17.7 26.5
125 11.2 8.5 12.7





#90

Benzo(a)pyrene

Concen: 21.133 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

Instrument :

BNA_F

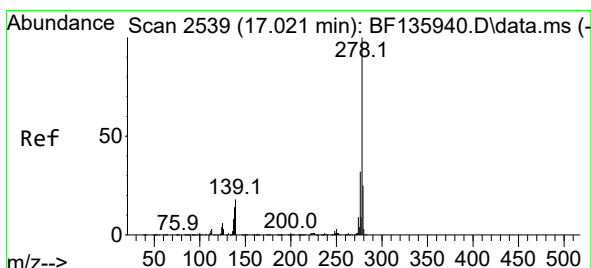
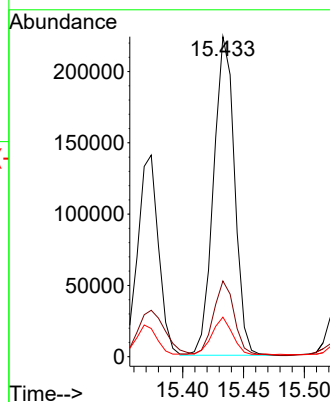
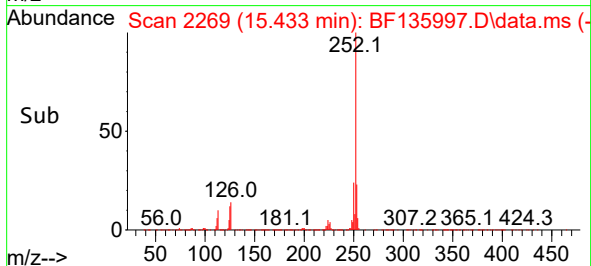
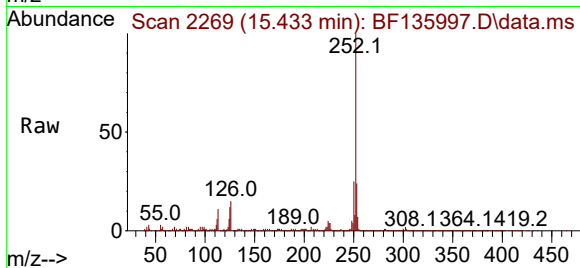
ClientSampleId :

Q-1(5-10)DL

Tgt Ion:252 Resp: 268700
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.4 26.2
 125 12.3 9.6 14.4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.312 ng m

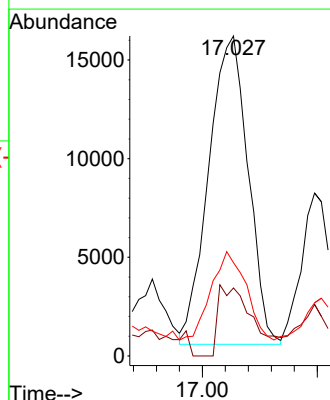
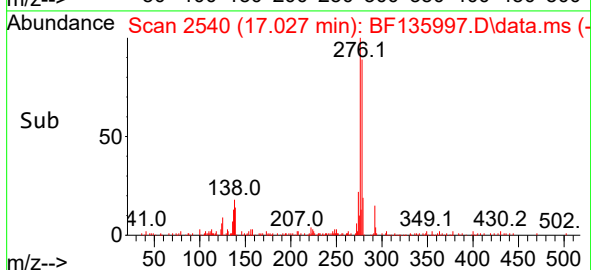
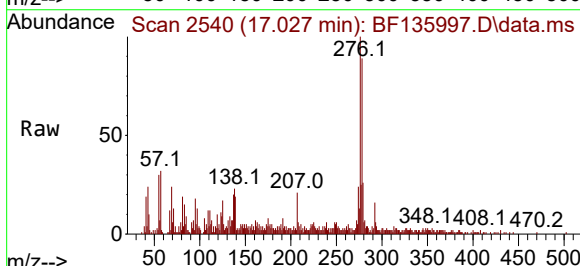
RT: 17.027 min Scan# 2540

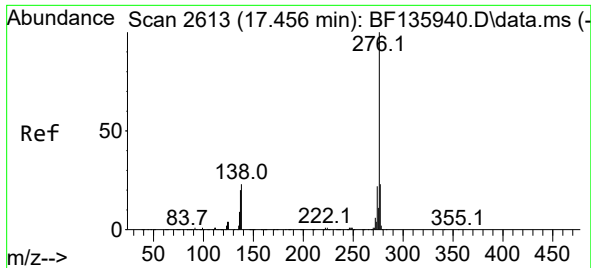
Delta R.T. 0.006 min

Lab File: BF135997.D

Acq: 27 Oct 2023 21:41

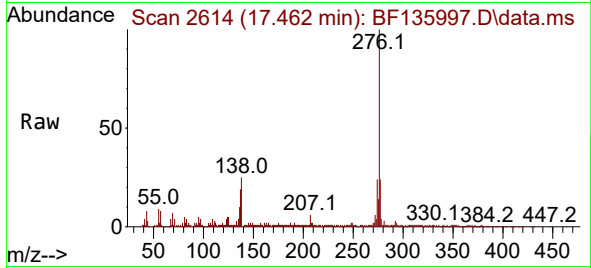
Tgt Ion:278 Resp: 37243
 Ion Ratio Lower Upper
 278 100
 139 21.3 14.0 21.0#
 279 29.1 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 13.153 ng
 RT: 17.462 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF135997.D
 Acq: 27 Oct 2023 21:41

Instrument :
 BNA_F
 ClientSampleId :
 Q-1(5-10)DL



Tgt Ion:	276	Resp:	130308
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.6	28.0
138	24.6	18.4	27.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

