

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080423\
 Data File : BF134638.D
 Acq On : 04 Aug 2023 18:04
 Operator : CG\JU
 Sample : 03775-02DL 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BUILDING-A-12-(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/07/2023
 Supervised By :mohammad ahmed 08/07/2023

Quant Time: Aug 05 00:08:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	154822	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	566264	20.000	ng	# 0.00
39) Acenaphthene-d10	9.827	164	220399	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	351797	20.000	ng	# 0.00
76) Chrysene-d12	13.968	240	345086	20.000	ng	# 0.00
86) Perylene-d12	15.433	264	259532	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	44181	4.338	ng	-0.01
7) Phenol-d6	6.422	99	53025	4.073	ng	-0.02
23) Nitrobenzene-d5	7.351	82	28054	3.096	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	7651	3.405	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	55336	4.175	ng	-0.01
79) Terphenyl-d14	12.910	244	60594	3.095	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	592225	20.809	ng	99
37) 2-Methylnaphthalene	8.786	142	251490	13.332	ng	99
38) 1-Methylnaphthalene	8.886	142	296485	16.902	ng	96
46) 1,1'-Biphenyl	9.251	154	74974	4.374	ng	98
49) Acenaphthylene	9.692	152	185502	9.189	ng	98
52) Acenaphthene	9.863	154	137590	10.518	ng	98
55) Dibenzofuran	10.033	168	54285	2.915	ng	# 90
58) Fluorene	10.380	166	262159	19.327	ng	96
71) Phenanthrene	11.345	178	1071381	57.336	ng	99
72) Anthracene	11.392	178	344663	18.058	ng	99
75) Fluoranthene	12.539	202	976878	49.491	ng	97
78) Pyrene	12.768	202	1542802	51.666	ng	96
81) Benzo(a)anthracene	13.957	228	678017m	27.478	ng	
83) Chrysene	13.992	228	644622	26.814	ng	96
87) Indeno(1,2,3-cd)pyrene	16.915	276	148284	9.715	ng	# 94
88) Benzo(b)fluoranthene	15.009	252	418646m	26.449	ng	
89) Benzo(k)fluoranthene	15.033	252	115084m	7.299	ng	
90) Benzo(a)pyrene	15.374	252	399221	27.051	ng	# 97
91) Dibenzo(a,h)anthracene	16.927	278	51311m	4.160	ng	
92) Benzo(g,h,i)perylene	17.362	276	163602	13.002	ng	# 92

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

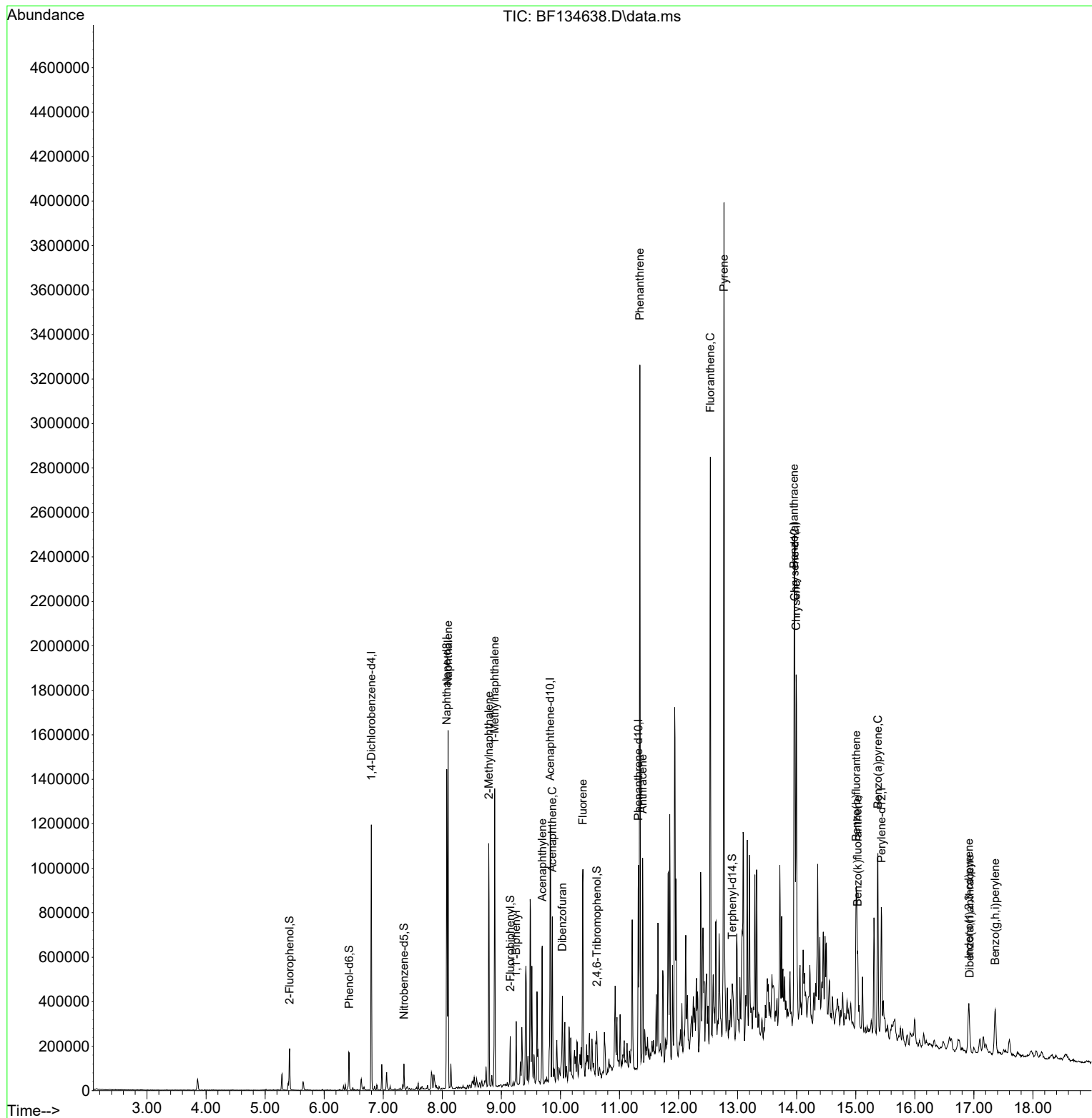
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080423\
Data File : BF134638.D
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Misc :
ALS Vial : 19 Sample Multiplier: 1

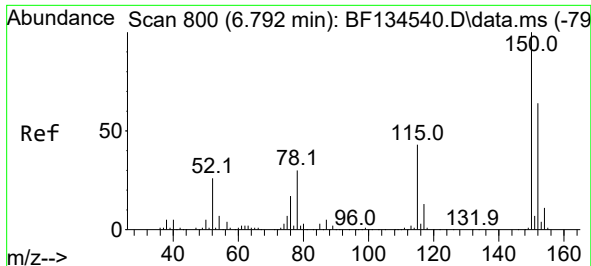
Instrument :
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BUILDING-A-12-(0-5)DL

Quant Time: Aug 05 00:08:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
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QLast Update : Fri Aug 04 09:29:15 2023
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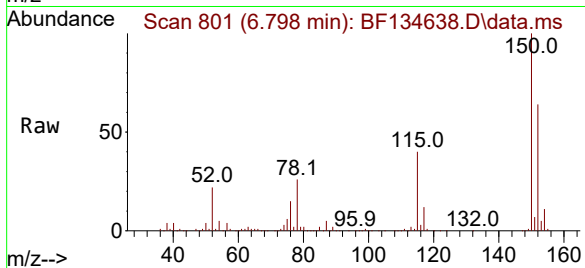
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

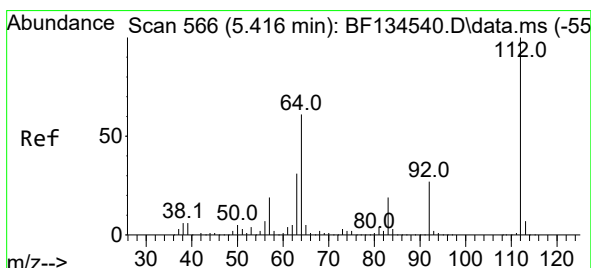
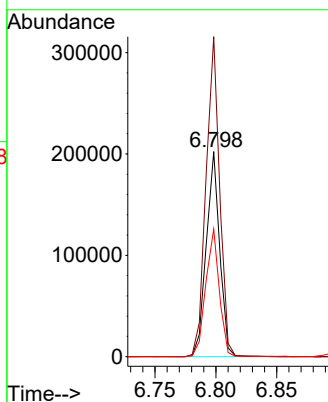
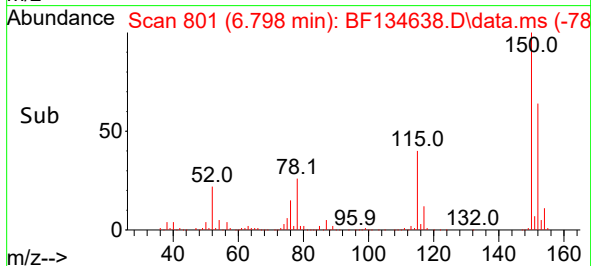
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion:152 Resp: 15482
Ion Ratio Lower Upper
152 100
150 156.0 128.3 192.5
115 62.2 52.4 78.6

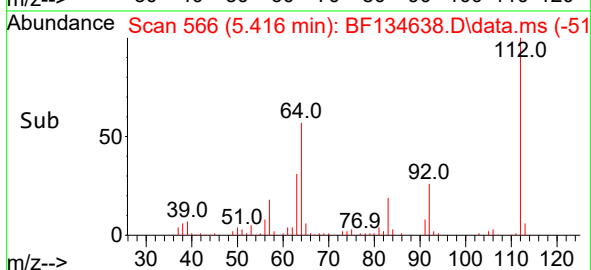
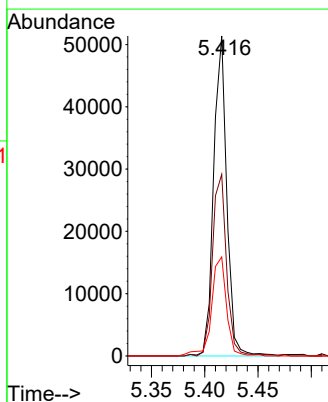
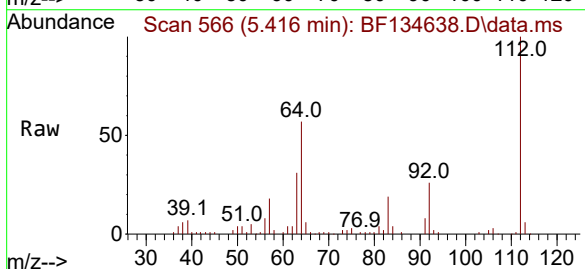
Manual Integrations
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Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#5
2-Fluorophenol
Concen: 4.338 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

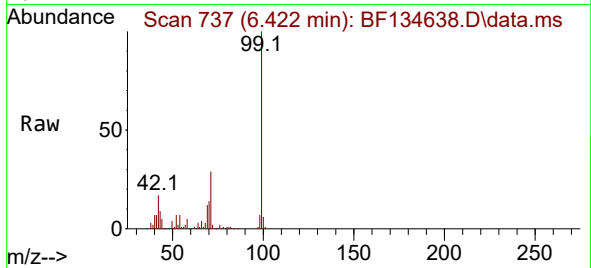
Tgt Ion:112 Resp: 44181
Ion Ratio Lower Upper
112 100
64 56.7 44.9 67.3
63 30.9 25.4 38.0





#7
Phenol-d6
Concen: 4.073 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

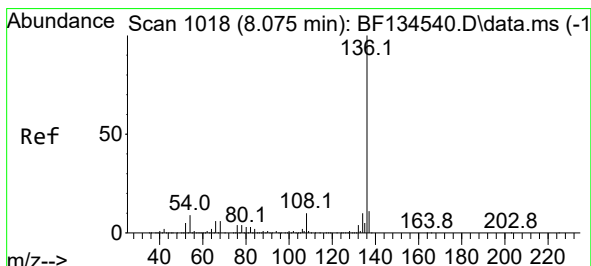
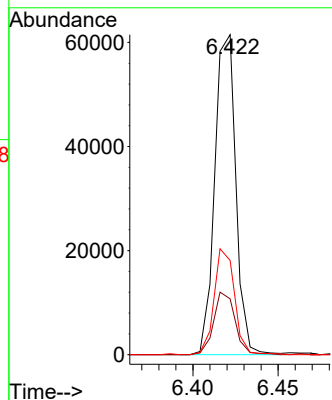
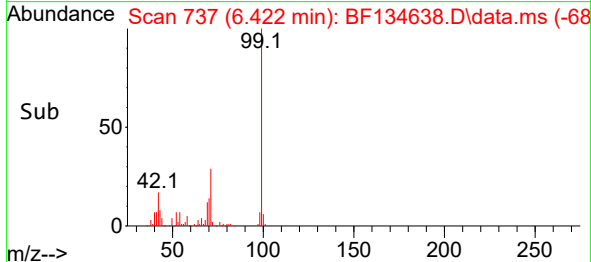
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion: 99 Resp: 53025
Ion Ratio Lower Upper
99 100
42 17.4 18.7 28.1#
71 29.4 36.4 54.6#

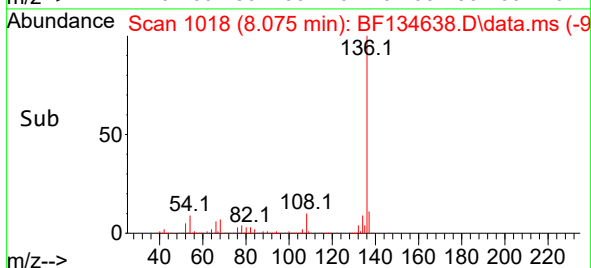
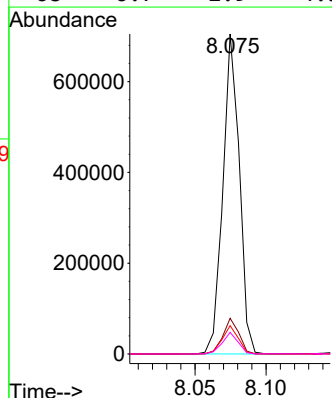
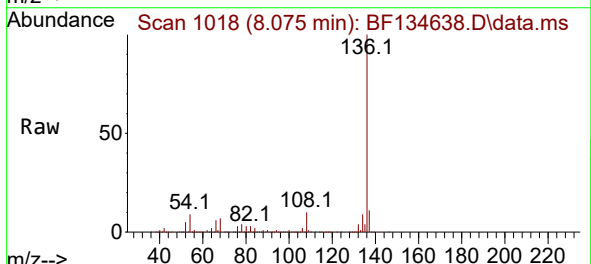
Manual Integrations
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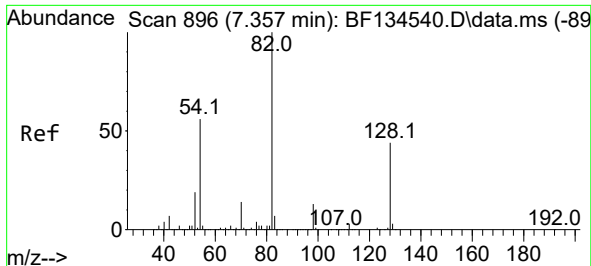
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

Tgt Ion:136 Resp: 566264
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 8.8 5.2 7.8#
68 6.7 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 3.096 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF134638.D

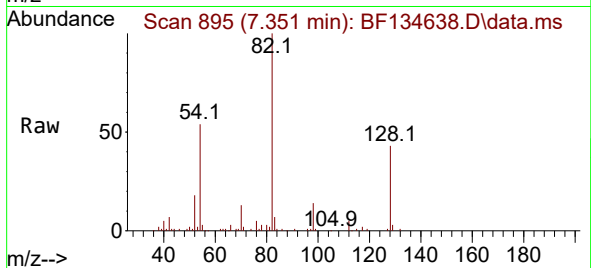
Acq: 04 Aug 2023 18:04

Instrument :

BNA_F

ClientSampleId :

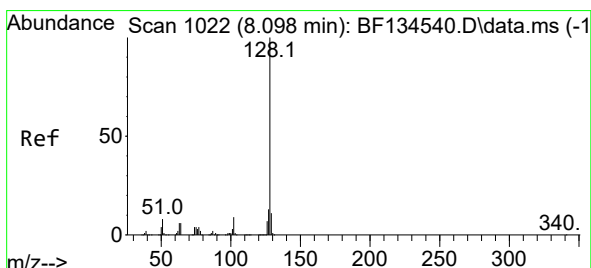
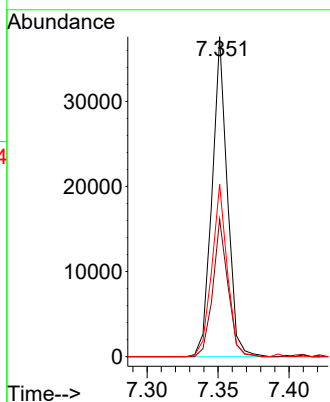
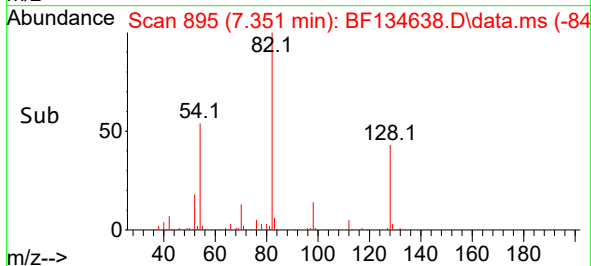
BUILDING-A-12-(0-5)DL



Tgt Ion:	82	Resp:	28054
Ion Ratio	Lower	Upper	
82	100		
128	42.9	34.3	51.5
54	54.0	43.8	65.6

Manual Integrations
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Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#31

Naphthalene

Concen: 20.809 ng

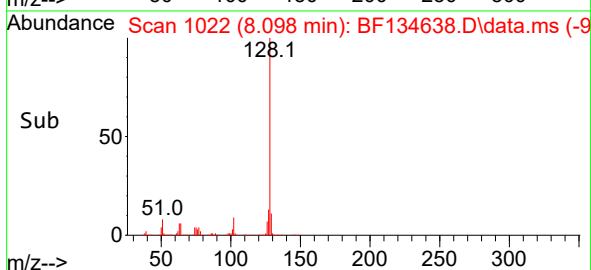
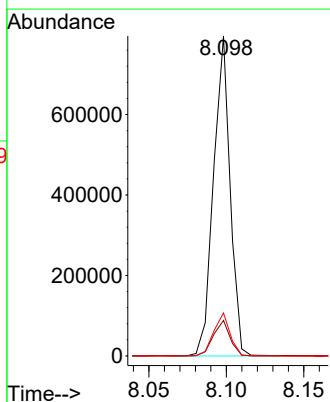
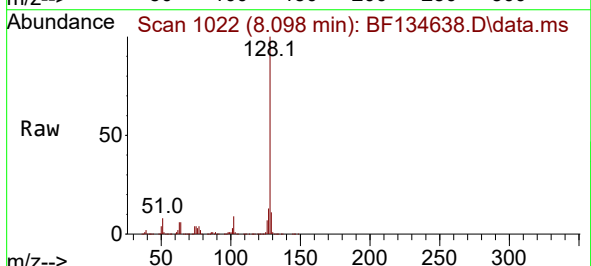
RT: 8.098 min Scan# 1022

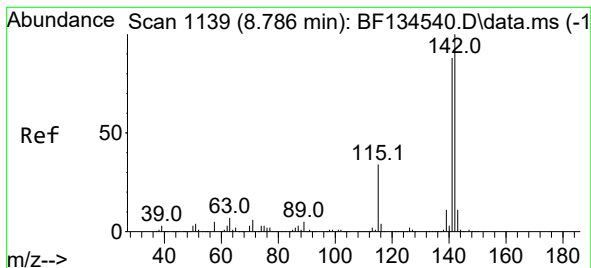
Delta R.T. -0.006 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

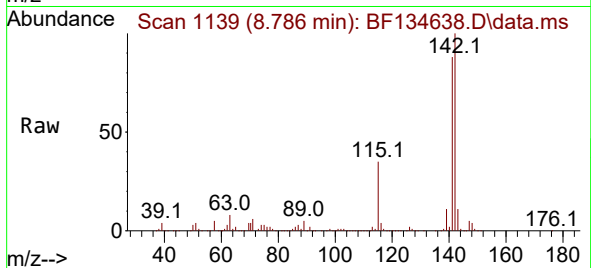
Tgt Ion:	128	Resp:	592225
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.4	12.6
127	13.4	10.7	16.1





#37
2-Methylnaphthalene
Concen: 13.332 ng
RT: 8.786 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

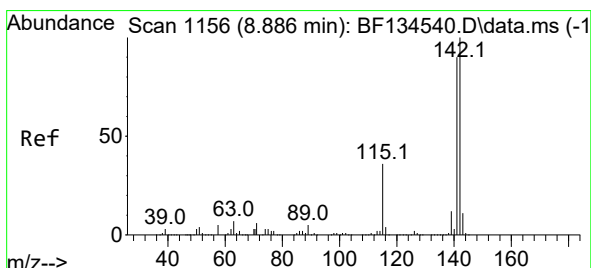
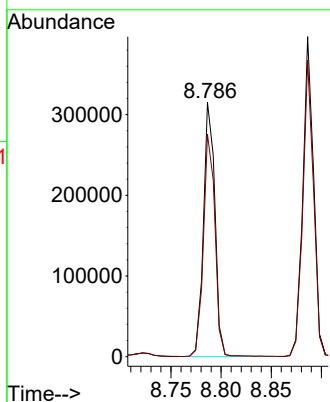
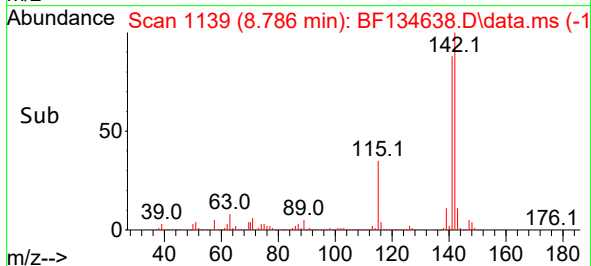
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



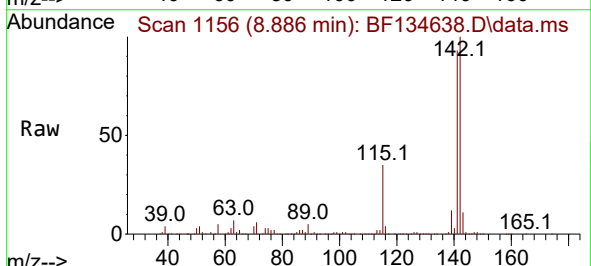
Tgt Ion:142 Resp: 251490
Ion Ratio Lower Upper
142 100
141 87.5 70.8 106.2

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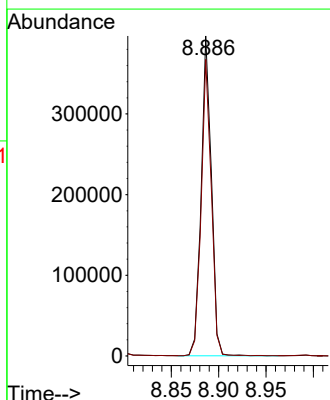
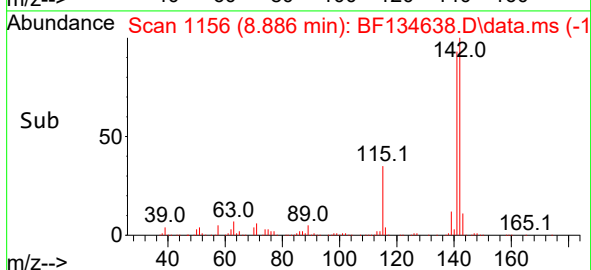
Reviewed By :Yogesh Patel 08/07/2023
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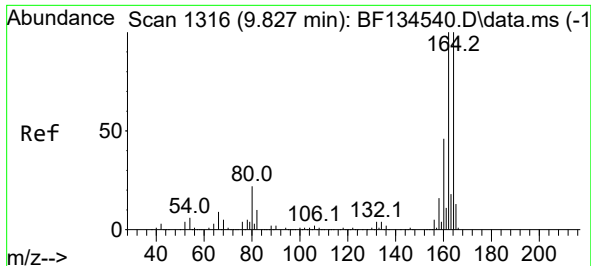


#38
1-Methylnaphthalene
Concen: 16.902 ng
RT: 8.886 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04



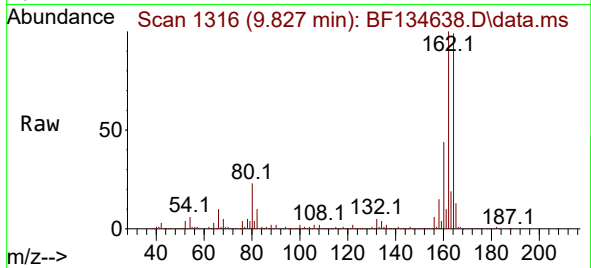
Tgt Ion:142 Resp: 296485
Ion Ratio Lower Upper
142 100
141 92.6 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

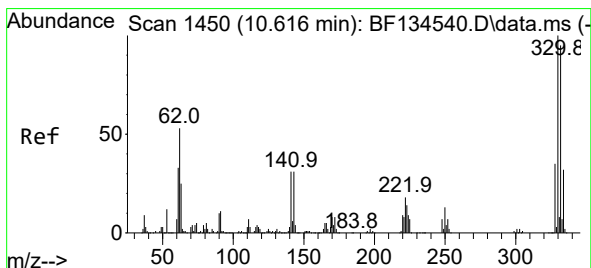
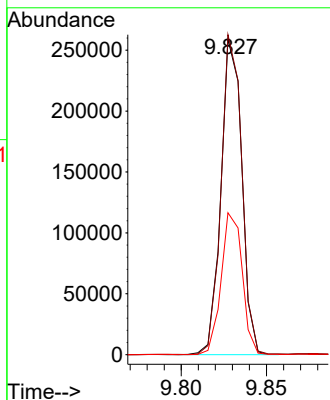
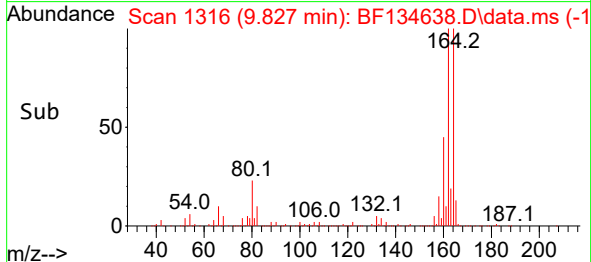
Instrument :
BNA_F
ClientSampleId :
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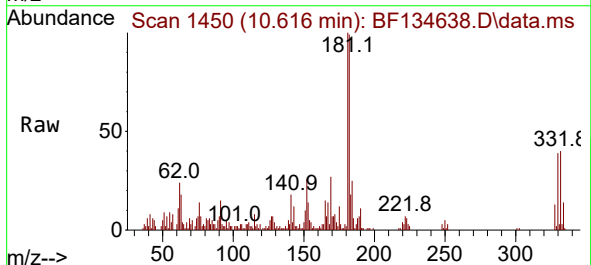
Tgt Ion:164 Resp: 220399
Ion Ratio Lower Upper
164 100
162 101.5 82.6 123.8
160 45.0 37.2 55.8

Manual Integrations
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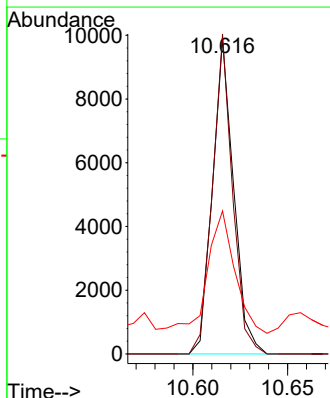
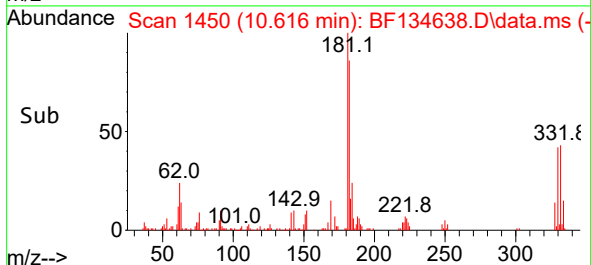
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

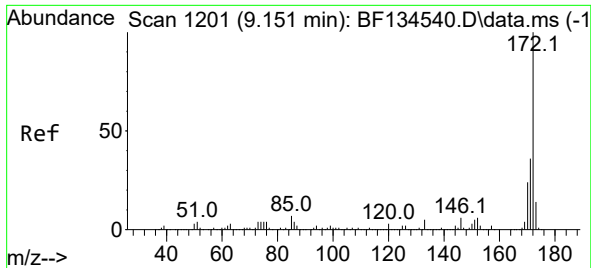


#42
2,4,6-Tribromophenol
Concen: 3.405 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04



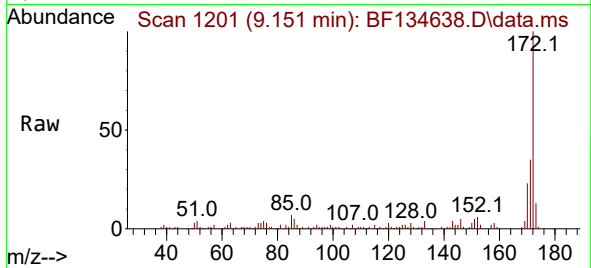
Tgt Ion:330 Resp: 7651
Ion Ratio Lower Upper
330 100
332 96.7 78.8 118.2
141 50.2 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 4.175 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

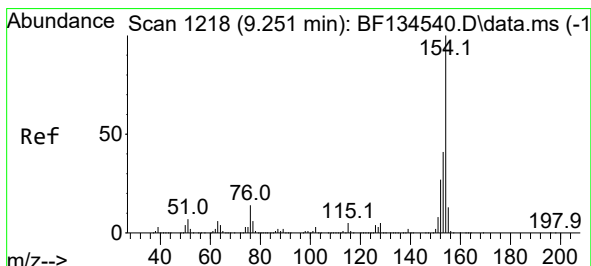
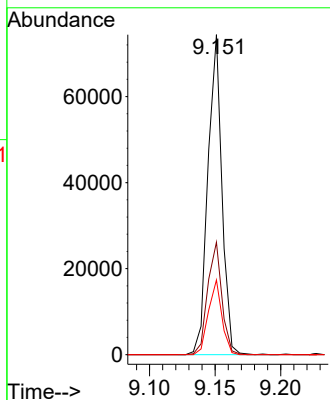
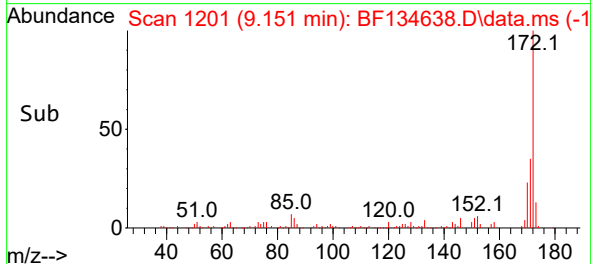
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BUILDING-A-12-(0-5)DL



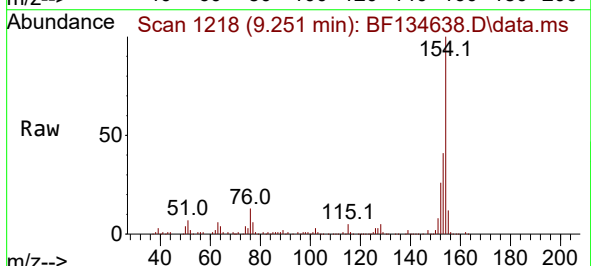
Tgt Ion:172 Resp: 55330
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.4 18.7 28.1

Manual Integrations
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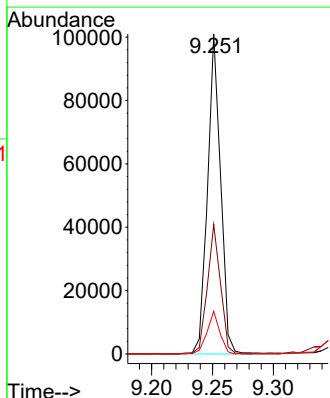
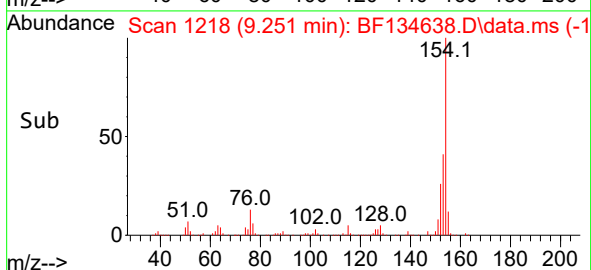
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

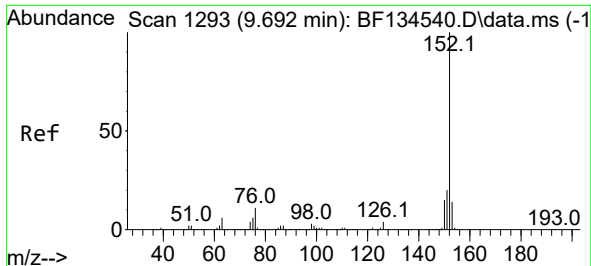


#46
1,1'-Biphenyl
Concen: 4.374 ng
RT: 9.251 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04



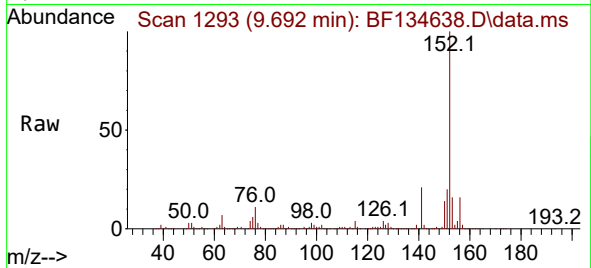
Tgt Ion:154 Resp: 74974
Ion Ratio Lower Upper
154 100
153 40.5 20.8 60.8
76 13.3 0.0 30.2





#49
Acenaphthylene
Concen: 9.189 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

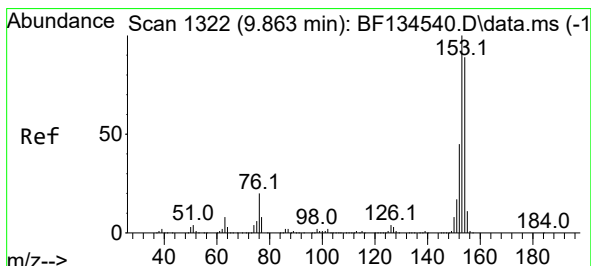
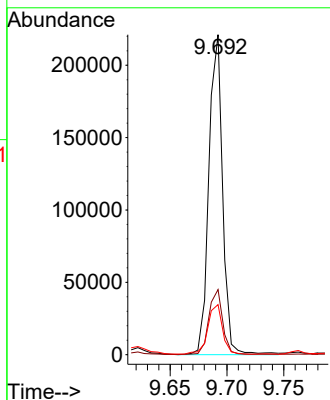
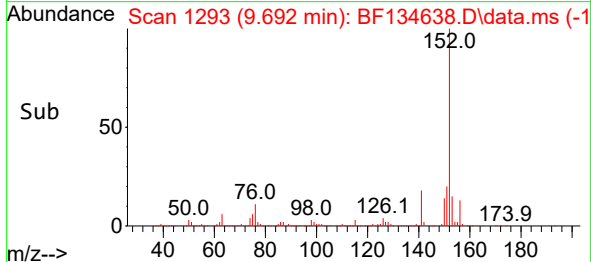
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion:152 Resp: 185502
Ion Ratio Lower Upper
152 100
151 20.3 16.4 24.6
153 15.6 10.9 16.3

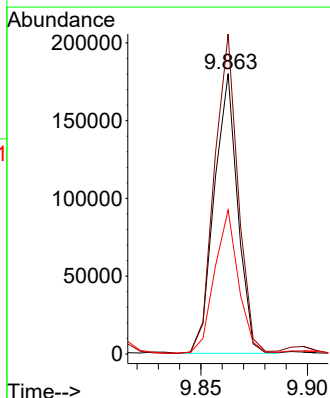
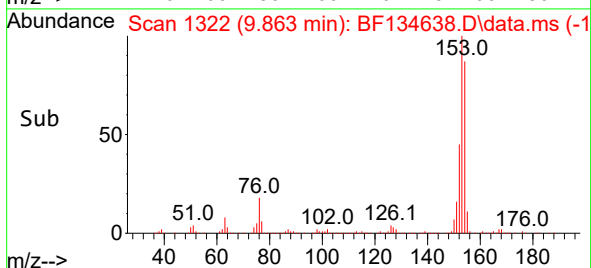
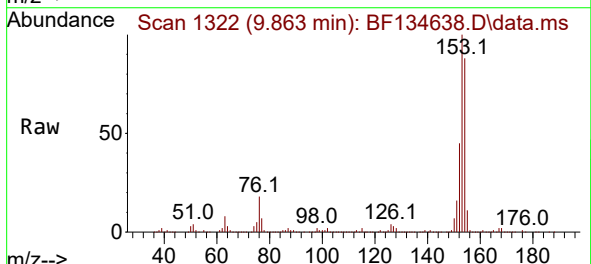
Manual Integrations
APPROVED

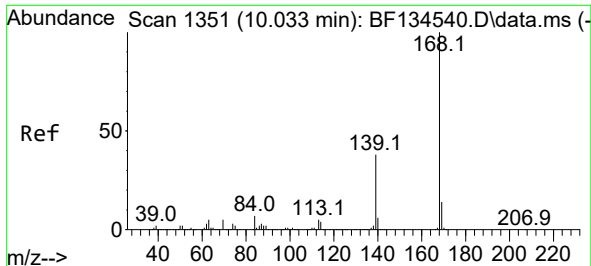
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#52
Acenaphthene
Concen: 10.518 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

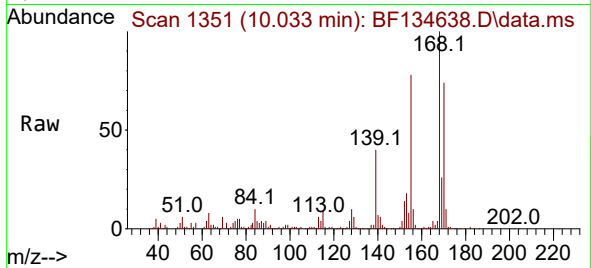
Tgt Ion:154 Resp: 137590
Ion Ratio Lower Upper
154 100
153 114.1 90.0 135.0
152 51.4 42.4 63.6





#55
Dibenzenofuran
Concen: 2.915 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

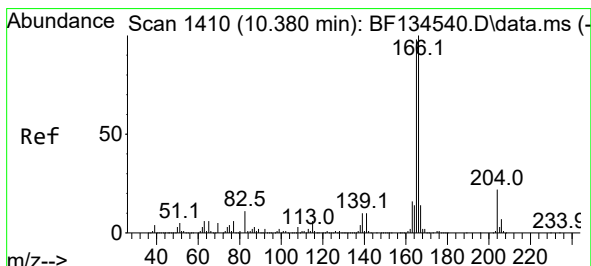
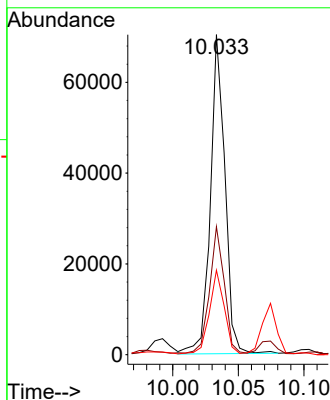
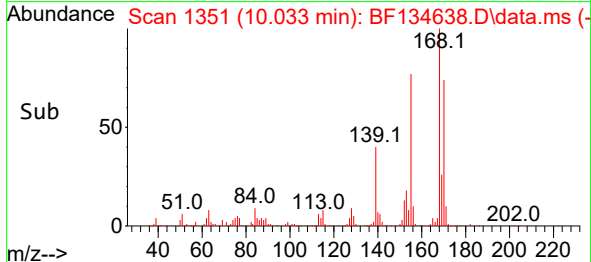
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



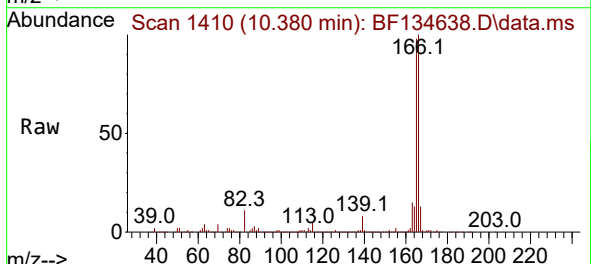
Tgt Ion:168 Resp: 5428
Ion Ratio Lower Upper
168 100
139 40.0 33.4 50.2
169 26.4 10.6 15.8

Manual Integrations
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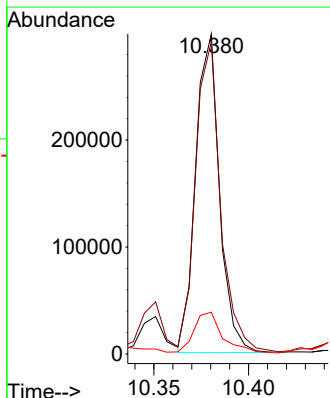
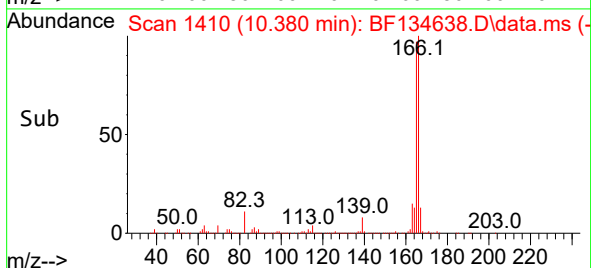
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

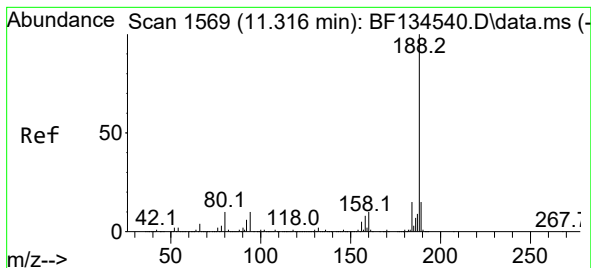


#58
Fluorene
Concen: 19.327 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04



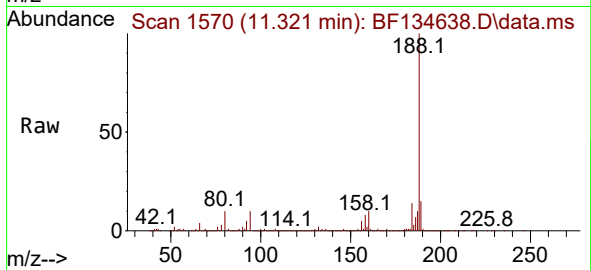
Tgt Ion:166 Resp: 262159
Ion Ratio Lower Upper
166 100
165 97.5 74.5 111.7
167 13.1 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

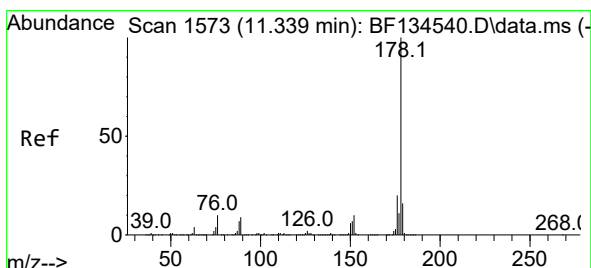
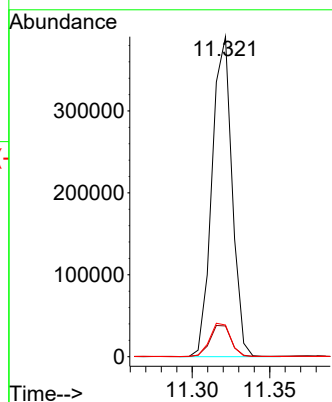
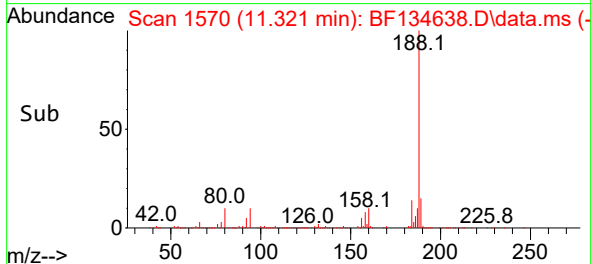
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion:188 Resp: 351797
Ion Ratio Lower Upper
188 100
94 9.6 5.1 7.7
80 9.9 6.6 9.8

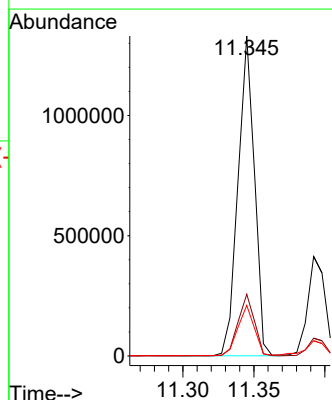
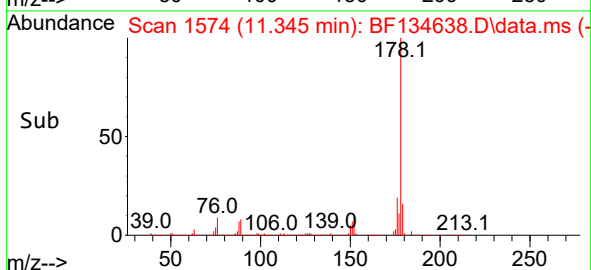
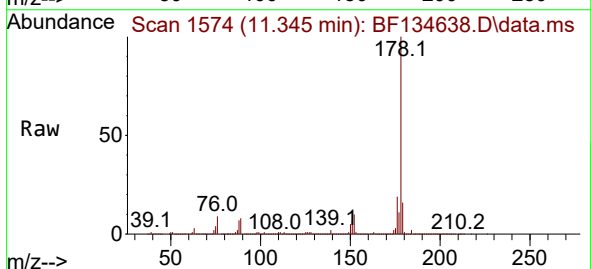
Manual Integrations
APPROVED

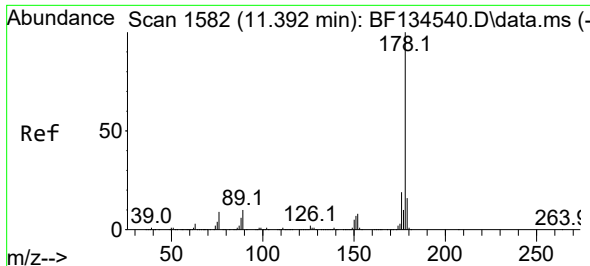
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#71
Phenanthrene
Concen: 57.336 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

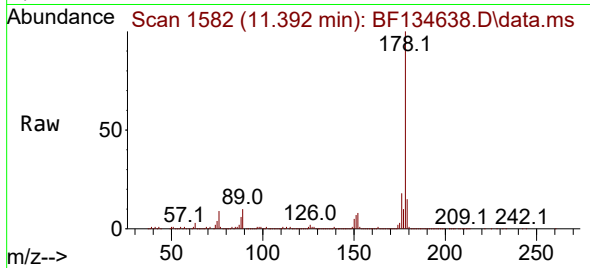
Tgt Ion:178 Resp: 1071381
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 15.8 12.7 19.1





#72
 Anthracene
 Concen: 18.058 ng
 RT: 11.392 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF134638.D
 Acq: 04 Aug 2023 18:04

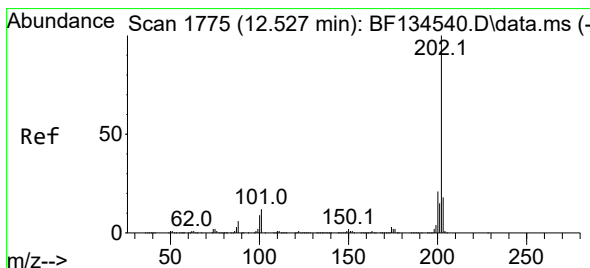
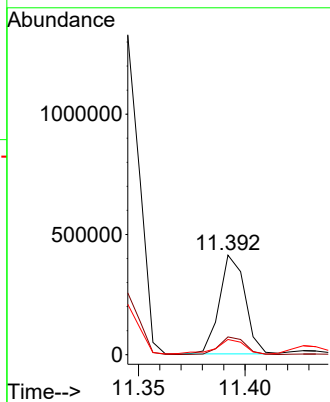
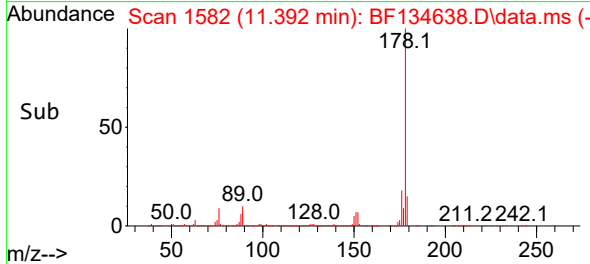
Instrument :
 BNA_F
 ClientSampleId :
 BUILDING-A-12-(0-5)DL



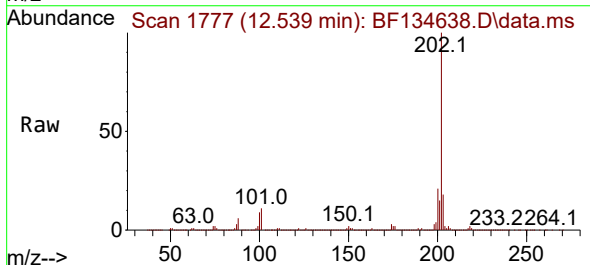
Tgt Ion:178 Resp: 34466
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.6 21.8
 179 15.3 12.3 18.5

Manual Integrations
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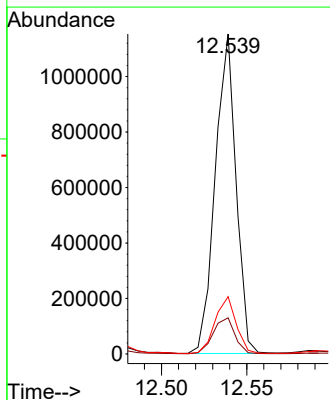
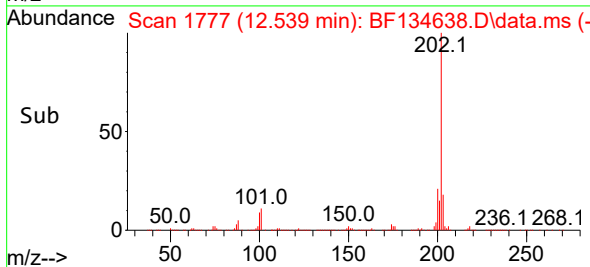
Reviewed By :Yogesh Patel 08/07/2023
 Supervised By :mohammad ahmed 08/07/2023

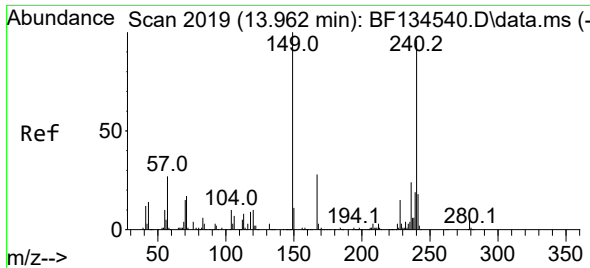


#75
 Fluoranthene
 Concen: 49.491 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.000 min
 Lab File: BF134638.D
 Acq: 04 Aug 2023 18:04



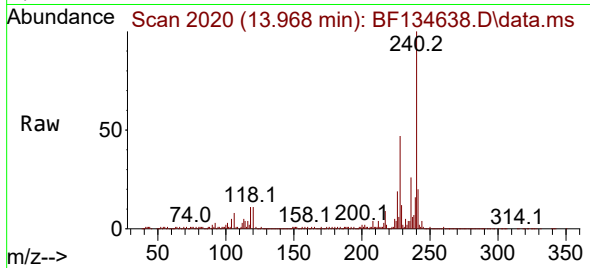
Tgt Ion:202 Resp: 976878
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 28.5
 203 17.9 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

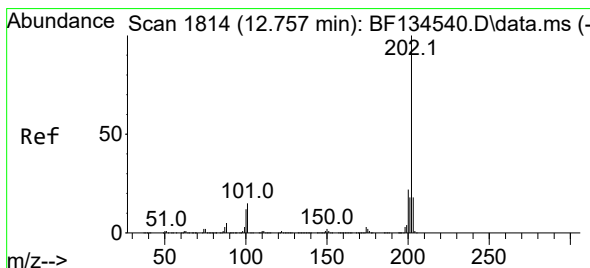
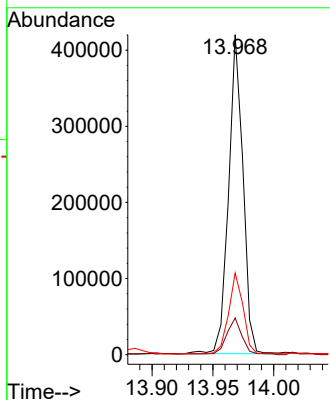
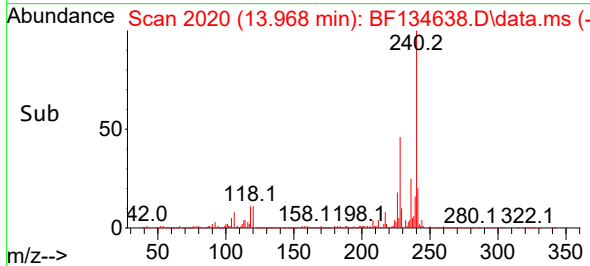
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion:240 Resp: 345080
Ion Ratio Lower Upper
240 100
120 11.5 6.6 10.0
236 25.5 20.2 30.2

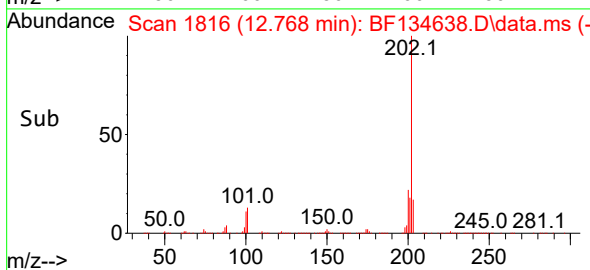
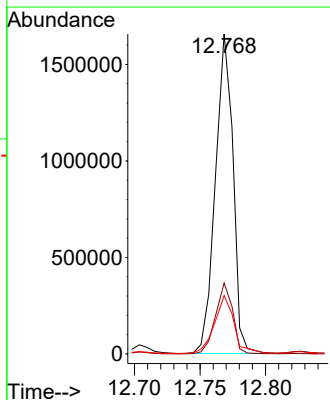
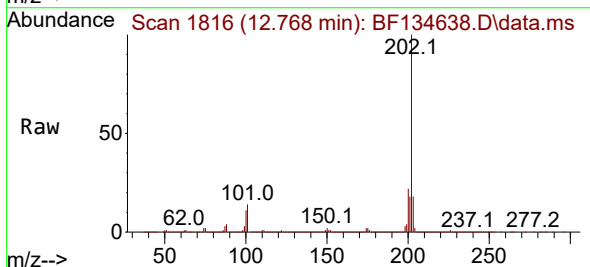
Manual Integrations
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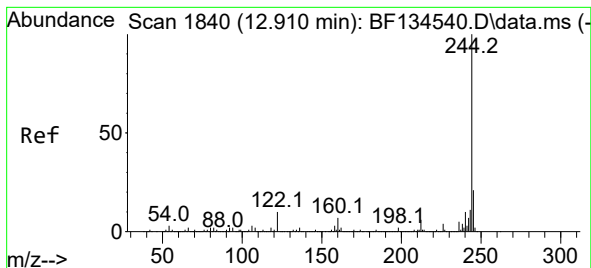
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#78
Pyrene
Concen: 51.666 ng
RT: 12.768 min Scan# 1816
Delta R.T. -0.000 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

Tgt Ion:202 Resp: 1542802
Ion Ratio Lower Upper
202 100
200 22.2 15.8 23.8
203 18.3 13.5 20.3





#79

Terphenyl-d14

Concen: 3.095 ng

RT: 12.910 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

Instrument :

BNA_F

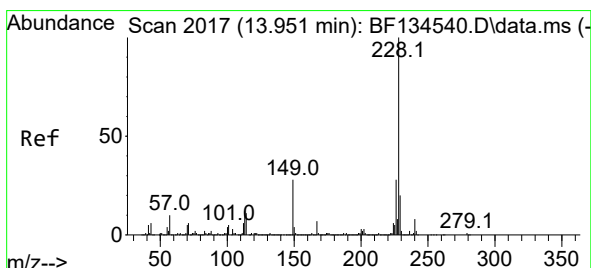
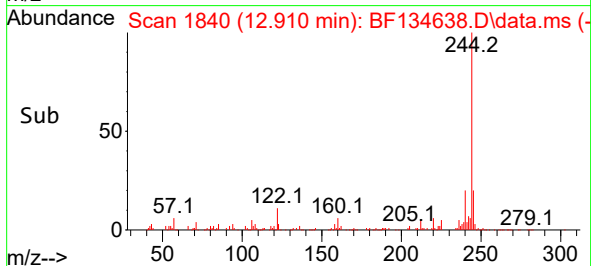
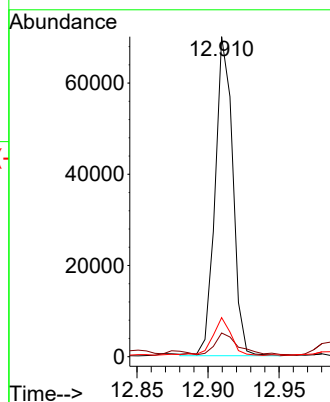
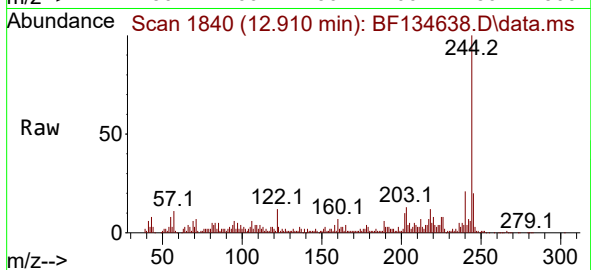
ClientSampleId :

BUILDING-A-12-(0-5)DL

Tgt Ion:244 Resp: 60594
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.6 8.4
 122 12.2 8.0 12.0

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/07/2023
 Supervised By :mohammad ahmed 08/07/2023



#81

Benzo(a)anthracene

Concen: 27.478 ng m

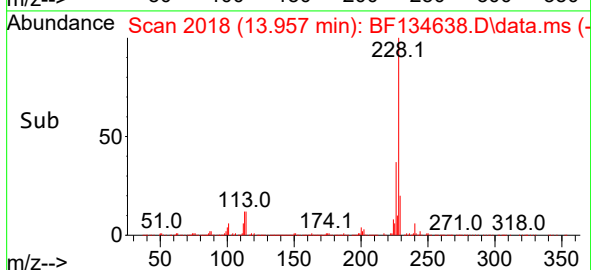
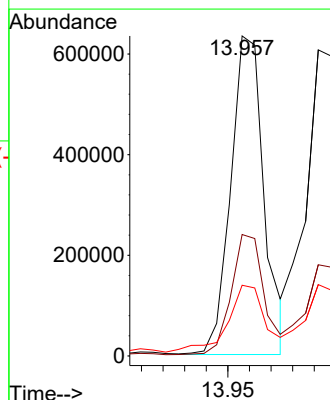
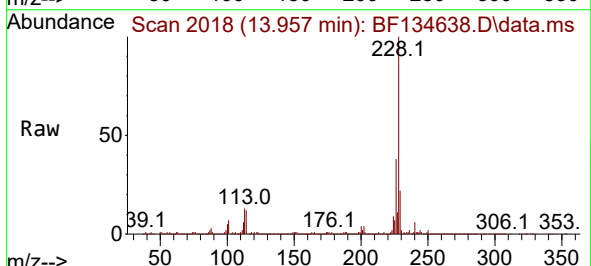
RT: 13.957 min Scan# 2018

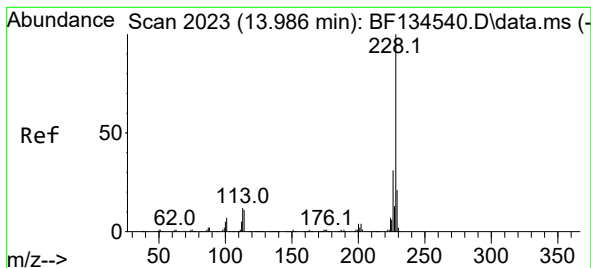
Delta R.T. -0.006 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

Tgt Ion:228 Resp: 678017
 Ion Ratio Lower Upper
 228 100
 226 37.9 22.3 33.5#
 229 22.1 15.8 23.6





#83

Chrysene

Concen: 26.814 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

Instrument :

BNA_F

ClientSampleId :

BUILDING-A-12-(0-5)DL

Tgt Ion:228 Resp: 64462

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

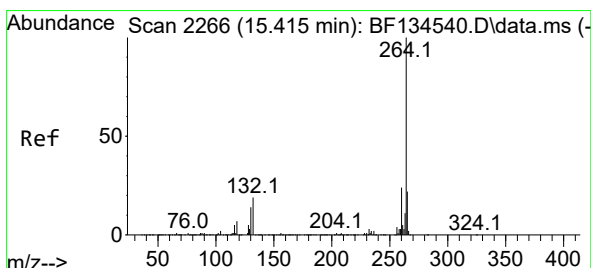
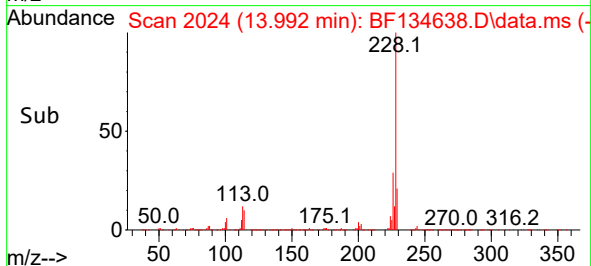
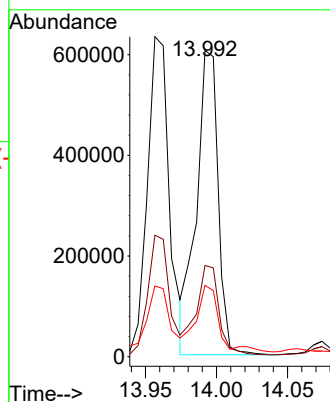
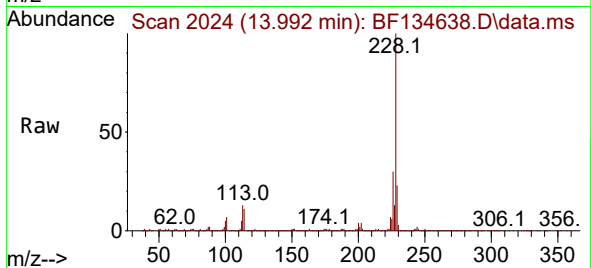
229 23.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2023

Supervised By :mohammad ahmed 08/07/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2269

Delta R.T. -0.006 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

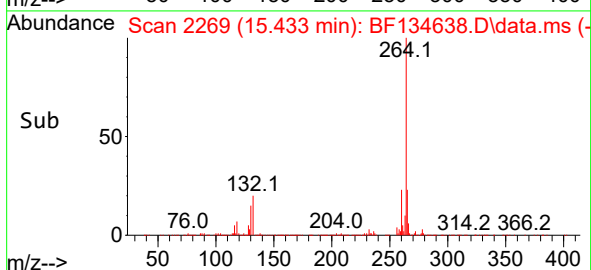
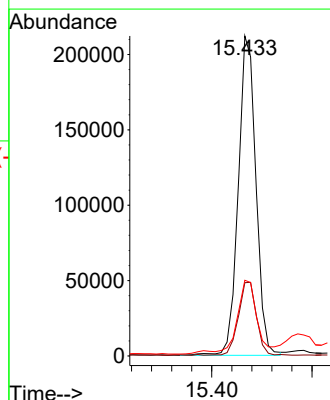
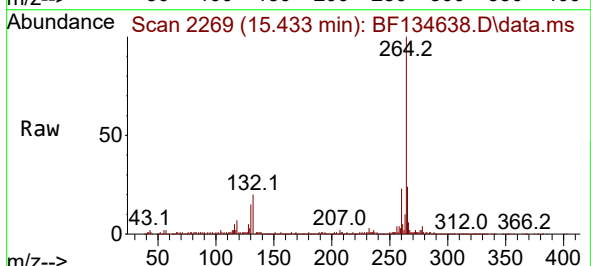
Tgt Ion:264 Resp: 259532

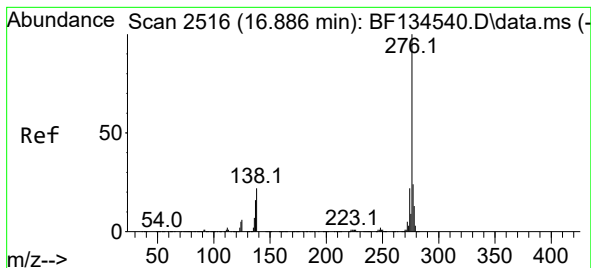
Ion Ratio Lower Upper

264 100

260 22.9 18.4 27.6

265 23.7 15.8 23.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.715 ng

RT: 16.915 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

Instrument :

BNA_F

ClientSampleId :

BUILDING-A-12-(0-5)DL

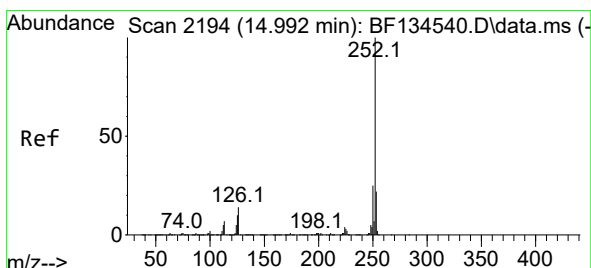
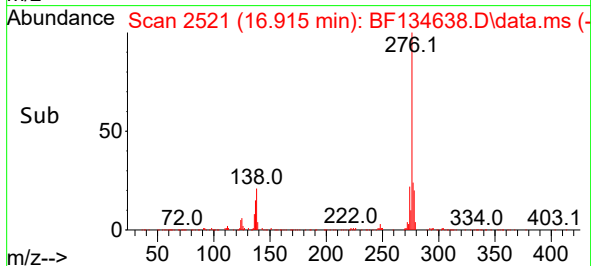
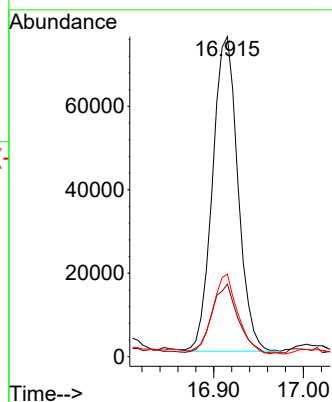
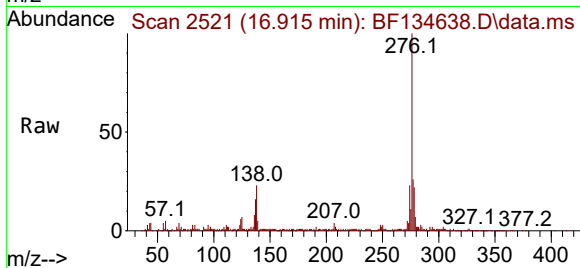
Tgt Ion:276 Resp: 148284
 Ion Ratio Lower Upper
 276 100
 138 23.0 14.2 21.4
 277 25.6 19.9 29.9

Manual Integrations

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Reviewed By :Yogesh Patel 08/07/2023

Supervised By :mohammad ahmed 08/07/2023



#88

Benzo(b)fluoranthene

Concen: 26.449 ng m

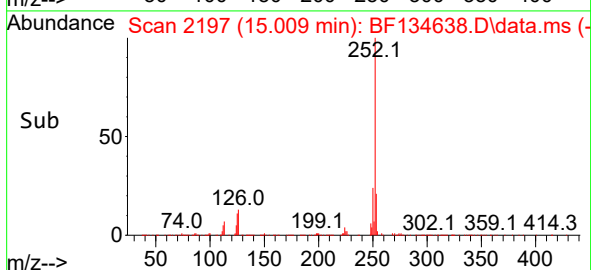
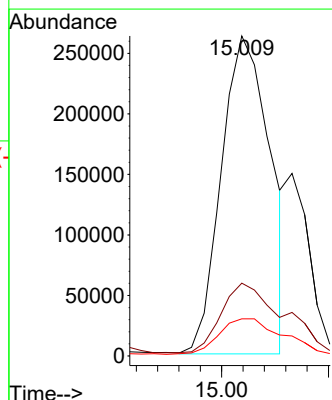
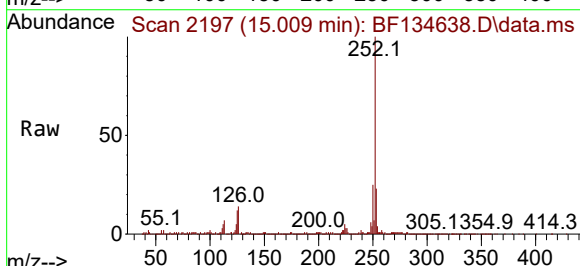
RT: 15.009 min Scan# 2197

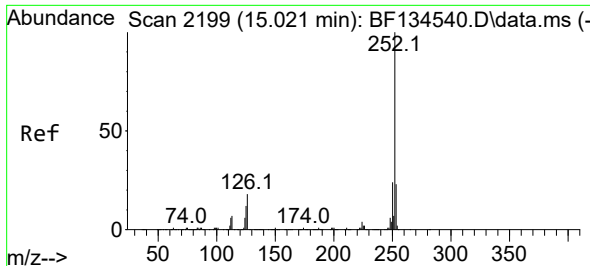
Delta R.T. -0.000 min

Lab File: BF134638.D

Acq: 04 Aug 2023 18:04

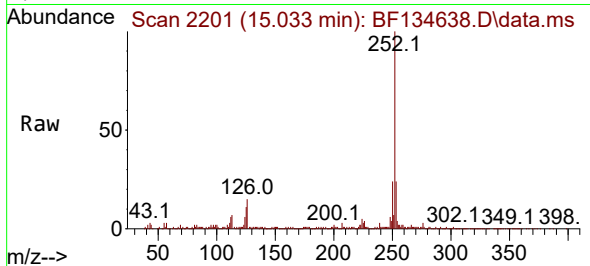
Tgt Ion:252 Resp: 418646
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.3 25.9
 125 11.6 6.0 9.0#





#89
Benzo(k)fluoranthene
Concen: 7.299 ng m
RT: 15.033 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

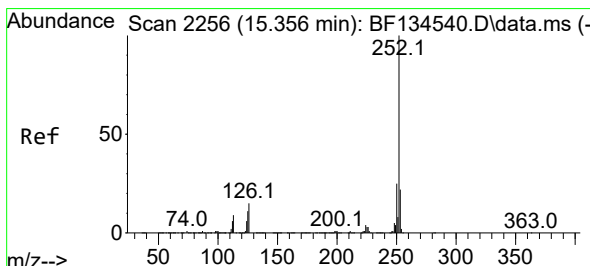
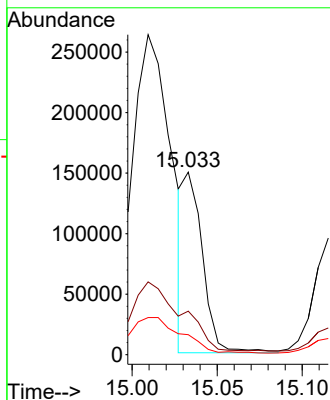
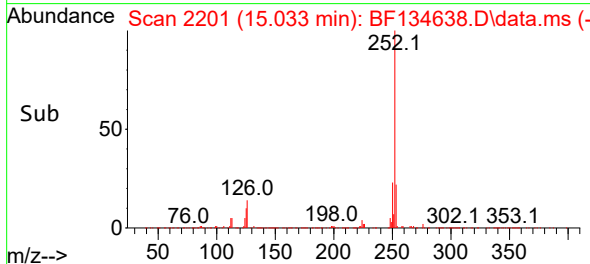
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



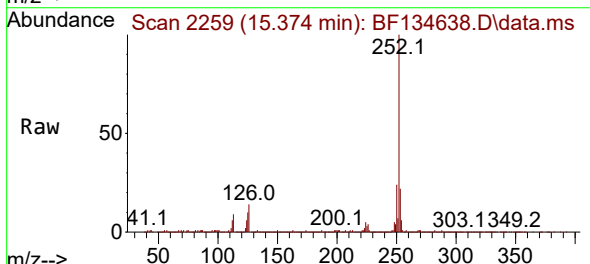
Tgt Ion:252 Resp: 115084
Ion Ratio Lower Upper
252 100
253 23.9 17.9 26.9
125 11.0 6.3 9.5

Manual Integrations
APPROVED

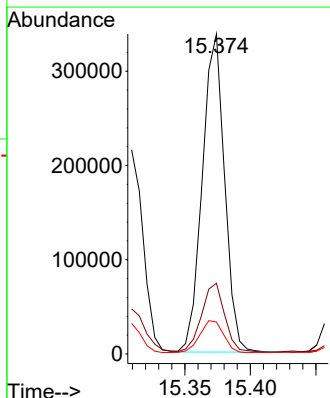
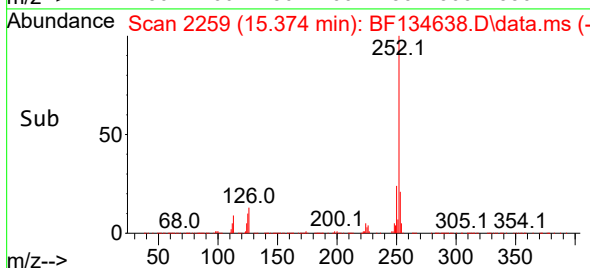
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

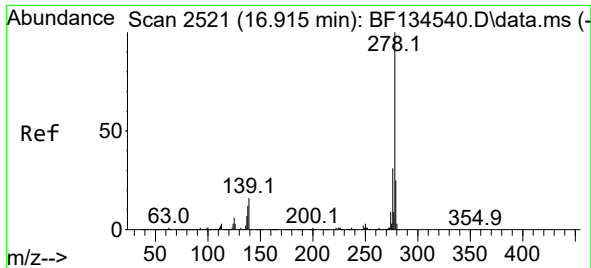


#90
Benzo(a)pyrene
Concen: 27.051 ng
RT: 15.374 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04



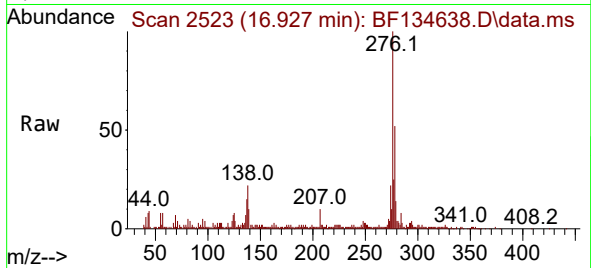
Tgt Ion:252 Resp: 399221
Ion Ratio Lower Upper
252 100
253 22.1 17.0 25.4
125 10.0 6.2 9.4





#91
Dibenzo(a,h)anthracene
Concen: 4.160 ng m
RT: 16.927 min Scan# 2521
Delta R.T. -0.024 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

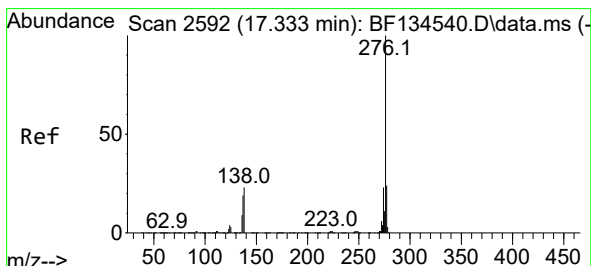
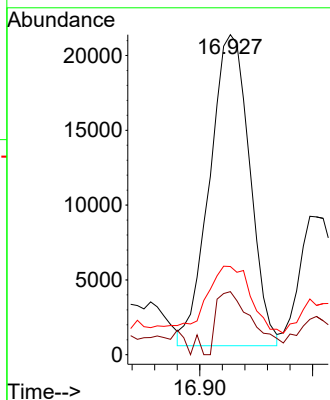
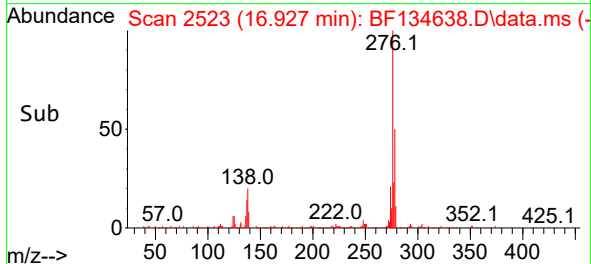
Instrument :
BNA_F
ClientSampleId :
BUILDING-A-12-(0-5)DL



Tgt Ion:278 Resp: 5131
Ion Ratio Lower Upper
278 100
139 19.7 10.0 15.0
279 27.6 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#92
Benzo(g,h,i)perylene
Concen: 13.002 ng
RT: 17.362 min Scan# 2597
Delta R.T. -0.012 min
Lab File: BF134638.D
Acq: 04 Aug 2023 18:04

Tgt Ion:276 Resp: 163602
Ion Ratio Lower Upper
276 100
277 24.1 19.0 28.6
138 23.2 12.2 18.2#

