

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122223\
 Data File : BF136698.D
 Acq On : 22 Dec 2023 21:51
 Operator : CG\JU
 Sample : 05765-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-SB-02-10-11

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/25/2023
 Supervised By :mohammad ahmed 12/25/2023

Quant Time: Dec 23 01:56:27 2023
 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	6.780	152	68127	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	236388	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	101828	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	152205	20.000	ng	-0.01
76) Chrysene-d12	13.962	240	136256	20.000	ng	# 0.00
86) Perylene-d12	15.439	264	136924	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	283457	64.919	ng	0.00
7) Phenol-d6	6.428	99	361204	63.843	ng	-0.01
23) Nitrobenzene-d5	7.339	82	217000	46.974	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	54614	45.540	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	402316	53.140	ng	-0.02
79) Terphenyl-d14	12.898	244	311631	31.961	ng	-0.02
Target Compounds						Qvalue
52) Acenaphthene	9.845	154	25603	4.160	ng	98
55) Dibenzofuran	10.016	168	23614	2.531	ng	96
58) Fluorene	10.363	166	21193	2.863	ng	97
71) Phenanthrene	11.333	178	306615	39.261	ng	99
72) Anthracene	11.380	178	66510	8.409	ng	99
73) Carbazole	11.539	167	37785	5.067	ng	98
75) Fluoranthene	12.527	202	375283	44.924	ng	99
78) Pyrene	12.757	202	309215	23.117	ng	98
81) Benzo(a)anthracene	13.951	228	178118	18.826	ng	98
83) Chrysene	13.986	228	169229m	18.290	ng	
87) Indeno(1,2,3-cd)pyrene	16.927	276	53531	5.415	ng	96
88) Benzo(b)fluoranthene	15.009	252	186240m	20.365	ng	
89) Benzo(k)fluoranthene	15.033	252	72507m	8.391	ng	
90) Benzo(a)pyrene	15.374	252	119023	15.418	ng	97
92) Benzo(g,h,i)perylene	17.380	276	46237	5.566	ng	97

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

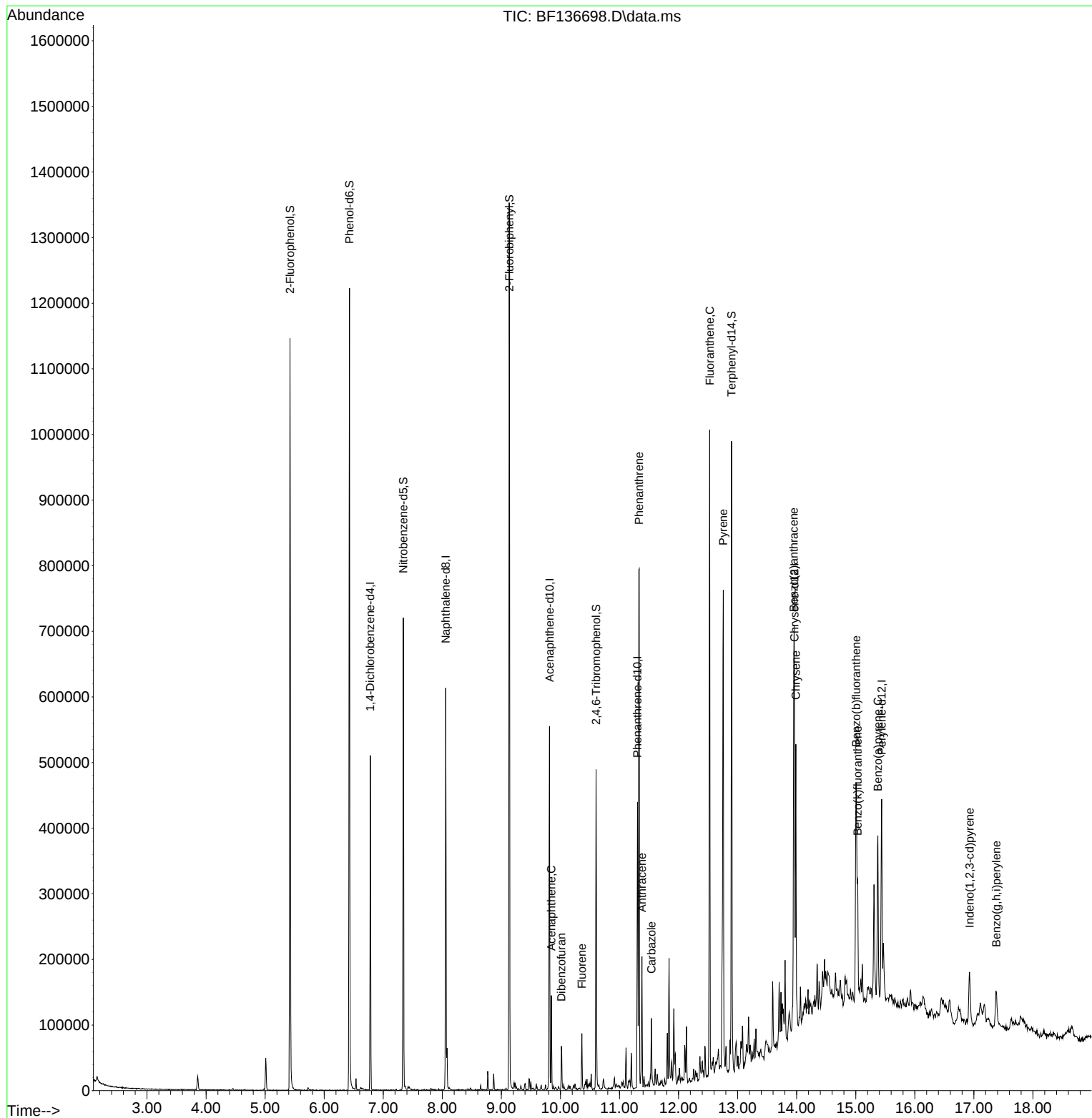
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122223\
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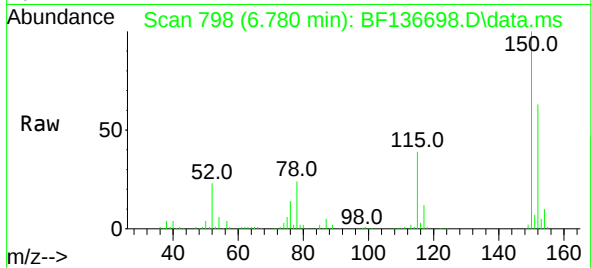
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.780 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

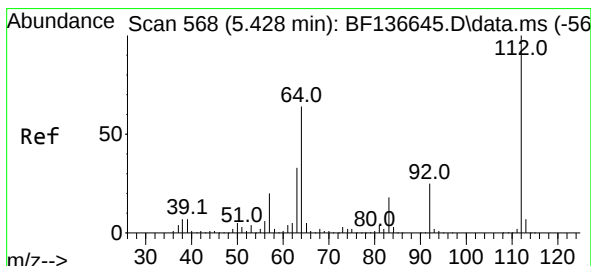
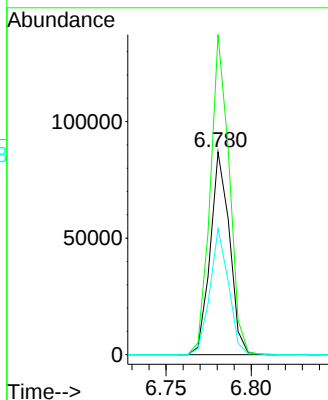
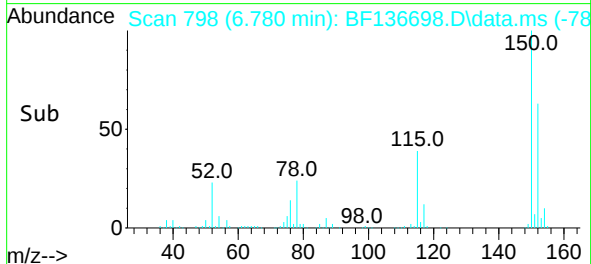
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RT-SB-02-10-11



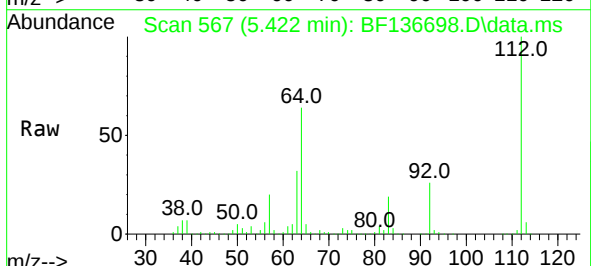
Tgt Ion:152 Resp: 6812
Ion Ratio Lower Upper
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150 157.8 127.0 190.6
115 62.3 49.0 73.4

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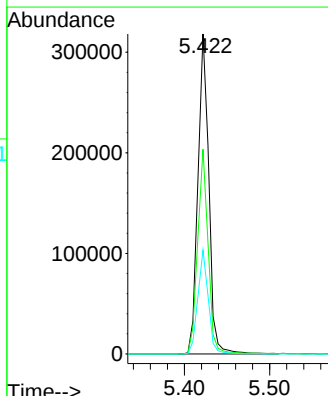
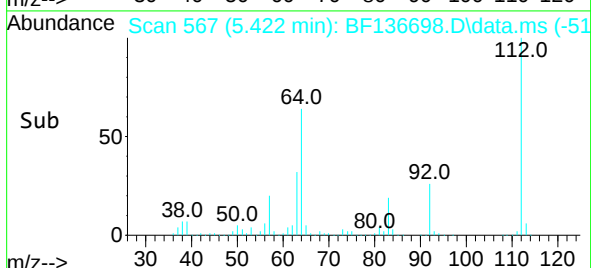
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

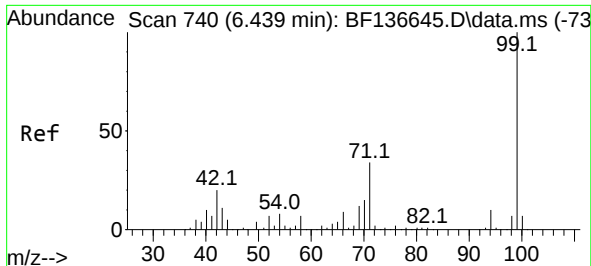


#5
2-Fluorophenol
Concen: 64.919 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51



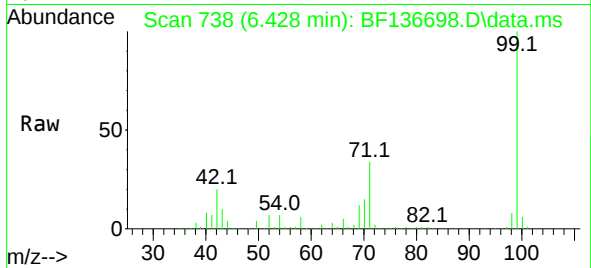
Tgt Ion:112 Resp: 283457
Ion Ratio Lower Upper
112 100
64 64.0 51.1 76.7
63 32.4 26.1 39.1





#7
Phenol-d6
Concen: 63.843 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

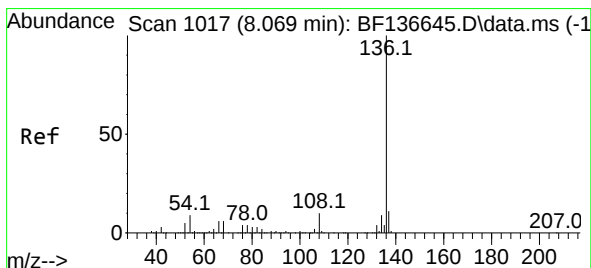
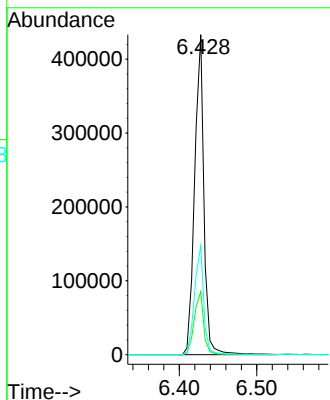
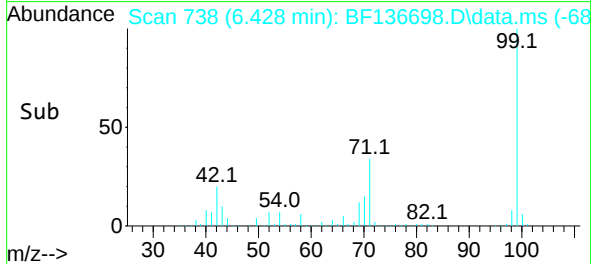
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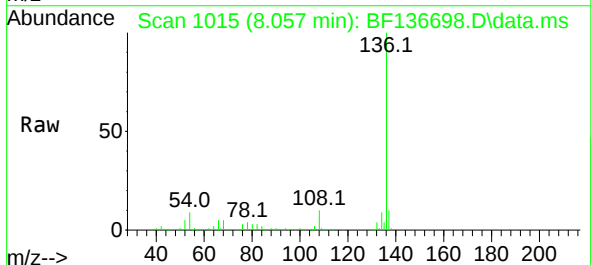
Tgt Ion: 99 Resp: 361204
Ion Ratio Lower Upper
99 100
42 19.7 16.1 24.1
71 34.0 27.4 41.2

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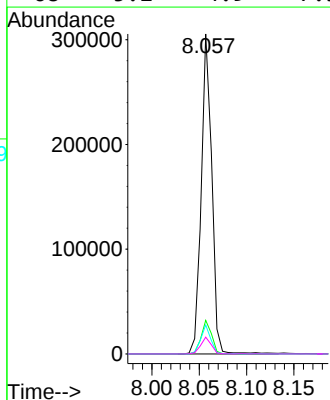
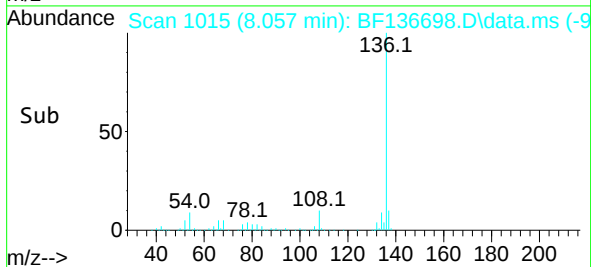
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

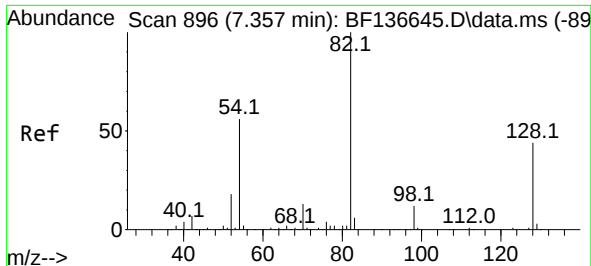


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51



Tgt Ion:136 Resp: 236388
Ion Ratio Lower Upper
136 100
137 10.5 9.0 13.4
54 9.0 7.2 10.8
68 5.2 4.9 7.3





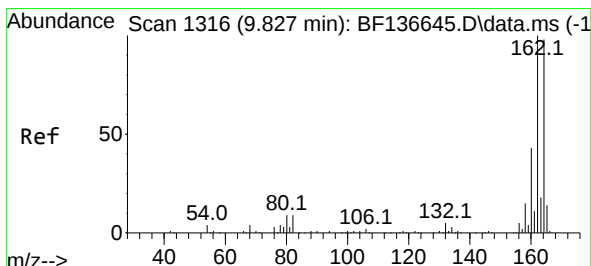
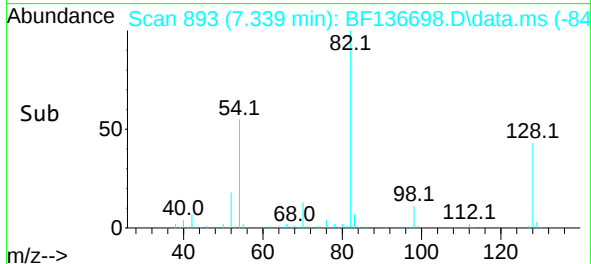
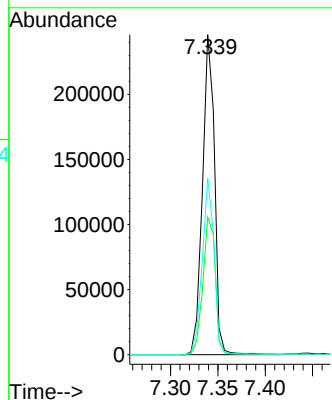
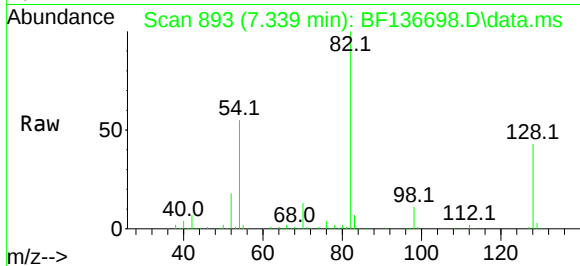
#23
Nitrobenzene-d5
Concen: 46.974 ng
RT: 7.339 min Scan# 896
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

Instrument :
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ClientSampleId :
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Tgt Ion: 82 Resp: 217000
Ion Ratio Lower Upper
82 100
128 43.0 35.3 52.9
54 55.2 44.5 66.7

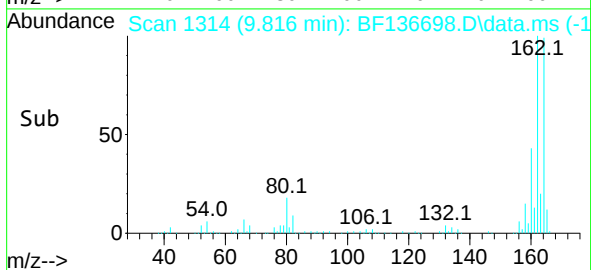
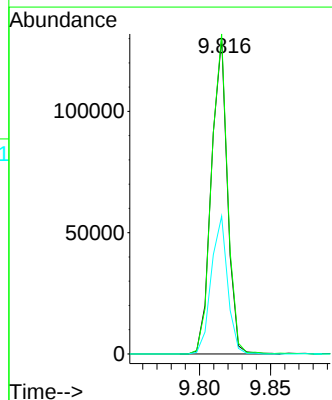
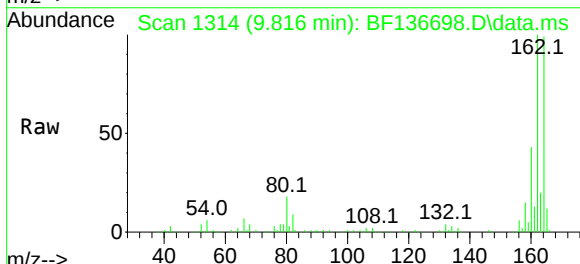
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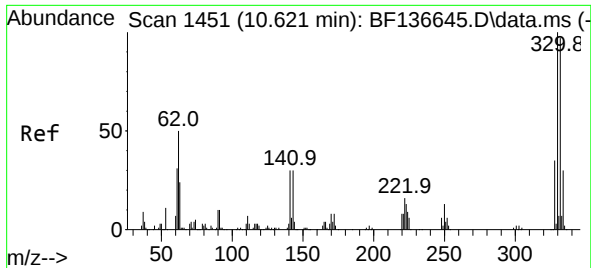
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

Tgt Ion:164 Resp: 101828
Ion Ratio Lower Upper
164 100
162 101.3 81.6 122.4
160 43.6 34.9 52.3





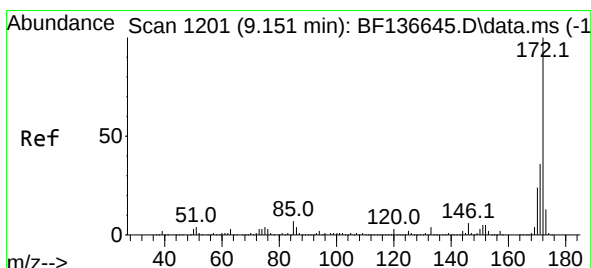
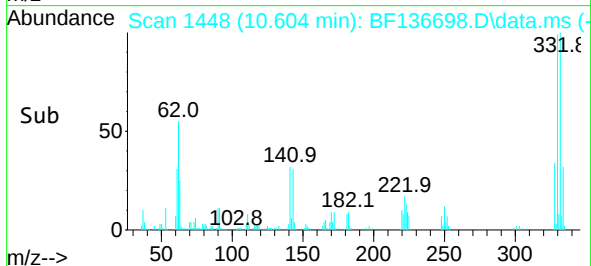
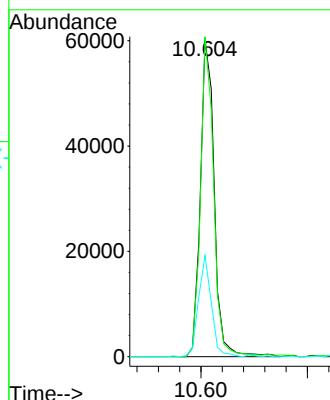
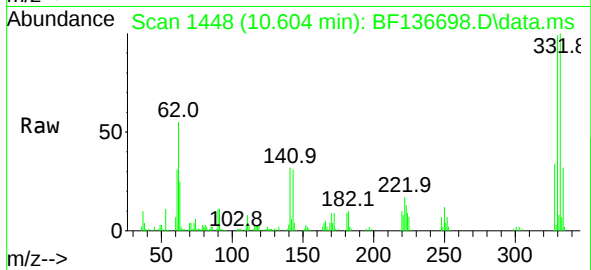
#42
2,4,6-Tribromophenol
Concen: 45.540 ng
RT: 10.604 min Scan# 1451
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

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BNA_F
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Tgt Ion: 330 Resp: 54614
Ion Ratio Lower Upper
330 100
332 94.9 77.4 116.0
141 29.7 23.4 35.2

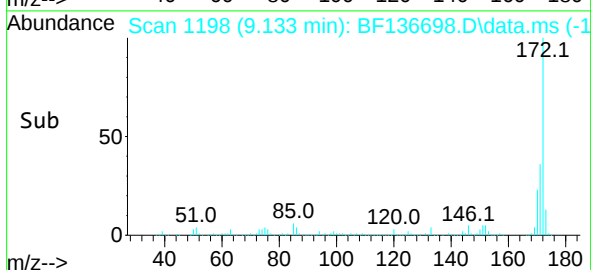
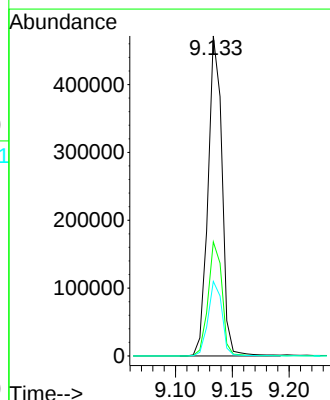
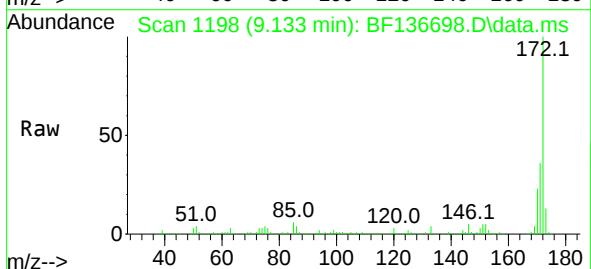
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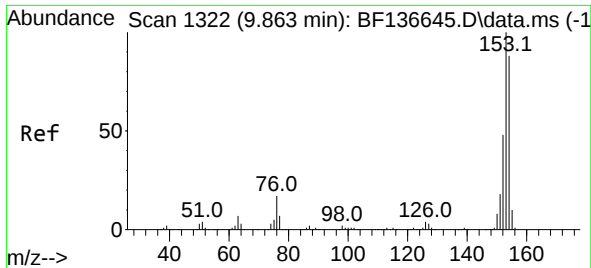
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#45
2-Fluorobiphenyl
Concen: 53.140 ng
RT: 9.133 min Scan# 1198
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

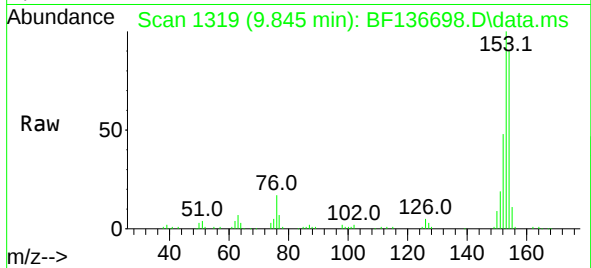
Tgt Ion: 172 Resp: 402316
Ion Ratio Lower Upper
172 100
171 35.6 29.0 43.6
170 23.3 19.0 28.4





#52
Acenaphthene
Concen: 4.160 ng
RT: 9.845 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

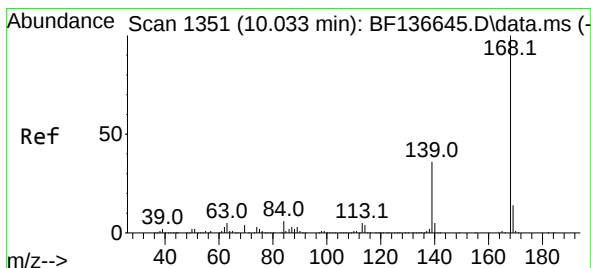
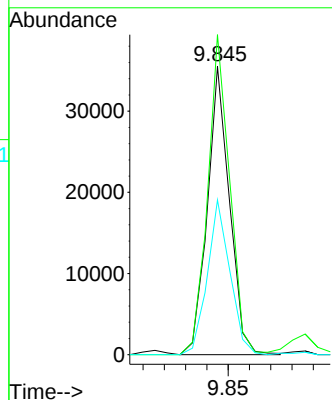
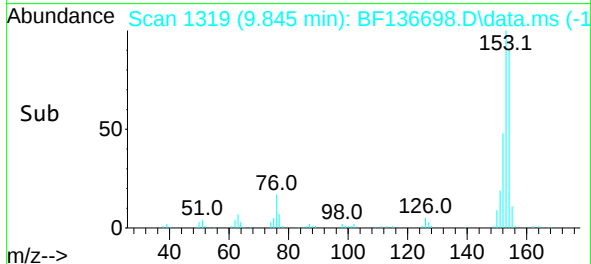
Instrument :
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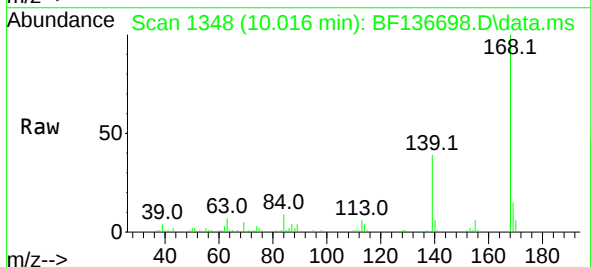
Tgt Ion:154 Resp: 2560
Ion Ratio Lower Upper
154 100
153 111.0 90.7 136.1
152 53.7 43.7 65.5

Manual Integrations
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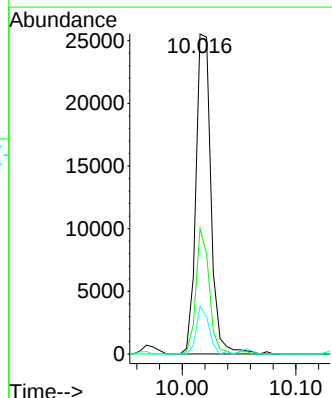
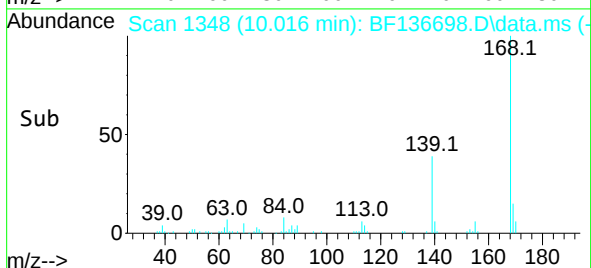
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

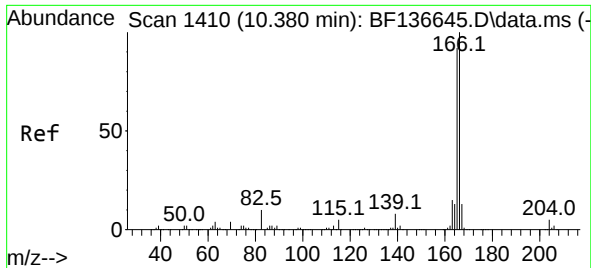


#55
Dibenzofuran
Concen: 2.531 ng
RT: 10.016 min Scan# 1348
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51



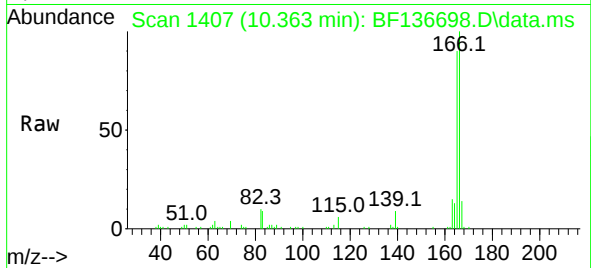
Tgt Ion:168 Resp: 23614
Ion Ratio Lower Upper
168 100
139 39.2 29.3 43.9
169 14.8 11.0 16.4





#58
Fluorene
Concen: 2.863 ng
RT: 10.363 min Scan# 1410
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

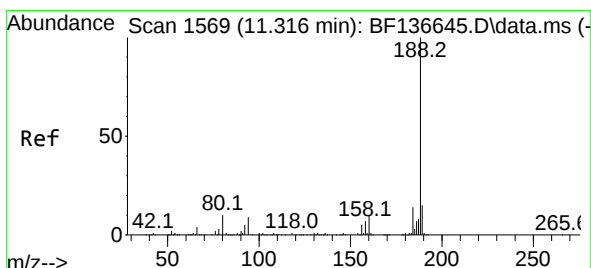
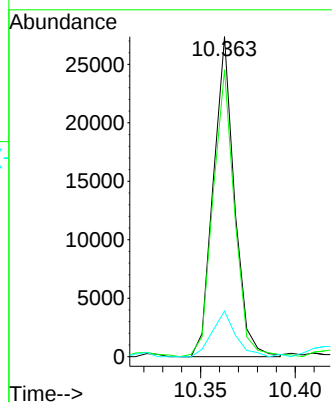
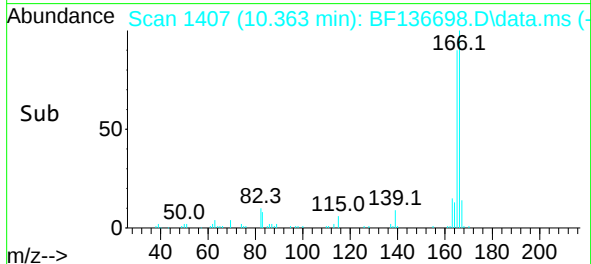
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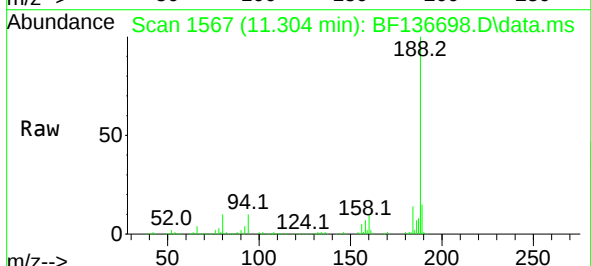
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Ion Ratio Lower Upper
166 100
165 89.7 73.7 110.5
167 14.3 10.4 15.6

Manual Integrations
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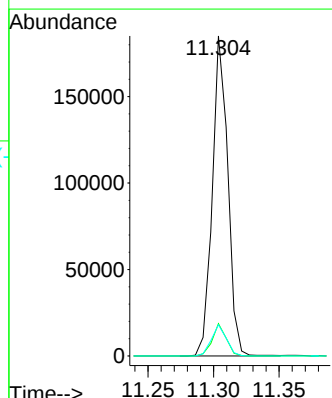
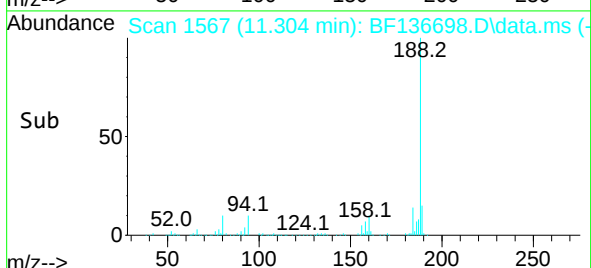
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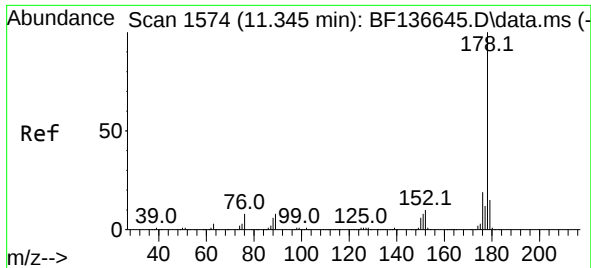


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51



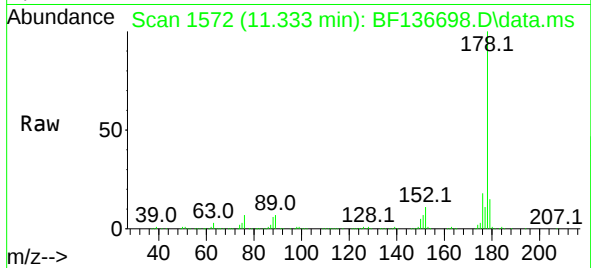
Tgt Ion:188 Resp: 152205
Ion Ratio Lower Upper
188 100
94 10.1 7.5 11.3
80 9.7 8.1 12.1





#71
Phenanthrene
Concen: 39.261 ng
RT: 11.333 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

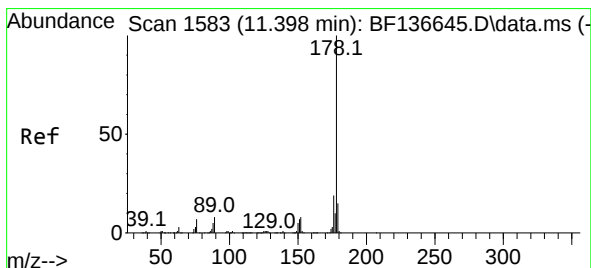
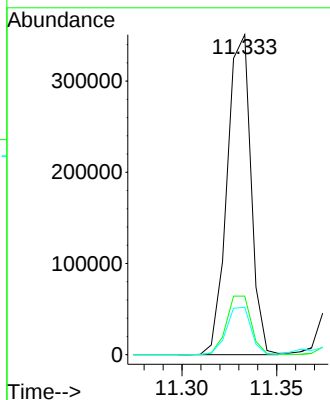
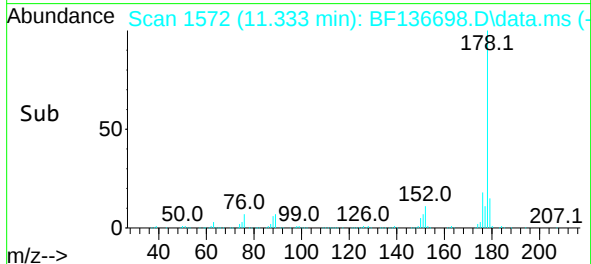
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Tgt Ion:178 Resp: 306615
Ion Ratio Lower Upper
178 100
176 18.3 15.3 22.9
179 14.8 11.9 17.9

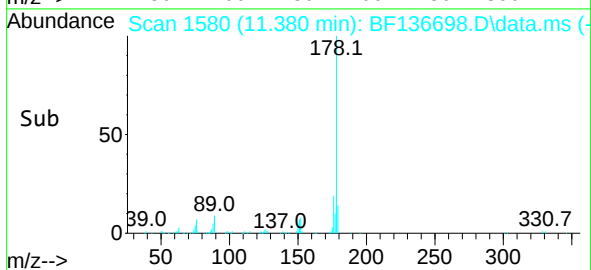
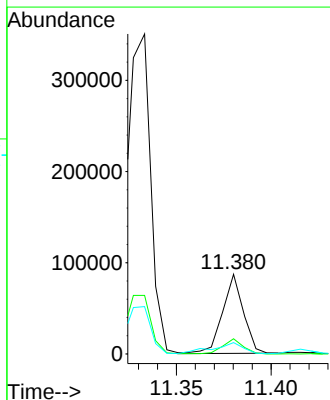
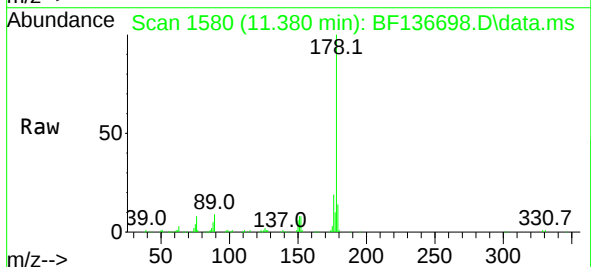
Manual Integrations
APPROVED

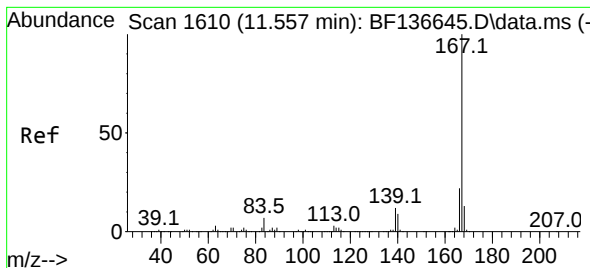
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#72
Anthracene
Concen: 8.409 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.018 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

Tgt Ion:178 Resp: 66510
Ion Ratio Lower Upper
178 100
176 19.2 14.9 22.3
179 14.3 11.8 17.6





#73

Carbazole

Concen: 5.067 ng

RT: 11.539 min Scan# 1607

Delta R.T. -0.018 min

Lab File: BF136698.D

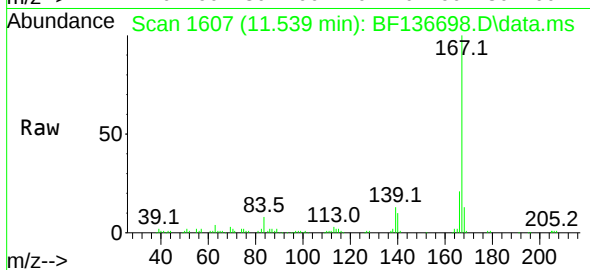
Acq: 22 Dec 2023 21:51

Instrument :

BNA_F

ClientSampleId :

RT-SB-02-10-11



Tgt Ion:167 Resp: 3778

Ion Ratio Lower Upper

167 100

166 20.7 17.3 25.9

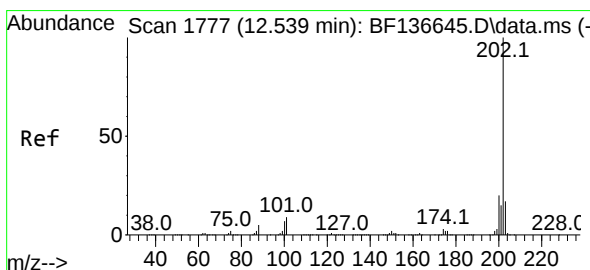
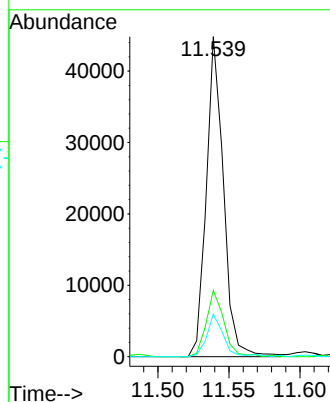
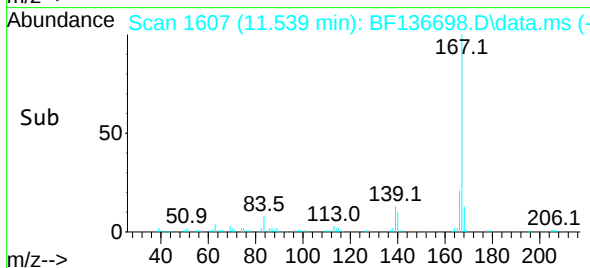
139 13.3 9.8 14.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#75

Fluoranthene

Concen: 44.924 ng

RT: 12.527 min Scan# 1775

Delta R.T. -0.012 min

Lab File: BF136698.D

Acq: 22 Dec 2023 21:51

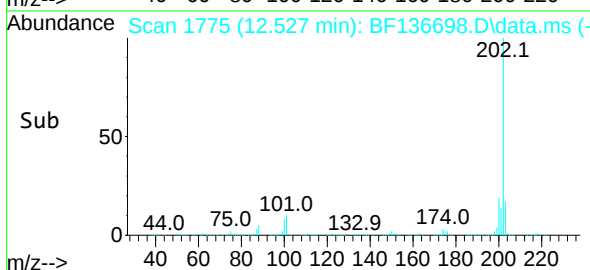
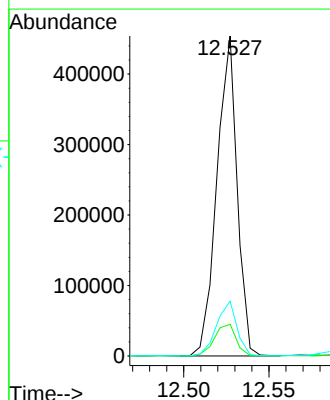
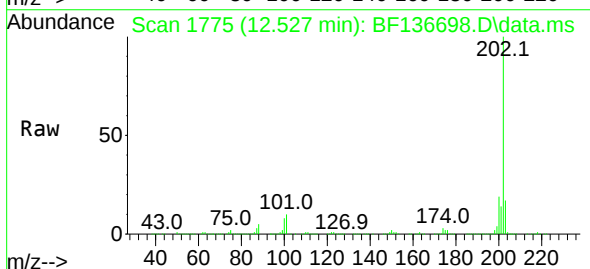
Tgt Ion:202 Resp: 375283

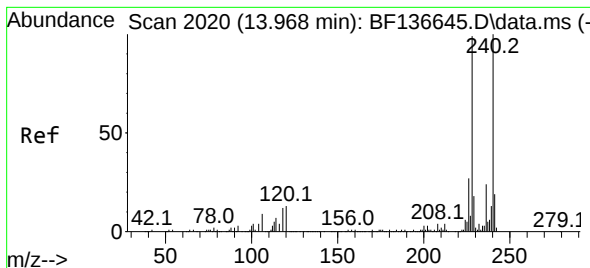
Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.3

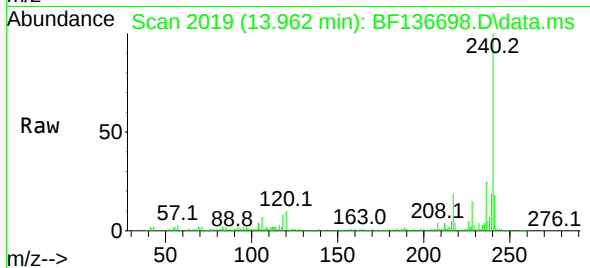
203 17.1 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

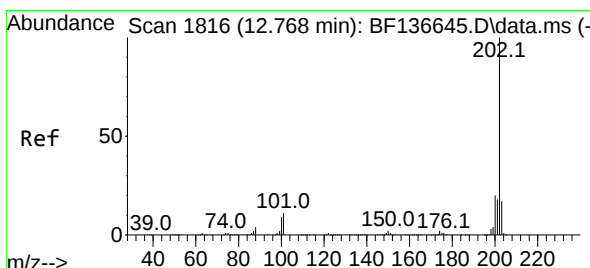
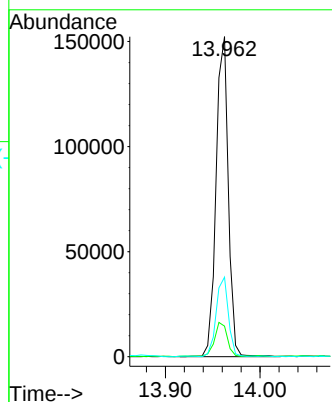
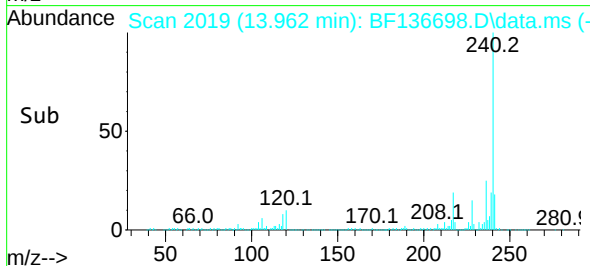
Instrument :
BNA_F
ClientSampleId :
RT-SB-02-10-11



Tgt Ion:240 Resp: 136250
Ion Ratio Lower Upper
240 100
120 9.6 10.3 15.5
236 24.9 19.4 29.2

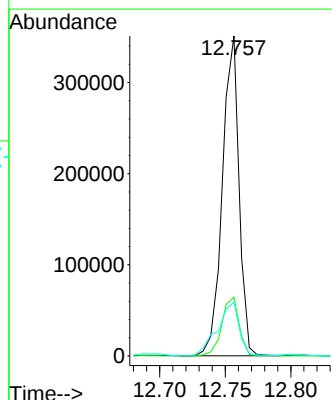
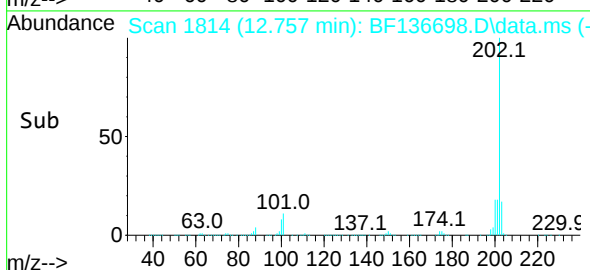
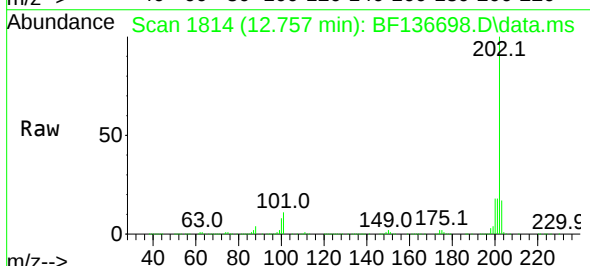
Manual Integrations
APPROVED

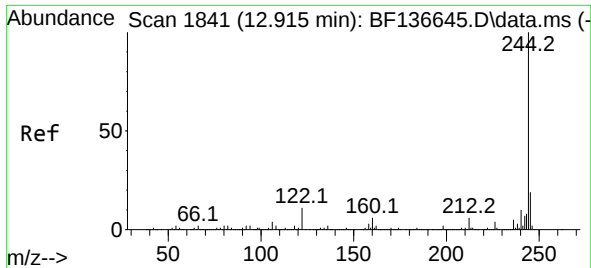
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#78
Pyrene
Concen: 23.117 ng
RT: 12.757 min Scan# 1814
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

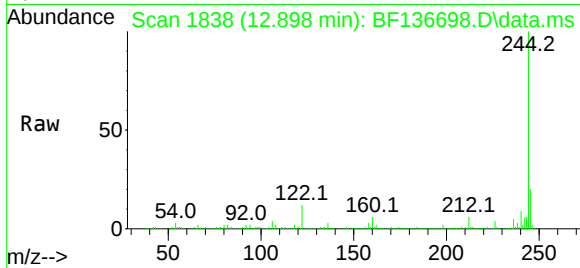
Tgt Ion:202 Resp: 309215
Ion Ratio Lower Upper
202 100
200 18.4 15.9 23.9
203 16.8 13.8 20.6





#79
 Terphenyl-d14
 Concen: 31.961 ng
 RT: 12.898 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF136698.D
 Acq: 22 Dec 2023 21:51

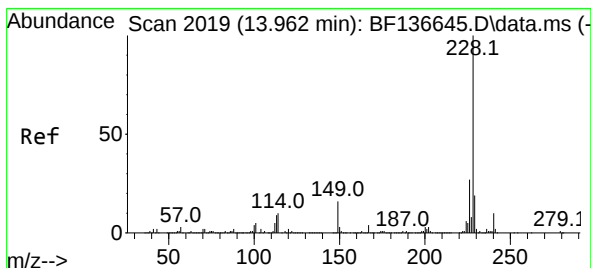
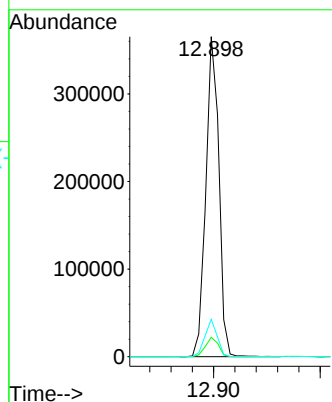
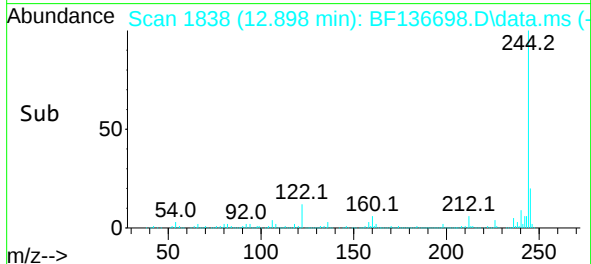
Instrument :
 BNA_F
 ClientSampleId :
 RT-SB-02-10-11



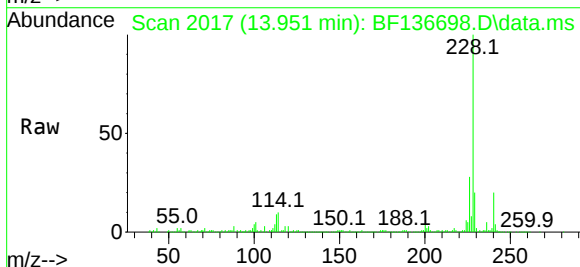
Tgt Ion:244 Resp: 31163
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.0 7.4
 122 11.7 9.0 13.4

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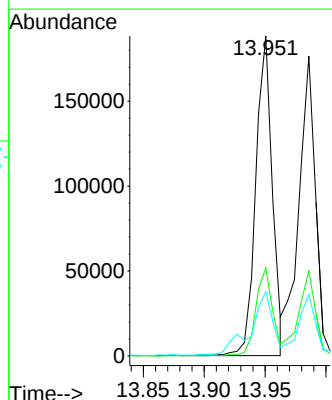
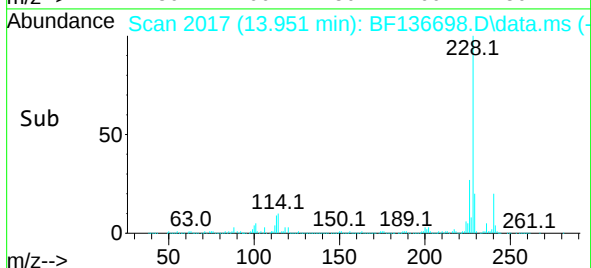
Reviewed By :Yogesh Patel 12/25/2023
 Supervised By :mohammad ahmed 12/25/2023

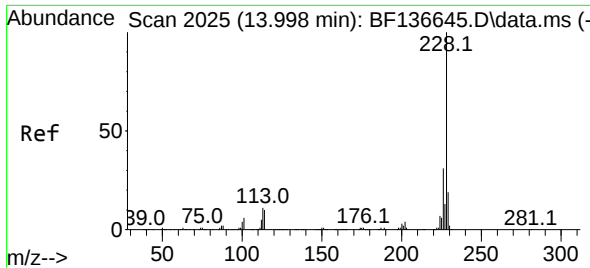


#81
 Benzo(a)anthracene
 Concen: 18.826 ng
 RT: 13.951 min Scan# 2017
 Delta R.T. -0.012 min
 Lab File: BF136698.D
 Acq: 22 Dec 2023 21:51



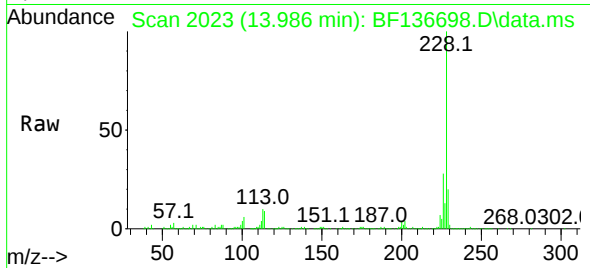
Tgt Ion:228 Resp: 178118
 Ion Ratio Lower Upper
 228 100
 226 27.5 21.4 32.0
 229 20.1 14.9 22.3





#83
Chrysene
Concen: 18.290 ng m
RT: 13.986 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

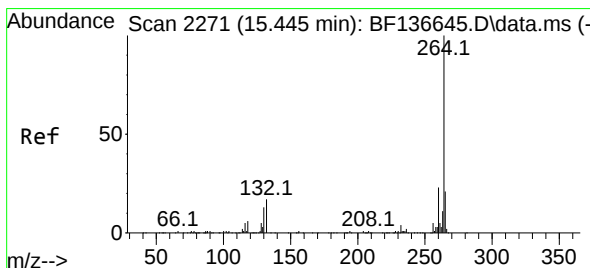
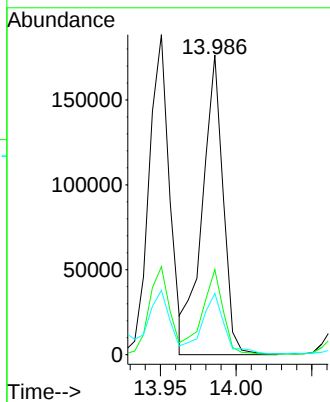
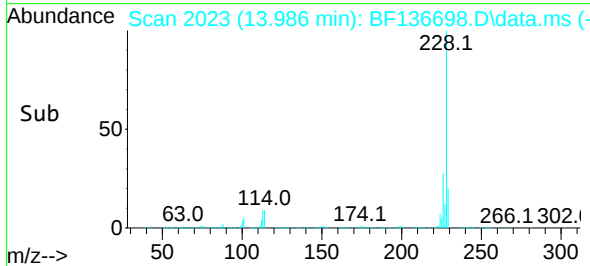
Instrument :
BNA_F
ClientSampleId :
RT-SB-02-10-11



Tgt Ion:228 Resp: 169229
Ion Ratio Lower Upper
228 100
226 28.4 24.7 37.1
229 20.4 15.4 23.0

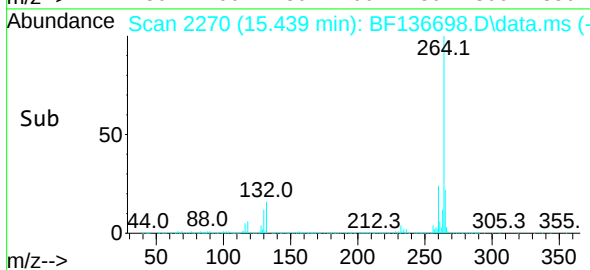
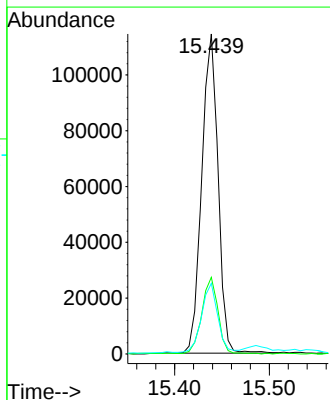
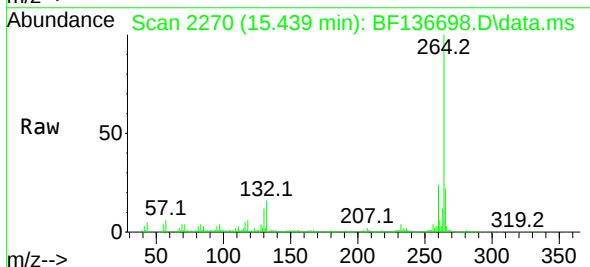
Manual Integrations
APPROVED

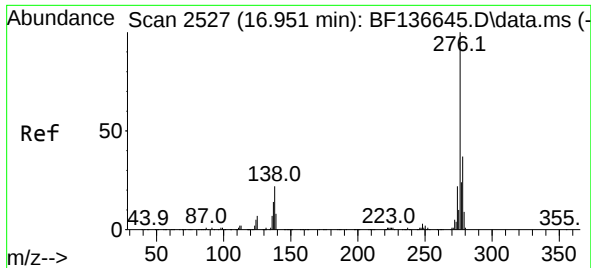
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

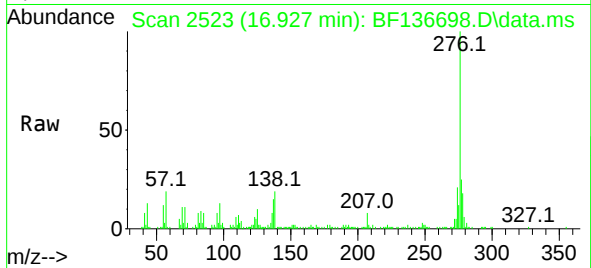
Tgt Ion:264 Resp: 136924
Ion Ratio Lower Upper
264 100
260 23.9 18.3 27.5
265 22.0 17.0 25.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 5.415 ng
RT: 16.927 min Scan# 2197
Delta R.T. -0.024 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

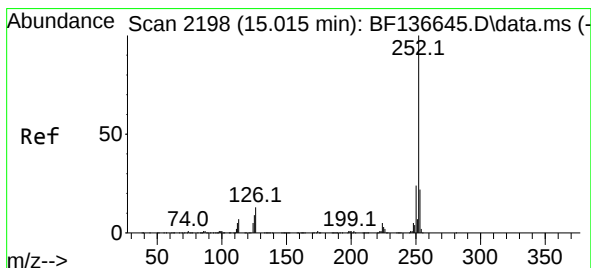
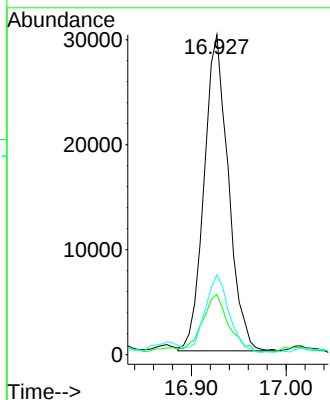
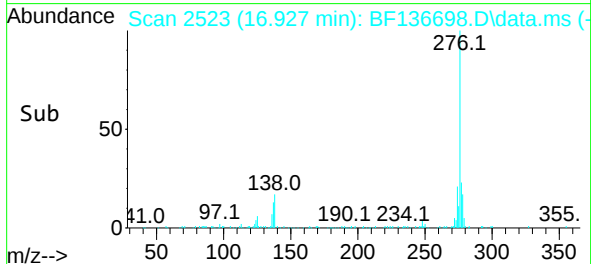
Instrument :
BNA_F
ClientSampleId :
RT-SB-02-10-11



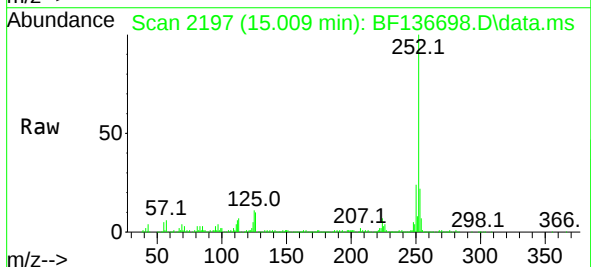
Tgt Ion:276 Resp: 5353
Ion Ratio Lower Upper
276 100
138 20.8 18.7 28.1
277 24.2 20.2 30.2

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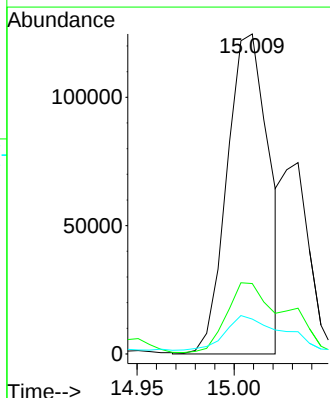
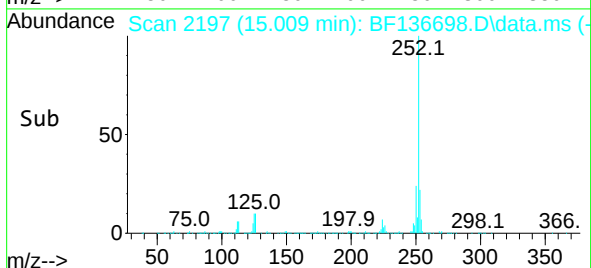
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

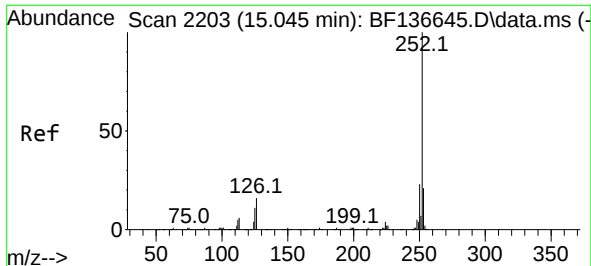


#88
Benzo(b)fluoranthene
Concen: 20.365 ng m
RT: 15.009 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51



Tgt Ion:252 Resp: 186240
Ion Ratio Lower Upper
252 100
253 22.0 17.4 26.0
125 10.9 7.4 11.2





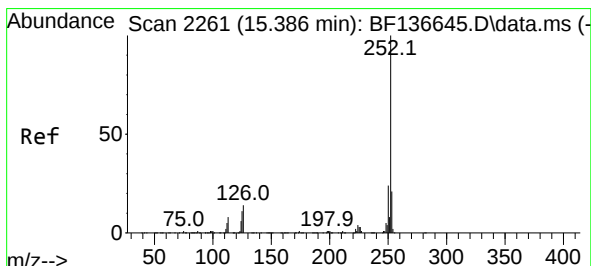
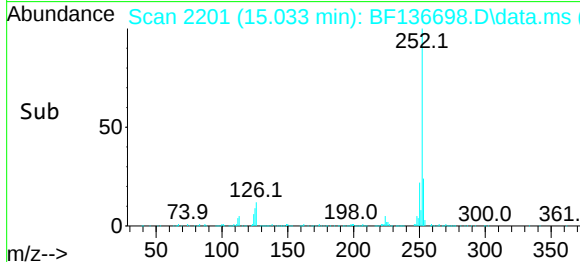
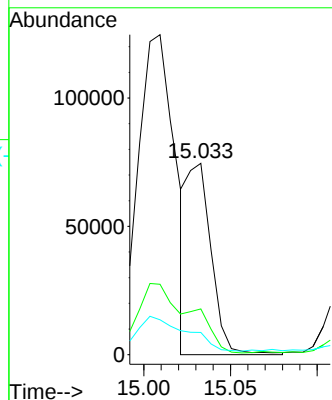
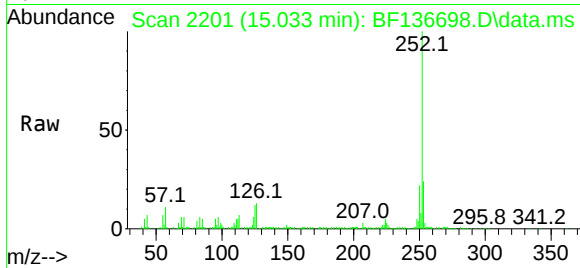
#89
Benzo(k)fluoranthene
Concen: 8.391 ng m
RT: 15.033 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

Instrument :
BNA_F
ClientSampleId :
RT-SB-02-10-11

Tgt Ion:252 Resp: 7250
Ion Ratio Lower Upper
252 100
253 23.9 17.0 25.6
125 11.6 8.2 12.4

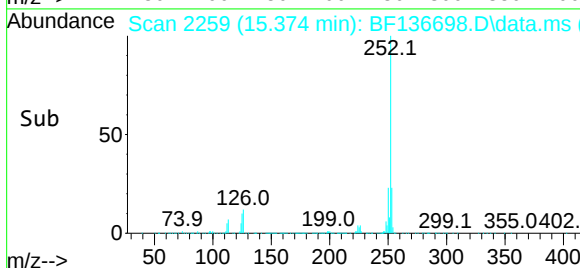
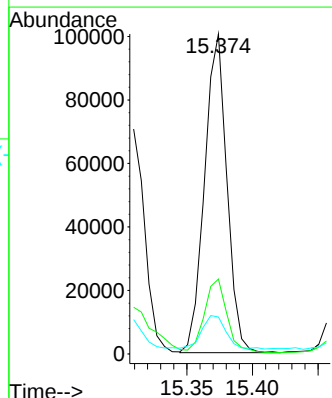
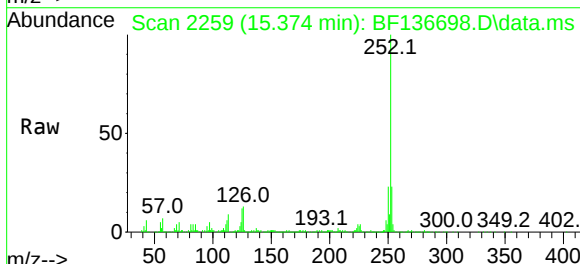
Manual Integrations
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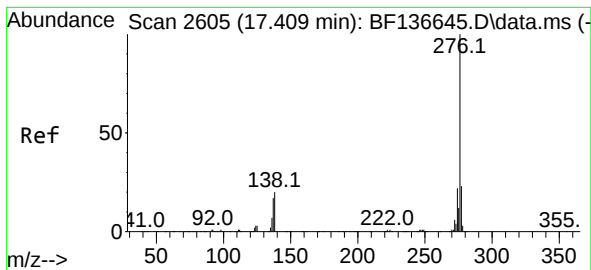
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#90
Benzo(a)pyrene
Concen: 15.418 ng
RT: 15.374 min Scan# 2259
Delta R.T. -0.012 min
Lab File: BF136698.D
Acq: 22 Dec 2023 21:51

Tgt Ion:252 Resp: 119023
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 11.6 8.8 13.2





#92

Benzo(g,h,i)perylene

Concen: 5.566 ng

RT: 17.380 min Scan# 20

Delta R.T. -0.030 min

Lab File: BF136698.D

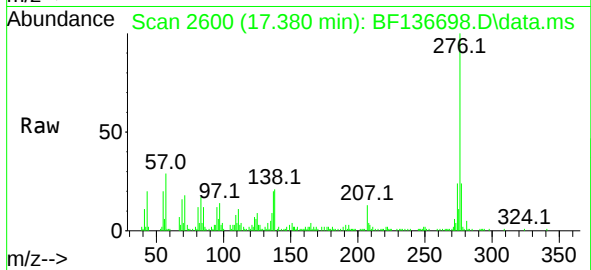
Acq: 22 Dec 2023 21:51

Instrument :

BNA_F

ClientSampleId :

RT-SB-02-10-11



Tgt Ion:276	Resp:	4623
Ion Ratio	Lower	Upper
276	100	
277	24.2	18.3 27.5
138	20.7	15.6 23.4

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023

